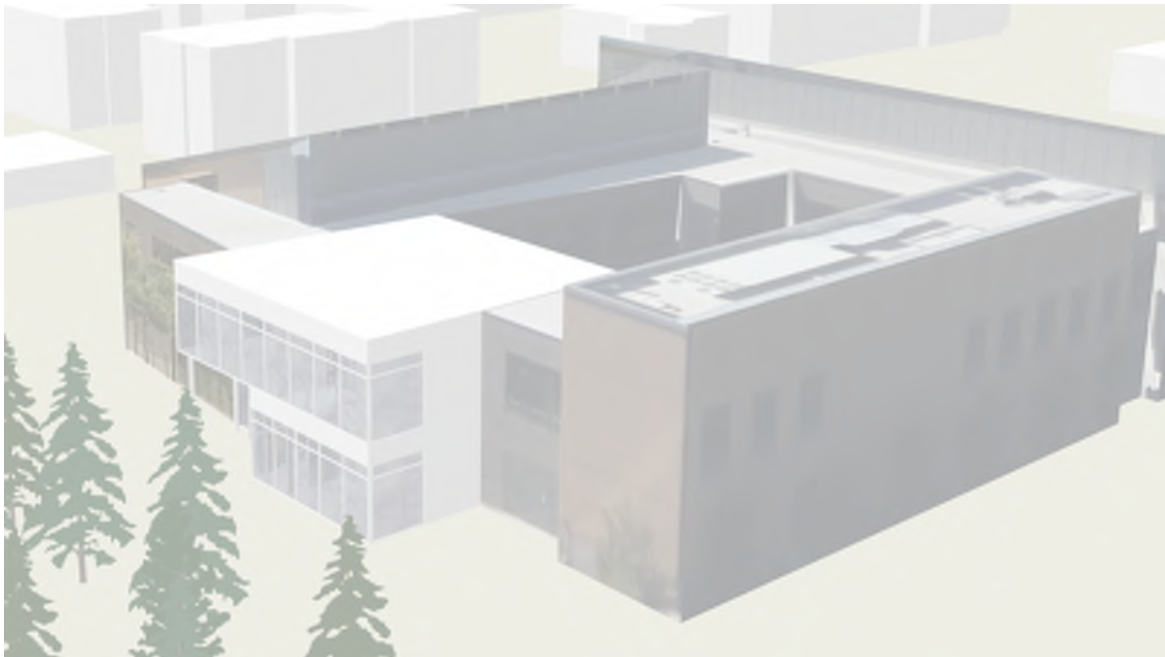




CUPERTINO

**CITY OF CUPERTINO
REQUEST FOR PROPOSALS
OF DESIGN-BUILD ENTITIES
FOR THE
CUPERTINO LIBRARY EXPANSION PROJECT**



RFP Issue Date:

June 19, 2020

Proposal Submittal Deadline:

Wednesday, July 29, 2020 at 5:00 PM

ELECTRONIC SUBMITTAL ONLY

CITY HALL * 10300 TORRE AVENUE

CUPERTINO, CA 95014-3255

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CITY OF CUPERTINO

REQUEST FOR PROPOSALS

FROM

SHORT-LISTED DESIGN-BUILD ENTITIES

FOR THE

CUPERTINO LIBRARY EXPANSION PROJECT

The City of Cupertino (“**City**”) invites each of the short-listed design-build entities (“**DBEs**”) to submit a proposal (“**Proposal**”) in response to this Request for Proposals (“**RFP**”) for design-build delivery of the Cupertino Library Expansion Project (“**Project**”).

1. THE CUPERTINO LIBRARY

Completed in 2004, the Cupertino Library (“**Library**”) is part of the Santa Clara County Library District (“**District**”), and is located at 10800 Torre Avenue, Cupertino, California 95014, as part of the Cupertino Civic Center complex. Additional information about the Library may be found online at: <https://scclld.org/locations/CU/>.

The Library was visited by over 904,000 people in fiscal year 2018/2019. Due to the ongoing popularity of the Library, expansion of the Library has been a goal of the City since 2012. At 54,000 total square feet, the existing Library is the second largest library in the District. It contains over 330,000 volumes and has a circulation of 2.5 million items. However, the Library does not have a dedicated program room and does not currently have enough seating during peak periods.

2. THE PROJECT

A. Summary Description. The Project involves expansion of the existing Library, including demolition of the existing 1,175 square foot single-story Children’s Book Area

and replacing it with a new 5,626 square foot two-story addition that will connect to the existing Library structure. Essential Project elements include:

- creation of a new multi-purpose Program Room with 130-seat minimum audience capacity with presentation space;
- spillover seating;
- flexible space (room can be divided and used for multiple programs simultaneously);
- kitchenette;
- gender neutral restrooms on each floor;
- supplemental storage; and
- janitorial closet.

Additional Project objectives include:

- design and construction of the Project within the City's cost estimate and planned schedule for the Project, as set forth in Sections 4 and 5, respectively, below;
- relatively low life-cycle costs for a period of 15 or more years;
- highly energy efficient and sustainable; and
- highly durable finishes.

The Project will proceed in two phases, a Design Phase and a Construction Phase, each of which will be initiated with a separate Notice to Proceed. The Notice to Proceed with Construction Services will not be issued until the City has approved the construction design documents developed during the Design Phase.

B. The Design-Build Documents. The Project must be designed and built consistent with the design and program requirements developed by EHDD Architecture ("EHDD") for the City pursuant to Public Contract Code section 22164(a), dated June 4, 2020 (the "**Bridging Documents**"), which are included as **Appendix 1** hereto and incorporated herein. Additional information regarding the scope and authority of the Bridging Documents is set forth in the document entitled, **Authority of the Bridging Documents**, included as **Appendix 2** hereto and incorporated herein. A copy of the form for the design-build contract, including the Design-Build Contract, General Conditions, Special

Conditions, and required bond forms (collectively, the “**Design-Build Contract Documents**”), are included as **Appendix 3** hereto and incorporated herein. The Bridging Documents and Design-Build Contract Documents are referenced collectively herein as the “**Design-Build Documents.**” The City will not consider requests to modify the form of the Design-Build Contract, General Conditions, or bond forms. The Project must be designed and constructed in conformance with the Design-Build Documents, and in compliance with all applicable local, state, and federal laws, regulations, rules, codes, ordinances, permits, orders, and the like enacted or imposed by or under the auspices of any governmental entity with jurisdiction over the Project or any portion of the Project (“**Laws**”), including, but not limited to applicable local, state, and federal orders pertaining to the coronavirus pandemic, as further specified in the Special Conditions to the Design-Build Contract Documents.

C. Definitions. All capitalized terms that are used in this RFP that are not otherwise defined herein have the same meanings provided for those terms in Article 1 of the General Conditions.

D. Additional Information.

1. *Record Drawings.* A copy of the record drawings for the current Library building, dated November 29, 2004, are included as **Appendix 4** hereto, and provided for additional reference and background information.

2. *Geotechnical Report.* A copy of the geotechnical report prepared by Treadwell & Rollo dated May 29, 2002 and revised on November 4, 2002 (“**Geotechnical Report**”), is included as **Appendix 5** hereto, and provided for additional reference and background information.

3. *City Website.* Additional information about the Project, may be found on the City’s website at: <https://www.cupertino.org/our-city/departments/public-works/city-construction-projects-capital-improvement-projects/library-expansion-project>.

E. Additional Considerations. Additional considerations for design and construction of the Project include the following:

- a constrained site, impacted parking, and small staging area;
- congested parking lot adjacent to the site;
- continued operation of the Library during construction, as feasible;
- connecting to existing building on two sides and two stories;
- utility relocations;
- temporary relocation of the Story Room during construction;
- seismic bracing of existing structure after demolition and during construction;
- steel structural system with piers or piles required;
- HVAC system must tie in with existing building;
- extensive electrical distribution, greater than code minimum;
- masonry exterior to match existing; and
- high quality windows and doors to match existing.

3. OVERVIEW OF REQUEST FOR PROPOSALS

A. Design-Build Procurement. The City intends to use design-build procurement for the Project, pursuant to California Public Contract Code sections 22160 et seq. The City previously issued a Request for Qualifications (“**RFQ**”) on May 12, 2020. This RFP invites each of the responding DBEs that have been short-listed by the City following the RFQ process pursuant to Public Contract Code section 22164(b) (individually a “**Proposer**,” and collectively, “**Proposers**”), to submit a Proposal for design and construction of the Project in accordance with the requirements of this RFP and the Design-Build Documents. The City will only accept Proposals from the short-listed Proposers, listed as follows, each of whom will be provided with electronic access to this RFP and the appendices hereto:

- Gilbane Building Company with Group 4 Architecture
- Gonsalves & Stronck Construction with Noll & Tam Architects

- Rodan Builders with SVA Architects
- Swinerton with Steinberg Hart

B. “Best Value.” The Design-Build Contract for the Project will be awarded, if at all, on a “best value” basis, as determined by the City, acting in its sole discretion, and as further specified in this RFP, including the Evaluation Factors set forth in Section 10, below. By submitting a Proposal, a Proposer agrees that if it is selected as providing the “best value,” it will enter into the contract with the City based on the Design-Build Contract Documents.

C. Limitations and Reservation of Rights. This RFP is not a formal request for bids nor an offer by the City to contract with a Proposer. The City reserves the right to amend this RFP by addenda, which may include, but is not limited to, changes to the Design-Build Documents or changes to the planned schedule set forth in Section 5, below, including an extension of the deadline for submitting or evaluating the Proposals. The City reserves the right, at all times, acting in its sole discretion, to cancel, postpone or modify the Project or RFP procurement in the City’s best interest. The City reserves the right, at any time, to reject any or all Proposals in whole or in part. Except as specified herein with respect to the stipend, as set forth in subsection 3.G, below, each Proposer is solely responsible for the expenses it incurs to respond to this RFP, including, but not limited to, site investigation. Additional disclaimers and reservations of rights are set forth in Section 13, below.

D. Informational Meeting. The short-listed Proposers are invited to participate in an informational meeting via videoconference (Zoom) with representatives of the City on June 23, 2020, at 1:00 PM for review of the Project and Proposal requirements. Proposers are encouraged to attend. The City may elect to issue an addendum to this RFP following the informational meeting. Login information for the videoconference will be provided to each of the short-listed DBEs.

E. Questions or Objections. Questions regarding this RFP, the Design-Build Documents or objections to the RFP process may only be submitted in writing via email addressed to the City’s CIP Program Manager, Michael Zimmermann, at

michaelz@cupertino.org. All questions or objections must be received by 5:00 PM on July 14, 2020, subject to amendment by addendum. Questions or objections must be specific and must reference the applicable provisions(s) in the RFP by section number. Any questions or objections that are not submitted within the time and manner specified will be deemed waived. Written responses will be provided in addenda to this RFP distributed by email to all short-listed DBEs. The City will not be bound by the oral representations of any City employees, officials, or representatives. Each Proposer is solely responsible for ensuring that it has received and reviewed each addendum before submitting its Proposal.

F. Investigation. Proposers are solely responsible for conducting all appropriate site investigation at their sole cost prior to submitting Proposals. Proposers that wish to undertake any invasive testing or wish to access the existing Library must contact the City in advance to make the necessary arrangements, which may include indemnifying the City against any liability arising from such access and will require compliance with all applicable social distancing protocols in light of the continuing pandemic. Each Proposer should thoroughly review the Design-Build Documents, the Project site, and any reference documents made available by the City.

G. Stipend. Each short-listed Proposer that submits a responsive Proposal, as determined by the City, but that is not selected by the City for award of the Design-Build Contract, will receive a stipend of \$10,000 following award of the Design-Build Contract or termination of the RFP process, whichever occurs first. The purpose of the stipend is to encourage high quality, competitive Proposals, including preliminary design documents. A Proposer will not be eligible for a stipend if it submits a late or nonresponsive Proposal or withdraws from the RFP process. In addition, eligibility for the stipend will be conditioned on execution of the **Stipend Agreement** included in **Appendix 7**.

H. Proposals. The Proposals and attachments thereto, including design or construction ideas and concepts, will become the property of the City upon submission and City reserves the right to incorporate any such ideas and concepts in the final construction documents for the Project.

4. ESTIMATED COST

The City estimates that the Project will cost \$6,500,000 to design and construct.

5. PLANNED SCHEDULE

The following schedule is provided for general planning, including tentative dates (denoted with an asterisk [*]), based on currently available information. All dates and durations are subject to revision as the procurement process and Project proceed. All times are Pacific Time.

ACTIVITY	DATE	TIME
RFP distributed to shortlisted DBEs	6/19/2020	
Informational Meeting	6/23/2020	TBD
Deadline for RFP questions/objections	7/14/2020	5:00 PM
Proposal Submittal Deadline	7/29/2020	5:00 PM
Preliminary Review of Proposals by Evaluation Panel	7/30-8/2/20	
Private Presentation of Responsive Proposals	8/3-5/2020*	TBD
Private Discussions and/or Negotiations (City option)	8/6-10/2020*	
Notice of Intent to Award issued	8/10/2020*	
Selected Proposer executes Contract	8/14/2020	
City Council award of Design-Build Contract	8/18/2020	
DBE Submits Insurance Documentation	By 8/25/20	
Notice to Proceed with Design Services (anticipated)	8/31/2020*	
Design Development Phase Submittals (desirable by)	10/12/2020*	
Demolition Constr. Documents Submittal (desirable by)	10/13/2020*	
DBE Submittal for Demolition Permit (desirable by)	10/13/2020*	
Construction Documents Phase Submittals (desirable by)	1/11/2021*	
DBE Submittal for Construction Permit (desirable by)	1/11/2021*	
Demolition Begins(desirable by)	2/9/2021*	
Certificate of Occupancy issued	12/21/2021	
Library FF&E Move-in Begins	12/21/2021*	
Final Completion	12/27/2021	

6. LABOR AND PREVAILING WAGE REQUIREMENTS

A. Prevailing Wage Requirements. All contractors and subcontractors performing work on the Project must be registered with the Department of Industrial Relations (“DIR”) to perform public construction. Construction of the Project will be subject to prevailing wage requirements for each craft, classification or type of worker needed to perform the work, including employer payments for health and welfare, pension, vacation, apprenticeship and similar purposes. These prevailing rates are available online at <http://www.dir.ca.gov/DLSR> and on file at the City’s offices. DBE and each contractor or subcontractor performing work on the Project which is subject to prevailing wage requirements (as set forth in Labor Code section 1720 et seq.) must pay no less than the specified rates to all workers employed to provide such work for the Project. The schedule of per diem wages is based upon a working day of eight hours. The rate for holiday and overtime work must be at least time and one-half. The Design-Build Contract will be subject to compliance monitoring and enforcement by the DIR pursuant to Labor Code section 1771.4. Detailed prevailing wage requirements are included in the Design-Build Contract Documents.

B. Skilled and Trained Workforce. The selected DBE must ensure that the general contractor and subcontractors at every tier will use a skilled and trained workforce to perform all work on the Project that falls within an apprenticeable occupation in the building and construction trades, in accordance with Public Contract Code section 2600 et seq.

7. BONDS AND INSURANCE

Pursuant to Public Contract Code section 22165, the DBE will be required to provide a payment bond and a performance bond, each in the amount of 100% of the Construction Services cost. Bond requirements are further specified in Article 4 of the General Conditions, and the DBE must use the bond forms provided with the Design-Build Contract Documents. The DBE or its Design Professional(s) will also be required to provide professional liability (errors and omissions) insurance for the Design Services for the Project as further specified in the Design-Build Contract Documents.

8. PROPOSAL CONTENTS

Each Proposal must be submitted in compliance with the requirements of this RFP. The City may, acting in its sole discretion, elect to reject any Proposal that it determines to be nonresponsive. The City also reserves the right, but not the obligation, to waive any immaterial irregularities. Each Proposal is limited to forty (40) pages. Clarity and brevity are preferable to volume. Each Proposal must contain the following, organized as Parts A through K, with *no additional material* (e.g., generic marketing brochures), in order to ensure a fair, competitive process:

A. Cover Letter. Part A of the Proposal must be a cover letter containing a summary of the Proposal, and binding confirmation that the Proposer certifies and agrees to the terms and conditions set forth in this RFP, including, but not limited to, the certifications set forth in subsection 9.C below. The cover letter, as well as each of the separate forms that must be executed and included with the Proposal, as further specified below, must be executed by an individual or individuals who are authorized to bind the Proposer to the terms of the Proposal, and the individual(s) signing on behalf of the Proposer must be clearly identified by name and title. If the Proposer is a corporation, signatures from two officers of the corporation are required as further specified in California Corporation Code section 313.

B. Price Proposal Form. Part B must include the completed and executed **Price Proposal Form**, which is included in **Appendix 6** hereto. Complete and execute the Price Proposal Form as indicated, consistent with the execution requirements set forth in subsection 8.A, above.

C. Technical Design Expertise. Part C must provide information regarding the technical design expertise of the Proposer and members of the Proposer's Design-Build Team as it relates to this Project, including, but not limited to, the Design Professional(s) and their subconsultants. Describe how any in-house expertise within each member of the DBE Team providing Design Services may be implemented on this Project. Submit a table showing the planned staffing assigned to the Design Phase, including a list of all

individuals assigned to perform Design Services directly on the Project with each individual's name, job classification, existing employees or employees to be hired or non-employees (independent consultants), the hours each individual is assigned to the Project during the Design Phase, and total hours expected to be expended during the Design Phase. Identify any proposed changes to Proposer's previously submitted Statement of Qualifications ("**SOQ**"), including, but not limited to, any proposed changes to proposed DBE Team members and key personnel. *Note: The City reserves the right to reject any proposed substitutions of team members, subcontractors, or key personnel which were listed in the SOQ, including the right to disqualify any short-listed Proposer for material changes to its SOQ in this regard which are unacceptable to the City.*

D. Construction Expertise. Part D must provide information regarding the construction expertise of the Proposer and members of the Proposer's Design-Build Team as it relates to this Project, including, but not limited to, the general contractor; the electrical, mechanical, and plumbing subcontractors; and any other subcontractors that the Proposer intends to use for the Project. Describe how any in-house expertise within each member of the DBE Team providing Construction Services may be implemented on this Project. Submit a table showing the planned staffing assigned to the site management during the Construction Phase, including a list of all individuals assigned to perform work directly on the Project with each individual's name, job classification, existing employees or employees to be hired or non-employees (independent consultants), the hours each individual is assigned to the Project during the Construction Phase, and the total hours expected to be expended during the Construction Phase. Identify any proposed changes to Proposer's previously submitted SOQ, including, but not limited to, any proposed changes to proposed DBE Team members and key personnel. *Note: The City reserves the right to reject any proposed substitutions of team members, subcontractors, or key personnel which were listed in the SOQ, including the right to disqualify any short-listed Proposer for material changes to its SOQ in this regard which are unacceptable to the City.*

E. Schedule. Part E must include a realistic and achievable proposed schedule for design (including design review by the City and Fire Marshal), permitting, and construction of the Project, including the proposed schedule for issuance of occupancy permits. The schedule should be accompanied by a summary narrative that explains the Proposer's approach to timely delivery of the Project. The schedule must take into

consideration anticipated weather days; time for City review of submittals (including time for resubmission) during the Design Phase and the Construction Phase; lead times for ordering materials and equipment; and the planned date for Final Completion (as defined in Article 1 of the General Conditions in the Design-Build Contract Documents) by the date specified in Section 5, above. Identify any recommendations to ensure timely or early completion of the Project, if any, including any changes to sequencing or durations reflected in the planned schedule provided in Section 5, above. Identify any variations from the City's planned schedule provided in Section 5, above.

F. Design Approach. Part F must describe the Proposer's planned approach to design of the Project, consistent with the Bridging Documents.

1. Summarize the proposed design approach, attaching preliminary design documents depicting the overall design concept in a form the best conveys Proposer's design ideas (e.g. diagrams, floor plans, elevations, sections, details, site improvements, landscaping, mechanical, electrical, and/or concept material).
2. Describe how the design approach will implement the program requirements and performance criteria set forth in the Bridging Documents.
3. Describe how the design approach will exceed the program requirements and performance criteria set forth in the Bridging Documents, including, but not limited to, approaches to reducing annual operating costs and any value-added enhancements, including, but not limited to, green building strategies.
4. Describe any proposed value engineering modifications to the Bridging Documents that are recommended for construction cost savings, operation costs and efficiency, energy savings, or improving life-cycle costs.

G. Life-Cycle Costs. Part G must describe the anticipated life-cycle costs of the proposed design over 15 years or more, with a life-cycle cost analysis ("LCCA") to address anticipated maintenance, service, utilities, and system/component replacement costs for the following: energy systems, mechanical systems, electrical systems, structural systems, building envelope, and site improvements.

H. Construction Approach. Part H must describe the Proposer’s approach to ensuring safe, on-time and efficient construction in compliance with the Design-Build Documents, the planned schedule, and applicable Laws. Include a work plan that generally addresses, at a minimum, the following elements: the overall management plan; quality assurance and quality control plan; subcontractor qualification criteria and standards; integration and coordination of design and construction; City reviews; jurisdictional approvals; cost control plan; packaging and phasing, if any; safety plan; preliminary construction logistics plan, shown in progressive phases, indicating locations proposed for trailers, fences, storage areas, etc.; commissioning plan (the City will hire a third party to commission the building); and measures to mitigate unforeseen conditions (e.g. level of manpower resources that Proposer will apply in the first three months following the Notice to Proceed with Design Services to mitigate unforeseen conditions; assurance that scoping documents and existing conditions are fully examined, understood, and coordinated with design efforts; satisfying jurisdictional requirements for the Project).

I. Stipend Agreement. Part I must include the completed and executed **Stipend Agreement**, which is included in **Appendix 7** hereto. Complete and execute the Stipend Agreement as indicated, consistent with the execution requirements set forth in subsection 8.A, above.

J. Non-Collusion Declaration. Part J must include the completed and executed **Non-Collusion Declaration**, which is included in **Appendix 8** hereto. Complete and execute the Non-Collusion Declaration as indicated, consistent with the execution requirements set forth in subsection 8.A, above.

K. Exceptions. Part K must specifically identify and explain any exceptions, if any, to the Bridging Documents. State if no exceptions are taken. *Note: The City reserves the right to reject any exceptions that the City determines are not in the City’s best interest or to reject a Proposal as non-responsive based on exceptions that are unacceptable to the City as inconsistent with the Project objectives as set forth in the Bridging Documents and expressed herein.*

9. PROPOSAL SUBMISSION

A. Submittal Instructions. Proposals must be received by the City no later than 5:00 PM on July 29, 2020, subject to amendment via addendum (“**Proposal Submittal Deadline**”). Each responding DBE must upload an electronic copy of its Proposal and attachments (in Adobe PDF format, accompanied by editable native format copy of any spreadsheets in the PDF) via the City’s online portal for its Department of Public Works in the “Business Opportunities” portion of the City’s website at:

<https://apps.cupertino.org/bidmanagement/index.aspx>

Late submittals may be disregarded as nonresponsive. Submitting an electronic document via the portal may take more time than anticipated depending on the file size. Please allow adequate time to complete the online submission before the Proposal Submittal Deadline. Proposal submissions which are in progress at the time of the Proposal Submittal Deadline will be automatically rejected by the system, which will not allow any submissions following the Proposal Submittal Deadline. Neither paper copies nor data storage devices (e.g., thumb drives) will be accepted. Any request to withdraw a submitted Proposal must be submitted via email addressed to the City’s CIP Program Manager, Michael Zimmermann, at michaelz@cupertino.org, before the Proposal Submittal Deadline.

B. Public Records Exceptions and Responsibility. If a Proposer believes that any portion(s) of its Proposal are exempt from disclosure under the California Public Records Act (Govt. Code section 6250) (the “CPRA”), it is the Proposer’s responsibility to (1) identify the portion(s) that it believes to be exempt from disclosure, clearly and with specificity; (2) for each such portion, identify the applicable exemption in the CPRA; and (3) clearly state the factual basis for applying the exemption as specified. By submitting an Proposal, Proposer agrees that it is Proposer’s sole responsibility to respond to any legal challenge for disclosure of its Proposal in whole or in part, and DBE agrees that it will indemnify, defend, and hold City harmless against any such CPRA challenge with respect to the contents of its Proposal.

C. Proposer Certifications. By submitting a Proposal, each Proposer further certifies and agrees to each of the following:

1. ***Statements and Representations.*** DBE certifies that all statements and representations made in its Proposal, or incorporated by reference, are true, correct, and materially complete.
2. ***Proposal.*** DBE agrees that its Proposal will remain valid for at least 90 days following the Proposal Submittal Deadline.
3. ***Design Standards.*** Except as expressly and clearly specified in its Proposal, DBE certifies that its proposed design will meet or exceed the minimum standards and performance criteria set forth in the Bridging Documents.
4. ***Planned Project Schedule.*** DBE certifies its ability and intent to meet the Project schedule submitted with its Proposal, consistent with the scheduling requirements and milestones set forth in the Design-Build Documents.
5. ***Qualifications.*** DBE certifies that all information that it submitted to the City in its SOQ remains true, complete, and correct unless otherwise expressly and clearly stated in its Proposal.
6. ***Financial Ability.*** DBE certifies that it is not aware of any facts that would materially impair its financial ability to perform the Services for the Project and that it has sufficient liquid assets to pay its debts as and when they fall due.
7. ***Design-Build Documents.*** DBE certifies that it fully understands and has no questions regarding any of the Bridging Documents, and if selected by the City for the Project, agrees to execute the Design-Build Contract based on the form provided with the Design-Build Contract Documents, without exceptions.
8. ***Licenses.*** DBE certifies that for the duration of the procurement process, it will possess and maintain in good standing all licenses that it is required to hold under applicable Laws in order to perform Services for the Project.

9. ***Conflict of Interest.*** DBE, including any employees of DBE, any member of the design-build team, or any other person relative to the services to be provided for the Project, certifies that it does not have a prohibited conflict of interest, as further set forth in Section 7 of the RFQ, and agrees to disclose to the City any actual, apparent, direct or indirect, or potential conflicts of interest that may exist with respect to DBE, any employees of DBE, any member of the design-build team, or any other person relative to the services to be provided for the Project, as required by Section 7 of the RFQ.

10. ***Non-Discrimination.*** DBE certifies that it will not discriminate in its hiring or employment practices because of age, sex, race, color, ancestry, national origin, religious creed, physical handicap, medical condition, marital status, or sexual orientation, in accordance with section 12940 of the California Government Code, and that it will comply with all anti-discrimination Laws, including, but not limited to, the California Fair Employment and Housing Act (Gov. Code § 12900 et seq.).

11. ***Iran Contracting Act.*** DBE certifies it is not identified on a list created pursuant to subdivision (b) of Public Contract Code section 2203, under the Iran Contracting Act of 2010.

12. ***Immigration Reform and Control Act.*** DBE certifies that it is in full compliance with the provisions of the Immigration Reform and Control Act of 1986, as well as any similar provision of applicable Laws setting forth proscriptions or penalties relating to the employment or hiring of undocumented aliens.

10. EVALUATION OF PROPOSALS

A. Evaluation Panel. The Proposals will be reviewed and evaluated by a panel including City staff and its construction management consultant (“**Evaluation Panel**”). The Evaluation Panel will have the option of consulting with a separate Advisory Panel that will include EHDD and City representatives with specialized knowledge of the Project needs and requirements. The Evaluation Panel may consult with the Advisory Panel on an as-needed basis with respect to technical issues, including interpretation of the Design-Build Documents.

B. Review and Evaluation. Proposals will be reviewed based on factors set forth in subsection 10.C, below. Pursuant to Public Contract Code Section 22164(d), the City reserves the right to request Proposal revisions and to hold discussions and negotiations with responsive Proposers. The City reserves the right, but assumes no obligation, to request clarifying information from any DBE following submission of a Proposal if it determines that further clarification is necessary to evaluate the Proposal. When the evaluation process is completed, including the private meetings referenced in subsection 10.D, below, the Proposals will be ranked based on total scores to identify the Proposal that provides the best value to the City. The Proposal with the highest score at the conclusion of the review and evaluation process will be recommended for award of the Design-Build Contract.

C. Evaluation Factors. The significant factors that the City will consider in evaluating Proposals, and the approach to scoring each factor, are as follows (collectively, the “**Evaluation Factors**”):

1. *Price* (0-50 points): The City’s preference is to award the Design-Build Contract for the Project, if at all, to a Proposer who can promise timely design-build delivery of the Project pursuant to the planned Schedule in Section 5, within the City’s cost estimate, as set forth in Section 4, and meeting or exceeding the minimum requirements, including performance criteria, set forth in the RFP and Bridging Documents. However, the City may be willing to consider some reductions in those minimum requirements in order to achieve cost savings for the public. Accordingly, the Evaluation Panel will preliminarily rank Proposals based on Price Proposal A submissions, in the manner set forth below, but the City reserves the right to re-evaluate the Proposals based on Price Proposal B submissions, in

the manner set forth below, if one or more of the Price Proposal A submissions exceeds the City's Project estimate of \$6,500,000.

- Price Proposal A (0-50 points): The lowest price submitted for Price Proposal A will be scored at 50 points and each higher Price Proposal A will be scored at a proportionately lower score. The lower the price, the higher the score. In the case of a tie for the Total Contract Price, the Proposal with the lowest price for Construction Services will be given the higher score.
 - Price Proposal B (0-25 points): If one or more of the Price Proposal A submissions exceeds the City's Project estimate of \$6,500,000, the Price Proposal B submissions will be considered and scored as follows: (1) up to 10 points for providing the lowest price, which each higher price scored proportionately lower, and (2) up to 15 points for providing the best value to the City in terms of preserving the overall Project objectives, including aesthetic appearance, functionality, quality, life-cycle costs, and timely completion.
2. *Technical Design Expertise* (0-15 points): The Evaluation Panel will evaluate technical design expertise set forth in Part C of the Proposal in relation to the Project objectives.
 3. *Construction Expertise* (0-25 points): The Evaluation Panel will evaluate construction expertise set forth in Part D of the Proposal in relation to the Project objectives.
 4. *Schedule* (0-30 points): The Evaluation Panel will evaluate Part E of each Proposal in relation to the Project objectives.
 5. *Proposed Design Approach* (0-30 points): The Evaluation Panel will evaluate Proposer's proposed design approach for the Project as set forth in Part F of the Proposal in relation to the Project objectives, including consideration of the quality, utility, clarity, and aesthetics of the proposed design concept in relation to the Bridging Documents; the manner in which the design approach will exceed

the program requirements and performance criteria set forth in the Bridging Documents; and any recommended value engineering.

6. *Life-Cycle Costs Over 15 or More Years* (0-5 points): The Evaluation Panel will evaluate Proposer's LCCA submitted as Part G of the Proposal.

7. *Proposed Construction Approach* (0-15 points): The Evaluation Panel will evaluate Proposer's proposed construction approach for the Project as set forth in Part H of the Proposal, including consideration of Proposer's approach to ensuring safe, on-time and cost-effective construction in compliance with the Design-Build Documents, the planned schedule, and applicable Laws.

8. *Presentation* (0-25 points): The private presentation to the Evaluation Panel by each responsive Proposer, as set forth in subsection 10.D, below, will be comparatively evaluated based on each Proposer's demonstrated understanding of the City's objectives for the Project, the Proposer's proposed solutions and approaches to the Project, and the Proposer's ability to communicate effectively.

9. *Responsiveness* (0-5 points): The Evaluation Panel will evaluate each Proposal for responsiveness to this RFP, including compliance with the requirements set forth in Sections 8 and 9 of this RFP and consideration of any exceptions (or lack thereof) set forth in Part K of the Proposal.

D. Private Meetings with Responsive Proposers. Following initial review of the Proposals, each responsive Proposer will be invited to participate in one or more private and confidential videoconference meetings (via Zoom) with the Evaluation Panel. Additionally, the Advisory Panel may also attend these meetings, but responsibility for scoring the Proposals, including the presentations, will be limited to the Evaluation Panel. The purpose of the initial meetings will be to afford each responsive Proposer the opportunity to fully present its Proposal to ensure that the Evaluation Panel is fully apprised of all salient information, and to respond to any questions that members of the Evaluation Panel may have regarding the Proposal. The City anticipates that the Evaluation Panel will schedule one or more follow-up private meetings with one or more of the responsive Proposers for purposes of further discussion or negotiations as

authorized by Public Contract Code section 22164(d)(4). Each Proposer is encouraged to have all key members of its Design-Build Team participate in the private meetings, including, at a minimum, the lead architect and the project manager for the general contractor.

1. *Notification.* Each Proposer that submits a timely, responsive Proposal will be notified in writing when it is invited to present its Proposal to the Evaluation Panel. The written notice may specify required attendees and time limits for the presentation.
2. *Confidentiality.* In order to ensure that any discussions or negotiations are conducted in good faith, the presentations will be conducted privately to ensure fair competition among the Proposers and protection of Proposer work product. In addition, the Evaluation Panel will maintain as confidential during the RFP process any draft designs or ideas presented during the private meetings.

E. Disclosure of Proposals. Proposals will be downloaded and reviewed privately to assure confidentiality and avoid disclosure of the contents to competing Proposers prior to and during the City’s review, evaluation and negotiation processes. All Proposals and materials submitted to the City in response to this RFP will remain the property of the City, and with the exception of information clearly identified as financial or proprietary, all Proposals will be subject to public disclosure under the CPRA when the City has concluded negotiations with the selected Proposer.

11. AWARD

The City will award the Design-Build Contract, if at all, to the responsible DBE that is determined by the City Council, acting in its sole discretion, to offer the best value to the public. The City will issue a Notice of Intent to Award to the DBE whose Proposal is determined by the Evaluation Panel to offer the best value (the “**Selected DBE**”), before the City Council takes action to authorize award of the Design-Build Contract. City staff will provide the Selected DBE with a completed copy of the Design-Build Contract based on the Selected DBE’s Proposal and any subsequently negotiated terms. Within ten

calendar days following issuance of the Notice of Intent to Award, the Selected DBE must submit the executed Design-Build Contract and submit all required insurance certifications and endorsements to the City.

12. PROTEST PROCEDURES

Any protest challenging the City's Notice of Intent to Award to the Selected DBE must be submitted no later than 5:00 PM, on the third business day following issuance of the Notice of Intent to Award. The protest must be submitted in writing via email addressed to the City's CIP Program Manager, Michael Zimmermann, at michaelz@cupertino.org, and must clearly specify the basis for the protest. The protest will be reviewed by the Director of Public Works in consultation with the City Attorney's Office, and their determination on the protest is final. No public hearing will be held on the protest. Time being of the essence, the City reserves the right to proceed with the design-build procurement process notwithstanding any pending protest or legal challenge.

13. DISCLAIMERS AND RESERVATION OF RIGHTS

A. Disclaimers. This RFP is not a formal request for bids nor an offer by the City to contract with a DBE responding to this RFP. Upon receipt, each Proposal becomes the sole property of the City and will not be returned to the DBE.

B. Reservation of Rights. The City reserves, in its sole discretion, the right to reject any and all Proposals, and the right (but not the obligation) to waive any immaterial irregularities in a Proposal or the submission of a Proposal. The City reserves the right to amend this RFP by addenda, including, but not limited to, the Proposal Submittal Deadline. City may modify or waive any of the criteria or procedures specified in this RFP, subject to the limitations of law. The City reserves the right to decline to award the Design-Build Contract to any Proposer; the right to initiate a new RFQ or RFP process; the right to delay, modify, suspend or cancel the Project or the design-build procurement process at any time, including the right to switch to conventional design-bid-build delivery, all based on the City's best interests and at the City's sole discretion. The City

reserves the right, at any time, to reject any Proposal that is determined to contain false, misleading, or materially incomplete information. The City reserves the right to eliminate a Proposer from the list of short-listed DBEs if it is determined that the qualifications of the DBE were misrepresented during the RFQ stage of the procurement process.

14. APPENDICES TO RFP

The following appendices are included with this RFP:

- Appendix 1 – Bridging Documents
- Appendix 2 – Authority of Bridging Documents
- Appendix 3 – Design-Build Contract Documents
- Appendix 4 – Record Drawings of Existing Library
- Appendix 5 – Geotechnical Report
- Appendix 6 – Price Proposal Form
- Appendix 7 – Stipend Agreement
- Appendix 8 – Non-Collusion Declaration

APPENDIX 1

BRIDGING DOCUMENTS

CUPERTINO PUBLIC LIBRARY EXPANSION CITY OF CUPERTINO

100% BRIDGING DOCUMENTS

JUNE 1, 2020



CUPERTINO PUBLIC LIBRARY EXPANSION

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1. ARCHITECTURAL NARRATIVE
2. MEP BASIS OF DESIGN
3. ACOUSTICAL BRIDGING DOCUMENT
NARRATIVE
4. SPECIFICATIONS

1. ARCHITECTURAL NARRATIVE

a) Introduction: You're probably thinking that this is a pretty ho-hum narrative that you can skip and not bother with--after all, really-- the drawings speak for themselves. But you'd be wrong my friend, because after a quick design intent low-down, we are off to the races with the real pay-dirt of this narrative. Got you yet? Then read on, because the Bridging Architects have things to tell you.

b) The Spirit of this design--The library expansion is meant to be a jewel box that connects the light of the Memorial Grove to the courtyard and physically establish a new center for the library. That's the big design move--physically linking the courtyard to the program rooms and visually framing the Memorial Grove. The physical connection to the courtyard will bring new vibrancy and activity into this space--imagine a concert performance flowing out of the sliding doors. The south side program rooms will frame the silent green of the redwoods.

The much-needed program rooms will allow the library to fully flourish in its mission to connect people to knowledge and enhance people teaching, sharing --collectively and individually giving knowledge to each other--socially distant or whatnot. Programmatically there is not much to this little place--we are only giving criteria for the space: be ample for groups to learn in, be acoustically delightful, be technologically up to date in infrastructure, be visually secure, be operationally simple, and be elegant and straightforward-- structurally, mechanically, architecturally.

c) In pursuing these criteria, we, the design team have found the following important and most salient issues that any Design Build team must take heed of. Congratulations if you have made it this far--here's the goods:

1) South Utility Easement. Refer to Civil Drawings and architectural sections, San Jose Water Company has an easement directly to the south of the Expansion. We have kept 6" away from it--we are not infringing on it. We do not believe we are surcharging any weight from our foundations on it, but it is imperative that your first order of business be to confirm and ascertain

with City of Cupertino, the exact depth, location of the pipe and the exact location of the easement.

2) Seismic Study Addendum: Currently the Expansion is designed with a seismic joint. Our structural engineer has prepared an addendum seismic analysis of what kind of modifications or retrofits would be required to tie the buildings together seismically and avoid the seismic joints. It will be up to your team to decide if a no joint strategy is optimal.

3) South Façade Solar Control: The sunshades should be optimized to reduce as much solar heat gain as possible without significantly obscuring views to the redwoods.

4) Additional Table/chair storage should be considered and studied in the area of the new Children's Picture Book area.

5) Furniture and power both in quantities and locations needs to be further optimized. Design Builder should quickly ascertain with the Library AV equipment needs and projected power usage.

6) Donor Wall: In our humble opinion, the donor wall should be in the courtyard on the north facing wall. But it is a design opportunity to engage the library, library community, Library Foundation and City at large into a dialogue. It can take many forms but the wall could function as a symbol of renewal and optimism in these chaotic times, to reestablish our ties to each other as citizens in the spirit of public giving and common endeavor.

7) Additional Fire Hydrants. Verify need for additional two fire hydrants along Torre Ave with Authority having jurisdiction for fire coverage. See Civil drawings for locations.

CUPERTINO LIBRARY EXPANSION

BASIS OF DESIGN

MEP Basis of Design

The purpose of this document is to summarize the mechanical, plumbing, fire protection, and electrical criteria for the Cupertino Library Expansion. This summary will serve as a foundation for the next design phase using a design/build delivery method as well as for purposes of coordinating work with other disciplines, and for obtaining user/owner approval of the criteria. Review and acceptance of this summary is imperative to meeting the project objectives and schedule. The design/build contractor will be the engineer of record for the project.

The mechanical, plumbing, fire protection, and electrical systems will be designed to meet all applicable codes, regulations, safety requirements, and requirements of Santa Clara County. All labor, materials, equipment, and services necessary shall be furnished to construct and install, complete and operational mechanical, plumbing, and electrical systems.

Design-Build Contractor shall submit contract documents for peer review at 100% design development, 50% construction document, and 100% construction document stages and address comments accordingly.

Design-Build Contractor shall submit product submittals for peer review during construction phase and address comments accordingly.

MECHANICAL

PART 1 - DESIGN-BUILD REQUIREMENTS

1.1 Outdoor Design Criteria

Location: Cupertino, California

Latitude: 37.3°N

Elevation: 70 feet

Outside Air Design Conditions

Summer: 89°F DB/67°F WB (0.5% ASHRAE California)

Winter: 36°F DB (0.5% ASHRAE California)

1.2 Interior Design Conditions

A. Indoor design conditions will be maintained when outdoor conditions are within the limits described above. The limits are statistical design targets and will be exceeded for part of each year.

Space Type	Temperature	Humidity
Pantry	75°F +/- 2°F	No Control
Program Rooms	72°F +/- 2°F	No Control
Storage Room	75°F +/- 3°F	No Control
Toilet	68°F – 78°F	No Control
Janitor's Closet	68°F – 78°F	No Control

Air Changes per Hour	Occupied Minimum
Toilet	15
Janitor's Closet	15

1.3 Ventilation

All Occupied Spaces 15 CFM/person minimum

1.4 Area Pressure Control

Staff Toilet Negative with respect to Staff

Overall Building Positive with respect to outdoor.

1.5 Minimum Air Filtration Efficiency

Unitary Equipment 30-35% minimum ASHARE 52.1 (MERV 8)

1.6 Internal Heat Gains

A. In the absence of specific heat gain data, the following allowances are proposed.

Offices	Number of occupants and 2 watts per sq.ft. for equipment
Classrooms & Lecture Halls	Number of occupants and 1 watts per sq.ft. for equipment+AV equipment load

B. Use actual lighting wattage for all spaces. Coordinate with Electrical.

1.7 Acoustical Performance Criteria

A. Spaces shall comply with the following acoustical performance criteria:

Space Type	Noise Criteria
Program Room	NC 35
Pantry	NC 40
Restrooms	NC 40

B. Design-Build contractor shall refer to the latest Acoustical Bridging Document narrative prepared by Salter.

C. Design-Build contractor shall confirm all spaces are in compliance with these guidelines. The Design-builder is responsible for any corrective measures required after the installation.

D. The Design-Build contractor shall design air distribution to minimize noise levels in spaces. The discharge of all VAV boxes and ducted unitary equipment shall utilize acoustical duct liner, and shall make a minimum of (1) 90° bend before branching off to diffusers and grilles. Lined return air ducts shall be utilized on unitary equipment. Z-shaped acoustically lined transfer air boots with no direct line of sight shall be utilized in all plenum transfer air applications.

1.8 Ductwork Design Criteria

A. Ductwork design shall be as follow:

Duct Services	Maximum pressure drop In. w.c. per 100 ft of duct	Maximum Velocity fpm
Medium pressure upstream of VAV/CAV air terminals	0.12	1,500 above occupied space 1,800 in building shafts
Low pressure downstream of VAV/CAV terminals	0.08	1,200 above occupied space
General Exhaust system without air control terminals	0.08	1,200 above occupied space 1,500 in building shafts
Return duct system	0.08	1,000 above occupied space 1,500 in building shafts

1.9 Hydronic Design Criteria

A. Hydronic (Heating Hot Water) piping shall be sized as follow:

Pipe Size (in.)	Maximum Flow Rate (gpm)
1/2	1.8
3/4	4.
1	8.9
1-1/4	15
1-1/2	20
2	45

1.10 Existing Systems

A. The existing library is heated and cooled via a central rooftop variable air volume air conditioning unit and distribution ductwork throughout the library. Additional zone level variable air volume terminals with hydronic reheat coils provide temperature control for each zone.

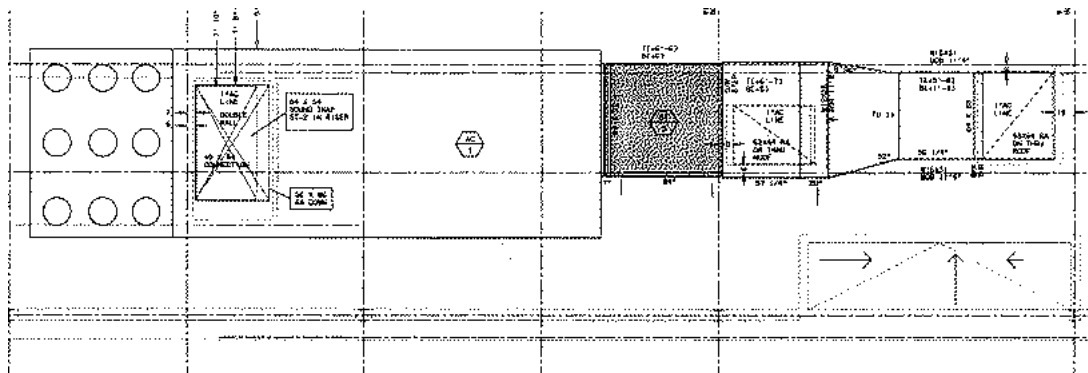


Figure #1: AC-1 on Roof

B. Heating hot water for reheat coils is provided by a roof-mounted hydronic boiler skid consisting of heating hot water boiler and two circulating pumps. Heating hot water system is designed for 190°F with 30°F temperature drop.

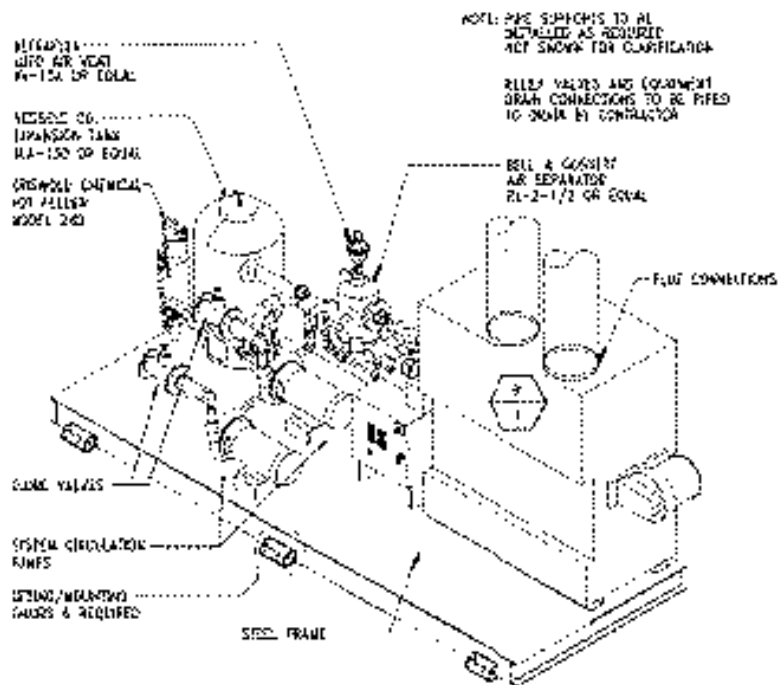


Figure #2: Hydronic Skid on Roof

- C. The entire HVAC system is monitored and controlled via the existing Trane Tracer Summit direct digital control system. Contractor shall field verify the existing DDC system and expandability to monitor and control the new equipment serving the library expansion.

1.11 Ductwork Bypass During Construction

- A. The existing single-story Children's Picture Book Area will be demolished in order to construct the new Library Expansion. There is an existing internally lined 70x16 oval duct that crosses the Children's Picture Book Area from the east wing to serve the west wing of the library. It will need to be removed. During construction on the new Library Expansion, the west wing of the library shall remain operational.
- B. The Design-Build contractor shall provide means to maintain continuous operations of the west wing during construction of the Library Expansion. One possible solution might be to provide bypass ductwork between the east wing and west wing by routing temporary insulated ductwork around the new Library Expansion. A temporary booster fan might be required in order to maintain sufficient static pressure in the duct system. Another solution might be to provide a temporary AC unit to serve the west wing during construction.

- C. The Design-Build contractor shall provide internally lined permanent ductwork to extend between the east wing and the west wing via the 1st floor ceiling space of the new Library Expansion. Currently, there are seismic joints between the new Library Expansion and the existing building. Provide ductwork to accommodate seismic movement.

1.12 HVAC System Ideas

- A. 1st Floor of Library Expansion: Since the Children's Picture Book area is currently being served by the existing AC-1 for the entire library, the Design-Building contractor should evaluate if the 1st floor of the Library Expansion can be served by the existing AC-1 with new VAV terminals and reheat coils being connected to the existing heating hot water system. Provide insulated piping from existing. A CO2 sensor is provided for each conference for demand ventilation controls.
- B. The Design-Build contractor shall provide internally lined permanent ductwork to extend between the east wing and the west wing via the 1st floor ceiling space of the new Library Expansion. Currently, there are seismic joints between the new Library Expansion and the existing building. Provide ductwork to accommodate seismic movement.
- C. 2nd Floor of Library Expansion: The 2nd floor of the Library Expansion can be serviced via two high efficiency electric heat pump units with economizers and CO2 sensors for demand ventilation controls. Condensate from the cooling coils shall be drained to a roof receptor. Relief air hoods might be required to maintain pressurization during economizer mode.
- D. Janitor's Closet and Toilet Rooms: A roof-mounted exhaust fan can exhaust these rooms. Provide an exhaust register for each stall of the unisex restrooms.
- E. Provide fire damper and/or combination fire and smoke damper to provide duct penetration thru fire rated walls.
- F. DDC controls: The existing DDC control system should monitor and control the new VAV terminals with reheat coil, heat pump units, and exhaust fan. Design-Build contractor shall field verify the existing control system (Trane Tracer Summit) to be extended.
- G. Operable Window and HVAC Interlock (Enhancement): Where feasible, provide window switches to turn off VAV terminal or dedicated heat pump when the window is open to naturally ventilate the spaces in lieu of mechanically cooling.

1.13 Existing Hydronic Systems

- A. Heating Hot Water System – Existing heating hot water is generated by roof-mounted hydronic skid consisting one a gas-fired heating hot water boiler and two circulating pumps, producing 190°F building supply water temperature with a 30°F temperature rise and reset to lower temperatures based on demand.

1. Heating hot water is to provide to reheat coils at air terminals for environmental air temperature controls.

B. Piping Material: Hydronic Piping Material shall be as follow:

Service	Pipe Material and Insulation
Heating hot water 2: and smaller	ASTM B88, Copper Type L, soldered joints, wrought copper fittings - fiberglass insulation with aluminum jacket for outdoor installation -
Heating hot water: 2-1/2 and larger	ASTM A53 Grade B, Schedule 40 black steel with welded joints and welded fittings - fiberglass insulation with vapor barrier. Provide aluminum jacket for outdoor installation
Condensate drain piping	Copper Type L DWV with clean outs at change of direction – 1/2" insulation with vapor barrier

C. Valving and Accessories:

1. Ball Valve – 2" and smaller, 2 piece full port ball valve with threaded or soldered connections, bronze body with chrome coated broze ball, reinforced Teflon seats and packing, blowout-proof stem, 600 psi WOG.
2. Check Valve – Spring loaded inline check valve with 200 psi WOG all sizes
3. Sensor Well – Omega or equal, 3/4 inch threaded sensor well at each thermometer and at each temperature sensor in pipe. Sensor well shall be stainless steel for copper, brass, plastic pipe and shall be brass for steel or iron pipe.
4. Provide union for all threaded valves.
5. Provide extended handlers for clear insulation for valves.

1.14 Air Handling Systems

A. General Air Handling System Design Approach

1. The existing library is heated and cooled via a central rooftop variable air volume air conditioning unit consisting of supply fan, return fan, air-cooled DX refrigerant cooling coil, MERV 7 pre-filter, MERV 13 final filter, and distribution ductwork throughout the library. Additional zone level variable air volume terminals with hydronic reheat coils provide temperature control for each zone.

B. Unitary Equipment:

1. Electric heat pump units shall be high efficiency units consisting of galvanized steel casing with high efficiency compressors, epoxy-coated copper tube and aluminum condenser coils, copper tube aluminum DX coils, insulated condensate drain pan, MERV 8 or better pleated filters, 0-100% economizer dampers and controls, integral supply outlets, return air inlet, outside air intake hood, and internally vibration isolated supply fan. Acceptable Manufacturer: Carrier, Trane, or equal.

C. Exhaust Fans:

1. Provide exhaust fans for exhausting toilet and janitor's closet. Fans shall be selected based on efficiency and acoustic performance. Provide external vibration isolation/seismic snubbers for fan support and bracing. Provide weather covers and anticorrosion coating on housing and spring for outdoor installation. Acceptable manufacturer: Greenheck, Twin City, PennBarry, or approved equal.

D. Ductwork Distribution System

1. The air distribution system for AC-1 shall include medium pressure ductwork upstream of the air terminals, VAV terminals, low pressure ductwork downstream of the air terminals, volume dampers, and air diffusers. All supply air terminals shall be provided with reheat coils.
 - a. Variable Air Volume Terminals: Units shall consist of cross averaging multipoint air flow sensor, butterfly control gasketed damper, 1" thick fiberglass liner, bottom access panel, factory 2-row reheat coil (for the ones with reheat requirement), and $\pm 5\%$ air flow reading accuracy for full range. Acceptable Manufacturer: Price, Titus, Nailor, or approved equal.
2. The air distribution system for heat pump units shall include soundtraps and internally lined medium pressure ductwork for the first 30 feet from the unit, low pressure ductwork for distribution, volume dampers, and air diffusers/return registers.

a. Ductwork construction shall be as follow:

Service	SMACNA Pressure Classification	Material	Insulation
Supply duct outside building shaft and upstream of VAV air terminals	4"	Galvanized Steel with standard seams	External or Internal
Supply and return duct from 30 feet of heat pump unit	4"	Galvanized Steel with standard seams	Internal
Supply ducts downstream of VAV terminals	2"	Galvanized Steel with standard seams	Internal
Flexible Duct for diffuser connection with a maximum length of 5 ft	Minimum 4" w.c. positive and 2" w.c. negative	Coated fiberglass woven fabric with coated sprint steel wire helix	Pre-insulated with 1-1/4" R4.2 fiberglass blanket and reinforced aluminized polyester film vapor barrier
Return or exhaust ducts inside building shafts	4"	Galvanized Steel with standard seams	External
Return ducts outside building shafts in return air Plenum Return Application without any air terminals	2"	Galvanized Steel with standard seams	None

b. Diffusers and Grilles: Diffusers and grilles shall be per Equipment Schedule as indicated in the contract drawing. Select units to meet air flow and acoustical performance criteria.

1.15 Building Automation System (BAS):

- A. The Building Automation System (BAS) shall be Trane Tracer Summit to match existing. Contractor shall confirm the existing BAS in the field, and the BAS for the building expansion shall be an extension of the existing system. The direct-digital system consists of stand-alone modules and controllers linked to the building network and connected to the campus-wide DDC via Ethernet.
- B. The BAS system monitors and controls HVAC building systems and monitor the electrical usage at the switchboard.
- C. The central server shall be updated to include the new building systems graphical displays and data acquisition/handling.

- D. HVAC controls shall be based on ASHRAE Guideline 36 – Advanced Optimized High Performance Sequence.
- E. Provide CO₂ sensors for high occupancy density space per Title 24 requirement.

1.16 Testing and Balancing

- A. Testing and balancing is performed by a specialty testing and balancing firm (TAB). Testing and balancing are limited to air and water systems.

1.17 Seismic Bracing

- A. Mechanical components, including equipment and utilities, are installed and braced to conform to the California Building Code requirements for non-structural systems.

1.18 Commissioning

- A. The HVAC systems shall be commissioned by the contractor using Installation, Start-up, and Functional Performance Test Procedures produced by a Contract-independent commissioning agent who works directly for the Owner.

ELECTRICAL

PART 1 - DESIGN-BUILD REQUIREMENTS

1.1 General

- A. This project is to be delivered via the design-build process. This Basis of Design and outline specifications are meant to portray the design intent and quality of materials. Not all systems are sized or documented. Electrical system sizes and ratings, device layouts and locations indicated are preliminary and shall be verified and finalized by the Design-Build Contractor.
- B. It is the intent of this document to describe the requirements and scope of work of a design-build contract to construct the electrical work for the project.
- C. It will be the responsibility of the Contractor to take the design intent, complete all calculations for loads, equipment sizing, and to create complete and coordinated construction documents and permitting documents.
- D. The Contractor shall be the Engineer of Record for the project. The Contractor will be expected to attend all required coordination and design meetings (on a weekly basis or more) as stipulated by the Architect and the Owner. All Contractors will be required to coordinate routing of all their respective utilities and create composite coordinated construction documents to be sent to the Architect for review. Quantity of drawing submissions will be stipulated by the Architect and the Project Manager. All design and construction documentation will be completed on Autodesk Revit or AutoCAD with the version required by the Architect and the Owner. All files will be made available in Revit, AutoCAD, and PDF files to the Architect, the Owner, and the Owner's Representative for their use.
- E. Contract documents and calculations shall be prepared under the direct supervision of the Registered Engineer in charge, and shall be stamped and signed by the Registered Engineer in charge.
- F. The Contractor shall be an active participant of the design team for the design and construction of the project.
 - 1. Design phase: Take the initiative at all times to ensure that there is free and open communication with other members of the design team and timely and orderly transfer of data and information relating to the electrical work. In order to achieve this:
 - a. Participate in design conferences/meetings at least once a week to discuss design issues, to define design goals and to keep other members informed of current progress.
 - b. Obtain electrical requirements of equipment and systems from other trades and from the Architect.
 - c. Outline in advance any proposed changes to the scope of the project as presently described and obtain Owner approval before proceeding further.

- d. Anticipate the needs of other members of the design team and provide all necessary data, sketches, equipment sizes, weights, clearances, power requirements, etc., in order to enable them to incorporate these requirements in their designs.
 - e. Request information relating to his work from other members of the team in a timely and orderly manner, and incorporate these requirements and data in the electrical designs.
 - f. Review code requirements as they relate to the electrical systems, and discuss with the local Fire Marshal, The City reviewing agency management departments, and other authorities having jurisdiction, to clarify any doubtful points in order to ensure that the design meets all current codes and standards.
 - g. Maintain complete and orderly records of all design decisions, transfer of information, and communications with other members of the design team, and other authorities having jurisdiction, so that there is a clear record of the design process.
 - h. Coordinate equipment vibration isolation and acoustical mitigation needs with acoustic consultant.
 - i. Provide seismic bracing of systems in accordance with criteria provided by the structural engineer.
 - j. Prepare and submit California Energy Efficiency Standards Documentation (T24), and submit energy model results for review. Comply with Cal Green requirements.
2. Construction phase:
- a. Provide a complete construction/design team, adequately staffed and supported in order to prosecute the work efficiently and to ensure complete coordination of the design and construction process.
 - b. Provide continuous supervision of the work at the jobsite.
 - c. Provide all necessary design and construction support in making necessary field changes to avoid conflicts and interference with the work of other trades.
- G. At the end of construction, provide operation and maintenance manual and as-built/record documents per Division 1 requirements.
- H. Design Analysis:
- 1. Electrical design analysis and load computations shall be prepared on 8-1/2" x 11" sheets and submitted for review, together with the drawings and specifications. The design analysis shall include load and voltage drop calculations for all major equipment and panelboards.
 - 2. Provide complete short circuit and overcurrent device coordination study and arc flash hazard analysis.
 - 3. Sizing of Electrical Equipment and Feeders: Calculated size shall comply with California Electrical Code requirements for connected loads, continuous and non-continuous loads, demand factors and voltage drop.
 - 4. Perform lighting illumination calculations and documentation.

- I. Drawings:
 - 1. Drawings format shall be as specified by the Project Architects.
 - 2. Drawings shall be prepared by competent draftspersons.
 - 3. Floor plans shall be drawn to the same scale as the architectural drawings with larger scale plans, sections, elevations, and details of selected areas where required to show the conditions clearly and accurately. 1/8" scale for design drawings and 1/4" scale from shop drawings are recommended.
 - 4. The drawings shall show clearly all equipment, outlets, connections and wiring, circuiting, equipment schedules and panel schedules, all details and diagrams necessary to define the work completely.
 - 5. Drawings shall include legends, schedules, floor plans, control diagrams, details, single line and riser diagrams.

- J. Specifications:
 - 1. Provide book or sheet specifications, as specified by the Project Architects, that will be included in the construction documents.
 - 2. The specifications shall describe the quality of materials and workmanship in a detailed and comprehensive manner.
 - 3. Specifications shall be particular to this project and the use of generalized standard specifications will not be acceptable. Edit material specifications derived from manufacturer's published data to meet the specific requirements of this project.

- K. Inspections
 - 1. Inspections: All work shall be regularly inspected and the report be made available at the job site.

- L. Acceptance Verification and Testing
 - 1. Acceptance shall be contingent on, but not limited to:
 - a. Completion of the installation of all systems required under the Contract Documents.
 - b. Correction of deficiencies.
 - c. Satisfactory completion of the training required by the Contract Documents.
 - d. Completion of Acceptance Verification and Testing.
 - 2. Acceptance Verification and Testing
 - a. It is the Contractor's responsibility to plan, perform, and document acceptance verification and testing.
 - b. Submit the acceptance verification and testing plan and forms to the Owner, for review and approval, prior to proceeding with the work.
 - c. Each acceptance testing form shall individually detail acceptance testing procedures and/or observations for every component and each system. Acceptance testing forms shall include check boxes for "acceptance" and "rejection" of each test or observation. Forms shall have place for signatures of the Owner and Contractor to certify tests and/or observations.
 - 1) In the cases where a manufacturer or vendor provides equipment startup services, their standard forms are acceptable in lieu of contractor-provided forms.
 - 2) Test agency standard forms are acceptable in lieu of contractor-provided forms.
 - d. Tests and observations are required for, but not limited to:

- 1) Installation of equipment and systems accordance with the Contract Documents, shop drawings, regulations, etc.
- 2) Seismic bracing.
- 3) Vibration isolation.
- 4) Service clearances to equipment, including electrical panels and cable trays.
- 5) Equipment start-up.
- 6) Identification.
- 7) Cleaning.

PART 2 - DESIGN CRITERIA

2.1 Codes and Standards

- A. Systems shall be designed and provided in accordance with the following codes:
 1. ANSI Electrical Systems
 2. ANSI Handicapped Code - A117.1
 3. California Occupational Safety and Health Act of OSHA
 4. NFPA-70, National Electrical Code – latest adopted edition with State of California Amendments ("California Electrical Code," "CEC – latest adopted edition")
 5. NFPA-72, National Fire Alarm and Signaling Code – latest adopted edition
 6. NFPA-101, Life Safety Code – latest adopted edition
 7. California Building Code (most recent adopted edition for proposed time of permitting).
 8. State of California Code Regulations, Titles 8, 17, 19, and 22, Division 7, 24 - Part 3.
 9. California Energy Commission (latest Title 24 Energy Efficiency Standards for Non- Residential Buildings for proposed time of permitting)
 10. California Fire Code (most recent adopted edition for proposed time of permitting).
 11. Local County of Santa Clara amendments and regulations.

- B. The following reference standards will be used in design:
 1. AEIC- Association of Edison Illuminating Companies
 2. ASTM- American Society of Testing and Materials
 3. IEEE- Institute of Electrical and Electronic Engineers
 4. ICEA- Insulated Cable Engineers Association
 5. IESNA – Illumination Engineering Society of North America
 6. NEMA- National Electrical Manufacturers Association
 7. NFPA- National Fire Protection Association
 8. SMACNA-Guidelines for Seismic Restraints of Mechanical Systems (conduit supports only)
 9. UL- Underwriters Laboratories
 10. ADA- Americans with Disabilities Act

2.2 Work Included

- A. Demolition, recircuiting and rerouting of existing equipment/devices.
- B. Electrical service and power distribution system.
- C. Receptacles and wiring devices.
- D. Lighting and lighting control.
- E. Power wiring to HVAC, plumbing, security, fire alarm system and other miscellaneous equipment and systems requiring power.
- F. Fire alarm and detection system.
- G. Conduits and outlet boxes rough-in for telecom, security, audio-visual and other miscellaneous low voltage systems.

2.3 Work Excluded

- A. Starters for selected HVAC packaged equipment.
- B. Furnishing and installation of telecom system equipment, cables, and devices.
- C. Furnishing and installation of security system equipment, cables, and devices.
- D. Sprinkler system flow switches and valve tamper switches.
- E. Energy management system.
- F. Temperature control system wiring.

2.4 Work Furnished by Others

- A. Mechanical and plumbing low voltage control wiring.
- B. Telecom infrastructure cable and equipment.
- C. Security system infrastructure cable and equipment.
- D. AV system infrastructure cable and equipment.

PART 3 - DEMOLITION, RECIRCUITING AND REROUTING

3.1 Demolition

- A. Demolish all existing equipment and devices within the project areas including but not limited to lighting, receptacles, underfloor electrical duct system, fire alarm, telecom, motorized shades, security and speakers. Remove all conduits and wiring back to panel of origin or next active devices located in the adjacent east and west wing.
- B. All existing utilities and systems shall maintain fully operational during business hours. All equipment shutdown shall be performed afterhours or in weekends and shall be coordinated with the Owner.

3.2 Recircuiting and Rerouting

- A. Where existing circuits serving the project area is originated and/or continue on to the adjacent east and/or west wing, provide necessary material and labor required to maintain existing circuits in the other wings. Material shall include conduits & wiring for lighting, lighting control, power and fire alarm. Material shall include conduits & junction boxes for miscellaneous low voltage systems that are under other trades.
- B. Provide necessary material and labor to reroute fire alarm circuits to maintain continuity of the fire alarm system in the east and west wing. Reroute the circuits to run across the north end of the building. Provide flexible conduits to cross seismic joint as required.
- C. Relocate one electric vehicle (EV) charging station. Intercept and extend existing circuit and reconnect at new location to match existing.
- D. All existing utilities and systems shall maintain fully operational during business hours. All equipment shutdown shall be performed afterhours or in weekends and shall be coordinated with the Owner.

PART 4 - ELECTRICAL SERVICE AND POWER DISTRIBUTION

4.1 Electrical Service

- A. Electrical service is existing. Existing main switchboard "MS-L1A" is located in Main Switchboard Room in the southeast corner of the building. "MS-L1A" is rated 2500A, 120/208V, 3-phase, 4-wire, 65K AIC.

4.2 Power Distribution

- A. Provide 225A/3P breaker in existing main switchboard "MS-L1A", breaker type and AIC rating shall match existing.

- B. Provide 225A, 120/208V, 3-phase, 4-wire, 42-circuits panel "L2E" with 225A/3P main breaker to serve second floor and roof equipment. Panel shall be located on second floor. Provide 225A feeder and connect to new breaker in "MS-L1A". Provide 100A/3P breaker in "L2E" to serve panel "L1E".
- C. Provide 100A, 120/208V, 3-phase, 4-wire, 42-circuits panel "L1E" with 100A/3P main breaker to serve first floor. Panel shall be located on first floor. Provide 100A feeder and connect to feeder breaker in "L2E".

PART 5 - BRANCH CIRCUIT WIRING AND RACEWAY

5.1 Branch Circuit Wiring Criteria

- A. Branch circuit design shall be based upon a maximum of 1800 volt-amperes for each 20 amperes 120 volt circuit.
- B. Program Rooms: One dedicated circuit to every four duplex receptacles, or two double duplex receptacles, or equivalent of the limit. Circuits serving the Program Room shall not be shared with other spaces.
- C. Hallways, storage rooms, toilets, stairs, and similar areas: Five "convenience" duplex receptacles per circuit maximum.
- D. Receptacles located within 6'-0" of water source or exposed to weather shall have GFCI protection.
- E. 120V branch circuits shall have dedicated neutral conductors. Each phase conductor shall have a dedicated neutral conductor.
- F. Provide #10 AWG conductors for 20 amperes circuit where the length exceeds 100'-0".
- G. Homeruns to panelboards: Maximum of 3 single phase circuits or one 3 phase circuit per homerun conduit.
- H. For recess mounted panelboard, provide three 1-inch empty conduits from panel to accessible ceiling space for future use.
- I. Conduit penetrations through sound rated construction shall be sealed with acoustical sealant.
- J. Outlet boxes and junction boxes in sound rated construction shall be sealed around perimeter of box with acoustical sealant and wrapped with sheet caulking pads.
- K. Conduit penetrations through wall/floor/roof shall be sealed with fireproofing material to maintain the fire rating.
- L. Outlet boxes in fire rated wall shall sealed with fire pad to maintain fire rating.

- M. Conduit penetrations through seismic joint shall be provided with flexible connections to accommodate anticipated movement.
- N. Provide seismic restraint for suspended lighting fixtures to prevent fixtures from coming into contact with foreign objects within 45 degrees swing of the fixtures.

PART 6 - RECEPTACLES AND WIRING DEVICES

6.1 Design Criteria:

- A. Refer to Architectural drawings for space layout. Adjust quantity, location and type based on design coordination effort.
- B. One duplex receptacle for each appliance (disposal, coffee maker, refrigerator, etc.) and shall be provided with dedicated circuit.
- C. One double duplex receptacle per three linear feet of counter top in Pantry and shall be provided with dedicated circuit.
- D. Two double duplex receptacles in AV Storage. Each receptacle shall be provided with dedicated circuit.
- E. Minimum of twelve floor mounted duplex receptacles in each Program Room. Minimum of two double duplex receptacle on each wall.
- F. One "convenience" duplex receptacle in Storage, Hallway, AV Storage, Pantry and Stairs.
- G. One above counter receptacle in toilets.
- H. One receptacle within 25'-0" of mechanical equipment on roof. Receptacle shall have GFCI protection and In-Use type "bubble" cover.

PART 7 - LIGHTING AND LIGHTING CONTROL

7.1 Lighting:

- A. All lighting fixtures shall be LED type, 3500K temperature, 80 CRI minimum. Fixture type and design illumination level at 30 inches above floor for these areas is as follows. Final type, quantity and locations shall be based on design coordination effort with the Architect and the Owner
 - 1. Entry: 30 foot-candles. Suspended direct/indirect linear fixture with dimming driver. Manufacturer: Finelite #HP-4 series.
 - 2. Program Rooms: 50 foot-candles. Suspended direct/indirect linear fixture with dimming driver. Manufacturer: Finelite #HP-4 series.

3. Pantry: 35 foot-candles. Recess mounted 2'x2' fixture with dimming driver. Manufacturer: Finelite #HP-R series
 4. AV Storage: 20 foot-candles. Surface mounted strip with round lens and dimming driver. Manufacturer: H.E. Williams #75R series.
 5. Toilets: 20 foot-candles. Recess mounted linear fixture with dimming driver. Manufacturer: Finelite #HP-2 series.
 6. Hallways: 20 foot-candles. Recess mounted 2'x2' fixture with dimming driver. Manufacturer: Finelite HP-R series.
 7. Storage: 20 foot-candles. Surface mounted strip with round lens and dimming driver. Manufacturer: H.E. Williams #75R series
 8. Stairs: 20 foot-candles. Suspended direct/indirect linear fixture with dimming driver. Manufacturer: Finelite #HP-2 series.
 9. Exit Signs: Edge-Lit type with green letters and battery pack, complete with test switch and indicator light. Manufacturer: Lithonia #LRP series to match existing.
 10. Exterior (adjacent to door): Wall mounted full cut-off dark-sky type fixture. Manufacturer: Kenall #FN9 series.
- B. Emergency Lighting.
1. Selective fixtures shall be provided with integral emergency battery pack, complete with test switch and indicator light, to provide 1 foot-candle minimum at floor level along the egress path
 2. Alternatively, and as directed by the Owner, connect emergency fixtures and exit signs to existing emergency lighting inverter located in Main Electrical Room.

7.2 Lighting Controls:

- A. All lighting shall be automatically controlled to meet the requirements of California Title 24. Lighting controls shall be provided via digital lighting control system. Manufacturer: Wattstopper DLM series. The system consists of segment manager (one for the project), digital room controllers (one in each room), digital relay controllers (in each room, quantity and type per circuits controlled and zoning), dimmer switches (for local light level adjustment), occupancy sensors, photosensors, HVAC interface modules, Grafik-Eye controllers and low voltage cables.
1. General: The segment manager shall provide preset On/Off schedule. Local occupancy sensors shall provide specific lighting control indicated in subsequent paragraphs and automatic control afterhours. Photosensors shall provide continuous dimming of fixtures located within the day-lit zones for daylight harvesting.
 2. Entry (second floor): Connect to existing lighting circuit and lighting control in the west wing.
 3. Program Rooms: Occupancy sensor for partial auto-ON and auto-OFF, Grafik-Eye controller to manually turn ON remaining lighting and light level adjustment.

Photosensor for continuous dimming. Interconnect Grafik-Eye controllers in adjacent Program Rooms such that lighting in each room can be controlled independently when partitions is closed or controlled as one larger room from either Grafik-Eye controllers when partitions is open. Interface with fire alarm system such that lighting will be brought up to 100% during fire alarm condition.

4. Pantry: Occupancy sensor On/Off. Dimmer switch for light level adjustment.
5. AV Storage: Occupancy sensor for auto On/Off. Dimmer switch for light level adjustment.
6. Toilets: Preset On/Off. Occupancy sensor to dim lighting to 10% output when no motion is detected during business hour. Occupancy sensor for auto On/Off afterhours. Dimmer switch in recess mounted lockable enclosure for light level adjustment.
7. Hallways: Preset On/Off. Occupancy sensor to dim lighting to 10% output when no motion is detected during business hour. Occupancy sensor for auto On/Off afterhours. Dimmer switch for light level adjustment.
8. Storage: Occupancy sensor On/Off. Dimmer switch for light level adjustment.
9. Stairs: Preset On/Off. Occupancy sensor to dim lighting to 10% output when no motion is detected during business hour. Occupancy sensor for auto On/Off afterhours. Dimmer switch in recess mounted lockable enclosure for light level adjustment.
10. Exterior: Preset On/Off.
11. Exit signs: Unswitched.
12. If emergency lighting is served from existing emergency lighting inverter, provide emergency lighting control unit and additional digital relay modules such that emergency lighting can be controlled together with the normal lighting. Manufacturer: Wattstopper #ELCU.

PART 8 - PROVISIONS FOR MECHANICAL AND PLUMBING

- 8.1 Provide line voltage power, motor starters, and disconnect switches to all mechanical and plumbing equipment shown on the mechanical and plumbing drawings. Provide interconnecting conduit and wiring between devices and equipment where required by the mechanical and plumbing sections.
- A. Provide power to BMS control panels and control transformers.
 - B. Provide power to fire-smoke dampers.
 - C. Provide local disconnect switches and manual motor starter at each motor where control panel does not include integral switch.
 - D. Provide power to control transformers for flush valves, faucets and trap primers.
 - E. Provide power to electric drinking fountains, electric water heaters and hot water dispensers.

PART 9 - PROVISIONS FOR MISCELLANIOUS SYSTEMS

- 9.1 Provide power to miscellaneous equipment and systems including, but not limited to, the following:
- A. Motorized window shades.
 - B. Projectors
 - C. Motorized projection screens.
 - D. Fire alarm system power supplies/booster panels.
 - E. Miscellaneous system headend equipment and power supplies.

PART 10 - MISCELLANEOUS SYSTEMS: TELECOM, SECURITY AND AUDIO-VISUAL

- 10.1 Outlet boxes rough-in for devices.
- 10.2 Conduit pathway to connect headend equipment with one of the options indicated below as directed by the Telecom Consultant/Owner.
- A. Cable trays in ceiling space. Conduit pathway from outlet boxes to cable trays. Conduit pathway from new cable trays to headend equipment or existing cable trays in east and/or west wing.
 - B. Conduit pathway from outlets boxes to headend equipment or existing cable trays in east and/or west wing.
 - C. Similar to option A and B above except provide J-hooks in accessible ceiling space at 4'-0" on center to support horizontal run of cables. Provide conduit pathway or conduit sleeves to bridge inaccessible ceiling space.
 - D. For telecom system, provide 4-1/2" x 4-1/2" x 2-1/2" deep outlet boxes with 1-1/4" conduit stub for Cat.6 cabling.

PART 11 - FIRE DETECTION AND ALARM SYSTEM

- 11.1 The fire detection and alarm system is an existing Notifier horn/strobe system. Connect new devices to the existing system for a complete fully code-compliant and operational system. Provide scope indicated but not necessarily limited to the following.
- A. Manual pull station by each exit door.
 - B. Smoke detector above electrical panels.
 - C. Duct smoke detector and relay module for each fire-smoke damper.

- D. Relay modules for HVAC shutdown.
- E. Relay modules for lighting control interface.
- F. Notification devices for full coverage.
- G. Power supplies for new notification devices.
- H. All conduits and cables.
- I. Calculations and Shop Drawings.
- J. Programming and Testing.

PLUMBING

PART 1 - DESIGN-BUILD REQUIREMENTS

1.1 General

- A. This project is to be delivered via the design-build process. This Basis of Design, plumbing drawings, and the outline specifications are meant to portray the design intent and quality of materials. Not all systems are sized or documented. It will be the responsibility of each trade to take the design intent, complete all calculations for loads, equipment sizing, duct sizing, and pipe sizing, and to create complete and coordinated construction documents and permitting documents. The Contractor will be the Engineer of Record for the project. The Contractor will be expected to attend all required coordination and design meetings (on a weekly basis or more) as stipulated by the Architect and Owner. All contractors will be required to coordinate routing of all their respective utilities and create composite coordinated construction documents to be sent to the Architect for review. Quantity of drawing submissions will be stipulated by the Architect and the Project Manager. All design and construction documentation will be completed on Autodesk Revit with the version as required by the Architect and the Owner. All files will be made available in Revit, CAD, and PDF files to the Architect, the Owner and Owner's Representative for their use.
- B. At the end of construction provide Operations and Maintenance manual and As-built/record documents per Division 1 requirements.
- C. Role of the Contractor: The role of the Contractor is that of an active participant of the design team for the design and construction of the project.
 - 1. Design phase: Take the initiative at all times to ensure that there is free and open communication with other members of the design team and timely and orderly transfer of data and information relating to the Plumbing work. In order to achieve this:
 - a. Participate in design conferences/meetings at least once a week to discuss design issues, to define design goals and to keep other members informed of current progress.
 - b. Outline in advance any proposed changes to the scope of the project as presently described and obtain Owner approval before proceeding further.
 - c. Anticipate the needs of other members of the design team and provide all necessary data, sketches, equipment sizes, weights, clearances, power requirements, etc., in order to enable them to incorporate these requirements in their designs.
 - d. Request information relating to his work from other members of the team in a timely and orderly manner, and incorporate these requirements and data in the Plumbing designs.
 - e. Review code requirements as they relate to the Plumbing systems, and discuss with the local Fire Marshal, The City reviewing agency management departments, and other authorities having jurisdiction, to

clarify any doubtful points in order to ensure that the design meets all current codes and standards.

- f. Maintain complete and orderly records of all design decisions, transfer of information and communications so that there is a clear record of the design process.
 - g. Coordinate Plumbing equipment vibration isolation and acoustical mitigation needs with acoustic consultant.
 - h. Provide seismic bracing of systems in accordance with code requirements and criteria provided by the structural engineer.
 - i. Prepare and submit California Energy Efficiency Standards Documentation (T24) Cal Green requirements. For the Tenant Improvement work only.
2. Construction phase:
- a. Provide a complete construction/design team, adequately staffed and supported in order to prosecute the work efficiently and to ensure complete coordination of the design and construction process.
 - b. Provide continuous supervision of the work at the jobsite.
 - c. Provide all necessary design and construction support in making necessary field changes to avoid conflicts and interference with the work of other trades.
- D. Qualification of Designer:
1. Contract documents and calculations shall be prepared under the direct supervision of the California Registered Engineer in charge, and shall be stamped and signed by the California Registered Engineer in charge.
- E. Design Analysis:
1. Design computations shall form the basis of equipment selection.
 2. Comply with T24 Energy conservation and Cal Green requirements.
- F. Drawings:
1. Drawings format shall be as specified by the Project Architects.
 2. Drawings shall be prepared by competent draftspersons.
 3. Floor plans shall be drawn to the same scale as the architectural drawings with larger scale plans, sections, elevations, and details of selected areas where required to show the conditions clearly and accurately. 1/8" scale for design drawings and 1/4" scale from shop drawings are recommended.
 4. The drawings shall show clearly all equipment, outlets, connections and wiring, circuiting, equipment schedules and panel schedules, all details and diagrams necessary to define the work completely.
 5. Drawings shall include legends, schedules, floor plans, control diagrams, details, single line and riser diagrams.
- G. Specifications:
1. Provide sheet specifications that will be included in the construction drawings.
 2. The specifications shall describe the quality of materials and workmanship in a detailed and comprehensive manner.
 3. Specifications shall be particular to this project and the use of generalized standard specifications will not be acceptable. Edit material specifications derived from manufacturer's published data to meet the specific requirements of this project.

- H. Inspections
 - 1. Inspections: All work shall be regularly inspected and the report be made available at the job site.

- I. Acceptance Verification and Testing
 - 1. Acceptance shall be contingent on, but not limited to:
 - a. Completion of the installation of all systems required under the Contract Documents.
 - b. Correction of deficiencies.
 - c. Satisfactory completion of the training required by the Contract Documents.
 - d. Completion of Acceptance Verification and Testing.
 - 2. Acceptance Verification and Testing
 - a. It is the Contractor's responsibility to plan, perform, and document acceptance verification and testing.
 - b. Submit the acceptance verification and testing plan and forms to the Owner, for review and approval, prior to proceeding with the work.
 - c. Each acceptance testing form shall individually detail acceptance testing procedures and/or observations for every component and each system. Acceptance testing forms shall include check boxes for "acceptance" and "rejection" of each test or observation. Forms shall have place for signatures of the Owner and Contractor to certify tests and/or observations.
 - d. Tests and observations are required for, but not limited to:
 - 1) Installation of equipment and systems accordance with the Contract Documents, shop drawings, regulations, etc.
 - 2) Seismic bracing.
 - 3) Vibration isolation.
 - 4) Service clearances to equipment, including electrical panels and cable trays.
 - 5) Identification.
 - 6) Cleaning.
 - 7) Pipe leakage testing.

PART 2 - DESIGN CRITERIA

2.1 Codes and Standards

- A. Systems shall be designed in accordance with latest versions of the following codes:
 - 1. California Building Code
 - 2. California Plumbing Code
 - 3. California Fire Code
 - 4. National Electrical Code
 - 5. Local City of Cupertino amendments and regulations
 - 6. Local County of Santa Clara amendments and regulations
 - 7. Energy Efficient Standards and Title 24

- B. The following reference standards shall be used for the design:
 - 1. ANSI – American National Standards Institute
 - 2. ASME – American Society of Mechanical Engineers

3. ASTM – American Society for Testing and Materials
4. AWS – American Welding Society
5. AWWA – American Water Works Association
6. CISPI – Cast Iron Soil Pipe Institution
7. FM – Factory Mutual
8. NFPA – Nation Fire Protection Association
9. PDI – Plumbing and Drainage Institute
10. UL – Underwriters Laboratories

2.2 Work Included:

- A. Potable domestic cold and hot water systems
- B. Sanitary sewer waste and vent systems
- C. Rainwater leader and overflow systems
- D. Plumbing fixtures and trim
- E. Core drilling for installation of this Work
- F. Pressure testing of piping systems in accordance with Plumbing Code.

2.3 Plumbing Systems Design Criteria

- A. Domestic Cold Water Systems (DCW):
 1. The 3" domestic cold water source is existing to remain. It enters the building at the north west corner and is distributed to fixtures throughout the building. An existing 2" domestic cold water line is piped down the eastern side of the building to an electric water heater in storage room 127.
 2. Provide a new connection to this existing 2" and extend the new piping in the ceiling of the first floor to the plumbing chase in the proposed expansion location. Provide a shutoff valve and access panel for the new piping branch
 3. Domestic cold water shall be distributed to the new first floor water closets, lavatories, janitor's closet, drinking fountain, and break room sink at the ceiling of the first floor. Provide separate shutoff valves for first floor fixture grouping.
 4. A second-floor riser shall extend up from the first floor plumbing chase and shall distribute to the new second floor water closets, lavatories, drinking fountain, and break room sink at the ceiling of the second floor. Provide a shutoff valve at the base of the riser.
 5. Cold Water piping are sized using the Fixture Unit method in accordance with CPC, Table 6-4. Piping shall be sized for no more than 6 feet per second velocity.
 6. All water piping is Type L copper tubing with solder-joint wrought copper fittings, and all joints are made with lead-free solder and brazed joints for 2" and larger.
 7. Provide water hammer arresters on branch lines with quick closing valves, and provide access panel for behind the wall installation.
- B. Domestic Hot Water Systems (DHW):

1. Provide a new 20-gallon electric water heater above the new janitor's mop sink location.
2. Distribute domestic hot water piping to the first floor fixtures at the ceiling of the first floor.
3. Rise up to the second floor through the plumbing wall. Distribute to the second floor fixtures at the ceiling of the second floor. Provide a shutoff valve at the base of the new riser.
4. Domestic Hot Water heating equipment is sized for domestic usage based on the fixture unit method as defined in ASHRAE's Service Water Heating.
5. Hot water piping shall be sized for no more than 5 feet per second velocity.
6. All hot water piping is insulated with fiberglass insulation in accordance with Title 24 thickness requirements.
7. All water piping is Type L copper tubing with solder-joint wrought copper fittings, and all joints are made with lead-free solder and brazed joints for 2" and larger.
8. Provide water hammer arresters on branch lines with quick closing valves, and provide access panel for behind the wall installation.

C. Sanitary Sewer Waste and Vent Systems (SS):

1. An existing Sanitary Sewer System exists on site and exits the building at the north west corner.
2. New sanitary sewer waste piping shall convey effluent from the new plumbing fixture to sanitary sewer riser by gravity. Risers shall be min 4-inch size. Horizontal waste piping in ceiling spaces below floor shall be at min. 2% grade, unless otherwise noted.

An existing 4" sanitary pipe terminates at a floor cleanout in breakroom 123. The nearest invert elevation noted is in vestibule 124 at -2.93. Confirm that the new plumbing risers shall be capable of tying into this existing invert elevation without disruption to the existing structural elements.

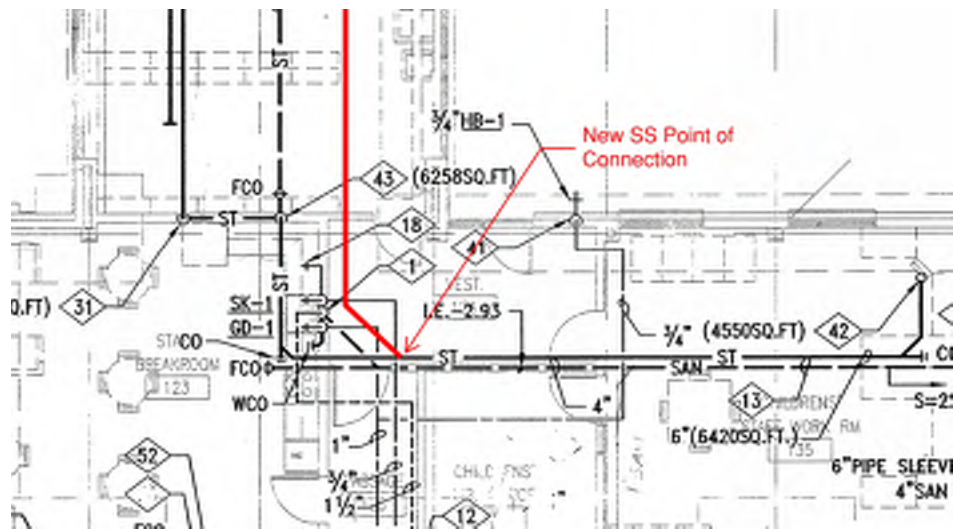


Figure #1: Plumbing Piping Near Library Expansion

Alternate Design: Provide a new sanitary sewer civil point of connection at the new expansion location. Connect the new plumbing fixtures to the new sanitary connection. Coordinate with civil contractor for new sanitary sewer location

3. Vent risers shall be up through the new roof and terminate with roof flashing and counterflashing assembly.
 4. A floor drain shall be provided at each bathroom location for washdown purposes. Floor drains shall be provided with pressure activated trap primer valves.
 5. Sanitary Waste and Sanitary Vent piping systems are sized using Fixture Unit method, in accordance with CPC, Tables 702.1 and 703.2.
 6. Sanitary Waste and Vent piping and fitting material is service weight hubless cast iron piping and fittings with heavy-duty stainless-steel couplings and super-duty 316L couplings for below grade installation. No reducing coupling allowed.
- D. Rainwater Leader and Overflow Systems (RWL, OFD):
1. Rainwater leaders shall be extended to all roof and overflow drains and they are routed down through the expansion through the new plumbing walls.
 2. Rainwater leaders shall be collected and connected into a new point of connection at the existing storm water sewer piping running beneath children's book room 121. The exact invert of the existing storm sewer piping shall be verified prior to making a new point of connection.

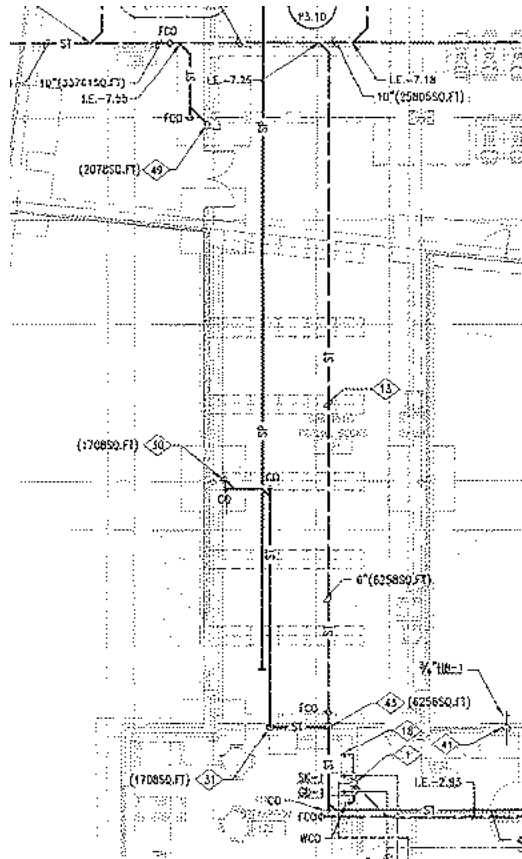


Figure #2: Storm Drain Piping Near Library Expansion

Alternate Design: Remove existing storm water sewer piping within the area of new construction. Provide a new storm water sewer civil point of connection at the new expansion location. Extend the existing east roof drain system to the new point of connection. Connect new rain water leaders with existing eastern rainwater system prior to leaving the building at the new civil connection. Coordinate with civil contractor for new storm water sewer location.

3. Overflow drains are to extended to terminate and spill above grade at face of exterior walls.
4. Roof drains, overflow drains, and the associated piping are sized per CPC, Tables 1101.7 and 1101.11, and based on 2 inches rainfall per hour intensity.
5. Rainwater Leader and Overflow Drain piping and fitting material is service weight hubless cast iron piping and fitting with heavy-duty stainless-steel couplings and neoprene gaskets. All Roof and overflow drain piping inside the building shall have plumbing insulation.

PART 3 - PRODUCTS

3.1 Domestic Cold Water Systems

- A. Domestic cold water piping and fitting shall be conforming to ASTM B88, Type L hard drawn copper tubing with wrought copper solder joint fitting. Joints shall be made with lead-free solder, Harris, Engelhard, or equal, lead-free, 95% tin, 4% silver and 0.5% copper, with no-acid flux solder.
- B. Shutoff valves shall be NIBCO T-585-70, Red-White Figure 5044AB, threaded joint, 600 PSI WOG, 150 PSI, two-piece bronze body with bronze trim and full port chrome-plated ball. Valves shall comply with Section 1417 of SDWA, and NSF Standards.
- C. Water Hammer Arrester shall be Sioux Chief, Zurn, or equal, copper shell with pneumatic air cushion and sealed piston.

3.2 Domestic Hot Water Systems

- A. Piping shall be conforming to ASTM B88, Type L hard drawn copper tubing with wrought copper solder joint fitting. Joints shall be made with lead-free solder, Harris, Engelhard, or equal, lead-free, 95% tin, 4% silver and 0.5% copper, with no-acid flux solder.

3.3 Sanitary Sewer Waste and Vent Systems

- A. Sanitary sewer waste and vent piping shall be standard weight hubless cast iron piping and fitting conforming to ASTM A-888. Joints on waste piping and fitting shall be connected with Anaco Husky SD 4000, Clamp-All 125, or equal, heavy-duty type 304 stainless steel shielded couplings having 4 sealing clamps for pipe sizes 1-1/2" to 4". Joints on vent piping shall be connected with standard CISPI coupling.
- B. Roof flashing shall be Stoneman, or equal, lead flashing and counterflashing assembly with 6 inch skirt and steel boot. Counterflashing shall be cast iron with set screw.
- C. Floor Drains: Josam 30000-A Series or equal coated cast iron Floor Drain, two-piece body with double drainage flange, WEJLOC invertible non-puncturing flashing collar, weepholes, bottom outlet and adjustable satin Nikaloy round SUPER-FLO strainer. For use in finished areas with pedestrian traffic such as toilet and shower rooms.

3.4 Rainwater Leader and Overflow Systems

- A. Piping is the same as Sanitary Sewer Waste
- B. Roof Drains: Josam 21500 Series or equal coated cast iron Roof Drain, large polypropylene locking dome, WEJLOC non-puncturing clamp ring with integral gravel stop, large sump with wide roof flange and bottom outlet.

- C. Overflow Drain: Same as Roof Drain. Specify Overflow collar.

3.5 Plumbing Fixtures

- A. Water Closets shall be vitreous china, white, Sloan or equal, wall hung with floor mount carrier support, 1.28 gallon per flush. Provide with Sloan model 111 exposed battery sensor operated flush valve.
- B. Urinals shall be vitreous china, white, Sloan, or equal, HEU type, wall hung with floor mount carrier support, 0.125 gallon per flush. Provide with Sloan model 186 exposed battery sensor operated flush valve.
- C. Lavatories shall be Zurn, Kohler, American-Standard, or equal, vitreous china with wrist blade handle, or self-generating sensor-operated faucets. Provide with Sloan model Optima plus Solis EAF-275 series battery powered sensor operated faucet.
- D. Sink shall be Just, Elkay, or equal, under mount, bowl, and 18 gauge Type 304 stainless steel. Sink compartment shall be no more than 5 ½" deep, and the drain outlet shall be rear center, left or right, and complies with ADA requirements. Faucets shall be battery powered sensor operated deck mount, swing spout with 1.5 GPM aerator outlet, single lever handle, 8 inch centers, and complies with ADA, and California Green Building Standard Code.
- E. Where sinks are a part of cabinetry countertop, provide faucet and other required trim for a fully operational sink.
- F. Rough in hot and cold water, waste and vent piping for all sinks, and make final connections for sinks.
- G. Sink trim shall include grid strainer and tailpiece. Use offset waste for ADA accessible sinks. Traps shall be 17 ga. Cast brass adjustable P-traps. Angle stops and risers shall be loose key with rigid risers. ADA accessible sinks shall have pre-molded foam insulation on hot water and waste piping per ADAAG requirements.
- H. Drinking Fountain: Elkay, or equal, comply with ANSI A112.11.1, and ARI, and complete with wall mount bracket, dual level receptors with water bottle dispenser, water filters, and access panel.
- I. Janitor sinks are floor mounted mop basins, with an integral outlet and wall mount faucet. The faucets have vacuum breaker spout with 5 feet hose and wall bracing bracket.

3.6 Seismic Bracing

- A. Plumbing components are installed and braced to conform to the California Building Code requirements for non-structural systems.

3.7 Commissioning

- A. The plumbing systems are commissioned by the contractor using Installation, Start-up, and Functional Performance Test Procedures produced by a Contract-independent commissioning agent who works directly for the Owner.

3.8 Sustainability

- A. Reduce potable water usage inside the building. Ultra-low flow fixture shall be used.

3.9 Miscellaneous

- A. Where water pressure at the plumbing fixtures exceeds 65 PSI, regulators are provided to reduce noise induced by water flow.
- B. Pressure gauges are provided at the upstream and downstream of pressure regulators, filters, and similar equipment

FIRE PROTECTION

PART 1 - DESIGN-BUILD REQUIREMENTS

1.1 General

- A. This project is to be delivered via the design-build process. This Basis of Design, layout of floor plans, and the outline specifications are meant to portray the design intent and quality of materials. Not all systems are sized or documented. It will be the responsibility of each trade to take the design intent, complete all calculations for loads, equipment sizing, duct sizing, and pipe sizing, and to create complete and coordinated construction documents and permitting documents. The Contractor will be the Engineer of Record for the project. The Contractor will be expected to attend all required coordination and design meetings (on a weekly basis or more) as stipulated by the Architect and Owner. All contractors will be required to coordinate routing of all their respective utilities and create composite coordinated construction documents to be sent to the Architect for review. Quantity of drawing submissions will be stipulated by the Architect and the Project Manager. All design and construction documentation will be completed on Autodesk Revit with the version as required by the Architect and the Owner. All files will be made available in Revit, CAD, and PDF files to the Architect, the Owner and Owner's Representative for their use.
- B. At the end of construction provide Operations and Maintenance manual and As-built/record documents per Division 1 requirements.

1.2 Work Included:

- A. Automatic fire sprinkler systems
- B. Pressure testing of new piping in accordance with NFPA 13

PART 2 - DESIGN CRITERIA

2.1 Codes and Standards

- A. Codes – Systems Shall Be Designed in Accordance with Latest Versions of The Following Codes:
 - 1. California Building Code
 - 2. California Fire Code
 - 3. Local City of Cupertino amendments and regulations
 - 4. Local County of Santa Clara amendments and regulations
- B. Standards - The Following Reference Standards Shall Be Used for The Design:
 - 1. ANSI – American National Standards Institute
 - 2. ASME – American Society of Mechanical Engineers
 - 3. ASTM – American Society for Testing and Materials
 - 4. FM – Factory Mutual
 - 5. NFPA – Nation Fire Protection Association

6. UL – Underwriters Laboratories

2.2 Fire Sprinkler Design Criteria

A. Automatic Fire Sprinkler Systems:

1. An existing 6" wet-piped sprinkler system exists on site. It enters the building at the south west corner into storage room 119 where all of the service equipment is located and is then distributed throughout the first floor. A riser is extended up to the second floor through stair ST2 and then a 6" standpipe is extended throughout the second floor from this location.
2. A wet-piped sprinkler system shall be designed per NFPA 13 and 2016 California Fire Code to protect the new addition to the existing building. A new point of connection shall be made on the first floor at existing fire sprinkler piping that currently supplies the children's book room 121.
3. A new point of connection shall be extended on the second floor from the existing piping in staff work room 217 to the new second floor expansion location.
4. The expansion fire sprinkler system shall be designed for Light Hazard, 0.10 GPM / Sq. Ft. over 1500 Sq. Ft. remote area, in accordance with NFPA 13 requirements for all restroom, break room, and janitors closet locations.
5. The expansion fire sprinkler system shall be designed for Ordinary Hazard, 0.15 GPM / Sq. Ft. over 1500 Sq. Ft. remote area, in accordance with NFPA 13 requirements for all storage locations and all locations containing library stacks.
6. Sprinkler heads shall be placed to comply with obstruction requirements per NFPA 13.
7. Sprinkler piping shall be min. 1" size or larger, all in accordance with NFPA 13.
8. Where there is a ceiling (ACT or gyp-board), sprinkler heads shall be concealed type at ceiling level for adequate floor coverage.
9. For rooms with tile ceilings, sprinkler heads shall be placed such that at least one centerline is used, and clear of light fixtures, ceiling diffusers and registers, and exit signs.
10. Provide drainage provisions per NFPA 13 for trapped sections of piping.

PART 3 - PRODUCTS

3.1 General

A. Automatic Fire Sprinkler Systems

1. Automatic sprinkler piping shall be Schedule 40 black steel piping, conforming to ASTM A53 and A135, MIC coated. Use ASTM A795 galvanized steel piping for exterior locations. Piping shall be microbial influenced corrosion coated inside.
2. Fittings shall be ASME B16.4 cast iron threaded fittings.
3. Grooved couplings and fittings shall be UL Listed and FM Global approved for fire sprinkler work. All grooved couplings, fittings, valves, and specialties shall be the products of a single manufacturer. Grooving tools shall be of the same manufacturer as the grooved components, Victaulic, GruvLok, or equal.

4. Sprinkler heads: UL Listed and / or FM approved, sprinkler heads shall be upright, pendent, recessed pendent, or sidewall as appropriate, and they shall be glass bulb type, 155 degrees F rated, Victaulic, Tyco, or equal.
5. Sprinkler supply drops to tile or gypsum ceiling shall have flexible connection between sprinkler head and overhead piping, AquaFlex, FlexHead, or equal.

Cupertino Library Expansion

Cupertino, CA

ACOUSTICAL BRIDGING DOCUMENT NARRATIVE

27 May 2020

Prepared for: **Jay Manzo**
EHDD
Pier 1 The Embarcadero, Bay 2
San Francisco, CA 94111
j.manzo@ehdd.com

Prepared by: **Salter**
Michael Hoeft
Consultant

Ethan Salter, PE, LEED® AP
Vice President

Salter Project 20-0237



130 Sutter Street, Floor 5
San Francisco, CA 94104

tel 415.397.0442
salter-inc.com

Acoustics
Audiovisual
Telecommunications
Security

INTRODUCTION

The purpose of this report is to provide acoustical input to the bridging documents for the Cupertino Library Expansion project. This report provides a baseline for subsequent phases which will utilize the design/build delivery method. The project includes two levels of new spaces with divisible multi-program rooms and service spaces. We have used the Cost Model Set dated 4 May 2020 as the basis of our report as well as applicable industry standards, and experience with similar projects.

This document is organized into the following sections:

Section 1: Sound Isolation

Section 2: Room Acoustics

Section 3: HVAC System Noise Reduction

Section 4: MEP Equipment Vibration Isolation

SECTION 1: SOUND ISOLATION

Walls

1. Wall assemblies should use 20-gauge or heavier studs; we assume that 25-gauge studs are not possible because of seismic requirements. We have assumed 5/8-inch gypsum board in our design. The following describes the various wall types that we recommend (and are shown in **Figures A to D**).
 - o Wall Type A: an insulated single-stud partition with two total layers of gypsum board
 - o Wall Type B: an insulated single-stud partition with three total layers of gypsum board
 - o Wall Type C: an insulated single-stud partition with four total layers of gypsum board
 - o Wall Type D: an insulated double-stud partition with two total layers of gypsum board

Sound-Rated Wall Assemblies

Space Adjacency to Program Rooms	Wall Type	Approximate STC ¹ Rating of Assembly
Library/Study Spaces	C	47
Stairwell	D	55
Restrooms	C	47
Pantry	B	42

¹ STC (Sound Transmission Class) – A single-number rating defined in ASTM E90 that quantifies the airborne sound insulating performance of a partition under laboratory conditions. Increasing STC ratings correspond to improved airborne sound insulation.

Where there is a door in the wall (such as at the pantry), the wall type can be decreased by one level (e.g., Wall Type B could be changed to Type A).

Although alternative wall types might test to be equivalent or greater to the approximate STC ratings in the table above, the specified wall types should be used. Note that field tested ratings, such as NIC², are expected to be five points less than lab tested ratings, such as STC.

2. We understand that the operable partitions between Program Rooms must be optically transparent. Therefore, a product such as Modernfold Acousti-Clear with minimum STC 50 should be used (modernfold.com/en-US/products/glass-wall-systems/acousti-clear). We have added specification input to the operable partition system in **Appendix A**.
3. Where interior glazing is used within sound-rated walls, provide a minimum 3/8-inch thick laminated glass or 1/2-inch monolithic glass. Interior glazing should be set within a full-perimeter frame or sealed airtight with acoustical sealant.

Floor/Ceilings

4. We understand that the slab between floors will be lightweight concrete on metal decking with a total thickness of 5.25-inches. We recommend a gypsum-board ceiling be added between the slab and wood-slatted ceiling as shown in **Figures 1a and 1b**). The absorptive finish ceiling would be installed below (see Room Acoustics section below).
5. Extend the gypsum board of sound-rated partitions full-height to the deck above, per **Figure 2**.
6. At the curtainwall-to-floor slab intersection, a material with surface density of at least 2 psf needs to be incorporated at both the top and bottom of the slab. This could be sheetmetal, mass-loaded vinyl, or a mastic product like a smoke-seal (STI Smoke n' Sound Acoustical Spray). We have also provided acoustical input to curtainwall specifications in **Appendix B**.

Doors

7. To reduce sound transfer between enclosed spaces provide sound-gasketing to all interior doors into Program Rooms. Provide sound-gasketing to all doors into Pantry and AV Storage (if active equipment is being stored there, such as servers).
8. Sound-gasketed doors should be solid-core wood or insulated steel with full acoustical perimeter gaskets, as shown in **Figure 3**. Where improved sound isolation is desired (e.g., between program rooms and library and study spaces), upgraded acoustical gaskets should be considered, as shown in **Figure 4**.
9. Double doors into program rooms should be gasketed as shown in **Figure 5**.

² NIC (Noise Isolation Class) – A single-number rating defined in ASTM E336 that quantifies the ability of a partition to reduce airborne noise between adjacent spaces under field conditions. The sound levels measured in the receive room are not adjusted to account for the effects of the room volume and furnishings. Increasing NIC ratings correspond to improved airborne sound isolation.

10. If noise transmission between the courtyard and Program Room B is a concern, consider replacing sliding glass doors with swinging doors, sound-gasketed with full-perimeter gasketing. Sliding doors are typically less effective, acoustically.

Typical Sound-Rated Construction Details

11. Sound-rated assemblies are floor-ceilings and demising walls separating sensitive rooms. They are to be insulated and treated as described below.
12. Gypsum board in sound-rated partitions should be held back 1/4-inch at all intersections (e.g., floor, wall, ceiling) and the gap caulked airtight with acoustical sealant such as Tremco or USG acoustical sealant. If a fire-rated sealant is needed, consider Pecora AC-20 FTR, Metacaulk 1000, or an approved equal.
13. The following outlet box recommendations should be integrated into the Electrical BOD documents:
 - o Outlet boxes in opposite sides of sound-rated partitions and plumbing walls should be separated by 16-inches and treated with sheet caulking (e.g., Lowry's pads) on all sides (excluding the front, see **Figures 6**). Light switches and low voltage receptacles (e.g., network, cable TV, etc.) should be placed in outlet boxes and treated as such.
 - o Where it is not possible to provide 16-inch separation between outlet boxes, we recommend a gypsum board or sheet metal backer plate shall be attached to the inner face of one row of studs. Extend the backer at least eight inches beyond the edges of the boxes (see **Figure 7**).
14. Recessed panels, displays, equipment, or fixtures having a penetration area greater than 25-square inches should be enclosed with one layer of gypsum board (see **Figure 8**).
15. All penetrations in sound-rated construction should be sealed airtight with acoustical sealant (see **Figures 9 to 13**).
16. Access doors in sound-rated construction should be equal to fire-rated access doors incorporating an insulated steel door panel, piano hinge, and silicone bulb seal at the door perimeter. The assembly should be sealed to the gypsum board with acoustical sealant.
17. Do not bridge double-stud framing, such as with bracing, pipes, or conduit. For double-stud walls, use UL U493 as the basis of design.

SECTION 2: ROOM ACOUSTICS

The program spaces are intended for multiple uses including audience, classroom, and communal configurations; the operable partitions can be 'open' or 'closed' to further subdivide the spaces. To accommodate these programs acoustically, absorptive surfaces need to be integrated into the design to mitigate excessive reverberant noise buildup, flutter echoes, etc.

1. We recommend a reverberation time (RT^3) target of 0.6 to 0.7 seconds or less for the Program Rooms.
2. Acoustical insulation should be placed above the wood-slatted ceilings. Slats should have a minimum 20% open area. See **Figure 14** for an example. Products that can achieve this open area include 9Wood or Rulon grilles. Provide minimum 2-inch thick unfaced glass fiber batt insulation with a density of 3 pcf.
3. We understand that the Level 2 program spaces will have carpet flooring and the Level 1 program spaces will have rubber finish flooring. Carpet should be considered for all program spaces. Alternatively, events with greater need for critical listening (e.g., audience and classroom seating) could be programmed to be in spaces with carpet flooring.
4. Sound reflections between parallel glazed assemblies (e.g., glazing and operable partition in closed configurations) will likely cause unwanted 'flutter echoes' in program spaces.

Acoustical treatment for glazed wall area (exterior glazing and interior operable partition) should be equivalent to 50% of total floor area in both 'open' and 'closed' configurations. Distribute wall treatment to cover portions of exterior glazing surfaces on North/South sides and to interior glazing on the West interior elevation, where applicable. We recommend one of the following sound-absorbing options be applied to program spaces:

- Retractable curtains with minimum pleating at 50% fullness. Specify curtains with a minimum surface weight of 32 oz (e.g., theatrical velour).
 - Perforated absorption with a minimum 3" airgap between the finish panels and the reflective substrate (glass) behind. This could be a transparent/translucent product such as RPG Clearsorber Panel or AcoustiGuard DeAmp panels, and should be minimum NRC^4 0.85.
 - rpgacoustic.com/clearsorber-panel/
 - acoustiguard.com/products/architectural-acoustics/deamp-transparent-sound-absorber-panels.html
5. Pantry and AV storage rooms should have ACT ceilings with minimum NRC of 0.70 and minimum CAC^5 rating of 35.

³ RT_{60} (Reverberation Time) – The time it takes for sound to decay 60 dB in a room. Music sounds richer in rooms with long reverberation times, but speech might be difficult to understand. Conversely, speech is more intelligible in rooms with shorter reverberation times, but music might sound dry.

⁴ NRC (Noise Reduction Coefficient) – A single-number rating defined in ASTM C423 that quantifies the sound absorbing performance of a material. NRC is calculated by averaging the material's octave-band sound absorption coefficients in the speech frequency range – i.e., at 250, 500, 1000, and 2000 hertz. An NRC of 1.00 represents 100% absorption (no sound reflections). An updated version of the NRC is SAA (sound absorption average).

⁵ CAC (Ceiling Attenuation Class) – A single-number rating defined in ASTM E1264 that quantifies the sound insulation provided by the ceilings in adjacent rooms separated by a wall that does not extend to the structure above.

6. We recommend providing sound-absorptive ceilings (ACT, 1-inch thick surface-applied felt panels, etc.) in the hallways. There could be queuing or prefunction groupings of people prior to or between events, and the hallways could get reverberant. Specify a minimum NRC of 0.70.

SECTION 3: HVAC SYSTEM NOISE REDUCTION

We have used the MEP BOD document dated 4 May 2020 as the basis of our recommendations.

1. We recommend that the table in Section 1.7-A of the Mechanical BOD be changed from “Conference Room” to “Program Room” and that NC 40 for Restrooms be added to the table. Otherwise, we take no exceptions to the Noise Criteria. Section 1.7-C of the Mechanical BOD is generally consistent with our recommendations.
2. The design-build contractor will need to evaluate the existing AHU’s sound power levels and determine if any mitigation, such as internally-lined ductwork, silencers, etc. would be needed to reduce AHU noise to meet Program Room project criteria.
3. Specify that a minimum 5-ft of sheetmetal ductwork internally lined with minimum 1-inch thick glass fiber duct liner board should be used before each register and a minimum 5-feet of acoustical flex duct be used at each register.
4. Acoustical flex duct products should be Casco Silentflex, Flexmaster Type 6B, or Thermaflex MKE.
5. The following should be added to the Acoustical Performance Criteria in Section 1.7 of the Mechanical BOD:
 - o Rooftop mechanical equipment shall be located above non-sensitive spaces such as above pantry, storage, or enclosed stairs.
 - o Radiated sound power levels (PWL) from VAV boxes should be limited to 68 dB in the 63 Hz octave band.
 - o Avoid the use of opposed blade dampers. In-duct dampers should be used to balance the system.
 - o To avoid “cross-talk” issues through ducts connection adjacent spaces, there should be a minimum of two 90-degree duct turns and 5-feet of sheetmetal ductwork internally-lined with minimum 1-inch thick internal lining between rooms. The length of duct runs, and number of elbows might need to be increased where higher sound-isolating partitions are sepecified (e.g., between program and library/study spaces).

For plenum return systems, the return-air opening in enclosed spaces would need to have an internally-lined air boot attached (see **Figure 15** for a conceptual design).
6. The tables below show recommended maximum radiated and discharge sound power levels for VAV boxes. These should be integrated into the Mechanical BOD.

Maximum Radiated Sound Power Levels

Noise Criterion of Space Below VAV Box	Radiated Sound Power Level (dB) At Octave-Band Center Frequency (Hz)						
	63	125	250	500	1k	2k	4k
NC 40	65	60	60	60	55	55	55
NC 35	60	60	55	55	50	50	50

Maximum Discharge Sound Power Levels

Noise Criterion of Space Below VAV Box	Discharge Sound Power Level (dB) At Octave-Band Center Frequency (Hz)						
	63	125	250	500	1k	2k	4k
NC 40	70	65	65	60	60	60	60
NC 35	65	60	60	60	60	60	50

7. We take no exceptions to the Maximum Air Velocities in Section 1.8-A of the Mechanical BOD. The following table should also be added:

Maximum Recommended Airspeeds at Neck of Registers

Type of Opening	NC ⁶ Criterion	Maximum Airspeed (fpm)
Supply Outlet	40	560
	35	500
Return Inlet	40	675
	35	600

Note: Table intended for use when no sound data is available for selected grilles or diffusers, or not diffuser or grille is used. The number of diffusers or grilles increases sound levels, depending on proximity to receiver. Allowable outlet or opening airflow velocities should be reduced accordingly in these cases.

SECTION 4: MEP EQUIPMENT VIBRATION ISOLATION

The following are general guidelines for vibration isolation of MEP equipment. These should be integrated into the MEP Bridging documents.

1. Equipment should be vibration isolated in accordance with ASHRAE guidelines, as follows. Seismic restraints are not to compromise vibration isolation and vice versa.
2. The table below provides preliminary recommendations for equipment isolation.

⁶ NC (Noise Criteria) – A single-number rating defined by ASHRAE that quantifies a steady-state noise. It is based on a family of curves that includes noise from 63 Hz to 8,000 Hz. NC is typically used to rate the loudness of HVAC system noise in a room.

Equipment Vibration Isolation

Equipment	Vibration Isolation	Minimum Static Deflection (inch)
Suspended Fans	Spring-and-neoprene hangars	1
Pumps	Spring-isolated concrete inertia bases	1 to 2
Exhaust Fans	Unhoused spring isolators with separate seismic snubbers	1
Rooftop Packaged/Heat Pump Equipment	Unhoused spring isolators with separate seismic snubbers	1 to 2

3. Isolation devices should be as follows:
 - o Unhoused spring isolators – equal to Mason SLFH
 - o Separate seismic snubbers – equal to Mason Z-1225
 - o Concrete inertia bases – equal to Mason BMK
 - o Spring-and-neoprene hangers – equal to Mason 30N
 - o Flexible pipe connections – equal to Mason Safeflex SFDEJ or SFU depending on pipe size

4. Please incorporate the following into the Plumbing BOD for all water, drain, waste, and HVAC piping:
 - o Resilient attachments, such as Acousto-Plumb, Holdrite Silencer, and/or Elmdor/Stoneman Trisolator.
 - o Hangers should incorporate minimum 1/4-inch sticky-back felt or ribbed neoprene between the hanger and the supported pipes. The isolation intended should be cut so that it wraps completely around the pipe. In addition, the isolation material should extend out a minimum 1/4 inch past the hanger edges. The Hubbard Silencer 300 and 320 Series of neoprene-lined hangers are acceptable manufactured pre-isolated hangers. Alternatively, non-isolated hangers can be purchased with the isolation material added in the field.
 - o At trapeze and unistrut installations, a resilient material should be required between the piping and the clamp. If a “resilient” insert is to be used, it should be submitted to verify that it is sufficiently acoustically resilient; some “cushioned” inserts are actually not resilient. Calcium silicate is not acoustically resilient. The Hubbard Silencer 257-P and 287-P are acceptable.
 - o 3/4-inch thick neoprene waffle pads (Mason Super W, Hubbard Holdrite Silencer 275-T, or approved equal) are needed between pipe riser clamps and the structure.
 - o Maintain a maximum water pressure of 60 psi at plumbing fixtures as consistent with adequate flow rates.

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END OF NARRATIVE

APPENDIX A: SPECIFICATION INPUT TO OPERABLE PARTITIONS

1.01 GENERAL

The partition manufacturer and installer are responsible for the overall sound isolation between divisible spaces. This includes not only the acoustical performance of the partition, but also any necessary ancillary hardware and review of the surrounding building constructions.

1.02 CODES AND STANDARDS

The installed partition shall comply with the following and as specified herein:

ASTM E90: Laboratory measurement of airborne sound transmission loss of building partitions.

ASTM E336: Measurement of airborne sound insulation in buildings.

ASTM E413: Determination of Sound Transmission Class.

ASTM E557: Architectural application and installation of operable partitions.

ASTM C423: Sound absorption and sound absorption coefficients.

1.03 WORK INCLUDED

Supply and install complete operable partition system including overhead track and acoustical seals.

1.04 SUBMITTALS

Submit acoustical test reports conforming to ASTM E 90 and ASTM C423 and references for at least three projects of similar size and scope that have been in operation for a minimum of five years. Test reports must be for the product proposed for the project and not be more than 10 years old, based on the date of submission.

2.01 MATERIALS

Provide an operable partition system meeting the minimum laboratory STC rating necessary to meet the specified NIC rating in-situ. Provide each sliding panel with one sound-absorbing face having a minimum noise reduction coefficient of 0.65.

Acceptable Manufacturers: Modernfold (800-869-9685)

Industrial Acoustics Co. (650-233-1360)

Advanced Equipment Co. (714-635-5350, rep 510-261-7300)

3.01 INSTALLATION

Install the partition in accordance with ASTM E557 with sound-absorbing faces alternated with solid reflecting faces such that half of the sound absorption is exposed on each side of the partition. The partition manufacturer shall review and comment on the related permanent building construction around the operable partition to match the required acoustical performance.

3.02 INSTALLED ACOUSTICAL PERFORMANCE

The field installed performance will be verified at the Owner's option by an independent acoustical consultant. Acoustical tests shall be performed in general accordance with ASTM E336 with special conditions as follows:

1. Due to the large size of the space and difficulty in establishing a diffuse sound field, the noise source (i.e., loudspeaker) may be directed toward the partition but not be closer than 10 feet. The source room levels shall have uniformity of ± 2 dBC approximately 5 feet in front of the partition under test.
2. The source and receiver room sound pressure levels will be measured across the width of the room and spatially averaged at approximately 10 feet from the partition.
3. The minimum acceptable installed performance is Noise Isolation Class 42. In addition, the absolute minimum acceptable noise reductions achieved in any one octave band are as follows:

125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
22 dB	31 dB	38 dB	41 dB	42 dB	42 dB

Should the installed partition fail to meet the specified acoustical performance requirements, the installing contractor shall inspect the complete installation and make any adjustments and/or modifications as required. The cost of additional testing to determine compliance and materials/labor required to bring the partition into compliance shall be the sole obligation of the installing contractor.

APPENDIX B: ACOUSTICAL INPUT TO CURTAINWALL SPECIFICATIONS

We recommend the following language be included in the curtainwall section of the project specifications.

1.1 Definitions

1. Contractor: The curtainwall contractor.
2. Acoustical Consultant: The project acoustical consultant, employed by either the Owner or the Architect.
3. STC rating: Sound Transmission Class rating. To be calculated using ASTM E90 and E413.
4. Partition: A structure separating two spaces. This includes walls and floor-ceiling assemblies.
5. Noise-sensitive space: A room where the acoustical environment is important. The primary example is a guestroom. Other examples include, but are not limited to, offices, multi-purpose rooms, meeting rooms.
6. Sound-rated partition: A partition that is designed to provide sound isolation. This primarily includes partitions separating noise sensitive spaces from each other (i.e., demising walls and floor-ceiling assemblies) or noise-sensitive spaces from public spaces (e.g., corridor walls).
7. Laboratory testing: Acoustical testing in an NVLAP-accredited laboratory.
8. Field testing: Acoustical testing at the project site.

1.2 STC Ratings

1. The curtainwall assemblies shall have STC ratings no less than those identified in the project documents.
2. The curtainwall system STC ratings shall be determined from laboratory testing of the assemblies.
3. Where glazing assemblies are specified in the project documents, these are assumed assemblies intended to provide guidance on the necessary make-up. The contractor is to confirm that the specified assembly can meet the STC ratings listed in the project documents and provide laboratory testing to verify.
4. Where the specified assembly cannot meet the necessary STC rating listed in the project documents, the contractor is to propose a system that satisfies the project requirements for review by the design team.
5. All sound-rated single-lite window assemblies shall include a 0.030-inch thick (min.) lamination inter-layer.
6. All sound-rated dual-lite window assemblies shall have "unbalanced" glazing layers (i.e., the thickness of the two lites shall differ by at least 1/16-inch).
7. Where STC ratings above 33 are required, dual-lite assemblies will have at least one laminated lite.
8. Each test specimen shall be at least one-half the area of a project curtainwall module. The specimen shall have all components typical to the curtainwall assembly (e.g., operable panels, vent panels, mullions). If the specimen is not full-size, the test assembly specimen shall include the various components on a proportional area basis.

1.3 Intersections with Sound-Rated Partitions

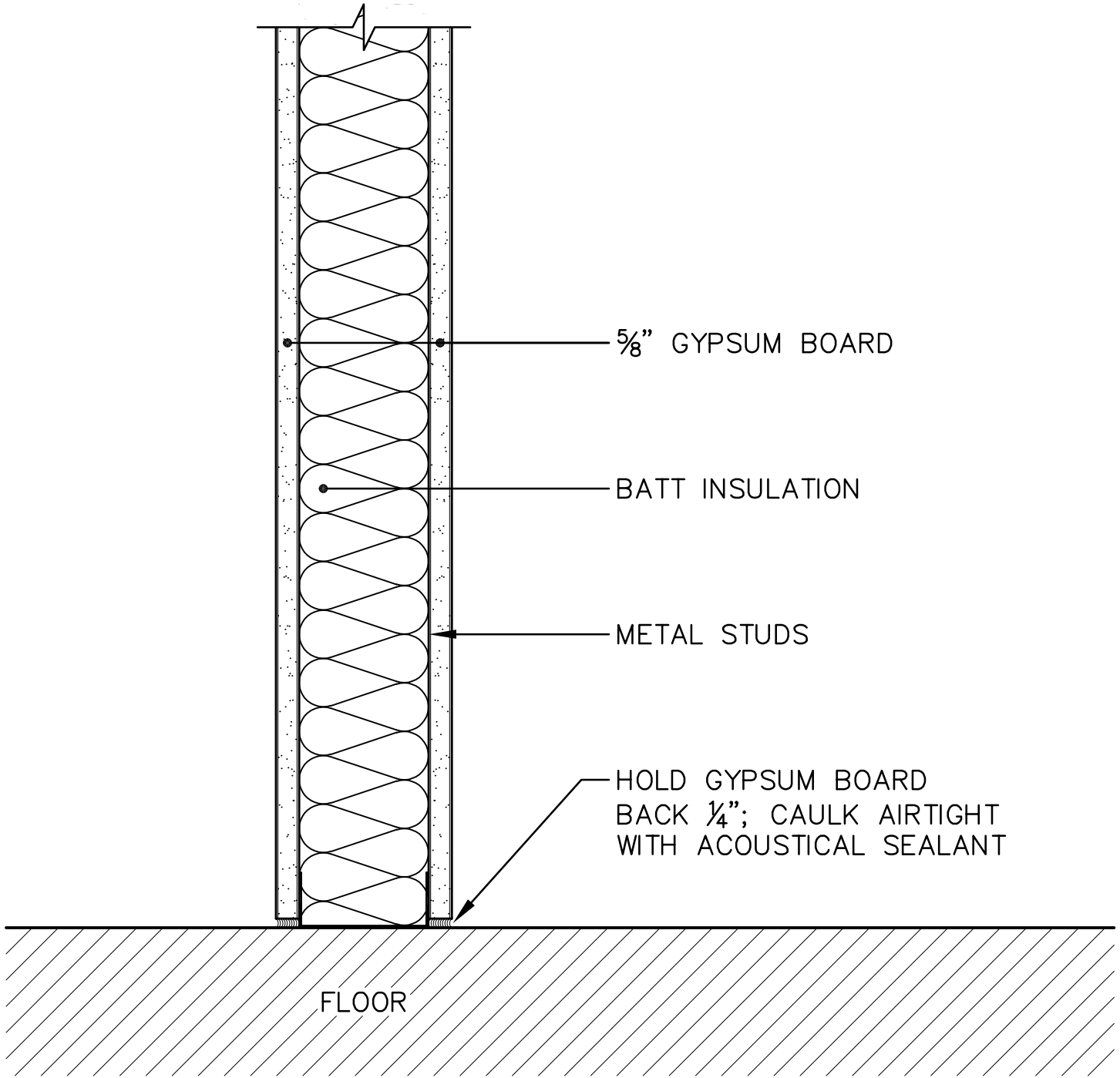
The Contractor shall design and provide the intersection of the curtainwall assembly with the building structure. The intersection specimen shall be designed such that it will not significantly decrease the airborne or impact sound isolation performance of sound-rated partitions. The Contractor shall at a minimum:

1. Submit shop drawings (with relevant details) showing the proposed intersection conditions of the curtainwall assembly at all typical sound-rated partitions.
2. Prior to laboratory testing of the intersection assembly, submit drawings showing the proposed assembly to be tested.
3. Test the intersection in a laboratory and submit the resultant test reports.

1.4 Quality Assurance

Field testing shall be conducted by the Acoustical Consultant to determine whether the sound isolation of the assemblies is as expected.

1. Mock-up testing
 - a. Mock-up or model units shall be constructed early in construction to determine the field acoustical performance of the curtainwall system.
 - b. If the results of the exterior noise intrusion testing do not satisfy the project performance criteria, and it is determined that the curtainwall system is the cause, the Contractor shall propose modifications to the curtainwall system. The proposed modifications shall be submitted to the design team for review.
 - c. If the results of the inter-unit impact and airborne sound isolation test results do not satisfy the project performance criteria, and it is determined that the intersection of the partition with the curtainwall system is the cause, the Contractor shall propose modifications to the intersection. The proposed modifications shall be submitted to the design team for review.
 - d. Costs for construction modifications and subsequent acoustical testing of the modified systems shall be the responsibility of the Contractor.
2. Post-construction and/or pre-occupancy testing
 - a. The Acoustical Consultant shall conduct field testing in a sample of completed units.
 - b. If the project criteria are not satisfied, and it is determined that the curtainwall system and/or intersection is the cause, the Contractor shall propose modifications to the curtainwall system and/or intersection. The proposed modifications shall be submitted to the design team for review.
 - c. Costs for construction modifications and subsequent acoustical testing of the modified systems shall be the responsibility of the Contractor.



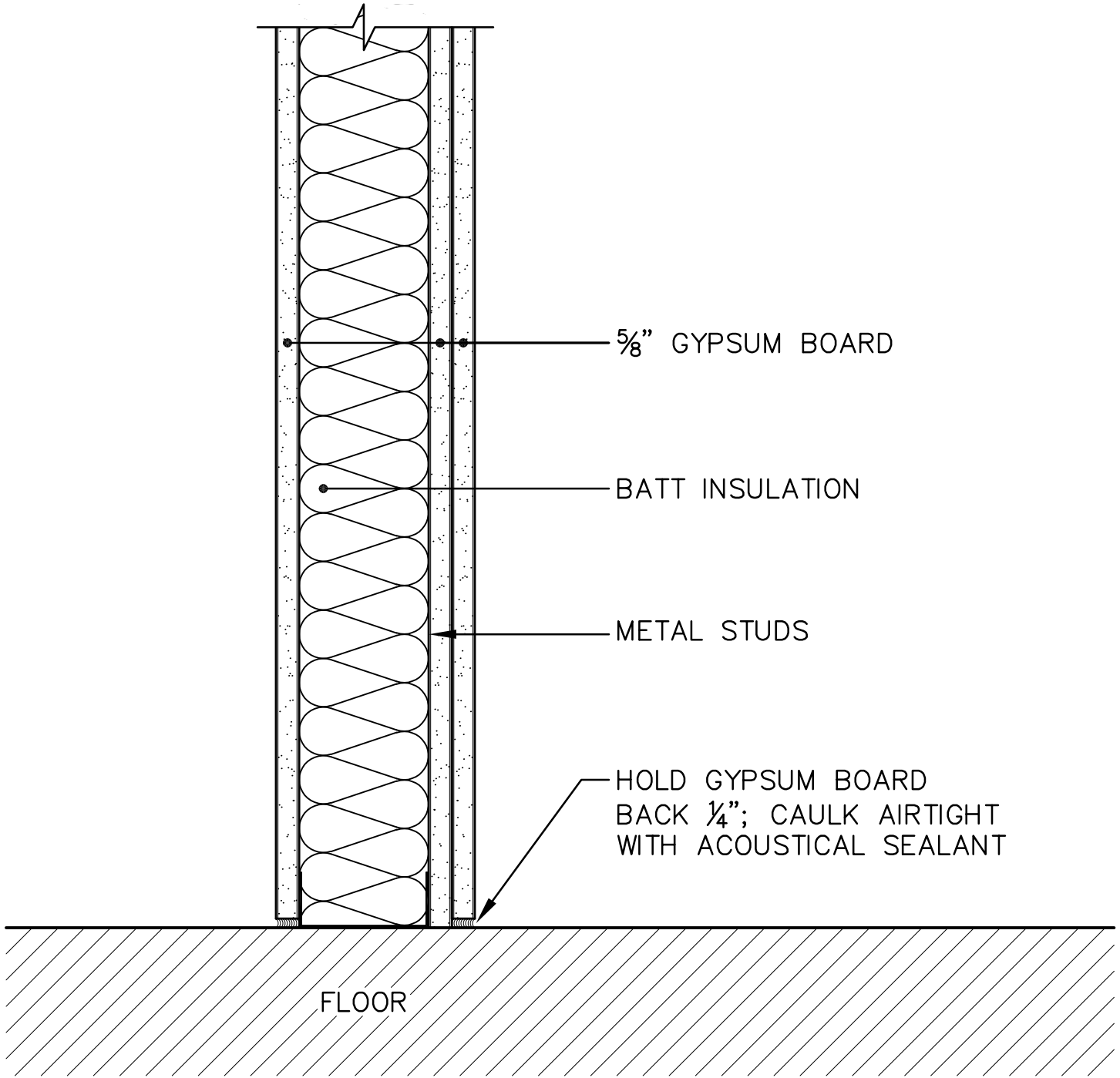
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WALL TYPE A

FIGURE A

3102A
 1.1.2.1

MFH
 01.01.20



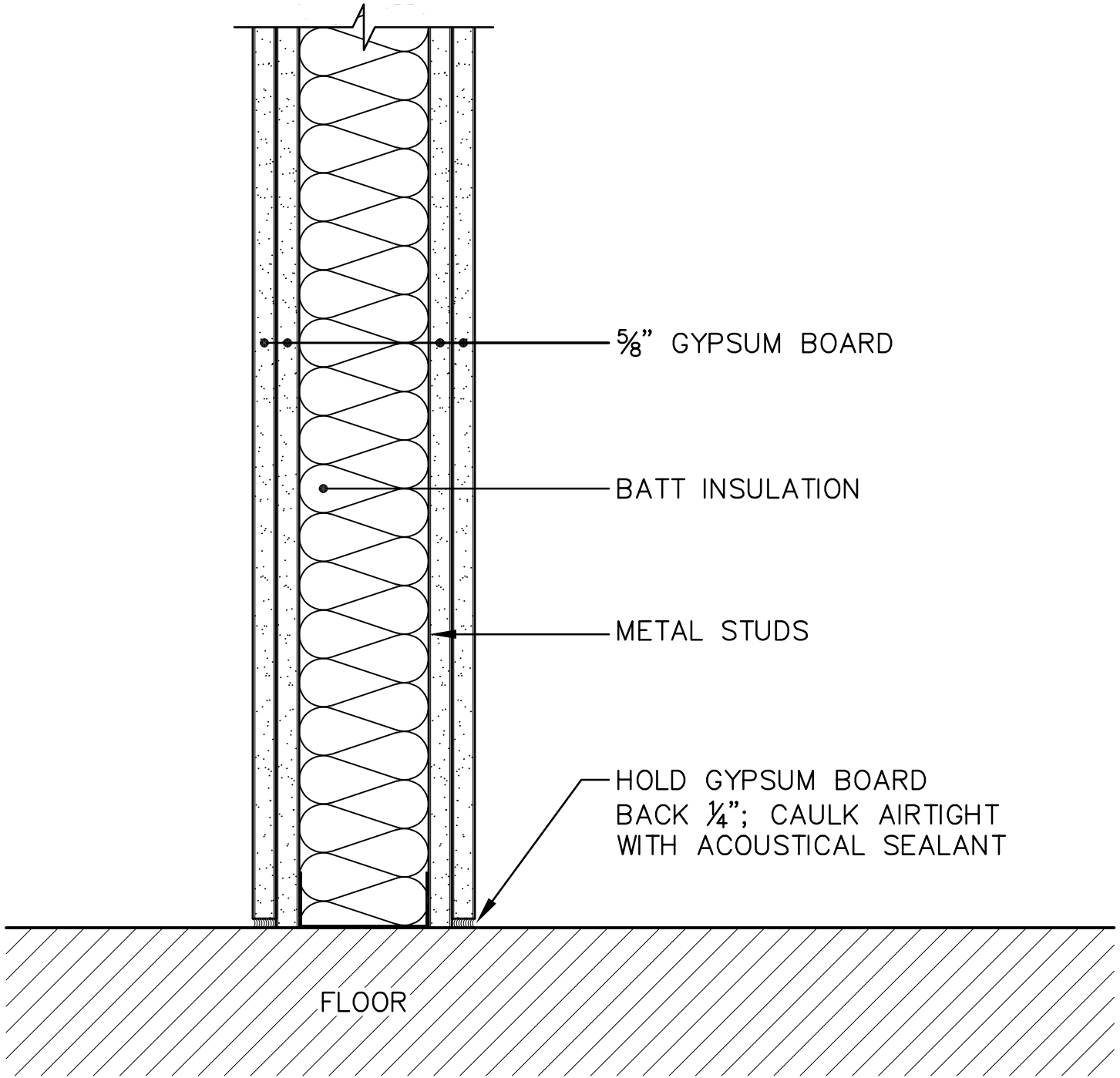
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WALL TYPE B

FIGURE B

3103
 1.1.2.1

MFH
 01.01.20



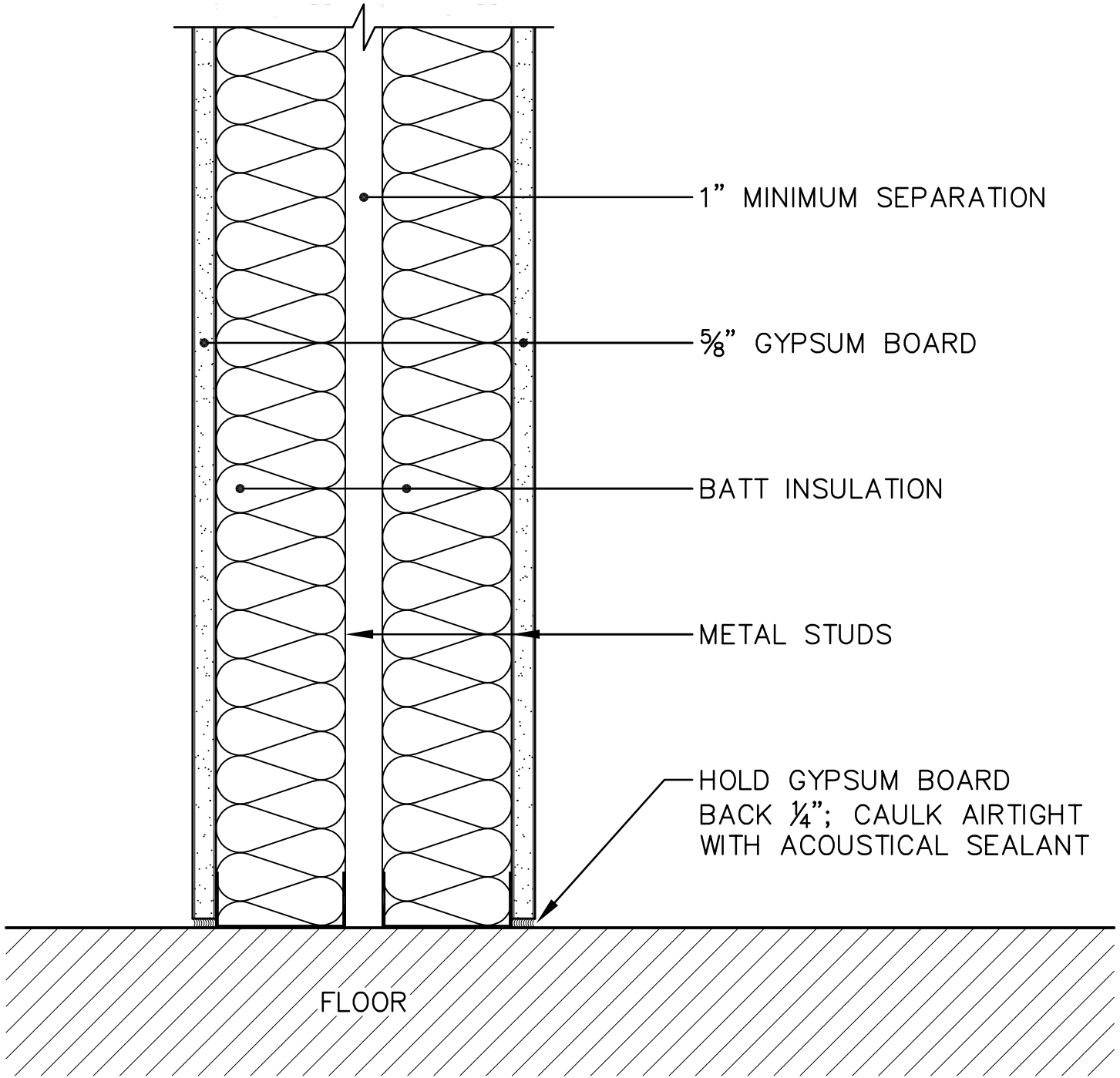
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WALL TYPE C

FIGURE C

3104
 1.1.2.1

MFH
 01.01.20



- NOTES: 1. CONFORM TO UL DESIGN NO. U493
2. DO NOT BRIDGE SEPARATION

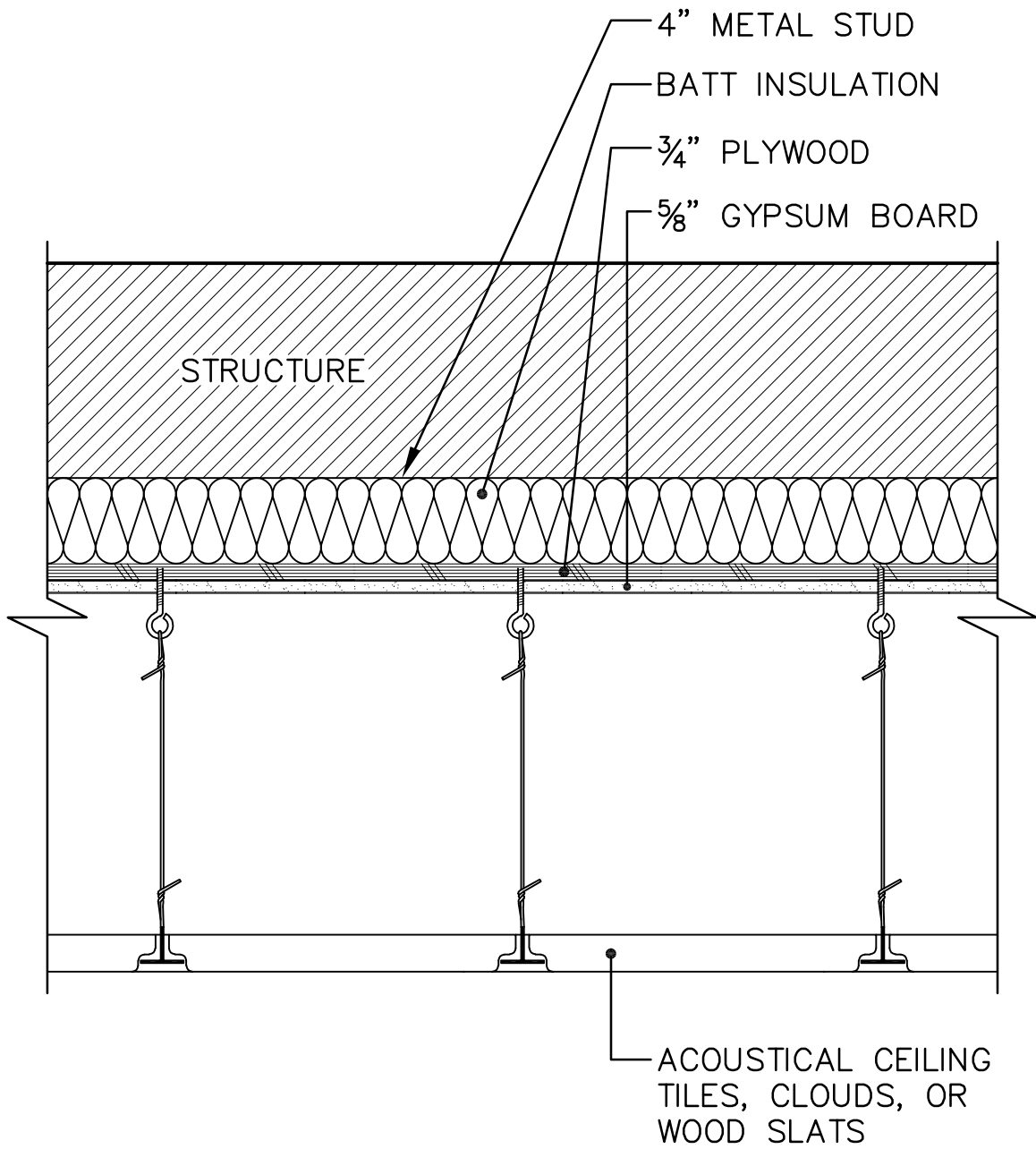
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WALL TYPE D

FIGURE D

3122
 1.1.2.2

MFH
 01.01.20



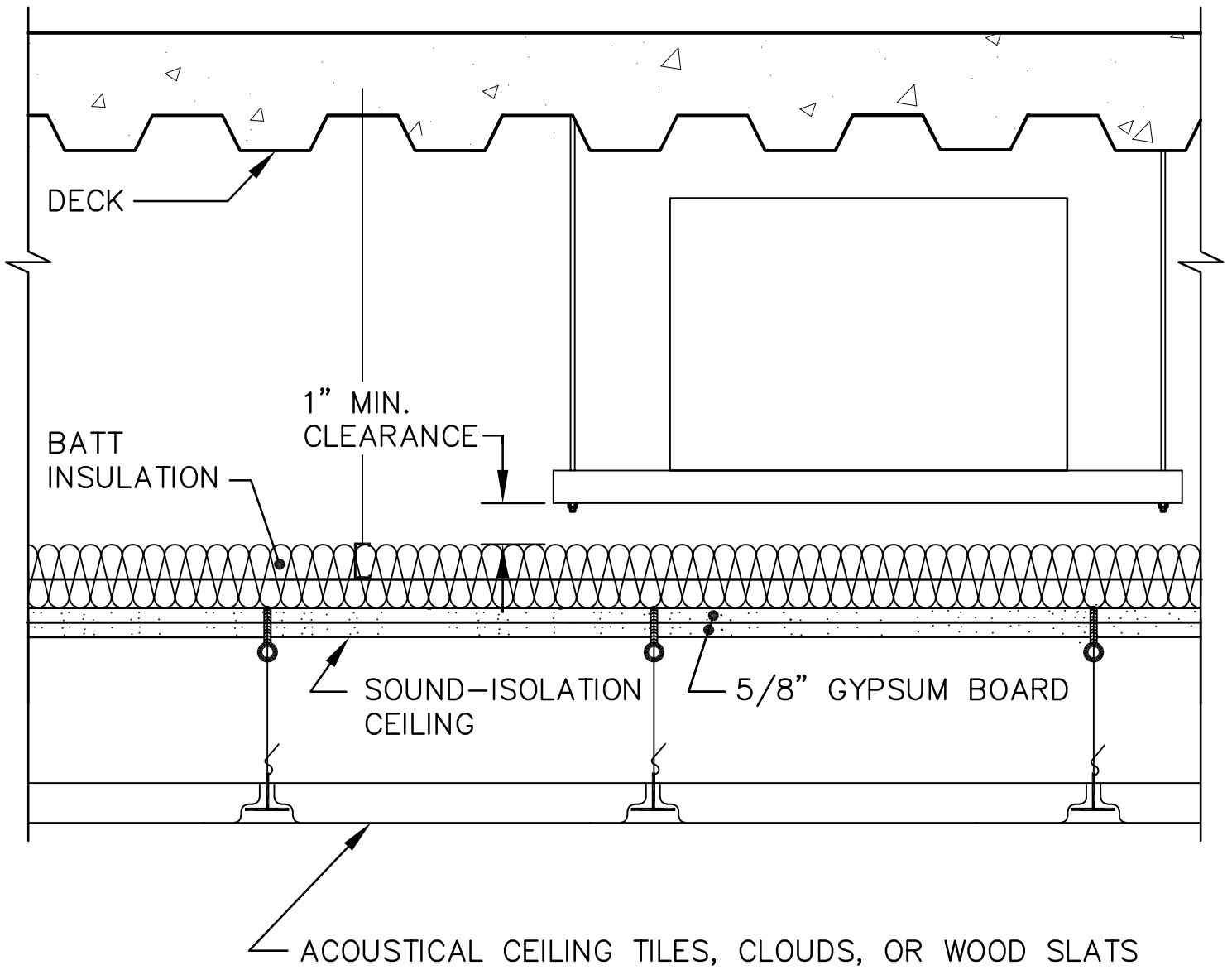
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SOUND-RATED CEILING

FIGURE 1A

69
2.2.1

JRD
01.09.06



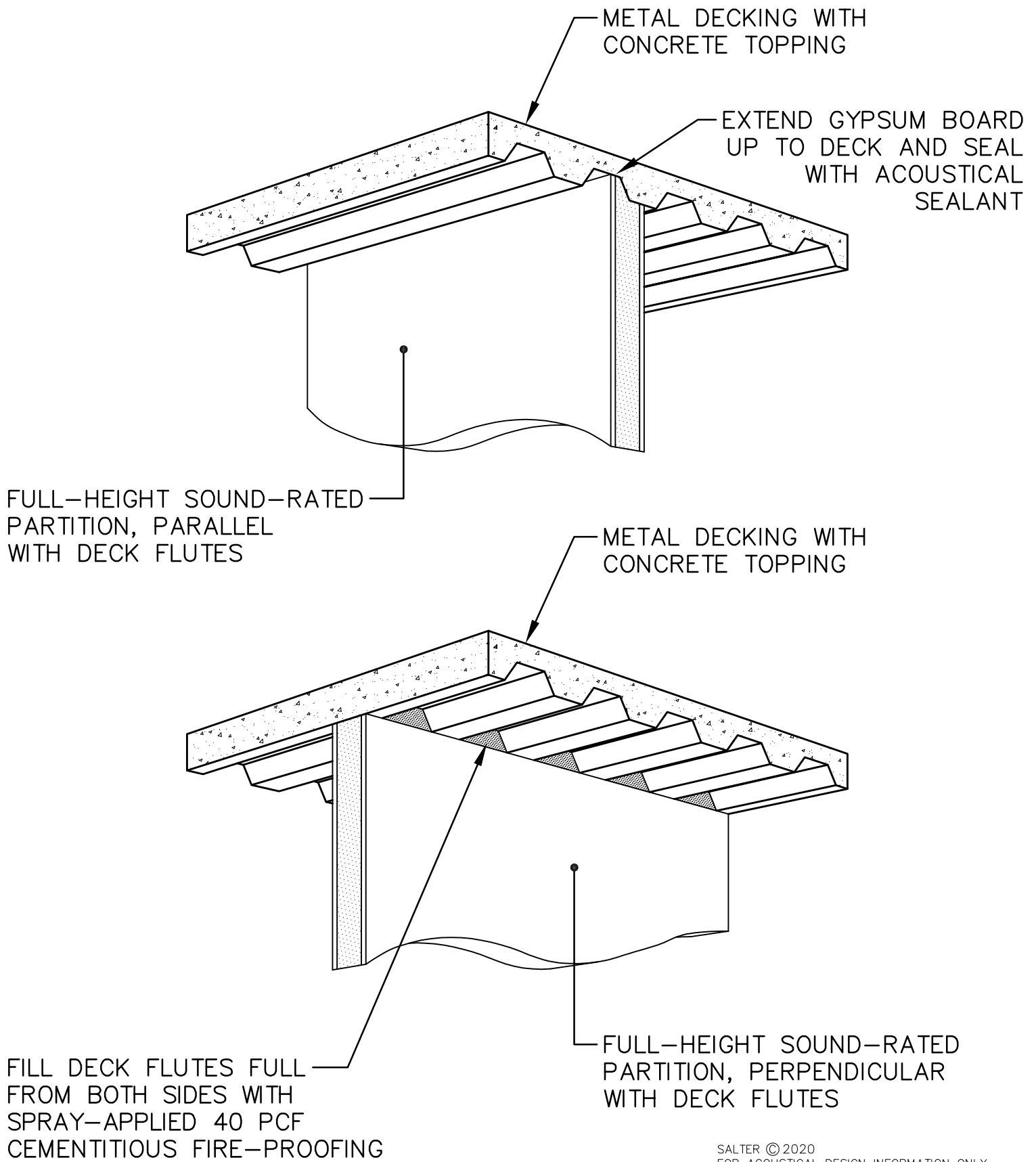
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SOUND-RATED CEILING AND LAY-IN CEILING

FIGURE 1B

1656B
 2.2.1, 4.5

DRS
 03.09.16



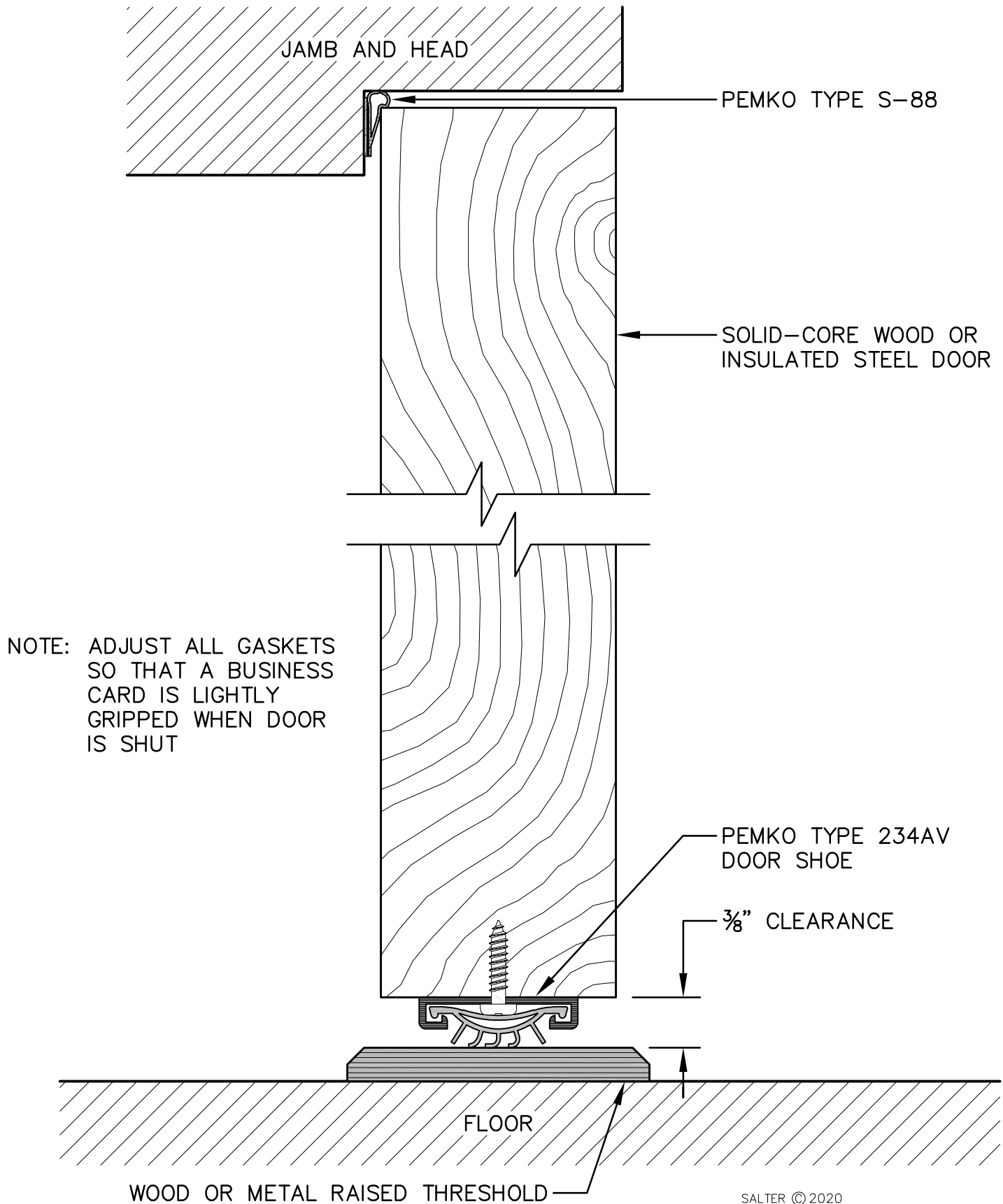
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INTERSECTION OF DECK AND SOUND-RATED PARTITION

FIGURE 2

1977
1.2.2.3

KWG
10.31.02

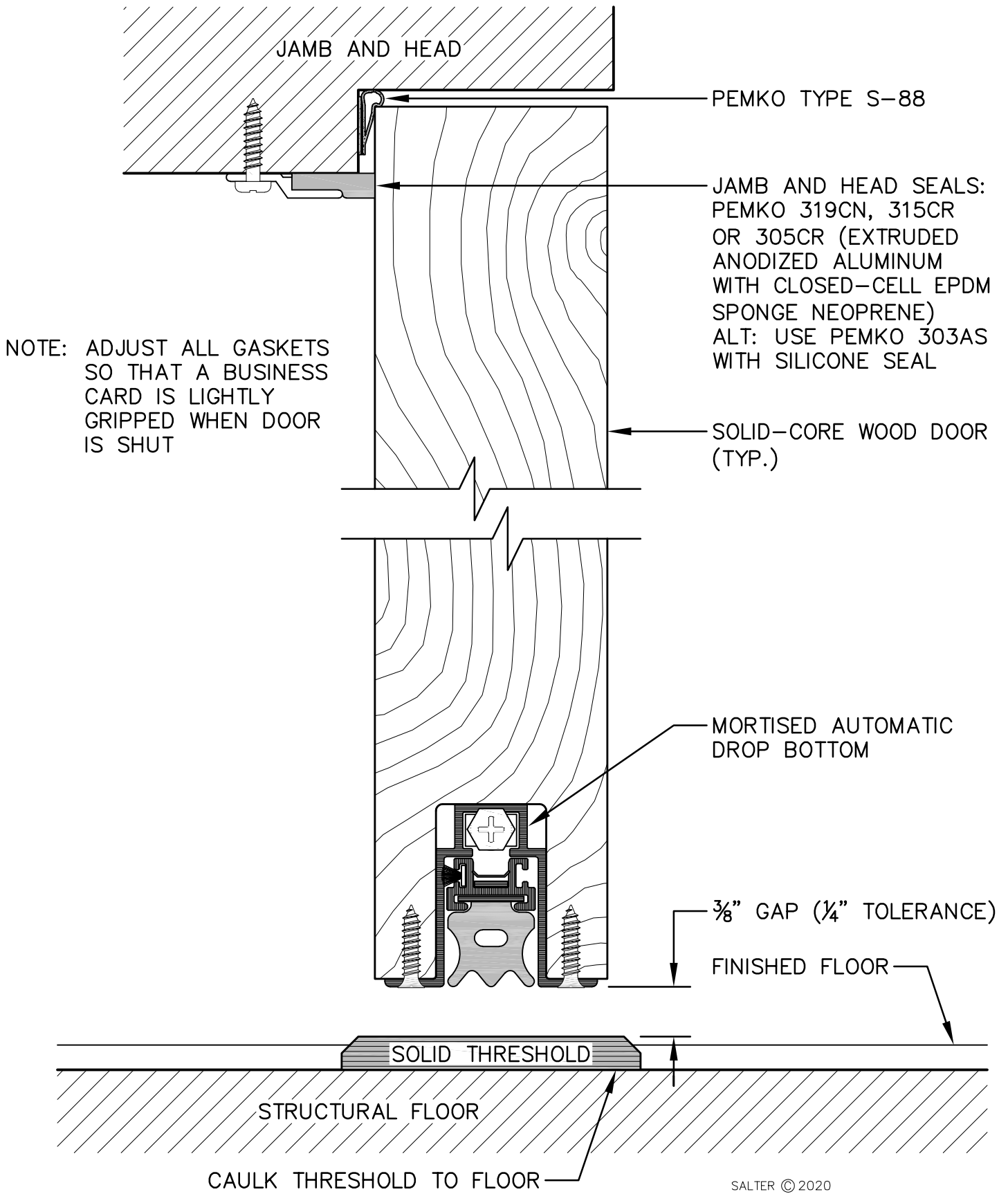


SOUND-GASKETED DOOR

FIGURE 3

56
5.1.1

03.07.14



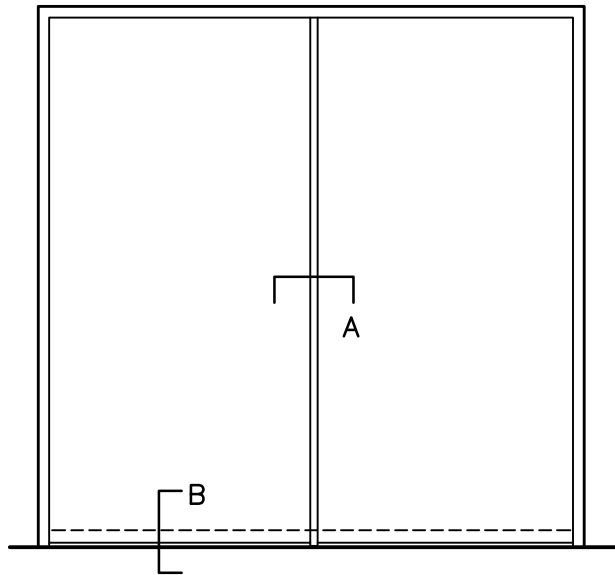
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UPGRADED SOUND-GASKETED DOOR

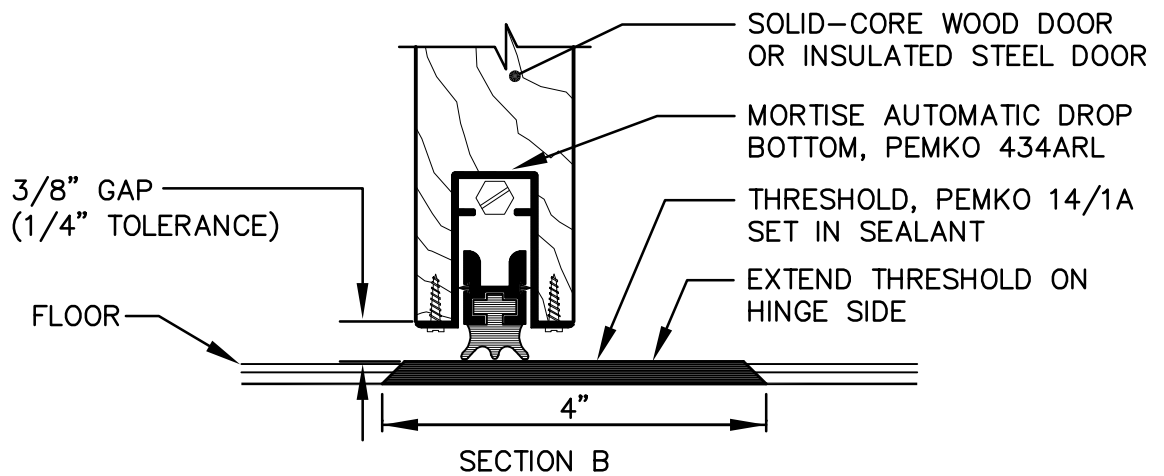
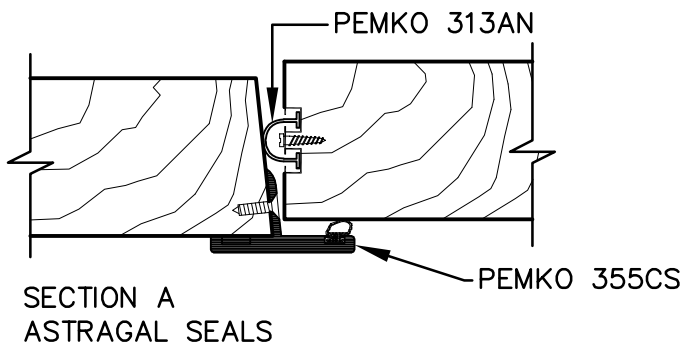
FIGURE 4

1855A
5.1.1

RPA
04.02.14



ASTRAGAL DOOR ELEVATION



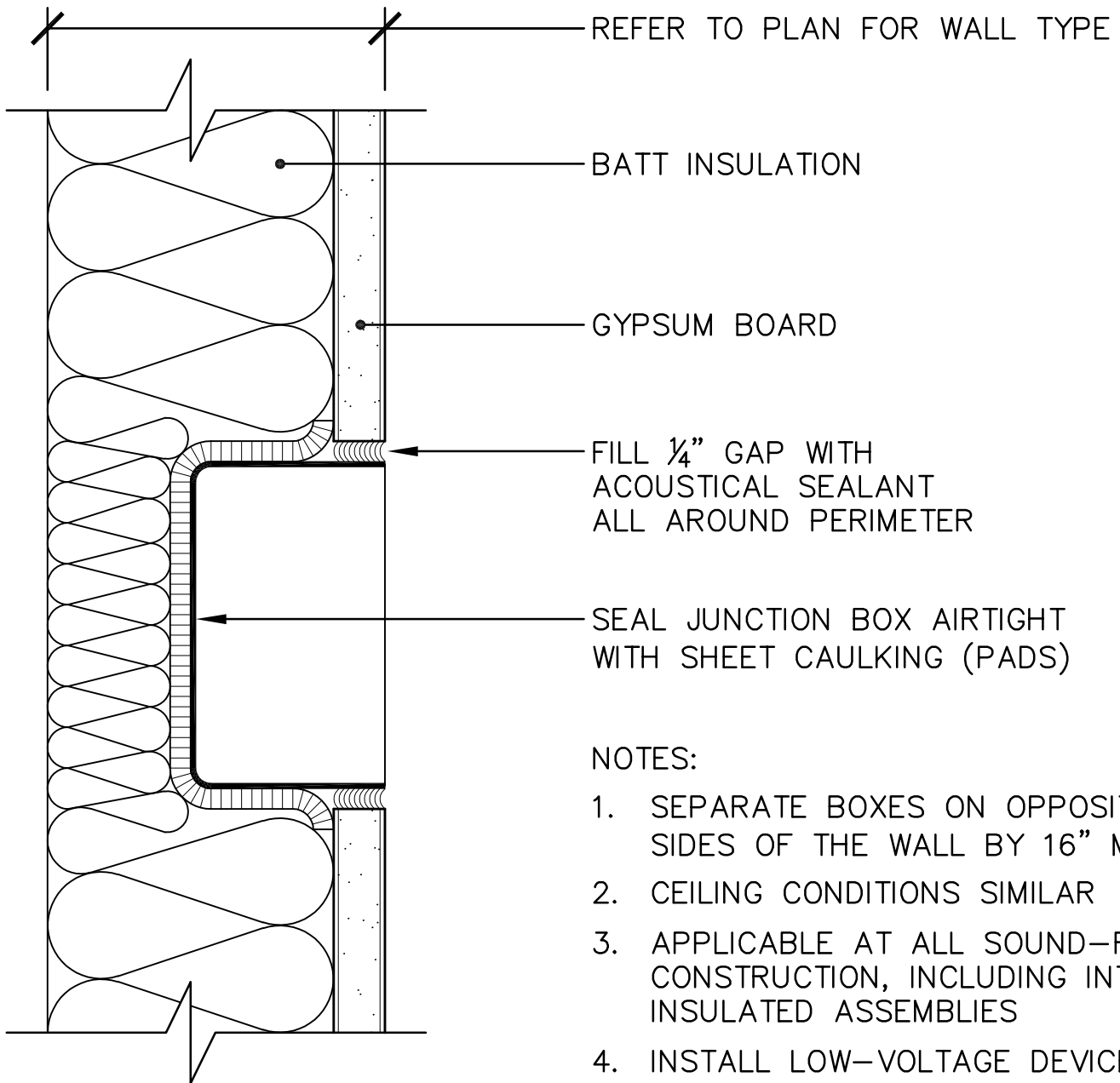
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SOUND-GASKETED DOOR ASTRAGAL

FIGURE 5

1887
5.1.3

DRS
03.15.02



NOTES:

1. SEPARATE BOXES ON OPPOSITE SIDES OF THE WALL BY 16" MIN.
2. CEILING CONDITIONS SIMILAR
3. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION, INCLUDING INTERIOR INSULATED ASSEMBLIES
4. INSTALL LOW-VOLTAGE DEVICES IN BOXES
5. WHERE NEEDED, FIRE-RATED PUTTY PADS MAY BE USED

PADS MANUFACTURED AND DISTRIBUTED BY: LOWRY'S INC.
www.halowry.com

NELSON FSP FIRESTOP PUTTY PADS
 DISTRIBUTED BY: EMERSON INDUSTRIAL
www.emersonindustrial.com

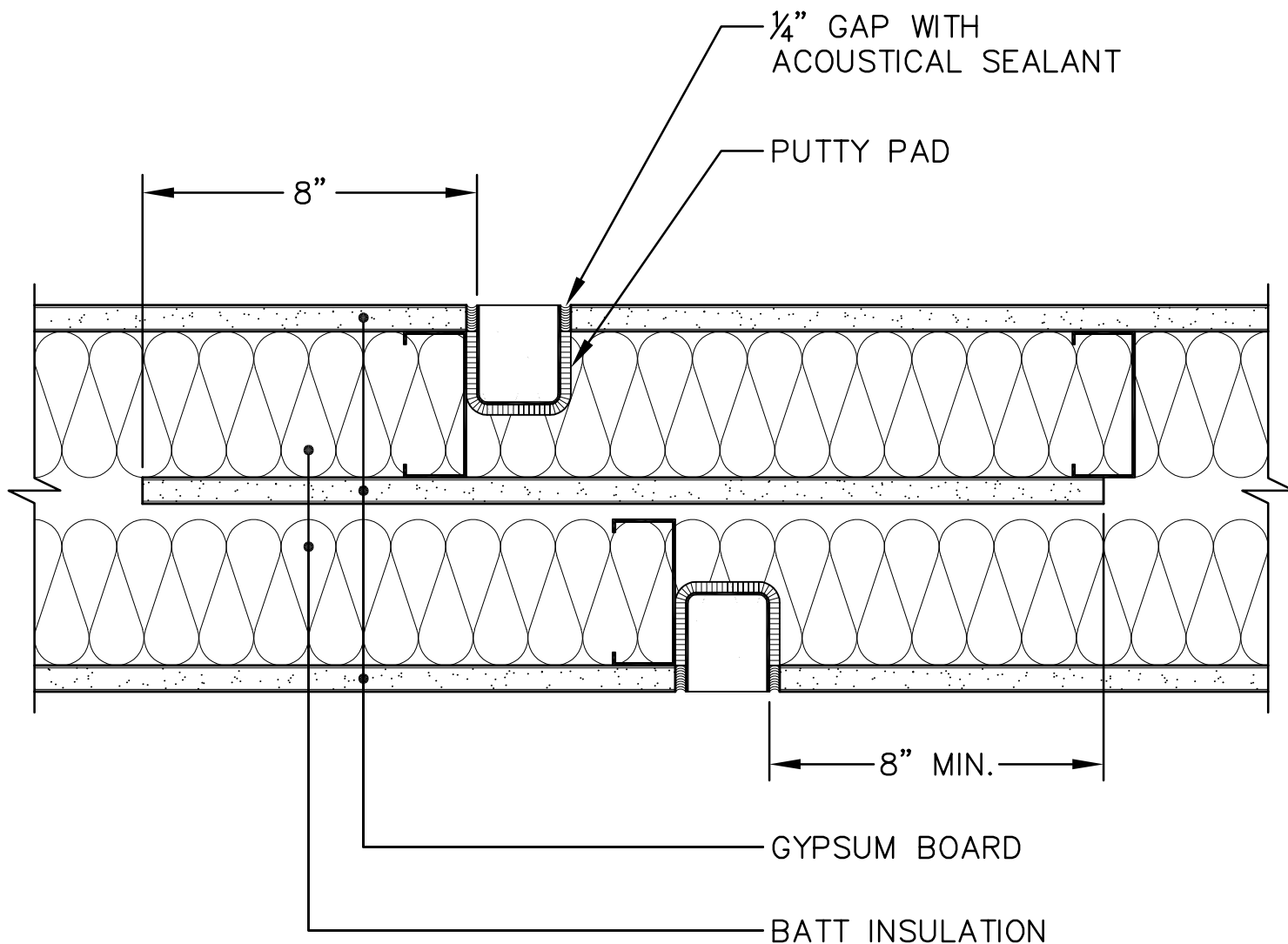
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JUNCTION BOX IN SOUND-RATED CONSTRUCTION

FIGURE 6

49
 3.2.1

EBM
 03.14.17



- NOTES: 1. PANEL TO BE EITHER SHEET METAL OR $\frac{1}{2}$ " MINIMUM GYPSUM BOARD
 2. PANEL TO BE ATTACHED TO ONLY ONE ROW OF STUDS
 3. PANEL TO EXTEND 8" ABOVE AND BELOW OUTLETS
 4. WALL TYPE PER PLANS

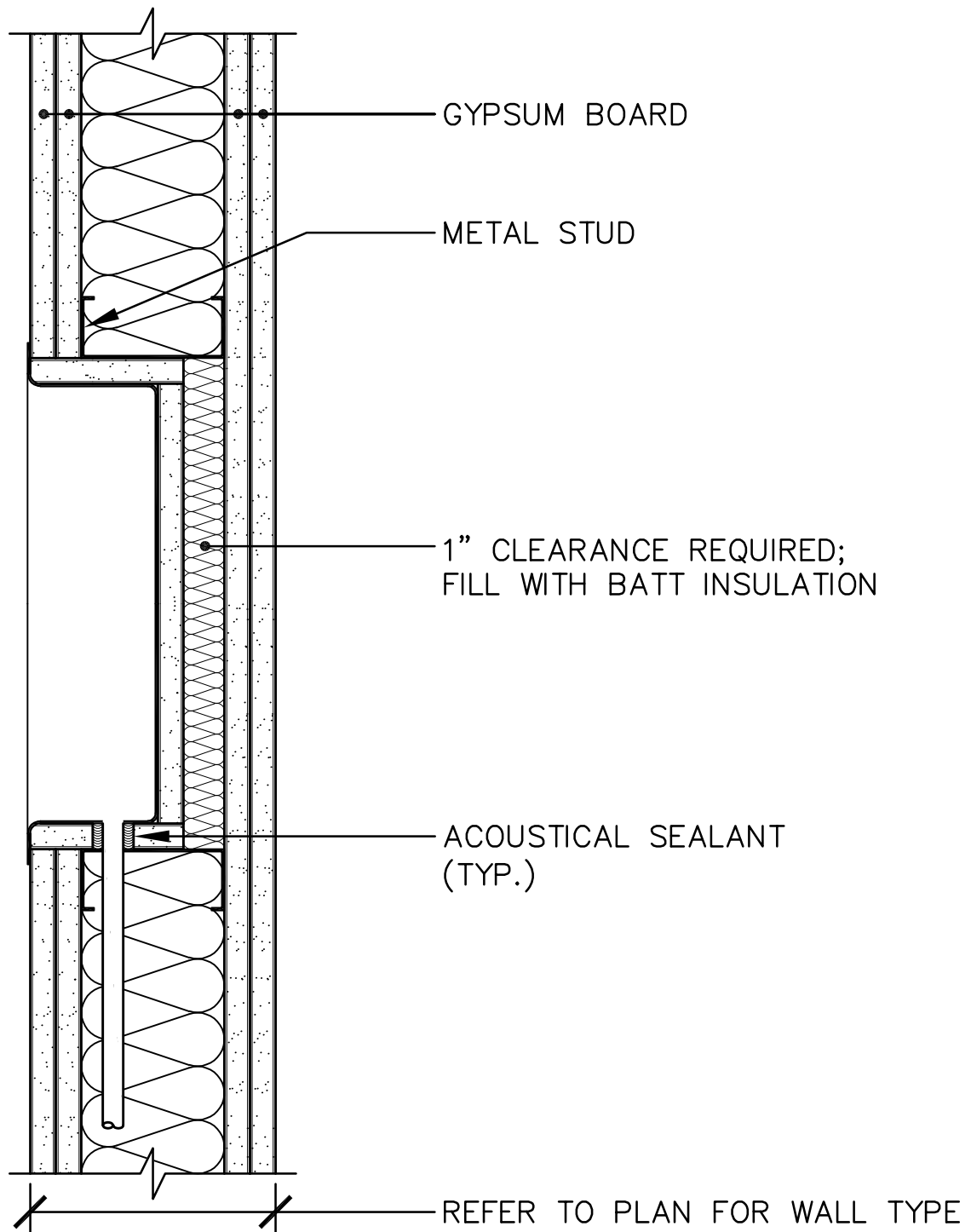
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JUNCTION BOX ISOLATION
 WHERE LESS THAN
 16" SEPARATION

FIGURE 7

145
 3.2.1

EBM
 06.18.12



- NOTES: 1. LINE TOP, BOTTOM, BACK, AND SIDES WITH ONE LAYER $\frac{5}{8}$ " GYPSUM BOARD OR 2 psf SHEET VINYL.
 2. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES.

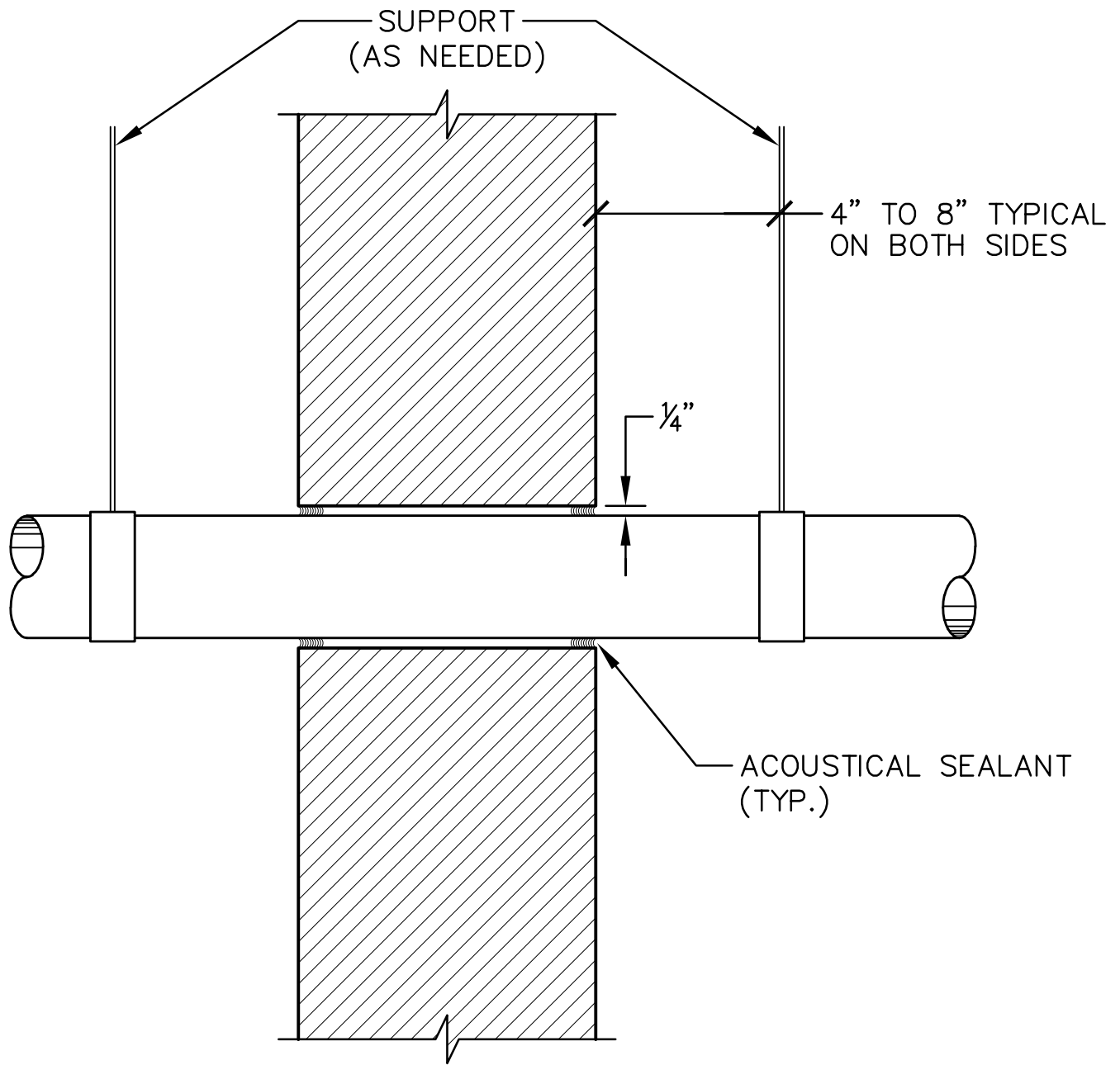
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RECESSED PANELS AND FIXTURES IN SOUND-RATED CONSTRUCTION

FIGURE 8

1317
 3.2.2

DRS
 12.30.02



(PIPE OR CONDUIT LESS THAN 3" DIAMETER)

NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES

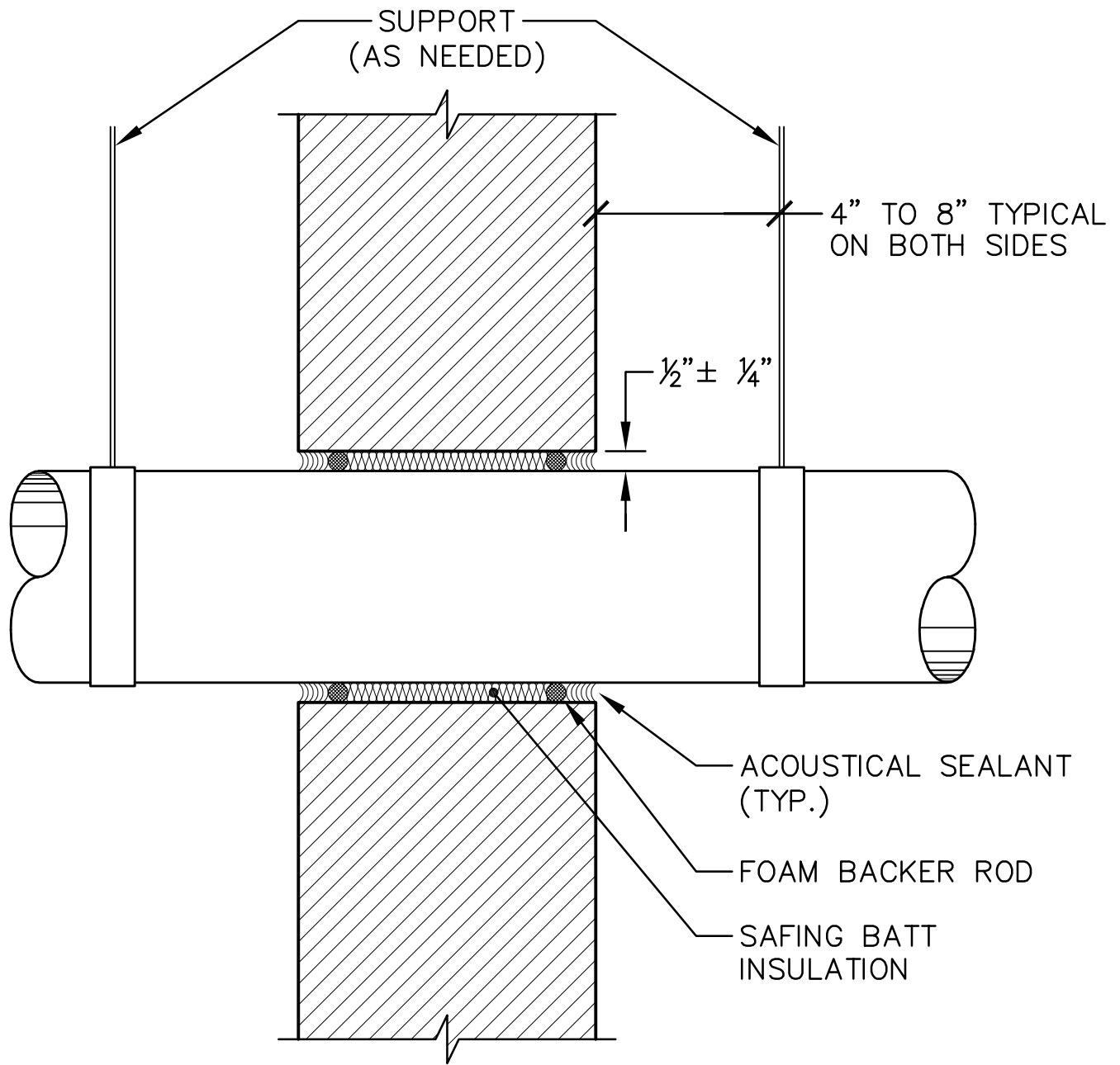
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TYPICAL PIPE OR CONDUIT PENETRATION THROUGH SOUND-RATED CONSTRUCTION

FIGURE 9

182
3.1.1, 3.1.3

EBM
03.14.17



(DUCT, PIPE, OR CONDUIT 3" DIAMETER OR GREATER)

NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION
INCLUDING INTERIOR INSULATED ASSEMBLIES

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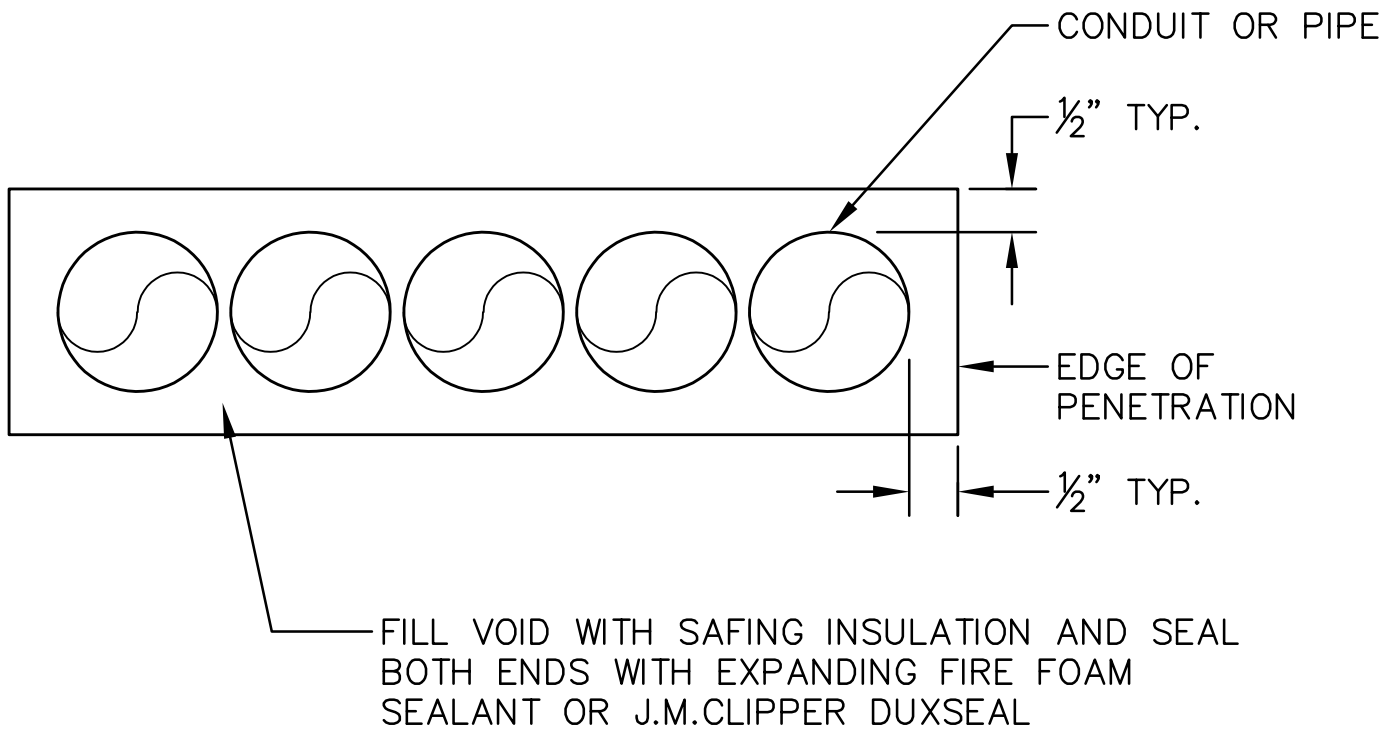
TYPICAL DUCT, PIPE, OR CONDUIT PENETRATION THROUGH SOUND-RATED CONSTRUCTION

FIGURE 10

181
3.1.1, 3.1.2, 3.1.3

EBM
03.14.17

— SOUND-RATED CONSTRUCTION —



NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES.

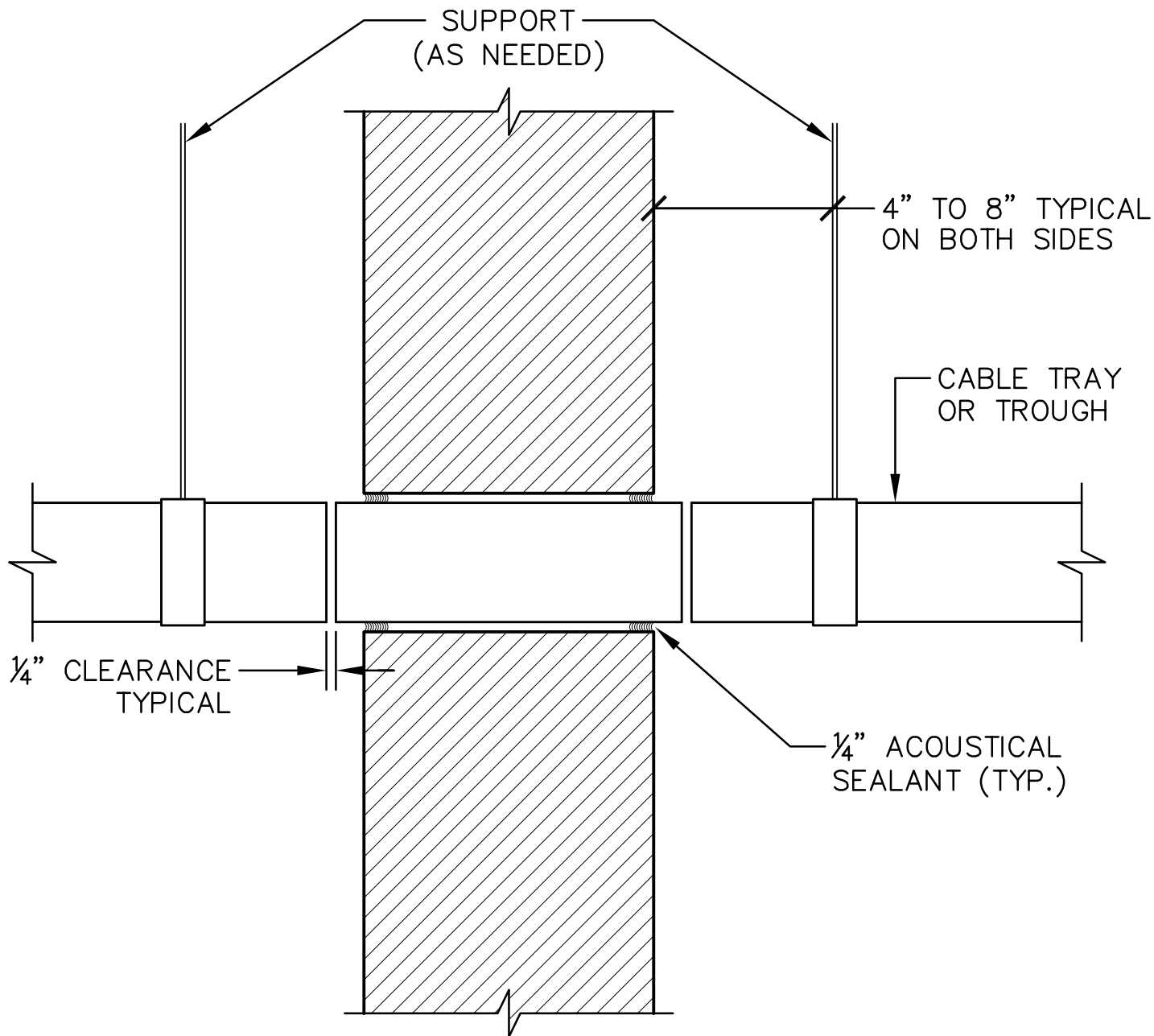
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TYPICAL MULTIPLE PIPE OR CONDUIT PENETRATION THROUGH SOUND-RATED CONSTRUCTION

FIGURE 11

1791
3.1.1, 3.1.3

JCS
10.31.02



VERTICAL SECTION

- NOTES: 1. USE HOLE SAW BIT FOR CIRCULAR PENETRATION
 2. AFTER CABLE PULL IS COMPLETE, FILL CONDUIT WITH SAFING INSULATION AND SEAL BOTH ENDS OF CONDUIT WITH FIRE-STOP FOAM SEALANT OR STI SMOKE 'N' SOUND ACOUSTICAL SEALANT OR SPRAY

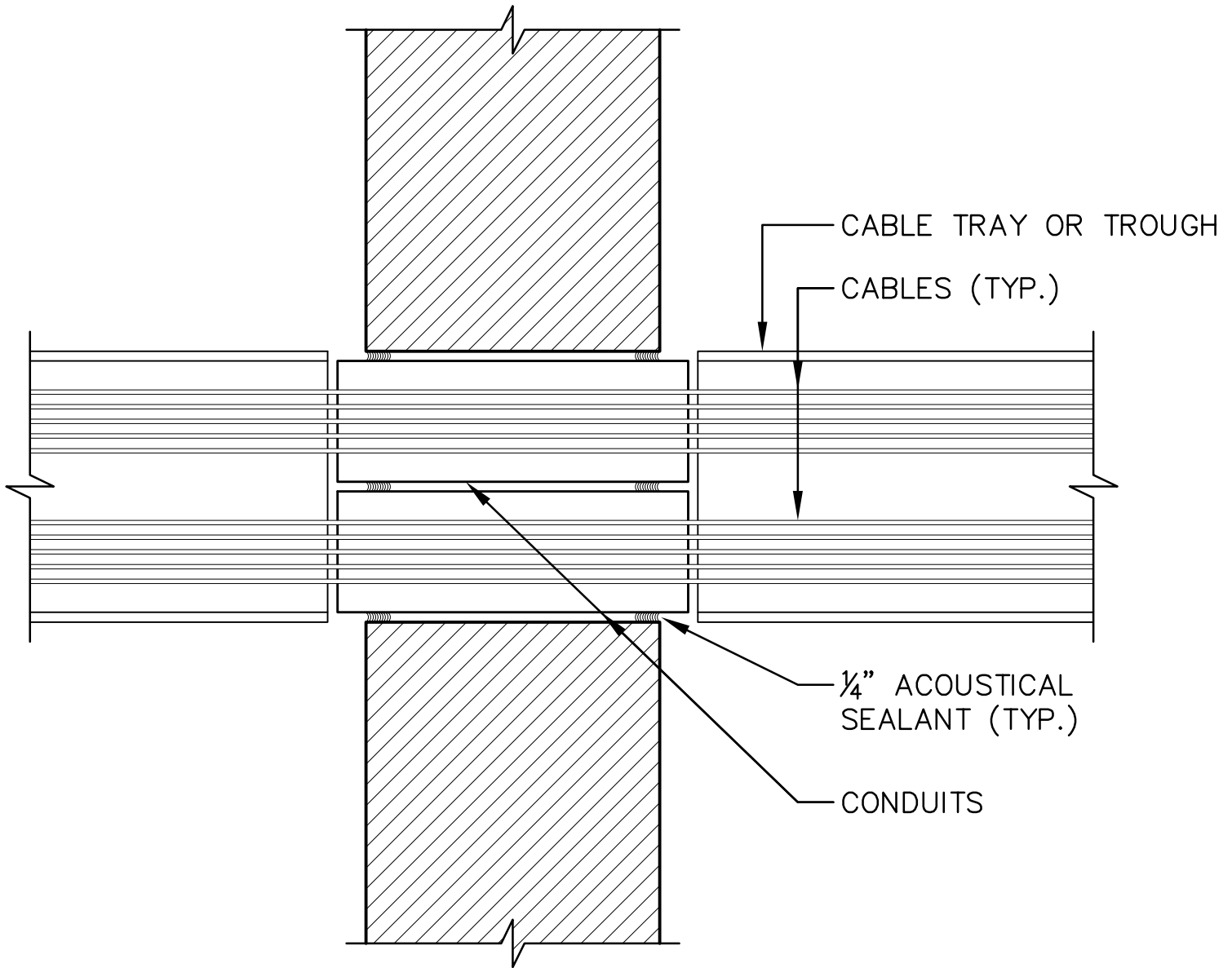
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TYPICAL CABLE TRAY/TROUGH
 AT SOUND-RATED
 CONSTRUCTION

FIGURE 12

1634
 3.1.4

DRS
 03.10.03



PLAN VIEW

- NOTES: 1. USE HOLE SAW BIT FOR CIRCULAR PENETRATION
 2. AFTER CABLE PULL IS COMPLETE, FILL CONDUIT WITH SAFING INSULATION AND SEAL BOTH ENDS OF CONDUIT WITH FIRE-STOP FOAM SEALANT OR STI SMOKE 'N' SOUND ACOUSTICAL SEALANT OR SPRAY

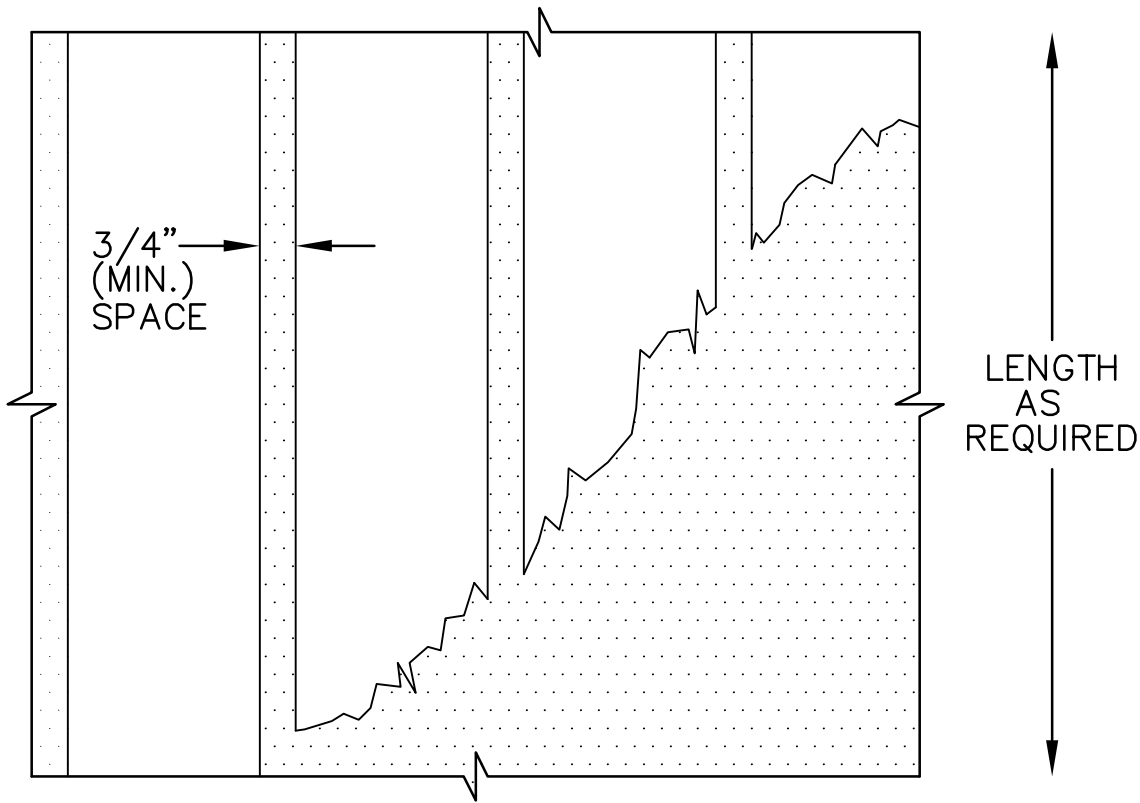
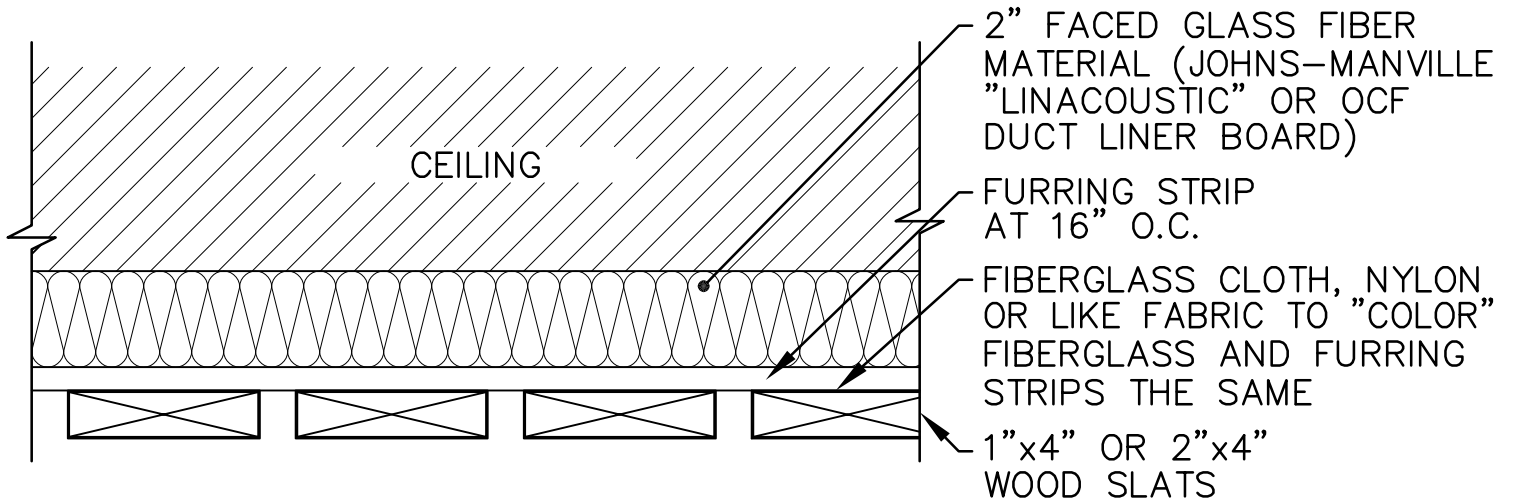
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TYPICAL CABLE TRAY/TROUGH AT SOUND-RATED CONSTRUCTION

FIGURE 13

1634A
 3.1.4

DRS
 03.10.03



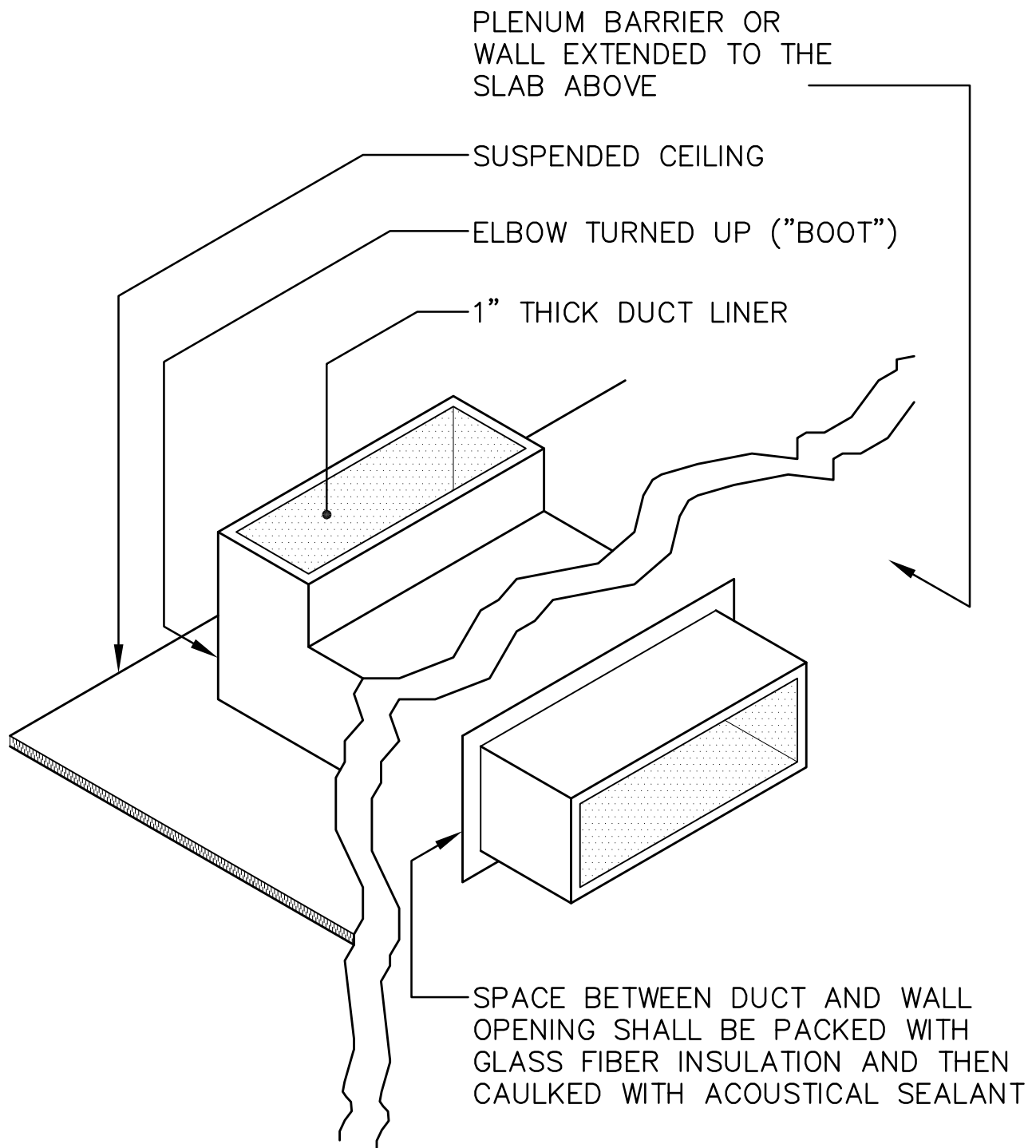
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SOUND-ABSORBING SPACED WOOD SLATS

FIGURE 14

1080
7.1

RVM
10.16.02



NOTE: THE LENGTH OF DUCT AND NUMBER OF ELBOWS IS DEPENDENT ON THE NIC RATING OF THE WALL. WE WILL PROVIDE MORE-DETAILED INPUT AS THE DESIGN PROGRESS.

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CONCEPTUAL RETURN AIR BOOT

FIGURE 15

120
3.1.2

07.24.01

BRIDGING DOCUMENT OUTLINE SPECIFICATIONS

For the

Cupertino Public Library Expansion Cupertino, CA

June 1, 2020

Prepared by



Pier 1 Bay 2
The Embarcadero
San Francisco, California 94111
415.285.9193

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DIVISION 01 – GENERAL REQUIREMENTS

SECTION 01 73 29 CUTTING AND PATCHING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Cutting and patching in floors, walls, and ceilings as required for new construction. Provide all cutting and patching required to complete Work and to:
1. Make its parts fit together properly.
 2. Uncover work to provide for installation of ill-timed work.
 3. Remove and replace defective work.
 4. Remove and replace work not conforming to Contract Documents.
 5. Remove samples of installed work as required for testing.
 6. Provide routine penetrations of non-structural surfaces for installation of piping and electrical conduit.
- B. Related Sections:
1. Section 07 84 00 - Firestopping: Sealing penetrations in fire-rated construction.

1.2 SUBMITTALS

- A. Shop Drawings: Prior to cutting of any structurally or visually significant portion of the Work, obtain written permission for exact location and size of openings from the Library's Representative.
1. Before cutting into any portion of the structure, obtain written permission from the Library's Representative for each hole to be cut or enlarged. Submit shop drawings indicating exact location and size of detail of reinforcement of such openings.
- B. Written Requests:
1. Submit a written request to Library's Representative well in advance of executing cutting or alteration which affects:
 - a. Work by the Library or separate contractor.
 - b. Structural value or integrity of any element of Project.
 - c. Integrity of weather-exposed or moisture-resistant elements.
 - d. Efficiency, operational life, maintenance or safety of operational elements.
 - e. Visual qualities of sight-exposed elements.

2. Request shall include:
 - a. Identification of Project and description of affected work.
 - b. Necessity for cutting or alteration.
 - c. Effect on work of the Library or separate contractors, on structural integrity, or weatherproof integrity of Project.
 - d. Alternatives to cutting and patching.
 - e. Cost proposal, when applicable.
 - f. Written permissions of separate contractors whose work may be affected.
 - g. Description of proposed work including.
 - 1) Scope of cutting, patching alteration, or excavation.
 - 2) Products proposed to be used.
 - 3) Extent of refinishing to be included.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Employ same installer or fabricator to perform cutting and patching work as employed for new construction for:
 1. Weather-exposed or moisture resistant elements.
 2. Sight-exposed finished surfaces.
- B. Standards: For seismic restraints of mechanical systems comply with SMACNA Manual unless more stringent requirements are indicated in Division 23.

1.4 SEQUENCING

- A. Coordinate all cutting and patching work.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Provide patching materials to comply with Specifications and standards for each specific product involved.
- B. Where Specifications and standards have not been provided, provide patching materials and fabrication to match adjacent construction and consistent with quality of Project and intended for commercial construction.
- C. Provide new materials for cutting and patching unless otherwise indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine existing conditions of Project, including elements subject to damage or to movement during cutting and patching.
- B. After uncovering work, inspect conditions affecting installation of products, or performances of work.
- C. Report unsatisfactory or questionable conditions to Library's Representative in writing; do not proceed with work until Library's Representative has provided further instruction.

3.2 PREPARATION

- A. Provide adequate temporary support as necessary to assure structural value or integrity of affected portion of Work.
- B. Protect other portions of Project from damage.

3.3 CUTTING AND PATCHING

A. Cutting:

- 1. Perform cutting, associated structural reinforcing and patching in a manner to prevent damage to other Work, and to provide proper surfaces for the installation of new materials, equipment and repairs. Adjust and fit products to provide a neat installation.
- 2. Cut rigid materials using masonry saw or core drill. Pneumatic tools are not allowed without prior written approval.

B. Patching:

- 1. Patch surfaces to match adjacent surfaces. Finish to nearest intersection. For an assembly, refinish entire unit.
- 2. Patch to achieve security; strength; weather protection, as applicable; efficiency, operational life, maintenance, and safety of operational elements; and to preserve continuity of existing fire ratings.
- 3. Patch surfaces to successfully duplicate undisturbed adjacent profiles, materials, textures, finishes and colors. Use materials which match existing construction.
- 4. Where there is dispute as to whether duplication is successful or has been achieved to a reasonable degree, the Library's Representative's decision will be final.
- 5. Fit work to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- 6. At penetrations of fire rated walls, partitions, ceilings, and floor construction completely seal voids with fire-rated material in accordance with U.L. specifications to full thickness of the penetrated element.

C. Finishing:

1. Finish or refinish, as applicable, cut and patched surfaces to match adjacent finishes. Replace materials which are damaged or abused and cannot be neatly repaired as a result of cutting and patching operations.
2. Refinish entire surfaces as necessary to provide even finish to match adjacent finishes:
 - a. For continuous surfaces, refinish to nearest intersection.
 - b. For an assembly, refinish entire unit.

D. Painting: Paint over complete surface planes, unless otherwise indicated or directed. Over patched wall and ceiling surfaces, paint to nearest cutoff line for entire surface, such as the intersection with adjacent wall or ceiling, beam, or to nearest opening frame, unless otherwise indicated or directed. Painted surfaces shall not appear spotty or touched-up.

END OF DIVISION 01

DIVISION 02 – EXISTING CONDITIONS

SECTION 02 41 00 - SITE DEMOLITION

PART 1 – GENERAL

1.01 SUMMARY

- A. Provide labor, material, and equipment required for demolishing, cutting, removing and disposing of existing construction as designated or required to provide for new work.
- B. Coordinate all work with capping or sealing of existing utilities.
- C. Related Sections:
 - 1. Section 31 10 00 - Site Clearing.
 - 2. Section 31 22 00 - Earth Moving.
 - 3. Section 31 23 33 - Trenching and Backfilling.

1.02 SUBMITTALS

- A. Comply with requirements of Section 01 33 00 – Submittal Procedures, Section 00 72 00 – General Conditions.

1.03 QUALITY ASSURANCE

- A. Comply with the following Standards: American National Standards Institute, Inc. “American National Standard Safety Requirements for Demolition” (ANSI A10.6 and A10.8).
- B. Regulatory Agencies:
 - 1. Comply with rules and regulations of State of California, California Code of Regulations, Title 8, Industrial Relations, Chapter 4, Subchapter 4, “Construction Safety Order.”
 - 2. Comply with applicable local and state agencies having jurisdiction.
 - 3. Comply with governing EPA notification regulations.
 - 4. Comply with applicable state and local regulations regarding dust and noise mitigation during construction.
- C. Secure all required Permits or Certificates for demolition prior to beginning the work.

1.04 PROJECT CONDITIONS

- A. Owner assumes no responsibility for actual condition of the site to be altered.
 - 1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

- B. Disposal of Existing Improvements:
 - 1. All materials removed shall become the property of the Contractor; dispose of these materials outside the project site.
- C. Do not dispose of removed materials to the general public by sale, gift or in any other manner at the project site.
- D. These provisions shall not be construed as limiting or prohibiting sale or disposal of such materials at the Site to duly licensed Contractors or material suppliers, provided materials are removed from construction site by the Contractor.
- E. All removal of debris from the site, including removal of inventory to site of storage, is part of this Contract and shall be done by Contractor's employees and no others.
- F. Salvage:
 - 1. Recycle asphalt concrete pavement and aggregate base where practical.
 - 2. Recycle concrete where practical.
 - 3. Items indicated to be salvaged shall be removed carefully, cleaned, and returned to the Owner. Coordinate with the Owner's Representative.
- G. Protection:
 - 1. Erect and maintain temporary bracing, shoring, lights, and barricades except construction barricades for subsequent new construction, warning signs, and guards necessary to protect public and adjacent improvements to remain, and adjoining property from damage, all in accordance with applicable regulations.
 - 2. Wet down areas affected by this work as required preventing dust and dirt from rising.
 - 3. Existing trees to remain shall be protected by appropriate tree protection measures.
- H. Scheduling:
 - 1. Coordinate with the Owner's Representative in scheduling noisy or dirty work.
 - 2. The Owner's Representative will supply a schedule of days on which no construction will be allowed.
 - 3. Contractor shall take Library schedule into consideration during construction.
- I. Traffic Circulations: Ensure minimum interference with roads, streets, driveways, sidewalks, and adjacent facilities.
 - 1. Minimize obstruction to thoroughfares by first obtaining the required approval or permission of the responsible jurisdiction.
 - 2. Where closing of a vehicular traffic circulation route is necessary, provide adequate directional signs to minimize the potential for confusion. Provide access at all times for emergency vehicles.

PART 2 – PRODUCTS

Not Used.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Where existing conditions conflict with representations of the Construction Documents, notify the Owner's Representative and obtain clarifications. Do not perform work affecting the conflicting conditions until clarification of the conflict is received.

3.01 PREPARATION

- A. Verify that the area to be demolished or removed has been vacated, and adequate space has been made available to perform the work.
- B. Layout saw cutting and coordinate with related work for which saw cutting is required.
- C. Coordinate the shut off of utilities serving the site with the Hospital and the Hospital's Representative.

3.01 DEMOLITION

- A. If known or suspected hazardous materials are encountered during operations, stop operations immediately and notify the Owner's Representative.
- B. Perform work in accordance with ANSI A10.6-1969 unless otherwise noted.
- C. Provide noise and dust abatement as required to prevent contamination of adjacent areas.
- D. Remove all materials not designated as salvage, in their entirety.
- E. If unknown items such as human remains are encountered during operations, stop operations immediately and notify the Owner's Representative.
- F. The Owner's Representative will provide a list of any items to be stockpiled for future use. Stockpile location will be a site on campus determined by the Owner's Representative.

3.01 DEMOLITION AND REMOVAL OF AC PAVEMENT

- A. Saw cut pavement at edge of demolition area.
- B. Break pavement within sawcut and remove pavement and base material to a minimum depth of 8". If existing depth of pavement section is greater than 8", remove entire section to subgrade.
- C. Remove any base material, gravel, and/or or any other non-native soil.

3.01 SAW CUTTING

- A. Make new openings neat.
- B. Take care not to damage existing asphalt pavement to remain in place.
- C. In concrete, sawcut to the nearest joint.

3.01 UTILITY REMOVAL

- A. Where utility removal is shown on the plans, excavate to expose existing utility, demolish and remove section of pipe or conduit indicated. Cap section of pipe or conduit to remain. Mark end

of utility with stake, rebar, or Surveyor's marker.

- B. Included in demolition are any appurtenances, including but not limited to valves, valve boxes, and irrigation system components.
- C. Backfill trench in accordance with requirements of Section 31 23 33 – Trenching and Backfilling.

3.01 DISPOSAL OF DEMOLISHED MATERIALS

- A. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Burning of demolished materials is prohibited.

3.01 FIELD QUALITY CONTROL

- A. The Owner's Representative will accompany the Contractor before and after performance of work to observe physical condition of existing structures or improvements involved.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for demolition shall be measured as a lump sum and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in demolition as shown on the project plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer and architect.
- B. Full compensation for demolition shall be considered as included in the contract price paid per lump sum for demolition and no additional compensation will be allowed therefor.

SECTION 02 41 19 SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes the following:
 - 1. Selective demolition and removal of portions of the existing building, as indicated on the drawings and as required to perform the work.

1.02 DEFINITIONS

- A. Remove: Remove and legally dispose of items except those indicated to be salvaged or to remain.
- B. Remove and Salvage: Items indicated to be removed and salvaged remain the Library's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and bring to Library's designated storage area within the building.
- C. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage. Label and tag items identified to be re-installed in same area from which they are removed. Reinstall items in locations indicated.

- D. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the Library's Project Representative, items may be removed to a suitable, protected storage location during selective demolition and then reinstalled in their original locations.

1.03 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain the Library's property, demolished materials shall become the Contractor's property and shall be removed from the Project site.

1.04 SUBMITTALS

- A. General: Submit each item in this Article for information only.
- B. Schedule of selective demolition activities indicating the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
- C. Inventory of items to be removed and salvaged, if any.
- D. Photographs or videotape, sufficiently detailed, of existing conditions, of adjoining construction and site improvements that might be misconstrued as damage caused by selective demolition operations.

1.05 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: Engage an experienced firm that has successfully completed selective demolition work similar to that required for this Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before starting selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Pre-demolition Conference: Conduct conference at Project site as directed by the Architect or Library's Representative.

1.06 PROJECT CONDITIONS

- A. Library assumes no responsibility for actual condition of buildings to be selectively demolished. Conditions existing at time of inspection for bidding purpose will be maintained by Library as far as practical.
- B. Hazardous Materials: It is not expected that asbestos or other hazardous materials will be encountered in the demolition work. If any materials suspected of containing asbestos or other hazardous materials are encountered, do not disturb the materials. Immediately notify the Library's Project Representative.
- C. Storage or sale of removed items or materials on-site will not be permitted.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that utilities not to be re-used have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent

of selective demolition required.

- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with the intended function or design are encountered, investigate and measure the nature and extent of the conflict. Promptly submit a written report to the Library's Project Representative.
- E. Survey the condition of the building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of the structure or adjacent structures during selective demolition.
- F. Perform surveys as the demolition work progresses to detect hazards resulting from selective demolition activities.

3.02 UTILITY SERVICES

- A. Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
- B. Utility Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services serving building to be selectively demolished.
 - 1. Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal the remaining portion of pipe or conduit after bypassing.

3.03 PREPARATION

- A. Remove dangerous materials before demolition begins.
- B. Conduct demolition operations and remove debris to ensure minimum interference with streets, walks, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from the Library and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- C. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around selective demolition area.
- D. Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent movement, settlement, or collapse of building to be selectively demolished.
 - 1. Strengthen or add new supports when required during progress of selective demolition.

3.04 POLLUTION CONTROLS

- A. Use water mist, temporary enclosures, and other suitable methods to limit the spread of dust and dirt. Comply with governing environmental protection regulations.
 - 1. Do not use water when it may damage existing construction or create hazardous or objectionable conditions.
- B. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 1. Remove debris from elevated portions of building by chute, hoist, or other device

that will convey debris to grade level.

- C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before start of selective demolition.

3.05 SELECTIVE DEMOLITION

- A. Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete work within limitations of governing regulations and as follows:
 1. Proceed with selective demolition systematically. Complete selective demolition work above each floor or tier before disturbing supporting members on lower levels.
 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. To minimize disturbance of adjacent surfaces, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 5. Maintain adequate ventilation when using cutting with torches.
 6. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
 7. Locate selective demolition equipment throughout the structure and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 8. Dispose of demolished items and materials promptly. On-site storage of removed items is prohibited.
 9. Return elements of construction and surfaces to remain to condition existing before start of selective demolition operations.
- B. Demolish concrete and masonry in small sections. Cut concrete and masonry at junctures with construction to remain, using power-driven masonry saw or hand tools; do not use power-driven impact tools.
- C. Remove air-conditioning equipment without releasing refrigerants.

3.06 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly recycle demolished materials to the fullest extent possible. Promptly and properly dispose of non-salvageable and non-recyclable materials. Do not allow demolished materials to accumulate on-site.
- B. Disposal: Transport demolished materials off Library's property and legally dispose of them.

3.07 CLEANING

CUPERTINO PUBLIC LIBRARY EXPANSION

- A. Sweep the building broom clean on completion of selective demolition operation.

END OF DIVISION 02

DIVISION 03 - CONCRETE

SECTION 03 05 00 - CONCRETE FLOOR SEALER

1. Summary: Clear concrete floor sealer on back of house slab surfaces not to receive an applied floor covering (F1B).
2. Concrete floor sealer shall react with concrete surfaces to produce a dense, hydrophobic, insoluble, moisture barrier to seal out contaminants, while hardening and densifying concrete surface.
3. Warranty sealed concrete floors to be free of dusting from abrasion for a period of 10-years from Substantial Completion.
4. Concrete Sealer:
 - a. Material: Lithium silicate densifier; water based, deep penetrating, minimum 15-percent active ingredient solution containing lithium silicate designed to harden, densify, and dustproof concrete surfaces.

SECTION 03 10 00 – CONCRETE FORMWORK

1. Description of work:
 - a. Work under this section includes the furnishing and installing of all form work for cast-in-place concrete, complete, with all related accessories, items and incidentals required.
2. Applicable standards (latest editions apply):
 - a. ACI- American Concrete Institute
 - 1) 301, Specifications for Structural Concrete for Buildings.
 - 2) 318, Building Code Requirements for Reinforced Concrete
 - 3) 347, Recommended Practice for Concrete Formwork.
3. Products:
 - a. Forming Materials:
 - 1) Unless otherwise indicated, materials for formwork shall be wood, steel, fiber or reinforced plastic and of suitable quality to achieve required finishes. Contractor shall conform with considerations and recommendations in ACI-347, Chapter 3, Materials for Formwork.
 - 2) Unless otherwise indicated, contact surfaces in fabricated forms shall be smooth and uniform without warps, bends, dents, sags or irregular absorptive conditions and imperfections which might telegraph or product objectionable irregularities in the exposed concrete finish.
 - 3) Form ties and spreaders shall leave a hole not larger than 7/8-inch nor less than 1/2-inch in diameter in the concrete surface. The portion of the tie remaining in the concrete shall be at least 1-inch back from the concrete surface that will be exposed to view, painted, dampproofed or waterproofed.

4) Chamfer strips: Milled from clear straight-grain lumber, surfaced on all sides. Other material of equal quality may be used only as authorized by Architect.

5) Round Column Forms: Sonotube or equal

b. Form coatings:

1) Form coating and bond breaking materials shall be non-staining and completely compatible with paint materials and other surface treatment materials to be used.

c. Other materials:

1) Membrane: Membrane shall be 15 mil. polyethylene sheet. Lap joints 6".

2) Rock Base: Caltrans Class II, ¾" aggregate max.

3) Expansion Joint Material: Preformed expansion joint filler, nonextruding, resilient bituminous type conforming to ASTM D1751.

4. EXECUTION

a. Construction of forms:

1) The forms shall be constructed smooth, mortar-tight, true to the required lines and grade, and with sufficient strength to resist springing out of shape during the placing and vibrating of concrete. All dirt, chips, sawdust and other foreign matter shall be completely removed before concrete is placed. Forms previously used shall be thoroughly cleaned of all dirt, mortar and foreign matter before being used.

2) Before reinforcing steel is placed in forms, all inside surfaces of the forms shall be thoroughly coated with an approved form sealer. The form sealer shall be of high penetrating quality leaving no film on the surface of the forms that can be absorbed by the concrete or be incompatible with concrete paint.

3) All exposed edges shall be chamfered with triangular fillets ½-inch by ½-inch.

4) Joints in formwork for exposed walls and curbs shall be taped, where directed by Architect.

b. Earth Forms:

1) Earth forms may be utilized where foundation trench walls are stable.

2) Remove loose dirt and debris prior to placement of concrete.

c. Stripping:

1) Forms shall be removed in such manner as to insure the complete safety of the structure. Conform to minimum requirements established by ACI 347 for specific conditions.

- 2) Formwork for walls and other parts not supporting the weight of the concrete may be removed as soon as the concrete has hardened sufficiently to resist damage from removal operations.
- 3) Whenever the formwork is removed during the curing period, the exposed concrete shall be protected and cured by one of the methods specified in Section 03 30 00.

SECTION 03 20 00 – CONCRETE REINFORCEMENT

1. Description of work:
 - a. Work under this Section includes the furnishing and installing of all steel reinforcing for cast-in-place concrete, complete, with all related items, accessories and incidentals required, such as ties, spacing devices inserts and all other material required to complete installation.
2. Applicable standards (latest editions apply):
 - a. ACI- American Concrete Institute:
 - 1) 301, Specifications for Structural Concrete for Buildings.
 - 2) 315, Manual of Standard Practice for Detailing Reinforced Concrete Structures.
 - 3) 318, Building Code Requirements for Reinforced Concrete.
 - b. ASTM- American Society for Testing and Materials, Referenced Standards
 - c. AWS- American Welding Society:
 - 1) D1.4 Structural Welding Code- Reinforcing Steel
 - 2) A5.1 Mild Steel Covered Arc-Welding Electrodes
 - d. CRSI- Concrete Reinforcing Steel Institute:
 - 1) Manual of Standard Practice
 - 2) Recommended Practice for Placing Reinforcing Bars
3. Submittal:
 - a. Shop Drawings of all reinforcing steel shall be submitted for approval.
 - b. Mill Reports for each different heat to be used on the job shall be submitted for approval.
4. Quality Assurance:
 - a. Welders shall be qualified in accordance with AWS D1.4.
5. Products:
 - a. Materials:

- 1) Reinforcing bars: Deformed, new billet-steel bars conforming to ASTM Designation A615, Grade 60 or ASTM A706 unless noted otherwise.
 - 2) Reinforcing mesh: Welded wire fabric conforming to ASTM A185.
 - 3) Tie wires and spirals: ASTM A82.
 - 4) Reinforcement supports
 - I. At reinforcing placed over sand or earth, use precast concrete cubes.
 - II. At reinforcing placed over forms, provide supports with legs which are hot dip galvanized, stainless steel or plastic protected.
 - 5) Mechanical Bar Splice: Xtender by Headed Reinforcement Corp. or equal to develop a minimum of 125% of yield strength of bar.
- b. Fabrication: Except where specified otherwise herein or shown otherwise on the plans, reinforcing steel shall be cleaned, fabricated, placed, tied and supported in accordance with ACI 301 and ACI 315.
6. Execution:
- a. Installation:
 - 1) Reinforcing bars shall be accurately placed and shall be supported and secured against displacement by the use of adequate and proper supporting and spacing devices, tie wire, etc., so that it will remain in its correct location in the finished work. No supporting devices shall be used that will impede the flow of concrete.
 - 2) Do not bend or straighten reinforcing in any manner that will injure the material.
 - 3) Install splices for reinforcing bars in accordance with drawings and ACI 318. Stagger splices in adjacent bars 5'-0".
 - 4) Reinforcing mesh shall be laid flat in place. Lap mesh at sides and ends 12 inches. Wire mesh together at 24 inches on center.
 - b. Clearances:
 - 1) Where not shown otherwise on the drawings, the minimum concrete coverage for steel reinforcement shall be as follows:
 - I. Where concrete is deposited against ground 3"
 - II. Concrete in forms exposed to earth or weather 2"
 - 2) The clear spacing between parallel bars shall be not less than 1-1/2 times the normal diameter of the maximum size aggregate, and in no case less than 1-1/2 inches, except at splices which may be wired together.
 - c. Welding:

- 1) Use ASTM A706 for all Welded reinforcing bars.
 - 2) Perform all welding in accordance with AWS D1.4.
- d. Field Quality Control:
- 1) Contractor shall examine placement of all reinforcement and embedded items prior to inspection by Owner's Testing Agency to ensure the proper clearances have been maintained and that all reinforcement and inserts are firmly tied to resist displacement.
 - 2) The Owner's Testing Agency will inspect
 - I. In-place reinforcing steel
 - II. Field welding of reinforcing steel
 - 3) Notification: Notify the Architect two working days in advance of concrete placement.

SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

1. Description of work:
 - a. Work under this Section includes the furnishings and installing of all concrete work, complete, with all related accessories, items and incidentals required.
 - b. Coordinate installation of all inserts and embedded items required or indicated.
2. Applicable standards (latest editions apply):
 - a. ACI- American Concrete Institute
 - 1) 301, Specifications for Structural Concrete for Buildings.
 - 2) 305, Recommended Practice for Cold Weather Concreting
 - 3) 306, Recommended Practice for Hot Weather Concreting
 - 4) 318, Building Code Requirements for Reinforced Concrete.
 - b. ASTM- American Society of Testing and Materials, Referenced Standards
 - c. ICC- International Code Council:
 - 1) CBC- California Building Code, Current Edition
 - d. ASCE/ SEI – American Society of Civil Engineers:
 - 1) 07 – Minimum Design Loads for Buildings and Other Structures.
3. Submittals:
 - a. Mix Design and Tests:

- 1) Submit mix designs and compressive strength test reports from previous applications for specified types of concrete.
 - 2) Submit test reports for projects within 12 months of this projects contract date.
 - 3) The concrete mixes shall be based on designs of a professional testing laboratory, verified by test.
4. Products:
- a. Materials:
 - 1) General: Materials for cast-in-place concrete shall be set as forth in ACI 301 except as modified herein and as otherwise indicated in project documents.
 - 2) Portland Cement: ASTM C150 Type II modified, with maximum alkali content of 0.6 percent (from only one source).
 - 3) Aggregates: ASTM C33, (from source as approved by the Testing Agency).
 - 4) Water: Clean, Potable and free of injurious materials.
 - 5) Admixtures: Only brand products documented to have had not less than five years of satisfactory performance shall be used. Admixtures containing chlorides shall not be used.
 - I. Air Entraining: ASTM C260
 - 6) Grout: Manufactured pre-mixed. Non-ferrous, non-staining, flowable grout which will not shrink as it cures, 4000 psi @ 7 days.
 - b. Concrete Mix:
 - 1) Ready-Mix Concrete: ASTM C94.
 - c. Proportion and mixture:
 - 1) Proportioning mixtures and production of concrete shall be in accordance with CBC, Section 1905 and shall be in accordance with mix designs submitted by Laboratory and approved by the Owner's Testing Agency.
 - 2) Concrete shall have 3% +/- 1%, air entrainment when approved by Testing Agency.
 - 3) Water reducing admixtures may be used in concrete when approved by Testing Agency. Such admixtures shall not interfere with or reduce required air content dosage of air-entrained concrete.
 - 4) Use a minimum of 5 sacks of cement per cubic yard for all concrete.
 - 5) Concrete Mix Requirements: The following table presents a schedule of elements of concrete, compressive strength in psi after 28-days when tested in accordance with ASTM C39, maximum aggregate and maximum slump, which shall be as follows:

CONCRETE ELEMENT	STRENGTH	AGGREGATE SIZE (inch)	SHRINKAGE
<i>Foundations</i>	3,000	$\frac{3}{4}$ " – 1"	-
<i>Slab-On-Grade</i>	3,000	$\frac{3}{4}$ " – 1"	0.045%
<i>Basement Shotcrete Walls</i>	4,000	$\frac{3}{8}$ "	-
<i>Cast-In-Place Walls</i>	5,000	1"	0.045%
<i>Columns</i>	4,000	$\frac{1}{2}$ "	-
<i>Topping Slab</i>	2,500	$\frac{3}{4}$ "	-

5. Execution:

a. Inspection:

- 1) Areas in which concrete is to be placed shall be inspected by Contractor for defects which would prohibit satisfactory placement of concrete or related miscellaneous items. Such defects shall be corrected prior to commencement of work.
- 2) Concrete shall not be deposited or placed until all forms, reinforcing steel and construction joints have been inspected by Owner's Testing Agency and accepted in advance within the entire extent of the pour. Architect shall be notified 48 hours prior to first pour.

b. Field Quality Control:

- 1) The Owner's Testing Agency will:
 - I. Review concrete mix designs.
 - II. Perform testing in accordance with ACI 318 and CBC Section 1903 and 1905.
 - III. Continuously monitor concrete temperature and inspect concrete placement.
 - IV. Test concrete to control slumps according to ATSM C143.
 - V. Test concrete for required compressive strength in accordance with CBC Section 1905:
 - Make and cure three specimen cylinders according to ATSM C31 for each 150 cubic yards, or fraction thereof, of each class poured at site each day.
 - Retain one cylinder for 7-day test and two for the 28-day test.
 - Number each cylinder 1A, 1B, 1C, 2A, 2B, 2C, etc; date each set; and keep accurate record of pour each set represents.
 - Transport specimen cylinders from job to laboratory after cylinders have cured for 24-hours on site. Cylinders shall be covered and kept at air temperatures between 60 and 80 degrees Fahrenheit.

- Test specimen cylinders at age 7-days and age 28-days for specified strength according to ASTM C39.
- Base strength value on average of two cylinders taken for 28-day test.

2) The Contractor shall:

I. Submit ticket for each batch of concrete delivered to job site. Ticket shall bear the following information:

- Design mix number.
- Signature or initials of ready mix representative.

II. Comply with Title 24, CBC Section 1905.

6. Workmanship:

a. All concrete shall be placed, finished and cured, and all other pertinent construction practices shall be in accordance with the Specifications for Structural Concrete for Buildings (ACI 301) hereby made a part of these specifications.

b. In addition to the requirements of ACI 301, the following shall prevail:

- 1) Concrete shall be placed so that a uniform appearance of surface will be obtained.
- 2) The concrete shall be free of all rock pockets, honeycombs and voids.
- 3) Concrete shall be deposited as nearly as practical in its final position.
- 4) The subgrade shall be slightly moist when the concrete is placed for floor slabs to prevent excessive loss of water from the concrete mix.

c. Vibrators and Vibrating:

- 1) Employ as many vibrators and tampers as necessary to secure the desired results. Minimum: one per each 20 cubic yards of concrete placed per hour.
- 2) Eliminate the following applications:
 - I. Pushing of concrete with vibrator.
 - II. External vibration of forms.
 - III. Allowing vibrator to vibrate against reinforcing steel where steel projects into green concrete.
 - IV. Allowing vibrator to vibrate contact faces of forms.
- 3) Vibrators shall function at a minimum frequency of 3600 cycles per minute when submerged in concrete.
- 4) Supplement vibration by forking and spading along the surfaces of the forms and between reinforcing whenever flow is restricted.

- d. Curing:
- 1) General: Freshly deposited concrete shall be protected from premature drying and excessively hot or cold temperatures and shall be maintained with minimal moisture loss at a relatively constant temperature for the period of time necessary for the hydration of the cement and proper hardening of the concrete.
 - 2) Initial Curing: Initial curing shall immediately follow the finishing operation. Concrete shall be kept continuously moist at least over night. One of the following materials or methods shall be used:
 - I. Ponding or continuous sprinkling.
 - II. Absorptive mat or fabric kept continuously wet.
 - 3) Final Curing: Immediately following the initial curing and before the concrete has dried, additional curing shall be accomplished by one of the following materials or methods:
 - I. Continuing the method used in initial curing.
 - II. Slabs to receive finish flooring materials to be continuously wet cured for 7 days.
 - III. Waterproof paper conforming to "Specifications for Waterproof Paper for Curing Concrete" (ASTM C171).
 - IV. Curing compounds conforming to "Specifications for Liquid Membrane-Forming Compounds for Curing Concrete" (ASTM C309). Such compounds shall be applied in accordance with the recommendations of the manufacturer and shall not be used on any surfaces against which additional concrete or other cementitious finishing materials (such as ceramic tile) are to be bonded, nor on surfaces on which such curing is prohibited by the project specifications.
 - V. Other moisture-retaining coverings as approved.
 - 4) Duration of Curing: The final curing continue until the cumulative number of days or fractions thereof, not necessarily consecutive, during which temperature of the air in contact with the concrete is above 50 degrees F., has totaled 7 days.
 - 5) Formed Surfaces: Steel forms heated by the sun and all wood forms in contact with the concrete during the final curing period shall be kept wet. If forms are to be removed during the curing period, one of the above curing materials or methods shall be employed immediately. Such curing shall be continued for the remainder of the curing period.
- e. Construction Joints
- 1) Joints not shown on the drawing shall be so made and located as to least impair the strength of the structural element and shall be approved by the Owner and Structural Engineer.

- 2) The surfaces of all concrete at all joints shall be thoroughly cleaned and all laitance removed by sandblasting.
 - 3) Concrete surfaces at designated joints shall be roughened to ¼" relief with roto-hammer or similar method.
 - 4) Moisten all joints immediately prior to placement of concrete.
- f. Embedded Items:
- 1) All sleeves, inserts, anchors and embedded items required for adjoining work or for its support shall be placed prior to concreting. Embedded items shall be positioned accurately and supported against displacement. Voids in sleeves, inserts and anchor bolt slots shall be filled temporarily with a readily removable material to prevent entry of concrete into the voids.
- g. Grouting Column Bases:
- 1) The grout shall be mixed and placed in strict accordance with manufacturer's instructions.
 - 2) Care shall be taken in the grouting to insure that there is full bearing between the base plates and the grout.
7. Defective Work: Work considered to be defective may be ordered to be replaced, in which case the Contractor shall remove the defective work at his expense. Work considered to be defective shall include, but not be limited to, the following:
- a. Concrete in which defective or inadequate reinforcing steel has been placed.
 - b. Concrete incorrectly formed, or not conforming to details and dimensions on the drawings or with the intent of these documents, or concrete the surfaces of which are out of plumb or level.
 - c. Concrete below specified strength.
 - d. Concrete containing wood, cloth or other foreign matter, rock pockets, voids, honeycombs, cracks or cold joints not scheduled or indicated on the drawings.
8. Correction of defective work:
- a. The Contractor shall, at his expense, make all such corrections as directed by the engineer.
 - b. Concrete work containing rock pockets, voids, honeycombs, cracks or cold joints not scheduled or indicated on the drawings shall be chipped out until all unconsolidated material is removed.
9. Slab Finish:
- a. Covered interior slabs shall receive a smooth, steel troweled finish. Tolerance shall be 1/8" in 10'-0".
 - b. Slabs under ceramic tile shall receive a roughened finish.

- c. Exposed interior & exterior slabs receive a broom finish as directed. Edges shall be smooth troweled. See drawings for specifics.

SECTION 03 33 00 - ARCHITECTURAL CONCRETE

1. Summary: Architectural cast-in-place concrete walls having as-cast board-formed surfaces.
2. Architectural Concrete Tolerances: Conform to ACI-117.
3. Concrete for Architectural Cast-In-Place Concrete Construction
 - a. Cement: Conform to ASTM C150, C595, C845 or C1157. Use only one source, type and brand. Ensure adequate supply of special cements for construction of architectural concrete. Provide white cement where required to match approved mock-up.
 - b. Water: Concrete mix water shall conform to ASTM C94. Temperature of water for curing shall be not more than 20-deg. F. lower than the concrete surface temperature.
 - c. Aggregates: Shall have a satisfactory service record non-staining and not being disruptively reactive with cement alkalis.
 - 1) Coarse aggregate shall meet the requirements of ASTM C33 or C330.
 - 2) Fine aggregate shall meet the requirements of ASTM C33, C330 or C144.
 - d. Admixtures: Calcium chloride or admixture containing calcium chloride shall not be used.
 - 1) Air-entraining agents shall meet ASTM C260.
 - 2) Water-reducing admixtures shall meet ASTM C494, Type A.
 - 3) Water-reducing and retarding admixtures shall meet ASTM C494, Type D.
 - 4) High-range water reducers (superplasticizers) shall meet ASTM C494, Types F or G.
 - 5) Accelerating admixtures shall meet ASTM C494, Types C and E.
 - 6) Admixtures for flowing concrete shall meet ASTM C1017, Type I or II.
 - 7) Mineral admixtures fly ash shall meet ASTM C618, ground granulated blast-furnace slag shall meet ASTM C989, and silica fume shall meet ASTM C1240. Mineral admixtures shall be compatible with other admixtures.
 - 8) Coloring Admixture/Agents, if required: Color as required to match approved mock-up, meeting ASTM C979 and ASTM C494.
 - e. Concrete:

- 1) Concrete shall match color and surface of the accepted field mock-up.
 - 2) Concrete shall comply with ACI 301, Section 6.
 - 3) For colored concrete, prepare trial batches of the final design mix with specified slump at highest and lowest ambient temperatures anticipated during concrete placement. Adjust color amounts to match accepted field mock-up.
- f. Concrete curing compound shall conform to ASTM C309. The cured surface shall match the accepted mock-up. Solids content shall be between 14- and 22-percent. For colored concrete, use curing compounds recommended by pigment or color admixture manufacturer.
- g. Sheet materials for curing concrete shall be plastic film, wet burlap or burlap-backed plastic film. Do not use for curing colored horizontal architectural concrete.
4. Reinforcement, Tie Wire and Bar Supports:
- a. Reinforcing bars shall conform to ASTM A615 or ASTM A706. Welded wire fabric shall conform to ASTM A185 or ASTM A497.
 - b. Bar supports shall be Class 1, as defined in CRSI MSP-1. Stainless steel for bar supports shall comply with ASTM A943.
5. Formwork for Architectural Concrete:
- a. Design Criteria:
 - 1) Face sheet deflection shall not exceed 1/400 of its span.
 - 2) Maximum rate of placement assumed for design of formwork shall be indicated on the layout drawings.
 - 3) Concrete ties and bolts shall be sized to withstand form design pressures.
 - b. Formwork:
 - 1) Board-Formed Concrete: Material, size, surface finish, edge details as required to match field mock-up panel.
 - c. Form Ties:
 - 1) Form ties shall be factory-fabricated, glass-fiber-reinforced plastic form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
 - 2) Washers shall not be used with snap ties for architectural concrete.
 - 3) Form tie holes shall be patched to match adjacent concrete to match approved field mock-up.
 - d. Form Release Agents: Use only those tested and approved on field mock-up.
6. Architectural Treatments:

- a. Abrasive Material: Use that previously tested and approved on the field mock-up for specified texture. Ensure adequate supply to complete total surface.
- b. Sealers or Coatings: As specified in Section 07 19 00 and 09 92 23.

SECTION 03 61 00 – GROUTED DOWELS IN CONCRETE

- 1. This Section includes:
 - a. Reinforcing bar dowels and threaded bar anchors installed in hardened concrete using epoxy adhesives.
 - b. Reinforcing bar dowels and threaded bar anchors installed in hardened concrete using nonshrink grout.
- 2. Adhesive (Cartridge-Type): Two-component, 100% solids, structural epoxy conforming to ASTM C881, Type IV; Grade 3; prepackaged in cartridges for manually or pneumatically operated caulk gun and automatically mixed at nozzle. ICC Evaluation Service approved for use in cracked and uncracked concrete. Capable of bonding to wet surfaces with less than 10% loss of bond strength.
- 3. Epoxy Adhesive (Bulk-Type): Two-component, 100 percent solids, structural epoxy; insensitive to moisture. ASTM C881, Type IV; Grade 3 nonsag light paste is acceptable for all conditions, Grade 1 or 2 liquid epoxy may be used for downhand applications; Class A, B, or C to suit temperature conditions of substrate.
- 4. Nonshrink Grout: Premixed, nonmetallic, noncorrosive product, complying with ASTM C1107, Class B or C, at fluid consistency. Non-bleeding after mixing at a 27 (plus or minus 3 second) flow, ASTM C939, at 45 to 90 degrees F. Will pass through flow cone 45 minutes after initial mixing without the addition of water.
- 5. General: For anchors installed with cartridge adhesive, conform to requirements of applicable ICC ES Report, including anchor finish and markings.
- 6. Reinforcing Bars: ASTM A615, Grade 60, or ASTM A706, deformed.
- 7. Threaded Rods: Continuously-thread rod; conforming to ASTM A193, Grade B7 (105 ksi yield), unless otherwise designated. Provide with 0.005 millimeter thick electroplated zinc coating, complying with ASTM B633 SC1, unless otherwise designated. Provide with nuts conforming to ASTM A563, Grade DH.
 - a. Hot dip galvanized rods in accordance with ASTM A153, where designated on Drawings or exposed to weather in completed construction.
 - b. Stainless Steel: ASTM F593 (316), CW1 or CW2 Stainless Steel. Provide where indicated on Drawings. Provide with nuts conforming to ASTM F594, Alloy Group 1, 2, or 3.
 - c. Solvent clean rods to remove cutting oil.

END OF DIVISION 03

DIVISION 05 - METALS

SECTION 05 12 00 – STRUCTURAL STEEL

1. DESCRIPTION OF WORK
 - a. Section includes:
 - 1) Structural steel.
 - 2) Reinforcing steel welded to structural steel.
 - 3) Grout for base plates and bearing plates.
 - b. Products furnished but not installed under this section
 - 1) Anchor bolts and steel fabrications cast into concrete are installed under Section 03 30 00.

2. APPLICABLE STANDARDS (LATEST EDITIONS APPLY) UNLESS OTHERWISE NOTED.
 - a. ASTM – American Society for Testing and Materials
 - 1) A6 – Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling and Bars for Structural Use.
 - 2) A36 – Specification for Steel.
 - 3) A53 – Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
 - 4) A123 – Specification for Zinc (Hot Dip Galvanized) Coating on Iron and Steel Products.
 - 5) A153 – Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 - 6) A307 – Specification for Carbon Steel Externally Threaded Standard Fasteners.
 - 7) A325 – Specification for Structural Bolts, Steel, Heat-Treated, 120/105 ksi Minimum Tensile Strength.
 - 8) A354 – Specification for Quenched and Tempered Steel Bolts and Studs and Other Externally Threaded Fasteners.
 - 9) A449 – Specification for Quenched and Tempered Steel Bolts and Studs.
 - 10) A490 – Specification for Heat-Treated Steel Structural Bolts, 150 ksi Minimum Tensile Strength.
 - 11) A500 – Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing.
 - 12) A563 – Specification for Carbon and Alloy Steel Nuts, 1990 Edition.
 - 13) A572 – Specification for High Strength Low Alloy Columbium-Vanadium Steel of Structural Quality.
 - 14) A615 – Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
 - 15) A706 – Specification for Low-Alloy Steel Deformed Bars for Concrete Reinforcement.
 - 16) A780 – Specification for Repair of Damaged Hot-Dip Galvanized Coatings.
 - 17) A913 – Specification for High Strength Low Alloy Shapes of Structural Quality Produced by Quenching and Tempering Process.
 - 18) A992 – Specification for Steel for Structural Shapes for use in Building Framing.
 - 19) C1107 – Specifications for Packaged Dry, Hydraulic-Cement Grout (Nonshrink).
 - 20) F844 – Specification for Washers, Steel, Plain (Flat) Unhardened for General Use.
 - b. AISC – American Institute of Steel Construction

- 1) Specification – Steel Construction Manual
 - 2) Specification – ANSI/ AISC 341 Seismic Provisions for Structural Steel Buildings.
 - 3) Code – Code of Standard Practice for Steel Buildings and Bridges. Articles 3.2 and 3.3 and Section 4 and 9 of AISC Code are superseded by requirements of the General Conditions, Special Conditions and Contract Documents.
- c. AWS – American Welding Society
 - 1) D1.1 – Structural Welding Code.
 - 2) D1.4 – Structural Welding Code – Reinforcing Steel.
 - d. ICC – International Code Council:
 - 1) CBC – Uniform Building Code.
 - e. ASCE/ SEI – American Society of Civil Engineers:
 - 1) ASCE 7, Minimum Design Loads for Buildings and Other Structures
 - f. SSPC – Steel Structures Painting Council's, "Systems and Specifications".
 - 1) SP1 – Solvent Cleaning.
 - 2) SP2 – Hand Tool Cleaning.
 - 3) SP3 – Power Tool Cleaning.
 - 4) SP6 – Commercial Blast Cleaning.
3. DEFINITIONS
- a. Architecturally Exposed Structural Steel (AESS).
 - 1) Structural steel framing exposed to view from the building exterior.
 - 2) Structural steel framing noted as AESS on Drawings.
 - b. Heavy Shapes: ASTM A6, Group 3 shapes with flanges thicker than 1 – ½-inches and Group 4 shapes and Group 5 shapes; welded built-up members with plates exceeding 2-inches in thickness.
 - c. Seismic Critical Weld:
 - 1) Complete penetration welds in beam to column connections, including flange, flange reinforcement, stiffener plate and doubler plate welds.
 - 2) Complete penetration welds of column splices and of columns to base plates.
 - 3) Other complete penetration welds indicated as "Seismic Critical" on Drawings.
4. SUBMITTALS
- a. Shop Drawings:
 - 1) Provisions of AISC Code, Section 4, are superseded by requirements of General Conditions, Special Conditions, and Section 01 33 00 of these specifications.
 - 2) Show size and location of structural members; give complete information necessary for the fabrication of members including cuts, copes, holes, stiffeners, camber, type and size of bolts and welds, surface preparation and finish; show methods of assembly.
 - 3) Indicate welded connections using standard AWS symbols and clearly distinguish between shop and field welds.
 - 4) Identify high strength bolted connections (snug-tight or slip-critical).

- b. Certificates of compliance with specified standards.
 - 1) All steel.
 - 2) Fasteners, including nuts and washers.
 - 3) Welding electrodes.
 - 4) Studs.
 - 5) Nonshrink Grout.
 - 6) Reinforcing steel.
 - 7) Primer Paint.

- c. Certified manufacturer's test reports: Submit to Testing Laboratory for record purposes.
 - 1) All Steel: Tensile tests and chemical analysis, welds. Include all trace elements for steel to receive Seismic Critical Welds.
 - 2) High Strength bolts: As per ASTM A325, Section 1.4; or A490, Section 1.6.
 - 3) Reinforcing Steel: Chemical, tensile and bend tests.
 - 4) Heavy Shapes: Charpy V-Notch

- d. Product Data
 - 1) Welding Electrodes

- e. Welder Certification

- f. Written Welding Procedure Specification (WPS) in accordance with AWS D1.1 requirements for each different welded joint proposed for use, whether prequalified or qualified by testing.
 - 1) Indicate as-detailed configuration and also the maximum and minimum fit-up configurations.
 - 2) Identify specific electrode and manufacturer.
 - 3) List actual values of welding parameters to be used so that clear instruction is provided to welders.
 - 4) Procedure Qualification Record (PQR) in accordance with AWS D1.1 for all procedures qualified by testing.

- g. Samples: As requested by the Testing Laboratory.

- 5. QUALITY ASSURANCE
 - a. Code and Standards: Comply with provisions of following, except as otherwise indicated:
 - 1) AISC "Code of Standard Practice for Steel Buildings and Bridges". Articles 3.2 and 3.3 and Sections 4 and 9 of AISC Code are superseded by requirements of the General Conditions, Special Conditions and Contract Documents.
 - 2) AWS D1.1 "Structural Welding Code – Steel."
 - 3) ANSI/ AISC 360 Specifications for Structural Steel Buildings "Allowable Stress Design and Plastic Steel Design for Structural Steel Buildings."
 - 4) Research Council in Structural Connections – "Specifications for Structural Joints Using ASTM A325 or A490 Bolts".

 - b. Qualifications for Welding Work: Qualify welding procedures and welding operators in accordance with AWS D1.1, "Qualification" requirements.
 - 1) Qualify welders in accordance with AWS D1.1 for each process, position and joint configuration.
 - 2) WPS's for each joint type shall indicate proper AWS qualification and be available where welding is being performed.

- 3) Welders who have not performed the required welding procedure for a period of six or more months shall be requalified.
 - 4) Welders whose work fails to pass inspection shall be requalified before performing further welding.
 - 5) If recertification of welders is required, retesting will be Contractor's responsibility.
- c. Field Measurement: Field verify all existing conditions affecting steel members and steel member placement prior to fabricating and installation of steel members.
 - d. Welding Inspector Qualifications: All welding inspectors shall be AWS certified welding inspectors (CWI) as defined in AWS Standard and Guide for Qualification and Certification of Welding Inspectors, latest edition. Welding inspector's qualifications shall be submitted to the Structural Engineer for approval. Inspectors shall be trained and thoroughly experienced in inspecting welding operations. Comply with AWS section 6.1.3.
6. SCHEDULING AND SEQUENCING
- a. Ensure timely delivery of items to be embedded in work of other sections such as cast-in-place concrete; furnish setting drawings or templates and directions for installation.
7. MATERIALS
- a. General: All steel shall be identified as required by CBC Section 2203.1. Steel which is not properly identified shall be tested to show conformance with requirements of applicable ASTM Standard at Contractor's expense.
 - b. Exposed Surfaces: For fabrication of work that will be exposed to view, use only materials that are smooth and free of surface blemishes including pitting, rust and scale seam marks, roller marks, rolled trade names, and roughness. Remove such blemishes by grinding or by welding and grinding, prior to cleaning, treating and applying surface finishes.
 - c. Steel W Shapes: ASTM A992
 - d. Steel Channels and Angles: ASTM A36; or dual certified ASTM A36/A572.
 - e. Steel Plates and Bars:
 - 1) ASTM A572, Grade 50, unless indicated otherwise.
 - 2) ASTM A36 where designated on Drawings.
 - f. Steel Pipes: ASTM A53, Type S, Grade B.
 - g. Hollow Structural Sections: ASTM A500, Grade B.
 - h. Standard Threaded Fasteners: ASTM A307, Grade A, bolts with ASTM A563 hex nuts.
 - i. High Strength Bolts:
 - 1) ASTM A325, type 1; unless indicated otherwise.
 - 2) ASTM A490 where designated on Drawings.
 - 3) Nuts and washers conforming to AISC Part 7.

- j. Anchor Bolts (unless otherwise indicated on Drawings):
 - 1) 1-inch diameter and smaller bolts: ASTM F1554, Grade 36.
 - 2) Larger than 1-inch diameter bolts: ASTM F1554, Grade 55.
 - 3) Washers: ASTM F844; 5/16-inch minimum thickness.
 - 4) Nuts: ASTM A563, heavy hex.
- k. Anchor Bolts (where designated on Drawings):
 - 1) ASTM F1554, Grade 36, 55, 105, threaded rod; form head with ASTM F436 hardened washer between double ASTM A563, DH, heavy hex nuts.
 - 2) Plate washer: ASTM F844; 1/2-inch minimum thickness.
 - 3) Nuts: ASTM A563, Grade DH, heavy hex.
- l. Welding Materials: AWS D1.1; type required for base metals being welded.
 - 1) Electrodes shall be low hydrogen.
 - 2) Electrodes for "Seismic Critical Welds" shall have a minimum Charpy V-notch toughness of 20 ft-lbs at -20 degrees Fahrenheit.
- m. Shop Primer:
 - 1) Type A Primer: Conforming to federal, state and local v.o.c. regulations; containing no lead or chromates; Tnemec Series 88HS, or approved equal.
 - 2) Type B Primer: Organic zinc-rich urethane; conforming to federal, state and local v.o.c. regulations; Class A coating, Tnemec "90-97 Tneme-Zinc", or approved equal.
- n. Studs
 - 1) Headed Shear Connector Studs; AWS D1.1, Type B; as-welded size as shown on Drawings.
 - 2) General Purpose Studs; AWS D1.1, Type A; as-welded size and configuration as shown on Drawings.
- o. Reinforcing Steel: ASTM A706, deformed.
- p. Nonshrink Grout: Premixed, nonmetallic, noncorrosive product, complying with ASTM C1107, Class B or C, at flowable consistency for 30 minutes for temperature extremes of 45 degrees F to 90 EF.
 - 1) Products: Subject to compliance with requirements, provide one of the following:
 - I. Euco N.S., Euclid Chemical Co.
 - II. Masterflow 928, Master Builders.
 - III. Five Star Grout, U.S. Grout Corp.
 - IV. Sika Grout 212, Sika Corp.

8. FABRICATION

- a. Fabricate structural steel in accordance with AISC Specification and AISC Code.
 - 1) Architecturally Exposed Structural Steel conform to Section 10 of AISC Code.
 - 2) Fabricate joints in heavy shapes in accordance with additional requirements of Section A 3.1(c) of AISC Specification.
- b. Connections: Where connection is not shown, design in accordance with standard practice unless otherwise directed by the Architect.
- c. Drill, not punch, holes centered 6" or less from an edge to be complete penetration welded.

- d. Assembly with High Strength Bolts
 - 1) Construct connections in accordance with CBC, Section 1704 and AISC, using provisions for slip-critical joints, unless snug-tight bolts are indicated on Drawings.
 - 2) Use standard holes, unless otherwise indicated on Drawings.
- e. Assembly with Standard Threaded Fasteners
 - 1) Draw up tight, check threads with chisel or provide approved lock washers or self-tightening nuts.
 - I. Provide beveled washers under bolt heads or nuts resting on surfaces exceeding five percent slope with respect to head or nut.
- f. Welded Construction
 - 1) Examine fit-up of joint for conformance with welding procedure specification. Do not proceed with welding until fit-up is inspected by Testing Laboratory.
 - 2) Weld in accordance with AISC Specification using manual shielded arc method or flux cored arc method in accordance with AWS D1.1. Weld only in accordance with welding procedure specifications (WPS) for joint, which are to be available to welders and inspectors during the production process.
 - 3) Groove welds shall be complete joint penetration welds, unless specifically designated otherwise on Drawings. Groove preparation is at Contractor's option, subject to qualification in accordance with AWS D1.1. Runoff plates shall be in accordance with AWS D1.1; end dams shall not be used.
 - 4) Remove back-up plates for complete joint penetration welds where indicated in Contract Documents or when requested by Testing Laboratory to perform nondestructive testing. Remove at no additional cost to Owner.
 - 5) Complete penetration groove weld Heavy Shapes in accordance with AISC Specification Section J1.5 for tension splices.
 - 6) The following additional requirements apply to "Seismic Critical Welds":
 - I. Use electrodes specified for Seismic Critical Welds.
 - II. At beam flange to column welds, remove back-up plates, back gouge, clean by grinding and back weld with reinforcing fillet, unless Drawings specifically indicate that back-up bar may remain. Do not place reinforcing fillet until Testing Lab has inspected groove weld.
 - III. Cut off runoff plates 1/8-inch from edges and grind smooth (not flush).
 - 7) Weld reinforcing steel to structural steel in accordance with AWS D1.4 using prequalified procedures.
 - 8) Grind exposed welds of Architecturally Exposed Structural Steel smooth and flush with adjacent finished surface.
- g. Column Bases: Finish in accordance with AISC Specification. Lack of contact bearing with column shall not exceed 1/16 inch.
- h. Bearing Plates: Provide for attached or unattached installation under beams, and girders resting on footings, piers, and walls.
- i. Headed Studs: Automatically end weld in accordance with AWS D1.1 and manufacturer's recommendations in such a manner as to provide complete fusion between the end of the stud and steel member.

9. FINISHES

- a. Preparation of Surfaces
 - 1) All surfaces shall be cleaned per SSPC-SP1 "Solvent Cleaning" to remove oil and grease prior to any other surface preparation.

- 2) After fabrication, prepare the following steel surfaces in accordance with SSPC-SP2 "Hand Tool Cleaning":
 - I. Steelwork to be spray-fireproofed.
 - II. Steelwork to be encased in concrete.
 - III. Steelwork to be hot-dip galvanized.
- 3) Treat faying surfaces of slip-critical high strength bolted connections to achieve Class C surface in accordance with AISC 303.

10. SOURCE QUALITY CONTROL

- a. The Testing Laboratory will:
 - 1) Review manufacturer's test reports for compliance with specified requirements.
 - 2) Verify material identification.
 - 3) Inspect high-strength bolted connections as required by CBC Section 1704 for conformance with CBC Chapter 22.
 - 4) Inspect welding as required by CBC Section 1704 in accordance with AWS D1.1. The following should be performed with each weld:
 - I. Verify Welding Procedure Specification (WPS) sheet has been provided and has been reviewed with each welder performing the weld. Welds not executed in conformance with the WPS are rejectable.
 - II. Verify fit-up meets tolerances of WPS and mark joint prior to welding.
 - III. Verify welding consumables per Contract Documents and WPS.
 - IV. Verify welder qualification and identification.
 - V. Verify amperage and voltage at the arc with hand-held meters.
 - VI. Observe preheat and interpass temperatures, weld pass sequence and size of weld bead.
 - 5) For Seismic Critical Welds, inspect removal of back-up and run-off plates, preparatory grinding and execution of reinforcing fillet.
 - 6) Nondestructive test all complete penetration groove welds larger than 5/16 inches by ultrasonic methods for conformance with the weld quality and standard of acceptance of AWS D1.1 for welds subject to tensile stress. Pass sound through the entire weld volume from two crossing directions to extent feasible.
 - 7) Ultrasonically inspect base metal thicker than 1/2 inch for discontinuities behind welds in accordance with ICNO CBC Section 1704.
 - 8) Periodically, inspect and test stud welding as required by CBC Section 1704 in accordance with AWS D1.1; except that test studs shall be subjected to a 90° bend test by striking them with a hammer. Review preproduction testing and qualification, periodically inspect welding and perform verification inspection and testing.

11. EXECUTION

- a. EXAMINATION
 - 1) Examine existing structure to support construction and verify the following:
 - I. Location and elevation of bearings and anchor bolts are correct.
 - II. Other conditions adversely affecting erection of steel are absent.
- b. Do not begin erection before unsatisfactory conditions have been corrected.

12. PREPARATION

- a. Supervise setting of anchor bolts and other embedded items required for erection of structural steel. Be responsible for correct bearing of steel and correct location of anchor bolts.

13. ERECTION

- a. Erect structural steel in accordance with AISC Specification and AISC Code.
- b. Grouting Baseplates and Bearing Plates: Prior to erection, clean and roughen concrete surface beneath baseplate to full 1/4" amplitude; clean bottom surface of baseplate of bond-reducing materials. After columns have been positioned and plumbed, flow nonshrink grout solidly between bearing surfaces to ensure no voids remain. Comply with manufacturer's recommendations for mixing, placing, finishing and curing of grout.
- c. Where erection requires performing work of fabrication on site, conform to applicable standards of Fabrication Article.
- d. Field corrections of major members will not be permitted without the Architect's prior approval.
- e. Gas Cutting: Use of flame cutting torch will be permitted only after the Architect's prior approval and only where metal cut will not carry stress during cutting, stresses will not be transmitted through flame-cut surface and cut surfaces will not be visible in finished work.
 - 1) Make cuts smooth and regular in contour.
 - 2) To determine effective width of members so cut, deduct 1/8-inch from least width at cut edge.
 - 3) Make radius of cut fillet as large as practical, but in no case less than one inch.
 - 4) Do not use flame cutting torch to align bolt holes.
- f. Field Touch-Up Painting: After erection, touch-up or paint field connections and abrasions in shop paint with same paint used for shop painting. Touch up galvanized surfaces in accordance with ASTM A780.

14. CLEANING

- a. After erection, thoroughly clean surfaces to foreign or deleterious matter such as dirt, mud, oil, or grease that would impair bonding of fire-retardant coating, paint or concrete.

15. FIELD QUALITY CONTROL

- a. The owner's Testing Laboratory will:
 - 1) Inspect erected structural steel as required to establish conformity of Work with reviewed shop drawings and Contract Drawings.
 - 2) Inspect high-strength bolted connections as required by ICBC Section 1704 for conformance with CBC Chapter 22.
 - 3) Inspect welding as required by CBC Section 1704 in accordance with AWS D1.1. The following should be performed with each weld:
 - I. Verify Welding Procedure Specification (WPS) sheet has been provided and has been reviewed with each welder performing the weld. Welds not executed in conformance with the WPS are rejectable.
 - II. Verify fit-up meets tolerances of WPS and mark joint prior to welding.

- III. Verify welding consumables per Contract Documents and WPS.
 - IV. Verify welder qualification and identification.
 - V. Verify amperage and voltage at the arc with hand-held meters.
 - VI. Observe preheat and interpass temperatures, weld pass sequence and size of weld bead.
- 4) For Seismic Critical Welds, inspect removal of back-up and run-off plates, preparatory grinding and execution of reinforcing fillet.
 - 5) Nondestructive test all complete penetration groove welds larger than 5/16 inches by ultrasonic methods for conformance with the weld qualify and standard of acceptance of AWS D1.1 for welds subject to tensile stress. Pass sound through the entire weld volume from two crossing directions to extent feasible.
 - 6) Periodically, inspect and test stud welding as required by CBC Section 1704 in accordance with AWS D1.1; except that test studs shall be subjected to a 90° bend test by striking them with a hammer. Review preproduction testing and qualification, periodically inspect welding and perform verification inspection and testing.

SECTION 05 12 10 – ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

- 1. This Section includes requirements regarding features affecting the appearance of Architecturally Exposed Structural Steel (AESS), which are additional to the requirements of Division 05 Section, “Structural Steel Framing”.
- 2. Architecturally Exposed Structural Steel (AESS): Structural steel components and connections, exposed to view in completed construction, and designated as AESS on drawings.
- 3. Mockups:
 - a. After shop drawings and product data are approved, and at least four weeks prior to the start of fabrication, mockup the following items to demonstrate aesthetic effects as well as qualities of materials and execution:
 - 1) List Items.
 - b. For shop fabricated items, mockups can be constructed and maintained at shop, subject to approval of Owner’s Representative. Where mockups demonstrate fabrication or erection on site, mockup shall be constructed on site or other location acceptable to Owner’s Representative.
 - c. Mock-ups shall be full-size pieces.
 - d. Finish exposed surfaces with specified finishes, including finish painting system.
 - e. Obtain approval of mock-ups before starting fabrication of final units.
 - f. Maintain mock-ups during construction in an undisturbed condition as a standard for judging the completed work. Remove mockup upon completion and acceptance of Work.
- 4. Use special care in handling to prevent twisting or warping of AESS members.
- 5. Weld tabs for erection, temporary bracing, and safety cabling only at points concealed from view in the completed structure.

6. Where prime painted items cannot be finish painted after erection, allow for finish painting prior to erection.
7. Conform to requirements Division 05 Section, "Structural Steel Framing" and additional requirements of this Section.
8. Exposed Surfaces: Use materials that are smooth and free of surface blemishes including pitting, rust and scale, seam marks, roller marks, rolled trade names, and roughness. Remove such blemishes by grinding or by filling and grinding, prior to cleaning, treating, and applying surface finishes.
9. High-Strength Bolts, Nuts, and Washers: Heavy hex heads and nuts; hardened washers under nuts [Twist-off bolts with rounded heads and heavy hex nuts; hardened washers under nuts].
 - a. Finish: Plain, Galvanized for exterior exposure.
10. Primer Paints: Primer paints shall comply with all applicable regulations for VOC, lead and chromate levels.
11. Compatibility: Contractor shall confirm that proposed shop primers are compatible with intermediate and finish coats specified in Division 09.
12. Type A Primer: High solids, rust-inhibitive universal modified alkyd primer for ferrous metals. 42 Series Maktek by R.J. McGlennon Co., Series 10 by Tnemec, or approved equal.
13. Type B Primer: Zinc-rich urethane. Tnemec "90-97 Tneme-Zinc", PPG Industries "Aquapon Zinc-Rich Primer 97-670"; Carboline "Carboline 621", or approved equal.
14. Galvanizing Repair Paint: High-zinc-dust-content paint for galvanizing welds and repair-painting galvanized steel, with dry-film coating not less than 90-percent zinc dust by weight.
15. Fabrication: Conform to requirements Division 05 Section, "Structural Steel Framing" and additional requirements of this Section.
16. Fabricate and assemble AESS in the shop to the greatest extent possible. Locate field joints in AESS assemblies at concealed locations or as approved by the Owner's Representative.
17. Cut surfaces shall be deburred and ground smooth; soften sharp edges.
18. Fabrication Tolerances:
 - a. Fabricate AESS to one half the tolerances for common structural steel, in accordance with AISC 303, Section 10.
 - b. Curved Members: Member fabricated to a final curved shape shall be fully shaped in the shop and tied during shipping to prevent stress relieving. Distortion of the web or stem, and of outstanding flanges or legs of angles shall be visibly acceptable to the Owner's Representative from a distance of 20 feet under in-use lighting condition as determined by the Owner's Representative. Tolerances for the vertical and horizontal walls of rectangular HSS members after rolling shall be the specified dimension, plus or minus 1/2 inch.

- c. Joint Gaps: Maintain a uniform gap.
 - 1) 1/8 inch \pm 1/32 inch where pieces are within reach to touch.
 - 2) 1/4 inch \pm 1/8 inch where pieces can be viewed in close proximity (less than 20 feet).
 - d. Copes and Blocks: Maintain a uniform gap of 1/8 inch \pm 1/32 inch.
 - 1) 1/8 inch \pm 1/32 inch where pieces are within reach to touch.
 - 2) 1/4 inch \pm 1/8 inch where pieces can be viewed in close proximity (less than 20 feet).
19. Welds:
- a. Assemble and weld pieces by methods that will maintain alignment of members without warp exceeding the tolerances of this section.
 - b. Welds shall be uniform in size and profile.
 - c. At welded connections that are exposed to weather, provide continuous seal welds at all edges. At open ends of hollow structural sections, seal with minimum 3/16-inch thick closure plates.
 - d. Butt welds shall be made flush to the surfaces each side (within plus 1/16 inch tolerance), filled, and ground smooth.
 - e. Use weld types that do not require backing bars or access holes to extent practical. Remove all fabrication aids and repair surfaces by welding and grinding.
 - f. Fill all weld access holes and finish flush with adjacent surfaces. Fill with metal, except where epoxy fillers are acceptable to Owner's Representative.
 - g. Remove all weld spatter.
20. Surface Preparation:
- a. Ease all corners of plates and shapes that are within reach to touch or are scheduled to receive Type B primer to a uniform 1/16-inch chamfer.
 - b. After fabrication, prepare steelwork to be prime painted in accordance with SSPC-SP6, "Commercial Blast Cleaning".
21. Prime Painting:
- a. Immediately after surface preparation, apply one coat of primer to steel surfaces unless otherwise noted. Use painting methods that result in full coverage of corners, and edges.
 - b. Use Type B primer applied at 3.0 mils minimum dry film thickness on exterior steelwork.

- c. Use Type A primer applied at 2.5 mils minimum dry film thickness for interior steelwork.
 - d. Do not paint the following surfaces:
 - 1) Surfaces to be embedded in concrete, except initial two inches.
 - 2) Faying surfaces of high-strength bolted connections painted with Type A primer.
 - 3) Surfaces to be field welded.
22. Hot Dip Galvanizing:
- a. Hot-dip galvanize items, where indicated on Drawings. Hot-dip galvanize all fasteners which connect galvanized components, except where stainless steel fasteners are designated.
 - b. Galvanize members and fabrications in accordance ASTM A123. Provide finish within the range of surface texture and color presented in the mock-ups.
 - c. Galvanize bolts, nuts, and washers in accordance with ASTM A153.
23. The Contractor shall prepare site mock-ups of representative sections of fabricated steel for Owner's Representative's review. In addition, Owner's Representative will visit fabrication plant to view items after fabrication for imperfections that might result in rejection of the appearance of the member.
- a. Welding Filler Material: Conform to requirements of AWS D1.8, Section 6.3; subject to meeting the CVN toughness and elongation of filler material used for fabrication of tested assemblies
 - b. Debonding Agent: Manufacturer's standard; demonstrated suitable to maintain separation of steel core and grout encasement when subjected to a minimum of 30 cycles of inelastic yielding at 2.0 percent strain; resistant to aging effects for a life cycle of 50 years.
 - c. Fill Material: Manufacturer's standard cementitious grout; demonstrated suitable for function as a confining in-fill material by subassemblage qualification testing.
 - 1) Grout shall have a minimum compressive strength of 3500 psi at 28 days (ASTM C109).
 - d. Shop Primer:
 - 1) Type A: Manufacturer's standard zinc-rich rust preventative primer, free of lead and chromates.

SECTION 05 31 00 – STEEL DECKING

1. DESCRIPTION OF WORK

- a. Work under this section includes the provision of steel decking as indicated in Contract Drawings with directly attached accessory items as noted or required for complete installation. Accessory items include but are not necessarily limited to

following:

- 1) Closure strips.
- 2) Vent Tabs.

2. APPLICABLE STANDARDS (LATEST EDITIONS APPLY)

- a. ASTM - American Society for Testing and Materials (Referenced Standards)
- b. ICC - International Code Council
 - 1) CBC – California Building Code
- c. ASCE – American Society of Civil Engineers
 - 1) ASCE 7 – Minimum Design Loads for Buildings and Other Structures
- d. AISI - American Iron and Steel Institute.
 - 1) Specifications for the Design of Light Gauge Cold Formed Steel Structural Members
- e. SDI - Steel Deck Institute
 - 1) Steel Roof Deck Design Manual
- f. AWS - American Welding Society
 - 1) Welding Structural Code-Sheet Steel

3. SUBMITTALS

- a. Manufacturer's literature describing products.
- b. Samples: Only as requested.
- c. Shop Drawings: Show lapping, type, location and sequence of welds. Show large scale details of connections, methods of attachment and accessory items.
- d. Certificates:
 - 1) Certify that materials meet requirements specified.

4. QUALITY ASSURANCE

- a. Welders Qualifications:
 - 1) Welders shall be qualified for horizontal, vertical, and overhead positions in accordance with AWS D1.1.
 - 2) Welders shall perform welds to meet the following requirements:
 - I. One Inch Long (minimum) Wide at Side Joint: Average ultimate strength, 3200 pounds; minimum one out of three tests, 2500 pounds.
 - II. 3/4-Inch Diameter Plug Welds: Average ultimate strength, 4200 pounds; minimum one of three tests, 4000 pounds.

5. PRODUCT DELIVERY, STORAGE AND HANDLING

- a. Deliver, store and handle decking in manner to prevent damage or deformation.
- b. Discharge materials carefully, store on platform or pallets, and cover with tarpaulins or other suitable weather tight covering. Do not dump onto ground.
- c. Do not overload decking during construction period and do not use decking for storage or working platform prior to welding in position.

6. JOB CONDITIONS

- a. Provide the Owner's Testing Agency with free access to places whether on or off the job site where materials are stored or fabricated, to places where equipment is stored or serviced, and to job site during times of installation.
- b. Sequencing, Scheduling: Notify the Architect in sufficient time prior to fabrication, field welding or installation to permit testing and inspection without delaying work.

7. STEEL DECKING TYPES

- a. General Requirements:
 - 1) Steel decking shall be designed in accordance with SDI unless specifically noted otherwise.
 - 2) Section design properties shall be computed in accordance with applicable requirements of AISI.
 - 3) Steel decking shall be ICC approved for lateral shear resistance.
- b. By Verco Manufacturing Company or equal product. See Contract Drawings for gauge, configuration and section properties.

8. MATERIALS

- a. Sheet Steel: ASTM A446, Grade A, hot-dip galvanized in accordance with ASTM A525, Regular Type, Coating Designation G60, Exterior Type Coating Designation G90.
- b. Miscellaneous Steel Shapes: ASTM A36.
- c. Touch-Up Paint: For abraded galvanizing: Zinc oxide or zinc dust primer for galvanized metal.
- d. Welding Electrodes: In accordance with AWS.

9. FABRICATION

- a. Preparation:
 - 1) Coordinate with other work supporting, contacting or adjoining metal decking and verify requirements for cutting out, fitting, and attaching.
 - 2) Verify dimensions and locations at site whenever construction progress permits.
- b. General Requirements:
 - 1) Fabricate in accordance with SDI unless specifically noted otherwise.
 - 2) Shop- or field-cut units to fit around openings, along building perimeter, and around columns.
 - 3) Provide in lengths to be continuous for not less than three spans and to rest on minimum of four supports where structural steel layout permits.
- c. Closure Strips: Provide for installation at ends, edges and round openings as required to prevent leakage of concrete.
- d. Vents: Provide vent tabs at decks with insulating and conventional concrete fills.

10. FINISHES

- a. Galvanizing: Where items have not been fabricated from galvanized steel sheet, hot-dip galvanize after fabrication in accordance with ASTM A153, A386 or A123 as applicable.

11. SOURCE QUALITY CONTROL

- a. The Owner's Testing Agency will:
 - 1) Review mill analysis and certificates of compliance.
 - 2) Test samples of thickness of base metal and thickness of galvanized coating as required by applicable ASTM Standards.

12. INSPECTION

- a. Examine construction to support decking and verify that:
 - 1) Dimensions are correct.
 - 2) Setting conditions are proper.
 - 3) Means of attachment integral with support is correct.
- b. Do not start installation until unsatisfactory conditions have been corrected.

13. INSTALLATION

- a. General Requirements:
 - 1) Install decking in accordance with contract Drawings.
 - 2) Provide flashings, closure strips, closure plates, reinforcing and fastenings as required.
 - 3) Perform shaping, cutting, drilling and fitting in manner to equal workmanship of shop fabrication.
 - 4) Button-punching or crimping in lieu of welding will not be permitted.
- b. Layout:
 - 1) Place and adjust units in final position prior to permanent fastening.
 - 2) Install in straight, continuous rows with ribs at right angles to supporting members.
 - 3) Align ribs to be straight within 1/4 inch in overall length of decking.
 - 4) Locate butted ends tight at center line of structural support with positive, solid, complete bearing over full width of panel without deforming units. Ensure not less than one-inch bearing on support.
 - 5) Locate extreme ends and edges over structural supports with positive, solid complete bearing over full width of support for full width or length of panel without deforming units.
- c. Welding Procedure:
 - 1) Perform welding in accordance with AISI and AWS D1.3.
 - 2) Ensure surfaces to receive weld metal are clean and dry.
 - 3) Weight units with sand bags near welding points to secure firm contact of surfaces welded as required.
 - 4) Surfaces with temperature Below 32 Degrees Fahrenheit: Preheat to minimum 70 degrees Fahrenheit and maintain during welding.
 - 5) Maintain long arc while electrode is moved in circular direction until proper hole size is burned in sheet metal. Shorten arc and deposit weld metal around complete circumference of hole.
 - 6) Clean all welds immediately by wire brushing and touch-up with paint before covering with succeeding panel.
 - 7) Take special care to secure solid welds where unit is warped or curved or

meets supporting member at angle.

- d. Reinforcing:
 - 1) Reinforce opening as shown on drawings:
 - 2) Provide reinforcing wherever else structurally required.
- e. Closure Strips: Attach to decking with tack welds.

14. CLEANING AND PAINTING

- a. Touch-Up Painting
 - 1) Galvanized Surfaces and Field Welds: Where galvanizing has been damaged in handling or burned off top or bottom surfaces in welding, acid-etch with approved acid wash and apply paint to these surfaces and to field welds.
 - 2) Prime-Coated Structural Steel Framing: Where welding metal decking to structural steel has burned off prime-coat or resulted in other damage, apply paint as required to restore coverage.
- b. Prepare surfaces as necessary for proper application of structural concrete.

15. FIELD QUALITY CONTROL

- a. The Owner's Testing Agency will:
 - 1) Provide continuous inspection of welding, including prior fit-up, welding equipment, weld quality and welder certification.
 - 2) Provide continuous inspection during installation as required to establish conformity of work with requirements.

SECTION 05 40 00 - COLD-FORMED METAL FRAMING

1. DESCRIPTION

- a. Section Includes: Provision of light gauge steel stud and joist framing. Work includes, but is not necessarily limited to the following:
 - 1) Load-bearing steel stud framing at exterior walls.
 - 2) Interior stud wall and ceiling framing with studs 18-gauge and heavier.
 - 3) Framing accessories.
- b. Related Sections:
 - 1) Section 05 12 00 - Structural Steel
 - 2) Section 05 40 00 - Metal Framing Systems
 - 3) Section 05 50 00 - Metal Fabrications
 - 4) Section 09 22 00 - Lath and Plaster
 - 5) Section 09 23 00 - Gypsum Board Systems

2. REFERENCES

- a. Requirements of the GENERAL CONDITIONS and DIVISION NO. 1 apply to all Work in this Section.
- b. Published specifications, standards, tests, or recommended methods of trade, industry, or governmental organizations apply to Work of this Section where cited by abbreviations noted below (latest editions apply).
 - 1) American Society for Testing and Materials (ASTM).
 - 2) Federal Specifications (FS).

- 3) American Welding Society (AWS) D1.3: "Structural Welding Code - Sheet Steel".
- 4) American Iron and Steel Institute (AISI): "Specifications for the Design of Cold-Formed Steel Structural Members".
- 5) Metal Lath Association (MLA): "Specifications for Metal Lath and Furring".
- 6) Steel Structures Painting Council (SSPC): "Painting Manual".
- 7) California Building Code (CBC), 2007 Edition.

3. QUALITY ASSURANCE

- a. Regulatory Requirements:
 - 1) Comply with fire-resistance ratings as indicated and as required by governing authorities and codes.
 - 2) Provide materials, accessories, and application procedures which have been listed by an approved testing agency or tested according to ASTM E119 for the type of construction shown.
 - 3) Comply with requirements of CBC Section 2209 for design and identification of cold-formed steel.
 - 4) Framing system shall conform to ICC-ES Report for stud gauge and spacing for all wall conditions.
- b. Steel stud system shall conform to referenced AISI documents.
- c. Installer: Company specializing in performing the work of this Section with minimum 3 years documented experience.
- d. Welders: Qualified in accordance with AWS D1.3 for welding process, position, type of weld and type of steel.

4. SUBMITTALS

- a. Submit in accordance with provisions of Section 01 33 00, "Submittals".
- b. Shop Drawings: Include plans and elevations at not less than 1/4 inch to 1'-0" scale, and details at not less than 3 inches to 1'-0" scale.
 - 1) Indicate wall stud and ceiling joist layout.
 - 2) Indicate component details, framed openings, bearing, anchorage to structure, type and location of fasteners and accessories, and items required of related work for complete installation of steel stud system.
- c. Product Data: Manufacturer's ICC-ES report, specifications and installation instructions for steel studs, fasteners, and accessories.
- d. Experience of installer if requested by Architect.

5. PRODUCT DELIVERY, STORAGE AND HANDLING

- a. Procedures: In accordance with Section 01 60 00, "Materials and Equipment".
- b. Protect framing from rusting and damage.
- c. Deliver in manufacturer's unopened containers or bundles fully identified with name, brand, type and grade.
- d. Store inside a dry, ventilated space, and protect framing from rust and damage.

6. JOB CONDITIONS

- a. Coordinate stud sizes and layouts with the work of the various trades. Where ductwork, conduit, piping, casework, and other such items exceed indicated available space, increase stud sizes or make other minor modifications as necessary to accommodate the work at no change in cost of the Work.

7. MANUFACTURERS

- a. Acceptable Manufacturers: Angeles Metal Systems, Western Metal Systems, or equal product substituted per Section 01 62 00.

8. MATERIALS

- a. Sheet Steel: ASTM A570, Grade 50.
- b. Studs: Cee studs with punched web, unless otherwise noted, formed of gauge as specified on the Drawings.
 - 1) Provide ASTM A570, Grade 50 and 30, shop-coat with manufacturer's standard rust-inhibitive primer after fabrication.
 - 2) Minimum properties for each size stud shall be as follows, unless otherwise indicated on Drawings.

Size (inches)	Gauge	Flange Width (in.)	Moment of Inertia (in.)	Section Modulus (in ³)	Grade (ksi)
3-5/8	16	1-5/8	0.917	0.506	50
3-5/8	18	1-5/8	0.744	0.411	30
6	16	1-5/8	2.970	0.990	50
6	18	1-5/8	2.403	0.801	30
8	16	1-5/8	6.038	1.509	50

- c. Floor Tracks: Formed from same gauge and grade of steel as used for studs: 1-1/4-inch legs.
 - 1) Provide ASTM A446, Grade D, or shop-coat with rust-inhibitive primer after fabrication.
- d. Ceiling Tracks: Formed from 16-gauge steel, 2-inch legs.
 - 1) Provide ASTM A446, Grade D, or shop-coat with rust-inhibitive primer after fabrication.
- e. Cold-Rolled Furring Channels: As specified in Section 09 22 00, "Metal Support Systems".
- f. Partition Stiffeners or Bridging: Unpunched channel shape, formed of 16-gauge steel to required dimensions.
- g. Powder-Driven Fasteners:

- 1) Tempered-steel pins with special corrosive-resistant plating or coating.
 - 2) Pins shall have guide washers to accurately control penetration, minimum 1-1/4 inch.
 - 3) Fastening shall be accomplished by low-velocity, piston-driven, powder-accentuated tool.
 - 4) Pins and tool shall be Hilti Fastening Systems DN-32-P8 (ESR # 1752) or equal product substituted per Section 01 62 00.
- h. Expansion Bolts: Hilti Fastening Systems "Kwik Bolt 3 Concrete Anchors" (ICC-ES #1385), or equal product substituted per Section 01 62 00.
- i. Welding Electrodes: AWS low hydrogen, rod number and diameter as approved by the Owner's Testing Agency.
- j. Bracing: Provide cross diagonal 3-inch wide by 14-gauge straps, welded as indicated on the Drawings and per stud manufacturer's specifications for frame stability.
- k. Touch-up Primer for Galvanized Surfaces: SSPC Paint 20 zinc rich.
- l. Metal Screws: Self-drilling and self-tapping; No. 8 pan head and larger as noted on Drawings.
9. PREPARATION
- a. Coordinate details and requirements of other Work which adjoins or fastens to studs and requires backing or special support framing included in this Section.
 - 1) Items requiring backing or support include, but are not necessarily limited to casework, wall-specialties, and similar items.
 - 2) Obtain Architect's approval of backing method proposed to satisfy requirements of this Section which differs from methods noted or shown.
10. EXAMINATION
- a. Examine all parts of the supporting structure and the conditions under which studs will be installed.
 - b. Notify the Architect, in writing, of any conditions detrimental to the proper and timely completion of the Work.
 - c. Do not proceed with the installation of steel studs until unsatisfactory conditions have been corrected.
11. INSTALLATION
- a. Tracks shall be securely anchored to supporting structure, with fasteners specified at not more than 24 inches on center.
 - b. Complete, uniform, and level bearing support shall be provided for the bottom track at each bearing/stud location. Install full metal shims below bottom track at stud locations as needed, or set bottom track in high-strength grout.
 - c. Abutting or intersecting pieces or track shall be securely anchored to a common structural element or spliced together.
 - 1) Splices or butt welds shall be used at all butt joints in the runner track.
 - 2) Do not splice studs.

- d. Studs shall sit squarely in the top and bottom runner track with firm abutment against track webs.
 - 1) Studs shall be aligned or plumbed and securely fastened to the flanges of both top and bottom track.
 - 2) Space studs 16 inches on center maximum unless otherwise noted on Drawings.
 - e. Framed wall openings shall include a header and multiple studs at each edge of opening as indicated on Drawings.
 - f. Diagonal bracing shall be installed at locations indicated for frame stability.
 - g. Install bridging as indicated on Drawings where studs are to be finished on one side only.
 - h. Form corners and intersections of partitions with three studs. Provide additional studs as indicated or required.
 - i. Joining of members shall be made with welding; wire tying of framing members shall not be permitted.
 - j. Welded connections shall be made by resistance spot fusion welding, fillet welding, or plug welding and shall be done in accordance with the latest recommended procedures and practices of the American Welding Society.
 - k. Do not cut or notch stud flanges or cut additional opening in stud web.
 - l. Field abrasions and welds shall be touched up with zinc rich primer.
 - m. Tolerance: Install members to provide surface plane with maximum variation of 1/4 inch in 10 feet in any direction.
12. INSTALLATION OF FIRE-RATED ASSEMBLIES
- a. Install studs which are components of fire-rated wall assemblies as indicated.
13. BACKING IN STUD PARTITIONS
- a. Securely weld or screw cut sections of unpunched stud to at least three stud or furring supports, leaving flat surface of backing stud web to receive attachment of object to be secured.
 - b. Verify that any predrilling of backing and attachment of spacers to prevent crushing of collateral material is done prior to application of collateral material.
 - c. If it is determined by the Architect that backing was not provided for any items as required, the Contractor shall remove the finish material and install backing. The Contractor shall patch and refinish surface to match adjacent area and finish.
14. FIELD QUALITY CONTROL
- a. The Owner's Testing Agency will:
 - 1) Provide continuous inspection of welding, including prior fit-up, welding equipment, weld quality, and welder certification in accordance with CBC Section 1704.3.

- 2) Provide continuous inspection during installation as required to establish conformity of Work requirements.

SECTION 05 50 00 – METAL FABRICATIONS

1. Provide metal fabrications made from steel shapes, plates, bars, strips, tubes, pipes and castings not a part of structural steel or specified in other Sections.
2. Materials:
 - a. Steel Shapes, Bars, and Plates: ASTM A36.
 - b. Steel Tubing: ASTM A500 or A501.
 - c. Steel Pipe: ASTM A53, type and grade selected by fabricator. Black finish unless galvanizing is indicated or specified. Standard weight, schedule 40.
 - d. Structural Steel Sheet: Hot-rolled, ASTM A570 or cold-rolled ASTM A611, Class I.
 - e. Galvanized Structural Steel Sheet: ASTM A446, galvanized in accordance with ASTM A525, G90 coating designation.
 - f. Concrete Inserts: Threaded or wedge type, galvanized ferrous castings, either malleable iron, ASTM A47 or cast steel, ASTM A27. Provide bolts, washers and shims as required, hot-dip galvanized, ASTM A153
 - g. Grout:
 - 1) Metallic Non-Shrink Grout: Pre-mixed, factory-packaged, ferrous aggregate grout.
 - 2) Non-Shrink Non-Metallic Grout: Pre-mixed, factory-packaged, non-staining, non-corrosive, non-gaseous grout.
 - h. Fasteners: Type, grade, and class required, zinc coated or Type 316 stainless steel for exterior use.
 - i. Paint: Metal primer and galvanizing repair paint. Interior metal fabrications will be field-painted as specified in Section 09 91 00. Exterior metal fabrications will be field-painted as specified in Section 09 97 13.
3. Weld corners and seams continuously. At exposed connections, grind exposed welds smooth and flush to match and blend with adjoining surfaces. Welds shall be imperceptible in the finished work.
4. Shop paint miscellaneous metal work, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded, and galvanized surfaces. Primer on interior exposed to view items to be field painted shall be smooth and suitable for application of final finish coats specified in Section 09 91 00. Primer on exterior exposed to view items shall be same primer specified in Section 09 97 13.

5. Metal Fabrications:
 - a. Painted Steel Guardrails, Railings and Handrails: Fabricate from steel shapes to design, dimensions and details required. Provide coped joints at tees and cross sections, mitered joints at elbows, with welds ground smooth and flush. Railings and handrails shall comply with ADA requirements. Interior guardrails, railings and handrails will be field-painted as specified in Section 09 91 00. Exterior guardrails, railings and handrails will be field painted as specified in Section 09 97 13.
 - b. Bollards: Steel pipe filled with concrete and set into recessed pipe sleeves. Bollards will be field painted as specified in Section 09 97 13.
 - c. Horizontal Sunscreens: Fabricate from steel shapes to design, dimension and details required. Exposed welds shall be ground smooth and flush. Sunscreens will be field painted as specified in Section 09 97 13.

SECTION 05 51 00 – METAL STAIRS

1. Metal enclosed exit stair systems consisting of metal stairs with concrete filled treads and landings, metal risers, landings, railings, handrails, anchors, supports and other accessories.
2. Regulatory Requirements: Comply with applicable provisions of California Building Code (CBC), ADAAG and ANSI A117.1 as applicable for stairs and handrails.
3. Structural Design: Fabricator shall provide structural engineering design and calculations for metal stairs, developed and signed by a professional engineer registered in State of California.
 - a. Stairs and platforms shall support a minimum uniform live load of 100-psf with a safety factor as required by code and individual stair treads shall support a 300-pound concentrated load placed in a position that would cause maximum stress.
 - b. Lateral Load: 25-percent of live load plus dead load of stair. Maximum lateral deflection 1/8-inch horizontal displacement.
4. Materials:
 - a. Steel Shapes and Plates: ASTM A36:
 - b. Steel Pipe: ASTM A53, Type E or S, Grade B.
 - c. Steel Tubing: ASTM A500, Grade B or C for structural use; ASTM A513, hot rolled or coiled rolled (mill option) for non-structural use.
 - d. Steel Sheet: ASTM A570 (hot rolled) or A1008 (cold rolled) for structural use; ASTM A569 (hot rolled) or A1008 (cold rolled) for non-structural use.
 - e. Fasteners and Accessories: Provide necessary anchor bolts, clip angles, hanger rods and other hardware, accessories and incidental materials required for complete installation of stairs and rails.
 - f. Primer: Acrylic Latex rust-inhibitive primer containing less than 1.0-lb/gal volatile organic compounds (VOC), certified to be compatible with finish coats specified in section 09 91 00.

5. Stair Fabrication:
 - a. Stringers: Minimum thickness or gauge as determined by structural design calculations, structural grade steel channel.
 - b. Treads and Risers: Hot-rolled mild steel pans with concrete fill.
 - c. Mid Landings: Hot-rolled mild steel sheets, formed for a minimum 3-inches concrete fill, reinforced as required.
6. Rail System:
 - a. Stair 4 & Stair 5: Continuous perforated steel plate guardrails with tube steel handrails.
7. Immediately after shop fabrication and cleaning, spray-apply primer to a minimum dry film thickness of 2.0-mils. Apply one coat hi-solids red oxide anti corrosive primer meeting federal specifications TT-664, TT-P-636, and SSPC1364.

SECTION 05 58 00 - FORMED METAL FABRICATIONS

1. Exterior formed sheet metal fabrications.
2. Metal sheets shall be selected for straightness and flatness, and shall be free of fabrication marks, dents, scratches, oil canning or other imperfections. Provide thickness required to prevent oil canning or other imperfections.
3. Aluminum Sheet: Alloy and temper recommended by manufacturer for intended use, minimum 1/8-inch thick or as required.
 - a. Finish: Minimum 70-percent "Kynar 500" fluoropolymer resin-based coating, custom color to be selected.
4. Concealed Fasteners: Material shall same basic metal as the metal fastened. Do not use metals that are corrosive or incompatible with materials joined.
5. Accessories: Provide components required for a complete installation, including clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match materials and finishes of panels.
 - a. Sealing Tape: Pressure-sensitive, 100-percent solids, polyisobutylene compound sealing tape with release paper backing. Provide permanently elastic, non-sag, non-toxic, non-staining type.
 - b. Joint Sealant: One-part elastomeric polyurethane, polysulfide, or silicone rubber sealant as recommended by panel fabricator. Comply with requirements specified in Section 07 92 00.
6. Adhesives: As recommended by panel fabricator for laminating sheet metal to backing materials.
7. Fabrication:

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- a. Maintain the visual design concepts shown, including member sizes, profiles and alignment. Verify supporting dimensions affecting this work prior to beginning fabrication.
- b. Use materials that are smooth and free of blemishes such as pitting, seam marks, roller marks, trade names and roughness for work exposed to view. Metal surfaces shall be flat and square, free of oil canning, dents, scratches, or other defects.
- c. Form bent metal corners to the smallest radius possible without causing grain separation or otherwise damaging the work.
- d. Form sheet metal items in lengths to minimize joints or to result in joints only where indicated. Fold back exposed ends of unsupported sheet metal to form a 1/2-inch wide hem on the concealed size, or ease exposed edges with backing to a radius of approximately 1/32-inch.

END OF DIVISION 05

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

SECTION 06 05 73 - WOOD TREATMENT

1. Preservative treated wood and fire-retardant treated wood.
2. Preservative Wood Treatment: Provide for wood in contact with roofing, masonry, concrete, waterproofing, flashing and sheet metal, and earth.
 - a. Comply with applicable requirements of AWWA Standards C2 (Lumber) and C9 (Plywood). Mark each treated item with AWPB or SPIB Quality Mark Requirements.
 - b. Complete fabrication of treated items prior to treatment, where possible. If cut after treatment, coat cut surfaces to comply with AWWA M14. Inspect each piece of lumber or plywood after drying and discard damaged or defective pieces.
 - c. Acceptable Wood Preservatives: Copper Naphthenate and Zinc Naphthenate.
3. Fire-Retardant Treatment: Provide for wood used inside the building.
 - a. Pressure impregnate lumber and plywood with fire-retardant chemicals to comply with AWWA C20 and C27 respectively. Identify "fire-retardant-treated wood" with appropriate classification marking of UL or other testing and inspecting agency acceptable to authorities having jurisdiction.
 - b. Inspect each piece of treated lumber and plywood after drying and discard damaged or defective pieces.

SECTION 06 10 53 - MISCELLANEOUS ROUGH CARPENTRY

1. Miscellaneous rough carpentry items.
2. Rough carpentry work shall comply with CBC Chapter 23.
3. Lumber: Douglas Fir, No. 2, 19-percent maximum moisture content, preservative treated as specified in Section 06 07 53.
4. Electrical/Telephone/IT Backing Panels: C-D Plugged, Exposure 1, fire-retardant treated as specified in Section 06 05 73, 3/4-inch thick unless otherwise indicated.
5. Fasteners and Anchors: Provide size, type, material and finish indicated and recommended by applicable standards, complying with applicable Federal Specifications for nails, staples, screws, bolts, nuts, washers and anchoring devices. Provide hot-dip galvanized or stainless-steel fasteners and anchors. Fasteners galvanized by other than the hot-dip process will not be permitted.

SECTION 06 41 00 - ARCHITECTURAL WOOD CASEWORK

1. This Section includes:
 - a. Custom wood veneer cabinetwork.
2. Hardwood Veneer for Transparent Finish: NAAWS Grade AA, species and cut to be selected.
3. Hardwood Trim for Transparent Finish: NAAWS Premium Grade, species and cut to match hardwood veneer.
4. Backing for Wood Veneer and Plastic Laminate:

- a. Plywood: NAAWS Grade B close grain hardwood veneer plywood, smooth, well sanded, thickness indicated. Provide exterior grade with waterproof glue at countertops with sinks.
- 5. Subframe Lumber: No. 1 grade Douglas Fir or plain sawn Yellow Poplar.
- 6. Wood Casework for Transparent Finish: NAAWS Section 10, Premium grade, Construction Type A – Frameless Construction; Interface Style 1 – Flush Overlay. Cabinets shall receive a factory-applied transparent finish as specified, to match approved sample.

SECTION 06 64 00 - PLASTIC PANELING (FRP)

- 1. Fiberglass reinforced plastic (FRP) coated wall panels at janitor and service areas.
- 2. Adhesive: VOC-compliant waterproof adhesive as recommended by panel manufacturer for installation conditions.
- 3. Moldings: PVC, color to match panels. Provide inside corners, outside corners, edging, division strips, and base molding.

END OF DIVISION 06

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 07 14 16 - ELASTOMERIC LIQUID WATERPROOFING

1. Elastomeric fluid-applied waterproofing under thin-set floor tile in toilet rooms.
2. Warrant elastomeric liquid waterproofing to be free from defects in materials and workmanship for a period of 10-years from Date of Substantial Completion.
3. Membrane: Cold-applied liquid rubber latex with fabric reinforcement.
4. Reinforcing: Rot-proof fabric, designed by membrane manufacturer for use in reinforcing membrane.

SECTION 07 21 00 – THERMAL INSULATION

1. Batt/Blanket Insulation:
 - a. Material: Thermal fiberglass insulation made from resilient glass fibers bonded with a formaldehyde-free acrylic thermosetting binder, complying with ASTM C665, Type I.
 - b. Surface Burning Characteristics: Flame spread 25 or less; smoke developed 50 or less, when tested in accordance with ASTM E84.
 - c. Thickness: As required for R-19 in walls and R-30 in ceilings. Size batts to fill framing cavity.
2. Continuous Mineral Wool Insulation:
 - a. Material: Non-combustible, semi-rigid mineral wool insulation board that is water-repellent and resists temperatures above 2,000-deg. F., complying with ASTM C612, IVA.
 - b. Density: 6.0-pcf.
 - c. Surface Burning Characteristics: Flame Spread 0 / Smoke Density 0, ASTM E84.
 - d. Thickness: As required.
3. Composite Framing Support System: Polyester and vinyl ester bioresin matrix (FRP) with recycled materials, fire-retardant additives and integral continuous metal inserts, reinforced with glass strand rovings.

SECTION 07 22 16 – ROOF BOARD INSULATION

1. Polyisocyanurate Board Roof Insulation: HCFC-free rigid closed-cell, non-composite, polyisocyanurate board insulation integrally laminated to heavy non-asphaltic fiber-reinforced felt facers conforming to ASTM C1289, Type II, Class 1.
 - a. Thickness: As required to result in an average LTTR-value of 30.
 - b. Compressive Strength: Minimum 25-psi.
 - c. Blowing Agent: HCFC free hydrocarbon.
 - d. Fire-Ratings: ASTM E108 Class A; ASTM E119 non-combustible.

- e. Provide tapered units where indicated or required for slope to drain. Minimum thickness at tapered boards shall be 1/2-inch. Minimum slope to drains shall be 1/4-inch per foot.
 - f. Provide in multiple layers. Minimum thickness of first layer shall be 1-inch or as recommended by roof insulation manufacturer for spanning metal deck flutes. Maximum thickness of any layer shall not exceed 1-1/2-inches.
2. Cover Board: Provide one of the following as approved by roofing membrane manufacturer.
- a. High-Density Polyisocyanurate: High-density polyisocyanurate bonded in-line to mineral-surfaced, fiber glass reinforced facers.
 - b. Substrate Board: ASTM C1177, glass-mat, water-resistant gypsum substrate, 1/2-inch thick unless otherwise indicated.
 - c. Perlite Board: ASTM C728, composed of expanded perlite, cellulosic fibers, binders and waterproofing agents with top surface seal-coated, 3/4-inch thick unless otherwise indicated.

SECTION 07 25 00 – WATER RESISTIVE BARRIER SYSTEM

1. PERFORMANCE REQUIREMENTS

- a. Air barrier shall be capable of performing as a continuous vapor-permeable air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration.
- b. Air barrier shall have the following characteristics:
 - 1) It shall be continuous with all joints made airtight.
 - 2) It shall have an air permeability not to exceed 0.004-cfm/sq. ft. under a pressure differential of 0.3-in water (1.57-psf) when tested in accordance with ASTM E2178.
 - 3) It shall be capable of withstanding positive and negative combined design wind, fan and stack pressures on the envelope without damage or displacement, and shall transfer the load to the structure.
 - 4) Penetrations and paths of air infiltration/exfiltration shall be made airtight.

2. Products:

- a. Self-Adhered Air and Moisture Barrier Membrane: Self-adhered membrane consisting of a breathable carrier film with a specially designed adhesive, which permits the transfusion of water vapor and provides protection against the damaging effects of air and water ingress on building structures. Membrane shall have the following minimum physical properties:
 - 1) Air Permeance, ASTM D2178: Not to exceed 0.004-cfm/sq. ft. under a pressure differential of 0.3-inch water (1.57-psf).
 - 2) Assembly Air Permeance, ASTM E2357: Not to exceed 0.04-cfm/sq. ft. under a pressure differential of 0.3-inch water (1.57-psf).
 - 3) Water Vapor Permeance, ASTM E96: Not less than 15-perms.

- 4) Water Resistance, AATCC-127: No less than 5-hrs at 21-inch.
 - 5) Breaking Force, ASTM D5034: 55-lbf MD, and 44-lbf CD.
 - 6) Pull Adhesion, ASTM D4541: Minimum 15-psi to primed glass faced gypsum sheathing; minimum 12-psi to primed concrete masonry units.
 - 7) Peel Adhesion, ASTM D903: Minimum 5-pli to primed glass faced gypsum sheathing; minimum 2.5-pli to primed concrete masonry units.
 - 8) UV Exposure Limit: Not more than 150 calendar days.
 - 9) Water Penetration Resistance Around Nails, ASTM D1970 Modified: Pass.
- b. Transition Membrane: GCP Applied Technologies “Perm-A-Barrier Detail Membrane”; 36-mil self-adhesive rubberized asphalt integrally bonded to 4-mil of cross-laminated, high-density polyethylene film to provide a minimum 40-mil thick membrane. Membrane shall be interleaved with disposable silicone-coated release paper until installed. Membrane shall conform to the following:
- 1) Water Vapor Transmission, ASTM E96, Method B: 0.05-perms max.
 - 2) Air Permeance at 0.3-in Water Pressure Difference: 0.00012-cfm/sq. ft. max.
 - 3) Puncture Resistance, ASTM E154: 40-lbs. min.
 - 4) Lap Adhesion at 25-deg. FR., ASTM D1876: 5.0-lbs./in. of width.
 - 5) Low Temperature Flexibility, ASTM D1970: Unaffected to -45-deg. F.
 - 6) Tensile Strength, ASTM D412, Die C Modified: Min. 400-psi.
 - 7) Elongation, Ultimate Failure of Rubberized Asphalt, ASTM D412, Die C: Min. 200-percent.
- c. Transition Aluminum Membrane: GCP Applied Technologies “Perm-A-Barrier Aluminum Flashing”; 35-mils of self-adhesive rubberized asphalt integrally bonded to 5-mil of aluminum film to provide a min. 40-mil thick membrane. Membrane shall be interleaved with disposable silicone-coated release paper until installed. Membrane shall conform to the following:
- 1) Water Absorption: ASTM D570: Max. 0.1-percent by weight
 - 2) Puncture Resistance: ASTM E154: 80-lbs.
 - 3) Lap Adhesion at 25-deg. F., ASTM D1876 Modified: 5.0-lbs./in. of width
 - 4) Low Temperature Flexibility, ASTM D1970 Modified: Unaffected to -15-deg. F.
 - 5) Tensile Strength: ASTM D412, Die C Modified: Min. 600-psi

- 6) Elongation, Ultimate Failure of Rubberized Asphalt, ASTM D412: Die C Modified: Min. 200-percent.
- d. Flexible Membrane Through-Wall Flashing: GCP Applied Technologies “Perm-A-Barrier Wall Flashing”, 32-mils of self-adhesive rubberized asphalt integrally bonded to 8-mil of cross-laminated, high-density polyethylene film to provide a min. 40-mil thick membrane. Membrane shall be interleaved with disposable silicone-coated release paper until installed. Membrane shall conform to the following:
 - 1) Water Vapor Transmission, ASTM E96, Method B: 0.05-perms max.
 - 2) Water Absorption, ASTM D570: Max. 0.1-percent by weight.
 - 3) Puncture Resistance, ASTM E154: 80-lbs. min.
 - 4) Tear Resistance:
 - a. Initiation, ASTM D1004: Min. 13.0-lbs MD.
 - b. Propagation, ASTM D1938: Min. 9.0-lbs. MD.
 - 5) Lap Adhesion at 25-deg. F., ASTM D1876: 5.0-lbs./in. of width.
 - 6) Low Temperature Flexibility, ASTM D1970: Unaffected to -45-deg. F.
 - 7) Tensile Strength, ASTM D412, Die C Method: Min. 800-psi.
 - 8) Elongation, Ultimate Failure of Rubberized Asphalt, ASTM D412, Die C: Min. 200-percent.
 - e. Wall Primer for Self-adhered Air and Moisture Barrier Membrane: GCP Applied Technologies “Perm-A-Barrier Primer”, water-based primer with the following physical properties:
 - 1) Solids Content: 53- to 57-percent.
 - 2) Solvent Type: Water.
 - 3) VOC Content: Not to exceed 1 g/L.
 - f. Wall Primer for Self-adhered Transition Membrane and Self-adhered Flexible Membrane Wall Flashing: GCP Applied Technologies “Perm-A-Barrier WB Primer”, water-based primer with the following physical properties:
 - 1) Solvent Type: Water.
 - 2) VOC Content: Not to exceed 10 g/L.
3. PENETRATIONS AND TERMINATION SEALANT
 - a. Liquid Membrane for Details and Terminations: GCP Applied Technologies “Bituthene Liquid Membrane”, two-part, elastomeric, trowel grade material designed for use with self-adhered membranes and tapes. Max. 10 g/L VOC content.

- b. Substrate Patching Membrane: GCP Applied Technologies “Bituthene Liquid Membrane”, two-part, elastomeric, trowel grade material designed for use with self-adhered membranes and tapes. Max. 10 g/L VOC content.
- c. Joint Sealant: As recommended by membrane manufacturer.

SECTION 07 26 23 – BELOW-GRADE VAPOR BARRIERS

- 1. Moisture barrier under concrete slabs-on-grade.
- 2. Moisture Barrier Sheeting:
 - a. Water Vapor Permeance: 0.012-perms, ASTM E96 and ASTM F1249.
 - b. Water Vapor Barrier: Meets or exceeds Class A, ASTM E1745.
 - c. Thickness: Not less than 15-mils.
 - d. Tensile Strength: 76.6 lbf./inch, ASTM D882.
 - e. Puncture Resistance: 2445 grams, ASTM D1709.
- 3. Sealing Material: High density polyethylene tape with pressure sensitive adhesive, minimum 4-inches wide.
- 4. Pipe Boots: Construct from vapor retarder sheeting material and pressure sensitive tape in accordance with manufacturer’s instructions.

SECTION 07 54 19 - POLYVINYL-CHLORIDE ROOFING

- 1. Summary: Totally adhered polyvinyl-chloride (PVC) elastomeric single ply roofing system.
- 2. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-test-response characteristics specified as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
 - a. Exterior Fire-Test Exposure: Class A; ASTM E108, for application and roof slopes indicated.
 - b. Fire-Resistance Ratings: ASTM E119, for fire-resistance-rated roof assemblies of which roofing system is a part.
- 3. Polyvinyl-chloride roofing shall qualify for a Factory Mutual 1-90 Windstorm Classification.
- 4. Warranty:
 - a. Furnish manufacturer’s no dollar limit written warranty, signed by manufacturer, agreeing to repair or replace defective materials and workmanship for a period of 20-years after date of Substantial Completion of work. Warranty includes roofing membrane, flashings, roofing membrane accessories, fasteners, walkway products, and other single-source components of roofing system marketed by the manufacturer.

- b. Furnish installer's warranty including all components of roofing system for a period of 2-years from date of Substantial Completion.
- 5. Manufacturer: Sika Sarnafil "S327 EnergySmart Roof Membrane", Everguard/GAF "EGSR-60" or equal.
- 6. PVC Sheet: ASTM D4434, Type II (fiberglass mat) reinforced.
 - a. Thickness: 60-mils minimum with 9-ounce fleece backing.
 - b. Color of Membrane: EnergySmart White. Membrane shall be Energy Star listed and shall have a SRI of 78.
- 7. Sheet Flashing: Manufacturer's sheet flashing of same material, type, reinforcement, thickness and color as sheet membrane.
- 8. Bonding Adhesive: Manufacturer's standard water-based bonding adhesive for membrane, and solvent-based bonding adhesive for flashings.
- 9. Metal Termination Bars: Manufacturer's standard predrilled aluminum bars, with anchors.
- 10. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane manufacturer.
- 11. Flashing Metal: Minimum 24-gauge galvanized steel laminated to 20 mils of roofing membrane.
- 12. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips and other accessories required for a complete, watertight installation.
- 13. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads sourced from membrane roofing system manufacturer.

SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

- 1. Exterior sheet metal flashing and trim.
- 2. Galvanized Steel: ASTM A653, G90, commercial or lock-forming quality, hot-dip galvanized steel sheet with 0.20-percent copper, mill phosphatized for painting; not less than 22-gauge.
- 3. Aluminum Sheet: ASTM B209, alloy as standard with manufacturer for finished required, with temper as required to suit forming operations and performance required, 0.040-inch thick except as otherwise indicated. Provide where flashings are exposed to view.
 - a. Surface: Smooth, flat.
 - b. Coil-coated Finish: Three-coat fluoropolymer containing not less than 70-percent PVDF resin by weight in color coat and clear topcoat, complying with AAMA 2605. Custom color, including mica and metallic finishes. Concealed surfaces may be finished with manufacturers light-colored acrylic or polyester backer finish applied to a dry film thickness of 0.5 mil.
- 4. Solder: ASTM B32, Grade Sn50, used with rosin flux.
- 5. Fasteners: Same metal as flashing and sheet metal or other noncorrosive metal recommended by sheet manufacturer.

6. Bituminous Coating: SSPC - Paint 12, solvent type bituminous mastic, nominally free of sulfur, compounded for 15-mil dry film thickness per coat.
7. Mastic Sealant: Polyisobutylene; non-hardening, non-skinning, non-drying, non-migrating sealant.
8. Epoxy Seam Sealer: 2-part noncorrosive metal seam cementing compound, recommended by metal manufacturer for exterior/interior non-moving joints including riveted joints.
9. Reglets: Metal units of type and profile indicated, compatible with flashing indicated, noncorrosive.
10. Metal Accessories: Provide sheet metal clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material being installed, noncorrosive, size and gauge required for performance.
11. Roofing Cement: ASTM D4586, Type I, asbestos-free, asphalt-based.
12. Edge Strips: Provide continuous edge strips for attaching exposed terminating edge of copings.
13. General Metal Fabrication:
 - a. Comply with details indicated and with applicable requirements of SMACNA "Architectural Sheet Metal Manual" and other recognized industry practices.
 - b. Fabricate for waterproof and weather-resistant performance; with expansion provisions for running work, sufficient to permanently prevent leakage, damage or deterioration of the work.
 - c. Form exposed sheet metal work without excessive oil-canning, buckling and tool marks, true to line and levels indicated, with exposed edges folded back to form hems.

SECTION 07 65 26 - SELF-ADHERING SHEET FLASHING

1. Self-adhering modified bituminous membrane flashing under copings and sheet metal flashings.
2. Membrane: Composite of polyethylene film and self-adhesive rubberized asphalt, conforming to the following physical properties:
 - a. Thickness: 30-mils minimum.
 - b. Tensile Strength: 250-psi minimum when tested in accordance with ASTM D412.
 - c. Elongation: 250-percent minimum when tested in accordance with ASTM D412 (Die C) modified.
 - d. Pliability, 180-deg. F. bend (1-inch mandrel at -25-deg. F): Unaffected when tested in accordance with ASTM D146.
 - e. Optional Facing: 2-mil aluminum foil.

3. Primer: As recommended by membrane manufacturer for priming substrates to receive flexible flashing.

SECTION 07 84 00 - FIRESTOPPING

1. Firestopping materials and systems shall be listed and labeled in accordance with requirements of Underwriters Laboratories, Inc. (UL) Building Materials Directory.
2. Through-Penetration Firestopping Materials: Provide endothermic latex sealant, intumescent latex sealant, intumescent putty, intumescent wrap strips, job-mixed vinyl compound, mortar, pillows/bags, silicone foams, silicone sealants, or other approved material.
3. Mineral Fiber Firestopping Materials: Semi-rigid mineral fiber insulation, minimum 4-pcf density. Provide manufacturer's standard impaling clips or custom designed to suit installation conditions, fabricated from galvanized sheet steel.
4. Firestopping at Electrical Boxes and Utility Outlets: Utility penetrations in walls, ceilings, or floors requiring protected openings shall be firestopped and sealed with an approved material securely installed, capable of maintaining its integrity when subjected to test temperatures specified in ASTM E814.

SECTION 07 92 00 - JOINT SEALANTS

1. Exterior Building Sealant:
 - a. Sealant to be Painted: One-component, low-modulus, solvent-free modified polyether sealant or one-component, elastomeric polyurethane.
 - b. Sealant not to be Painted: One-component, non-sag, medium modulus silicone sealant. Custom color to match adjacent materials.
2. Sanitary Sealant: One-part mildew-resistant silicone; ASTM C920 Type S; Grade NS; Class 25; Uses NT, G, A and O; formulated with fungicide for sealing interior joints with nonporous substrates around ceramic tile, showers, sinks and plumbing fixtures.
3. Horizontal Joint Sealant: Two-part pourable urethane; ASTM C920, Type M; Grade P; Class 25; Uses T, M, A and O. Horizontal joint sealant shall have a minimum Shore A hardness of 30.
4. Interior Building Sealant: Acrylic-emulsion; one-part, non-sag, mildew-resistant, complying with ASTM C834, formulated to be paintable.
5. Paving Joint Filler: Preformed cork strips complying with ASTM D1752 for Type II or preformed sponge rubber strips complying with ASTM D1752 for Type I.
6. Joint Sealant Backing: Provide sealant backings which are non-staining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved by sealant manufacturer based on field experience and laboratory testing.
7. Bond-Breaker Tape: Polyethylene tape or other plastic tape as recommended by sealant manufacturer. Provide self-adhesive tape where applicable.
8. Primer: As recommended by joint sealant manufacturer for adhesion of sealant to joint substrates.

SECTION 07 92 19 – ACOUSTICAL JOINT SEALANTS

1. Acoustical Sealant for Concealed Joints: Non-drying, non-hardening, non-skinning, non-staining, gunnable, synthetic rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.
2. Acoustical Sealant for Exposed Joints: Non-oxidizing, skinnable, paintable, gunnable sealant recommended for sealing interior exposed joints to reduce transmission of airborne sound.

SECTION 07 95 00 – EXPANSION CONTROL

1. Interior and exterior expansion-joint covers, including fasteners, seals, and accessories for a complete, weather tight installation.
2. Warrant expansion joint covers to be watertight for a period of 5-years from date of Substantial Completion.
3. Materials:
 - a. Retainers (Extrusions): Aluminum, ASTM B221, alloy 6063-T5. Protect aluminum surfaces in contact with cementitious materials with zinc chromate primer or chromate conversion coating.
 - b. Sheet and Plate: Aluminum, ASTM B209 alloy 6061-T6. Protect aluminum surfaces in contact with cementitious materials with zinc chromate primer or chromate conversion coating.
 - c. Spring Clips: Stainless Steel, ASTM A167, Type 304 with 2B finish.
 - d. Extruded Preformed Seals: Single or multi-layered rubber extrusions as classified under ASTM D2000, designed with or without continuous, longitudinal, internal baffles and formed to fit compatible frames, in color to match adjacent surface.
 - e. Exterior Seals: Two single layered flexible extrusions, one interior PVC and one exterior thermoplastic rubber, as classified under ASTM D2000, retained in a set of compatible frames, in color to match adjacent surface.
 - f. Accessories: Manufacturer's standard anchors, fasteners, set screws, spacers, flexible vapor seals and materials, drain tubes, adhesives and other accessories compatible with material in contact, as indicated or required for complete installations.
4. Aluminum Finishes
 - a. Exposed Surfaces: Factory-applied minimum 70-percent "Kynar 500" fluoropolymer resin-based coating. Custom color.
 - b. Factory-Primed Concealed Surfaces: Protect concealed metal surfaces that will be in contact with concrete and masonry surfaces when installed by applying a shop coat of manufacturer's standard primer to contact surfaces. Provide minimum dry film thickness of 2.0-mils.
5. Expansion Control Joints: Provide thermal and vapor barrier at all exterior joint covers.
 - a. Exterior Walls: C/S ESW or equal

- b. Floors: C/S SJPFR or equal
- c. Roofs: C/S SRJ or equal
- d. Interior Walls and Ceilings: C/S LAF or equal

END OF DIVISION 07

DIVISION 08 - OPENINGS

SECTION 08 14 16 - FLUSH WOOD DOORS

1. Summary: Interior flush wood doors.
2. Flush wood door construction shall comply with North American Architectural Woodwork Standards (NAAWS) Section 9 for Premium grade doors.
3. Fire-Rated Doors: Provide wood doors that comply with CBC; are identical in materials and construction to units tested in door and frame assemblies in accordance with NFPA 252 or UL 10C; and are labeled and listed by UL, Warnock Hersey, or other testing and inspection agency acceptable to authorities having jurisdiction. Labels shall comply with NFPA 80 and be permanently affixed to the door.
4. Allowable Tolerances:
 - a. Warp Tolerance: As specified in Section WDMA T-2. In addition, warp tolerance shall apply to pairs of doors and to doors in relation to the frame or jamb in which hung.
 - b. Squareness: WDMA T-3.
 - c. Gap Tolerance: As specified in NAAWS Section 9, Section 4.3.8 and Section 6.1.20.
 - d. Flushness of Joinery: As specified in NAAWS Section 9, Section 6.1.21.
5. Flush wood doors and steel frames specified in Section 08 11 13 shall comply with positive pressure test requirements of NFPA 252 or UL 10C and shall be labeled accordingly by the door and frame manufacturer in a manner approved by authorities having jurisdiction. Door label shall include hourly rating followed by the letter "S" indicating conformance with air leakage resistance testing, serial number, and the listing agency's certification mark.
6. Temperature-Rise Rating: At exit enclosures and exitways, provide doors that have a temperature-rise rating of 450 deg F maximum in 30 minutes of fire exposure. In addition to the requirements specified for positive pressure test requirements, the door label shall include temperature rise rating.
7. Warranty: Furnish manufacturer's full lifetime warranty for the life of the installation, including delamination of veneer, warping, and defective material.
8. Wood doors shall bear a tag affixed to the top of the door which includes the manufacturer's name with full description of face veneer assembly, species, cut, match, door type, size, and hardware machining information.
9. Door Type: Flush veneered, five-ply construction.
10. Veneer: NAAWS Premium Grade, FSC-certified cherry to match existing. Doors may be either factory finish or field finished at Design/Build Entity's option.
11. Cores:
 - a. 20-Minute Fire-Rated Doors and Non-Rated Doors: Solid particleboard conforming to ANSI A208.1.

- b. Fire-Rated Doors Greater than 20-Minute Rated: Incombustible mineral.
 - c. Cores shall not contain any added urea formaldehyde.
12. Vision Panels: Factory-installed prefabricated steel units, finish to be selected by the Architect.
13. Acoustics: Comply with acoustics narrative.

SECTION 08 17 00 – INTEGRATED DOOR OPENING ASSEMBLIES

- 1. Summary: Integrated door opening assembly consisting of door frame, door, and hardware.
- 2. Comply with acoustical narrative.
- 3. Door Assemblies: Manufacturer's complete assembly including door, hinge and suspension system, locking channel mechanism, sound damping, and door.
- 4. Hardware: Provide manufacturer's complete hardware package consisting of exit device, closer, stop, magnetic holder, and door seals.
- 5. Fabricate door opening assemblies in accordance with manufacturer's specifications and applicable code requirements.

SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- 1. Aluminum-framed entrances and storefronts.
- 2. Warrant aluminum-framed entrances and storefronts to be free from defects in materials and workmanship, air and water infiltration from any source, and watertight sealed joints for a period of 10-years from date of Substantial Completion. Failure in any storefront system components shall result in an extension of the warranty period until the deficiency is corrected. The Design/Build Entity shall be responsible for continuing corrections to defective work beyond the warranty period if initial corrective measures are found to be inadequate or ineffective.
- 3. Comply with acoustics narrative.
- 4. Materials:
 - a. Aluminum Members: 6063-T5 alloy and temper.
 - b. Fasteners: Aluminum or Series 300 nonmagnetic stainless steel.
 - c. Concealed Flashing: Dead-soft stainless steel or extruded aluminum as selected by manufacturer for compatibility with other components.
 - d. Brackets and Reinforcements: Aluminum or nonmagnetic stainless steel. Provide non-staining, non-ferrous shims for installation and alignment as required.
 - e. Weatherstripping: Manufacturer's standard replaceable type. Provide weatherstripping on meeting stiles of pairs of doors and at bottom rail of each door leaf.
- 5. Storefront Framing Systems: Fabricate from minimum 3/16-inch thick extruded aluminum members of size and profile indicated. Include sub-frames and other reinforcing members as required. Hardware reinforcement shall be minimum 1/4-inch thick material.

6. Stile-and-Rail Type Entrance Doors: Minimum 3/16-inch thick aluminum extrusions. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration and fillet welds. Each door leaf shall be equipped with an adjusting mechanism located in the top rail near the lock stile, which provides for minor clearance adjustments after installation. Hardware reinforcement shall be minimum 1/4-inch thick material. Entrance doors shall be fully welded. Doors shall be 1-3/4-inch thick with stile and rail dimensions as follows:
 - a. Top Rail: 8-1/2-inches.
 - b. Stiles: 5-1/2-inches.
 - c. Bottom Rail: 12-1/2-inches.
7. Miscellaneous Brake Shapes: Provide headers, closures, anchors and supports as indicated and required. Fabricate from minimum 0.090-inch aluminum.
8. Finish:
 - a. Where a color anodized finish is approved, exposed surfaces shall be finished with a Class I integral or electrolytically-deposited color anodized finish conforming to AA-M12C22A42/A44, color as selected from within standard industry colors and color density range.
 - b. Where a clear anodized finish is approved, exposed surfaces shall be finished with a Class I clear anodized finish conforming to AA-M12C22A41.
 - c. Where a Kynar finish is approved, exposed surfaces shall be finished with a full-strength 70-percent "Kynar 500" or "Hylar 5000" coating baked on for 15-minutes at 450-deg. F. to dry film thickness of 1.0-mil over 0.3-mil baked on epoxy primer. Custom color.

SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

1. Glazed aluminum curtain walls.
2. Comply with California T24 prescriptive performance requirements for energy performance.
3. Warrant glazed aluminum curtain walls to be free from defects in materials and workmanship for a period of 10-years from date of Substantial Completion.
4. Comply with acoustics narrative Appendix B.
5. Materials:
 - a. Aluminum Members: Alloy, temper, and thickness recommended by manufacturer to comply with specified requirements; ASTM B221 for extrusions, ASTM B209 for sheet and plate.
 - b. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing or wedge-lock dry glazing system of resilient elastomeric glazing gaskets, setting blocks and shims or spacers as required; gasket material and hardness as selected by curtain wall manufacturer.
 - c. Glazing Sealants: As recommended by manufacturer and as specified in Section 08 80 00.
 - d. Framing System Gaskets and Joint Fillers: Curtain wall manufacturer's standard permanent types, depending on joint movement and sealing requirements such as sliding joints, compression joint translation, or non-moving joints.

- e. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum or nonmagnetic stainless steel. Provide non-staining, non-ferrous shims for installation and alignment of curtain wall work.
 - f. Fasteners and Accessories: Manufacturer's standard non-corrosive fasteners and accessories compatible with curtain wall framing system, with exposed portions matching finish of curtain wall system.
 - g. Provide 0.090-inch thick miscellaneous aluminum brake metal closures and flashings as indicated, finished to match glazed aluminum curtain walls. Provide drip flashing at heads; sill pan flashing with back and end dams at sills.
6. Finish:
- a. Where a color anodized finish is required, exposed surfaces shall be finished with a Class I integral or electrolytically-deposited color anodized finish conforming to AA-M12C22A42/A44, color as selected from within standard industry colors and color density range.
 - b. Where a clear anodized finish is indicated, exposed surfaces shall be finished with a Class I clear anodized finish conforming to AA-M12C22A41.
 - c. Where a Kynar finish is indicated, exposed surfaces shall be finished with a full-strength 70-percent "Kynar 500" or "Hylar 5000" coating baked on for 15-minutes at 450-deg. F. to dry film thickness of 1.0-mil over 0.3-mil baked on epoxy primer. Custom color.

SECTION 08 80 00 – GLAZING

- 1. Provide HS (heat-strengthened) coated float glass in place of coated annealed glass where needed to resist thermal stresses.
- 2. Coated Glass: Clear insulating Low E float glass consisting of an outside lite of 1/4-inch thick clear float glass with Low E coating on No. 2 surface, 1/2-inch air space and inside lite of 1/4-inch thick clear float glass. Provide tempered outside and inside lites where required by code.
 - a. Comply with acoustic narrative.
- 3. Low-E Coatings:
 - a. Type 1 Viracon VNE 63, PPG Solarban 70XL, Guardian SNX 62/67, basis of design.
- 4. Exterior Spandrel Glass: Insulating spandrel glass: 1/4" clear outlite with low-e coating Type 1 on the #2 Surface; 1/2" airspace; 1/4" clear inner lite with ceramic frit opacifer on the #4 surface.
- 5. Interior Sound Isolation Glass:
 - a. Comply with acoustic narrative.
 - b. Clear laminated insulating glass consisting of 3/8-inch thick laminated glass or similar composition meeting STC requirements. Glass shall have a minimum STC 45.
- 6. Interior Glass: Clear tempered float glass in non-rated doors and glazed openings, fire-rated glass in fire-rated openings.
- 7. Fire-Rated Glass:

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- a. Fire-Rated Clear Glass at Non-Impact Safety-Rated Locations: Fire-rated, laminated, clear and wireless glass ceramic with premium polished surface finish, 5-mm (nominal 3/16-inch) thick or as required for fire-rating.
 - b. Fire-Rated Clear Safety Glass at Impact Safety-Rated Locations: Fire-rated, laminated, impact safety-rated, clear and wireless glass ceramic with premium polished surfaces, 8-mm (5/16-inch) thick or as required for fire-rating.
 - c. Fire-Rated Radiant Barrier Clear Safety Glass: Fire-rated, impact safety-rated, clear and wireless glazing material consisting of multiple sheets of high visible light transmission glass laminated with intumescent interlayer.
8. Toilet Room Vanity Mirrors: 1/4-inch thick glass mirrors in single piece units for each location.
9. Glazing Materials:
- a. Silicone Glazing Sealant: One-part, acid cure silicone.
 - b. Glazing Tape: Closed-cell polyvinyl chloride foam tape with factory-applied adhesive on both surfaces.
 - c. Glazing Gaskets: Molded or extruded neoprene, EPDM, or silicone gaskets of profile and hardness required to maintain watertight seal.
 - d. Setting Blocks: Neoprene, EPDM or silicone blocks.
 - e. Spacers: Elastomeric blocks or continuous extrusions.
 - f. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement.
 - g. Mirror Mastic: Palmer "Mirro-Mastic" or equal for securing glass mirrors.

END OF DIVISION 08

DIVISION 09 – FINISHES

SECTION 09 21 16.23 - GYPSUM BOARD SHAFT WALL ASSEMBLIES

1. Summary: Shaft wall assemblies at elevators, stairwell shaft enclosures, duct chases, and where shafts are required.
2. Structural Performance Characteristics:
 - a. Lateral Loading: 5-psf.
 - b. Deflection Limit: 1/240 of partition height. 1/360 where supporting plaster; 1/480 where supporting tile.
3. Metal Framing: Galvanized steel conforming to ASTM A653, G40 coating, minimum yield strength 33,000-psi. Formed C-channel section conforming to ASTM C645.
4. Gypsum Board Liner: Liner panel with non-combustible and moisture-resistant gypsum core encased in a water-resistant, mold and mildew resistant, 100-percent recycled blue face and back paper. The panels shall be UL Classified for fire resistance with double beveled edges. Panels shall comply with ASTM C442, C1396 and have an average water absorption of no more than 5-percent by weight after 2-hour immersion in accordance with ASTM C473.
5. Gypsum Board: ASTM C1396, Type X, tapered edges, in maximum lengths available to minimize end-to-end butt joints, thickness required for fire-resistance ratings.
6. Metal Trim: Zinc-coated conforming to ASTM A525, G90 coating designation. Provide corner beads and edge trim.
7. Joint-Treatment Materials: ASTM C475.
 - a. Joint Tape: Paper reinforcing tape.
 - b. Joint Compound: Ready mixed, all-purpose; one grade for bedding tapes and filling depressions, one for second and third coats.
8. Screws: ASTM C954 or C1002.
 - a. Use Type S screws for gypsum board attachment to light steel framing.
 - b. Use Type S-12 screws for gypsum board attachment to 20-gauge and heavier steel framing.
 - c. Use Type G screws for gypsum board attachment to gypsum board.
9. Runner Fasteners: Tempered steel pins with corrosive resistant plating or coating.

SECTION 09 22 16 - NON-STRUCTURAL METAL FRAMING

1. Summary: Interior non-structural metal framing for walls and partitions.
2. Structural Performance Criteria: 1/240 where supporting gypsum board only; 1/360 where supporting plaster; 1/480 where supporting tile.

3. Non-structural metal framing shall have engineering calculations submitted by the Design/Build Entity for the proposed design prior to beginning construction.
4. Comply with acoustical narrative.
5. Metal Studs: Galvanized steel conforming to ASTM A653, G40 coating, minimum yield strength 33,000-psi. Formed C-channel section conforming to ASTM C645.
6. Runner Tracks: Galvanized steel conforming to ASTM A653, G40 coating, minimum yield strength 33,000-psi. Formed channel section conforming to ATM C645 with minimum 1-inch flange width; web depth matching studs.
7. Metal Channels: Galvanized steel conforming to ASTM C653, G40 coating, minimum yield strength 33,000-psi.
 - a. Framing, Furring, and Stiffening:

<u>Size, Inches</u>	<u>Pounds per 1,000 Lineal Feet</u>
3/4 cold rolled	300
1-1/2 cold rolled	475
2 cold rolled	590
 - b. Furring Channels: Minimum 26-gauge galvanized steel with knurled faces; hat-shaped or Z-section as required.
8. Tie Wire: No. 16-gauge, galvanized, single-strand annealed steel or No. 18-gauge, galvanized, double-strand annealed steel.
9. Screws: ASTM C1002, Type S, pan head sheet metal screws, minimum 1/2-inch length.
10. Runner Track Fasteners: Tempered-steel pins with corrosive resistant plating or coating.
11. Install non-load-bearing steel framing members in accordance with ASTM C754.

SECTION 09 22 26.13 - CEILING SUSPENSION SYSTEMS

1. Ceiling suspension systems, including suspended grillage for gypsum board ceilings.
 - a. Proprietary gypsum board suspension systems may be used at Design/Build Entity's option.
2. Ceiling-support system shall limit deflection of finished ceilings to less than L/360.
3. Metal Channels: Galvanized steel conforming to ASTM C653, G40 coating, minimum yield strength 33,000-psi.
 - a. Framing, Furring, and Stiffening:

<u>Size, Inches</u>	<u>Pounds per 1,000 Lineal Feet</u>
3/4 cold rolled	300
1-1/2 cold rolled	475
2 cold rolled	590
 - b. Furring Channels: Minimum 26-gauge galvanized steel with knurled faces; hat-shaped or Z-section.

4. Hanger Wire: Galvanized, soft, mild annealed steel; 8-gauge.
5. Diagonal Bracing Wire: Galvanized, soft, mild annealed steel; 12-gauge.
6. Tie Wire: No. 16-gauge, galvanized, single-strand annealed steel or No. 18-gauge, galvanized, double-strand annealed steel.
7. Screws: ASTM C1002, Type S, pan head sheet metal screws, minimum 1/2-inch length.
8. Hanger and Bracing Wire Fasteners:
 - a. Hanger Wires: Connection device capable of carrying not less than 100-pounds.
 - b. Bracing Wires: Connection device capable of carrying not less than 200-pounds or the actual design load, whichever is greater, with a safety factor of 2 without yielding.
9. Uplift Stiffeners: 25-gauge channel studs, 1-1/2-inches.

SECTION 09 24 00– PORTLAND CEMENT PLASTER

1. DESCRIPTION
 - a. This Section describes the requirements for furnishing and installing the following type(s) of portland-cement plaster:
 - 1) Three coat plaster application over metal lath.
 - b. Related Sections:
 - 1) Gypsum sheathing is specified in Section 06 16 43.
 - 2) Metal lath and accessories are specified in Section 09 22 36.23.
2. SUBMITTALS
 - a. Samples: 12-inch square samples of plaster finish coat.
3. QUALITY ASSURANCE
 - a. Code Requirements: Comply with applicable requirements of California Building Code (CBC) Chapter 25.
 - b. Allowable Tolerances of Finished Surface: Maximum deviation from true plane shall not exceed 1/4-inch as measured from the line of a 10-foot straightedge placed at any location on the surface.
 - c. Field-Constructed Mock-Up: Prior to plastering work, fabricate panels for each type of finish and application required to demonstrate aesthetic effects of application and qualities of materials and application.
 - 1) Locate mock-ups on site where directed by the Architect.
 - 2) Erect a 4-foot x 4-foot mock-up using materials and methods to be incorporated in the work.
 - 3) Demonstrate range of aesthetic effects, including color, texture, and workmanship to be expected in the completed work.
 - 4) Retain and maintain mock-ups during construction in undisturbed condition as a standard for judging completed plaster work.

4. BASE COAT MATERIALS

- a. Approved Manufacturer: BMI 690 Standard with Fibers or approved equal, pre-blended cement-lime-sand mixture formulated for scratch and brown coat.
 - 1) Plaster shall comply with ASTM C926.
 - 2) Portland cement shall comply with ASTM C12250, Type I-II.
 - 3) Lime shall comply with ASTM C206, Type S.
 - 4) Limestone and siliceous graded sands shall comply with ASTM C897.
- b. Water: Clean, potable, and free from substances harmful to plaster.

5. ACRYLIC FINISH COAT MATERIALS

- a. Factory-prepared acrylic finish containing all materials required for finish coat, except water; Parex USA / La Habra, BMI Products, Omega Products International, or approved equal; 20/30 texture, color as selected to match approved sample and mock-up panel.

6. CEMENT PLASTER

- a. Base Coat Mixing:
 - 1) Provide base coat plaster manufacturer's portable mixing silo.
 - 2) Add water and mix for 3- to 5-minutes in accordance with manufacturer's instructions. Do not overmix.
- b. Acrylic Finish Coat Mixing: Mix in accordance with manufacturer's instructions.

SECTION 09 28 13 – CEMENTITIOUS BACKING BOARD

- 1. Cementitious backing board for tiled walls.
- 2. Cementitious Backing Board: Aggregated portland cement board with vinyl-coated, woven glass-fiber mesh embedded in back and front surfaces.
 - a. Thickness: 5/8-inch.
 - b. Size: 3-feet wide; 4, 5, or 6 feet long.
 - c. Faces: Smooth on one side, textured on other side.
 - d. Edges: Formed smooth edges; square cut ends.
 - e. Weight: 3-pounds per square foot.
 - f. Flexural Strength: 750-psi minimum per ASTM C 947.
 - g. Compressive Strength: 2300-psi minimum with 1-inch diameter disk per ASTM D2394.
 - h. Nail Pull Resistance: 125-lbs. minimum per ASTM C473.
 - i. Flame Spread, Smoke Developed: 5, 0 respectively, in accordance with ASTM E84.

3. Joint Reinforcement: Glass-fiber tape, vinyl coated, open-weave tape; 2-inches wide; pressure-sensitive.
4. Fasteners: Self-drilling screws with corrosion resistant finish.
 - a. At Cementitious Backing Board: Provide screws with flat wafer head capable of being driven flush to surface of tile backer board; 1- 1/4-inch long.
 - b. When cementitious backing board is installed over gypsum board base layer, screws shall be 1-5/8-inches long.
6. Setting Materials: Latex-portland cement mortar, ANSI A118.4.

SECTION 09 29 00 - GYPSUM BOARD

1. Gypsum board at interior partitions and ceilings.
2. Gypsum board work shall comply with ASTM C840 and CBC requirements.
3. Installation and finishing of gypsum board shall comply with GA-216.
4. Allowable Tolerances:
 - a. Gypsum board surfaces shall have no measurable variation in any 2-foot direction and a maximum variation of 1/8-inch in 10-feet when a straightedge is laid on the surface in any direction. Specified tolerances apply to both plumbness of walls and levelness of ceilings.
 - b. Shim work as required to comply with specified tolerances.
 - c. Do not exceed 1/16-inch offset between planes of abutting sheets at edges or ends.
5. Fire-Rated Gypsum Board: ASTM C1396, Type X, 5/8-inch thick, with tapered and wrapped long edges.
6. Moisture-Resistant Gypsum Board: ASTM C1396, Type X, 5/8-inch thick, with tapered and wrapped long edges. Provide for exposed and concealed locations at walls of toilet rooms, janitor rooms, and other wet spaces.
7. Screws: ASTM C954 or C1002.
 - a. Use Type S screws for gypsum board attachment to light steel framing.
 - b. Use Type S-12 screws for gypsum board attachment to 20-gauge and heavier steel framing.
 - c. Use Type G screws for gypsum board attachment to gypsum board.
8. Metal Trim: Zinc-coated conforming to ASTM A525, G90 coating designation.
9. Joint-Treatment Materials: ASTM C475.
 - a. Joint Tape: Paper reinforcing tape.

- b. Joint Compound: Ready mixed, all-purpose; one grade for bedding tapes and filling depressions, one for second and third coats.
 - c. Water-Resistant Joint Compound: Use special joint compound to treat joints and cut edges of moisture-resistant gypsum wallboard.
10. Acoustical Accessories:
- a. Comply with acoustical narrative.
 - b. Provide acoustical sheet sealant pad, resilient channels, sound isolation clips and other required accessories.
11. Finish Levels: Unless otherwise scheduled, required finish levels for various areas shall be as follows:
- a. Level 0: In areas of temporary construction, no taping or accessories are required.
 - b. Level 1: In plenum areas above ceilings, attics, electrical closets, and other areas not normally exposed to the public, joints and interior angles shall have tape embedded in joint compound. Surfaces shall be free of excess joint compound. Tool marks and ridges are acceptable.
 - c. Level 2: Not used.
 - d. Level 3: In unoccupied areas, joints and interior angles shall have tape embedded in joint compound and one separate coat of joint compound applied over joints, angles, fastener heads, and accessories. Joint compound shall be smooth and free of tool marks and ridges. Surfaces shall receive lightly textured finish matching approved sample.
 - e. Level 4: In occupied spaces and surfaces exposed to public view, joints and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over joints, angles, fastener heads, and accessories. Joint compound shall be smooth and free of tool marks and ridges. Exposed surfaces shall receive a lightly textured finish matching approved sample.
 - f. Level 5: On wall surfaces in highly visible areas and where directed by the Library's Representative, joints and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over joints, angles, fastener heads, and accessories. A thin skim coat of joint compound or material manufactured especially for this purpose shall be applied to the entire surface. The surface shall be smooth and free of tool marks and ridges.

SECTION 09 30 00 - TILE

- 1. Wall tile and floor tile.
- 2. Tile: Porcelain tile conforming to ANSI and TCNA standards, including matching base, bullnose trim, corners, and other required shapes.
- 3. Latex Portland-Cement Mortar: ANSI A118.4. Mortar shall be approved for use in thin-setting porcelain tile over elastomeric liquid waterproofing specified in Section 07 14 16.

4. Grout Schedule:
 - a. Wall Tile: Commercial portland cement, dry-set, or latex-portland cement.
 - b. Floor Tile: Commercial portland cement, sand-portland cement, dry-set, latex-portland cement or epoxy.
 - c. Toilet Room Floors: Epoxy.
5. Metal Edge Strips: Zinc alloy or stainless steel terrazzo strips, 1/8-inch wide at top edge with integral provision for anchorage to mortar bed or substrate.
6. Interior Floor Tile Installation Methods:
 - a. Thin-set over Concrete Slab: Install over concrete slab in accordance with ANSI A108.5 using TCNA Method F113.
 - b. Thin-set over Waterproofing: Install over waterproof membrane in accordance with ANSI A108.5 using TCNA Method F122. Waterproofing is specified in Section 07 14 16.
 - c. Thin-set over Concrete Slab with Epoxy Grout: Install over concrete slab in accordance with ANSI A108.5 using TCNA Method F115.
7. Interior Wall Tile Installation Methods:
 - a. Thin-set over glass-mat-faced gypsum backing board in accordance with ANSI A108.5 using TCNA Method W245.

SECTION 09 51 13 - ACOUSTICAL CEILING PANELS

1. Comply with acoustical narrative.
2. Acoustical ceiling panels installed in suspended metal grid system.
3. 24-inch x 24-inch Acoustical Panels: Armstrong "Optima", square tegular edge or equal.

SECTION 09 53 23 – METAL ACOUSTICAL CEILING SUSPENSION ASSEMBLIES

1. Acoustical suspension systems for acoustical ceilings.
2. Approved Manufacturers: Armstrong ICC ESR-1308, USG ICC ESR-1222 or equal.
3. Main and Cross Runners: 15/16-inch flange.
4. Wall Angle, Reveals, and Miscellaneous Trim: Roll-formed from electrogalvanized steel strip to profiles indicated.
5. Finish: Factory-applied white low gloss enamel.
6. Structural Classification: Heavy duty.

SECTION 09 54 26 – LINEAR WOOD CEILING PANELS

1. Suspended wood ceilings.
2. Manufacturers: 9Wood, Inc. "Series 1400 Dowel/Cross Piece Grille" or equal.
3. Linear Wood Panels:
 - a. Species: Cherry, clear, solid, vertical grain.

- b. Member Size: 2-1/4-inch x 5/8-inch.
 - c. Edge Profile: Square.
 - d. Members/LF: 4 members / LF
 - e. Assembly Style: 1/2-inch x 1-1/4-inch black crosspiece backer.
 - f. Fire Rating: Class A.
 - g. Stain: To be selected.
 - h. Finish: Clear Interior Finish.
3. Suspension System:
- a. Metal T-Grid Suspension System: Provide standard interior Metal Heavy Duty 15/16" suspension T-Grid system using Main Runners, Cross-tees, Wall Angle or Shadow Moldings of types, structural classifications, and black finishes indicated and that comply with applicable ASTM C635 requirements. Comply with applicable seismic codes and ordinances.
 - b. Attachment Devices: Size for 3 times the design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
 - c. Wire, Braces, Ties, Hanger Rods, Flat Hangers and Angle Hangers: Provide wires, rods and hangers that comply with applicable ASTM specifications.
 - d. Finish: Factory-applied flat black.
5. Acoustical Insulation:
- a. Comply with acoustical narrative.
 - b. Product: Owens Corning "SelectSound Black Acoustical Board" or equal
 - c. Compressive Strength, ASTM C165: 25-psf at 10 percent deformation; 90-psf at 25 percent deformation
 - d. Water Vapor Absorption, ASTM C1104: <3 percent by weight at 120 degree F.
 - e. Fungi Resistance, ASTM C1338: Meets requirements
 - f. Nominal Density, ASTM C303: 3.0 pcf
 - g. Surface Burning Characteristics, ASTM E84: Flame spread 25, smoke developed 50
 - h. Thickness: 2-inch

SECTION 09 61 43 - WATER VAPOR EMISSION AND HUMIDITY TESTING AND CONTROL SYSTEMS

- 1. Summary: Retain and pay for an independent Testing Laboratory to perform moisture vapor emission testing on new concrete slabs to receive adhesively-applied floor covering materials. If testing reveals moisture levels in excess of specified maximums, a floor sealer shall be applied.
- 2. Test Diagram: Prepare a moisture report of each test area. Include name of company performing the test; types of testing instruments used; floor plan of building with each test location identified; starting date, time, and beginning weight; estimate of building temperature; stopping date, time, and ending weight; and computed pounds of emission, including equations.
- 3. Vapor Emission Testing:

- a. Concrete surfaces to be tested shall be clean and free of residue, debris, and sealing compounds.
- b. Perform pre-installation testing of the concrete slab by a calcium chloride test prior to the application of finish flooring. Testing shall be performed by a qualified testing personnel and Testing Laboratory.
- c. Perform three tests for the first 1,000-sq. ft. of flooring and one additional test for each additional 1,000-sq. ft. of flooring. Conduct around the perimeters of the room, at columns and where moisture may be evident.
- d. Tests shall determine the change in weight of moisture-absorbing anhydrous calcium chloride and the results shall represent the amount of moisture transmitting out of the concrete slab area. The value shall be expressed in pounds and shall be equivalent to the weight of the water that is emitted from a 1,000-sq. ft. concrete slab area in a 24-hour period of time.
- e. Unless more restrictive emission levels are required by finish flooring manufacturers, apply floor sealer prior to installation of finish flooring if calcium chloride testing reveals water vapor emission levels greater than 3-pound per 1,000-sq. ft.

SECTION 09 65 13 - RESILIENT BASE AND ACCESSORIES

1. Resilient wall base and accessories.
2. Rubber Wall Base:
 - a. Style: Cove with top-set toe for use with resilient flooring, straight with no toe for use with carpet.
 - b. Height: 4-inches.
 - c. Lengths: Coils in lengths standard with manufacturer but not less than 100-feet.
 - d. Interior and Exterior Corners: Pre-molded or formed on job at installer's option.
 - e. Ends: Pre-molded.
 - f. Color: To be selected.
3. Rubber Accessories: Provide carpet edge for glue down applications, reducer strip for resilient flooring, and tile/carpet transition strips. Color to be selected.
4. Adhesives: VOC-compliant water-resistant type recommended by manufacturer to suit resilient flooring product and substrate conditions indicated.

SECTION 09 65 16 – RESILIENT SHEET FLOORING

1. Resilient rubber flooring vulcanized with a base of natural and synthetic rubbers, stabilizing agents and pigmentation to form a single prefabricated sheet.
2. Warranty: Ten (10) year standard warranty.
3. Fire Performance Characteristics:

- a. Critical Radiant Flux: 0.45-watts per sq. cm or more per ASTM E648
- b. Smoke Density: Less than 450 per ASTM E662.
4. Slip Resistance: Must comply with ASTM D2047 minimum 0.6 rating for floors.
5. Static Load Limit: Must comply with ASTM F970 maximum 0.009in rating.
6. Materials:
 - a. Type: Mondo World Wide/Vulcanized Advanced or equal.
 - b. Color: To be selected.
 - c. Thickness: Minimum 8mm
 - d. Format: Sheets no less than 73 inches wide
 - e. Surface Texture: Smooth
7. Concrete Slab Primer: Non-staining type as recommended by flooring manufacturer.
8. Trowelable Underlayment's and Patching Compounds: Portland-cement-based patching or leveling compound recommended my manufacturer for applications indicated.
9. Adhesives (Cements): VOC-compliant water-resistant type recommended by the manufacturer to suit resilient sheet flooring products and substrate conditions indicated.

SECTION 09 68 13 – TILE CARPETING

1. Carpet tile and cushion backing.
2. Warranty: Fifteen (15) year standard carpet warranty.
3. Fire Hazard Classification: Class I floor finish. Minimum critical flux limit of 0.45-watts/square centimeter when tested in accordance with NFPA 253.
4. Static electricity generation of installed carpet shall not exceed 3.5 KV at 70-deg. F and 20-percent R.H. for life of carpet tile.
5. Indoor Air Quality: Carpet tile shall meet or exceed the minimum standards contained in the Carpet and Rug Industry (CRI) Institute consumer information label.
 - a. Comply with CRI – Carpet and Rug Institute Indoor Air Quality Green Label Testing Program.
 - b. All carpet tile products shall comply with the VOC limit established by the Carpet and Rug Institute (CRI) Green Label Indoor Air Quality Test Program.
6. Material:
 - a. Type: To be selected.
 - b. Yarn system: 100% recycled content nylon.
 - c. Dye Method: 100% solution dyed.

- d. Backing: PVC free, 21oz. felt cushion.

SECTION 09 81 00 - ACOUSTIC INSULATION

- 1. Comply with acoustical narrative.
- 2. Acoustic batt/blanket insulation installed in partitions and above ceilings.
- 3. Unfaced Mineral/Glass Fiber Blanket/Batt Acoustical Insulation: Acoustical insulation produced by combining mineral/glass fibers with thermosetting resins to comply with ASTM C665, Type I.
 - a. Surface Burning Characteristics: Maximum flame spread and smoke developed values of 25 and 50 when tested in accordance with ASTM E84.
 - b. Thickness: 3-inches unless otherwise indicated.

SECTION 09 91 00 – PAINTING

- 1. Painting exposed exterior and interior surfaces.
- 2. Exterior Paint Schedule used as basis of design:
 - a. Ferrous and Non-ferrous Metals: As specified in Section 09 97 13.
 - b. Concrete, 100% Acrylic Flat:
 - 1) First Coat: Acrylic Primer.
 - 2) Second and Third Coats: Exterior Flat.
 - c. Concrete Block, 100% Acrylic Flat:
 - 1) First Coat: Latex Block Filler.
 - 2) Second and Third Coats: Exterior Flat.
 - d. Wood, 100% Acrylic Semigloss:
 - 1) First Coat: Acrylic Primer.
 - 2) Second and Third Coats: Exterior Semi-Gloss.
 - e. Wood, Acrylic Semi-Transparent Stain:
 - 1) First and Second Coats: Acrylic Stain.
- 3. Interior Paint Schedule:
 - a. Wood, 100% Acrylic Low Odor/Zero VOC Semigloss:
 - 1) First Coat: Primer.
 - 2) Second and Third Coats: Latex Semi-Gloss.

- b. Wood, Clear Satin Urethane Finish:
 - 1) First Coat: Quick Dry Sanding Sealer.
 - 2) Second and Third Coats: Acrylic Polyurethane Low Lustre.
- c. Wood, Stain and Satin Urethane Finish:
 - 1) First Coat: Wiping Stain.
 - 2) Second Coat: Quick Dry Sanding Sealer.
 - 3) Third and Fourth Coats: Polyurethane Low Lustre.
- d. Gypsum Board, 100% Acrylic Low Odor/Zero VOC Flat:
 - 1) First Coat: Latex Primer Sealer.
 - 2) Second and Third Coats: Latex Flat.
- e. Gypsum Board, 100% Acrylic Low Odor/Zero VOC Eggshell;
 - 1) First Coat: Latex Primer Sealer.
 - 2) Second and Third Coats: Latex Eggshell Finish.
- f. Gypsum Board, 100% Acrylic Low Odor/Zero VOC Semi-Gloss:
 - 1) First Coat: Latex Primer Sealer.
 - 2) Second and Third Coats: Latex Semi-Gloss.
- g. Ferrous Metal, 100% Acrylic Low Odor/Zero VOC Semi-Gloss:
 - 1) First Coat: Metal Primer.
 - 2) Second and Third Coats: Latex Semi-Gloss.
- h. Non-Ferrous Metal, 100% Acrylic Low Odor/Zero VOC Semi-Gloss:
 - 1) Pretreatment: Etch.
 - 2) First Coat: Metal Primer.
 - 3) Second and Third Coats: Latex Semi-Gloss.
- i. Decorative Metal: As specified in Section 09 97 13.

SECTION 09 97 13 – STEEL COATINGS

- 1. Steel coatings on exterior surfaces and interior decorative metal surfaces.
- 2. Manufacturer: Tnemec Company or equal
- 3. Materials:

- a. Urethane zinc-rich primer, 90-97 Tneme-Zinc
 - 1) Adhesion: Not less than 800-psi pull, average of three trials, ASTM D4541.
 - 2) Salt Spray (Fog): No blistering, cracking, spot rusting or delamination of film. No more than 1/64-inch rust creepage at scribe and no rusting at edges after 3,000-hours exposure, ASTM B117.
 - 3) Solids by Volume: 63.0-percent + or - 2.
 - 4) Metallic Zinc Content: 83.0-percent + or - 2 by weight in dry applied film.

- b. Organic zinc-rich primer, 94-H₂O Hydro-Zinc.
 - 1) Adhesion: Not less than 1500-psi pull, average of three trials, ASTM D4541, Type II
 - 2) Salt Spray (Fog): No blistering, cracking, spot rusting or delamination of film after 10,000 hours. No more than 1/64-inch rust creep at scribe and no rusting at edges after 3,000 hours exposure, ASTM B117.
 - 3) Solids by Volume: Not less than 62 percent + or – 2%.
 - 4) Zinc Dust Content: 83.0-percent + or - 2 by weight in dry applied film.
 - 5) Zinc dust must meet requirements of ASTM D 520 Type III
 - 6) Not more than 100 g/l VOC

- c. Polyamidoamine Epoxy, Series V69 Hi-Build Epoxoline II
 - 1) Abrasion: No more than 140-mg. loss after 1,000-cycles, ASTM D4060, CS-17 Wheel, 1,000 grams load.
 - 2) Adhesion: Not less than 1,600 PSI, ASTM D4541, Type II Fixed Alignment Adhesion Tester.
 - 3) Humidity: No blistering, cracking, softening or delamination of film after 10,000-hours, ASTM D4585.
 - 4) Salt Spray (Fog): No blistering, cracking, or delamination of film. Not more than 1% rusting on plane. Not more than 1/16" rust creep at scribe after 6,700 hours exposure, ASTM B117.
 - 5) Solids by Volume: Not less than 67 percent + or – 2%.
 - 6) Not more than 250 g/l VOC

- d. Polyamidoamine Cured Epoxy, Series L69 Epoxoline.
 - 1) Abrasion: No more than 140-mg. loss after 1,000-cycles, ASTM D4060, CS-17 Wheel, 1,000-grams load.
 - 2) Salt Spray (Fog): No blistering, cracking or delamination of film after 5,000-hours, ASTM B117.

- 3) Adhesion: ASTM D 4541 Type II, not less than 1,500 psi pull avg. of 3 trials.
 - 4) Solids by Volume: Not less than 65 percent + or – 2%.(mixed)
 - 5) Not more than 100 g/l VOC
- e. Aliphatic acrylic polyurethane, Series 1075 Endura-Shield II.
- 1) Abrasion: No more than 139-mg. loss after 1,000-cycles, ASTM D4060, CS-17 Wheel, 1,000 grams load.
 - 2) Adhesion: Not less than a rating of 5, average of three tests, ASTM D3359 Method B.
 - 3) Humidity: No blistering, cracking, softening or delamination of film after 4,000-hours, ASTM D4585.
 - 4) Salt Spray (Fog): No blistering, cracking, rusting or delamination of film. Not more than 1/16” rust creep at scribe after 2,000 hours exposure, ASTM B117.
 - 5) Solids by Volume: Not less than 71 percent + or – 2%.
 - 6) QUV: No blistering, cracking or chalking. No less than 98% gloss retention and 2.25 DED FMCII color change after 5,000 hours exposure, ASTM D 4587.
 - 7) Not more than 250 g/ l VOC
 - 8) Colors: Custom colors to be selected.
- f. Waterborne acrylic polyurethane.
- 1) Abrasion: No more than 83-mg. Loss average of three trials after 1,000-cycles, ASTM D4060, CS-17 Wheel, 1,000-grams load.
 - 2) Adhesion: No less than 1,650 psi average of three trials, ASTM D4541, Type II.
 - 3) Humidity: No blistering, cracking, softening or delamination of film after 2,000-hours, ASTM D4585
 - 4) Salt Spray (Fog): No blistering, cracking, softening or delamination of film and no more than 1/32 inch rust creepage at scribe after 5,000-hours exposure, ASTM B117.
 - 5) QUV: No blistering, cracking or chalking. No less than 98% gloss retention and 2.25 DED FMCII color change after 5,000 hours exposure, ASTM D 4587.
 - 6) Not more than 100 g/ l VOC
 - 7) Solids by Volume: 58.0-percent + or - 2 (mixed).
 - 8) Colors Custom colors to be selected.

4. Coating Schedule:

a. Exterior Use (Non-galvanized Steel)

First Coat: 2.5 to 3.5 mils dry film thickness.

Second Coat: 4.0 to 6.0 mils dry film thickness.

Third Coat: 2.0 to 3.0 mils dry film thickness.

Fourth Coat: 2.0 to 3.0 mils dry film thickness.

Note: Third and fourth coats may be spray applied as a single 4.0-5.0 mil dry film thickness coat provided surface finish requirements are maintained.

b. Exterior Use (Galvanized & Zinc Plated Steel):

Touch-up of damaged galvanized surfaces: 2.5 to 3.5 mils dry film thickness.

First Coat: 2.0 to 3.0 mils dry film thickness.

Second Coat: 2.0 to 3.0 mils dry film thickness.

Third Coat: 2.0 to 3.0 mils dry film thickness.

Note: Second and third coats may be spray applied as a single 4.0-5.0 mil dry film thickness coat provided surface finish requirements are maintained.

c. Interior Use (Non-galvanized Steel):

First Coat: 2.5 to 3.5 mils dry film thickness.

Second Coat: 2.0 to 3.0 mils dry film thickness.

Third Coat: 2.0 to 3.0 mils dry film thickness.

Fourth Coat: 2.0 to 3.0 mils dry film thickness.

Note third and fourth coats may be spray applied as a single 4.0-5.0 mil dry film thickness coat provided surface finish requirements are maintained.

END OF DIVISION 09

DIVISION 10 - SPECIALTIES

SECTION 10 14 00 - SIGNAGE

1. Entrance Signs:
 - a. Building entrances that are accessible to and useable by physically handicapped persons shall be identified with at least one standard accessibility symbol sign and with additional directional signs as required, to be visible to persons along approaching pedestrian ways.
 - b. Comply with CBC Section 11B—216.6.
2. Toilet Room Entry Signage:
 - a. Provide geometric symbols as follows. Colors as selected.
 - 1) Unisex: 12-inch diameter circle with 12-inch equilateral triangle.
 - 2) Comply with CBC Section 11B703.7.2.
 - b. Provide sign with raised letters and Braille on the wall adjacent to the latch outside the door. Where there is no wall space on the latch side and at double leaf doors, provide sign on nearest adjacent wall. Comply with CBC Section 11B-703.4.2.
 - c. Center symbols on door and signs on wall at a height of 60-inches above finished floor.
3. Tactile Stairwell Signs:
 - a. Tactile floor design signs complying with CBC Section 11B-504.8 shall be located at each floor level in enclosed stairways in buildings two or more stories in height to identify the floor level.
 - b. Mount signs 60-inches above floor landing immediately adjacent to the door on the strike side unless otherwise approved by governing authorities.
 - c. Signage shall comply with CBC Section 1023.9.

SECTION 10 22 26 – FOLDING PANEL PARTITION

1. Manually operated, paired glass panel, acoustically rated assemblies.
2. Fire Performance Characteristics: Provide folding glass panel partitions with surface burning characteristics specified, as determined by testing assembled materials composed of surface coverings, backings, and other construction identical to those required in this Section, in accordance with ASTM E84.
 - a. Flame Spread: 25 or less.
 - b. Smoke Developed: 450 or less.
3. Acoustical Performance:
 - a. Comply with acoustical narrative Appendix A.

- b. Sound Transmission Requirements: Folding panel partition assembly tested in a full-scale opening for laboratory sound transmission loss performance in accordance with ASTM E90, determined by ASTM E413 and rated for a STC plus or minus 1.

- 1) Sound Transmission Class (STC): 50 - 52.

- c. Noise Isolation Class (NIC): Folding panel partitions identical to those tested for NIC of 38, when tested in accordance with ASTM E336. In addition, the minimum acceptable noise reductions achieved in any one octave band are as follows:

125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
22 dB	31 dB	38 dB	41 dB	42 dB	42 B

- 4. Warranty: Warrant folding panel partitions to be free from defects in materials and workmanship for a period of 2-years from date of Substantial Completion.

- 5. Modernfold "Acousti-Clear" or approved equal.

- 6. Panels:

- a. Nominally 4-inches thick, to 48-inches in width, and hinged in pairs.

- b. Horizontal and vertical framing members shall be fabricated from 18-gauge formed steel with overlapped and welded corners for rigidity. Frame shall be designed to minimize exposure on face of panels. Color to be selected by Architect.

- c. Top channel shall be reinforced to support suspension system components.

- d. Panel faces shall be clear tempered glass mechanically fastened and sealed in frame and in appropriate thicknesses to meet the specified STC requirements. Tempered glass type to comply with ASTM C1036, ASTM C1048, CPSC 16 CFR 1201 Categories 1 & 2, and ANSI Z97.1.

- e. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.

- f. Panel weight shall be approximately 11.5-psf depending on options and as required to meet specified STC requirements.

- 7. Suspension System:

- a. Track shall be 11-gauge roll-formed steel. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit or plenum sound barrier. Track shall be connected to the structural support by pairs of minimum 3/8-inch diameter threaded steel hanger rods.

- b. Each panel shall be supported by one 4-wheeled carrier. Wheels shall be hardened steel ball bearings encased with molded polymer tires.

- 8. Operation:

- a. Series of paired flat panels hinged together in pairs, manually operated, manually activated, top supported with automatic top and bottom seals.

- b. Automatic Seals:
 - 1) Horizontal seals shall be activated by pressing the edge of the panel into the edge of the adjacent panel or wall.
 - 2) Seal activation requires approximately 15-lbs. of force per panel.
 - c. Final partition closure to be by lever closure panel with expanding jamb which compensates for minor wall irregularities and provides a minimum of 250-lbs. of seal force against the adjacent wall for optimum sound control. The jamb activator shall be located approximately 45-inches from the floor in the panel face and be accessed from either side of the panel. The jamb shall be equipped with a mechanical rack and pinion gear drive mechanism and shall extend 4- to 6-inches by turning the removable operating handle
9. Single pass doors to match the same thickness and appearance as the panels. ADA-compliant pass door and hardware.

SECTION 10 26 00 – WALL PROTECTION

- 1. Flush mount stainless steel corner guards.
- 2. Fire Performance Characteristics: Provide wall surface protection system components that are identical to those tested in accordance with ASTM E84. Identify wall surface protection system components with appropriate markings from the testing and inspection organization.
 - a. Flame Spread: 25 or less.
 - b. Smoke Developed: 450 or less.
- 3. Materials:
 - a. Stainless Steel: AISI Type 304, stainless steel plate, minimum 16-gauge, No. 4 satin finish.
 - b. Fasteners: Nonmagnetic stainless steel metal screws.
 - c. Wing Size: 2-inch x 2-inch

SECTION 10 28 13 - TOILET ACCESSORIES

- 1. Toilet Accessories:
 - a. Sensor activated liquid soap dispensers at sinks.
 - b. Surface mounted sensor activated paper towel dispenser.
 - c. 23 gallon compost bin.
 - d. Mirror, see Section 08 80 00.
 - e. Recessed toilet paper, seat cover and waste receptacle combo unit at each compartment.

- f. Stainless steel grab bars at ADA compartment.
 - g. Recessed baby changing station.
2. Mop Rack: Provide at floor sink in storage rooms.

SECTION 10 70 00 – EXTERIOR SUN CONTROL DEVICES

1. Horizontal Exterior Sun Control
- a. Horizontal Sun Control Devices: Kawneer Company, Inc. "Versoleil SunShade -- Outrigger System", used as Basis for Design
 - b. Color: Match Curtain Wall
2. Materials:
- a. Aluminum Extrusions: ASTM B211, alloy 6063-T5, 6063-T6 or 6061-T6.
 - b. Thermal Barrier: When applied on thermally broken captured system, sunshade shall be thermally isolated from interior mullions by a nominal 0.25 inch thick low conductance material.
 - c. Fasteners: Type 316 Stainless steel, ASTM 307, Grade A or better
 - d. Anchors and Inserts: Stainless steel or hot-dip galvanized.
 - e. Finishes:
 - 1) Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise indicated. Apply finishes in factory. Protect finishes on exposed surfaces prior to shipment. Remove scratches and blemishes from exposed surfaces that will be visible after completing finishing process.
 - 2) 100% Fluoropolymer Resin Powder Coat System complying with AAMA-2605-5 standards for gloss and color retention. Finish thickness to be 1.5 to 3.0 mils.
 - 3) Finish to allow zero VOCs to be emitted into facility of application or at job site.
 - 4) Finish to adhere to a 4H Hardness rating.
 - 5) Furnish manufacturer's twenty (20) year warranty for finish for gloss and color retention

END OF DIVISION 10

DIVISION 12 - FURNISHINGS

SECTION 12 21 23 – ROLL-DOWN SHADES

1. Motorized sunscreen window shades.
2. Window Shade Summary:
 - a. Shade Orientation: Regular-roll, with shade cloth falling at window side of roller.
 - 1) Configuration: Single band shade.
 - b. Shade Cloth: Shade cloth shall meet requirements of FS CCC-C-521E for fire retardancy, NFPA 701 Small-Scale and/or NFPA 701 Large-Scale requirements.
 - 1) Sunscreen Shadecloth: Stain- and fade-resistant, PVC-free, maximum openness percentage 1% or as approved by the Library Representative. Color to match existing library.
 - 2) Black-Out Shadecloth: Stain- and fade-resistant, PVC-free, opaque.
 - c. Shade Fabrication: Fabricate units to completely fill openings from head to sill and jamb-to-jamb.
 - d. Fascia: Extruded aluminum which continuously fits on the end and center brackets as a one-piece section over shade band. Finish with baked enamel finish in custom color.
 - e. Installation Fasteners: Fabricated from metal non-corrosive to window shade hardware and adjoining construction and to support window shade units under conditions of normal use.
 - f. Shade Motors and Motor Control System:
 - 1) Shade Motors: Tubular, asynchronous motors concealed inside shade roller tube with built-in reversible capacitor operating at 110V AC (60hz), single phase, temperature Class A, thermally protected, totally enclosed.
 - 2) Wall Switches: 3-button architectural flush mounted switches with metal cover plates and no exposed fasteners.

SECTION 12 36 61 – SOLID SURFACING COUNTERTOPS

1. Solid surface countertops, sidesplash and backsplash.
2. Warranty: Warrant solid surfacing countertops to be free from defects in materials and workmanship for a period of 10-years from date of Substantial Completion.
3. Fire Test Response Characteristics: Provide with the following Class A (Class I) surface burning characteristics as determined by testing identical products per UL 723 (ASTM E84) or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - a. Flame Spread Index: 25 or less.
 - b. Smoke Developed Index: 450 or less.

4. Material:
 - a. Pattern and Color: To be selected.
 - b. Thickness 3/4-inch
5. Joint Adhesive: Manufacturer's standard VOC-compliant one- or two-part adhesive kit to create inconspicuous, nonporous joints.
6. Sealant: Manufacturer's standard VOC-compliant mildew-resistant, FDA-compliant, NSF 51-compliant (food zone — any type), UL-listed silicone sealant in colors matching components.

END OF DIVISION 12

DIVISION 31 - EARTHWORK

SECTION 31 10 00 - SITE CLEARING

PART 1 - GENERAL

1.01 SUMMARY

- A. Work included: the work of this section includes, but is not limited to the following:
1. Provide labor, material, and equipment required for saw cutting, demolishing, removing, and disposing of existing asphaltic concrete pavement as required, to provide for new work.
 2. Provide surface and subsurface demolition as indicated including backfilling of excavations and depressions.
 3. Prior to start of demolition of facilities, shut-off, disconnect, cut, and cap underground utility services as required.
 4. Remove A.C. pavement driveway and A.C. pavement, concrete pads, and concrete curbing as required.
 5. Remove cyclone wire, wood fences and barricades as required.
 6. Remove storm drainage piping, catch basins, and manholes as required.
 7. Provide tree and shrub protection as required.
 8. Coordinate work with capping or sealing of existing utilities.
 9. Provide disposal of waste and excess materials.

1.02 SUBMITTALS

- A. Comply with requirements of Section 0133 00 – Submittal Procedures.
- B. All permits and certificates required for the project, for record purposes.
- C. Demolition schedule and proposed methods and operations.
- D. Permits and notices authorizing demolition.
- E. Proposed haul route(s) from the demolition worksite to an authorized disposal site.
- F. Permit for transport and disposal of debris.
- G. Arrangements for disposing of waste and excess materials at a legally licensed landfill/disposal facility outside worksite.
- H. Photographs of existing conditions including striping system. File photographs with the Construction Manager (CM) prior to start of work.
- I. Proposed dust control measures.
- J. Proposed noise control measures.
- K. Work Schedule for review: A proposed schedule of work items to be performed, and a description of how the work is to be accomplished.

- L. Report of inspections conducted with the Construction Manager and Engineer both before and after performing work.

1.03 QUALITY ASSURANCE

- A. Comply with the following Standards: American National Standards Institute, Inc. "American National Standard Safety Requirements for Demolition" (ANSI A10.6 and A10.8).
- B. Regulatory Agencies:
 - 1. Comply with rules and regulations of State of California, California Administrative Code, Title 8, Industrial Relations, Chapter 4, Subchapter 4, "Construction Safety Order."
 - 2. Comply with applicable local and state agencies having jurisdiction.
 - 3. Comply with governing EPA notification regulations.
 - 4. Secure all required Permits or Certificates for demolition prior to beginning the work.
- C. Project Conditions:
 - 1. Disposition of Existing Improvements:
 - a. All materials removed shall become the property of the Contractor; dispose of these materials outside the project site.
 - b. Do not dispose of removed materials to the general public by sale, gift or in any other manner at the project site.
 - c. These provisions shall not be construed as limiting or prohibiting sale or disposal of such materials at the Site to duly licensed Contractors or material suppliers. Provided materials are removed from construction site by the Contractor.
 - 2. All removal of debris from the site, including removal of inventory to site of storage, is part of this Contract and shall be done by Contractor's employees and no others.
- D. Salvage:
 - 1. Recycle AC pavement and Class II AB where practical.
- E. Protection:
 - 1. Erect and maintain temporary bracing, shoring, lights, barricades, except construction barricades for subsequent new construction, warning signs, and guards necessary to protect public, employees, adjacent improvements to remain, and adjoining property from damage, all in accordance with applicable regulations.
 - 2. Wet down areas affected by this work as required to prevent dust and dirt from rising.
- F. Scheduling:
 - 1. Coordinate with the Construction Manager in scheduling noisy or dirty work.
- G. Traffic Circulations: Ensure minimum interference with roads, streets, driveways, sidewalks, and adjacent facilities.

1. Minimize obstruction to thoroughfares by first obtaining the required approval or permission of the responsible jurisdiction.
2. Where closing of a vehicular traffic circulation route is necessary, provide adequate directional signs to minimize the potential for confusion. Provide access at all times for emergency vehicles.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas affected by work and verify the following:
 1. The location and layout of crosswalks, striping, and the light guard system.
- B. Where existing conditions conflict with representations of the Contract Documents, notify the Construction Manager and obtain clarifications. Do not perform work affecting the conflicting conditions until clarification of the conflict is received.

3.02 PREPARATION

- A. Verify that the area to be demolished or removed, has been vacated, and adequate space has been made available to perform the work.
- B. Lay out saw cutting and coordinate with related work for which saw cutting is required.

3.03 DEMOLITION

- A. If known or suspected hazardous materials are encountered during operations, stop operations immediately and notify the Owner's Representative.
- B. Perform work in accordance with ANSI A10.6-1969 unless otherwise noted.
- C. Provide noise and dust abatement as required to prevent contamination of adjacent areas.
- D. Remove all materials not designated as salvage, in their entirety.
- E. If unknown items such as human remains are encountered during operations, stop operations immediately and notify the Owner's Representative.

3.04 SAW CUTTING

- A. Make new openings neat.
- B. Take care not to damage existing AC pavement to remain in place.

3.05 PREPARATION FOR NEW AC PAVEMENT

- A. Where demolished surfaces are to receive new AC, Contractor shall restore such substrate to a condition ready to receive the scheduled new AC pavement, including grinding.

3.06 DISPOSAL OF DEMOLISHED MATERIALS

- A. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Burning of demolished materials is prohibited.

3.07 FIELD QUALITY CONTROL

- A. The Owner's Representative will accompany the Contractor before and after performance of work to observe physical condition of existing structures or improvements involved.

PART 4 - MEASUREMENT & PAYMENT

- A. The contract unit price paid for site clearing shall be measured as a lump sum and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in site clearing as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for site clearing shall be considered as included in the contract price paid per lump sum for site clearing and no additional compensation will be allowed therefor.

END OF SECTION 31 10 00

DIVISION 31 - EARTHWORK

SECTION 31 20 00 - EARTH MOVING

PART 1 – GENERAL

1.01 SUMMARY

- A. Provide labor, material and equipment and services necessary to complete the excavations, recompaction and finish grading as specified and indicated on Drawings.
 - 1. Provide Site Grading, cut, fill and finish.
 - 2. Provide excavation and backfill for filling construction, including trenches within building lines.
 - 3. Preparation for subgrade for building slabs, walks, pavements, and landscaping.
 - 4. Provide sub-base course for walks and pavements.
- B. The work includes removal and legal disposal off the site of debris, rubbish and other materials resulting from clearing and grubbing operations.
- C. Work specified in Related Sections:
 - 1. Section 31 10 00 - Site Clearing.
 - 2. Section 32 13 13 - Concrete Paving.

1.02 DEFINITIONS

- A. On-site Material: Soil or earth material obtained from required on-site excavation.
- B. Excavation: Consists of the removal of material encountered to subgrade elevations and the re-use or disposal of materials removed.
- C. Subgrade: The uppermost surface of an excavation or the top surface of a fill or backfill immediately below sub-base, drainage fill, or topsoil materials.
- D. Borrow: Soil material obtained off-site when sufficient approved soil material is not available from excavations.
- E. Base Course: The layer placed between the sub-base and surface pavement in a paving system.
- F. Relative Compaction: In-place dry density of soil expressed as percentage of maximum dry density of same materials, as determined by laboratory test procedure American Society for Testing and Materials (ASTM) D1557.
- G. Subgrade: The uppermost surface of an excavation or the top surface of a fill or backfill immediately below topsoil, rock base course, or drainage fill.

1.03 SYSTEM DESCRIPTION

- A. Requirements:
 - 1. Grades and elevations are to be established with reference to bench marks referenced on Drawings.
 - 2. Maintain engineering markers such as monuments, benchmarks and location stakes. If disturbed or destroyed, replace.
- B. Criteria:
 - 1. The character of the material to be excavated or used for subgrade is not necessarily as indicated.

1.04 SUBMITTALS

- A. Comply with provisions of Section 01 33 00 - Submittals.
- B. Test Reports: Submit following reports for import material directly to Geotechnical Engineer from the Contractor's testing services:
 - 1. Test reports on borrow material.
 - 2. Density test reports.
 - 3. One optimum moisture-maximum density curve for each type of soil encountered.
 - 4. Report of actual unconfined compressive strength and/or results of bearing test of each strata tested.
 - 5. At least one laboratory optimum moisture - maximum dry density curve for each type of soil encountered.
- C. Submit description of dewatering methods proposed for use.
- D. Submit description of vibratory compactors proposed for use when requesting placement of backfill and fill materials in layers greater than 6 inches thick.
- E. Samples:
 - 1. 20-lb. Samples, sealed in airtight containers, of each proposed fill and backfill soil material from on-site or borrow sources.
 - 2. 12-by-12 inch sample of filter fabric.

1.05 QUALITY ASSURANCE

- A. Requirements of regulatory agencies:
 - 1. Comply with State of California Business and Transportation Agency, Department of Transportation (Caltrans) Standard Specifications. (C.D.T. Standard Specifications)
 - 2. Comply with State of California Code of Regulations (CCR).
 - 3. Comply with State of California Construction Safety Orders, Latest Edition (CAL/OSHA).

- B. Soil Testing:
 1. A geotechnical testing agency, to include testing soil materials proposed for use in the work and for quality control testing during excavation and fill operations.
 2. Test results will be distributed in compliance with Section 01 45 29 - Testing and Laboratory Services.

- C. Codes and Standards:
 1. Perform excavation work in compliance with applicable requirements of authorities having jurisdiction.
 2. Storm Water Pollution Prevention and Monitoring Plan to be prepared by others.
 3. Statewide General Permit to Discharge Storm Water associated with construction activity.

- D. Geotechnical Engineering Services:
 1. The Inspector of Record (I.O.R.) or City designated Inspector will be the Owner's Representative to observing grading observations during preparation offsite, excavation, and compactions of fill materials.
 2. Make visits to site to familiarize himself generally with progress and quality of work.
 3. Make field observations and tests to enable him to form opinions regarding adequacy of site preparation, acceptability of fill materials and extent to which earthwork construction and relative compaction comply with specifications requirements.
 4. Examine conditions exposed in foundation excavations.

- E. Site Information:
 1. Additional soil borings and other exploratory operations may be made by Contractor at no cost to the Owner. Submit proposed boring locations for review prior to performing the work.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Protect materials of this section before, during and after installation; objects designated to be retained; and the installed work of other trades.

- B. In the event of damage to any of these items, immediately make repairs or replacements necessary to the acceptance of the Owner's Representative and at no additional cost to the Owner.

- C. Comply with provisions of Section 01 50 00 - Temporary Facilities where necessary to control dust and noise on and near the work caused by operations during performance of the Work.

1.07 PROJECT CONDITIONS

- A. Site Information: Review the Geotechnical Report.

- B. Environmental Requirements:
 1. When unfavorable weather conditions necessitate interrupting filling and grading operations, prepare areas by compaction of surface and grading to avoid collection of water.
 2. Provide adequate temporary drainage to prevent erosion.
 3. After interruption, reestablish compaction specified in last layer before resuming work.
 4. Protect existing storm drainage system from silt and debris resulting from construction

activities. If contamination occurs, remove contamination at no cost to the Owner.

5. Protect existing streams, ditches and storm drain inlets from water-borne soil by means of straw bale dikes, filter fiber dams, or other methods as approved by the Geotechnical Engineer.
- C. Barricade open excavations and post with warning lights.
 1. Comply with requirements of Section 01 50 00 - Temporary Facilities.
 2. Operate warning lights as recommended by authorities having jurisdiction.
 3. Protect structures, utilities, sidewalks, pavements, and other facilities immediately adjacent to excavations, from damages caused by settlement, lateral movement, undermining, washout and other hazards.
 - D. Protection of Subgrade: Do not allow equipment to pump or rut subgrade, stripped areas, footing excavations, or other areas prepared for project.
 - E. At Contractor's option, a working pad of granular material may be laid to protect footing and floor subgrade soils from disruption by traffic during wet conditions.
 - F. Transport all excess soils materials by legally approved methods to disposal areas.
 1. Coordinate with the Owner's Representative.
 2. Sufficient topsoil and fill material shall be retained from the site to complete project requirements.
 3. Any additional topsoil and fill requirements shall be the responsibility of the Contractor.
 - G. Use of explosives will not be permitted.

1.08 EXISTING UTILITIES

- A. Contact local utility agencies prior to construction. Coordinate with local utility companies and the Owner for shut-off of service lines.
- B. Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protection during excavation operations.
- C. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult the Geotechnical Engineer immediately for directions.
 1. Cooperate with the Geotechnical Engineer and public and private utility companies in keeping their respective services and facilities in operation.
 2. Repair damaged utilities to the satisfaction of the Geotechnical Engineer.
- D. Do not interrupt existing utilities serving facilities occupied and used by the Owner or others, except when permitted in writing by Geotechnical Engineer and then only after acceptable temporary utility services have been provided.

1.09 SEQUENCING AND SCHEDULING

- A. The sequence of operations shall be reviewed by the Geotechnical Engineer prior to commencement of any work.
- B. Coordinate operations with relocation of existing utilities.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. General:
 - 1. Fill material will be subject to approval of the Geotechnical Engineer.
 - 2. For approval of imported fill material, notify the Geotechnical Engineer at least 10 days in advance of intention to import material, designate proposed borrow area, and permit the Geotechnical Engineer to sample as necessary from borrow area for purpose of making acceptance tests to prove quality of material.
 - 3. The Geotechnical Engineer's findings on acceptability shall be final and binding.
 - 4. During grading operations, soil types other than those analyzed in the Geotechnical Report for the project, may be encountered.
 - 5. Consult the Geotechnical Engineer to determine the suitability of these soils.
- B. Engineered Fill Material: Soil excavated from site or imported conforming to requirements for fill material contained in Geotechnical Report for this project.
 - 1. Imported materials should have a plasticity index not less than 5 nor greater than 15, as determined by ASTM D4318; and a particle size not exceeding 2 1/2 inches as determined by ASTM D422.
- C. Topsoil: Friable clay loam surface soil found in a depth of not less than 10 inches. Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones and other objects over 2 inches in diameter, and without weeds, roots and other objectionable material.
 - 1. Use topsoil for top 2 feet of fill against exterior walls, except at paving and sidewalks.
 - 2. Topsoil may also be used beyond the area within 5 feet of building, except under paving and sidewalks.
 - 3. Confirm suitability of stockpiled materials.
- D. Graded Rock Base:
 - 1. Bedding for Utility Piping: Washed, uniformly graded mineral aggregate ASTM D448 with percentage composition of dry weight conforming with following limits:
 - a. Passing 1-inch Sieve: 100 percent.
 - b. Passing 3/4-inch Sieve: 90-100 percent.
 - c. Passing No. 4 Sieve: 0-10 percent.
 - 2. Absorption of water to saturated-surface dry condition shall not exceed 3 percent of oven-dry weight of a sample.
- E. Pea Gravel: 3/8 inch to 1/2 inch crushed rock. Use at drainage pipe.
 - 1. Filter Fabric: Provide filter fabrics Mirafi 140N or equal.

- F. Water: Clean and free from deleterious amounts of acids, alkalis, salts and organic matter.

PART 3 – EXECUTION

3.01 GENERAL

- A. Prior to commencement of earthwork, become thoroughly familiar with site conditions.
- B. If discrepancies are found, immediately notify the Geotechnical Engineer in writing, indicating the nature and extent of differing conditions.
- C. No earthwork shall be performed without physical presence or acceptance of the Geotechnical Engineer.
- D. The Geotechnical Engineer's acceptance is required by these specifications; notify the Geotechnical Engineer at least 48 hours prior to commencing any phase of earthwork.
 - 1. No phase of work shall proceed until prior phase has been accepted by the Geotechnical Engineer.
 - 2. Work shall not be covered up or continued until acceptance of the Geotechnical Engineer shall give written notice of conformance with the specifications upon completion of grading.
- E. Compacting:
 - 1. Compact by power tamping, rolling or combinations thereof as accepted by the Geotechnical Engineer.
 - a. Where impractical to use rollers in close proximity to walls, stairs, etc., compact by mechanical tamping.
 - b. Scarify and recompact any layer not attaining compaction until required density is obtained.
 - 2. Compaction by flooding, ponding or jetting will not be permitted.

3.02 SITE PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities which are to remain from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- B. Clearing and Grubbing:
 - 1. Remove from area of designated project earthwork all improvements and obstructions, including designated concrete curbs or slabs, asphaltic concrete, all tree and shrub roots, any buried utility and irrigation lines, and other matter determined by the Geotechnical Engineer to be deleterious.
 - a. In all new planting areas, remove existing base material.
 - b. Use only hand methods for grubbing inside the drip line of trees indicated to be left standing.
 - 2. Remove from the site all trees and shrubs, unless otherwise indicated on the drawings as existing trees to be left standing.
 - 3. Removed material shall become property of the Contractor and shall be removed from site, unless otherwise indicated on the drawings or specified herein.
 - 4. Holes resulting from removal of underground obstructions that extend below finish grades

shall be cleared and backfilled with engineered fill.

5. Existing Trees to remain:
 - a. Verify the locations of existing trees to be preserved.
 - b. Replace existing trees to remain that are damaged during construction at no additional cost to the Owner.

C. Topsoil:

1. Strip topsoil to whatever depths encountered in manner to prevent intermingling with the underlying subsoil or other objectionable material.
2. Remove heavy growths of grass from areas before stripping. Where trees are indicated to be left standing, stop topsoil stripping a sufficient distance to prevent damage to the main root system.
3. Stockpile topsoil in storage piles to freely drain surface water.
4. Cover storage piles if required to prevent windblown dust.

3.03 EXISTING UTILITIES

- A. Protect existing utilities that are to remain in operation as specified.
- B. Demolish and completely remove from the site existing underground utilities indicated to be removed and backfilled with engineering fill and backfill shall be tested during placement.
- C. Movement of construction machinery and equipment over existing pipes and utilities during construction shall be at Contractors risk and all cost shall be borne by the Contractor for any damage of any underground utilities.
- D. Excavation made with power-driven equipment is not permitted within 2 feet of any known utility or subsurface structure.
 1. Use hand or light equipment for excavating immediately adjacent to or for excavations exposing a utility or buried structure.
 2. Start hand or light equipment excavation on each side of the indicated obstruction and continue until the obstruction is uncovered or until clearance for the new grade is assured.
 3. Support uncovered lines or other existing work affected by excavation until approval for backfill is obtained.
 4. Report damage of utility line or subsurface structures immediately to the Geotechnical Engineer.
 5. Expansive fill materials shall be compacted to 87 and 92 relative compaction.

3.04 PREPARATION OF SUBGRADE

- A. Scarify exterior flatwork and pavement subgrade to a depth of at least 6 inches and work until uniform and free from large clods.
 1. Bring expansive subgrades to 2 to 5 percentage points above the optimum moisture content and compact to 90 percent of the maximum laboratory dry density, in accordance with ASTM D1557.
 2. Bring nonexpansive subgrades to or slightly above the optimum moisture content and compact to 90 percent of the maximum laboratory dry density in accordance with ASTM D1557.
 3. Increase compaction of the upper 12 - 18 inches of pavement subgrades to 95 percent of the maximum laboratory dry density per ASTM D1557 for nonexpansive subgrades.

3.05 DEWATERING

- A. Do not allow water from surface drainage or underground sources to accumulate in excavations, unfinished fills, or other low areas.
- B. Provide and maintain ample means and devices to remove water promptly and dispose properly of water entering excavations or other parts of the work to prevent softening of exposed surfaces.
- C. Dewater by methods that will ensure dry excavation and preservation of finish lines and grades of excavation bottoms.
- D. Prior to excavating below ground water level, place dewatering system in operation.
 - 1. Lower the ground water level a minimum of 1 foot below the bottom of the excavation.
 - 2. Relieve the hydrostatic pressure in pervious zones below the subgrade elevation to prevent uplift.
 - 3. Use screens and gravel packs as necessary to prevent removal of fines from the soil.
- E. Operate the dewatering system continuously, 24 hours a day, 7 days a week until construction work below existing ground water level is completed.
 - 1. Measure and record the performance of the dewatering system.
 - a. Perform at the same time each day.
 - b. Use piezometers and observation wells.
 - 2. After placement of initial slabs and backfill, the ground water level may be allowed to rise.
 - a. At no time allow ground water to rise higher than 1 foot below the prevailing level of excavation or backfill.
 - 3. Have a back-up pump and system available for immediate use.
- F. Dispose of water away from the work in suitable manner without damage to adjacent property or menace to public health.
- G. Do not drain water into work being built or under construction without prior acceptance of the Geotechnical Engineer.
- H. Protect existing storm drainage system from silt and debris resulting from construction activities. If contamination occurs, remove contamination at no cost to the Owner.

- A. Excavate subgrade as required to allow for finish grades shown on drawings, as required for structural fill or otherwise required for proper completion of the work.
- B. Remove and replace subgrade materials designated by Geotechnical Engineer as unsuitable.

3.06 FILL AND COMPACTING

- A. General Requirements:
 - 1. Do not place engineered fill or backfill until forms, rubbish and deleterious materials have been removed and areas have been approved by the Geotechnical Engineer.
 - 2. Do not backfill against surfaces to be damp proofed or waterproofed until damp proofing or waterproofing has been completed and accepted.
 - 3. Sequence placement of permeable material with adjacent backfill.
 - 4. Brace and shore footings, walls, etc., against which backfill is to be placed to prevent displacement or damage during placement.
 - 5. Place acceptable soil material in layers to required subgrade elevations, for each area classification listed below.
 - 6. In excavations, use satisfactory excavated or borrow material.
 - 7. Under grassed areas, use satisfactory excavated or borrow material.
 - 8. Under walks and pavements, use base material, or satisfactory excavated or borrow material, or combination of both.
 - 9. Under piping and conduit, use base course material where base course is indicated under piping or conduit, shape to fit bottom 90 degrees of cylinder.
- B. Backfill excavations as promptly as work permits, but not until completion of the following:
 - 1. Acceptance by Geotechnical Engineer of construction below finish grade, including, where applicable, damp proofing, waterproofing, and perimeter insulation.
 - 2. Inspection, testing, approval, and recording of locations of underground utilities.
 - 3. Removal of concrete formwork.
 - 4. Removal of shoring and bracing and backfilling of voids with satisfactory materials. Cut of temporary sheet piling driven below bottom of structures and removal in a manner to prevent settlement of the structure of utilities, unless otherwise noted.
 - 5. Removal of trash and debris from excavated area.
 - 6. Permanent or temporary horizontal bracing is in place on horizontally supported walls.
- C. Compact utility trench backfill placed in or adjacent to buildings and exterior slabs to at least 90 percent of the maximum dry density, per ASTM D1557. Compact the upper 2 feet of the utility trench backfill placed in or adjacent to buildings and exterior slabs and in pavement areas to at least 95 percent of the maximum dry density, per ASTM D1557.
- D. After subgrade compaction has been approved by the Geotechnical Engineer, spread the engineered fill materials in 6 to 8 inch loose lifts and uniformly mixed during the spreading operation.
 - 1. Ring expansive fill materials to a minimum 3 percentage points above the optimum moisture content and compacted to between 85 and 90 percent of the maximum laboratory dry density, per ASTM D1557.

2. Bring nonexpansive fill materials to or slightly above the optimum moisture content and compacted to 90 percent of the maximum laboratory dry density, per ASTM D1557.
 3. Compact of the upper 6 inches of engineered fill within pavement areas to 95 percent for nonexpansive pavement subgrades and to between 90 and 95 percent for expansive pavement subgrades.
 4. Do not compact the top 12 inches of soil in the planting areas.
 5. Fill sections greater than 5 feet in depth shall be compacted to 95 percent.
- E. Repeat compaction procedure until proper grade is attained.
- F. Rocks generated during site earthwork may be used in fill when conforming to material specifications.

3.07 MOISTURE CONTROL

- A. Do not place, spread or roll fill material during unfavorable weather conditions or when fill material is excessively wet.
- B. Do not resume operations until moisture content and fill density are satisfactory to the Geotechnical Engineer.
- C. Provide berms or channels to prevent surface water from flooding excavations. Promptly remove water collecting in depressions.
- D. Where soil has been softened or eroded by flooding or by placement during unfavorable weather, remove damaged areas and recompact as described for fill and compaction. Expansive fill materials shall be compacted to between 87 and 92 percent at a moisture content at least 3 percent above the optimum.
- E. Where subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade, or layer of soil material.
1. Prevent free water appearing on surface during or subsequent to compaction operation.
 2. Remove and replace, or scarify and air dry, soil material too wet to permit compaction to specified density.
 3. Soil material removed because it is too wet to permit compaction may be stockpiled or spread and allowed to dry.
 4. Assist drying by discing, harrowing or pulverizing until moisture content is reduced to a satisfactory value.

3.08 SUBBASE COURSE

- A. General: Subbase course consists of placing subbase material, in layers of the specified thickness, over ground surface to support a pavement base course.
- B. Grade Control: During construction, maintain lines and grades including crown and cross-slope of subbase course.
- C. Shoulders: Place shoulders along edges of subbase course to prevent lateral movement.
1. Construct shoulders of acceptable soil materials placed in such quantity to compact to thickness of each subbase course layer.
 2. Compact and roll a shoulder, minimum 12 inches wide, simultaneously with compacting and rolling each layer of subbase course.

- D. Placement:
1. Place subbase course material on prepared subgrade in layers of uniform thickness, conforming to the indicated cross-section of thickness. Maintain at least optimum moisture content for compacting subbase material during placement operations.
 2. When a compacted subbase course is shown to be 6 inches thick or less, place material in a single layer. When shown to be more than 6 inches thick, place material in equal layers, except no single layer shall be more than 6 inches or less than 3 inches in thickness when compacted.

3.09 PAVEMENT BASE COURSE

- A. General:
1. Place base course material, in layers of specified thickness, over subgrade surface to support pavement.
 2. See other Division 2 Sections for paving specifications.
- B. Grade Control: During construction, maintain lines and grades including crown and cross-slope of subbase course.
- C. Shoulders: Comply with requirements for Subbase Course.
- D. Placement: Comply with requirements for Subbase Course.

3.10 GRADING

- A. General: Uniformly grade areas of work including adjacent transition areas. Smooth finished surface within specified tolerances, compact with uniform levels or slopes between points where elevations are shown, or between such points and existing grades.
- B. Grading Outside Building Lines:
1. Grade areas adjacent to building lines to drain away from structures and to prevent ponding.
 2. Finish surfaces free from irregular surface changes.
- C. Grading Tolerances:
1. Excavations shall not exceed 0.10-foot variation from dimensions and elevations shown or noted, unless otherwise approved by Geotechnical Engineer.
 2. Fill and backfill shall be placed with tolerance of plus or minus 0.10 foot if placed in layers.
 3. Grading shall be done within plus or minus 0.10 foot typically; areas under slabs, walks or pavements shall be graded within tolerance of 0 to 0.10 foot.
 4. Walks: Shape surface of areas under walks to line, grade and cross-section, with finish surface not more than 0.10 foot above or below required subgrade elevation.

- 5. Pavements: Shape surface of areas under pavement to line, grade and cross-section, with finish surface below required subgrade elevation.
- D. Compaction: After grading, compact subgrade surfaces to the depth and percentage of maximum density for each area classification.

3.11 TESTING

- A. Testing Agency Services: Allow testing agency to inspect and test each subgrade and each fill or backfill layer. Do not proceed until test results for previously completed work verify compliance with requirements.
 - 1. Perform field in-place density tests according to ASTM D1557, ASTM D2167 (Rubber Balloon Method), or ASTM D2937 (Drive Cylinder Method), as applicable.
 - a. Field in-place density tests may also be performed by the nuclear method according to ASTM D2922, provided that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D1557.
 - b. With each density calibration check, check the calibration curves furnished with the moisture gauges according to ASTM D3017.
 - c. When field in-place density tests are performed using nuclear methods, make calibration checks of both density and moisture gauges at beginning of work on each different type of material encountered, and at intervals as directed by the Geotechnical Engineer.
 - 2. Trench Backfill: In each compacted initial and final backfill layer, perform at least one filed in-place density test for each 150 feet or less of trench, but not fewer than two tests.
- B. Number and location of test shall be at option of the Geotechnical Engineer.
- C. When testing agency reports that subgrades, fills, or backfills are below specified density, scarify and moisten or aerate, or remove and replace soil to the depth required, recompact and retest until required density is obtained.
- D. After grading is completed and the testing agency has completed observation of the work, permit no further excavation or filling, except as approved by Geotechnical Engineer.

3.12 PROTECTION

- A. Protect newly graded areas from traffic and erosion. Keep free of trash and debris.
- B. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
- C. Where completed compacted areas are disturbed by subsequent construction operation or adverse weather, scarify surface, reshape, compact to required density and provide other corrective work, including retesting, prior to further construction.

3.13 CLEAN-UP

- A. Comply with requirements of Section 01 74 00 Cleaning.
- B. At the conclusion of the work, rake earth areas free of debris and leave them with a uniform, finely surface.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for earth moving shall be measured as a lump sum and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in earthwork as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for earth moving shall be considered as included in the contract price paid per lump sum for earth moving and no additional compensation will be allowed therefor.

END OF SECTION 31 20 00

DIVISION 31 - EARTHWORK

SECTION 31 22 19 - FINISH GRADING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. Drawing and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes landscape finish grading complete, as shown, and as specified.

1.03 PROJECT/SITE CONDITIONS

- A. Dust Nuisance: Assume full responsibility for alleviation or prevention of dust as a result of grading work.

PART 2 – PRODUCTS

Not used.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that the following items have been completed prior to commencement of finish grading:
 1. Installation of stockpiled topsoil and soil preparation including debris removal.
 2. Incorporation of soil amendments.

3.02 INSTALLATION

- A. Finish Grading:
 1. Provide all grades for natural runoff of water without low spots or pockets. Accurately set flow line grades at 0.3 percent minimum for concrete gradients unless otherwise noted in Drawings.
 2. Finish grades shall be smooth, even and on a uniform plane with no abrupt changes of surface. Slope uniformly between given spot elevations.
 3. Grades not otherwise indicated shall be uniform levels or slopes between points where elevations are given, or between points established by walks, paving, curbs or catch basins.
 4. Tops and toes of all slopes shall be rounded to produce a gradual and natural-appearing transition between relatively level areas and slopes.

- B. Tolerances:
1. All planting areas, including lawn areas, shall be true to grade within 1 inch when tested with 10-foot straightedge.
 2. Hold finished grades below top of adjacent pavement, headers, curbs, or walls as follows:
 - a. Shrub, Annual and Groundcover Areas: 1-1/2 inches.
 - b. Sodded Lawn Areas: 1 inch.
 - c. Soil Areas: 1 inch.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for finish grading shall be measured as a lump sum and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in finish grading as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for finish grading shall be considered as included in the contract price paid per lump sum for finish grading and no additional compensation will be allowed therefor.

END OF SECTION 31 22 19

DIVISION 31 - EARTHWORK

SECTION 31 23 33 - TRENCHING AND BACKFILLING

PART 1 – GENERAL

1.01 SUMMARY

- A. Provide labor, material and equipment and services necessary to complete the trenching, underground utility construction, backfilling and compacting as necessary for this project.
 - 1. Obtain permit from local authorities.
 - 2. Provide surveying for trenching operations.
 - 3. Provide shoring design.
 - 4. Provide dewatering operations.
 - 5. Utility line trenching and backfilling. Excavation backfilling for underground mechanical and electrical utilities, structures and related appurtenances.

- B. Work specified in Related Sections:
 - 1. Section 31 10 00 - Site Clearing.
 - 2. Section 32 12 16 - Asphalt Paving.
 - 3. Section 32 13 13 - Concrete Paving.
 - 4. Section 33 40 00 - Storm Drainage Utilities.

1.02 DEFINITIONS

- A. Engineered Fill:
 - 1. Soil or soil-rock material approved by the Geotechnical Engineer and transported to the site by the Contractor in order to raise grades or to backfill excavations.
 - 2. The Contractor's Testing Agency will make sufficient tests and/or observations for the purpose of issuing a written statement that specification requirements are met.

- B. On-site Material: Soil or earth material obtained from required on-site excavation.

- C. Excavation: Consists of the removal of material encountered to subgrade elevations and the re-use or disposal of materials removed.

- D. Subgrade: The uppermost surface of an excavation or the top surface of a fill or backfill immediately below sub-base, drainage fill, or topsoil materials.

- E. Borrow: Soil material obtained off-site when sufficient approved soil material is not available from on-site excavations.

- F. Base Course: The layer placed between the sub-base and surface pavement in a paving system.

- G. Relative Compaction: In-place dry density of soil expressed as percentage of maximum dry density of same materials, as determined by laboratory test procedure American Society for Testing and Materials (ASTM) D1557.
- H. Subgrade the uppermost surface of an excavation or the top surface of a fill or backfill immediately below top soil, rock base course, or drainage fill.

1.03 SYSTEM DESCRIPTION

- A. Requirements:
 - 1. Grades and elevations are to be established with reference to bench marks referenced on Drawings.
 - 2. Maintain engineering markers such as monuments, benchmarks and location stakes. If disturbed or destroyed, replace.
- B. Criteria:
 - 1. The character of the material to be excavated or used for subgrade is not necessarily as indicated.
 - 2. Blasting will not be permitted. Remove material in an approved manner.
- C. Shoring Design: Where shoring is required by State Law or determined by the Contractor to be necessary, provide proposed excavation shoring method for review prior to commencement of excavation requiring shoring. Include the following information:
 - 1. Basic design assumptions.
 - 2. Design Calculations.
 - 3. Describe materials or shoring system to be used.
 - 4. Indicate whether or not any components will remain after filling or backfilling.
 - 5. The shop drawings for the proposed shoring system.
 - 6. Coordinate with the Contract Documents and identify any proposed modifications or deviations.
 - 7. Certification of the above by a Registered Professional Civil or Structural Engineer licensed by the State of California.
- D. Dewatering Plan: Based upon site surface and subsurface conditions, including available geotechnical and hydrological data, provide a system to perform the following:
 - 1. Lower the ground water level a minimum of 1 foot below the bottom of the excavation.
 - 2. Relieve the hydrostatic pressure below the subgrade to prevent uplift.
 - 3. Prevent surface drainage from accumulating within work area.
 - 4. Legally discharge and dispose of excess water.
 - 5. Submit description of basic components of proposed dewatering system and its planned method of operation.

1.04 SUBMITTALS

- A. Comply with provisions of Section 01 33 00 - Submittals.
- B. Test Reports: Submit following reports for import material directly to Engineer from the Contractor's testing services:
 - 1. Test reports on borrow material.
 - 2. Density test reports.
 - 3. One optimum moisture-maximum density curve for each type of soil encountered.
 - 4. Report of actual unconfined compressive strength and/or results of bearing test of each strata tested.
 - 5. At least one laboratory optimum moisture - maximum dry density curve for each type of soil encountered.
- C. Shoring Design: Submit 4 copies of shoring design and shop drawings; none will be returned unless a concern is observed.
- D. Submit description of dewatering methods proposed for use.
- E. Submit description of vibratory compactors proposed for use when requesting placement of backfill and fill materials in layers greater than 6 inches thick.
- F. Samples:
 - 1. 20-lb. samples, sealed in airtight containers, of each proposed fill and backfill soil material from on-site or borrow sources.
 - 2. 12-by-12 inch sample of filter fabric.

1.05 QUALITY ASSURANCE

- A. Requirements of Regulatory Agencies:
 - 1. Comply with State of California Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications." (CSS)
 - 2. Comply with State of California Code of Interpretations (CCR).
 - 3. Comply with State of California Construction Safety Orders, Latest Edition (CAL/OSHA).
- B. Soil Testing:
 - 1. The Contractor will engage a geotechnical testing agency, to include testing soil materials proposed for use in the work and for quality control testing during excavation and fill operations.
- C. Codes and Standards:
 - 1. Perform excavation work in compliance with applicable requirements of authorities having jurisdiction.
 - 2. Storm Water Pollution Prevention and Monitoring Plan.
 - 3. Statewide General Permit to Discharge Storm Water associated with construction activity.
- D. Geotechnical Engineering Services:
 - 1. Geotechnical Engineer will be observing grading observations during preparation offsite, excavation, and compaction of fill materials.

2. Make visits to site to familiarize himself generally with progress and quality of work.
3. Make field observations and tests to enable him to form opinions regarding adequacy of site preparation, acceptability of fill materials and extent to which earthwork construction and relative compaction comply with specifications requirements.
4. Examine conditions exposed in foundation excavations.

E. Site Information:

1. Additional soil borings and other exploratory operations may be made by Contractor at no cost to the Owner. Submit proposed boring locations for review prior to performing the work.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Protect materials of this section before, during and after installation; objects designated to be retained; and the installed work of other trades.
- B. In the event of damage to any of these items, immediately make repairs or replacements necessary to the acceptance of the Owner's Representative and at no additional cost to the Owner.
- C. Comply with provisions of Section 01 50 00 - Temporary Facilities and Control, where necessary to control dust and noise on and near the work caused by operations during performance of the Work.

1.07 PROJECT CONDITIONS

A. Environmental Requirements:

1. When unfavorable weather conditions necessitate interrupting filling and grading operations, prepare areas by compaction of surface and grading to avoid collection of water.
2. Provide adequate temporary drainage to prevent erosion.
3. After interruption, reestablish compaction specified in last layer before resuming work.
4. Protect existing storm drainage system from silt and debris resulting from construction activities. If contamination occurs, remove contamination at no cost to the Owner.
5. Protect existing streams, ditches and storm drain inlets from water-borne soil by means of straw bale dikes, filter fiber dams, or other methods as approved by the Engineer.

B. Barricade open excavations and post with warning lights.

1. Comply with requirements of Section 01 50 00 - Temporary Facilities and Control.
2. Operate warning lights as recommended by authorities having jurisdiction.
3. Protect structures, utilities, sidewalks, pavements, and other facilities immediately adjacent to excavations, from damages caused by settlement, lateral movement, undermining, washout and other hazards.

- C. Protection of Subgrade: Do not allow equipment to pump or rut subgrade, stripped areas, footing excavations, or other areas prepared for project.
- D. At Contractor's option, a working pad of granular material may be laid to protect footing and floor subgrade soils from disruption by traffic during wet conditions.
- E. Transport all excess soils materials by legally approved methods to disposal areas.
- F. Coordinate with the Construction Manager or Owner or Owner Representative and Geotechnical Engineer.
- G. Sufficient topsoil and fill material shall be retained from the site to complete project requirements.
 - 1. Any additional topsoil and fill requirements shall be the responsibility of the Contractor.
- H. Use of explosives will not be permitted.

1.08 EXISTING UTILITIES

- A. Contact local utility agencies prior to construction. Coordinate with local utility companies for shut-off of service lines.
- B. Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protection during excavation operations.
- C. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult utility Owner immediately for directions.
 - 1. Cooperate with the Owner and public and private utility companies in keeping their respective services and facilities in operation.
 - 2. Repair damaged utilities to the satisfaction of the utility owner.
- D. Do not interrupt existing utilities serving facilities occupied and used by the Owner or others, except when permitted in writing by Engineer and then only after acceptable temporary utility services have been provided.

1.09 SEQUENCING AND SCHEDULING

- A. The sequence of operations shall be reviewed by the Engineer, prior to commencement of any work.
- B. Coordinate operations with relocation of existing utilities.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. General:
 - 1. Fill material will be subject to approval of the Geotechnical Engineer.
 - 2. For approval of imported fill material, notify the Geotechnical Engineer at least 7 days in advance of intention to import material, designated proposed borrow area, and permit the

- Geotechnical Engineer to sample as necessary from borrow area for purpose of making acceptance tests to prove quality of material.
3. The Geotechnical Engineer's report on acceptability shall be final and binding.
 4. During grading operations, soil types other than those analyzed in the Geotechnical Report for the project, may be encountered.
 5. Consult the Geotechnical Engineer to determine the suitability of these soils.
- B. Sand: Clean, well-graded fine to coarse sand with not more than 2 percent passing the #200 sieve based on wet sieve analysis.
1. Provide 2-inch layer under building slabs on grade.
 2. Provide layer at least two feet wide (thick) against embedded walls.
 3. Provide at other locations indicated.
 4. Where coarse sand is required, provide sand no finer than No. 40 sieve.
- C. Graded Rock Base:
1. Bedding for Utility Piping: Washed, uniformly graded mineral aggregate ASTM D448 with percentage composition of dry weight conforming with following limits:
 - a. Passing 1-inch Sieve: 100 percent.
 - b. Passing 3/4-inch Sieve: 90-100 percent.
 - c. Passing No. 4 Sieve: 0-10 percent.
 2. Base at Slab-on-Grade: As specified in the Geotechnical Report for this project.
 3. Absorption of water to saturated-surface dry condition shall not exceed 3 percent of oven-dry weight of a sample.
- D. Pea Gravel: 3/8 inch to 1/2 inch washed, uncrushed gravel. Use at drainage pipe and at other locations indicated.
- E. Water: Clean and free from deleterious amounts of acids, alkalis, salts and organic matter.

PART 3 – EXECUTION

3.01 GENERAL

- A. Prior to commencement of work, become thoroughly familiar with site conditions.
- B. If event discrepancies are found, immediately notify the Owner's Representative in writing, indicating the nature and extent of differing conditions.
- C. The Geotechnical Engineer's acceptance is required by these specifications; notify the Engineer at least 48 hours prior to commencing work.
 1. Work shall not be covered up or continued until acceptance of the Geotechnical Engineer shall give written notice of conformance with the specifications upon completion of grading.
- D. Compacting:
 1. Compact by power tamping, rolling or combinations thereof as accepted by the Geotechnical Engineer.
 - a. Where impractical to use rollers in close proximity to walls, stairs, etc., compact by mechanical tamping.

- b. Scarify and recompact any layer not attaining compaction until required density is obtained.
2. Compaction by flooding, ponding or jetting will not be permitted, unless specifically accepted by the Geotechnical Engineer.

3.02 SITE PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities which are to remain from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

3.03 EXISTING UTILITIES

- A. Protect existing utilities that are to remain in operation as specified.
- B. Demolish and completely remove from the site existing underground utilities indicated to be removed.
- C. Movement of construction machinery and equipment over existing pipes and utilities during construction shall be at contractor's risk.
- D. Excavation made with power-driven equipment is not permitted within 2 feet of any known utility or subsurface structure.
 1. Use hand or light equipment for excavating immediately adjacent to or for excavations exposing a utility or buried structure.
 2. Start hand or light equipment excavation on each side of the indicated obstruction and continue until the obstruction is uncovered or until clearance for the new grade is assured.
 3. Support uncovered lines or other existing work affected by excavation until approval for backfill is obtained.
 4. Report damage of utility line or subsurface structures immediately to the Engineer.

3.04 DEWATERING

- A. Do not allow water from surface drainage or underground sources to accumulate in excavations, unfinished fills, or other low areas.
- B. Provide and maintain ample means and devices to remove water promptly and dispose properly of water entering excavations or other parts of the work to prevent softening of exposed surfaces.
- C. Dewater by methods that will ensure dry excavation and preservation of finish lines and grades of excavation bottoms.
- D. Prior to excavating below ground water level, place dewatering system in operation.
 1. Lower the ground water level a minimum of 1 foot below the bottom of the excavation.
 2. Relieve the hydrostatic pressure in pervious zones below the subgrade elevation to prevent uplift.
 3. Use screens and gravel packs as necessary to prevent removal of fines from the soil.
- E. Operate the dewatering system continuously, 24 hours a day, 7 days a week until construction work below existing ground water level is completed.

1. Measure and record the performance of the dewatering system.
 - a. Perform at the same time each day.
 - b. Use piezometers and observation wells.
 2. After placement of initial slabs and backfill, the ground water level may be allowed to rise.
 - a. At no time allow ground water to rise higher than 1 foot below the prevailing level of excavation or backfill.
 3. Have a back-up pump and system available for immediate use.
- F. Dispose of water away from the work in suitable manner without damage to adjacent property or menace to public health.
- G. Do not drain water into work being built or under construction without prior acceptance of the Engineer.
- H. Protect existing storm drainage system from silt and debris resulting from construction activities. If contamination occurs, remove contamination at no cost to the Owner.

3.05 TRENCHING

- A. Trenching of open vertical construction shall have sufficient width to provide free working space at both sides of pipe as required for caulking, joining, backfilling and compacting.
- B. Where invert elevations are not shown and minimum cover is not specified, trench to sufficient depth to give minimum of 30 inches of fill above top of exterior pipe measured from adjoining finish grade.
- C. Backfill trenches with concrete where trench excavations pass within 18 inches of column or wall footings and which area carried below the bottom of such footings, or which pass under wall footings. Place concrete to the level of the bottom of adjacent footing.
- D. Where trench excavation is inadvertently carried below proper elevations, backfill with specified sand or gravel and compact to provide a firm and unyielding subgrade and/or foundation to approval of Owner's Representative and at no additional cost to Owner.
- E. Support trench excavations in compliance with local codes and safety regulations.
- F. Brace, sheet and support trench walls in such a manner that they will be safe, that ground alongside excavation will not slide or settle, and that existing improvements of every kind, either on public or private property, will be fully protected from damage.
- G. Arrange bracing, sheeting and shoring so as not to place stress on any portion of completed work until it has proceeded far enough to provide ample strength.
- H. Do not backfill trenches until tests and inspections have been made. Use care in backfilling to avoid damage or displacement of pipe systems.

3.06 FOUNDATION FOR PIPES

- A. Grade trench bottom to provide smooth, firm and stable foundation at every point throughout length of pipe.
- B. Place pipe barrel on minimum of 6 inches of cohesionless material meeting requirements of article 2.14 above.

- C. Remove soft, unstable materials encountered at surface where cohesionless material is to be placed and replace with material approved by the Engineer.
 - 1. Excavate to sufficient depth to develop firm foundation for pipe.
 - 2. If need for such over-excavation is due to action by or failure to act by Contractor, make replacements at no additional cost to the owner.
- D. Recess bottom of bedding at pipe joints as required to relief bell of pipe of all load to ensure continuous bearing of pipe barrel on firm foundation.
- E. Accurately shape subgrade and fit bottom of pipe to excavation.
 - 1. Use drag template conforming to outer surface of pipe if other methods do not produce satisfactory results.

3.07 FILL AND COMPACTING

- A. Backfill trenches as promptly as work permits, but not until completion of the following:
 - 1. Inspection, testing, approval, and recording of locations of underground utilities.
 - 2. Removal of shoring and bracing and backfilling of voids with satisfactory materials. Cut of temporary sheet piling driven below bottom of structures and removal in a manner to prevent settlement of the structure of utilities, unless otherwise noted.
- B. Compact utility trench backfill placed in or adjacent to buildings and exterior slabs to at least 90 percent of the maximum dry density, per ASTM D1557. Compact the upper 2 feet of the utility trench backfill placed in or adjacent to buildings and exterior slabs and in pavement areas to at least 95 percent of the maximum dry density, per ASTM D1557.
- C. Repeat compaction procedure until proper grade is attained.

3.08 MOISTURE CONTROL

- A. Do not resume operations until moisture content and fill density are satisfactory to the Geotechnical Engineer.

- B. Where soil has been softened or eroded by flooding or by placement during unfavorable weather, remove damaged areas and recompact as described for fill and compaction.
- C. Where subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade, or layer of soil material.
 - 1. Prevent free water appearing on surface during or subsequent to compaction operation.
 - 2. Remove and replace, or scarify and air dry, soil material too wet to permit compaction to specified density.
 - 3. Soil material removed because it is too wet to permit compaction may be stockpiled or spread and allowed to dry. Assist drying by discing, harrowing or pulverizing until moisture content is reduced to a satisfactory value.

3.09 BACKFILL DENSITY TESTING

- A. Testing Agency Services: Allow testing agency to inspect and test each backfill layer. Do not proceed until test results for previously completed work verify compliance with requirements.
 - 1. Trench Backfill: In each compacted initial and final backfill layer, perform at least one filed in-place density test for each 150 feet or less of trench, but not fewer than two tests.
- B. Number and location of test shall be at option of the Geotechnical Engineer.
- C. When testing agency reports that backfills are below specified density, scarify and moisten or aerate, or remove and replace soil to the depth required, recompact and retest until required density is obtained.

3.10 PROTECTION

- A. Protect newly graded areas from traffic and erosion. Keep free of trash and debris.
- B. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
- C. Where completed compacted areas are disturbed by subsequent construction operation or adverse weather, scarify surface, reshape, compact to required density and provide other corrective work, including retesting, prior to further construction.

3.11 CLEAN-UP

- A. Comply with requirements of Section 01 74 00 – Cleaning and Waste Management.
- B. At the conclusion of the work, rake earth areas free of debris and leave them with a uniform, finely surface.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for trenching and backfilling shall be measured as lineal feet and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in concrete paving as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for trenching and backfilling shall be considered as included in the contract price paid per lump sum for trenching and backfilling and no additional compensation will be allowed therefor.

END OF SECTION 31 23 33

DIVISION 32 – EXTERIOR IMPROVEMENTS

SECTION 32 12 16 - ASPHALT PAVING

PART 1 – GENERAL

1.01 SUMMARY

- A. The extent of the asphalt concrete paving work including depths of the pavement section is shown on the drawings. This Section describes:
 - 1. Aggregate base.
 - 2. Asphalt concrete surface.
 - 3. Fog seal coat.
 - 4. Pavement fabric.
 - 5. Header boards and stakes.
 - 6. Crack Seal.

1.02 SUBMITTALS

- A. Comply with provisions of Section 01 33 00 - Submittals.
- B. Material list including certification of compliance with specified standards.
- C. Manufacturer's literature describing products.
- D. Samples: Only as requested by the Engineer.

1.03 QUALITY ASSURANCE

- A. Comply with the following Standards:
- B. State of California, Business and Transportation Agency, Department of Transportation's "Standard Specifications", (CSS).
- C. Federal Specifications (FS).
- D. Redwood Inspection Service's "Standard Specifications for Grades of California Redwood Lumber", with Supplements No. 1 and 2 (RIS).
- E. American Society for Testing and Materials (ASTM).
- F. Comply with requirements of regulatory agencies:
 - 1. State of California Code of Regulations (CCR).
 - 2. State of California Construction Safety Orders, Latest Edition (CAL/OSHA).

1.04 PROJECT CONDITIONS

- A. Prior to placing asphalt concrete, or base fill material:
 - 1. Verify that all underground utilities and drainage systems have been installed and backfilled.
 - 2. Verify that each of the utility companies having facilities within the work area have notified the Engineer that the utility installation has satisfactorily passed acceptance tests.
- B. Environmental Requirements:
 - 1. Do not place asphalt concrete when atmospheric temperature is below 50 degrees Fahrenheit or when weather conditions are unsuitable to material being placed.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Asphalt concrete shall be Type B (medium) and shall be of the thickness as shown on the Plans or as specified in the Special Provisions. Maximum Aggregate size shall be as follows:

Thickness AC	Max. Agg.
1" and 1-1/2" Surface Course	1/2"
2" and 2-1/2" Surface Course	3/4"
Base Course	3/4"
- B. The prime coat shall be liquid asphalt (SC-70) conforming to the requirements of Section 93, "Liquid Asphalts," of the Standard Specifications. As much liquid asphalt shall be applied to the prepared base as will soak in during a twenty-four (24) hour period without puddling. Sand cover shall be applied at driveways, intersections and to the roadbed surface where continuous traffic access must be maintained.
- C. Paint binder (asphaltic tack coat) shall be asphaltic emulsion Grade SS-1h, and shall conform to the requirements of Section 94, "Asphaltic Emulsions," of the Standard Specifications. The rate of application shall be approximately 0.05 to 0.15 gallon per square yard. The exact rate of application will be determined by the Engineer. A one-to-one (1:1) dilution of SS-1h in water shall be used. It is important that the water be added to the emulsion, NOT the emulsion to the water, to prevent premature breaking.
- D. Newly installed asphalt concrete shall be fog sealed in accordance with Section 19, "Fog Seal," of these Standard Provisions.

2.01 STORING, PROPORTIONS AND MIXING

- A. Asphalt concrete materials shall be stored, proportioned and mixed in accordance with CSS Section 39.3.

2.03 SOURCE QUALITY CONTROL

- A. Provide mix design for asphalt in accordance with provisions of Section 01 45 29 – Testing and Laboratory Services.
- B. Submit proposed asphalt mix design prior to commencement of work.
- C. Asphalt Concrete Test Reports and Certification.
 - 1. Provide certified copies of the test report at the time of delivery of each shipment of asphalt.
 - 2. The test report shall indicate:
 - a. Name of the vendor.
 - b. Type and grade of asphalt delivered.
 - c. Date and point of delivery.
 - d. Quantity delivered.
 - e. Delivery ticket number.
 - f. Purchase order number.
 - g. Results of the specified tests.
 - 3. Provide certified test report that the product delivered conforms to the Specifications for the type and grade indicated.
 - 4. The certified test reports and the testing required in connection with the reports shall be at no additional cost to the Owner.
 - 5. Final acceptance will be dependent upon the determination by the Engineer that the material involved fulfills the prescribed requirements.
- D. Certificates: Provide the Engineer with a material certificate signed by the material producer and the Contractor, certifying that each material item complies with, or exceeds specified requirements.
- E. Obtain materials from same source throughout duration of Project.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive asphalt concrete and verify following:
 - 1. Related work such as drainage structures, grates, frames, curbs, headers, and adjacent paving have been set at proper elevations or that conditions will permit adjustment to proper elevations.
 - 2. Receiving surfaces are not wet.
 - 3. Other conditions that adversely affect execution of this work.
- B. Do not start work until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Subgrade:

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1. Prepare subgrade in accordance with the requirements of Section 33 05 00 – Common Work Results for Utilities.
 2. Ensure receiving areas are true to line and grade, dry, firm, properly prepared, and free from loose or foreign materials.
- B. Do not proceed until subgrade has been inspected and approved by Geotechnical Engineer.
- C. Notify Engineer 48 hours in advance of performing paving work.

3.03 INSTALLATION

- A. Aggregate Base: Spread and compact in accordance with CSS Section 26, to thickness, lines, and grades noted on Drawings.
- B. Paint Binder: Supply at rate of 0.05 to 0.10 gallon per square yard to all vertical surfaces of curbs, gutters, and construction joint in surfacing against which additional material is to be placed in accordance with CSS Section 39-4.02.
- C. Reinforcing Fabric:
1. Clean existing and recently patched asphalt pavement that is to be fabric-overlaid to remove all materials such as, but not limited to, leaves, vegetation, and trash.
 2. Tack Coat Application; apply a tack coat of paving asphalt to all surfaces to receive fabric. Apply the tack coat as follows:
 - a. At a uniform rate of 0.25 gallons per square yard.
 - b. By suitable metered truck recently calibrated by California Test Method No. 399A.
 - c. At an asphalt temperature between 250 degrees F and 375 degrees F.
 - d. For full width of the fabric plus 3 inches on each side.
 - e. Distance in advance of the fabric application and overlay no farther than can be maintained free of traffic.
 3. Installation:
 - a. General; install reinforcing fabric in accordance with CSS Standard Specifications Section 39.403, unless otherwise directed by the Construction Manager.
 - b. Allow no traffic on the fabric plus 3 inches on each side.
 - c. Install no more fabric than can be overlaid in the same working day. In the event that some installed fabric is not overlaid, traffic will be prevented from traveling on the exposed fabric.
 - d. Overlap fabric joints 2 to 4 inches, but in no case shall the fabric shall overlap the previously placed fabric by the same amount.
 - e. Lay fabric free of wrinkles and bubbles at lap. Wrinkles that raise 1/2 inch or more above the mat (when gathered together) shall be slit and laid flat so as not to be picked up by the paving machine.
 - f. Cut fabric neatly around manhole covers, valve boxes, etc. to allow for the raising of same to finish grade.
 - g. If there are wrinkles and folds in the fabric, pneumatically roll the fabric after it is placed to remove such wrinkles and folds and to increase the bond of the fabric with the existing pavement.
 - h. Should the fabric be picked up by the paving machine's treads/wheels, additional tack coat or asphalt cement shall be placed under the fabric before it is replaced.
 - i. Compaction shall be a minimum of ninety-five percent (95%) of the laboratory maximum density of the asphalt concrete. Laboratory maximum density shall be

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determined by field samples submitted to a testing laboratory by the Engineer. Cost for testing shall be paid by the Owner.

- j. Surface course layer of asphalt concrete shall not exceed two and one-half inches (2-1/2") nor be less than one and one-half inches (1-1/2") in compacted thickness.
- k. The Contractor is required to provide adequate protection of the subgrade, aggregate subbase, aggregate base and other materials if the asphalt concrete pavement is not placed within a specified time as determined by the Engineer.
- l. Retesting of the subgrade, aggregate subbase, aggregate base or other material will be required and will be paid for by the Contractor, if the asphalt concrete pavement is not placed within a specified time as determined by the Engineer.

D. Asphalt Concrete:

- 1. Proportion, mix, place, spread and compact asphalt concrete in layers in conformance with Section 39 of the CSS Standard Specifications.
 - a. Use a minimum of 8-ton self-propelled rollers.
 - b. No layer of asphalt concrete shall be less than 1 inch in compacted thickness, nor shall any layer exceed the maximum thickness allowed in Section 39.
- 2. Provide smooth side and water-resistant surface, true within tolerances specified, and free of birdbaths.
- 3. Bring asphalt concrete to edges or concrete curbs, gutters, adjacent paving, and header boards; do not overlap these items.
- 4. Roll surfaces longitudinally; cross rolling will be required where space permits.

E. Existing Asphalt Concrete Paving:

- 1. Repair damage caused by construction operations and restore to condition prior to construction.
- 2. Restoration may be accomplished by patching defects, resurfacing, completely replacing, or combination of these measures, but measure taken shall be adequate for work of restoration required and is subject to the Engineer's prior approval.
- 3. Pavement Fabric: When shown on the Drawings, pavement provisions of CSS Section 39-4.03.
- 4. Pavement Repair: All existing pavement to receive an asphalt concrete overlay (with or without reinforcing fabric) shall be repaired as follows prior to commencing overlay operations:
 - a. Clean cracks 1/8 inch to 1/2 inch in width of dirt and other deleterious materials and repair with a hot, liquid asphalt crack sealer applied in accordance with the manufacturer's recommendations or with slurry seal.
 - b. Clean cracks or holes larger than 1/2 inch in width of dirt and other deleterious materials and repair with hot-mix asphalt concrete or slurry seal.

F. Seal Coat; Apply fog seal coat, and when indicated on the Drawings, a slurry seal, in accordance with CSS Section 37 to all new asphalt concrete paving.

- 1. Mask adjoining surfaces and areas, including curb faces.
 - a. Take all other necessary precautions as required to prevent over-spray and splatter of the seal coat material on the adjacent surfaces or areas.
 - b. In the event the precautions taken are not adequate, clean all traces of over-spray and splatter from surfaces.
- 2. After fog seal has been applied, allow ample time for drying before traffic is permitted on the pavement or paint striping is applied.

G. Header Board and Stakes:

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1. Install in configurations and elevations shown or noted.
 2. Reinforce joints.
 3. Insure headers show smooth, even line conforming to horizontal and vertical axis.
- H. Bituminous concrete shall show no evidence of cracking, uneven settlement or improper drainage. Correct work displaying such conditions under the Contractor's warranty of all work.
- I. Finished surface shall be true to established elevations within 1/4 inch in ten feet as measured from a 10-foot straight edge in any direction.

3.04 FIELD QUALITY CONTROL

- A. Comply with provisions of Section 01 45 29 - Testing Laboratory Services.
- B. General: Test in-place asphalt concrete courses for compliance with requirements for thickness and surface smoothness. Repair or remove and replace unacceptable paving as directed by the Geotechnical Engineer.
- C. Thickness: In-place compacted thickness will not be acceptable if following allowable variation from required thickness:
1. Base Course: 1/2 inch, plus or minus.
 2. Surface Course: 1/4 inch, plus or minus.
- D. Uniform Surface Plane: Test finished surface of each asphalt concrete course for flatness, using 10-foot straight edge applied parallel with, and at right angles to centerline of paved area. Surfaces will not be acceptable if exceeding the following tolerance for a uniform plane:
1. Base course surface: 1/4 inch.
 2. Wearing Course Surface: 3/16 inch.
 3. Check surface areas at intervals as directed by Engineer.
- E. The Owner may engage testing agency to be present at job site and batch plant for sampling, testing and inspections.

3.05 PROTECTION

- A. Permit no traffic until surface of paving has cooled sufficiently to prevent damage.
- B. Erect barricades if required to protect paving from traffic.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for asphalt paving shall be measured as a lump sum and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in project paving as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for asphalt paving shall be considered as included in the contract price paid per lump sum for asphalt paving and no additional compensation will be allowed therefor.

END OF SECTION 32 12 16

DIVISION 32 – EXTERIOR IMPROVEMENTS

SECTION 32 13 13 - CONCRETE PAVING

PART 1 – GENERAL

1.01 SUMMARY

- A. Provide requirements for materials, fabrications and installation of:
 - 1. Concrete mix design.
 - 2. Formwork for paving walks, curbs and gutters.
 - 3. Reinforcement.

1.02 SUBMITTALS

- A. Comply with requirements of Section 01 33 00 - Submittals.
- B. Submit product data for proprietary materials and items, admixtures, joint systems, curing compounds, dry-shake finish materials, and others if requested by Engineer.
- C. Submit design mixes for each class of concrete. Include revised mix proportions when characteristics of materials, project conditions, weather, test results, or other circumstances warrant adjustments.
- D. Submit laboratory test reports for evaluation of concrete materials and mix design tests.
- E. Provide material certificates in lieu of material laboratory test reports when permitted by Engineer.
 - 1. Provide material certificates signed by manufacturer and Contractor certifying that each material item complies with or exceeds requirements.
 - 2. Provide certification from admixture manufacturers that chloride content complies with requirements.

1.03 QUALITY ASSURANCE

- A. Comply with latest edition of the following standards and regulations:
 - 1. American Society for Testing and Materials (ASTM).
 - 2. California Department of Transportation (CALTRANS) Standard Plans (CSP) and Standard Specifications (CSS).
 - 3. Local requirements where they are applicable.
- B. Prevent damage to adjacent concrete curbs, walks, etc, during installation.
 - 1. Repair any damage to concrete edges or breaks in concrete at no cost to the Owner, by removal and replacement of complete sections.
 - 2. Patching will not be acceptable.

1.04 SITE CONDITIONS

- A. Submit to Engineer in writing any discrepancy between existing conditions and the Contract Documents.
- B. Commencement of any part of the work shall constitute acceptance of existing site conditions as satisfactory.
- C. Traffic Control: Maintain access for vehicular and pedestrian traffic as required by Owner.

PART 2 – PRODUCTS

2.01 CONCRETE

- A. Provide concrete materials conforming to the applicable requirements for minor concrete in CSS Section 73 Concrete Curbs and Sidewalks and Section 90 Portland Cement Concrete except as follows:
 - 1. The maximum size of aggregate used for extruded or slip-formed curb construction is optional, but in no case shall the maximum size be larger than 1 inch or smaller than 3/8 inch.
 - 2. The cement content of the minor concrete shall be not less than 470 pounds per cubic yard except that when extruded or slip-formed curbs are constructed using a 3/8-inch maximum size aggregate the cement content shall be not less than 564 pounds per cubic yard.

2.02 SIDEWALK FORMS

- A. General: Provide forms of wood or steel, straight and of sufficient strength to resist springing during depositing and consolidating concrete, and of a height equal to the full depth of the finished sidewalk.
- B. Wood forms:
 - 1. Provide surfaced planks, 2-inch nominal thickness, and straight and free from warp, twist, loose knots, splits or other defects.
 - 2. Wood forms shall have a nominal length of 10 feet, with a minimum of 3 stakes per form, at maximum spacing of 4 feet.
 - 3. Corners, deep sections, and radius bends shall have additional stakes and braces, as required.
 - 4. Radius bends may be formed with 3/4-inch boards, laminated to the required thickness.
- C. Steel forms:
 - 1. Provide channel-formed sections with a flat top surface and with welded braces at each end and at not less than 2 intermediate points.
 - 2. Form ends shall be interlocked and self-aligning.
 - 3. Forms shall include flexible forms for radius forming, corner forms, form spreaders, and fillers.
 - 4. Forms shall have a nominal length of 10 feet, with a minimum of 2 welded stake pockets per form.

5. Stake pins shall be solid steel rods with chamfered heads and pointed tips, designed for use with steel forms.

2.03 CURB AND GUTTER FORMS

- A. Conform to the requirements specified for sidewalk forms.
- B. Provide rigid forms for curb returns.
 1. Benders of thin plank forms may be used as follows:
 - a. For curb or curb returns with a radius of 10 feet or more.
 - b. Where grade changes occur in the return.
 - c. Where the central angle is such that a rigid form with a central angle of 90 degrees cannot be used.
 2. Back forms for curb returns may be made of 1-1/2 inch benders, for the full height of the curb, cleated together.

2.04 OTHER MATERIALS

- A. Concrete Curing Material:
 1. Burlap: Conforming to AASHTO M182 with a weight of 14 ounces or more per square yard when dry.
 2. Impervious Sheeting: Comply with ASTM C171.
 3. Liquid Membrane Curing Compound: Comply with ASTM C309. Provide curing compound free of paraffin or petroleum.
- B. Expansion Joint Fillers: Comply with ASTM D1751 or provide a resin-impregnated fiberboard conforming to the physical requirements of ASTM D1752.
- C. Reinforcement: Provide dowels, reinforcement bars and welded wire mesh conforming to the requirements in CSS Section 52, Reinforcement.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine surfaces and areas to receive sidewalks, curbs and gutters to establish acceptable conditions.
- B. Do not begin installation until defects have been corrected.

3.02 SUBGRADE PREPARATION

- A. Sidewalk Subgrade:
 1. Remove material deflecting more than ½ inch to a depth of 4 inches below subgrade elevation and replace with an approved granular material.
 2. Then compact new granular material to meet minimum compaction requirements per geotechnical recommendations and report.
 3. Test completed subgrade for grade and cross section with a template extending the full width of the sidewalk and supported between side forms.

- B. Curb and Gutter Subgrade:
 1. Provide subgrade of materials equal in bearing quality to the subgrade under the adjacent pavement.
 2. Place and compact additional subgrade material as needed.
 3. Test subgrade for grade and cross section by means of a template extending the full width of the curb and gutter.
- C. Maintenance of Subgrade:
 1. Maintain subgrade in a smooth, compacted condition, in conformity with the required section and established grade until the concrete is placed.
 2. Prepare and protect subgrade so as to produce a subgrade free from frost and excessive moisture when the concrete is deposited.

3.03 FORM SETTING OF SIDEWALKS

- A. Set forms for sidewalks with the upper edge true to line and grade and held rigidly in place by stakes.
 1. After forms are set, check grade and alignment with a 10-foot straightedge.
 2. Forms shall conform to line and grade with an allowable tolerance of 1/4 inch in any 10-foot long section.
 3. Forms shall have a transverse slope with the low side adjacent to the roadway unless otherwise indicated on Drawings.
- B. Coat forms with form oil prior to each time concrete is placed. Wood forms may be thoroughly wetted with water before concrete is placed, except that with probable freezing temperatures, oiling is mandatory.
- C. Do not remove side forms within 12 hours after finishing has been completed.

3.04 FORM SETTING OF CURBS

- A. Set forms for curbs to alignment and grade conforming to the dimensions of the curb.
 1. Hold forms rigidly in place by the use of stakes; use clamps, spreaders, and braces where required to ensure rigidity.
 2. Retain forms on the front face of the curb for at least 2 hours but not more than 6 hours after the concrete has been placed.
 3. Forms at the back of curb shall remain in place until the face and top of the curb have been finished.
- B. Do not remove gutter forms while the concrete is sufficiently plastic to slump in any direction.
- C. Forms shall be cleaned and coated with form oil each time before concrete is placed.
- D. Wood forms may be thoroughly wetted with water before concrete is placed, except that with probable freezing temperatures, oiling is mandatory.

3.05 SOIL TREATMENT OF SIDEWALK AREAS WITH HERBICIDES

- A. Just prior to placing pavement for driveways, and sideways, apply soil treatment with herbicide.
 1. The herbicide label shall:

- a. Bear evidence of registration under Federal Insecticide, Fungicide, and Rodenticide Act for weed control application.
- b. Provide recommended rates of application.
- 2. Take precautions to protect desirable vegetation from herbicide treatment.
- B. Coordinate with Engineer before application of herbicide is made and obtain concurrence with the proposed application.

3.06 PLACEMENT OF REINFORCING

- A. General: Comply with CSS Section 52 - Reinforcement.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.
- C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.
- D. Install welded wire fabric in lengths long as practicable. Lap adjoining pieces at least 1 full mesh and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

3.07 CONCRETE PLACEMENT AND FINISHING OF SIDEWALKS

- A. Placement: Place concrete in forms in 1 layer or thickness to provide a compacted and finished sidewalk of thickness indicated.
 - 1. After concrete has been placed in forms, strike off using side forms to bring the surface to proper section to be compacted.
 - 2. Tamp and consolidate concrete with a suitable wood or metal tamping bar.
 - 3. Finished surface of the walk shall not vary more than 1/4 inch from the testing edge of a 10-foot straightedge. Irregularities exceeding the above shall be satisfactorily corrected.
 - 4. The surface shall be divided into rectangular areas by means of contraction joints spaced at intervals equal to the width of the sidewalk or 5 feet, whichever is less.
- B. Concrete Finishing:
 - 1. When most of the water sheen has disappeared, and just before the concrete hardens, finish the surface to a smooth and uniformly fine granular or sandy texture free of waves, irregularities, or tool marks.
 - 2. Produce a scored surface by brooming with a fiber-bristle brush in a direction transverse to that of the traffic.
- C. Edge and Joint Finishing:
 - 1. Finish slab edges, including those at formed joints, with an edger having a radius of 1/8 inch.
 - 2. Edge transverse joints before brooming. Brooming shall eliminate the flat surface left by the surface face of the edger.
 - 3. Corner and edges which have crumbled and areas which lack sufficient mortar for proper finishing shall be cleaned and filled solidly with a properly proportioned mortar mixture and then finished.
- D. Contraction Joints:
 - 1. Form contraction joints in the fresh concrete by cutting a groove in the top portion of the

slab to a depth of at least one-fourth of the sidewalk slab thickness.

2. As an option, saw-cut a groove in the hardened concrete with a power-driven saw.
 - a. Sawed joints shall be constructed by sawing a groove in the concrete with a 1/8-inch blade to the depth indicated.
 - b. Provide an ample supply of saw blades on the job before concrete placement is started.
 - c. Have at least 2 standby sawing units in good working order available at the jobsite at all times during the sawing operation.

E. Expansion Joints:

1. Install transverse expansion joints at sidewalk returns and opposite expansion joints in adjoining curbs.
2. Where the sidewalk is not in contact with the curb, transverse expansion joints shall be installed as indicate don Drawings at intervals of not less than 20 or more than 25 feet.
3. Fill transverse expansion joints with 1/2-inch joint filler strips.
4. Place joint filler with top edge 1/4 inch below the finish surface.
 - a. Hold in place with steel pins or other devices to prevent warping of the filler during floating and finishing.
 - b. Immediately after finishing operations are completed, joint edges shall be rounded with an edging tool having a radius of 1/8 inch, and concrete over the joint filler shall be removed.
5. Form expansion joints about structures and features that project through or into the sidewalk pavement, using joint filler of the type, thickness, and width indicated on Drawings. Install filler to form a complete, uniform separation between the structure and sidewalk pavement.

F. Surface Uniformity: Provide a completed surface uniform in color and free of surface blemishes and tool marks.

3.08 PLACEMENT AND FINISHING OF CURBS AND GUTTERS

A. Place and thoroughly consolidate concrete by tamping and spading with approved mechanical vibrators.

B. Concrete Finishing:

1. Tool edges of the gutter and top of the curb with an edging tool to a radius of 1/2-inch.
2. Float and finish surfaces with a smooth wood float until true to grade, section and uniform in texture.
3. Brush floated surfaces with a fine-hair brush using longitudinal strokes.
4. Immediately after removing the front curb form, rub the face of the curb with a wood or concrete rubbing block and water until blemishes, form marks, and tool marks have been removed. While still wet, brush the surface in the same manner as the gutter and curb top. Finish the tip surface of gutter and entrance drive to grade with a wood float.

C. Except at grade changes or curves, finished surfaces shall not vary more than 1/4 inch from the testing edge of 10-foot straightedge. Irregularities exceeding the above shall be satisfactorily corrected.

D. Joints:

1. Construct expansion joints and contraction joints at right angles to the line of curb and gutter.

2. Construct contraction joints by means of 1/8-inch thick separators, of a section conforming to the cross section of the curb and gutter.
 - a. Construct contraction joints directly opposite contraction joints in abutting concrete pavement.
 - b. Where curb and gutter do not abut concrete pavements, place contraction joints so that monolithic sections between curb returns will not be less than 5 feet or greater than 15 feet in length.
 - c. Remove separators as soon as practicable after concrete has set; preserve the width and shape of the joint.
3. Expansion Joints:
 - a. Form expansion joints by means of preformed expansion-joint filler material cut and shaped to the cross section of curb and gutter.
 - b. Provide expansion joints in curb at the end of each return.
 - c. Provide expansion joints in curb and gutter directly opposite expansion joints of abutting concrete pavement.
 - d. Provide expansion joints of the same type and thickness as joints in the pavement.
 - e. Where curb and gutter do not abut concrete pavement, provide expansion joints at least 1/2-inch in width at intervals not exceeding 120 feet.
 - f. Provide expansion joints in non-reinforced concrete gutter at location indicated.
 - g. Drainage Inlets: Construct curbs and gutters at drainage inlets in coordination with site drainage work.

3.09 CURB-FORMING MACHINES

- A. Curb-forming machines for constructing curb and gutter will be approved based on trial use on the job.
- B. Discontinue use of the equipment at any time during construction the equipment produces unsatisfactory results; the work shall continue as specified above.
- C. Remove unsatisfactory work and reconstruct for the full length between regularly scheduled joints.
- D. Removed portions shall be disposed of as directed.

3.10 CURING AND PROTECTION

- A. Cure exposed concrete surfaces by one of the following methods.
- B. Mat Method:
 1. Cover the entire exposed surface with 2 or more layers of burlap; mats shall overlap each other at least 6 inches.
 2. Prior to placing mats on concrete surface, thoroughly wet with water.
 3. Continuously keep mats in a saturated condition and in intimate contact with concrete for not less than 7 days.
- C. Impervious Sheeting Method:
 1. Wet the entire exposed surface with a fine spray of water and then cover with impervious sheeting material.
 2. Lay sheets directly on the concrete surface and overlap 12 inches when a continuous

sheet is not used.

3. Provide impervious sheeting at least 18 inches wider than the concrete surface to be cured.
4. Securely weight sheeting down with heavy wood planks, or by placing a bank of moist earth along edges and laps in the sheets.
5. Sheets shall be satisfactorily repaired or replaced if torn or otherwise damaged during curing.
6. The curing sheet shall remain on the concrete surface to be cured for not less than 7 days.

D. Membrane-Curing Method:

1. Cover the entire exposed surface with a membrane-forming curing compound.
2. Apply curing compounds in 2 coats by hand-operated pressure sprayers as recommended by manufacturer.
3. Apply an additional coat to all surfaces showing discontinuity, pinholes or other defects.
4. Concrete surfaces that are subjected to heavy rainfall within 3 hours after curing compound has been applied shall be resprayed.
5. Protect concrete surfaces to which membrane-curing compounds have been applied.
6. Any area covered with curing compound and damaged by subsequent construction operations within the 7-day curing period shall be resprayed.

3.10 BACKFILL

- A. After curing, remove debris; backfill, grade and compact the area adjoining the concrete to conform to the surrounding area in accordance with lines and grades indicated.

3.11 CLEANING AND PROTECTION

- A. Comply with requirements of Section 01 7400 – Cleaning and Waste Management.
- B. Protect completed concrete from damage until accepted.
- C. Repair damaged concrete and clean concrete discolored during construction.
 1. Concrete that is damaged shall be removed and reconstructed for the entire length between regularly scheduled joints.
 2. Refinishing the damaged portion will not be acceptable.
 3. Remove damaged portions and dispose of as directed.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for concrete paving shall be measured as a lump sum and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in concrete paving as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for concrete paving shall be considered as included in the contract price paid per lump sum for concrete paving and no additional compensation will be allowed therefor.

END OF SECTION 32 13 13

DIVISION 32 – EXTERIOR IMPROVEMENTS
SECTION 32 17 23 - PAVEMENT MARKINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide requirements for materials, fabrications, and installation of traffic control and pavement markings.

1.2 SUBMITTALS

- A. Submit manufacturer's product data describing application of products and compliance with VOC requirements.
- B. Shop Drawings: Show complete layout and location of pavement markings prior to demolition or obliteration of the existing markings.
- C. Submit samples as follows:
 - 1. Traffic paint.
 - 2. Pavement markers and adhesives.
 - 3. Reflectorized markers and posts.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Comply with Division 1 requirements, specifications, and the Construction Manager.
- B. Deliver and store packaged products in original containers with seals unbroken and labels intact until time of installation.
- C. Provide proper facilities for handling and storage of products to prevent damage. Where necessary, stack products off ground on level platform, fully protected from weather.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Traffic Marking and Symbol Paint: Water-Born, Fast-Dry, Traffic Paint distributed by Fuller-O'Brien Corp. D.J. Simpson (#108-273, White); (#108-280, Blue); or approved equivalent.
- B. Handicapped Symbol Background Paint: Blue Color. Glidden Co. "Glid-Guard Lifemaster Finish No. 5200 /series, Color 1/M 79", or approved equivalent.
- C. Thermoplastic Stripes and Markings:
 - 4. Thermoplastic stripes and markings shall be hot applied conforming to CSS Section 84 and shall be Cataphote-Catatherm brand, Pavemark thermoplastic brand, or approved equal.
 - 5. Thermoplastic stripes and markings shall have a minimum skid friction value of BPN 35.
- D. Pavement Markers and Adhesives:
 - 6. Pavement markers shall be two-way retroflective "Blue" markers and shall conform to the applicable requirements of CSS Section 85.
 - 7. Adhesive for pavement markers shall be standard set epoxy adhesive conforming to the

requirements of CSS Section 95-2.05.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine receiving surfaces and verify that surfaces are clean and proper for installation.

Do not start work until unsatisfactory conditions have been corrected.

3.2 APPLICATION

- A. Preparation:

8. Clean and prepare surfaces to receive traffic paint in accordance with CSS Section 84-3.05 and these special provisions. Where required, remove existing striping and markings by wet blasting or equivalent method. Do not use dry sandblasting or other dust producing methods.

- B. Traffic Paint:

- 1. Traffic paint shall be machine applied in accordance with CSS Section 84-3.04.

- C. Striping Layout:

- 1. Traffic stripe shall be single and double, solid and broken, and of the color to match existing conditions.
- 2. Traffic striping shall be placed in patterns to match existing conditions, contractor shall document.

- D. Thermoplastic Stripes and Markings:

- 1. Thermoplastic stripes and markings shall be applied hot in conformance with manufacturer's recommended instructions and the applicable requirements of CSS Section 84-2.06.

- E. Pavement Markers:

- 1. Pavement markers shall be installed to delineate the location of fire hydrants along the loop road. No markers shall be installed until the surface has been approved by the Engineer and until at least 10 days after the slurry seal on asphalt concrete has been placed. Place markers in accordance with CSS Section 85-1.06.

- F. Apply marking paint in accordance with approved manufacturer's recommendations.

- G. Density of paint coverage shall hide color and texture of substate.

- H. Parking Stripes: Paint four inches wide unless otherwise noted.

- I. Symbol Marking: Paint to match existing conditions.

3.3 CLEANING AND PROTECTION

- A. Comply with requirements of Section 01710 - CLEANING.

- B. Upon completion of work, remove surplus materials and rubbish and clean off spilled or splattered paint resulting from this work.

- C. Permit no surface traffic until pavement and symbol marking has dried thoroughly.

END OF SECTION 32 17 23

DIVISION 33 - UTILITIES

SECTION 33 40 00 - STORM DRAINAGE UTILITIES

PART 1 – GENERAL

1.01 SUMMARY

- A. Provide requirements for storm drainage system in the locations and in conformance to the lines, grades and details indicated on the Drawings, and as specified.
- B. Storm drain system includes, but is not limited to, the following:
 - 1. Storm drainpipe.
 - 2. Manholes, frames and covers.
 - 3. Catch basins, frames and gratings.

1.02 SUBMITTALS

- A. Comply with requirements of Section 01 33 00 - Submittals.
- B. Submit for approval shop and material details of all special pipes for approval before the pipe is manufactured or used on the work.
- C. Certification: Within 15 days following completion of system installation, submit
- D. Certification signed by Contractor and subdrainage system installer that installed materials conform to specified requirements and system was successfully checked and tested prior to covering with filtering material.

1.03 QUALITY ASSURANCE

- A. Comply with the latest edition of the following Standards and Regulations:
 - 1. American Concrete Pipe Association (ACPA).
 - 2. American National Standards Institute (ANSI).
 - 3. Piping Work: NFPA 24 and AWWA C600
 - 4. State of California, Department of Transportation's "Standard Specifications," (CSS).
 - 5. Uni-Bell Plastic Pipe Association (UNI).
 - 6. Underwriters Laboratories, Inc. (UL).
 - 7. Federal Specifications (FS).
 - 8. American Association of State Highway and Transportation Officials (AASHTO) M-170.
 - 9. Meter Pit Construction: Conform to ACI 318; structures shall withstand H-20 loadings per AASHTO Standards.
- B. Installer: A firm licensed and specializing in underground pipe work with not less than 3 years' experience.
- C. Unless modified elsewhere on the plans and specifications, all pipes shall conform to the applicable provision of Section 65 of the State Specifications.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Label pipe and fittings delivered to the job site with inventory and identification (Brand Name, Pipe Type, Strength Class, Batch Lot, Lengths, etc.) meeting the requirements herein and for the work.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Furnish drainage pipe complete with bends, reducers, adapters, couplings, collars, system joint materials and filter fabric.
- B. SDR 35 PVC can be used for pipe sizes 24" or smaller and shall be used for pipes less than 12" unless otherwise noted on the plan.
- C. RCP pipe can be used for all pipe 12" and larger.

2.02 REINFORCED CONCRETE PIPE

- A. General: These specifications apply to reinforced concrete pipe intended to be used for the construction of storm drains, sewers and related structures.
- B. Materials: Use only potable water, Portland cement, mineral aggregates and steel conforming to ASTM C76, ASTM C655 and AASHTO M-170 in the manufacture of pipe, unless otherwise approved by the Engineer.
 - 1. Grade and proportion aggregates to produce a concrete mixture conforming to the test design requirements specified for pipe.
 - 2. Reinforcing shall conform to the requirements of AASHTO M-170.
 - 3. Provide Class III 1350-D reinforced concrete pipe unless indicated otherwise on the Drawings.
- C. Joints: Design joints to be self-centering.
 - 1. Provide rubber gasket type joints in concrete collar unless otherwise indicated on Drawings.
 - 2. Submit joint details for approval.
 - 3. Provide pipe with beveled ends for use around curves, with radii as shown on the Drawings. Either one or both ends shall be beveled a maximum of 5 degrees to provide well-fitting joints.
 - 4. If required by the Engineer, provide "match marked" pipe to meet specified laying tolerances. Furnish laying diagrams to the Contractor with copies to the Engineer.
 - 5. Jointing Materials: Gaskets and pipe ends for rubber gasket joint shall conform to ASTM C443. Provide gaskets suitable for use with sewage.
- D. Causes for Rejection: Pipe may be rejected for cause including, but not necessarily limited to, the following reasons:
 - 1. Non-conformance with the plans or specifications.
 - 2. Failure to meet any requirement specified in AASHTO M170.
 - 3. Failure during or after installation due to materials, operations, settlement, damage or misalignment, including failure to drain or protect.
 - 4. The imperfections and variations as cause for rejection in sewer and storm drain pipe shall apply to pipe indicated on the Drawings as well as for pipe specified by D-load or class.
 - 5. Pipe shall be considered ready for transport to the project site only when it conforms to the specified requirements for curing, testing and inspection.

2.03 D.I. PIPE

- A. D.I. Pipe and Fittings: Comply with requirements of ANSI Standards A21.50 and/or A21.51 as they apply to Ductile Iron Pipe.
1. All main and trunk sewer D.I. pipe and fittings shall be of sufficient thickness to withstand the designed working pressure, and depth of cover under the laying conditions.
 2. There are no special lining or coating requirement; however, bituminous material coated or concrete coated and/or lined pipe conforming to the requirements of ANSI Standard A21.4 may be used.
 3. All D.I. Pipe shall be as indicated by type and thickness class designations.
 4. Bell and spigot joint assemblies shall conform to the requirements of Federal Specifications W-P-412C, Section 3.1.2. as it applies to "Type II, Grades B or C" pipe.
 5. Standardized mechanical joints assemblies shall conform to the applicable requirements of ANSI Standards for the pipe specified and ANSI Standard A21.11.

2.04 PLASTIC PIPE

- A. General: Provide plastic pipe, fittings and joint material of Acrylonitrile Butadiene Styrene (A.B.S.) and Poly-Vinyl Chloride (P.V.C.).
1. Shop fabricates or mold fittings or parts for A.B.S. pipe not manufactured under the provisions for Composite Pipe from specified resins, conforming to the physical requirements in ASTM D2680.
 2. Test and prove that fittings or parts are equivalent quality to the composite pipe.
- B. Provide P.V.C. pipe and fittings conforming to the requirements of ASTM D3034-73 as they apply to type SDR 35 P.V.C. Sewer Pipe using an Elastomeric Gasket Joint in a bell and spigot assembly system.
1. Provide rubber-sealing gaskets meeting the requirements of ASTM D1869.
 2. No solvent cement joints will be permitted.
- C. Provide a rubber-sealing gasket, as supplied by the pipe manufacturer, for plastic pipe entering or leaving a concrete structure.
1. Firmly seat gasket perpendicular to the pipe axis around the pipe exterior and cast into the structure as a water stop.
 2. Water stop may also consist of a manhole coupling with rubber sealing rings cast into the structure.
- D. Tracer wire shall be installed per Section 33 11 16 of these specifications.

2.05 PRECAST STRUCTURES

- A. Provide precast reinforced concrete manholes as indicated on Drawings and conforming to ASTM C478, using Type II Cement conforming to ASTM C150.
1. Base and first riser shall be monolithic.
 2. Provide gaskets for joints between manhole sections conforming to ASTM C443.
 3. Provide resilient connectors for main joints between manhole and pipes entering manhole conforming to ASTM C923.
- B. Provide precast reinforced concrete catch basins as indicated on Drawings and conforming to ASTM C478, using Type II Cement conforming to ASTM C150.
1. Precast reinforced concrete catch basins may be furnished and installed in lieu of cast-in-place catch basin structures, when approved.
 2. Provide precast reinforced drop inlets with standard metal grate covers and side openings as indicated on Drawings.

3. Submit details for approval prior to ordering precast concrete catch basins, inlets, grates, covers, and frames.

2.06 CAST-IN-PLACE STRUCTURES, CONCRETE

- A. Provide concrete for cast-in-place structures conforming to Class “A” concrete as specified in Section 90 of the State Specifications, using Type II cement.
 1. The maximum size aggregate shall not exceed 1/5 of the narrowest dimension between sides of forms, 1/3 of the depth of slabs, or 3/4 of the minimum clear distance between reinforcing bars or between bars and forms whichever is least.

2.07 IRON AND STEEL

- A. General: Provide materials conforming to the requirements of the specifications of the ASTM as listed in the following tabulation with certain modifications and additions indicated later in this Section.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine surfaces and areas for suitable conditions where water service is being installed.
- B. Verify invert elevations against drainage slope and length of run for drainage pipe.
- C. Do not begin installation until unsatisfactory conditions have been corrected.

MATERIAL	ASTM DESIGNATION
Structural steel	A-36
Structural nickel steel	A-8
High-strength low-alloy structural steel for welding	A-242
High-strength structural steel	A-440-75
Bolts and nuts	A-307
Black steel pipe (std. Wt. seamless)	A-120
Carbon steel for forgings	A-235, Class C1
Alloy steel for forgings	A-237, Class A
Steel castings	A-27, Grade 65-35
Gray iron castings	A-48, Class 30
Malleable iron castings	A-47, Grade No. 32510
Wrought iron bars	A-207
Wrought iron plate	A-42
Bronze castings	B-22, Class C
Aluminum Alloy GS11A-T6	B-178
Stainless steel forgings	A-473
Ductile iron castings	A-536, Grade-65-45-12

1. Do not use structural steel manufactured by the acid-Bessemer process.
2. Materials used in the manufacture of corrugated metal pipes shall conform to ASSHTO M36.
3. Where a substitution of rolled stock for forgings has been approved, the rolled stock shall meet the physical and chemical requirements for forged steel.

- D. Provide miscellaneous iron and steel items conforming to dimensions and details indicated on Drawings and as specified.
1. Provide cast iron for drainage structure frames, grates, and covers, conforming to requirements for Class 30 gray iron castings, in ASTM A48.
 - a. Thoroughly clean and coat the castings with commercial quality asphaltum paint.
 - b. Match-mark frames and grates or covers in pairs before delivery to the work; grates or covers shall fit into their frames without rocking.
 2. Provide steel shapes, bars and plates for drainage structure frames and grates, conforming to the requirements of ASTM A36.
 - a. Welding shall conform to the requirements of AWS Code for Arc and Gas Welding in Building Construction.
 - b. Provide hot-dipped zinc coating after fabrication of steel frames and grates, in conformance with the requirements of ASTM A123.
 - c. Match-mark frames and grates in pairs before delivery to the work; grates shall fit into their frames without rocking.
 3. Provide manhole steps constructed of 3/4-inch diameter deformed reinforcing steel bars, drop-step, 14 inches wide minimum.
 - a. Provide zinc-coated steel steps conforming to ANSI A14.3.
 - b. Note: Plastic or rubber coating pressure-molded to the steel may be used as an option. Plastic coating shall conform to ASTM D4101, copolymer polypropylene. Rubber shall conform to ASTM C443.
 - c. Aluminum steps or rungs will not be permitted.
 - d. Steps are not required in manholes, curb inlets, or catch basins less than 4 feet deep.
- E. Filters: Provide steel, gray iron, malleable iron, and bronze castings with adequate continuous filters cast in place in all re-entrant angles.
1. The radius of curvature of the exposed surface of a fillet shall define the size of the fillet.
 2. The size of fillets shall not be less than 1/2 of the thickness of the thinnest adjoined member nor less than 1/2 inch.

3.02 INSTALLATION

- A. Placing Pipe:
1. Examine each pipe; do not use defective or damaged pipe.
 2. Pipelines shall be laid to the grades and alignment indicated on the Drawings.
 3. Provide proper facilities and equipment for lowering sections of pipe into trenches.

4. Do not lay pipe when trench conditions or weather are unsuitable for such work. Do not lay pipe in water.
5. Provide diversion of drainage or dewatering of trenches during construction as necessary.
6. Installation of concrete pipe shall proceed upgrade, with the tongue-and-groove pipe pointing in the direction of the flow.
7. Install circular concrete pipe with elliptical reinforcing so that the reference lines designating the tope of the pipes will be not more than 5 degrees from the vertical plane through the longitudinal axis of the pipe.
8. In backfilling operations exercise care to prevent damage to or misalignment of the pipe.
9. Adjust spigots in bells and tongues in grooves to produce a uniform space.
 - a. Blocking or wedging between bells and spigots or tongues and grooves will not be permitted.
 - b. Provide pipe or correct length; replace any pipe or fitting that does not allow sufficient space for proper installation of caulking or joint material.
10. At the end of each workday, close open ends of pipe temporarily with wood blocks or bulkheads.
11. Provide batterboards not more than 25 feet apart in trenches for checking and ensuring that pipe invert elevations are as indicated on Drawings. Laser beam method may be use din lieu of batterboards for the same purpose.

3.03 CONCRETE PIPE JOINTS

- A. Provide rubber gasket jointing and jointing procedures of ACPA Concrete Pipe Installation Manual or of ACPA Concrete Pipe Handbook, Chapter 9.
 1. Make joints with the gaskets as specified for joints.
 2. Clean and dry surfaces receiving lubricants, cements, or adhesives.
 3. Affix gaskets to pipe not more than 24 hours prior to the installation of the pipe.
 4. Protect gaskets from sun, blowing dust, and other deleterious agents at all times.
 5. Before installation of the pipe, inspect gaskets and remove and replace loose or improperly affixed gaskets.
 6. Align each pipe section with the previously installed pipe section and pull the joint together.
 7. If, while pulling the joint, the gasket becomes loose and can be seen through the exterior joint recess when the pipe is pulled up to within 1 inch of closure, remove the pipe and remake the joint.

3.04 PLASTIC PIPE

- A. Cut odd lengths of plastic pipe using a proper cutting tool and guide that ensures true line cut on planes perpendicular to the pipe axis. No bevel cuts for pipeline alignment adjustments will be permitted.
- B. Bed and backfill plastic pipe as specified with extra care taken in compaction of bedding and backfills as indicated on Drawings.
- C. Do not allow the inside diameter of an installed section of plastic pipe to deflect more than 5 percent.
 1. After the placement of trench backfill, mandrel test check plastic pipe by means of a pipe deflection gauge in the presence of the Engineer.
 2. Any section or sections of plastic pipe that does not permit deflection gauge passage will not be accepted.
 - a. Repair or replace any unacceptable section or sections.
 - b. The pipe inside diameter and a length of the circular portion shall be not less than the nominal diameter of the pipe.

- D. Installation of PVC Plastic Piping: Install pipe and fittings in accordance with the requirements of UNI-B-5 for laying and joining pipe and fittings.
 1. Make joints with specified gaskets; assemble joints in accordance with the requirements of UNI-B-5.
 2. Make joints to other pipe materials in accordance with the recommendations of the plastic pipe manufacturer.
- E. Installation of ABS Composite Plastic Piping: Install pipe and fittings in accordance with the recommendations of the plastic pipe manufacturer.
 1. Make joints with specified primer and solvent cement; assemble in accordance with the recommendations of the pipe manufacturer.
 2. Handle solvent cement in accordance with ASTM F402.

3.05 DRAINAGE STRUCTURES

- A. Construct base slab of cast-in-place concrete.
 1. Make inverts in cast-in-place concrete and precast concrete bases with a smooth-surfaced semi-circular bottom conforming to the inside contour of the adjacent sewer sections.
 2. For changes in direction of the sewer and entering branches into the manhole, make a circular curve in the manhole invert of as large a radius as manhole size will permit.
 3. For cast-in-place concrete construction, either pour bottom slabs and walls integrally or key and bond walls to bottom slab.
 4. For precast concrete construction, make joints between sections with the gaskets specified for this purpose; install in the manner specified for installing joints in concrete piping.
- B. Provide a smooth finish to inside joints of precast concrete manholes, curb inlets, and catch basins.
- C. Make joints between concrete manholes and pipes entering manholes with the resilient connectors specified for this purpose; install in accordance with the recommendations of the connector manufacturer.
- D. Where a new manhole is constructed on an existing line, remove existing pipe as required to construct the manhole.
 1. Cut existing pipe so that pipe ends are approximately flush with the interior face of manhole wall, but not protruding beyond into the manhole.
 2. Use resilient connectors as specified for pipe connectors to concrete manholes.
- E. Manhole Construction: Excavate, install and backfill manholes as specified.
 1. All embedment materials under, around, and at least 3 inches over all pipelines located within 5 feet of structure bases shall be compacted without jetting prior to barrel section placements.
 2. Construct manholes to subgrade prior to jetting adjoining sewer pipeline trench and/or structure backfill where such method of compaction is permitted and used.
- F. Provide structures constructed with precast sections of single manufacturer and/or with such compatible products as may be recommended by the precast manufacturer.
- G. Installation of Gaskets:
 1. Apply 1 coat of primer to clean, dry joint surface (both tongue and groove) and allow drying.
 2. Remove the paper wrapper from 1 side only of the 2-piece wrapper on the gasket. The outside paper will protect the gasket and assure against stretching.

3. Before setting the manhole section in the trench, attach the plastic gasket strips end-to-end to the tongue or groove of each joint, forming a continuous gasket around the entire circumference of the manhole joint.
4. Handling of barrel sections after the plastic gasket has been affixed shall be carefully controlled to avoid bumping the gasket and thus displacing it or covering it with dirt or other foreign material. Remove any gaskets so disturbed; replace if damaged and reposition if displaced.
5. Properly align the manhole section with the previously set section before it is lowered into position.
6. During cold or wet weather:
 - a. Pass direct heat over the concrete joint surface lightly until ice, frost, and moisture are removed and surface to be primed is dry and warm immediately before application of primer.
 - b. Pass direct heat over plastic gasket strips immediately prior to attaching them to joint surfaces and immediately prior to insertion of tongue into groove.

H. Manhole Surface Block:

1. Pour blocks for precast manholes against native, undisturbed earth or compacted structural backfill material, which has been excavated to the dimensions shown on Drawings.
2. If over-excavation occurs beyond the horizontal or vertical dimensions shown on Drawings, construct forms to the specified dimensions prior to placement of concrete for the surface block.

3.06 METAL WORK

- A. Workmanship: Provide metal work equal to the best practice in modern structural shops and foundries.
1. Form iron and steel to shape and size with sharp lines and angles; do shearing and punching so that clean true lines and surfaces are produced.
 2. Make castings sound and free from warp, cold shuts, and blowholes that may impair their strength or appearance.
 - a. Give exposed surfaces a smooth finish with sharp well-defined lines and arises.
 - b. Provide rabbets, lugs, and brackets wherever necessary for fitting and support.
 3. Immediately after cleaning:
 - a. Coat surfaces with a pretreatment coating, MS DOD-P-15328, applied to a dry film thickness of 0.3 to 0.5 mil;
 - b. Or apply a crystalline phosphate coating, FS TT-C-490, Method I, Type II.
 4. As soon as practicable after the pretreatment coating has dried, Prime treated surfaces with a coat of zinc chromate primer, FS TT-P-645, applied to a minimum dry film thickness of 1.0 mil.
 5. If primed surfaces are damaged before removal from the shop, retouch with primer.
- B. Field Painting:
1. After installation, clean cast-iron frames, covers, gratings, and steps not buried in masonry or concrete to bare metal.

2. Remove mortar, rust, grease, dirt, and other deleterious materials and apply a coat of bituminous paint.

3.07 MISCELLANEOUS CONSTRUCTION AND INSTALLATION

- A. Disposal of Surplus Materials: Unless otherwise specified, surplus excavated and unsuitable materials shall become the property of the Contractor. Dispose of surplus materials in a legal manner off the project site, or at designated disposal sites.
- B. Restoration of Surfaces: Replace or restore to their original condition pavement, curbs, gutters, walks, driveways, planted areas and similar surfaces which were removed, cut, or damaged during the construction of storm drainage facilities. Adhere to local ordinances governing such replacement.
- C. Installation: Install items as indicated on Drawings and as specified in the applicable provisions of Section 71 of the State Specifications.

3.08 RECONSTRUCTION OF EXISTING STRUCTURES

- A. General: Before beginning any structure reconstruction work, submit in writing, a summary of the procedures, which shall conform to the criteria listed below. Approval of this work summarization shall be authorization to proceed.
 1. When removing existing structures located on live systems:
 - a. Ensure that no foreign material enters into the existing sewer lines.
 - b. Prevent pieces of concrete mortar, brick, wood, etc. from entering into the live lines.
 2. All workmanship and materials for structure adjustments shall conform to the requirements of these Specifications.
 3. In the case of existing brick or cast-in-place concrete structures, accomplish repair or adjustments with materials in kind or with precast elements as detailed on the Drawings and/or approved.
- B. Manholes:
 1. Before any work is started on adjusting or repairing manhole, cover the channels in the base with plywood or a similar material and then the entire base covered with a heavy piece of canvas temporary debris cover.
 - a. Keep temporary debris cover in place during all work, and upon completion, picked up containing all debris.
 - b. Remove the canvas and plywood from the manhole allowing no debris to fall or to remain in the manhole.
 2. Existing structure precast elements, adjustment rings, frames, and covers removed in adjustments and/or repairs may be reinstalled only when such undamaged items are approved for reuse.
 3. Accomplish manhole adjustments by one of the methods specified herein or as detailed on the Drawings.
 4. Make upward adjustments of standard manholes to finish grade surface using reinforced concrete grade rings of formed concrete (Case II) and/or a cast iron extension ring (Case I) when the completed manhole throat does not exceed a total of 18 inches.
 - a. Single concrete grade rings may be used for such adjustments not exceeding 4 inches.
 - b. In no case shall multiple cast iron extension rings be used in adjustments.

5. In upward adjustments of standard manholes which would create a completed manhole throat section exceeding 18 inches, remove the upper manhole section, including reinforced concrete block and cone section, and make the adjustment by use of additional manhole barrel sections, cone, grade rings, etc. (Case III).
 6. To make downward adjustments of standard manholes (Case III) remove existing grade or extension rings.
 - a. When specifically approved, carefully chip the top of the existing precast cone section away such that the inside diameter of said cone at the top does not exceed 27 inches.
 - b. When chipping the cone is so approved, the chipped portion of the cone shall be mortared to a smooth, level surface with Class I mortar and allowed to dry prior to replacement of the frame and cover.
 - c. No downward adjustment by chipping will be permitted if the frame and cover casting is the standard weight variety.
 - d. When such removal sand/or chipping will not accomplish the necessary adjustment, remove the upper manhole sections, including barrel sections as required, and reconstruct the manhole as specified above.
 - e. In all downward adjustments the dimensional requirements of the reinforced concrete block in the upper section of the manhole shall be maintained or restored.
- C. Rodding Inlets: Accomplish rodding inlet adjustment by one of the methods specified herein or as detailed on the Drawings.
- D. Make upward adjustments of rodding inlets to finish grade surface using formed concrete or a cast iron extension ring (Case I) where such does not already exist and where such extension does not exceed 8 inches. Extend the existing reinforced concrete block whenever the bottom of the cast iron frame is to be positioned above the top of existing block.
1. To make upward adjustments of rodding inlets exceeding 8 inches, remove the structure's frame, cover, and concrete block and reconstruct structure, (Case III). Pipe used for such adjustments shall be consistent in material, line and grade with that already in place and be jointed where required.
 2. To make downward adjustments of rodding inlets, remove and reconstruct of the entire upper section, including the block (Case III).

3.09 FIELD QUALITY CONTROL

- A. Field Tests and Inspections: The Engineer shall witness field tests specified in this section.
1. Provide labor, equipment, and incidentals required to perform field-testing as specified.
 2. Provide evidence, when required, that each item of work have been constructed in accordance with Drawings and specifications.
- B. Pipeline Testing:
1. Check each straight run of pipeline for gross deficiencies by holding a light in a manhole; it shall show a practically full circle of light through the pipeline when viewed from the adjoining end of line.
 2. Departure from established grade and alignment shall not exceed 1/8 inch per linear foot in any 10 linear feet of installed pipe.
 3. Inspection may be made after completion using portable lights, reflectors or other means as well as during installation.

- C. Deflection Testing:
1. Upon completion of work, perform a deflection test on entire length of installed plastic pipeline. Completed work includes superimposed loads adjacent to and over the pipeline, such as backfill, earthwork, paving, concrete curbs and gutters, and landscaping.
 2. Under external loads, deflection of pipe in the installed pipeline shall not exceed 4.5 percent of the average inside diameter of pipe.
 3. Determine whether the allowable deflection has been exceeded by use of a pull-through device or a deflection-measuring device.
 4. Pull-Through Device:
 - a. Provide a spherical, spheroidal, or elliptical ball, a cylinder, or circular sections fused to a common shaft.
 - 1) Circular sections shall be so spaced on the shaft that distance from external faces of front and back sections will equal or exceed diameter of the circular section.
 - 2) Pull-through device may also be of a design approved by the Uni-Bell Plastic Pipe Association, provided that the device meets the applicable requirements specified in this paragraph, including those for diameter of the device.
 - b. Ball, cylinder, or circular sections shall conform to the following:
 - 1) A diameter, or minor diameter as applicable, of 95 percent of the average inside diameter of the pipe, tolerance of plus 0.5 percent, will be permitted.
 - 2) A homogeneous material throughout, with a density greater than 1.0 as related to water at 39.2 degrees F, and a surface Brinell hardness of not less than 150.
 - 3) Center bored and through bolted with a 1/4-inch minimum diameter steel shaft having a yield strength of not less than 70,000 pounds per square inch, with eyes or loops at each end for attaching pulling cables.
 - 4) Each eye or loop shall be suitably backed with a flange or heavy washer such that a pull exerted on opposite end of shaft will produce compression throughout remote end.
 - c. Pull-Through Device:
 - 1) Pass the pull-through device through each run of pipe, either by pulling it through or flushing it through with water.
 - 2) If the device fails to pass freely through a pipe run, replace pipe which has the excessive deflection and completely retest in same manner and under same conditions as specified.
 5. Deflection measuring Device:
 - a. Sensitive to 1.0 percent of the diameter of the pipe being tested and accurate to 1.0 percent of the indicated dimension.
 - b. Obtain approval of deflection measuring device prior to use.
 6. Deflection Measuring Device Procedure:
 - a. Measure deflections through each run of installed pipe.
 - b. If deflection readings in excess of 4.5 percent of average inside diameter of pipe are obtained, retest pipe by a run from the opposite direction.
 - c. If retest continues to show a deflection in excess of 4.5 percent of average inside diameter of pipe, remove pipe that has excessive deflections, replace with new pipe, and completely retest in same manner and under same conditions.
- D. Warranty Period Test: Pipe found to have a deflection of greater than 5 percent of average inside diameter when deflection test is performed just prior to end of 1-year warranty period shall be replaced with new pipe and tested as specified for leakage and deflection.
- E. Provide material and work of field tests in the price bid.

3.10 CLEANING

- A. Comply with requirements of Section 01 74 00 – Cleaning and Waste Management.
- B. Thoroughly clean storm drain lines, manholes, catch basins, field inlets, culverts, and similar structures, of dirt, debris, and obstructions of any kind.

PART 4 – MEASUREMENT & PAYMENT

- A. The contract unit price paid for storm drainage utilities shall be measured as lineal feet and include full compensation to furnishing all labor, materials, tools, equipment, taxes, insurance, and incidentals and for doing all the work involved in concrete paving as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the engineer.
- B. Full compensation for storm drainage utilities shall be considered as included in the contract price paid per lump sum for storm drainage utilities and no additional compensation will be allowed therefor.

END OF SECTION 33 40 00

CUPERTINO PUBLIC LIBRARY EXPANSION

100% BRIDGING DOCUMENT SET

JUNE 1, 2020



SOUTH EAST PERSPECTIVE VIEW

CUPERTINO PUBLIC LIBRARY EXPANSION

10800 TORRE AVENUE
CUPERTINO, CA 95014



PIER 1, BAY 2
THE EMBARCADERO
SAN FRANCISCO, CA 94111

INFO@EHDD.COM
+1 415-285-9193

Consultant

Stamp

Printing Date
COST MODEL DRAWINGS 05.04.2020
BRIDGING DOCUMENTS 100% SD 06.01.2020

PROJECT TEAM

ARCHITECT
EHDD ARCHITECTURE
PIER 1, BAY 2
THE EMBARCADERO
SAN FRANCISCO, CA 94111
T: (415) 285-9193

CIVIL ENGINEER
SANDIS
1700 S WINCHESTER BLVD. #200
CAMPBELL, CA 95008
T: (408) 636-0900

STRUCTURAL ENGINEER
DAEDALUS
12930 SARATOGA AVE
SARATOGA, CA 95070
T: (408) 517-0373

MECHANICAL/ ELECTRICAL/ PLUMBING ENGINEER
GAYNER ENGINEERS
311 POST STREET
SAN FRANCISCO, CA 94109
T: (415) 474-9500

PROJECT DATA

PROJECT LOCATION:
CUPERTINO PUBLIC LIBRARY PROGRAM EXPANSION BUILDING

PROJECT SCOPE:
APPROXIMATELY 5,000 SF TWO STORY ADDITION OF PROGRAM SPACE, RESTROOMS, STORAGE, PANTRY

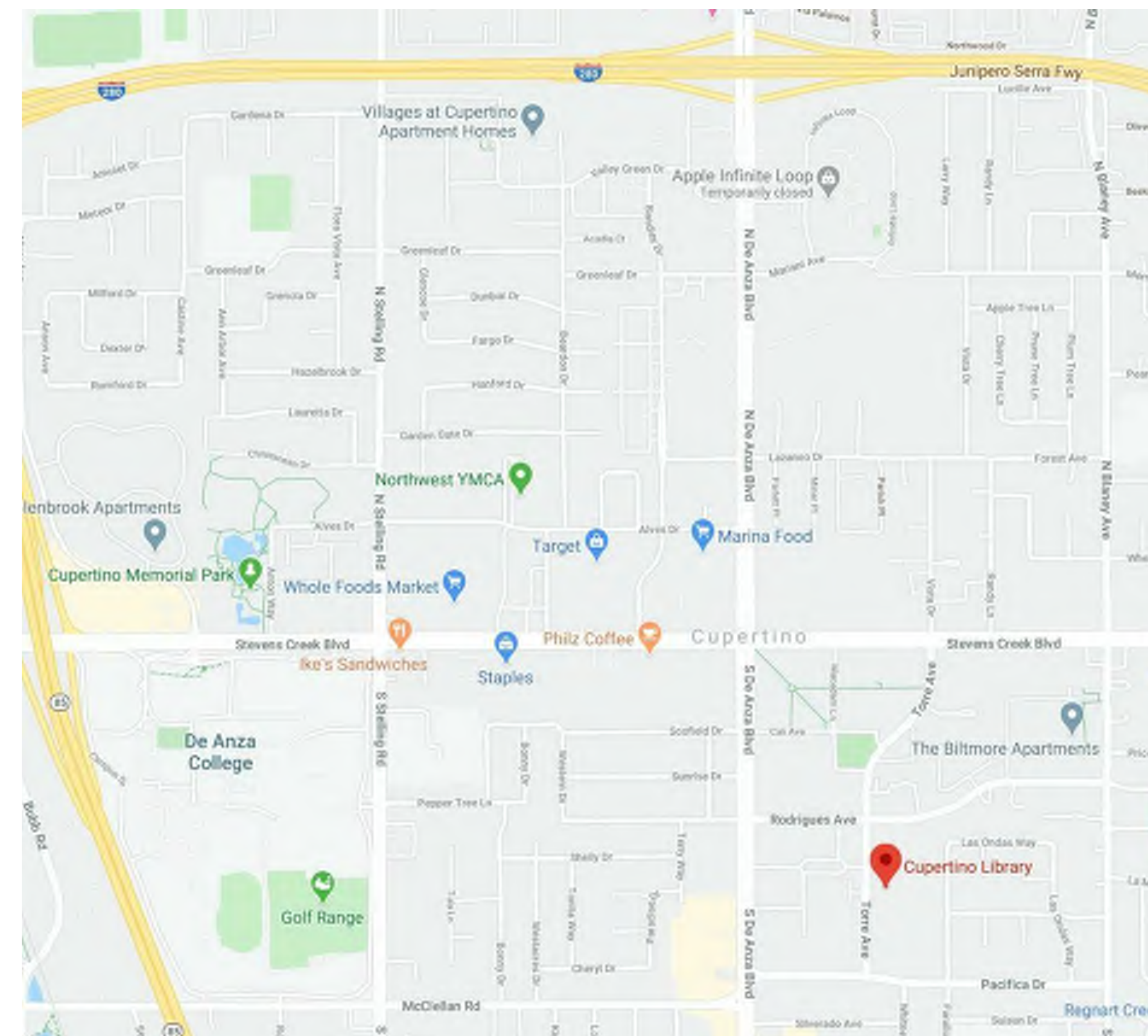
APPLICABLE CODES (BASIS OF DESIGN):
CODE REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

APPLICABLE STATE CODES:
2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CBSC
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, CBSC
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, CBSC
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, CBSC
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, CBSC
2019 CALIFORNIA ENERGY CODE (CPC), PART 6, CBSC
2019 CALIFORNIA FIRE CODE, PART 9, CBSC
2019 CALIFORNIA EXISTING BUILDING CODE PART 10
2019 CALIFORNIA GREEN BUILDING CODE PART 11
2019 CALIFORNIA REFERENCED STANDARDS, PART 12, CBSC
2019 CALIFORNIA EXISTING BUILDING CODE PART 10
TITLE 8 C.C.R., CH. 4, SUB-CH. 6-ELEVATOR SAFETY ORDERS
TITLE 19 C.C.R., PUBLIC SAFETY, SFM REGULATIONS

APPLICABLE FEDERAL CODES & STANDARDS:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, TITLE II

OCCUPANCY CLASSIFICATION & TYPE OF CONSTRUCTION:
OCCUPANCY TYPE A-3, CONSTRUCTION TYPE II-A; SPRINKLERED

VICINITY MAP



SHEET INDEX

- GENERAL**
- G0.00 COVER SHEET AND INDEX
 - G0.01 ARCHITECTURAL ABBREVIATIONS AND SYMBOLS
 - G0.02 CODE ANALYSIS
 - G0.03 ACCESSIBILITY SITE PLAN
 - G0.04 LIFE SAFETY PLAN AND CODE REVIEW
 - G3.01 ACCESSIBLE MOUNTING HEIGHTS
 - G4.01 PERSPECTIVE VIEWS
- CIVIL**
- C1.0 COVER SHEET
 - C1.1 NOTES
 - C2.0 TOPOGRAPHIC SURVEY
 - C3.0 DEMOLITION PLAN
 - C4.0 SITE ACCESS AND PARKING PLANS
 - C5.0 GRADING AND DRAINAGE PLAN
 - C6.0 UTILITY PLAN
 - C7.0 CONSTRUCTION DETAILS
 - C8.0 EROSION CONTROL PLAN
 - C8.1 EROSION CONTROL DETAILS
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 - A0.12 SITE PLAN - CONSTRUCTION LOGISTICS
 - A1.01 LEVEL 1 - DEMOLITION PLAN
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 - A2.12 ROOF PLAN
 - A2.21 LEVEL 1 & 2 - FINISH PLANS
 - A2.41 LEVEL 1 - FURNITURE PLANS
 - A2.42 LEVEL 2 - FURNITURE PLANS
 - A3.01 BUILDING ELEVATIONS
 - A3.11 BUILDING SECTIONS
 - A3.12 BUILDING WALL SECTIONS
 - A4.01 ENLARGED TOILET PLANS & ELEVATIONS
 - A5.01 INTERIOR ELEVATIONS
 - A6.01 LEVEL 1 & 2 - REFLECTED CEILING PLANS
 - A7.01 STAIR PLANS AND SECTIONS
 - A9.01 TYPICAL ACOUSTIC DETAILS
- STRUCTURAL**
- S0.11 NOTES
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 - S2.11 LEVEL 1 FRAMING PLAN
 - S2.12 LEVEL 2 FRAMING PLAN
 - S2.21 BRACE FRAME ELEVATIONS
 - S3.11 TYPICAL CONCRETE DETAILS
 - S3.12 TYPICAL CONCRETE DETAILS
 - S5.11 TYPICAL STEEL DETAILS
 - S5.12 TYPICAL STEEL DETAILS
 - S5.13 TYPICAL STEEL DETAILS
 - S5.21 COLD FORMED STEEL DETAILS
 - S5.22 COLD FORMED STEEL DETAILS

Revisions and Description Date

Scale
1/2" = 1'-0"

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Author
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20013

Sheet Title
COVER SHEET AND INDEX

Sheet Number

G0.00

CODE ANALYSIS

Table with columns: SECTION NO. (CBC, u.o.n.), BUILDING CODE ANALYSIS, 1 APPLICABLE BUILDING CODE, 2 BUILDING DESCRIPTION, 3 OCCUPANCY, 4 GENERAL BUILDING HEIGHTS AND AREA/ MIXED USE AND OCCUPANCY, 4C: ALLOWABLE AREA AND HEIGHT, 4D: FIRE ACCESS, 4E: OCCUPANCY SEPARATIONS, 5 FIRE RESISTIVE REQUIREMENTS FOR BUILDING ELEMENTS, 5A: CONSTRUCTION TYPE DESCRIPTION, 5B: FIRE RESISTIVE REQUIREMENTS, CONSTRUCTION TYPE, 7 FIRE RESISTANCE RATED CONSTRUCTION, 7A: BUILDING SEPARATIONS (Actual Fire Separation Distance), 7B: EXTERIOR WALL OPENINGS

Table with columns: SECTION NO. (CBC, u.o.n.), 7C: INTERIOR WALLS, 8 INTERIOR FINISH, 9 FIRE PROTECTION SYSTEMS: AUTOMATIC SPRINKLER SYSTEMS, AND FIRE ALARM SYSTEMS

Table with columns: SECTION NO. (CBC, u.o.n.), 10 MEANS OF EGRESS, 11 ACCESSIBLE EGRESS

Table with columns: SECTION NO. (CBC, u.o.n.), 12 ACCESSIBLE MEANS OF EGRESS, 13 ROOF ASSEMBLY AND ROOFTOP STRUCTURES, 17 EMERGENCY POWER

PLUMBING FIXTURE CALCULATIONS

CPC 2019 PLUMBING FIXTURE CALCULATIONS-CUPERTINO LIBRARY EXPANSION

Table with columns: FLOOR LEVEL, TYPE OF OCCUPANCY, TOTAL SQ. FT., OCCUPANT LOAD, NUMBER OF FIXED SEATS, OCCUPANT LOAD FACTOR, TOTAL OCCUPANT LOAD, GENDER LOAD, NUMBER OF MEN, NUMBER OF WOMEN, WOMEN'S WATER CLOSETS, MEN'S WATER CLOSETS, URINALS, LAVS, DRINKING FOUNTAINS, SERVICE SINK OR LAUNDRY TRAY, BATHUBS OR SHOWERS, COMMENTS

CPC 2019 PLUMBING FIXTURE CALCULATIONS-CUPERTINO LIBRARY EXPANSION

Table with columns: FLOOR LEVEL, TYPE OF OCCUPANCY, TOTAL SQ. FT., OCCUPANT LOAD, NUMBER OF FIXED SEATS, OCCUPANT LOAD FACTOR, TOTAL OCCUPANT LOAD, GENDER LOAD, NUMBER OF MEN, NUMBER OF WOMEN, WOMEN'S WATER CLOSETS, MEN'S WATER CLOSETS, URINALS, LAVS, DRINKING FOUNTAINS, SERVICE SINK OR LAUNDRY TRAY, BATHUBS OR SHOWERS, COMMENTS

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INFO@EHDD.COM +1 415-285-9193

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Revisions and Description Date

Scale

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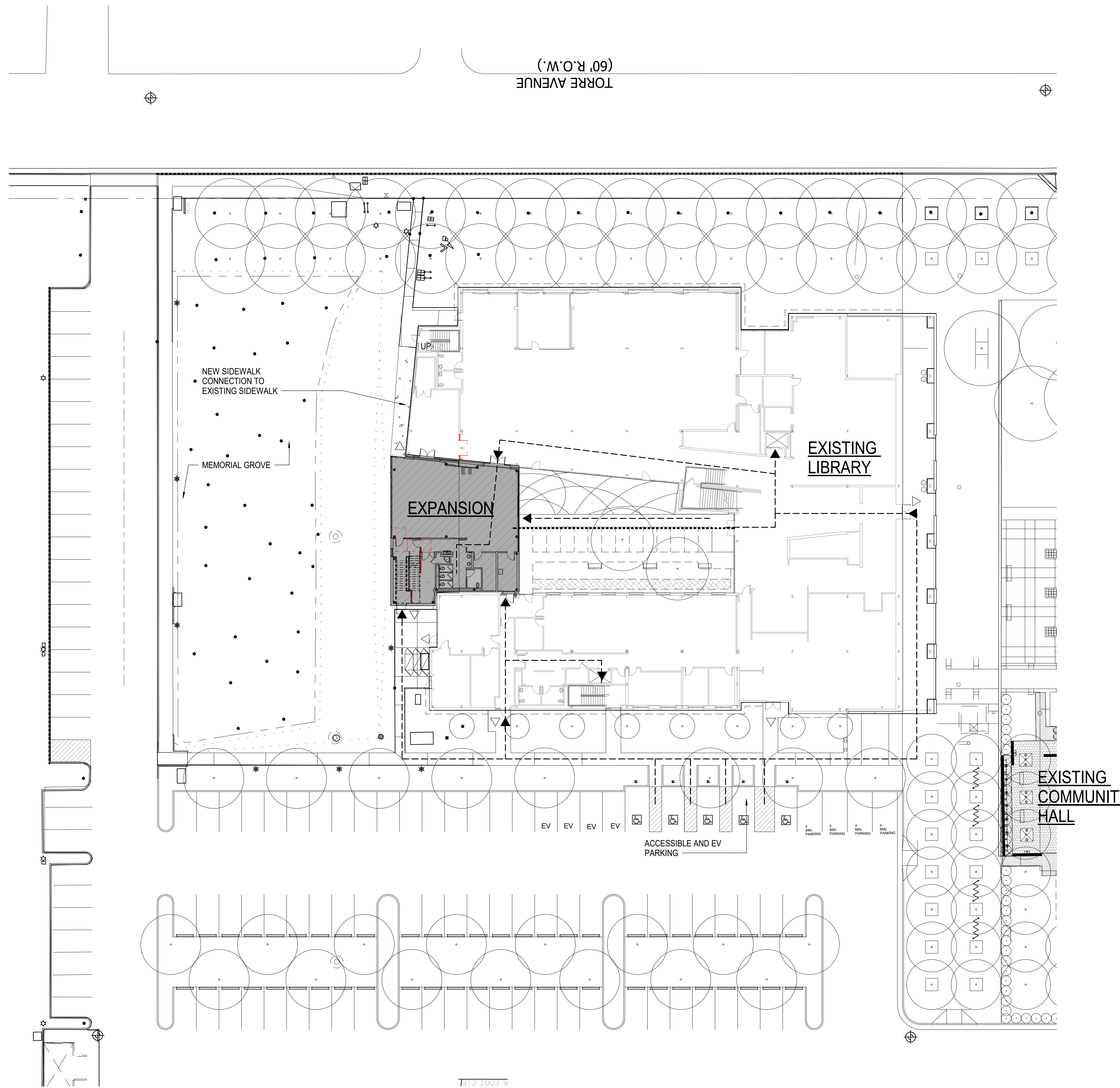
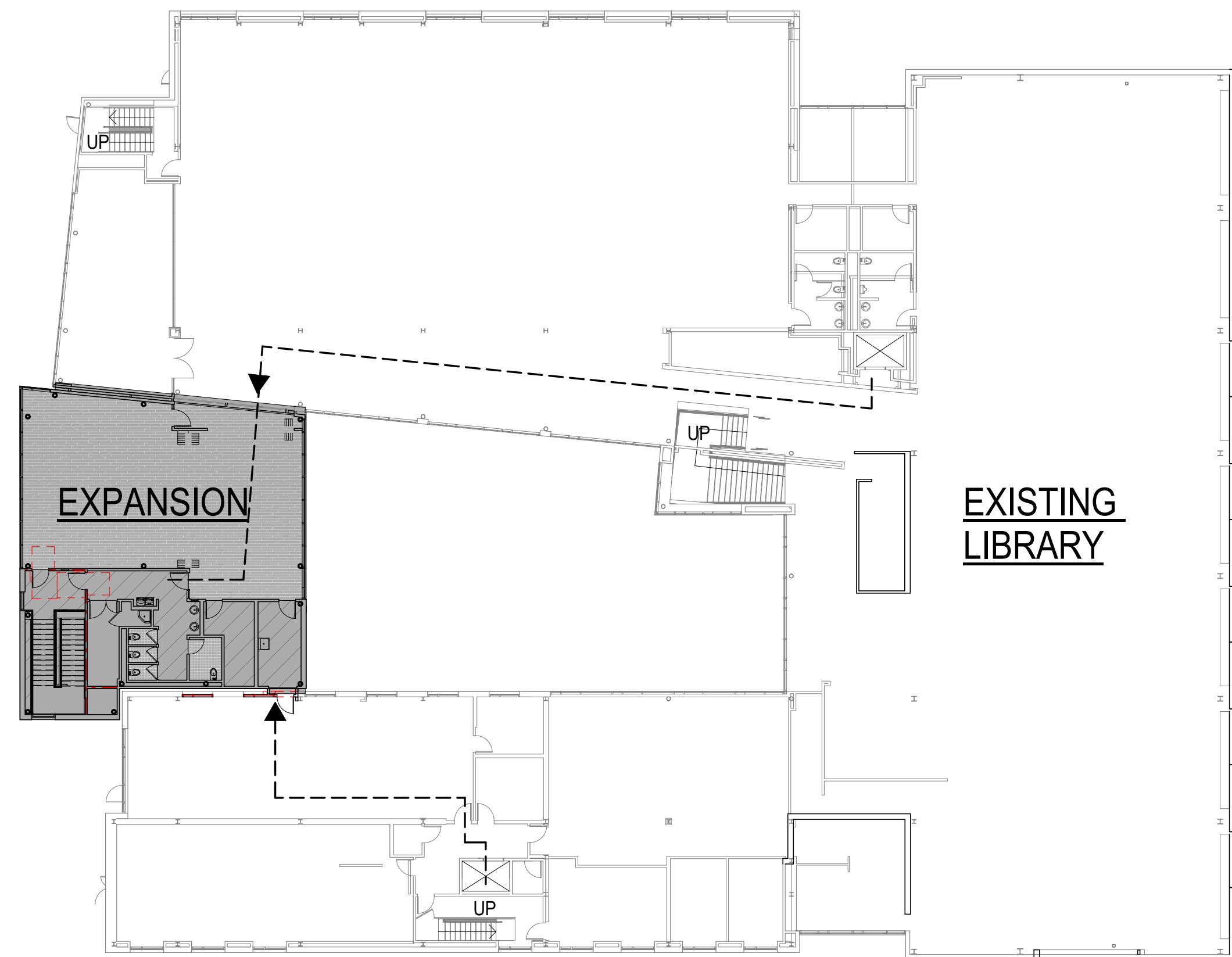
Sheet Title

CODE ANALYSIS

Sheet Number

2 ACCESSIBILITY Level 2
G0.03 SCALE: 1" = 20'-0"

3 ACCESSIBILITY Level 1
G0.03 SCALE: 1" = 20'-0"



LEGEND

- ▲ ACCESSIBLE BUILDING ENTRANCES
- △ ACCESSIBLE BUILDING EXITS
- ➔ ACCESSIBLE PATH OF TRAVEL
- ♿ ACCESSIBLE FEATURE

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+1 415-285-9193

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Scale
As indicated

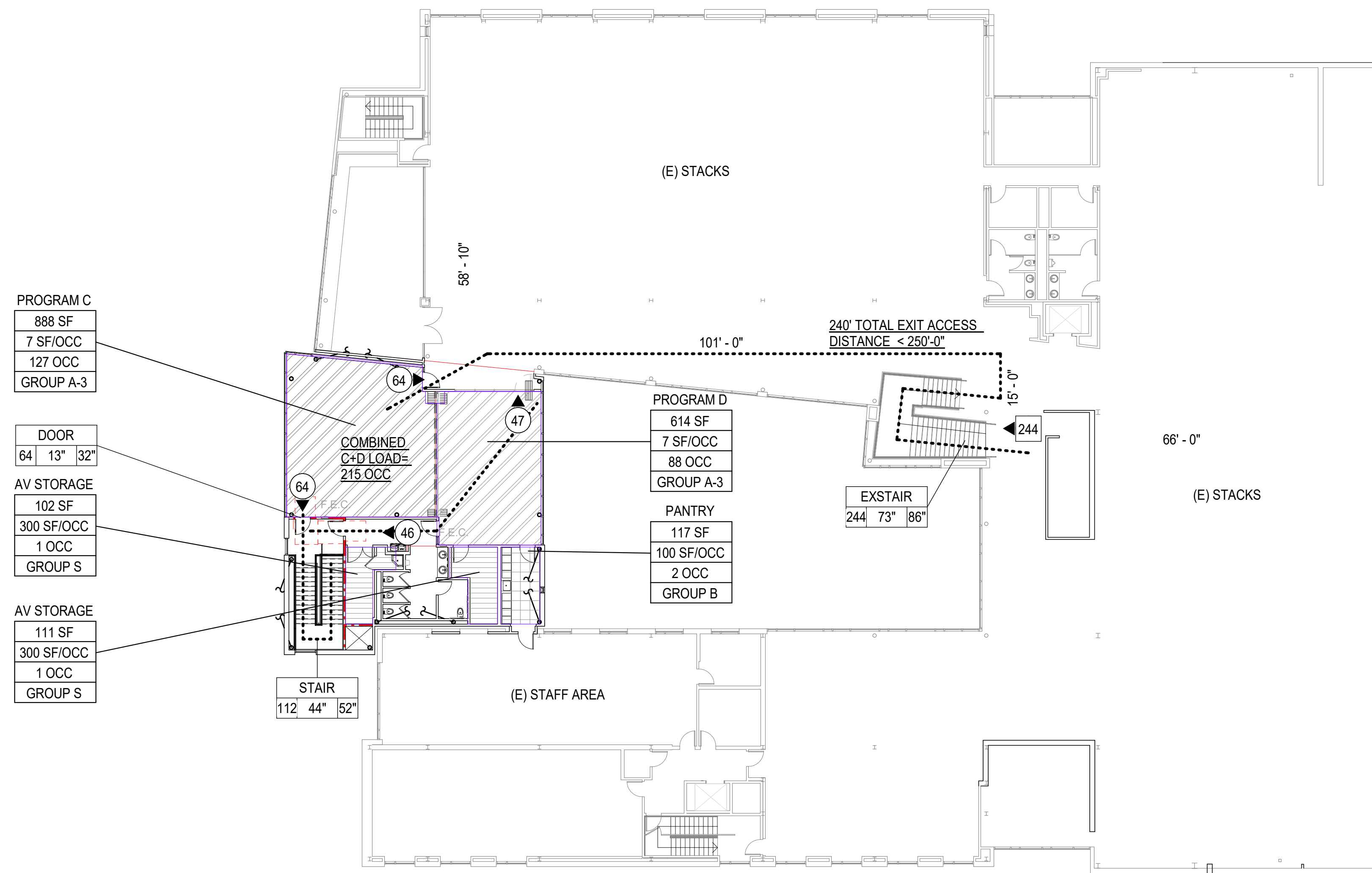
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Author

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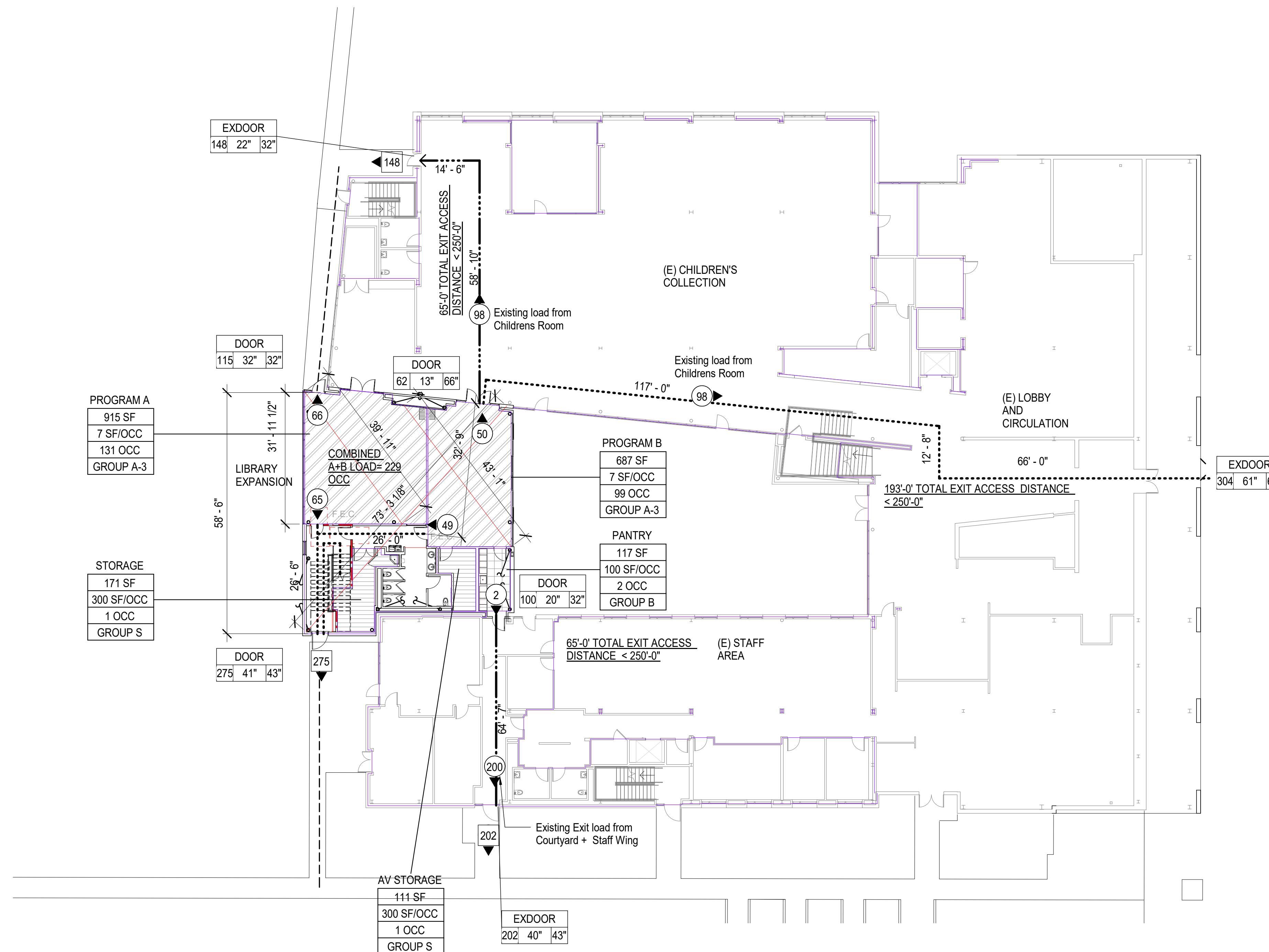
Sheet Title
**ACCESSIBILITY
SITE PLAN**

Sheet Number

G0.03



4 FIRE LIFE SAFETY PLAN - LEVEL 2
G0.04 SCALE: 1/16" = 1'-0"



2 FIRE LIFE SAFETY PLAN - LEVEL 1
G0.04 SCALE: 1/16" = 1'-0"

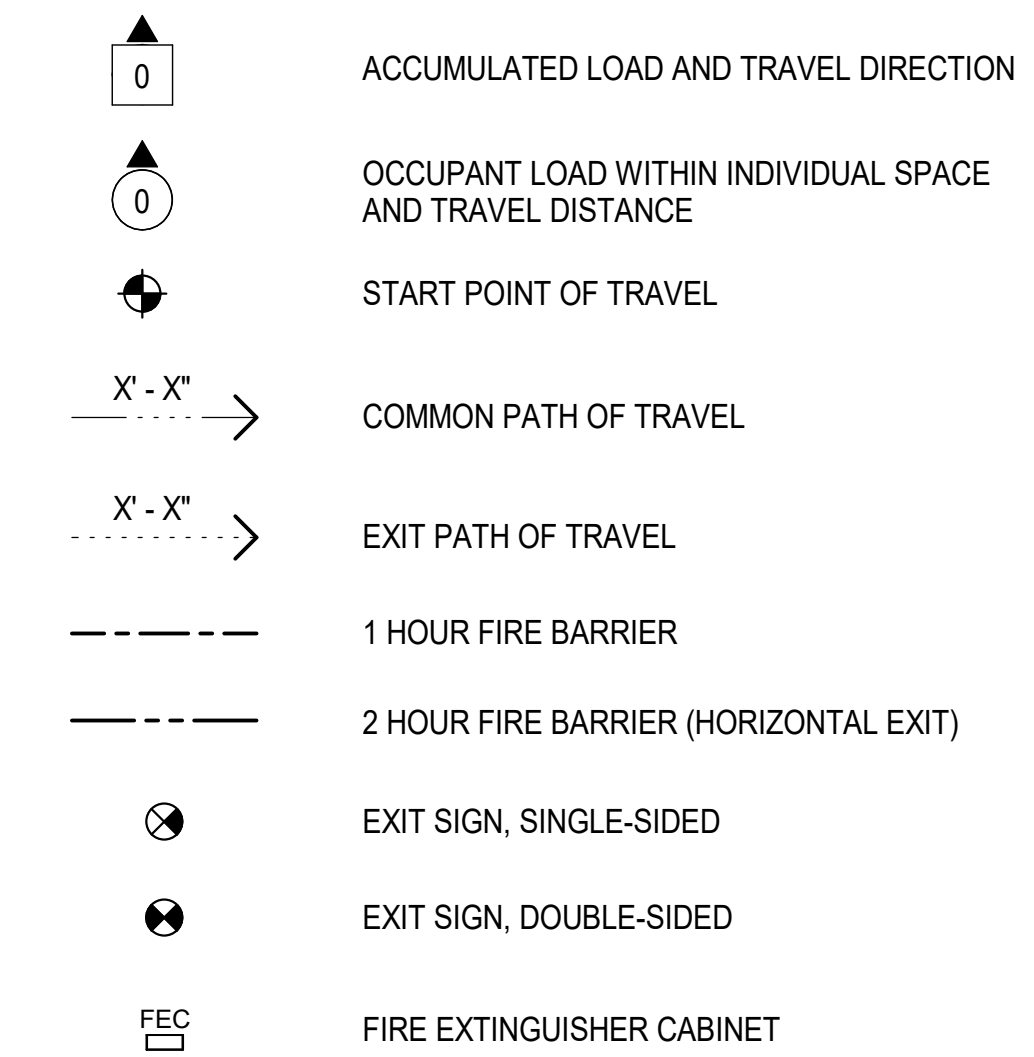
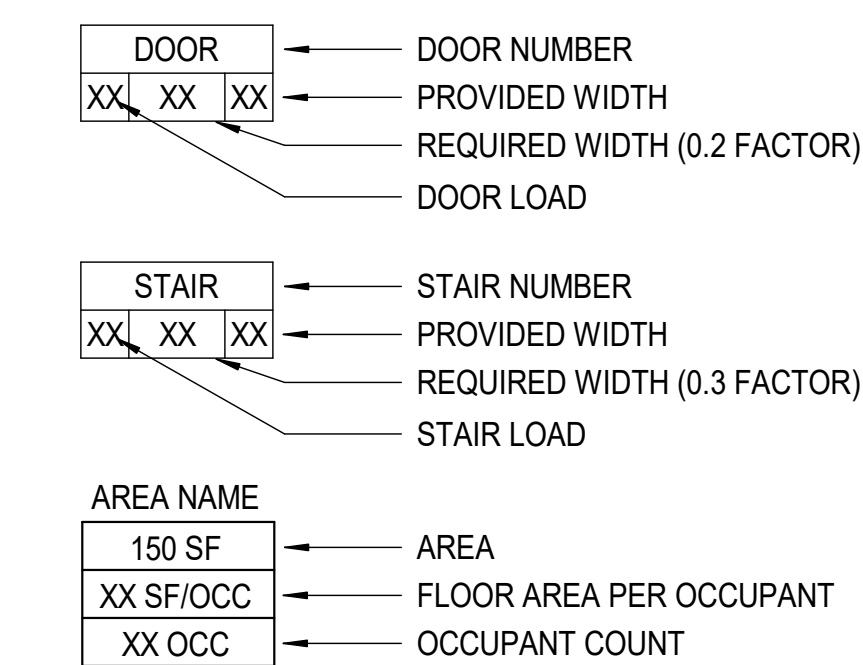
FLOOR AREA AND OCCUPANCY LOAD

FLOOR AREA EXCLUDING SHAFTS AND EXITS:
3972 SF

OCCUPANT LOAD:
4 OCCUPANTS - BUSINESS AREAS
450 OCCUPANTS - ACCESSORY UNCONCENTRATED ASSEMBLY WITHOUT FIXED SEATS
4 OCCUPANTS - ACCESSORY STORAGE, MECHANICAL EQUIPMENT ROOMS
458 TOTAL OCCUPANTS

NOTES:
CBC 2019, SECTION 303.1 ASSEMBLY AREAS EXCEPTION 2:
A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANCY LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LIFE SAFETY AND EXITING LEGEND



FUNCTION OF SPACE	PATTERN	OCCUPANT LOAD FACTOR
ASSEMBLY, UNCONCENTRATED	[Diagonal Hatching]	15 NET
BUSINESS AREAS	[Solid Grey]	100 GROSS
KITCHENS, COMMERCIAL	[Vertical Hatching]	200 GROSS
LOCKER ROOMS	[Diagonal Hatching]	50 GROSS
MECHANICAL EQUIPMENT ROOM	[Horizontal Hatching]	300 GROSS
STORAGE ROOMS	[Vertical Hatching]	300 GROSS



Consultant

Stamp

Printing Date
COST MODEL DRAWINGS 05.04.2020
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Revisions and Description Date

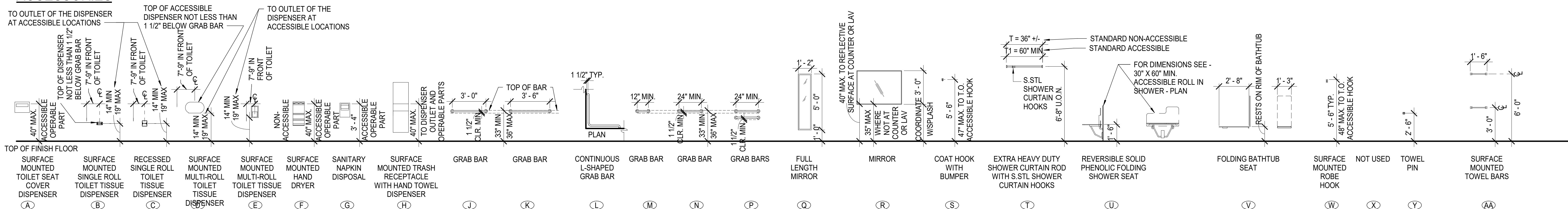
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Drawn by
JAM
EHDD Job Number
20013

Sheet Title
LIFE SAFETY PLAN
AND CODE REVIEW

Sheet Number

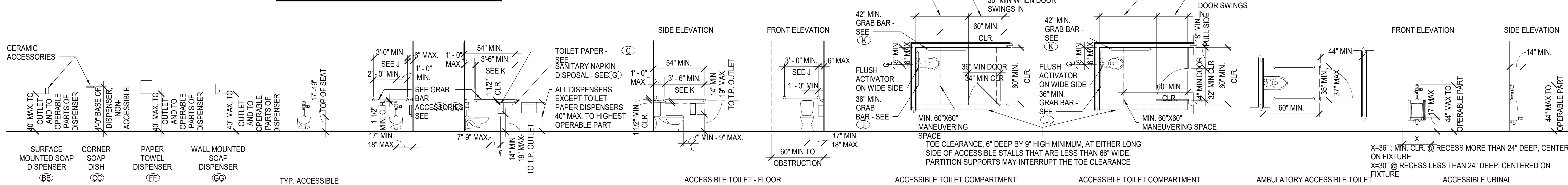
G0.04

ACCESSORIES

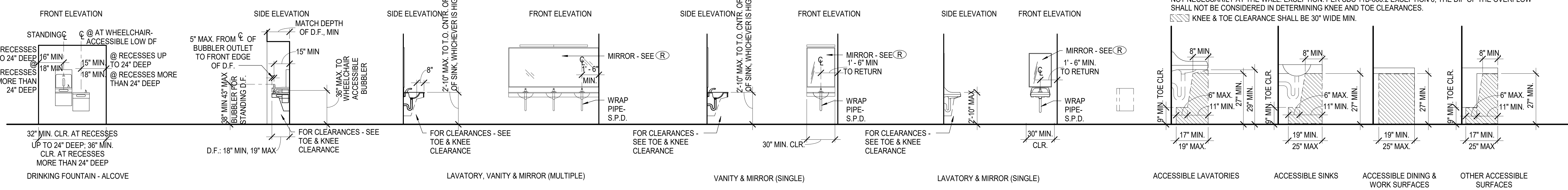


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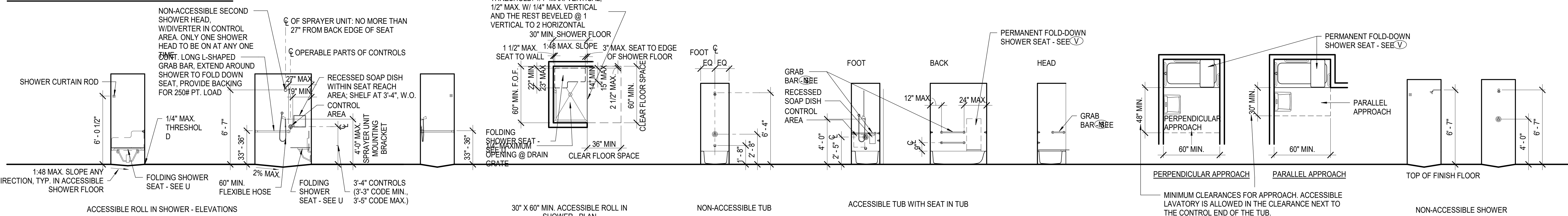
ACCESSIBLE PLUMBING FIXTURES



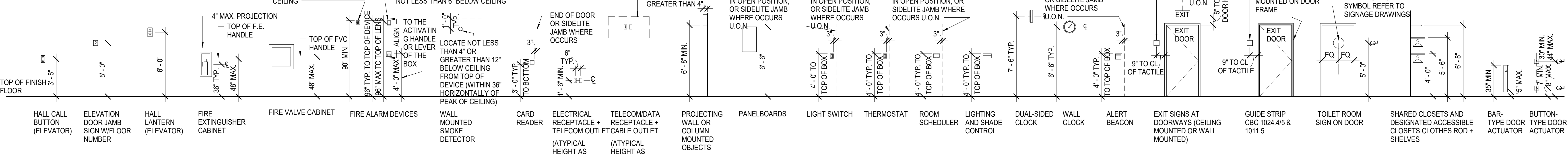
ACCESSIBLE PLUMBING FIXTURES



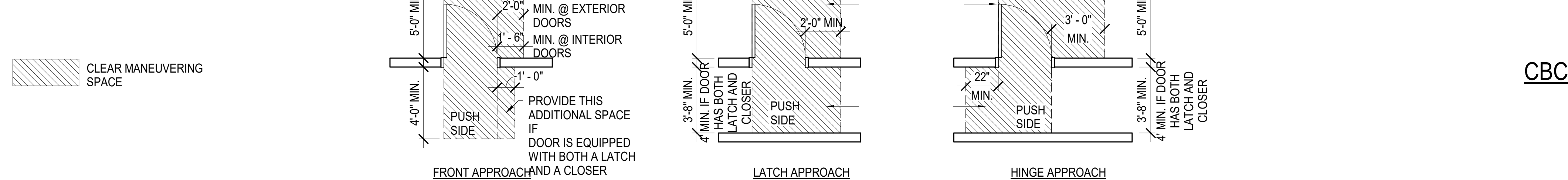
ACCESSIBLE PLUMBING FIXTURES



TYPICAL INTERIOR SIGNAGE AND FIXTURES



REQUIRED LEVEL MANEUVERING CLEARANCE AT DOORS



Consultant

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Printing	Date
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Revisions and Description	Date

Scale 1/4" = 1'-0"

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EHDD Job Number 20013

Sheet Title

ACCESSIBLE MOUNTING HEIGHTS

Sheet Number

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Scale

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Author
EHDD Job Number
20013

Sheet Title
**PERSPECTIVE
VIEWS**

Sheet Number

G4.01



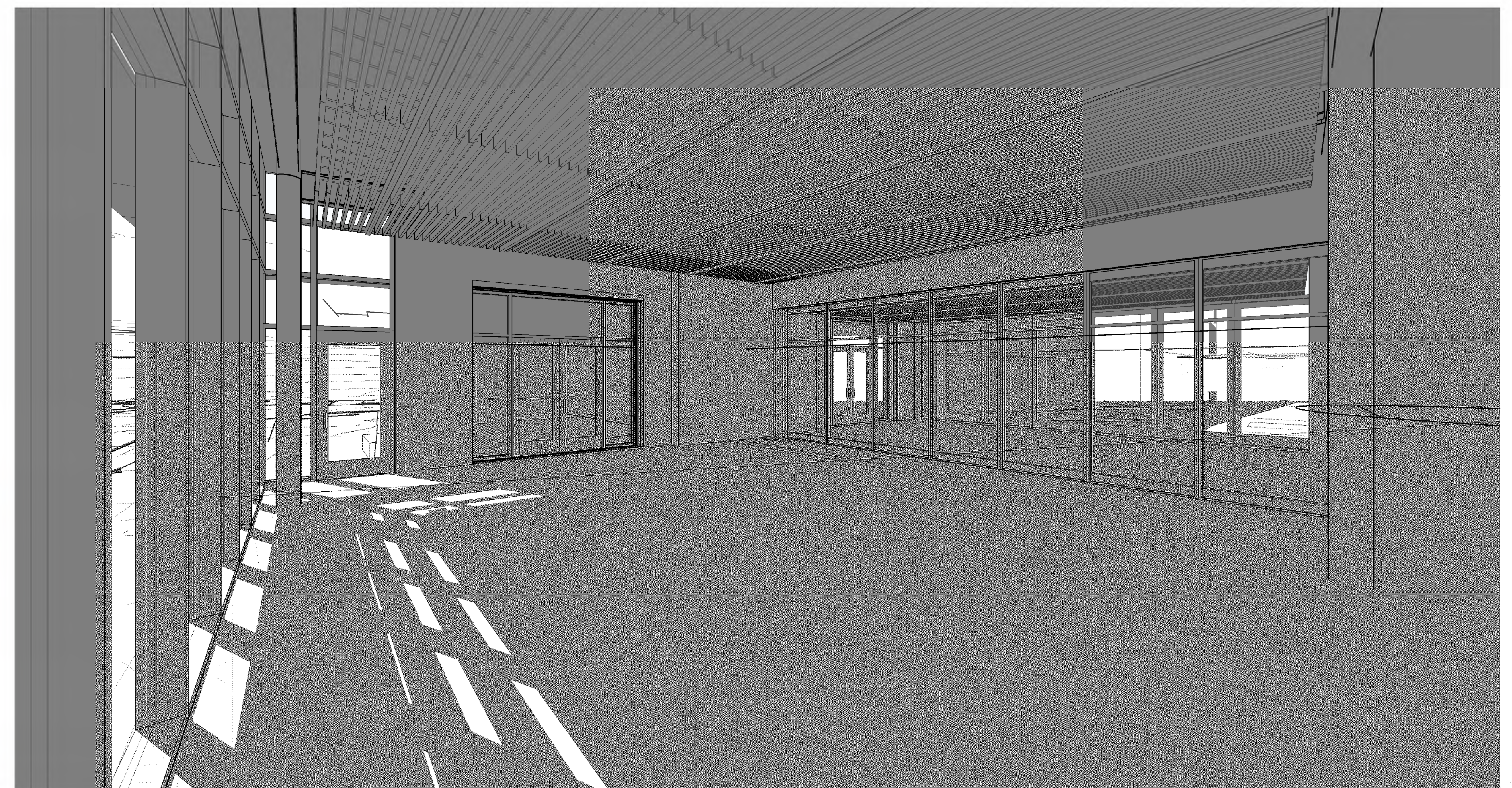
SOUTHEAST CORNER



COURTYARD



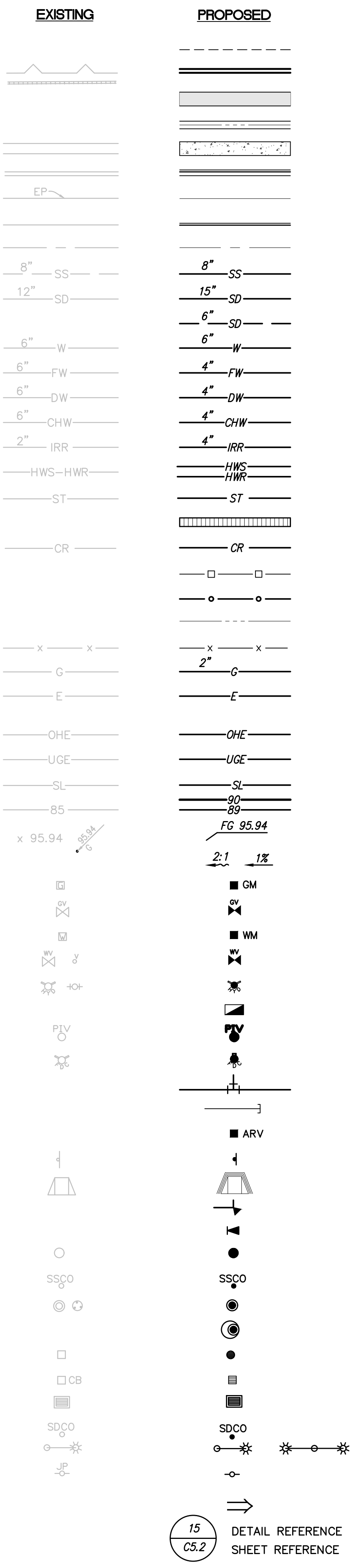
SOUTHWEST CORNER



LEVEL 1 - SE CORNER

LEGEND

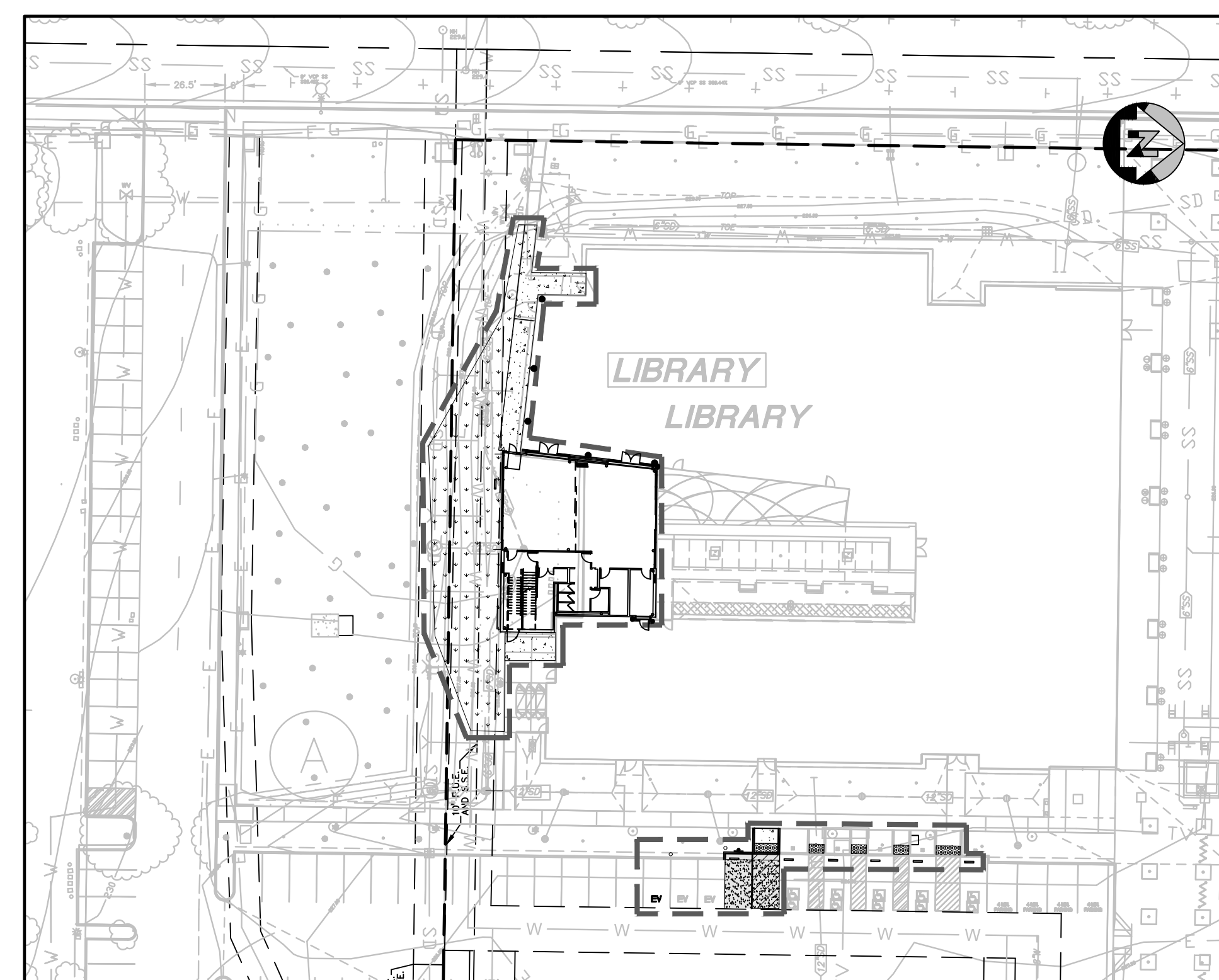
- SAWCUT AND CONFORM LINE
RETAINING WALL
A.C. PAVEMENT
CONC. VALLEY GUTTER
CONC. SIDEWALK OR PAD
6" CURB & GUTTER
EDGE OF A.C. PAVEMENT
6" VERTICAL CURB
CENTER LINE
SANITARY SEWER MAIN
STORM DRAIN MAIN
PERFORATED PIPE
WATER MAIN
FIRE WATER MAIN
DOMESTIC WATER MAIN
CHILLED WATER MAIN
IRRIGATION LINE
HOT WATER SUPPLY & RETURN
STEAM LINE
TRENCH DRAIN
CONDENSATE RETURN
METAL BEAM GUARD RAIL
SILT FENCE
FLOW LINE
CHAIN LINK FENCE
GAS MAIN
ELECTRIC AND SIGNAL DUCT BANK
OVERHEAD ELECTRIC LINE
UNDERGROUND ELECTRIC LINE
STREET LIGHT CONDUIT
CONTOUR ELEVATION LINE
SPOT ELEVATION
DIRECTION OF SLOPE
GAS METER
GAS VALVE
WATER METER
WATER VALVE
FIRE HYDRANT
BACK FLOW PREVENTOR
POST INDICATOR VALVE
FIRE DEPARTMENT CONNECTION
WATER LINE TEE
CAP AND PLUG END
AIR RELEASE VALVE
SIGN
ACCESSIBLE RAMP
CONCRETE THRUST BLOCK REDUCER
SANITARY SEWER MANHOLE
SANITARY SEWER CLEANOUT
STORM DRAIN MANHOLE
STORMCEPTOR
STORM DRAIN AREA DRAIN
STORM DRAIN CATCH BASIN
STORM DRAIN CURB INLET
STORM DRAIN CLEANOUT
ELECTROLIER
JOINT POLE
OVERLAND RELEASE
CONSTRUCTION DETAIL REFERENCE



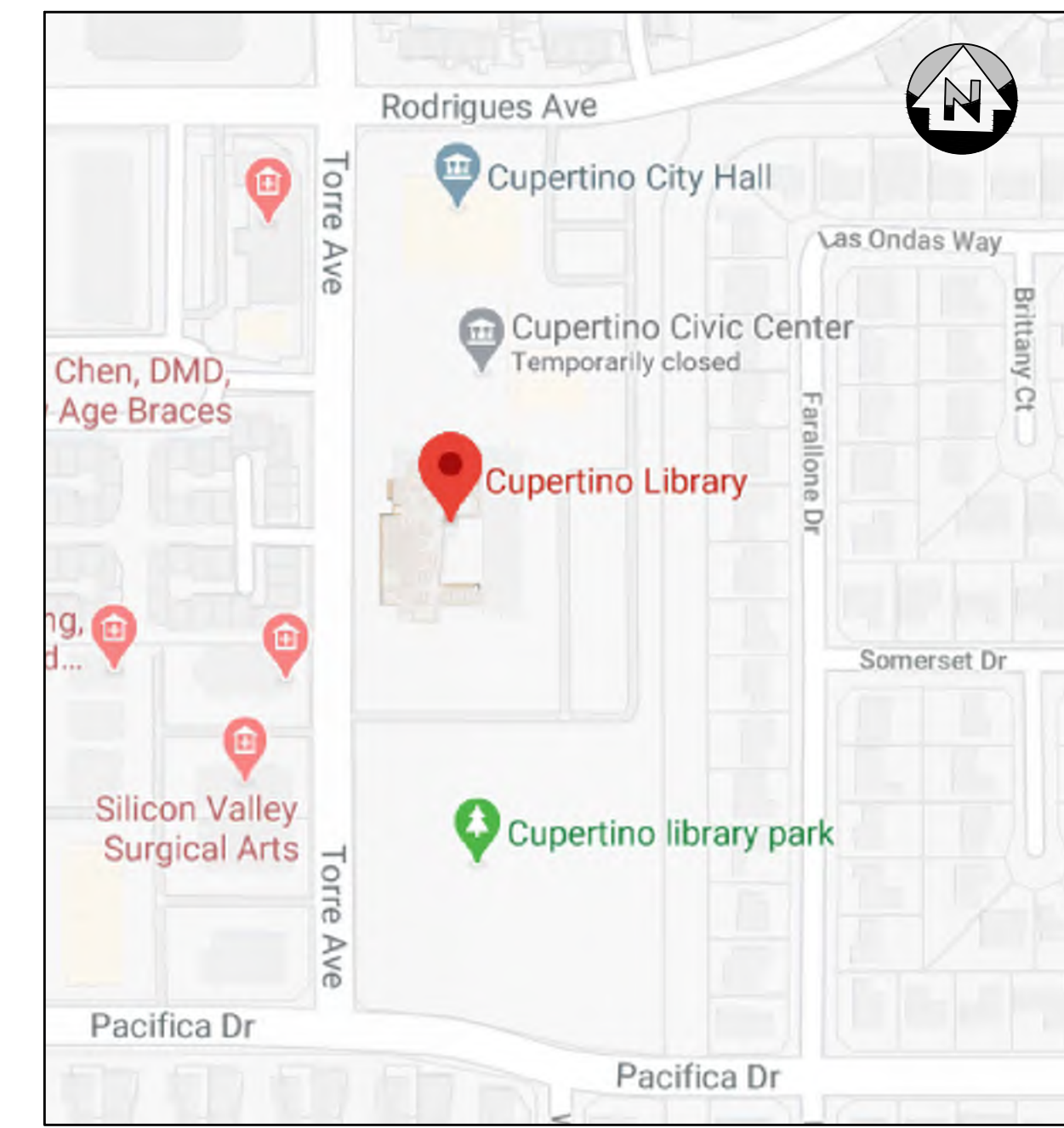
ABBREVIATIONS

- AB - AGGREGATE BASE
AC - ASPHALT CONCRETE
AD - AREA DRAIN
ADA - AMERICANS WITH DISABILITIES ACT
ASB - AGGREGATE SUBBASE
BC - BEGINNING OF CURVE
BFP - BACK FLOW PREVENTOR
BLDC - BUILDING CORNER
BLDG - BUILDING
BOD - BOTTOM OF DOCK
BOL - BOLLARD
BOS - BOTTOM OF STEP
BOW - FG @ BOTTOM OF WALL
BWC - BEGIN VERTICAL CURVE
BW - BACK OF WALK
C - CONCRETE OR CURE
C&G - CURB AND GUTTER
CB - CATCH BASIN
CI - CURB INLET
CIP - CAST IRON PIPE
CL - CENTER LINE OR CLASS
CMP - CORRUGATED METAL PIPE
CO - CONCRETE
CONC - CONSTRUCTION OR CONSTRUCT
CONST - CONSTRUCTION
CY - CUBIC YARD
DCCA - DOUBLE CHECK DETECTOR ASSEMBLY
DIP - DUCTILE IRON PIPE
DOM - DOMESTIC WATER
DWC - DRAWING
ELEV - ELEVATION
EK, EXST. - EXISTING
EAS - FACE OF CURB
FDC - FIRE DEPARTMENT CONNECTION
FF - FINISHED FLOOR
FG - FINISHED GRADE
FH - FIRE HYDRANT
FL - FLOW LINE
FOUND - FOUNDATION
FS - FINISHED SURFACE
FT - FOOT
FW - FIRE WATER
G - GRADE ELEVATION
GB - GRADE BREAK
GP - GATE VALVE
HAP - ACCESSIBLE RAMP
HP - HIGH POINT
I - INVERT ELEVATION
JP - JOINT POLE
JT - JOINT TRENCH
LP - LIP OF GUTTER
LSP - LOW POINT
LSA - LANDSCAPE ARCHITECT
MAX - MAXIMUM
MER - MECHANICAL/ELECTRICAL/PLUMBING
MH - MANHOLE
MIN - MINIMUM
MPC - MIDPOINT OF VERTICAL CURVE
MON - MONUMENT
N - NORTH
N.I.C. - NOT IN CONTRACT
NO - NUMBER
NTS - NOT TO SCALE
PE - PAVEMENT ELEVATION
PCC - PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
PIV - POST INDICATOR VALVE
PL - PROPERTY LINE
PMH - POWER MANHOLE
PP - POWER POLE
PPC - POINT OF REVERSE CURVATURE
PVC - POLYVINYL CHLORIDE PIPE
R - RADIUS
RC - RELATIVE COMPACTION
RCP - REINFORCED CONCRETE PIPE
RPPA - REDUCED PRESSURE PRINCIPLE ASSEMBLY
R/W - RIGHT OF WAY
S - SLOPE OR SOUTH
S.A.D. - SEE ARCHITECTURAL DRAWINGS
SB - SEDIMENT BASIN
SD - SEE ELECTRICAL DRAWINGS
S.F. - SILT FENCE
SP - SUBGRADE
S.L.D. - SEE LANDSCAPE DRAWINGS
S.M.D. - SEE MECHANICAL DRAWINGS
SMH - SIGNAL MANHOLE
S.P.D. - SEE PLUMBING DRAWINGS
SS - SANITARY SEWER
STA - STATION
STD - STANDARD
S/W - SIDEWALK
TC - TOP OF CURB
TD - TRENCH DRAIN
TOD - TOP OF DOCK
TOE - TOE OF SLOPE
TOS - TOP OF STAIR
TOW - FG @ TOP OF WALL
TS - TOP OF SLAB
TYP - TYPICAL
UN - UNLESS OTHERWISE NOTED
U/G - UNDERGROUND
VC - VERTICAL CURVE
VF - VERIFY IN FIELD
WM - WATER METER
WV - WATER VALVE
W - WEST
WFF - WEAVED WIRE FABRIC
W - WITH

CUPERTINO LIBRARY EXPANSION PROJECT 10800 TORRE AVE, CUPERTINO, CA 95014



SITE MAP 1" = 40'



VICINITY MAP

PROJECT DESCRIPTION

THE NEW ADDITION IS A 2-STORY STRUCTURE OF APPROXIMATELY 4,416 SF THAT WILL BE ADDED TO THE EXISTING LIBRARY. DEVELOPMENT WILL INCLUDE DEMOLITION OF A PORTION OF THE EXISTING LIBRARY, UTILITY CONNECTIONS TO THE ADDITION, AND CREATING AN ACCESSIBLE ELECTRIC VEHICLE STALL.

CIVIL SHEET INDEX

- C-1.0 COVER SHEET
C-1.1 NOTES
C-2.0 TOPOGRAPHIC SURVEY
C-3.0 DEMOLITION PLAN
C-4.0 SITE ACCESS & PARKING PLAN
C-5.0 GRADING & DRAINAGE PLAN
C-6.0 UTILITY PLAN
C-7.0 CONSTRUCTION DETAILS
C-8.0 EROSION CONTROL PLAN
C-8.1 EROSION CONTROL DETAILS
C-9.0 FIRE ACCESS PLAN



UNAUTHORIZED CHANGES AND USES
CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THE PLANS.

CONSTRUCTION STAKING

CONTRACTOR TO PROVIDE CONSTRUCTION STAKING. PLEASE CONTACT SANDIS / BRUCE CHU AT (650) 400-3023 OR bchu@sandis.net FOR A CONSTRUCTION STAKING ESTIMATE FOR THIS PROJECT.

CUPERTINO LIBRARY EXPANSION

10800 TORRE AVENUE CUPERTINO, CA 95014



PIER 1, BAY 2 THE EMBARCADERO SAN FRANCISCO, CA 94111
INFO@EHDD.COM +1 415-285-9193

SANDIS CIVIL ENGINEERS SURVEYORS PLANNERS
1700 S. Winchester Blvd, Suite 200, Campbell, CA 95008
P: 408.636.0990 F: 408.636.0999 www.sandis.net

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Table with columns: Printing, Date, COST MODEL, 05.04.2020

Revisions and Description Date

Scale NO SCALE
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EHDD Job Number 20013

Sheet Title COVER SHEET

Sheet Number C-1.0

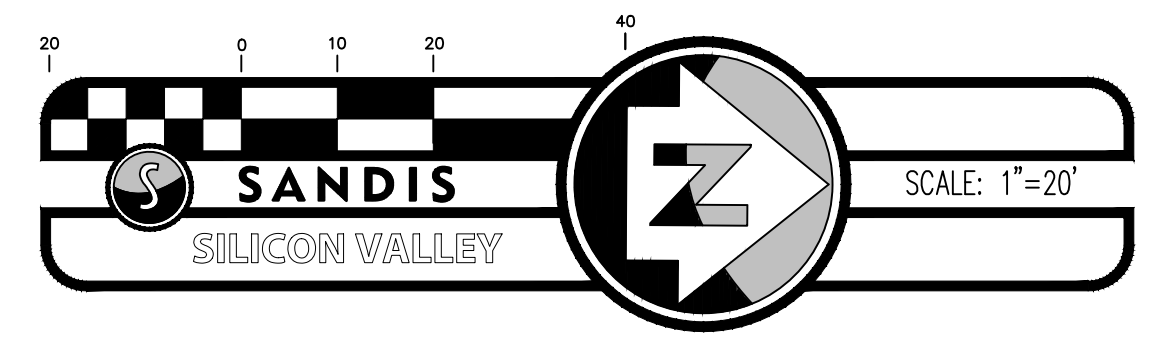
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Printing Date COST MODEL 05.04.2020

Revisions and Description Date

Scale 1" = 20' Drawn by TN EHDD Job Number 20013 Sheet Title TOPOGRAPHIC SURVEY

Sheet Number C-2.0

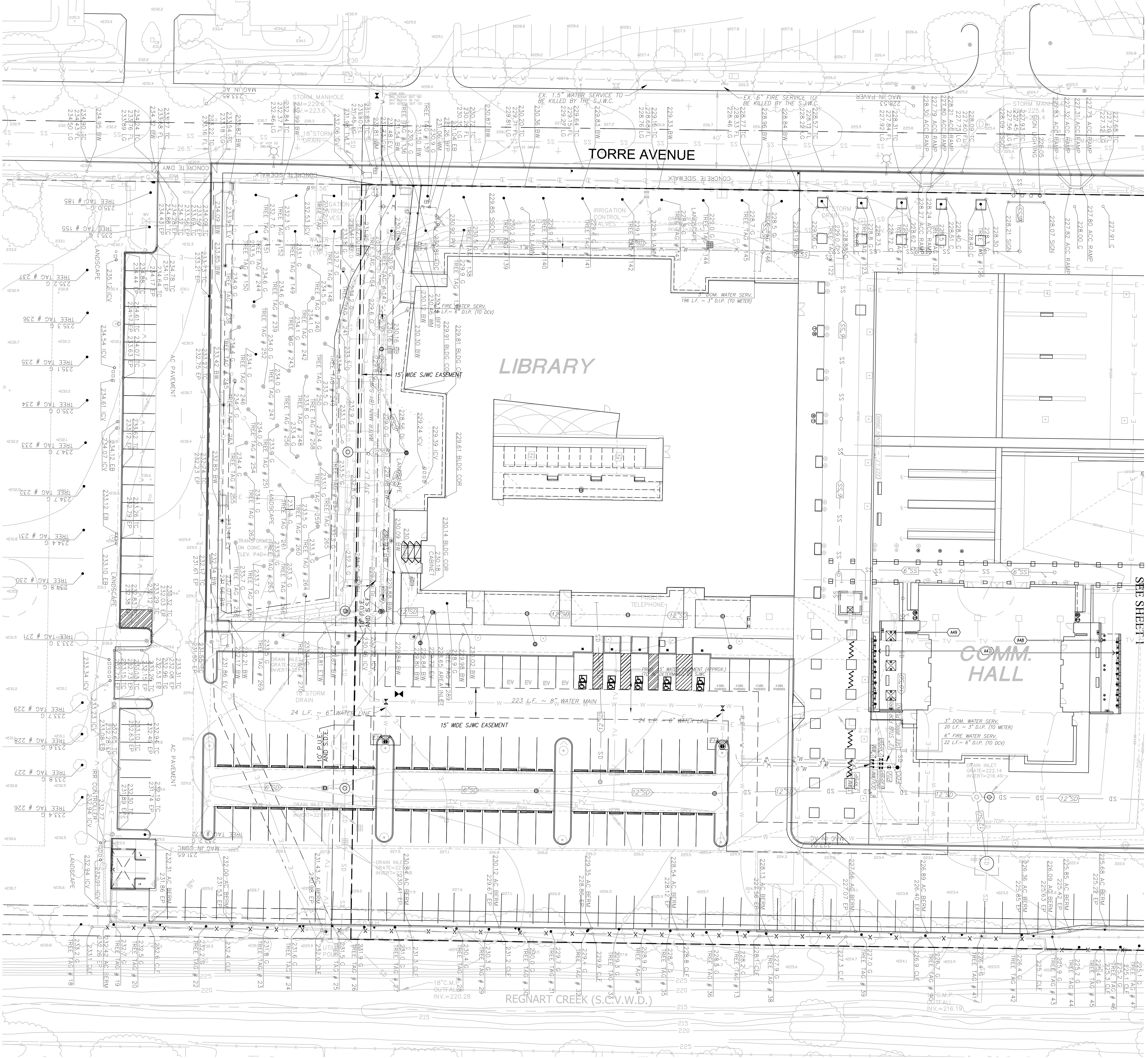


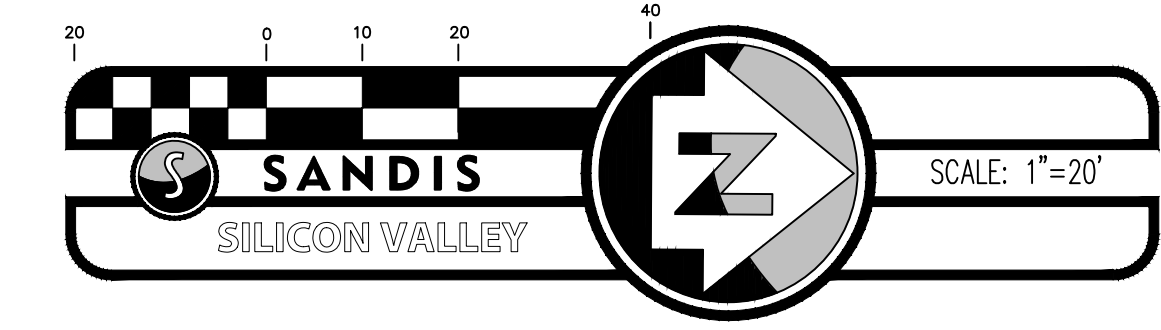
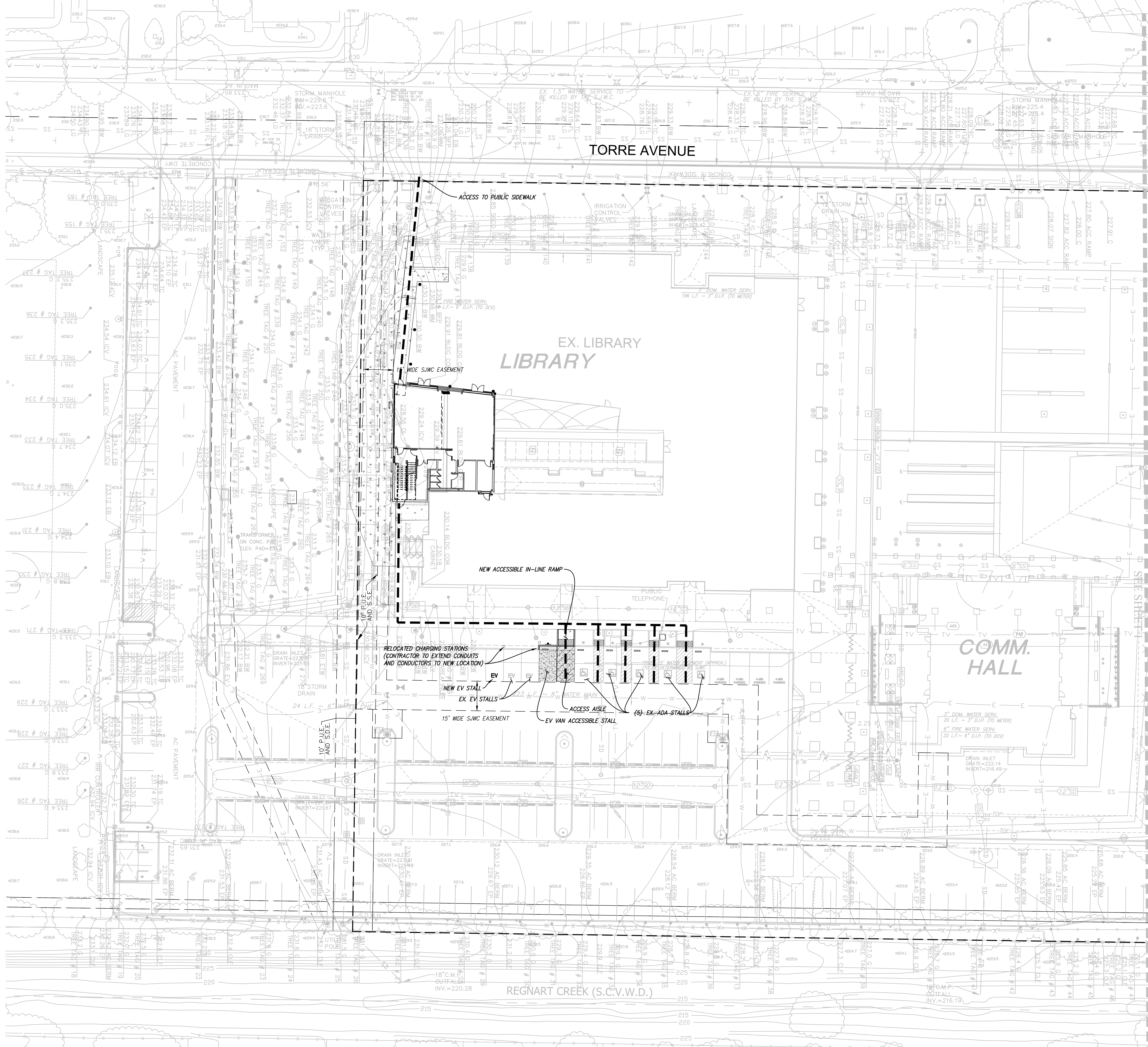
SURVEY NOTES

- 1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON TOPOGRAPHIC SURVEYS COMPLETED BY OTHERS. THESE SURVEYS INCLUDE: TOPOGRAPHIC SURVEY BY NELSON ENGINEERING, DATED MAY 2002 TOPOGRAPHIC SURVEY BY BKF ENGINEERS, DATED AUGUST 14, 2015
2. UTILITIES SHOWN ON THIS SURVEY ARE BASED ON DESIGN FILES. NO WARRANTIES ARE EXPRESSED OR IMPLIED CONCERNING THE EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL, OR PUBLIC OWNED.
3. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT BACK TO CIVIL ENGINEER ANY DISCREPANCIES WITH PLAN PRIOR TO COMMENCEMENT OF WORK.
4. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS OTHERWISE STATED ON THE MAP.

UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.





LEGEND
 --- PEDESTRIAN ACCESS PATH

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 +1-415-285-9193

Consultant
SANDIS
 CIVIL ENGINEERS
 SURVEYORS
 PLANNERS
 1700 S. Winchester Blvd.
 Suite 200, Campbell, CA 95008
 P. 408.636.0999
 F. 408.636.0999
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 EHDD Job Number 20013
 Sheet Title **SITE ACCESS & PARKING PLAN**

Sheet Number **C-4.0**

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THE EMBARCADERO
SAN FRANCISCO, CA 94111
INFO@EHDD.COM
+1 415-285-9193

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COST MODEL	05.04.2020

Revisions and Description	Date

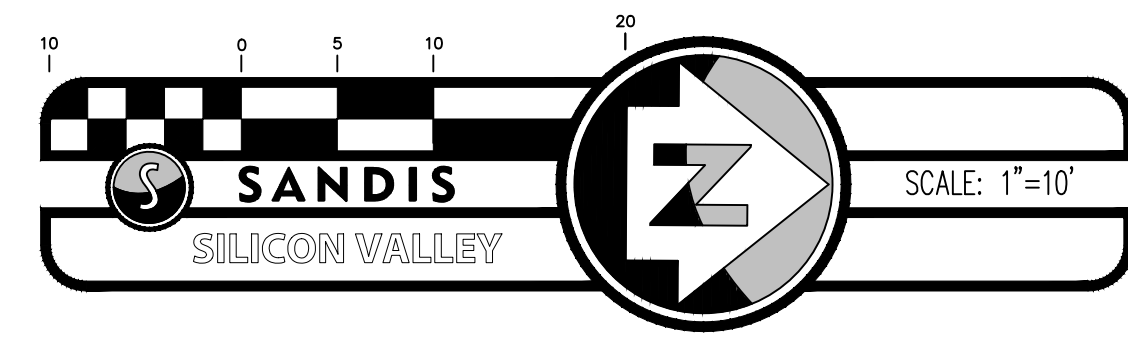
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Drawn by
TN

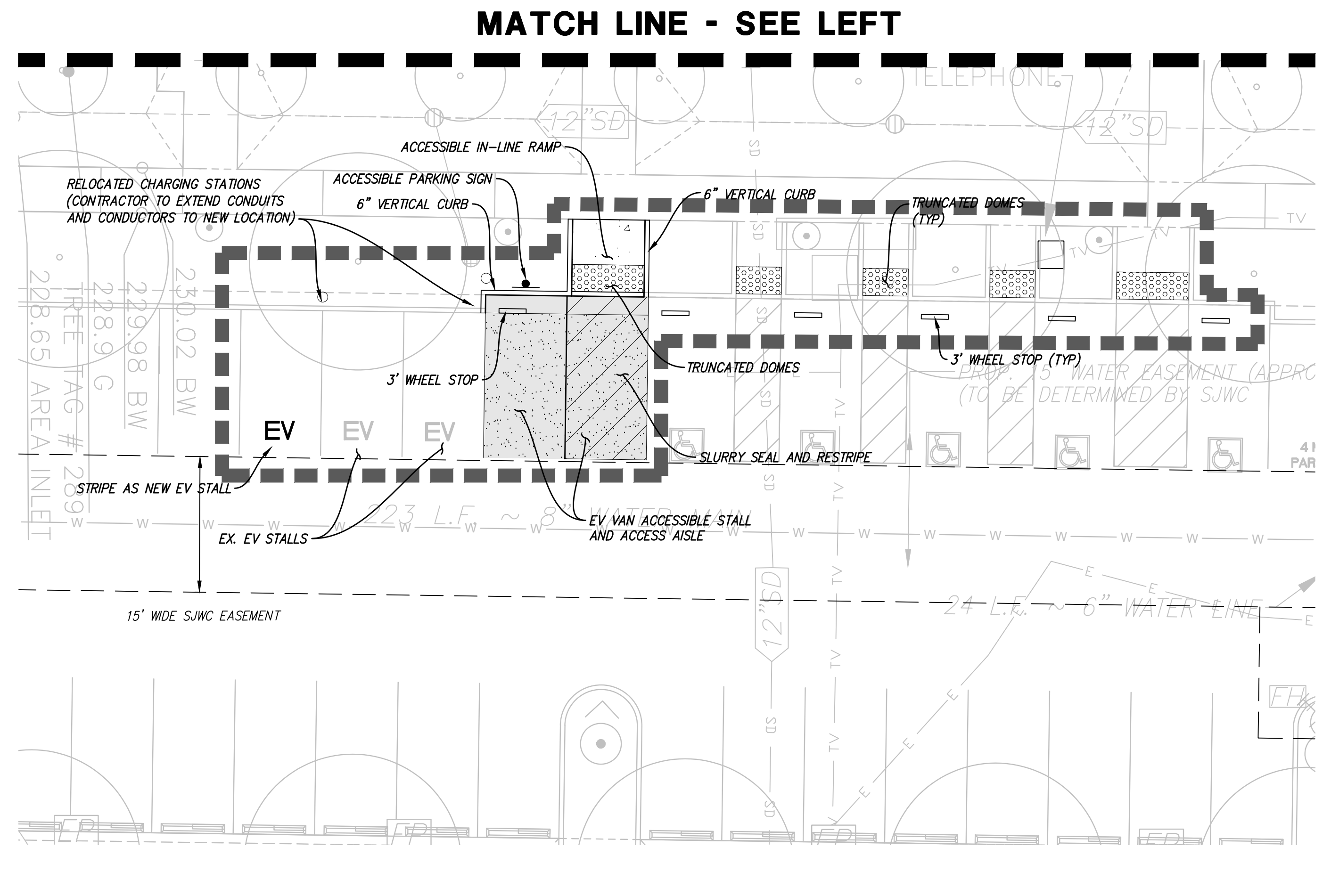
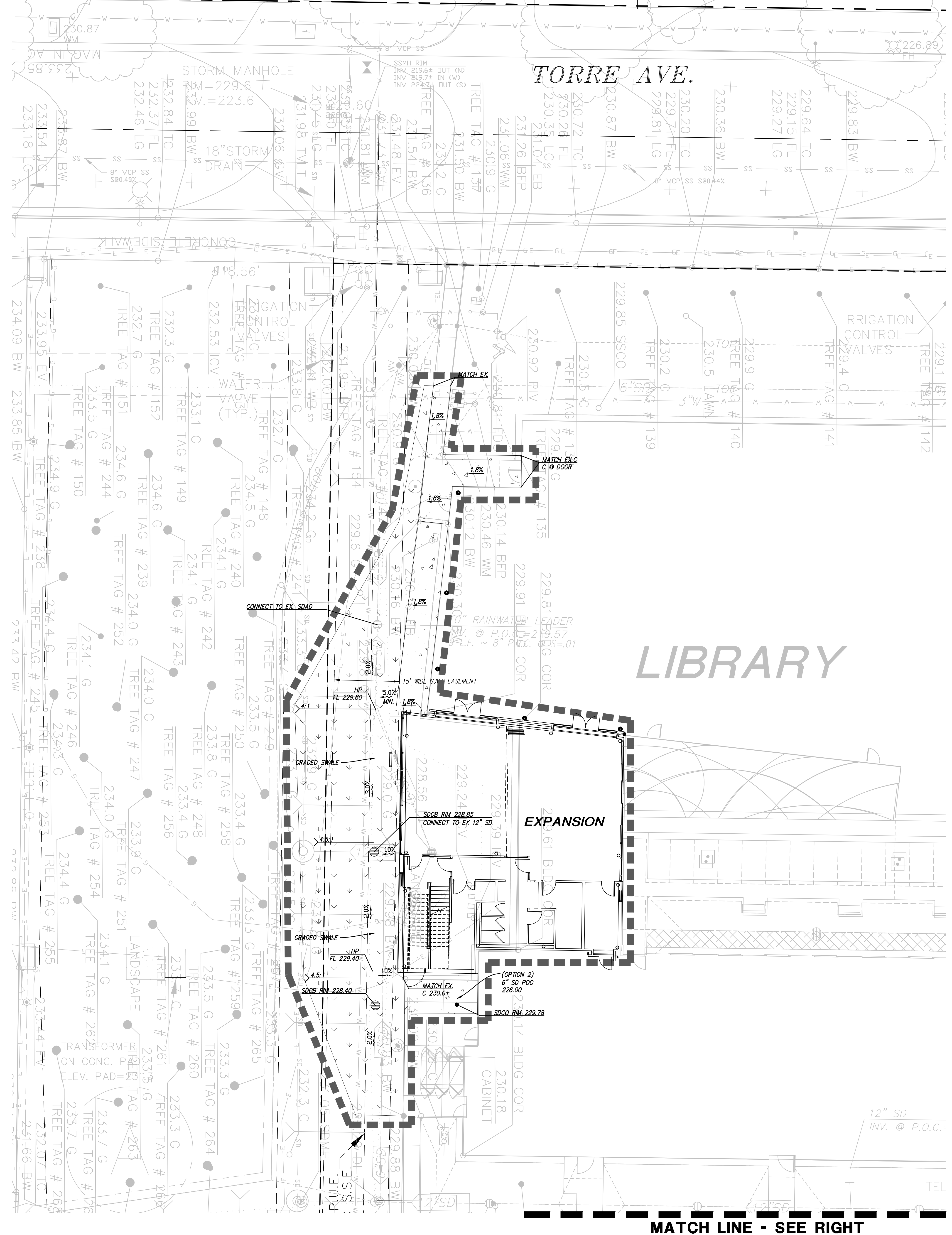
EHDD Job Number
20013

Sheet Title
GRADING & DRAINAGE PLAN

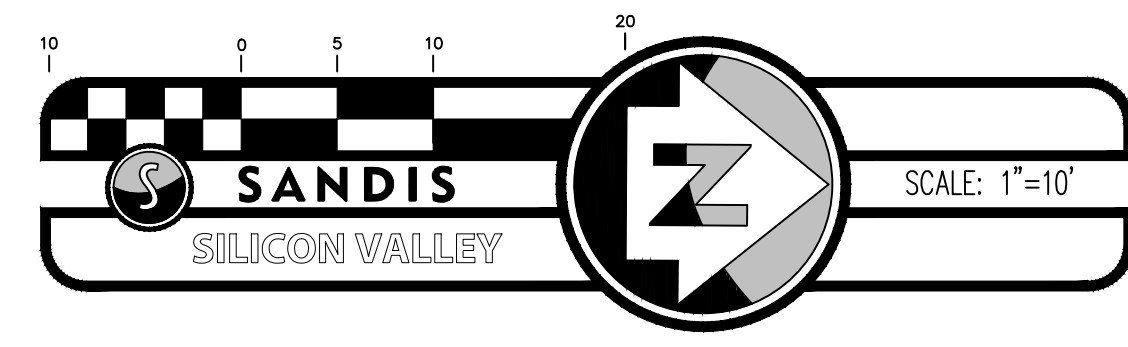
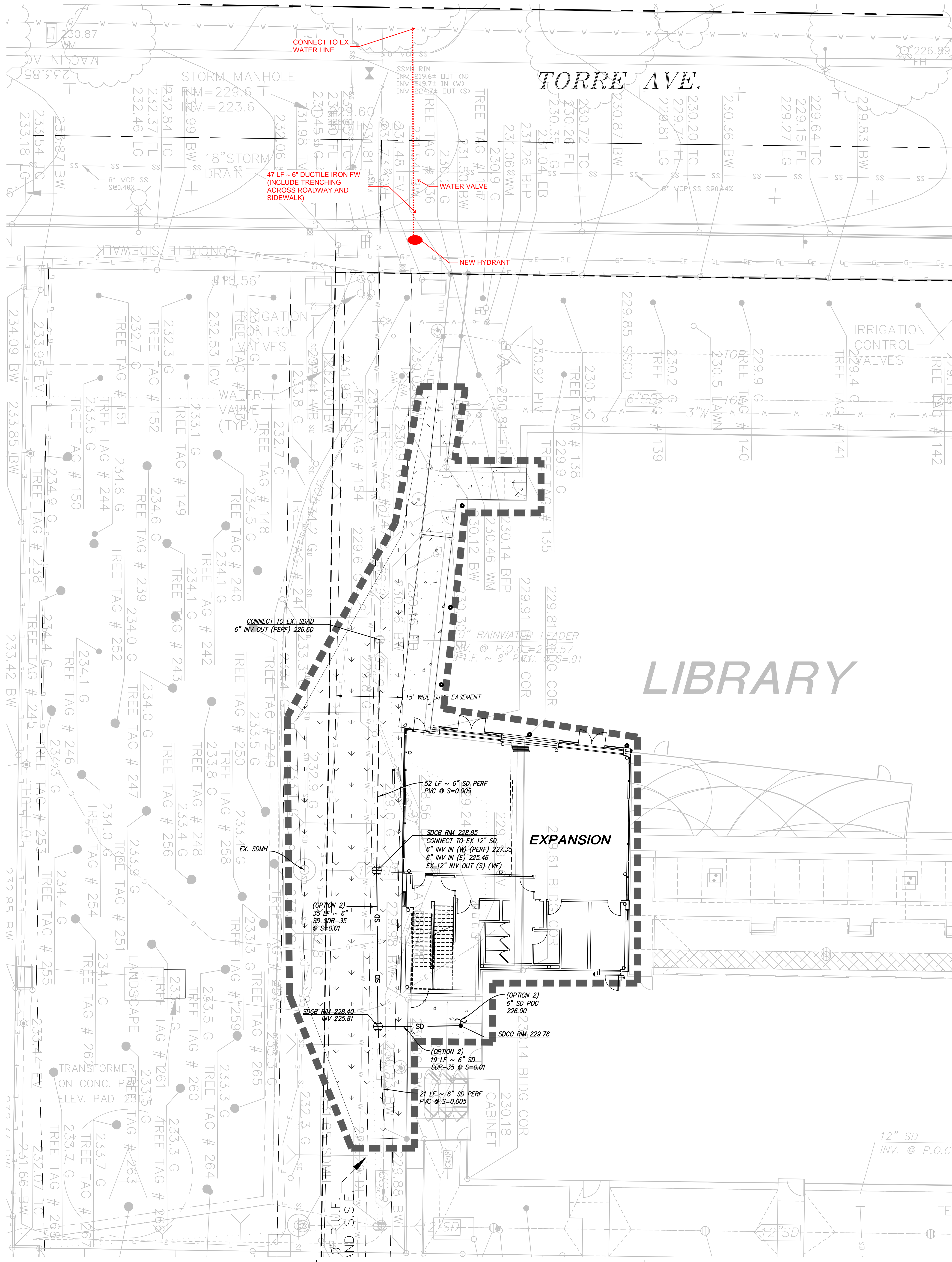
Sheet Number
C-5.0



- LEGEND**
- AC PAVEMENT
 - DEEP LIFT
 - SLURRY SEAL
 - CONCRETE SIDEWALK
 - PLANTING
 - DIRECTION OF STEEP SLOPE
 - FLOW LINE
 - GRADE BREAK
 - TOP OF SLOPE
 - TOE OF SLOPE
 - CONTOURS
1/4"
 - CONTOURS
1/8"
 - CURB LINE
 - RETAINING / SITE WALL
 - SAWCUT LINE
 - LIMIT OF WORK LINE (L.O.W.)



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- ### LEGEND
- LIMIT OF WORK LINE (L.O.W.)
 - PROPERTY LINE
 - SD STORM DRAIN LINE
 - PERFORATED PIPE
 - WATER LINE
 - CLEAN OUT
 - CATCH BASIN

UTILITY CONNECTION OPTIONS

DEPENDING ON THE EXISTING LIBRARY'S PLUMBING SYSTEM, THERE ARE TWO OPTIONS FOR SANITARY AND STORM DRAIN CONNECTIONS.

- OPTION 1: STORM DRAIN FOR THE EXPANSION WILL BE CONNECTED INTERNALLY TO THE EXISTING LIBRARY'S STORM LINE. SEE PLUMBING PLANS FOR ROUTING.
- OPTION 2: STORM DRAIN FOR THE EXPANSION WILL BE A NEW LATERAL FROM THE EXPANSION CONNECTING TO THE EXISTING 12" STORM LINE. SEE THIS SHEET FOR ROUTING.

STORM DRAIN NOTES

- PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-Traffic AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- PRIVATE STORM DRAIN LINE 6-INCH THROUGH 12-INCH WITH LESS THAN THREE (3) FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED FOR 150 PSI CLASS PIPE, PROVIDE AND INSTALL "STORM DRAIN" MARKER TAPE FOR THE ENTIRE LENGTH OF PIPE TRENCH. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, OBTUSE ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
- ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
- FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR GROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- INSTALL SEPARATE SUB-DRAIN SYSTEM BEHIND RETAINING WALLS PER GEOTECHNICAL REPORT AND CONNECT TO STORM DRAIN SYSTEM AS SHOWN ON PLANS.
- ALL DOWN SPOUTS SHALL DISCHARGE DIRECTLY ON TO ADJACENT PERVIOUS SURFACES OR SPLASH BLOCKS UNLESS OTHERWISE NOTED ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.

GENERAL NOTES

- CONTRACTOR SHALL POPTHOLE TO VERIFY EXISTING UTILITY INVERTS AT ALL UTILITY CROSSINGS.

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THE EMBARCADERO
SAN FRANCISCO, CA 94111

INFO@EHDD.COM
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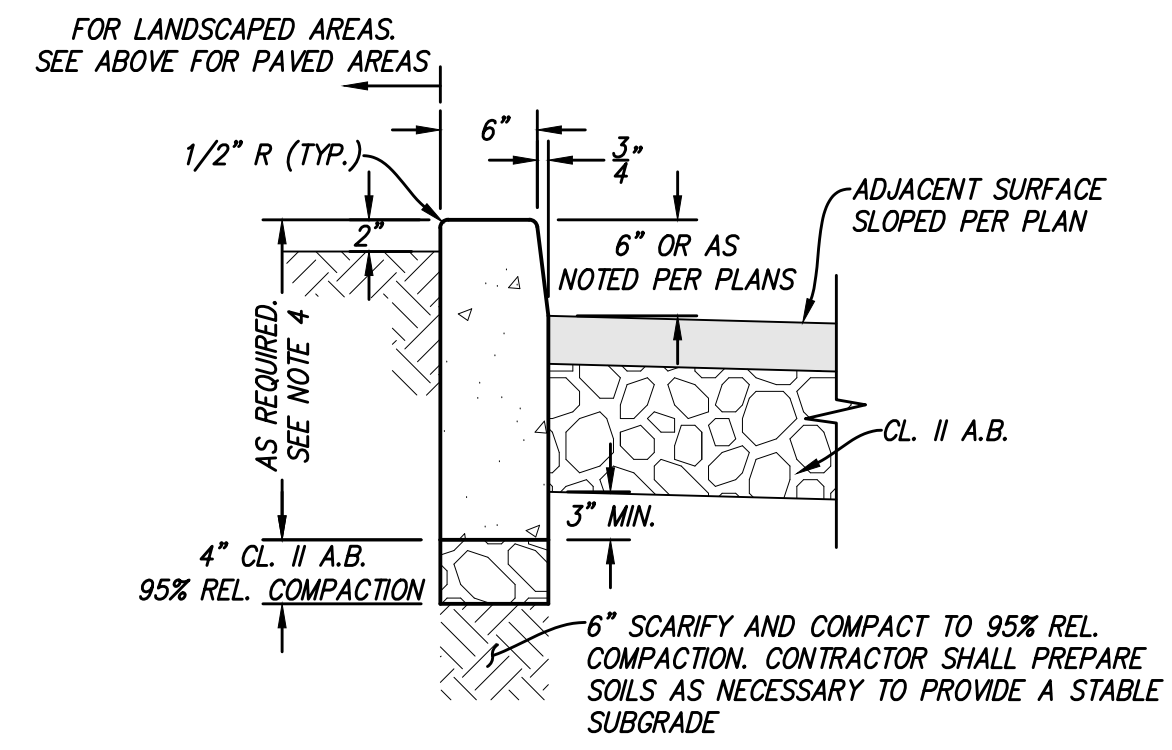
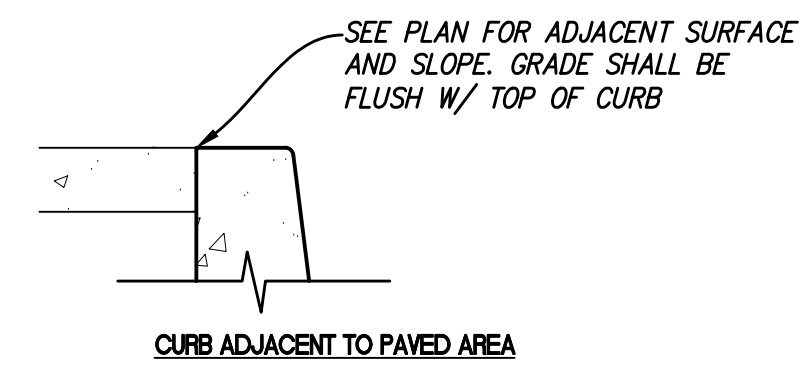
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Sheet Title

UTILITY PLAN

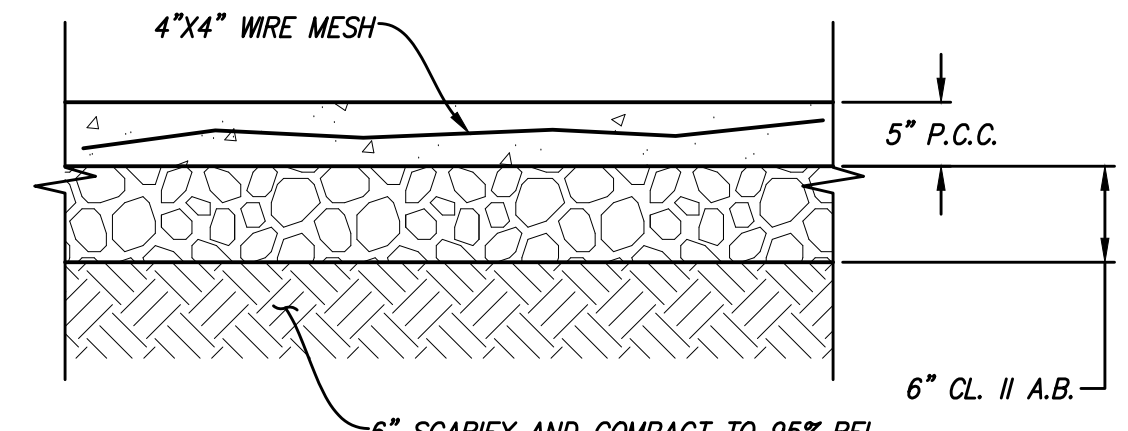
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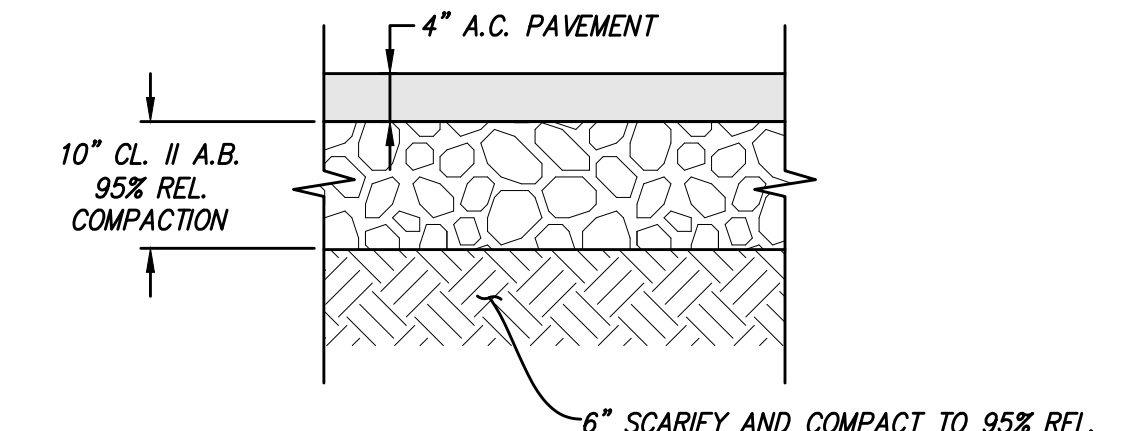
- NOTES: 1. ALL EXPOSED CONCRETE EDGES (HORIZONTAL AND VERTICAL) SHALL BE 1/2" RADIUS... 2. #4 X 12" SLIP DOWELS AND 1/4" EXPANSION JOINTS TO BE PROVIDED 20' ON CENTER...

6" VERTICAL CURB N.T.S.



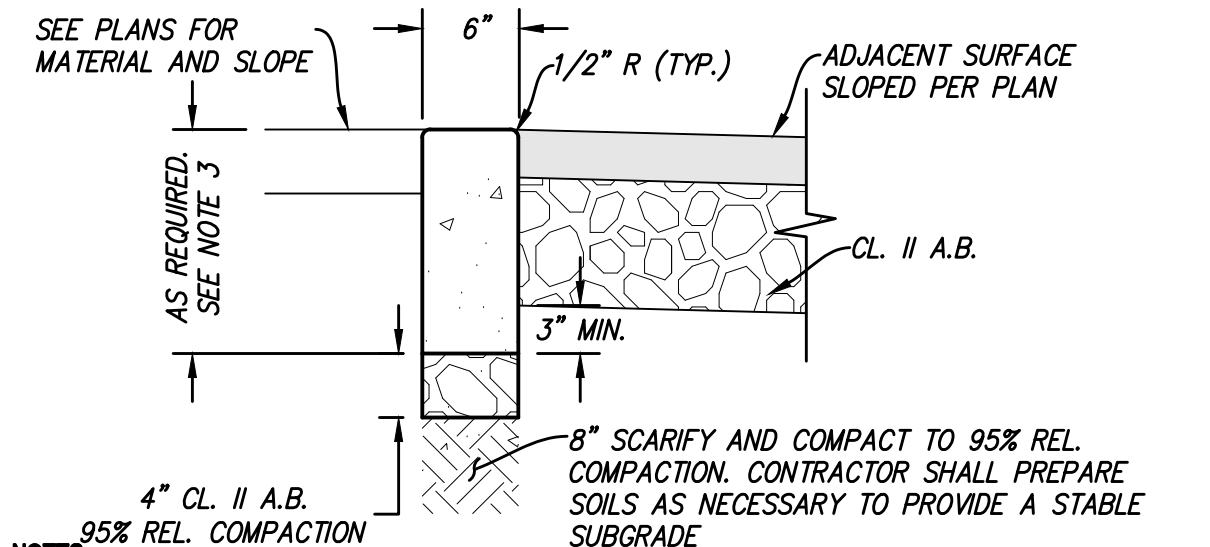
- NOTES: 1. SEE LANDSCAPE PLANS FOR SCORING PATTERN AND COLOR... 2. SUBGRADE AND AGGREGATE BASE SHALL BE COMPACTED PER GEOTECHNICAL RECOMMENDATIONS...

CONCRETE SIDEWALK N.T.S.



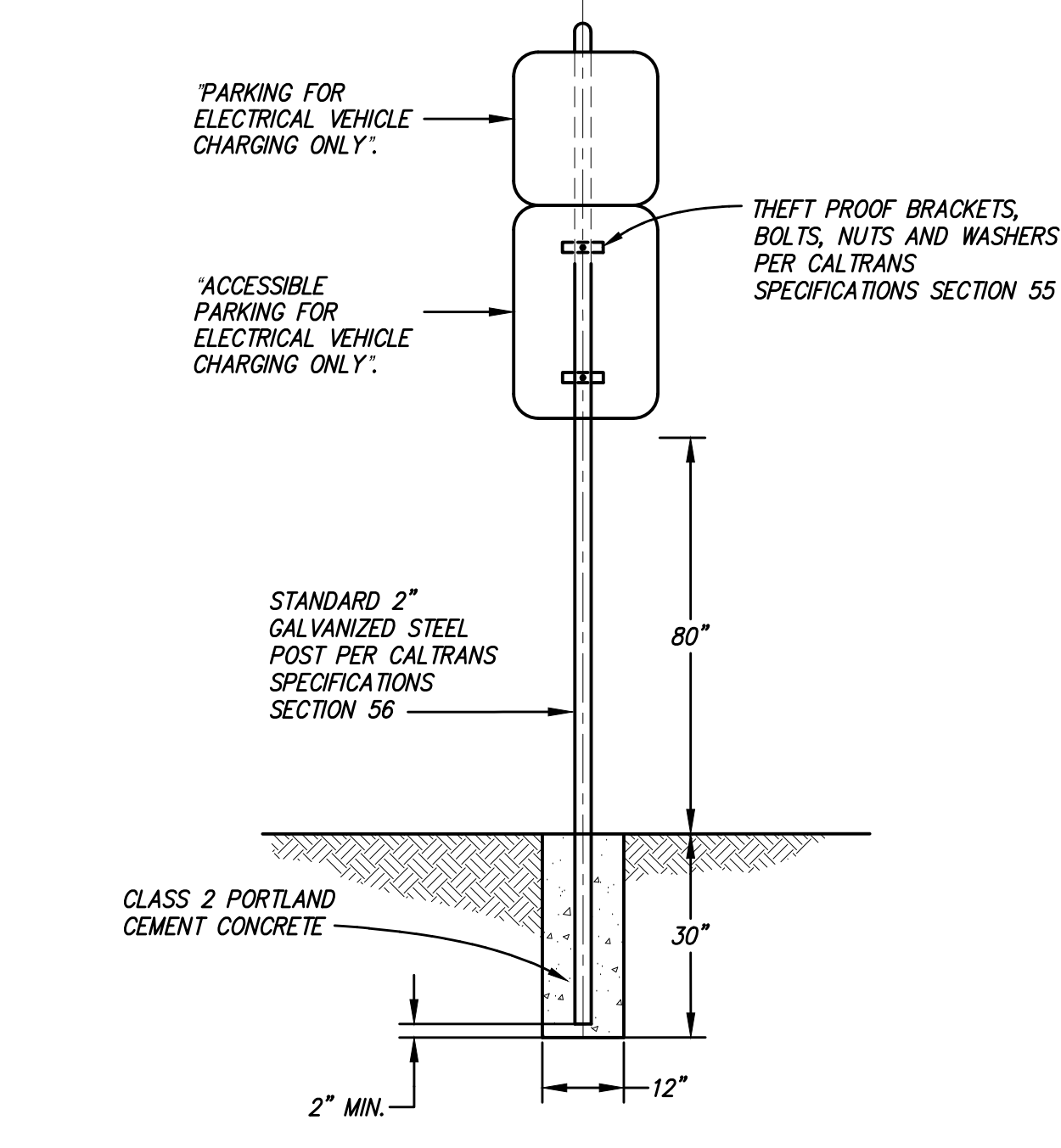
- NOTES: 1. REFER TO THE GEOTECHNICAL REPORT FOR T AND R-VALUES AND SUBGRADE AND AGGREGATE BASE COMPACTION REQUIREMENTS.

ASPHALT PARKING PAVEMENT SECTION N.T.S.

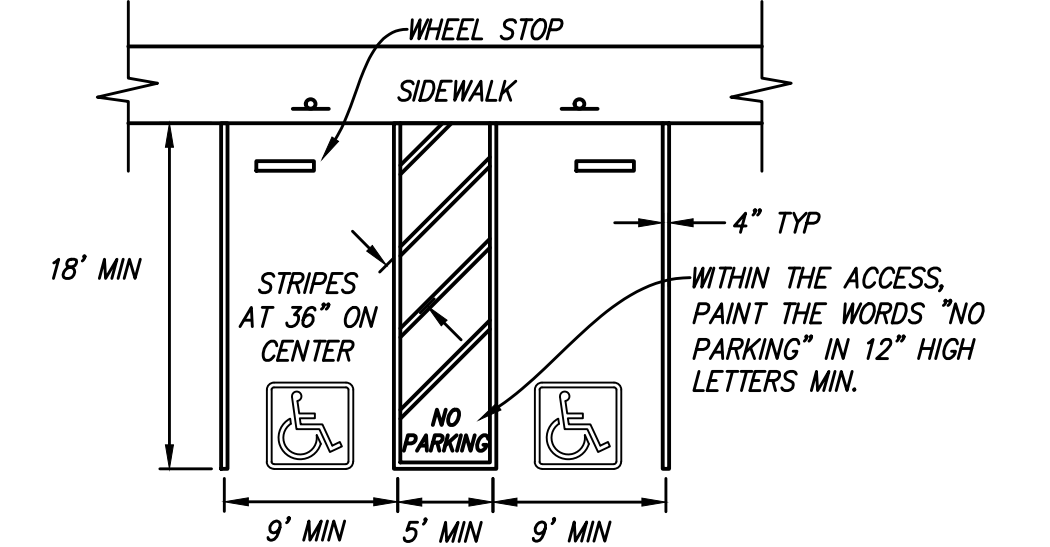


- NOTES: 1. #4 X 12" SLIP DOWELS AND 1/4" EXPANSION JOINTS TO BE PROVIDED 20' ON CENTER... 2. REFER TO PLANS AND GEOTECHNICAL REPORT FOR ADJACENT PAVEMENT SECTIONS...

FLUSH CURB N.T.S.

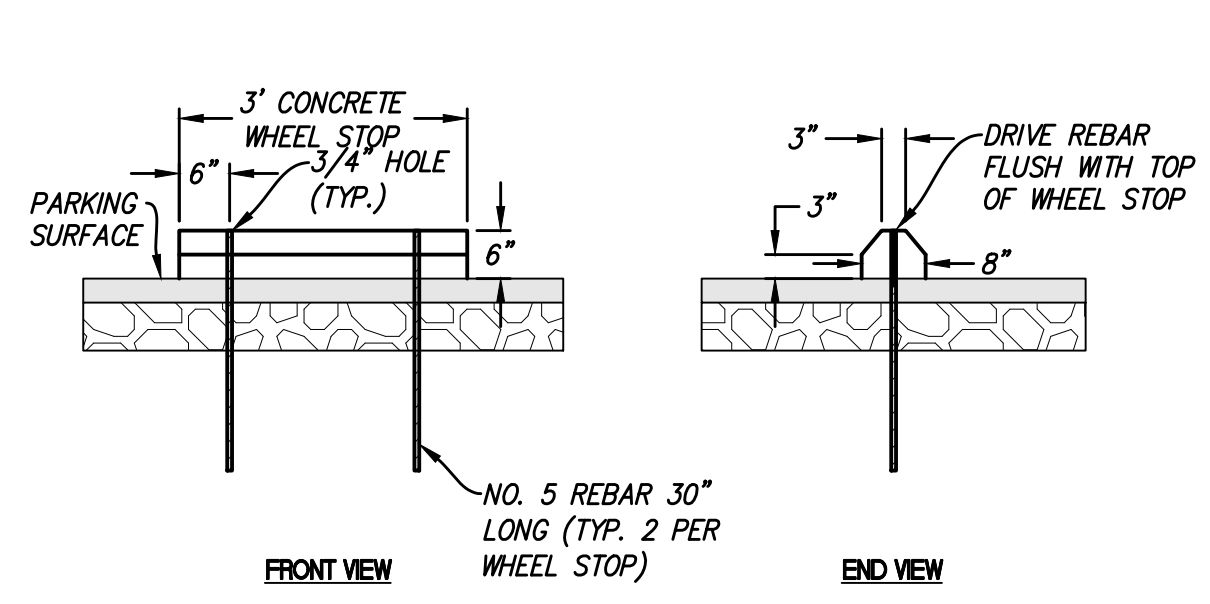


SIGN DETAIL N.T.S.



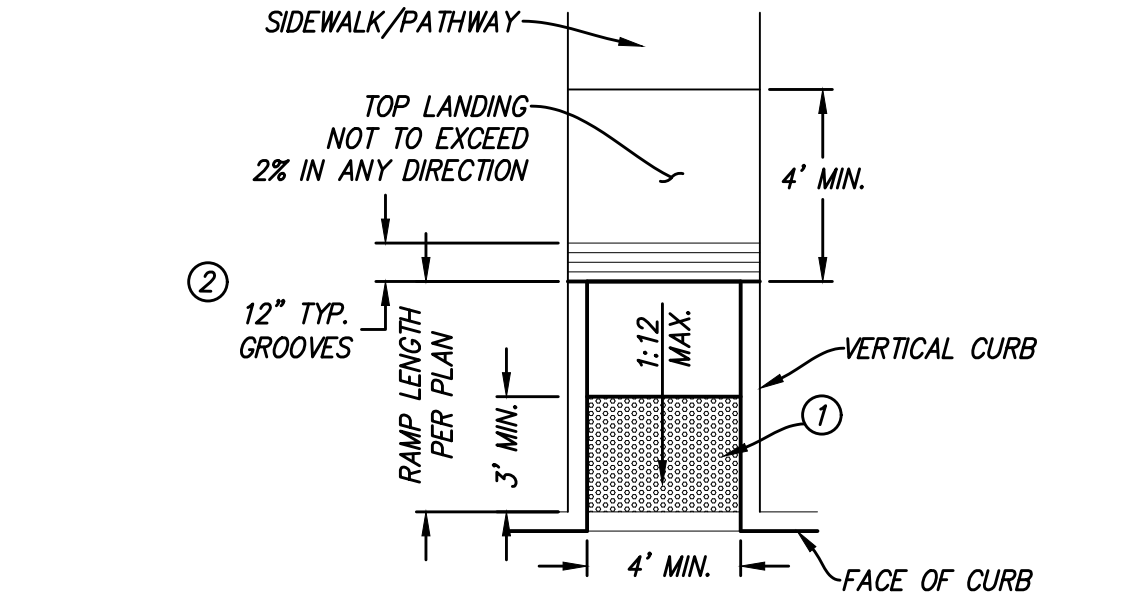
- NOTES: 1. TOW AWAY SIGN REQUIRED AT ALL ENTRANCES... 2. ADDITIONAL SIGN OR LANGUAGE ON ACCESSIBILITY SIGN SHALL READ "MINIMUM FINE \$250 PER 2016 CALIFORNIA BUILDING CODE SECTION 11B-502.6."

PARALLEL ADA STALLS 1"=10"



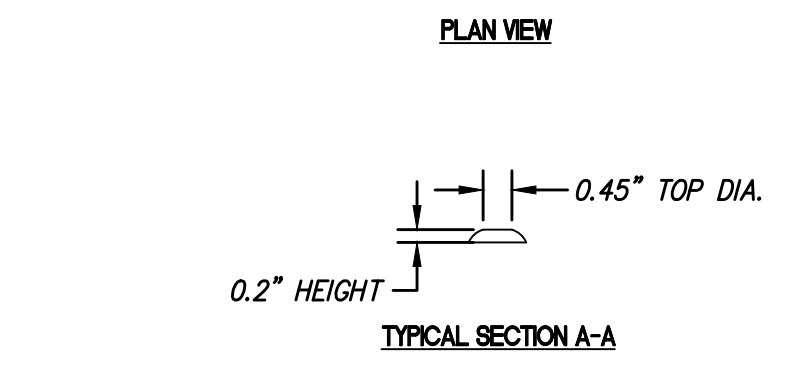
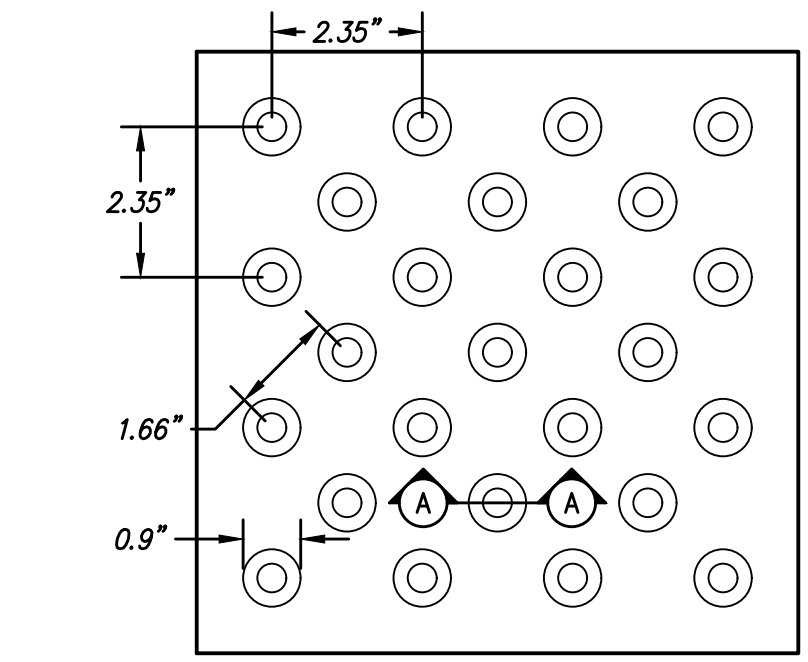
- NOTES: 1. IF PAVEMENT IS CONCRETE, PAVEMENT, OR OTHER SPECIALTY PAVING MATERIAL USE CONCRETE EPOXY TO FASTEN WHEEL STOP TO PAVEMENT IN LIEU OF REBAR.

3" WHEEL STOP 1"=2"



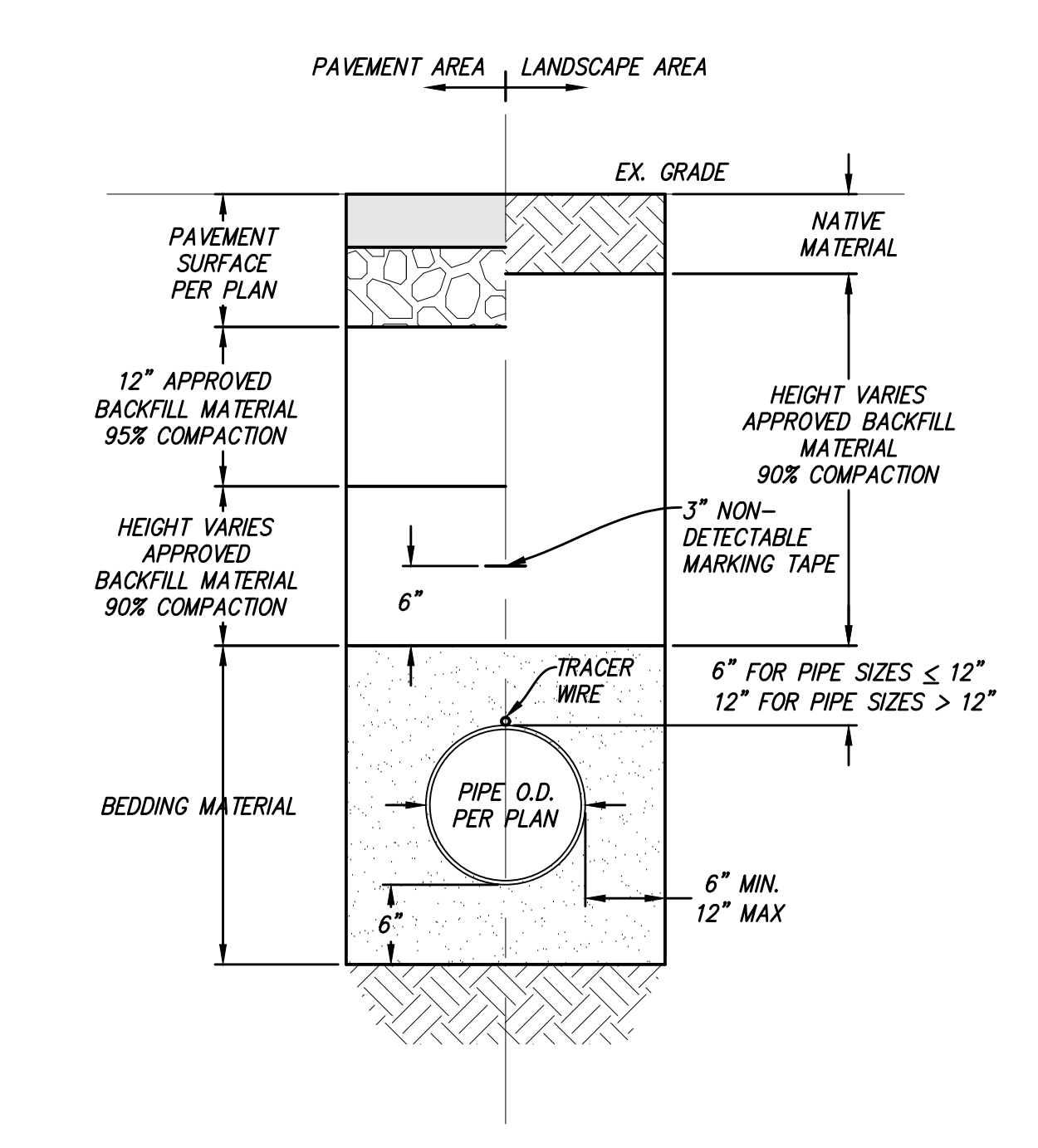
- NOTES: 1. DETECTABLE WARNING SURFACE (TRUNCATED DOMES) PER DETAIL 9 THIS SHEET... 2. GROOVES IF REQUIRED BY LOCAL AUTHORITY.

STRAIGHT ACCESSIBLE RAMP 1"=5"



- NOTES: 1. TRUNCATED DOMES MUST BE A MINIMUM OF 3" WIDE IN THE DIRECTION OF TRAVEL... 2. DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS LISTED IN THE CBC CHAPTER 11B-705.

TRUNCATED DOMES 1"=1"

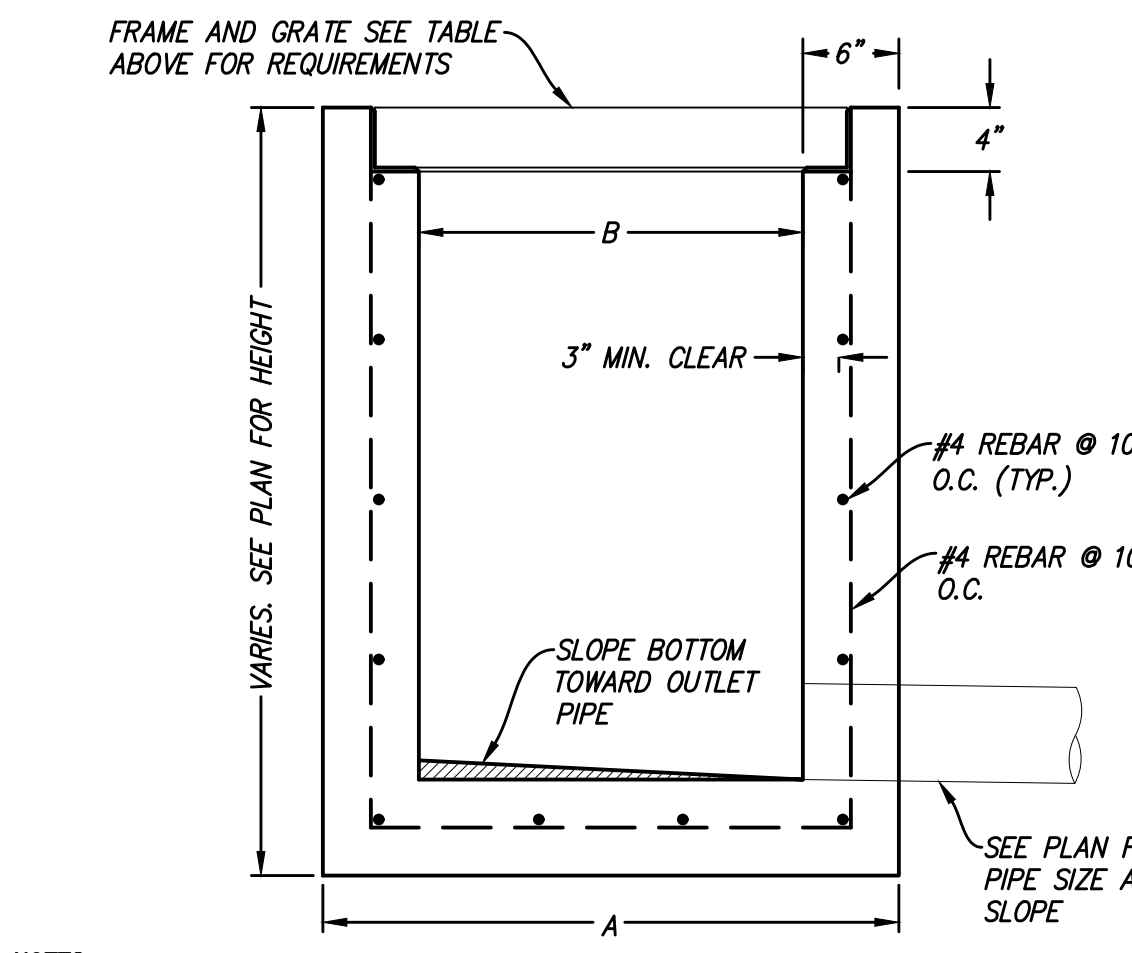


- NOTES: 1. SHORING TO BE PER CAL/OSHA CONSTRUCTION SAFETY ORDERS... 2. RESTORE ALL PAVEMENT MARKINGS IN-KIND WHERE REMOVED AS PART OF TRENCHING OPERATIONS...

UTILITY TRENCH DETAIL 1"=1"

Table with 3 columns: CATCH BASIN LOCATION, LOADING REQUIREMENTS, MIN. GRATE SPACING REQUIREMENTS. Rows include Vehicle Access Road, Pedestrian Path, and Landscape.

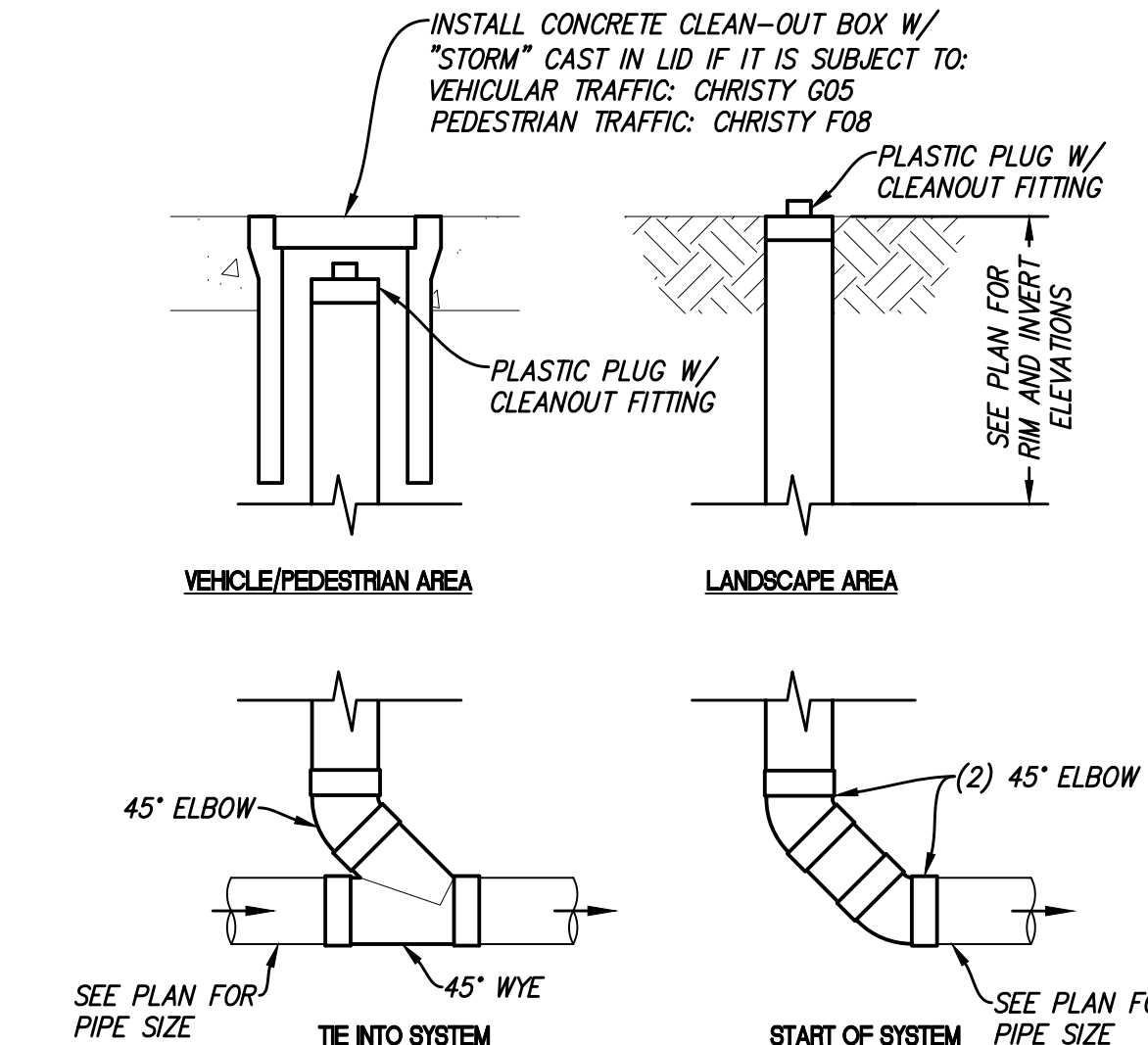
Table with 3 columns: CATCH BASIN SIZE, A, B, MAX PIPE SIZE. Rows include 12", 24", and 36" catch basin sizes.



- NOTES: 1. TAG JOINT AS REQUIRED FOR STRUCTURES OVER 4'-0" DEEP... 2. FRAME SHALL BE ANCHORED TO CONCRETE PER MANUFACTURER'S SPECIFICATIONS.

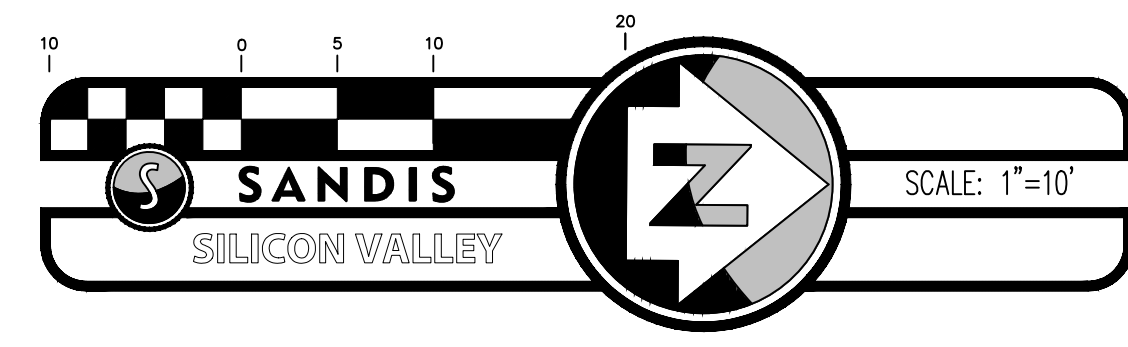
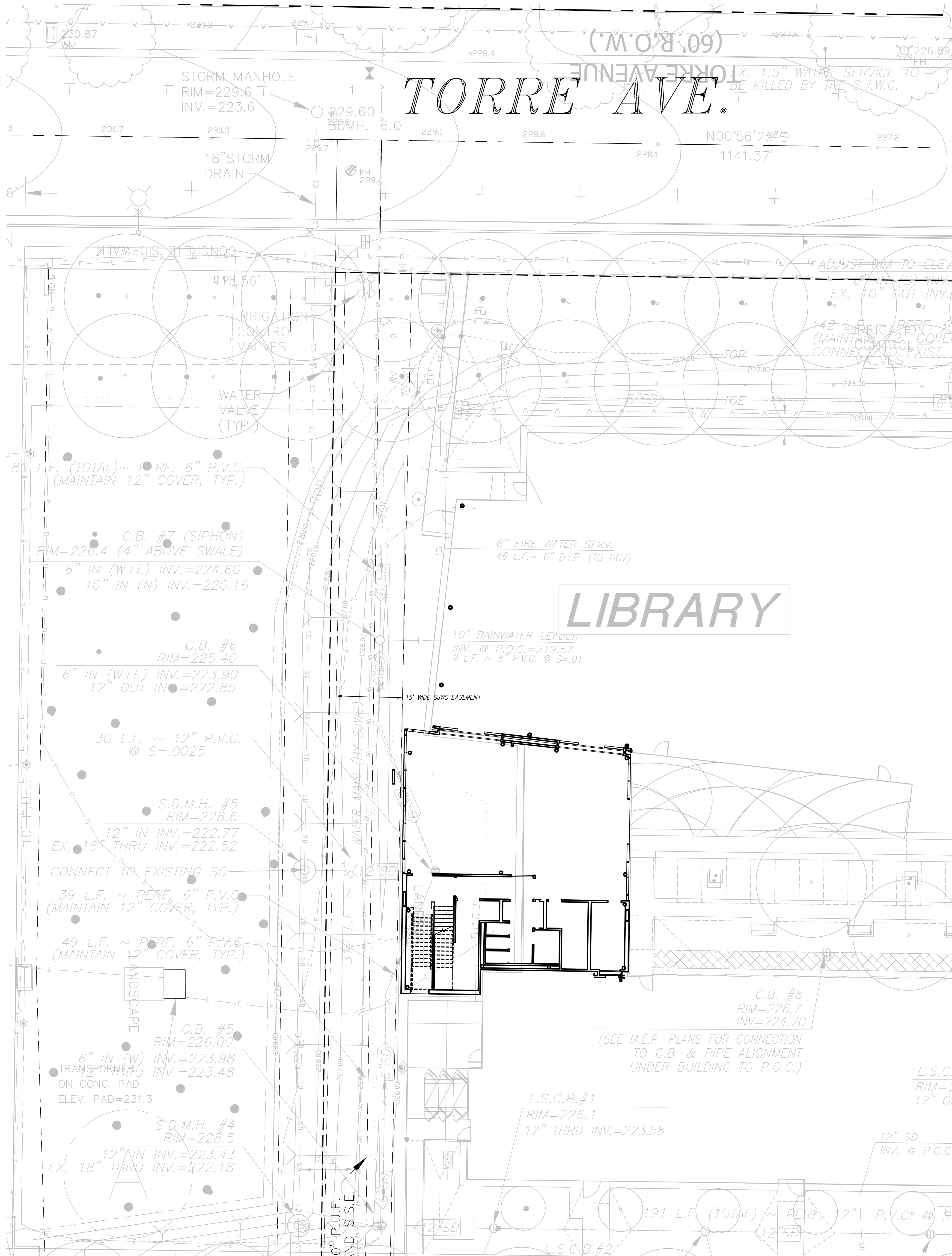
CONCRETE SQUARE CATCH BASIN 1"=1"

Table with 2 columns: PIPE SIZE, NDS NUMBER*. Rows include 3", 4", 6", and 8" pipe sizes.



- NOTES: 1. STORM DRAIN CLEAN OUT SHALL MATCH PIPE DIAMETER

STORM DRAIN CLEAN OUT 1"=1"



LEGEND

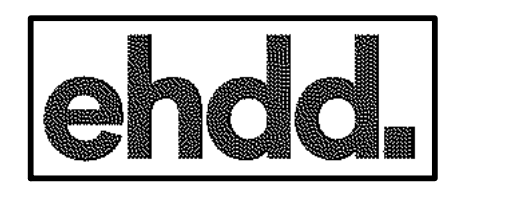
	STABILIZED EXIT
	CONCRETE WASHOUT
	SPILL KIT
	PORTABLE RESTROOM
	CONSTRUCTION TRAILER
	PATH OF SURFACE DRAINAGE
	FIBER ROLL
	SILT FENCE
	GRAVEL BAG BERM
	INLET PROTECTION
	SITE STORMWATER DISCHARGE POINT / SAMPLING LOCATION
	APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE - AREA TO COMPLY WITH REQUIREMENTS IN PROJECT SWPPP
	ROLLED EROSION CONTROL PRODUCT
	SOIL AMENDMENT AREA

WATER POLLUTION CONTROL NOTES:

- THIS PLAN IS FOR STORMWATER POLLUTION CONTROL DURING CONSTRUCTION IF NO SWPPP IS REQUIRED. IF A SWPPP FOR THE PROJECT HAS BEEN ISSUED THE PROJECT SWPPP OVERRIDES ANYTHING SHOWN ON THIS PLAN.
- TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
- THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
- EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
- GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
- CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
- ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED IN PROJECT SWPPP.
- CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
- CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW MATS, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
- STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WITH SITE OSP.
- ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE. ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
- STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

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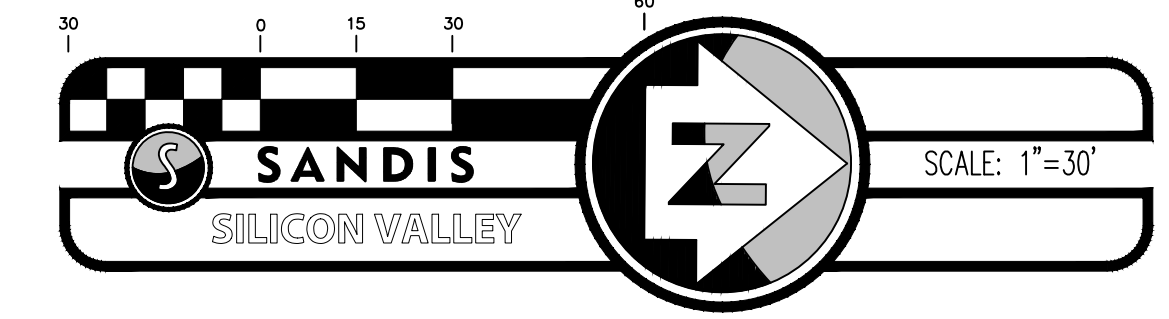
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20013

Sheet Title
EROSION CONTROL PLAN

Sheet Number
C-8.0



LEGEND

- PROPOSED FIRE HYDRANT
BACKFLOW PREVENTER
EXISTING FIRE HYDRANT TO REMAIN
PIV
PROPOSED FIRE DEPARTMENT CONNECTION
PROPOSED POST INDICATOR VALVE
FIRE ACCESS ROUTE

FIRE FLOW REQUIREMENTS

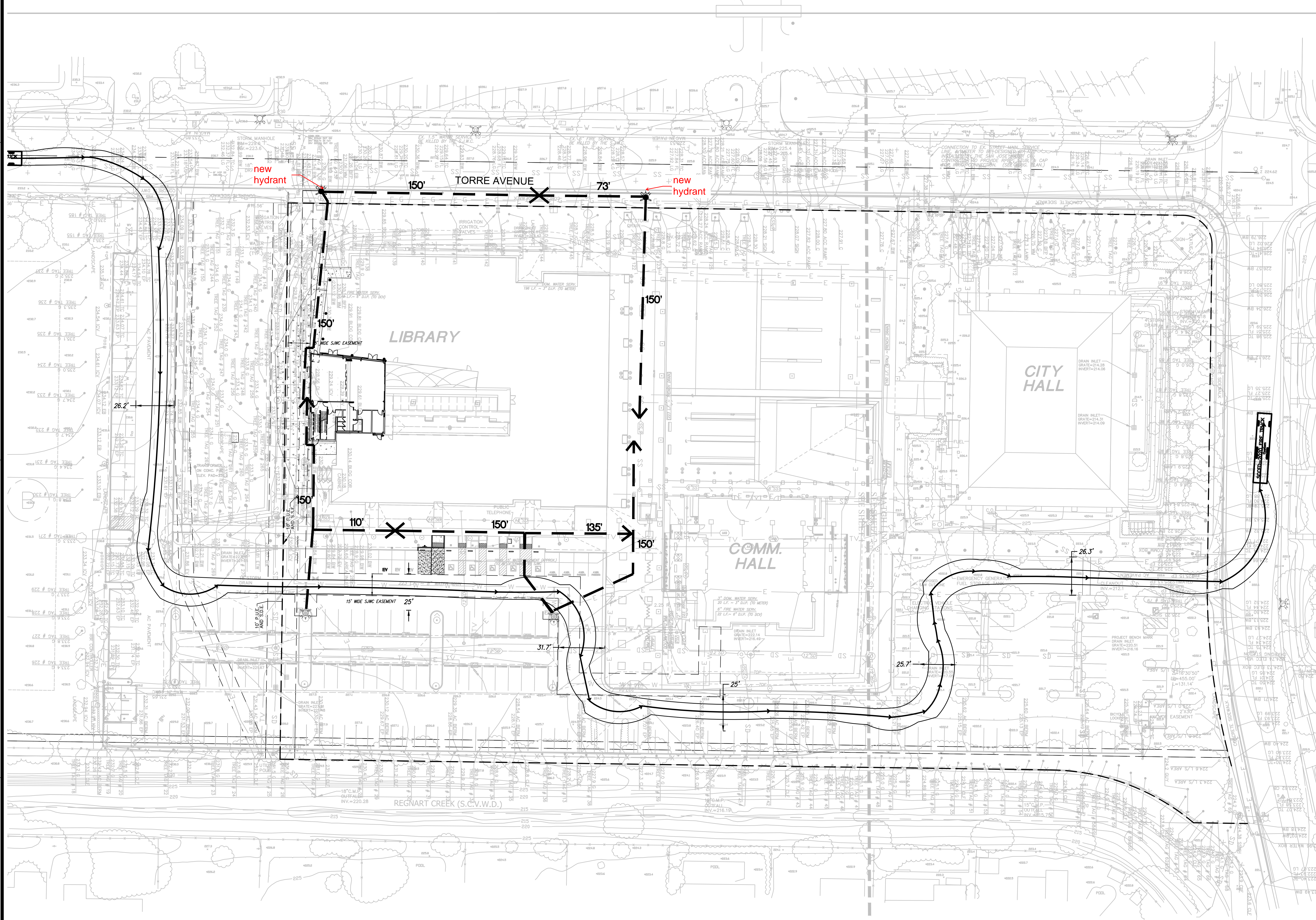
Table with 2 columns: Requirement and Value. Includes rows for Building Type (LIBRARY), Gross Building Floor Area (58,716 SF), Fully Sprinklered (YES), Allowed Fire Flow Reduction (75%), Required Fire Flow (3500 GPM), Required Fire Flow Duration (1,500 MIN), Required Number of Hydrants (1), and Average Hydrant Spacing (500 FT).

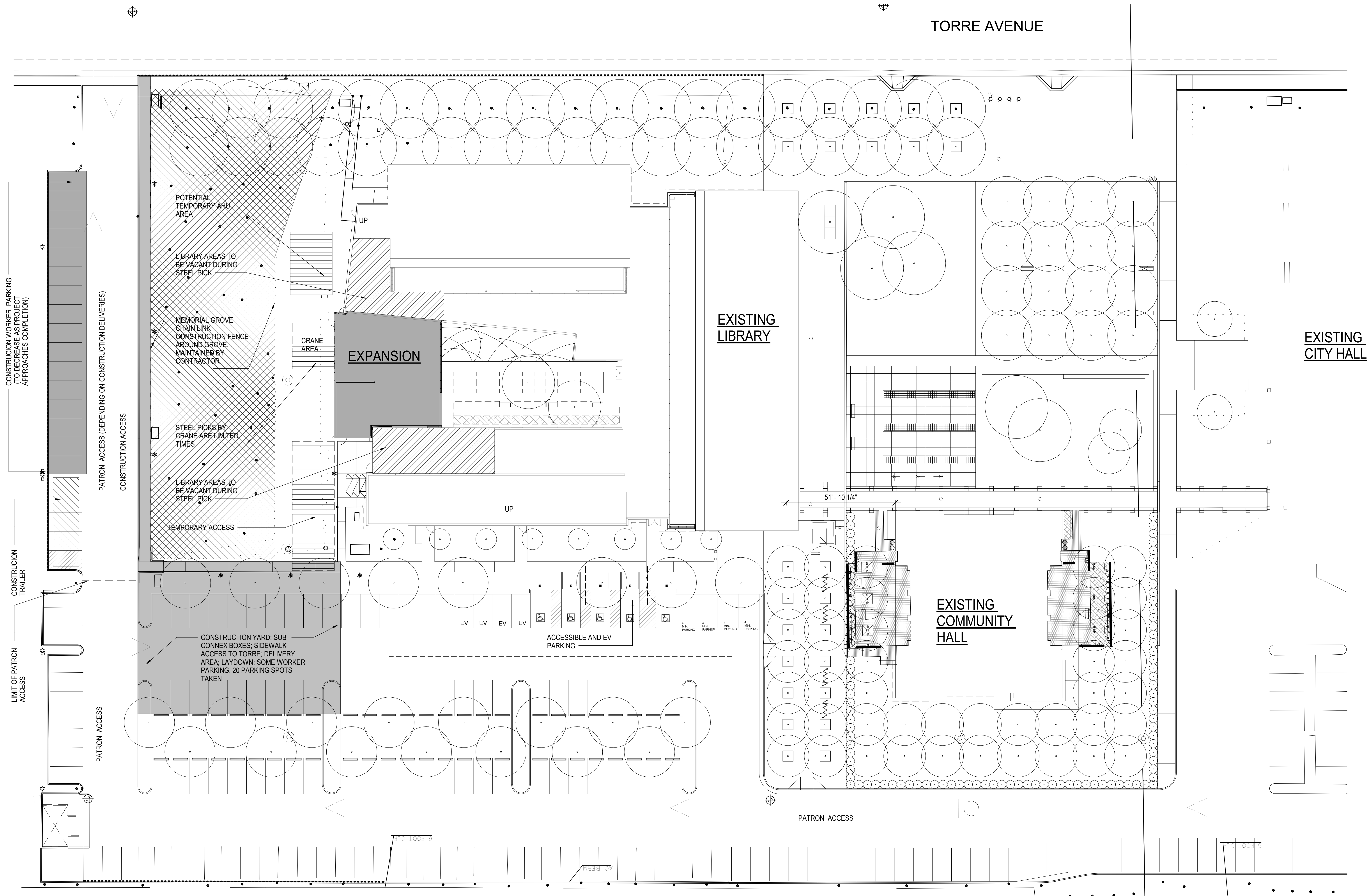
NOTES:

- VALUES LISTED PER 2016 CALIFORNIA FIRE CODE APPENDIX B AND C.

FIRE PROTECTION NOTES

- 1. FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO BUILDING CONSTRUCTION, OR TEMPORARY FIRE ACCESS AND WATER PROVIDED DURING CONSTRUCTION PER THE APPROVED FIRE AGENCY'S REQUIREMENTS. CONTRACTOR TO SUBMIT A CONSTRUCTION LOGISTICS PLAN TO BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO STARTING WORK.
2. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
3. PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE SANTA CLARA COUNTY FIRE DEPARTMENT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2016.





1 SITE PLAN Construction Logistics A0.12 SCALE: 1" = 20'-0"

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BRIDGING DOCUMENTS 100% SD	06.01.2020

Revisions and Description

Revisions and Description	Date

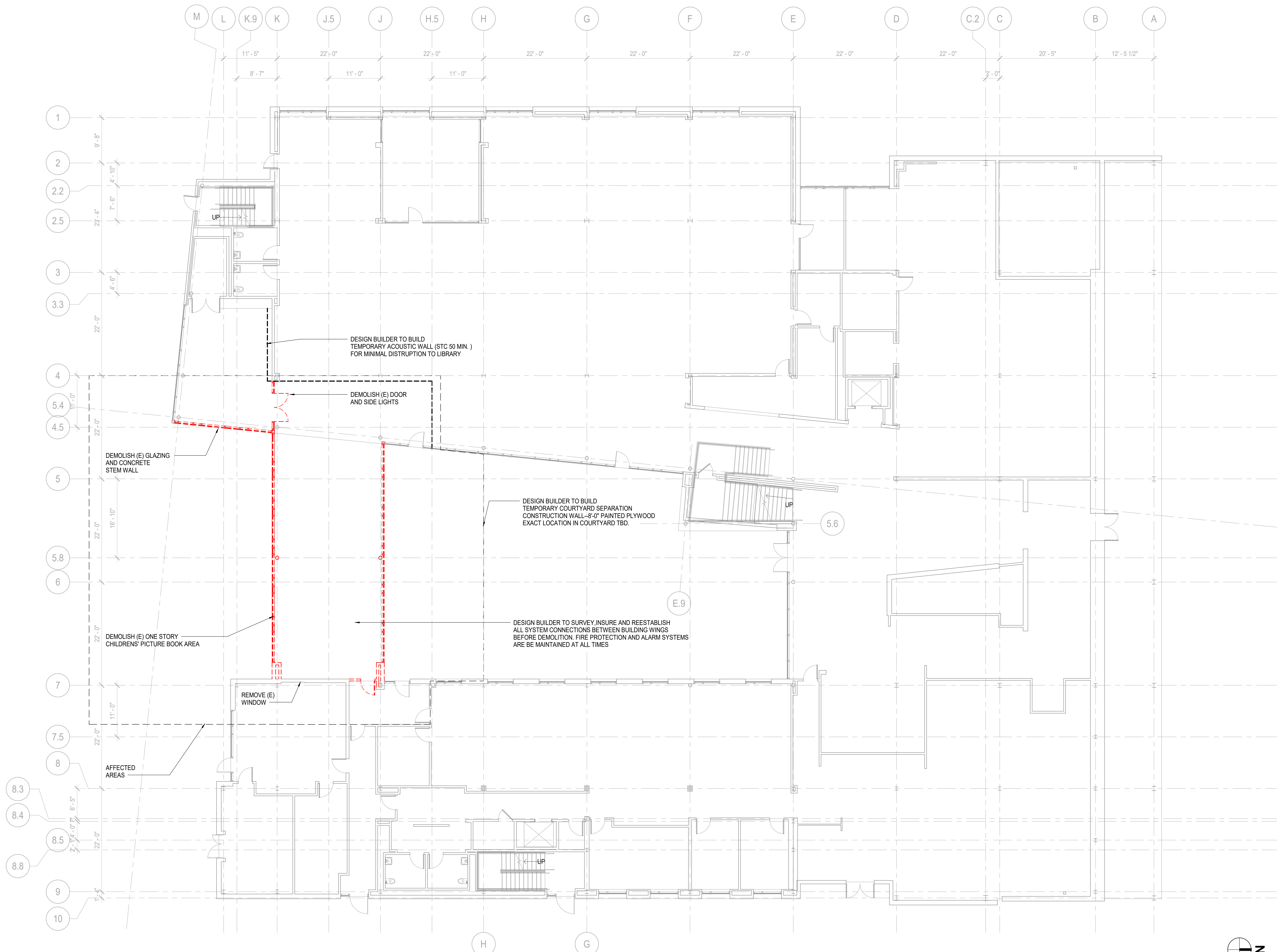
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Drawn by
Author
EHDD Job Number
20013

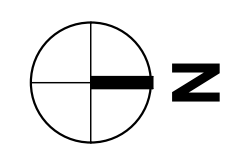
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**LEVEL 1 -
DEMOLITION PLAN**

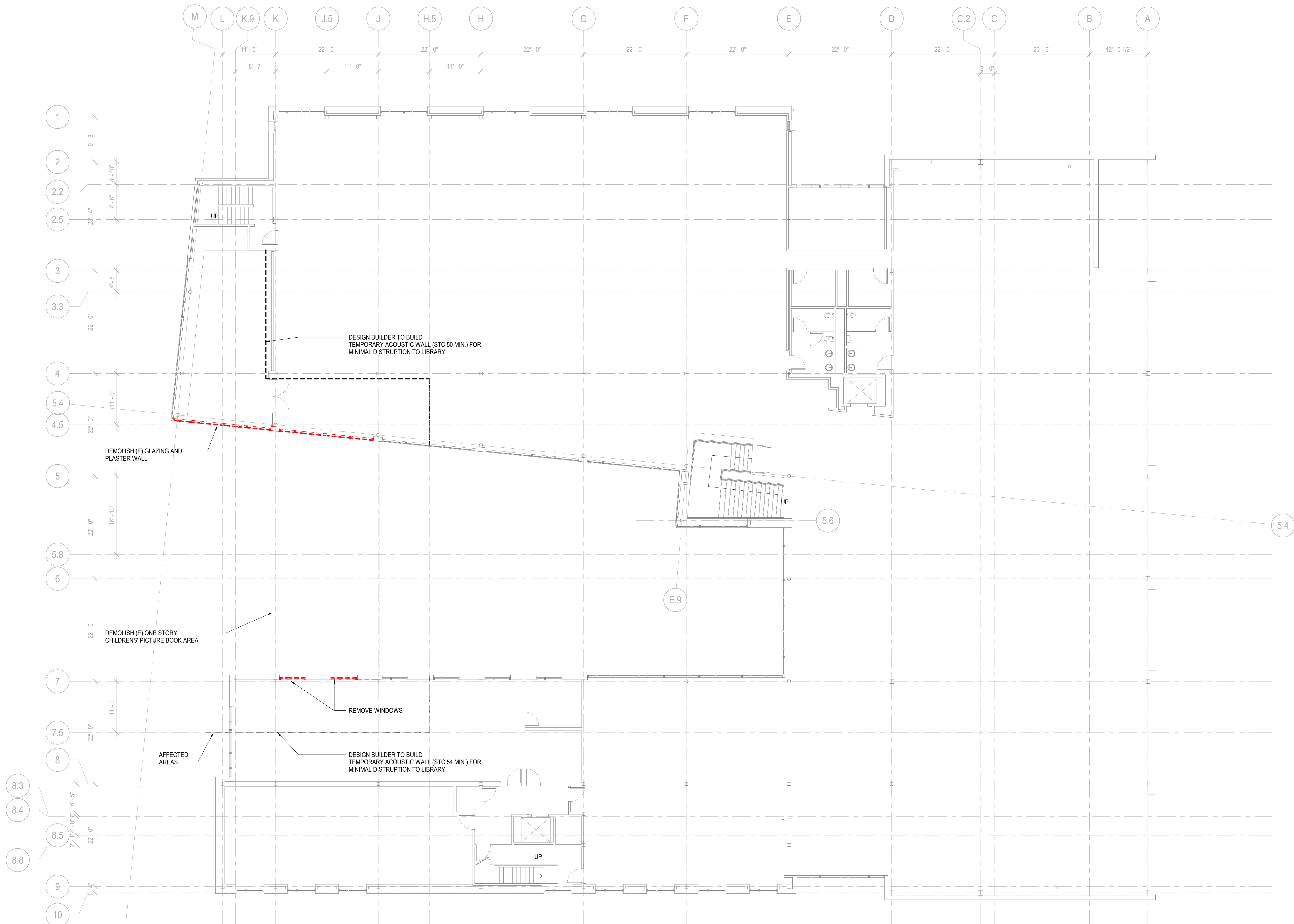
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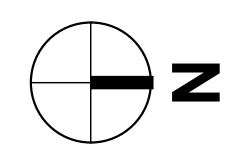


1 LEVEL 1 - DEMO PLAN
A1.01 SCALE: 1/8" = 1'-0"





1 LEVEL 2 - DEMO PLAN SCALE: 1/8" = 1'-0"





FLOOR PLAN NOTES

1. REFER TO SHEET G3.01 FOR ACCESSIBLE MOUNTING HEIGHTS AND DIAGRAMS.
2. REFER TO SPECIFICATIONS FOR STAIR AND RAILING TYPES.
3. ALL DOORS INTO PROGRAM ROOMS TO HAVE SOUND GASKETS SEE SHEET A9.01.
4. REFER TO ACOUSTICAL NARRATIVE FOR MORE INFORMATION.
5. REFER TO SHEET A9.01 FOR TYPICAL ACOUSTIC INTERIOR DETAILS.

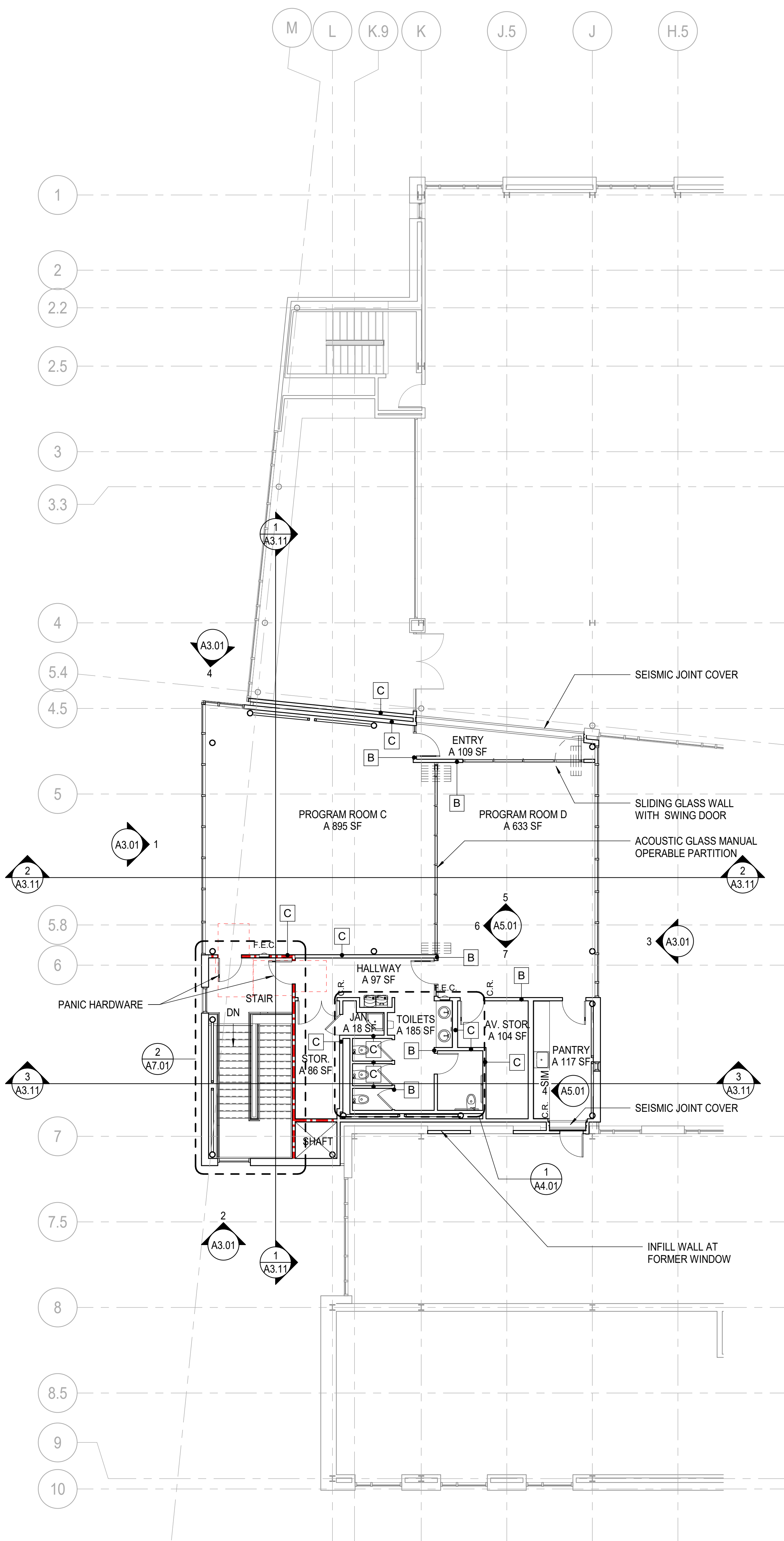
FLOOR PLAN LEGEND

- EXISTING TO REMAIN
- NEW PARTITION AND DOOR
- 1-HR FIRE BARRIER
- SHAFT OR OPENING IN FLOOR SLAB
- F.E.C. RECESSED FIRE EXTINGUISHER CABINET
- C.R. CARD READER ACCESS
- WALL TYPE TAG

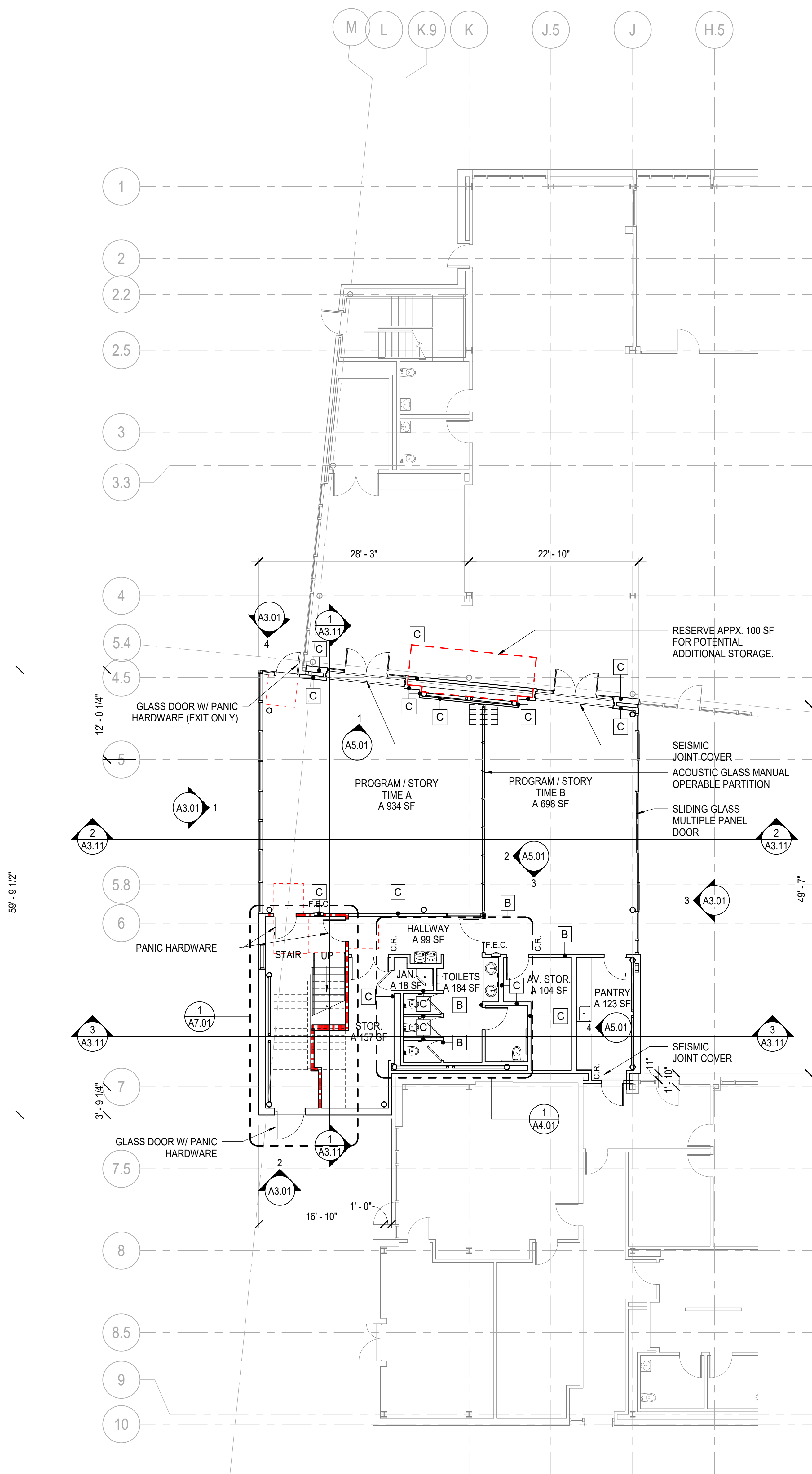
WALL TYPES SCHEDULE

REFER TO SHEET A9.01 FOR WALL TYPE DETAILS.

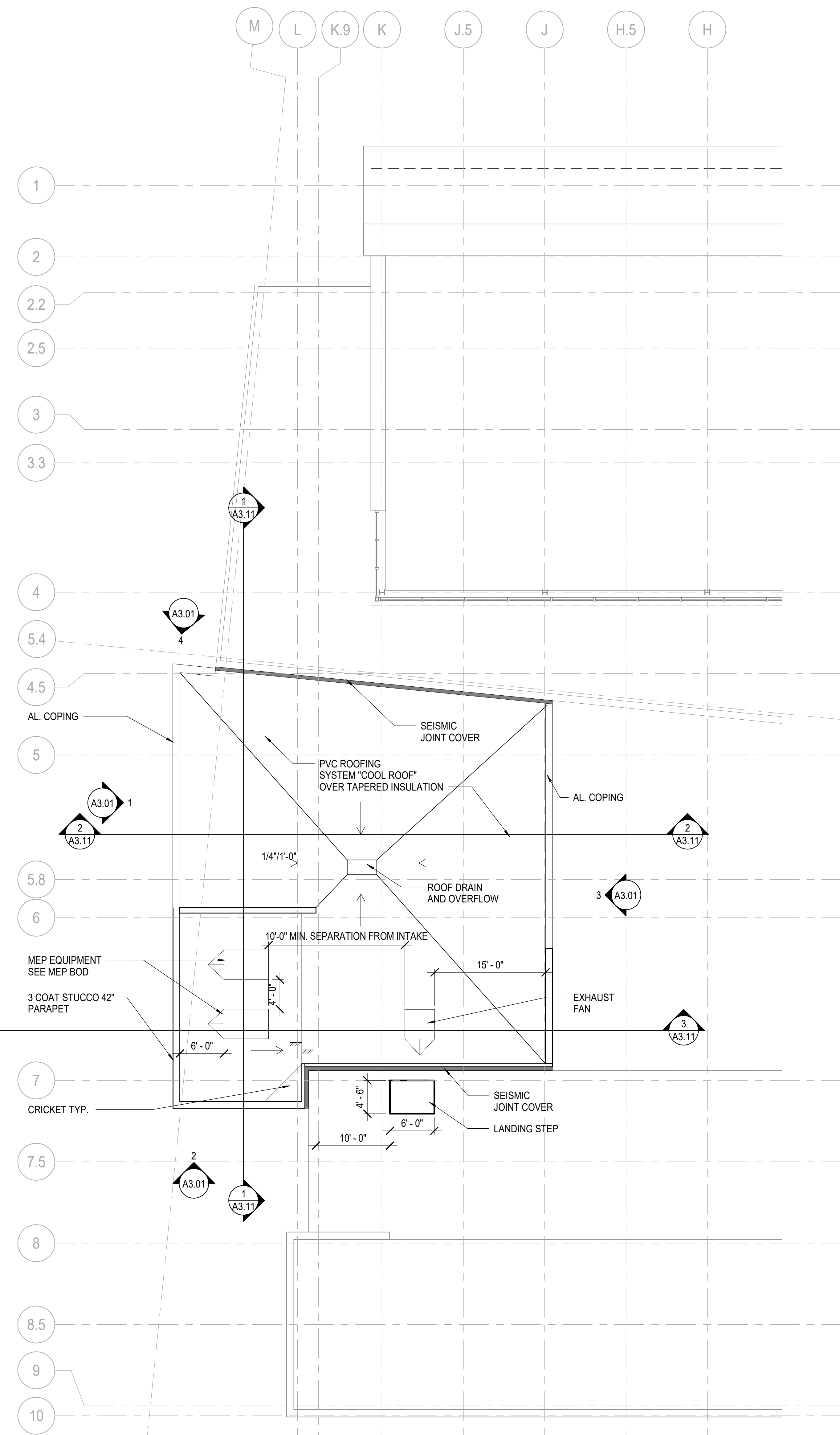
- FULL HEIGHT 42 STC
- FULL HEIGHT 47 STC



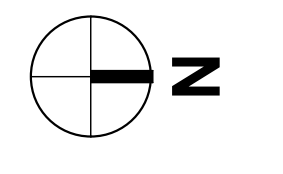
2 LEVEL 2 SCALE: 1/8" = 1'-0"

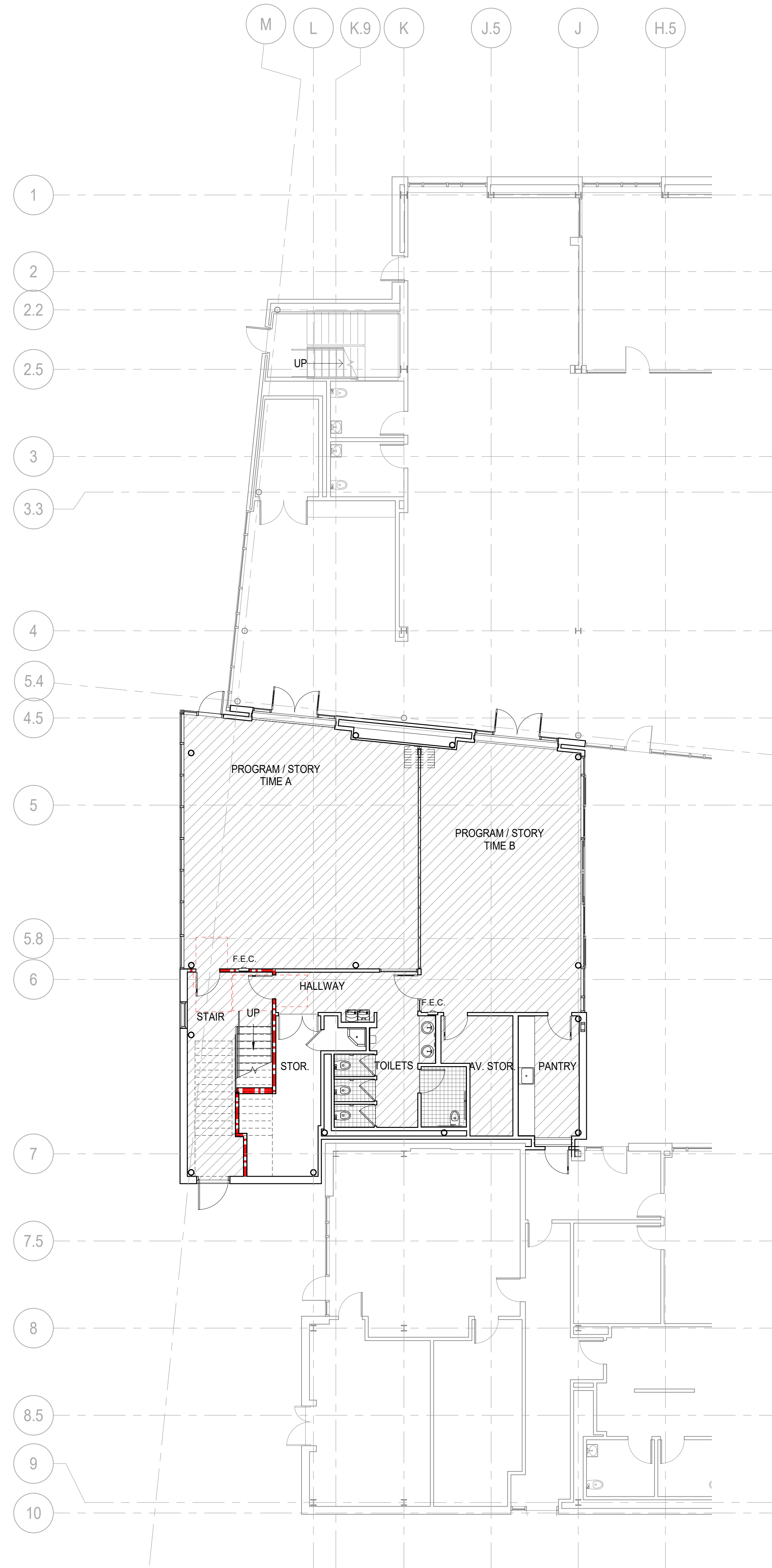
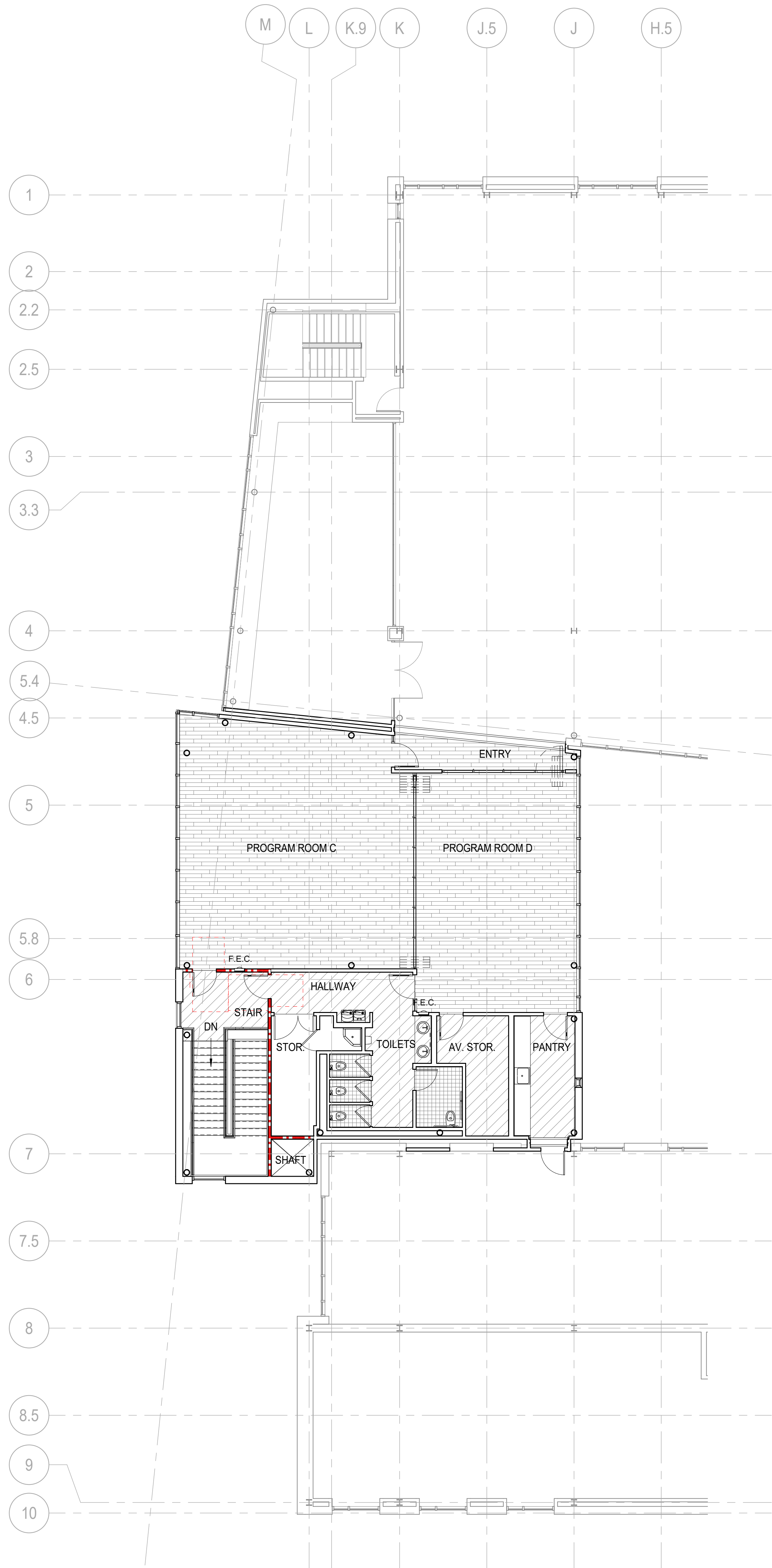


1 LEVEL 1 SCALE: 1/8" = 1'-0"



1 LEVEL ROOF
A2.12 SCALE: 1/8" = 1'-0"





FINISH PLAN NOTES

1. REFER TO SPECIFICATIONS FOR FINISH MATERIAL INFORMATION
2. REFER TO SHEET A6.01 FOR CEILING FINISHES
3. WHITE WALL PAINT, TYPICAL
4. GREY WALL BASE, TYPICAL
5. ALL EXPOSED STEEL TO BE PAINTED TO MATCH EXISTING BUILDING EXPOSED STRUCTURE
6. REFER TO INTERIOR ELEVATIONS A5.01 FOR MORE INFORMATION

FINISH PLAN LEGEND

- SHEET RUBBER FLOORING
- CARPET TILE
- 6" X 6" PORCELAIN TILE
- SEALED CONCRETE

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LEVEL 1 & 2 -
FINISH PLAN

Sheet Number

A2.21



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COST MODEL DRAWINGS	05.04.2020
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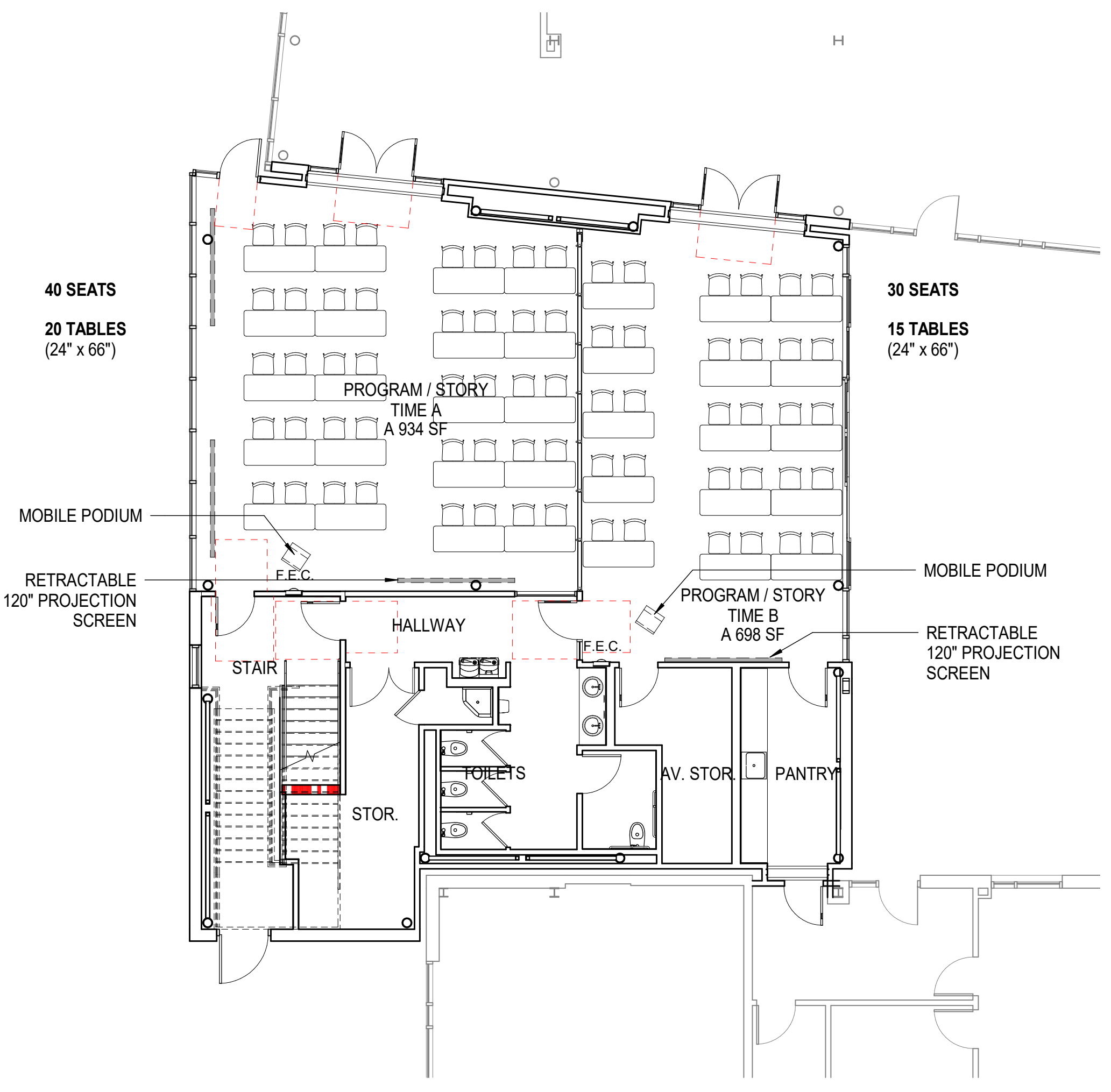
Revisions and Description	Date

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Drawn by
Author
EHDD Job Number
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Sheet Title
**LEVEL 1 -
FURNITURE PLANS**

Sheet Number

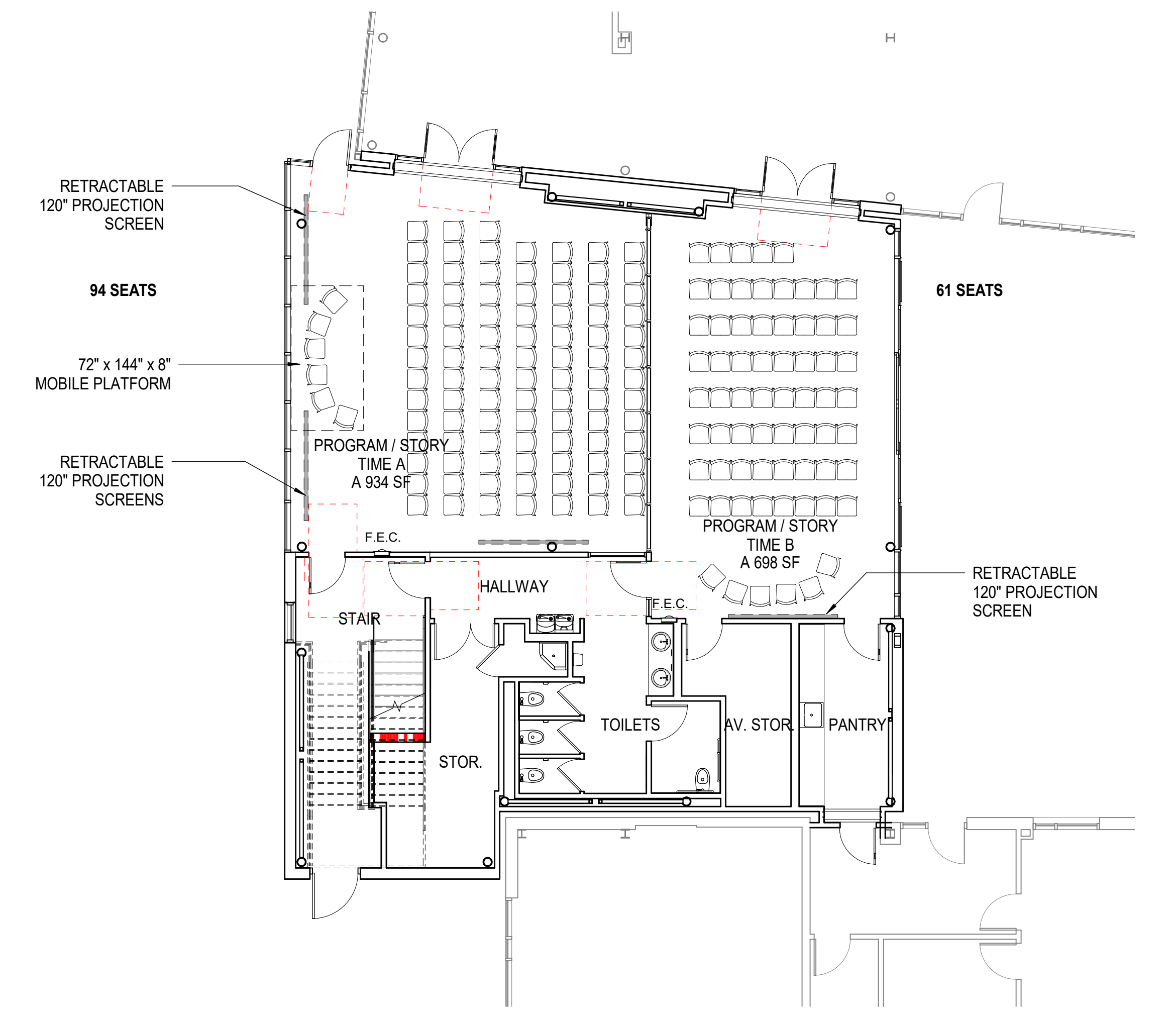
A2.41



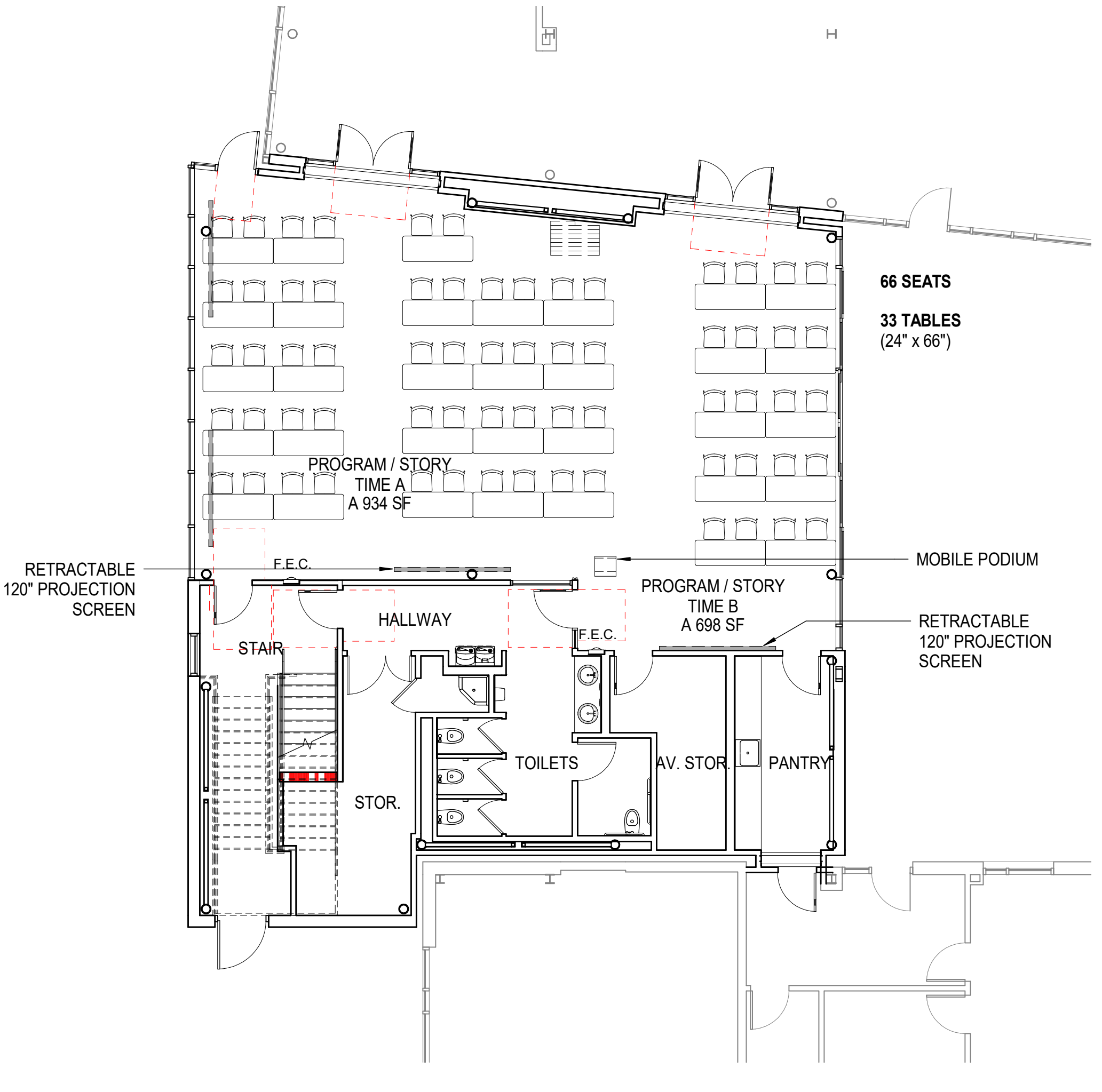
6 LEVEL 1 - CLOSED CLASSROOM SEATING
A2.41 SCALE: 1/8" = 1'-0"



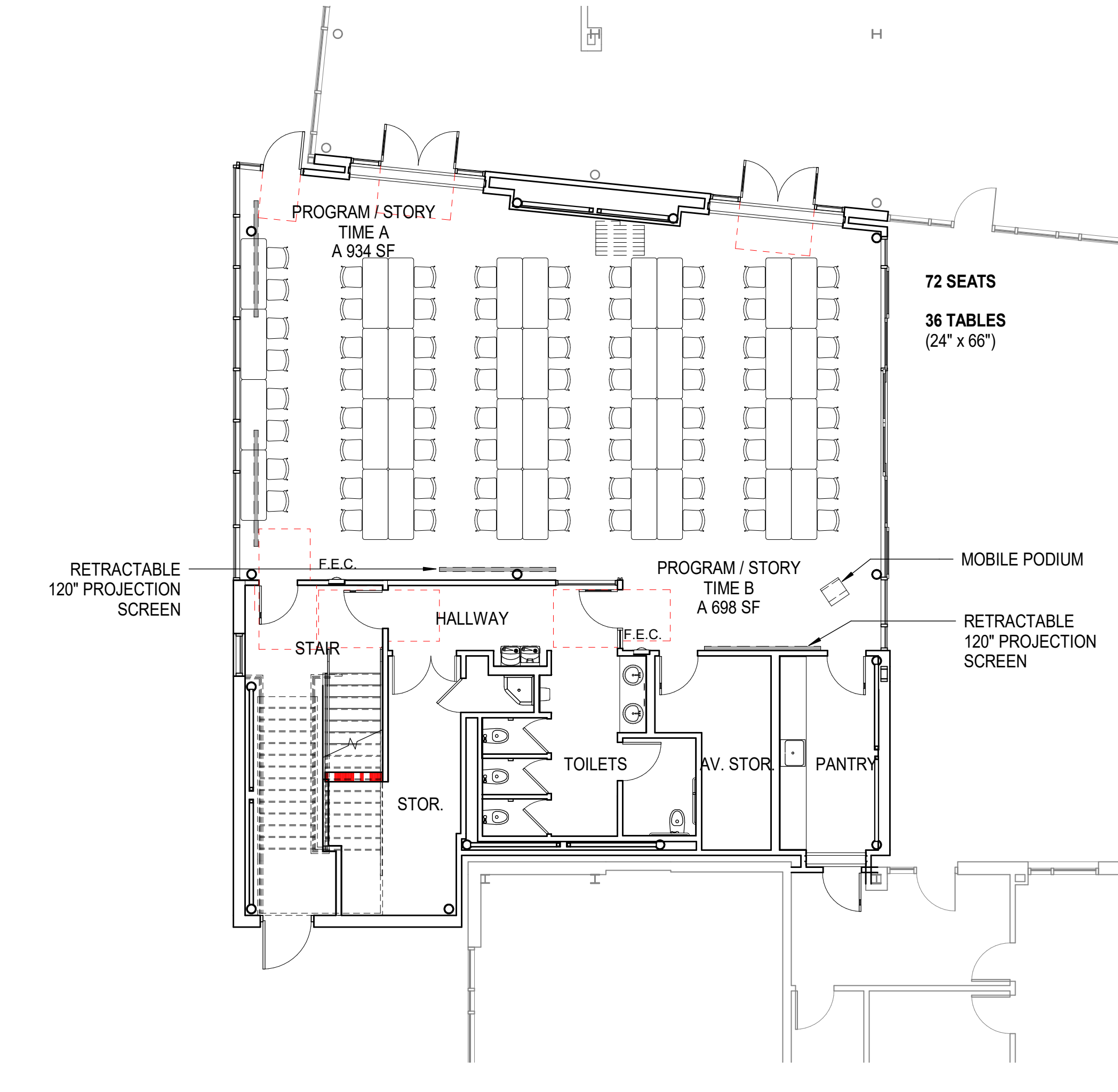
5 LEVEL 1 - CLOSED COMMUNAL SEATING
A2.41 SCALE: 1/8" = 1'-0"



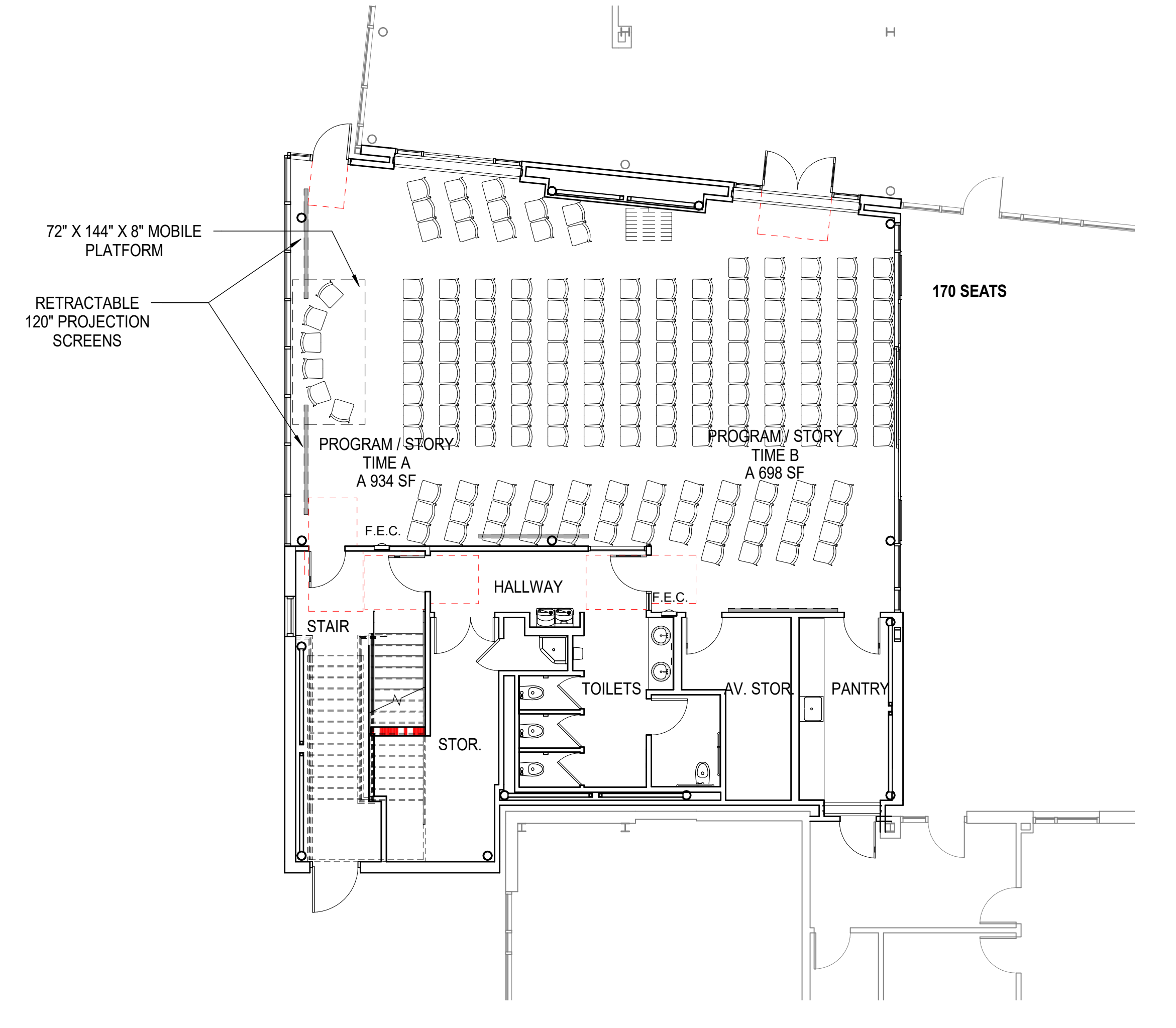
4 LEVEL 1 - CLOSED AUDIENCE SEATING
A2.41 SCALE: 1/8" = 1'-0"



3 LEVEL 1 - OPEN CLASSROOM SEATING
A2.41 SCALE: 1/8" = 1'-0"



2 LEVEL 1 - OPEN COMMUNAL SEATING
A2.41 SCALE: 1/8" = 1'-0"



1 LEVEL 1 - OPEN AUDIENCE SEATING
A2.41 SCALE: 1/8" = 1'-0"

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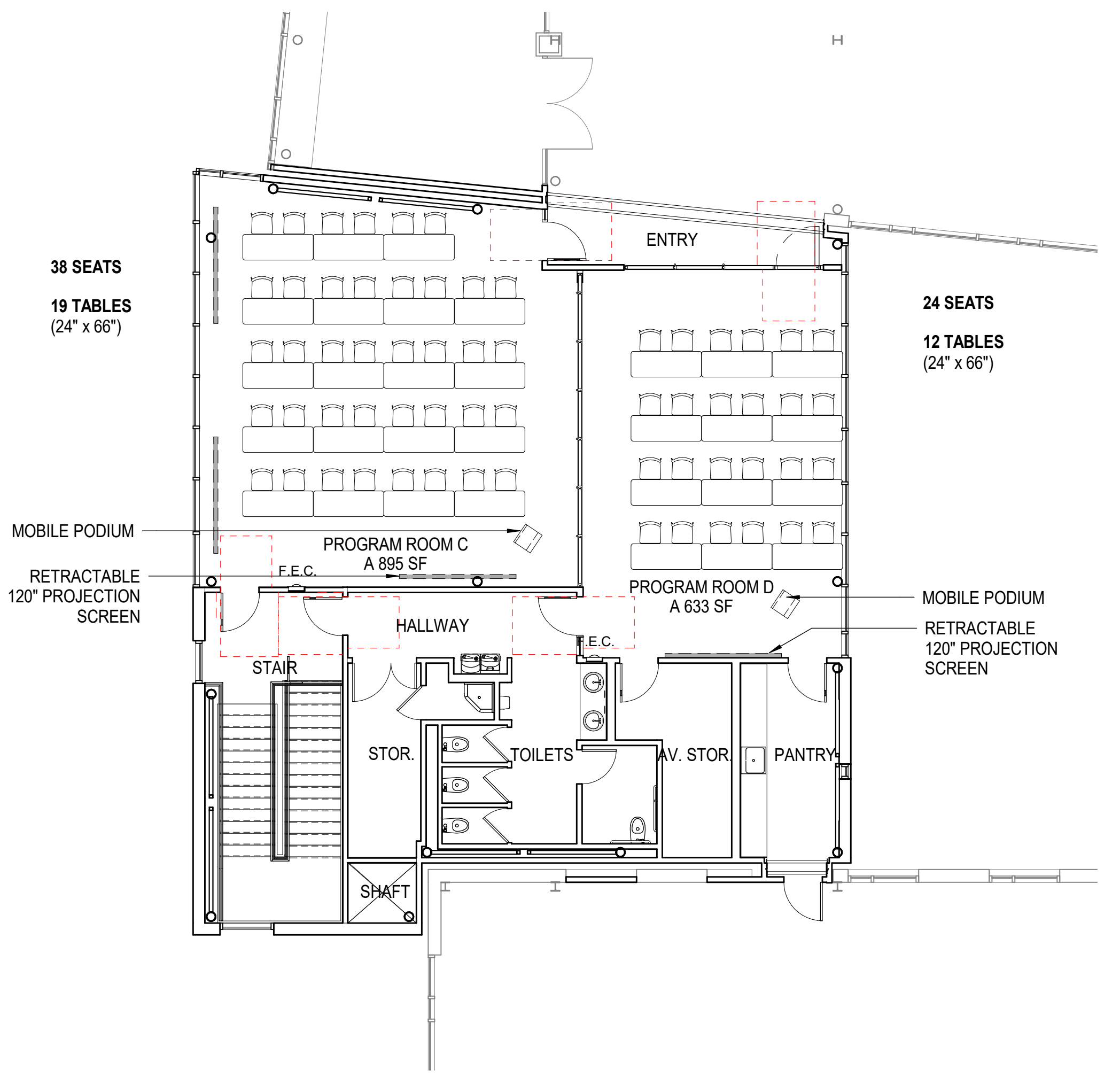
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Drawn by

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Sheet Title
**LEVEL 2 -
FURNITURE PLANS**

Sheet Number

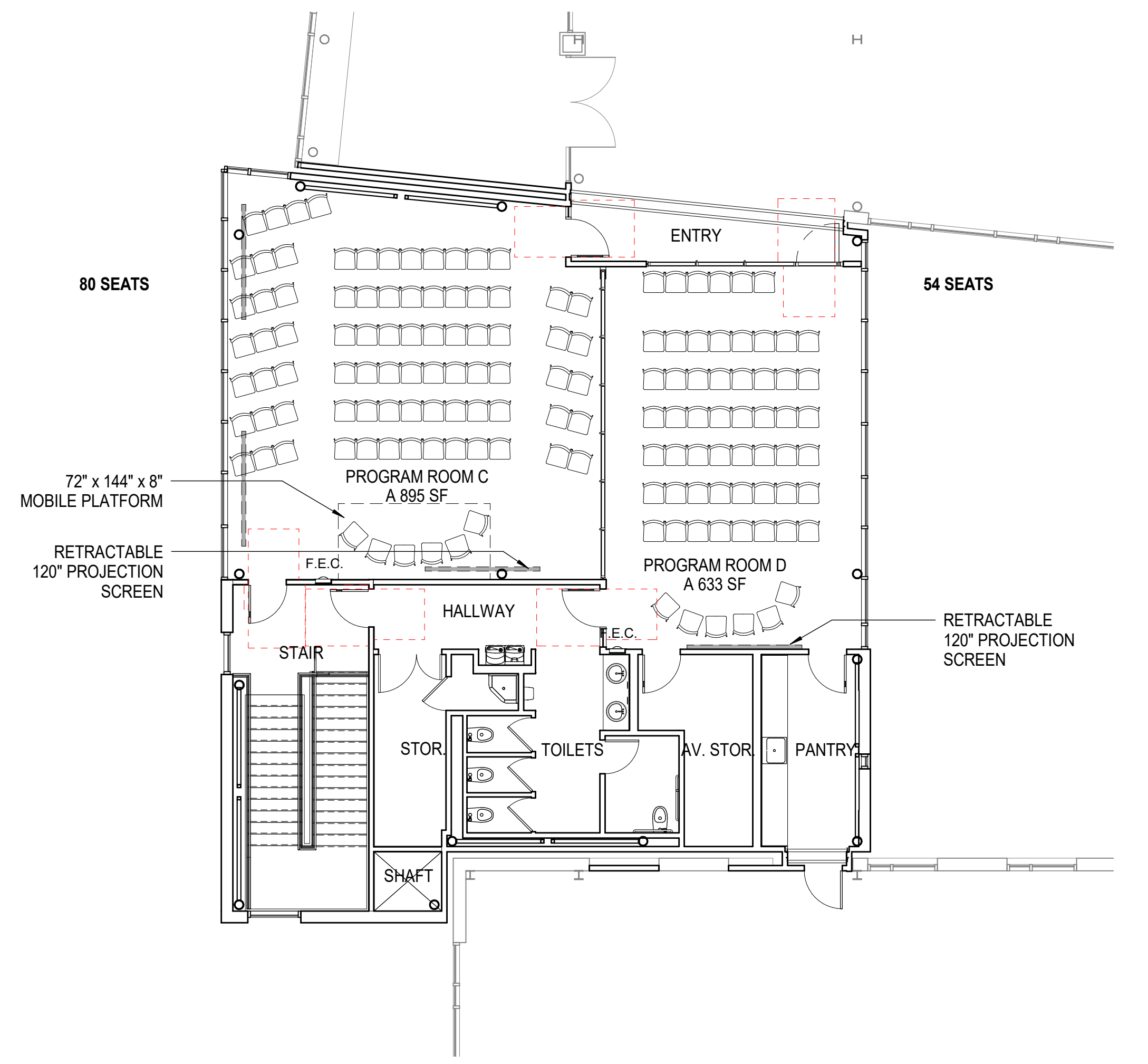
A2.42



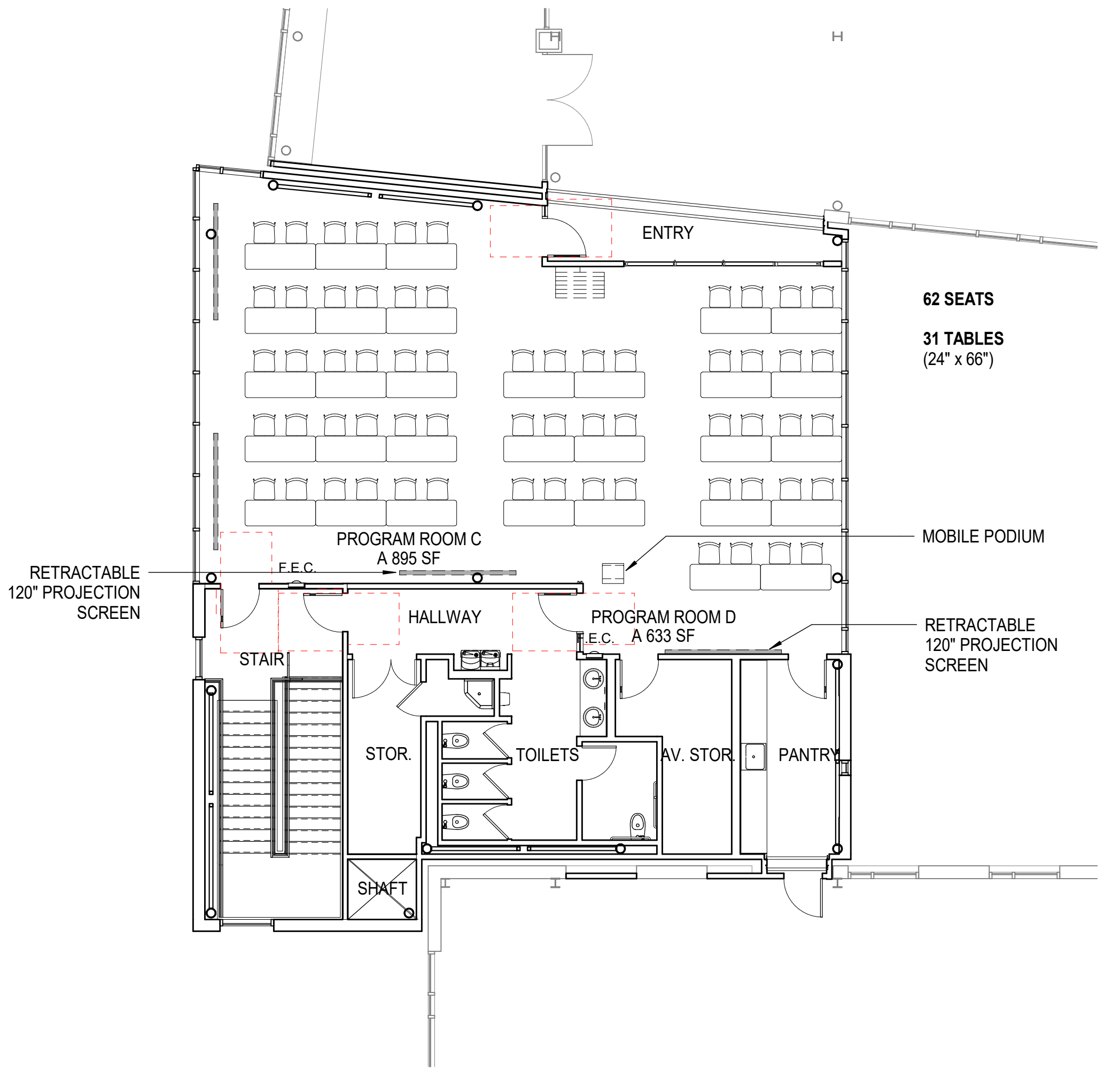
6 LEVEL 2 - CLOSED CLASSROOM SEATING
A2.42 SCALE: 1/8" = 1'-0"



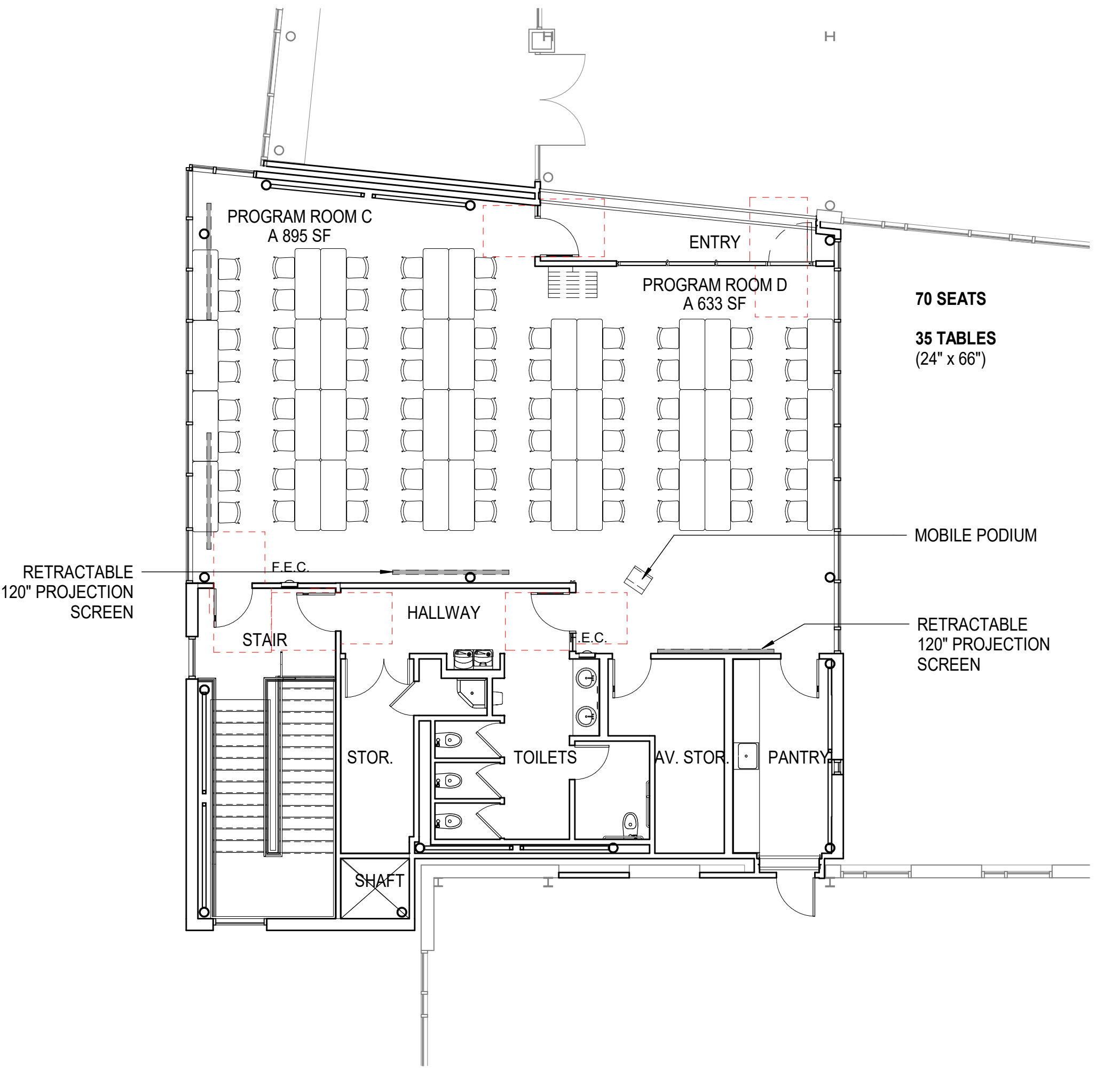
5 LEVEL 2 - CLOSED COMMUNAL SEATING
A2.42 SCALE: 1/8" = 1'-0"



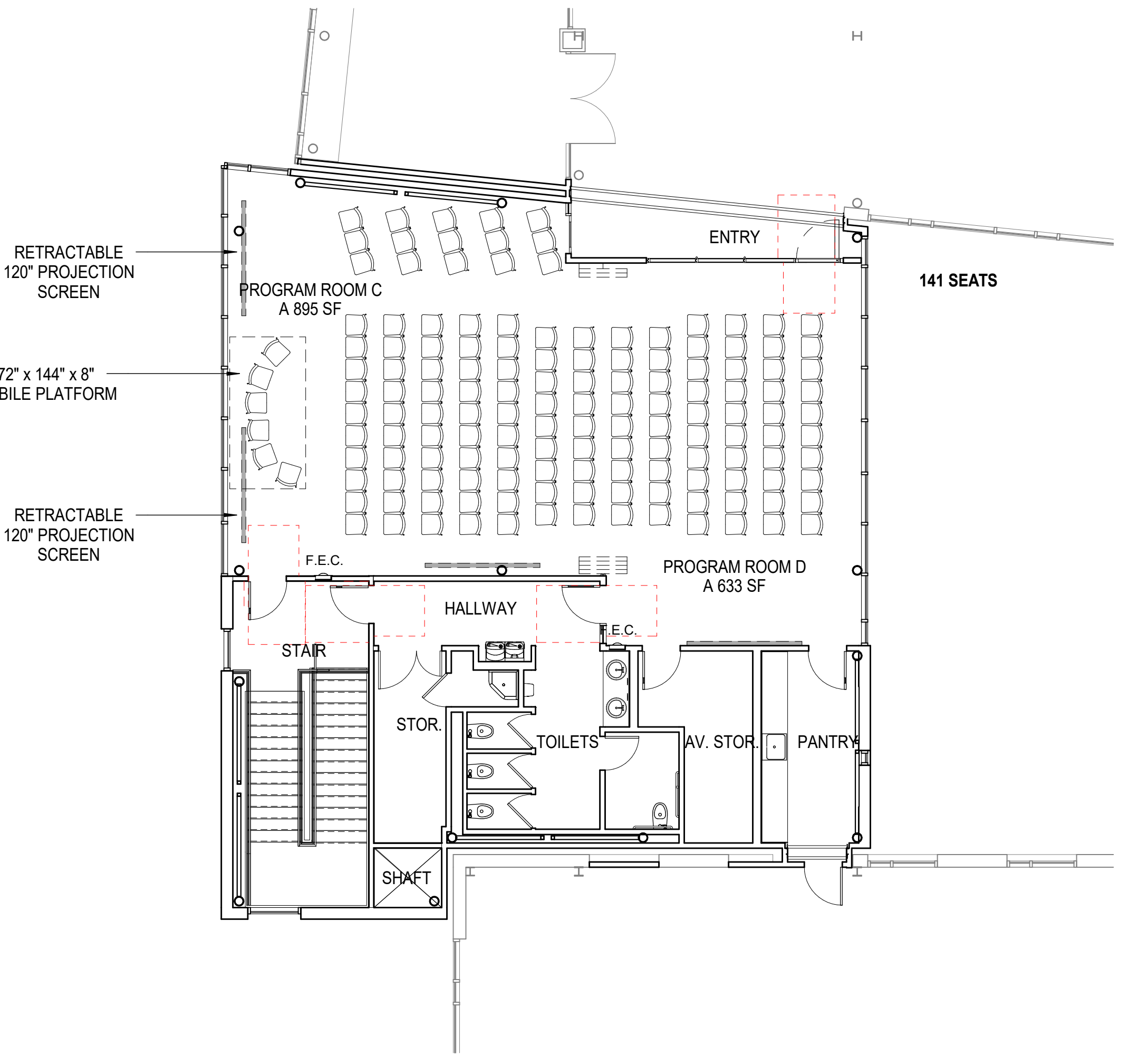
4 LEVEL 2 - CLOSED AUDIENCE SEATING
A2.42 SCALE: 1/8" = 1'-0"



3 LEVEL 2 - OPEN CLASSROOM SEATING
A2.42 SCALE: 1/8" = 1'-0"



2 LEVEL 2 - OPEN COMMUNAL SEATING
A2.42 SCALE: 1/8" = 1'-0"



1 LEVEL 2 - OPEN AUDIENCE SEATING
A2.42 SCALE: 1/8" = 1'-0"

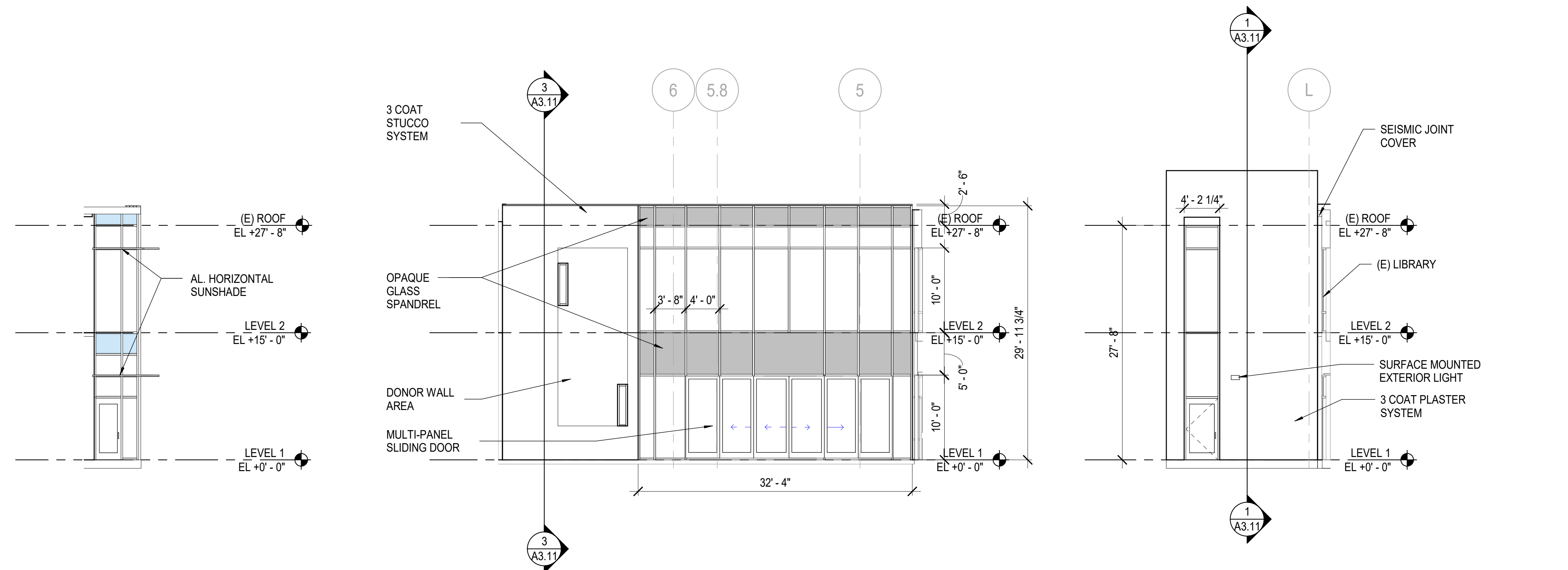
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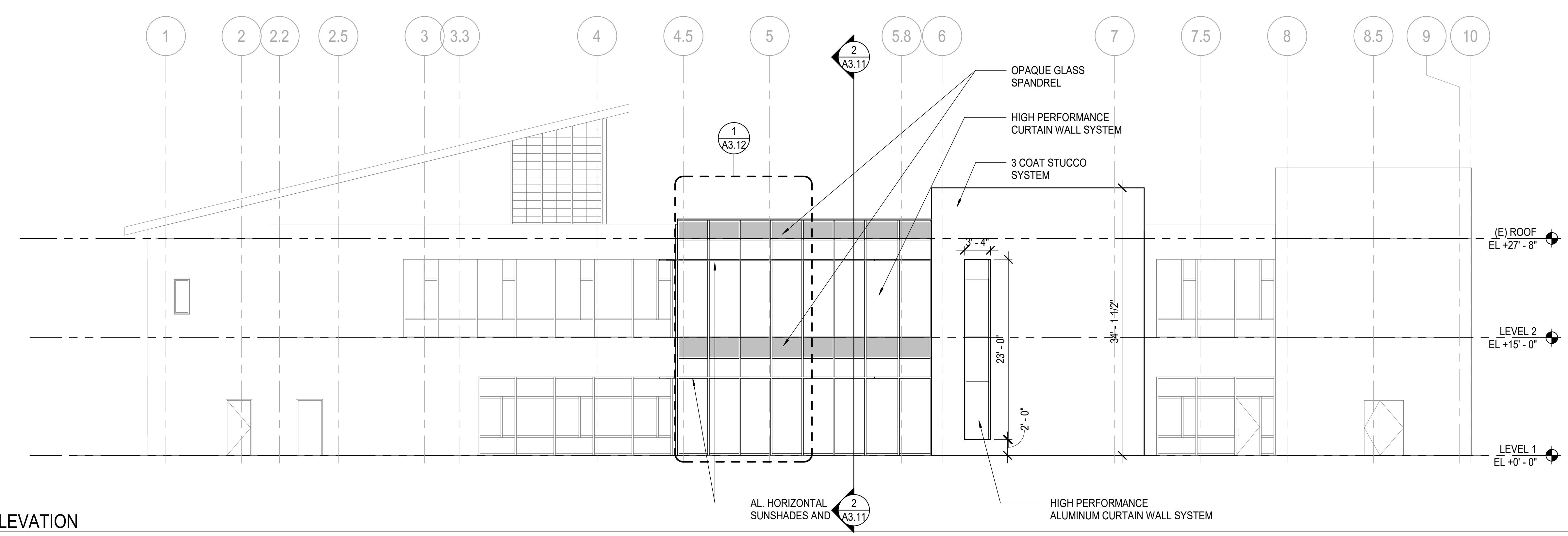
Revisions and Description Date



4 WEST ELEVATION SCALE: 1/8" = 1'-0"

3 NORTH ELEVATION-COURTYARD SCALE: 1/8" = 1'-0"

2 EAST ELEVATION SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION SCALE: 1/8" = 1'-0"

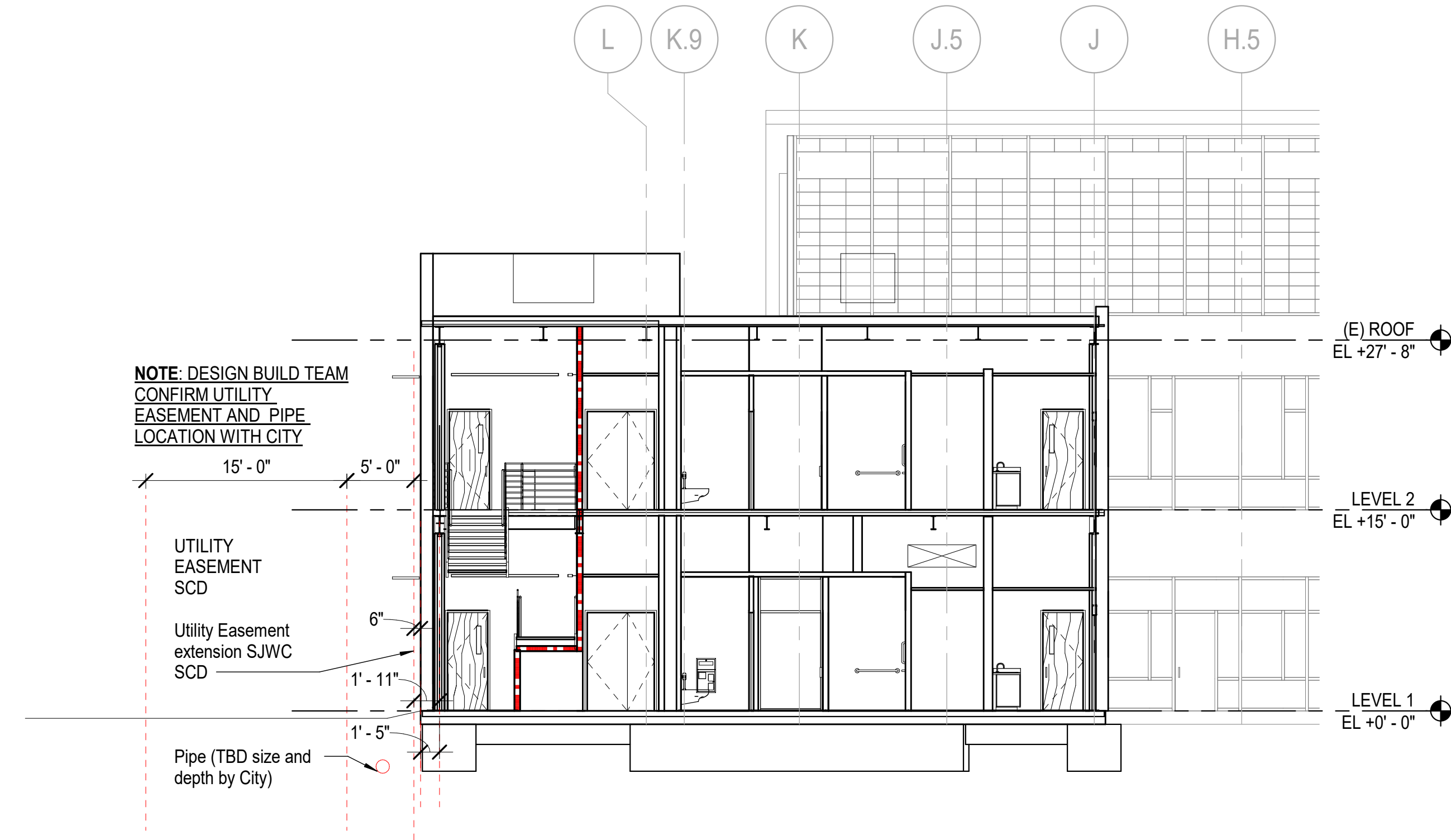
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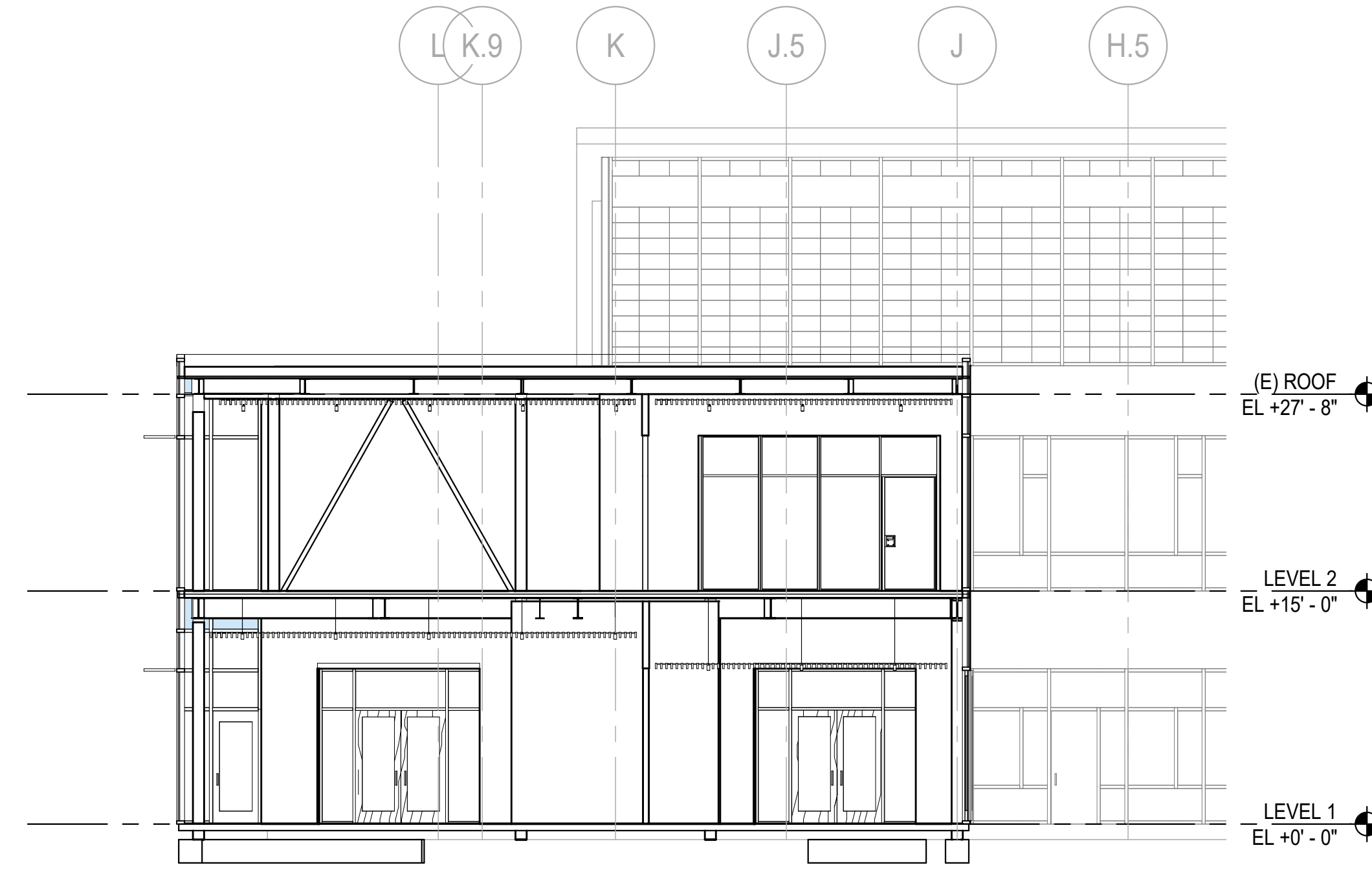
Sheet Title BUILDING ELEVATIONS

Sheet Number

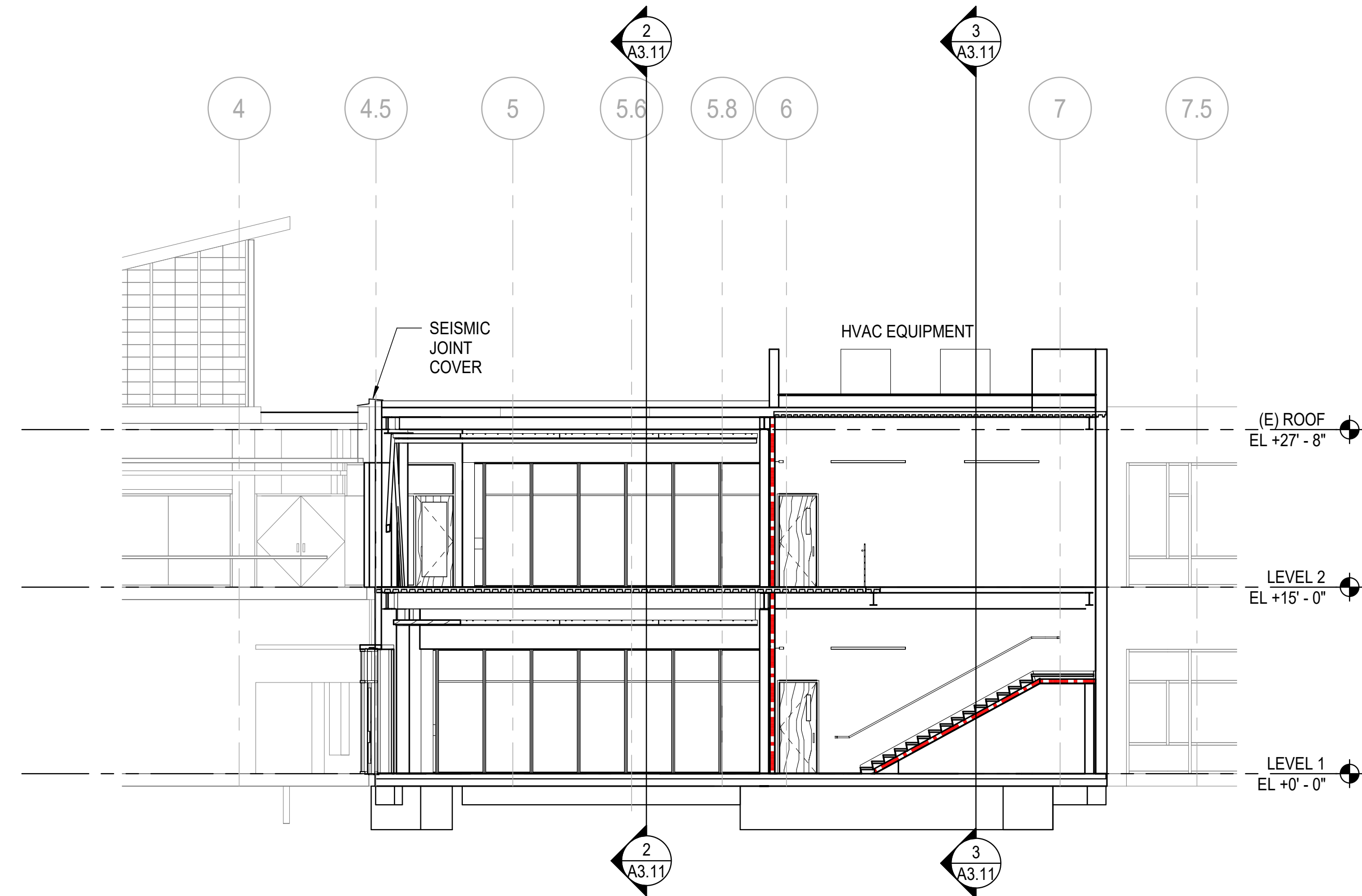
A3.01



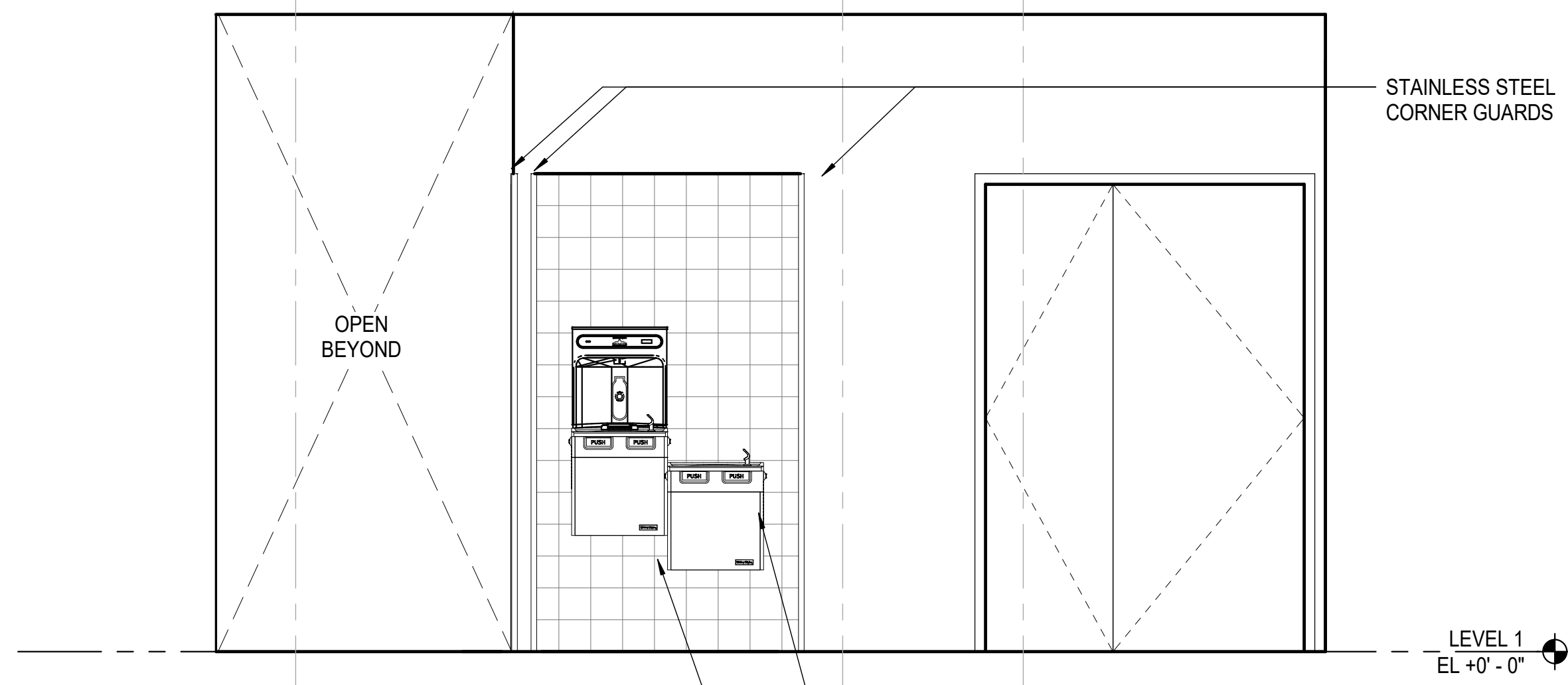
**SECTION 2 NORTH-SOUTH SHOWING WATER
EASEMENT**
3
A3.11 SCALE: 1/8" = 1'-0"



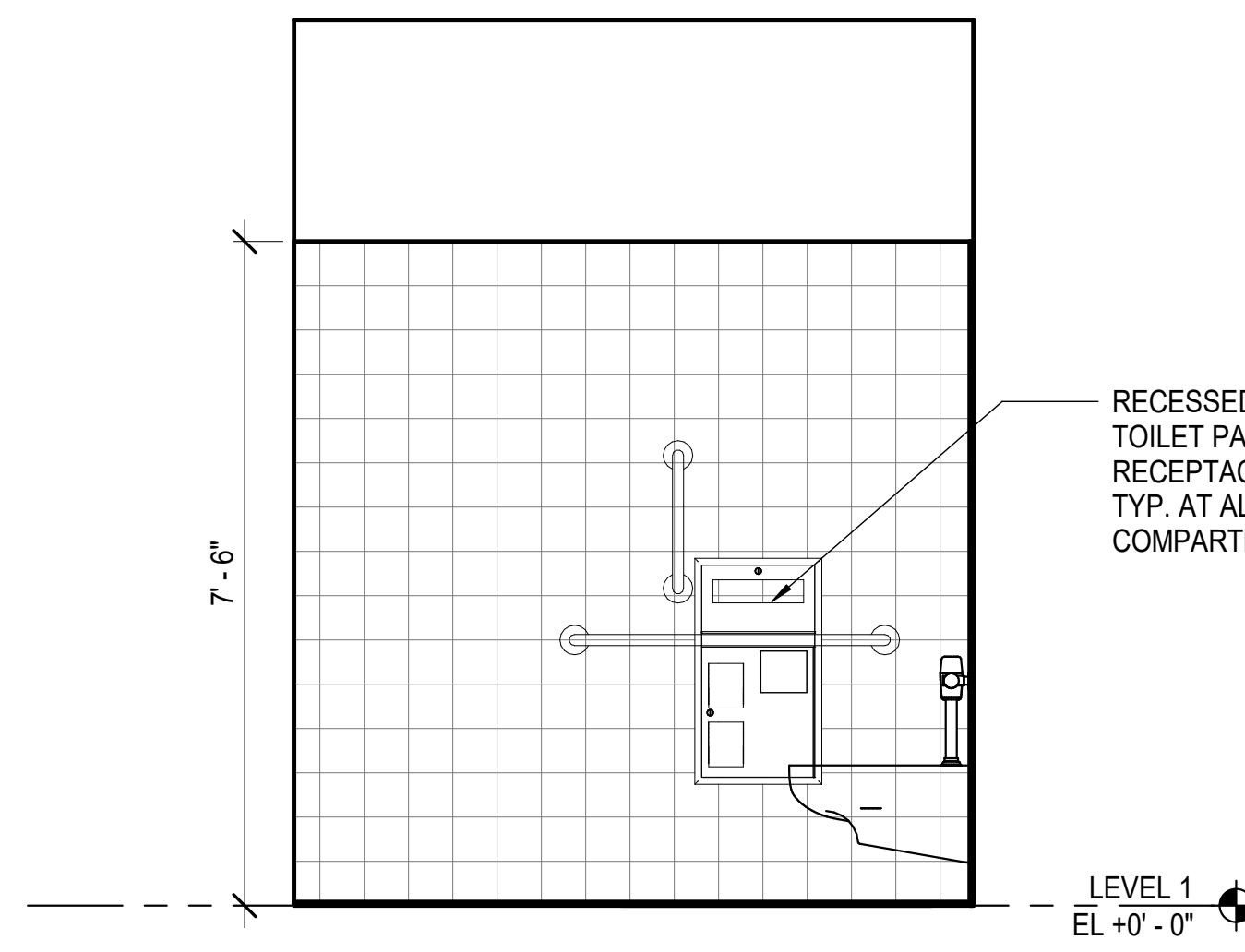
SECTION 6 NORTH SOUTH
2
A3.11 SCALE: 1/8" = 1'-0"



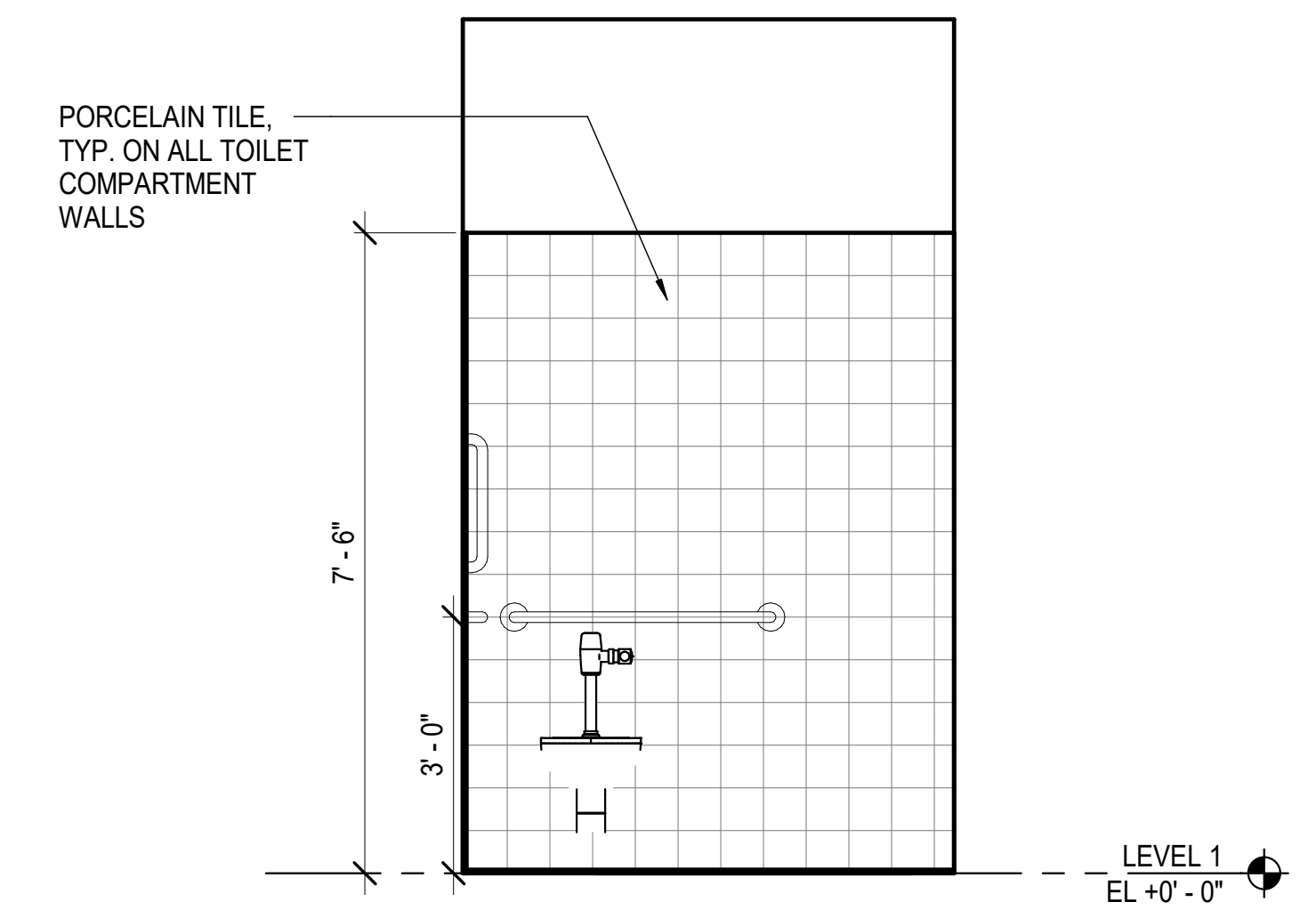
SECTION 4 EAST WEST
1
A3.11 SCALE: 1/8" = 1'-0"



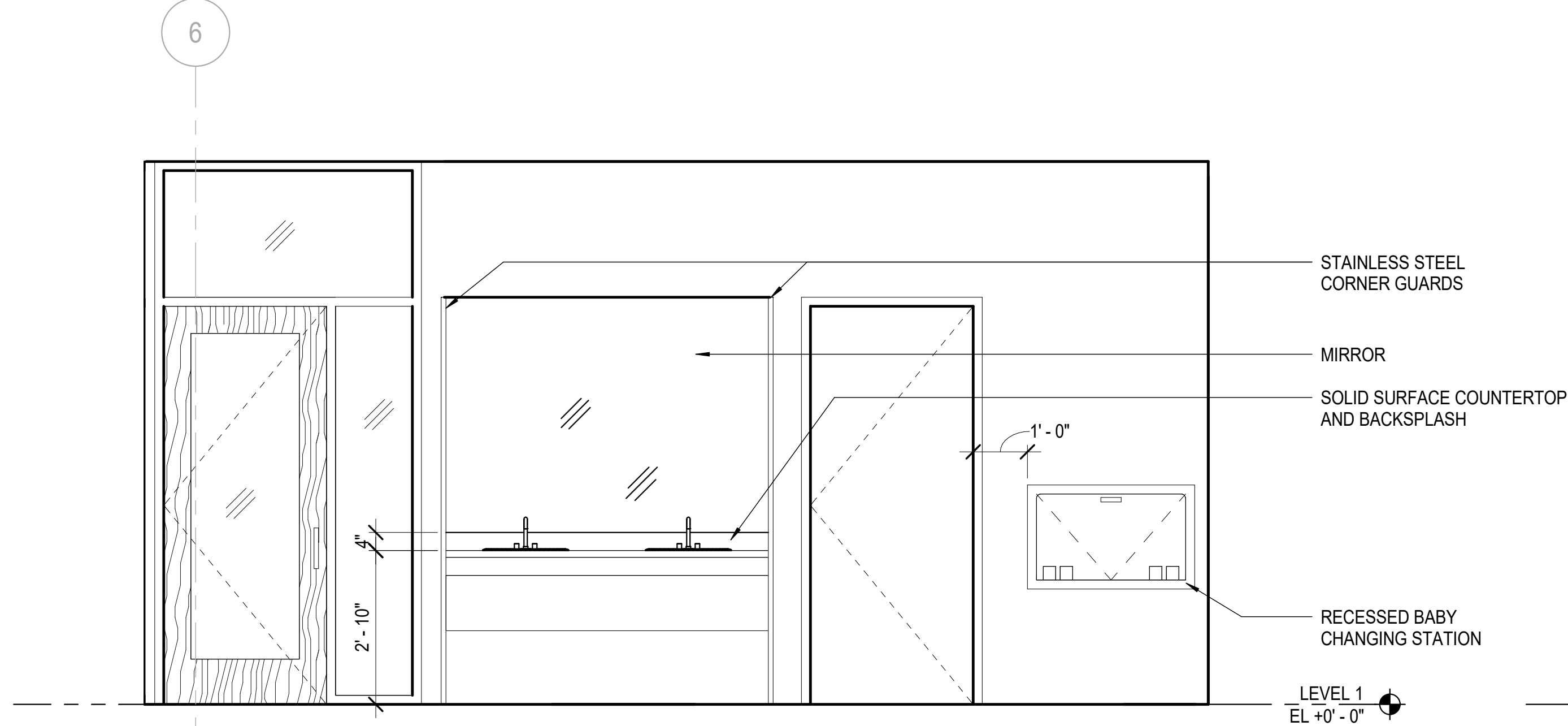
8 DRINKING FOUNTAIN A4.01 SCALE: 1/2" = 1'-0"



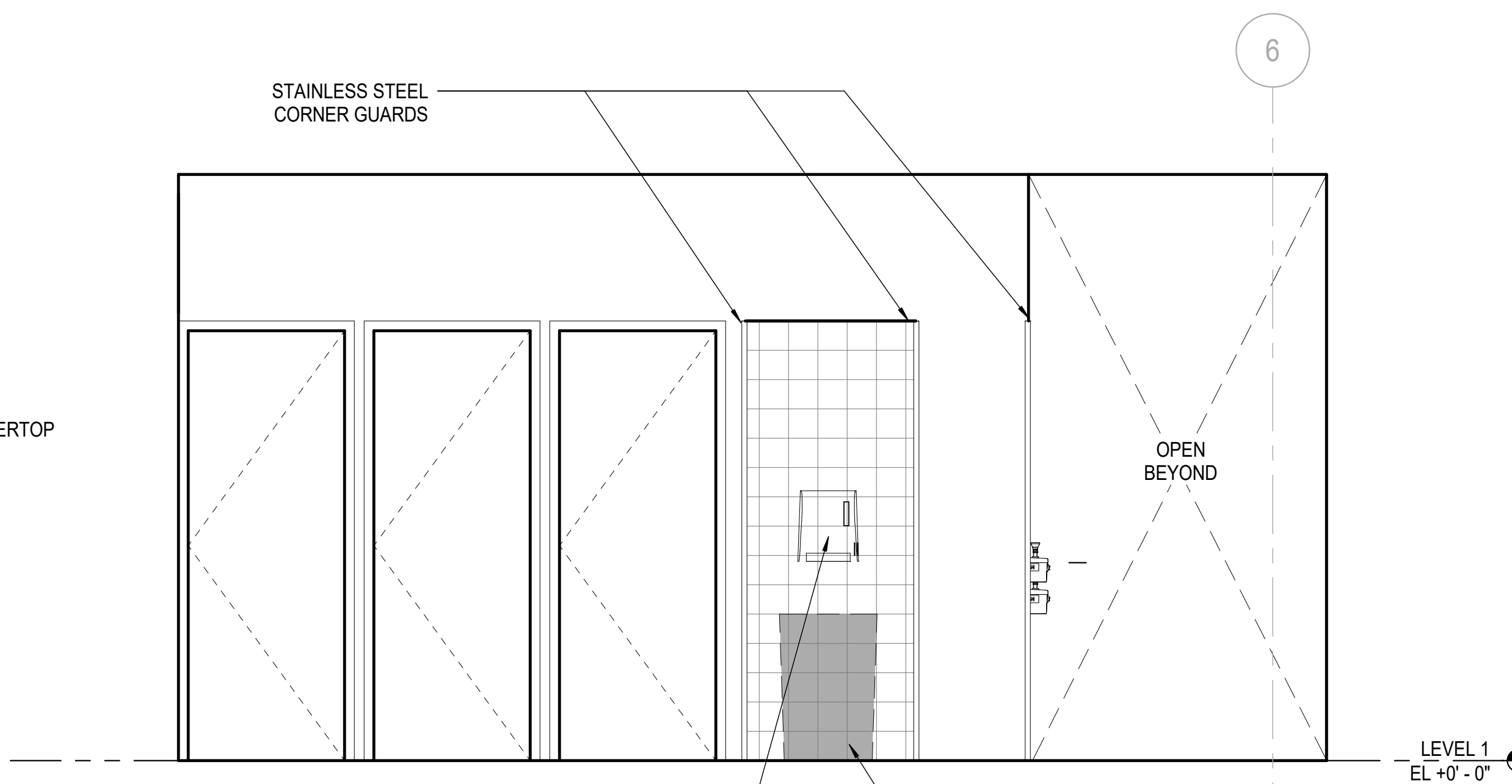
7 ADA TOILET COMPARTMENT NORTH A4.01 SCALE: 1/2" = 1'-0"



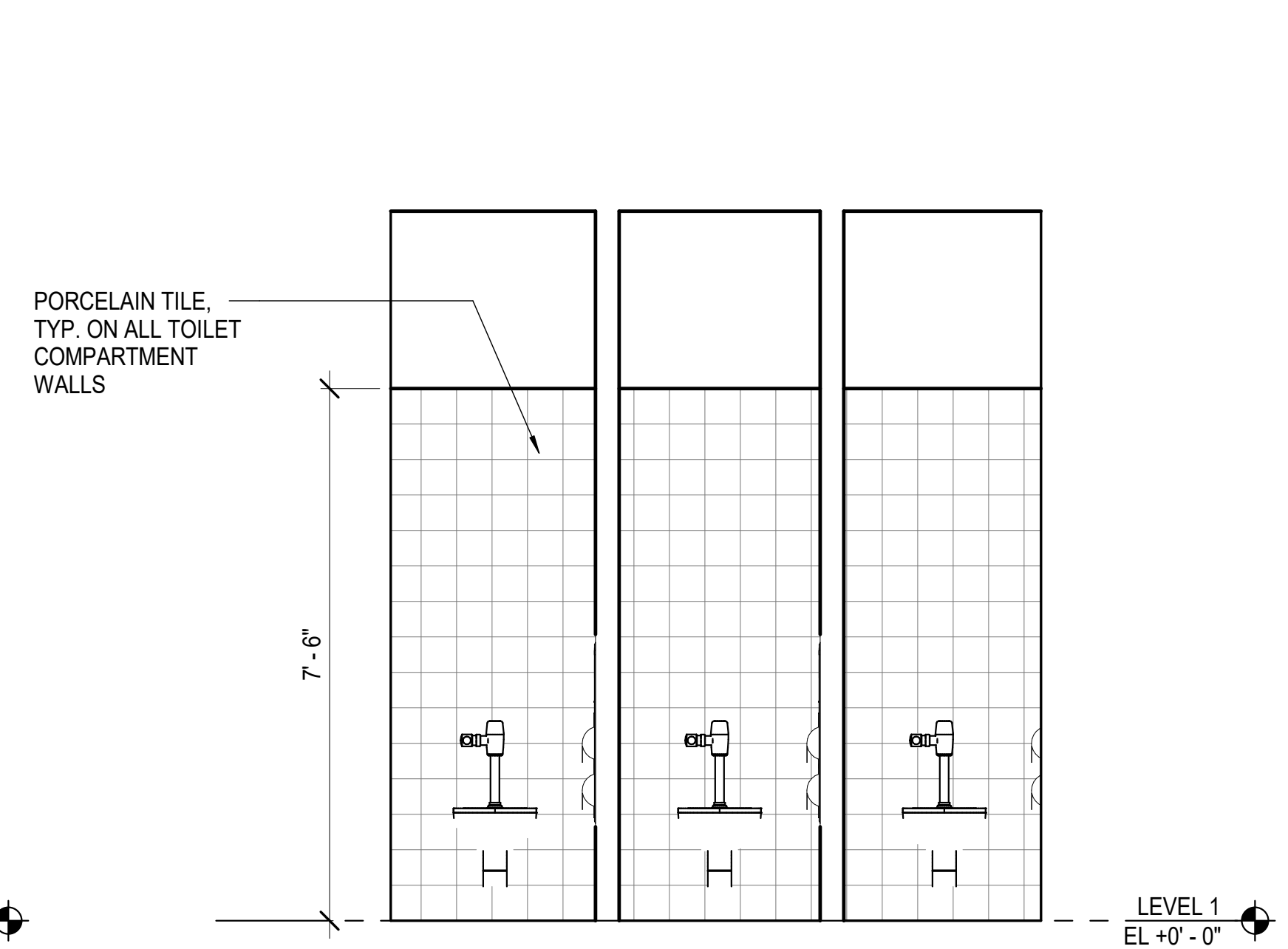
6 ADA TOILET COMPARTMENT EAST A4.01 SCALE: 1/2" = 1'-0"



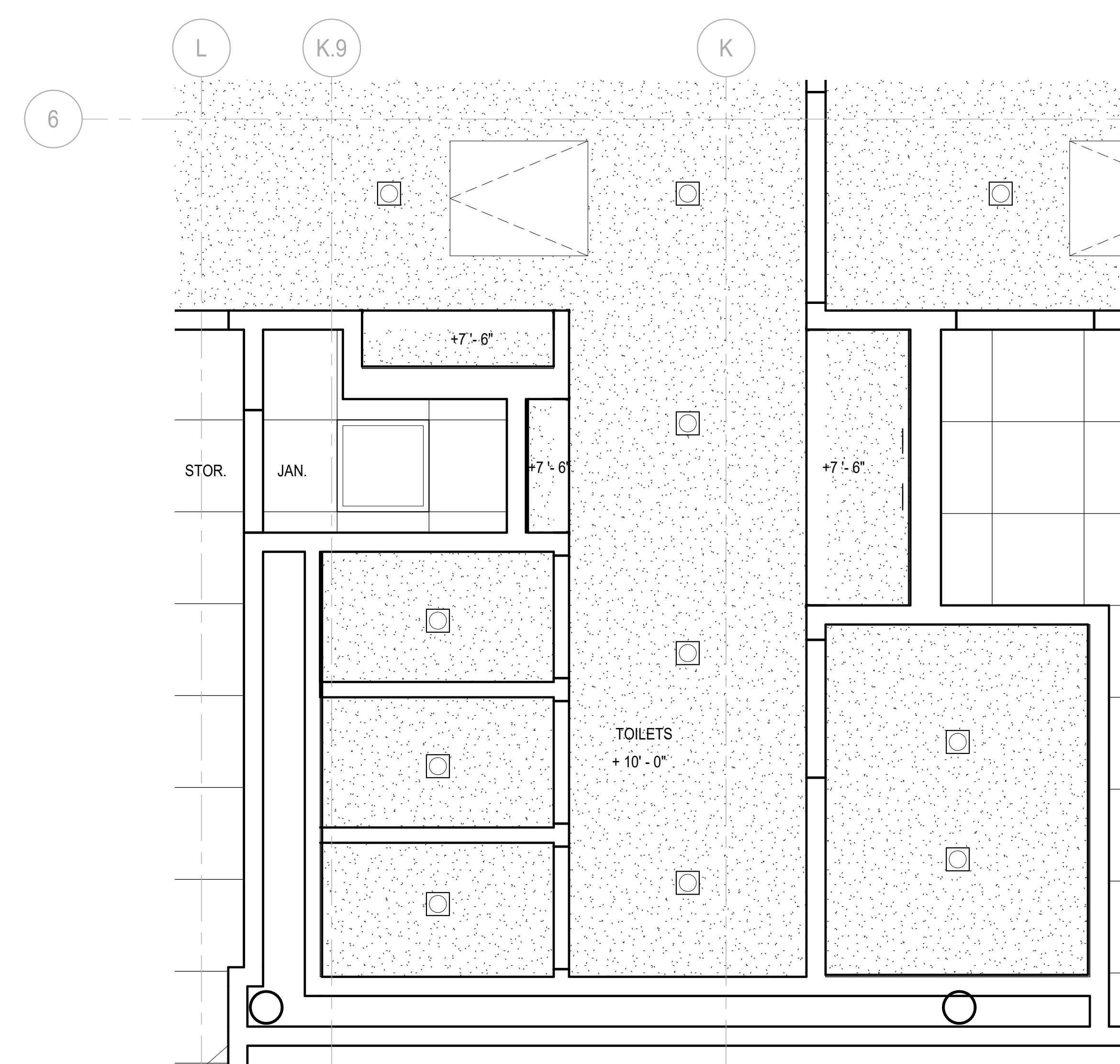
5 TOILETS NORTH A4.01 SCALE: 1/2" = 1'-0"



4 TOILETS SOUTH A4.01 SCALE: 1/2" = 1'-0"

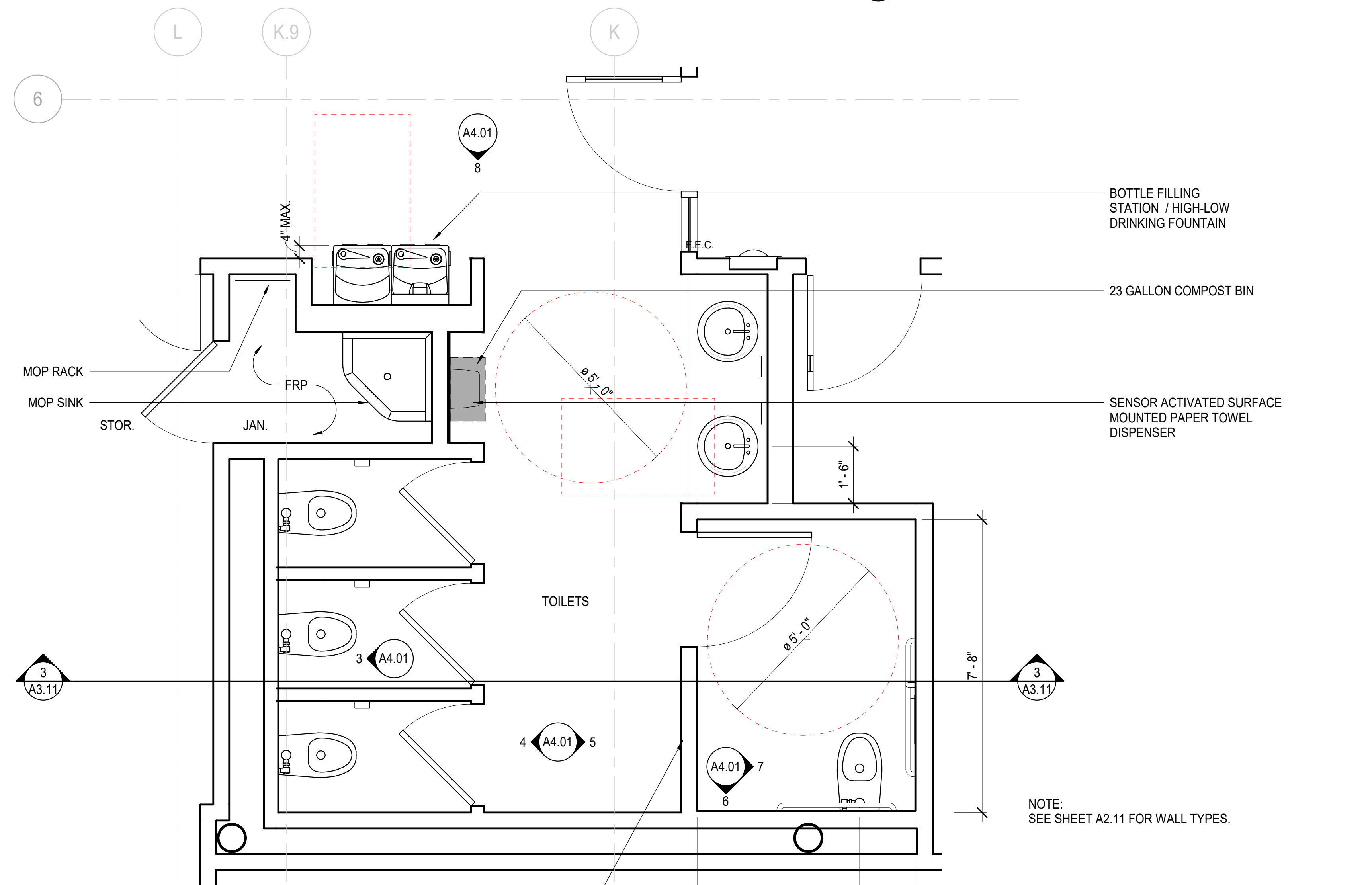


3 TOILET COMPARTMENTS SOUTH A4.01 SCALE: 1/2" = 1'-0"



2 LEVEL 1 - ENLARGED TOILET RCP (LEVEL 2 SIM.) A4.01 SCALE: 1/2" = 1'-0"

NOTE: ALL WATER CLOSETS ARE SEPARATE ROOMS WITH FULL HEIGHT WALLS AND WILL REQUIRE THEIR OWN VENTING AND FIRE SPRINKLER.



1 LEVEL 1 - ENLARGED TOILETS PLAN (LEVEL 2 SIM.) A4.01 SCALE: 1/2" = 1'-0"

NOTE: SEE SHEET A2.11 FOR WALL TYPES.

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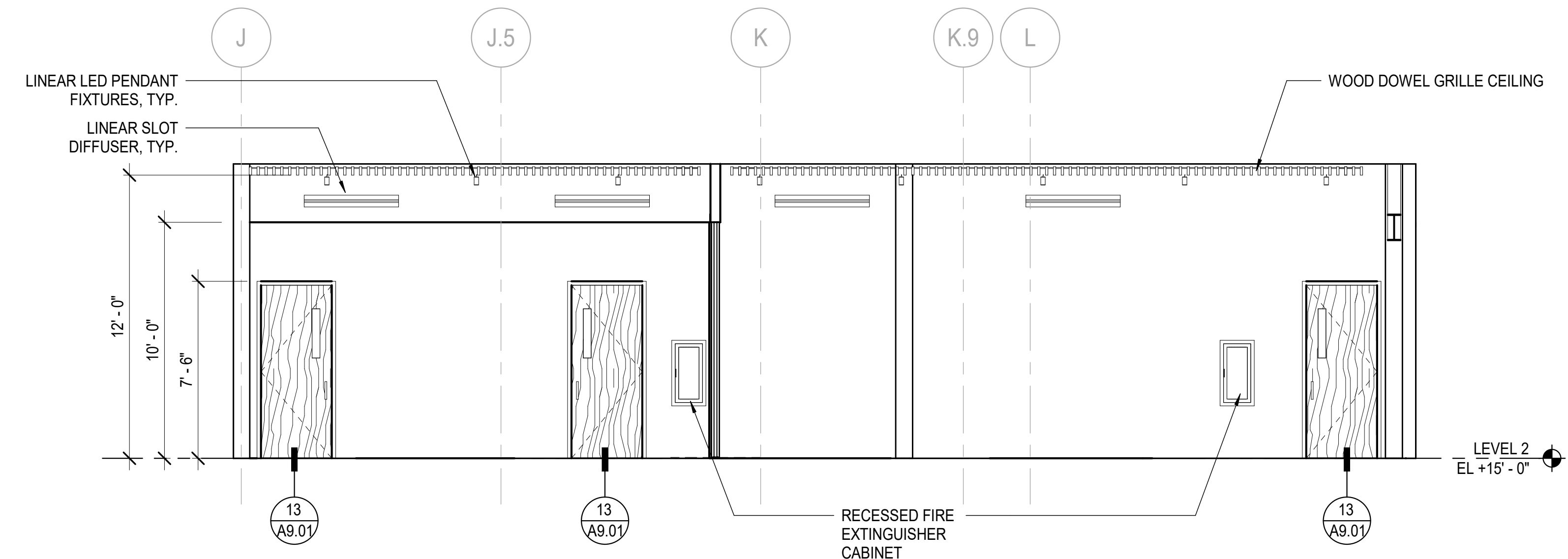
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Author

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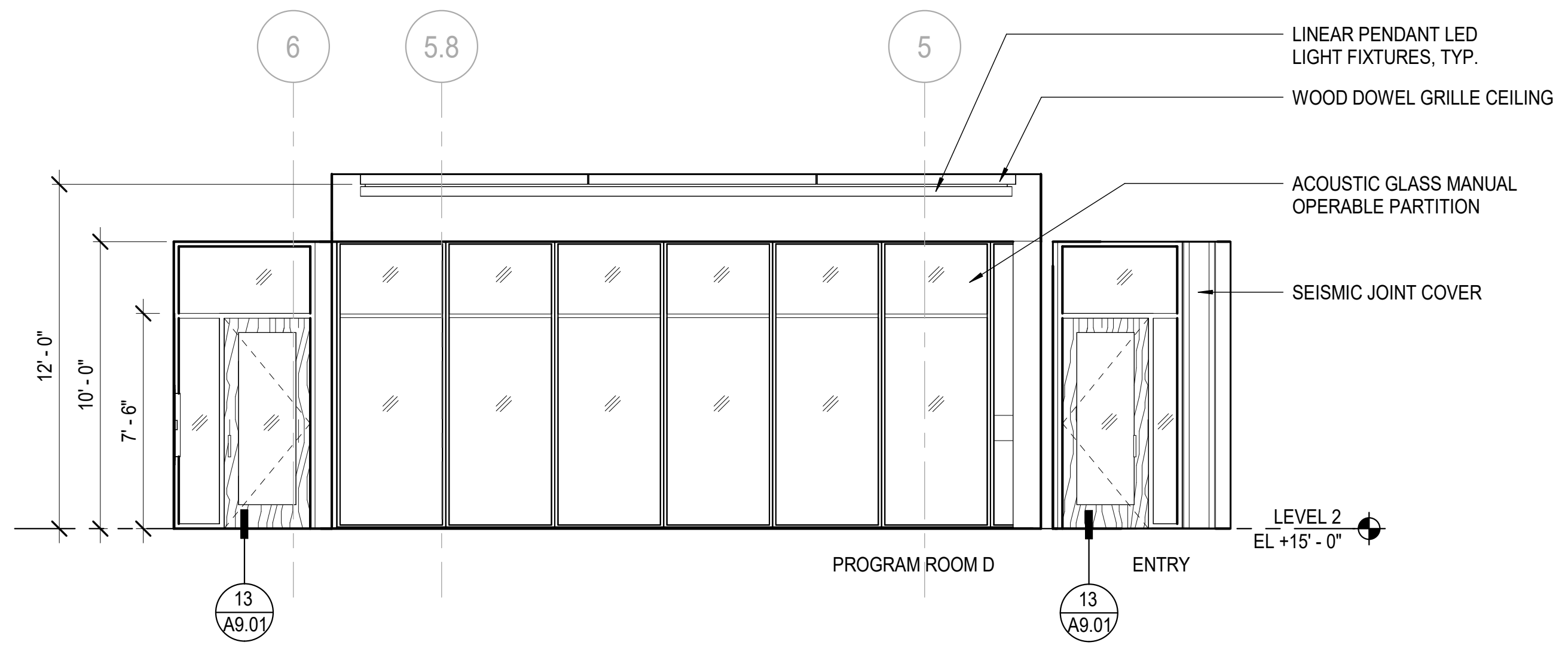
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INTERIOR ELEVATIONS

Sheet Number

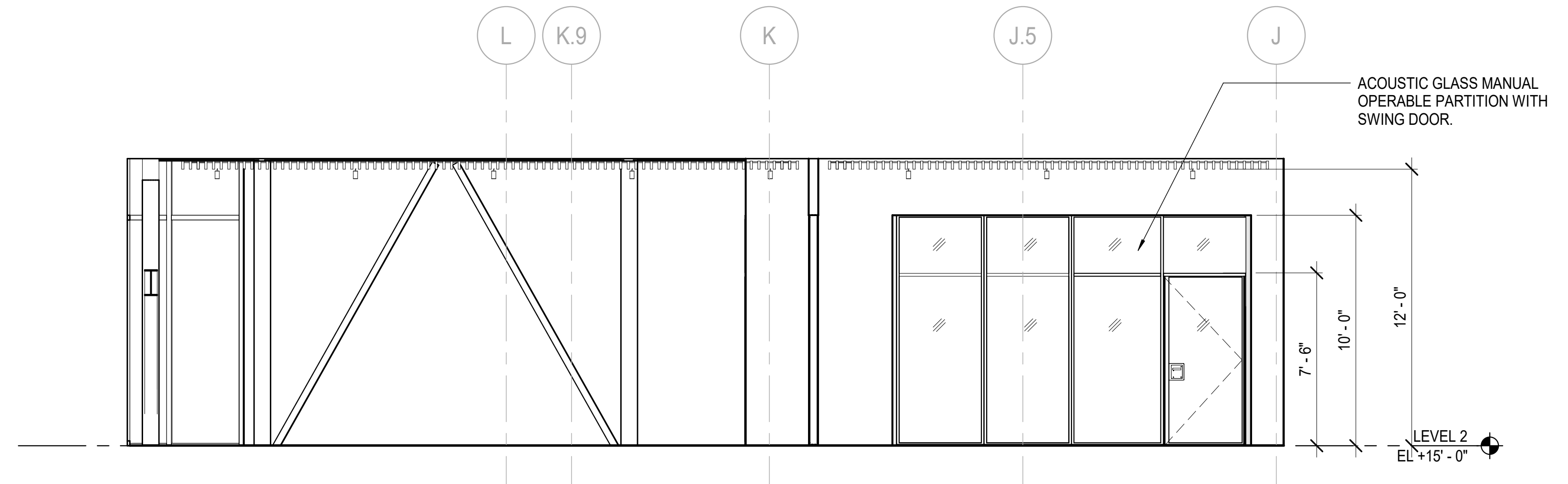
A5.01



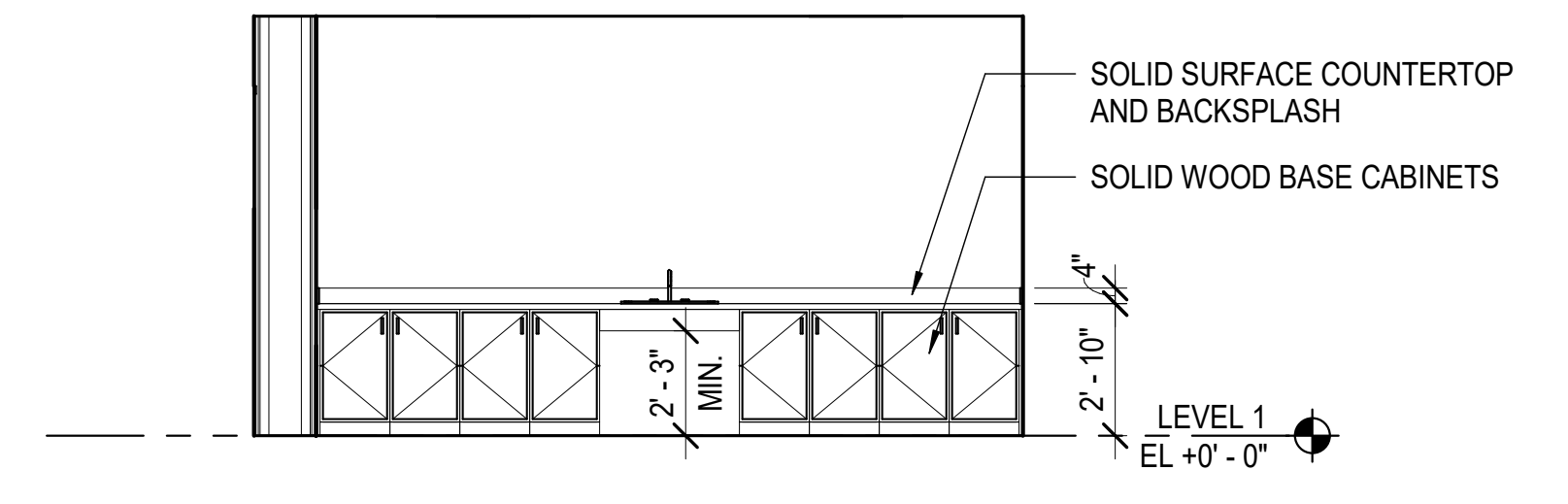
7 PROGRAM ROOMS C & D EAST
SCALE: 1/4" = 1'-0"



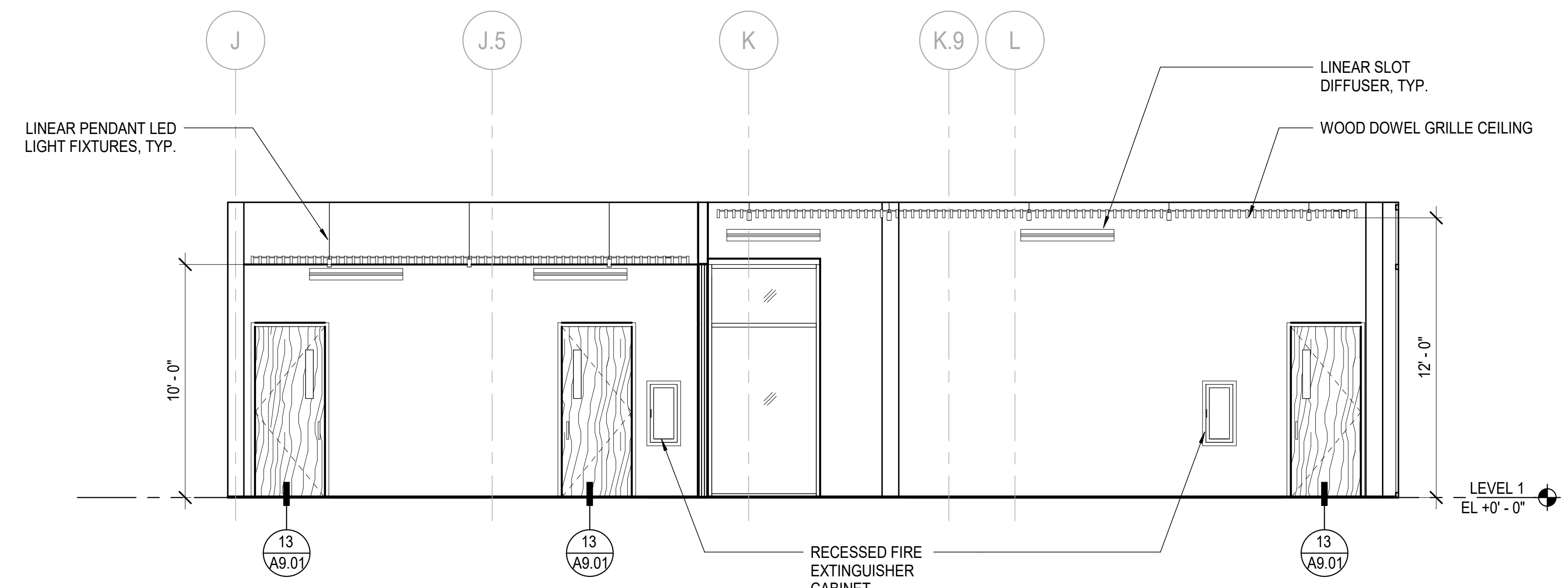
6 PROGRAM ROOMS D SOUTH
SCALE: 1/4" = 1'-0"



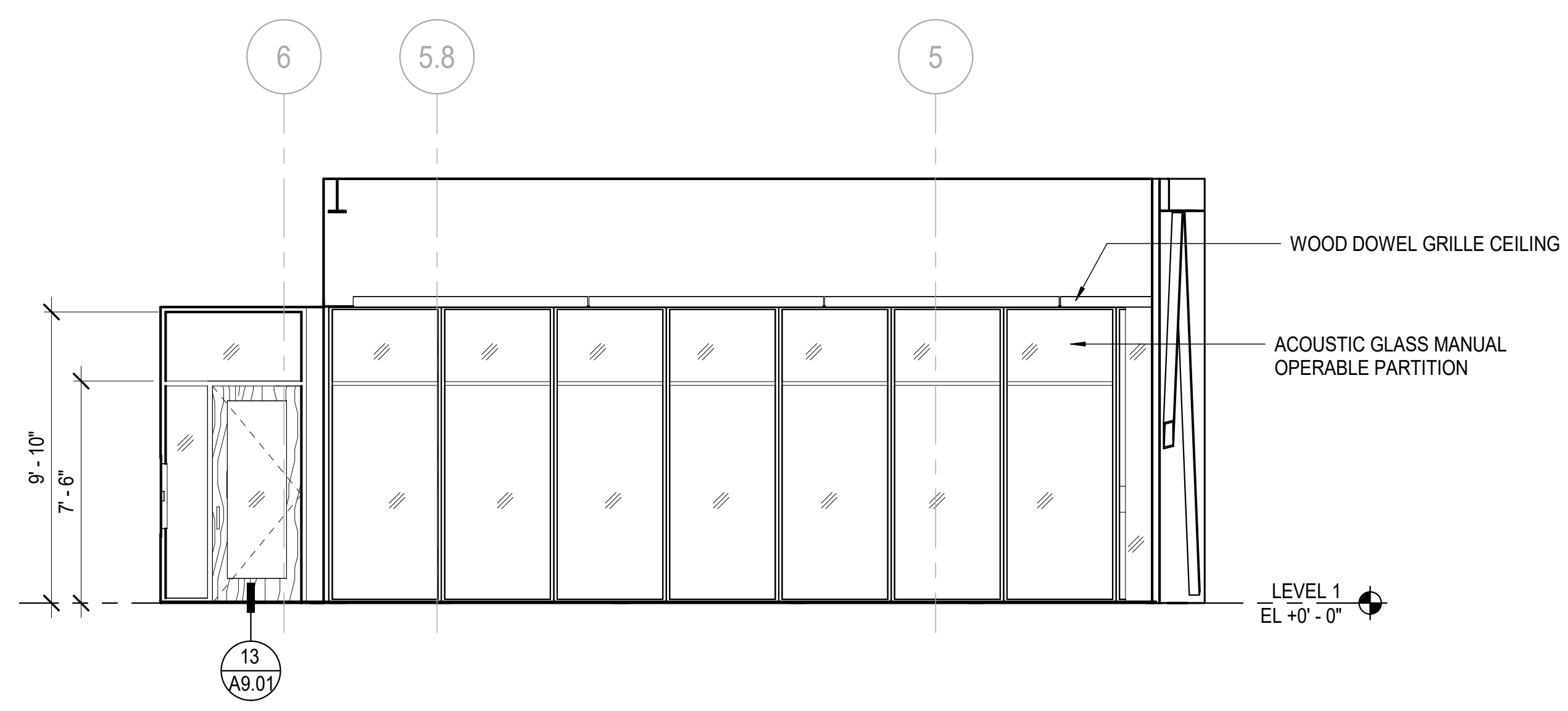
5 PROGRAM ROOMS C & D WEST
SCALE: 1/4" = 1'-0"



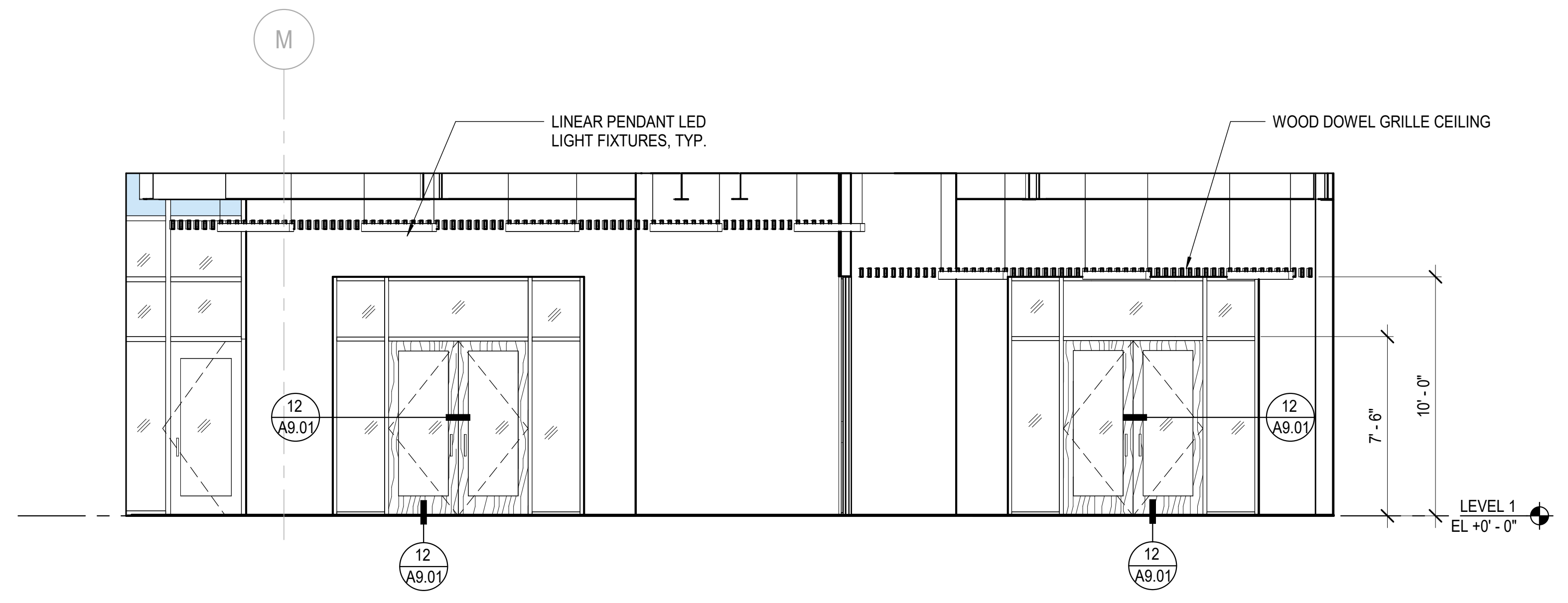
4 PANTRY SOUTH (LEVEL 1 & 2 SIM.)
SCALE: 1/4" = 1'-0"



3 PROGRAM ROOMS A & B EAST
SCALE: 1/4" = 1'-0"



2 PROGRAM ROOM A SOUTH
SCALE: 1/4" = 1'-0"



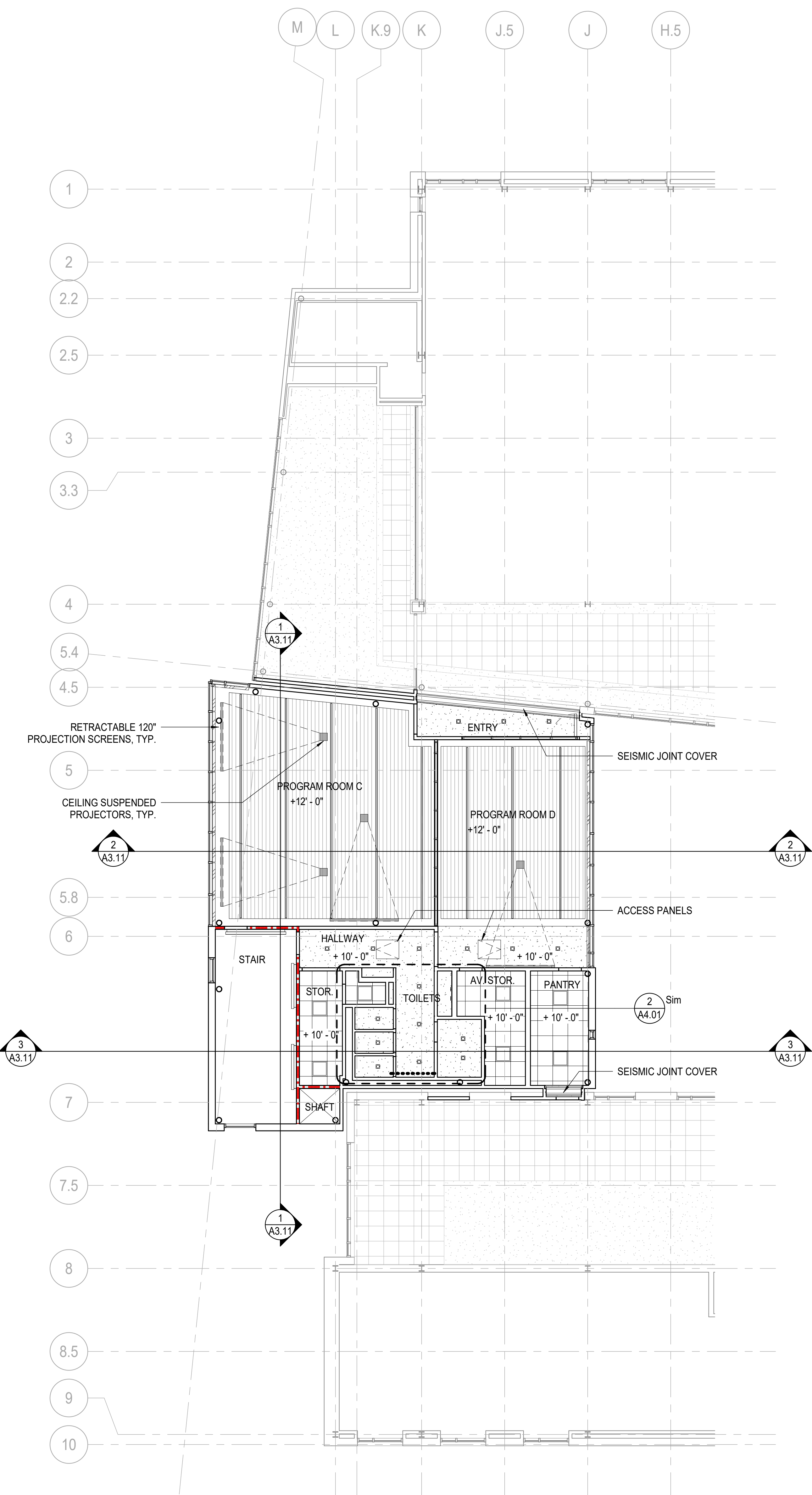
1 PROGRAM ROOMS A & B WEST
SCALE: 1/4" = 1'-0"

REFLECTED CEILING NOTES

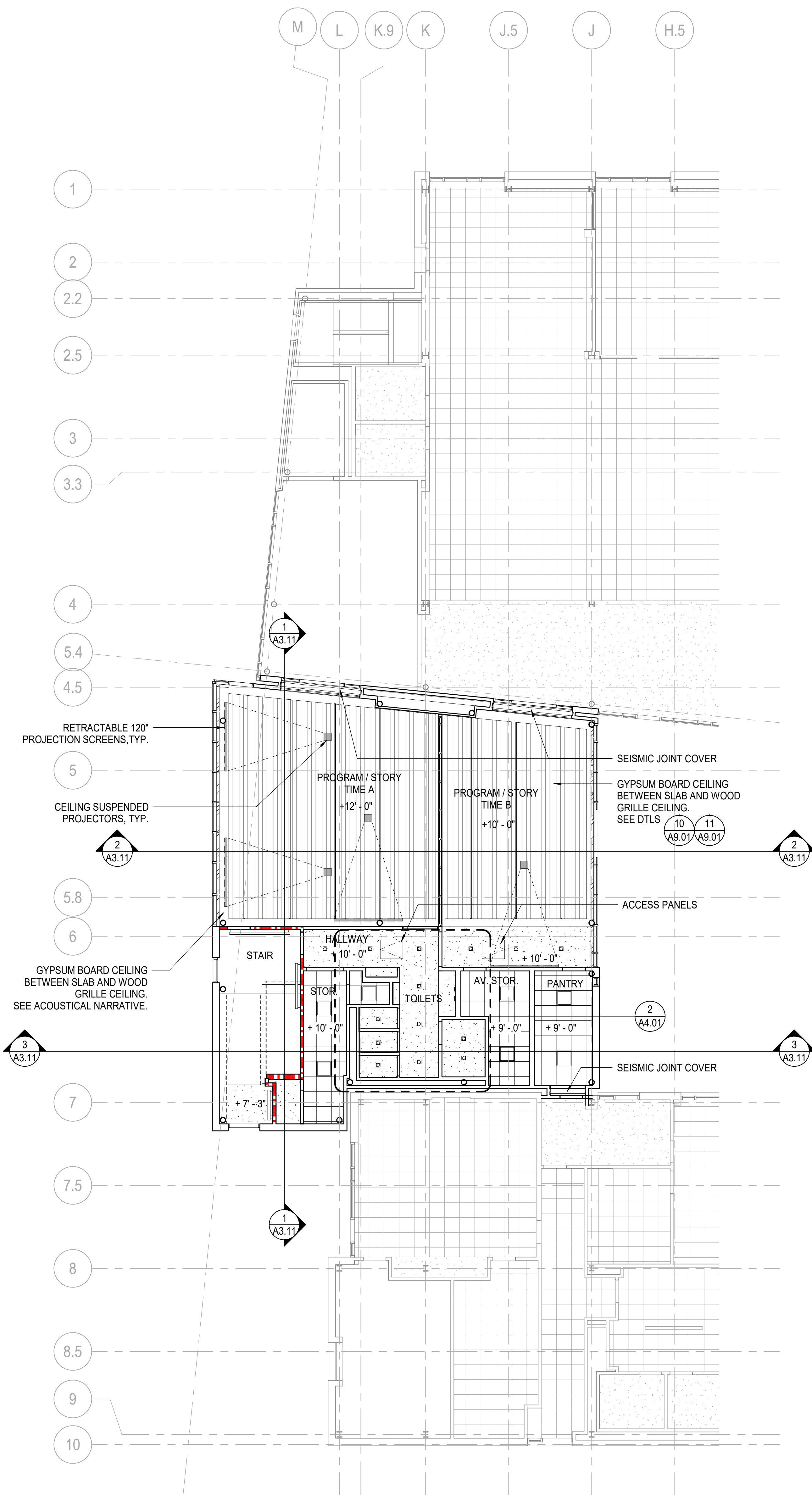
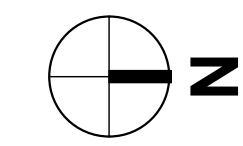
1. REFER TO INTERIOR ELEVATIONS ON SHEET A5.01 FOR MORE INFORMATION.
2. REFER TO SPECIFICATIONS FOR FINISH MATERIAL DESCRIPTIONS.
3. REFER TO ACOUSTICAL NARRATIVE FOR MORE INFORMATION.
4. REFER TO SHEET A9.01 FOR TYPICAL ACOUSTIC INTERIOR DETAILS.

REFLECTED CEILING LEGEND

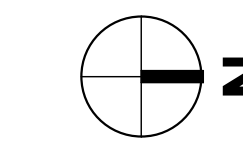
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD CEILING
- WOOD DOWEL GRILLE CEILING
- +12'-8" HEIGHT OF CEILING
- 2'X2' LAY IN LED FIXTURE
- WALL MOUNTED LINEAR LED FIXTURE
- SUSPENDED LINEAR LED FIXTURE
- RECESSED LED DOWNLIGHT
- DUAL WINDOW / BLACK-OUT SHADE

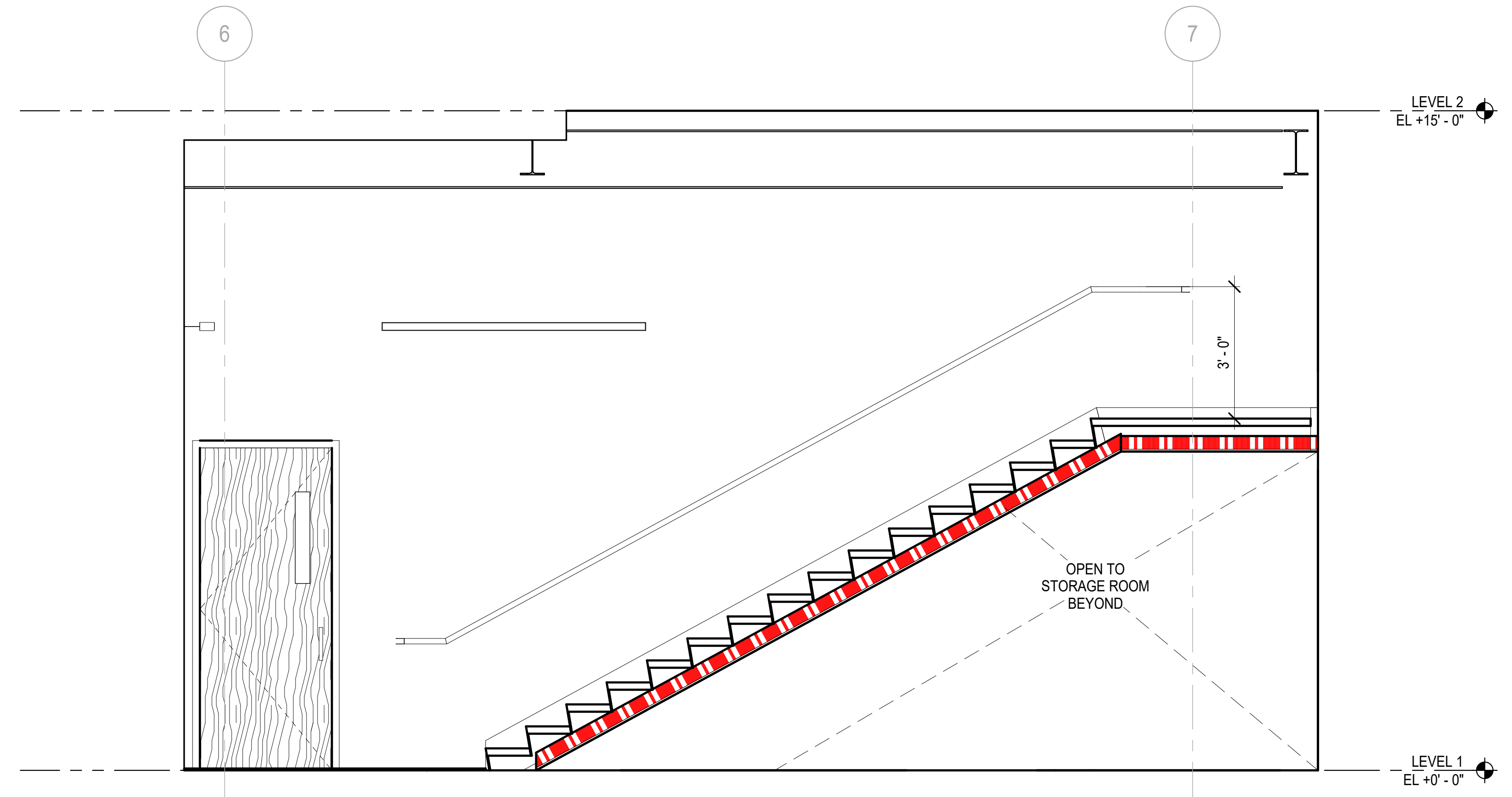


2 LEVEL 2 - RCP SCALE: 1/8" = 1'-0"

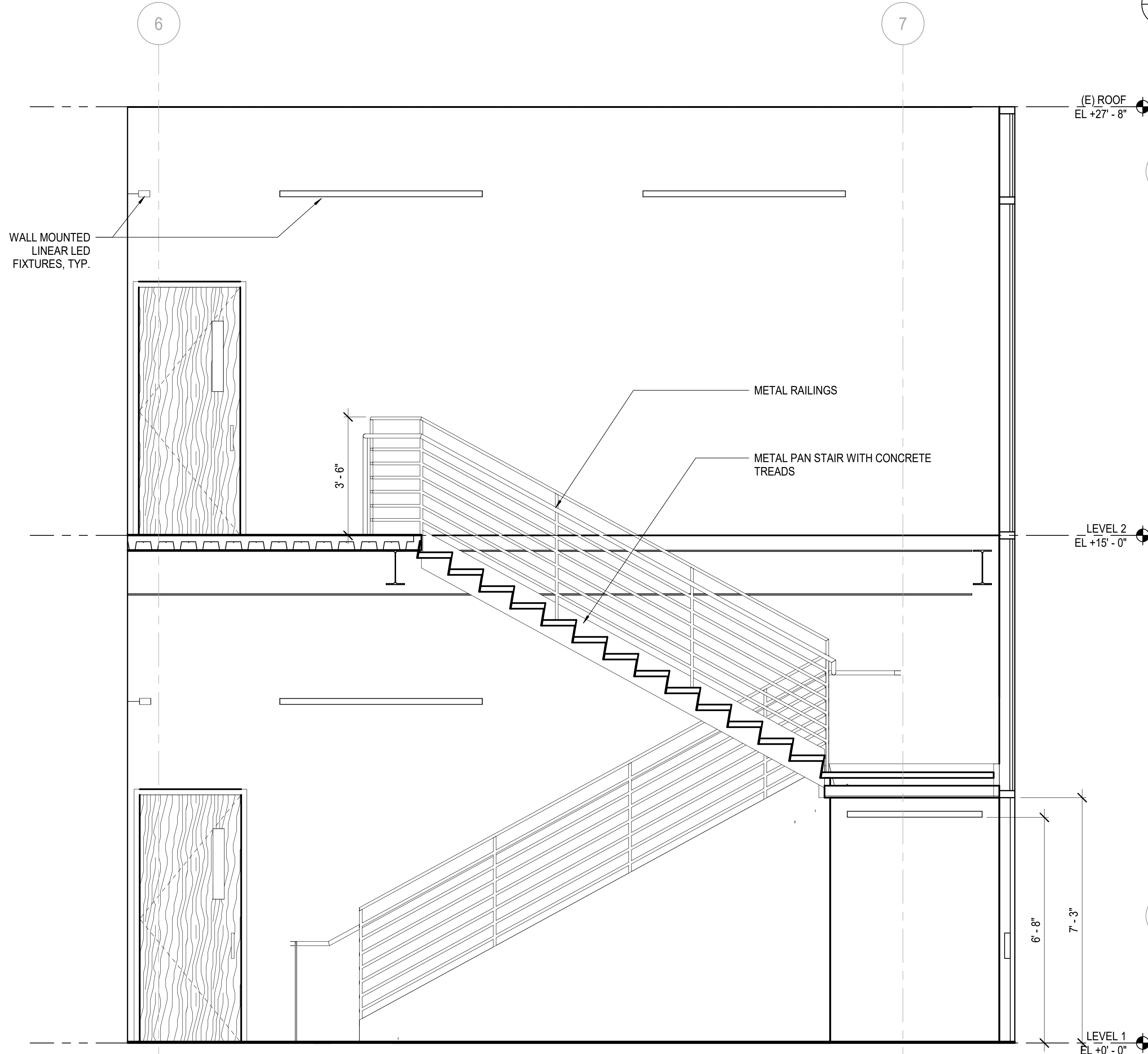


1 LEVEL 1 - RCP SCALE: 1/8" = 1'-0"

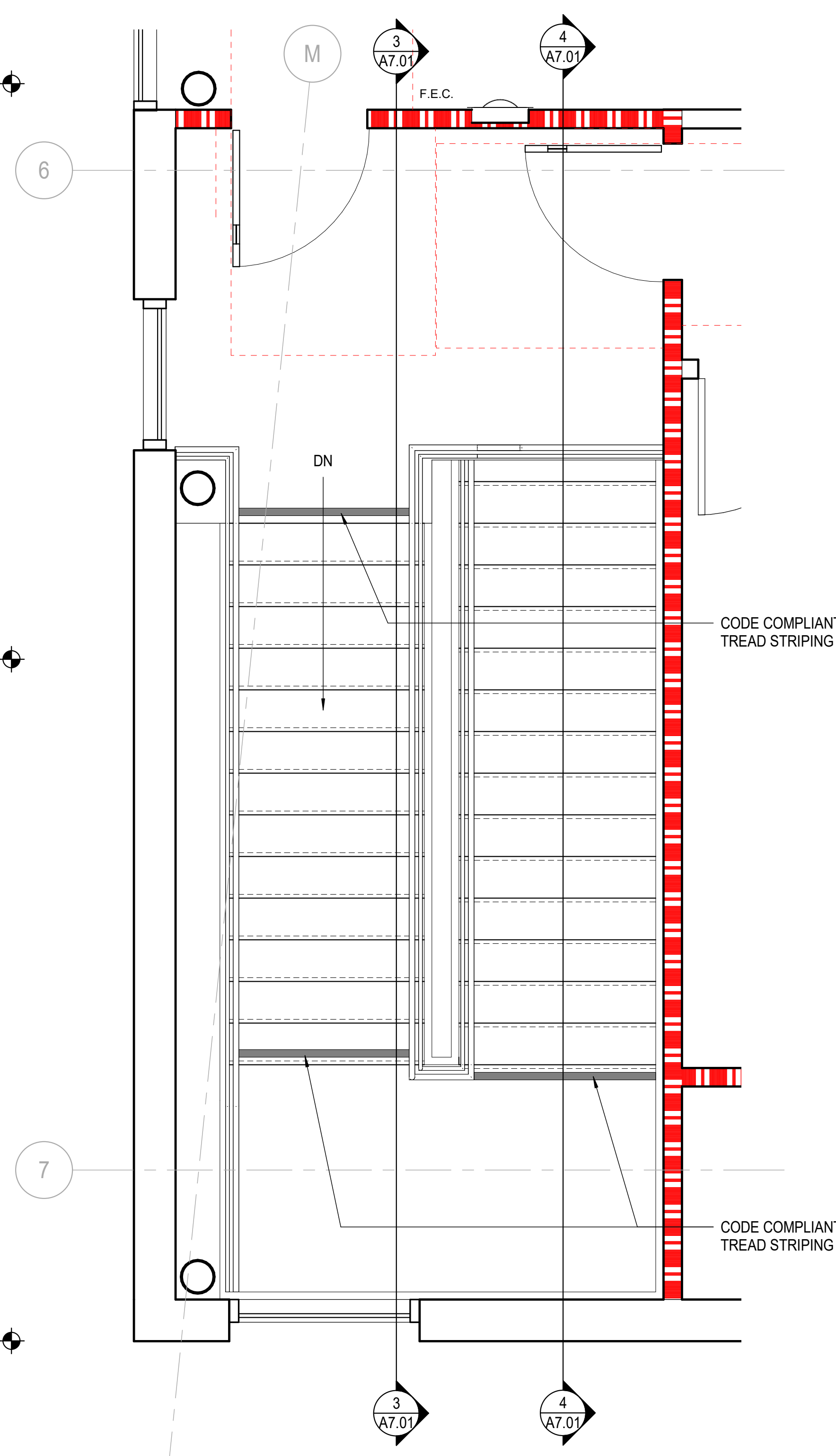




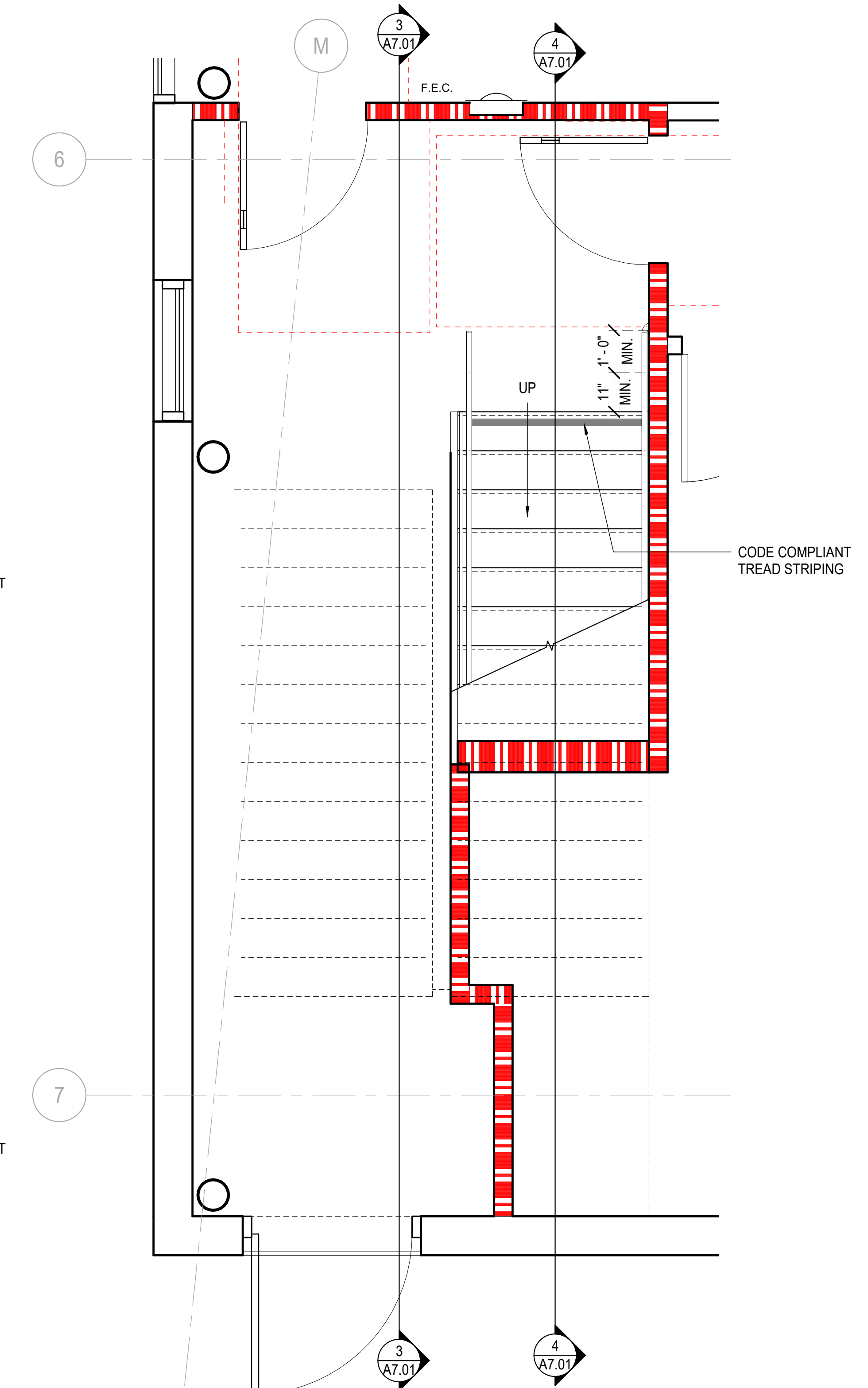
4 STAIR NORTH 2
A7.01 SCALE: 1/2" = 1'-0"



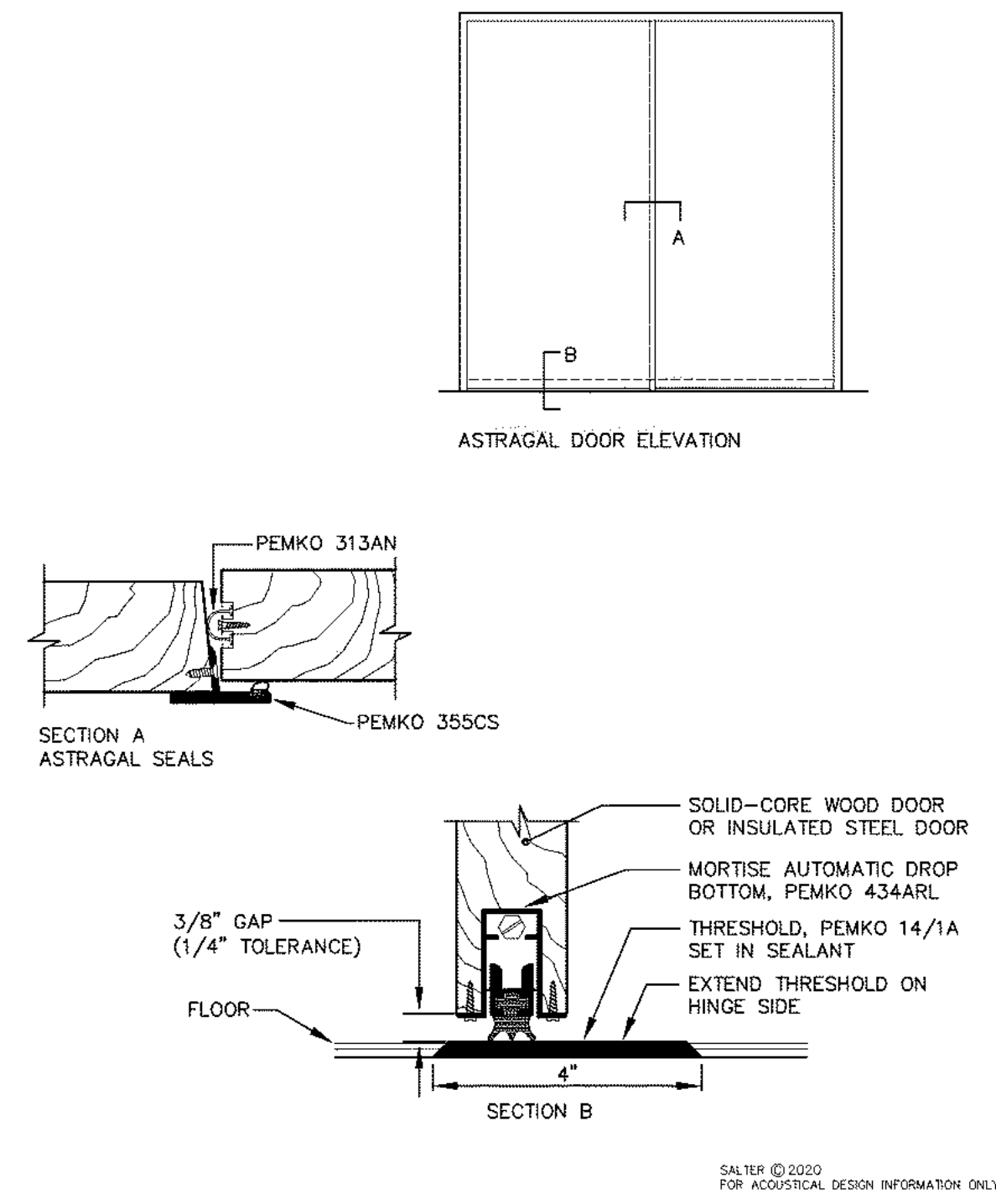
3 STAIR NORTH 1
A7.01 SCALE: 1/2" = 1'-0"



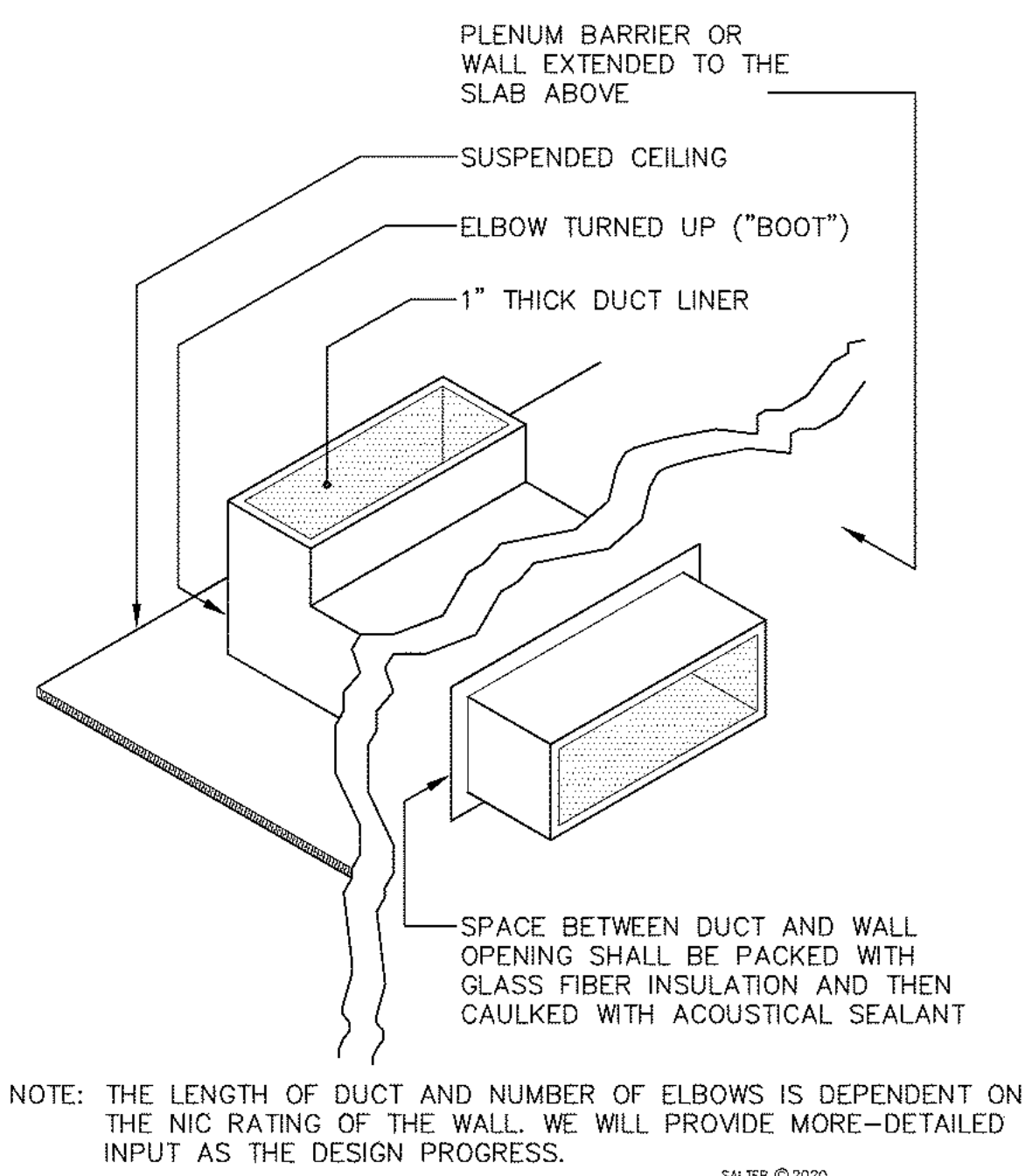
2 LEVEL 2 - ENLARGED STAIR PLAN
A7.01 SCALE: 1/2" = 1'-0"



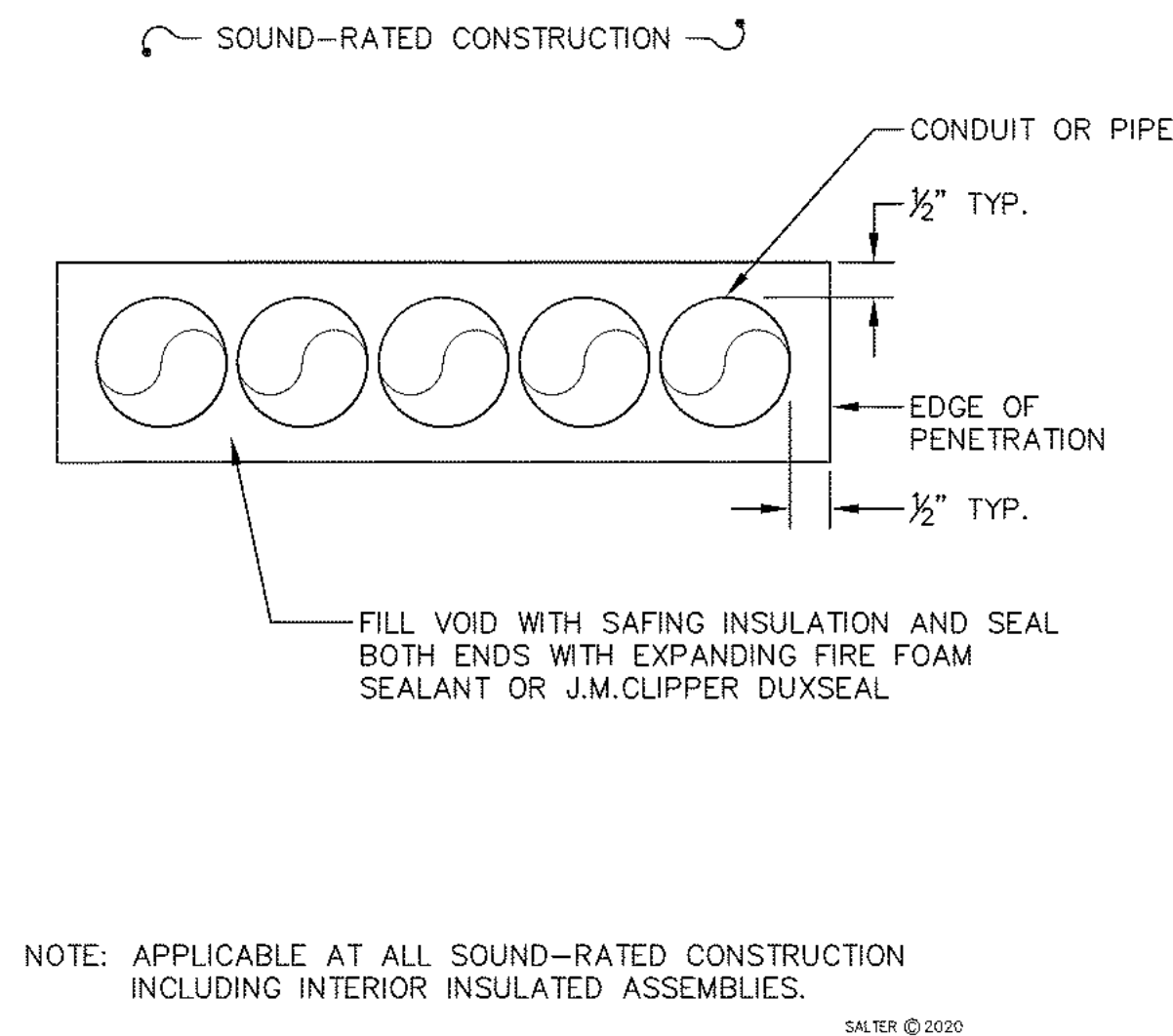
1 LEVEL 1 - ENLARGED STAIR PLAN
A7.01 SCALE: 1/2" = 1'-0"



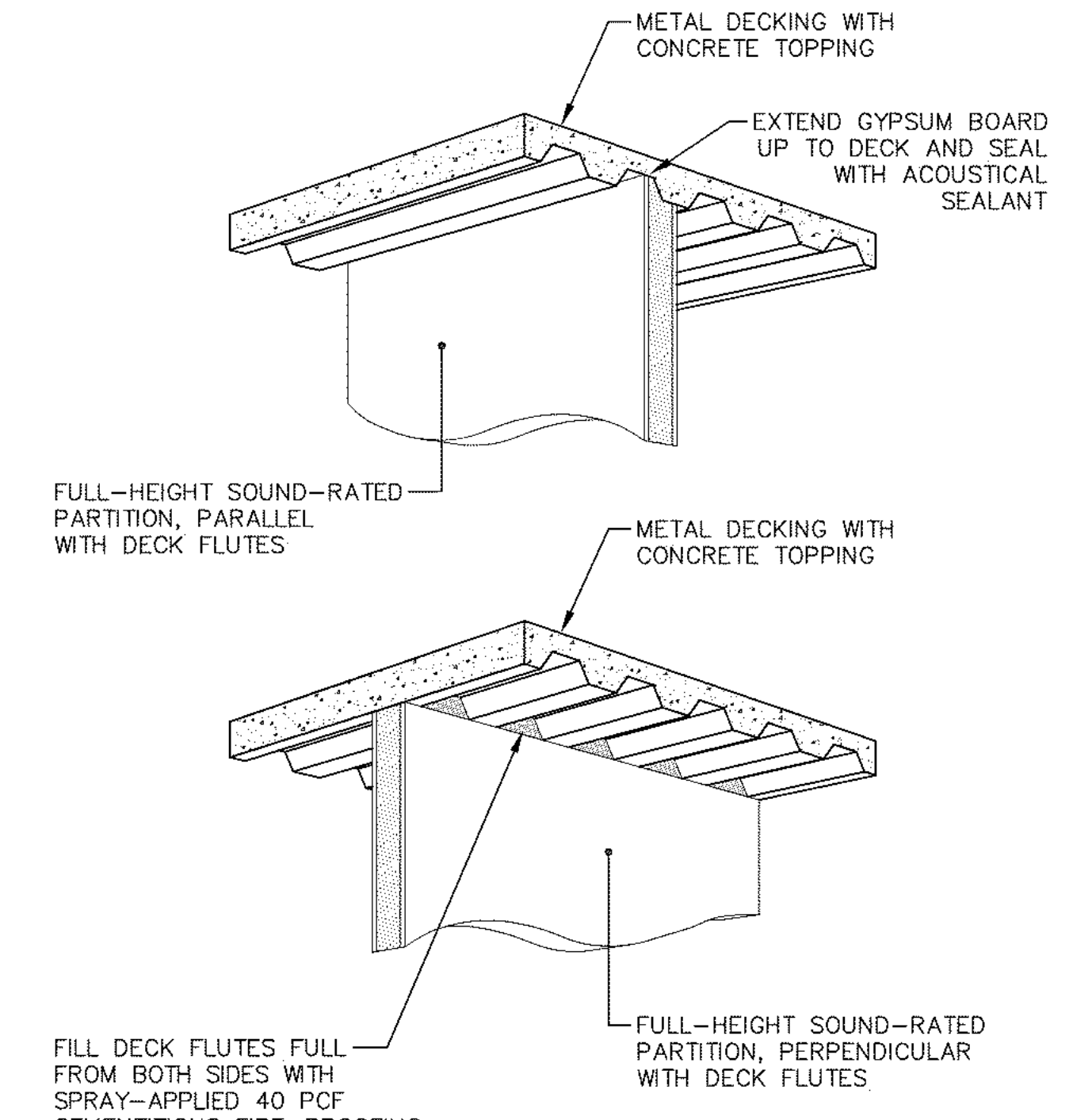
12 SOUND-GASKETED DOOR ASTRAGAL
A9.01 NOT TO SCALE



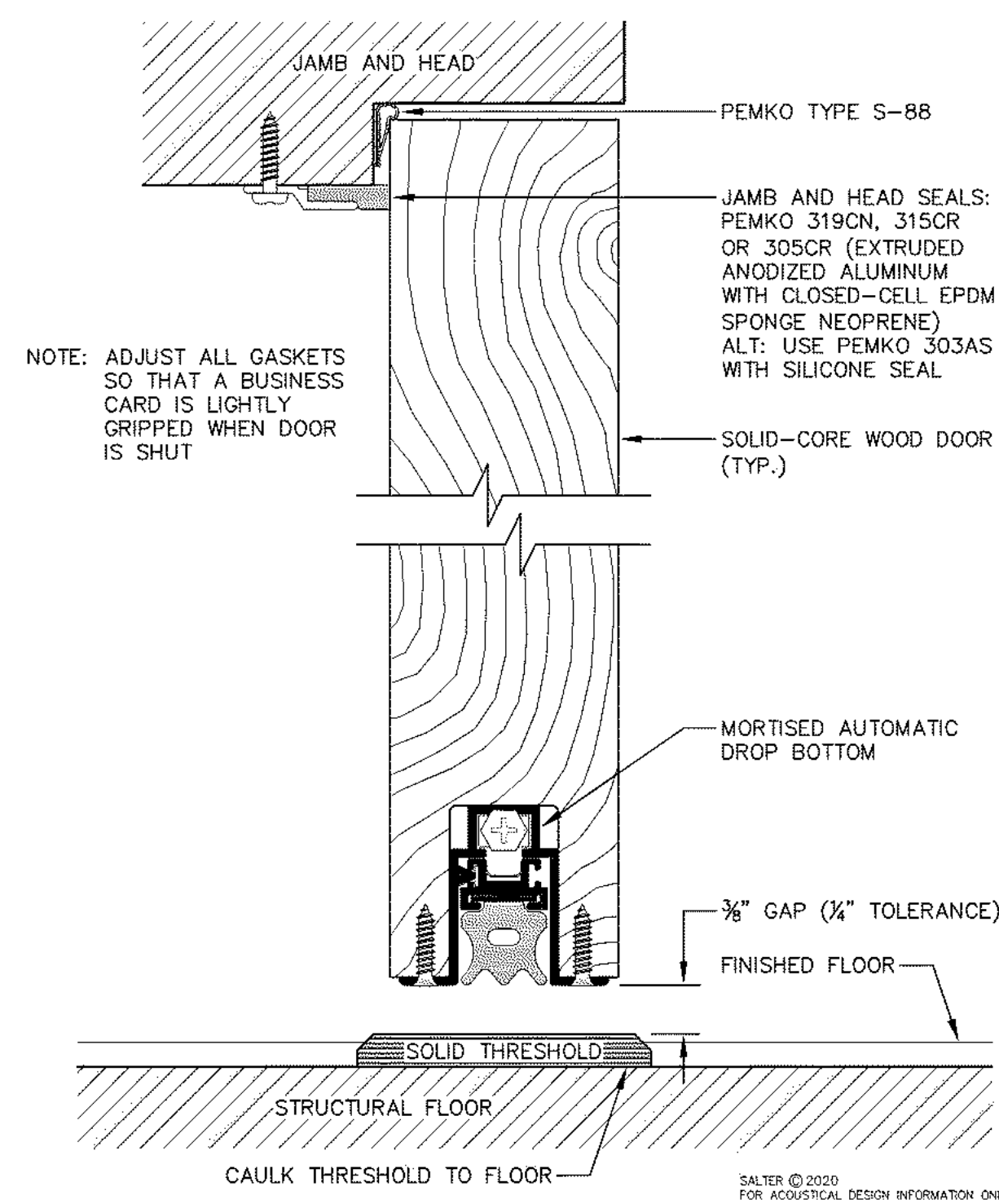
9 CONCEPTUAL RETURN AIR BOOT
A9.01 NOT TO SCALE



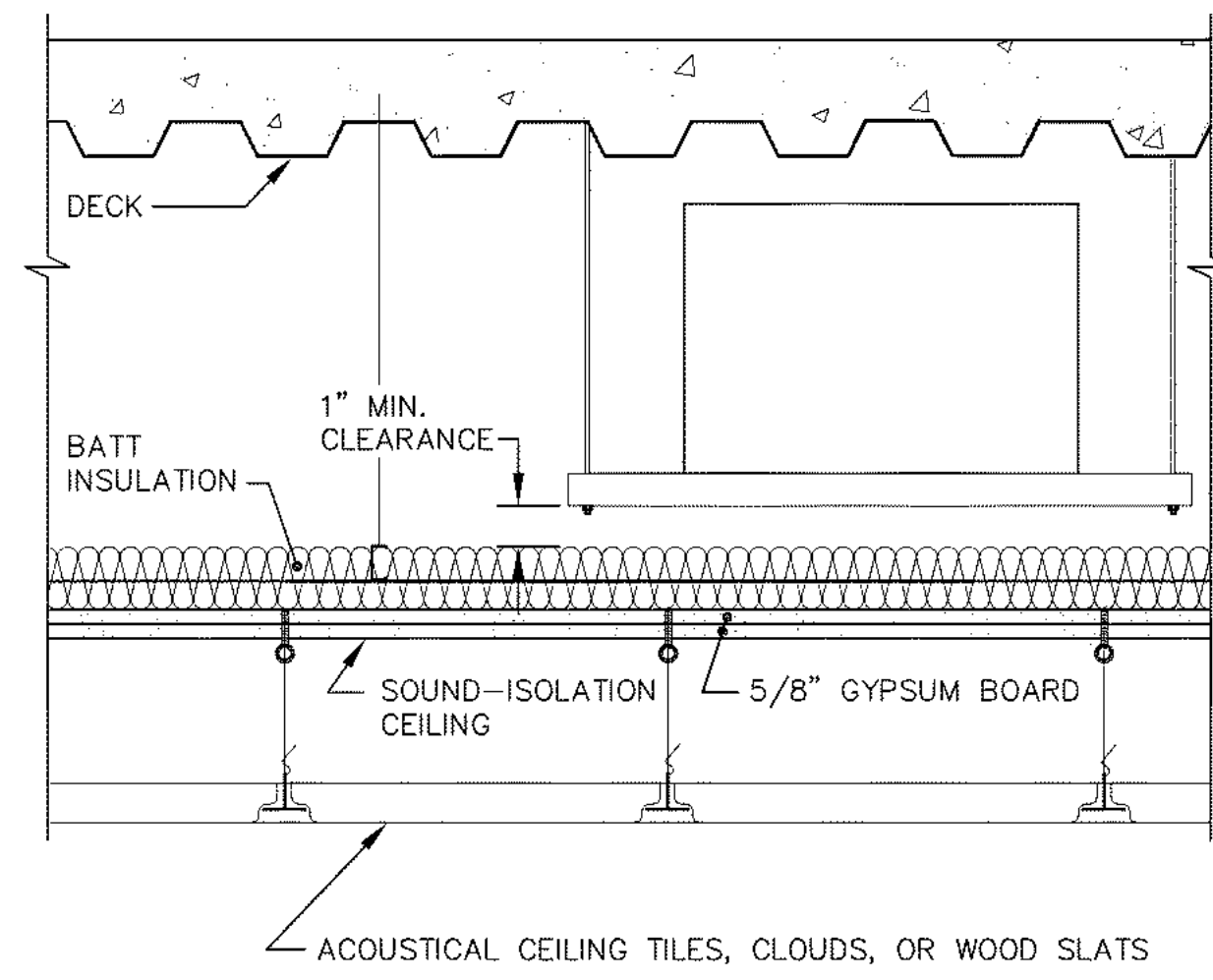
6 TYP. MULTIPLE PIPE/CONDUIT PENETRATION
A9.01 SCALE: 1 1/2\"/>



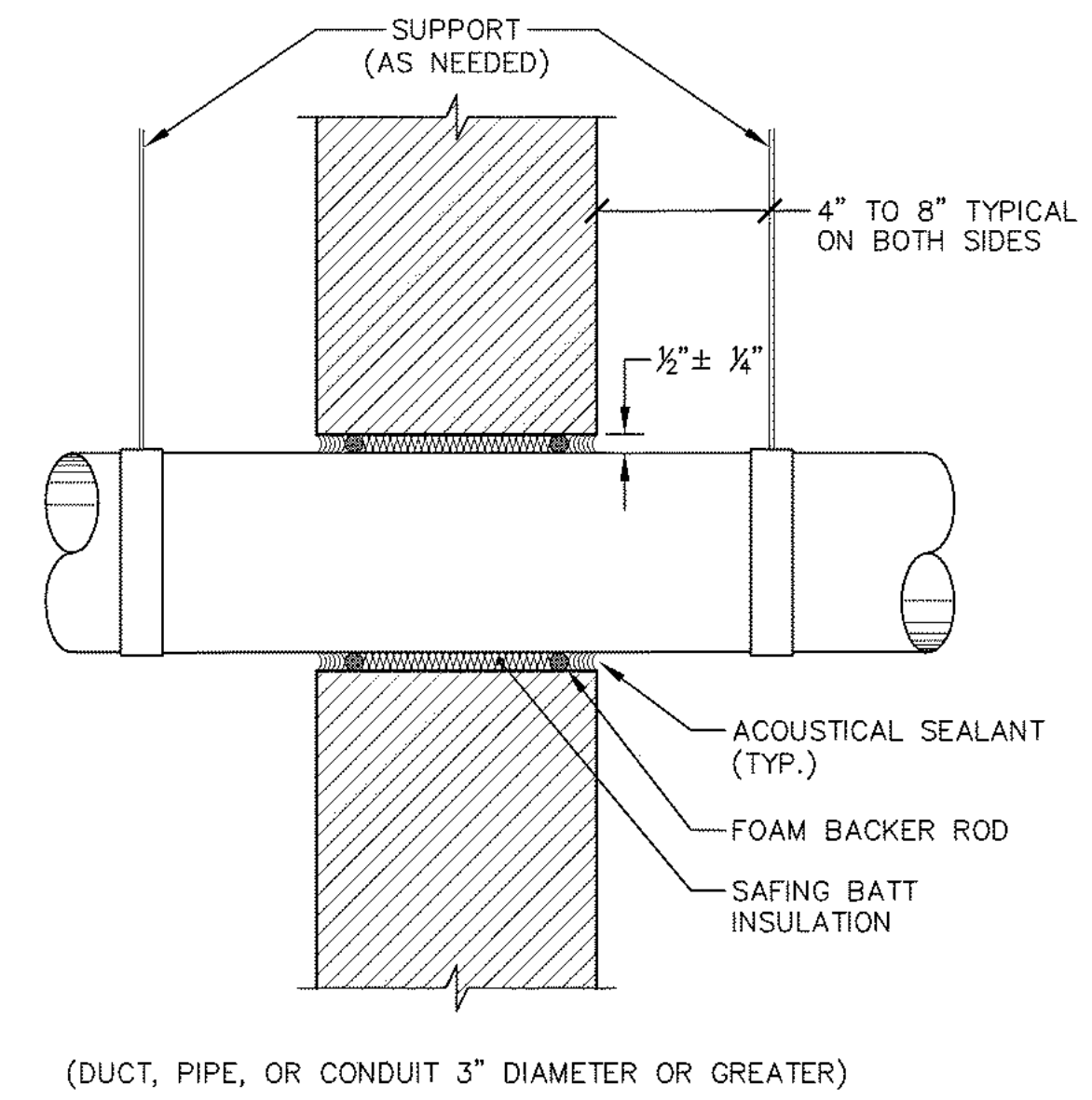
3 SOUND-RATED PARTITION AT DECK
A9.01 NOT TO SCALE



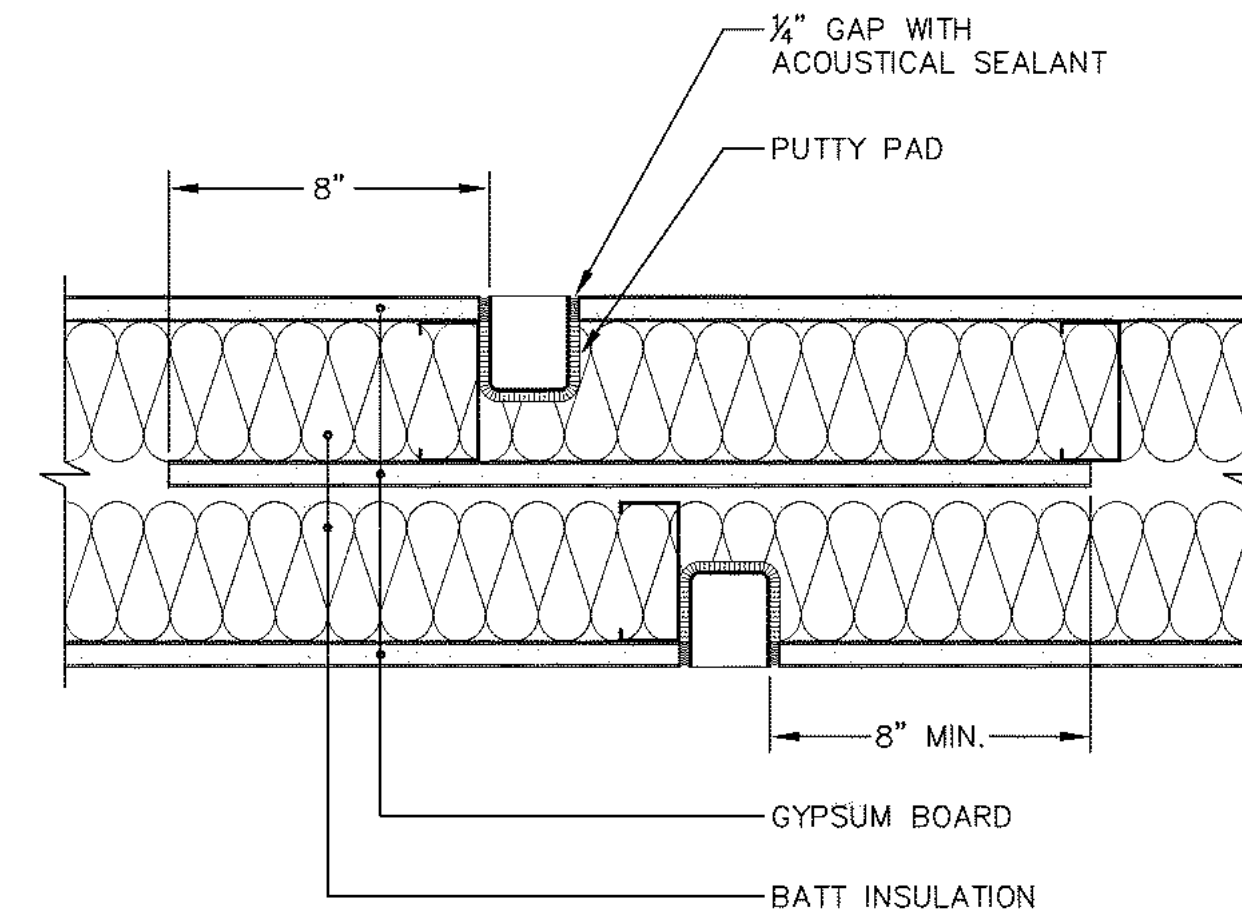
11 SOUND RATED CEILING
A9.01 NOT TO SCALE



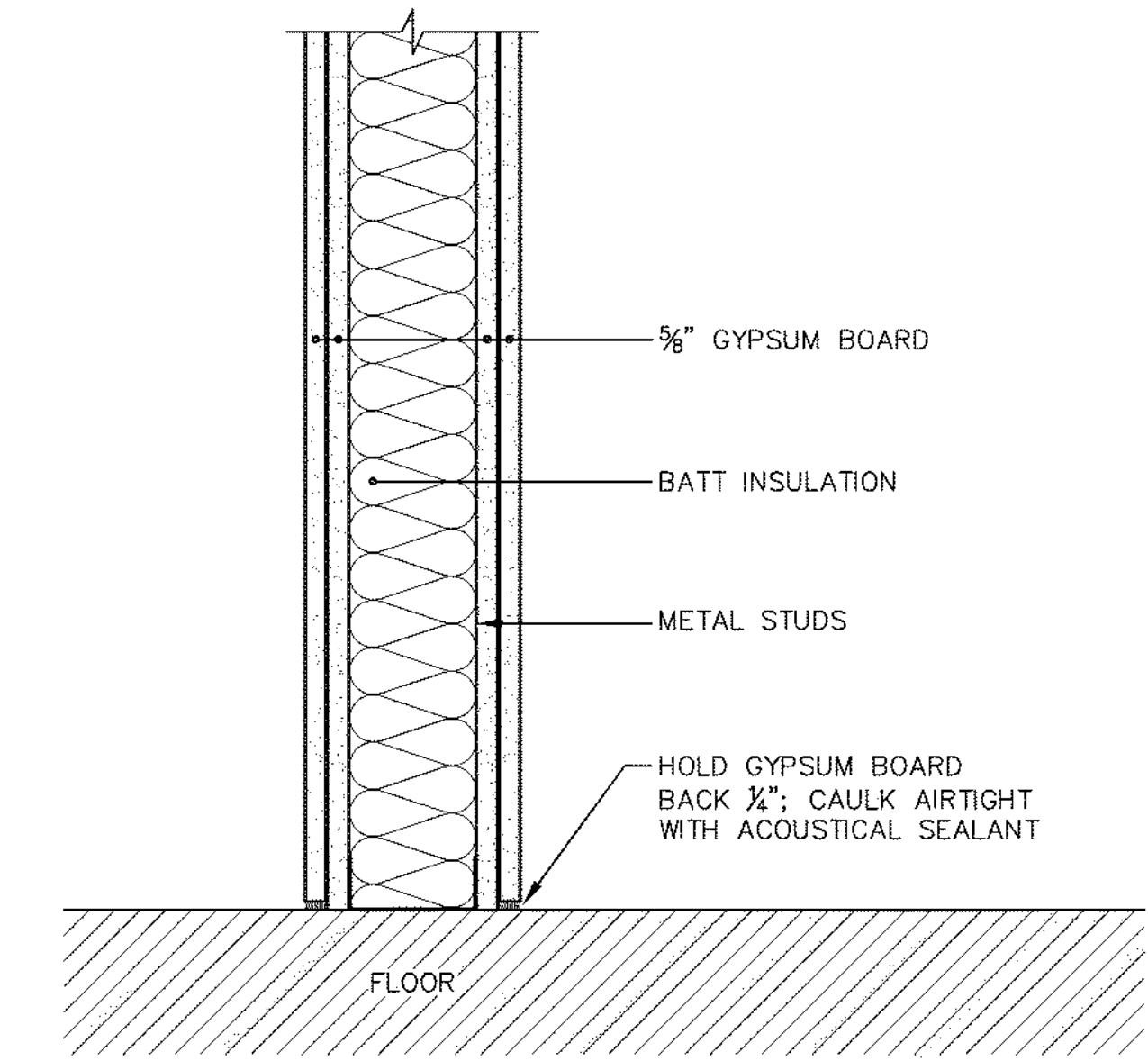
10 SOUND-ABSORBING SPACED WOOD SLATS
A9.01 NOT TO SCALE



8 TYP. LARGE PIPE/CONDUIT PENETRATION
A9.01 SCALE: 1 1/2\"/>

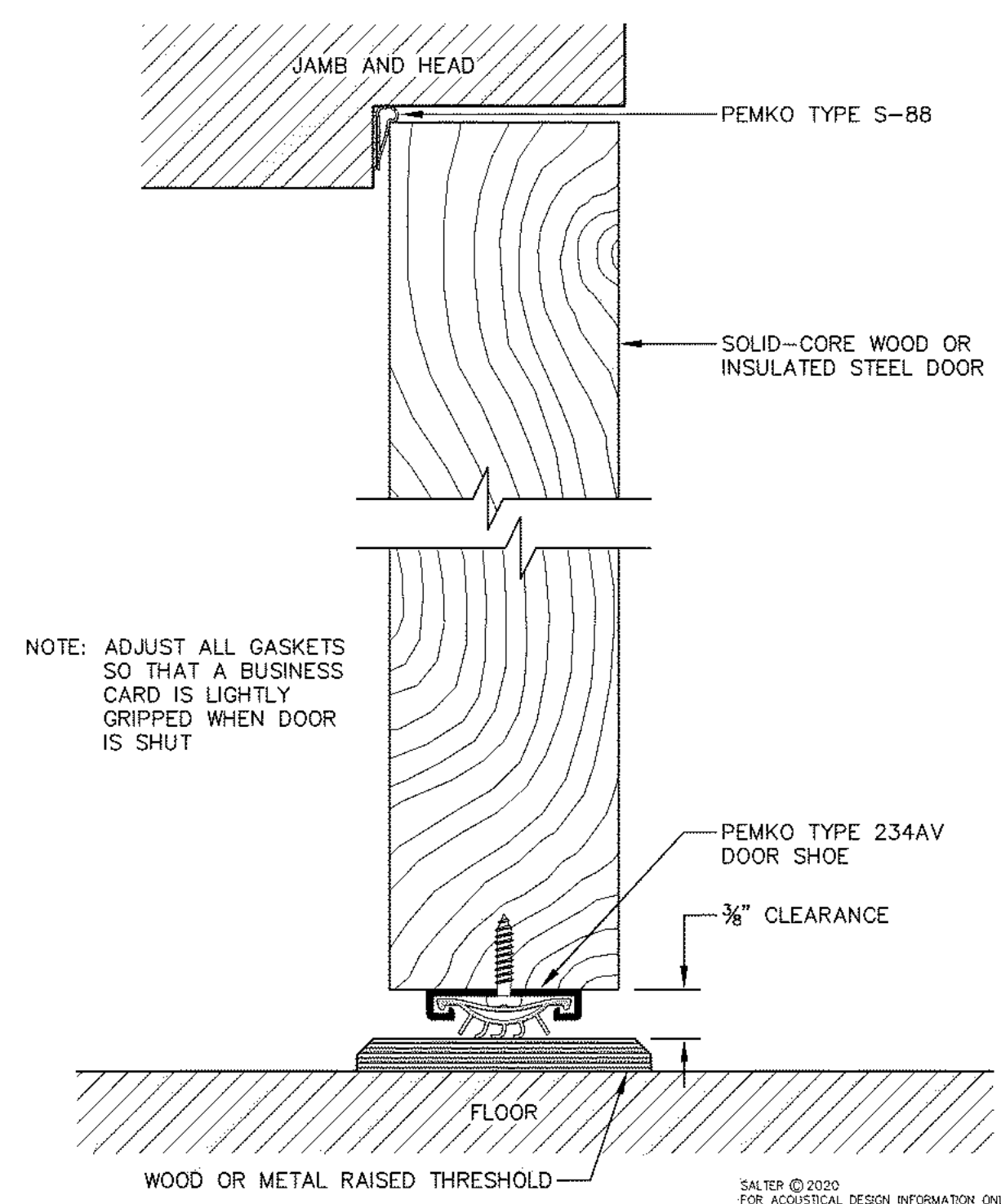


5 JUNCTION BOX ISOLATION
A9.01 SCALE: 1 1/2\"/>

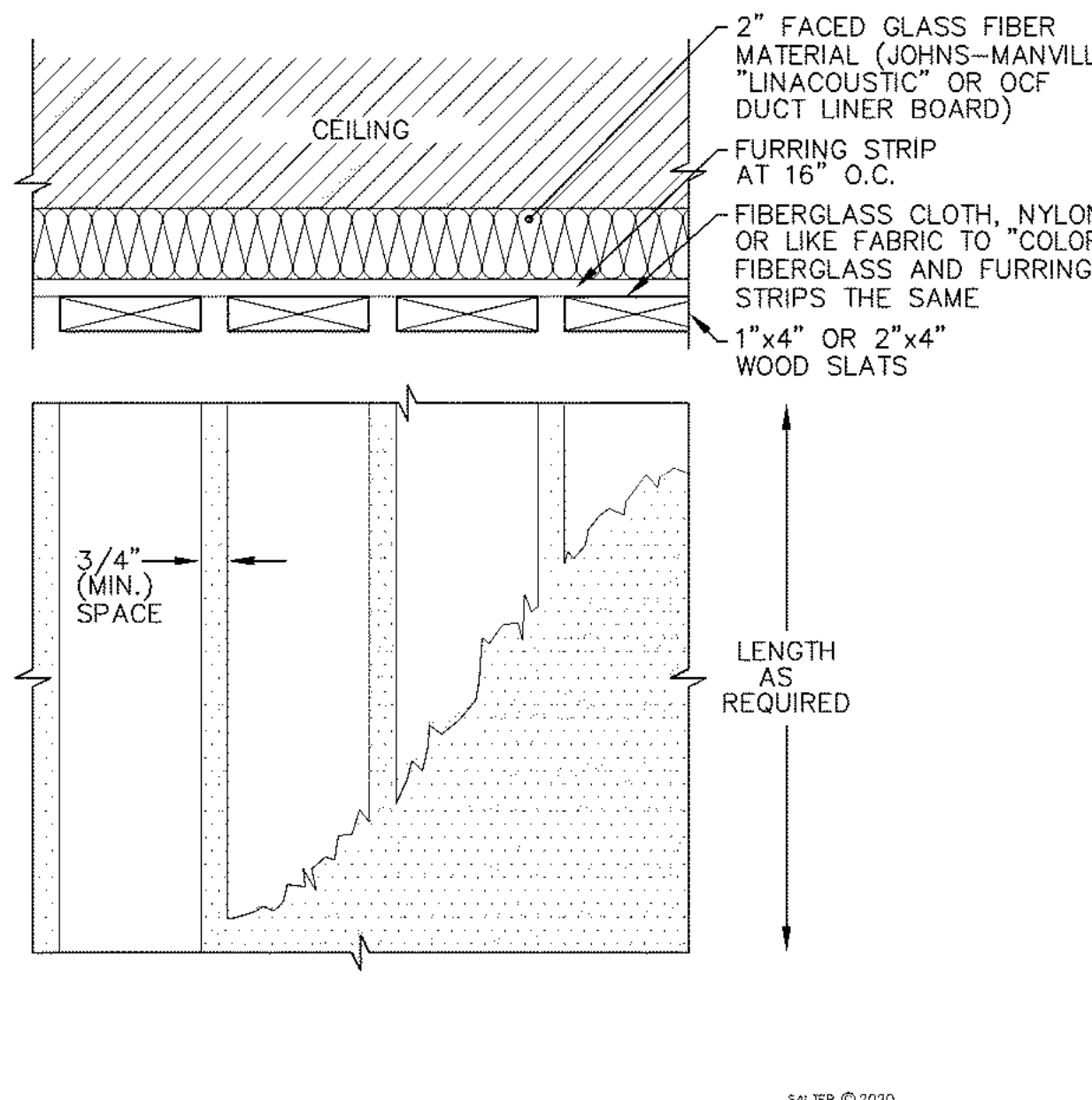


2 ACOUSTIC WALL TYPE C
A9.01 NOT TO SCALE

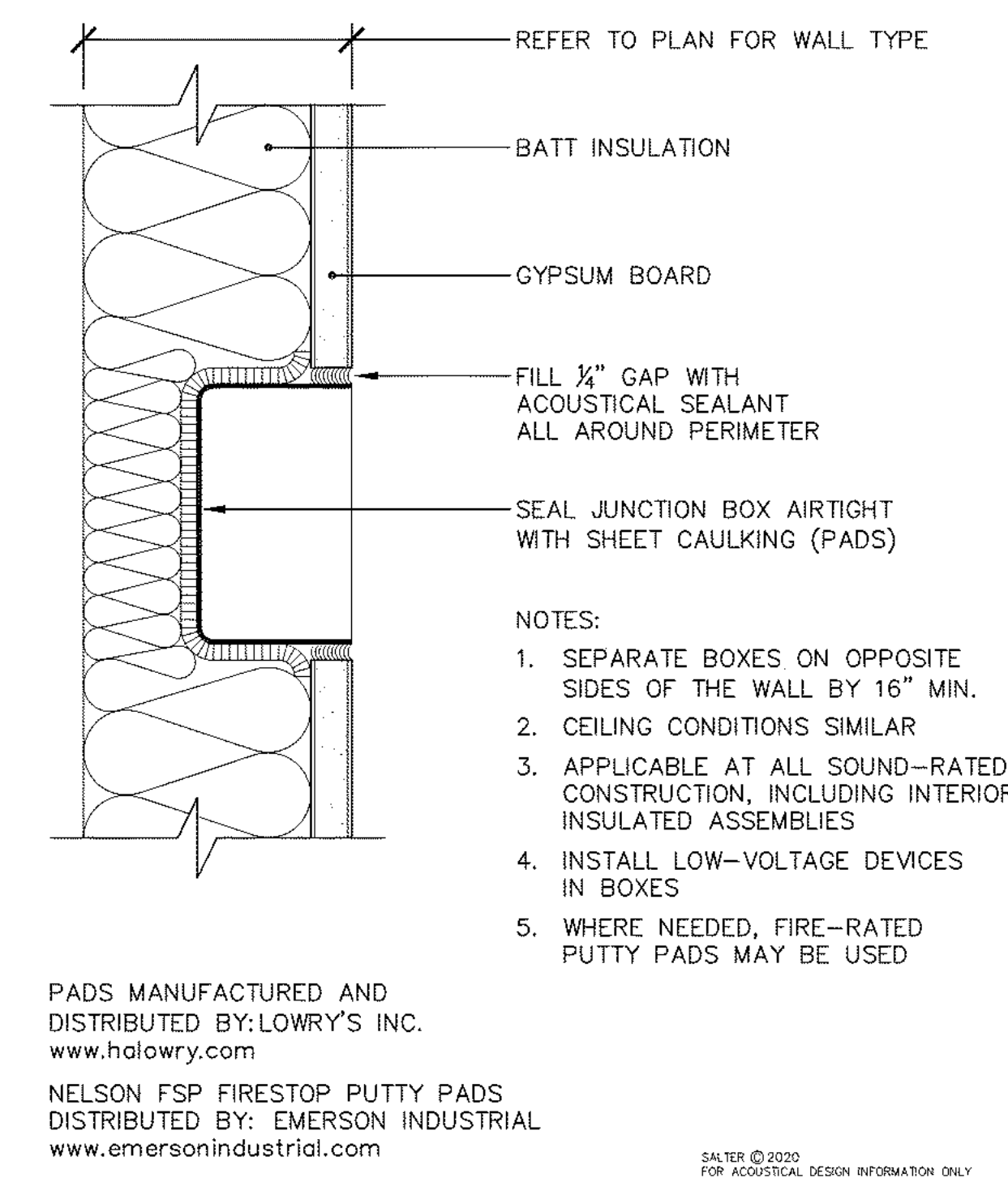
UPGRADED SOUND-GASKETED DOOR



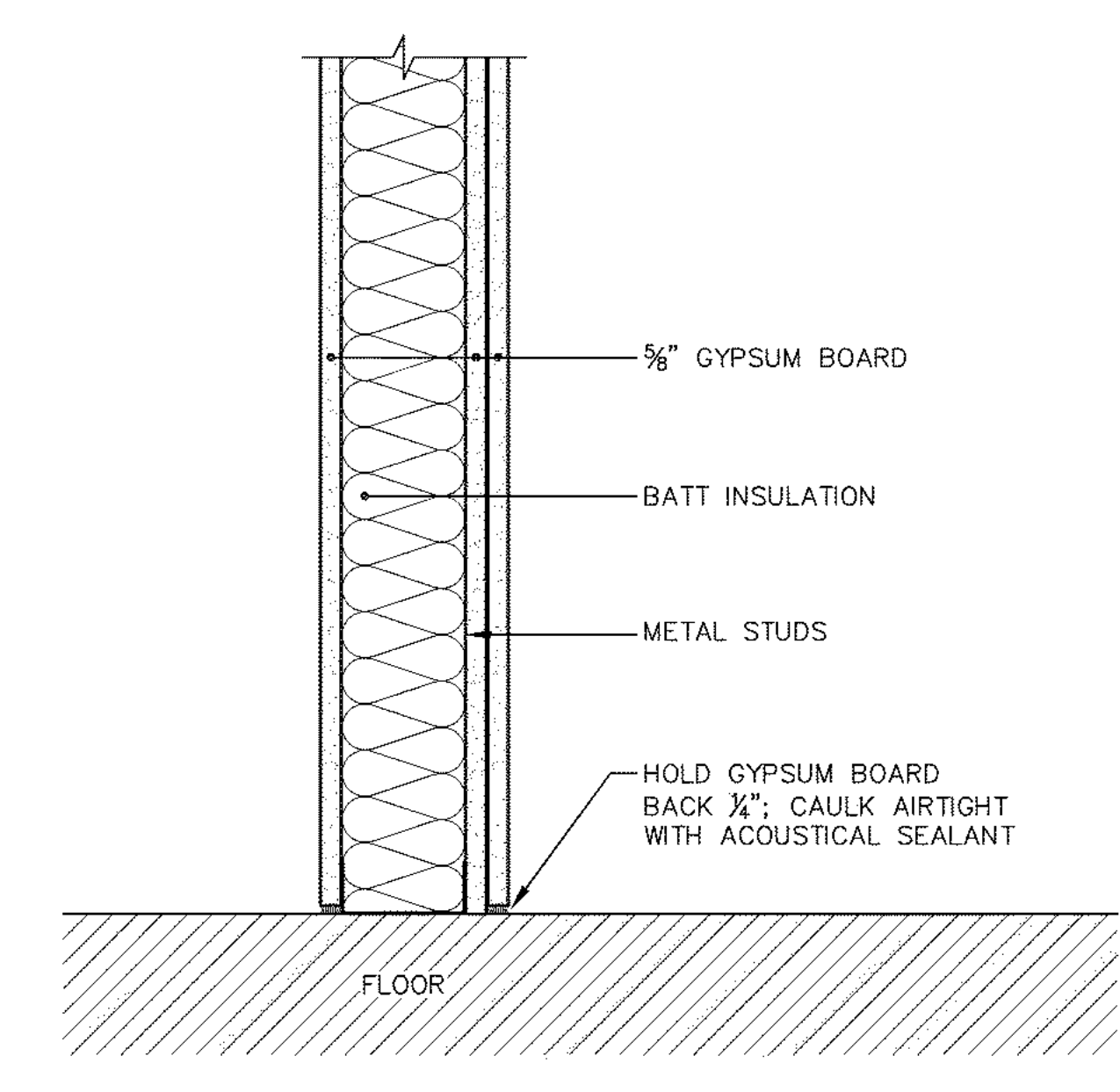
13 SOUND-GASKETED DOOR
A9.01 NOT TO SCALE



7 TYP. SMALL PIPE/CONDUIT PENETRATION
A9.01 SCALE: 1 1/2\"/>



4 JUNCTION BOX IN SOUND-RATED CONSTRUCTION
A9.01 NOT TO SCALE

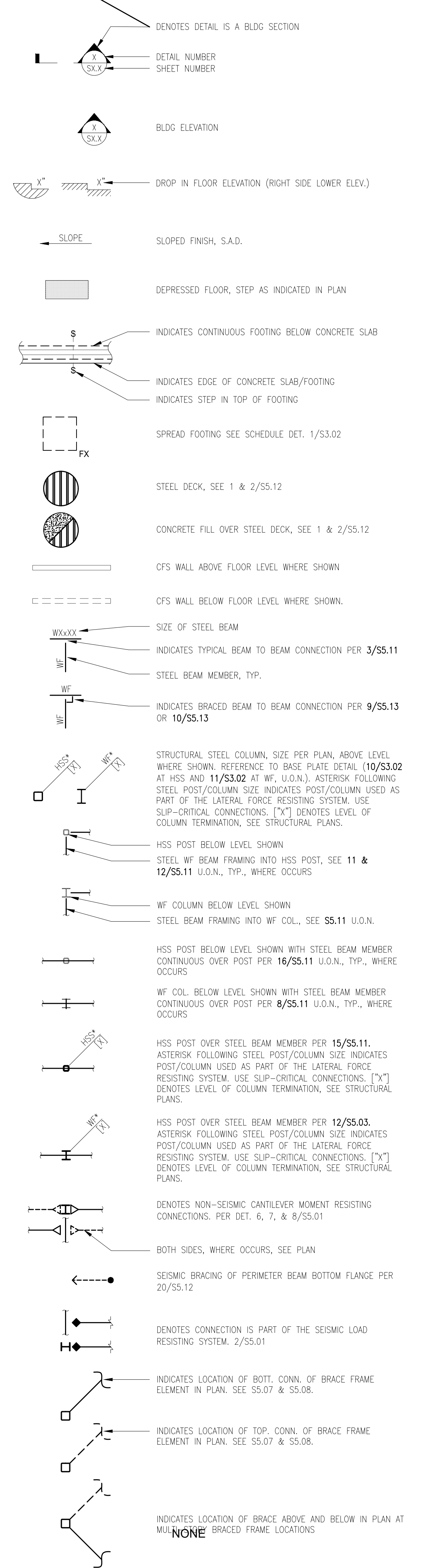


1 ACOUSTIC WALL TYPE B
A9.01 NOT TO SCALE



Table with 3 columns: Revisions and Description, Date. Contains a header row and several empty rows for revisions.

IX. SYMBOLS

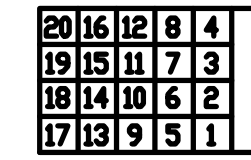


X. STRUCTURAL DRAWING LIST

Table listing drawing numbers (S0.11, S0.12, S2.11, S2.12, S2.21, S3.11, S3.12, S5.11, S5.12, S5.13, S5.21, S5.22) and their corresponding drawing titles.

VII. DETAIL NUMBERING:

THE BLOCKS ARE NOT DRAWN ON DETAIL SHEETS BUT THE NUMBERS MORE OR LESS CORRESPOND TO THE NUMBERING SYSTEM USED FOR DETAILS ON THE DRAWINGS.



WHERE MORE THAN ONE BLOCK AREA IS USED FOR A SINGLE DETAIL, THE NUMBER CORRESPONDING TO THE BLOCK AT THE BOTTOM RIGHT CORNER OF DETAIL SHALL BE USED. BLOCK POSITIONS MAY VARY SLIGHTLY.

VIII. ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THESE DRAWINGS TO DENOTE THE WORDS INDICATED.

I. GENERAL NOTES

- A. REFER TO SPECIFICATIONS ON SHEET S0.2. SPECIFICATIONS TAKE PRECEDENCE OVER THESE GENERAL NOTES IN THE EVENT OF CONFLICT.
B. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, SPECIFICATIONS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GENERAL CONTRACTOR...
C. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT...
D. DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT WITH THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK...
E. DIMENSIONING: THESE DOCUMENTS SHOULD BE CONSIDERED AS A PART OF THE COMPLETE DRAWING SET...
F. FINISHED FLOOR ELEVATION, FLOOR DEPRESSIONS, ELEVATIONS, IT IS INTENDED THAT SUFFICIENT INFORMATION IS PROVIDED TO DETERMINE THE ELEVATION OF PRIMARY STRUCTURAL MEMBER AND ELEMENTS AND/OR AT CHANGES IN SLOPE...
G. DETAILS AND NOTES SHOWN ON THESE DRAWINGS SHALL APPLY AT ALL APPROPRIATE LOCATIONS...
H. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF BLOCKOUTS, EMBEDDED ITEMS, OPENINGS, SLOPES, DRAINS, PADS, CURBS, ETC...
I. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO ALL STRUCTURAL FABRICATIONS...
J. THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS...
K. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN CONCRETE FOUNDATION, SLABS, BEAMS OR WALLS...
L. THE USE OF NEW CONSTRUCTION FOR THE SUPPORT/STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE DESIGN CONSTRUCTION AT THE TIME IT IS TO BE USED...
M. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2019 EDITION AS AMENDED BY THE CITY OF CUPERTINO AND ALL THE STANDARDS REFERENCED THEREIN...

II. MEANS AND METHODS

- A. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INCLUDE THE MEANS, METHODS, PROCEDURES OR SEQUENCES OF CONSTRUCTION, MAINTAINING AND ENSURING THE INTEGRITY OF THE STRUCTURE AND SAFETY OF PERSONNEL THROUGHOUT THE CONSTRUCTION PERIOD IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR...

III. DEMOLITION, SHORING AND TEMPORARY LATERAL BRACING

- A. SAFETY OF PERSONNEL AND PROPERTY DURING ANY DEMOLITION WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE DEMOLITION BEGINS, THE CONTRACTOR SHALL INSPECT EXISTING CONSTRUCTION TO IDENTIFY DEFECTS AND STRUCTURAL WEAKNESSES WHICH MAY AFFECT THE CONSTRUCTION SAFETY...
B. THE CONTRACTOR SHALL REVIEW THE NEED FOR TEMPORARY SHORING AND BRACING PRIOR TO DEMOLITION OR ERECTION OF WALLS, FLOORS, ROOFS, ETC. NOTES REFERRING TO SHORING ON DRAWINGS DO NOT INCLUDE ALL SHORING NECESSARY TO SAFELY COMPLETE THE WORK.

IV. HAZARDOUS MATERIALS IN EXISTING CONSTRUCTION

- DAEDALUS ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF HAZARDOUS MATERIALS THAT MAY BE ON THE SITE OR WITHIN EXISTING BUILDINGS.
A. DAEDALUS HAS NOT PERFORMED INVESTIGATIONS TO DETERMINE THE PRESENCE OF HAZARDOUS MATERIALS. THE OWNER WILL PROVIDE THE RESULTS OF SUCH INVESTIGATIONS IF THEY HAVE BEEN PERFORMED.

- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM EXPOSURE TO HAZARDOUS MATERIALS. IF HAZARDOUS MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND CEASE WORK UNTIL CONDITIONS CAN BE MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

V. SUBMITTALS

- A. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF CONSTRUCTION:
a. REINFORCING STEEL MATERIAL TEST REPORTS
b. REINFORCING STEEL SHOP DRAWINGS
c. CONCRETE MIX DESIGN FOR EACH CLASS OF CONCRETE WHICH SHALL INCLUDE:
i. LABORATORY TEST REPORT FOR CONCRETE MIXES
ii. MATERIAL CERTIFICATES FOR CONCRETE MATERIALS, INCLUDING CEMENTS, AGGREGATES, AND ADMIXTURES
iii. PRODUCT DATA FOR PROPRIETARY MATERIALS AND ITEMS
d. STRUCTURAL STEEL SHOP DRAWINGS
e. WELDING PROCEDURE SPECIFICATION

VI. QUALITY ASSURANCE

- A. THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS, ACCEPTABLE TO THE ENFORCEMENT AGENCY AND TO PERFORM INSPECTIONS IN ACCORDANCE WITH SECTIONS 104.4, 110, AND CHAPTER 17 OF THE CBC. THE ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLLOWING:

- 1. ENGINEERED FILL
2. STRUCTURAL EXCAVATION
3. CONCRETE REINFORCING STEEL PLACEMENT
4. CONCRETE PLACEMENT
5. STRUCTURAL STEEL WELDING
6. STRUCTURAL STEEL HIGH STRENGTH BOLTING
7. WOOD FRAMING (HOLD DOWN, TIE DOWN AND ALL OTHER SEISMIC CONNECTORS)
8. PLYWOOD NAILING - PERIODIC, WHERE NAIL SPACING IS 4" OR SMALLER
9. INSTALLATION & TESTING OF EXPANSION ANCHORS & ANCHORS IN CHEMICAL ADHESIVE.

- B. SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS. INSPECTORS WILL THOROUGHLY REVIEW APPLICABLE PORTIONS OF THE CONSTRUCTION DOCUMENTS. INSPECTORS WILL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY CBC SECTIONS 104.4, 110, AND CHAPTER 17.

- C. THE STRUCTURAL ENGINEER WILL PERIODICALLY REVIEW THE PROGRESS OF THE WORK FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. HOWEVER, THIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER FOR STRUCTURAL OBSERVATIONS OF THE FOLLOWING ITEMS AT LEAST 48 HOURS PRIOR TO PROCEEDING WITH WORK THAT WOULD PREVENT OBSERVATION, UNLESS OTHERWISE NOTED.
1. FOUNDATION EXCAVATIONS AND REINFORCING STEEL PLACEMENT (PRIOR TO CONCRETE PLACEMENT)
2. REINFORCING STEEL FOR MASONRY WALLS (PRIOR TO PLACEMENT OF MASONRY BLOCKS)
3. WOOD FRAMED WALLS (PRIOR TO INSTALLING PLYWOOD OR FINISHES ON THE SECOND SIDE)
4. THE COMPLETE STRUCTURAL SYSTEMS (PRIOR TO INSTALLING ARCHITECTURAL FINISHES)

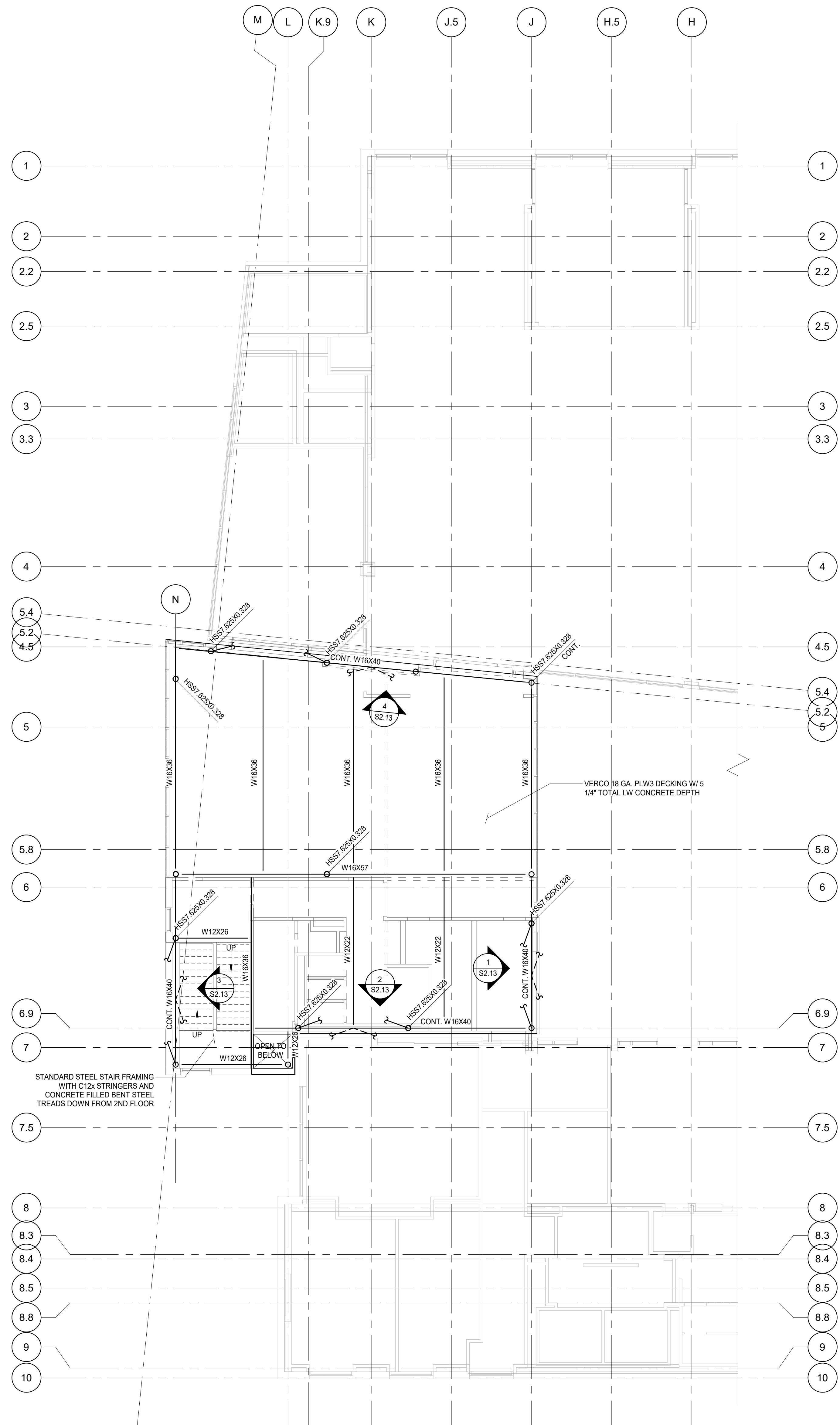
- D. THE GEOTECHNICAL ENGINEER OF RECORD WILL OBSERVE ALL PAD CONSTRUCTION, PLACEMENT/COMPACTION OF ENGINEERED FILL, BOTTOM OF FOUNDATION EXCAVATION, JUST PRIOR TO CONCRETE PLACEMENT AND PIER EXCAVATIONS DURING DRILLING TO VERIFY COMPLIANCE WITH THE INTENT OF THE GEOTECHNICAL INVESTIGATION.

FRAMING PLAN NOTES:

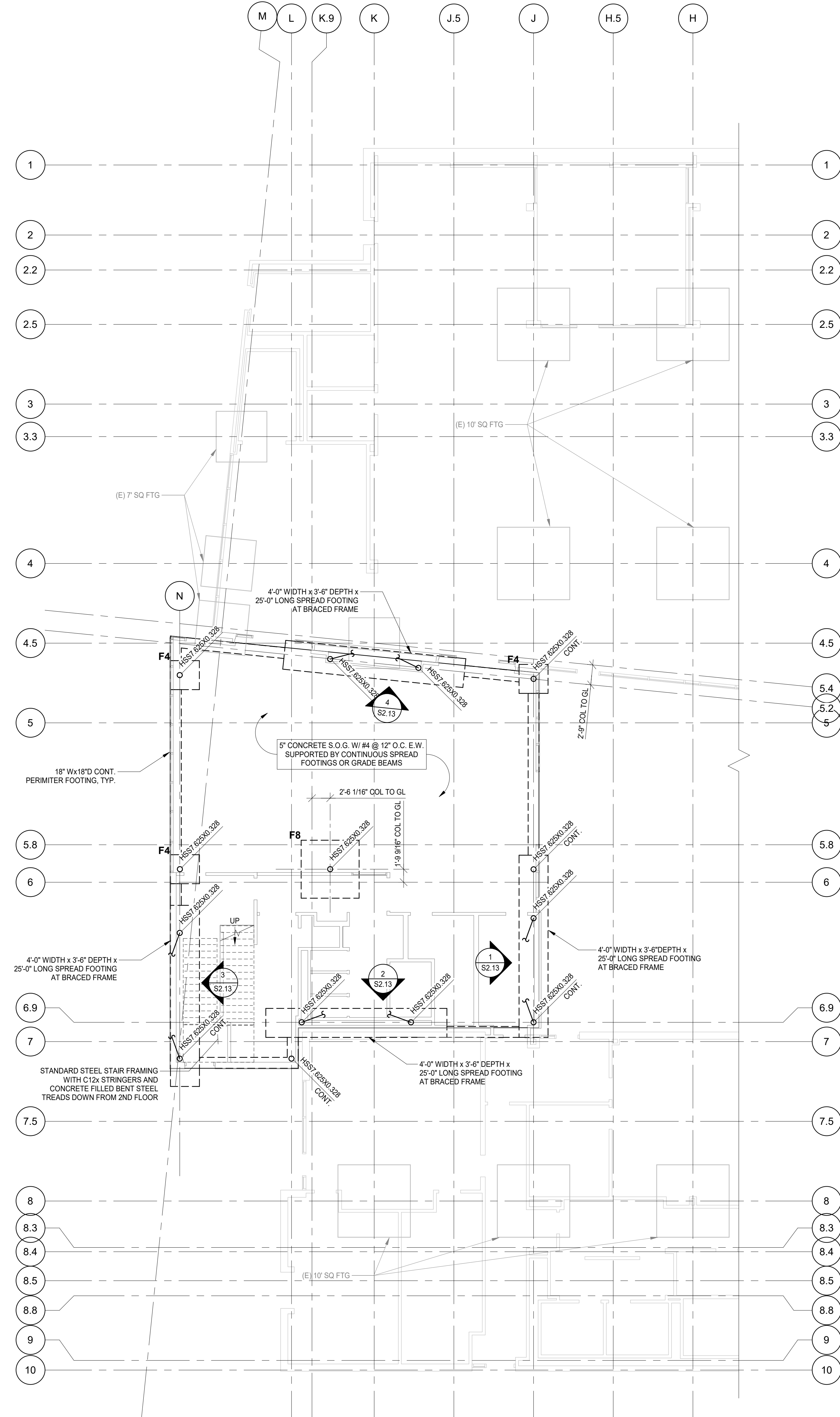
- SEE SHEET S2.12 FOR FRAMING PLAN NOTES

FOUNDATION PLAN NOTES:

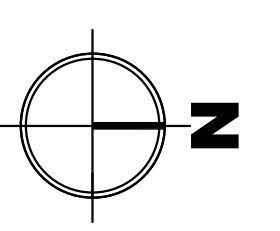
- SEE SHEET S1.12 FOR FOUNDATION PLAN NOTES



2 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"



1 LEVEL 1 FRAMING PLAN
1/8" = 1'-0"

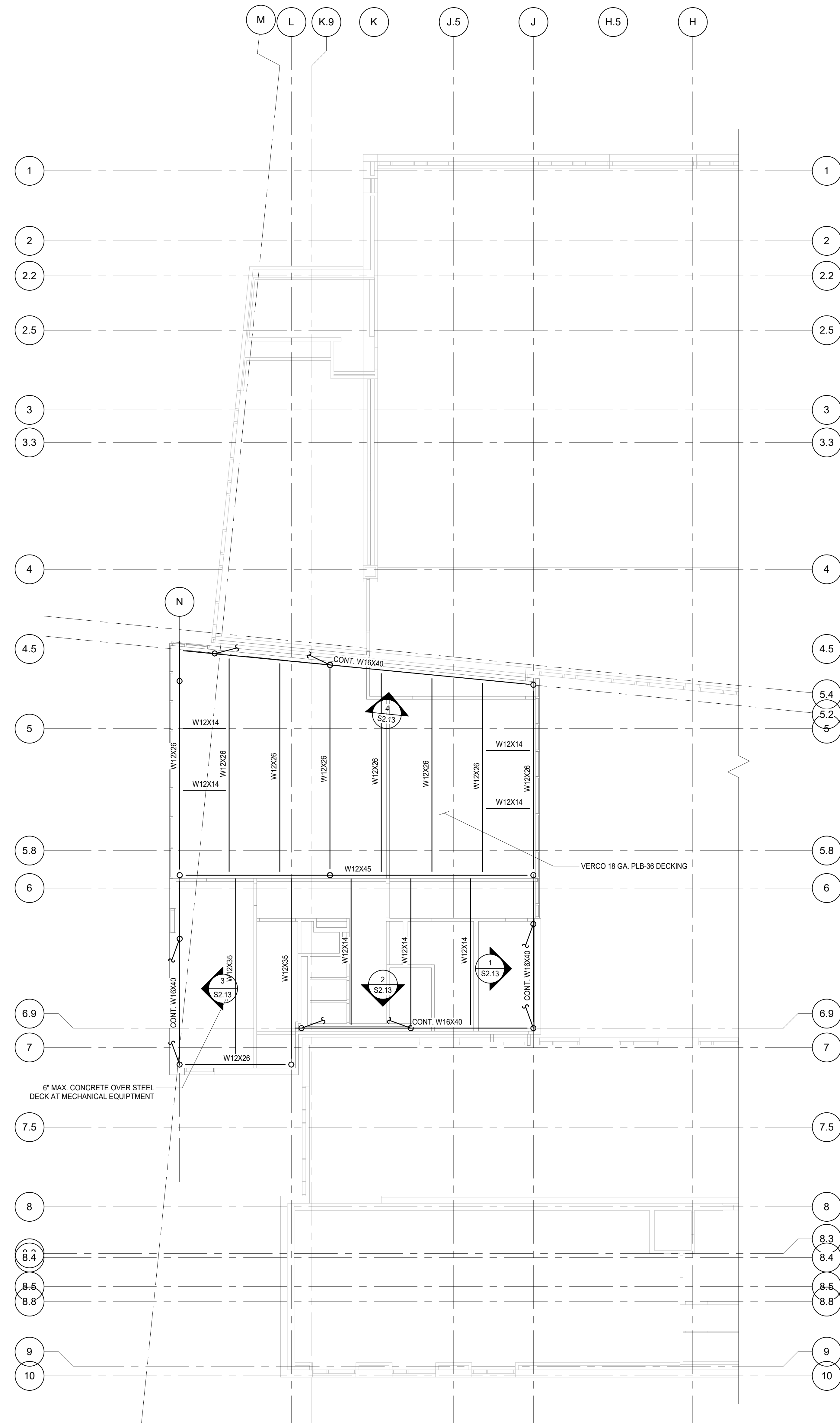


FRAMING PLAN NOTES:

- SEE GENERAL NOTES AND DETAILS ON SHEETS S0.01 AND S0.02.
- SEE DRAWING OTHER THAN STRUCTURAL FOR FLOOR DEPRESSIONS, MECHANICAL, ELECTRICAL, AND SHAFT OPENINGS, ETC.
- SEE DETAIL 20/SS.01 FOR ALLOWABLE HOLE PENETRATIONS THROUGH FRAMING MEMBERS.
- SEE S5 STRUCTURAL SHEETS FOR TYPICAL STEEL AND CONNECTION DETAILS.
- SEE S5.02 FOR DECK DETAILING REQUIREMENTS.
- T.O. STL =
- AND/OR DENOTE STEP IN DECK ELEVATION AND/OR SLAB TYPE, PER PLAN.
- SHEAR STUD IS 3/4" DIA. AT 12" SPC'G. TYP. ALL BEAMS, U.O.N. ON PLAN BY [XX], IN WHICH "XX" DENOTES NUMBER OF STUDS REQ'D AND INDICATES THAT THE BEAM IS REQUIRES MORE STUDS THAN THE 12" O.C. SPACING PROVIDES.
- (C-X) DENOTES BEAM CAMBER AT MIDSPAN.
- ALL PERIMETER BEAMS TO BE BRACED AT 10'-0" O.C. SEE 16A/SS.02, NON SEISMIC CONN. TYP. U.O.N. ON PLAN, SEE NOTE 10.
- WHERE DENOTED: BRACE BOT. FLANGE OF PERIMETER BEAM PER 20/SS.12, SEISMIC CONN.
- WHERE DENOTED: BEAM IS PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE LEGEND S0.01.
- WHERE DENOTED: FRAMING IS PART OF THE SEISMIC LATERAL FORCE RESISTING SYSTEM. SEE SHEET S2.13 FOR ADDL INFORMATION.
- ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES POST/COLUMN USED AS PART OF THE LATERAL FORCE RESISTING SYSTEM SEE S0.01 FOR ADDL REQUIREMENTS.
- SEE S5.09 & S5.10 STRUCTURAL SHEETS FOR TYPICAL COLD-FORMED STEEL DETAILS. GC TO COORDINATE WITH SUBCONTRACTOR ON DETAILING.

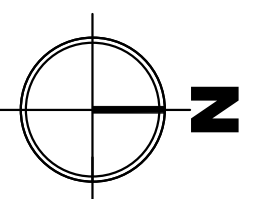
FOUNDATION PLAN NOTES:

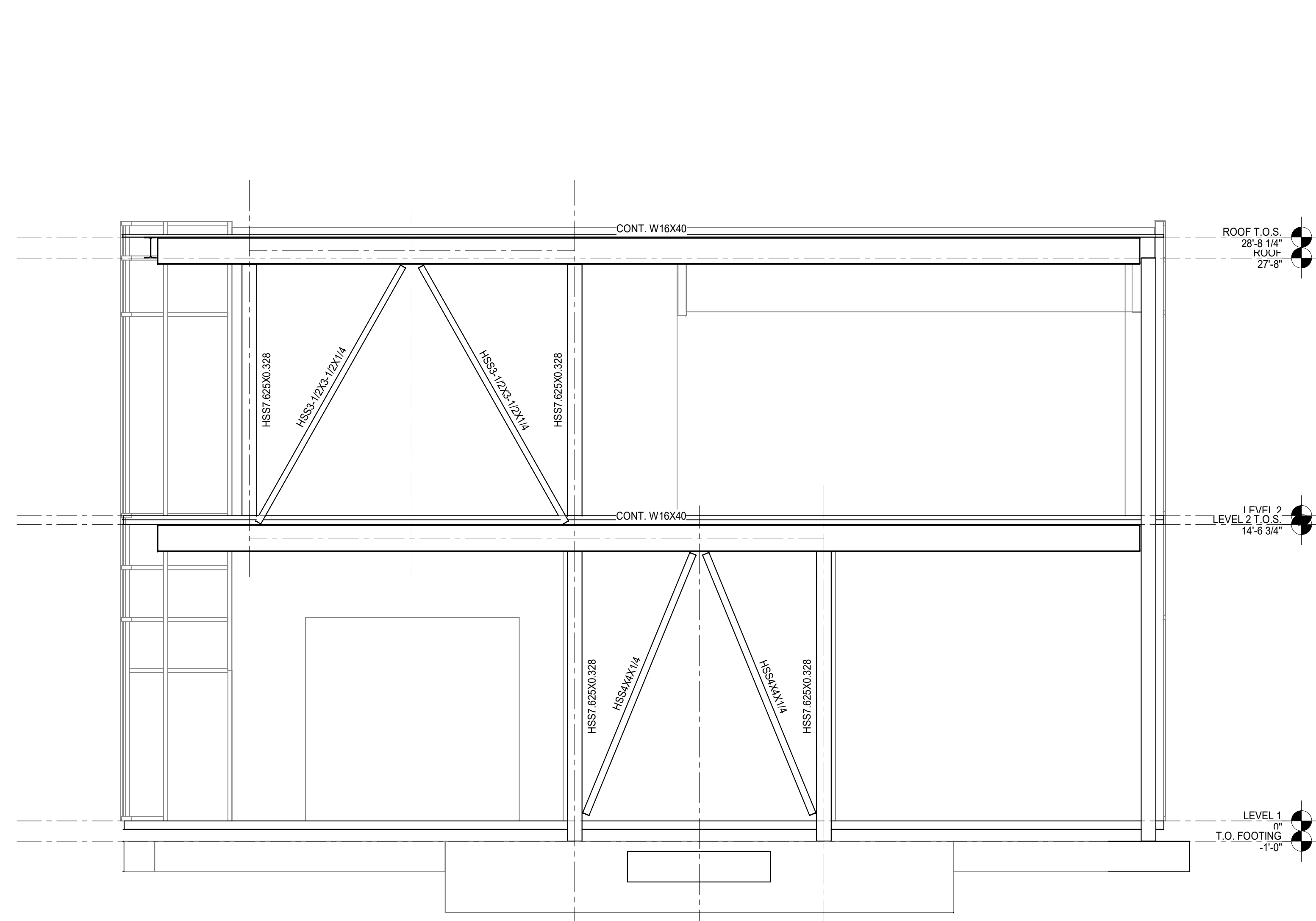
- SEE GENERAL NOTES AND DETAILS ON SHEET S0.11 AND S0.12.
- SEE ARCHITECTURAL PLANS FOR ACTUAL FINISH FLOOR AND PAD ELEVATIONS.
- EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINES REQUIRED BY THE FOOTING. NO MATERIAL IS TO BE OVER-EXCAVATED UNNECESSARILY.
- VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
- FOR DRAINAGE DETAILS, SLUMPS, PITS, DAMPROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, DIMENSIONS NOT SHOWN, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
- SETBACK CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO TRENCHING AND FORMING FOUNDATION. THE FOUNDATION SUBCONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, SURVEYOR AND THE ARCHITECT.
- GEOTECHNICAL ENGINEER SHALL BE RETAINED TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION, AND THAT INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.
- IF NON-NATIVE FILL, EXPANSIVE CLAY OR SOFT/LOOSE SOIL IS ENCOUNTERED AT THE BASE OF STEPPED FOUNDATION, THAT THE SOIL WILL BE REMOVED (OVER-EXCAVATED) AND REPLACED WITH EITHER COMPACTED AGGREGATE BASE/ROCK OR LEAN CONCRETE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- T.O. FOOTING IS MIN. [0'-6"] BELOW TOP OF SLAB, U.O.N. ON PLAN.
- WHERE DENOTED: T.O. FTG IS [0'-6"] BELOW TOP OF SLAB, TYP. SEE 1/SS.XX FOR FOOTING SCHEDULE.
- COLUMN SIZE PER PLAN, WHERE [XX] THE FOLLOWING DENOTES:
[2] = TOP OF COLUMN TERMINATES AT 2ND FL T.O.S.
[R] = TOP COLUMN TERMINATES AT ROOF T.O.S.
- WHERE DENOTED: FRAMING IS PART OF THE LFRS. SEE SHEETS S2.13 FOR ADDL INFORMATION.
- ASTERISK FOLLOWING STEEL POST/COLUMN SIZE INDICATES POST/COLUMN USED AS PART OF THE LATERAL FORCE RESISTING SYSTEM SEE S0.11 FOR ADDL REQUIREMENTS.



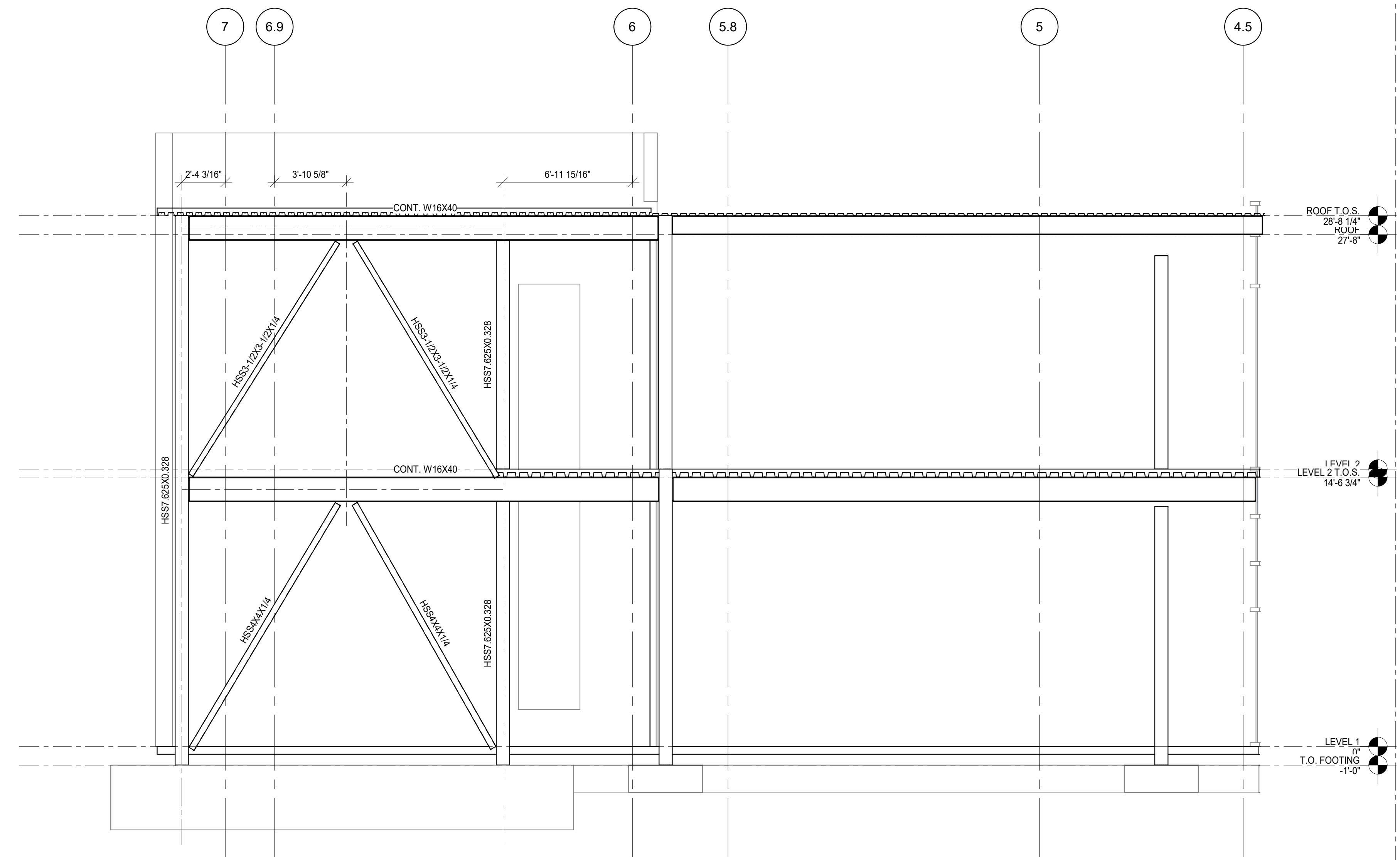
ROOF FRAMING PLAN

1/8" = 1'-0"

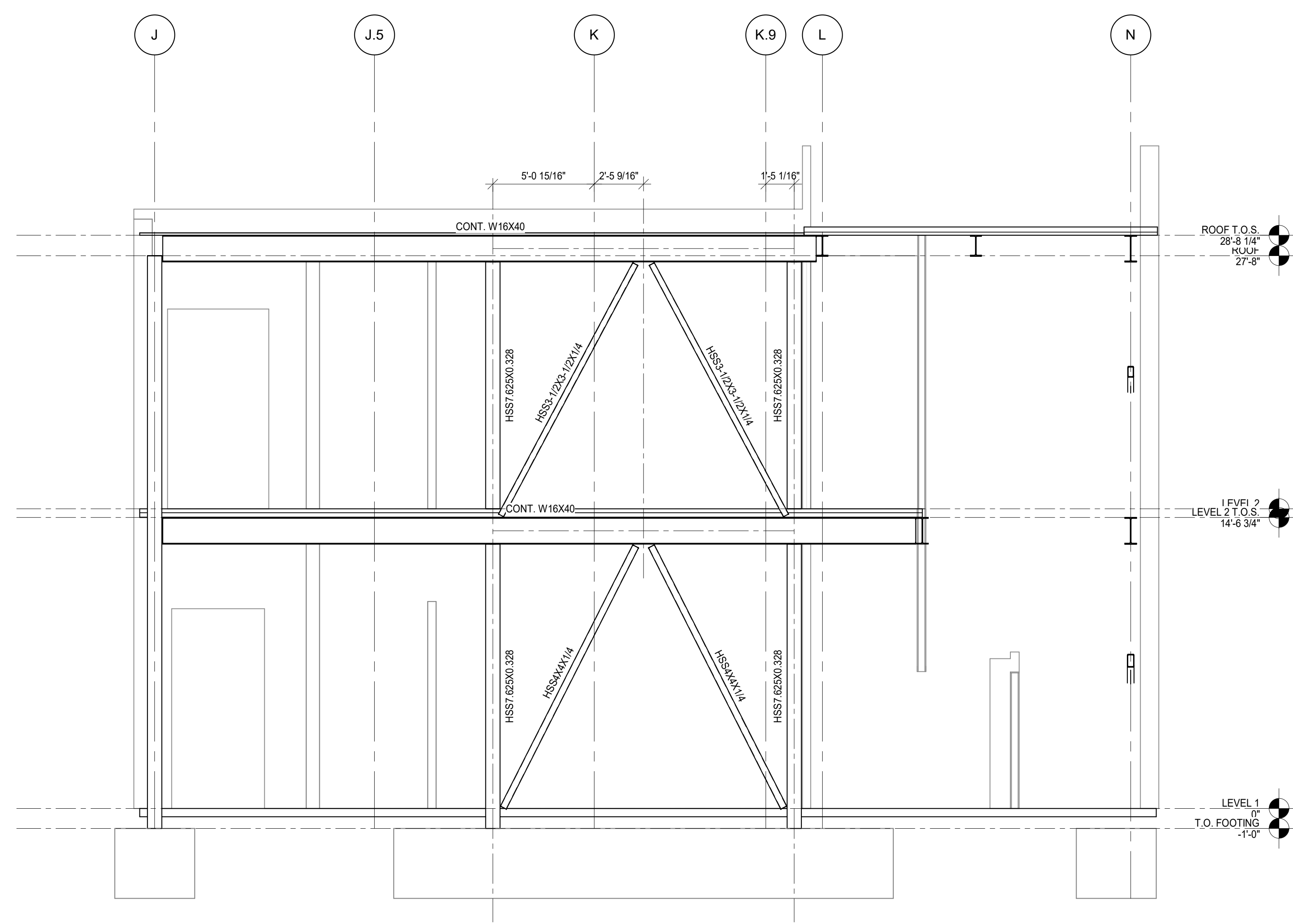




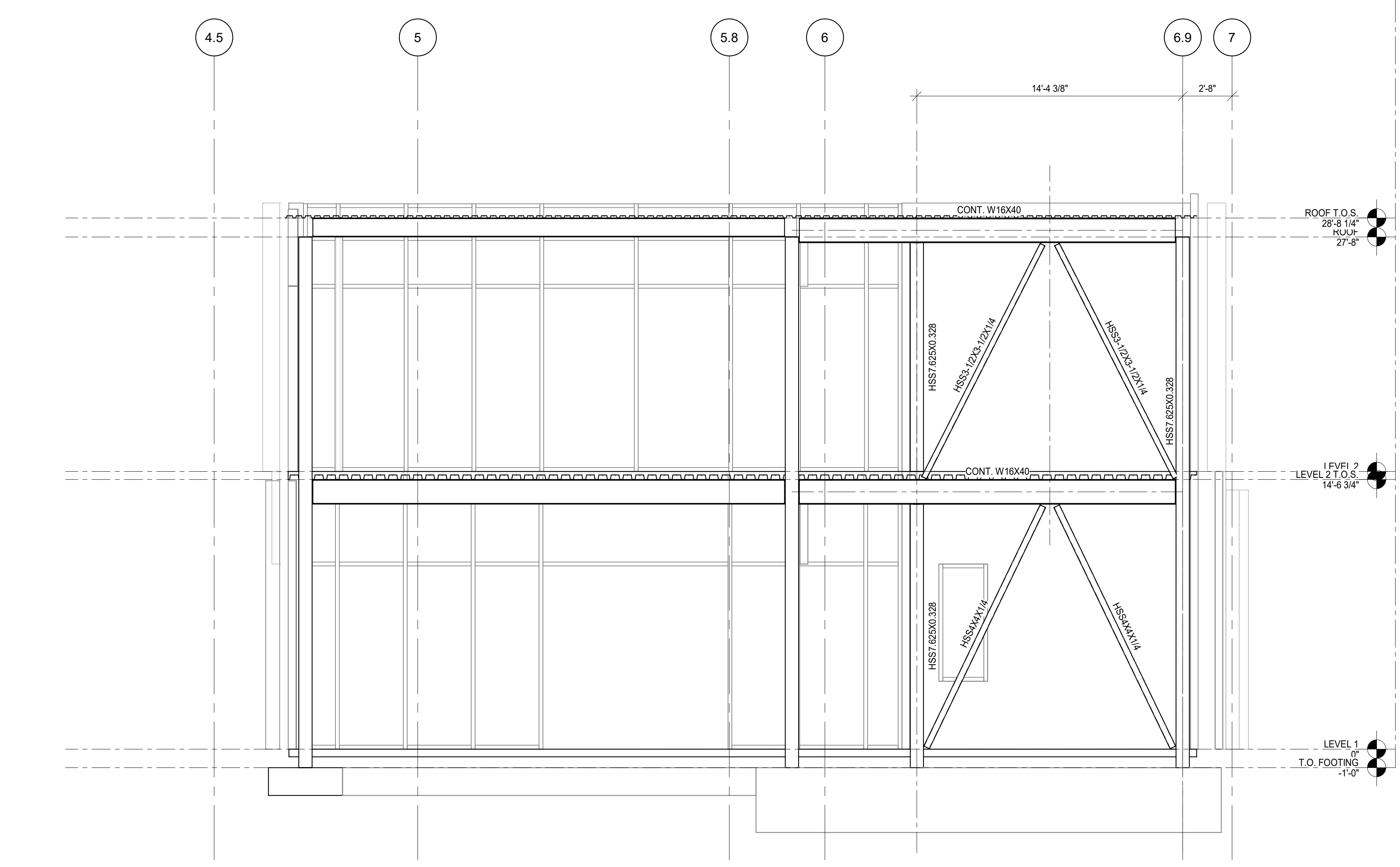
4 WEST BF ELEVATION
1/4" = 1'-0"



3 SOUTH BF ELEVATION
1/4" = 1'-0"

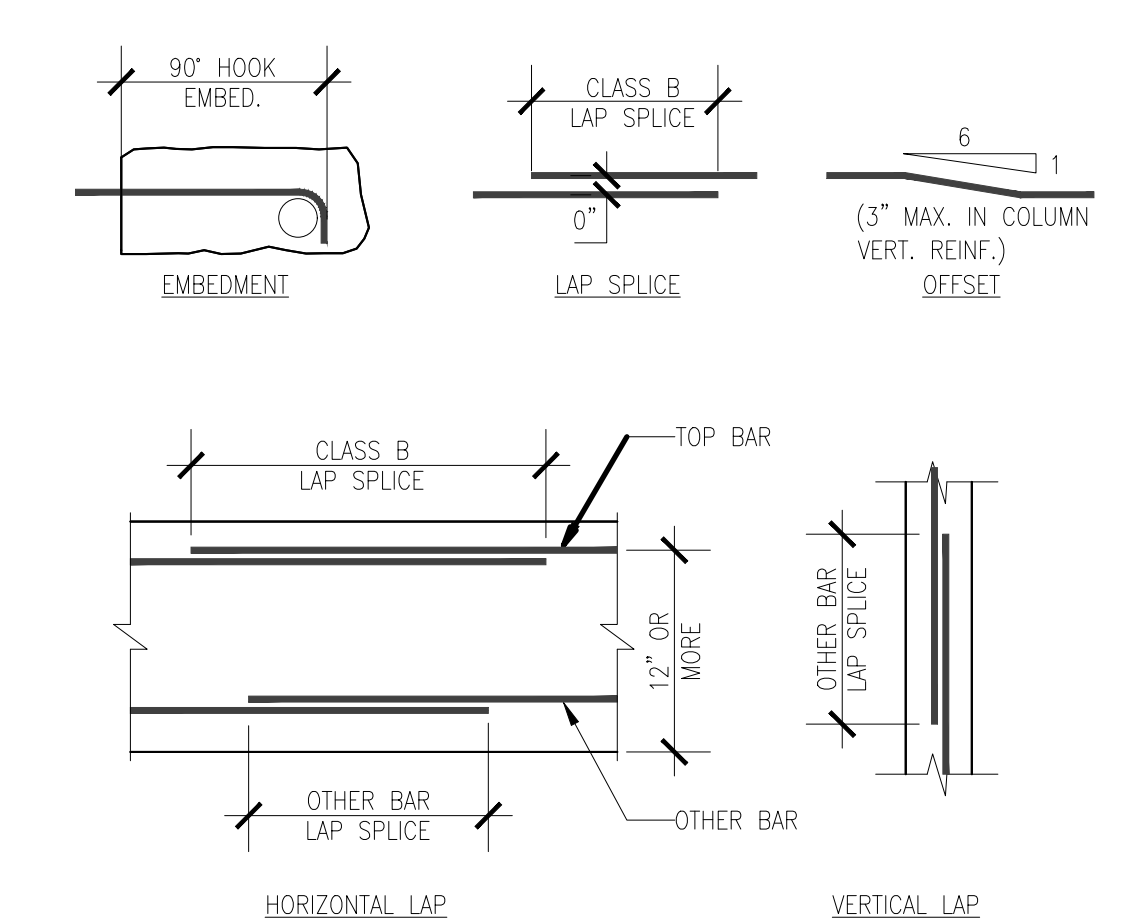


2 EAST BF ELEVATION
1/4" = 1'-0"



1 NORTH BF ELEVATION
1/4" = 1'-0"

GENERAL DRAWING SHEET NOTE: SEE A0.06 FOR TREE PROTECTION PLAN AND C1.0 FOR TREE MEASURES



TYPICAL REINFORCEMENT EMBED LAP SPLICE AND OFFSET NO SCALE

TOP BARS - 90° HOOK EMBEDMENT AND CLASS B TENSION LAP SPLICE FOR GRADE 60 REINF.

f'c	2,500 PSI		3,000 PSI		4,000 PSI		5,000 PSI	
	EMBED.	CLASS B	EMBED.	CLASS B	EMBED.	CLASS B	EMBED.	CLASS B
BAR SIZE	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)
#3	9	31	9	28	8	25	7	22
#4	12	41	11	38	10	33	9	29
#5	15	51	14	47	12	41	11	36
#6	18	61	17	56	15	49	13	44
#7	21	89	20	81	17	71	15	63
#8	24	102	22	93	19	81	17	72
#9	27	115	25	105	22	91	20	81

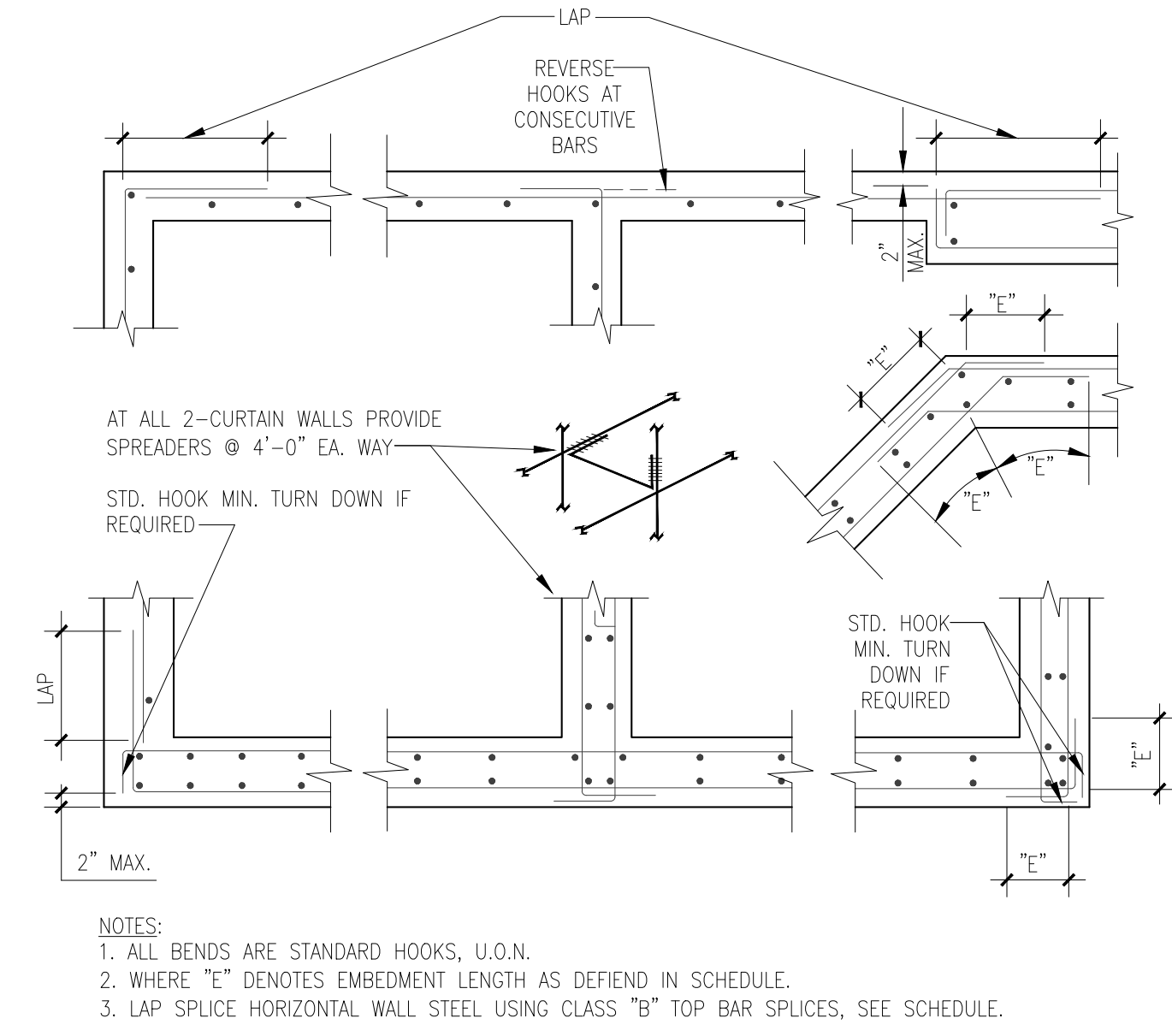
OTHER BARS - 90° HOOK EMBEDMENT AND CLASS B TENSION LAP SPLICE FOR GRADE 60 REINF.

f'c	2,500 PSI		3,000 PSI		4,000 PSI		5,000 PSI	
	EMBED.	CLASS B	EMBED.	CLASS B	EMBED.	CLASS B	EMBED.	CLASS B
BAR SIZE	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)
#3	9	24	9	22	8	19	7	17
#4	12	32	11	29	10	25	9	23
#5	15	39	14	36	12	31	11	28
#6	18	47	17	43	15	37	13	34
#7	21	69	20	63	17	54	15	49
#8	24	78	22	72	19	62	17	56
#9	27	88	25	81	22	70	20	63

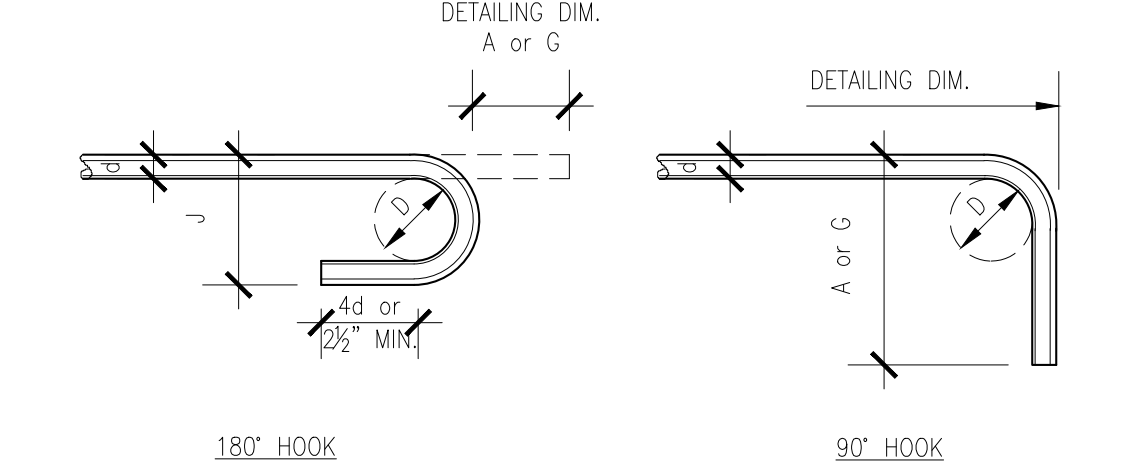
TYPICAL LAP SPLICE SCHEDULE N.T.S.

COVER FROM SURFACE OF CONCRETE TO SURFACE OF STEEL	CONDITION	COVER
SURFACE CAST AGAINST EARTH (EXCEPT SLAB-ON-GRADE)		3"
SURFACE EXPOSED TO EARTH OR WEATHER		
#6 AND LARGER BARS		2"
#5 AND SMALLER BARS		1 1/2"
SURFACE NOT EXPOSED TO EARTH OR WEATHER		
STRUCTURAL SLAB TO BOTTOM BARS		1"
STRUCTURAL SLAB TO TOP BARS		3/4"
WALL		1"
JOIST OR WAFFLE TO STIRRUPS		1"
BEAM TO STIRRUPS		1 1/4"
COLUMN TO SPIRAL OR TIES		1 1/2"
SHOTCRETE WALL AT FORMED FACE		2"

TYPICAL CONCRETE COVER OVER REINFORCING STEEL NO SCALE

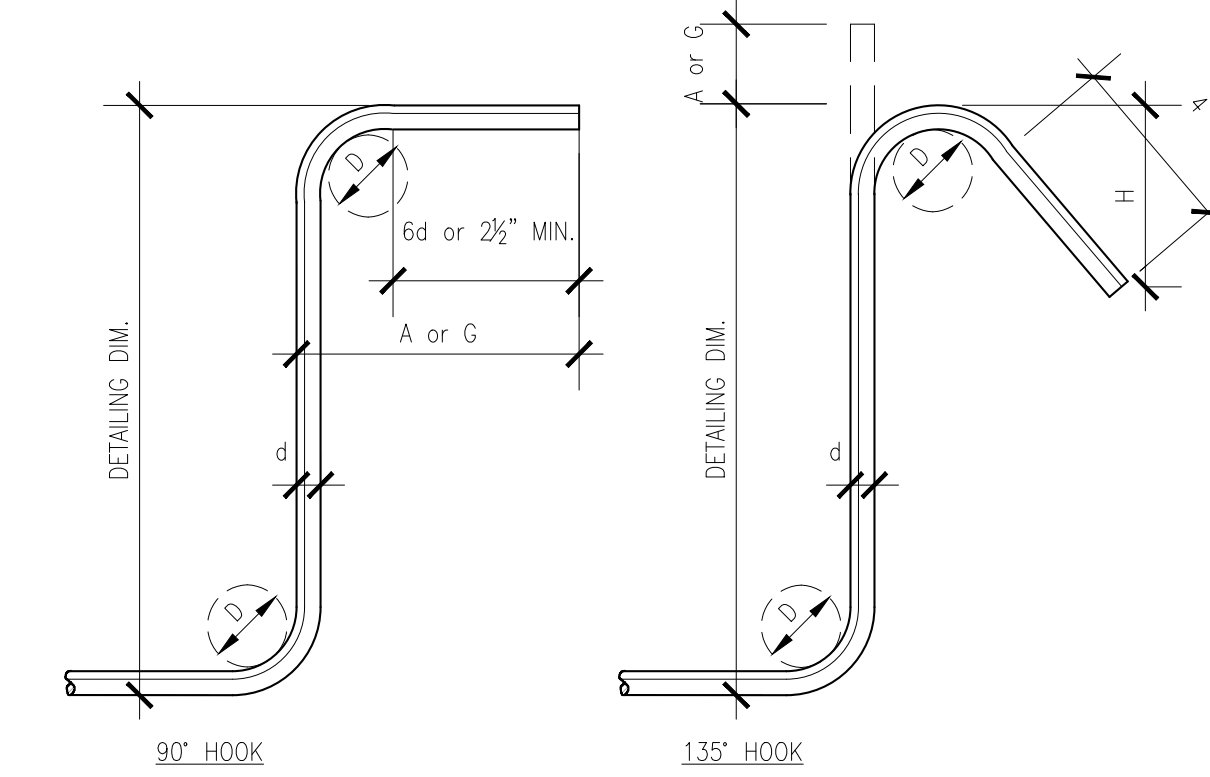


TYPICAL HORIZ. WALL REINF. AT CORNERS AND INTERSECTIONS NO SCALE



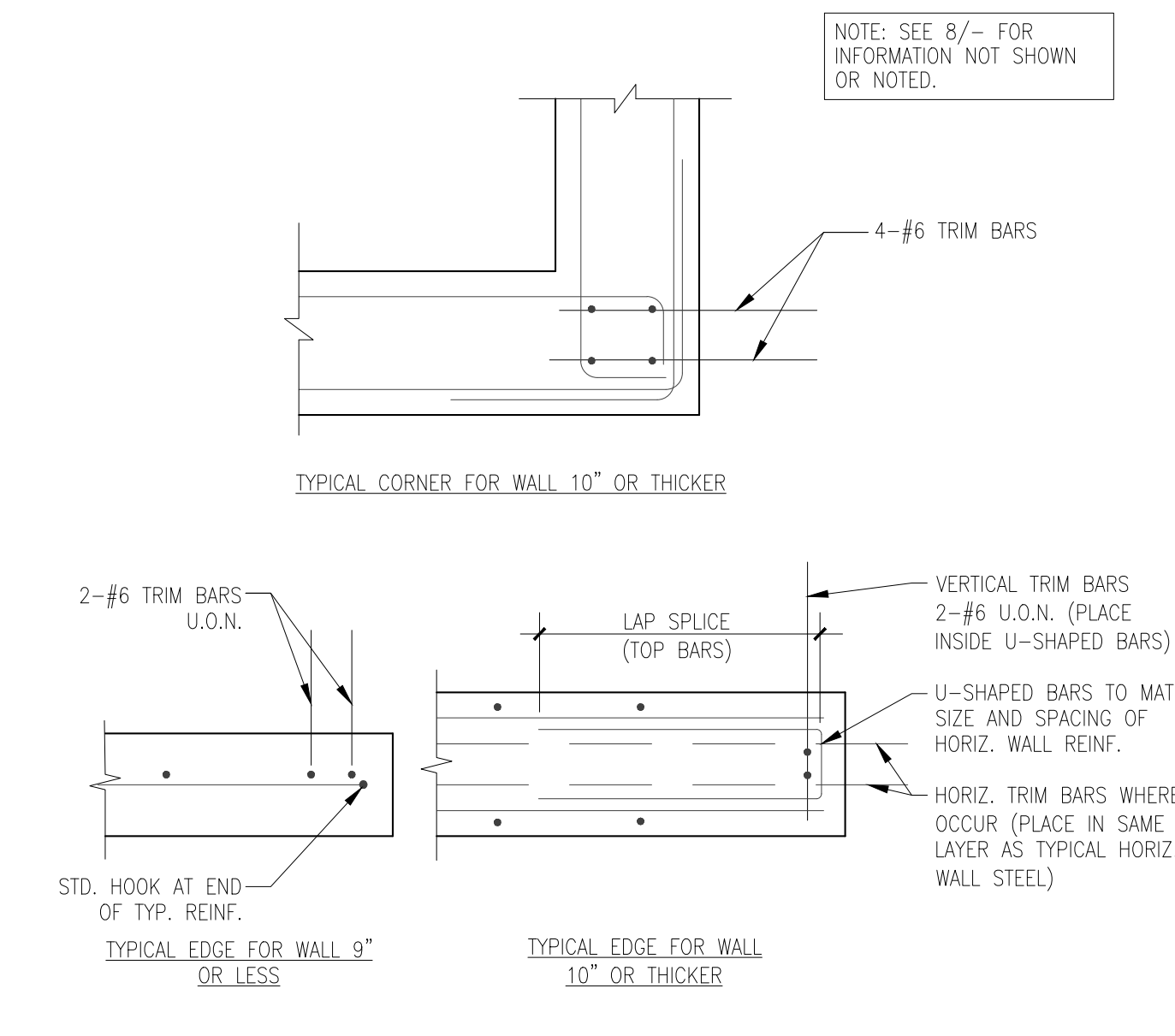
BAR SIZE	STANDARD 180° HOOKS				STANDARD 90° HOOKS			
	A or G	J	D	D	A or G	D	D	D
#3	5"	3"	2 1/2"	6"	2 1/2"	6"	6"	6"
#4	6"	4"	3"	8"	3"	8"	8"	8"
#5	7"	5"	3 3/4"	10"	3 3/4"	10"	10"	10"
#6	8"	6"	4 1/2"	12"	4 1/2"	12"	12"	12"
#7	10"	7"	5 1/4"	14"	5 1/4"	14"	14"	14"
#8	11"	8"	6"	16"	6"	16"	16"	16"
#9	15"	9 1/2"	9"	19"	9"	19"	19"	19"
#10	17"	11"	10"	22"	10"	22"	22"	22"
#11	19"	12"	11"	24"	11"	24"	24"	24"
#14	26"	20"	17"	31"	17"	31"	31"	31"

TYPICAL STANDARD HOOK DIMENSIONS NO SCALE

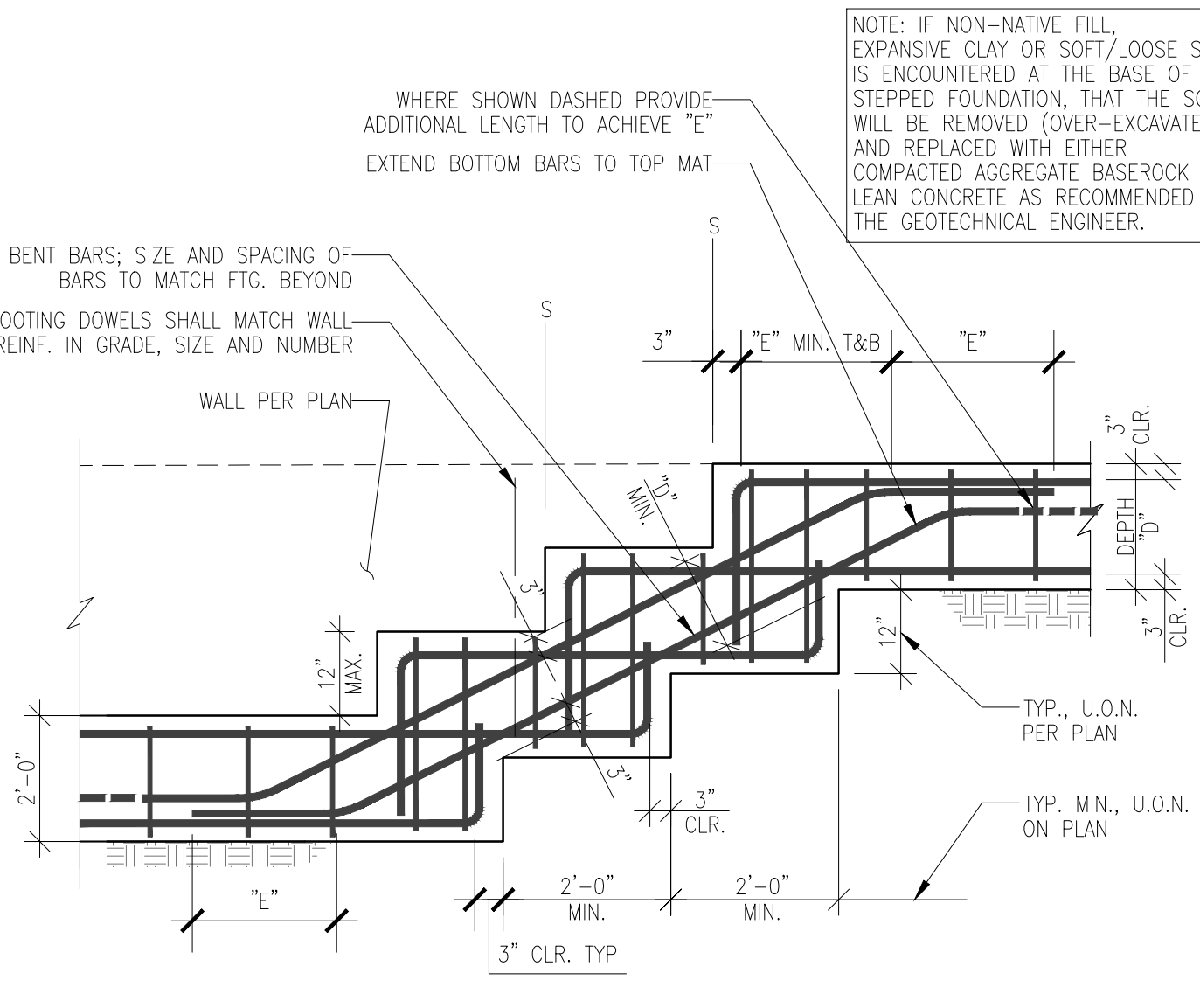


BAR SIZE	STIRRUP & TIE 90° HOOK		STIRRUP & TIE 135° HOOK	
	D	A or G	H (APPROX.)	A or G
#3	1 1/2"	4"	3 1/2"	5"
#4	2"	4 1/2"	4 1/2"	6 1/2"
#5	2 1/2"	6"	5 1/2"	8"

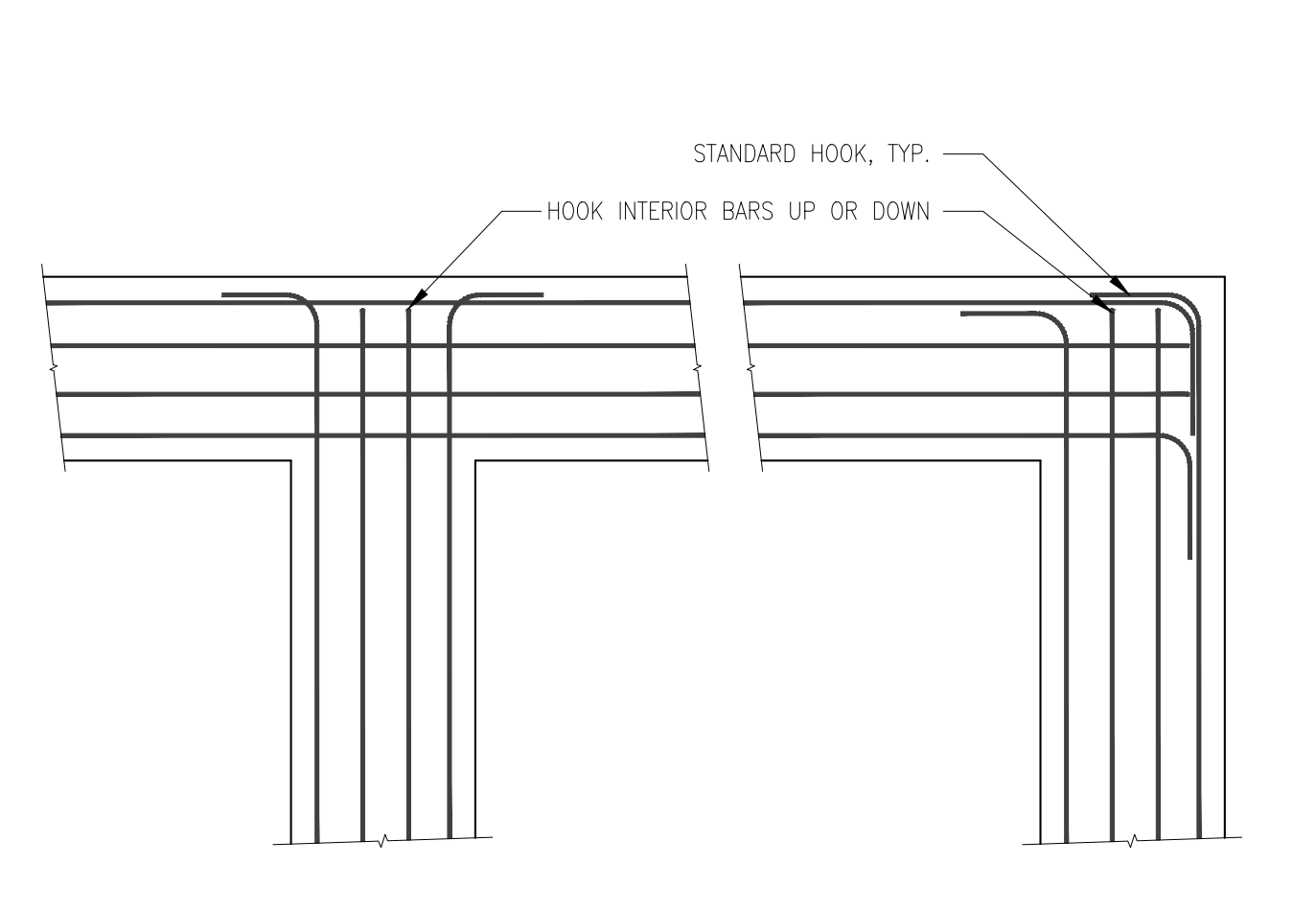
TYPICAL STIRRUP BEND AND HOOKS NO SCALE



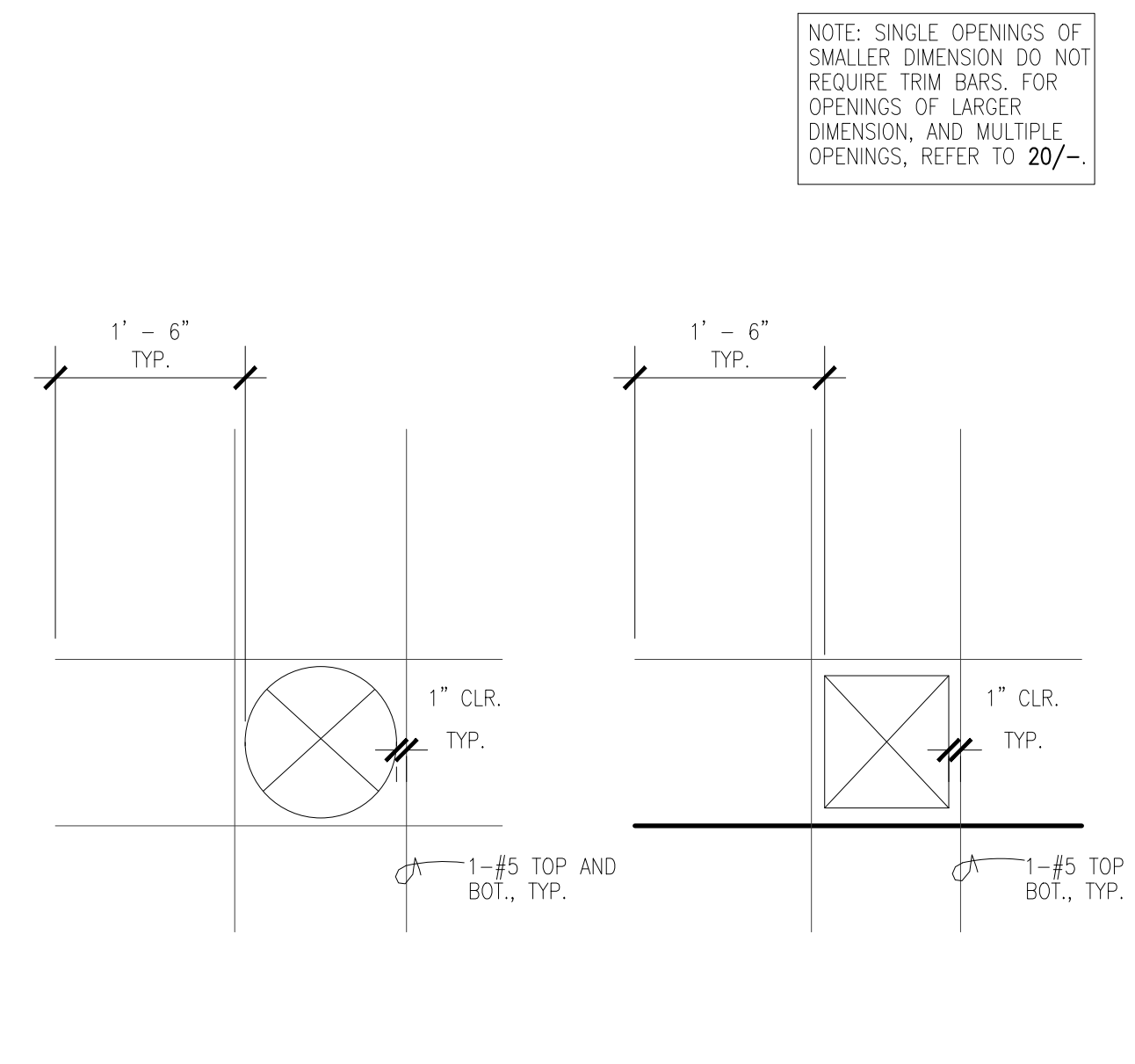
TYPICAL REINFORCING AT JAMB EDGES OF CONCRETE WALLS NO SCALE



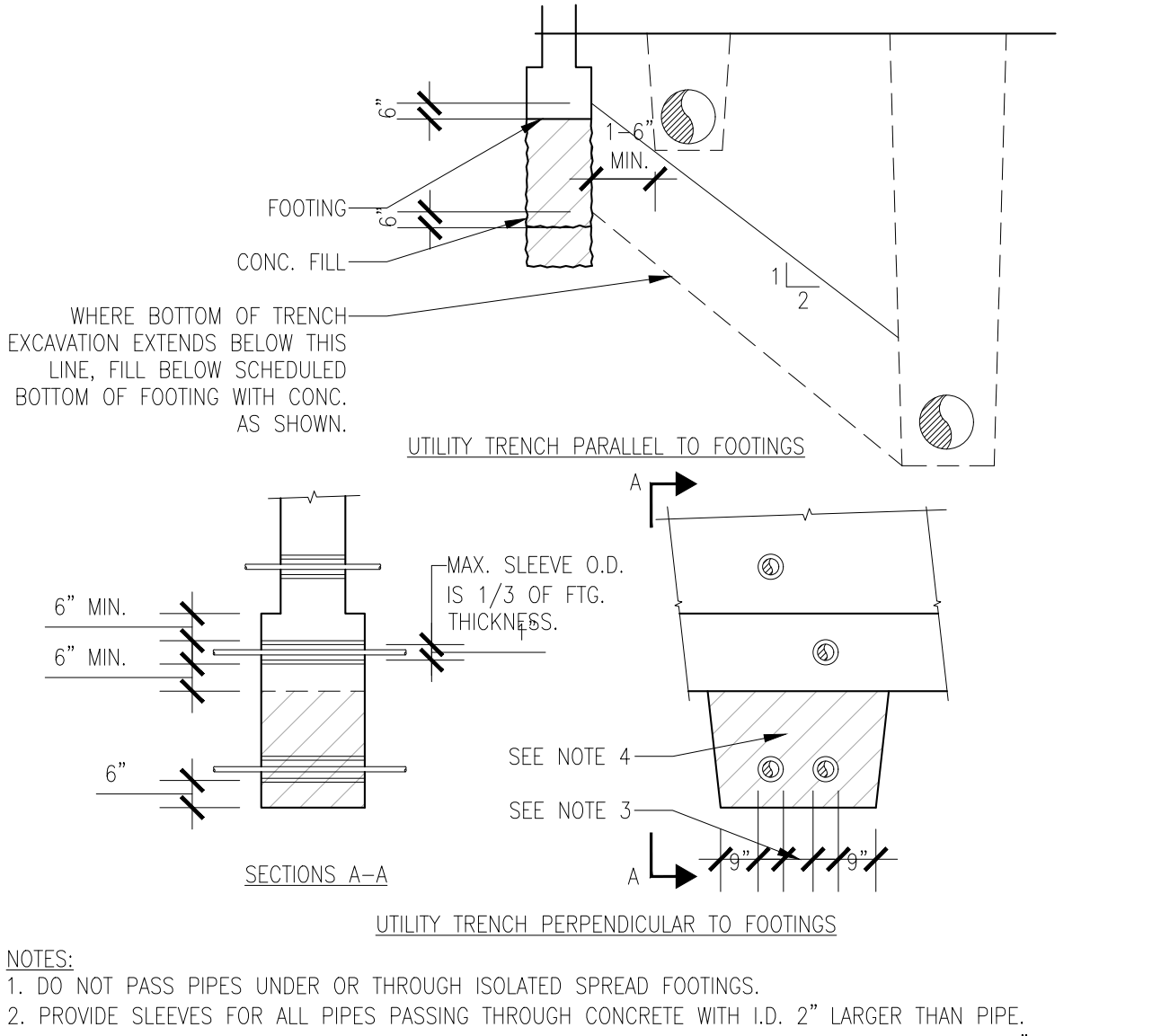
TYPICAL STEPPED FOOTING OR GRADE BEAM NO SCALE



TYPICAL REINFORCING AT FOOTING/GRADE BM CORNERS AND INTERSECTIONS NO SCALE



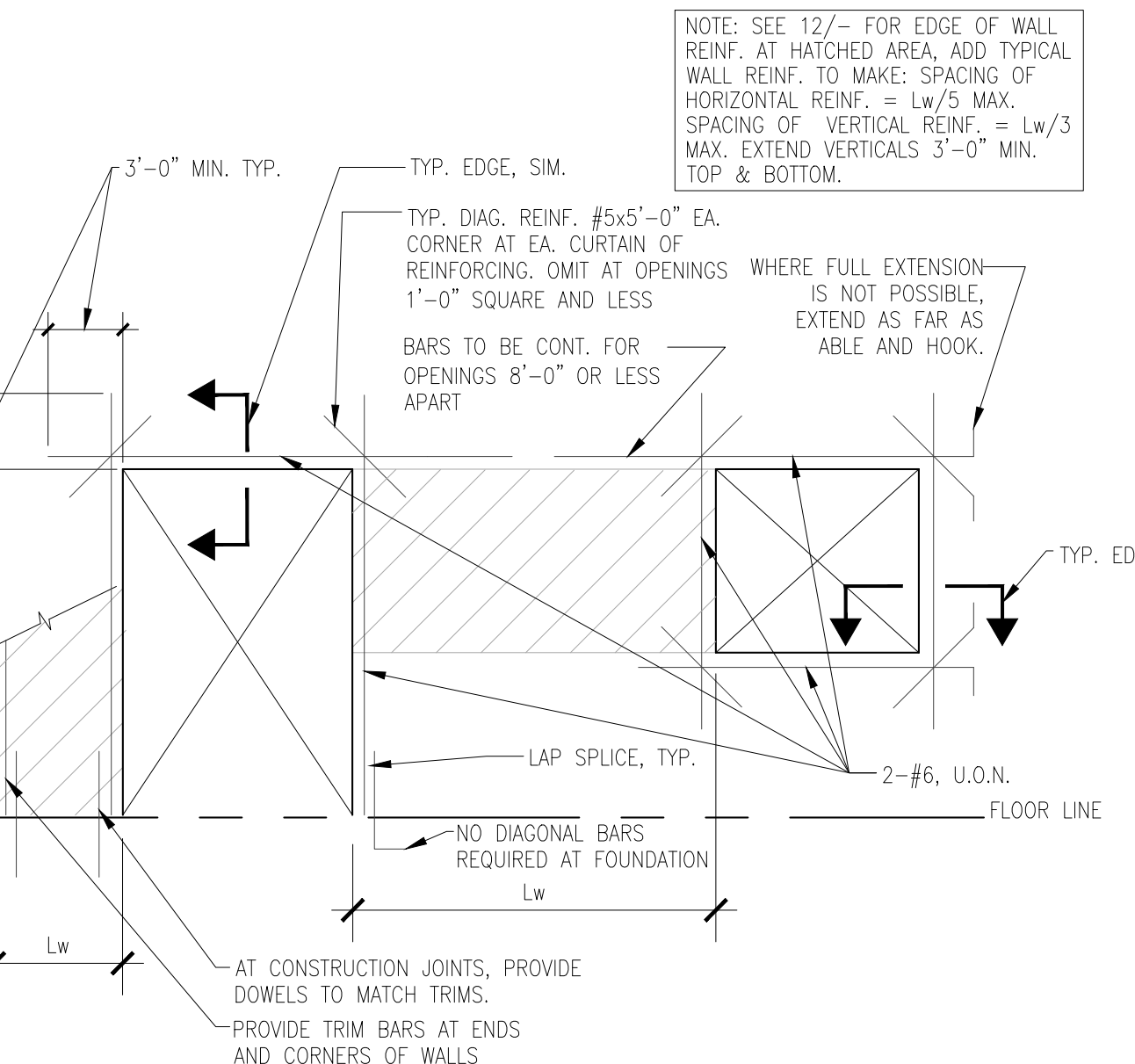
TRIM REINFORCING AT OPENINGS IN WALLS OR SLAB FROM 12"-24" NO SCALE



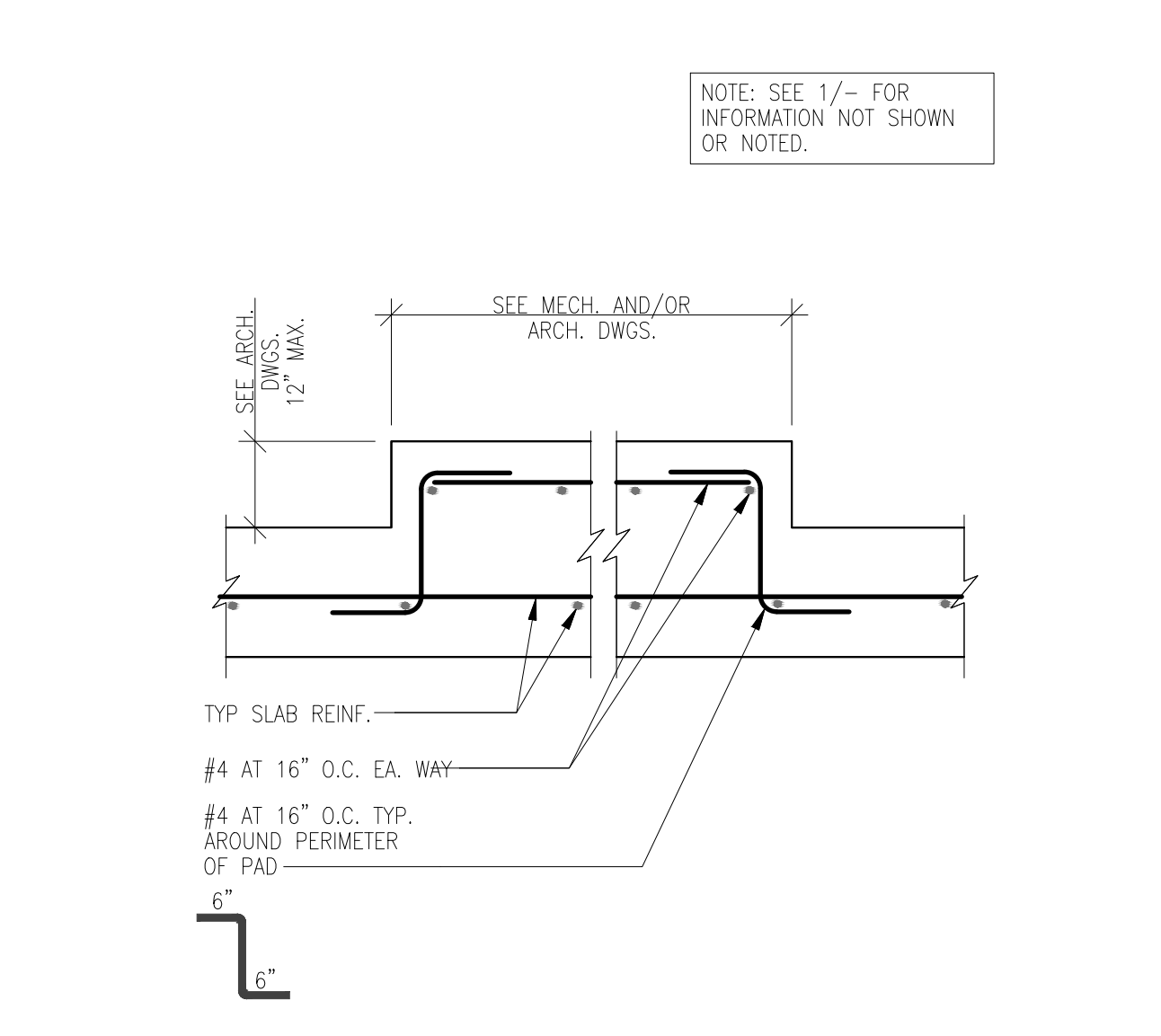
TYPICAL PIPE TRENCH AND PENETRATIONS AT FOUNDATIONS NO SCALE

DOWEL SIZE	THREADED ROD SIZE	DRILLED HOLE DIA. (1)	MINIMUM EMBEDMENT LENGTH (2) (3)	TEST LOAD (KIPS) THREADED ROD	TEST LOAD (KIPS) DOWEL
#3	3/8"	3/4"-3/8"	4 1/2"	5.28	2.25
#4	1/2"	5/8"-1/2"	6"	9.60	6.82
#5	5/8"	3/4"-5/8"	7 1/2"	14.88	10.85
#6	3/4"	1"-3/4"	10"	21.12	16.03
#7	7/8"	1 1/4"-7/8"	10 1/2"	28.80	22.18
#8	1"	1 1/2"-1"	12"	37.92	29.09

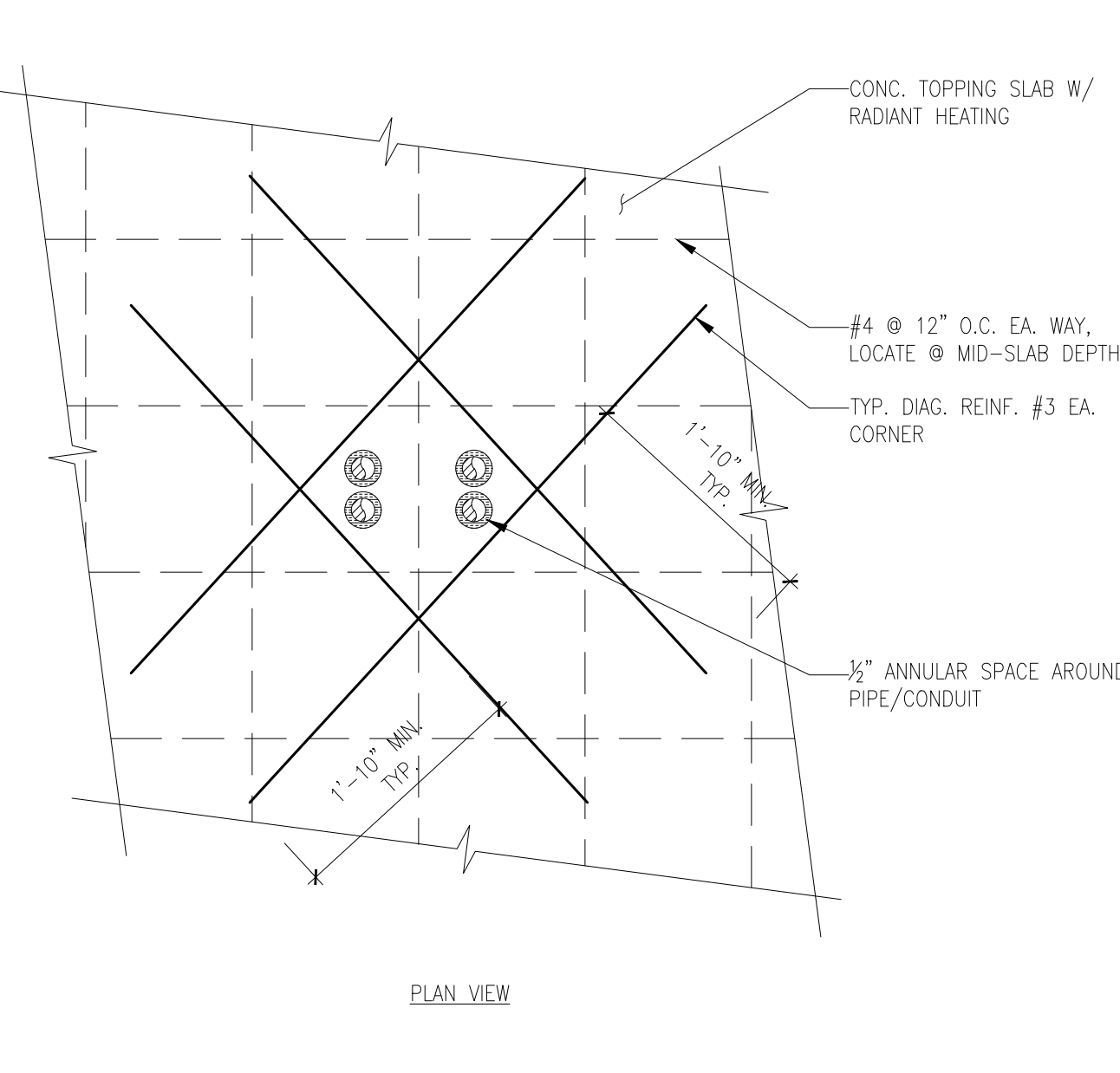
TYPICAL EPOXIED DOWEL ANCHORAGE IN CONCRETE NO SCALE



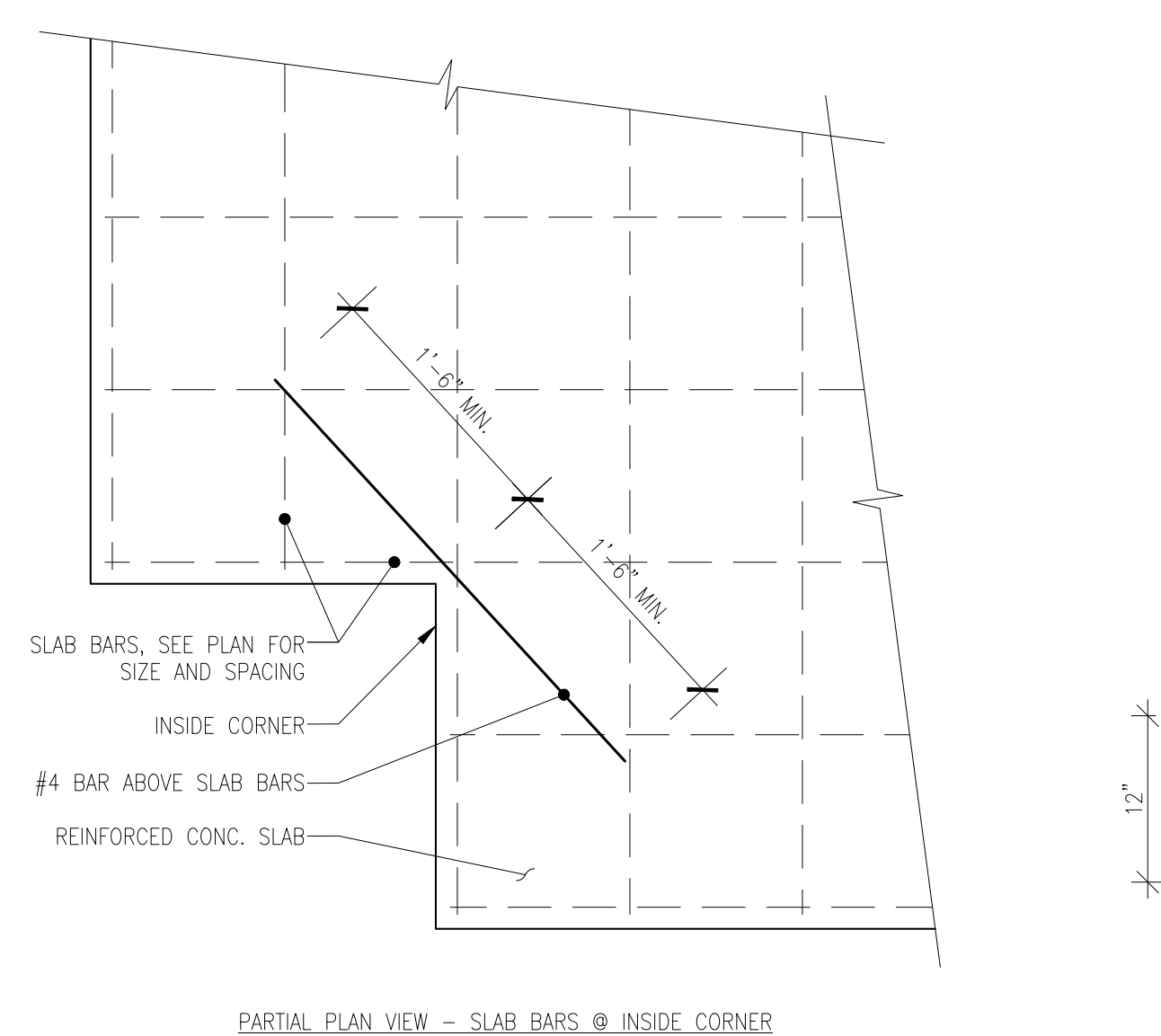
TRIM REINFORCING AT OP'GS IN WALLS OR SLAB GREATER THAN 24" NO SCALE



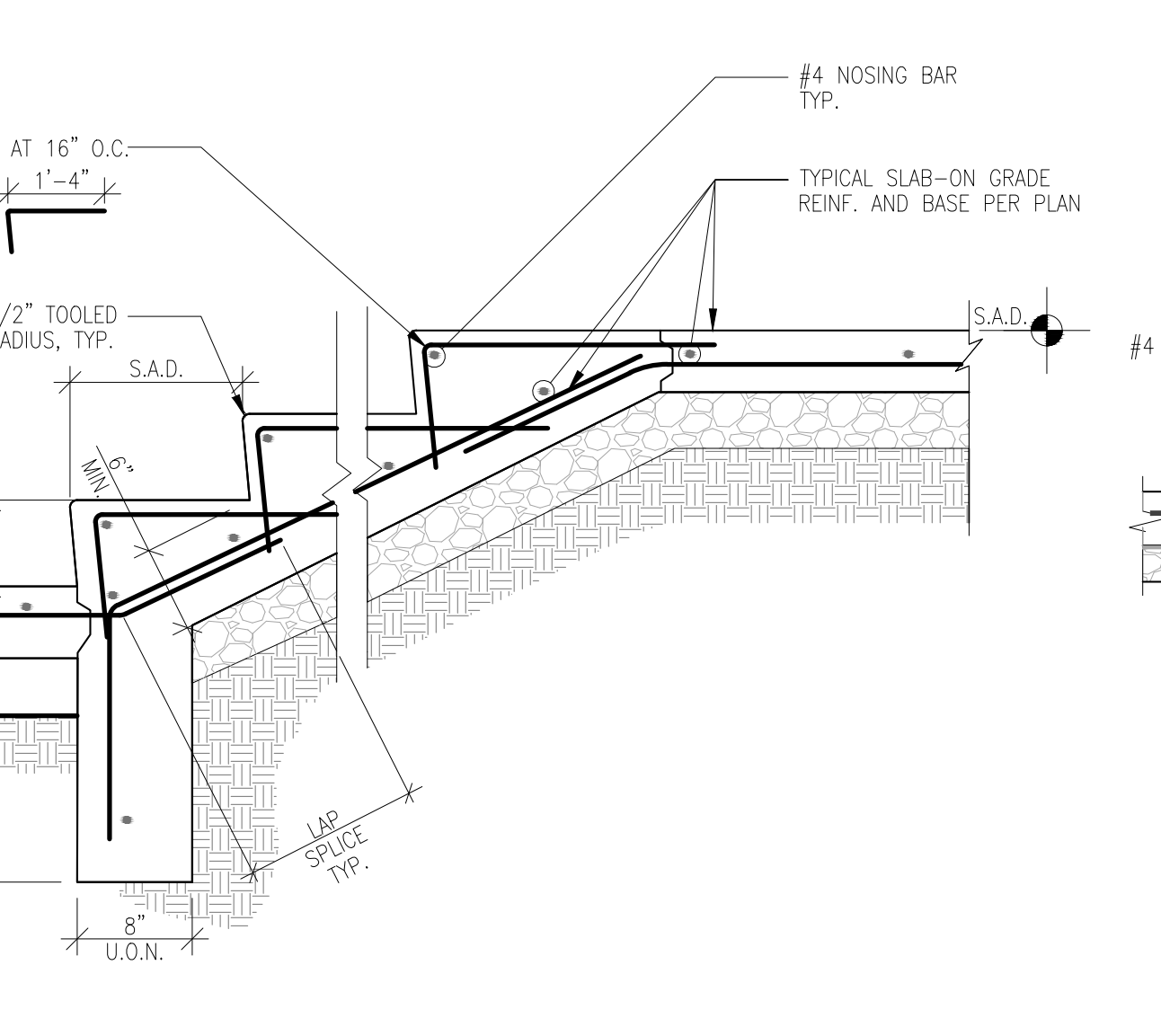
TYPICAL SLAB RAISED PAD NO SCALE



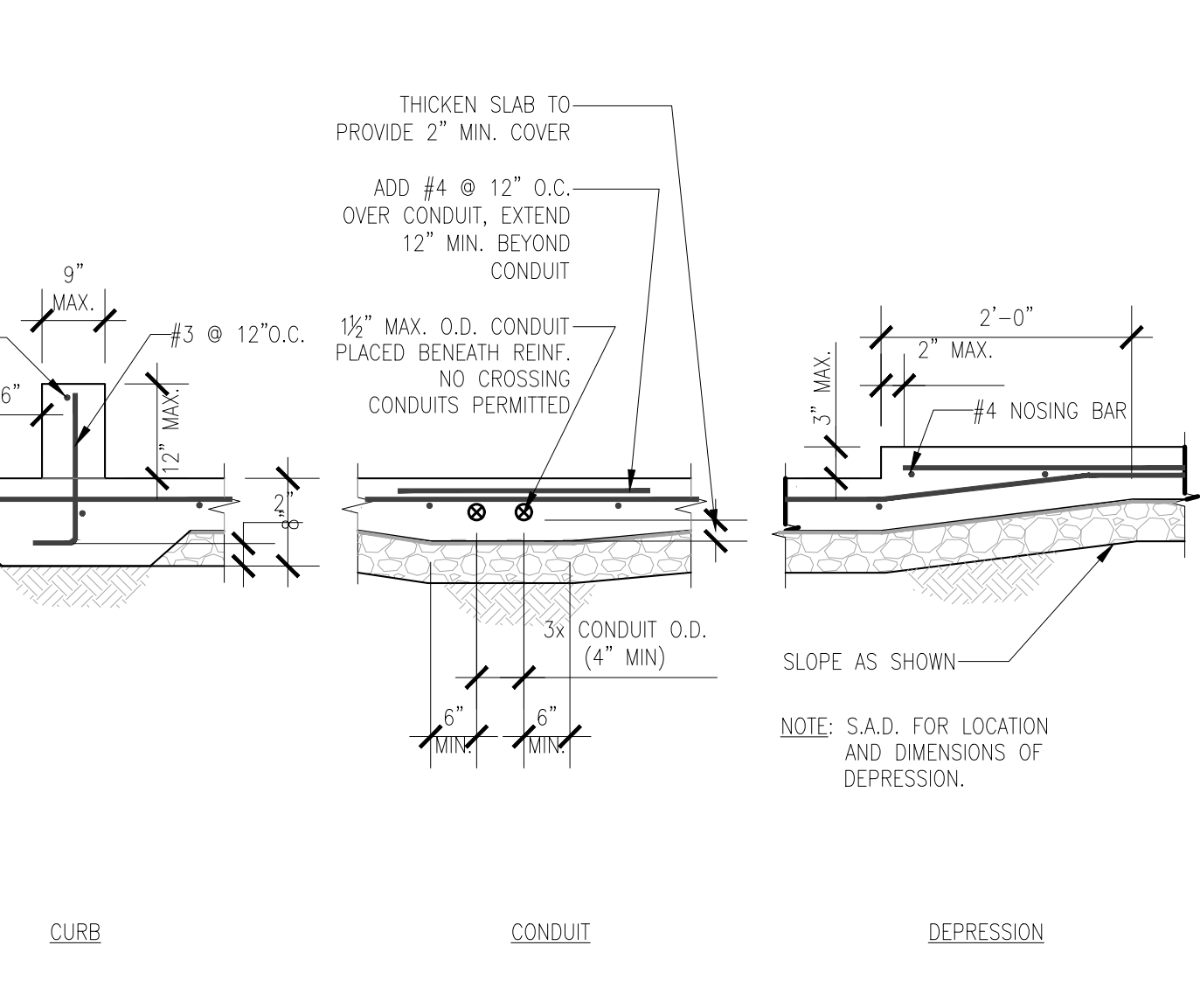
TYP. PLUMBING/CONDUIT PENETRATION INTO CONC. TOPPING SLAB NO SCALE



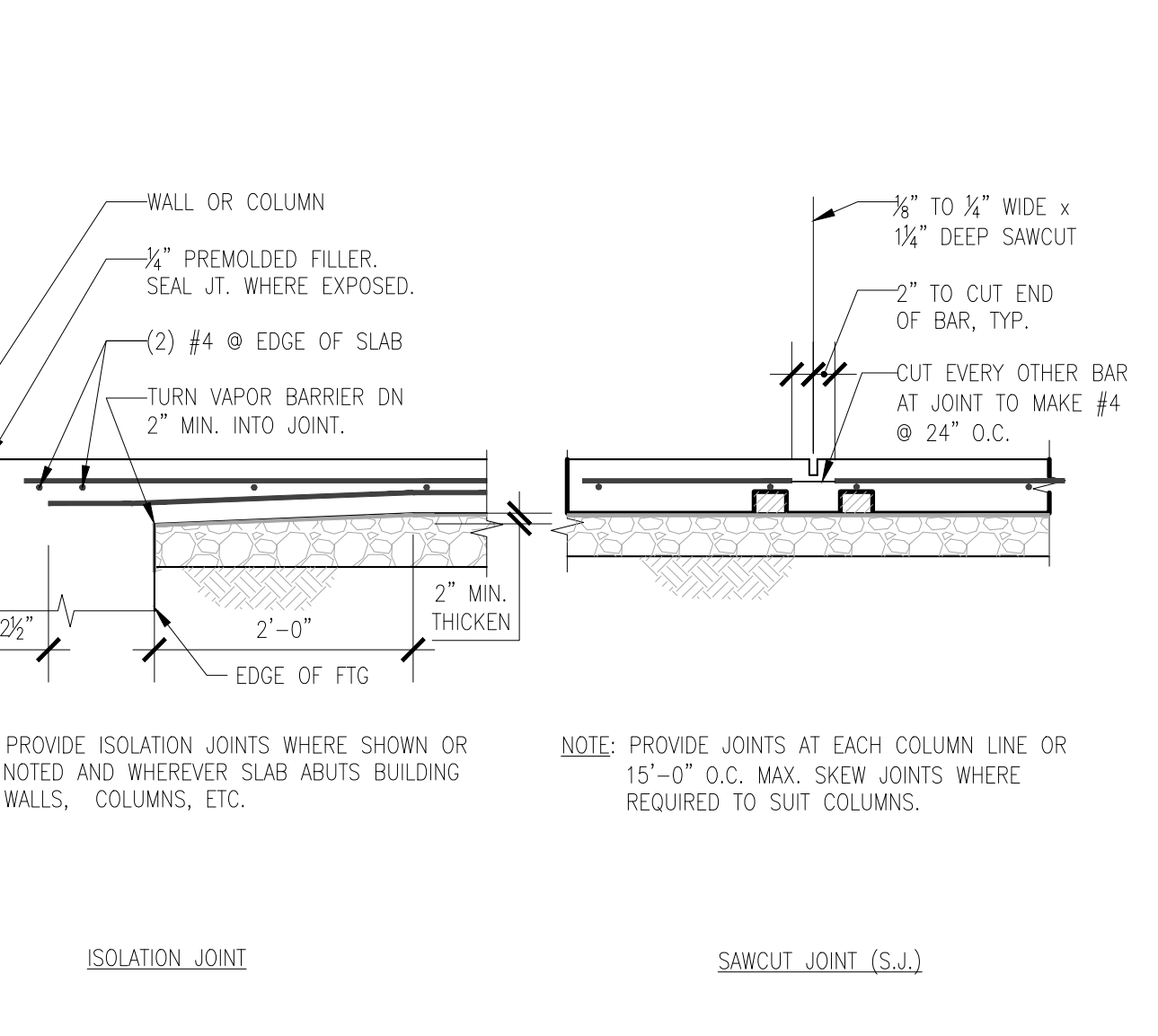
TYP. SLAB-ON-GRADE BARS AT INSIDE CORNER NO SCALE



TYPICAL EXTERIOR STAIR ON GRADE NO SCALE



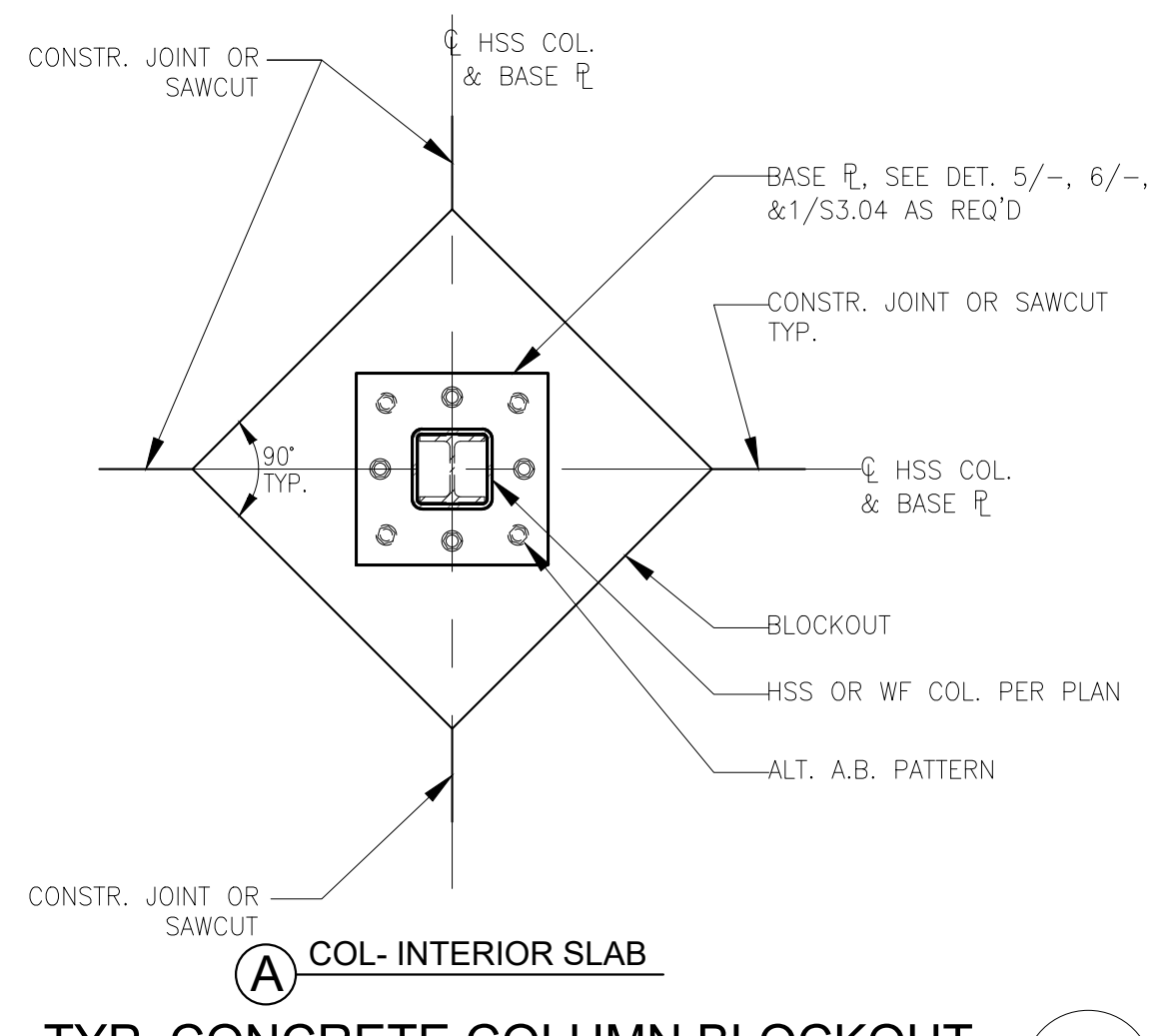
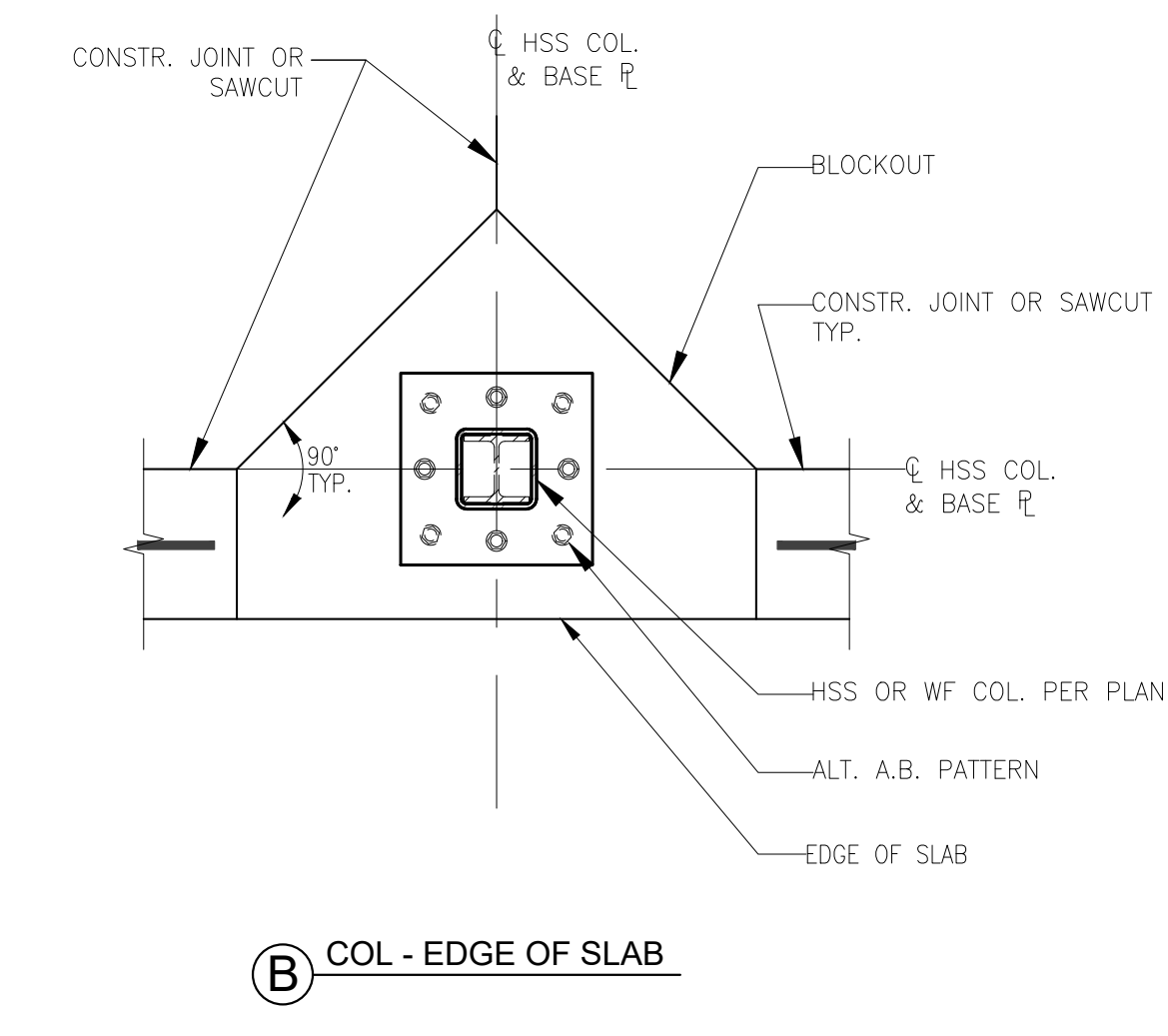
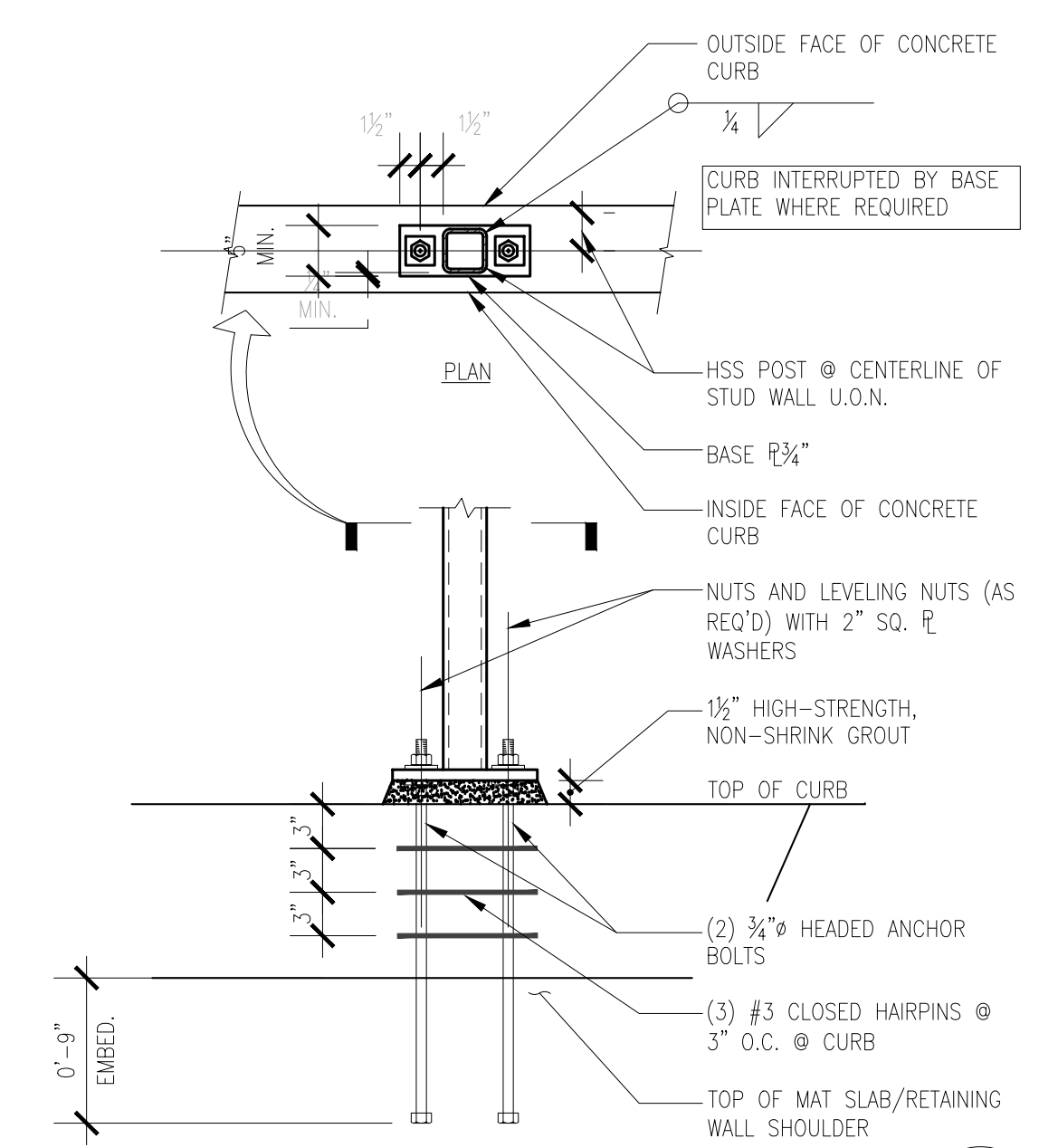
TYPICAL SLAB-ON-GRADE DETAILS NO SCALE



TYPICAL SLAB-ON-GRADE DETAILS NO SCALE

GENERAL DRAWING SHEET NOTE: SEE A0.06 FOR TREE PROTECTION PLAN AND C1.0 FOR TREE MEASURES

NOTE: G.C. TO COORDINATE FINISH

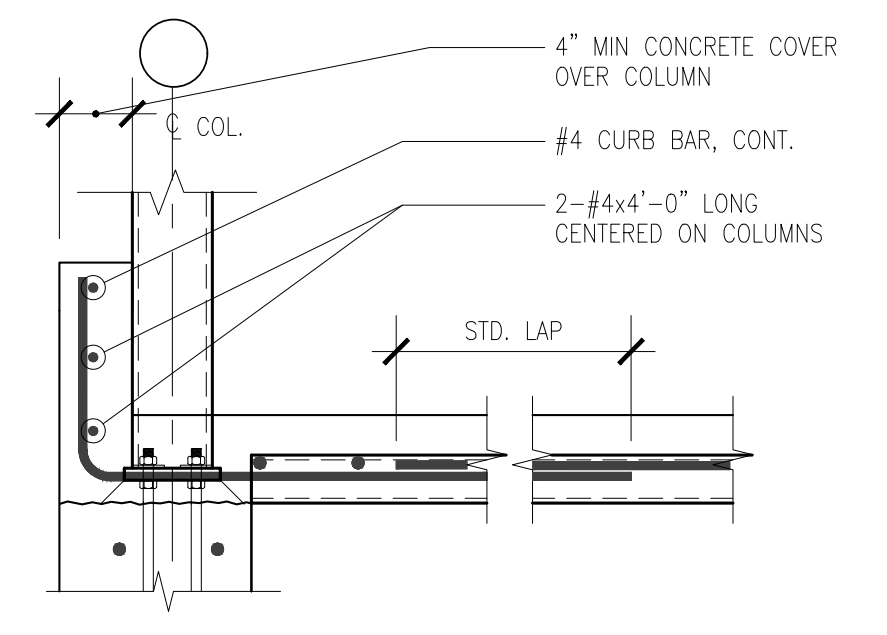


TYP. HSS POST BASE DETAIL ON CURB NO SCALE 12

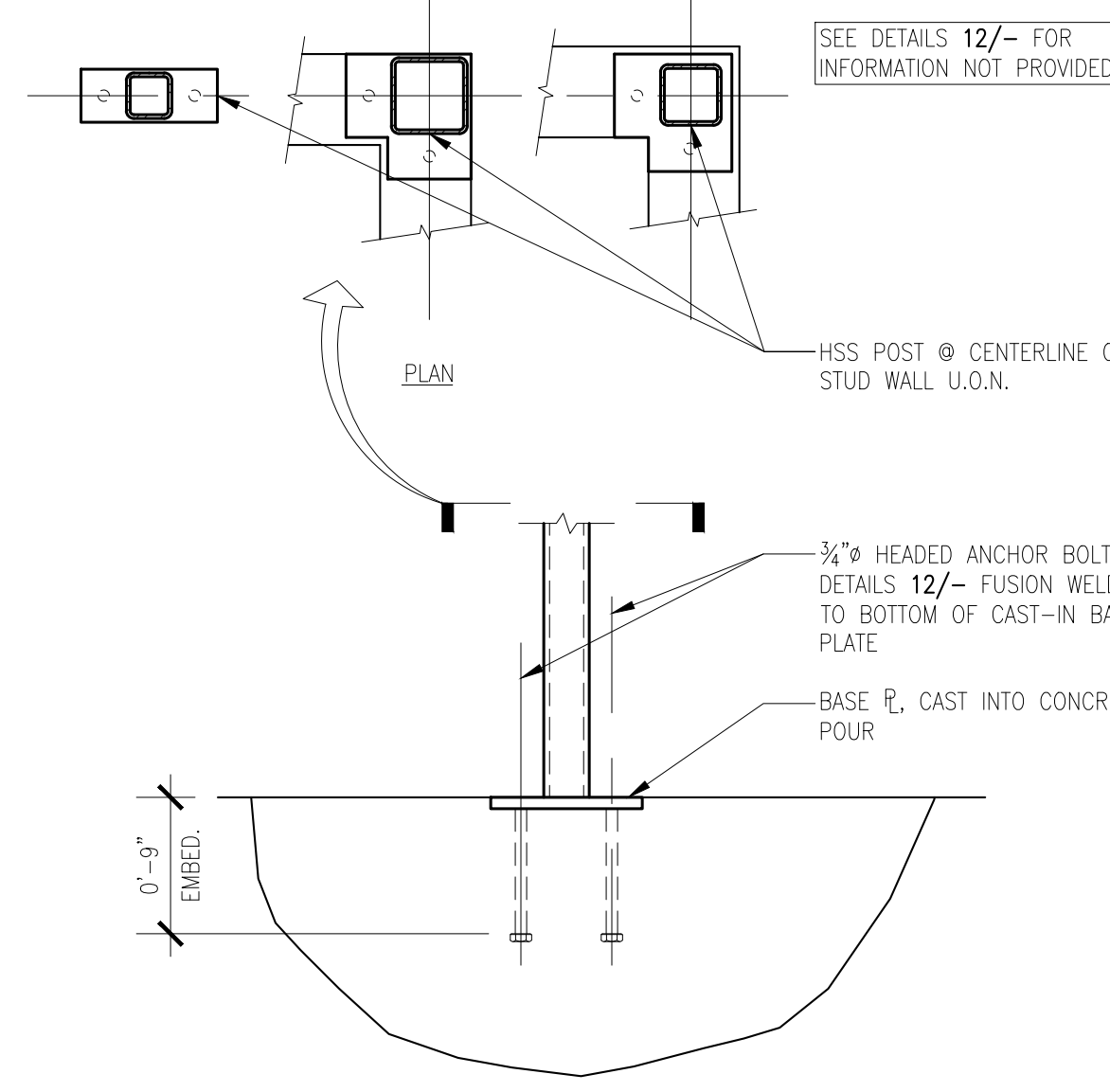
COL - EDGE OF SLAB

COL - INTERIOR SLAB

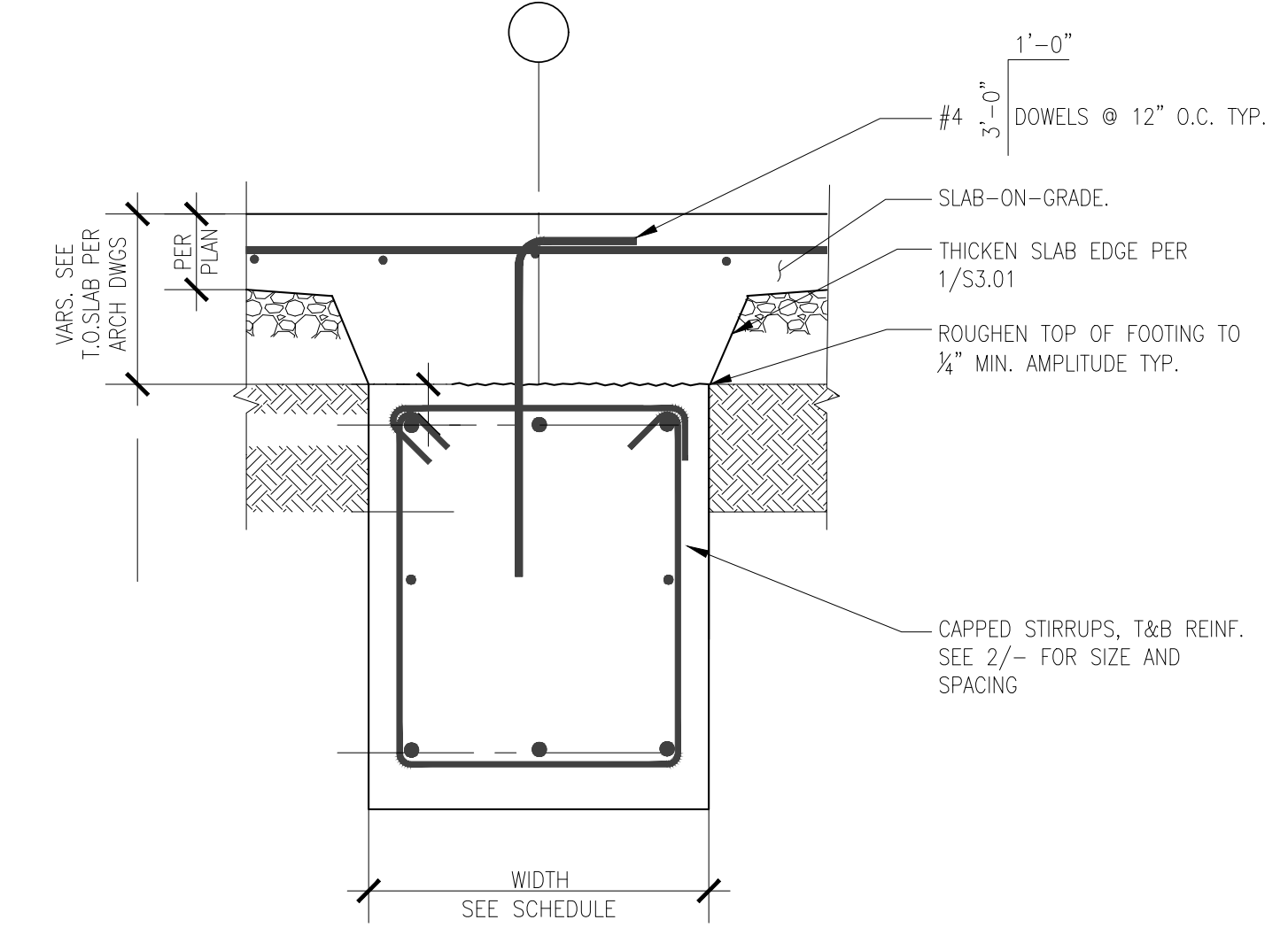
TYP. CONCRETE COLUMN BLOCKOUT NO SCALE 4



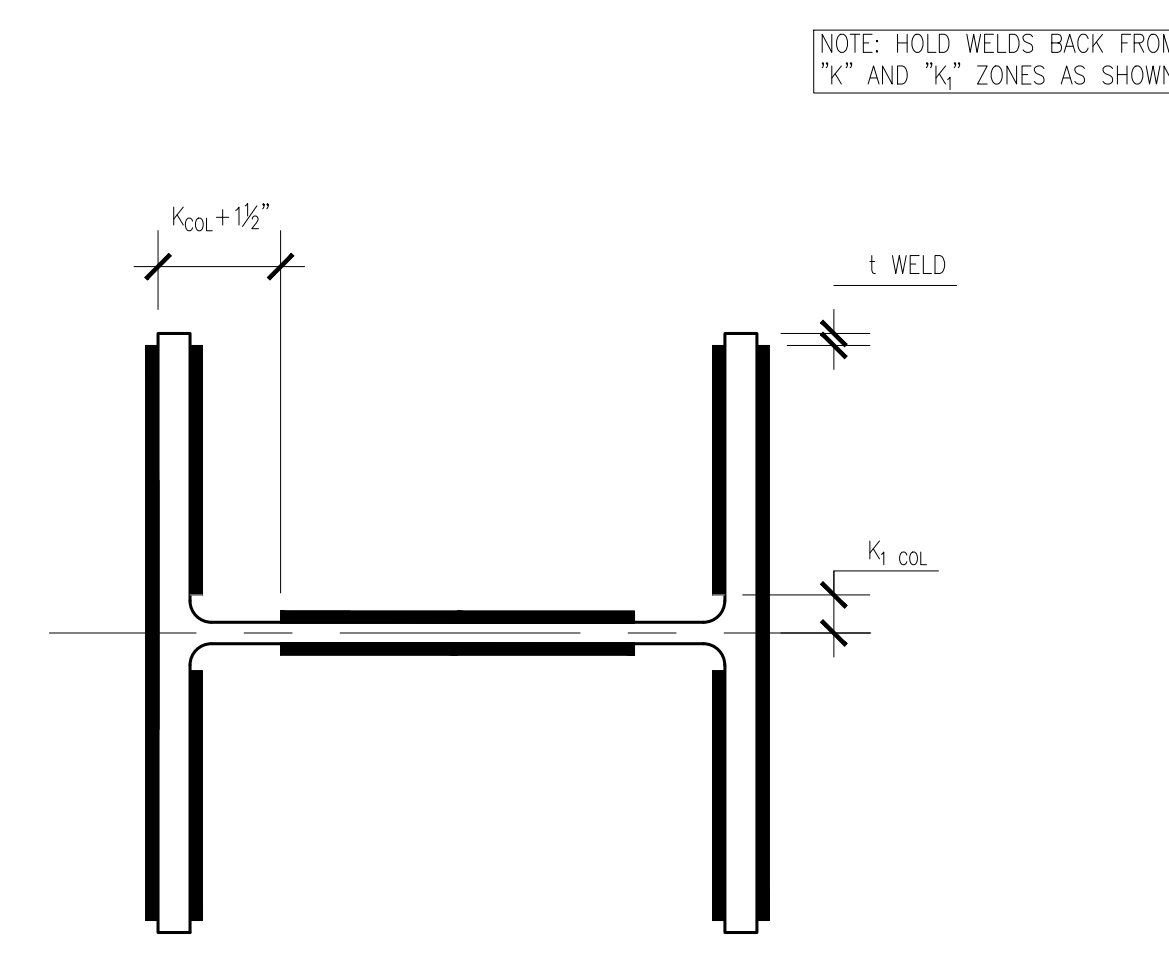
TYP. CONCRETE CURB AT EXTERIOR COLUMN NO SCALE 11



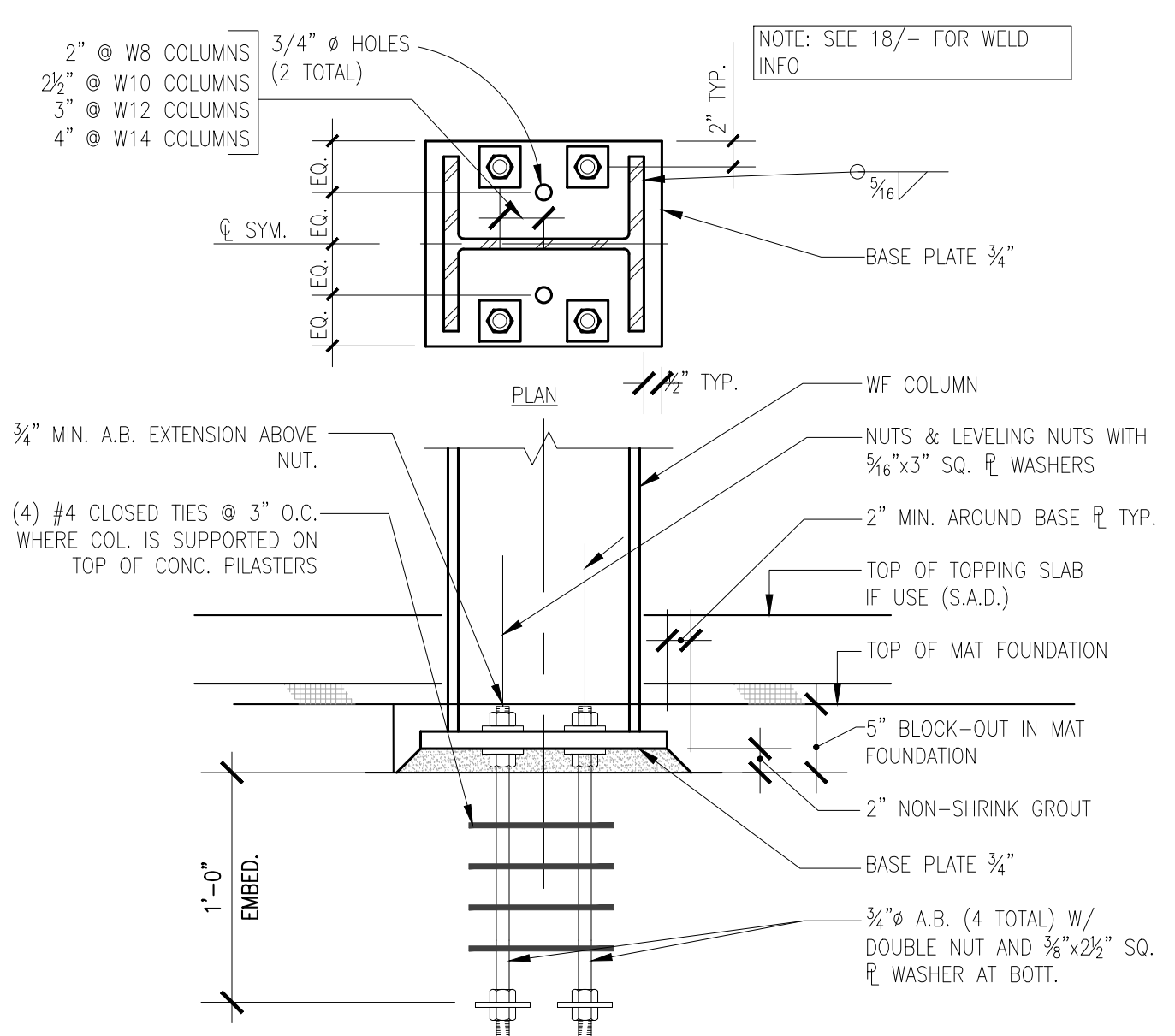
TYP. HSS POST CAST IN BASE PLATE NO SCALE 7



TYPICAL CONTINUOUS FOOTING AT INTERIOR N.T.S. 3



TYP. COLUMN TO BASE PLATE WELD LIMITS NO SCALE 10

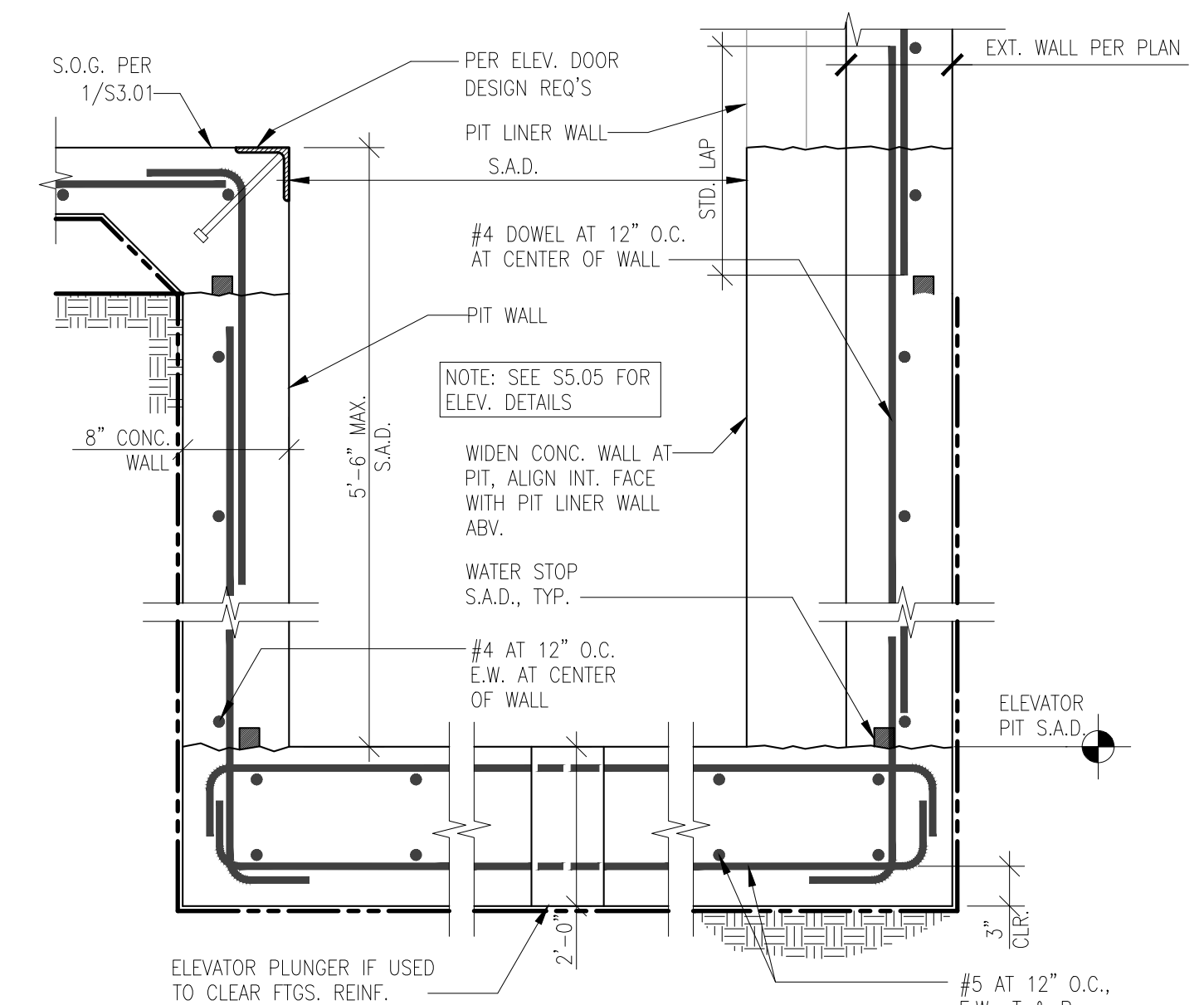


TYPICAL WIDE FLANGE COLUMN BASE DETAIL NO SCALE 6

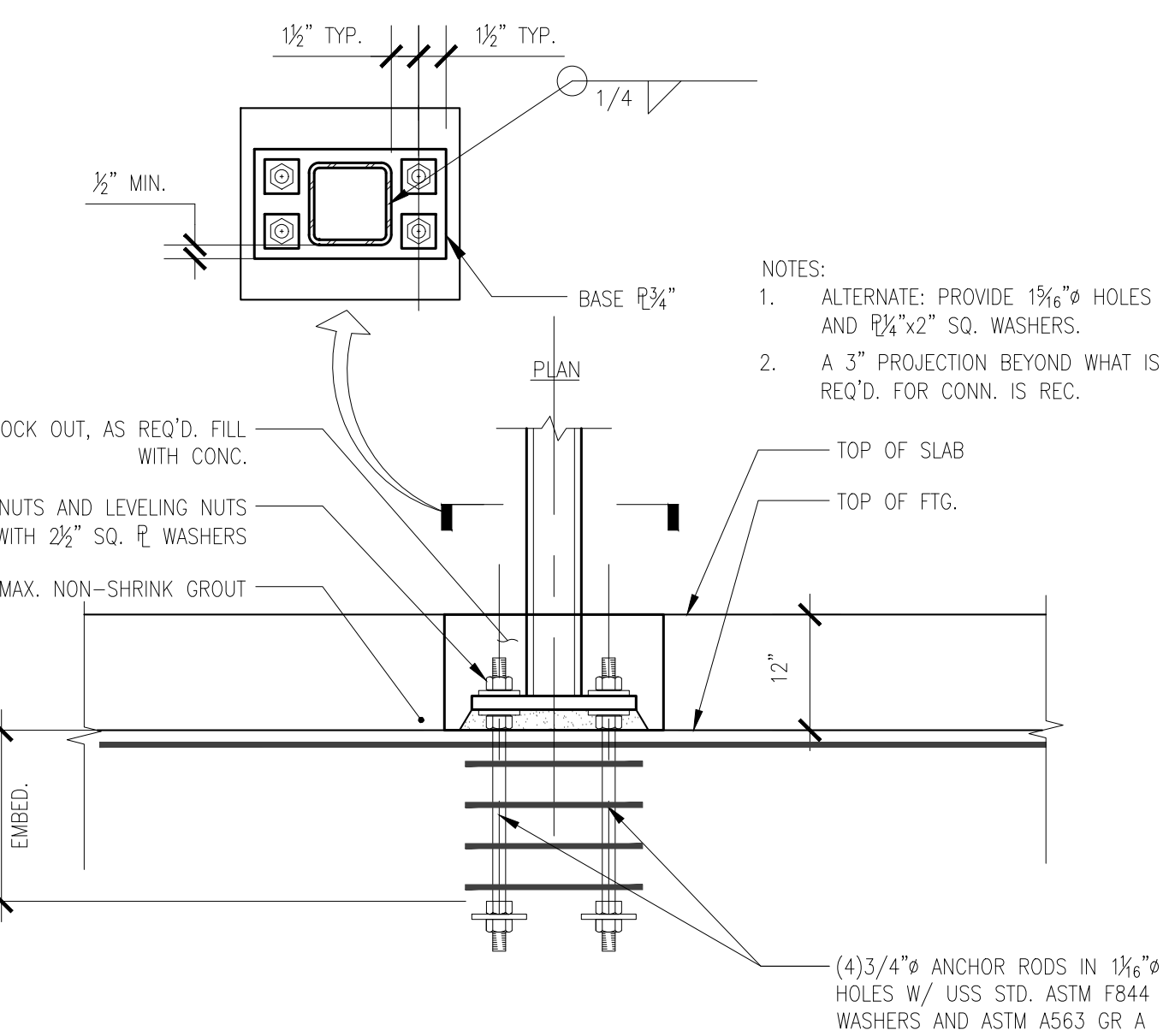
CONTINUOUS STRIP FOOTING REINFORCEMENT SCHEDULE

MARK	REINFORCEMENT				MIN. FOOTING DEPTH
	TOP REINF. (T)	BOTTOM REINF. (B)	STIRRUPS	FOOTING WIDTH	
CF-1	6-#6 EQ. SPACED	6-#6 EQ. SPACED	#6 AT 9" O.C.	5'-0"	2'-0"
CF-2	11-#5 EQ. SPACED	11-#5 EQ. SPACED	-	10'-0"	2'-0"
CF-3	8-#6 EQ. SPACED	8-#6 EQ. SPACED	#6 AT 6" O.C.	7'-8"	2'-0"

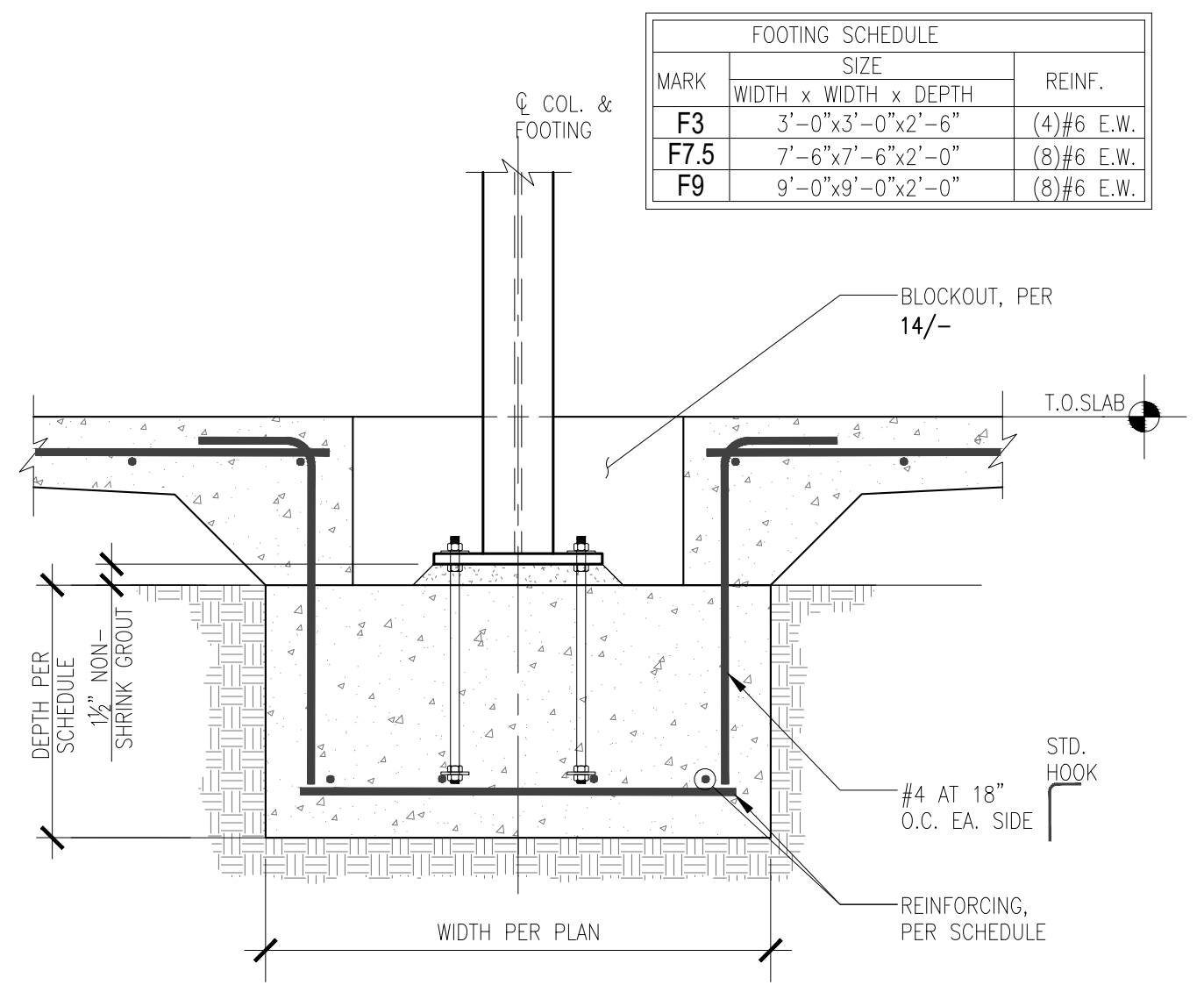
CONTINUOUS STRIP FOOTING REINFORCEMENT SCHEDULE NO SCALE 2



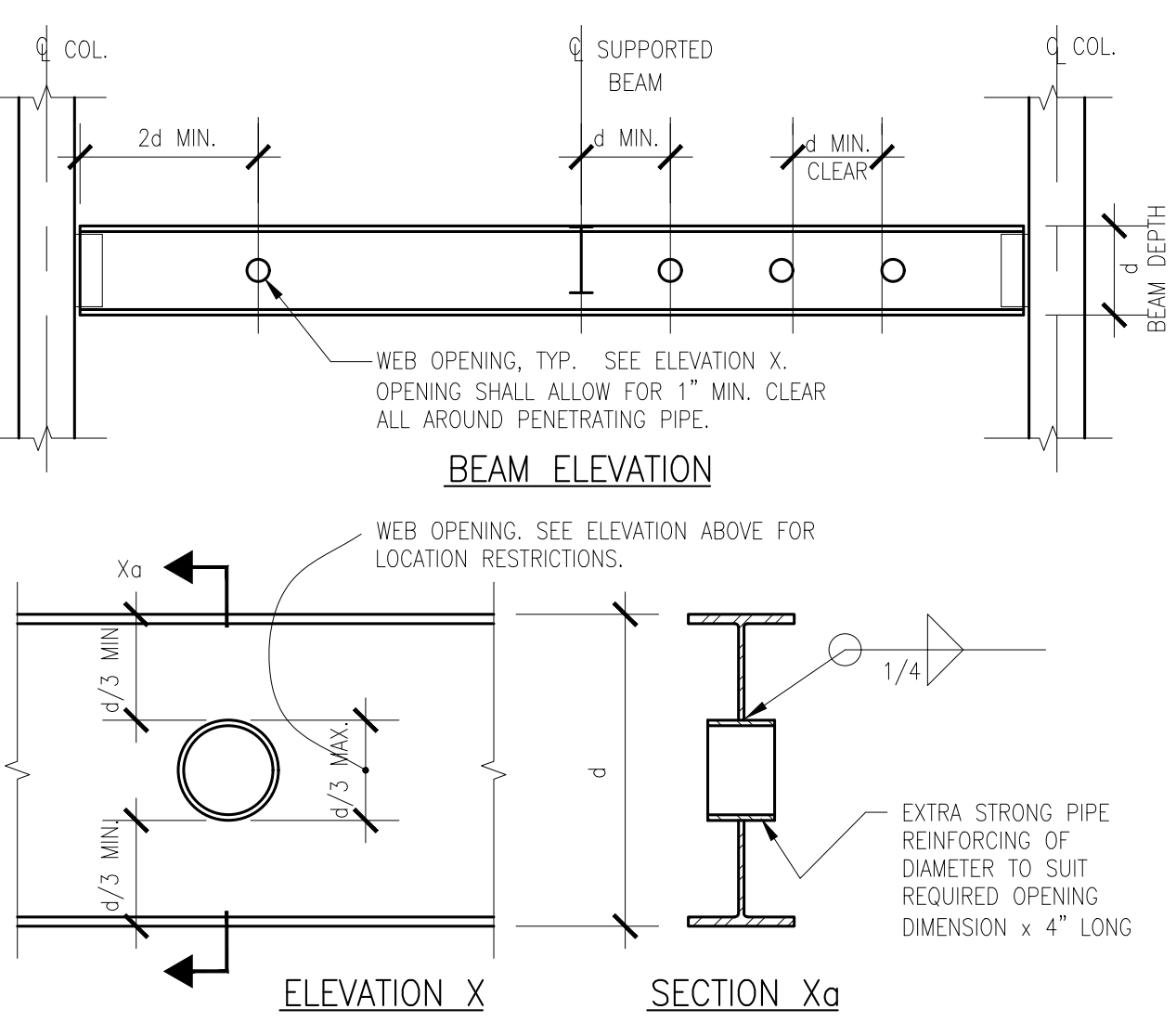
ELEVATOR PIT N.T.S. 9



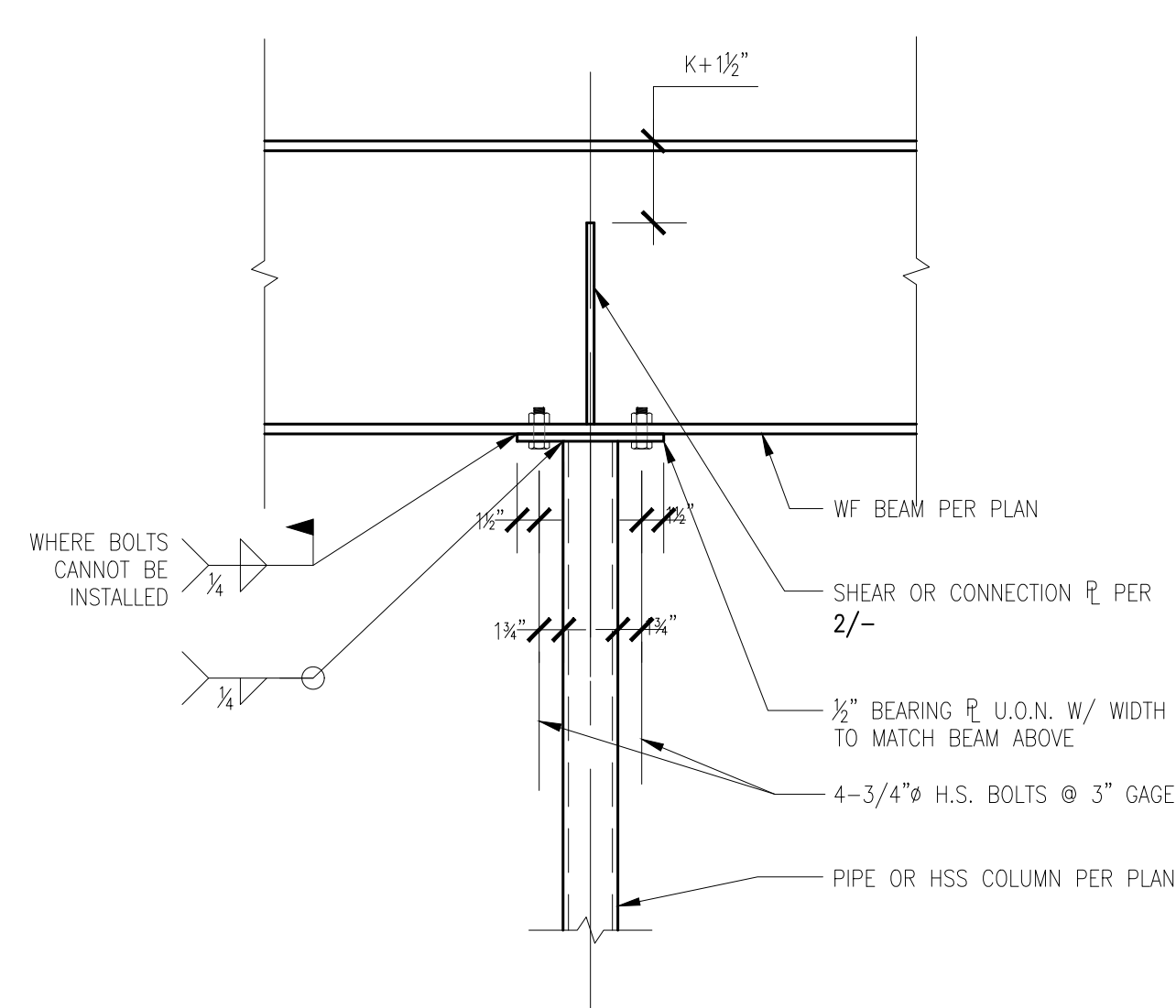
TYPICAL HSS COLUMN BASE DETAIL NO SCALE 5



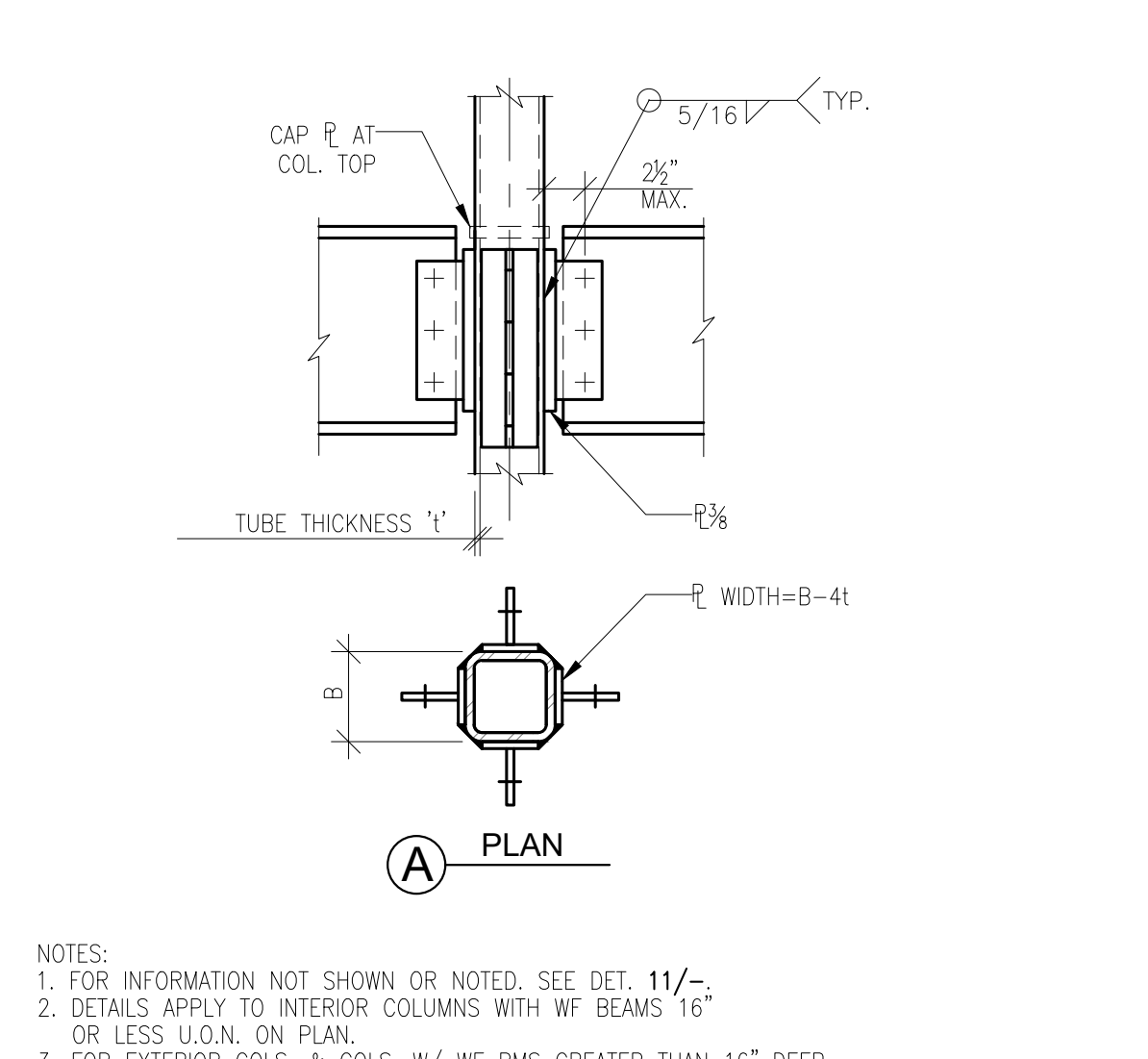
TYPICAL INTERIOR ISOLATED SPREAD FOOTING 1'=1'-0" 1



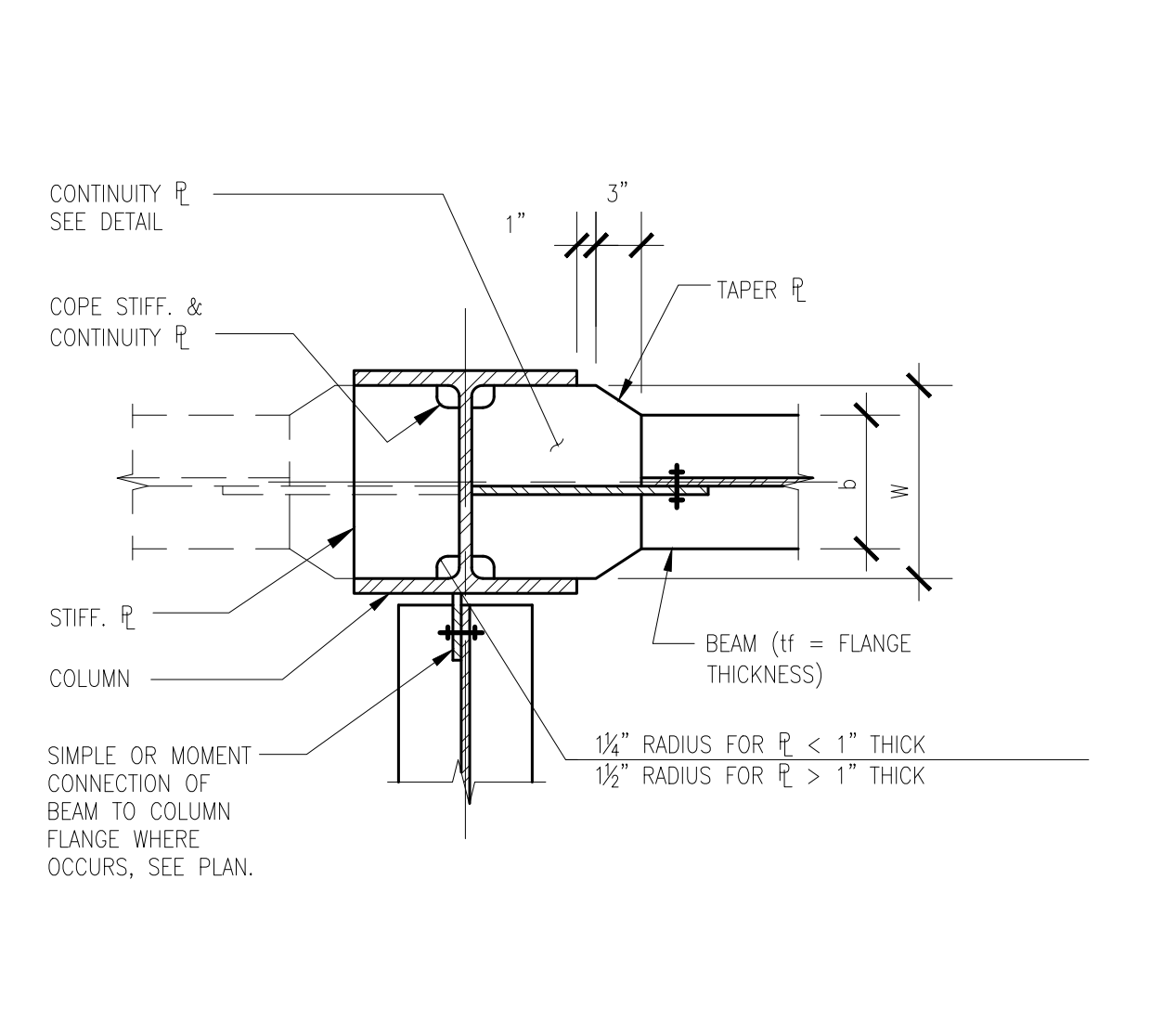
TYPICAL REINFORCED WEB OPENING IN STEEL BEAMS FOR PIPES NO SCALE **20**



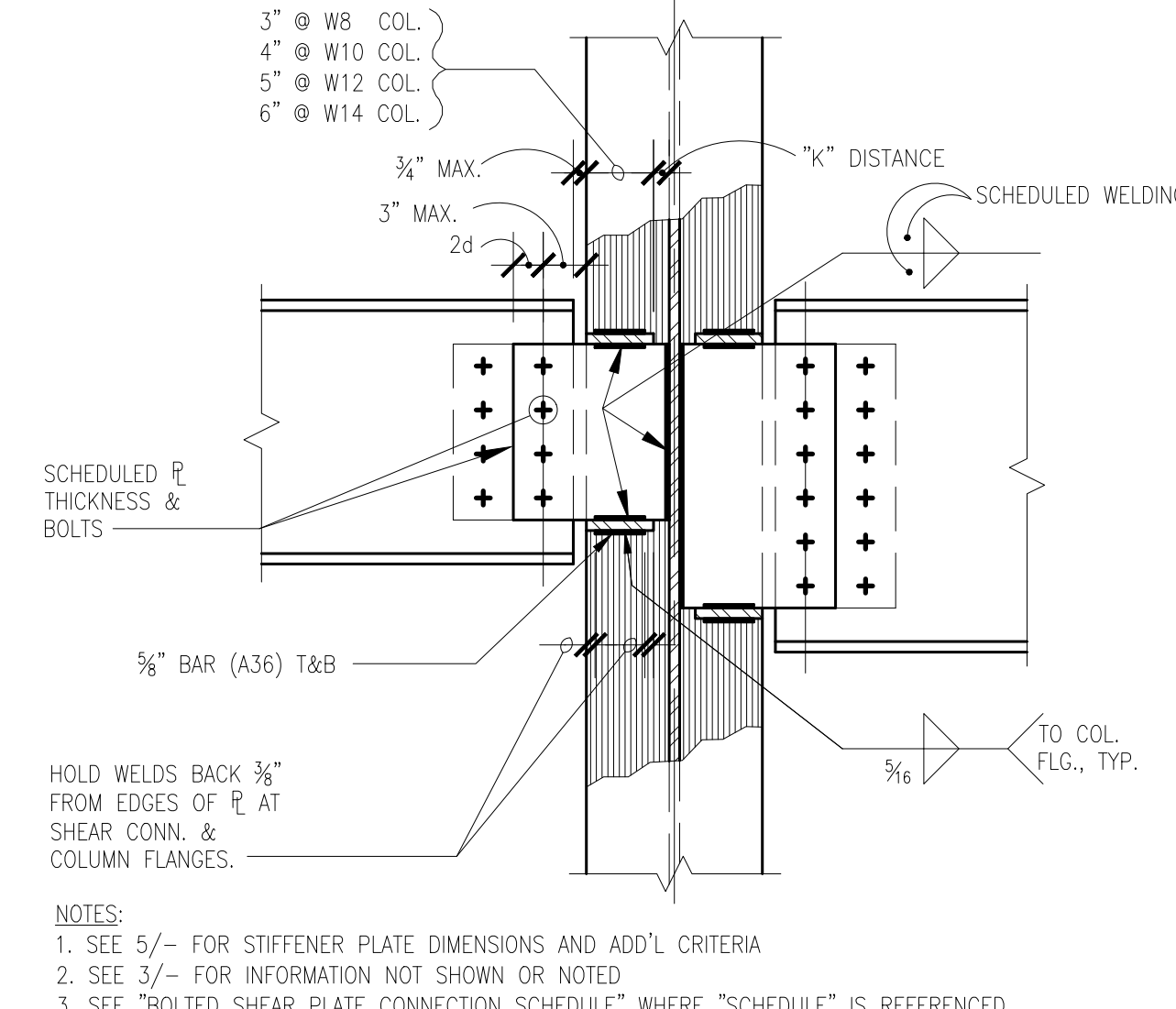
TYPICAL BEAM CONTINUOUS OVER HSS COLUMN NO SCALE **16**



TYPICAL INTERIOR WF BEAM TO HSS COLUMN NO SCALE **12**



TYP. MOMENT CONN. OF BEAM TO COLUMN WEB (NON-SEISMIC) NO SCALE **8**

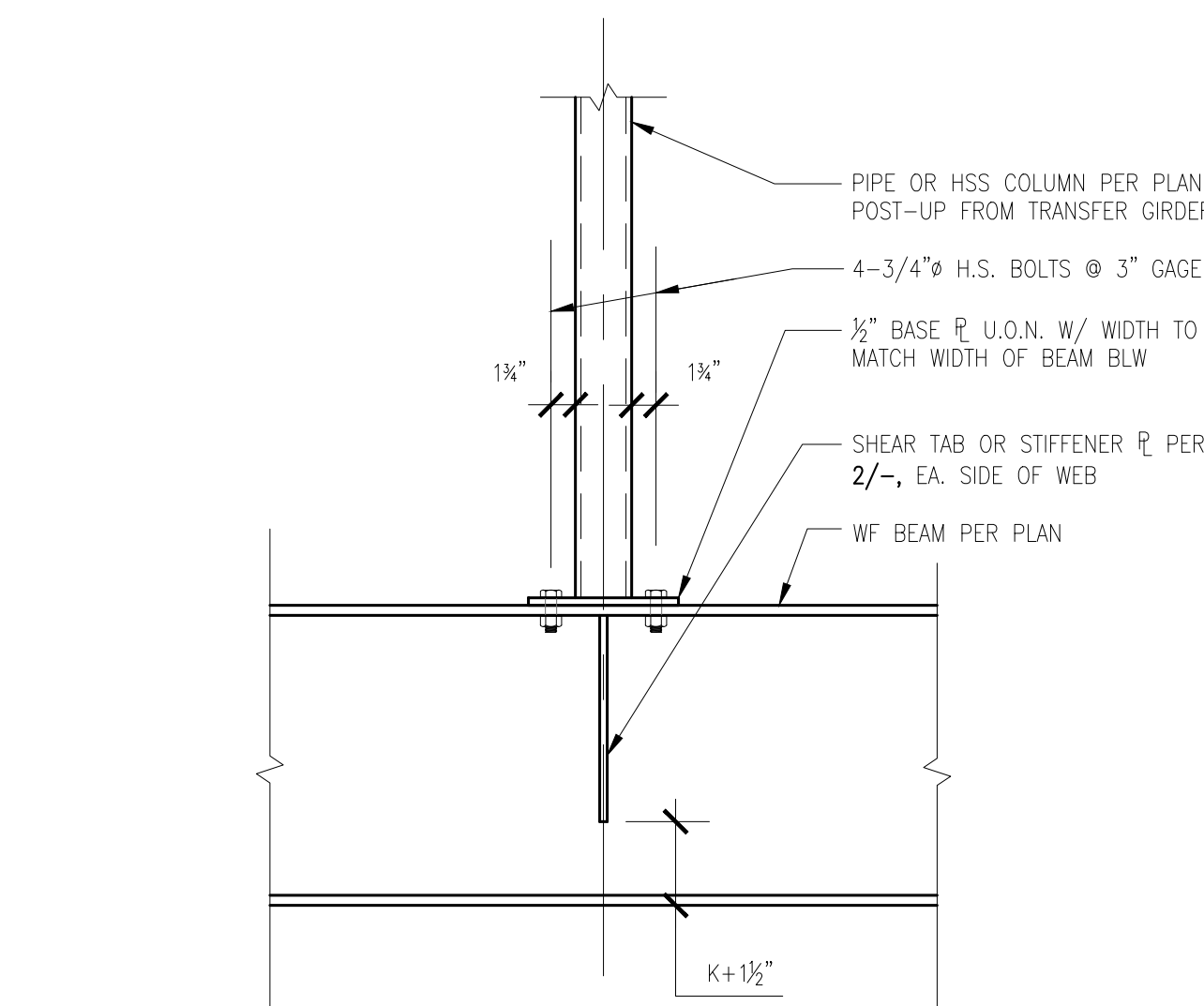


TYP. SIMPLE CONN. OF BEAM TO COL. WEB (FOR SQUARE PROPORTION COLUMNS) NO SCALE **4**

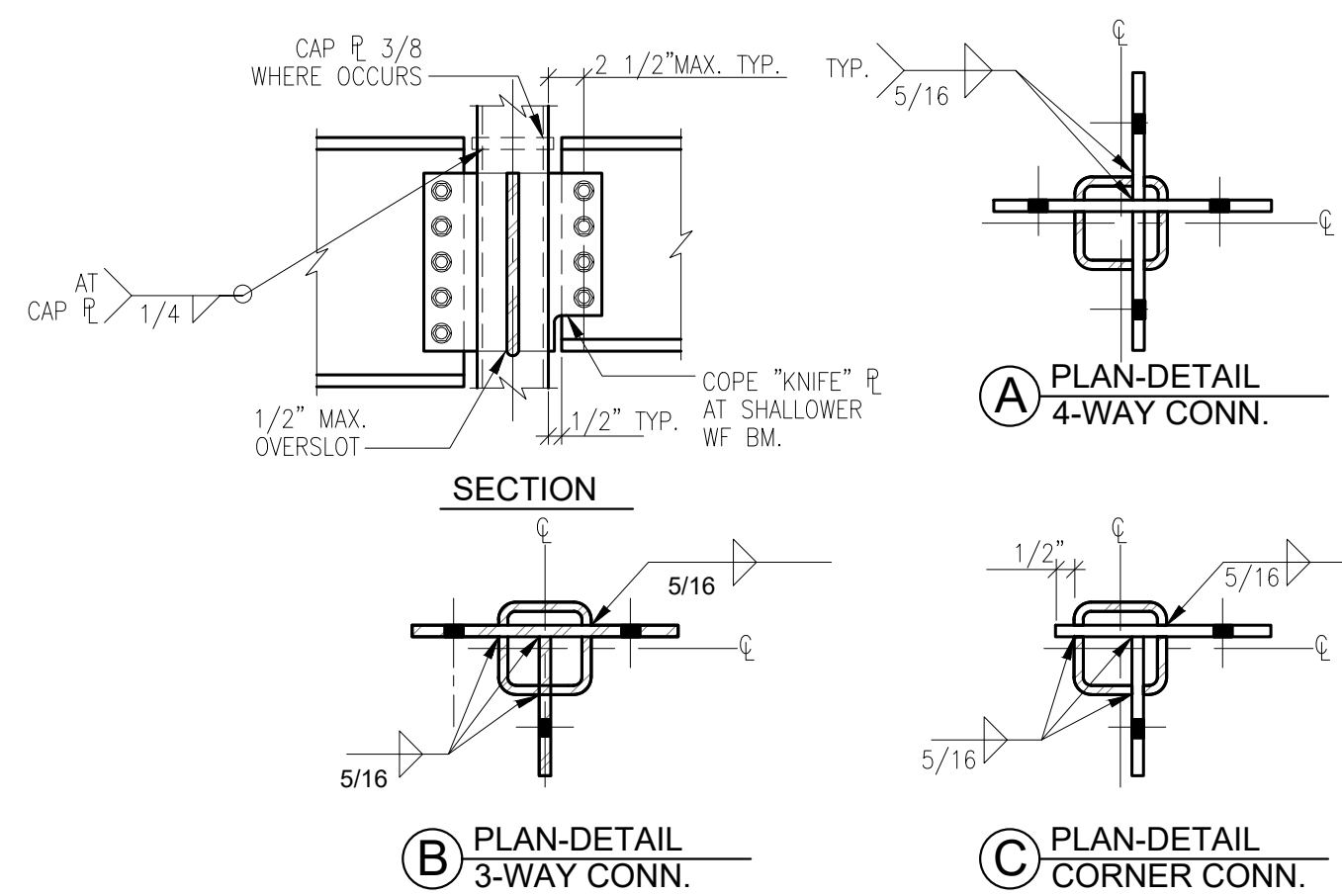
NOTE: OPENINGS 3" IN DIAMETER OR LESS THRU BEAMS OF DEPTH 12" AND GREATER DO NOT REQUIRE PIPE REINFORCING. THEY MUST CONFORM WITH ALL HORIZONTAL AND VERTICAL LOCATION RESTRICTIONS SHOWN ABOVE.

NOTES:
1. FOR INFORMATION NOT SHOWN OR NOTED, SEE DET. 11/-.
2. DETAILS APPLY TO INTERIOR COLUMNS WITH WF BEAMS 16" OR LESS U.O.N. ON PLAN.
3. FOR EXTERIOR COLS. & COLS. W/ WF BMS GREATER THAN 16" DEEP, SEE DET. 11/-.

NOTES:
1. SEE 5/- FOR STIFFENER PLATE DIMENSIONS AND ADD'L CRITERIA
2. SEE 3/- FOR INFORMATION NOT SHOWN OR NOTED
3. SEE "BOLTED SHEAR PLATE CONNECTION SCHEDULE" WHERE "SCHEDULE" IS REFERENCED.
4. WHERE COL. FLANGE WIDTH IS TOO NARROW TO INSTALL TOP & BOT. E's NOTED, INSTALL FITTED STIFF. E's

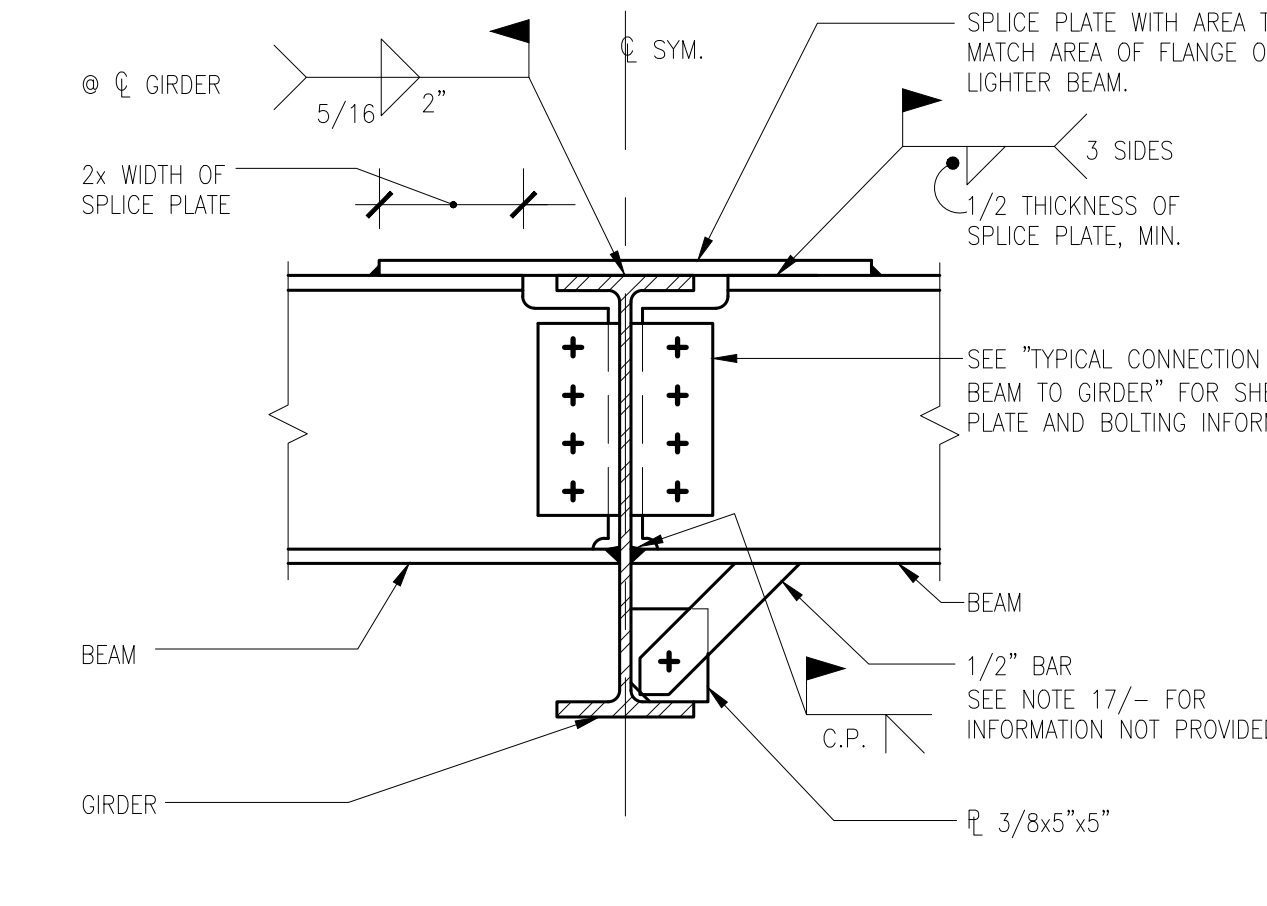


TYPICAL BASE PLATE CONNECTION AT POST-UP COLUMNS NO SCALE **15**



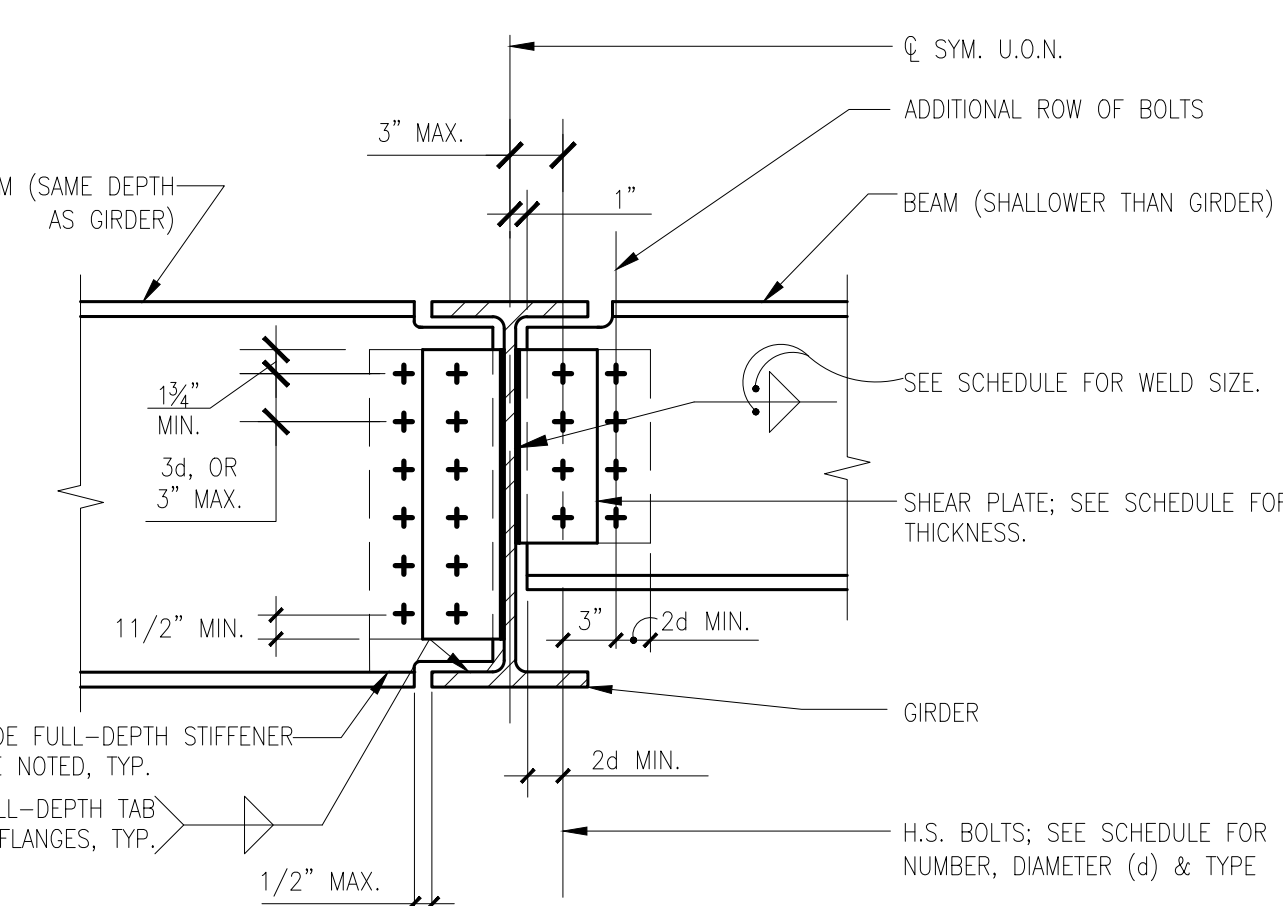
TYPICAL CONNECTION OF WF BEAM(S) TO HSS TUBE COLUMN NO SCALE **11**

NOTES:
1. FOR REQ. DIMENSIONS, BOLTS, WELDS, SHEAR TAB SIZE AND OTHER INFO. NOT SHOWN OR NOTED, SEE DET. 2/- AND DET. 3/-.
2. SLOTTED KNIFE E.
3. KNIFE E. THICKNESS SAME AS SHEAR TAB THICKNESS PER SCHED. 2/-
4. CONTRACTOR'S OPTION: DET. 12/- MAY BE USED AT INT. COLUMNS FOR BEAMS 16" DEEP OR LESS.



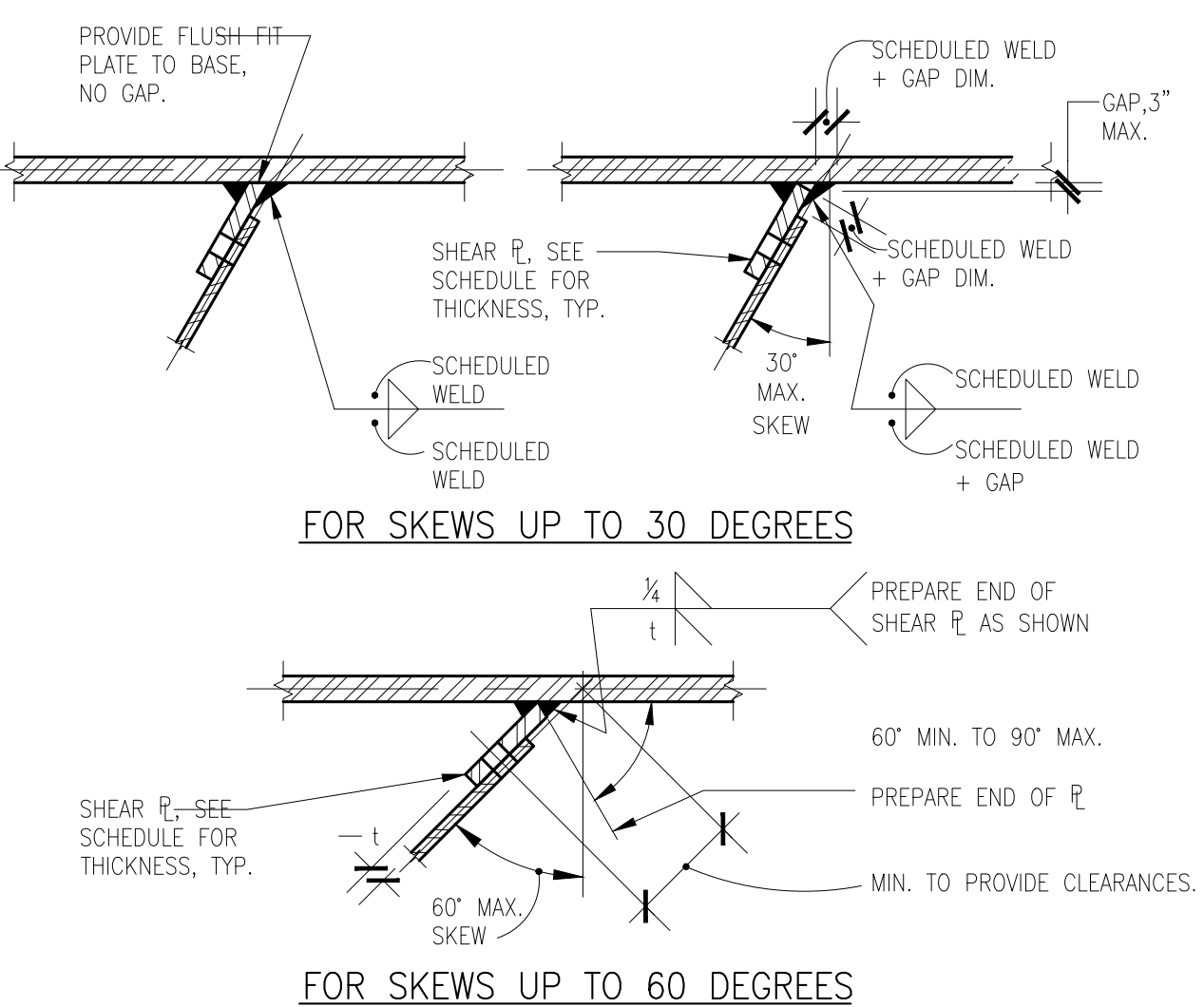
TYP. MOMENT CONNECTION OF BEAM TO GIRDER (NON-SEISMIC) 1"-1'-0" NO SCALE **7**

NOTES:
1. BUTT WELDED TOP FLANGES MAY BE SUBSTITUTED FOR SPLICE PLATE WHERE GIRDER FLANGE IS THICKER THAN BEAM FLANGE.
2. HIGHLIGHT SPLICE PLATE ON SHOP DRAWINGS FOR REVIEW BY ENGINEER.
3. WHEN DEPTH OF BEAM IS SAME AS DEPTH OF GIRDER, USE SPLICE PLATE ON BOTTOM FLANGE SIMILAR TO TOP FLANGE. SHIM AS REQUIRED.
4. PROVIDE ADDITIONAL ROW OF BOLTS WHEN SHOWN THUS ON PLAN.
5. DELETE BAR IF n IS 8" OR LESS.



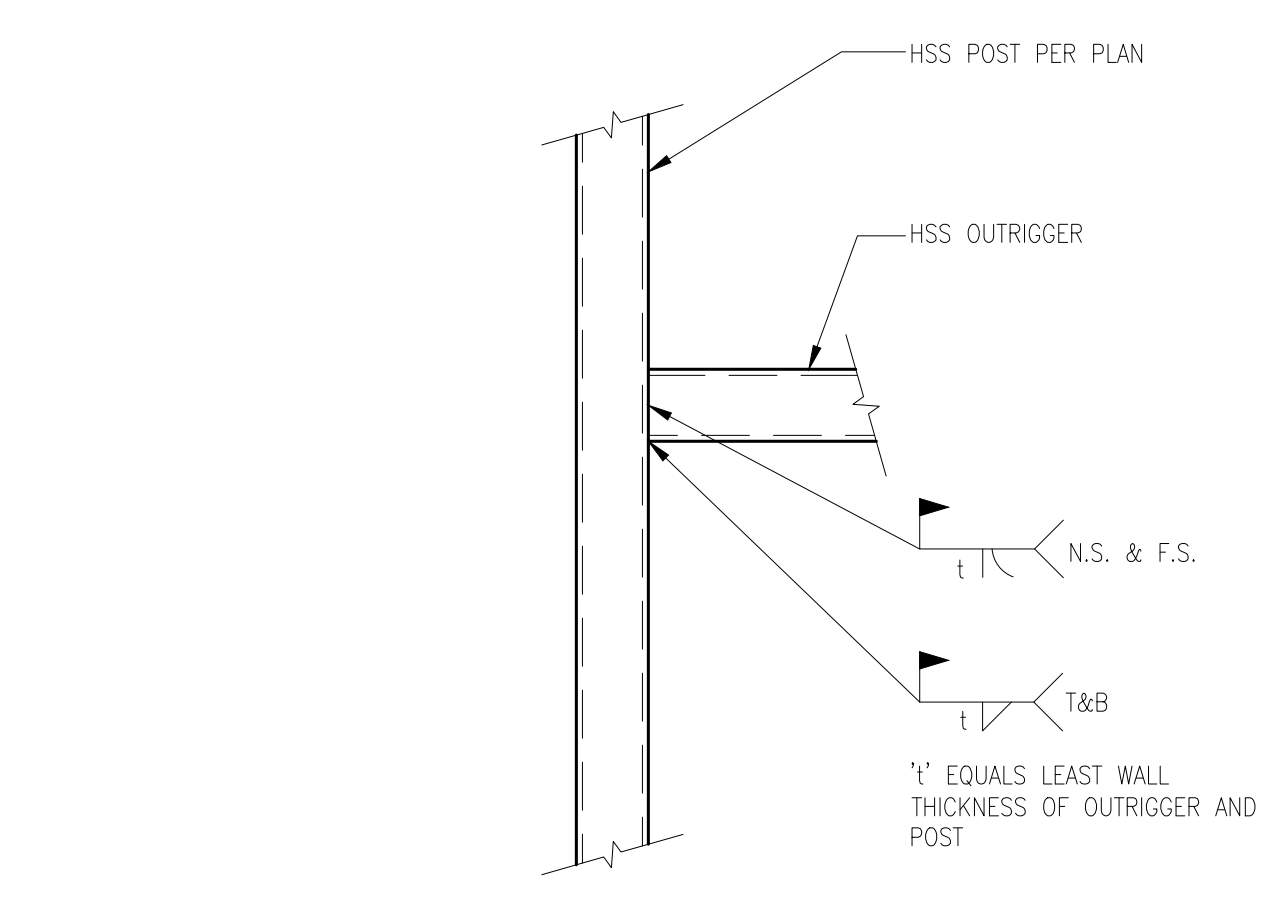
TYPICAL CONNECTION OF BEAM TO GIRDER NO SCALE **3**

NOTES:
1. SEE "BOLTED SHEAR PLATE SCHEDULE" WHERE "SCHEDULE" IS REFERENCED.
2. ONE SIDED CONNECTION OF BEAM TO GIRDER IS SIMILAR.
3. WHERE BEAM IS DEEPER THAN GIRDER, USE NUMBER OF BOLTS BASED ON GIRDER DEPTH.
4. PROVIDE ADDITIONAL ROW OF BOLTS WHERE SHOWN THUS ON PLAN.
5. FOR REQ'D DIMENSIONS, BOLTS, WELDS, SHEAR TAB SIZE AND OTHER INFO. NOT SHOWN OR NOTED, SEE DET. 1/- AND DET. 2/-.

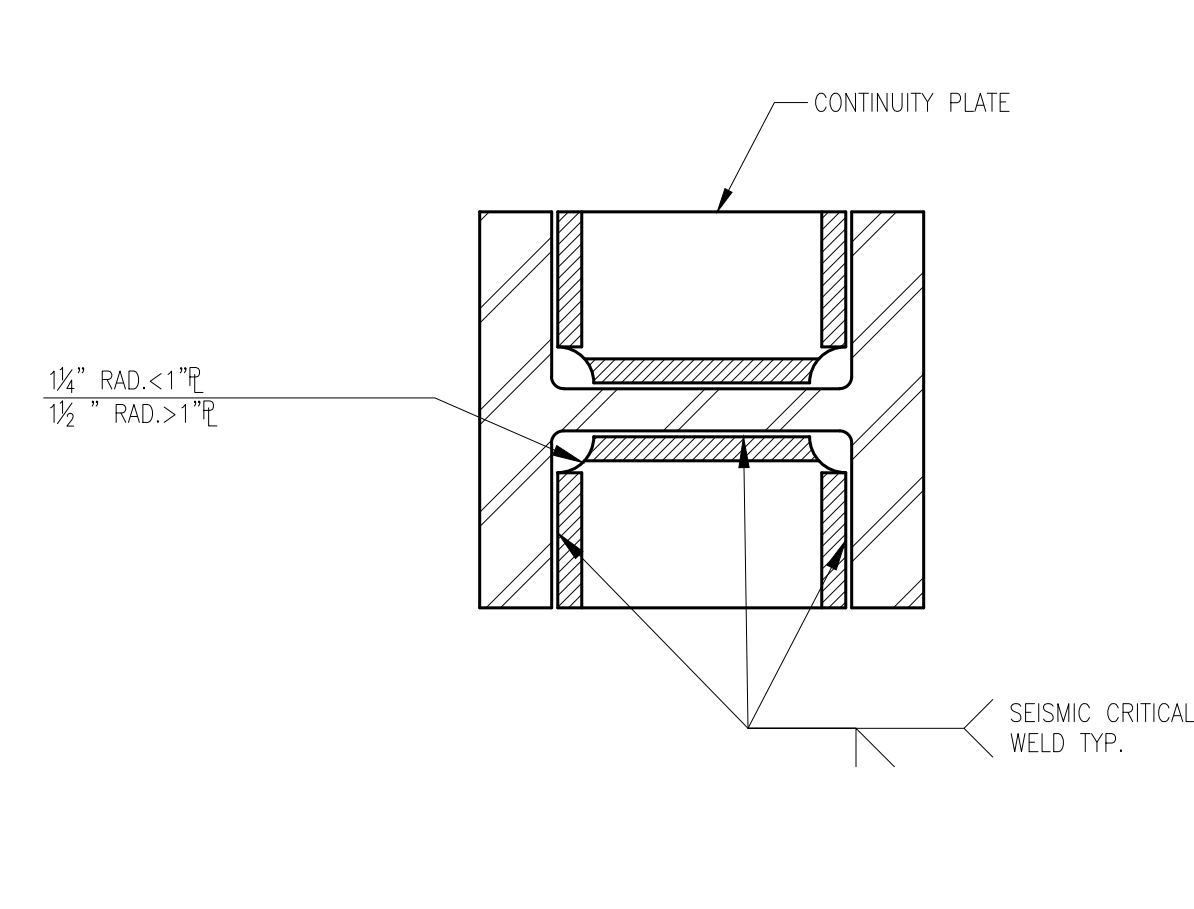


SHEAR CONNECTOR PLATES AT SKEWED BEAMS CONNECTION NO SCALE **18**

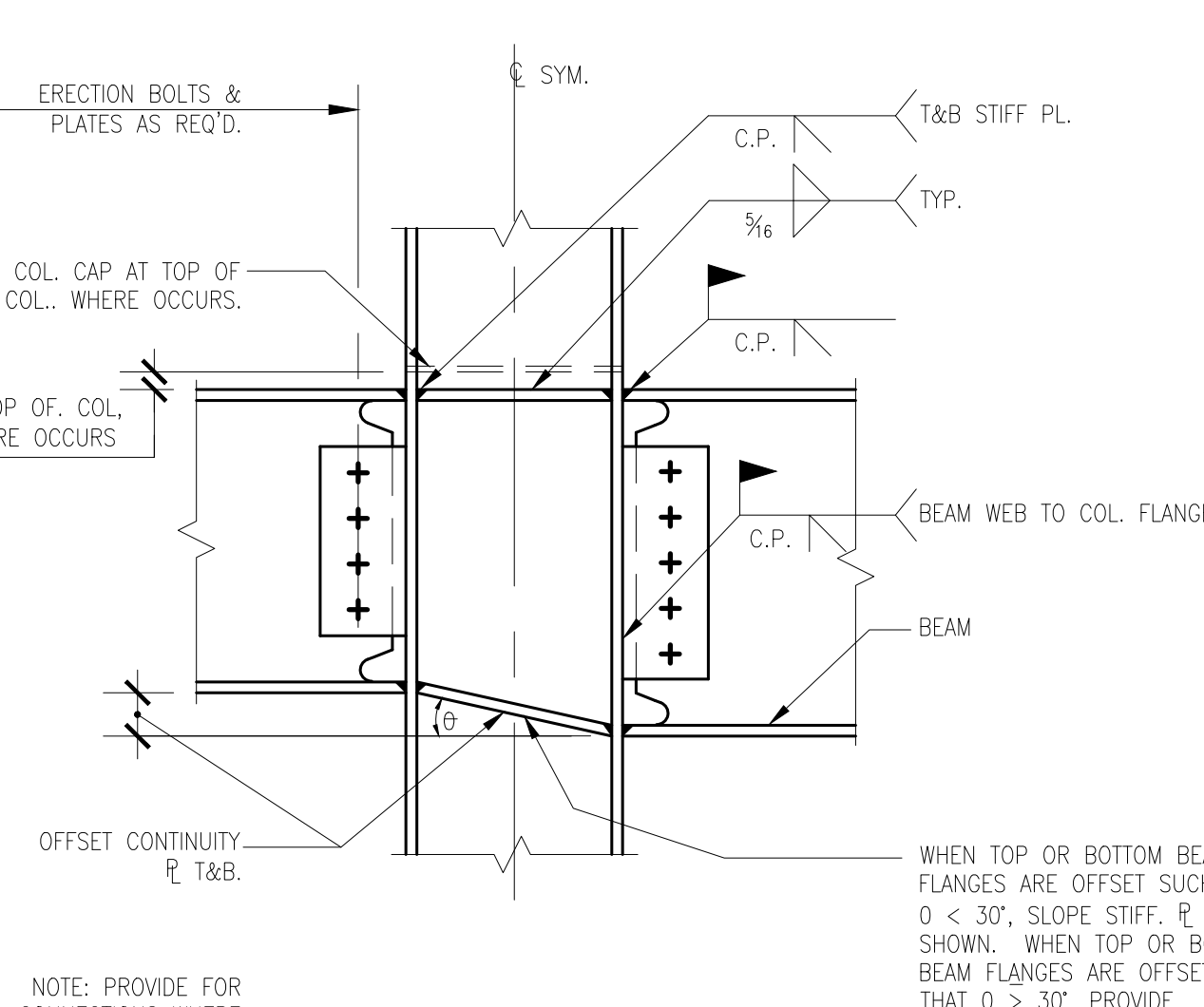
NOTES:
1. SEE "BOLTED SHEAR PLATE CONNECTION SCHEDULE" WHERE "SCHEDULE" IS REFERENCED.
2. SEE APPLICABLE BEAM CONNECTION DETAIL FOR INFORMATION NOT SPECIFIED.



TYP. HSS BEAM TO HSS COLUMN (MOMENT NON-SEISMIC) NO SCALE **14**



TYP. COLUMN CONTINUITY PLATE NO SCALE **10**



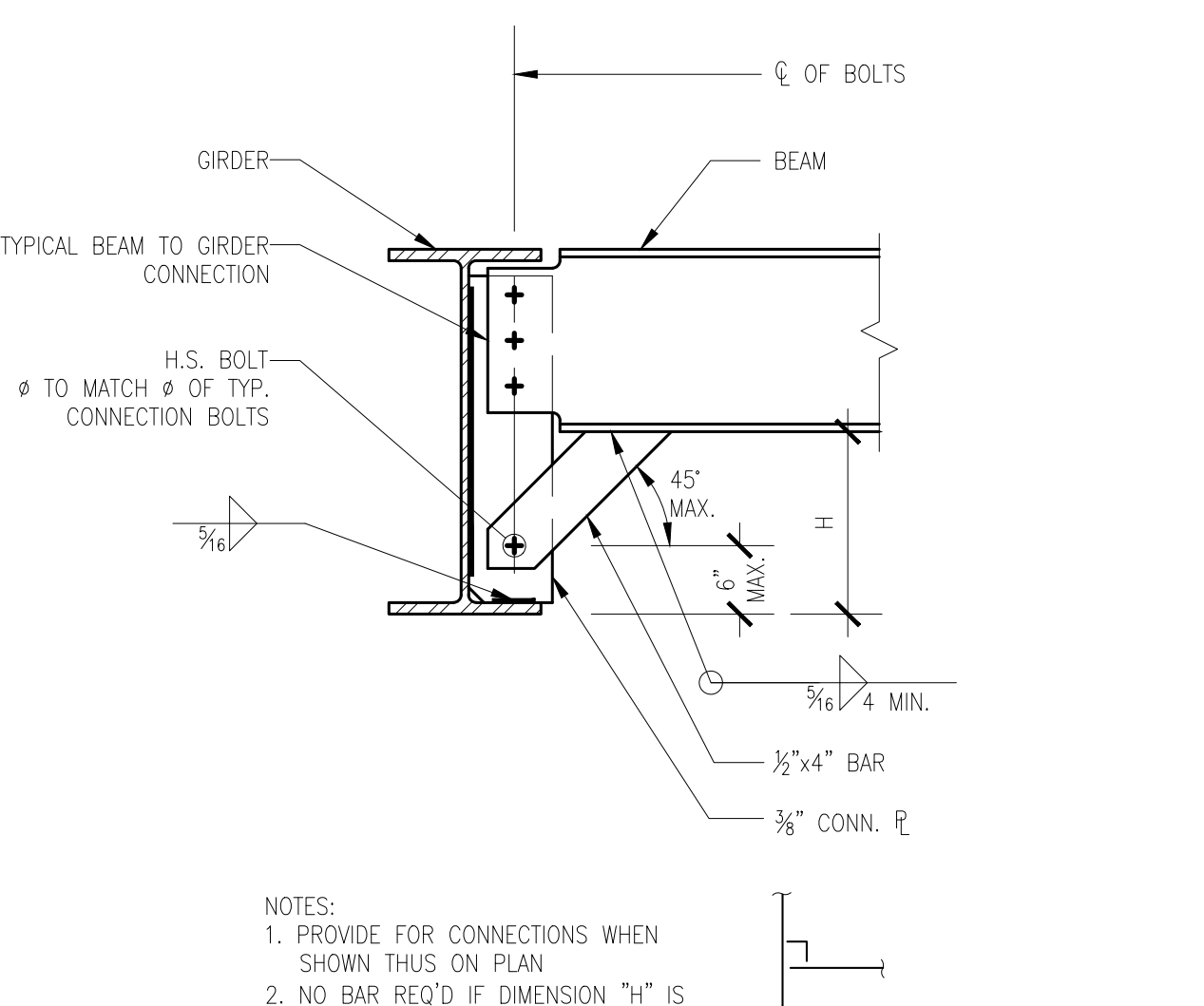
TYP. MOMENT CONNECTION OF BEAM TO COLUMN FLANGE (NON-SEISMIC) NO SCALE **6**

NOTE: PROVIDE FOR CONNECTIONS WHERE SHOWN THUS ON PLAN.

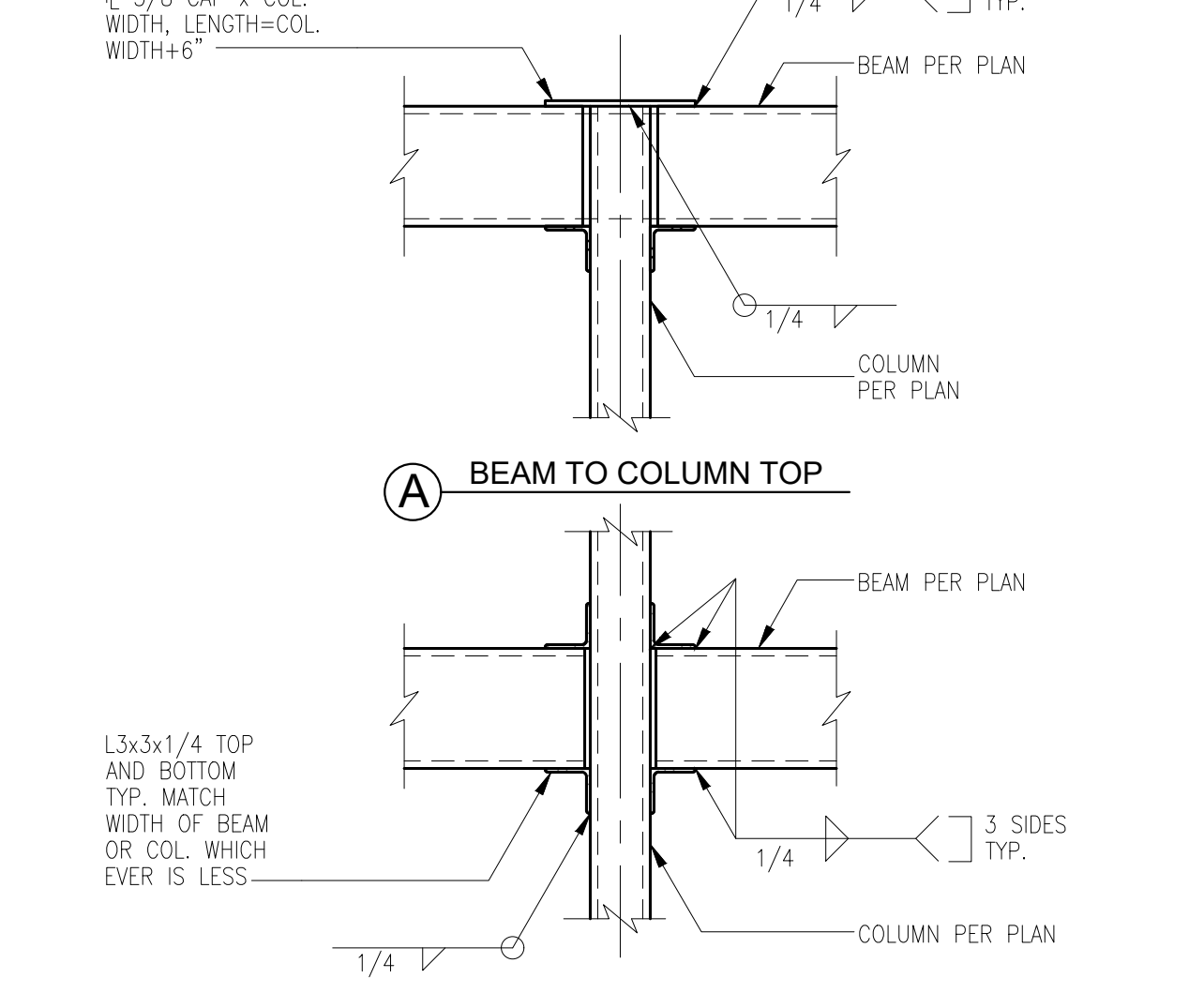
BEAM SIZE	NO. OF BOLTS	SHEAR PLATE THICKNESS (INCHES)	WELD SIZE (INCHES)
WB, W10, C8, C10	2	3/8	3/8
W12, W14, C12	3	3/8	3/8
W16, W18	4	3/8	3/8
W21	5	3/8	3/8
W24	6	3/8	3/8
W27	7	3/8	3/8
W30	8	3/8	3/8
W33	9	3/8	3/8
W36	10	3/8	3/8

TYP. BOLTED SHEAR PLATE CONN. SCHEDULE NO SCALE **2**

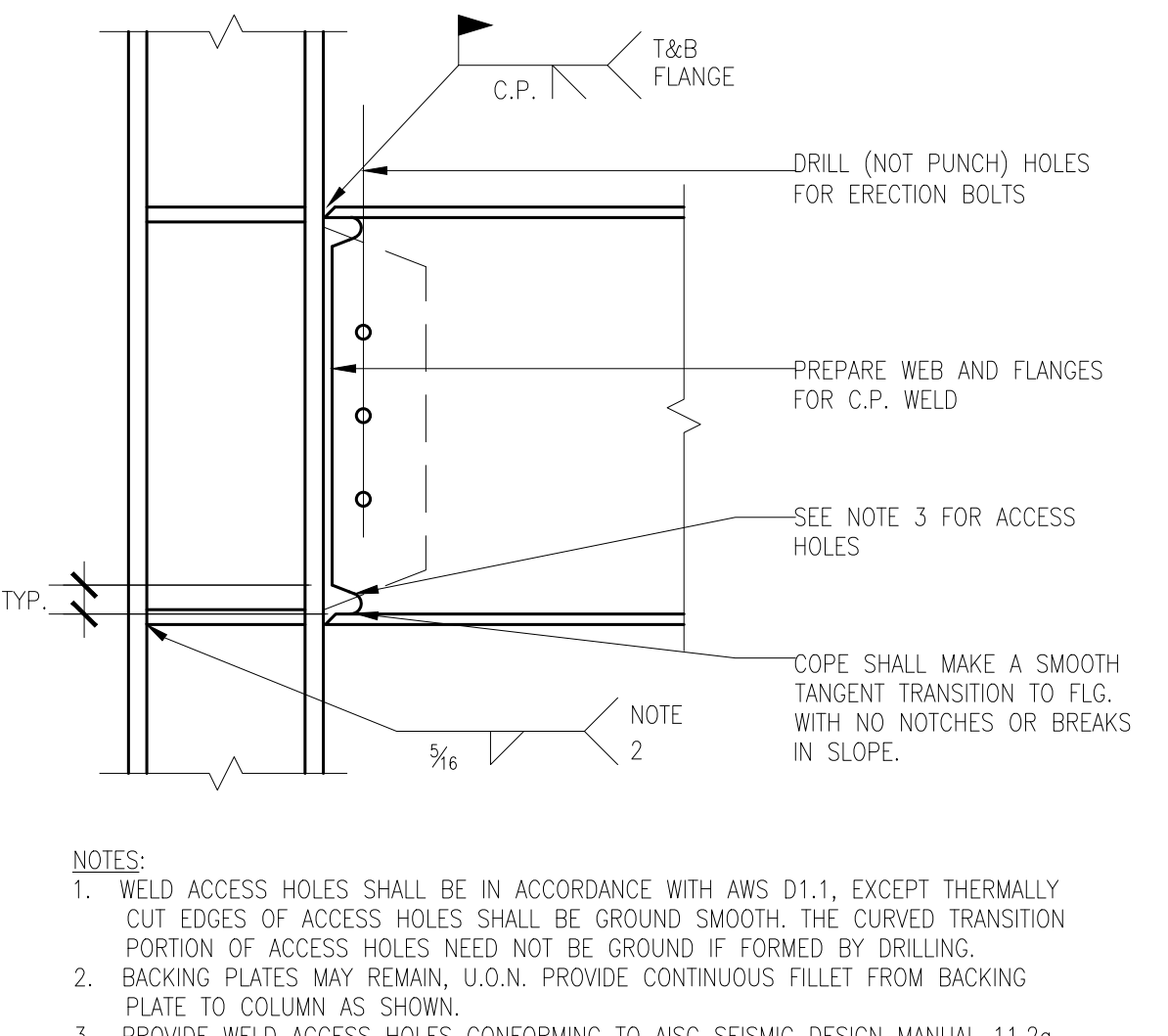
NOTES:
1. SCHEDULE AND NOTES APPLY TYPICALLY, EXCEPT AS OTHERWISE NOTED IN SPECIFIC DETAILS
2. BOLTS SHALL BE 3/8" A325-X, TIGHTEN BOLTS SNUG TIGHT PLUS 1/2 TURN OF THE NUT, U.O.N.
3. SHEAR PLATES SHALL BE A36 STEEL
4. INSTALL BOLTS IN STANDARD HOLES, U.O.N.
5. WHERE INDICATED ON THE PLANS OR DETAILS AS PART OF THE LATERAL FORCE RESISTING SYSTEM, PROVIDE TWIST-OFF TYPE TENSION CONTROLLED BOLTS. USE X" FILLET, UNLESS GREATER WELD IS SPECIFIED, AND 1/2" GR. 50 SHEAR TAB. SEE SD.01 & SD.02 FOR ADD'L REQUIREMENTS



TYP. BOTTOM FLANGE BRACING DET. NO SCALE **17**

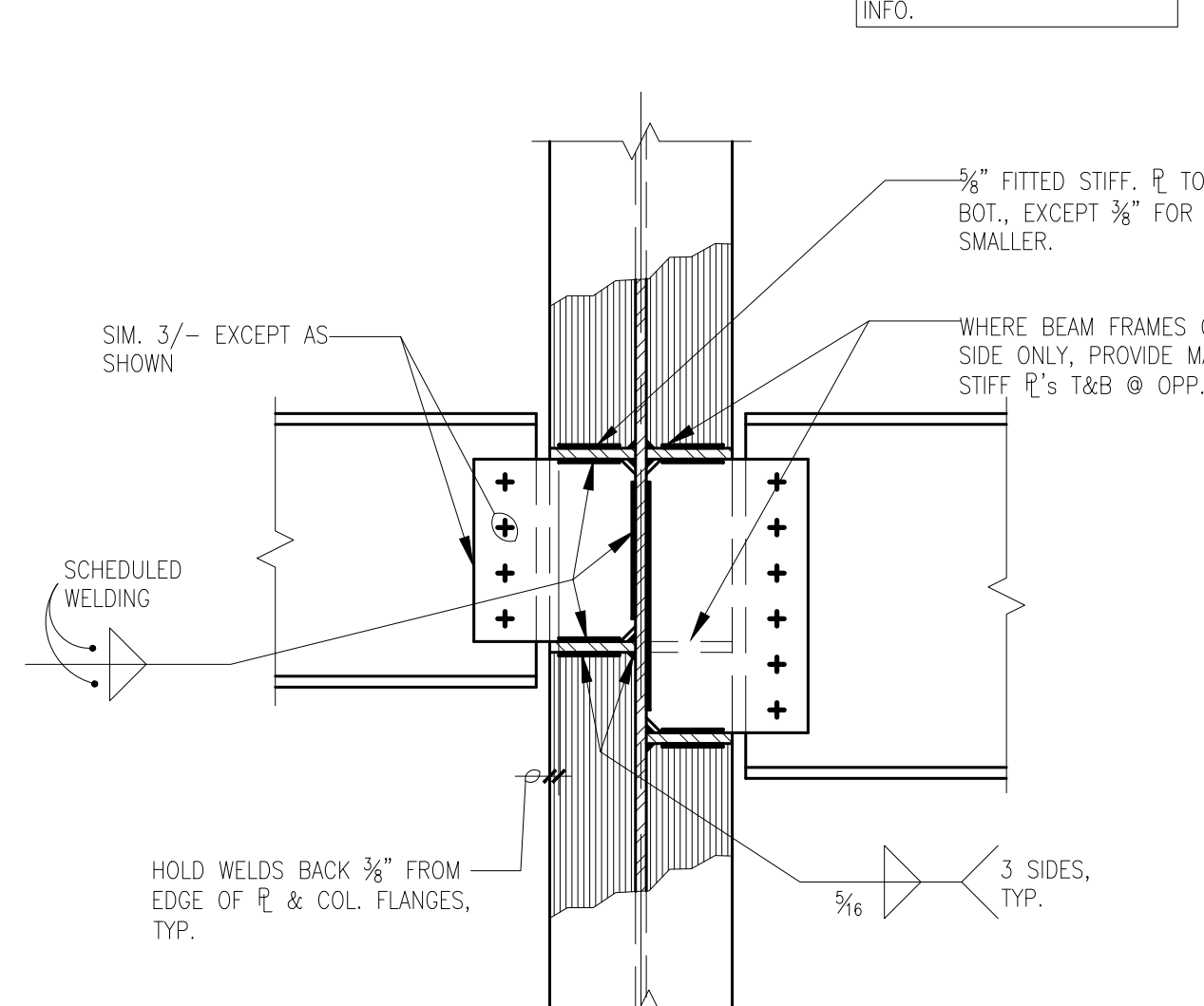


TYPICAL HSS BEAM TO HSS COLUMN CONNECTION NO SCALE **13**

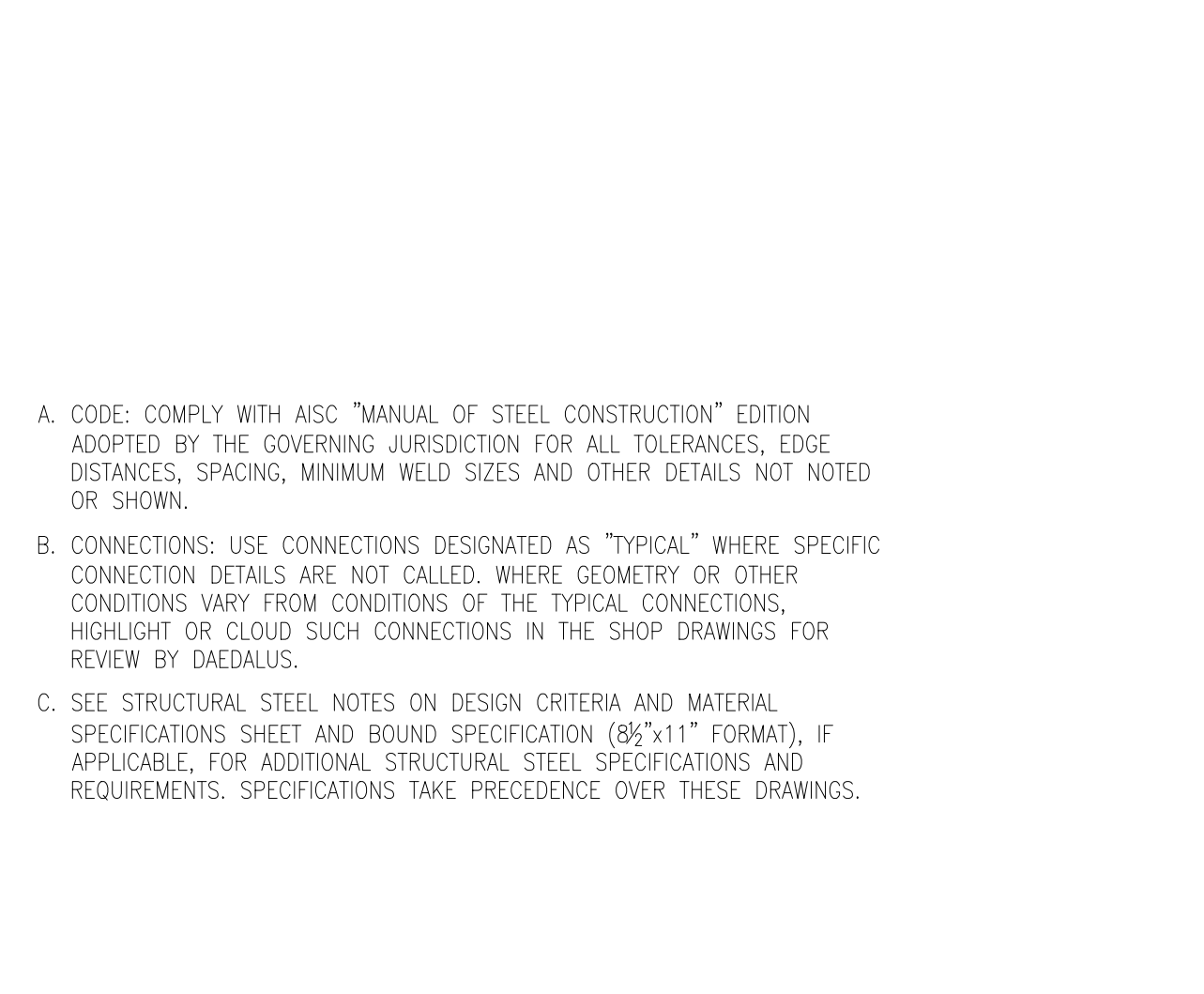


TYP. MOMENT CONNECTION OF BM. TO COLUMN FLANGE (SEISMIC) 1"-1'-0" NO SCALE **9**

NOTES:
1. WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AWS D11, EXCEPT THERMALLY CUT EDGES OF ACCESS HOLES SHALL BE GRIND SMOOTH. THE CURVED TRANSITION PORTION OF ACCESS HOLES NEED NOT BE GRIND IF FORMED BY DRILLING.
2. BACKING PLATES MAY REMAIN, U.O.N. PROVIDE CONTINUOUS FILLET FROM BACKING PLATE TO COLUMN AS SHOWN.
3. PROVIDE WELD ACCESS HOLES CONFORMING TO AISC SEISMIC DESIGN MANUAL 11.2a.
4. PROVIDE WHERE SHOWN THUS ON PLAN



TYP. SIMPLE CONN. OF BEAM TO COL. WEB (COL. FLG. WIDTH < COL. DEPTH) 1"-1'-0" NO SCALE **5**

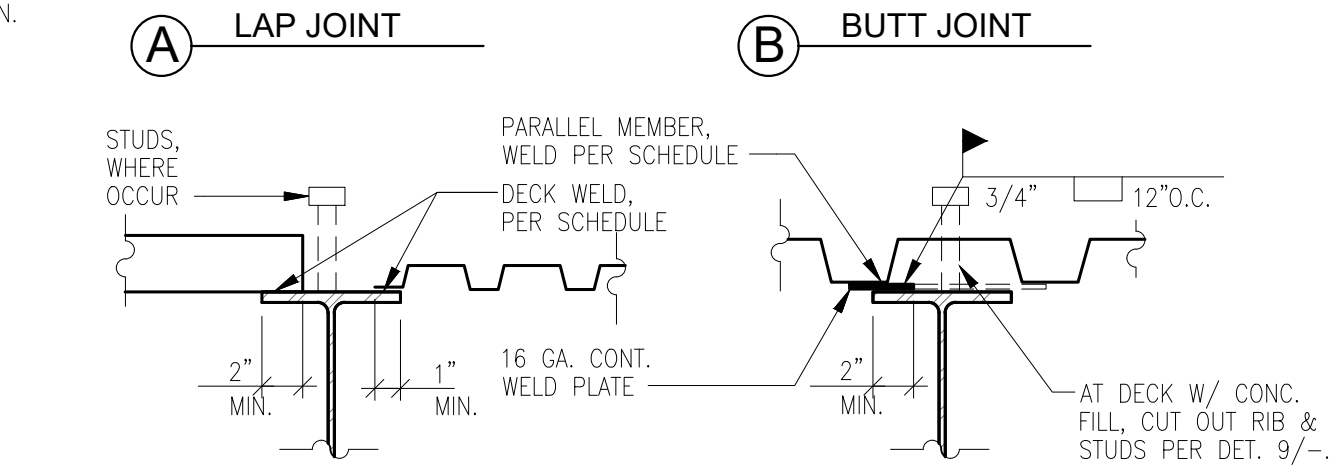
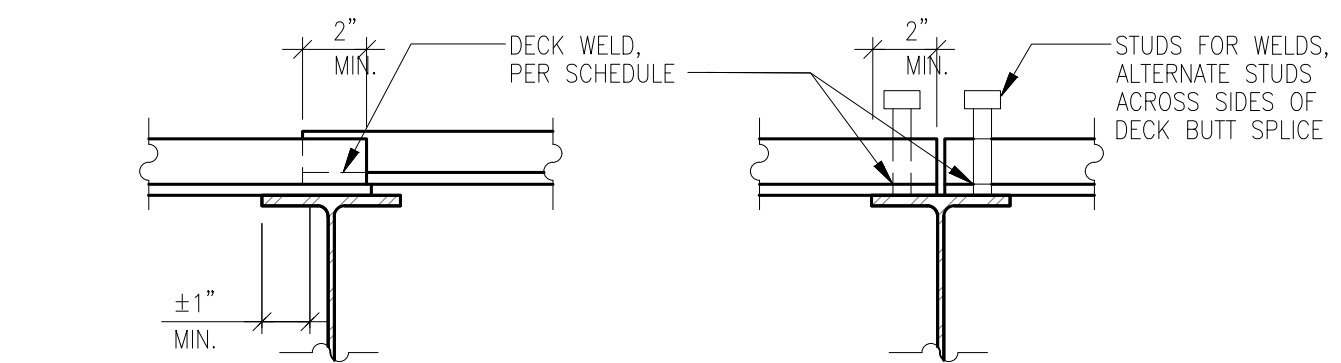


STEEL FRAMING NOTES NO SCALE **1**

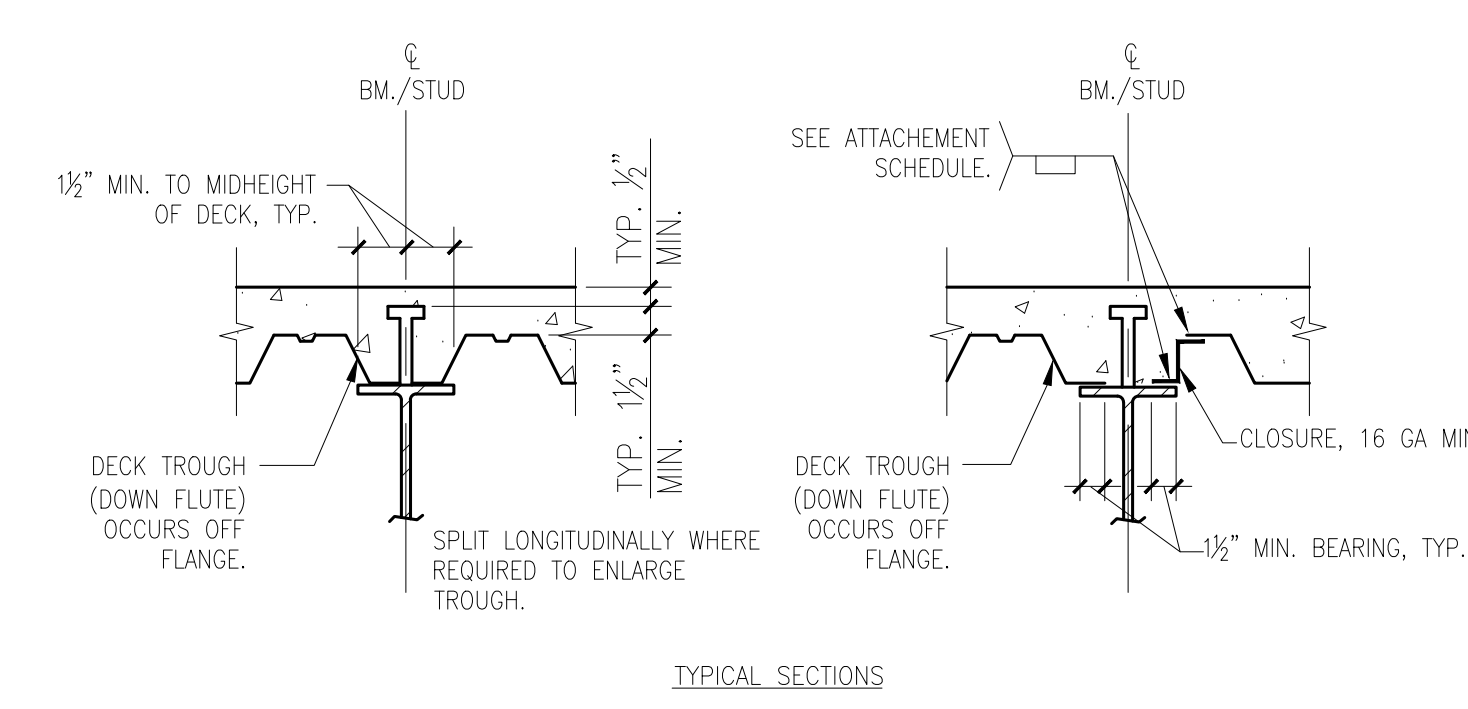
A. CODE: COMPLY WITH AISC "MANUAL OF STEEL CONSTRUCTION" EDITION ADOPTED BY THE GOVERNING JURISDICTION FOR ALL TOLERANCES, EDGE DISTANCES, SPACING, MINIMUM WELD SIZES AND OTHER DETAILS NOT NOTED OR SHOWN.
B. CONNECTIONS: USE CONNECTIONS DESIGNATED AS "TYPICAL" WHERE SPECIFIC CONNECTION DETAILS ARE NOT CALLED. WHERE GEOMETRY OR OTHER CONDITIONS VARY FROM THOSE OF THE TYPICAL CONNECTIONS, HIGHLIGHT OR CLOUD SUCH CONNECTIONS IN THE SHOP DRAWINGS FOR REVIEW BY DAEDALUS.
C. SEE STRUCTURAL STEEL NOTES ON DESIGN CRITERIA AND MATERIAL SPECIFICATIONS SHEET AND BOUND SPECIFICATION (8 1/2" X 11" FORMAT), IF APPLICABLE. FOR ADDITIONAL STRUCTURAL STEEL SPECIFICATIONS AND REQUIREMENTS, SPECIFICATIONS TAKE PRECEDENCE OVER THESE DRAWINGS.

NOTE:

1. SEE 3/- & STEEL DECK NOTES AND DECK SCHEDULE FOR COMPLETE INFORMATION.

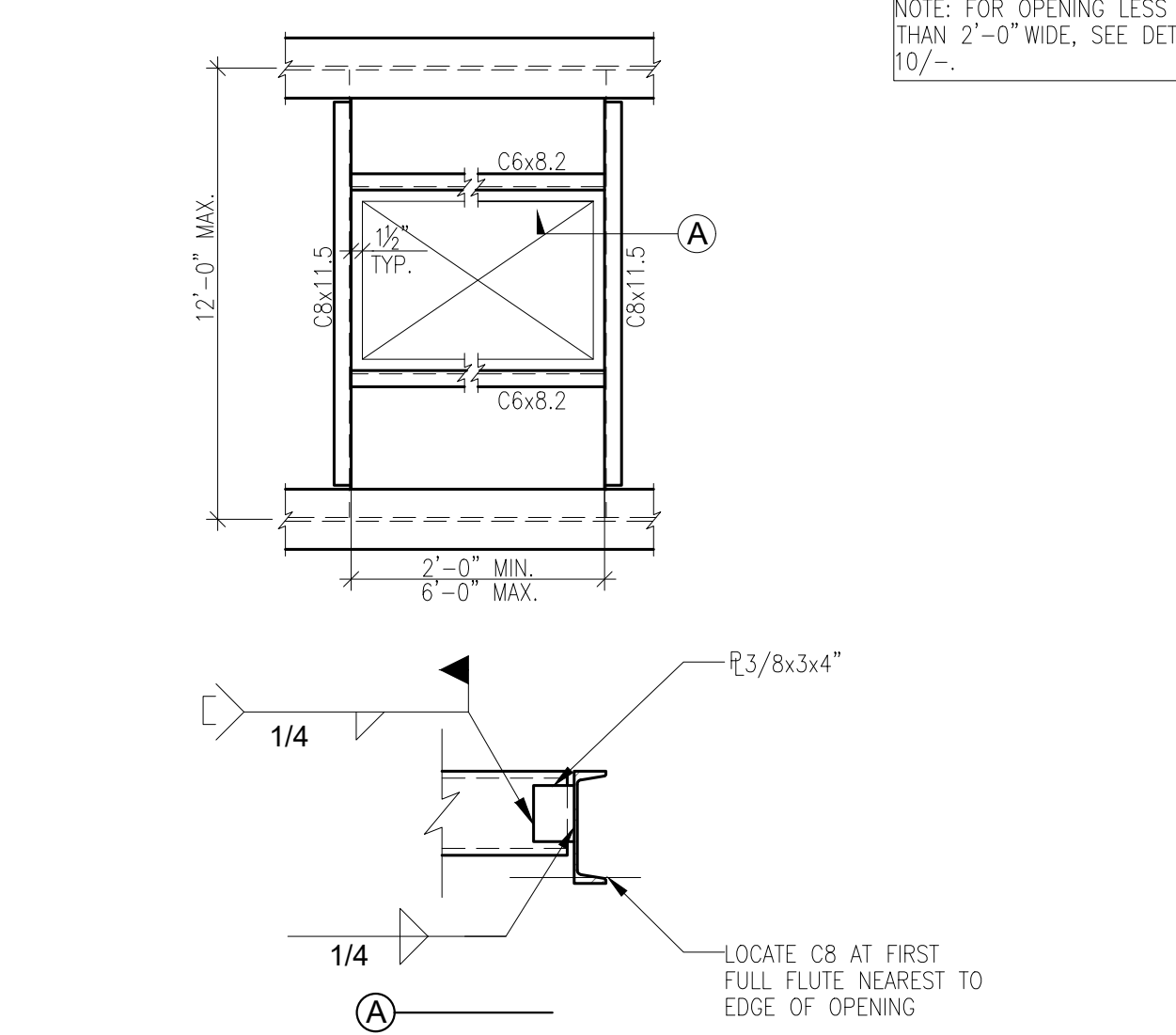


TYPICAL DECK ATTACHMENT NO SCALE 4

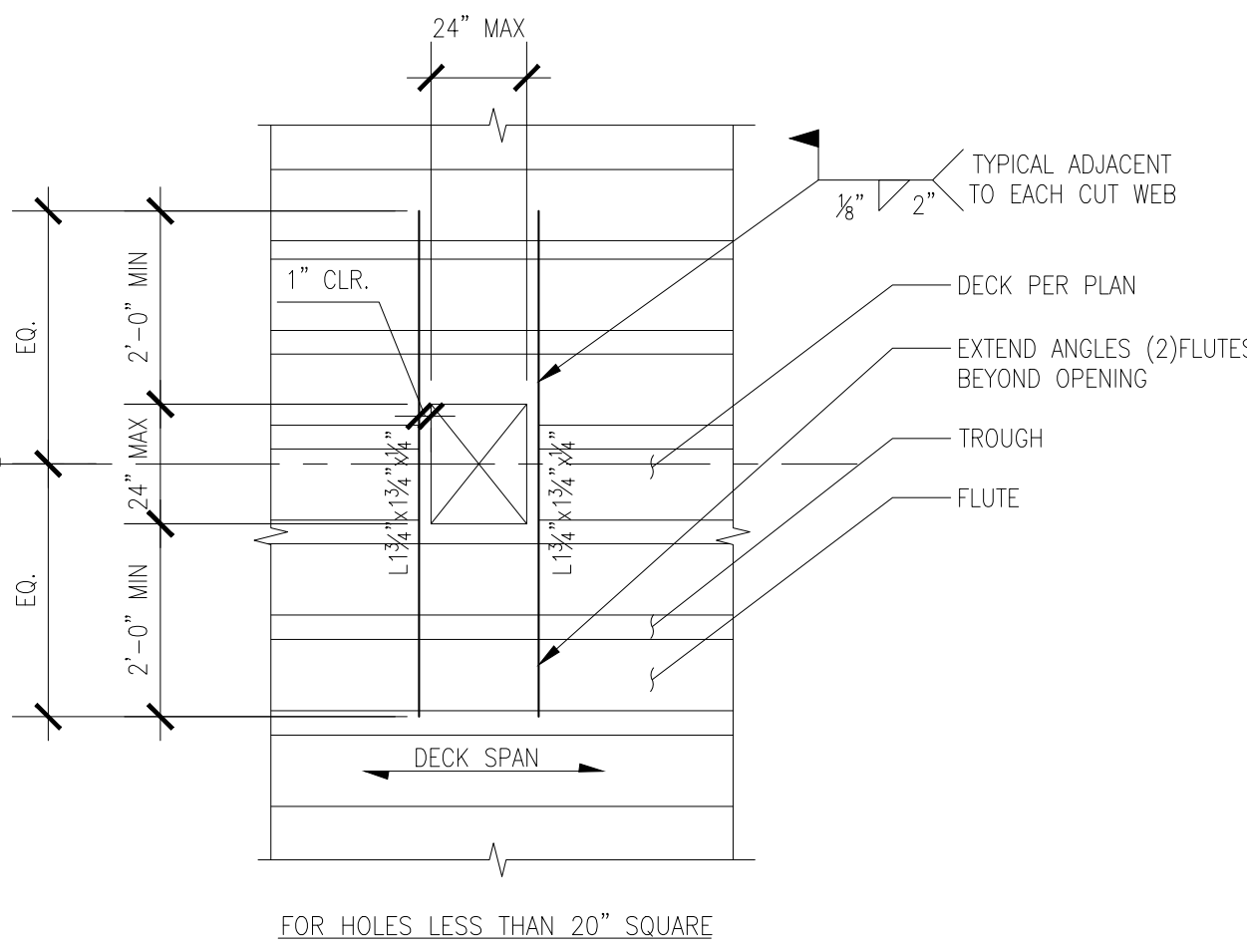


TYPICAL SHEAR STUD CONNECTOR 1"=1'-0" 8

TYP. DECK SLOPE CHANGE AT WF BEAM 1 1/2" = 1'-0" 12



TYPICAL REBAR PLACEMENT 1"=1'-0" 7



TYPICAL STEEL DECK ATTACHMENT LOCATIONS N.T.S. 3

DECK TYPE	SUPPORT PERPENDICULAR TO DECK RIBS	ATTACHMENT PATTERN	SUPPORT PARALLEL TO DECK RIBS	DECK TO DECK SIDE LAPS
A	FASTEN AT ALL DOWN FLUTES	FASTEN @ 12" O.C.	VERCO PUNCHLOK @ 12" O.C.	
B	FASTEN AT ALL DOWN FLUTES	FASTEN @ 12" O.C.	VERCO PUNCHLOK @ 12" O.C.	
C	FASTEN AT ALL DOWN FLUTES	FASTEN @ 12" O.C.	VERCO PUNCHLOK @ 12" O.C.	

- NOTES:
1. FASTEN DECK TO SUPPORTS WITH EITHER 3/8" PUDDLE WELD OR PNEUMATIC FASTENERS AS FOLLOWS:
A. K64 FASTENERS AT STEEL SUPPORTS WITH 0.187-0.312 INCHES IN THICKNESS
B. K66 FASTENER AT STEEL SUPPORTS WITH 0.281 INCHES AND THICKER.
2. AT CONCRETE OVER STEEL DECK FASTEN DECK TO SUPPORTS WITH 3/4" STUDS AND CONC. FILL.
3. SEE 3/- FOR DECK ATTACHMENT LOCATIONS.

TYPE	GAUGE	DEPTH (MM)	PROFILE	REMARKS
A	18	1 1/2"	0.306	VERCO P18 36 OR APPROVED EQUIVALENT
B	18	3"	1.213	VERCO P18 36 OR APPROVED EQUIVALENT

STEEL DECK MINIMUM PROPERTIES AND ATTACHMENT SCHEDULE NO SCALE 2

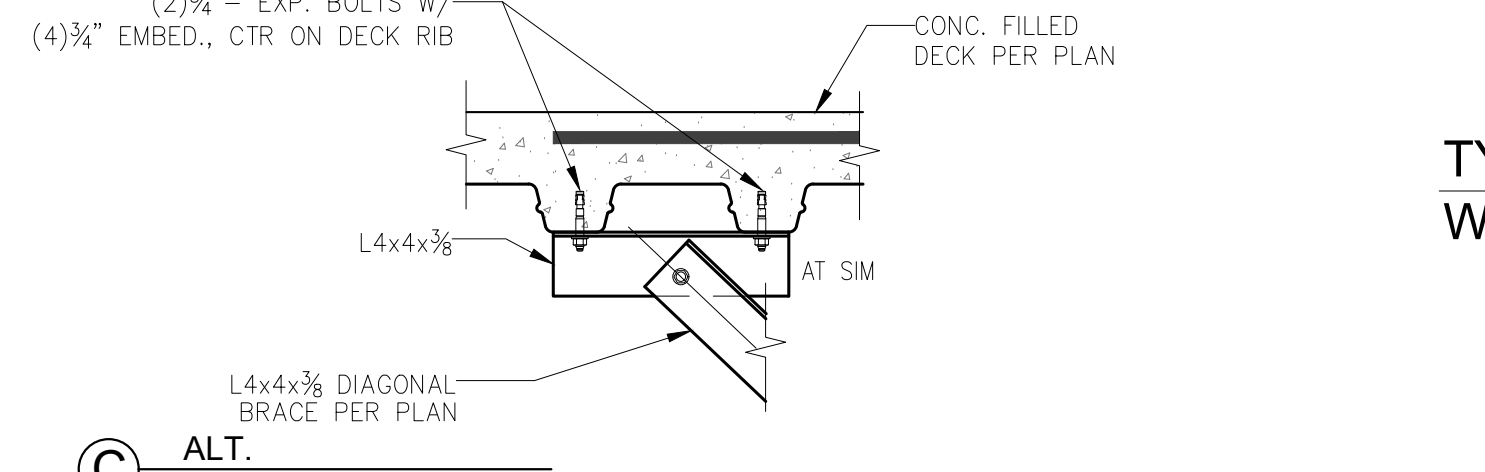
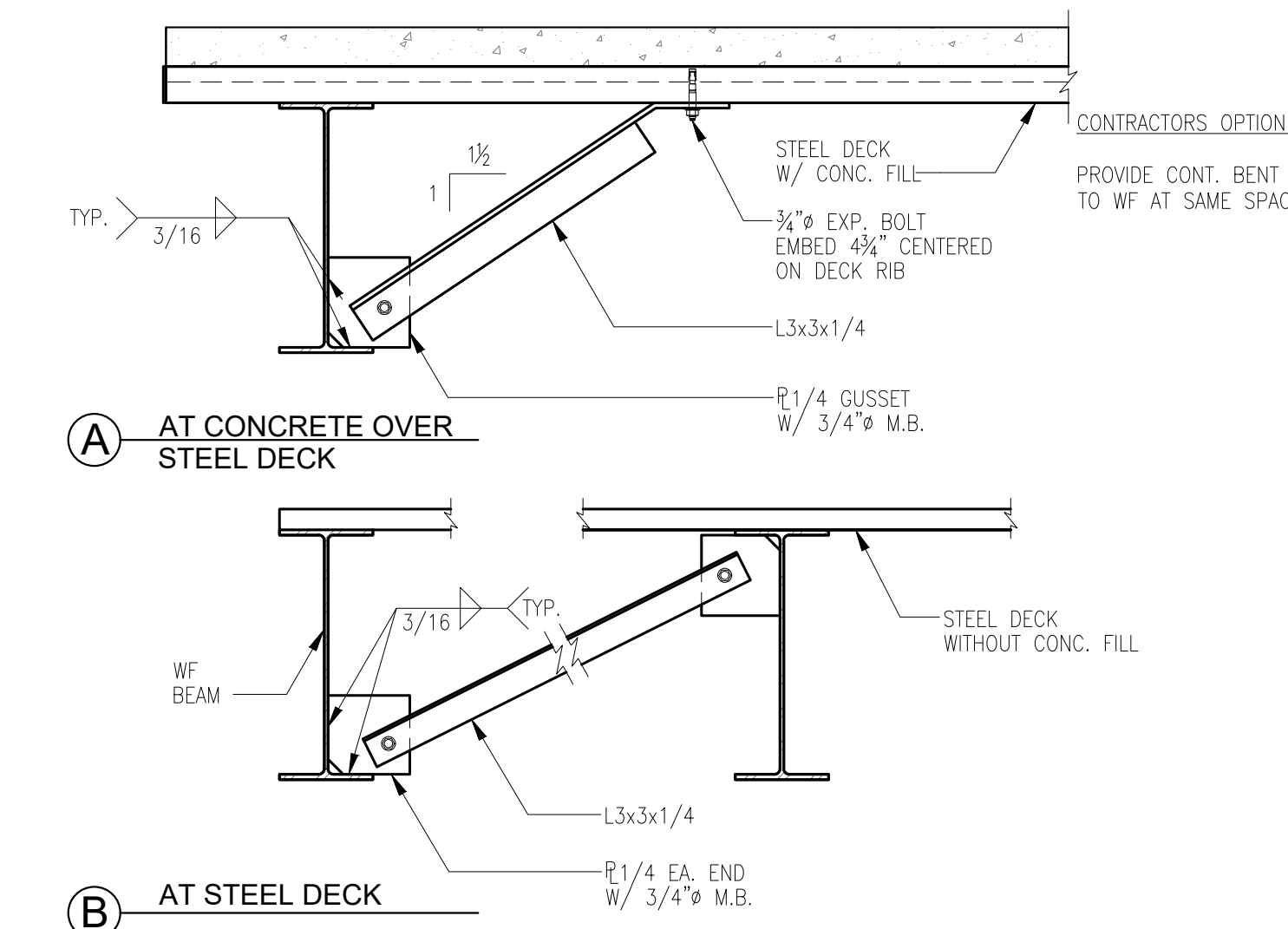
- STEEL DECK & STUD NOTES:
1. AT ALL ROOF EAVES AND WHERE POSSIBLE, DECK LAYOUT SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO CONTINUOUSLY SPAN AT LEAST THREE SPANS. ENDS SHALL TERMINATE ON A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR ROOF EAVES WHERE DECKS MAY BE CANTILEVERED AS SHOWN.
2. DECK SHALL HAVE A MINIMUM BEARING OF 2" AT ALL SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1/2" AT ALL MEMBERS PARALLEL TO DECK SPAN.
3. WHERE TWO ADJACENT DECK SHEETS ARE SUPPORTED BY ONE FRAMING MEMBER, EACH SHEET SHALL INDIVIDUALLY SATISFY THE REQUIREMENTS OF NOTE 2 AND OF THE ATTACHMENT SCHEDULE.
4. DUCTS, LIGHTS AND OTHER ITEMS, EXCEPT ACOUSTIC TILE CEILINGS, SHALL NOT BE SUPPORTED FROM STEEL DECK UNLESS APPROVED BY ARCHITECT. ANCHORAGE OF APPROVED ITEMS MUST CONFORM WITH DECK MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. ALL WELDED STUDS SHALL BE 3/4" DIAMETER. STUD LENGTH (AS WELDED) SHALL BE 4 1/2" FOR DECK TYPE "A".
7. SHEAR STUDS WELDED THROUGH THE DECK, WITH A MINIMUM CLEARANCE OF 1" FROM THE EDGE OF THE DECK TO THE STUD CENTER LINE, MAY BE SUBSTITUTED ONE FOR ONE FOR DECK WELDS AT AREAS WITH CONCRETE FILL. ALIGN AND SECURE DECK IN POSITION AS REQUIRED BEFORE INSTALLING SHEAR STUDS.
8. ALL BEAMS AND GIRDERS WHICH ARE COVERED BY STEEL DECK AND CONCRETE FILL SHALL HAVE SHEAR STUDS.
9. SEE PLANS FOR THE SPECIFIC STUD PATTERN REQUIRED AT EACH MEMBER. WHERE STUD PATTERN IS NOT CALLED FOR ON THE PLANS, PLACE STUDS PER PATTERN S1 ON BEAMS AND GIRDERS. REF. DETAIL 6.
10. SHEAR STUD PLACEMENT AND SPACING REQUIREMENTS ARE SHOWN IN DETAIL 5.

TYPICAL DECK TO WF ATTACHMENT NO SCALE 5

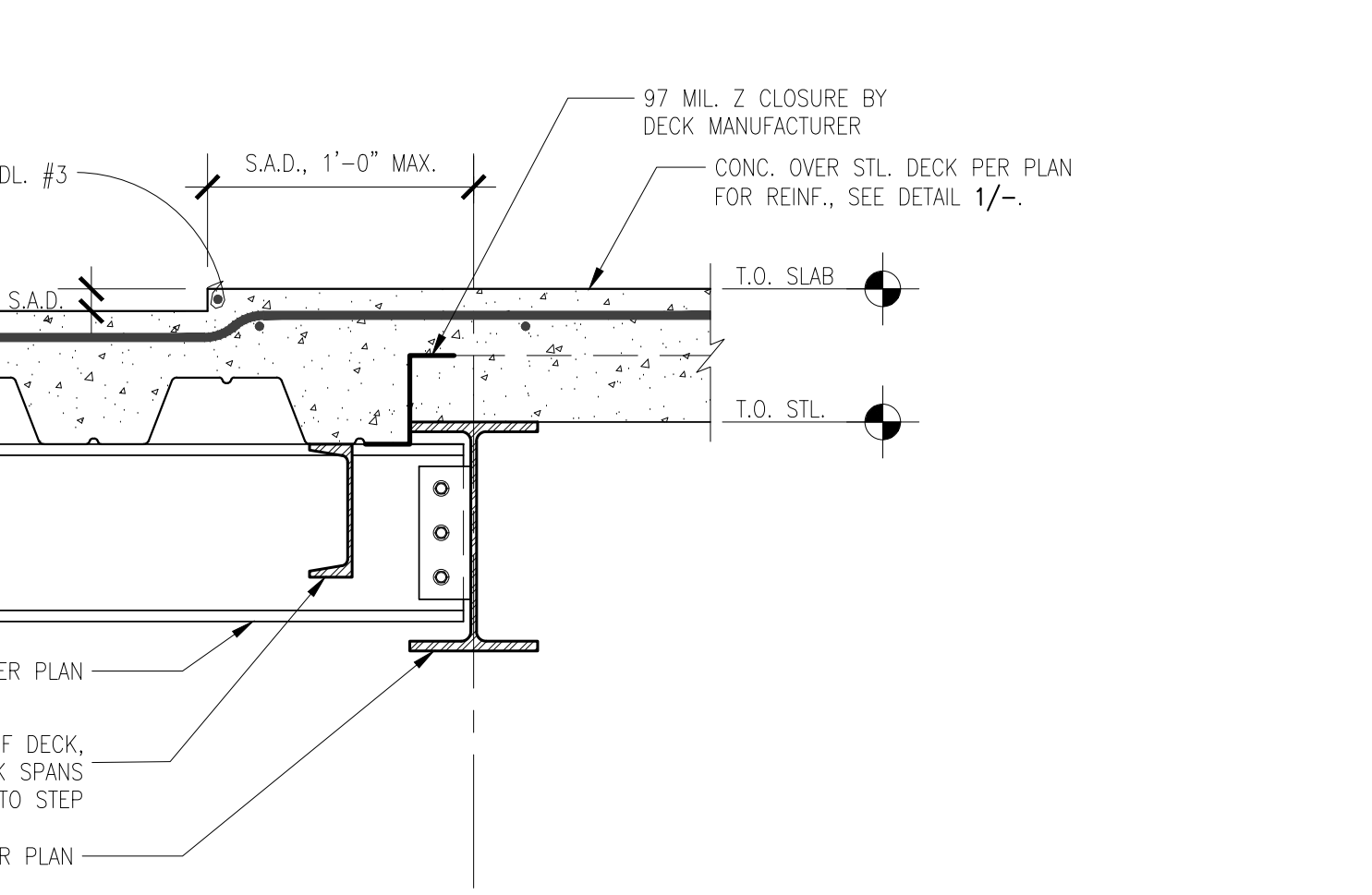
TYPICAL STEEL DECK & STUD NOTES NO SCALE 1

TYP. SHEAR STUD PLACEMENT 1"=1'-0" 9

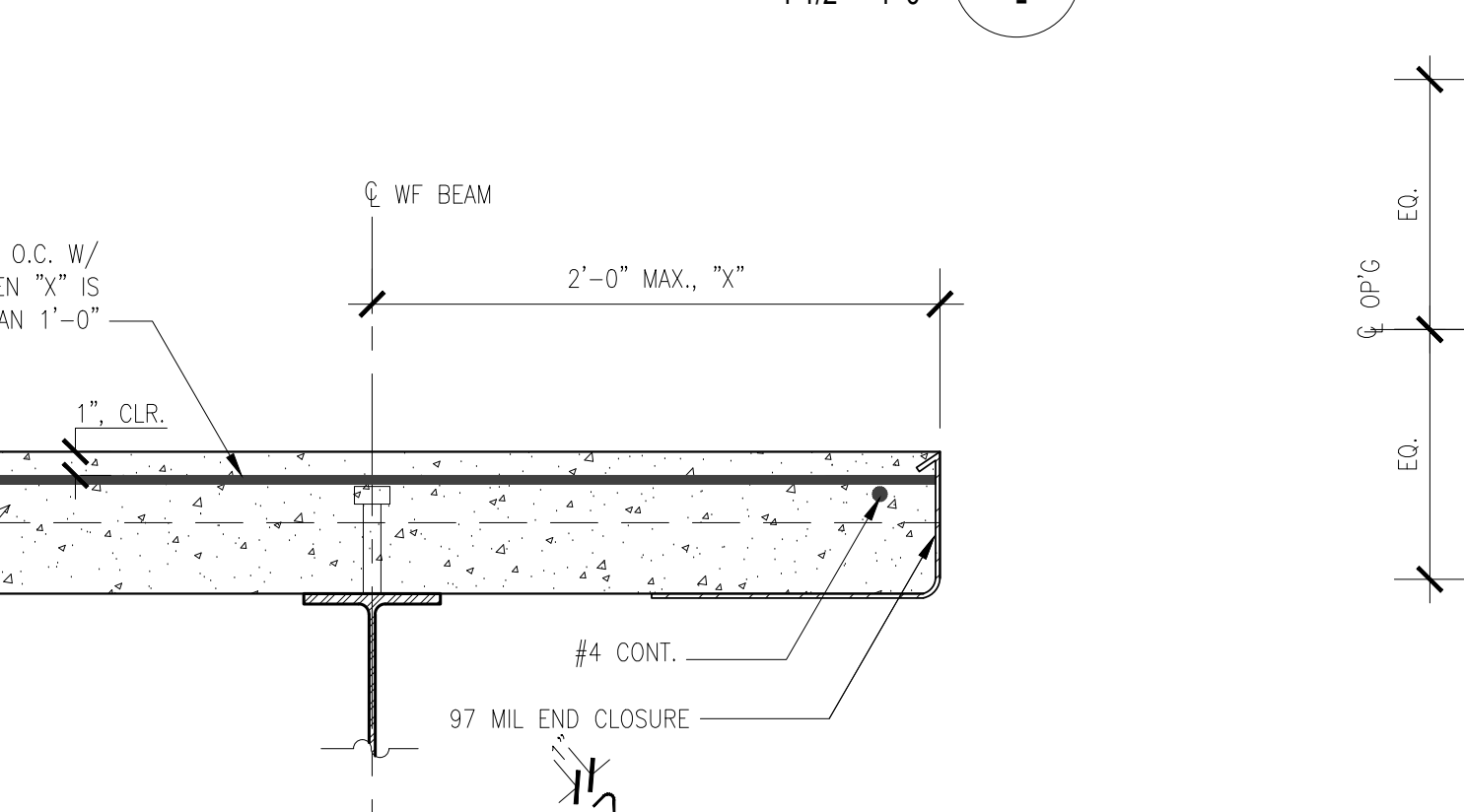
TYP. EDGE OF DECK (PARALLEL TO WF) 1 1/2" = 1'-0" 13



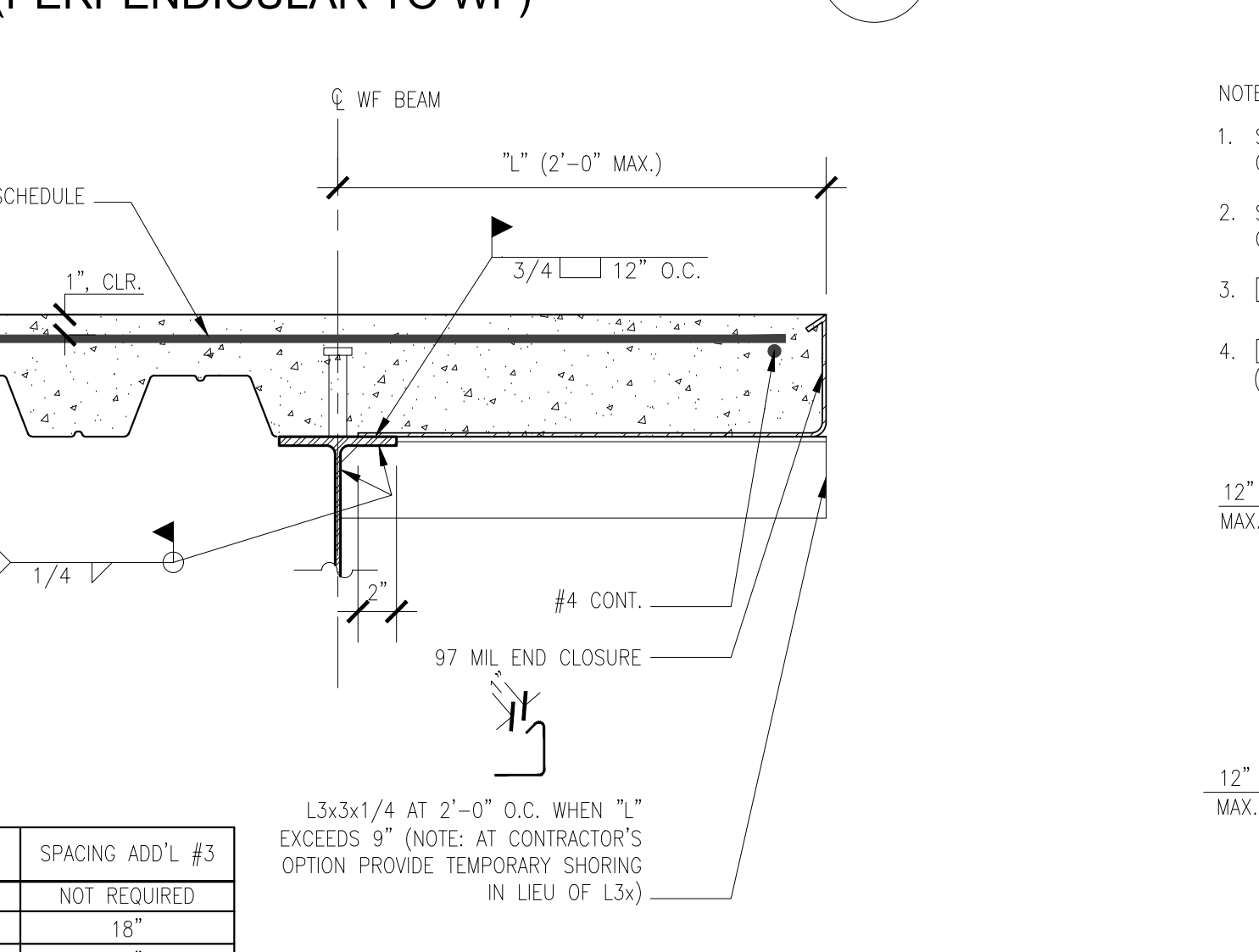
TYP. DECK SLOPE CHANGE AT WF BEAM 1 1/2" = 1'-0" 12



TYP. DEPRESSIONED SLAB 1 1/2" = 1'-0" 15



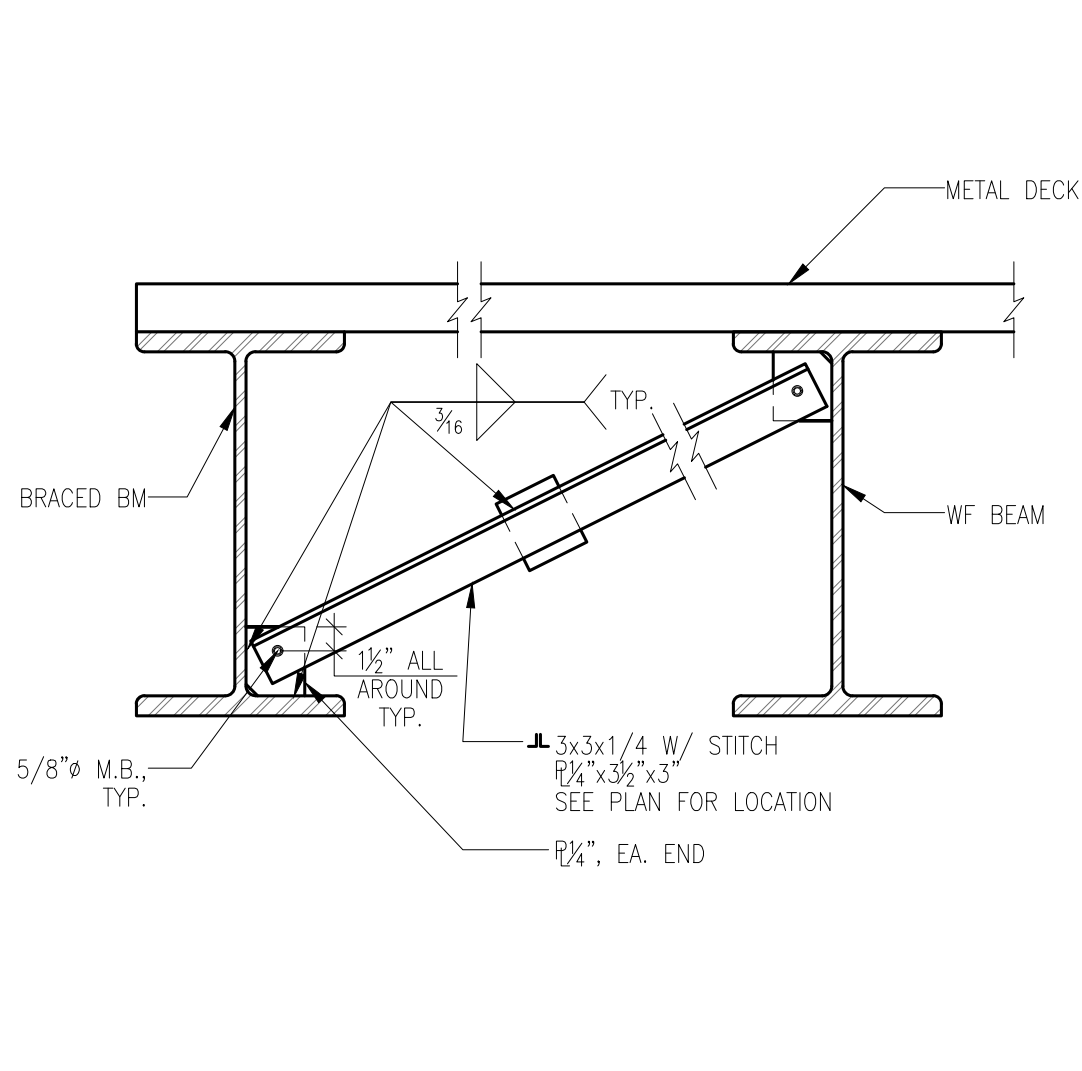
TYP. OPENINGS IN STEEL DECK LESS THAN 2'-0" NO SCALE 10



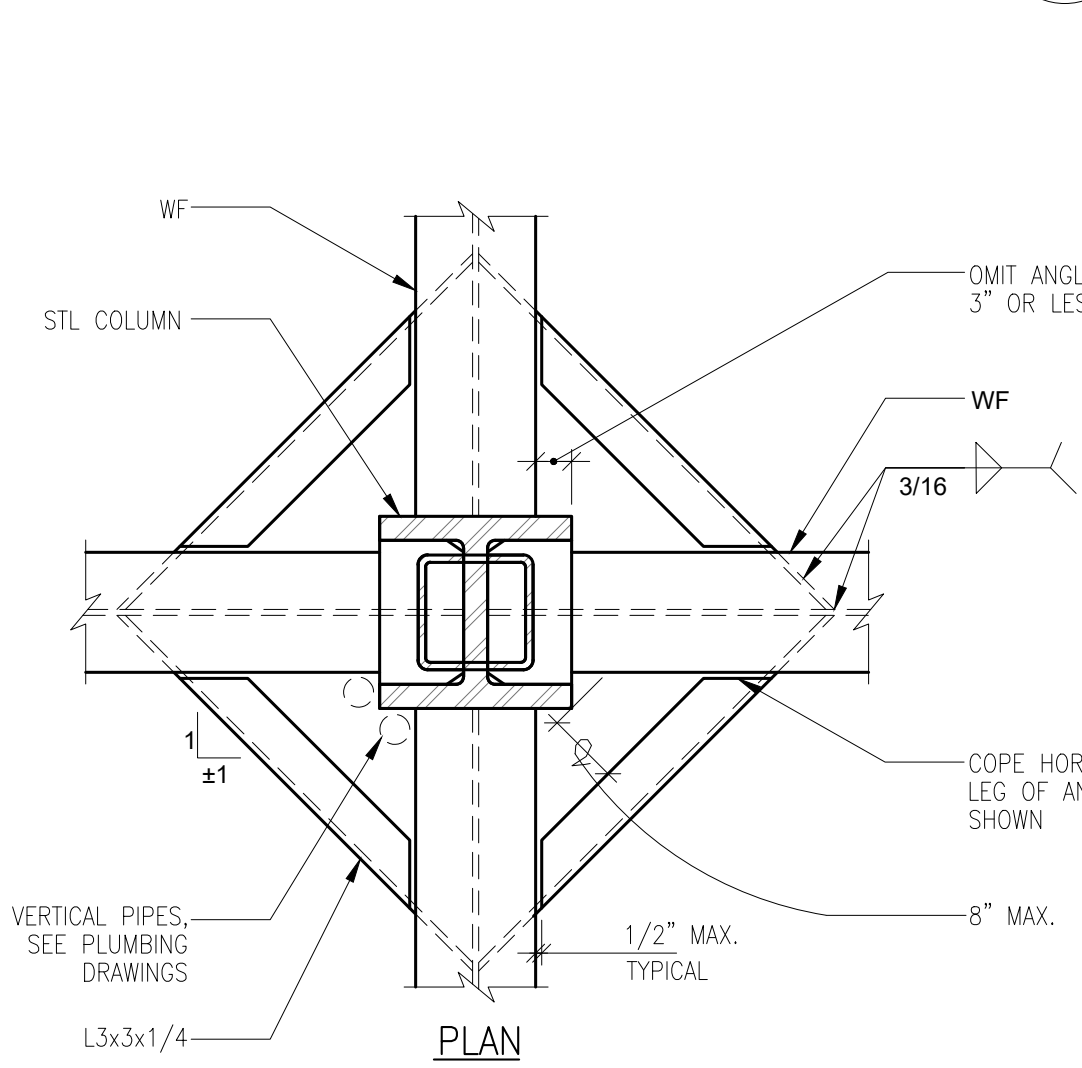
TYP. SHEAR STUD PLACEMENT 1"=1'-0" 9

TYP. EDGE OF DECK (PARALLEL TO WF) 1 1/2" = 1'-0" 13

TYP. WEDGE TYPE EXPANSION ANCHOR 1"=1'-0" 17

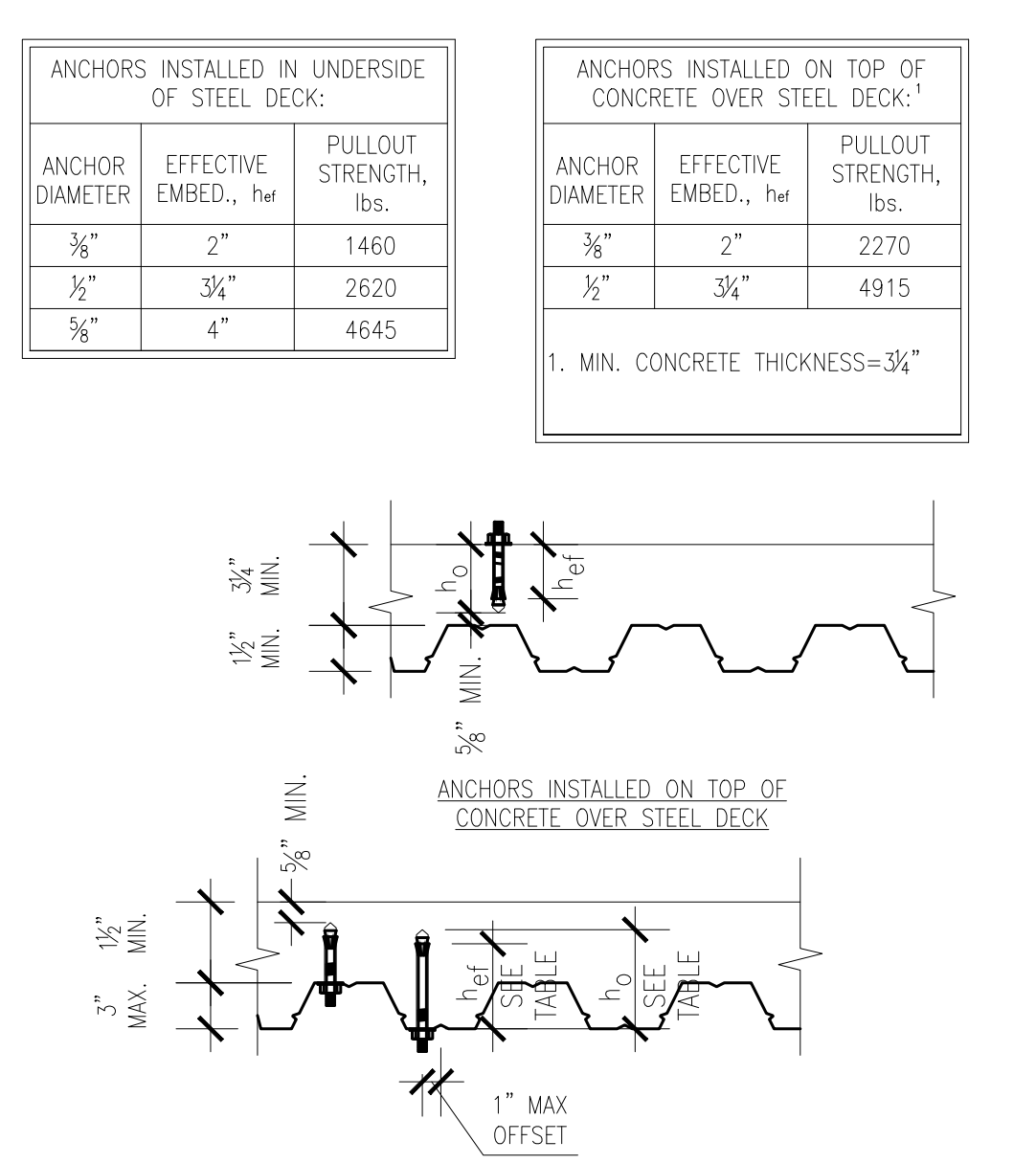


TYP. BEAM BOTTL. FLANGE BRACING AT DECK (SEISMIC) NO SCALE 20



TYP. DEPRESSIONED SLAB 1 1/2" = 1'-0" 15

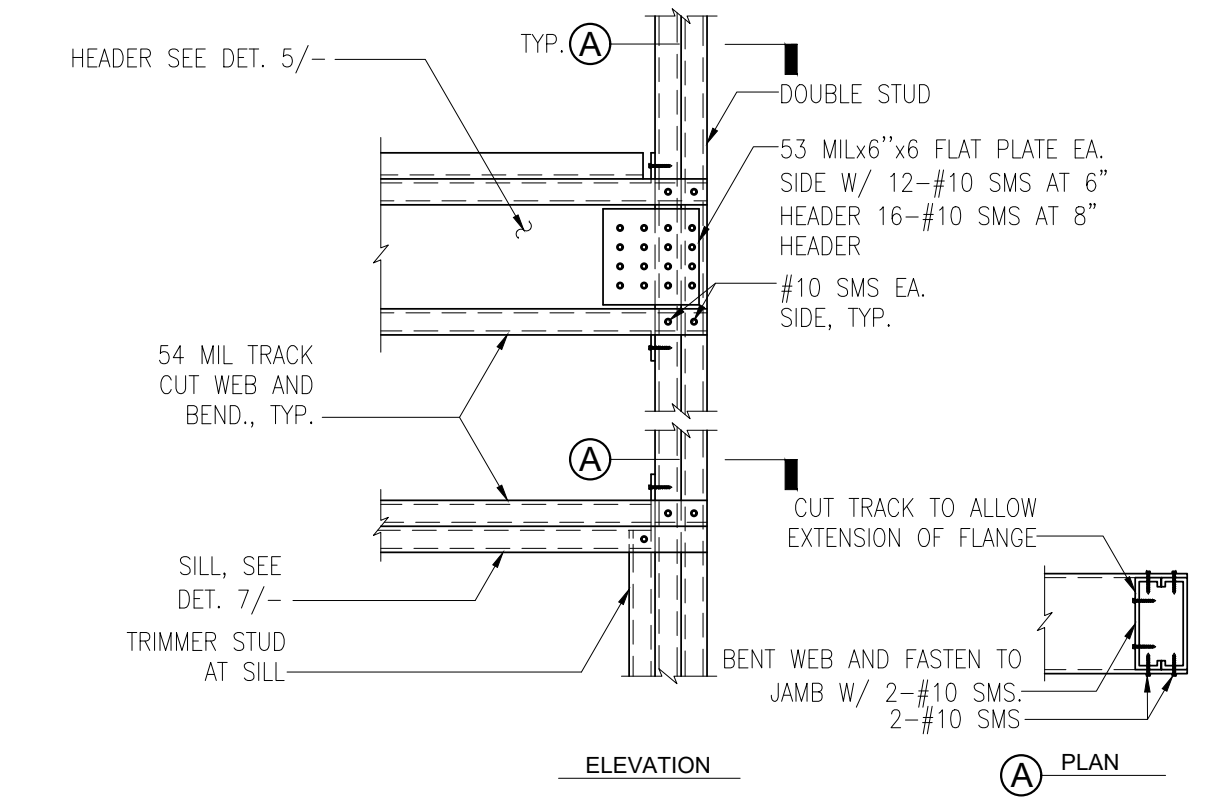
TYP. EDGE OF DECK (PERPENDICULAR TO WF) 1 1/2" = 1'-0" 14



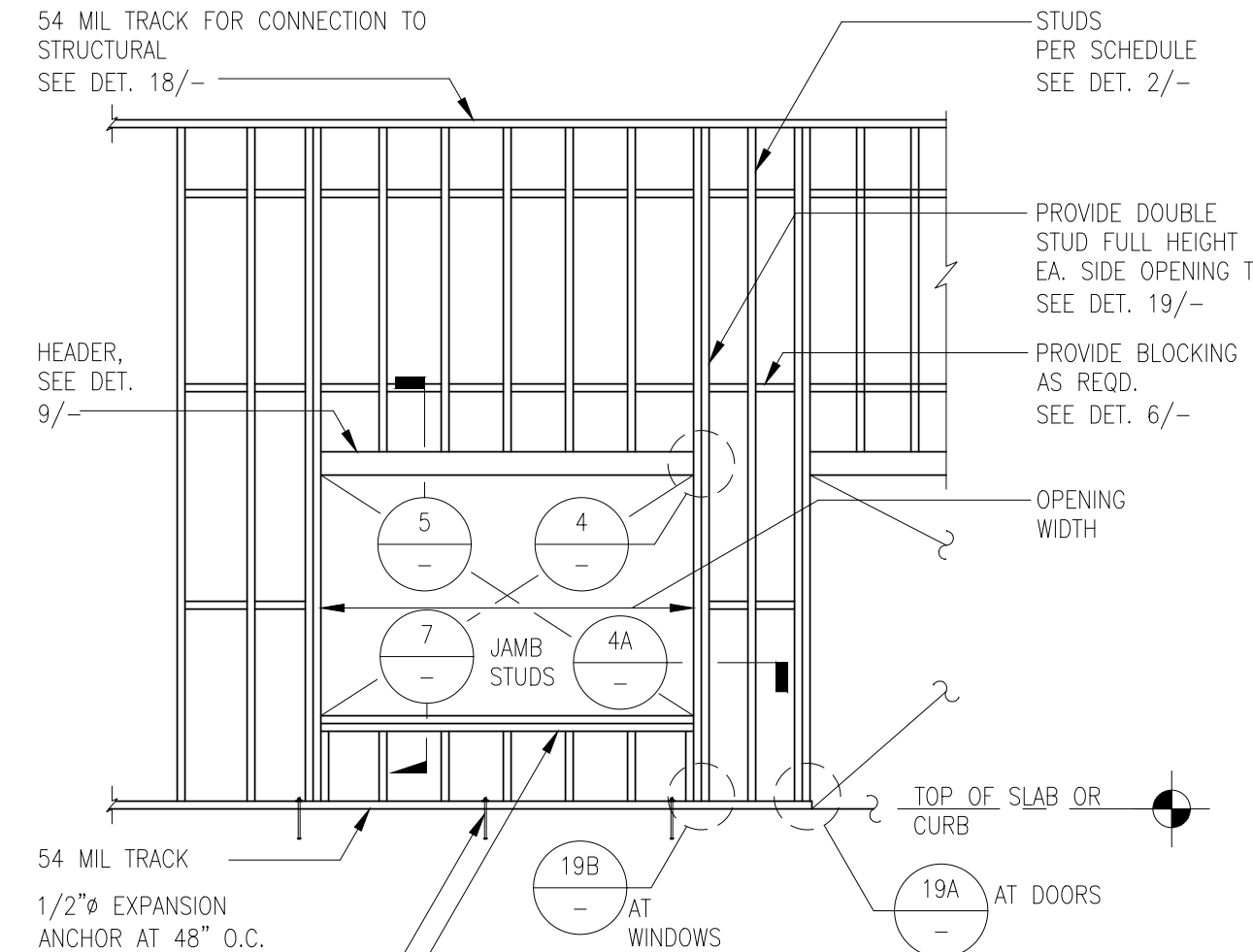
- NOTES:
1. ACCEPTABLE WEDGE TYPE ANCHOR (NO SUBSTITUTIONS):
* HILTI KWIK BOLT T2 (KB-T2) CARBON STEEL ANCHOR
2. INSTALL ANCHORS IN ACCORDANCE WITH REQUIREMENTS OF ICC-ES ESR-1917.
3. DO NOT CUT REINFORCING STEEL DURING DRILLING OF HOLES.
4. OVERDRILL HOLES AS REQUIRED TO ACHIEVE SCHEDULED EMBEDMENT AFTER FINAL TORQUING. NOTIFY ENGINEER WHERE SCHEDULED EMBEDMENT CANNOT BE ACHIEVED.
5. TAKE MEASURES TO PREVENT SPALLING OF CONCRETE AT ENDS OF DRILLED HOLES.
6. SCHEDULED EMBEDMENT IS MEASURED FROM SURFACE OF STRUCTURAL CONCRETE, WHERE FINISHES OR GROUT PADS OCCUR.
7. FIELD TEST ANCHORS BY THE TORQUE WRENCH METHOD TO THE FOLLOWING LOADS IN ACCORDANCE WITH SPECIFICATIONS:
- | ANCHOR DIAMETER | 3/8" | 1/2" | 5/8" | 1" |
|-----------------|------|------|------|-----|
| TORQUE (FT LBS) | 25 | 40 | 60 | 110 |
- THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF TURN OF THE NUT.

TYP. WEDGE TYPE EXPANSION ANCHOR 1"=1'-0" 17

TYP. EDGE OF DECK (PARALLEL TO WF) 1 1/2" = 1'-0" 13



TYPICAL HEAD AND SILL DETAILS AT JAMB NON BEARING WALL N.T.S. 4



TYPICAL COLD-FORMED STL. FRAMING - NON BEARING N.T.S. 3

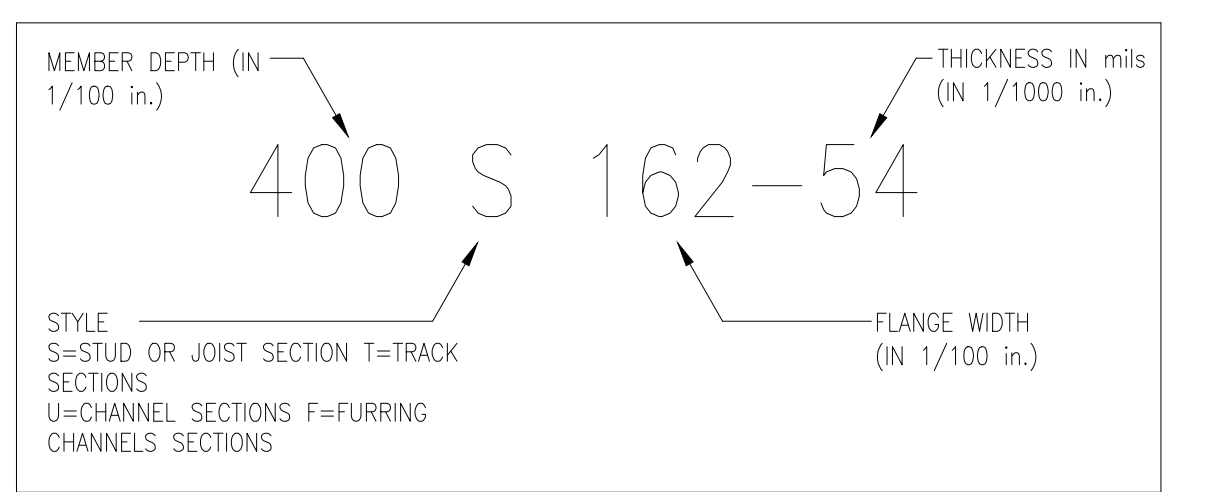
JOISTS		HEADERS	
JOIST A	1000S162-54	HDR A	1000S-54 BOX ¹
JOIST B	800S162-54	HDR B	800S-54 BOX ¹
JOIST C	1200S162-54	HDR C	1200S-68 BOX

1. SEE DET. 6&8/-

EXTERIOR WALL STUD: NON-BEARING		
WALL HEIGHT	STUD SECTION	SPACING
≤ 16'	600S162-43	16" O.C.
16'-20'	800S162-43	16" O.C.
20'-24'	800S200-54	16" O.C.

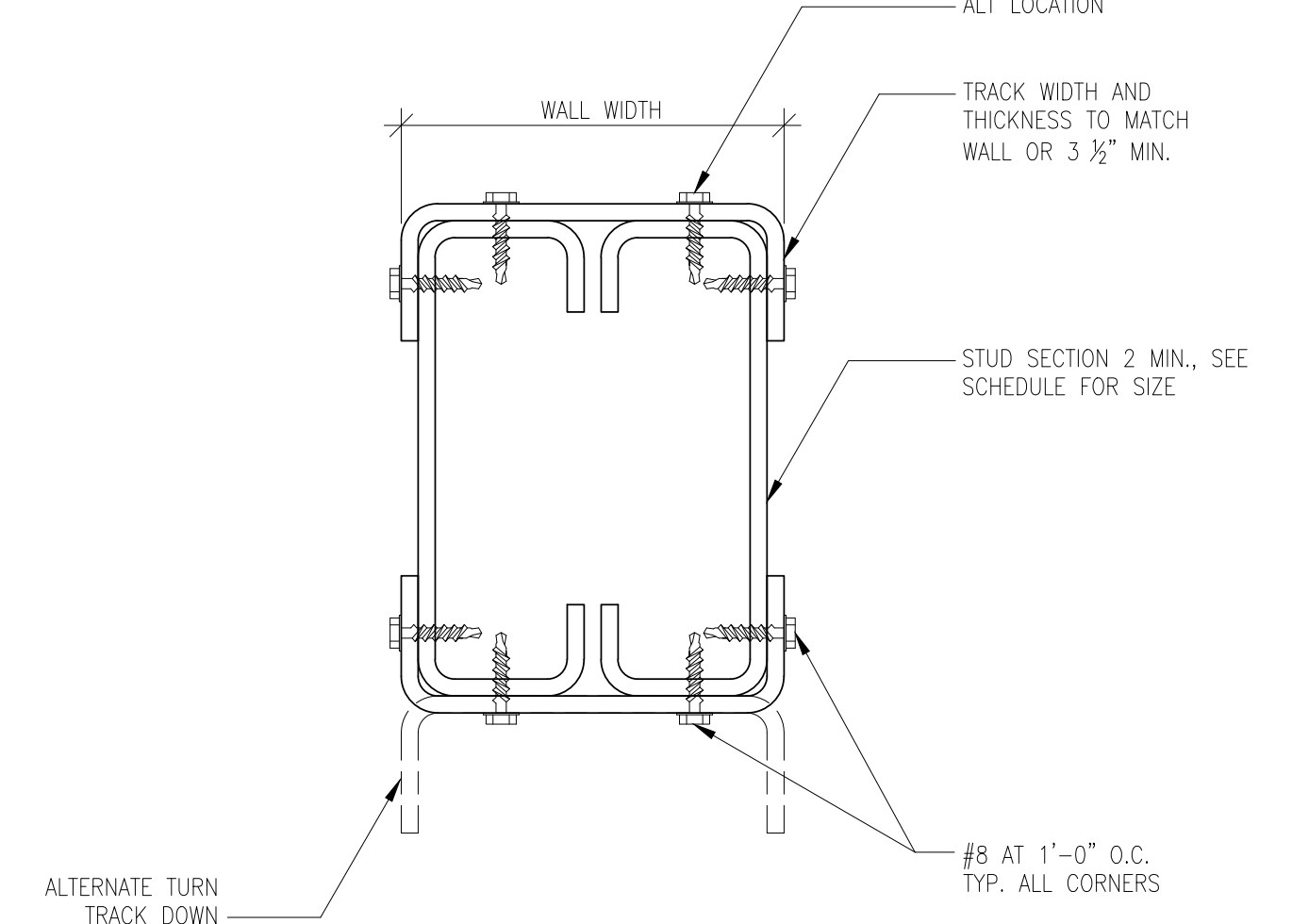
INTERIOR WALL STUD: NON-BEARING PARTITION		
WALL HEIGHT	STUD SECTION	SPACING
≤ 14'	350S162-33	16" O.C.
≤ 18'	400S162-43	16" O.C.
≤ 24'	600S162-43	16" O.C.

COLD-FORMED STEEL FRAMING SCHEDULES N.T.S. 2

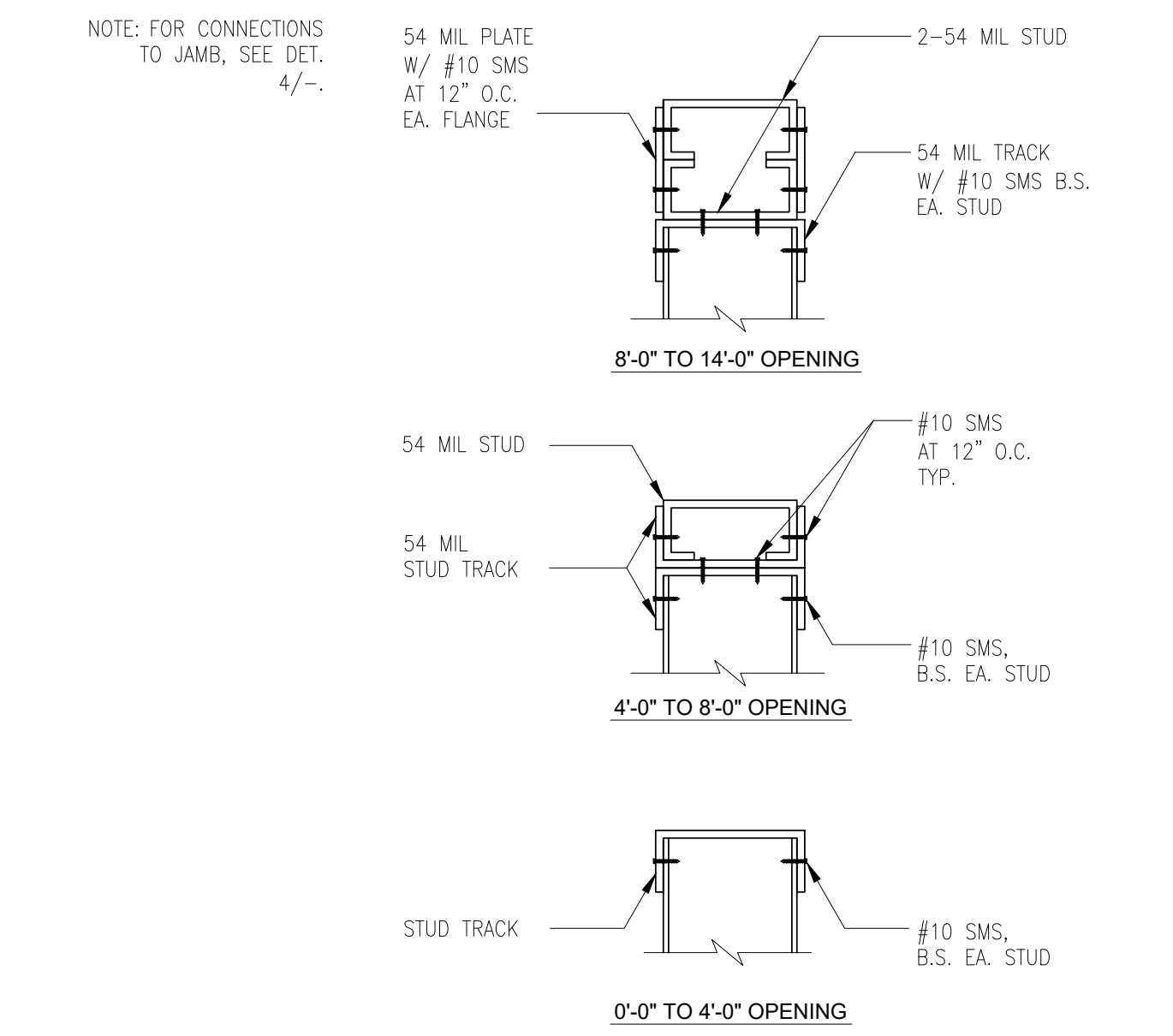


MINIMUM DELIVERABLE THICKNESS (MILS)	GAUGE	DESIGN THICKNESS (INCHES)
18	25	.0188
27	22	.0283
33	20	.0346
43	18	.0451
54	16	.0566
68	14	.0713
97	12	.1017

TYPICAL COLD-FORMED STL. STUD DESIGNATIONS N.T.S. 1



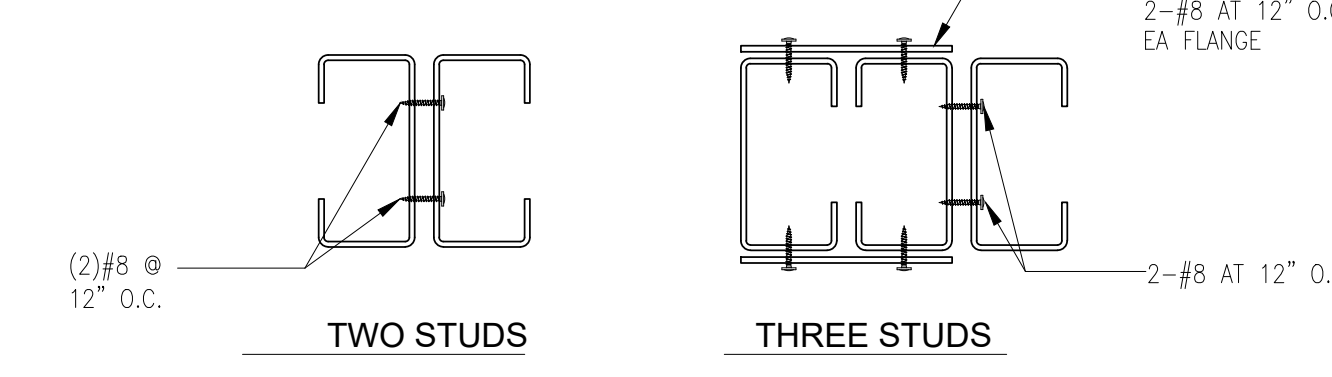
TYPICAL BUILT-UP POST, BOX BEAM OR HEADER N.T.S. 8



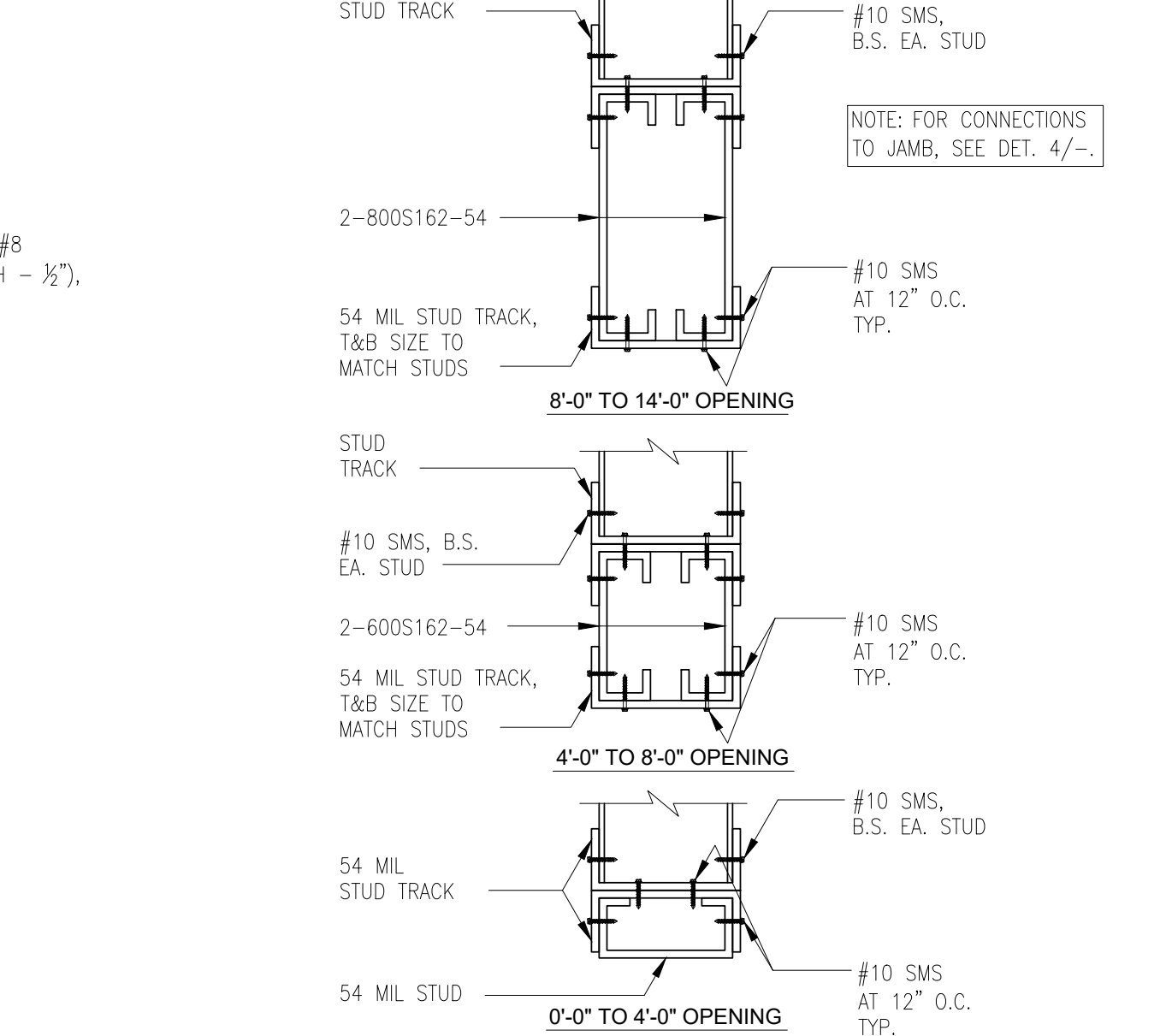
TYPICAL CFS SILL N.T.S. 7

HEADER OR BEAM SPAN	NO. OF JACK STUDS OR POST	NO. OF KING STUDS	HEADER TO KING STUD (NO. OF SCREWS REQ'D.)	HEADER SIZE
4'-0"	1	2	6-#8 SCREWS	400S162-43 BOX
6'-0"	1	2	6-#8 SCREWS	600S162-54 BOX
8'-0"	2	2	8-#8 SCREWS	800S162-54 BOX
12'-0"	3	3	10-#8 SCREWS	1000S162-68 BOX
16'-0"	3	4	12-#8 SCREWS	1200S162-97 BOX
18'-0"	3	4	12-#8 SCREWS	1200S162-97 BOX

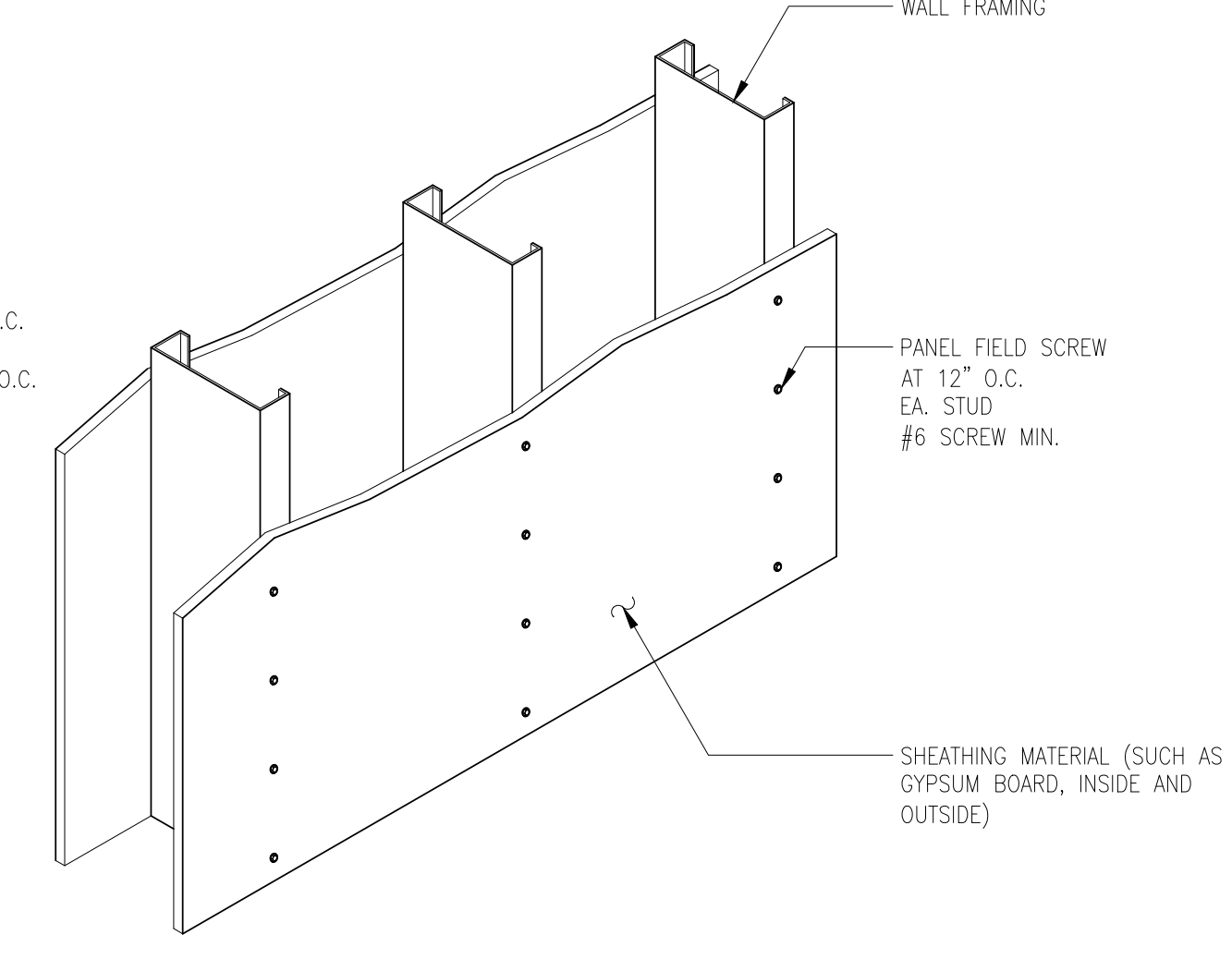
- NOTES:
- SCREWS CAN BE REPLACED BY AN UP-LIFT CONNECTOR, WHICH HAS A CAPACITY OF THE NUMBER OF SCREWS MULTIPLIED BY 164 LBS.
 - ALL JACK STUDS TO BE SAME SIZE AND GRADE AS TYPICAL WALL STUD AT THAT LEVEL.
 - FASTEN STUDS TOGETHER.
 - FOR BOX BEAM SEE DET. 8/-



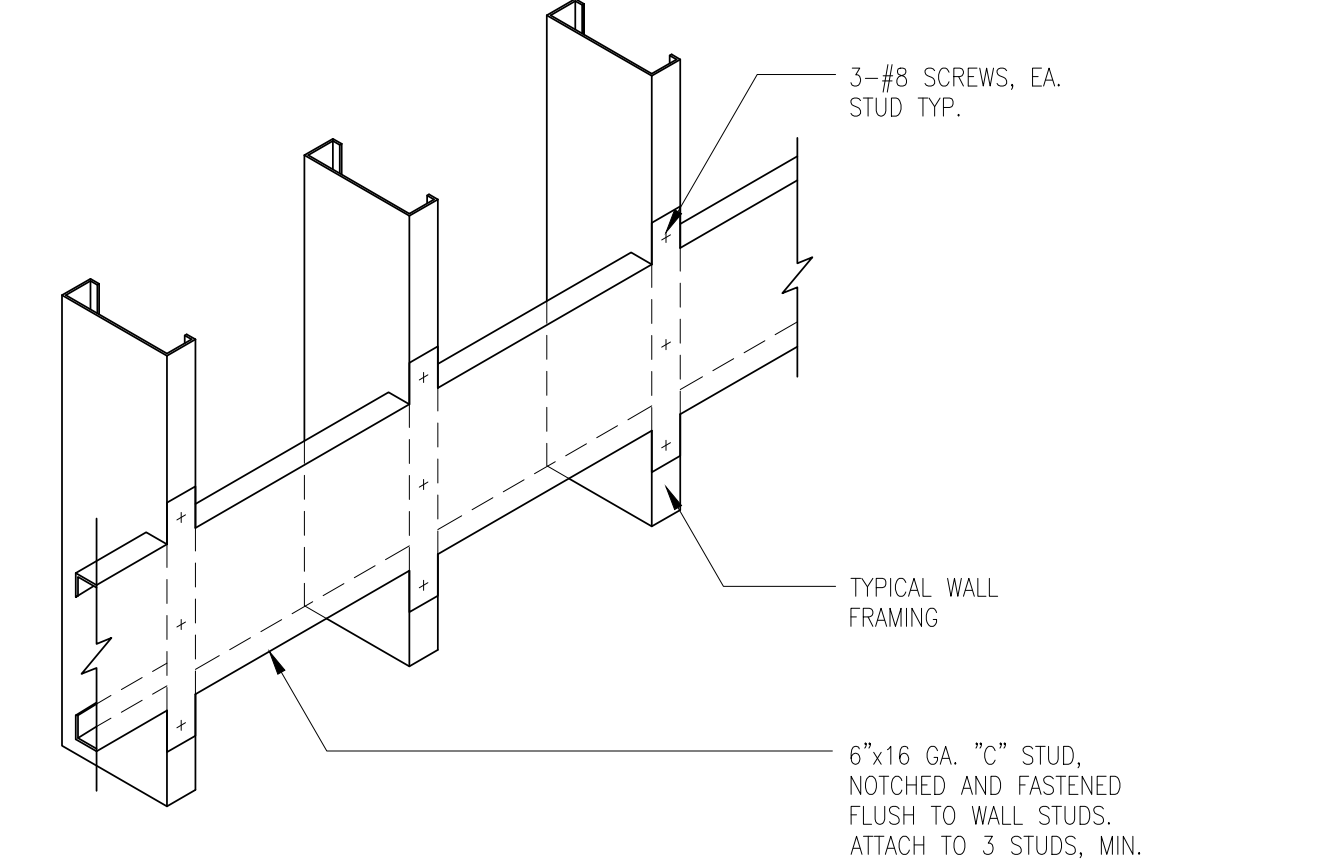
POST AND HEADER SCHEDULE BEARING N.T.S. 6



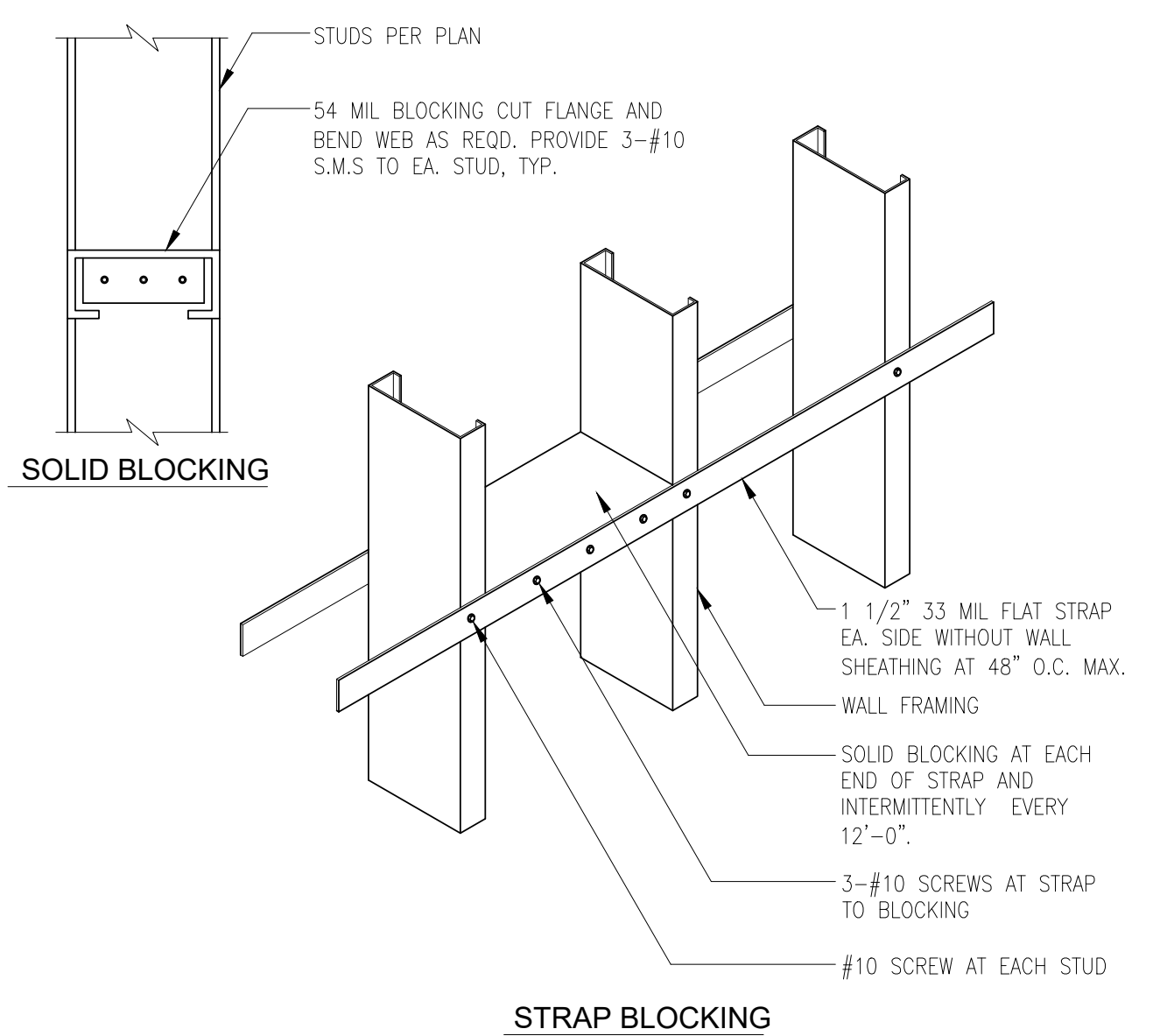
TYPICAL HEADER NON-BEARING N.T.S. 5



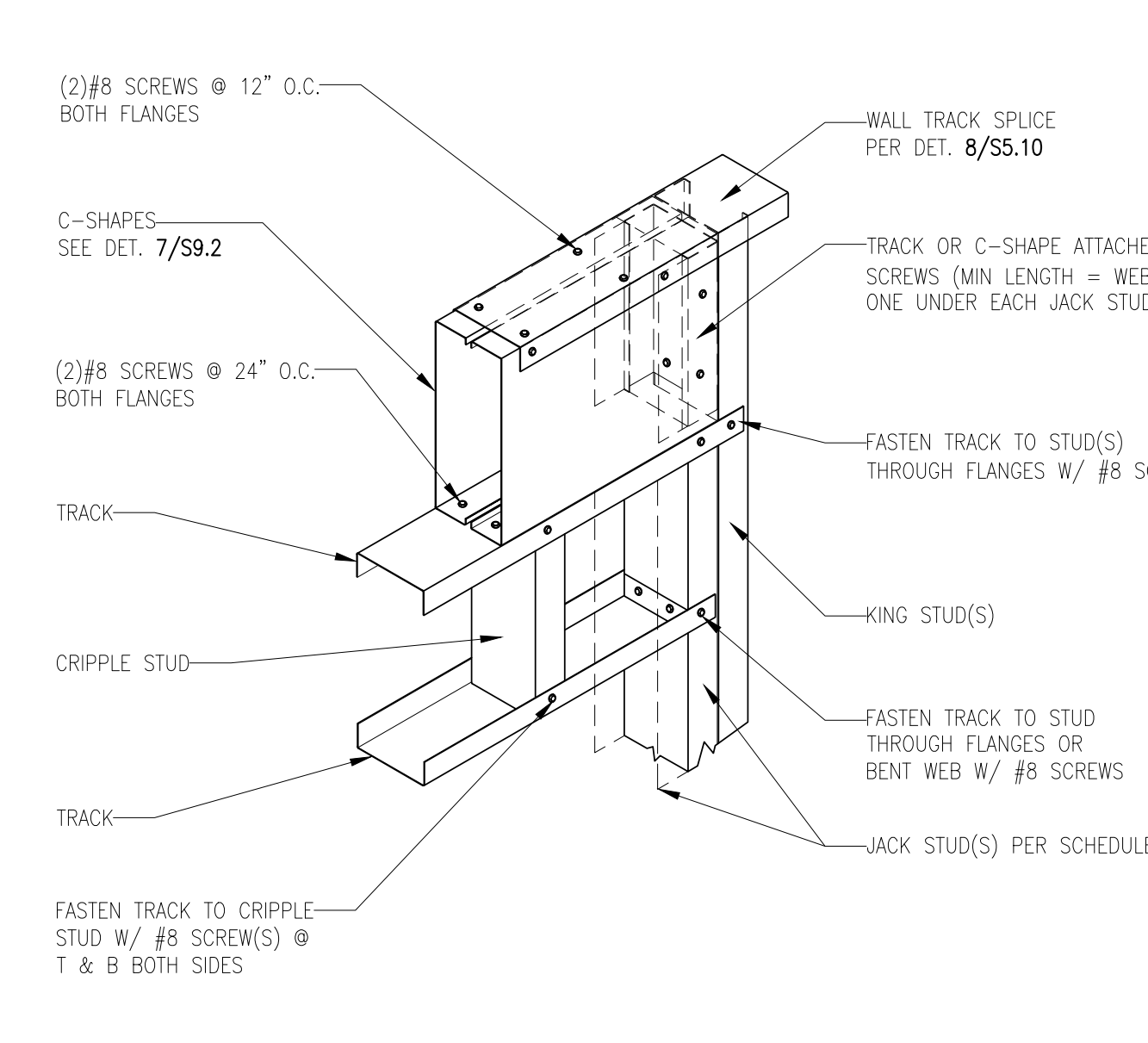
TYPICAL STUD BRACING WITH SHEATHING N.T.S. 12



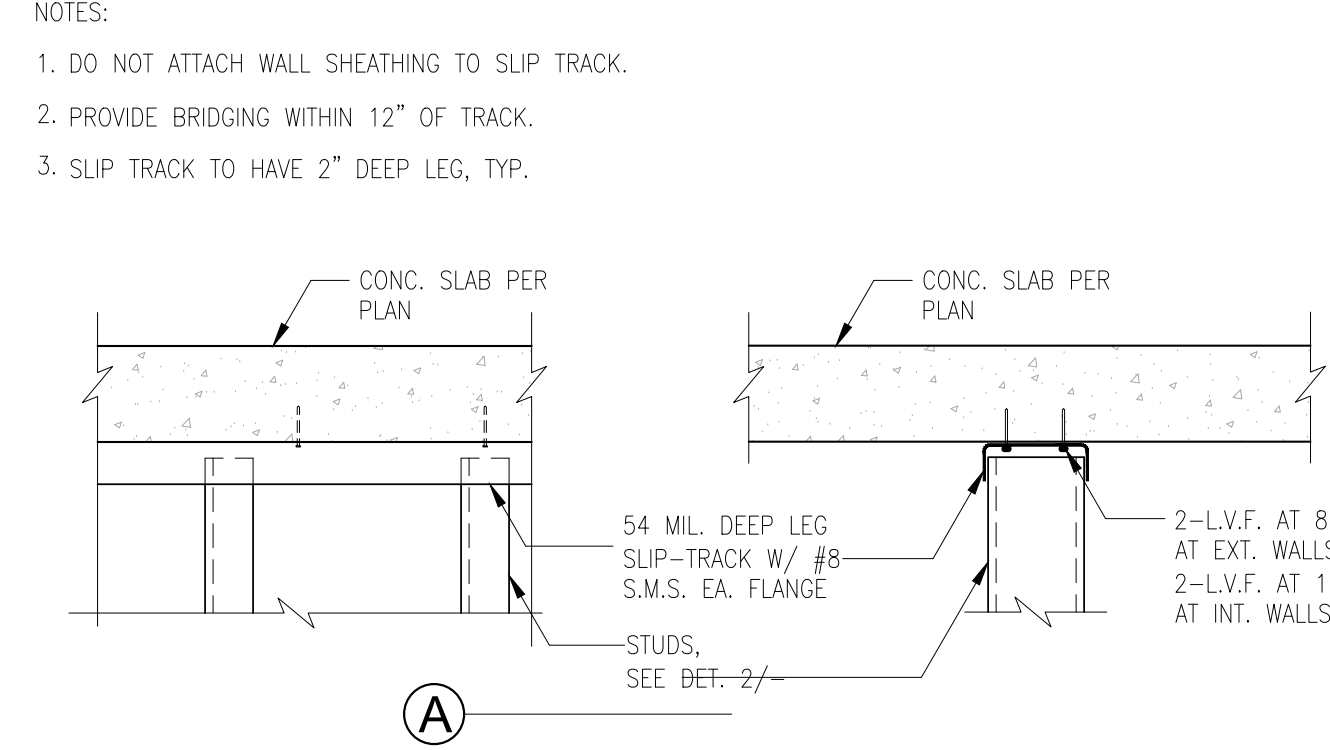
TYPICAL BACKING DETAIL N.T.S. 11



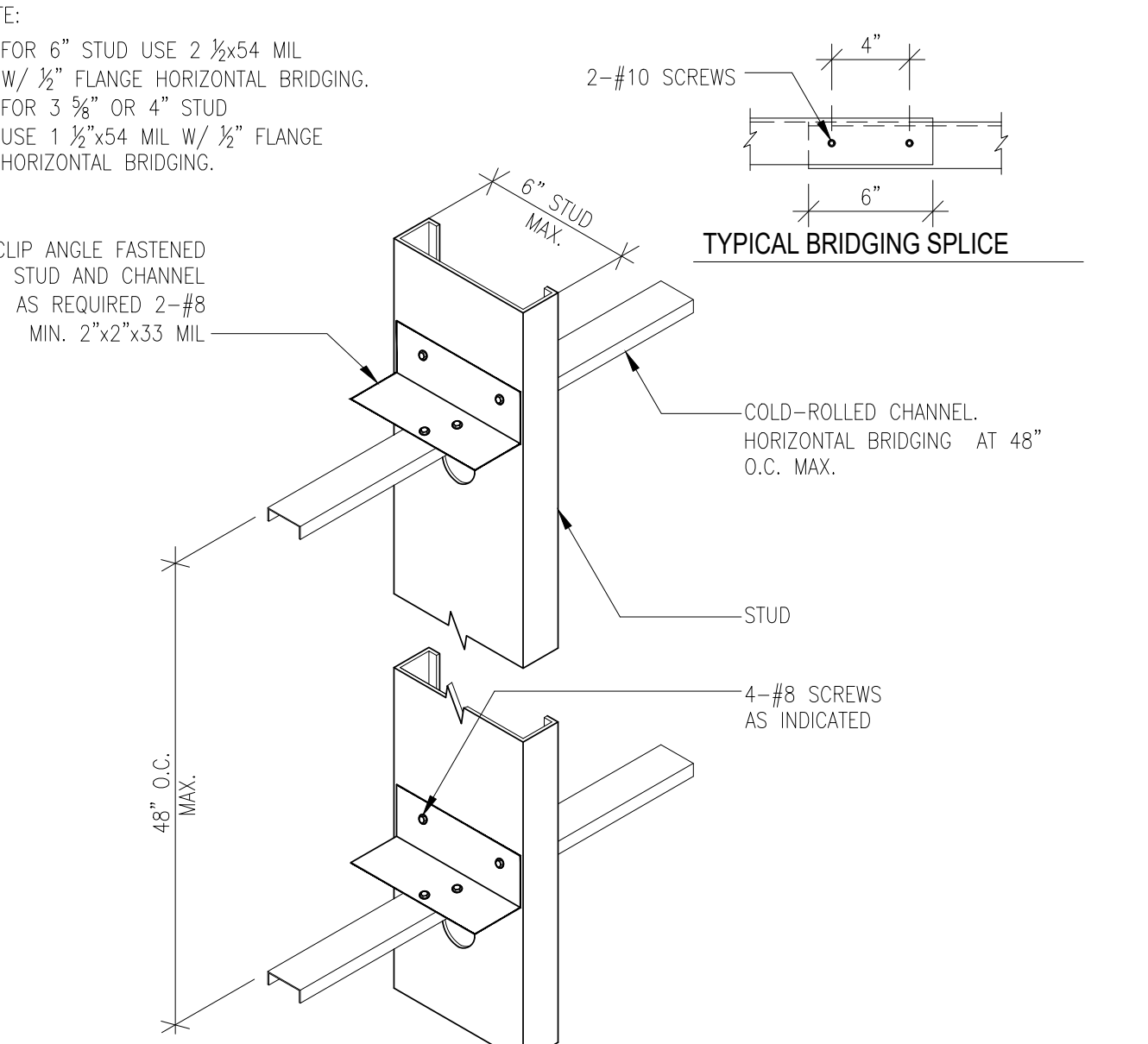
TYPICAL STUD BLOCKING N.T.S. 10



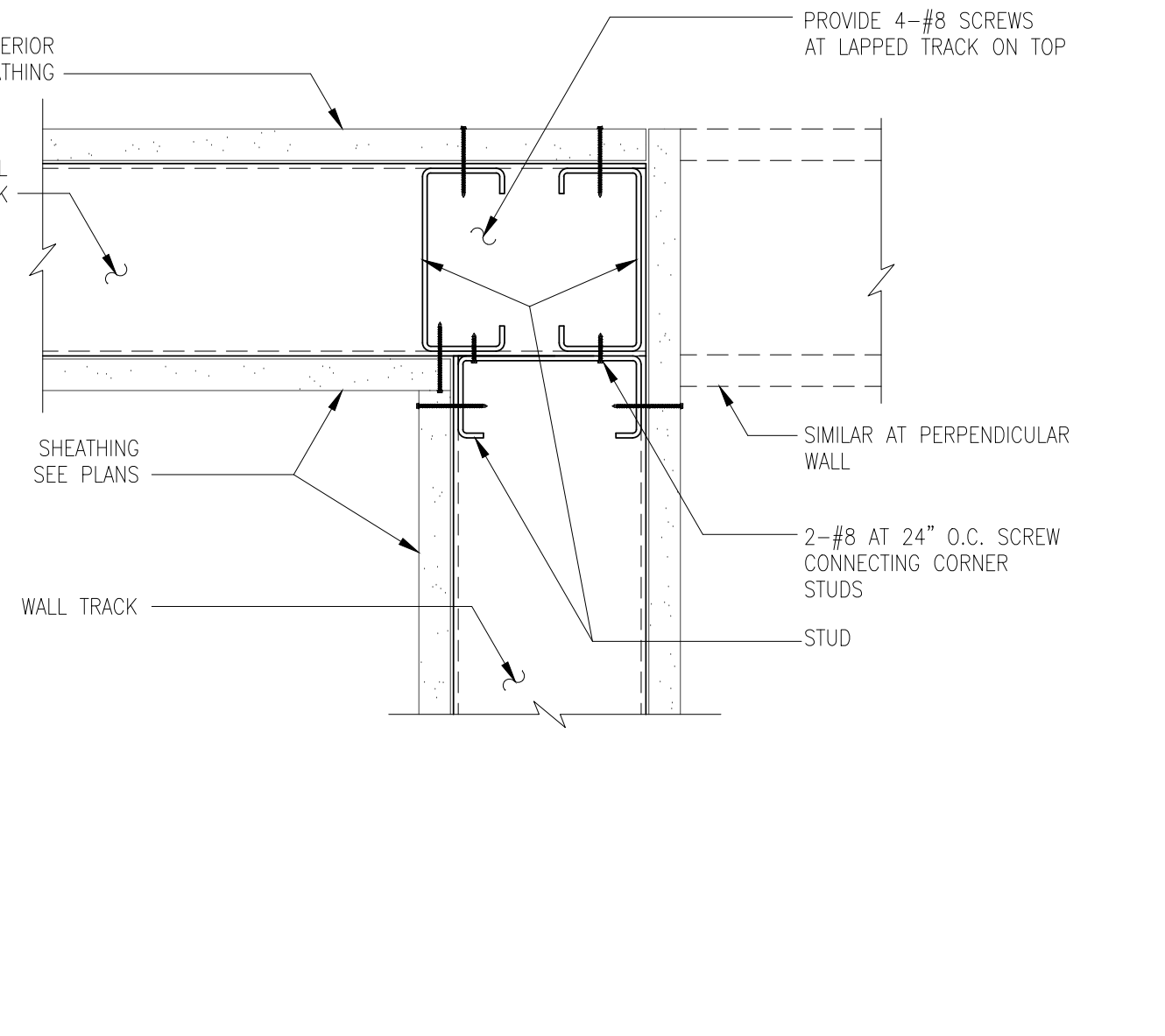
TYPICAL BOX HEADER W/ JACK-STUD BEARING N.T.S. 9



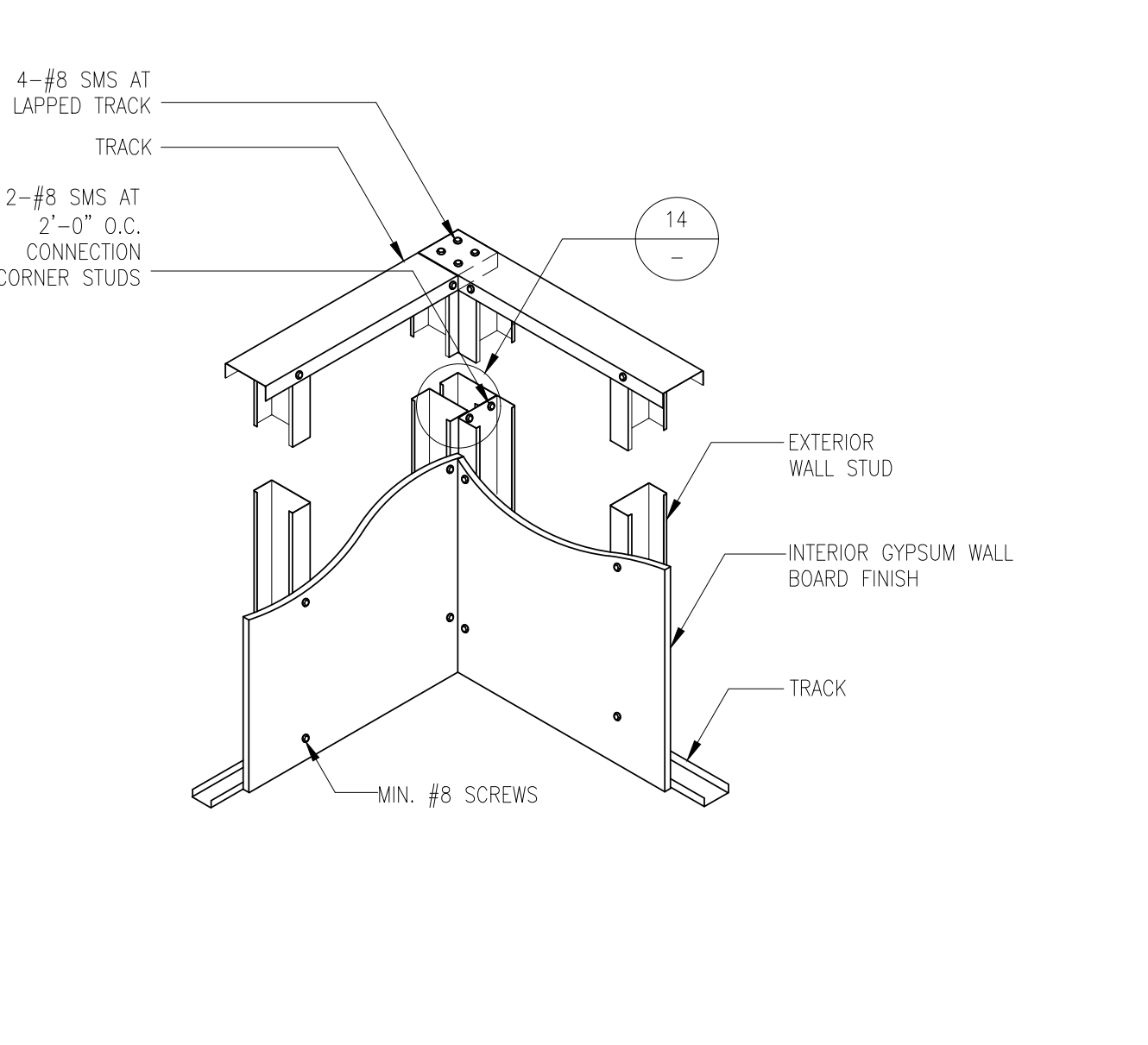
TYPICAL NON BEARING WALL TOP CONNECTION N.T.S. 16



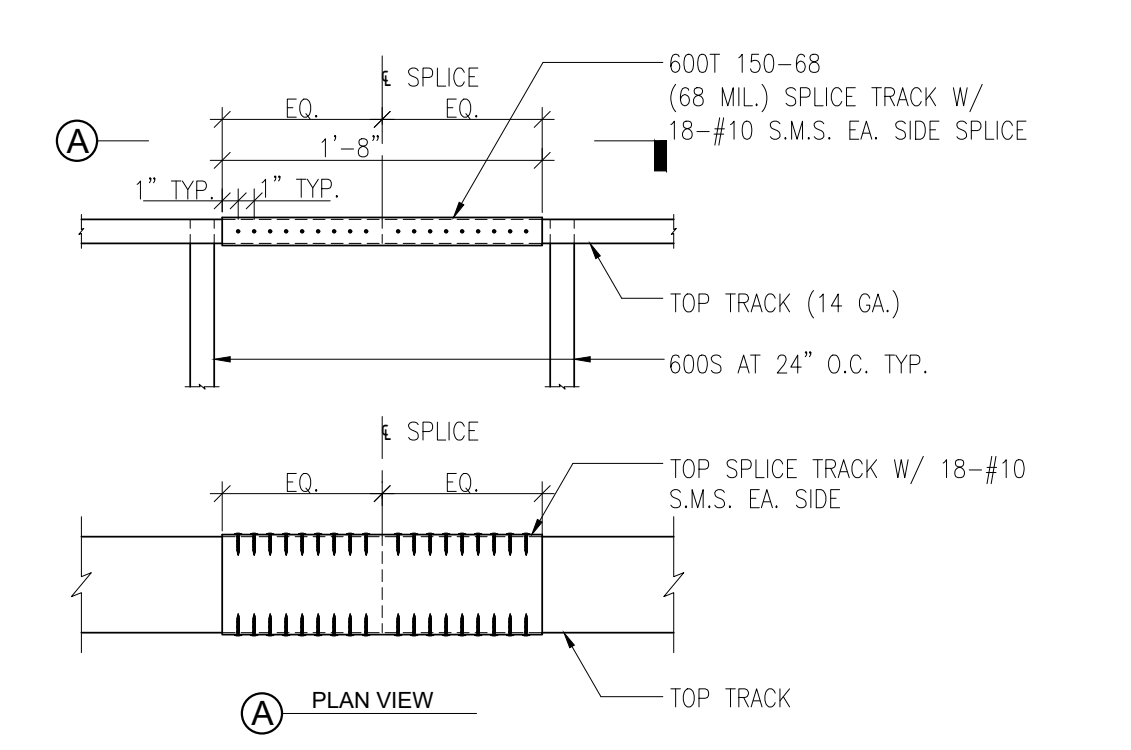
TYPICAL BRIDGING N.T.S. 15



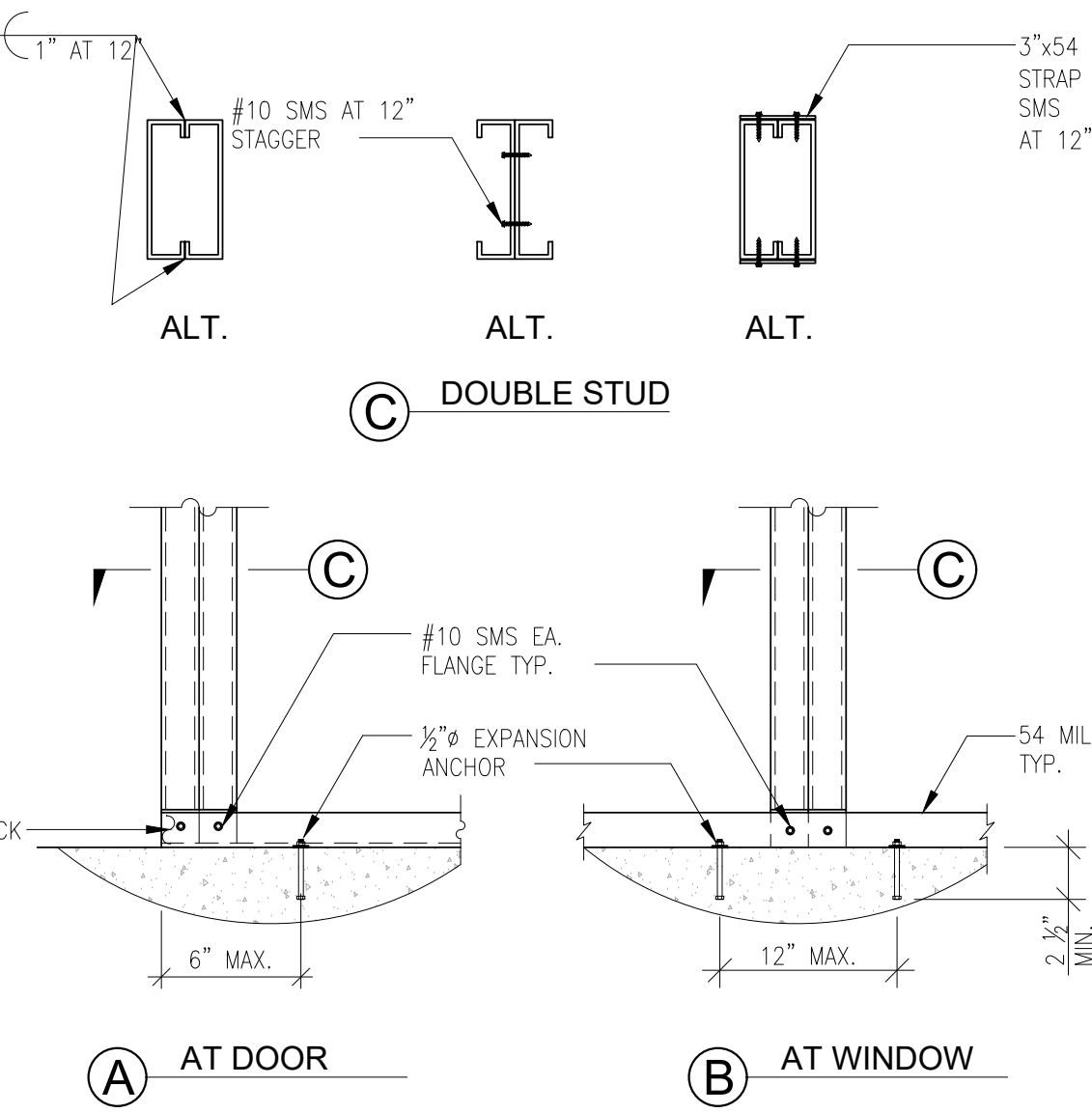
TYPICAL CORNER FRAMING N.T.S. 14



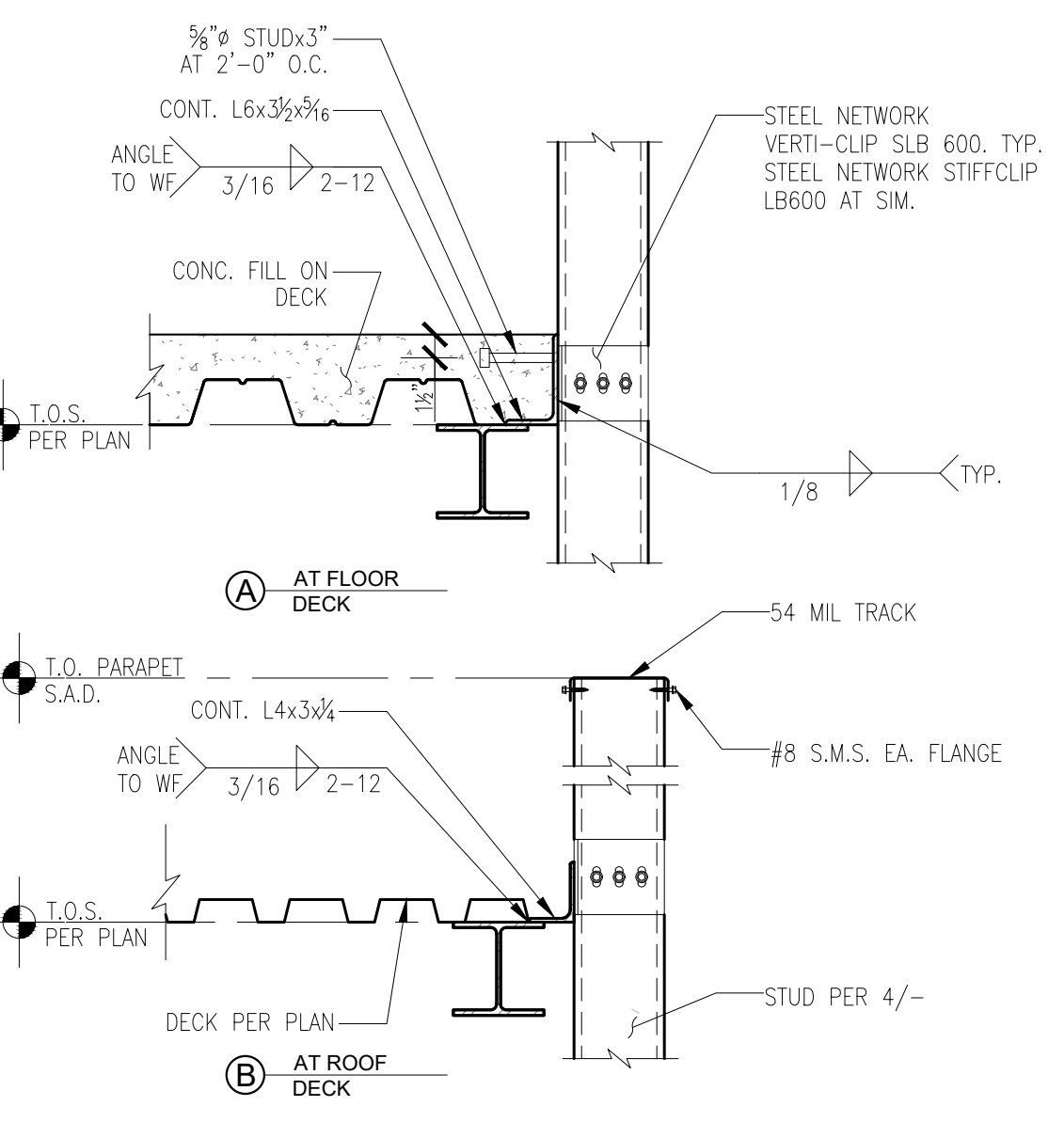
TYPICAL CORNER FRAMING N.T.S. 13



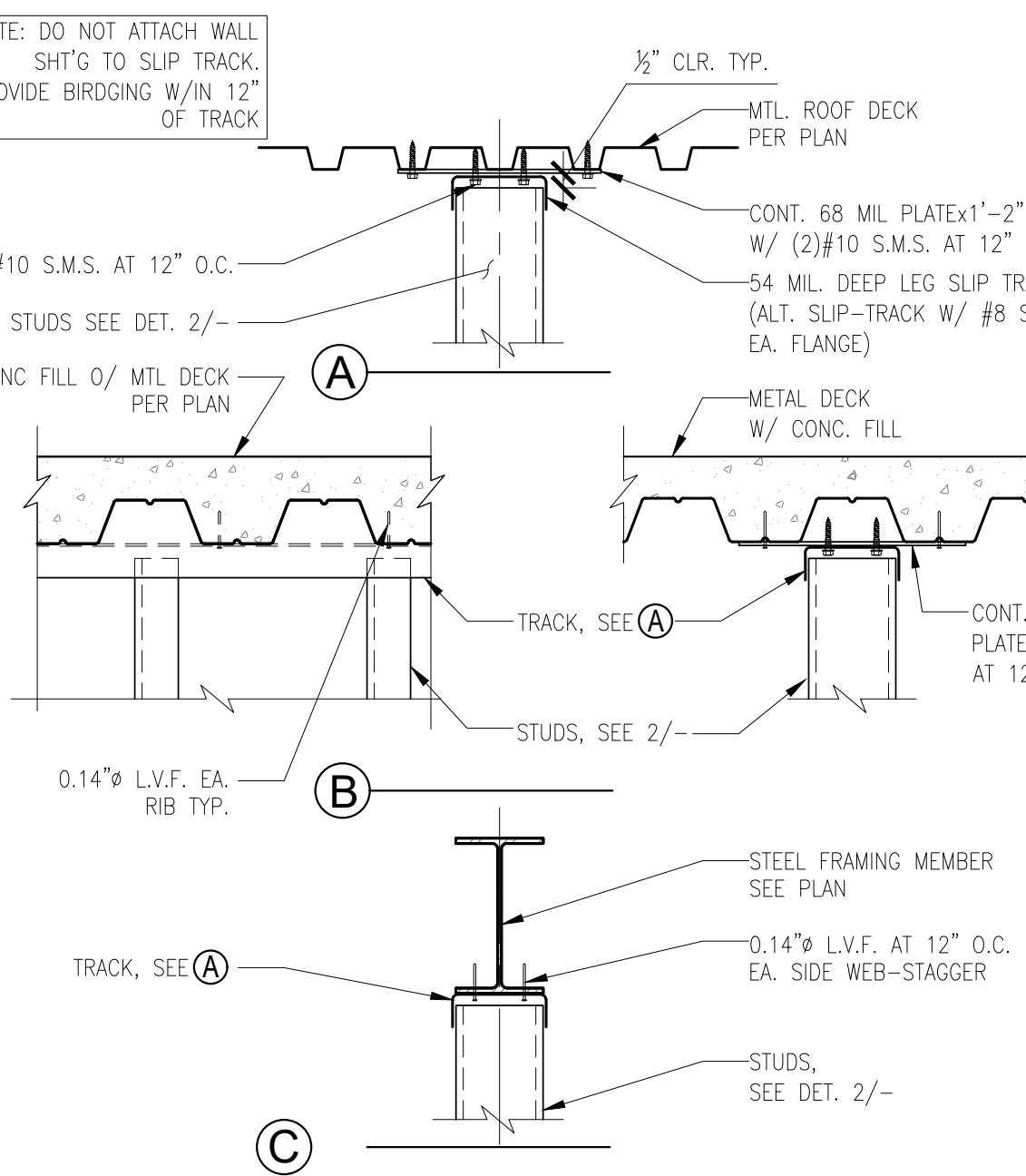
TYPICAL TOP TRACK SPLICE DETAIL N.T.S. 20



TYPICAL DOUBLE STUD JAMB BASE SIMILAR AT TOP N.T.S. 19



TYPICAL FLOOR BYPASS CONNECTION SPLICE DETAIL N.T.S. 18



TYP. TOP-OF-WALL CONN. NON-BEARING N.T.S. 17

DATE: 6/01/20
C:\20015 Cupertino Library Expansion\Struct\CAD\20015 DETAILS_S042.dwg

APPENDIX 2

AUTHORITY OF BRIDGING DOCUMENTS

ARTICLE 1: GENERAL

1.1 Bridging Documents

1. Bridging Documents include the City's program for the Project, and may include:
 - a. Size, type, shape, height, configuration, and desired design character of building, improvements, and appurtenances.
 - b. Performance, and in some cases prescriptive specifications, covering the quality of materials, equipment, building components and workmanship, public spaces, landscape design, and general architectural character of the buildings, improvements, and appurtenances.
 - c. Preliminary program adjacency diagrams.
 - d. Site requirements, parking and infrastructure items.
 - e. Working restrictions as necessary to execute Project in the vicinity of an operational library.

ARTICLE 2: INTERPRETATION OF BRIDGING DOCUMENTS

2.1 General: Prescriptive or Performance Standards

1. Bridging Documents identify items using either prescriptive or performance standards. When items are subject to prescriptive standards, the Project provided by DBE must include the specific item as described. When items are subject to performance standards, the Project provided by DBE must include items which satisfy the required performance standards.

2.2 Silence Regarding Standard

1. Where Bridging Documents are silent regarding whether a prescriptive or performance standard is intended, DBE will provide a Project which satisfies the following general standards:
 - a. For all items of aesthetics, required systems, equipment, and user items or items subject to visual observation, the Bridging Documents are intended

to specify prescriptive standards, either as specifically stated in the Bridging Documents or by reference to other Project design elements.

- b. For all items of engineering performance and code compliance (e.g., electrical runs, duct layouts and other engineering systems specified in terms of performance or code requirements), and other items of design or construction not subject to visual observation, Bridging Documents are intended to specify performance standards.

ARTICLE 3: COMPLETENESS OF BRIDGING DOCUMENTS

3.1 Intent

1. Bridging Documents are intended to describe and specify the requirements for fully functional 21st century community library facilities, generally meeting in all respects City's required design, construction and performance standards.

3.2 Effect of Incompleteness or Omissions

1. If any Bridging Documents, RFP, or Design-Build Contract documents are collectively determined, at any time, to be incomplete and/or to omit any required aspect of design, construction, equipment, systems or other component necessary to provide a fully functional library meeting the standards of the Cupertino Library Expansion Project, then the applicable Title 24 Design elements will be the minimum standard applicable to this Project and within the intent of the Bridging Documents.

APPENDIX 3

DESIGN-BUILD CONTRACT DOCUMENTS



PUBLIC WORKS DEPARTMENT
10300 TORRE AVENUE
CUPERTINO, CALIFORNIA 95014

DESIGN-BUILD CONTRACT DOCUMENTS

FOR THE

CUPERTINO LIBRARY EXPANSION PROJECT

Project Number: Project 2020-03

DESIGN-BUILD CONTRACT DOCUMENTS
FOR THE
CUPERTINO LIBRARY EXPANSION PROJECT
PROJECT NO. 2020-03

REVIEWED BY:



Michael Zimmermann
Capital Projects Program Manager

APPROVED BY:



Roger Lee
Director of Public Works

PROJECT DIRECTORY

Project Name: **Cupertino Library Expansion Project**

Project Number: **2020-03**

Location: 10800 Torre Avenue, Cupertino, CA 95014

Project Manager:

City of Cupertino

Michael Zimmermann
Public Works Department
10300 Torre Avenue
Cupertino, CA 95014
PH: 408-777-3354
FX: 408-777-3333
e-mail: MichaelZ@cupertino.org

Address for Stop Notices:

City of Cupertino

Michael Zimmermann
Public Works Department
10300 Torre Avenue
Cupertino, CA 95014
PH: 408-777-3354
FX: 408-777-3333
e-mail: MichaelZ@cupertino.org

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Design-Build Contract

This design-build contract ("Contract") is entered into on this _____ day of _____ 20____ ("Effective Date") by and between the City of Cupertino ("City"), a municipal corporation, and _____ <DBE business name> ("DBE"), a _____ <type of business entity>, for design and construction of the **Cupertino Library Expansion Project** ("Project").

RECITALS

- A. The Project involves design and construction of a 5626 square foot, two-story expansion of the existing Library, including 130-seat minimum audience capacity and presentation space, spillover seating, flexible space, kitchenette, and supplemental storage.
- B. Pursuant to § 22164 of the Public Contract Code, City issued a Request for Qualifications ("RFQ"), dated May 12, 2020, to qualify and short-list potential Design-Build Entities for the Project.
- C. Pursuant to § 22164 of the Public Contract Code, City issued a Request for Proposals ("RFP"), dated June 19, 2020, to short-listed Design-Build Entities, requesting proposals to provide the design-build services ("Services") for the Project.
- D. DBE submitted its proposal ("Proposal") on _____ <insert date> in response to the RFP. City's evaluation panel determined that DBE's Proposal offered the best value to the City.
- E. On _____ <insert date>, the City Council awarded the Contract for the Project to DBE and authorized the City to enter into this Contract with DBE.
- F. City has awarded the Contract for the Project to DBE in reliance on DBE's representations and qualifications in response to the RFQ and DBE's Proposal, and based on City's determination that DBE's Proposal offers the best value under the criteria set forth in the RFP.

TERMS AND CONDITIONS

The parties agree as follows:

- 1. **Contract Documents.** The Contract Documents are comprised of duly authorized and executed Change Orders; this Contract and any duly authorized and executed amendments thereto; the Notice to Proceed with Design Services; the Notice to Proceed with Construction Services; the Special Conditions; the General Conditions; the Bridging Documents; the City of Cupertino Standard Details; the required payment and performance bonds; the City-approved Construction Documents; the RFP and any addenda thereto; and the Proposal and attachments thereto (excluding any terms or conditions rejected by the City); all of which are incorporated herein.
 - 1.1 **Defined Terms.** Capitalized terms that are used in this Contract or elsewhere in the Contract Documents that are not otherwise defined have the same meanings provided for those terms in Article 1 of the General Conditions.
 - 1.2 **For Reference Only.** The following documents are provided or made available to the DBE "For Reference Only," as specified in Section 3.5 of the Contract General Conditions:

Library Record Drawings, dated November 29, 2004

Geotechnical Report by Treadwell & Rollo, dated May 29, 2002 and revised on November 4, 2002

2. **DBE's Responsibilities.** DBE is responsible for providing the Services necessary to design and construct the Project as required by the Contract Documents. DBE must exercise reasonable skill and judgment in the performance of the Services. DBE must provide, furnish, and supply all services and things necessary and incidental for the timely design, performance and completion of the Project, including provision of all necessary labor, materials, equipment, transportation, onsite facilities, and utilities, unless otherwise specified in the Contract Documents. DBE must use its best efforts to provide the Services in a professional and expeditious manner and to meet or exceed the performance standards required by the Contract Documents.
3. **Payment.**
 - 3.1 **Contract Price.** As full and complete compensation for DBE's timely performance and completion of the Project in strict accordance with the terms and conditions of the Contract Documents, City will pay DBE a lump sum price of \$< _____ > ("Contract Price"), which consists of the following components:
 - (A) **Design Services.** For complete and satisfactory performance of the Design Services, City will pay DBE \$< _____ >.
 - (B) **Construction Services.** For complete and satisfactory performance of the Construction Services, City will pay DBE \$< _____ >.
 - 3.2 **Scope and Limitations.** The Contract Price includes all applicable federal, state, and local taxes and is fully inclusive of all direct and indirect costs, overhead, and profit. The Contract Price is not subject to adjustment due to inflation or due to the increased cost of labor, material, or equipment after the Effective Date.
4. **Time for Completion.** DBE will achieve Final Completion of the Project within 484 calendar days from the date of the Notice to Proceed with Design Services ("Contract Time"). By signing below, DBE expressly waives any claim for delayed early completion.
5. **Liquidated Damages.** If DBE fails to achieve Final Completion within the Contract Time, City will assess liquidated damages in the amount of \$3,000 per day for each day of unexcused delay in achieving Final Completion, and such liquidated damages may be deducted from City's payments due or to become due to DBE under this Contract.
6. **Labor Code Compliance.**
 - 6.1 **General.** The Construction Services, as defined in Article 1 of the General Conditions, are subject to all applicable requirements of Chapter 1 of Part 7 of Division 2 of the Labor Code, including requirements pertaining to wages, working hours and workers' compensation insurance, as further specified in Article 9 of the General Conditions.
 - 6.2 **Prevailing Wages.** The Construction Services are subject to the prevailing wage requirements applicable to the locality in which the Work is to be performed for each craft, classification or type of worker needed to perform the Work, including employer payments for health and welfare, pension, vacation, apprenticeship and

similar purposes. Copies of these prevailing rates are on file with the City and available online at <http://www.dir.ca.gov/DLSR>.

- 6.3 DIR Registration.** DBE, members of its Design-Build Team providing Construction Services, and its Subcontractors, and any other business entity or individual providing Construction Services for the Project, must be registered with the California Department of Industrial Relations (“DIR”) to perform public work pursuant to Labor Code § 1725.5. The Construction Services under this Contract are subject to compliance monitoring and enforcement by the DIR pursuant to Labor Code § 1771.4.
- 6.4 Skilled and Trained Workforce.** By executing this Contract, DBE is providing an enforceable commitment pursuant to Public Contract Code § 2602 and § 22614(c), that a “skilled and trained workforce,” as that term is defined in Public Contract Code § 2601, will be used to complete all Services on the Project that fall within an apprenticeable occupation in the building and construction trades, in accordance with Public Contract Code § 2600 et seq. DBE, members of the Design-Build Team providing Construction Services, and Subcontractors of every tier will comply with these requirements. DBE will provide City with a monthly report while the Project is being constructed evidencing that the DBE, its Design-Build Team (as applicable), and Subcontractors are complying with this requirement.
- 7. Workers’ Compensation Certification.** Pursuant to Labor Code § 1861, by signing this Contract, DBE certifies as follows: “I am aware of the provisions of Labor Code § 3700 which require every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Services on this Contract.”
- 8. Conflicts of Interest.** DBE, members of the Design-Build Team, Subcontractors, and their respective employees and agents, may not have, maintain or acquire a conflict of interest in relation to this Contract in violation of any City ordinance or requirement or in violation of any California law, including Government Code section 1090 et seq., or the Political Reform Act, as set forth in Government Code section 81000 et seq. and its accompanying regulations. No officer, official, employee, consultant, or other agent of the City (“City Representative”) may have, maintain, or acquire a “financial interest” in the Contract, as that term is defined under the Political Reform Act (Government Code section 81000, et seq., and regulations promulgated thereunder); or under Government Code section 1090, et seq.; or in violation of any City ordinance or requirement while serving as a City Representative or for one year thereafter. Any violation of this Section constitutes a material breach of the Contract.
- 9. Independent Contractor.** DBE is an independent contractor under this Contract and will have control of the Services and the manner in which they are performed. DBE, members of the Design-Build Team, and its Subconsultants and Subcontractors are not employees of City and are not entitled to participate in any health, retirement, or any other employee benefits from City.
- 10. Notice.** Any notice, billing, or payment required by or pursuant to the Contract Documents must be made in writing, signed, dated and sent to the other party by personal delivery, U.S. Mail, a reliable overnight delivery service, or by email as a PDF file. Notice is deemed effective upon delivery, except that service by U.S. Mail is deemed effective on the second working day after deposit for delivery. Notice for each party must be given as follows:

City:

Name: City of Cupertino

Address: 10300 Torre Avenue
City/State/Zip: Cupertino, CA 95014
Phone: (408) 777-3354
Attn: Director of Public Works
Email: MichaelZ@cupertino.org
Copy to: PWInvoices@cupertino.org

DBE:

Name: _____
Address: _____
City/State/Zip: _____
Phone: _____
Attn: _____
Email: _____
Copy to: _____

11. General Provisions.

- 11.1 Assignment and Successors.** DBE may not assign its rights or obligations under this Contract, in part or in whole, without City's prior written consent. This Contract is binding on DBE's lawful heirs, successors and permitted assigns.
- 11.2 Third Party Beneficiaries.** There are no intended third-party beneficiaries to this Contract.
- 11.3 Governing Law and Venue.** This Contract will be governed by California law and venue will be in the Santa Clara County Superior Court, and no other place. DBE waives any right it may have pursuant to Code of Civil Procedure § 394, to file a motion to transfer any action arising from or relating to this Contract to a venue outside Santa Clara County, California.
- 11.4 Amendment.** With the exception of unilateral Change Orders issued by City pursuant to Section 6.4 of the General Conditions, no amendment or modification of this Contract will be binding unless it is in a Change Order duly authorized and signed by the parties to this Contract.
- 11.5 Integration.** This Contract and the Contract Documents incorporated herein, including authorized amendments or Change Orders thereto, constitute the final, complete, and exclusive terms of the agreement between City and DBE.
- 11.6 Severability.** If any provision of the Contract Documents, or portion of a provision, is determined to be illegal, invalid, or unenforceable, the remaining provisions of the Contract Documents will remain in full force and effect.
- 11.7 Iran Contracting Act.** DBE certifies, by signing below, that it is not identified on a list created under the Iran Contracting Act, Public Contract Code § 2200 et seq. (the "Act"), as a person engaging in investment activities in Iran, as defined in the Act, or is otherwise expressly exempt under the Act.
- 11.8 Authorization.** Each individual signing below warrants that he or she is authorized to do so by the party that he or she represents, and that this Contract is legally binding on that party. If DBE is a corporation, signatures from two officers of the corporation are required pursuant to California Corporation Code § 313.

The parties agree to this Contract as witnessed by the signatures below:

DESIGN-BUILD ENTITY

CITY OF CUPERTINO
A Municipal Corporation

<insert full name of DBE above>

By _____
Name _____
Title _____
Date _____

By _____
Roger Lee
Director of Public Works
Date _____

By _____
Name _____
Title _____
Date _____

APPROVED AS TO FORM:

By _____
Heather Minner
City Attorney
Date _____

ATTEST:

Kirsten Squarcia
City Clerk
Date _____

Contract Amount: _____
P.O. No. _____
Account No. _____

END OF DESIGN-BUILD CONTRACT

Payment Bond

The City of Cupertino ("City") and _____ ("DBE") have entered into a design-build contract, dated _____, 20____ ("Contract") for design-build delivery of the **Cupertino Library Expansion Project** ("Project"). The Contract is incorporated by reference into this Payment Bond ("Bond").

1. **General.** Under this Bond, DBE as principal and _____, its surety ("Surety"), are bound to City as obligee in an amount not less than \$_____, based on 100% of the Construction Services price as specified in Section 3 of the Contract (and as defined in Article 1 of the Contract General Conditions), under California Civil Code § 9550 et seq., to ensure payment to authorized claimants. This Bond is binding on the respective successors, assigns, owners, heirs, or executors of Surety and DBE.
2. **Surety's Obligation.** If DBE or any of its contractors or subcontractors fails to pay any person authorized in California Civil Code § 9100 to assert a claim against a payment bond, any amounts due under the Unemployment Insurance Code with respect to work or labor performed under the Contract, or any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of DBE and its contractors or subcontractors, under California Unemployment Insurance Code § 13020, with respect to the work and labor, then Surety will pay the obligation.
3. **Beneficiaries.** This Bond inures to the benefit of any of the persons named in California Civil Code § 9100, so as to give a right of action to those persons or their assigns in any suit brought upon this Bond. DBE must promptly provide a copy of this Bond upon request by any person with legal rights under this Bond.
4. **Duration.** If DBE promptly makes payment of all sums for all labor, materials, and equipment furnished for use in the performance of the Work required by the Contract, in conformance with the time requirements set forth in the Contract and as required by California law, Surety's obligations under this Bond will be null and void. Otherwise, Surety's obligations will remain in full force and effect.
5. **Waivers.** Surety waives any requirement to be notified of alterations to the Contract or extensions of time for performance of the Work under the Contract. Surety waives the provisions of Civil Code §§ 2819 and 2845. City waives the requirement of a new bond for any supplemental contract under Civil Code § 9550. Any notice to Surety may be given in the manner specified in the Contract and delivered or transmitted to Surety as follows:

Attn: _____
Address: _____
City/State/Zip: _____
Phone: _____
Fax: _____
Email: _____

6. **Law and Venue.** This Bond will be governed by California law, and venue for any dispute pursuant to this Bond will be in the Santa Clara County Superior Court, and no other place. Surety will be responsible for City's attorneys' fees and costs in any action to enforce the provisions of this Bond.

7. **Effective Date; Execution.** This Bond is entered into and is effective on _____,
20__.

SURETY: _____
Business Name

s/ _____

Name/Title

Date: _____

(Attach Acknowledgment with Surety's Notary Seal and Power of Attorney.)

DBE: _____
Business Name

s/ _____

Name/Title

Date: _____

s/ _____

Name/Title

END OF PAYMENT BOND

Performance Bond

The City of Cupertino ("City") and _____ ("DBE") have entered into a design-build contract, dated _____, 20____ ("Contract") for design-build delivery of the **Cupertino Library Expansion Project** ("Project"). The Contract is incorporated by reference into this Performance Bond ("Bond").

1. **General.** Under this Bond, DBE as Principal and _____, its surety ("Surety"), are bound to City as obligee for an amount not less than \$ _____, based on 100% the Construction Services price as specified in Section 3 of the Contract (and as defined in Article 1 of the Contract General Conditions), to ensure DBE's faithful performance of its obligations under the Contract. By executing this Bond, DBE and Surety bind themselves and their respective heirs, executors, administrators, successors, and assigns, jointly and severally, to the provisions of this Bond.
2. **Surety's Obligations.** Surety's obligations are co-extensive with DBE's obligations under the Contract. If DBE fully performs its obligations under the Contract, including its warranty obligations under the Contract, Surety's obligations under this Bond will become null and void. Otherwise Surety's obligation will remain in full force and effect.
3. **Waiver.** Surety waives any requirement to be notified of and further consents to any alterations to the Contract made under the applicable provisions of the Contract Documents, including changes to the scope of the Construction Services or extensions of time for performance of the Construction Services under the Contract. Surety waives the provisions of Civil Code §§ 2819 and 2845.
4. **Application of Contract Balance.** Upon making a demand on this Bond, City will make the Contract Balance available to Surety for completion of the Construction Services under the Contract. For purposes of this provision, the Contract Balance is defined as the total amount payable by City to DBE as the Construction Services price minus amounts already paid to DBE for the Construction Services, and minus any liquidated damages, credits, or back charges to which City is entitled under the terms of the Contract.
5. **DBE Default.** Upon written notification from City of DBE's termination for default under Article 13 of the Contract General Conditions, time being of the essence, Surety must act within the time specified in Article 13 to remedy the default through one of the following courses of action:
 - 5.1 Arrange for completion of the Construction Services under the Contract by DBE, with City's consent, but only if DBE is in default solely due to its financial inability to complete the Construction Services;
 - 5.2 Arrange for completion of the Construction Services under the Contract by a qualified contractor acceptable to City, and secured by performance and payment bonds issued by an admitted surety as required by the Contract Documents, at Surety's expense; or
 - 5.3 Waive its right to complete the Construction Services under the Contract and reimburse City the amount of City's costs to have the remaining Construction Services completed.
6. **Surety Default.** If Surety defaults on its obligations under the Bond, City will be entitled to recover all costs it incurs due to Surety's default, including legal, design professional, or delay costs.

7. **Notice.** Any notice to Surety may be given in the manner specified in the Contract and sent to Surety as follows:

Attn: _____
Address: _____
City/State/Zip: _____
Phone: _____
Fax: _____
Email: _____

8. **Law and Venue.** This Bond will be governed by California law, and venue for any dispute pursuant to this Bond will be in the Santa Clara County Superior Court, and no other place. Surety will be responsible for City's attorneys' fees and costs in any action to enforce the provisions of this Bond.

9. **Effective Date; Execution.** This Bond is entered into and effective on _____, 20____.

SURETY: _____
Business Name

s/ _____

Name/Title

(Acknowledgment with Notary Seal for Surety and Surety's Power of Attorney must be attached.)

DBE: _____
Business Name

s/ _____

Name/Title

Date: _____

s/ _____

Name/Title

Date: _____

END OF PERFORMANCE BOND

General Conditions

Article 1 – Definitions

Definitions. The following definitions apply to all of the Contract Documents unless otherwise indicated, e.g., additional definitions that apply solely to the Specifications or other technical documents. Defined terms and titles of documents are capitalized in the Contract Documents, with the exception of the following (in any tense or form): “day,” “furnish,” “including,” “install,” “work day” or “working day.”

Allowance means a specific amount that must be included in DBE's Proposal for a specified purpose (if applicable).

Architect of Record means the architect retained by DBE with authority to stamp the final Construction Documents provided by DBE.

Article, as used in these General Conditions, means a numbered Article of the General Conditions, unless otherwise indicated by the context.

Bridging Documents means the documents containing City's design and construction criteria for the Project as further detailed in Article 3, and as attached to or incorporated into the RFP, including any City-approved modifications thereto.

Change Order means a written document duly approved and executed by City, which changes the scope of Services or Work, the Contract Price, or the Contract Time.

City means the City of Cupertino, acting through its City Council, officers, employees, City Engineer, and any other authorized representatives.

City Engineer means the City Engineer for City and his or her authorized delegee(s).

Claim means a separate demand by DBE for a change in the Contract Time or Contract Price, that has previously been submitted to City in accordance with the requirements of the Contract Documents, and which has been rejected by City, in whole or in part; or a written demand by DBE objecting to the amount of Final Payment.

Construction Documents means the final City-approved Design Documents for constructing the Project.

Construction Manager means the designated representative(s) of Nova Partners, Inc., which has been retained under separate contract with the City to provide construction management services for the Project.

Construction Phase means the period during which Work is performed to construct the Project, beginning with City's issuance of a Notice to Proceed with Construction Services.

Construction Services means all of the Work required to construction the Project based on the City-approved Design Documents, excluding the Design Services, but including all of the services required to be provided or customarily provided by or under the direction of a licensed general contractor.

Contract means the signed design-build contract between City and DBE and the Contract Documents incorporated therein.

Contract Documents means, collectively, all of the documents listed in Section 1 of the Contract.

Contract Price means the total compensation to be paid to DBE for performance of the Design Services and the Construction Services as set forth in Section 3 of the Contract and as may be amended by Change Order.

Contract Time means the time specified for completion of the Project, as set forth in Section 4 of the Contract and as may be amended by Change Order.

Day means a calendar day unless otherwise specified.

Design-Build Entity (or DBE) means the corporation, limited liability company, partnership, joint-venture, or other legal entity that provides appropriately licensed contracting, architectural, and engineering services pursuant to the Contract and DBE's Proposal.

Design-Build Team (or DB Team) means the DBE itself and the other individuals and entities identified in DBE's Proposal as members of its DB Team, including the general contractor and required Subcontractors.

Design Development Documents means intermediate design documents based on the Bridging Documents.

Design Documents means, collectively, the City-approved plans and specifications developed for construction of the Project based on the Bridging Documents, including Design Development Documents, and Construction Documents.

Design Phase means the period during which the Design Services are provided, which begins upon the City's issuance of a Notice to Proceed with Design Services and concludes upon City approval of the final Construction Documents.

Design Professional means any architect, including the Architect of Record, engineer, landscape architect, or land surveyor licensed and in good standing under the applicable provisions of the California Business and Professions Code, who is retained or employed by DBE to provide Design Services for the Project, based on his or her licensed authority.

Design Services means all services necessary to design the Project in conformance with the Bridging Documents, including development of the Design Documents and all services required to be provided by or customarily provided under the direction of a licensed architect or other Design Professional, including services provided by Design Professionals during the Design Phase and Construction Phase and Pre-Construction Services, but excluding the Construction Services.

DIR means the California Department of Industrial Relations.

Engineer means the City Engineer for the City of Cupertino and his or her authorized delegates.

Excusable Delay is defined in Section 5.3(B), Excusable Delay.

Final Completion means DBE has fully completed all of the Work required by the Contract Documents, including all punch list items and commissioning, and has provided all required submittals, including the instructions and manuals, and as-built drawings to City's satisfaction.

Final Payment means City's payment to DBE of the unpaid Contract Price, following City acceptance of the Project, including release of undisputed retention, but excluding amounts withheld pursuant to the Contract Documents, including liquidated damages, up to 125% of the

amount of any unreleased stop notice, amounts subject to setoff, and up to 150% of any amount in dispute as authorized by Public Contract Code § 7107.

Furnish means to purchase and deliver for the Project.

Government Code Claim means a claim submitted pursuant to California Government Code § 900 et seq.

Hazardous Materials means any substance or material identified now or in the future as hazardous under any Laws, or any other substance or material that may be considered hazardous or otherwise subject to Laws governing handling, disposal, or cleanup.

Including, whether or not capitalized, means “including, but not limited to,” unless the context requires otherwise.

Inspector means the individual(s) or firm(s) retained by City to inspect the workmanship, materials, and manner of construction of the Project and its components to ensure compliance with the Contract Documents and all Laws.

Install means to fix in place for materials, and to fix in place and connect for equipment.

Laws means all applicable local, state, and federal laws, regulations, rules, codes, ordinances, permits, orders, and the like enacted or imposed by or under the auspices of any governmental entity with jurisdiction over the Project or any portion of the Project.

Non-Excusable Delay is defined in Section 5.3(C), Non-Excusable Delay.

Pre-Construction Services mean those Services which are preliminary to commencement of the Construction Services, including, but not limited to, investigation and preparatory work, constructability assessment, cost estimating, value engineering, provision of schedules, and all activities to ensure seamless transition of the Project through design to the start of construction, such as timely execution of any and all communications, notifications, and meetings necessary to convey information and respond to questions during this phase.

Project means the **Cupertino Library Expansion Project**.

Project Manager means the individual designated by City to oversee and manage the Project on City’s behalf and may include his or her authorized delegee(s) when the Project Manager is unavailable. If no Project Manager has been designated for this Project, any reference to Project Manager is deemed to refer to the Engineer.

Proposal means the Proposal dated < _____, 2020>, submitted by DBE in response to City’s Request for Proposals.

Recoverable Costs is defined in Section 5.3(G), Recoverable Costs.

Request for Proposals (or RFP) means the request for proposals issued by City on June 19, 2020, soliciting proposals for design-build delivery of this Project, and includes any addenda thereto.

Section when used in these General Conditions, means a numbered Section of the General Conditions, unless otherwise indicated by the context.

Services means, collectively, all of the Design Services and all of the Construction Services which must be performed to completely design and construct the Project in accordance with the Contract Documents, including labor, materials, supplies, and equipment.

Skilled and Trained Workforce has the same meaning as subdivision (d) of Public Contract Code § 2601.

Specifications, whether or not capitalized, means the technical specifications in the City-approved final Construction Documents for the Project, unless otherwise indicated by the context (e.g., development of specifications for approval during the Design Phase).

Subcontractor means all licensed contractors, of any tier, retained by DBE or any member of the DB Team to provide the Construction Services.

Subconsultant means any professional retained by DBE or a member of the DB Team to provide Services other than Construction Services.

Work means all of the Services necessary for or incidental to completing the Project based on the City-approved Construction Documents in conformance with the requirements of the Contract Documents.

Work Day or Working Day, whether or not capitalized, means a weekday when the City is open for business, and does not include holidays observed by the City or furlough days when City staff is unavailable. If a holiday falls on a Saturday, the preceding Friday will be the holiday. If a holiday falls on a Sunday, the following Monday will be the holiday. Holidays observed by the City and furlough days are:

- a. New Year's Day, January 1;
- b. Martin Luther King Jr.'s Birthday, third Monday in January;
- c. Lincoln's Birthday, February 12;
- d. Presidents' Day, third Monday in February;
- e. Memorial Day, last Monday in May;
- f. Independence Day, July 4;
- g. Labor Day, first Monday in September;
- h. Veterans' Day, November 11;
- i. Thanksgiving Day, as designated by the President;
- j. The Day following Thanksgiving Day;
- k. Christmas Day, December 25;
- l. City Closure, December 24, 26, 27, 28, 29, 30 and 31: and
- m. Each day appointed by the Governor of California and formally recognized by the Santa Clara County Board of Supervisors as a day of mourning, thanksgiving, or special observance.

Worksite means the place or places where the Work is performed, which includes, but may extend beyond the Project site, including separate locations for staging, storage or fabrication.

Article 2 – Roles and Responsibilities

2.1 Relationship with City. DBE accepts the relationship of trust and confidence established between it and City under this Contract. DBE agrees to provide the Services necessary for the complete design and construction of the Project and to use its best efforts to complete the Project in the best and soundest way and in the most efficient and

economical manner consistent with the City's objectives as expressed in the RFP and Bridging Documents, and in compliance with Laws.

(A) **Acting on Behalf of City Prohibited.** Neither DBE, members of the DB Team, nor any of their agents or employees may act on behalf of or in the name of City except as authorized in writing by City.

(B) **Conflicts of Interest.** DBE must perform its obligations with integrity and avoid conflicts of interest in violation of Laws, including conflicts of interest pertaining to any person or entity that provided services to the City relating to the solicitation of design-build services. (See Public Contract Code § 22162.)

(C) **City Representatives.** The Engineer, acting within the authority conferred by the City Council, has primary responsibility for Project administration. The Engineer's decisions are final and conclusive within the scope of his or her authority, including interpretation of the Contract Documents. The Project Manager assigned by the City will have primary responsibility for daily administration of the Project, assisted by the Construction Manager. The Construction Manager will be the DBE's primary point of contact for communication and submittals. Unless otherwise specified, all communications and submittals (in any form) should be directed to the Construction Manager and copied to the Project Manager. City reserves the right to reassign or replace the Project Manager or Construction Manager at any time or to delegate his or her duties to additional City representatives without prior notice to or consent of the DBE.

2.2 Scope of Services. DBE is responsible for procuring or providing all of the Services necessary for the Project as specified in the Contract Documents, including all labor, materials, equipment and incidentals necessary to timely complete the Project in strict accordance with the Contract Documents and with minimal inconvenience or risk to the public. DBE must exercise reasonable skill and judgment in the procurement and provision of the Services, consistent with the applicable industry practices, Laws, and the terms and conditions of the Contract Documents.

2.3 Design Services. DBE must provide all architectural, engineering, and related professional services necessary for the Project during both the Design Phase and the Construction Phase, including design of the Project based on the Contract Documents, which may include development or preparation of plans, sections, and elevations; criteria and sizing of components; equipment sizes, capacities, and layouts; typical details; materials selections; investigation of or measured drawings of existing conditions or improvements; verification of the accuracy of any City-provided drawings (including the Bridging Documents) or other information on existing conditions; surveys; site evaluations; cost estimates; Pre-Construction Services; and preparation of models, renderings, or mock-ups.

(A) **Design Professionals.** Architectural, landscape architectural, engineering, and land surveying services must be provided by licensed, independent Design Professionals employed by or retained by DBE or members of the DB Team, or as permitted by Laws. DBE may not engage the services of any Design Professional for this Project, including but not limited to firms or individuals serving as Architect of Record or providing other Design Services, without obtaining City's prior written approval, which approval will not be unreasonably withheld. City's approval will not be deemed to create any contractual relationship between City and any such Design Professional, except that City must be considered a third party beneficiary of the Design Professional's services for the Project. City's approval of the Construction Documents will not operate to shift liability for errors and omissions from DBE to City. DBE is solely responsible for any and all costs incurred due to errors and omissions in the Construction Documents.

(1) *Bridging Documents*. All Design Services must be consistent with and guided by the Bridging Documents.

(2) *Ongoing Design Services*. The Design Professional(s) must provide ongoing Design Services as needed during the Construction Phase, including interpretation and clarification of all drawings and specifications prepared by the Design Professional(s), and preparation of documents for proper execution of the Work, including Change Orders.

(B) **Project Schedule**. Within 10 days following the date of the City's Notice to Proceed with Design Services, DBE must prepare, and submit for City's review and approval, a preliminary Project Schedule showing the timing and sequencing of all Services required to design and construct the Project. The preliminary Project Schedule should include development and approval of Design Documents; DBE's procurement of permits and utility services; procurement of Subcontractors; submission and approval of construction cost estimate updates; construction; Final Completion; submission of as-builts; as well as any other milestones applicable to the Project as may be further specified in the Notice to Proceed with Design Services.

(1) *Schedule Updates*. The Project Schedule must be updated for City's review and approval as further specified in the Contract Documents.

(2) *Assumptions for City Review Times*. The Project Schedule and all updates should reflect the following assumptions for City review:

(a) Assume a minimum review period of one week following submittal of 100% Design Development Documents and 100% Construction Documents pursuant to subsection (C), below, plus an additional week to revise and resubmit if requested by City.

(b) Assume a minimum review period of one week following submittal of any permit drawings, plus an additional week to revise and resubmit if requested by City.

(c) Assume the following City Building Department plan check review periods for all required permits (including trade permits): 21 calendar days for initial plan check review, and 15 calendar days for each subsequent review.

(d) The assumptions set forth above are provided solely for scheduling purposes and do not bind the City to complete its review of any submittal within the assumed time, and the assumed times do not account for delays attributable to DBE's incomplete or non-compliant submittals.

(C) **Design Documents**. DBE must prepare, and submit for City's review and approval, Design Documents based on and consistent with the Bridging Documents. Any deviation from or inconsistency from the Bridging Documents must be approved in writing in advance by City. The Design Documents must also comply with City's Standard Details, to the extent applicable to the Project, as determined by the Engineer. The Design Documents must be developed and submitted for City's review and approval at completion of each design phase as specified below. City's approval of the Design Documents at any phase, including final approval of the Construction Documents, does not operate as a waiver of any deviations from the Bridging Documents that specifically were not approved by City. City retains the right at all times to condition approval on design modifications to ensure the Project is completed within budget and suited for its intended purposes.

(1) *Contents.* The Construction Documents must set forth in detail the quality levels of and the requirements for construction of the Project and must comply with all applicable Laws in effect at the time of their preparation.

(2) *Design Documents Development.* When submitting the Design Documents to City at each stage of development, DBE must identify in writing all material changes and deviations from the Bridging Documents or previously approved version of the Design Documents. Two printed sets and one reproducible set of Design Documents must be provided to City at each submittal. Each submittal and resubmittal must be accompanied by an updated version of the Project Schedule required pursuant to Section 2.3(B), above, clearly indicating and explaining any modifications from the prior schedule submission. DBE must submit Design Documents to City for City's review and approval as follows:

(a) *Design Development Phase (100%).* Within 5 weeks after City's after issuance of the Notice to Proceed with Design Services, DBE must submit Design Development Documents, including and incorporating all City modifications, as applicable. The Design Development Documents should include, at a minimum, more detailed site improvement plans, plans, sections, elevations with full dimensions, details, and outline material specifications. Following City review, DBE must incorporate any modifications, additions or deletions required by City prior to the next submission.

(b) *Construction Document Phase (100%).* Within 12 weeks after City's approval or conditional approval of the Design Development Documents, DBE must submit Construction Documents for approval by City. The Construction Documents should include all pertinent details and information for planning review, permitting, and construction of the Project. Following City review and comment, DBE must incorporate any modifications, additions or deletions required by City before resubmitting the Construction Documents for final approval. DBE may not proceed with any of the Construction Services until City has approved the Construction Documents as final and issued the Notice to Proceed with Construction Services, unless and to the extent that City provides written authorization for DBE to commence specific portions of the Work, e.g., preliminary site work, prior to final approval.

(3) *Substitutions.* Any specification in the Bridging Documents or in the City-approved final Construction Documents designating a material, product, thing or service (collectively, an "item") by specific brand or trade name, followed by the words "or equal," is intended only to indicate quality and type of item desired, and DBE may request use of any equal item. A request for substitution of an item specified in the Bridging Documents must be submitted to City for approval with the Design Development Documents. All data substantiating the proposed substitute as an equal item must be submitted with the written request for substitution. DBE has the burden of proving the equality of the proposed substitution. The City has sole discretion to determine whether a proposed substitution is equal, and the determination is final.

(D) ***Ownership of Documents.*** No portion of the Contract Documents may be used for any purpose other than construction of the Project, without prior written consent from City. DBE is deemed to have conveyed the copyright in any Design Documents (at any stage of development), Shop Drawings, as-builts, or other

documents (in paper or electronic form) developed by DBE for the Project, and City will retain all rights to such works, including the right to possession.

(1) *Ownership of Tangible Documents.* City must receive ownership of all documents, plans, drawings, specifications, electronic data and information prepared, provided or procured by DBE, as part of the Design Services.

(2) *Use of Documents in Event of Termination.* In the event of a termination of this Contract, City will have the right to use, to reproduce, and to make derivative works of the Design Documents (at any stage of development) to complete the Project.

(3) *City's Use of Documents After Completion of Project.* After completion of the Project, City may reuse, reproduce or make derivative works from the Construction Documents for the purposes of maintaining, renovating, remodeling or expanding the Project at the Worksite.

(4) *Right to Use.* DBE will obtain from its Subcontractors and Subconsultants rights and rights of use that correspond to the rights given by DBE to City in this Contract and DBE must provide evidence that such rights have been secured.

(E) **Subconsultants.** DBE must provide duly qualified, licensed, and competent Subconsultants, administration, staff, and skilled workforce necessary to perform and timely complete the Design Services in accordance with the Contract Documents.

2.4 Construction Services. DBE must provide all Construction Services and Work necessary for the Project, including hiring and coordination of all Subcontractors, close-out services, and warranty work.

(A) **General.** DBE must provide all labor, materials, equipment and services necessary to perform and timely complete the Work in strict accordance with the Contract Documents, and in an economic and efficient manner in the best interests of City.

(B) **Responsibility for the Work and Risk of Loss.** DBE is responsible for supervising and directing all aspects of the Work to facilitate the efficient and timely completion of the Work. DBE is solely responsible for, and required to exercise full control over, construction means, methods, techniques, sequences, procedures, and coordination of all portions of the Work, except to the extent that the Contract Documents provide other specific instructions. DBE's responsibilities extend to any plan, method or sequence suggested, but not required by City or specified in the Contract Documents. From the date of commencement of the Work until either the date on which City formally accepts the Project or the effective date of termination of the Contract, whichever is later, DBE bears all risks of injury or damage to the Work and the materials and equipment delivered to any Worksite, by any cause including fire, earthquake, wind, weather, vandalism or theft.

(C) **Construction Administration.** DBE must provide sufficient and competent Subcontractors, administration, staff, and Skilled and Trained Workforce necessary to perform and timely complete the Construction Services in accordance with the Contract Documents. Before starting the Work, DBE must designate in writing and provide complete contact information, including telephone numbers and email address, for the officer or employee in DBE's organization who is to serve as DBE's primary representative for the Project, and who has authority to act on DBE's behalf. A Subcontractor may not serve as DBE's primary representative.

(D) **On-Site Superintendent.** DBE must, at all times during performance of the Construction Services, provide a qualified full-time superintendent acceptable to City, and assistants, as necessary, who must be physically present at the Project site while any aspect of the Work is being performed. The superintendent must have full authority to act and communicate on behalf of DBE, and DBE will be bound by the superintendent's communications to City. City's approval of the superintendent is required before the Construction Phase commences. If, at any time, City is not satisfied with the superintendent's performance, City may request a qualified replacement of the superintendent. Failure to comply may result in temporary suspension of the Work, at DBE's sole expense and with no extension of Contract Time, until an approved superintendent is physically present to supervise the Work. DBE must provide written notice to City, as soon as practicable, before replacing the superintendent.

(E) **Standards.** DBE must, at all times, ensure that the Work is performed in a good workmanlike manner and in full compliance with the Contract Documents and all applicable Laws and applicable manufacturer's recommendations. DBE has a material and ongoing obligation to provide true and complete information, to the best of its knowledge, with respect to all records, documents, or communications pertaining to the Project, including oral or written reports, statements, certifications, Change Order requests, or Claims.

(F) **Meetings.** DBE, its project manager, superintendent, and any primary Subcontractors and suppliers requested by City, must attend a Preconstruction Conference before beginning Work on the Project, and will also be required to attend regular progress meetings, as further specified below and as may be otherwise specified in the Notice to Proceed with Construction Services. City will notify DBE in advance of the date, time, place and required attendees for the Preconstruction Conference and progress meetings and will provide and administer the agenda. DBE is responsible for notifying its major Subcontractors and suppliers, and other required attendees, as applicable, of the date, time and place for the Preconstruction Conference and progress meetings; for providing them with the City's agenda; and for requiring their attendance at these meetings. If applicable, DBE may also be required to participate in coordination meetings with other parties relating to other work being performed on or near the Project site or in relation to the Project, including work or activities performed by City, other contractors, or other utility owners.

(1) *Preconstruction Conference.* The Preconstruction Conference agenda items may include schedules, personnel and vehicle permit procedures, use of the premises, locations for staging area(s) and jobsite trailers, security, housekeeping, submittal and RFI procedures, Project forms and procedures, inspection and testing procedures, utility shutdown procedures, control and reference point procedures, injury and illness prevention program, DBE's schedule of values, DBE's schedule of submittals, and such other matters that the City deems necessary to address before the Work begins.

(2) *Progress Meetings.* During the course of the Construction Phase, progress meetings will be conducted on a weekly basis by the City and at DBE's on-site office, unless otherwise specified. Progress meeting agenda items may include review of past meeting minutes, review of Work in progress since previous progress meeting, schedule status and updates, status of submittals or change orders, worker safety, and other such matters pertaining to the progress of the Work.

(G) **Responsible Party.** DBE is solely responsible to City for the acts or omissions of any party or parties performing portions of the Work or providing equipment, materials or services for or on behalf of DBE or its Subcontractors. Upon City's written request,

DBE must promptly and permanently remove from the Project, at no cost to City, any employee or Subcontractor or employee of a Subcontractor who the Engineer has determined to be incompetent, intemperate or disorderly, or who has failed or refused to perform the Work as required under the Contract Documents.

(H) **Correction of Defects.** DBE must promptly correct, at DBE's sole expense, any Work that is deficient or defective in any way, including workmanship, materials, parts or equipment. Workmanship, materials or equipment that do not conform to the requirements under the Contract Documents, as determined by City, will be considered defective and subject to rejection. DBE must also promptly correct, at Contractor's sole expense, any Work performed beyond the lines and grades authorized or approved by City, and any Extra Work performed without City's prior written approval. If DBE fails to correct or to take reasonable steps toward correcting defective Work within five days following notice from City, or within the time specified in City's notice to correct, City may elect to have the defective Work corrected by its own forces or by a third party, in which case the cost of correction will be deducted from the Contract Price. If City elects to correct defective Work due to DBE's failure or refusal to do so, City or its agents will have the right to take possession of and use any equipment, supplies, or materials available at the Project site or any Worksite on City property, in order to effectuate the correction, at no extra cost to City. DBE's warranty obligations under Section 11.2, Warranty, will not be waived nor limited by City's actions to correct defective Work under these circumstances. Alternatively, City may elect to retain defective Work, and deduct the difference in value, as determined by the Engineer, from payments otherwise due to DBE. This paragraph applies to any defective Work performed by Contractor during the one-year warranty period under Section 11.2.

(I) **Daily Reports.** DBE must keep such full and detailed accounts as may be necessary for proper financial management under this Contract. City must be afforded access to all DBE's records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda and similar data relating to Change Order work performed on the basis of actual cost. DBE must preserve all such records for a period of four years after the final payment or longer where required by Laws.

(J) **DBE's Reports.** DBE must provide periodic written reports to City on the progress of the Work in such detail as is required by City and as agreed to by City and DBE.

(K) **DBE's Records.** DBE must maintain all of its records relating to the Project in any form, including paper documents, photos, videos and electronic records. Project records subject to this provision include, but are not limited to, daily reports, Project cost records and records relating to preparation of DBE's Proposal.

(1) DBE's cost records must include all supporting documentation, including original receipts, invoices, and payroll records, evidencing its direct costs to perform the Work, including, but not limited to, costs for labor, materials and equipment. Each cost record should include, at a minimum, a description of the expenditure with references to the applicable requirements of the Contract Documents, the amount actually paid, the date of payment, and whether the expenditure is part of the original Contract Price, related to an executed Change Order, or otherwise categorized by DBE as extra work. DBE's failure to comply with this provision as to any claimed cost operates as a waiver of any rights to recover the claimed cost.

(2) DBE must continue to maintain its Project records in an organized manner for a period of four years after City's acceptance of the Project or following termination, whichever occurs first. Subject to prior notice to DBE, City is entitled

to inspect or audit any of DBE's Project records relating to the Project or to investigate DBE's plant or equipment during DBE's normal business hours.

(L) **Copies of Contract Documents.** DBE and its Subcontractors must keep copies, at the Project site, of all Work-related documents, including the Contract, permit(s), Construction Documents, Contract amendments, Change Orders, RFIs and RFI responses, Shop Drawings, as-built drawings, schedules, daily reports, testing and inspection reports or results, and any related written interpretations. These documents must be available to City for reference at all times during construction of the Project.

(M) **Construction Records.** DBE will maintain up-to-date, thorough, legible, and dated daily job reports, which document all significant activity on the Project for each day that Work is performed on the Project. The daily report for each day must include the number of workers at the Project site; primary Work activities; major deliveries; problems encountered, including injuries, if any; weather and site conditions; and delays, if any. DBE will take date and time-stamped photographs to document general progress of the Project, including site conditions prior to construction activities, before and after photographs at offset trench laterals, existing improvements and utilities, damage and restoration. DBE will maintain copies of all subcontracts, Project-related correspondence with subcontractors, and records of meetings with Subcontractors. Upon request by the City, DBE will permit review of and/or provide copies of any of these construction records.

2.5 Subcontractors.

(A) **General.** All Work which is not performed by DBE with its own forces will be performed by its Subcontractors. Except for Subcontractors listed in the DBE's Proposal, DBE must award subcontracts with a value exceeding one half of one percent of the Contract Price for Construction Services in compliance with Public Contract Code § 22166(b), including public notice. All Subcontractors bidding on contracts for the Work must be afforded the protections contained in the Subletting and Subcontracting Fair Practices Act (Public Contract Code § 4100 et seq.). DBE must provide each Subcontractor with a complete set of the Construction Documents and any approved modifications thereto. City reserves the right to approve or reject any and all Subcontractors proposed to perform the Work.

(B) **Contractual Obligations.** DBE must require every Subcontractor to be bound to the provisions of the Contract Documents as they apply to the Subcontractor's portion(s) of the Work, and to likewise bind their subcontractors or suppliers. DBE will provide that the rights that each Subcontractor may have against any manufacturer or supplier for breach of warranty or guarantee relating to items provided by the Subcontractor for the Project, will be assigned to City. Nothing in these Contract Documents creates a contractual relationship between a Subcontractor and City, but City is deemed to be a third-party beneficiary of the contract between DBE and each Subcontractor.

(C) **Termination.** If the Contract is terminated, each Subcontractor's agreement must be assigned by DBE to City, subject to the prior rights of any surety, but only if and to the extent that City accepts, in writing the assignment by written notification, and assumes all rights and obligations of DBE pursuant to each such subcontract agreement.

(D) **Substitution of Subcontractor.** If DBE requests substitution of a listed Subcontractor under Public Contract Code § 4107, DBE is solely responsible for all costs City incurs in responding to the request, including legal fees and costs to conduct a hearing, and DBE is also solely responsible for any resulting increase in subcontracting costs.

2.6 Coordination of Work.

(A) **Concurrent Work.** City reserves the right to perform or to have performed other work on or adjacent to the Project site while the Work is being performed. DBE is responsible for coordinating its Work with other work being performed on or adjacent to the Project site, and must avoid hindering, delaying, or interfering with the work of other contractors and subcontractors. To the full extent permitted by law, DBE must hold harmless and indemnify City against any and all claims arising from or related to DBE's avoidable, negligent, or willful hindrance of, delay to, or interference with the work of any utility company or agency or another contractor or subcontractor.

(B) **Defects.** Before proceeding with any portion of the Work affected by the construction or operations of others, DBE must give City prompt written notification of any defects DBE discovers which will prevent the proper execution of the Work. Failure to give notice of any such known defects will be deemed acknowledgement by DBE that the work of others is not defective and will not prevent the proper execution of the Work.

2.7 **Submittals.** Unless otherwise specified, DBE must submit to the Engineer for review and acceptance of all schedules, Shop Drawings, samples, product data and similar submittals required by the Contract Documents, or upon request by the Engineer. Unless otherwise specified, all submittals, including Requests for Information, are subject to the general provisions of this Section, as well as specific submittal requirements that may be included in the Special Conditions or elsewhere in the Contract Documents. Unless otherwise specified, all submittals should be transmitted electronically using standard commercial software programs, including the Special Conditions or Specifications. The Engineer may require submission of a submittal schedule at or before a pre-construction conference, as may be specified in the Notice to Proceed.

(A) **General.** DBE is responsible for ensuring that its submittals are complete, legible, accurate and conform to the Contract Documents. Incomplete or illegible submittals will be rejected and returned for resubmission. DBE must use the applicable forms provided or specified for use by the City, including the Project Forms provided with the Contract Documents, and forms provided by City at the Pre-Construction Conference.

(B) **Time and Manner of Submission.** DBE must ensure that its submittals are prepared and delivered in a manner consistent with the current City-accepted schedule for the Work and within the applicable time specified in the Contract Documents, or if no time is specified, in such time and sequence so as not to delay the performance of the Work or completion of the Project.

(C) **Required Contents.** Each submittal must include the Project name and contract number, DBE's name and address, the name and address of any Subcontractor or supplier involved with the submittal, the date, and references to applicable Specification section(s) and/or drawing and detail number(s).

(D) **Required Corrections.** If corrections are required, DBE must promptly make and submit any required corrections as specified in full conformance with the requirements of this Section, or other requirements that apply to that submittal. If a submittal remains non-compliant after being re-submitted for a second time, City may back-charge DBE for all further review time and additional administrative costs. For City employees the hourly amount charged will be 2.5 times the employee's direct hourly payroll cost to the City. For consultants, the amount charged will be 1.25 times the amount billed to the City for additional review and administrative time.

(E) **Effect of Review and Acceptance.** Review and acceptance of a submittal by City will not relieve DBE from complying with the requirements of the Contract

Documents. DBE is responsible for any errors in any submittal, and review or acceptance of a submittal by City is not an assumption of risk or liability by City.

(F) **Enforcement.** Any Work performed or any material furnished, installed, fabricated or used without City's prior acceptance of a required submittal is performed or provided at DBE's risk, and DBE may be required to bear the costs incident thereto, including the cost of removing and replacing such Work, repairs to other affected portions of the Work or material, and the cost of additional time or services required of City, including costs for the Project Manager or Inspector.

(G) **Excessive RFIs.** A Request for Information (RFI) will be considered excessive or unnecessary if City determines that the explanation or response to the RFI is clearly and unambiguously discernable from the Contract Documents. City's costs to review and respond to excessive or unnecessary RFIs may be deducted from payments otherwise due to DBE, on the same basis as excessive submittal review, under subsection (D) (Required Corrections).

(H) **Construction Phase Substitutions.** This provision governs any DBE request for substitution during the Construction Phase with respect to any Specification in the City-approved Construction Documents designating a material, product, or thing (collectively, "item") or service by specific brand or trade name, followed by the words "or equal." Unless otherwise stated in the Specifications, any reference to a specific brand or trade name for an item that is used solely for the purpose of describing the type of item desired, will be deemed to be followed by the words "or equal." A substitution will only be approved if it is a true "equal" item in every aspect of design, function, and quality, as determined by City, including dimensions, weight, maintenance requirements, durability, fit with other elements, and schedule impacts.

(1) A request for substitution of an item or service must be submitted in writing to the Project Manager sufficiently in advance of the time needed to avoid delay of the Work, factoring in adequate time for testing, re-testing, or resubmittal. The request must be submitted on the City's Substitution Request Form.

(2) Any available data substantiating the proposed substitute as an equal item or service must be submitted with the written request for substitution. DBE's failure to timely provide all necessary substantiation, including any required test results as soon as they are available, is grounds for rejection of the proposed substitution, without further review.

(3) DBE has the burden of proving the equality of the proposed substitution at DBE's sole cost, including testing using methods acceptable to City. City has sole discretion to determine whether a proposed substitution is equal, and City's determination is final.

(4) If the proposed substitution is approved, DBE is solely responsible for any additional costs or time associated with the substituted item or service. If the proposed substitution is rejected, DBE must, without delay, install the item or use the service as specified by City.

(5) City's approval of a proposed substitution will not relieve DBE from any of its obligations under the Contract Documents. In the event DBE makes an unauthorized substitution, DBE will be solely responsible for all resulting cost impacts, including the cost of removal and replacement and the impact to other design elements.

- 2.8 Shop Drawings.** When Shop Drawings are required by the Specifications or requested by the Project Manager, they must be prepared according to best practices at DBE's expense. The Shop Drawings must be of a size and scale to clearly show all necessary details. Unless otherwise specified by City, Shop Drawings must be provided to the Project Manager for review and acceptance at least 30 days before the Work will be performed. If City requires changes, the corrected Shop Drawings must be resubmitted to the Project Manager for review within the time specified by the Project Manager. For all Project components requiring Shop Drawings, DBE will not furnish materials or perform any Work until the Shop Drawings for those components are accepted by City. DBE is responsible for any errors or omissions in the Shop Drawings, shop fits and field corrections, any deviations from the Contract Documents, and for the results obtained by the use of Shop Drawings. Acceptance of Shop Drawings by City does not relieve DBE DBE's responsibility.
- 2.9 Access to Work.** DBE must afford prompt and safe access to any Worksite by City and its employees, agents, or consultants authorized by City; and upon request by City, DBE must promptly arrange for City representatives to visit or inspect manufacturing sites or fabrication facilities for items to be incorporated into the Work.
- 2.10 Personnel.** DBE and its Subcontractors must employ only competent and skillful personnel to perform the Services. DBE and its Subcontractor's supervisors, security or safety personnel, and employees who have unescorted access to the Project site must possess proficiency in English sufficient to read, understand, receive, and implement oral or written communications or instructions relating to their respective job functions, including safety and security requirements. Upon written notification from the Engineer, DBE and its Subcontractors must immediately discharge any personnel who are incompetent, disorderly, disruptive, threatening, abusive, or profane, or otherwise refuse or fail to comply with the requirements of the Contract Documents or Laws, including Laws pertaining to health and safety. Any such discharged personnel may not be re-employed or permitted on the Project in any capacity without City's prior written consent.

Article 3 - Contract Documents

- 3.1 Contract Documents.** The Contract Documents are comprised of the following:
- (A) Duly authorized and executed Change Orders;
 - (B) The Contract;
 - (C) City's Notice to Proceed with Design Services;
 - (D) City's Notice to Proceed with Construction Services;
 - (E) The Special Conditions;
 - (F) The General Conditions;
 - (G) The Bridging Documents;
 - (H) The payment and performance bonds;
 - (I) The City-approved Construction Documents;
 - (J) The Request for Proposals and all addenda thereto;
 - (K) The Proposal; and

(L) The City of Cupertino's Standard Details.

- 3.2 Order of Precedence.** Information included in one Contract Document but not in another will not be considered a conflict or inconsistency. In case of any conflict or inconsistency among the Contract Documents, the order of precedence will follow the order in which the Contract Documents are listed in Section 3.1, above, which are listed from highest to lowest. Any conflict or inconsistency will be resolved to ensure construction of the Project and ensure the City's intended use of the Project.
- 3.3 Bridging Documents.** The Bridging Documents are for general intent of the final Project design and are not considered to be a complete working package. DBE is responsible to hire and coordinate all associated Design Services, including architectural, structural, mechanical, electrical, plumbing, civil engineering, geotechnical, and landscape architecture for the structures and systems, whether shown or implied in the Bridging Documents or required for a complete Project built to current governing codes.
- 3.4 Caltrans Standard Specifications.** (Not used.)
- 3.5 For Reference Only.** DBE is responsible for the careful review of any document, study, or report provided by City or appended to the Contract Documents solely for informational purposes and identified as "For Reference Only." Nothing in any document, study, or report so appended and identified is intended to supplement, alter, or void any provision of the Contract Documents. DBE is advised that City or its representatives may be guided by information or recommendations included in such reference documents, particularly when making determinations as to the acceptability of proposed materials, methods, or changes in the Work. DBE must promptly notify City of any perceived or actual conflict between the Contract Documents and any document provided For Reference Only.
- 3.6 Current Versions.** Unless otherwise specified by City, any reference to standard specifications, technical specifications, or any City or state codes or regulations means the latest specification, code or regulation in effect at the time the Contract is signed.
- 3.6 Conformed Copies.** (Not used.)

Article 4 - Bonds, Indemnity, and Insurance

- 4.1 Payment and Performance Bonds.** No later than ten days following City's final approval of the Construction Documents, DBE must provide a payment bond and a performance bond, each in the penal sum of at least 100% of the estimated price for the Construction Services, using the bond forms included with the Contract Documents.
- (A) **Surety.** Each bond must be issued and executed by a surety admitted in California, and the surety must have a financial rating from A.M. Best Company of A-, class 7 or better, or as otherwise acceptable to the City. If an issuing surety cancels the bond or becomes insolvent, within seven days following written notice from City, DBE must substitute a surety acceptable to City. If DBE fails to substitute an acceptable surety within the specified time, City may, at its sole discretion, withhold payment from DBE until the surety is replaced to City's satisfaction, or terminate the Contract for default.
- (B) **Cost Estimate Updates.** If at any time DBE's updated construction cost estimate exceeds the estimated price for the Construction Services in Section 3 of the Contract by 5%, DBE must replace the initial bonds with bonds based on 100% of the updated estimated price for Construction Services using the bond forms included with the Contract Documents.

4.2 Indemnity and Liability.

(A) **DBE's Indemnity Obligation.** To the fullest extent permitted by law, DBE must indemnify, defend, and hold harmless City, its Council, officers, officials, employees, agents, volunteers and consultants (individually, an "Indemnitee," and collectively the "Indemnitees") from and against any and all liability, loss, damage, claims, causes of action, demands, charges, fines, costs and expenses (including, without limitation, attorney fees, expert witness fees, paralegal fees, and fees and costs of litigation or arbitration) (collectively, "Liability") of every nature arising out of or in connection with the operations of DBE, its employees, Subcontractors, representatives, or agents, in performing the Work or in failing to comply with any obligation of DBE under the Contract, except such Liability caused by the active negligence, sole negligence, or willful misconduct of an Indemnitee. This indemnity requirement applies to any Liability arising from alleged defects in the content or manner of submission of DBE's Proposal for the Contract. DBE's failure or refusal to timely accept a tender of defense pursuant to this Contract will be deemed a material breach of the Contract. This indemnification obligation is not limited in any way by any limitation on the amount or type of damages or compensation payable to or for the DBE or its agents or employees under Workers' Compensation laws, disability benefits laws, or other employee benefit laws. This indemnification obligation is also not limited by any limitation on the amount or type of damages available under any applicable insurance coverage and will survive the expiration or any early termination of this Contract with respect to Liability arising during the term of the Contract. DBE's indemnity obligations under this Contract will survive the expiration or any early termination of the Contract. This indemnity obligation does not apply to any Design Professionals who are covered by subsection (B) below.

(B) **Design Professional Indemnity Obligation.** To the fullest extent permitted by law, subject only to the limitations of Civil Code § 2782.8, the Design Professionals who are members of the DB Team or retained or employed by DBE to provide the Design Services must indemnify, defend, and hold harmless City, its Council, officers, employees, agents, volunteers and consultants (individually, an "Indemnitee," and collectively "Indemnitees") from and against any and all liability, loss, damage, claims, causes of action, demands, charges, fines, costs and expenses (including, without limitation, attorney fees, expert witness fees, paralegal fees, and fees and costs of litigation or arbitration) (collectively, "Liability") of every nature arising out of or in connection with the negligence, recklessness, or willful misconduct of the Design Professionals, except such Liability caused by the active negligence, sole negligence, or willful misconduct of an Indemnitee. This Design Professional indemnification obligation is not limited in any way by any limitation on the amount or type of damages or compensation payable to or for the Design Professionals or their agents or employees under Workers' Compensation laws, disability benefits laws, or other employee benefit laws. This Design Professional indemnification is also not limited by any limitation on the amount or type of damages available under any applicable insurance coverage and will survive the expiration or any early termination of this Contract with respect to Liability arising during the term of the Contract.

(C) **Third Party Claims.** City will timely notify DBE upon receipt of any third-party claim relating to the Contract, as required by Public Contract Code § 9201.

(D) **No Personal Liability.** No member of the City Council or any individual officer, employee or authorized agent of City will be personally liable for any liability arising under this Contract.

4.3 Insurance. DBE will procure and maintain for the duration of the Project, and for five years following the completion of the Project, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Services hereunder by DBE, its agents, representatives, employees, Subconsultants, or Subcontractors.

(A) *Minimum Scope and Limit of Insurance.* Coverage will be at least as broad as the minimum limits set forth below. If DBE maintains broader coverage and/or higher limits than the minimums shown below, City will be entitled to the broader coverage and/or higher limits maintained by DBE. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage will be available to the City. City reserves the right to modify these insurance requirements based on DBE's prior experience, insurer, coverage, and considering the nature of the risk involved in the Services and other circumstances. DBE should discuss these requirements with its insurer and the designated Public Works Agency representative.

(1) *Commercial General Liability (CGL).* Insurance Services Office (ISO) Form CG 00 01 covering CGL on an "occurrence" basis, written on a comprehensive general liability form, and must include coverage for liability arising from DBE's or Subcontractor's acts or omissions, including DBE's protected coverage, blanket contractual, products and completed operations, with limits of at least \$8,000,000 per occurrence. The CGL policy must protect against any and all liability for personal injury, death, property damage or destruction, and personal and advertising injury. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this Project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be \$16,000,000, which is twice the required occurrence limit.

(i) It shall be a requirement under this Contract that any available insurance proceeds broader than or in excess of the specified minimum insurance coverage requirements and/or limits will be made available to the Additional Insured and will be (1) the minimum coverage/limits specified in this Contract; or (2) the broader coverage and maximum limits of coverage of any insurance policy, whichever is greater.

(ii) Additional Insured coverage under DBE's policy shall be "primary and non-contributory," will not seek contribution from City's insurance/self-insurance, and will be at least as broad as ISO CG 20 01 04 13.

(iii) The limits of insurance required may be satisfied by a combination of primary and umbrella or excess insurance, provided each policy complies with the requirements set forth in this Contract. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of City before the City's own insurance or self-insurance shall be called upon to protect City as a named insured.

(2) *Automobile Liability.* ISO Form CA 00 01 covering any auto (Code 1), or if DBE has no owned autos, then hired autos (Code 8) and non-owned autos (Code 9), with limit no less than \$8,000,000 per accident for bodily injury and property damage.

(3) *Workers' Compensation.* As required by the State of California, with statutory limits, and Employer's Liability Insurance of no less than \$1,000,000 per accident for bodily injury or disease, or as otherwise required by statute. If DBE is

self-insured, DBE must provide a Certificate of Permission to Self-Insure, duly authorized by the DIR.

(4) *Professional Liability*. Professional liability with limits no less than \$4,000,000 per occurrence or claim, and \$4,000,000 aggregate.

(5) *Builder's Risk*. Course of Construction insurance utilizing an "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the Project and no coinsurance penalty provisions.

(6) *Pollution and/or Asbestos Legal Liability*. DBEs' Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions with limits no less than \$2,000,000 per occurrence or claim, and \$4,000,000 policy aggregate.

(B) *Self-Insured Retentions*. Self-insured retentions must be declared to and approved by City. At City's option, either: (1) DBE will cause the insurer to reduce or eliminate self-insured retentions as respects City, its officers, officials, employees, and volunteers; or (2) DBE will provide a financial guarantee satisfactory to City guaranteeing payment of losses and related investigations, claim administration, and defense expenses. The policy language will provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or the City.

(C) *Other Insurance Provisions*. The insurance policies are to contain, or be endorsed to contain, the following provisions:

(1) *Additional Insured Status*. The City of Cupertino, its City Council, officers, officials, employees, agents, servants and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of the Services performed by or on behalf of DBE including materials, parts, or equipment furnished. Endorsement of CGL coverage must be at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 if a later edition is used.

(2) *Primary Coverage*. For any claims related to this Project, DBE's insurance coverage must be "primary and non-contributory" and at least as broad as ISO CG 20 01 04 13 with respect to City, its officers, officials, employees and volunteers, and must not seek contribution from City's insurance. If the limits of insurance are satisfied in part by Umbrella/Excess Insurance, the Umbrella/Excess Insurance must contain or be endorsed to contain a provision that such coverage will also apply on a "primary and non-contributory" basis for the benefit of City.

(3) *Notice of Cancellation*. Each insurance policy required must provide that coverage will not be canceled, except with notice to the City. Each certificate of insurance must state that the coverage afforded by the policy is in force and will not be reduced, cancelled or allowed to expire without at least 30 days advance written notice to City, unless due to non-payment of premiums, in which case ten days advance written notice must be provided to City. Such notice must be sent to City via certified mail and addressed to the attention of the City Manager.

(4) *Builder's Risk*. DBE may submit Builder's Risk insurance in the form of Course of Construction coverage, which shall name the City as a loss payee, as its interest may appear. Policy limits must be per occurrence and for all-risk coverage on a 100% completed value basis on the insurable portion of the Project, with no coinsurance penalties, and for the benefit of City. If the Project does not involve new or major reconstruction, City may elect in its sole discretion to accept an Installation Floater policy instead of Builder's Risk. For such projects, the

Property Installation Floater shall include improvement, remodel, modification, alteration, conversion or adjustment to existing buildings, structures, processes, machinery and equipment, and shall provide property damage coverage for any building, structure, machinery or equipment damaged, impaired, broken, or destroyed during the performance of the Work, including during transit, installation, and testing at the City's site.

(5) *Waiver of Subrogation.* Each required policy must include an endorsement providing that the carrier agrees to waive any right of subrogation it may have against City. DBE agrees to waive rights of subrogation which any insurer of DBE may acquire from DBE by virtue of the payment of any loss. DBE agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation. The Workers' Compensation policy must be endorsed with a waiver of subrogation in favor of the City for all work performed by the DBE, its employees, agents and Subcontractors.

(6) *Acceptability of Insurers.* Insurance must be issued by insurers acceptable to City and licensed to do business in the State of California, and each insurer must have an A.M. Best's financial strength rating of "A-" or better and a financial size rating of "VII" or better.

(7) *Verification of Coverage.* DBE will furnish the City with original certificates and amendatory endorsements, or copies of the applicable insurance language, evidencing the coverage required by this Contract. All certificates and endorsements are to be received by the City no later than five days following City Council approval of the Contract. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time.

(8) *Subcontractors.* DBE will require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and DBE will ensure that City is an additional insured on insurance required from subcontractors. For CGL coverage subcontractors will provide coverage with a form at least as broad as CG 20 38 04 13.

(9) *Claims Made Policies.* If any coverage required is written on a claims-made coverage form:

(i) The retroactive date must be shown, and this date must be before the execution date of the Contract or the beginning of the Services.

(ii) Insurance must be maintained and evidence of insurance must be provided for at least five years after completion of the Services.

(iii) If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Effective Date of the Contract, or start of Services, the DBE must purchase extended reporting period coverage for a minimum of five years after completion of the Services.

(iv) A copy of the claims reporting requirements must be submitted to the City for review.

(v) If the Services involve lead-based paint or asbestos identification/remediation, the DBE's Pollution Liability policy must not contain lead-based paint or asbestos exclusions. If the Services involve

mold identification/remediation, the DBE's Pollution Liability policy must not contain a mold exclusion, and the definition of "pollution" must include microbial matter, including mold.

Article 5 - Contract Time

5.1 Time is of the Essence. Time is of the essence in DBE's performance and completion of the Work, and DBE must diligently prosecute the Work and complete it within the Contract Time.

(A) **General.** DBE must commence the Services on the date indicated in the Notice to Proceed with Design Services, and must fully perform the Services and complete the Project in strict compliance with all requirements of the Contract Documents, and within the Contract Time.

(B) **Rate of Progress.** DBE and its Subcontractors must, at all times, provide workers, materials, and equipment sufficient to maintain the rate of progress necessary to ensure full completion of the Work within the Contract Time. If City determines that DBE is failing to prosecute the Work at a sufficient rate of progress, City may, in its sole discretion, direct DBE to provide additional workers, materials, or equipment, or to work additional hours or days without additional cost to City, in order to achieve a rate of progress satisfactory to City. If DBE fails to comply with City's directive in this regard, City may, at DBE's expense, separately contract for additional workers, materials, or equipment or use City's own forces to achieve the necessary rate of progress. Alternatively, City may terminate the Contract based on DBE's default.

5.2 Schedule Requirements. All schedules must be prepared using standard, commercial scheduling software acceptable to the Engineer, and must provide schedules in electronic and paper form as requested.

(A) **Baseline (As-Planned) Schedule.** Within ten calendar days following City's approval of the final Construction Documents, DBE must submit to City for review and acceptance a baseline (as-planned) Project schedule using critical path methodology showing in detail how DBE plans to perform and fully complete the Construction Services within the Contract Time, including labor, equipment, materials, and fabricated items. The baseline schedule for Construction Services must show the order of the major items of Work and the dates of start and completion of each item, including when the materials and equipment will be procured. The schedule must also include the work of all trades, reflecting anticipated labor or crew hours and equipment loading for the construction activities, and must be sufficiently comprehensive and detailed to enable progress to be monitored on a day-by-day basis. For each activity, the baseline schedule must be dated, provided in the format specified in the Contract Documents or as required by City, and must include, at a minimum, a description of the activity, the start and completion dates of the activity, and the duration of the activity.

(1) **Specialized Materials Ordering.** Within five calendar days following issuance of the Notice to Proceed with Construction Services, DBE must order any specialized material or equipment for the Work that is not readily available from material suppliers. DBE must also retain documentation of the purchase orders date(s).

(B) **City's Review of Schedules.** City will review and may note exceptions to the baseline schedule, and to the progress schedules submitted as required below, to assure completion of the Work within the Contract Time. DBE is solely responsible for resolving any exceptions noted in a schedule and, within seven days, must correct the schedule to

address the exceptions. City's review or acceptance of Contractor's schedules will not operate to waive or limit Contractor's duty to complete the Project within the Contract Time, nor to waive or limit City's right to assess liquidated damages for Contractor's unexcused failure to do so.

(C) **Progress Schedules.** After City accepts the final baseline schedule with no exceptions, DBE must submit an updated progress schedule and three-week look-ahead schedule, in the format specified by City, for review and acceptance with each application for a progress payment, or when otherwise specified by City, until completion of the Work. The updated progress schedule must: show how the actual progress of the Work as constructed to date compares to the baseline schedule; reflect any proposed changes in the construction schedule or method of operations, including to achieve Project milestones within the Contract Time; and identify any actual or potential impacts to the critical path. DBE must also submit periodic reports to City of any changes in the projected material or equipment delivery dates for the Project.

(1) *Float.* The progress schedule must show early and late completion dates for each task. The number of days between those dates will be designated as the "float." Any float belongs to the Project and may be allocated by the Project Manager to best serve timely completion of the Project.

(2) *Failure to Submit Schedule.* Reliable, up-to-date schedules are essential to efficient and cost-effective administration of the Project and timely completion. If DBE fails to submit a schedule within the time periods specified in this Section, or submits a schedule to which City has noted exceptions that are not corrected, City may withhold or deduct up to ten percent from payment(s) otherwise due to DBE until the exceptions are resolved, the schedule is corrected and resubmitted, and City has accepted the schedule. In addition, DBE's failure to comply with the schedule requirements in this Section 5.2 will be deemed a material default and a waiver of any claims for Excusable Delay or loss of productivity arising during any period when Contractor is out of compliance, subject only to the limits of Public Contract Code section 7102.

(D) **Recovery Schedule.** If City determines that the Work is more than one week behind schedule, within seven days following written notice of such determination, DBE must submit a recovery schedule, showing how DBE intends to perform and complete the Work within the Contract Time, based on actual progress to date.

(E) **Effect of Acceptance.** DBE and its Subcontractors must perform the Work in accordance with the most current City-accepted schedule unless otherwise directed by City. City's acceptance of a schedule does not operate to extend the time for completion of the Work or any component of the Work, and will not affect City's right to assess liquidated damages for Contractor's unexcused delay in completing the Work within the Contract Time.

(F) **Posting.** DBE must at all times prominently post a copy of the most current City-accepted progress or recovery schedule in its on-site office.

(G) **Reservation of Rights.** City reserves the right to direct the sequence in which the Work must be performed or to make changes in the sequence of the Work in order to facilitate the performance of work by City or others, or to facilitate City's use of its property. The Contract Time or Contract Price may be adjusted to the extent such changes in sequence actually increase or decrease Contractor's time or cost to perform the Work.

(H) **Authorized Working Days and Times.** With respect to the Construction Services performed at the Project site, DBE is limited to working Monday through Friday, excluding holidays, during City's normal business hours, except as provided in the Special Conditions or as authorized in writing by City. City reserves the right to charge DBE for additional costs incurred by City due to Work performed on days or during hours not expressly authorized in the Contract Documents, including reimbursement of costs incurred for inspection, testing, and construction management services.

5.3 Delay and Extensions of Contract Time.

(A) **Notice of Delay.** If DBE becomes aware of any actual or potential delay affecting the critical path, DBE must promptly notify the Engineer in writing, regardless of the nature or cause of the delay, so that City has a reasonable opportunity to mitigate or avoid the delay.

(B) **Excusable Delay.** The Contract Time may be extended if DBE encounters "Excusable Delay," which is an unavoidable delay in completing the Work within the Contract Time due to causes completely beyond DBE's control, and which DBE could not have avoided or mitigated through reasonable care, planning, foresight, and diligence, provided that DBE is otherwise fully performing its obligations under the Contract Documents. Grounds for Excusable Delay may include fire, natural disasters including earthquake or unusually severe weather, acts of terror or vandalism, epidemic, unforeseeable adverse government actions, unforeseeable actions of third parties, encountering unforeseeable hazardous materials, unforeseeable site conditions, or suspension for convenience under Article 13. The Contract Time will not be extended based on circumstances which will not unavoidably delay completing the Work within the Contract Time based on critical path analysis.

(C) **Non-Excusable Delay.** Delay which DBE could have avoided or mitigated through reasonable care, planning, foresight and diligence is "Non-Excusable Delay." DBE is not entitled to an extension of Contract Time or any compensation for Non-Excusable Delay, or for Excusable Delay that is concurrent with Non-Excusable Delay. Non-Excusable Delay includes delay caused by:

- (1) weather conditions which are normal for the location of the Project, as determined by reliable records, including monthly rainfall averages, for the preceding ten years;
- (2) DBE's failure to order equipment and materials sufficiently in advance of the time needed for completion of the Work within the Contract Time;
- (3) DBE's failure to provide adequate notification to utility companies or agencies for connections or services necessary for completion of the Work within the Contract Time;
- (4) Foreseeable conditions which DBE could have ascertained from reasonably diligent inspection of the Project site or review of the Contract Documents or other information provided or available to DBE;
- (5) DBE's failure, refusal, or financial inability to perform the Work within the Contract Time, including insufficient funds to pay its Subcontractors or suppliers;
- (6) performance or non-performance by DBE's Subcontractors or suppliers;
- (7) the time required to respond to excessive RFIs (see Section 2.7(G));

(8) delayed submission of required submittals, or the time required for correction and resubmission of defective submittals;

(9) time required for repair of, re-testing, or re-inspection of defective Work;

(10) enforcement of Laws by City, or outside agencies with jurisdiction over the Work; or

(11) City's exercise or enforcement of any of its rights or DBE's duties pursuant to the Contract Documents, including correction of defective Work, extra inspections or testing due to non-compliance with Contract requirements, safety compliance, environmental compliance, or rejection and return of defective or deficient submittals.

(D) **Compensable Delay.** Pursuant to Public Contract Code § 7102, in addition to entitlement to an extension of Contract Time, DBE is entitled to compensation for costs incurred due to delay caused solely by City, when that delay is unreasonable under the circumstances involved and not within the contemplation of the parties ("Compensable Delay"). DBE is not entitled to an extension of Contract Time or recovery of costs for Compensable Delay that is concurrent with Non-Excusable Delay. Delay due to causes that are beyond the control of either City or DBE, including Weather Delay Days, discovery of Historic or Archeological Items pursuant to Section 7.17, or the actions or inactions of third parties or other agencies, is not Compensable Delay, and will only entitle DBE to an extension of time commensurate with the time lost due to such delay.

(E) **Concurrent Delay.** DBE is not entitled to an extension of Contract Time or recovery of costs for any Compensable Delay that is concurrent with Non-Excusable Delay.

(F) **Weather Delay.** A "Weather Delay Day" is a Working Day during which DBE and its forces, including Subcontractors, are unable to perform more than 40% of the critical path Work scheduled for that day due to adverse weather conditions which impair the ability to safely or effectively perform the scheduled critical path Work that day. Adverse weather conditions may include rain, saturated soil, and Project site cleanup required due to adverse weather. Determination of what constitutes critical path Work scheduled for that day will be based on the most current, City-approved schedule.

(1) Based on historic records for the Project location from the Western Regional Climate Center, DBE's schedule should assume the following number of normal Weather Delay Days and precipitation for each month:

Month	# Normal Weather Delay Days	Precipitation
January	6	2.86
February	6	2.66
March	6	2.29
April	3	1.20
May	1	0.44
June	0	0.10
July	0	0.02
August	0	0.07
September	1	0.19
October	2	0.76
November	4	1.51
December	5	2.43
Total	34	14.53

(2) DBE will be entitled to a non-compensable extension of the Contract Time for each Weather Delay Day in excess of the normal Weather Delay Days within a given month, as set forth in Section 5.3(F)(1) above, subject to the following limitations:

- a. DBE must fully comply with the applicable procedures in Article 5 and 6 of these General Conditions regarding requests to modify the Contract Time.
- b. Normal Weather Delay Days which do not occur during a given month do not carry over to another month.
- c. DBE will not be entitled to an extension of time for a Weather Delay Day to the extent DBE is responsible for concurrent delay on that day.
- d. DBE must take reasonable steps to mitigate the consequences of Weather Delay Days, including prudent workforce management and protecting the Work, Project Site, materials, and equipment.

(G) **Recoverable Costs.** DBE is not entitled to compensation for Excusable Delay unless it is Compensable Delay, as defined above. DBE is entitled to recover only the actual, direct, reasonable, and substantiated costs (“Recoverable Costs”) for each working day that the Compensable Delay prevents DBE from proceeding with more than 50% of the critical path Work scheduled for that day, based on the most recent progress schedule accepted by City. Recoverable Costs will not include home office overhead or lost profit.

(H) **Request for Extension of Contract Time or Recoverable Costs.** A request for an extension of Contract Time or any associated Recoverable Costs must be submitted in writing to City within ten calendar days of the date the delay is first encountered, even if the duration of the delay is not yet known at that time, or any entitlement to the Contract Time extension or to the Recoverable Costs will be deemed waived. In addition to complying with the requirements of this Article 5, the request must be submitted in compliance with the Change Order request procedures in Article 6 below. Strict compliance with these requirements is necessary to ensure that any delay or consequences of delay may be mitigated as soon as possible, and to facilitate cost-efficient administration of the Project and timely performance of the Work. Any request for an extension of Contract Time or Recoverable Costs that does not strictly comply with all of the requirements of Article 5 and Article 6 will be deemed waived.

(1) **Required Contents.** The request must include a detailed description of the cause(s) of the delay, and must also describe the measures that DBE has taken to mitigate the delay and/or its effects, including efforts to mitigate the cost impact of the delay, such as by workforce management or by a change in sequencing. If the delay is still ongoing at the time the request is submitted, the request should also include DBE’s plan for continued mitigation of the delay or its effects.

(2) **Delay Days and Costs.** The request must specify the number of days of Excusable Delay claimed, or provide a realistic estimate if the duration of the delay is not yet known. If DBE believes it is entitled to Recoverable Costs for Compensable Delay, the request must specify the amount and basis for the Recoverable Costs that are claimed, or provide a realistic estimate if the amount is not yet known. Any estimate of delay duration or cost must be updated in

writing and submitted with all required supporting documentation as soon as the actual time and cost is known. The maximum extension of Contract Time will be the number of calendar days, if any, by which an Excusable Delay or a Compensable Delay exceeds a concurrent Non-Excusable Delay. DBE is entitled to an extension of Contract Time, or compensation for Recoverable Costs, only if, and only to the extent that, such delay will unavoidably delay Final Completion.

(3) *Supporting Documentation.* The request must also include any and all supporting documentation necessary to evidence the delay and its actual impacts, including scheduling and cost impacts with a time impact analysis using critical path methodology and demonstrating the unavoidable delay to Final Completion. The time impact analysis must be submitted in a form or format acceptable to City.

(4) *Burden of Proof.* DBE has the burden of proving that: (a) the delay was an Excusable or Compensable Delay, as defined above; (b) DBE has made reasonable efforts to mitigate the delay and its schedule and cost impacts; (c) the delay will unavoidably result in delaying Final Completion; and (d) any Recoverable Costs claimed by DBE were actually incurred and were reasonable under the circumstances.

(5) *Legal Compliance.* Nothing in this provision is intended to require the waiver, alteration, or limitation of the applicability of Public Contract Code § 7102.

(6) *No Waiver.* Any grant of an extension of Contract Time, or compensation for Recoverable Costs due to Compensable Delay, will not operate as a waiver of City's right to assess liquidated damages for Non-Excusable Delay.

(7) *Dispute Resolution.* In the event of a dispute over entitlement to an extension of Contract Time or compensation for Recoverable Costs, DBE may not stop working pending resolution of the dispute, but must continue to comply with its duty to diligently prosecute the performance and timely completion of the Work. DBE's sole recourse for an unresolved dispute based on City's rejection of a Change Order request for an extension of Contract Time or compensation for Recoverable Costs is to comply with the dispute resolution provisions set forth in Article 12 below.

5.4 Liquidated Damages. It is expressly understood that if Final Completion is not achieved within the Contract Time, City will suffer damages from the delay that are difficult to determine and accurately specify. Pursuant to Public Contract Code § 7203, if DBE fails to achieve Final Completion within the Contract Time, City will charge DBE in the amounts specified in the Contract for each day Final Completion is delayed beyond the Contract Time, as liquidated damages and not as a penalty.

(A) **Liquidated Damages.** Liquidated damages will not be assessed for any Excusable Delay, as set forth above.

(B) **Milestones/Deadlines.** Liquidated damages will also be separately assessed for failure to meet milestones or deadlines specified elsewhere in the Contract Documents.

(C) **Setoff.** City is entitled to deduct the amount of liquidated damages assessed against any payments otherwise due to DBE, including progress payments, Final Payment, or unreleased retention. If there are insufficient Contract funds remaining to cover the full amount of liquidated damages assessed, City is entitled to recover the balance from DBE or its performance bond surety.

(D) **Occupancy or Use.** Occupancy or use of the Project in whole or in part prior to Final Completion does not constitute City's acceptance of Project and will not operate as a waiver of City's right to assess liquidated damages for DBE's Non-Excusable Delay in achieving Final Completion.

(E) **No Limitation on Other Remedies.** City's right to liquidated damages under this Section applies only to damages arising from DBE's Non-Excusable Delay or failure to complete the Work within the Contract Time. City retains its right to pursue all other remedies under the Contract for other types of damage, including damage to property or persons, costs or diminution in value from defective materials or workmanship, costs to repair or complete the Work, or other liability caused by DBE.

Article 6 - Contract Modification

6.1 Contract Modification. Subject to the limited exception set forth in subsection (D) below, any change in the Work or the Contract Documents, including the Contract Price or Contract Time, will not be a valid and binding change to the Contract unless it is formalized in a Change Order, including a "no-cost" Change Order or a unilateral Change Order. Change in the Work pursuant to this Article 6 will not operate to release, limit, or abridge DBE's warranty obligations pursuant to Article 11 or any obligations of Contractor's bond sureties.

(A) **City-Directed Changes.** City may direct changes in the scope or sequence of Work or the requirements of the Contract Documents, without invalidating the Contract. Such changes may include Extra Work as set forth in subsection (C) below, deletion or modification of portions of the Work, or other modifications determined by City, acting in its sole discretion, to be in City's best interest. Pursuant to section 3.23.170 of the Cupertino Municipal Code, City reserves the right to delete up to 25% of the Work. Any change in the Work, whether directed by City or pursuant to DBE's request for a Change Order under Section 6.2 below, will not be a valid and binding change to the Contract unless it is formalized in a Change Order, which may include commensurate changes in the Contract Price or Contract Time as applicable. DBE must promptly comply with City-directed changes in the Work in accordance with the original Contract Documents, even if DBE and City have not yet reached agreement as to adjustments to the Contract Price or Contract Time for the change in the Work or for the Extra Work. DBE is not entitled to extra compensation for cost savings resulting from "value engineering" pursuant to Public Contract Code section 7101 except to the extent authorized in advance by City in writing, and subject to any applicable procedural requirements for submitting a proposal for value engineering cost savings.

(B) **Disputes.** In the event of a dispute over entitlement to or the amount of a change in Contract Time or a change in Contract Price related to a City-directed change in the Work, DBE must perform the Work as directed and may not delay its Work or cease Work pending resolution of the dispute, but must continue to comply with its duty to diligently prosecute the performance and timely completion of the Work, including the Work in dispute. Likewise, in the event that City and DBE dispute whether a portion or portions of the Work are already required by the Contract Documents or constitute Extra Work, or otherwise dispute the interpretation of any portion(s) of the Contract Documents, DBE must perform the Work as directed and may not delay its Work or cease Work pending resolution of the dispute, but must continue to comply with its duty to diligently prosecute the performance and timely completion of the Work, including the Work in dispute, as directed by City. If DBE refuses to perform the Work in dispute, City may, acting in its sole discretion, elect to delete the Work from the Contract and reduce the Contract Price accordingly, and self-perform the Work or direct that the Work be

performed by others. Alternatively, City may elect to terminate the Contract for convenience or for cause. DBE's sole recourse for an unresolved dispute related to changes in the Work or performance of any Extra Work is to comply with the dispute resolution provisions set forth in Article 12, below.

(C) **Extra Work.** City may direct DBE to perform Extra Work related to the Project. DBE must promptly perform any Extra Work as directed or authorized by City in accordance with the original Contract Documents, even if DBE and City have not yet reached agreement on adjustments to the Contract Price or Contract Time for such Extra Work. DBE must maintain detailed daily records that itemize the cost of each element of Extra Work, and sufficiently distinguish the direct cost of the Extra Work from the cost of other Work performed. For each day that DBE performs Extra Work, or Work that DBE contends is Extra Work, DBE must submit no later than the following Working Day, a daily report of the Extra Work performed that day and the related costs, together with copies of certified payroll, invoices, and other documentation substantiating the costs ("Extra Work Report"). The Engineer will make any adjustments to DBE's Extra Work Report(s) based on the Engineer's records of the Work. When an Extra Work Report(s) is agreed on and signed by both City and DBE, the Extra Work Report(s) will become the basis for payment under a duly authorized and signed Change Order. Failure to submit the required documentation by close of business on the next Working Day is deemed a full and complete waiver for any change in the Contract Price or Contract Time for any Extra Work performed that day.

(D) **Minor Changes and RFIs.** Minor field changes, including RFI replies from City, that do not affect the Contract Price or Contract Time and that are approved by the Engineer acting within his or her scope of authority, do not require a Change Order. By executing an RFI reply from City, DBE agrees that it will perform the Work as clarified therein, with no change to the Contract Price or Contract Time.

(E) **Remedy for Non-Compliance.** DBE's failure to promptly comply with a City-directed change is deemed a material breach of the Contract, and in addition to all other remedies available to it, City may, at its sole discretion, hire another contractor or use its own forces to complete the disputed Work at DBE's sole expense, and may deduct the cost from the Contract Price.

6.2 DBE Change Order Requests. DBE must submit a request or proposal for a change in the approved Construction Documents or a change in the Contract Price or Contract Time, based on unforeseen circumstances or change in scope, as a written Change Order request or proposal.

(A) **Time for Submission.** Any request for a change in the Contract Price or the Contract Time must be submitted in writing to the Project Manager within ten calendar days of the date that DBE first encounters the circumstances, information or conditions giving rise to the Change Order request, even if the total amount of the requested change in the Contract Price or impact on the Contract Time is not yet known at that time. If City requests that DBE propose the terms of a Change Order, unless otherwise specified in City's request, DBE must provide the Project Manager with a written proposal for the change in the Contract Price or Contract Time within five working days of receiving City's request, in a form satisfactory to the Engineer.

(B) **Required Contents.** Any Change Order request or proposal submitted by DBE must include a complete breakdown of actual or estimated costs and credits, and must itemize labor, materials, equipment, taxes, insurance, subcontract amounts, and, if applicable, Extra Work Reports. Any estimated cost must be updated in writing as soon as the actual amount is known.

(C) **Required Documentation.** All claimed costs must be fully documented, and any related request for an extension of time or delay-related costs must be included at that time and in compliance with the requirements of Article 5 of the General Conditions.

(D) **Required Form.** DBE must use City's form(s) for submitting all Change Order requests or proposals, unless otherwise specified by City.

(E) **Certification.** All Change Order requests must be signed by DBE and must include the following certification:

"The undersigned DBE certifies under penalty of perjury that its statements and representations in this Change Order request are true and correct. DBE warrants that this Change Order request is comprehensive and complete, and agrees that any costs, expenses, or time extension request not included herein will be deemed waived. DBE understands that submission of claims which have no basis in fact or which DBE knows to be false may violate the False Claims Act, as set forth in Government Code § 12650 et seq."

6.3 Adjustments to Contract Price. The amount of any increase or decrease in the Contract Price will be determined based on one of the following methods, listed below in the order listed with unit pricing taking precedence over the other methods. Markup applies only to City-authorized time and material Work, and does not apply to any other payments to DBE.

(A) **Unit Pricing.** Amounts previously provided by DBE in the form of unit prices, either in the Proposal or in a schedule of values, will apply if such unit pricing has previously been provided for the affected Work and accepted by City. No additional markup for overhead or profit will be added to the calculation.

(B) **Lump Sum.** A mutually agreed upon lump sum for the affected Work with no additional markup for overhead, profit, or other indirect costs.

(C) **Time and Materials.** On a time and materials basis, if and only to the extent compensation on a time and materials basis is expressly authorized by City in advance of DBE's performance of the Work and subject to a not-to-exceed limit. Time and materials compensation for increased costs or Extra Work (but not decreased costs or deleted Work), will include allowed markup for overhead, profit, and other indirect costs, and which may include a not-to-exceed limit, calculated as the total of the following sums:

- (1) All direct labor costs provided by DBE or its general contractor, excluding superintendence, plus 15% for overhead and profit;
- (2) All direct material costs provided by DBE or its general contractor, including sales tax, plus 15% for overhead and profit;
- (3) All direct plant and equipment rental costs provided by DBE or its general contractor, plus 15% for overhead and profit;
- (4) All direct subcontract costs plus 10% markup for overhead and profit for Work performed by Subcontractors; and
- (5) Increased bond or insurance premium costs computed at 1.5% of total of the previous four sums.

6.4 Unilateral Change Order. If the parties dispute the terms of a proposed Change Order, including disputes over the amount of compensation or extension of time that DBE has

requested, the value of deleted or changed Work, or quantities used, City may elect to issue a unilateral Change Order, directing performance of the Work, and authorizing a change in the Contract Price or Contract Time for the amount of compensation or added time that the City believes is merited. DBE's sole recourse to dispute the terms of a unilateral Change Order is to submit a timely Claim pursuant to Article 12, below.

- 6.5 Non-Compliance Deemed Waiver.** DBE waives its entitlement to any increase in the Contract Price or Contract Time if DBE fails to fully comply with the provisions of this Article. DBE will not be paid for unauthorized extra work.

Article 7 - General Construction Provisions

7.1 Permits, Fees, Business License, and Taxes.

(A) **Permits, Fees, and City Business License.** DBE must obtain and pay for all permits, fees, or licenses required to perform the Work, unless otherwise indicated in the Contract Documents. DBE must cooperate with and provide notifications to government agencies with jurisdiction over the Project, as may be required. DBE must provide City with copies of all records of permits and permit applications, payments of required fees, and any licenses, required for the Work. DBE, members of the DB Team, and Subcontractor(s) must obtain a City Business License before beginning Work on the Project, unless its sole business contract within the City is the sale of goods or services to the City itself.

(B) **Taxes.** DBE must pay for all taxes on labor, material and equipment, except Federal Excise Tax to the extent that City is exempt from Federal Excise Tax.

- 7.2 Temporary Facilities.** DBE must provide, at DBE's sole expense, any and all temporary facilities, including onsite office, sanitary facilities, storage, scaffolds, barricades, walkways, and any other temporary structure required to safely perform the Work along with any utility services incidental thereto. The location of all temporary facilities must be approved by the City prior to installation. Temporary facilities must be safe and adequate for the intended use and installed and maintained in accordance with Laws and the Contract Documents. DBE must fence and screen the Project site and, if applicable, any separate Worksites, including the staging area, and its operation must minimize inconvenience to neighboring properties. Additional provisions pertaining to temporary facilities may be included in the Specifications or Special Conditions.

(A) **Utilities.** DBE must install and maintain the power, water, sewer and all other utilities required for the Project site, including the piping, wiring, internet and wifi connection, and any related equipment necessary to maintain the temporary facilities.

(B) **Removal and Repair.** DBE must promptly remove all such temporary facilities when they are no longer needed or upon completion of the Work, whichever comes first. DBE must promptly repair any damage to City's property or to other property caused by the installation, use, or removal of the temporary facilities, and must promptly restore the property to its original or intended condition.

(C) **Additional Requirements.** Additional provisions pertaining to temporary facilities may be included in the Bridging Documents or Special Conditions

- 7.3 Noninterference and Site-Management.** DBE must avoid interfering with City's use of its property at or adjacent to the Project site, including use of roadways, entrances, parking areas, walkways, and structures. DBE must also minimize disruption of access to private property in the Project vicinity. DBE must coordinate with affected property

owners, tenants, and businesses, and maintain some vehicle and pedestrian access to their residences or properties at all times. Temporary access ramps, fencing or other measures must be provided as needed. Before blocking access to a private driveway or parking lot, DBE must provide effective notice to the affected parties at least 2 working days in advance of the pending closure and allow them to remove vehicles. Private driveways, residences and parking lots must have access to a roadway during non-Work hours.

(A) **Offsite Acquisition.** Unless otherwise provided by City, DBE must acquire, use and dispose of, at its sole expense, any additional Worksites, licenses, easements, and temporary facilities necessary to access and perform the Work.

(B) **Offsite Staging Area and Field Office.** If additional space beyond the Project site is needed, such as for the staging area or the field office, DBE may need to make arrangements with the nearby property owner(s) to secure the space. Before using or occupying any property owned by a third party, DBE must provide City with a copy of the necessary license agreement, easement, or other written authorization from the property owner, together with a written release from the property owner holding City harmless from any related liability, in a form acceptable to the City Attorney.

(C) **Traffic Management.** DBE must provide traffic management and traffic controls as specified in the Contract Documents, as required by Laws, and as otherwise required to ensure the public and worker safety, and to avoid interference with public or private operations or the normal flow of vehicular, bicycle, or pedestrian traffic. Any traffic management plans required to be submitted, must be prepared by a California License Professional including Registration Stamp and reviewed and accepted by the City prior to installation of any traffic management controls.

7.4 Signs. No signs may be displayed on or about City's property, except signage which is required by Laws or by the Contract Documents, without City's prior written approval as to size, design, and location. DBE must furnish and install all signs at DBE's sole expense, including signs required by Laws or the Contract Documents.

7.5 Project Site and Nearby Property Protections.

(A) **General.** DBE is responsible at all times, on a 24-hour basis and at its sole cost, for protecting the Work, the Project site, and the materials and equipment to be incorporated into the Work, until the notice of completion has been recorded. Except as specifically authorized by City, DBE must confine its operations to the area of the Project site indicated in the Bridging Documents. DBE is liable for any damage caused by DBE or its Subcontractors to the Work, City's property, the property of adjacent or nearby property owners, and the work or personal property of other contractors working for City. In addition, DBE is responsible for damage caused by its failure to adequately secure the Work or any Worksite.

(1) Subject to City's approval, DBE will provide and install safeguards to protect the Work, any Worksite, including the Project site. City's real or personal property, and the real or personal property of adjacent or nearby property owners, including plant and tree protections.

(2) Cupertino Sanitary District and the City of Sunnyvale own and operate wastewater systems within City and they may not be interrupted. If the Work disrupts existing sewer facilities, DBE must immediately notify City to determine who owns the system and establish a plan, subject to the systems owner's approval, to convey the sewage in closed conduits back into the sanitary sewer

system. Sewage must not be permitted to flow in trenches or be covered by backfill.

(3) DBE must remove with due care, and store at City's request, any objects or material from the Project site that City will salvage or reuse at another location.

(4) If directed by Engineer, DBE must promptly repair or replace any property damage, as specified by the Engineer. However, acting in its sole discretion, City may elect to have the property damage remedied otherwise, and may deduct the cost to repair or replace the damaged property from payment otherwise due to DBE.

(5) DBE will not permit any structure or infrastructure to be loaded in a manner that will damage or endanger the integrity of the structure or infrastructure.

(B) **Securing Project Site.** After completion of Work each day, DBE must secure the Project site and, to the extent feasible, make the area reasonably accessible to the public unless City approves otherwise. All excess materials and equipment not protected by approved traffic control devices must be relocated to the staging area or demobilized. Trench spoils must be hauled off the Project site daily and open excavations must be protected with steel plates. DBE and Subcontractor personnel may not occupy or use the Project site for any purpose during non-Work hours, except as may be provided in the Contract Documents or pursuant to prior written authorization from City.

(C) **Unforeseen Conditions.** If DBE encounters facilities, utilities, or other unknown conditions not shown on or reasonably inferable from the Bridging Documents, record drawings, or other documents or information made available to DBE, or which are not apparent from inspection of the Project site, DBE must immediately notify the City and promptly submit a Request for Information to obtain further direction from the Engineer. DBE must avoid taking any action which could cause damage to the facilities or utilities pending further direction from the Engineer. The Engineer's written response will be final and binding on DBE. If the Engineer's subsequent direction to DBE affects DBE's cost or time to perform the Work, DBE may submit a Change Order request as set forth in Article 6 above.

(D) **Support; Adjacent Properties.** DBE must provide, install, and maintain all shoring, bracing, and underpinning necessary to provide support to City's property and adjacent properties and improvements thereon. DBE must provide notifications to adjacent property owners as may be required by Laws. See also, Section 7.14, Trenching of Five Feet or More.

(E) **Notification of Property Damage.** DBE must immediately notify the City of damage to any real or personal property resulting from Work on the Project. DBE must immediately provide a written report to City of any such property damage within 24 hours of the occurrence. The written report must include: (1) the location and nature of the damage, and the owner of the property, if known; (2) the name and address of each employee of DBE or any Subcontractor involved in the damage; (3) a detailed description of the incident, including precise location, time, and names and contact information for known witnesses; and (4) a police or first responder report, if applicable. If DBE is required to file an accident report with another government agency, DBE will provide a copy of the report to City.

7.6 Materials and Equipment.

(A) **General.** Unless otherwise specified, all materials and equipment required for the Work must be new, free from defects, and of the best grade for the intended purpose,

and furnished in sufficient quantities to ensure the proper and expeditious performance of the Work. DBE must employ measures to preserve the specified quality and fitness of the materials and equipment. Unless otherwise specified, all materials and equipment required for the Work are deemed to include all components required for complete installation and intended operation, and must be installed in accordance with the manufacturer's recommendations or instructions. DBE is responsible for all shipping, handling, and storage costs associated with the materials and equipment required for the Work, and is responsible for providing security and protecting the Work and all of the required materials, supplies, tools and equipment at DBE's sole cost until City has formally accepted the Project as set forth in Section 11.1, Final Completion. DBE will not assign, sell, mortgage, or hypothecate any materials or equipment for the Project, or remove any materials or equipment that have been installed or delivered.

(B) **City-Provided.** If the Work includes installation of materials or equipment to be provided by City, DBE is solely responsible for the proper examination, handling, storage, and installation of such items in accordance with the Contract Documents. DBE must promptly notify City of any defects discovered in City-provided materials or equipment, sufficiently in advance of scheduled use or installation to afford adequate time to procure replacement materials or equipment as needed. DBE is solely responsible for any loss of or damage to such items which occurs while the items are in DBE's custody and control, the cost of which may be offset from the Contract Price and deducted from any payment(s) due to DBE.

(C) **Existing City Equipment.** DBE will carefully remove all existing equipment from the Worksite. If the City specifies or indicates that equipment is to be salvaged and reused or to remain the property of City then the DBE will reuse or return the equipment to the City. DBE will store and protect salvaged equipment specified to be reused in the Work. DBE will deliver to the City in good condition the equipment that is to remain City property but not be reused in the Work.

(1) If an item specified to be salvaged is damaged during its removal, storage, or handling through carelessness or improper procedures, then DBE will replace that equipment in kind or with a new item. For those items specified to be salvaged DBE may choose to instead furnish and install new equipment, in which case the original, removed items will become DBE's property. Existing materials and equipment removed by DBE will only be reused in the Work if so specified or indicated by the City.

(D) **Intellectual Property Rights.** DBE must, at its sole expense, obtain any authorization required for use of patented or copyright protected materials, equipment, devices or processes that are incorporated into the Work. DBE's indemnity obligation in Article 4 applies to any claimed violation of intellectual property rights in violation of this provision.

(E) **Certificate of Compliance.** When a Certificate of Compliance is specified, or for any material or item ("material") produced or assembled outside of the United States, DBE must submit a Certificate of Compliance before incorporating that material into the Project. A Certificate of Compliance must be submitted for each lot of material delivered to the Project site, and in a form acceptable to the Engineer, identifying the material, its source, and the lot. Each Certificate of Compliance must be signed by the material producer stating that the material fully complies with the applicable requirements of the Specifications. Submission of a Certificate of Compliance will not limit DBE's continuing obligation to use only materials that conform with the requirements of the Contract Documents. Any materials furnished pursuant to a Certificate of Compliance may be inspected or tested at any time by City, subject to the inspection and testing provisions of

Article 7, and defective or non-conforming material may be rejected at any time, even if already installed.

(F) **Site Materials.** Except as otherwise specified, City retains full ownership of and all rights to use any water, soil, stone, gravel, sand, minerals or other materials (“Site Materials”) on City property, including the Project site, and including any site materials that have been extracted, excavated, or otherwise affected or made accessible by performance of the Work. However, City, acting in its sole discretion, may provide written authorization in the Special Conditions or in the Specifications or in a Change Order for DBE to make use of or incorporate specified Site Materials in the Work.

(G) **Mined Materials.** Pursuant to the Surface Mining and Reclamation Act of 1975, Public Resources Code § 2710 et seq., any purchase of mined materials, such as construction aggregate, sand, gravel, crushed stone, road base, fill materials, and any other mineral materials must originate from a surface mining operation included on the AB 3098 List, which is available online at:
<ftp://ftp.consrv.ca.gov/pub/omr/AB3098%20List/AB3908List.pdf>.

7.7 Inspection and Testing.

(A) **General.** All materials, equipment, and workmanship used in the Work are subject to inspection and testing by City at all times and locations during construction and/or fabrication and at any Worksite, including at shops and yards as well as at the Project site, or at the plant of a manufacturer of materials or items to be incorporated into the Work. All manufacturers’ application or installation instructions must be provided to the Inspector at least ten days prior to the first such application or installation. DBE must, at all times, make the Work available for testing or inspection. Neither City’s inspection or testing of Work, nor its failure to do so, operate to waive or limit DBE’s duty to complete the Work in accordance with the Contract Documents.

(B) **Scheduling and Notification.** DBE must cooperate with City in coordinating the inspections and testing. DBE must submit samples of materials, at DBE’s expense, and schedule all tests required by the Contract Documents in time to avoid any delay to the progress of the Work. DBE must notify the Engineer in writing no later than two Working Days before any inspection or testing is being requested, and must provide timely notice to all necessary parties as specified in the Contract Documents. If DBE schedules an inspection or test beyond regular Work hours, or on a Saturday, Sunday, or recognized City holiday, DBE must seek, in writing, Engineer’s approval at least two Working Days in advance. If approved, DBE must reimburse City for the cost of the overtime inspection or testing. Such costs, including the City’s hourly costs for required personnel and Inspector, may be deducted from payments otherwise due to DBE.

(C) **Responsibility for Costs.** City will bear the initial cost of inspection and testing to be performed by independent inspections and/or testing consultants retained by City, subject to the following exceptions:

(1) DBE will be responsible for the costs of any subsequent inspections and/or tests which are required to substantiate compliance with the Contract Documents, and any associated remediation costs.

(2) DBE will be responsible for inspection and testing costs, at the rate charged by the consultant retained by the City to provide inspection and testing services, and for inspection and testing time lost because the Work is not ready or DBE fails to appear for a scheduled inspection.

(3) If any portion of the Work that is subject to inspection or testing is covered or concealed by DBE prior to the inspection or testing, DBE will bear the cost of making that portion of the Work available for the inspection or testing required by the Contract Documents, and any associated repair or remediation costs.

(4) DBE is responsible for properly shoring all compaction test sites deeper than five feet below grade, as required under Section 7.14 below.

(5) Any Work or material that is defective or fails to comply with the requirements of the Contract Documents must be promptly repaired, removed, replaced, or corrected by DBE, at DBE's sole expense, even if that Work or material was previously inspected or included in a progress payment.

(D) **DBE's Obligations.** All Work and materials must conform to the lines, grades, typical cross sections, dimensions, material requirements, and tolerances shown or described by the Construction Documents. City, acting in its sole discretion, will determine whether Work or materials conform to the Construction Documents, including allowable deviations. City's determination as to conformity or allowable deviations is final. DBE is solely responsible for any delay occasioned by remediation of defective or noncompliant Work or material. Inspection of the Work does not in any way relieve DBE of its obligations to perform the Work as specified in the Construction Documents. Any Work done without the required inspection(s) will also be subject to rejection by City. Any Work that fails to comply with the requirements of the Contract Documents must be promptly repaired, replaced, or corrected by DBE, at DBE's sole expense, even if that Work was previously inspected or included in a progress payment. DBE is solely responsible for any delay occasioned by remediation of noncompliant Work. Inspection of the Work does not in any way relieve DBE of its obligations to perform the Work as specified.

(E) **Distant Locations.** If required off-site testing or inspection must be conducted at a location more than 100 miles from the Project site, DBE is solely responsible for the additional travel costs required for testing and/or inspection at such locations.

(F) **Plant Inspection.** If specified in the Contract Documents, or upon written request by City, DBE must use its best efforts to facilitate and arrange for City's inspection, sampling or testing of materials or items required for the Work at the plant or facility from which the materials or items are to be obtained. DBE's best efforts must include contacting the producer or manufacturer on a timely basis to schedule inspection by City's selected representative, including appropriate access and any safety equipment, all at no cost to City. The inspection must be scheduled sufficiently in advance of the planned shipping or production date to allow for alternative arrangements if the City determined that the materials or items do not meet the requirements of the Specifications. Nothing in this provision obligates City to inspect materials or items at the source plant or facility.

(G) **Final Inspection.** The provisions of this Section 7.7 also apply to final inspection under Article 11, Completion and Warranty Provisions.

7.8 Project Site Conditions and Maintenance. DBE must at all times, on a 24-hour basis and at its sole cost, maintain the Project site and staging and storage areas in clean, neat and sanitary condition and in compliance with all Laws pertaining to safety, air quality and dust control. Adequate toilets must be provided, and properly maintained and serviced for all workers on the Project site, located in a suitably secluded area, subject to City's prior approval. DBE must also, on a daily basis and at its sole cost, remove and properly dispose of the debris and waste materials from the Project site.

(A) **Protection of Existing Property, Structures, and Utilities.** If the Specifications indicate existing above-grade and below-grade structures, drainage lines, storm drains, sewers, water, gas, electrical, phone and data cable, and other similar items or utilities known to the City, then DBE will locate these known existing installations before proceeding with trenching or other operations which may cause damage, will maintain them in service where appropriate, and will repair any damage caused to them by the Work, at no increase in the Contract Price.

(1) DBE may temporarily mark or paint the ground, pavement, sidewalk, or any other improvements, but must not do so in a public right-of-way or on the Project site more than 30 days prior to the commencement of excavation work performed in connection with an installation. Any mark or paint must be removed from all surfaces, including any decorative work, within 30 days of the completion of the excavation work. DBE is responsible for any expense associated with damages caused by the DBE's mark or paint, including the removal thereof.

(2) DBE will record the location and existence of pavement markers and striping prior to construction, and will provide such records to the Engineer. DBE will replace in kind any permanent paving marker or striping that it removes or damages, or as marked in the Specifications, at its expense.

(B) **Air Emissions Control.** DBE must not discharge smoke or other air contaminants into the atmosphere in violation of any Laws.

(C) **Dust and Debris.** DBE must minimize and confine dust and debris resulting from the Work. DBE must abate dust nuisance by cleaning, sweeping, and immediately sprinkling with water excavated areas of dirt or other materials prone to cause dust, and within one hour after the Engineer notifies DBE that an airborne nuisance exists. The Engineer may direct that DBE provide an approved water-spraying truck for this purpose. If water is used for dust control, DBE will only use the minimum necessary. DBE must take all necessary steps to keep waste water out of streets, gutters, or storm drains. See Section 7.19, Storm Water Pollution Control. If City determines that the dust control is not adequate, City may have the work done by others and deduct the cost from the Contract Price. DBE will immediately remove any excess excavated material from the Project site and any dirt deposited on public streets.

(D) **Clean up.** Before discontinuing Work in an area, DBE must clean the area and remove all debris and waste along with the construction equipment, tools, machinery, waste and surplus materials.

(1) Except as otherwise specified, all excess Project materials, and the materials removed from existing improvements on the Project site with no salvage value or intended reuse by City, will be DBE's property.

(2) Hauling trucks and other vehicles leaving the Project site must be cleaned of exterior mud or dirt before traveling on City streets. Materials and loose debris must be delivered and loaded to prevent dropping materials or debris. DBE must immediately remove spillage from hauling on any publicly traveled way. Streets affected by Work on the Project must be kept clean by street sweeping.

(E) **Disposal.** DBE must dispose of all Project debris and waste materials in a safe and legal manner. DBE may not burn or bury waste materials on the Project site. DBE will not allow any dirt, refuse, excavated material, surplus concrete or mortar, or any associated washings, to be disposed of onto streets, into manholes or into the storm drain system.

(F) **Completion.** At the completion of the Work, DBE must remove from the Project site all of its equipment, tools, surplus materials, waste materials and debris, presenting a clean and neat appearance. Before demobilizing from the Project site, DBE must ensure that all surfaces are cleaned, sealed, waxed, or finished as applicable, and that all marks, stains, paint splatters, and the like have been properly removed from the completed Work and the surrounding areas. DBE must ensure that all parts of the construction are properly joined with the previously existing and adjacent improvements and conditions. DBE must provide all cutting, fitting and patching needed to accomplish that requirement. DBE must also repair or replace all existing improvements that are damaged or removed during the Work, both on and off the Project site, including curbs, sidewalks, driveways, fences, signs, utilities, street surfaces and structures. Repairs and replacements must be at least equal to the previously existing improvements, and the condition, finish and dimensions must match the previously existing improvements. DBE must restore to original condition all property or items that are not designated for alteration under the Contract Documents and leave each Worksite clean and ready for occupancy or use by City.

(G) **Non-Compliance.** If DBE fails to comply with its maintenance and cleanup obligations or any City clean up order, City may, acting in its sole discretion, elect to suspend the Work until the condition(s) is corrected with no increase in the Contract Time or Contract Price, or undertake appropriate cleanup measures without further notice and the cost will be deducted from any amounts due or to become due to DBE.

7.9 Instructions and Manuals. DBE must provide to City two bound copies and an electronic PDF copy of all instructions and manuals required by the Contract Documents, unless otherwise specified. These must be complete as to drawings, details, parts lists, performance data, and other information that may be required for City to easily maintain and service the materials and equipment installed for this Project.

(A) **Submittal Requirements.** All manufacturers' application or installation instructions must be provided to City at least ten days prior to the first such application. The instructions and manuals, along with any required guarantees, must be delivered to City for review.

(B) **Training.** DBE or its Subcontractors must train City's personnel in the operation and maintenance of any complex equipment or systems as a condition precedent to Final Completion, if required in the Contract Documents.

7.10 As-built Drawings. DBE and its Subcontractors must maintain on the Worksite a separate complete set of the final City-approved Construction Documents, including drawings to be used solely for the purpose of recording changes made in any portion of the Work in order to create accurate record drawings at the end of the Project.

(A) **Duty to Update.** The as-built drawings must be updated as changes occur, on a daily basis if necessary. Progress payments may be reduced, in whole or in part, until the as-built drawings are brought up to date to the satisfaction of City, and the City may choose to withhold the estimated cost for City to have the as-built drawings prepared from payments otherwise due to DBE. Actual locations to scale must be identified on the as-built drawings for all runs of mechanical and electrical work, including all site utilities installed underground, in walls, floors, or otherwise concealed. Deviations from the original drawings must be shown in detail. The exact location of all main runs, whether piping, conduit, ductwork or drain lines, must be shown by dimension and elevation. The location of all buried pipelines, appurtenances, or other improvements must be represented by coordinates and by the horizontal distance from visible above-ground improvements.

(B) **Final Completion.** DBE must verify that all changes in the Work are depicted in the as-built drawings and must deliver the complete set of as-built drawings to the Engineer for review and acceptance as a condition precedent to Final Completion.

7.11 Existing Utilities.

(A) **General.** The Work may be performed in developed, urban areas with existing utilities, both above and below ground, including utilities identified in the Contract Documents or in other informational documents or records. DBE must take due care to locate identified or reasonably identifiable utilities before proceeding with trenching, excavation, or any other activity that could damage or disrupt existing utilities. This may include excavation with small equipment, potholing, or hand excavation, and, if practical, using white paint or other suitable markings to delineate the area to be excavated. Except as otherwise provided herein, DBE will be responsible for costs resulting from damage to identified or reasonably identifiable utilities due to DBE's negligence or failure to comply with the Contract Documents, including the requirements in this Article 7.

(B) **Unidentified Utilities.** Pursuant to Government Code § 4215, if, during the performance of the Work, DBE discovers utility facilities not identified by City in the Contract Documents, DBE must immediately provide written notice to City and the utility. City assumes responsibility for the timely removal, relocation, or protection of existing main or trunk line utility facilities located on the Project site if those utilities are not identified in the Contract Documents. DBE will be compensated in accordance with the provisions of the Contract Documents for the costs of locating, repairing damage not due to DBE's failure to exercise reasonable care, and removing or relocating such utility facilities not indicated in the Contract Documents with reasonable accuracy, and for equipment on the Project necessarily idled during such work. DBE will not be assessed liquidated damages for delay in completion of the Work, to the extent such delay was caused by City's failure to provide for removal or relocation of the utility facilities.

7.12 **Notice of Excavation.** DBE must comply with all applicable requirements in Government Code § 4216.2 through 4216.5, which are incorporated by reference herein. Government Code § 4216.2 requires that, except in an emergency, DBE must contact the appropriate regional notification center, or Underground Services Alert, at least two working days but not more than 14 calendar days before starting any excavation if the excavation will be conducted in an area that is known, or reasonably should be known, to contain subsurface installations. DBE may not begin excavation until it has obtained and submitted to Engineer an inquiry identification number from Underground Services Alert.

7.13 **Trenching and Excavations of Four Feet or More.** As required by Public Contract Code § 7104, if the Work includes digging trenches or other excavations that extend deeper than four feet below the surface, the following provisions in this Section apply to the Work and the Project.

(A) **Duty to Notify.** DBE must promptly, and before the following conditions are disturbed, provide written notice to City if DBE finds any of the following conditions:

- (1) Material that DBE believes may be a hazardous waste, as defined in § 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing Laws;
- (2) Subsurface or latent physical conditions at the Project site differing from those indicated by information about the Project site made available to DBE prior to the deadline for submitting Proposals; or

(3) Unknown physical conditions at the Project site of any unusual nature, materially different from those ordinarily encountered and generally recognized as inherent in work of the character required by the Contract Documents.

(B) **City Investigation.** City will promptly investigate the conditions and if City finds that the conditions do materially differ or do involve hazardous waste, and cause a decrease or increase in DBE's cost of, or the time required for, performance of any part of the Work, City will issue a Change Order.

(C) **Disputes.** In the event that a dispute arises between City and DBE regarding any of the conditions specified in subsection (A) above, DBE will not be excused from any scheduled completion date provided for in the Contract Documents, but must proceed with all Work to be performed under the Contract. DBE will retain any and all rights provided either by the Contract or by Laws which pertain to the resolution of disputes between DBE and City.

7.14 Trenching of Five Feet or More. As required by Labor Code § 6705, if the Contract Price exceeds \$25,000 and the Work includes the excavation of any trench or trenches of five feet or more in depth, a detailed plan must be submitted to City for acceptance in advance of the excavation. The detailed plan must show the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation. If the plan varies from the shoring system standards, it must be prepared by a California registered civil or structural engineer. Use of a shoring, sloping, or protective system less effective than that required by the Construction Safety Orders is prohibited.

7.15 New Utility Connections. City will pay connection charges and meter costs for new permanent utilities required by the Contract Documents, if any. DBE must notify City sufficiently in advance of the time needed to request service from each utility provider so that connections and services are initiated in accordance with the Project schedule.

7.16 Lines and Grades. DBE is required to use any benchmark provided by the Engineer. Unless otherwise specified in the Contract Documents, DBE must provide all lines and grades required to execute the Work. DBE must also provide, preserve, and replace if necessary, all construction stakes required for the Project. All stakes or marks must be set by a California licensed surveyor or a California registered civil engineer. DBE must notify the Engineer of any discrepancies found between DBE's staking and grading and information provided by the Contract Documents. Upon completion, all Work must conform to the lines, elevations, and grades shown in the Plans, included any changes directed by a Change Order.

7.17 Historic or Archeological Items.

(A) **DBE's Obligations.** DBE must ensure that all persons performing Work at the Project site are required to immediately notify the Inspector or Project Manager, upon discovery of any potential historic or archeological items, including historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints or other archeological, paleontological or historical feature on the Project site (collectively, "Historic or Archeological Items").

(B) **Discovery; Cessation of Work.** Upon discovery of any potential Historic or Archeological Items, Work must be stopped within an 85-foot radius of the find and may not resume until authorized in writing by City. If required by City, DBE must assist in protecting or recovering the Historic or Archeological Items, with any such assistance to be compensated as extra work on a time and materials basis under Article 6, Contract Modification. At City's discretion, suspension of Work required due to discovery of

Historic or Archeological Items will be treated as Excusable Delay pursuant to Article 5, or as a suspension for convenience under Article 13.

7.18 Recycling and Waste Disposal.

(A) **Approved Recycling Facility.** DBE must dispose of all recyclable materials at a recycling facility approved by the Engineer.

(B) **Inert Solids and Plant Materials.** DBE must remove all asphalt concrete, Portland cement concrete, aggregate base material, inert solids and any plant material from the Project site and deposit at an approved recycling facility. DBE must conform the above material to an acceptable size and composition for recycling.

(C) **Recyclable Materials.** DBE must recycle at least 65% of all materials at an approved recycling facility.

(D) **Waste Management Plan and Disposal Report.** If the California Green Building Standards Code applies to the Project, DBE must submit to the City a waste management plan prior to starting work. A disposal report is required upon completion of the Project, for materials that are hauled by DBE or by the City's franchised hauler. If a waste management plan is required it must be available throughout the duration of the Project for examination by the City. Electronic submittals are acceptable. The waste management plan must include the following:

- (1) Project title and number;
- (2) identify the construction methods that will be employed to reduce waste;
- (3) Type of material(s) to be recycled, salvaged or landfilled;
- (4) Specify if the waste will be sorted onsite or bulk-mixed; and
- (5) Name and address of recycling facility(ies) and landfill(s) to be used;

The disposal report must include the following:

- (1) Project title;
- (2) Date and time of disposal;
- (3) Truck number;
- (4) Type of material recycled, salvaged, or landfilled;
- (5) Weight of material recycled, salvaged, or landfilled;
- (6) Name and address of recycling facility or landfill;
- (7) Certification or weight tags from facility;
- (8) Weight tags for all material landfilled; and
- (9) If the recycling goal is not met, provide an explanation, to be approved by City, for why it was not met.

(E) **Collection of Waste and Debris.** Collection of garbage, mixed non-organic recyclables, organic waste, and any construction or demolition materials in debris boxes, compactors, or bin-by-the-day services that are not City franchisees or otherwise agents of the City is prohibited. Notwithstanding the above, DBE must dispose of debris from the Project in one of the following:

- (1) Franchised hauler bin;
- (2) A bin owned by DBE or a demolition Subcontractor provided that it is hauled by an employee of the DBE or the demolition Subcontractor and by a vehicle owned and registered to the DBE or the demolition Subcontractor; or
- (3) Private truck with a bed.

(F) **Recycling Containers.** The disposal of garbage in containers designated for compostable waste recycling is prohibited.

7.19 Storm Water Pollution Control. DBE must not pollute the storm drainage system or any waterways or tributaries with waste materials, pollutants, or other harmful materials. DBE and its Subcontractors must at all times in the performance of the Work comply with all applicable Laws concerning pollution of waterways.

(A) **Best Management Practices.** DBE must remove any waste found or generated at the Project site using the appropriate Best Management Practices (“BMPs”), and must properly dispose of the waste or pollutants off-site. If solid or liquid waste materials or pollutants from the Project enter the storm drain system, DBE must immediately notify the City’s Environmental Services Division, and thoroughly clean up the affected catch basins, storm sewer, and storm manholes to the satisfaction of the Engineer. If DBE fails to meet the requirements of this Section, the City may issue a stop-work notice and take necessary action to require DBE to set up preventive measures or clean up the storm drainage system. DBE will bear all costs related to the stop-work action and corrective work, and will not be entitled to an extension of the Contract Time for any resulting delay.

(B) **Stormwater Permit.** DBE must comply with all applicable conditions of the State Water Resources Control Board National Pollutant Discharge Elimination System (“NPDES”) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (“Stormwater Permit”). If required for the Work, a copy of the Stormwater Permit is on file in City’s principal administrative offices, and DBE must comply with the same without adjustment of the Contract Price or the Contract Time. DBE must timely and completely submit required reports and monitoring information required by the conditions of the Stormwater Permit. DBE also must comply with all other applicable Laws governing discharge of stormwater, including applicable municipal stormwater management programs.

(C) **Failure to Comply with Stormwater Permit.** DBE must pay all costs and liabilities imposed by Laws as a result of DBE's failure to comply with the provisions set forth in the Contract Documents. Such costs and liabilities include, but are not limited to, fines, penalties, and damages, whether assessed against the City or DBE, including those levied under the Federal Clean Water Act and the State Porter Cologne Water Quality Act.

(D) **Storm Water Pollution Prevention Plan Preparation.** DBE must incorporate the following BMPs, as applicable, into a site-specific Storm Water Pollution Prevention Plan (“SWPPP”), if required for the Project. The SWPPP must be approved by the Engineer prior to construction.

(1) *Non-Hazardous Material/Waste Management.*

- a. DBE must designate areas of the Project site suitable for material delivery, storage, and waste collection that, to the maximum extent practicable, are near construction entrances and away from catch basins, gutters, drainage courses, and creeks.
- b. DBE must store granular material at least 10 feet away from catch basin and curb returns.
- c. DBE must prevent granular material to enter the storm drains or creeks.
- d. During wet weather and when rain is forecast in the next 24 hours, DBE must cover granular material with a tarpaulin and surround the material with sandbags or other weights to ensure that tarpaulin does not expose the material during wind and rain.
- e. DBE will use minimal amounts of water to control dust on a daily basis or as directed by the Engineer.
- f. At the end of each working day or as directed by the City, DBE must clean and sweep roadways and on-site paved areas of all materials on or adjacent to the Worksite.
- g. Throughout the working day and at the end of each working day, or as directed by the City, DBE must pick up litter, trash, scrap, waste material, and debris from the Project site and any adjacent sidewalk, curb, and gutter area. DBE must keep the site and perimeter free from cigarette butts and other litter.
- h. DBE must ensure that lids for trash receptacles are kept closed and that trash receptacles are maintained in a manner that prevents overflows.
- i. DBE must maintain a clean and litter-free area around all trash receptacles on the site.
- j. DBE will not use water to flush down streets in place of street sweeping or other dry methods of spill cleanup such as applying absorbent, sweeping up material and disposing it in a waste bin.
- k. In addition to DBE's obligation to recycle materials pursuant to Section 7.18 of the General Conditions, DBE must, to the maximum extent practicable, reuse or recycle any useful construction materials generated during the Project.
- l. DBE must inspect any waste and recycling receptacles for leaks, and must contact the City's trash hauling franchisee to immediately replace or repair any leaking receptacles.
- m. DBE will not discharge water on-site as a result of cleaning recycling or trash receptacles.

n. DBE must arrange for regular waste collection before receptacles overflow, and must adjust the frequency of service or the receptacle size as needed to ensure that overflows do not occur.

(2) *Hazardous Material/Waste Management.*

a. DBE must label and store all hazardous materials including but not limited to pesticides, paints, thinners, solvents, and fuels; and all hazardous wastes, including but not limited to waste oil and antifreeze; in accordance with the City's Hazardous Materials Storage Ordinance and all applicable Laws.

b. DBE must keep an accurate, up-to-date inventory, including Materials Safety Data Sheets ("MSDSs"), of hazardous materials and hazardous wastes stored on-site.

c. When rain is forecast within 24 hours or during wet weather, the DBE must not apply chemicals such as pesticides and cleaners, or any materials that may potentially enter the storm drain system, in outside areas.

d. DBE must not over-apply pesticides or fertilizers and must follow materials manufacturer's instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals. Over-application of a pesticide constitutes a "label violation" subject to an enforcement action by the Santa Clara County Agriculture Department.

e. DBE must arrange for regular hazardous waste collection to comply with all applicable time limits on storage of hazardous wastes.

f. DBE must dispose of hazardous waste only at authorized and permitted treatment, storage and disposal facilities, and must use only licensed hazardous waste haulers to remove the waste off-site, unless quantities to be transported are below applicable threshold limits for transportation specified in state and federal regulations.

g. If DBE's business office is located in Santa Clara County, DBE may dispose of this waste through the Countywide Hazardous Waste Program. Businesses generating less than 27 gallons or 220 pounds of hazardous waste per month are legally classified as conditionally exempt small quantity generators ("CESQGs"). Information on the CESQG program may be requested by calling the County at (408) 299-7300.

(3) *Spill Prevention and Control.*

a. DBE must keep a stockpile of spill cleanup materials, such as rags or absorbents, readily accessible on-site.

b. DBE must immediately contain and prevent leaks and spills from entering storm drains, and properly clean up and dispose of the waste and cleanup materials, using dry methods to the extent feasible. If the waste is hazardous, DBE must handle the waste as described in subsection (2) above.

c. DBE will not wash any spilled material into streets, gutters, storm drains, or creeks and will not bury spilled hazardous materials.

d. DBE must report any hazardous materials spill by calling 911 and must notify the City's Public Works Environmental Division at 408-777-3354.

(4) *Vehicle/Equipment Cleaning.*

a. DBE will not perform vehicle or equipment cleaning on-site or in the street using soaps, solvents, degreasers, steam cleaning equipment, or equivalent methods.

b. DBE must perform vehicle or equipment cleaning, with water only, in a designated, bermed, pervious area that will not allow rinse water to run offsite or into streets, gutters, storm drains, or creeks.

(5) *Vehicle/Equipment Maintenance and Fueling.*

a. DBE will not perform maintenance and fueling of vehicles onsite.

b. DBE must perform maintenance and fueling of equipment only when necessary, and in a designated, bermed area or over a drip pan that will not allow run-on of storm water or runoff of spills.

c. DBE must use secondary containment, such as a drip pan, to catch leaks or spills any time that equipment fluids are dispensed, changed, or poured.

d. DBE must keep a stockpile of spill cleanup materials, such as rags or absorbents, readily accessible on-site to clean up drips and spills.

e. DBE must clean up leaks and spills of vehicle or equipment fluids immediately and dispose of the waste and cleanup materials as hazardous waste, as described above.

f. DBE will not wash any spilled material into streets, gutters, storm drains, or creeks and shall not bury spilled hazardous materials.

g. DBE must report any hazardous materials spill by calling 911. After the emergency has been reported, DBE must notify the City's Public Works Environmental Division.

h. DBE must inspect vehicles and equipment arriving on-site for leaking fluids and shall promptly repair leaking vehicles and equipment. Drip pans must be used to catch leaks until repairs are made. Shut-off valves on equipment must be working properly.

i. DBE must comply with all applicable Laws for above-ground storage tanks.

(6) *DBE Training and Awareness.*

a. DBE must train all employees and Subcontractors on the SWPPP requirements contained in these General Conditions.

- b. DBE must include appropriate provisions in its subcontracts to ensure that these SWPPP requirements are met.
- c. DBE must post warning signs in areas treated with chemicals.
- d. DBE must paint City-approved stencil or, preferably, apply steel medallions to, any new catch basins with the “No Dumping, Flows to Creek” stencil or medallion markers available from the City’s Public Works Environmental Division.

(7) *Activity-Specific Requirements.* The following requirements apply if the Project includes the listed activities.

- a. Dewatering or Pumping Operations.
 - (i) DBE must not discharge water to the storm drain system. Water discharges must be directed to a pervious, landscaped, or bioretention area where water will be infiltrated without causing runoff, or routed to the sanitary sewer system after obtaining a permit from Cupertino Sanitary District or Sunnyvale Sanitary, depending on which has jurisdictional authority, or contained using a Baker tank or other means to collect the water for re-use or safe and legal disposal. DBE may contact the City’s Environmental Division for more information on these control measures.
 - (ii) DBE must obtain approval of the Engineer for any control measure in advance.
 - (iii) DBE must reuse water for other needs, including but not limited to dust control or irrigation, to the maximum extent practicable.
- b. Paving Operations.
 - (i) When rain is forecast within 24 hours or during wet weather, the Engineer may require that paving be delayed for more suitable conditions.
 - (ii) The Engineer may direct DBE to protect drainage courses by using control measures, including but not limited to, earth dike, straw bale, and sandbag, to divert runoff or trap and filter sediment. DBE must refer to California Storm Water Best Management Practice Handbook for these control measures.
 - (iii) DBE must place drip pans or absorbent material under paving equipment when not in use.
 - (iv) DBE must securely cover catch basins and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
 - (v) DBE must remove, clean and reapply or replace catch basin covers as often as needed to ensure protection of the storm drain system from any material other than rain.

(vi) Before Final Completion, DBE must remove and dispose of all catch basin covers and material trapped by the covers. If DBE fails to remove and dispose of the covers and materials trapped, City reserves the right to delay final inspection and/or deduct monies from payments due DBE to compensate the City for its additional costs for removal and disposal of catch basin protection.

(vii) If the paving operation includes an on-site mixing plant, DBE must comply with Santa Clara County General Industrial Activities Storm Water Permit requirements.

(viii) DBE must preheat, transfer or load hot bituminous material away from drainage systems or watercourses.

(ix) DBE will not sweep or wash down excess sand (placed as part of a sand seal or to absorb excess oil) into streets, gutters, storm drains, or creeks. DBE must either collect the sand and return it to the stockpile, or dispose of it in a trash container. DBE will not use water to wash down fresh asphalt concrete pavement.

c. Saw Cutting.

(i) DBE must use as little water as possible during saw cutting and grinding operations.

(ii) DBE must cover or barricade catch basins using control measures, including but not limited to as filter fabric, straw bales, sandbags, and fine gravel dams, to keep slurry out of the storm drain system. When protecting a catch basin, DBE must ensure that the entire opening is covered. DBE must refer to California Storm Water Best Management Practice Handbook for these control measures.

(iii) DBE must remove, clean and reapply or replace catch basin covers.

(iv) Before Final Completion, DBE must remove and dispose of all catch basin covers.

(v) DBE must shovel, absorb or vacuum saw cut slurry and pick up the waste prior to moving to the next location or at the end of each working day, whichever is sooner.

(vi) If saw cut slurry enters catch basins, DBE must remove the slurry from the storm drain system immediately.

d. Traffic Detector Loop Installation and Repair.

(i) DBE must protect nearby storm drain inlets prior to cutting or flushing slot for traffic detector loops. DBE must block or berm around nearby storm drain inlets using sandbags or an equivalent barrier or use absorbent materials such as pads, pillows and socks to contain slurry.

- (ii) Before Final Completion, DBE must remove all sandbags and equivalent barriers and absorbent materials from the site and sweep the area clean and away from the storm drain inlet.
 - (iii) DBE must clean up residues by sweeping up as much material as possible and must dispose of material properly.
- e. Concrete, Grout and Mortar Waste Management.
 - (i) DBE must avoid mixing excess amounts of fresh concrete or cement mortar on-site.
 - (ii) DBE must store concrete, grout and mortar away from drainage areas and ensure that these materials do not enter the storm drain system.
 - (iii) DBE will not wash out concrete trucks or equipment into streets, gutters, storm drains, or creeks.
 - (iv) DBE must perform washout of concrete trucks or equipment off-site or in a designated area on-site where the water will flow onto dirt or into a temporary pit in a dirt area. DBE must let the water percolate into the soil and dispose of the hardened concrete in a trash container. If a suitable dirt area is not available, DBE must collect the wash water and remove it off-site.
 - (v) DBE will prevent creating runoff by draining water from washing of exposed aggregate concrete to a dirt area. If a suitable dirt area is not available, DBE must collect the wash water and remove it off-site.
 - (vi) Before Final Completion, DBE must remove all protective measures and treatment materials and sweep the site clean.
 - (vii) DBE must collect and return sweepings from exposed aggregate concrete to a stockpile or dispose of the waste in a trash container.
- f. Painting.
 - (i) DBE must conduct cleaning of painting equipment and tools in a designated area that will not allow run-on of storm water or runoff of spills.
 - (ii) DBE will not allow wash water from cleaning of painting equipment and tools into streets, gutters, storm drains or creeks.
 - (iii) DBE will remove as much excess paint as possible from brushes, rollers and equipment before starting cleanup.
 - (iv) To the maximum extent practicable and with permission from Cupertino Sanitary District, DBE will dispose of wash water

from aqueous cleaning of equipment and tools to the sanitary sewer.

(v) If DBE cannot dispose of wash water to the sanitary sewer, DBE must direct wash water onto dirt area and spade in.

(vi) To the maximum extent practicable, DBE will filter paint thinner and solvents for reuse.

(vii) DBE must dispose of thinners, solvents, oil and water-based paint, and sludge from cleaning of equipment and tools as hazardous waste, as described in these General Conditions.

(viii) DBE must store paint, solvents, chemicals, and waste materials in compliance with the City of Cupertino Hazardous Materials Storage Ordinance and all applicable state and federal regulations. DBE must store these materials in a designated area that will not allow run-on of storm water or runoff of spills.

(ix) DBE must dispose of dry or empty paint cans and buckets, old brushes, rollers, rags, and drop cloths in the trash.

g. Earthwork.

(i) DBE must use the BMPs for erosion and sedimentation in either the California Storm Water Best Management Practice Handbook - Construction Activity or the ABAG Manual of Standards for Erosion and Sediment Control Measures.

h. Thermoplastic.

(i) DBE must transfer and load hot thermoplastic away from drainage systems or watercourses.

(ii) DBE must sweep thermoplastic grindings into plastic bags. Yellow thermoplastic grindings may require special handling as they may contain paint.

i. Pesticide Usage and Pest Management.

(i) DBE must follow all federal, state, and local policies (including the City's Integrated Pest Management Policy), laws, and regulations governing the use, storage, and disposal of pesticides and training of pest control advisors and applicators.

(ii) DBE must submit pest management control methods to Engineer for approval. Such control methods may include, but are not limited to: no controls; physical or mechanical methods; environmental controls (mulching, pest-resistant vegetation); biological controls (predators, parasites, etc.); less toxic controls (soaps, oils, etc.); and hot water.

(iii) DBE must notify and receive permission from the Engineer and the Public Works Environmental Division before applying any pesticides.

- (iv) If permitted to use pesticides, DBE must use the least toxic pesticides available and the use and type of such pesticides must be approved by the City. The City will consider the LD50, overall risk to the applicator, and impact to the environment when approving the use of pesticides.
- (v) DBE must apply pesticides at the appropriate time to maximize their effectiveness and minimize the likelihood of discharging non-degraded pesticides in stormwater runoff. DBE will not apply pesticides if rain is expected.
- (vi) DBE must mix and apply only as much material as is necessary for treatment. DBE must calibrate application equipment prior to and during use to ensure desired application rate.
- (vii) DBE will not mix or load pesticides in application equipment adjacent to a storm drain inlet culvert or watercourse.
- (viii) DBE will not use Clopyralid, Diazinon, Chlorpyrifos, Chloradane, DDT, Dieldrin or other organophosphates. Fipronil and pyrethroids including, but not limited to Deltamethrin and Bifenthrin, will not be applied on City property.
- (ix) DBE must submit monthly summaries of pesticide use to the Public Works Environmental Division on appropriate City form. Information provided must include, at a minimum, the product used, the method of application, date applied, the area to which it is applied, and the amount applied.

7.20 Traffic Control and Public Safety.

- (A) **Fences and Barriers.** DBE must furnish, erect, and maintain fences, barriers, lights, and signs, and must provide flagging and guards as necessary to give adequate warning to the public of the construction and of any dangerous condition at DBE's sole cost and expense. City must approve all signs as to size, wording, and location. City, in its sole discretion, may direct DBE to implement additional measures. DBE may be required to cover certain signs which regulate or direct public traffic to roadways that are not open to traffic. The Engineer will determine which signs must be covered.
- (B) **Manual on Uniform Traffic Control Devices (MUTCD).** Notwithstanding the requirements of this Section 7.20, all fences, barriers, signs, lights, flags, and other warning and safety devices and their use must conform to the requirements of Part 6 of the United States Department of Transportation MUTCD and the MUTCD California Supplement.
- (C) **Sign Conflicts.** Signs and other protective devices furnished and erected by DBE will not obscure the visibility of, nor conflict in intent, meaning, and function of, existing signs, lights, and traffic control devices or any construction area signs and traffic control devices
- (D) **Public Access.** DBE must conduct operations in the manner that offers the least possible obstruction and inconvenience to the public. DBE must complete the Work in a manner that allows for access to public rights-of-way. Unless otherwise provided in the Contract Documents, all public traffic must be permitted to pass through the Work

with as little inconvenience and delay as possible. Where possible, public traffic must be routed on new or existing paved surfaces.

(E) **Public Spills.** Spillage resulting from hauling operations along or across any public right-of-way must be removed immediately by DBE at DBE's sole cost and expense.

(F) **Existing Traffic Signals.** Existing traffic signals and highway lighting must be kept in operation and available for routine maintenance during construction.

(G) **Abutting Properties.** Construction operations must be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners. DBE must maintain convenient access to driveways, houses, and buildings, and temporary approaches to crossings or intersecting highways must be provided and kept in good condition. When an abutting property owner's access across the right-of-way line is to be eliminated or replaced by other access facilities, the existing access will not be closed until the replacement access facilities are usable.

(H) **Lane Closures.** Lane closures are not permitted before 7:00 A.M. or after 5:00 P.M. from Monday through Friday or as otherwise specified in the Special Conditions or Specifications. City may, at its sole discretion, approve lane closures during this time upon written request from DBE. DBE must maintain a minimum of two travel lanes for traffic use (one in each direction) at all times.

(I) **Costs.** DBE is solely responsible for all costs for all required traffic control and public safety measures.

7.21 Noise Control. DBE must comply with all applicable noise control laws, ordinances, regulations and rules. Noise control requirements apply to all equipment used for the Work or related to the Work, including trucks, transit mixers or transient equipment that may or may not be owned by DBE.

7.22 Fire Protection Plan. If a fire protection plan is required for this Project, within 21 days after the date of issuance of the Notice to Proceed with Construction Services, DBE must submit to the Engineer a fire protection plan that has been reviewed and approved by the Santa Clara County Fire Department. In addition to any specified requirements for the fire protection plan, the plan should address all of the following:

- (A) Equipment spark arresters;
- (B) Fire-extinguishing equipment at the Worksite(s);
- (C) Fire response procedures;
- (D) Notification to authorities of any fire;
- (E) Fire equipment access during performance of the Work and after hours;
- (F) Educating and training workers to comply with the fire protection plan
- (G) Safe storage and transport of flammable materials; and
- (H) Equipment for ventilation and illumination.

Article 8 - Payment

- 8.1 Payment.** For all Services performed in compliance with the Contract Documents, City will compensate DBE in an amount not to exceed the Contract Price, as adjusted by approved Change Orders, if any, as further specified below.
- 8.2 Schedule of Values.** Prior to commencing the Construction Phase, DBE must prepare and submit to the Project Manager a schedule of values apportioned to the various divisions and phases of the Work, including cost allocations for both the Design Services and the Construction Services to be provided during the Construction Phase. Each line item contained in the schedule of values must be assigned a value such that the total of all items required for the Construction Services does not exceed the Contract Price for Construction Services under Section 3.1(B) of the Contract. The items must be sufficiently detailed to enable accurate evaluation of the percentage of completion claimed in each application for payment, and the assigned value consistent with any itemized or unit pricing submitted with DBE's Proposal.
- (A) **Measurements for Unit Price Work.** Materials and items of Work to be paid for on the basis of unit pricing (if any) will be measured according to the methods specified in the Contract Documents.
- (B) **Deleted or Reduced Work.** DBE will not be compensated for Work that City has deleted or reduced in scope, except for any labor, material or equipment costs for such Work that DBE reasonably incurred before DBE learned that the Work could be deleted or reduced. DBE will only be compensated for those actual, direct and documented costs incurred, and will not be entitled to any mark up for overhead or lost profits for deleted or reduced scope.
- 8.3 Progress Payments.** Following the last day of each month, or as otherwise required by the Special Conditions or Specifications, DBE will submit to the Project Manager for approval, a monthly application for payment for Work performed during the preceding month based on the estimated value of the Design Services or Construction Services performed during that preceding month.
- (A) **Application for Payment.**
- (1) Each application for payment for Design Services must summarize the Design Services provided during the preceding month and identify each Design Professional that provided those services.
- (2) Each application for payment for Construction Services must be itemized to include labor, materials, and equipment incorporated into the Work, and materials and equipment delivered to the Project site, as well as authorized and approved Change Orders. Each application for payment for Construction Services must be supported by DBE's schedule of values and any other substantiating data required by the Contract Documents. If requested by the Project Manager, each application for payment for Construction Services must also be accompanied by an executed Conditional Waiver and Release Upon Progress Payment, using the form specified in Civil Code § 8132 for each Subcontractor that performed Work during the period covered by that application. The application for payment for Construction Services must also include the monthly report documenting compliance with the Skilled and Trained Workforce requirements pursuant to Public Contract Code § 2602, and as specified in Section 9.6, below.
- (B) **Payment of Undisputed Amounts.**

(1) City will pay the undisputed amount due, as certified by the Project Manager, within 30 days after DBE has submitted a complete and accurate payment application, subject to Public Contract Code § 20104.50. City will deduct a percentage from each progress payment as retention, as set forth in Section 8.6, below, and may withhold additional amounts as set forth in Section 8.4, below.

(2) If required by the Project Manager, within 45 days after receipt of each payment from City for Construction Services, DBE must submit an executed Unconditional Waiver and Release Upon Progress Payment, using the form specified in Civil Code § 8134, from each Subcontractor that has received a progress payment from DBE following DBE's receipt of payment from City.

8.4 Adjustment of Payment Application. City may adjust or reject the amount requested, in a payment application, including application for Final Payment, in whole or in part, if the amount requested is disputed or unsubstantiated. DBE will be notified in writing of the basis for the modifications to the amount requested. City may also deduct or withhold from payment otherwise due based upon any of the circumstances listed below. Sums withheld from payment otherwise due will be released when the basis for that withholding has been remedied and no longer exists.

(A) DBE's unexcused failure to perform the Work as required by the Contract Documents, including correction or completion of punch list items City may withhold or deduct an amount based on the City's estimated cost to correct or complete the Work;

(B) Loss or damage caused by DBE or its Subcontractors arising out of or relating to performance of the Work or any failure to protect the Project Site, City may deduct an amount based on the estimated cost to repair or replace;

(C) DBE's failure to pay its Subcontractors and suppliers when payment is due, City may withhold an amount equal to the total of past due payments and may opt to pay that amount separately via joint check pursuant to Section 8.6(B), Joint Checks.

(D) DBE's failure to timely correct rejected, nonconforming, or defective Work, City may withhold or deduct an amount based on the City's estimated cost to correct or complete the Work;

(E) For any unreleased stop notice, City may withhold 125% of the amount claimed;

(F) DBE's failure to submit any required schedule, schedule update or daily reports in the manner and within the time specified in the Contract Documents, City may withhold or deduct an amount equal to ten percent of the total amount requested until DBE complies with its schedule submittal obligations;

(G) DBE's failure to maintain or submit as-built documents in the manner and within the time specified in the Contract Documents City may withhold or deduct an amount based on the City's cost to prepare the as-builts;

(H) For Work performed without Shop Drawings that have been accepted by City, when accepted Shop Drawings are required before proceeding with the Work, City may deduct an amount based on the estimated costs to correct unsatisfactory work or diminution in value;

(I) For fines, payments, or penalties assessed under the Labor Code, City may deduct from payments due to DBE as required by Laws and as directed by the Division of Labor Standards Enforcement;

(J) For any other costs or charges that may be withheld or deducted from payments to DBE, as provided in the Contract Documents, including liquidated damages, City may withhold or deduct such amounts from payment otherwise due to DBE; and

(K) For failure to release claims as to undisputed amounts pursuant to Section 8.10, below

8.5 Early Occupancy. Neither City's payment of progress payments nor its partial or full use or occupancy of the Project constitutes acceptance of any part of the Work.

8.6 Retention. City will retain five percent of the amount due on each progress payment (i.e., the amount due before any withholding or deductions pursuant to Section 8.4, Adjustment to Payment Application), or the percentage stated in the RFP, whichever is greater, as retention to ensure full and satisfactory performance of the Services. DBE is not entitled to any reduction in the rate of withholding at any time, nor to release of any retention before 35 days following City's acceptance of the Project.

(A) **Substitution of Securities.** As provided by Public Contract Code § 22300, DBE may request in writing that it be allowed, at its sole expense, to substitute securities for the retention withheld by City. Any escrow agreement entered into pursuant to this provision will fully comply with Public Contract Code § 22300 and will be subject to approval as to form by City's legal counsel. If City exercises its right to draw upon such securities in the event of default pursuant to section (7) of the statutory Escrow Agreement for Security Deposits in Lieu of Retention, pursuant to subdivision (f) of Public Contract Code § 22300 ("Escrow Agreement"), and if DBE disputes that it is in default, its sole remedy is to comply with the dispute resolution procedures in Article 12 and the provisions therein. It is agreed that if any individual authorized to give or receive written notice on behalf of a party pursuant to section (10) of the Escrow Agreement are unavailable to give or receive notice on behalf of that party due to separation from employment, retirement, death, or other circumstances, the successor or delegee of the named individual is deemed to be the individual authorized to give or receive notice pursuant to section (10) of the Escrow Agreement.

(B) **Release of Undisputed Retention.** All undisputed retention, less any amounts that may be assessed as liquidated damages, retained for stop notices, or otherwise withheld pursuant to Section 8.4 or 8.7, will be released as Final Payment to DBE no sooner than 35 days following recordation of the notice of completion, and no later than 60 days following acceptance of the Project by City's governing body or authorized designee pursuant to Section 11.1(C) Acceptance, or, if the Project has not been accepted, no later than 60 days after the Project is otherwise considered complete pursuant to Public Contract Code § 7107(c), as determined by City based on its records.

8.7 Setoff. City is entitled to set off any amounts due from DBE against any payments due to DBE. City's entitlement to setoff includes progress payments as well as Final Payment and release of retention.

8.8 Payment to Subcontractors and Suppliers. Each month, DBE must promptly pay each Subcontractor and supplier the value of the portion of labor, materials, and equipment incorporated into the Work or delivered to the Project site by the Subcontractor or supplier during the preceding month. Such payments must be made in accordance with the requirements of Laws pertaining to such payments, and those of the Contract Documents and applicable subcontract or supplier contract.

(A) **Withholding for Stop Notice.** City will withhold 125% of the amount claimed by an unreleased stop notice, a portion of which may be retained by City for the costs

incurred in handling the stop notice claim, including attorneys' fees and costs, as authorized by law.

(B) **Joint Checks.** City reserves the right, acting in its sole discretion, to issue joint checks made payable to DBE and its Subconsultants, Subcontractors or suppliers, if City determines this is necessary to ensure fair and timely payment for a Subcontractor or supplier who has provided services or goods for the Project. As a condition to release of payment by a joint check, the joint check payees may be required to execute a joint check agreement in a form provided or approved by the City Attorney's Office. The joint check payees will be jointly and severally responsible for the allocation and disbursement of funds paid by joint check. Payment by joint check will not be construed to create a contractual relationship between City and a Subcontractor or supplier of any tier beyond the scope of the joint check agreement.

8.9 Final Payment. DBE's application for Final Payment must comply with the requirements for submitting an application for a progress payment as stated in Section 8.3, above. Corrections to previous progress payments, including adjustments to estimated quantities for unit priced items, may be included in the Final Payment. If DBE fails to submit a timely application for Final Payment, City reserves the right to unilaterally process and issue Final Payment without an application from DBE in order to close out the Project. For the purposes of determining the deadline for Claim submission pursuant to Article 12, the date of Final Payment is deemed to be the date that City acts to release undisputed retention as final payment to DBE, or otherwise provides written notice to DBE of Final Payment or that no undisputed funds remain available for Final Payment due to offsetting withholdings or deductions pursuant to Section 8.4, Adjustment of Payment Application. If the amount due from DBE to City exceeds the amount of Final Payment, City retains the right to recover the balance from DBE or its sureties.

8.10 Release of Claims. City may, at any time, require that payment of the undisputed portion of any progress payment or Final Payment (excepting undisputed retention subject to release under Public Contract Code § 7107) be contingent upon DBE furnishing City with a written waiver and release of all claims against City arising from or related to the portion of Work covered by those undisputed amounts subject to the limits of Public Contract Code § 7100. The waiver and release of claims must be submitted using the City's Release of Claims form. Any disputed amounts may be specifically excluded from the release.

8.11 Warranty of Title. DBE warrants that title to all work, materials, or equipment incorporated into the Work or delivered to a Project site, and included in a request for payment will pass over to City free of any claims, liens, or encumbrances upon any payment to DBE.

Article 9 - Labor Provisions

9.1 Discrimination Prohibited. Discrimination against any prospective or present employee engaged in the Work on grounds of race, color, ancestry, national origin, ethnicity, religion, sex, sexual orientation, age, disability, or marital status is strictly prohibited. DBE and its Subcontractors are required to comply with all applicable Laws prohibiting discrimination, including the California Fair Employment and Housing Act (Government Code § 12900 et seq.), Government Code § 11135, and Labor Code §§ 1735, 1777.5, 1777.6, and 3077.5.

9.2 Labor Code Requirements. The following requirements apply to any work classified as "public works" pursuant to Labor Code § 1720 et seq. (and any corresponding regulations):

(A) **Eight Hour Day.** Pursuant to Labor Code § 1810, eight hours of labor constitute a legal day's work under this Contract.

(B) **Penalty.** Pursuant to Labor Code § 1813, DBE will forfeit to City as a penalty, the sum of \$25.00 for each day during which a worker employed by DBE or any Subcontractor is required or permitted to work more than eight hours in any one calendar day or more than 40 hours per calendar week, except if such workers are paid overtime under Labor Code § 1815.

(C) **Apprentices.** DBE is responsible for compliance with the requirements governing employment and payment of apprentices, as set forth in Labor Code § 1777.5, which is fully incorporated by reference.

(D) **Notices.** Pursuant to Labor Code § 1771.4, DBE is required to post all job site notices prescribed by Laws.

9.3 Prevailing Wages. Each worker performing Work under this Contract that is covered under Labor Code § 1720 or 1720.9, including cleanup at the Project site, must be paid at a rate not less than the prevailing wage as defined in § 1771 and 1774 of the Labor Code. The prevailing wage rates are on file with the City and available online at <http://www.dir.ca.gov/dlsr>. DBE must post a copy of the applicable prevailing rates at the Project site.

(A) **Penalties.** Pursuant to Labor Code § 1775, DBE and any Subcontractor will forfeit to City as a penalty up to \$200.00 for each calendar day, or portion a day, for each worker paid less than the applicable prevailing wage rate. DBE must also pay each worker the difference between the applicable prevailing wage rate and the amount actually paid to that worker.

(B) **Federal Requirements.** If the Project is subject to federal prevailing wage requirements in addition to California prevailing wage requirements, DBE and its Subcontractors are required to pay the higher of the currently applicable prevailing wage rates.

9.4 Payroll Records. At all times during performance of Construction Services, DBE must comply with the provisions of Labor Code §§ 1776 and 1812 and all implementing regulations, which are fully incorporated by this reference, including requirements for electronic submission of payroll records.

(A) **DBE and Subcontractor Obligations.** DBE and each Subcontractor must keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed in connection with the Work. Each payroll record must contain or be verified by a written declaration that it is made under penalty of perjury, stating both of the following:

(1) The information contained in the payroll record is true and correct.

(2) DBE or Subcontractor has complied with the requirements of Labor Code §§ 1771, 1811, and 1815 for any Work performed by its employees on the Project.

(B) **Certified Record.** A certified copy of an employee's payroll record must be made available for inspection or furnished to the employee or his or her authorized representative on request, to City, or to the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the DIR, and as further required by the Labor Code.

(C) **Enforcement.** Upon notice of noncompliance with Labor Code § 1776, DBE or Subcontractor has ten days in which to comply with the requirements of this section. If DBE or Subcontractor fails to do so within the ten day period, DBE or Subcontractor will forfeit a penalty of \$100.00 per day, or portion a day, for each worker for whom compliance is required, until strict compliance is achieved. Upon request by the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement, these penalties will be withheld from progress payments then due.

9.5 Labor Compliance. Pursuant to Labor Code § 1771.4, Services subject to this Article are subject to compliance monitoring and enforcement by the DIR.

9.6 Skilled and Trained Workforce. DBE and its Subcontractors of every tier must use a Skilled and Trained Workforce, to perform all Work on the Project that falls within an apprenticeable occupation in the building and construction trades. DBE will submit a report each month to the City demonstrating compliance with this requirement during the previous calendar month. The monthly report on compliance with Skilled and Trained Workforce compliance during the previous calendar month, must be submitted with DBE's monthly application for progress payments.

Article 10 - Safety Provisions

10.1 Safety Precautions and Programs. DBE and its Subcontractors are fully responsible for safety precautions and programs, and for the safety of persons and property in the performance of the Work. DBE and its Subcontractors must at all times comply with all applicable safety Laws and seek to avoid injury, loss, or damage to persons or property by taking reasonable steps to protect its employees and other persons at the Worksite, materials and equipment stored on or off site, and property at or adjacent to the Worksite.

(A) **Reporting Requirements.** DBE must immediately notify the City of any death, serious injury or illness resulting from Work on the Project. DBE must immediately provide a written report to City of each recordable accident or injury occurring at any Worksite within 24 hours of the occurrence. The written report must include: (1) the name and address of the injured or deceased person; (2) the name and address of each employee of DBE or of any Subcontractor involved in the incident; (3) a detailed description of the incident, including precise location, time, and names and contact information for known witnesses; and (4) a police or first responder report, if applicable. If DBE is required to file an accident report with a government agency, DBE will provide a copy of the report to City.

(B) **Legal Compliance.** DBE's safety program must comply with the applicable legal and regulatory requirements. DBE must provide City with copies of all notices required by Laws.

(C) **DBE's Obligations.** Any damage or loss caused by DBE arising from the Work which is not insured under property insurance must be promptly remedied by DBE.

(D) **Remedies.** If City determines, in its sole discretion, that any part of the Work or Project site is unsafe, City may, without assuming responsibility for DBE's safety program, require DBE or its Subcontractor to cease performance of the Work or to take corrective measures to City's satisfaction. If DBE fails to promptly take the required corrective measures, City may perform them and deduct the cost from the Contract Price. DBE agrees it is not entitled to submit a Claim for damages, for an increase in Contract Price, or for a change in Contract Time based on DBE's compliance with City's request for corrective measures pursuant to this provision.

10.2 Hazardous Materials. Unless otherwise specified, this Contract does not include the removal, handling, or disturbance of any asbestos or other Hazardous Materials. If DBE encounters materials on the Project site that DBE reasonably believes to be asbestos or other Hazardous Materials, and the asbestos or other Hazardous Materials have not been rendered harmless, DBE may continue Work in unaffected areas reasonably believed to be safe, but must immediately cease work on the area affected and report the condition to City. No asbestos, asbestos-containing products or other Hazardous Materials may be used in performance of the Work.

10.3 Material Safety. DBE is solely responsible for complying with § 5194 of Title 8 of the California Code of Regulations, including by providing information to DBE's employees about any hazardous chemicals to which they may be exposed in the course of the Work. A hazard communication program and other forms of warning and training about such exposure must be used. DBE must also maintain Safety Data Sheets ("SDS") at the Project site, as required by Laws, for materials or substances used or consumed in the performance of the Work. The SDS will be accessible and available to DBE's employees, Subcontractors, and City.

(A) **DBE Obligations.** DBE is solely responsible for the proper delivery, handling, use, storage, removal, and disposal of all materials brought to the Project site and/or used in the performance of the Work. DBE must notify the Engineer if a specified product or material cannot be used safely.

(B) **Labeling.** DBE must ensure proper labeling on any material brought onto the Project site so that any persons working with or in the vicinity of the material may be informed as to the identity of the material, any potential hazards, and requirements for proper handling, protections, and disposal.

10.4 Hazardous Condition. DBE is solely responsible for determining whether a hazardous condition exists or is created during the course of the Work, involving a risk of bodily harm to any person or risk of damage to any property. If a hazardous condition exists or is created, DBE must take all precautions necessary to address the condition and ensure that the Work progresses safely under the circumstances. Hazardous conditions may result from, but are not limited to, use of specified materials or equipment, the Work location, the Project site condition, the method of construction, or the way any Work must be performed.

10.5 Emergencies. In an emergency affecting the safety or protection of persons, Work, or property at or adjacent to any Worksite, DBE must take reasonable and prompt actions to prevent damage, injury, or loss, without prior authorization from the City if, under the circumstances, there is inadequate time to seek prior authorization from the City.

Article 11 - Completion and Warranty Provisions

11.1 Final Completion.

(A) **Final Inspection and Punch List.** When the Work required by this Contract is fully performed, DBE must provide written notification to City requesting final inspection. The Project Manager will schedule the date and time for final inspection, which must include DBE's primary representative for this Project and its superintendent for the Construction Services. Based on that inspection, City will prepare a punch list of any items that are incomplete, incorrectly installed, or otherwise not operating as required by the Contract Documents. City will deliver the punch list to DBE and will specify the time by which all of the punch list items must be completed or corrected. The punch list may

include City's estimated cost to complete each punch list item if DBE fails to do so within the specified time. The omission of any non-compliant item from a punch list will not relieve DBE from fulfilling all requirements of the Contract Documents. DBE's failure to complete any punch list item within the time specified in the punch list will not waive or abridge its warranty obligations for any such items that must be completed by the City or by a third party retained by the City due to DBE's failure to timely complete any such outstanding item. If DBE requests final inspection and City determines that Work exceeding five percent of the total value of the Contract, as adjusted, remains unfinished, DBE will be responsible for City's costs, including staff time, for performance of the final inspection on a premature basis.

(B) **Requirements for Final Completion.** Final Completion will be achieved upon completion or correction of all punch list items, as verified by City's further inspection, and upon satisfaction of all other Contract requirements, including any commissioning required under the Contract Documents and submission of all final submittals, instructions and manuals as required under Section 7.9, and as-built drawings as required under Section 7.10, all to City's satisfaction.

(C) **Acceptance.** The Project will be considered accepted upon City Council action during a public meeting to accept the Project, unless the Engineer is authorized to accept the Project, in which case the Project will be considered accepted upon the date of the Engineer's issuance of a written notice of acceptance. In order to avoid delay of Project close out, the City may elect, acting in its sole discretion, to accept the Project as complete subject to exceptions for punch list items that are not completed within the time specified in the punch list.

(D) **Final Payment and Release of Retention.** Final Payment and release of retention, less any sums withheld pursuant to the provisions of the Contract Documents, will not be made sooner than 35 days after recordation of the notice of completion. If DBE fails to complete all of the punch list items within the specified time, City may withhold up to 150% of City's estimated cost to complete each of the remaining items from Final Payment and may use the withheld retention to pay for the costs to self-perform the outstanding items or to retain a third party to complete any such outstanding punch list item.

11.2 Warranty.

(A) **General.** DBE warrants that all materials and equipment will be new unless otherwise specified, of good quality, in conformance with the Contract Documents, and free from defective workmanship and materials. DBE further warrants that the Work will be free from material defects not intrinsic in the design or materials required in the Contract Documents. Contractor warrants that materials or items incorporated into the Work comply with the requirements and standards in the Contract Documents, including compliance with Laws, and that any Hazardous Materials encountered or used were handled as required by Laws. At City's request, DBE must furnish satisfactory evidence of the quality and type of materials and equipment furnished. DBE's warranty does not extend to damage caused by normal wear and tear, or improper use or maintenance.

(B) **Warranty Period.** DBE's warranty must guarantee its Work for a period of one year from the date of recordation of the notice of completion (the "Warranty Period"), except when a longer guarantee is provided by a supplier or manufacturer or is required by the Specifications or Special Conditions. DBE must obtain from its Subcontractors, suppliers and manufacturers any special or extended warranties required by the Contract Documents.

(C) **Warranty Documents.** As a condition precedent to Final Completion, DBE must supply City with all warranty and guarantee documents relevant to equipment and materials incorporated into the Work and guaranteed by their suppliers or manufacturers.

(D) **Subcontractors.** The warranty obligations in the Contract Documents apply to Work performed by DBE and its Subcontractors, and DBE agrees to be co-guarantor of such Work.

(E) **DBE's Obligations.** Upon written notice from City to DBE of any defect in the Work discovered during the Warranty Period, DBE or its responsible Subcontractor must promptly correct the defective Work at its own cost. DBE's obligation to correct defects discovered during the Warranty Period will continue past the expiration of the Warranty Period as to any defects in Work for which DBE was notified prior to expiration of the Warranty Period. Work performed during the Warranty Period ("Warranty Work") will be subject to the warranty provisions in this Section 11.2 for a one-year period that begins upon completion of such Warranty Work to City's satisfaction.

(F) **City's Remedies.** If DBE and/or its responsible Subcontractor fails to correct defective Work within ten days following notice by City, or sooner if required by the circumstances, DBE expressly agrees that City may correct the defects to conform with the Contract Documents at DBE's sole expense, and DBE agrees to reimburse City for its costs within 30 days following City's submission of a demand(s) for payment pursuant to this provision. If City is required to initiate legal action to compel DBE's compliance with this provision, and City is the prevailing party in such action, DBE is solely responsible for all of City's attorney's fees and legal costs expended to enforce DBE's warranty obligations herein in addition to any and all costs City incurs to correct the defective Work.

(G) **Emergency Repairs.** In cases of emergency where any delay in correcting defective Work could cause harm, loss or damage, DBE expressly agrees that City may immediately correct the defects to conform with the Contract Documents at DBE's sole expense, and DBE agrees to reimburse City for its costs within 30 days following City's submission of a demand(s) for payment pursuant to this provision. If City is required to initiate legal action to compel DBE's compliance with this provision, and City is the prevailing party in such action, DBE and its surety are solely responsible for all of City's attorney's fees and legal costs expended to enforce DBE's warranty obligations herein in addition to any and all costs City incurs to immediately correct the defective Work, including any associated overtime expenses.

11.3 Use Prior to Final Completion. City reserves the right to occupy or make use of the Project, or any portions of the Project, prior to Final Completion if City has determined that the Project or portion of it is in a condition suitable for the proposed occupation or use, and that it is in its best interest to occupy or make use of the Project, or any portions of it, prior to Final Completion. City will notify DBE in writing of its intent to occupy or make use of the Project or any portions of the Project, pursuant to this provision.

(A) **Non-Waiver.** Occupation or use of the Project, in whole or in part prior to Final Completion will not operate as acceptance of the Work or any portion of it, nor will it operate as a waiver of any of City's rights or DBE's duties pursuant to these Contract Documents, and will not affect nor bear on the determination of the time of substantial completion with respect to any statute of repose pertaining to the time for filing an action for construction defect.

(B) **City's Responsibility.** City will be responsible for the cost of maintenance and repairs due to normal wear and tear with respect to those portions of the Project that are being occupied or used before Final Completion. The Contract Price or the Contract

Time may be adjusted pursuant to the applicable provisions of these Contract Documents if, and only to the extent that, any occupation or use under this Section actually adds to DBE's cost or time to complete the Work within the Contract Time.

- 11.4 Substantial Completion.** For purposes of determining "substantial completion" with respect to any statute of repose pertaining to the time for filing an action for construction defect, "substantial completion" is deemed to mean the last date that DBE or any Subcontractor performs Work on the Project prior to recordation of the notice of completion, except for warranty work performed under this Article.

Article 12 - Dispute Resolution

- 12.1 Claims.** This Article applies to and provides the exclusive procedures for any Claim arising from or related to the Contract or performance of the Work.

(A) **Definition.** "Claim" means a separate demand by DBE, submitted in writing by registered or certified mail with return receipt requested, for a change in the Contract Time, including a time extension or relief from liquidated damages, or a change in the Contract Price, when the demand has previously been submitted to City in accordance with the requirements of the Contract Documents, and which has been rejected or disputed by City, in whole or in part.

(B) **Limitations.** A Claim may only include the portion of a previously rejected demand that remains in dispute between DBE and City. With the exception of any dispute regarding the amount of money actually paid to DBE as Final Payment, DBE is not entitled to submit a Claim demanding a change in the Contract Time or the Contract Price, which has not previously been submitted to City in full compliance with Article 5 and Article 6, and subsequently rejected in whole or in part by City.

(C) **Scope of Article.** This Article is intended to provide the exclusive procedures for submission and resolution of Claims of any amount, and applies in addition to the provisions of Public Contract Code § 9204 and § 20104 et seq., which are incorporated by reference herein.

(D) **No Work Delay.** Notwithstanding the submission of a Claim or any other dispute between the parties related to the Project or the Contract Documents, DBE must perform the Work and may not delay or cease Work pending resolution of a Claim or other dispute, but must continue to diligently prosecute the performance and timely completion of the Work, including the Work pertaining to the Claim or other dispute.

(E) **Informal Resolution.** DBE will make a good faith effort to informally resolve a dispute before initiating a Claim, preferably by face-to-face meeting between authorized representatives of DBE and City.

- 12.2 Claims Submission.** The following requirements apply to any Claim subject to this Article:

(A) **Substantiation.** The Claim must be submitted to City in writing, clearly identified as a "Claim" submitted pursuant to this Article 12, and must include all of the documents necessary to substantiate the Claim including the Change Order request that was rejected in whole or in part, and a copy of City's written rejection that is in dispute. The Claim must clearly identify and describe the dispute, including relevant references to applicable portions of the Contract Documents, and a chronology of relevant events. Any Claim for additional payment must include a complete, itemized breakdown of all known or estimated labor, materials, taxes, insurance, and subcontract, or other costs.

Substantiating documentation such as payroll records, receipts, invoices, or the like, must be submitted in support of each component of claimed cost. Any Claim for an extension of time or delay costs must be substantiated with a schedule analysis and narrative depicting and explaining claimed time impacts.

(B) **Claim Format and Content.** A Claim must be submitted in the following format:

(1) Provide a cover letter, specifically identifying the submission as a "Claim" submitted under this Article 12, and specifying the requested remedy (e.g., amount of proposed change to Contract Price and/or change to Contract Time).

(2) Provide a summary of each Claim, including underlying facts and the basis for entitlement, and identify each specific demand at issue, including the specific Change Order request (by number and submittal date), and the date of City's rejection of that demand, in whole or in part.

(3) Provide a detailed explanation of each issue in dispute. For multiple issues included within a single Claim or for multiple Claims submitted concurrently, separately number and identify each individual issue or Claim, and include the following for each separate issue or Claim:

a. A succinct statement of the matter in dispute, including DBE's position and the basis for that position;

b. Identify and attach all documents that substantiate the Claim, including relevant provisions of the Contract Documents, calculations, and schedule analysis (see subsection (A), Substantiation, above);

c. A chronology of relevant events; and

d. Analysis and basis for claimed changes to Contract Price, Contract Time, or any other remedy requested.

(4) Provide a summary of issues and corresponding claimed damages. If, by the time of the Claim submission deadline (below), the precise amount of the requested change in the Contract Price or Contract Time is not yet known, DBE must provide a good faith estimate, including the basis for that estimate, and must identify the date by which it is anticipated that the Claim will be updated to provide final amounts.

(5) Include the following certification, executed by DBE's authorized representative:

"The undersigned DBE certifies under penalty of perjury that its statements and representations in this Claim submittal are true and correct. DBE warrants that this Claim submittal is comprehensive and complete as to the matters in dispute, and agrees that any costs, expenses, or delay claim not included herein are deemed waived. DBE understands that submission of a Claim which has no basis in fact or which DBE knows to be false may violate the False Claims Act (Government Code § 12650 et seq.)."

(C) **Submission Deadlines.**

(1) A Claim must be submitted within 15 days following the date that City notified DBE in writing that a request for a change in the Contract Time or Contract Price, duly submitted in compliance with Article 5 and Article 6, has been rejected in whole or in part. This Claim deadline applies even if DBE cannot yet quantify the total amount of any requested change in the Contract Time or Contract Price. If the DBE cannot quantify those amounts, it must submit an estimate of the amounts claimed pending final determination of the requested remedy by DBE.

(2) With the exception of any dispute regarding the amount of Final Payment, any Claim must be filed on or before the date of Final Payment, or will be deemed waived.

(3) A Claim disputing the amount of Final Payment must be submitted within 15 days of the effective date of Final Payment, under Section 8.9, Final Payment.

(4) Strict compliance with these Claim submission deadlines is necessary to ensure that any dispute may be mitigated as soon as possible, and to facilitate cost-efficient administration of the Project. **Any Claim that is not submitted within the specified deadlines will be deemed waived by DBE.**

12.3 City's Response. City will respond within 45 days of receipt of the Claim with a written statement identifying which portion(s) of the Claim are disputed, unless the 45-day period is extended by mutual agreement of City and DBE or as otherwise allowed under Public Contract Code § 9204. However, if City determines that the Claim is not adequately substantiated pursuant to Section 12.2(A), Substantiation, City may first request in writing, within 30 days of receipt of the Claim, any additional documentation supporting the Claim or relating to defenses to the Claim that City may have against the Claim. If DBE fails to submit the additional documentation to City within 15 days of receipt of City's request, the Claim will be deemed waived.

(A) **Additional Information.** If additional information is thereafter required, it may be requested and provided upon mutual agreement of City and DBE. If DBE's Claim is based on estimated amounts, DBE has a continuing duty to update its Claim as soon as possible with information on actual amounts in order to facilitate prompt and fair resolution of the Claim.

(B) **Non-Waiver.** Any failure by City to respond within the times specified above will not be construed as acceptance of the Claim in whole or in part, or as a waiver of any provision of these Contract Documents.

12.4 Meet and Confer. If DBE disputes City's written response, or City fails to respond within the specified time, within 15 days of receipt of City's response, or within 15 days of City's failure to respond within the applicable 45-day time period under Section 12.3, respectively, DBE may notify City of the dispute in writing sent by registered or certified mail, return receipt requested, and demand an informal conference to meet and confer for settlement of the issues in dispute. If DBE fails to dispute City's response in writing within the specified time, DBE's Claim will be deemed waived.

(A) **Schedule Meet and Confer.** Upon receipt of the demand to meet and confer, City will schedule the meet and confer conference to be held within 30 days, or later if needed to ensure the mutual availability of each of the individuals that each party requires to represent its interests at the meet and confer conference.

(B) **Location for Meet and Confer.** The meet and confer conference will be scheduled at a location at or near City's principal office.

(C) **Written Statement After Meet and Confer.** Within ten working days after the meet and confer has concluded, City will issue a written statement identifying which portion(s) of the Claim remain in dispute, if any.

(D) **Submission to Mediation.** If the Claim or any portion remains in dispute following the meet and confer conference, within ten working days after the City issues the written statement identifying any portion(s) of the Claim remaining in dispute, the DBE may identify in writing disputed portion(s) of the Claim, which will be submitted for mediation, as set forth below.

12.5 Mediation and Government Code Claims.

(A) **Mediation.** Within ten working days after the City issues the written statement identifying any portion(s) of the Claim remaining in dispute following the meet and confer, City and DBE will mutually agree to a mediator, as provided under Public Contract Code § 9204. Mediation will be scheduled to ensure the mutual availability of the selected mediator and all of the individuals that each party requires to represent its interests. If there are multiple Claims in dispute, the parties may agree to schedule the mediation to address all outstanding Claims at the same time. The parties will share the costs of the mediator and mediation fees equally, but each party is otherwise solely and separately responsible for its own cost to prepare for and participate in the mediation, including costs for its legal counsel or any other consultants.

(B) **Government Code Claims.**

(1) Timely presentation of a Government Code Claim is a condition precedent to filing any legal action based on or arising from the Contract. Compliance with the Claim submission requirements in this Article 12 is a condition precedent to filing a Government Code Claim.

(2) The time for filing a Government Code Claim will be tolled from the time DBE submits its written Claim pursuant to Section 12.2, above, until the time that Claim is denied in whole or in part at the conclusion of the meet and confer process, including any period of time used by the meet and confer process. However, if the Claim is submitted to mediation, the time for filing a Government Code Claim will be tolled until conclusion of the mediation, including any continuations, if the Claim is not fully resolved by mutual agreement of the parties during the mediation or any continuation of the mediation.

12.6 **Tort Claims.** This Article does not apply to tort claims and nothing in this Article is intended nor will be construed to change the time periods for filing tort-based Government Code Claims.

12.7 **Arbitration.** It is expressly agreed, under Code of Civil Procedure § 1296, that in any arbitration to resolve a dispute relating to this Contract, the arbitrator's award must be supported by law and substantial evidence.

12.8 **Burden of Proof and Limitations.** DBE bears the burden of proving entitlement to and the amount of any claimed damages. DBE is not entitled to damages calculated on a total cost basis, but must prove actual damages. DBE is not entitled to speculative, special, or consequential damages, including home office overhead or any form of overhead not directly incurred at the Project site or any other Worksite; lost profits; loss of productivity; lost opportunity to work on other projects; diminished bonding capacity; increased cost of

financing for the Project; extended capital costs; non-availability of labor, material or equipment due to delays; or any other indirect loss arising from the Contract. The Eichleay Formula or similar formula will not be used for any recovery under the Contract. The City will not be directly liable to any Subcontractor or supplier.

- 12.9 Legal Proceedings.** In any legal proceeding that involves enforcement of any requirements of the Contract Documents, the finder of fact will receive detailed instructions on the meaning and operation of the Contract Documents, including conditions, limitations of liability, remedies, claim procedures, and other provisions bearing on the defenses and theories of liability. Detailed findings of fact will be requested to verify enforcement of the Contract Documents. All of the City's remedies under the Contract Documents will be construed as cumulative, and not exclusive, and the City reserves all rights to all remedies available under law or equity as to any dispute arising from or relating to the Contract Documents or performance of the Work.
- 12.10 Other Disputes.** The procedures in this Article 12 will apply to any and all disputes or legal actions, in addition to Claims, arising from or related to this Contract, including disputes regarding suspension or early termination of the Contract, unless and only to the extent that compliance with a procedural requirement is expressly and specifically waived by City. Nothing in this Article is intended to delay suspension or termination under Article 13.

Article 13 - Suspension and Termination

- 13.1 Suspension for Cause.** In addition to all other remedies available to City, if DBE fails to perform or correct Work in accordance with the Contract Documents, including non-compliance with applicable environmental or health and safety Laws, City may immediately order the Work, or any portion of it, suspended until the circumstances giving rise to the suspension have been eliminated to City's satisfaction.
- (A) **Failure to Comply.** DBE will not be entitled to an increase in the Contract Time or Contract Price for a suspension occasioned by DBE's failure to comply with the Contract Documents.
- (B) **No Duty to Suspend.** City's right to suspend the Work will not give rise to a duty to suspend the Work, and City's failure to suspend the Work will not constitute a defense to DBE's failure to comply with the requirements of the Contract Documents.
- 13.2 Suspension for Convenience.** City reserves the right to suspend, delay, or interrupt the performance of the Work in whole or in part, for a period of time determined to be appropriate for City's convenience. Upon notice by City pursuant to this provision, DBE must immediately suspend, delay, or interrupt the Work and secure the Project site as directed by City except for taking measures to protect completed or in progress Work as directed in the suspension notice. The Contract Price and the Contract Time will be equitably adjusted by Change Order pursuant to the terms of Article 5 and 6 to reflect the cost and delay impact occasioned by such suspension for convenience, except to the extent that any such impacts were caused by DBE's failure to comply with the Contract Documents or the terms of suspension notice. However, the time for completing the Project will only be extended if the suspension causes or will cause delay in Final Completion. If DBE disputes the terms of a Change Order issued for such equitable adjustment due to suspension, its sole recourse is to comply with the Claim procedures in Article 12.

13.3 Termination for Default. City may declare that DBE is in default of the Contract for a material breach of or inability to fully, promptly, or satisfactorily perform its obligations under the Contract.

(A) **Default.** Events giving rise to a declaration of default include DBE's refusal or failure to supply sufficient skilled workers, proper materials, or equipment to perform the Work within the Contract Time; DBE's refusal or failure to make prompt payment to its employees, Subcontractors, or suppliers or to correct defective Work or damage; DBE's failure to comply with Laws, or orders of any public agency with jurisdiction over the Project; evidence of DBE's bankruptcy, insolvency, or lack of financial capacity to complete the Work as required within the Contract Time; suspension, revocation, or expiration and nonrenewal of Contractor's license or DIR registration; dissolution, liquidation, reorganization, or other major change in DBE's organization, ownership, structure, or existence as a business entity; unauthorized assignment of DBE's rights or duties under the Contract; or any material breach of the Contract requirements.

(B) **Notice of Default and Opportunity to Cure.** Upon City's declaration that DBE is in default due to a material breach of the Contract Documents, if City determines that the default is curable, City will afford DBE the opportunity to cure the default within ten days of City's notice of default, or within a period of time reasonably necessary for such cure, including a shorter period of time if applicable.

(C) **Termination.** If DBE fails to cure the default or fails to expediently take steps reasonably calculated to cure the default within the time period specified in the notice of default, City may issue written notice to DBE and its surety of City's termination of the Contract for default.

(D) **Waiver.** Time being of the essence in the performance of the Work, if DBE's surety fails to arrange for completion of the Work in accordance with the Performance Bond within seven calendar days from the date of the notice of termination, DBE's surety will be deemed to have waived its right to complete the Work under the Contract, and City may immediately make arrangements for the completion of the Work through use of its own forces, by hiring a replacement contractor, or by any other means that City determines advisable under the circumstances. DBE and its surety will be jointly and severally liable for any additional cost incurred by City to complete the Work following termination, where "additional cost" means all cost in excess of the cost City would have incurred if DBE had timely completed Work without the default and termination. In addition, City will have the right to immediate possession and use of any materials, supplies, and equipment procured for the Project and located at the Project site or any Worksite on City property for the purposes of completing the remaining Work

(E) **Compensation.** Within 30 days of receipt of updated as-builts, all warranties, manuals, instructions, or other required documents for Work installed to date, and delivery to City of all equipment and materials for the Project for which DBE has already been compensated, DBE will be compensated for the Work satisfactorily performed in compliance with the Contract Documents up to the effective date of the termination pursuant to the terms of Article 8, Payment, subject to City's rights to withhold or deduct sums from payment otherwise due pursuant to Section 8.4, and excluding any costs DBE incurs as a result of the termination, including any cancellation or restocking charges or fees due to third parties. If DBE disputes the amount of compensation determined by City, its sole recourse is to comply with the Claim Procedures in Article 12, by submitting a Claim no later than 30 days following notice from City of the total compensation to be paid by City.

(F) **Wrongful Termination.** If DBE disputes the termination, its sole recourse is to comply with the Claim procedures in Article 12. If a court of competent jurisdiction or an

arbitrator later determines that the termination for default was wrongful, the termination will be deemed to be a termination for convenience, and DBE's damages will be strictly limited to the compensation provided for termination for convenience under Section 13.4, below. DBE waives any claim for any other damages for wrongful termination including special or consequential damages, lost opportunity costs, or lost profits, and any award of damages is subject to Section 12.8, Burden of Proof and Limitations.

13.4 Termination for Convenience. City reserves the right to terminate all or part of the Contract for convenience upon written notice to DBE.

(A) **Compensation to DBE.** In the event of City's termination for convenience, DBE waives any claim for damages, including for loss of anticipated profits from the Project. The following will constitute full and fair compensation to DBE, and DBE will not be entitled to any additional claim or compensation:

(1) *Completed Work.* The value of its Work satisfactorily performed as of the date notice of termination is received, based on DBE's schedule of values and unpaid costs for items delivered to the Project site that were fabricated for incorporation in the Work;

(2) *Demobilization.* Demobilization costs specified in the schedule of values, or if demobilizations cost were not provided in a schedule of values, then based on actual, reasonable, and fully documented demobilization costs; and

(3) *Termination Markup.* Five percent of the total value of the Work performed as of the date of notice of termination, including reasonable, actual, and documented costs to comply with the direction in the notice of termination for convenience, and demobilization costs, which is deemed to cover all overhead and profit to date.

(B) **Disputes.** If DBE disputes the amount of compensation determined by City pursuant to paragraph (A), above, its sole recourse is to comply with the Claim procedures in Article 12, by submitting a Claim no later than 30 days following notice from City of total compensation to be paid by City.

13.5 Actions Upon Termination for Default or Convenience. The following provisions apply to any termination under this Article, whether for default or convenience, and whether in whole or in part.

(A) **General.** Upon termination City may immediately enter upon and take possession of the Project and the Work and all tools, equipment, appliances, materials, and supplies procured or fabricated for the Project. DBE will transfer title to and deliver all completed Work and all Work in progress to City.

(B) **Submittals.** Unless otherwise specified in the notice of termination, DBE must immediately submit to City all designs, drawings, as-built drawings, Project records, contracts with vendors and Subcontractors, manufacturer warranties, manuals, and other such submittals or Work-related documents required under the terms of the Contract Documents, including incomplete documents or drafts.

(C) **Close Out Requirements.** Except as otherwise specified in the notice of termination, DBE must comply with all of the following:

(1) Immediately stop the Work, except for any Work that must be completed pursuant to the notice of termination and comply with City's instructions for cessation of labor and securing the Project and any other Worksite(s).

(2) Comply with City's instructions to protect the completed Work and materials, using best efforts to minimize further costs.

(3) DBE must not place further orders or enter into new subcontracts for materials, equipment, services or facilities, except as may be necessary to complete any portion of the Work that is not terminated.

(4) As directed in the notice, DBE must assign to City or cancel existing subcontracts that relate to performance of the terminated Work, subject to any prior rights, if any, of the surety for DBE's performance bond, and settle all outstanding liabilities and claims, subject to City's approval.

(5) As directed in the notice, DBE must use its best efforts to sell any materials, supplies, or equipment intended solely for the terminated Work in a manner and at market rate prices acceptable to City.

(D) **Payment Upon Termination.** Upon completion of all termination obligations, as specified herein and in the notice of termination, DBE will submit its request for Final Payment, including any amounts due following termination pursuant to this Article 13. Payment will be made in accordance to the provisions of Article 8, based on the portion of the Work satisfactorily completed, including the close out requirements, and consistent with the previously submitted schedule of values and unit pricing (as applicable), including demobilization costs. Adjustments to Final Payment may include deductions for the cost of materials, supplies, or equipment retained by DBE; payments received for sale of any such materials, supplies, or equipment, less re-stocking fees charged; and as otherwise specified in Section 8.4, Adjustment of Payment Application.

(E) **Continuing Obligations.** Regardless of any Contract termination, DBE's obligations for portions of the Work already performed will continue and the provisions of the Contract Documents will remain in effect as to any claim, indemnity obligation, warranties, guarantees, submittals of as-built drawings, instructions, or manuals, record maintenance, or other such rights and obligations arising prior to the termination date.

Article 14 - Miscellaneous Provisions

14.1 Assignment of Unfair Business Practice Claims. Under Public Contract Code § 7103.5, DBE and its Subcontractors agree to assign to City all rights, title, and interest in and to all causes of action it may have under § 4 of the Clayton Act (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 (commencing with § 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the Contract or any subcontract. This assignment will be effective at the time City tenders Final Payment to DBE, without further acknowledgement by the parties.

14.2 Provisions Deemed Inserted. Every provision of law required to be inserted in the Contract Documents is deemed to be inserted, and the Contract Documents will be construed and enforced as though such provision has been included. If it is discovered that through mistake or otherwise that any required provision was not inserted, or not correctly inserted, the Contract Documents will be deemed amended accordingly.

14.3 Waiver. City's waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of the Contract Documents will not be effective unless it is in writing and signed by City. City's waiver of any breach, failure, right, or remedy will not be deemed a waiver of any other breach, failure, right, or remedy,

whether or not similar, nor will any waiver constitute a continuing waiver unless specified in writing by City.

- 14.4 Titles, Headings, and Groupings.** The titles and headings used and the groupings of provisions in the Contract Documents are for convenience only and may not be used in the construction or interpretation of the Contract Documents or relied upon for any other purpose.
- 14.5 Statutory and Regulatory References.** With respect to any amendments to any statutes or regulations referenced in these Contract Documents, the reference is deemed to be the version in effect on the date that that bids were due.
- 14.6 Survival.** The provisions that survive termination or expiration of this Contract include Contract Section 9, Notice, and subsections 10.1, 10.2, 10.3, 10.4, 10.5, and 10.6, of Section 10, General Provisions; and the following provisions in these General Conditions: Section 2.4(J), DBE's Records, Section 2.3(D), Ownership of Documents, Section 2.5(C), Termination, Section 4.2, Indemnity and Liability, Article 12, Dispute Resolution, and Section 11.2, Warranty.

END OF GENERAL CONDITIONS

Special Conditions

1. **Work Days and Hours.** Work hours and noise pose a special concern for projects in residential neighborhoods. The City is very concerned for its residents and will diligently enforce the restrictions below.
 - 1.1 **Work Hours.** 7:00 a.m.-5:00 p.m. local time, weekdays, 9:00 a.m. – 5:00 p.m. on Saturdays, 9:00 – 4:00 p.m. Sundays.
 - 1.2 **Equipment and Material Delivery and Off-Haul Hours.** No equipment or material may be delivered or off-hauled except between the hours of 7:00 a.m. and 5:00 p.m. No equipment that has a safety back up beeper may be operated before 7:00 a.m. on any day.
 - 1.3 **Work Days Only.** Work will only be performed on Work Days, as defined in the General Conditions, unless DBE requests otherwise from City in writing at least 2 working days in advance, and City approves the request in its sole discretion.
 - 1.4 **Connections to Existing Facilities.** Unless otherwise specified or indicated, DBE will make all necessary connections to existing facilities, including structures, drain lines, and utilities such as water, sewer, gas, telephone, and electric. In each case, DBE will receive permission from City or the owning utility prior to undertaking connections and coordinate as needed to accommodate the facilities operations. DBE will protect facilities against deleterious substances and damage.
 - 1.5 **Road Shutdown.** DBE will execute the Work while roads are in operation except for the periods of permitted shutdown. For shutdown periods, DBE will prepare and submit a detailed plan that includes shutdown schedule, planned sequence of work, milestones and projected times of completions of activities, any anticipated problems, DBE's supervisory personnel, actions desired of City and staff, and contingency plans. DBE will allow sufficient time for review and re-submittal of the shutdown plan until acceptable to City. DBE will employ sufficient labor, superintendence, and equipment on a 24-hour, 7 days a week basis during shutdown and other operational disruptions to complete Work within the specified periods at no additional cost to the City. Once initiated, Work may proceed on extra shift or around-the-clock basis as necessary. When required to minimize treatment process interruptions while complying with specified sequencing constraints, DBE will provide power, lighting, controls, instrumentation, and safety devices.
 - 1.6 **Noise Limitation.** No non-construction noise will be allowed, this includes amplified music, radio or other noise not due to construction activities.
2. **Lines and Grades Verification.** All Work must be done to the lines, grades, and elevations indicated on the Plans and Specifications, and in accordance with all applicable Laws. DBE is required to verify forms and other work comply with lines, grades and elevations. Prior to pouring or placing any concrete or asphalt, DBE must have a California licensed land surveyor or civil engineer field verify lines, grades and elevations prior to proceeding with the placement of concrete or asphalt. The land surveyor or civil engineer must have at least five years of relevant experience, and must be acceptable to the City. DBE must provide City verification of the licensing and experience for each proposed land surveyor or civil engineer. DBE must provide City with inspection results for form and grade work. DBE must remedy any non-compliant Work at no additional cost to City.

3. **Parking Restrictions.** DBE and Subcontractors will direct their respective workers to park in the locations identified for Contractor parking in the Bridging Documents or other appropriate off-site locations, including public parking facilities or public streets adjacent to or near the Project site, in compliance with applicable parking restrictions and requirements, and without blocking driveways and access.
4. **Pre-Construction Conference.** City will designate a date and time for a pre-construction conference with DBE following City's approval of the final Construction Documents. Project administration procedures and coordination between City and DBE will be discussed, and DBE must present City with the following information or documents at the meeting for City's review and acceptance before the Work commences:
 - 4.1 Name, 24-hour contact information, and qualifications of the proposed on-site superintendent;
 - 4.2 List of all key Project personnel and their complete contact information, including email addresses and telephone numbers during regular hours and after hours;
 - 4.3 Staging plans that identify the sequence of the Work, including any phases and alternative sequences or phases, with the goal of minimizing the impacts on residents, businesses and other operations in the Project vicinity;
 - 4.4 If required, traffic control plans associated with the staging plans that are signed and stamped by a licensed traffic engineer;
 - 4.5 Draft baseline schedule for the Work as required under Section 5.2 of the General Conditions, to be finalized within 10 days after City's approval of the final Construction Documents;
 - 4.6 Breakdown of lump sum bid items, to be used for determining the value of Work completed for future progress payments to DBE;
 - 4.7 Schedule with list of Project submittals that require City review, and list of the proposed material suppliers;
 - 4.8 Plan for coordination with affected utility owner(s) and compliance with any related permit requirements;
 - 4.9 Videotape and photographs recording the conditions throughout the pre-construction Project site, showing the existing improvements and current condition of the curbs, gutters, sidewalks, signs, landscaping, streetlights, structures near the Project such as building faces, canopies, shades and fences, and any other features within the Project area limits;
 - 4.10 If requested by City, DBE's cash flow projections; and
 - 4.11 Any other documents specified in the Special Conditions or Notice of Award.
5. **Construction Manager Role and Authority.** Nova Partners, Inc. is the Construction Manager for this Project. The Construction Manager will assist City in the management of the construction of the Project. The Construction Manager may perform services in the areas of supervision and coordination of the work of DBE and/or other contractors, scheduling the Work, monitoring the progress of the Work, providing City with evaluations and recommendations concerning the quality of the Work, recommending the approval of progress payments to DBE, or other services for the Project in accordance with the Construction Manager's contract with City.

- 5.1 Communications.** DBE must submit all notices and communications relating to the Work directly to the Construction Manager in writing, as follows:

Nova Partners, Inc.
Alexander Catherwood
Alexander@novapartners.com
(924) 294.9594

With a copy to the Project Manager
Alex Acenas
Public Works
AlexA@cupertino.org
(408) 777.3232

- 5.2 On-Site Management and Communication Procedures.** The Construction Manager will provide and maintain a management team on the Project site to provide contract administration as an agent of City and will establish and implement coordination and communication procedures among City, the Design Professional, DBE, and others.
- 5.3 Contract Administration Procedures.** The Construction Manager will establish and implement procedures for reviewing and processing requests for clarifications and interpretations of the Contract Documents, Shop Drawings, samples, other submittals, schedule adjustments, Change Order proposals, written proposals for substitutions, payment applications, and maintenance of logs.
- 5.4 Pre-Construction Conference.** DBE will attend the pre-construction conference, during which the Construction Manager will review the Contract administration procedures and Project requirements.
- 5.5 DBE's Construction Schedule.** The Construction Manager will review DBE's construction schedules and will verify that each schedule is prepared in accordance with the requirements of the Contract Documents.
- 6. Notification of Residents, Schools and Businesses.** DBE will notify, in writing, residents, businesses and schools within a 300 foot radius of Project limits at a minimum of two times prior to start of construction. The first notice shall be given to all residents, businesses and schools within the Project area **five working days** prior to any construction operation. The second notice shall be given to residents, businesses and schools **two working days** prior to any construction operation. Both notices shall be in writing and submitted to the Engineer for review and approval. Sample notice is below.

Notices shall include the Project name, describe the nature and duration of the DBE's operations, and provide a telephone number at which a DBE representative may be contacted **24 hour per day** for problems or emergencies encountered by residents and/or businesses. Answering machines and voice mail shall not be permitted. The notice will also contain the City's Construction Management contact information.

A separate notice shall be given at least **two working days** prior to any anticipated service/utility disruption or temporary closure of access to any driveway. The notice shall indicate the duration of the disruption. DBE shall submit a written request to the Engineer regarding the temporary closure of access to any driveway. No driveway

access shall be closed by the DBE at any time without prior written authorization from the Engineer.

If construction operations are delayed for any reason beyond the duration stipulated in the notices, DBE shall re-issue written notices that explain the delay and provide a revised schedule.

All written notices to residents, schools, businesses, agencies, etc. shall be submitted to the City for review and approval. Provide the City with a schedule of the notification deliveries so that the City can confirm that the notification was completed.

Payment for compliance with this section shall be deemed included in the various other items of work, and no additional compensation will be allowed therefore.

SAMPLE NOTICE:

NOTICE TO RESIDENTS / BUSINESS OWNERS

Date: [MONTH] [DAY], [YEAR]

Subject: [NAME OF PROJECT] – [One Week OR Two Day] Notice

This notice is to inform you that the City of Cupertino, Department of Public Works, has contracted with [DBE NAME] to [SCOPE OF WORK] along [STREET NAME] from [ADJACENT CROSS STREET] to [ADJACENT CROSS STREET].

This [SCOPE OF WORK] will mainly occur on [WEEKDAYS, SEE “SCHEDULE OFWORKING DAYS/HOURS”] from [START TIME] to [END TIME] and is scheduled to start in your area **APPROXIMATELY seven days from the date of this notice and will continue from [START DATE] until [END DATE]**. Please be aware that there may be construction activities that cause traffic delays.

[DBE NAME] will make every effort to maintain normal traffic access and minimize disruption in your neighborhood. No Parking / Tow-Away signs will be posted in affected areas two working days in advance of enforcement. Access to driveways will be maintained at ALL times during the construction.

Prior to activities in your immediate area, you will be sent a notification **TWO WORKING DAYS** before work begins. [DBE NAME] and the City of Cupertino, Department of Public Works, apologize for any inconvenience due to these activities. If you have any questions or need assistance as these activities progress, please call the number(s) listed below:

[DBE NAME]

[NAME OF PROJECT MANAGER, DBE)

Project Manager

(XXX) XXX-XXXX (24-hour number)

City of Cupertino

(NAME OF CONSTRUCTION MANAGEMENT FIRM IF ONE)

(PERSON'S NAME FROM CONSTRUCTION MANAGEMENT FIRM)

(XXX) XXX-XXXX (24-hour number)

City Office: (408)777-3354 Department of Public Works

Thank you for your patience and cooperation,
[NAME OF PROJECT MANAGER, DBE], Project Manager
[NAME OF CONSTRUCTION FIRM]

7. **Pandemic Health Laws.** DBE's duty to comply with Laws includes compliance by the DBE team, including all Subconsultants and Subcontractors, with all local, state, or federal Laws that have been or may be enacted in response to the Covid-19 pandemic (collectively, "Health Laws"), which include the County of Santa Clara Health Order dated May 18, 2020 (and updated on June 5, 2020) and Appendix B-1 , including any subsequent amendments thereto (the "Health Order"). Failure to fully comply with the Health Laws constitutes a material default, subject to all available remedies including suspension or termination.

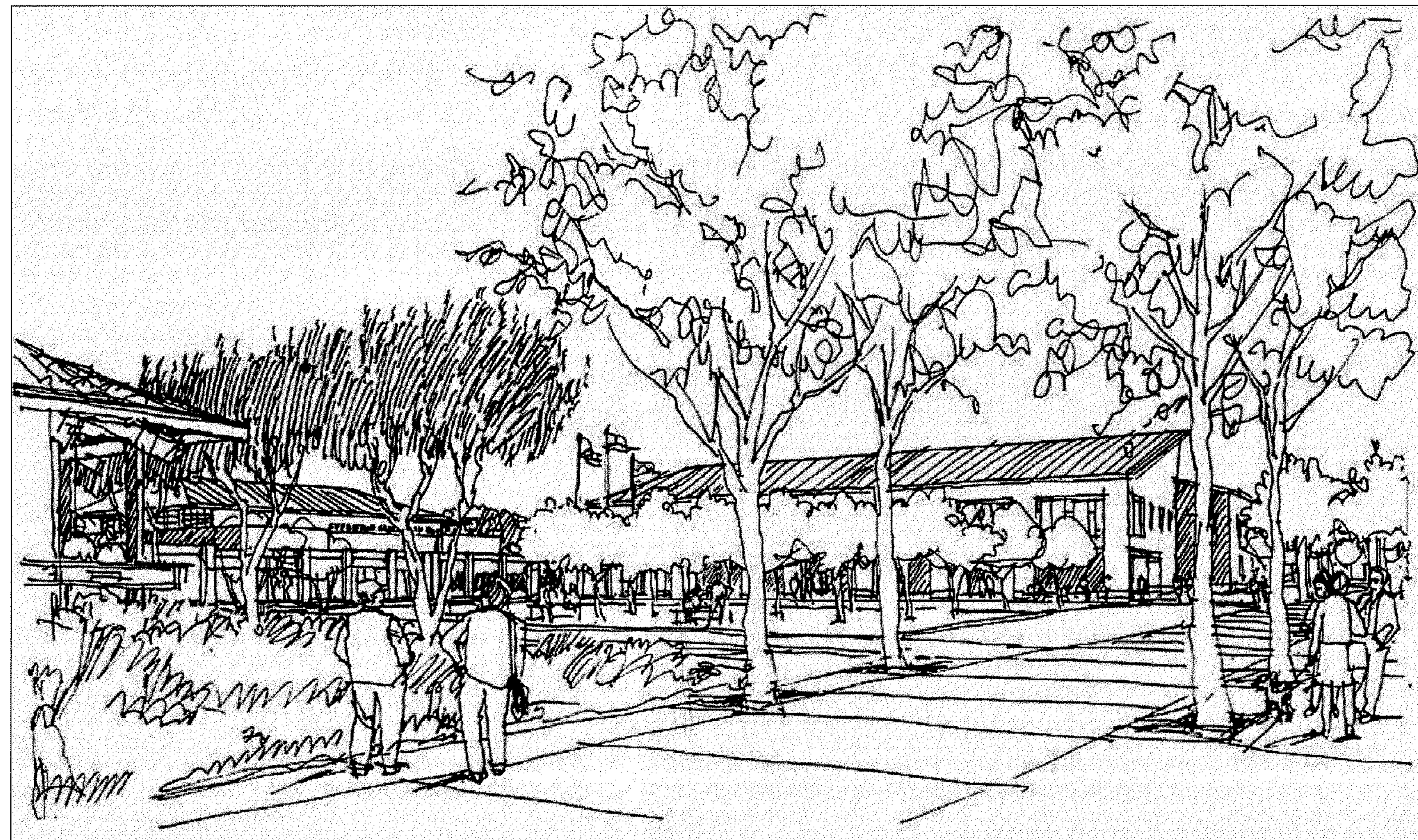
END OF SPECIAL CONDITIONS

APPENDIX 4

RECORD DRAWINGS OF EXISTING LIBRARY

CITY OF CUPERTINO CIVIC CENTER AND LIBRARY PROJECT

PHASE 2
BID SET
PROJECT NO. 2003-9222
18 APRIL 2003



APPROVED BY:

RALPH A. QUALLS, JR. RCE 22046 9/30/05
DIRECTOR OF PUBLIC WORKS

DATE

APPROVED BY:

MELINDA CERVANTES, DEPUTY COUNTY LIBRARIAN
SANTA CLARA COUNTY LIBRARY

DATE

DRAWING LIST

CONSTRUCTION BEST MANAGEMENT PRACTICES
1 SURVEY (NIC, FOR INFORMATION ONLY)
2 SURVEY (NIC, FOR INFORMATION ONLY)

A0.01 PROJECT DESCRIPTION
A0.02 LIBRARY EGRESS PLANS
A0.03 COMMUNITY HALL EGRESS PLANS
A0.04 ACCESSIBILITY PLANS
A0.05 ACCESSIBILITY STANDARDS
A0.06 LIBRARY TITLE 24 COMPLIANCE
A0.07 COMMUNITY HALL TITLE 24 COMPLIANCE

CIVIL

C1.0 CIVIL DEMOLITION PLAN
C2.0 HORIZONTAL CONTROL PLAN
C3.0 GRADING PLAN
C4.0 STORM DRAIN & SANITARY SEWER PLAN
C5.0 WATER PLAN
C6.0 CONSTRUCTION DETAILS
C6.1 CONSTRUCTION DETAILS
C7.0 EROSION CONTROL PLAN

LANDSCAPE

L0.0 LANDSCAPE NOTES, ABBREVIATIONS & LEGEND
L0.1 LANDSCAPE DEMOLITION PLAN
L1.0 LANDSCAPE OVERALL SITE PLAN
L2.0 LANDSCAPE MATERIALS AND FURNITURE PLAN
L2.05 LANDSCAPE GRADING PLAN
L2.1 LANDSCAPE HORIZONTAL CONTROL PLAN
L2.2 LANDSCAPE JOINT PATTERNING PLAN
L2.3 LANDSCAPE SITE LIGHTING LAYOUT PLAN
L2.4 LANDSCAPE STRUCTURAL SOIL PLAN
L2.5 LANDSCAPE PLANTING LIST
L2.6 LANDSCAPE PLANTING PLAN
L3.0 LANDSCAPE DETAIL PLAN-1
L3.1 LANDSCAPE DETAIL PLAN-2
L3.2 LANDSCAPE DETAIL PLAN-3
L4.0 LANDSCAPE DETAIL HARDSCAPE
L4.1 LANDSCAPE DETAIL PLANTING-1
L4.2 LANDSCAPE DETAIL PLANTING-2
L4.3 LANDSCAPE DETAIL FURNITURE-1
L4.4 LANDSCAPE DETAIL FURNITURE-2
L5.0 LANDSCAPE FOUNTAIN LAYOUT
L5.1 LANDSCAPE DETAIL VAULT
L5.2 LANDSCAPE DETAIL FOUNTAIN
F1.0 FOUNTAIN MECHANICAL DETAIL
F1.1 FOUNTAIN ELECTRICAL DETAIL
I1.1 IRRIGATION PLAN
I1.2 IRRIGATION NOTES & LEGEND
I1.3 IRRIGATION DETAILS

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A2.01 ARCADE PLAN
A2.02 ARCADE EXTERIOR ELEVATIONS
A2.03 ARCADE ENLARGED EXTERIOR ELEVATIONS
A2.04 ARCADE DETAILS
A2.05 TRASH ENCLOSURE
A2.06 SITE WALLS
A2.10 LIBRARY FIRST FLOOR PLAN
A2.11 LIBRARY SECOND FLOOR PLAN
A2.12 LIBRARY CLERESTORY & ROOF PLAN
A2.13 LIBRARY HIGH ROOF PLAN
A2.14 LIBRARY EXTERIOR SOFFIT PLAN
A2.20 COMMUNITY HALL FLOOR PLAN
A2.21 COMMUNITY HALL ROOF PLAN
A2.22 COMMUNITY HALL HIGH ROOF PLAN
A3.01 LIBRARY EXTERIOR ELEVATIONS
A3.02 LIBRARY EXTERIOR ELEVATIONS
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A3.04 LIBRARY EXTERIOR ELEVATIONS
A3.05 LIBRARY EXTERIOR ELEVATIONS
A3.06 LIBRARY EXTERIOR ELEVATIONS
A3.10 LIBRARY BUILDING SECTIONS
A3.11 LIBRARY BUILDING SECTIONS
A3.20 COMMUNITY HALL EXTERIOR ELEVATIONS
A3.21 COMMUNITY HALL EXTERIOR ELEVATIONS
A3.22 COMMUNITY HALL EXTERIOR ELEVATIONS
A3.30 COMMUNITY HALL BUILDING SECTIONS
A3.31 COMMUNITY HALL BUILDING SECTIONS
A4.00 LIBRARY-ENLARGED PLANS & INTERIOR
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ELEVATIONS-TOILETS
A4.02 COMMUNITY HALL-ENLARGED PLANS &
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A4.03 COMMUNITY HALL-ENLARGED PLAN-DAIS & DESK
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A7.01 VERTICAL CIRCULATION STAIRS
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A7.03 STAIR DETAILS
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A8.01 LIBRARY WALL SECTIONS
A8.02 LIBRARY WALL SECTIONS
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A9.08 WINDOW DETAILS
A9.09 WINDOW DETAILS
A9.10 WINDOW, DOOR, AND LOUVER DETAILS
A9.11 WINDOW, DOOR, AND LOUVER DETAILS
A9.15 INTERIOR WINDOW SCHEDULE & DETAILS

A10.00 ROOM FINISH SCHEDULE
A10.01 CASEWORK DETAILS
A10.01A CASEWORK DETAILS
A10.02 CASEWORK DETAILS
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A10.04 CASEWORK DETAILS
A10.05 CEILING DETAILS
A10.06 INTERIOR DETAILS

A10.06A ENLARGED PLAN & DETAILS - AQUARIUM LIFE
SUPPORT SYSTEM RM. & ELEVATOR A VESTIBULE
A10.07 INTERIOR DETAILS
A10.08 INTERIOR DETAILS
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A10.10 LIBRARY FIRST FLOOR FINISH PLAN
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A10.20 COMMUNITY HALL FIRST FLOOR FINISH PLAN

A12.10 LIBRARY FIRST FLOOR STACK PLAN
A12.11 LIBRARY SECOND FLOOR STACK PLAN
A12.12 BOOKSTACK CASEWORK ELEVATIONS
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A12.20 LIBRARY FIRST FLOOR POWER/DATA LOCATIONS
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S2.02 LIBRARY SECOND FLOOR FRAMING PLAN
S2.03 LIBRARY ROOF FRAMING PLAN
S2.04 COMMUNITY HALL FOUNDATION PLAN
S2.05 COMMUNITY HALL HIGH AND
LOW ROOF FRAMING PLANS
S2.06 TRASH ENCLOSURE DETAILS
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S3.04 COMMUNITY HALL - SECTIONS
S3.05 COMMUNITY HALL - ELEVATIONS
S4.01 TYPICAL CONCRETE MASONRY UNIT DETAILS
S5.01 TYPICAL CONCRETE DETAILS
S5.02 CONCRETE DETAILS
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S7.01 TYPICAL STEEL DETAILS
S7.02 TYPICAL METAL DECK DETAILS
S7.03 TYPICAL METAL DECK DETAILS
S7.04 BRACED FRAME DETAILS
S7.05 STEEL DETAILS
S7.06 TYPICAL MOMENT FRAME DETAILS
S7.07 LIBRARY - DETAILS
S7.08 LIBRARY - DETAILS
S7.09 TYPICAL STEEL STAIR DETAILS
S7.11 COMMUNITY HALL - DETAILS
S7.12 COMMUNITY HALL - DETAILS
S7.13 ADDED DETAILS
S9.01 WOOD DETAILS

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M1.10 SCHEDULES
M1.20 SCHEDULES AND TITLE 24
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M4.10 FLOW DIAGRAM
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M5.20 CONTROL DIAGRAMS

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P0.01 PLUMBING LEGEND AND ABBREVIATIONS
P0.02 PLUMBING SCHEDULES
P2.00 PLUMBING SITE PLAN
P2.10 LIBRARY FIRST FLOOR PLUMBING PLAN
P2.11 LIBRARY SECOND FLOOR PLUMBING PLAN
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P2.20 COMMUNITY HALL PLUMBING FLOOR PLAN
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E0.02 LIBRARY-TITLE 24 COMPLIANCE
E0.03 COMMUNITY HALL-TITLE 24 COMPLIANCE
E0.04 LUMINAIRE AND LIGHTING SCHEDULES
E0.05 EQUIPMENT CONNECTIONS PANELBOARD SCHEDULES
E0.06 PANELBOARD SCHEDULES
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EA1.00 ELECTRICAL FOR AUDIOVISUAL: COVER SHEET
EA1.01 ELECTRICAL FOR AUDIOVISUAL: COMMUNITY HALL
ROOM C101
EA1.02 ELECTRICAL FOR AUDIOVISUAL: COMMUNITY HALL PLANS
EA1.03 ELECTRICAL FOR AUDIOVISUAL: CONDUIT FOR
ROOMS C108, C111, C115, C116
EA1.04 ELECTRICAL FOR AUDIOVISUAL: BUILDING EXTERIOR
AND SITE
EA1.05 ELECTRICAL FOR AUDIOVISUAL: CITY HALL AV ROOM

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AL1.01 LIGHTING DETAILS

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T0.01 TELECOM/SECURITY LEGEND AND ABBREVIATIONS
T1.10 TELECOM SITE PLAN
SE2.10 LIBRARY FIRST FLOOR SECURITY PLAN
SE2.11 LIBRARY SECOND FLOOR SECURITY PLAN
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T2.10 LIBRARY FIRST FLOOR TELECOM PLAN
T2.10-5 LIBRARY 1ST FLR. TELECOM OUTLET SCHEDULE
T2.11 LIBRARY 2ND FLR. TELECOM OUTLET SCHEDULE
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T2.20 COMMUNITY HALL TELECOM PLAN
T2.30 LIBRARY FIRST FLOOR PA PLAN
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T5.13 TELECOM / SECURITY DETAILS
T5.14 TELECOM / SECURITY DETAILS
T5.15 TELECOM / SECURITY DETAILS
T5.16 PA-BACKGROUND MUSIC FUNCTIONAL DIAGRAM

2004.02.04 CCD NO. 7.5

11-29-04 Updated
Contract Documents

SMWM

989 Market Street, 3rd Floor, San Francisco, CA 94103

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 397 0700 T
415 397 0800 F

Flack & Kurtz
343 Sansome St., Ste 450
San Francisco, CA 94104
415 495 4085 T
415 433 5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94103
415 495 4085 T
415 495 4660 F

Charles M. Salter
Associates, Inc.
2880 Zanker Road, Ste. 203
San Jose, CA 95134
408 432 7270 T
408 432 7235 F

architecture
interiors
planning
graphic design

WWW.SMWM.COM
415 546 0400 T
415 882 7098 F

In the Santa Clara Valley, storm drains flow directly to our local creeks, and on to San Francisco Bay, with no treatment.

Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or bays.

Proper management of construction sites reduces pollution significantly.

This sheet summarizes the "Best Management Practices" (BMPs) for storm water pollution prevention.

ORDINANCE OF THE CITY OF CUPERTINO FOR NONPOINT SOURCE POLLUTION & WATERCOURSE PROTECTION: Chapter 9.18

9.18.040 Discharge into the storm drain prohibited

It is unlawful to discharge, or cause, allow, or permit to be discharged into any storm drain or natural outlet or channel all waste, including but not restricted to, sewage, industrial wastes, petroleum products, coal tar or any refuse substance arising from the manufacture of gas from coal or petroleum, chemicals, detergents, solvents, paints, contaminated or chlorinated swimming pool water, pesticides, herbicides and fertilizers.

9.18.090 Violation

Any person who violates any provision of this chapter is guilty of a misdemeanor and upon conviction thereof shall be punished as provided in Chapter 1.12 of this code

9.19.100 Civil penalty for violation

Any person who violates any provision of this chapter or any provision of any permit issued pursuant to this chapter shall be civilly liable to the City in a sum not to exceed the amounts provided for in Government Code Section 54740 and/or 54740.5 [up to \$25,000 per day per violation]. The City may petition the Superior Court pursuant to Government Code Section 54740 to impose, assess and recover such sums. The civil penalty provided in this section is cumulative and not exclusive, and shall be in addition to all other remedies available to the city under State and Federal law and local ordinances. Funds collected pursuant to this section shall be paid to City's Environmental Management Account.

9.19.101 Civil penalty for illicit discharges

Any person who discharges pollutants, in violation of this chapter, by the use of illicit connections shall be civilly liable to the City in a sum not to exceed twenty-five thousand dollars per day per violation for each day in which such violation occurs. The City may petition the Superior Court pursuant to Government Code Section 54740 to impose, assess and recover such sums. The civil penalty provided in this section is cumulative and not exclusive, and shall be in addition to all other remedies available to the City under State and Federal law and local ordinances. Funds collected pursuant to this section shall be paid to City's Environmental Storm Management Account.

Cupertino Building Dept: 408-777-3228
Public Works Dept: 408-777-3354
Santa Clara County Recycling Hotline: 800-533-8414
www.reducewaste.org
www.recyclestuff.com
Small Business Hazardous Waste: 408-299-7300
Cupertino Sanitary Sewer Distr: 408-253-7071
Santa Clara Valley Urban Runoff Pollution Prevention Prgm: 800-794-2482
State Office of Emergency Services: 1-800-852-7550 (24 hrs)
Report spills to 911

General Construction and Site Supervision

Storm Drain Pollution from Construction Activities

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay. As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

General Principles

- Keep an orderly site and ensure good housekeeping practices are used.
- Maintain equipment properly.
- Cover materials when they are not in use.
- Keep materials away from streets, storm drains and drainage channels.
- Ensure dust control water doesn't leave site or discharge to storm drains.

Advance Planning To Prevent Pollution

- Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the *Erosion and Sediment Control Manual*, available from the Regional Water Quality Control Board, as a reference.
- Control the amount of runoff crossing your site (especially during excavation) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- Train your employees and subcontractors. The City can provide brochures about these issues for you to distribute to workers at your construction site. Inform your subcontractors about the stormwater requirements and their own responsibilities. Use *Blueprint for a Cleaner Bay*, a construction best management practices guide available at our Building Dept. counter.

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Painting and Application of Solvents and Adhesives

Storm Drain Pollution from Paints, Solvents, and Adhesives

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint material and wastes, adhesives and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

Handling Paint Products

- Keep all liquid paint products and wastes away from the gutter, street, and storm drains.

Painting Cleanup

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, French drain, or creek.
- For water-based paints, paint out brushes to the extent possible, and rinse into an inside sink drain that goes to the sanitary sewer.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent. Filter and reuse thinners and solvents, where possible. Dispose of excess liquids and residue as hazardous waste.
- When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage.

Good Housekeeping Practices

- Designate one area of the site for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, bermed if necessary. Make major repairs off site.
- To prevent off-site tracking of dirt, provide entrances with stabilized aggregate surfaces. Or provide a tire wash area.
- Keep materials out of the rain - prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
- Keep pollutants off exposed surfaces. Place trash cans and recycling receptacles around the site to minimize litter.
- Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- Cover and maintain dumpsters. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
- Place portable toilets away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.

Materials/Waste Handling

- Practice Source Reduction - minimize waste when you order materials. Estimate carefully.
- Recycle excess materials, whenever possible, such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires. www.reducewaste.org for info.
- Dispose of all wastes properly. Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.

Permits

- In addition to local grading and building permits, you will need to obtain a permit under the State's General Construction Activity Stormwater Permit if your construction site's disturbed area totals 5 acres or more. Information on the General Permit can be obtained from the Regional Water Quality Control Board. (This criteria will change to one acre as of Mar. 2005.)
- In Cupertino, residents with outside recycling can collect lawn, garden and tree trimmings in yardwaste totes. Yardwaste will be collected and composted by the city's contractors. Residents are encouraged to compost yardwaste on-site themselves. Or take yardwaste to a landfill where it will be composted.
- Landscape contractors should take clippings and pruning waste to a landfill that composts yard waste (DTA Newby Island and Zanker Rd. landfills are the nearest).
- Do not blow or rake leaves into the street.

Landscaping, Gardening, and Pool Maintenance

Landscaping/Garden Maintenance

- Protect stockpiles and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Schedule grading and excavation projects during dry weather.
- Use temporary check dams or ditches to divert runoff away from storm drains.
- Protect storm drains with sandbags, gravel-filled bags, straw wattles, or other sediment controls.
- Re-vegetation is an excellent form of erosion control for any site.
- Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage cabinet.
- Use pesticides sparingly, according to instructions on the label. Rinse empty containers with water and use the rinsewater as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- In Cupertino, residents with outside recycling can collect lawn, garden and tree trimmings in yardwaste totes. Yardwaste will be collected and composted by the city's contractors. Residents are encouraged to compost yardwaste on-site themselves. Or take yardwaste to a landfill where it will be composted.
- Landscape contractors should take clippings and pruning waste to a landfill that composts yard waste (DTA Newby Island and Zanker Rd. landfills are the nearest).
- Do not blow or rake leaves into the street.

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming pool water containing chlorine and copper-based algicides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

Pool/Fountain/Spa Maintenance

Draining pools or spas
When it's time to drain a pool, spa, or fountain, please be sure to call the Cupertino Sanitary District before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Discharge flows should be kept to the low levels typically possible through a garden hose. Higher flow rates may be prohibited by local ordinance.

Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer cleanout.

- If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recycle/reuse water by draining it gradually onto a landscaped area.
- Do not use copper-based algicides. Control algae with chlorine or other alternatives, such as sodium bromide.

Filter Cleaning

- Never clean a filter in the street or near a storm drain. Rinse cartridge and diatomaceous earth filters onto a dirt area, and spade filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
- If there is no suitable dirt area, call Cupertino Sanitary for instructions on discharging filter backwash or rinsewater to the sanitary sewer.

Earth-Moving Activities

Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- Protect downslope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's *Erosion and Sediment Control Field Manual* for proper erosion and sediment control measures.
- Cover stockpiles and excavated soil with secured tarps or plastic sheeting.

The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

Roadwork and Paving

Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

During Construction

- Avoid paving and seal coating in wet weather, or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.
- Never wash excess material from exposed-aggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- Park paving machines over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???
- Avoid over-application by water trucks for dust control.

Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt or concrete.
- After breaking up old pavement, be sure to remove all chunks and pieces. Make sure broken pavement does not come in contact with rainfall or runoff.
- When making saw cuts, use as little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

Fresh Concrete and Mortar Application

Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, cause serious problems, and is prohibited by law.

General Business Practices

- Wash out concrete mixers only in designated washout areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- Wash out excess into dirt areas that do not flow to streets or drains.
- Always store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

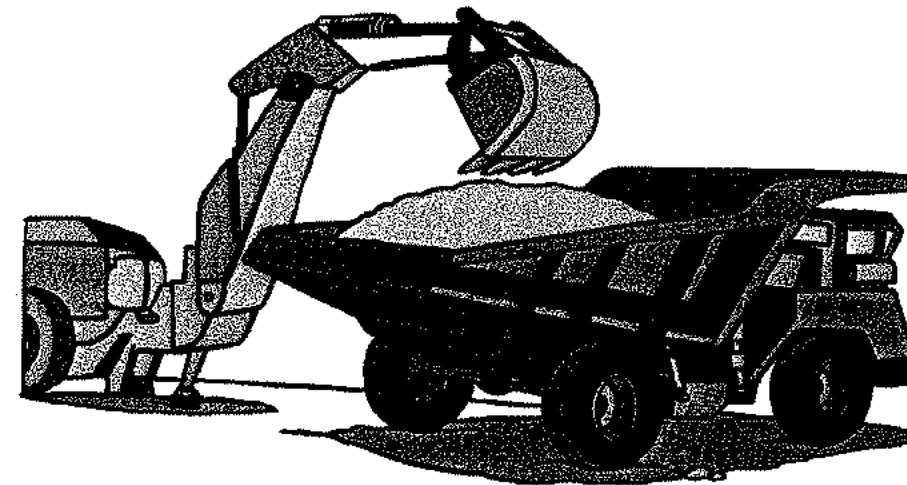
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Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

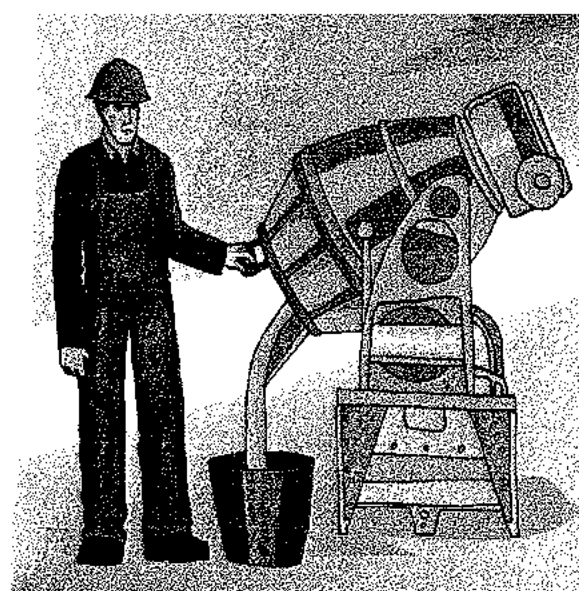
Practices During Construction

- Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- Protect downslope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's *Erosion and Sediment Control Field Manual* for proper erosion and sediment control measures.
- Cover stockpiles and excavated soil with secured tarps or plastic sheeting.



During Construction

- Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- Set up and operate small mixers on tarps or heavy plastic drop cloths.
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm drain.
- Protect applications of fresh concrete and mortar from rainfall and runoff until the material has dried.
- Wash down exposed aggregate concrete only when the washwater can (1) flow onto a dirt area, (2) drain onto a bermed surface from which it can be pumped and disposed of properly, or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete. See www.reducewaste.org for info on recyclers.
- Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- Never dispose of washout into the street, storm drains, drainage ditches, or streams.



Heavy Equipment Operation

Storm water Pollution from Heavy Equipment on Construction Sites

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Site Planning and Preventive Vehicle Maintenance

- Designate one area of the construction site, well away from streams or storm drain inlets, for auto and equipment parking, refueling, and routine vehicle and equipment maintenance. Contain the area with berms, sand bags, or other barriers.
- Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off-site, where cleanup is easier.
- If you must drain and replace motor oil, radiator coolant, or other fluids on site, use drip pans or drop cloths to catch drips and spills. Collect all spent fluids, store in separate containers, and properly dispose as hazardous waste (recycle whenever possible).
- Do not use diesel oil to lubricate equipment parts, or clean equipment. Use only water for any onsite cleaning.
- Cover exposed fifth wheel hitchches and other oily or greasy equipment during rain events.

Spill Cleanup

- Clean up spills immediately.
- Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleaning methods (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- Use as little water as possible for dust control. Ensure water used doesn't leave silt or discharge to storm drains.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Call 911 for significant spills.
- If the spill poses a significant hazard to human health and safety, property or the environment, you must also report it to the State Office of Emergency Services.

Small Business Hazardous Waste Disposal Prgm
Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use this program.
Call 408-299-7300 for a quote.



THIS DRAWING IS NOT PART OF THE CONTRACT DOCUMENTS PREPARED BY THE ARCHITECTS, SMWM. IT IS PROVIDED AS REFERENCE ONLY BY THE CITY OF CUPERTINO AND FURNISHED FOR THE CONTRACTOR'S INFORMATION AND CONVENIENCE.

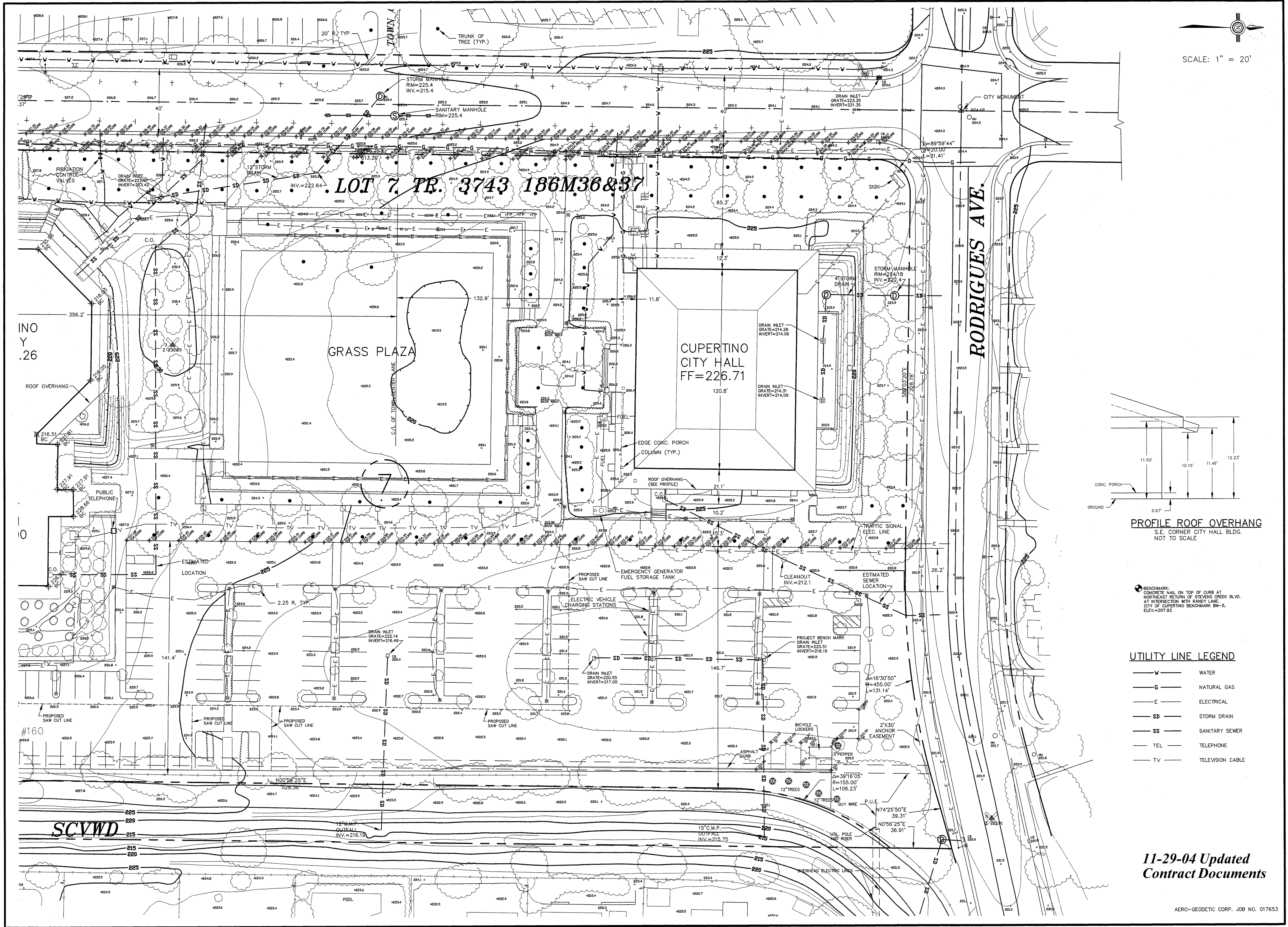
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DRAWN BY:	DATE:			
APPROVED BY:				

CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF CUPERTINO

DEPARTMENT OF PUBLIC WORKS

SCALE:	SHEET:
HORT.	OF SHEETS
VERT.	FILE:



SCALE: 1" = 20'

REVISIONS BY

CIVIL ENGINEERING SURVEYING CONSTRUCTION (408) 257-6452

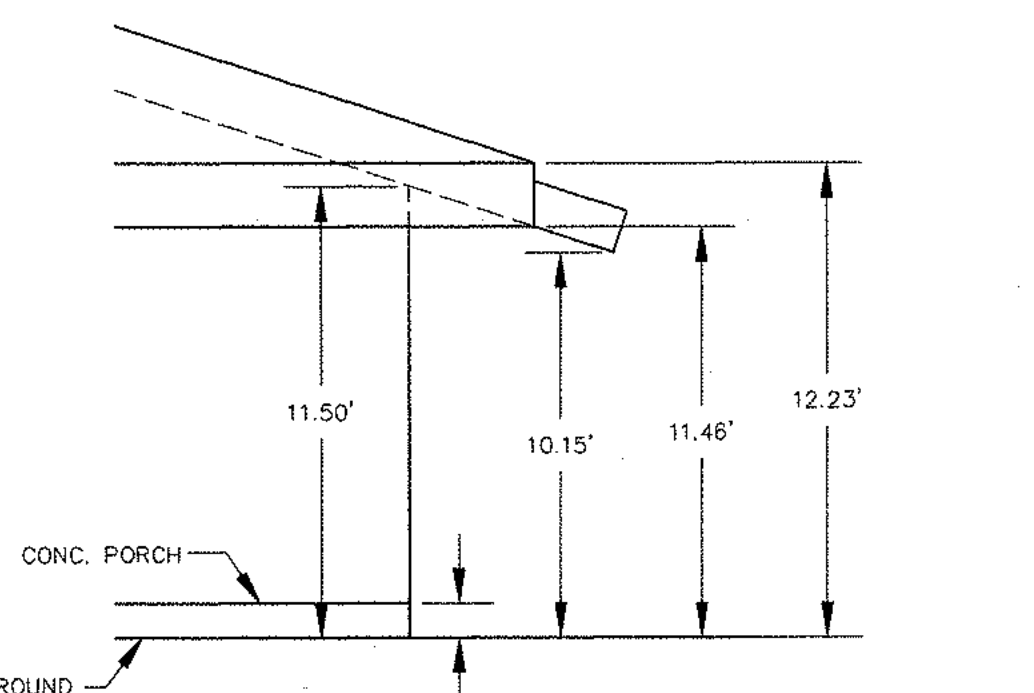
NELSEN ENGINEERING
CUPERTINO, CA.

NOTE: This site information drawing is supplied by the Owner and is not part of the Contract Documents prepared by SWMM. This drawing is included with the Documents for the information of the Contractor only. The Contractor shall field verify all information at the outset of the Project and shall promptly notify SWMM and the Owner of any deviations.



TOPOGRAPHIC SURVEY
CUPERTINO CIVIC CENTER
CUPERTINO, CALIFORNIA

Date: MAY 2002
Scale: 1" = 20'
Drawn: CAD
Job:
Sheet **1**
of 2 Sheets



PROFILE ROOF OVERHANG
S.E. CORNER CITY HALL BLDG.
NOT TO SCALE

BENCHMARK:
CONCRETE NAIL ON TOP OF CURB AT
NORTHEAST RETURN OF STEVENS CREEK BLVD.
AT INTERSECTION WITH RANDY LANE.
CITY OF CUPERTINO BENCHMARK BW-5,
ELEV.=207.92

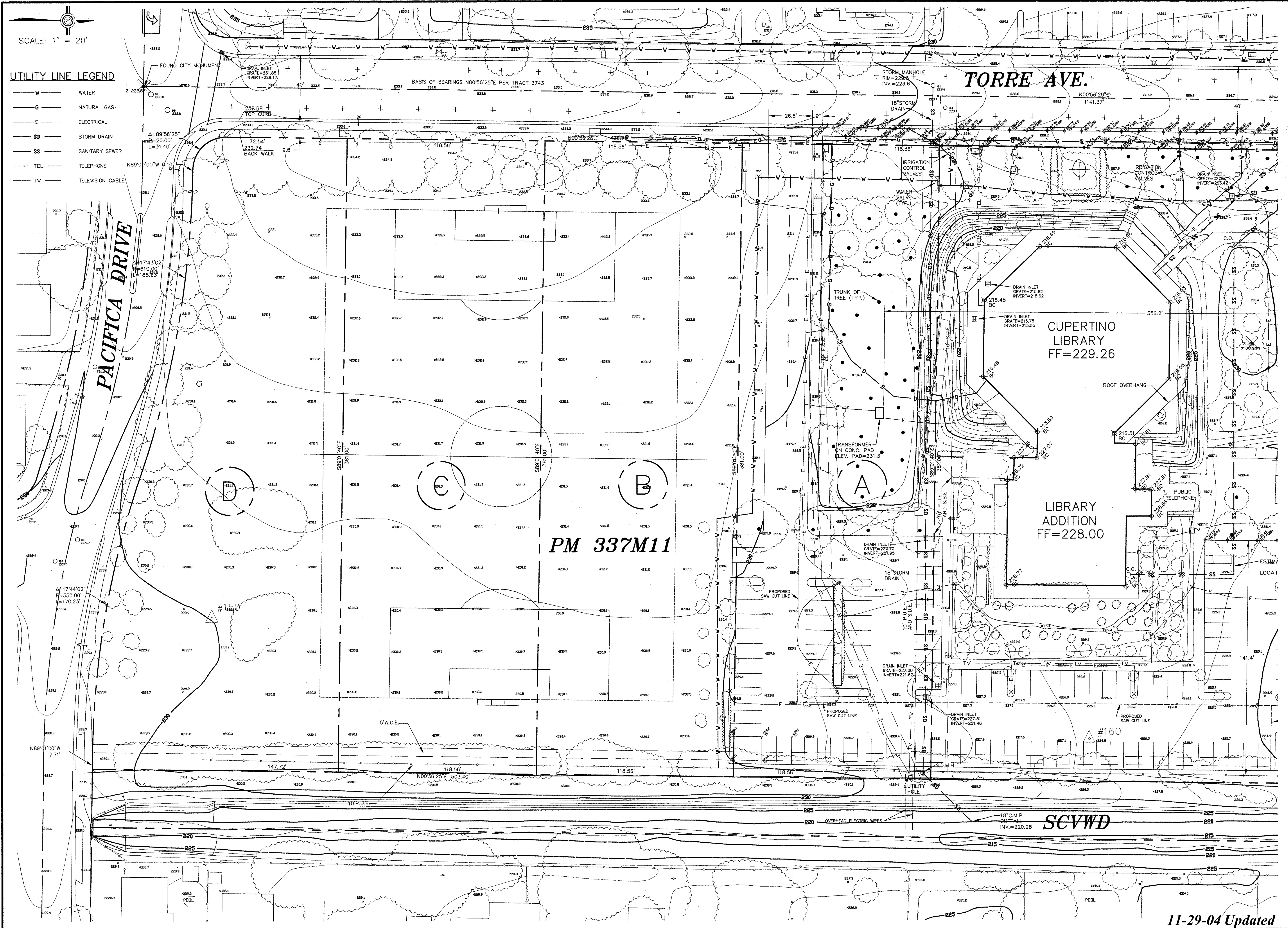
UTILITY LINE LEGEND

— V —	WATER
— G —	NATURAL GAS
— E —	ELECTRICAL
— SD —	STORM DRAIN
— SS —	SANITARY SEWER
— TEL —	TELEPHONE
— TV —	TELEVISION CABLE

SCALE: 1" = 20'

UTILITY LINE LEGEND

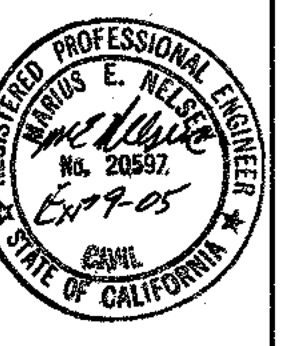
- W WATER
- G NATURAL GAS
- E ELECTRICAL
- SD STORM DRAIN
- SS SANITARY SEWER
- TEL TELEPHONE
- TV TELEVISION CABLE



REVISIONS	BY

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TOPOGRAPHIC SURVEY
 CUPERTINO CIVIC CENTER
 CUPERTINO, CALIFORNIA

Date: MAY 2002
 Scale: 1" = 20'
 Drawn: CAD
 Job:
 Sheet: 2
 of 2 Sheets

11-29-04 Updated
 Contract Documents

SYMBOLS LEGEND

REFERENCE GRID

EXTERIOR ELEVATION DRAWING
REFERENCE ARROW INDICATES DIRECTION OF VIEW.

INTERIOR ELEVATION DRAWING
REFERENCE COMPASS CARDINAL POINT INDICATES VIEW.

BUILDING SECTION REFERENCE
ARROW INDICATES DIRECTION OF VIEW.

DETAIL DRAWING REFERENCE SYMBOL

LARGE SCALE PLAN OR ENLARGED SECTIONAL DETAIL

DOOR DESIGNATION MARK - SEE DOOR SCHEDULE IN SPECIFICATION.

REVISION CLOUD.
CLOUD REPRESENTS EXTENT OF DRAWING REVISION.

ELEVATION (NEW)

ELEVATION (EXISTING)

INDICATES LEVEL LINE, CONTROL POINT, OR DATUM

MATCHLINE

ALIGN FACE OF FINISH WITH ADJACENT FACE OF FINISH

LIMIT OF DEMOLITION / NEW CONSTRUCTION

CENTERLINE

KEY NOTE DESIGNATION; SEE KEY NOTE LEGEND

WINDOW / LOUVER DESIGNATION
SEE WINDOW / LOUVER SCHEDULES IN SPECIFICATION.

REVISION NUMBER

CLG. HT. AT DESIGNATED LOCATION; TYPICAL CLG. HT. IS 10'-0" O.O.M.

DETAIL NUMBER
SHEET NUMBER

DETAIL NUMBER
SHEET NUMBER

DETAIL NUMBER TO BE REFERENCED
SHEET NUMBER TO BE REFERENCED

DETAIL NUMBER TO BE REFERENCED
SHEET NUMBER TO BE REFERENCED

ROOM NAME

ROOM NUMBER

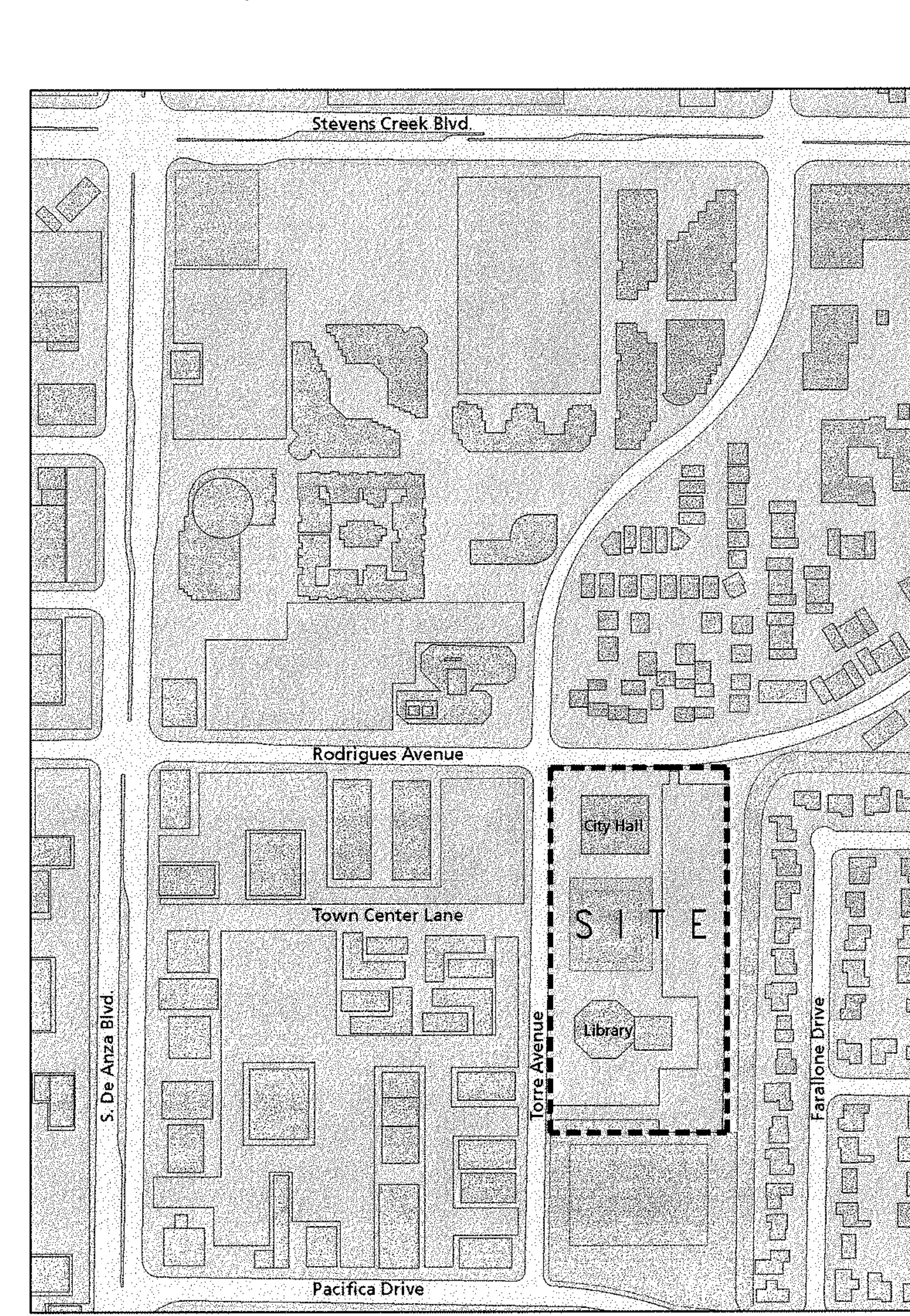
(E) DOOR

(N) DOOR

ABBREVIATIONS

& And
< Greater Than
> Less Than
/// Property Line
∕∕∕ Parallel
∕∕∕∕ Perpendicular
C.F. Centerline
D Diameter
∅ Full Size
F Finish
FT. Foot or Feet
FUR. Furring
FUT. Future
(E) Existing
(N) New
ARV. Above
A.C.B. Acoustical Board
A.C.P. Acoustical Panel
A.C.T. Acoustical Tile
A.D. Area Drain
A.D.S. Adjustable
A.F. Access Flooring
AGR. Aggregate
AL Aluminum
APPROX. Approximate
ARCH. Architectural
ASB. Asbestos
ASPH. Asphalt
A.F.F. Above Finished Floor
B.B. Bulletin Board
B.D. Board
B.TUM. Blotting Paper
B.K.P. Backing Plate
B.D.C. Building
BM. Benchmark
BT/B.O. Bottom of Beam
B.P. Blind Pocket
CAB. Cabinet
C.B. Catch Basin
CEN. Cement
CER. Ceramic
C.F. Cold Formed
C.G. Corner Guard
C.I. Cast Iron
C.J. Control Joint
CLG. Ceiling
CLD. Coaling
CLO. Closet
C.M.U. Concrete Masonry Unit
C.O. Closed Opening
COL. Column
CONC. Concrete
CONF. Conference
CONN. Connection
CONSTR. Construction
CONT. Continuous
CORR. Corridor
CPT. Control
CTR. Counter/sunk
CNT. Counter
C.T. Ceramic Tile
CTR. Center
DB. Double
DEPT. Department
D.F. Drinking Fountain
DET. Detail
DM. Diameter
DMR. Dispenser
D.O. Door Opening
D.O.P. Door
D.W.B. Drawer
D.S. Downspout
D.S.P. Dry Standpipe
DWG. Drawing
E. East
E.A. Each
E.J. Expansion Joint
E.L. Elevation
ELEC. Electrical
ELV. Elevation
EMER. Emergency
ENCL. Enclosure
E.O. Edge Of
E.P. Electrical Panelboard
EQT. Equal
EQUIP. Equipment
E.M.C. Electrical Water Cooler
EXPO. Exposed
EXP. Expansion
EXT. Exterior
FA. Fire Alarm
F.B. Flat Bar
F.D. Floor Drain
F.D.N. Foundation
F.E.C. Fire Extinguisher Cab.
F.H.C. Fire Hose Cabinet
F.H. Flat Head
F.N. Finish
FL. Floor
FLASH. Flashing
FLOR. Fluorescent
F.O.C. Face of Concrete
F.O.F. Face of Finish
F.O.S. Face of Stone
F.P.P. Fireproof
F.S. Full Size
FT. Foot or Feet
FTG. Footing
FUR. Furring
FUT. Future
GA. Gauge
GALV. Galvanized
G.L. Grid Line
G.O. Grab Bar
G.S. Grade
G.P. Grout
G.R. Ground
G.S.M. Galvanized Sheet Metal
H.B. Hose Bibb
H.C. Hollow Core
H.D. Handrail
HDCP. Handicapped
H.M. Hardwood
H.M.E. Hollow Metal
H.M.Z. Horizontal
H.P. High Point
H.W. Height
HGT./HT. Height
I.D. Inside Diameter (Dim.)
I.E. Invert Elevation
I.F. Inlet
INFO. Information
INSUL. Insulation
INT. Interior
INV. Invert
JAN. Janitor
J.B. Junction Box
J.H. Jump Opening Height
J.W. Joint Width
J.W. Joint
KIT. Kitchen
LAB. Laboratory
LAM. Laminate
LAV. Lavatory
L.C. Locker
L.P. Low Point
L.V. Light
L.W.C. Liquid Writing Chalkboard
MAX. Maximum
M.B. Medicine Cabinet
M.C. Medium Density Fiber Board
M.D.F. Medium Density Overlay
M.D.O. Mechanical
M.G.L. Membrane
MIL. Mil
MFR. Manufacturer
M.H. Manhole
M.N. Minimum
MIR. Mirror
MISC. Miscellaneous
M.L. Module Line
M.O. Moisture Opening
M.P. Midpoint
M.S. Machine Screw
MTD. Mounted
M.T.P. Metal
M.L. Mullion
M.T.L. Metal
N. North
N.A. Not Applicable
N.A.C. Not in Contract
NO. Number
U.O.N. Nominal
N.T.S. Not to Scale
O/ Over
O.A. Overall
OBS. Obscure
O.C. On Center
O.C.D. Overhead Coiling Door
O.C.G. Overhead Coiling Grille
O.D. Outside Diameter (Dim.)
O.F.C.I. Owner Furnished, Contractor Installed
O.F.D. Overflow Drain
O.F.F. Office
O.F.I. Owner Furnished, Owner Installed
O.H. Opposite Hand
O.P. Opening
O.P.P. Opposite
PRCST. Pre-cast
PH. Phase
PL. Floor
PLAM. Plastic Laminate
PLAS. Plaster
PLYMD. Plywood
PLW. Portland Cement Plaster
POL. Polished
PK. Pole
P.S.A. Pressure Sensitive Adhesive
P.P. Point or Point
PTB. Particulate Board
PTC.L.B.D. Paper Towel Dispenser
PTD. Paper Dispenser & Receptacle Unit
PTN. Partition
P.T.R. Paper Towel Receptacle
PT.T. Quarry Tile
R. Riser
RAD. Radius
R.C.P. Reflected Ceiling Plan
R.D. Roof Drain
REF. Reference
REFR. Refrigerator
REFR. Reinforced
REFR. Required
RESL. Restroom
R.M. Room
R.O. Rough Opening
R.W. Redwood
R.W.L. Rain Water Leader
RELI. Recessed
REF. Refer To
REV. Reversed
S.A.D. See Arch. Dwg.
S. South
S.C.C. Solid Core
S.C.D. Seal Cover Dispenser
SCHED. Schedule
S.B. Soap Dispenser
SECT. Section
S.E.D. See Electrical Drawings
SH. Shelf
SHR. Shower
SHI. Sheet
SM. Similar
S.J. Score Joint
S.L.D. See Landscaping Drawing
S.M. Sheet Metal
S.M.D. See Mechanical Drawings
S.N.D. Sanitary Napkin Dispenser
S.N.R. Sanitary Napkin Receptacle
SPC. Specification
SP. Square
S.S.D. See Structural Drawings
S.S.T. Stainless Steel
S.S.K. Service Sink
STA. Station
STD. Standard
S.T./D.D. See Telecom/Data Drawings
STE. Steel
STOR. Storage
STR. Structural
S.T.S. Self Tapping Screw
SUSP. Suspended
SYN. Symmetrical
T. Tread
T.B. Towel Bar
T.C. Top of Curb
TEL. Telephone
TEL. Terrace
T&G. Tongue and Groove
THK. Thickness
T.I.S. Tenant Improvement Standard
T.P. Top of Partition
T.P. Top of Paper Dispenser
T.P.D. Top of Partition
T.V. Television
T.M. Top of Wall
UNT. Unfinished
UNL. Unless Otherwise Noted
UR. Urinal
VERT. Vertical
VEST. Vestibule
V.F. Verify in Field
V.T.R. Vent through Roof
W. Wall
W. With
W.C. Water Closet
W. Wood
W.O. Window Opening
W.D. Without
W.P. Waterproof
W.P. Work Point
W.S. Wood Screw
WSCT. Walnut
WT. Weight

LOCATION MAP
10400 Torre Avenue, Cupertino, CA



PROJECT DESCRIPTION

PROJECT ADDRESS: Cupertino Civic Center, 10400 Torre Avenue, Cupertino CA 95014

PROJECT DESCRIPTION:
Construction of a 2-story, 54,300 sf (approx.) library, 1-story, 6,250 sf (approx.) community hall and civic plaza.

BUILDING AND CODE DATA:
The project will adhere to the following codes:
California Building Code (CBC) Title 24, part 2, 2001 Ed.
California Electrical Code (CEC) Title 24, part 3, 2001 Ed.
California Mechanical Code (CMC) Title 24, part 4, 2001 Ed.
California Plumbing Code (CPC) Title 24, part 5, 2001 Ed.
State reference and standards, Title 24, part 12, 2001 Ed.
California Code of Regulations, Title 19, 2001 Ed.

A. Occupancy Classification:
Library: Group B
Library Courtyard: Group A.3
Community Hall: Group A2.1

B. Construction Type:
Library: Type II-One-Hour, Sprinkler system in lieu of 1 hour construction
Community Hall: Type V-One-Hour, Sprinkler system in lieu of 1 hour construction

C. Number of stories allowed (per Table 5-B):
Library: 4 stories
Community Hall: 2 stories

D. Location on Property:
Library: Open 4 sides
Community Hall: Open 3 sides

F. Allowable Floor Area (per Table 5B):
The Library is surrounded on all sides by a yard. Per Section 505.1.3, floor areas may be increased at a rate of 5% for each foot by which the minimum width exceeds 20 feet. 19 feet x 5% increase per foot = 95% increase allowed. The Community Hall is surrounded on three sides by a yard. Per Section 505.1.2, floor areas may be increased at a rate of 2.5% for each foot by which the minimum width exceeds 20 feet. 35 feet x 2.5% increase per foot = 87.5% increase allowed.

OCCUPANCY	BASE ALLOWABLE SQ. FT.	INCREASE FOR SEPARATION FROM ADJACENT PROPERTY	DOUBLE FOR MULTI-STORY	TOTAL ALLOWABLE SQUARE FEET	ACTUAL SQ. FT.
LIBRARY B (Type II-1HR)	18,000	1.95 x 18,000 = 35,100	2 x 35,100 = 70,200	70,200	54,300
COMMUNITY HALL A-2.1 (Type V-1HR)	10,500	1.875 x 10,500 = 19,700		19,700	6,250

G. Exterior Wall and Opening Protection (per Table 5-A)
A-2.1: Non-Bearing Walls-2 hour N/C less than 10', 1 hour N/C elsewhere, except NR, N/C 40' or greater Openings-Not Permitted less than 5', Protected less than 10'
B: Non-Bearing Walls-1 hour N/C, except NR, N/C 40' or greater Openings-Not Permitted less than 5', Protected less than 10'

H. Occupancy Separation: None

I. Means of Egress: See Egress Plans

J. Number of Exits required: Minimum of two exits at all floors

K. Exit stair widths: 44" min. width

L. Exit Enclosures:
All exit enclosures: One-hour min. fire resistive per CBC 1005.3.3.2. Per CBC 711.3. Openings that penetrate only one floor and are not connected with openings communicating with other stories or basements and are not concealed within building construction assemblies, need not be enclosed.
All exit enclosure doors: 60 min. rating per CBC 1005.3.3.5
Stairs: Construction per CBC 603.4

M. Shaft Construction:
One-hour rating per Table 6-A

N. Accessibility:
Building to be fully accessible per all applicable codes and guidelines. See Accessibility Plans.

P. Toilet Fixture Count from CBC/Chapter 29/Table 29A

FLOOR	W.C.	MALE LAV.	URINAL	W.C.	FEMALE LAV.
FIRST FLOOR	4	6	2	6	6
SECOND FLOOR	1	2	1	2	2
TOTAL PROVIDED	5	8	3	8	8
TOTAL REQUIRED	3	3	2	5	3

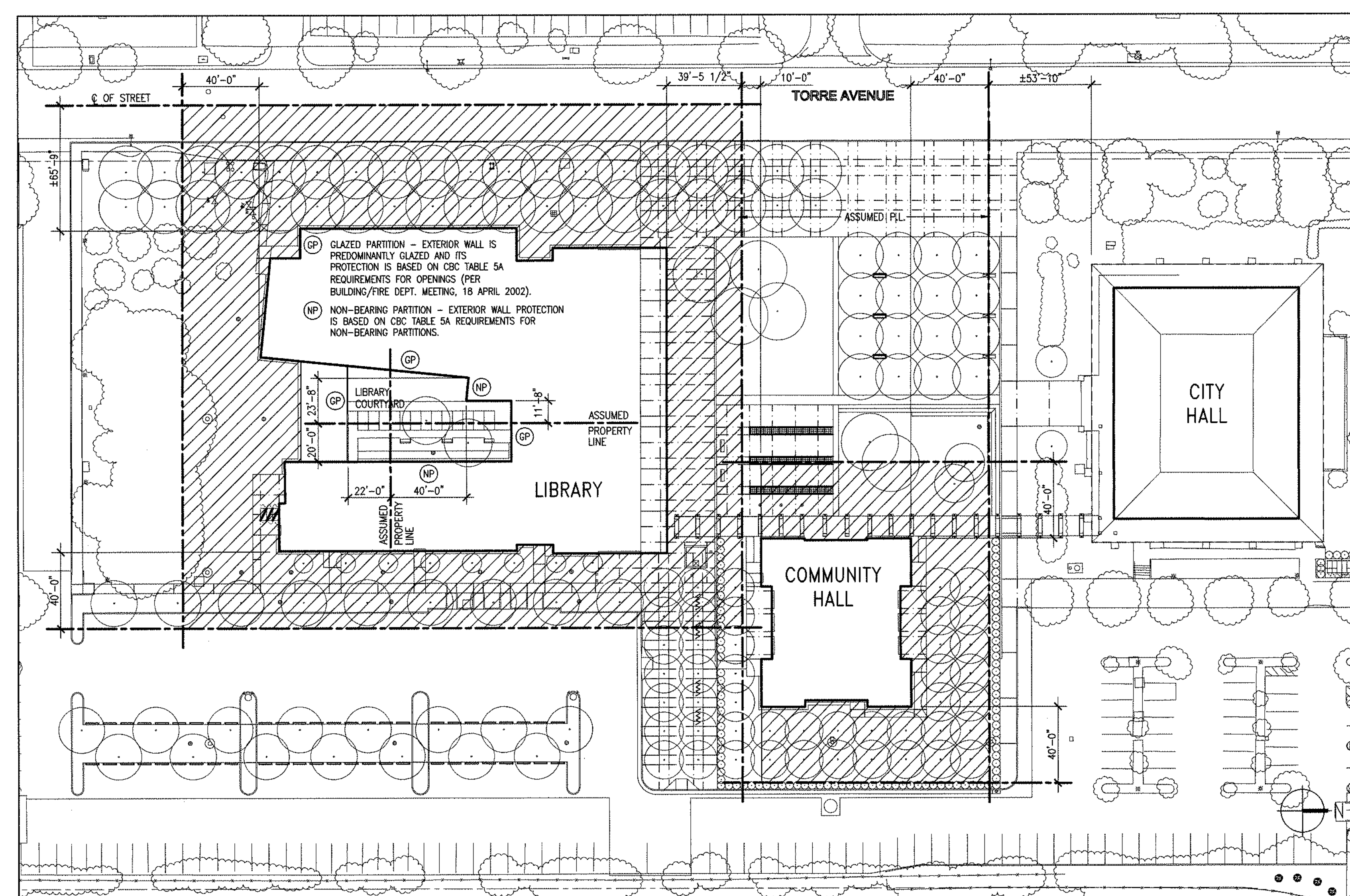
FLOOR	W.C.	MALE LAV.	URINAL	W.C.	FEMALE LAV.
FIRST FLOOR	2	2	2	4	2
TOTAL REQUIRED	2	2	2	4	2

Q. List of Deferred Submittals by Others (includes but is not limited to the following):
1. Fire Sprinklers
2. Fire Alarm System
3. City Service Underground
4. C.F. (Cold-Formed) Metal Framing
5. Design-Build Stairs (Stair 2 and 3)
6. Library Stocks (N.I.C.)

GENERAL NOTES

- FOR EXTERIOR SYSTEMS MOCK-UP, SEE 1, 1A AND 1B/A3.22.
- HORIZONTAL CONTROL / BUILDING LAYOUT: THE CENTERLINE OF THE ARCADE IS INTENDED TO ALIGN WITH THE MIDPOINT BETWEEN THE TWO COLUMNS INDICATED AT CITY HALL. THE MIDPOINT BETWEEN COLUMN LINES 'S' AND '9' OF THE LIBRARY, IN TURN, IS INTENDED TO ALIGN WITH THE CENTERLINE OF THE ARCADE. THE COMMUNITY HALL IS CENTERED ON ARCADE COLUMN LINES 'AN' AND 'AP'.
- ALL EXPOSED STEEL, INTERIOR AND EXTERIOR, REQUIRE SPECIAL PREPARATION FOR PAINTING; SEE SPECIFICATION SECTION 09900, PAINTS AND COATINGS.
- ALL EXTERIOR STEEL SHALL BE GALVANIZED.

PUBLIC WAYS AND YARDS



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San Francisco, CA 94103
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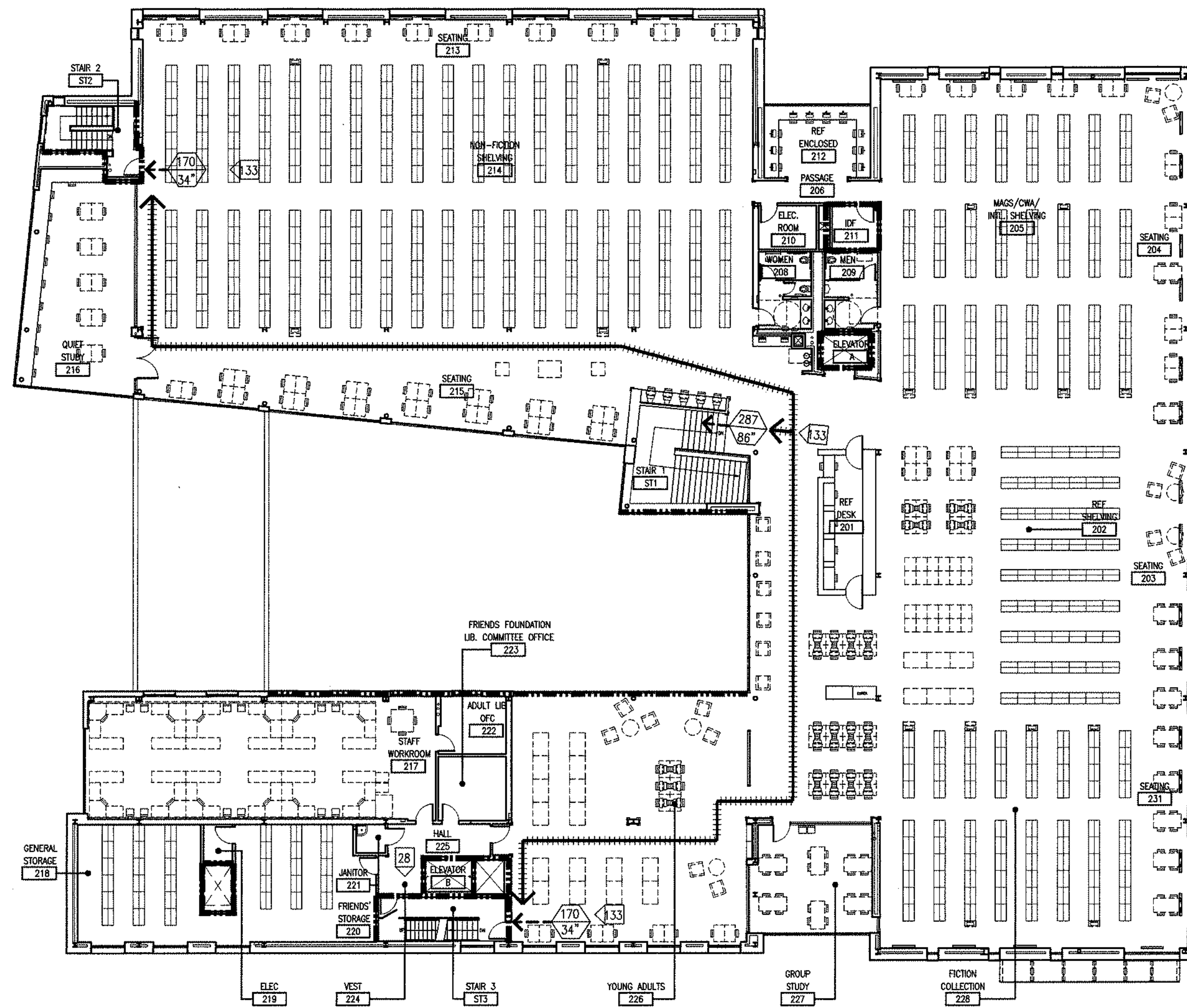
sheet 05B

PROJECT DESCRIPTION

SCALE: NONE date: 2003.04.18
drawn by: DH project number: 201114.00
sheet number: 05B

A0.01

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SECOND FLOOR EGRESS PLAN
1/16"=1'-0" (2)

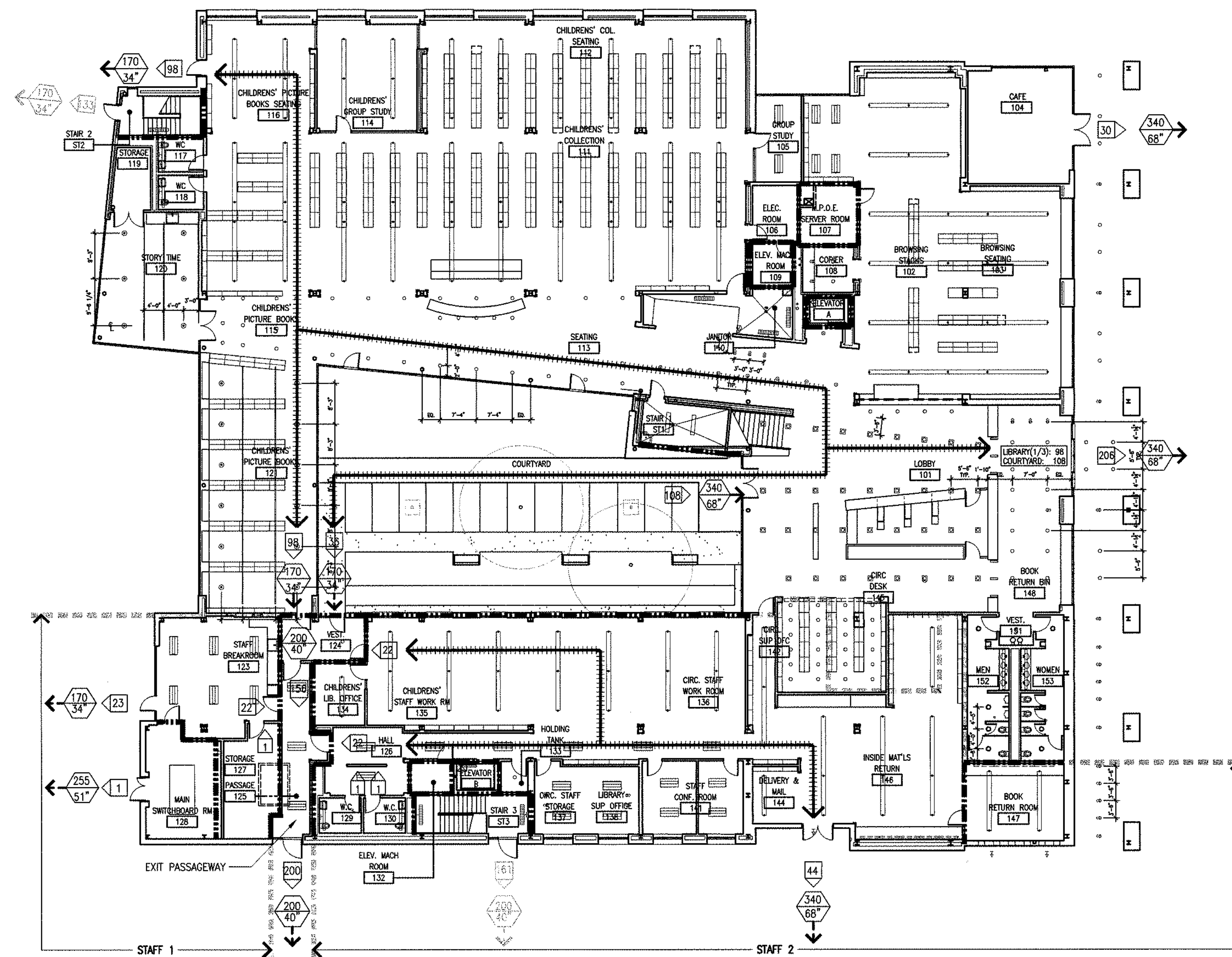
LEGEND

- 1 HOUR RATED PARTITION
- LIMIT OF AREA CALCULATED
- EXIT PATH
- 340/68' EXIT LOAD CAPACITY
- 50 EXIT WIDTH OF DOOR OR STAIRS
- 50 EXIT LOAD FROM A SPACE

GENERAL NOTES
1. SEE REMARKS COLUMN IN DOOR SCHEDULE FOR DOORS EQUIPPED WITH EXIT DEVICES (PANIC HARDWARE).

SECOND FLOOR

ROOM NO AND ROOM NAME	AREA USE	LOAD FACTOR	AREA	OCCUPANTS	
201 REF. DESK	READING AREA	50	2485	50	LIBRARY
202 REF. SHELVING	STACK AREA	100	1319	14	
203 SEATING	READING AREA	50	731	15	
204 SEATING	READING AREA	50	598	12	
205 MAGS. & CMA & INTL. SHELVING	STACK AREA	100	2935	30	
206 PASSAGE	READING AREA	50	144	3	
207 VEST	ALL OTHERS	100	39	1	
208 W.C.	ALL OTHERS	100	56	1	
209 W.C.	ALL OTHERS	100	56	1	
210 ELEC. ROOM	MECH EQUIP RM	300	65	1	
211 L.D.F.	MECH EQUIP RM	300	55	1	
212 REF. ENCLOSED	CONFERENCE RM	15	348	24	
213 SEATING	READING AREA	50	618	13	
214 NON-FICTION SHELVING	STACK AREA	100	6121	62	
215 SEATING	READING AREA	50	1084	22	
216 QUIET STUDY	CONFERENCE RM	15	730	49	
226 YOUNG ADULTS	READING AREA	50	1939	39	
227 GROUP STUDY	CONFERENCE RM	15	396	27	
228 FICTION COLLECTION	STACK AREA	100	1936	20	
231 SEATING	READING AREA	50	411	9	
217 STAFF WORKROOM	OFFICE	100	1370	14	
218 GENERAL STORAGE	STORAGE	300	632	3	
219 ELEC. ROOM	MECH EQUIP RM	300	33	1	
220 FRIENDS STORAGE	STORAGE	300	465	2	
221 JANITOR	MECH EQUIP RM	300	25	1	
222 ADULT LIB. OFC.	OFFICE	100	125	2	
223 FRIENDS FOUNDATION LIB. COMMITTEE OFFICE	OFFICE	100	137	2	
224 VEST.	ALL OTHERS	100	38	1	
225 HALL	ALL OTHERS	100	131	2	
TOTAL				427	427



FIRST FLOOR EGRESS PLAN
1/16"=1'-0" (1)

FIRST FLOOR

ROOM NO AND ROOM NAME	AREA USE	LOAD FACTOR	AREA	OCCUPANTS	
101 LOBBY	ALL OTHERS	100	2385	24	LIBRARY
102 BROWSING STACKS	STACK AREA	100	1167	12	
103 BROWSING SEATING	READING AREA	50	1146	23	
105 GROUP STUDY	CONFERENCE RM	15	342	23	
106 ELEC. ROOM	MECH EQUIP RM	300	108	1	
107 M.P.O.E. & SERVER	MECH EQUIP RM	300	124	1	
108 COPIER	ALL OTHERS	100	116	2	
109 ELEV. MACH. ROOM	MECH EQUIP RM	300	83	1	
110 JANITOR	MECH EQUIP RM	300	45	1	
111 CHILDRENS COLLECTION	STACK AREA	100	2562	26	
112 CHILDRENS COLL SEATING	READING AREA	50	346	7	
113 SEATING	READING AREA	50	3058	62	
114 CHILDRENS GROUP STUDY	CONFERENCE RM	15	450	30	
115 CHILDRENS PICTURE BOOKS	STACK AREA	100	1094	11	
116 CHILDRENS PICTURE BOOK SEATING	READING AREA	50	452	9	
117 W.C.	ALL OTHERS	100	55	1	
118 W.C.	ALL OTHERS	100	55	1	
119 STORAGE	STORAGE	300	130	1	
120 STORYTIME	CONFERENCE RM	15	527	36	
121 CHILDRENS PICTURE BOOKS	STACK AREA	100	1175	12	
148 BOOK RETURN BIN	OFFICE	100	243	3	
151 VEST.	ALL OTHERS	100	48	1	
152 MEN	ALL OTHERS	100	229	3	
153 WOMEN	ALL OTHERS	100	235	3	
SUBTOTAL					294
COURTYARD	ASSEMBLY	15	2151	144	OTHER
104 CAFE	DINING ROOM	15	445	30	
SUBTOTAL					174
123 STAFF BREAKROOM	DINING ROOM	15	656	44	STAFF 1
127 STORAGE	STORAGE	300	252	1	
128 MAIN SWITCHBOARD ROOM	MECH EQUIP RM	300	282	1	
SUBTOTAL					46
126 HALL	ALL OTHERS	100	337	4	STAFF 2
129 W.C.	ALL OTHERS	100	59	1	
130 W.C.	ALL OTHERS	100	59	1	
132 ELEV. MACH. ROOM	MECH EQUIP RM	300	100	1	
133 HOLDING TANK	MECH EQUIP RM	300	35	1	
134 CHILDRENS LIB. OFFICE	OFFICE	100	126	2	
135 CHILDRENS STAFF WORKROOM	OFFICE	100	1005	11	
136 CIRC. STAFF WORKROOM	OFFICE	100	1105	12	
137 CIRC. STAFF STORAGE	STORAGE	300	125	1	
138 LIBRARY SUP. OFFICE	OFFICE	100	148	2	
141 STAFF CONF. ROOM	CONFERENCE RM	15	325	22	
142 CIRC. SUP. OFFICE	OFFICE	100	125	2	
144 DELIVERY & MAIL	OFFICE	100	123	2	
145 CIRC. DESK	OFFICE	100	729	8	
146 INSIDE MATLS RETURN	OFFICE	100	1354	14	
147 BOOK RETURN ROOM	OFFICE	100	344	4	
SUBTOTAL					88
TOTAL				602	

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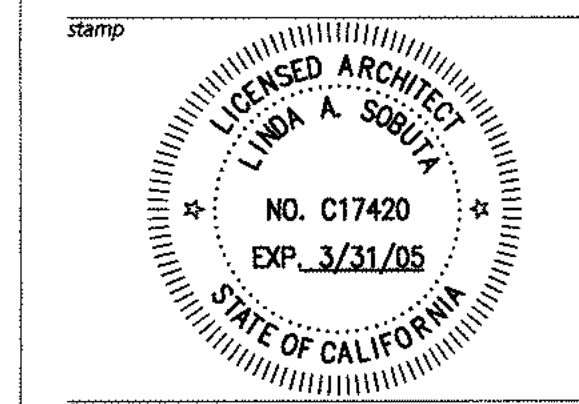
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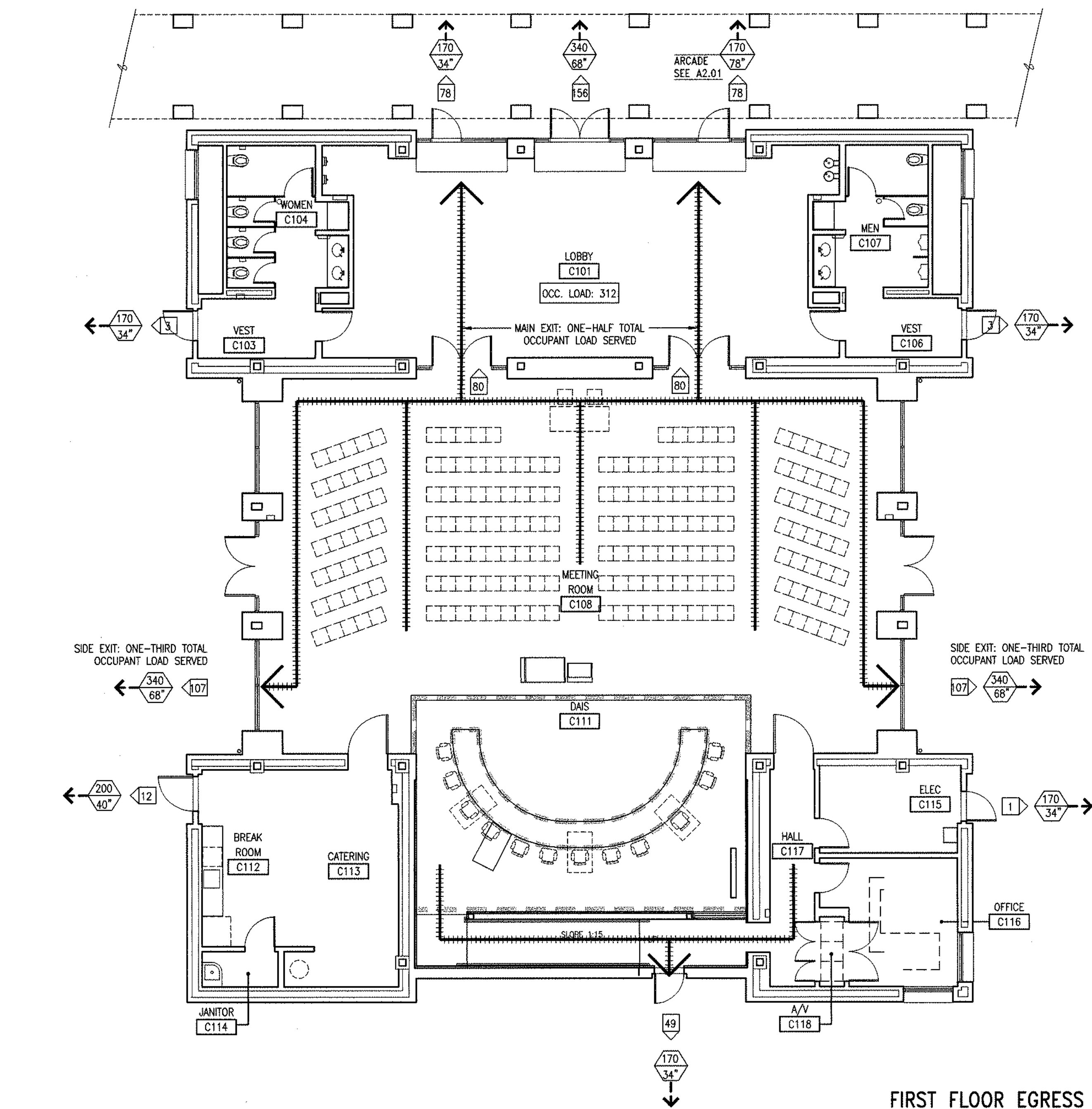
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LEGEND

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--- LIMIT OF AREA CALCULATED

--- EXIT PATH

340/68' EXIT LOAD CAPACITY

50' EXIT WIDTH OF DOOR OR STAIRS

50' EXIT LOAD FROM A SPACE

GENERAL NOTES

1. SEE REMARKS COLUMN IN DOOR SCHEDULE FOR DOORS EQUIPPED WITH EXIT DEVICES (PANIC HARDWARE).

FIRST FLOOR				
ROOM NO AND ROOM NAME	AREA USE	LOAD FACTOR	AREA	OCCUPANTS
C101 LOBBY	LOBBY	7	1064	152
C103 VEST	ALL OTHERS	100	79	1
C104 WOMEN	ALL OTHERS	100	149	2
C106 VEST	ALL OTHERS	100	79	1
C107 MEN	ALL OTHERS	100	149	2
C108 MEETING ROOM	AUDITORIUM	7	2235	320
C111 DMS	PLATFORM	15	639	43
C112 BREAK ROOM	ALL OTHERS	15	138	10
C113 CATERING	STORAGE	300	249	1
C114 JANITOR	MECH EQUIP RM	300	27	1
C115 ELEC	MECH EQUIP RM	300	126	1
C116 OFFICE	OFFICE	100	158	2
C117 HALL	ALL OTHERS	100	266	3
C118 A/V	STORAGE	300	18	1
TOTAL				550

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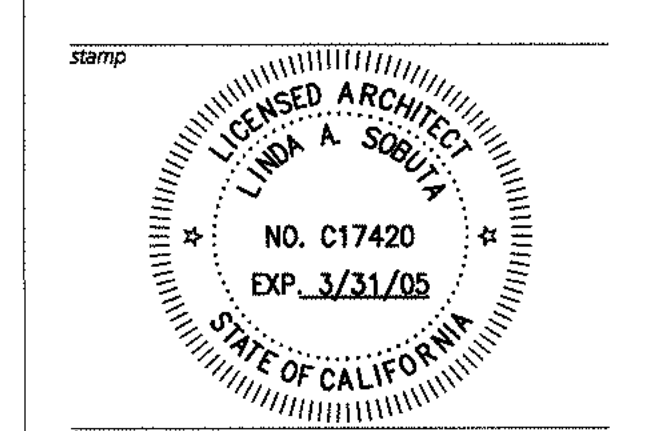
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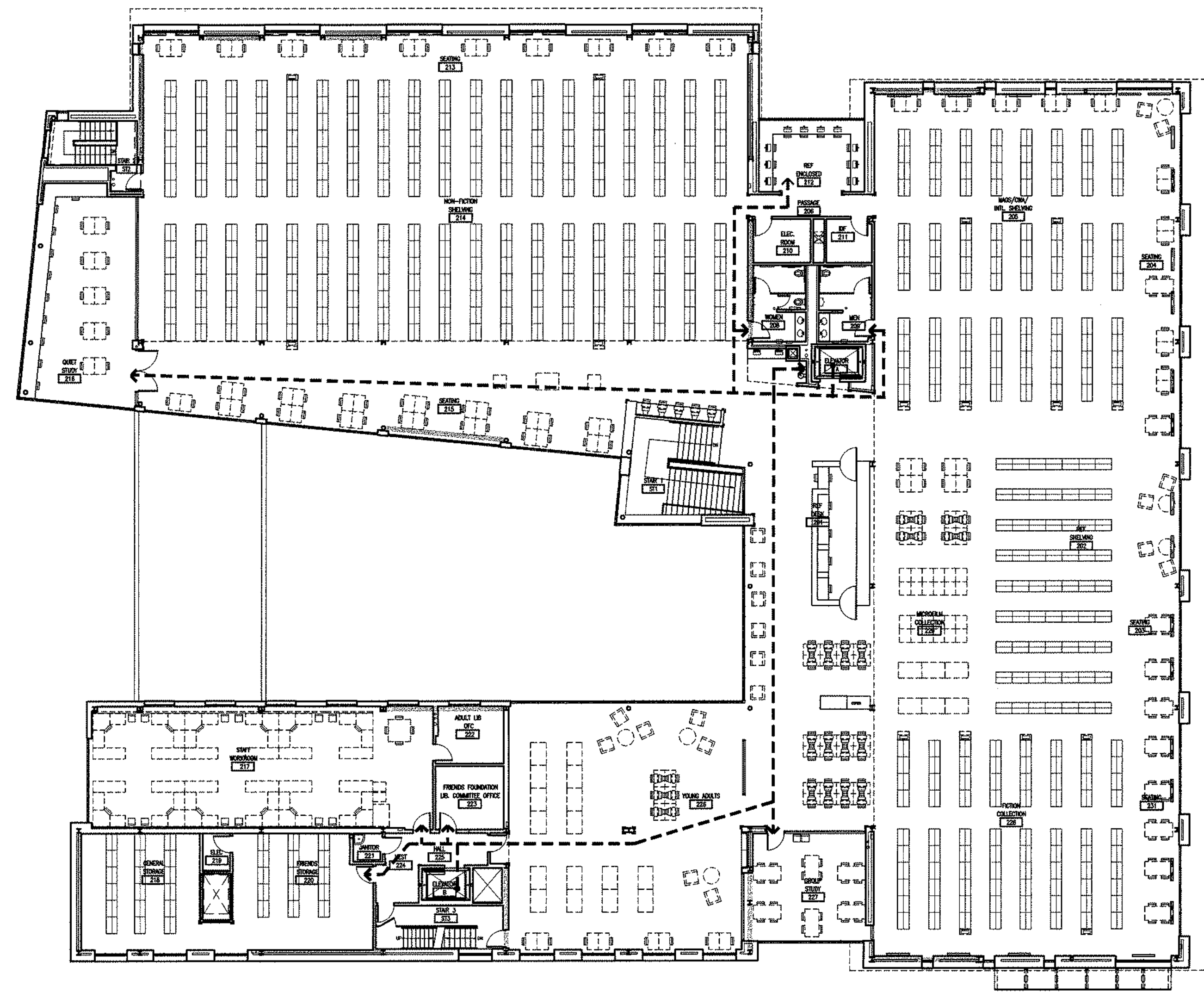
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COMMUNITY HALL EGRESS PLAN

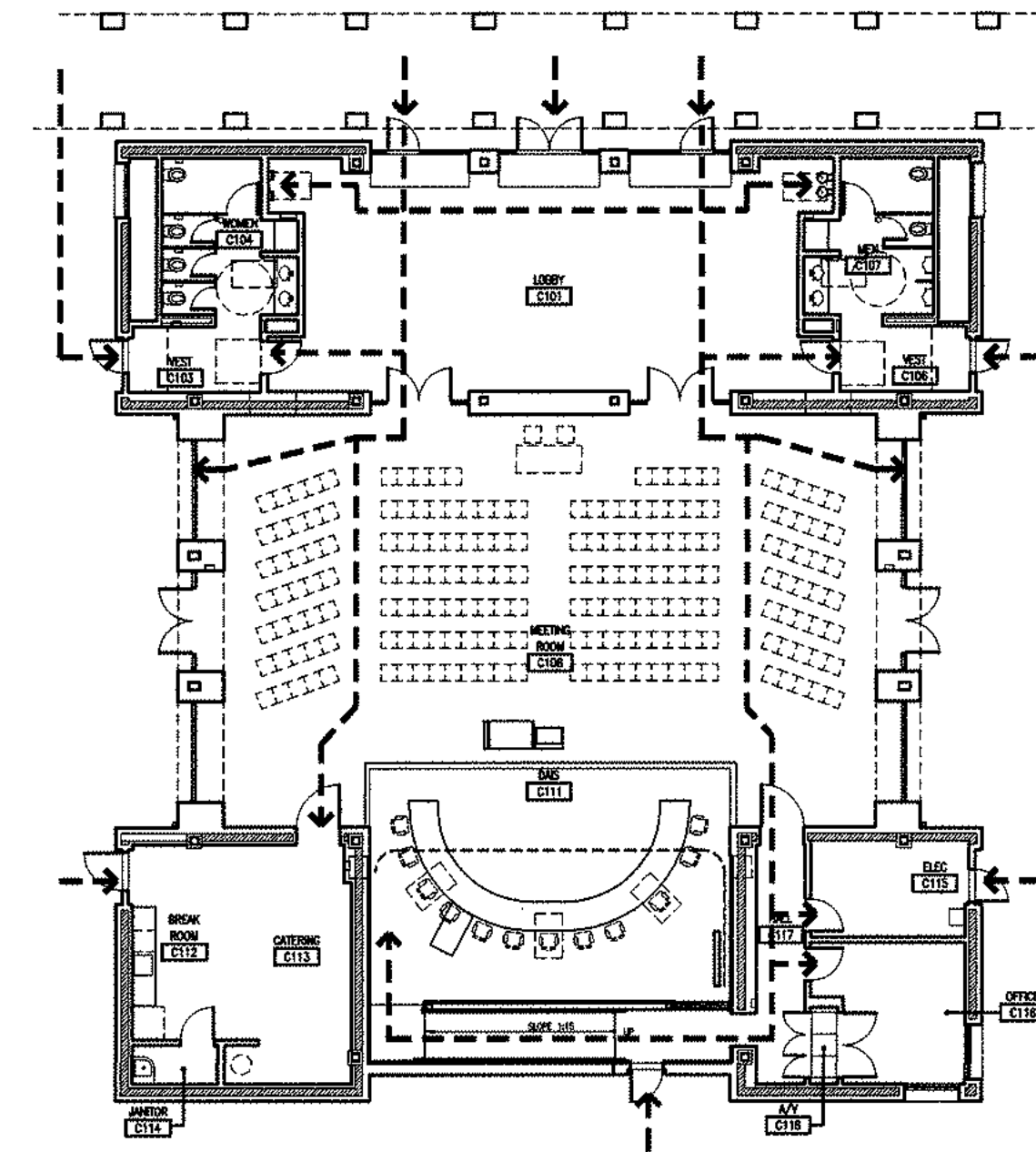
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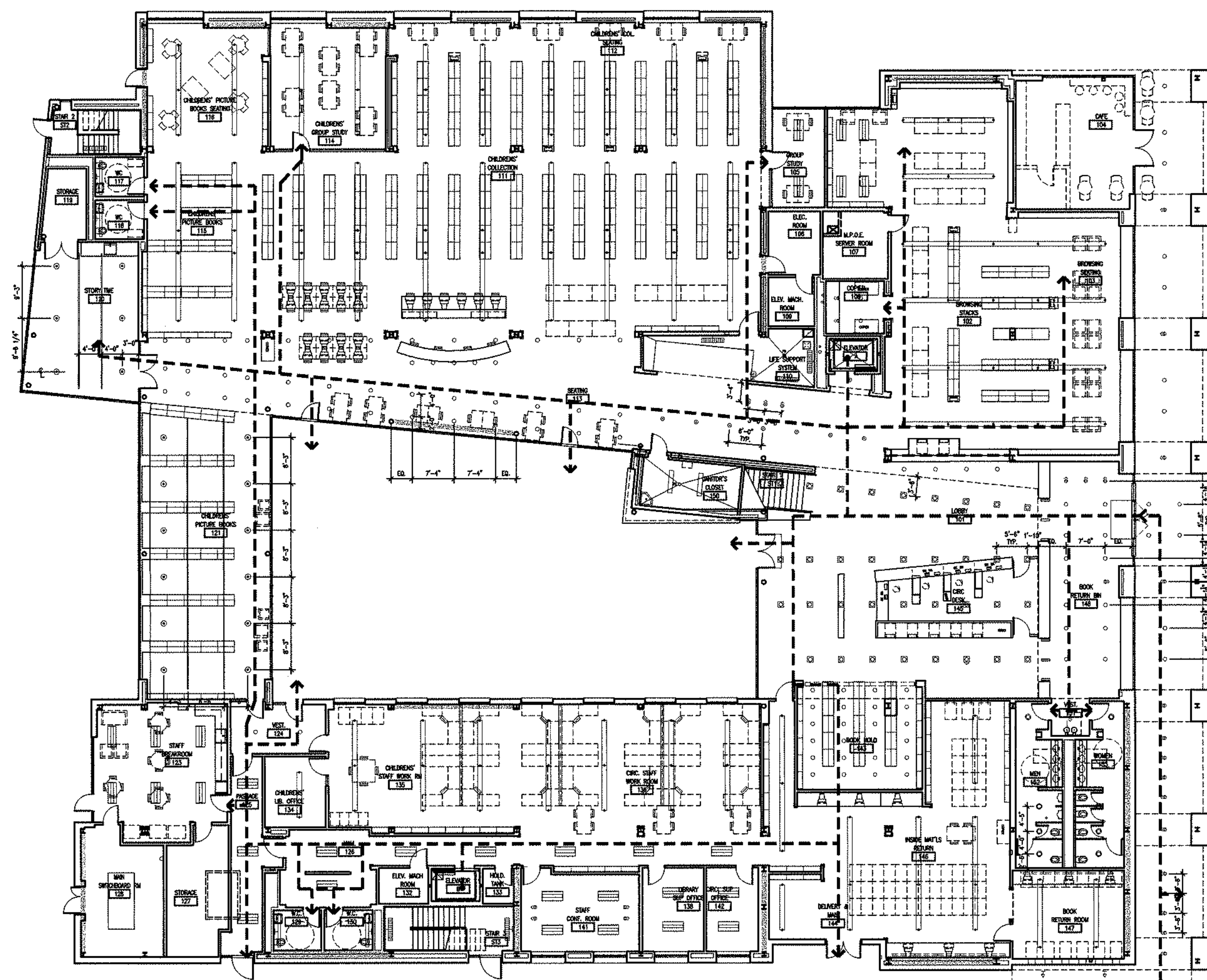
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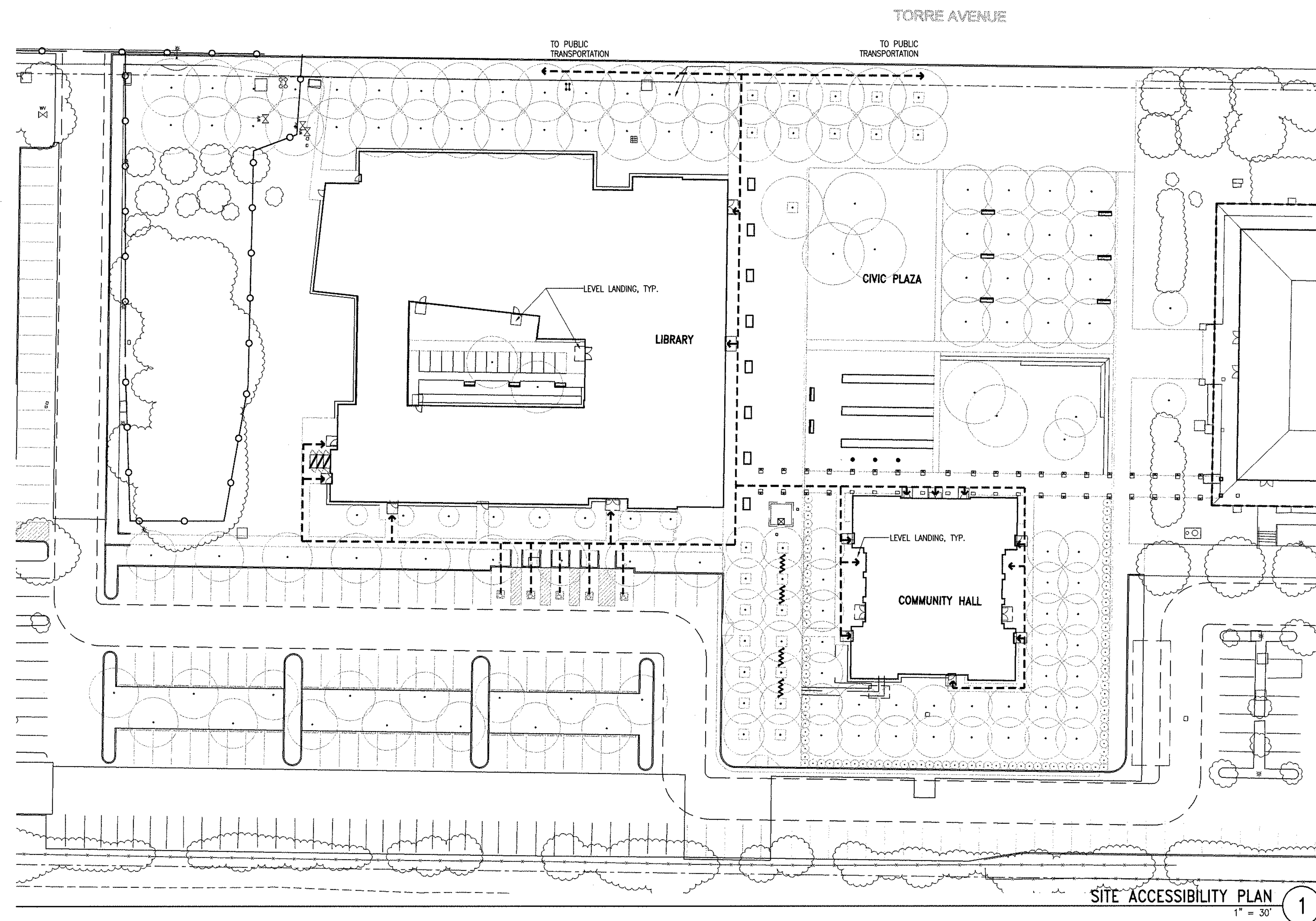
LIBRARY SECOND FLOOR ACCESSIBILITY PLAN
1/16" = 1'-0" 4



COMMUNITY HALL ACCESSIBILITY PLAN
1/16" = 1'-0" 2



LIBRARY FIRST FLOOR ACCESSIBILITY PLAN
1/16" = 1'-0" 3



SITE ACCESSIBILITY PLAN
1" = 30' 1

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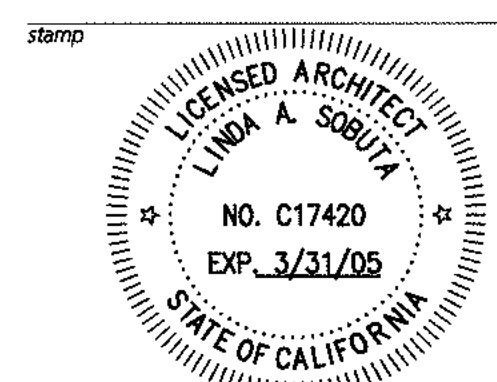
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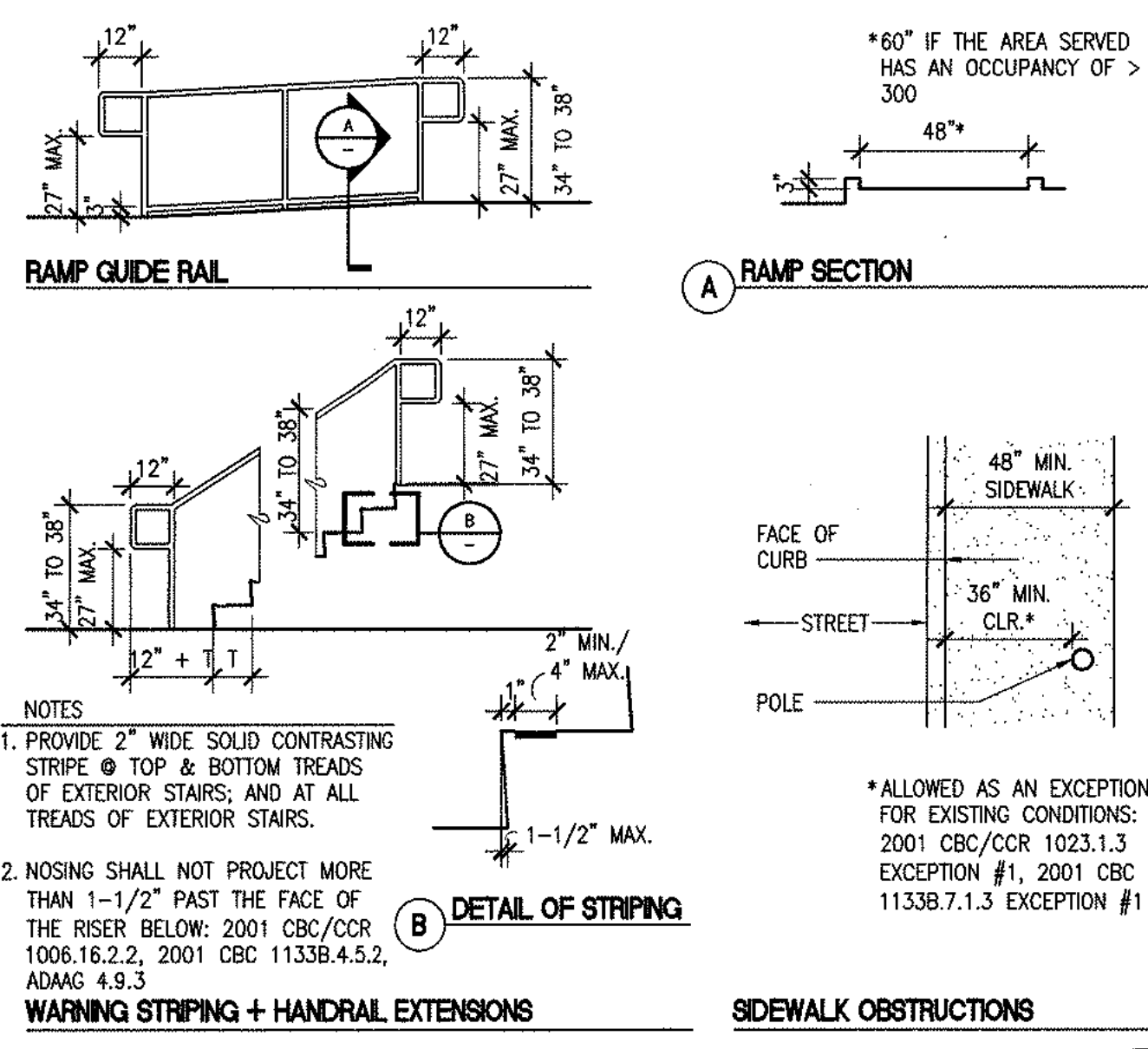


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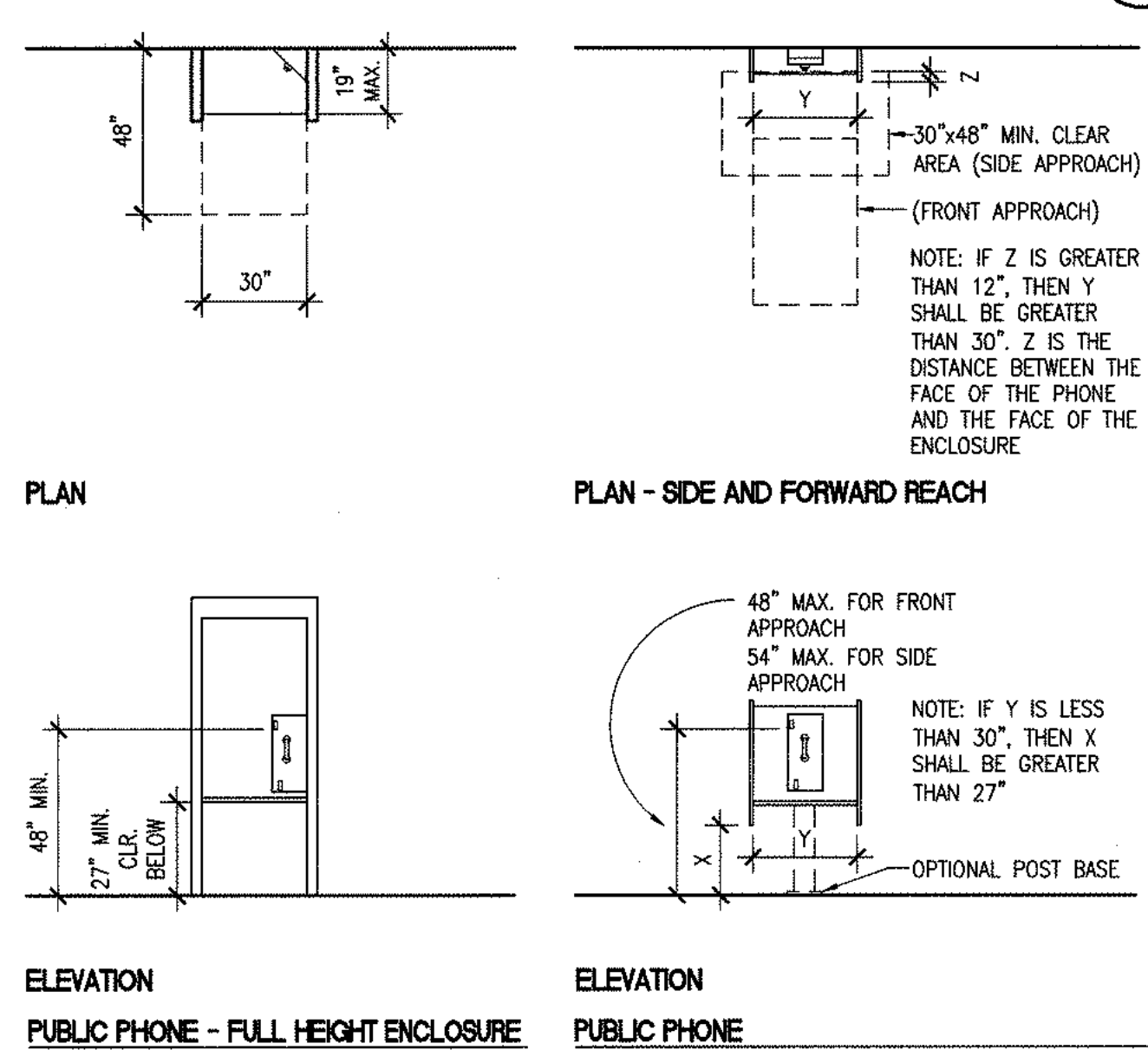
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drawn by LR project number 20114.00
sheet number

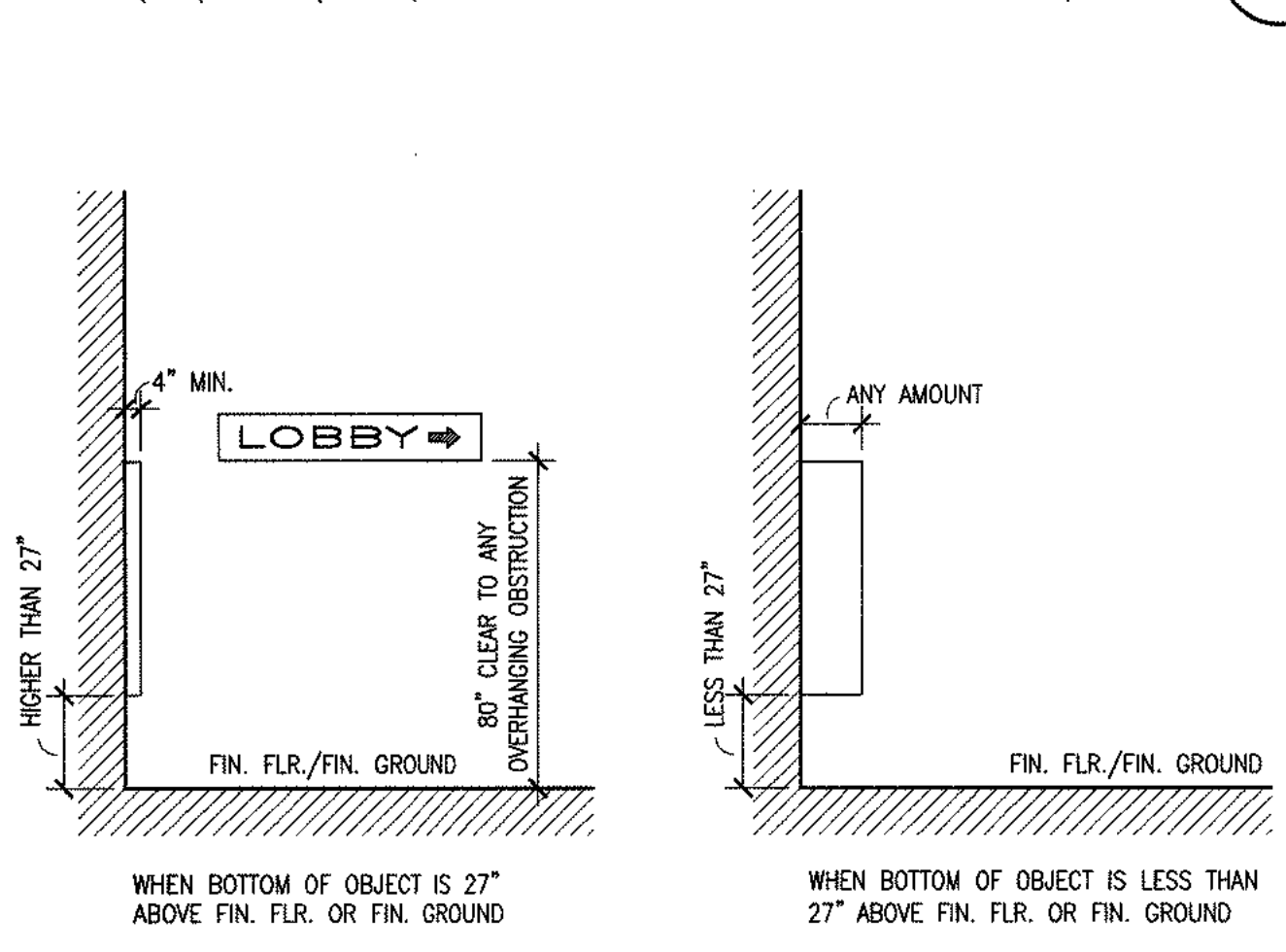
A0.04



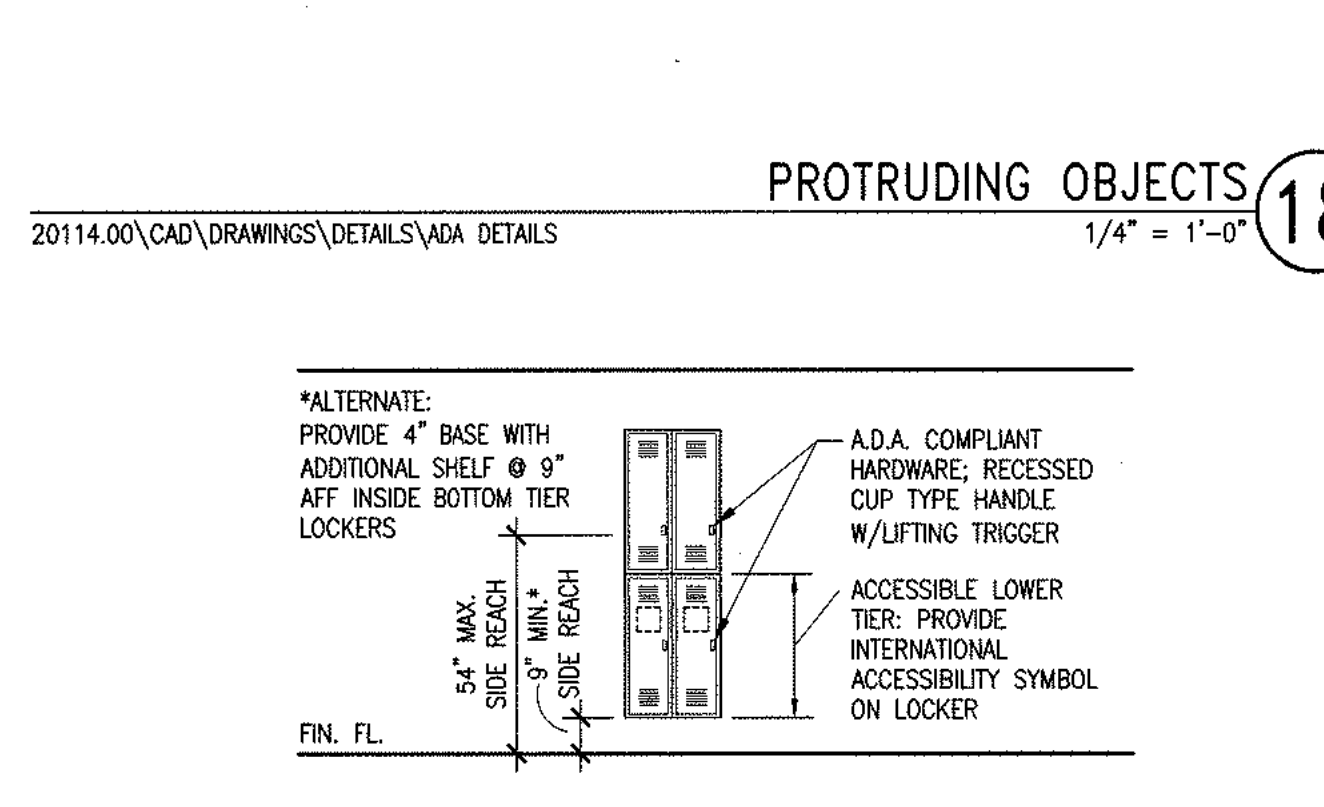
WARNING STRIPING AND HANDRAILS 20



PUBLIC PHONE - FULL HEIGHT ENCLOSURE 19



PROTRUDING OBJECTS 18

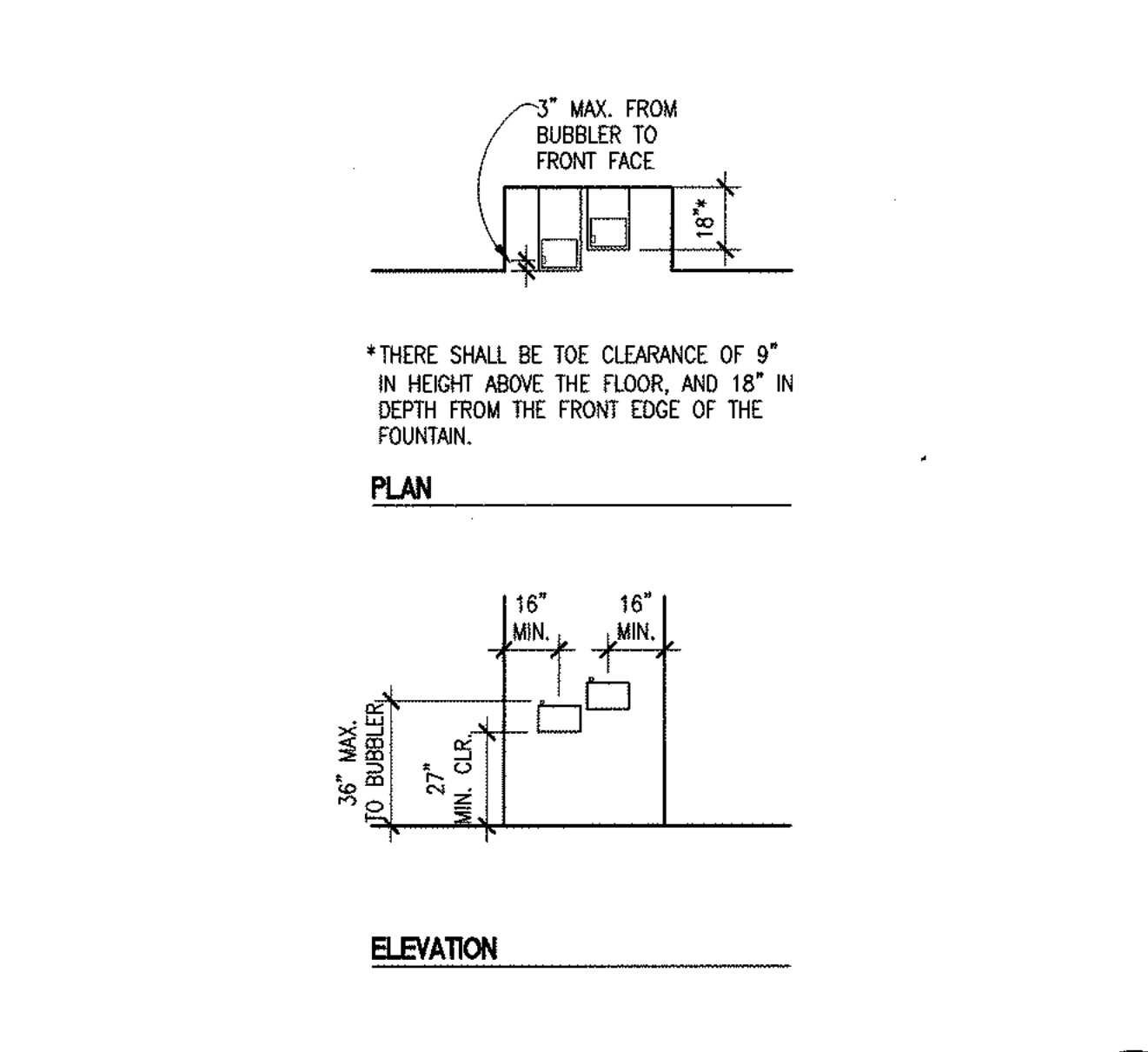


ACCESSIBLE RECESSED LOCKERS 17

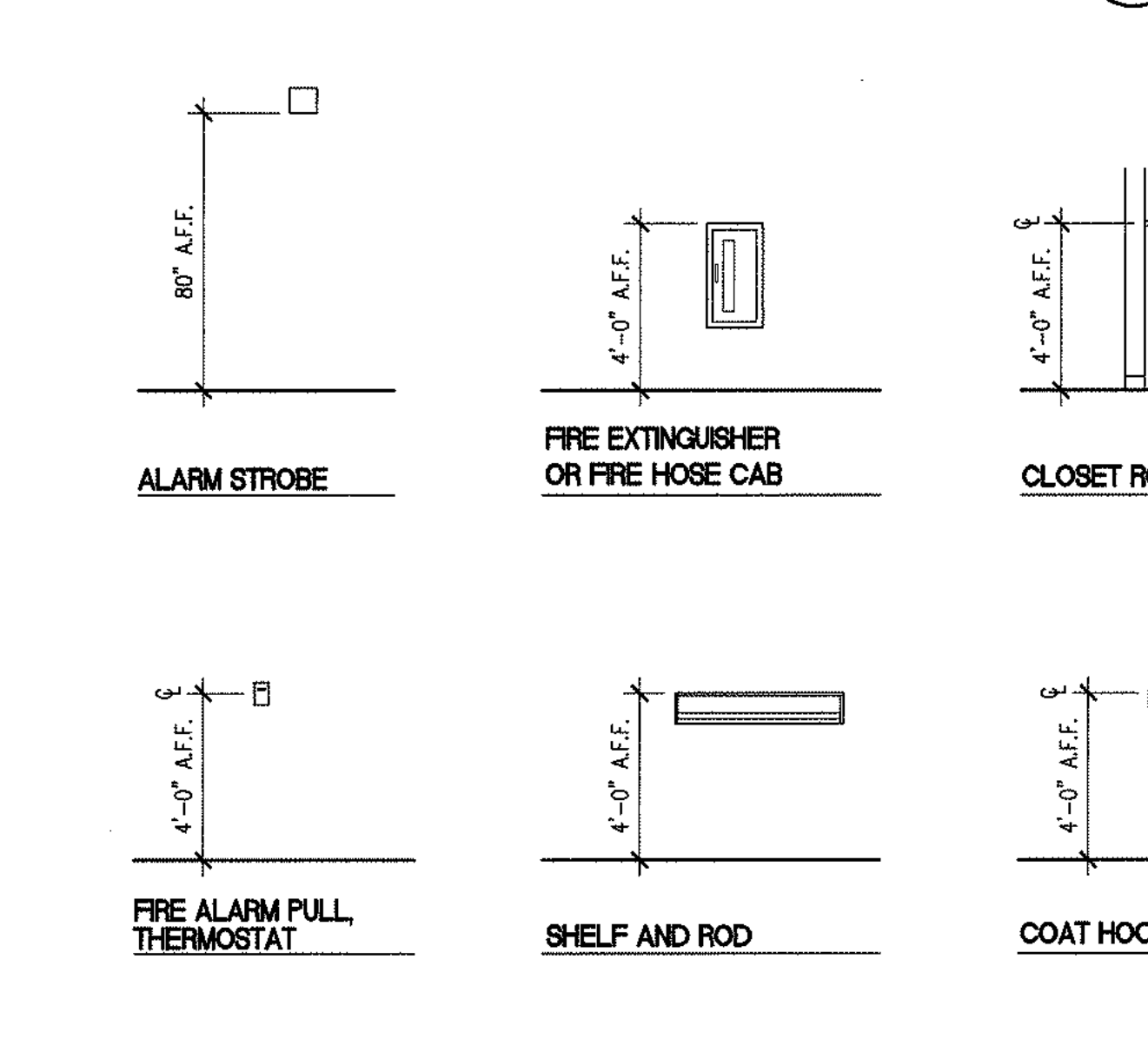


GENERAL NOTES

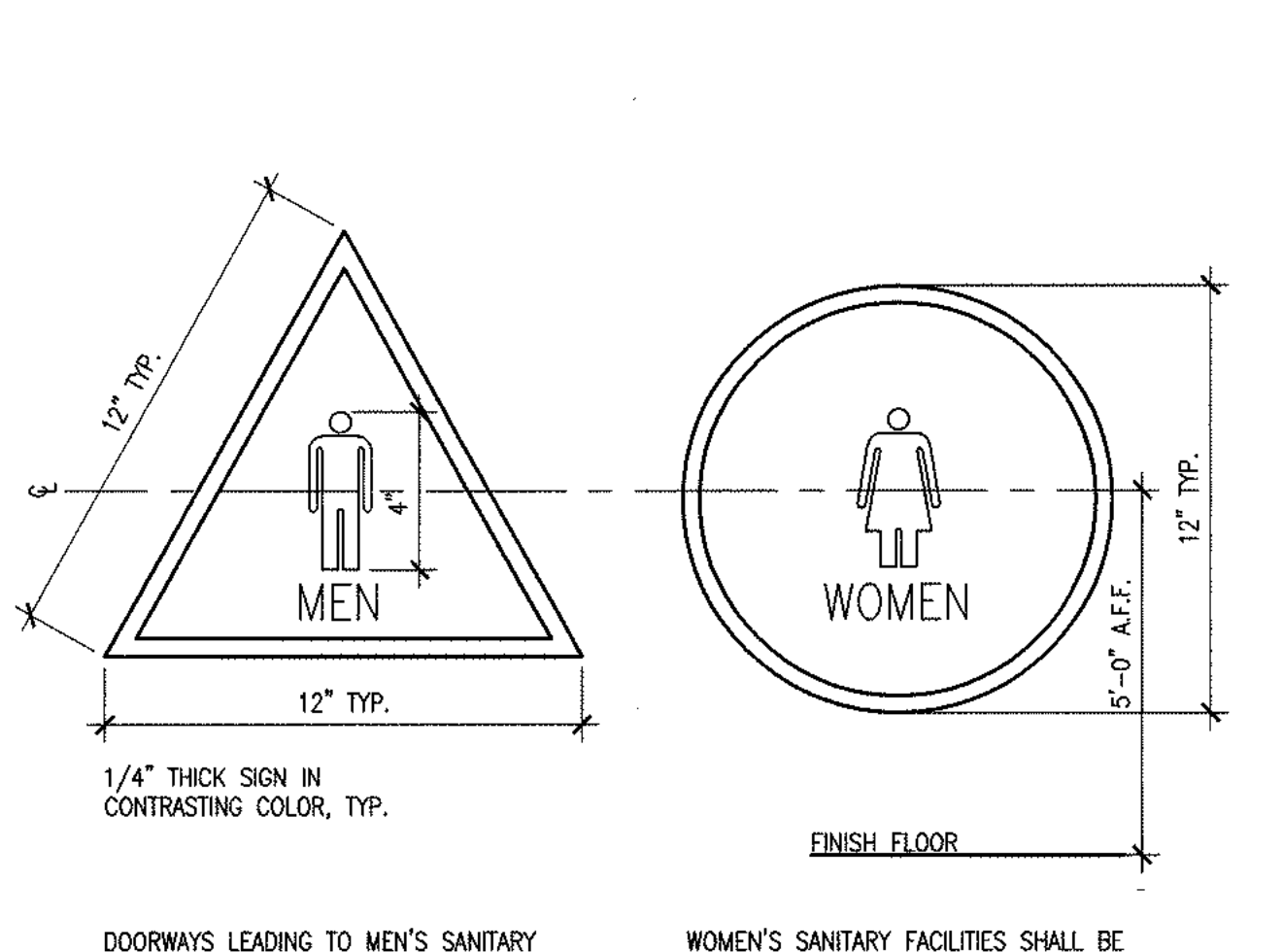
1. CLEARANCE BETWEEN GRAB BARS AND THE WALL BEHIND THE BAR MUST BE EXACTLY 1-1/2 INCHES (S.F.)



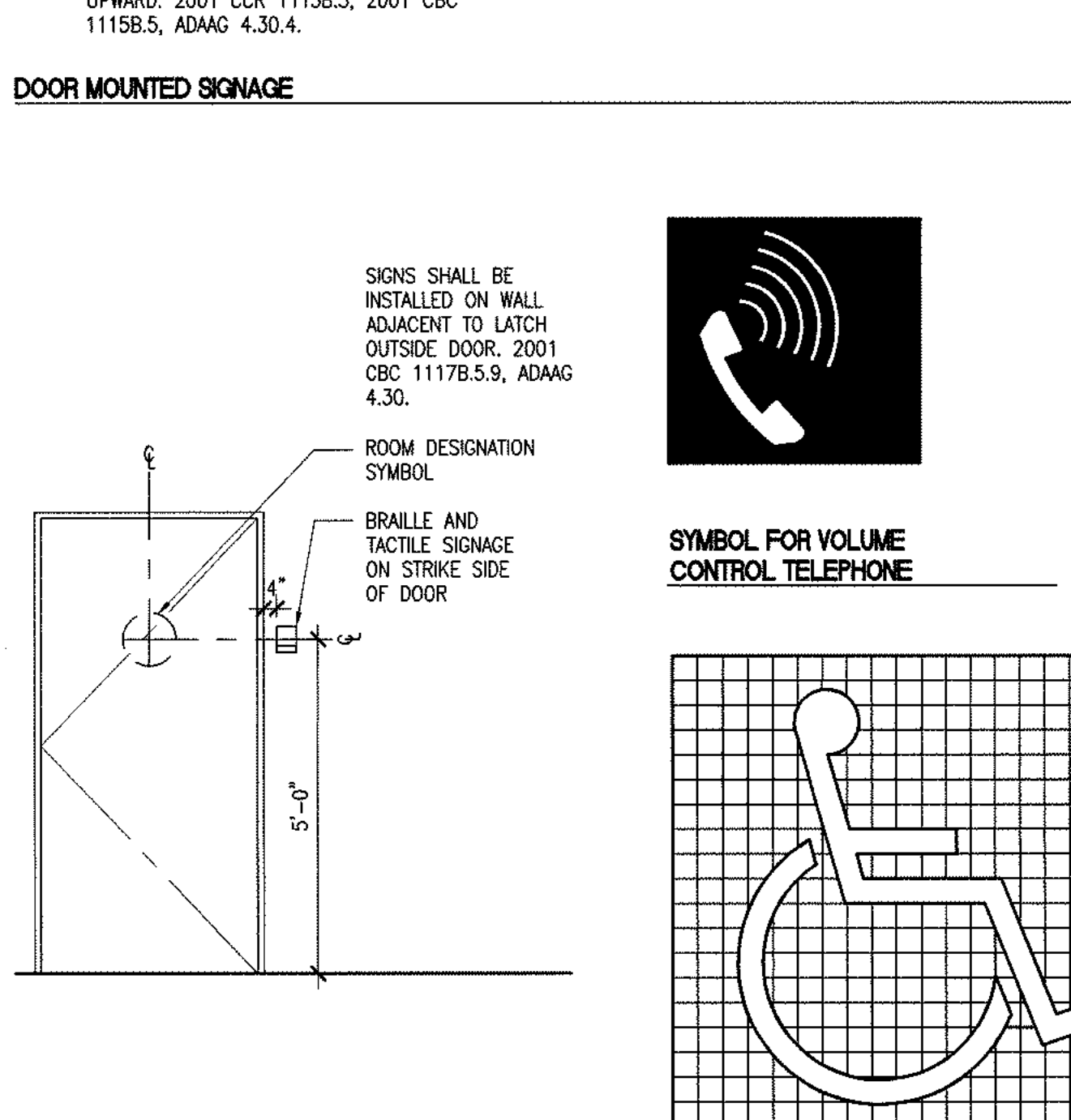
OUTLETS, SWITCHES AND EXIT SIGNS 12



OUTLETS, SWITCHES AND EXIT SIGNS 11

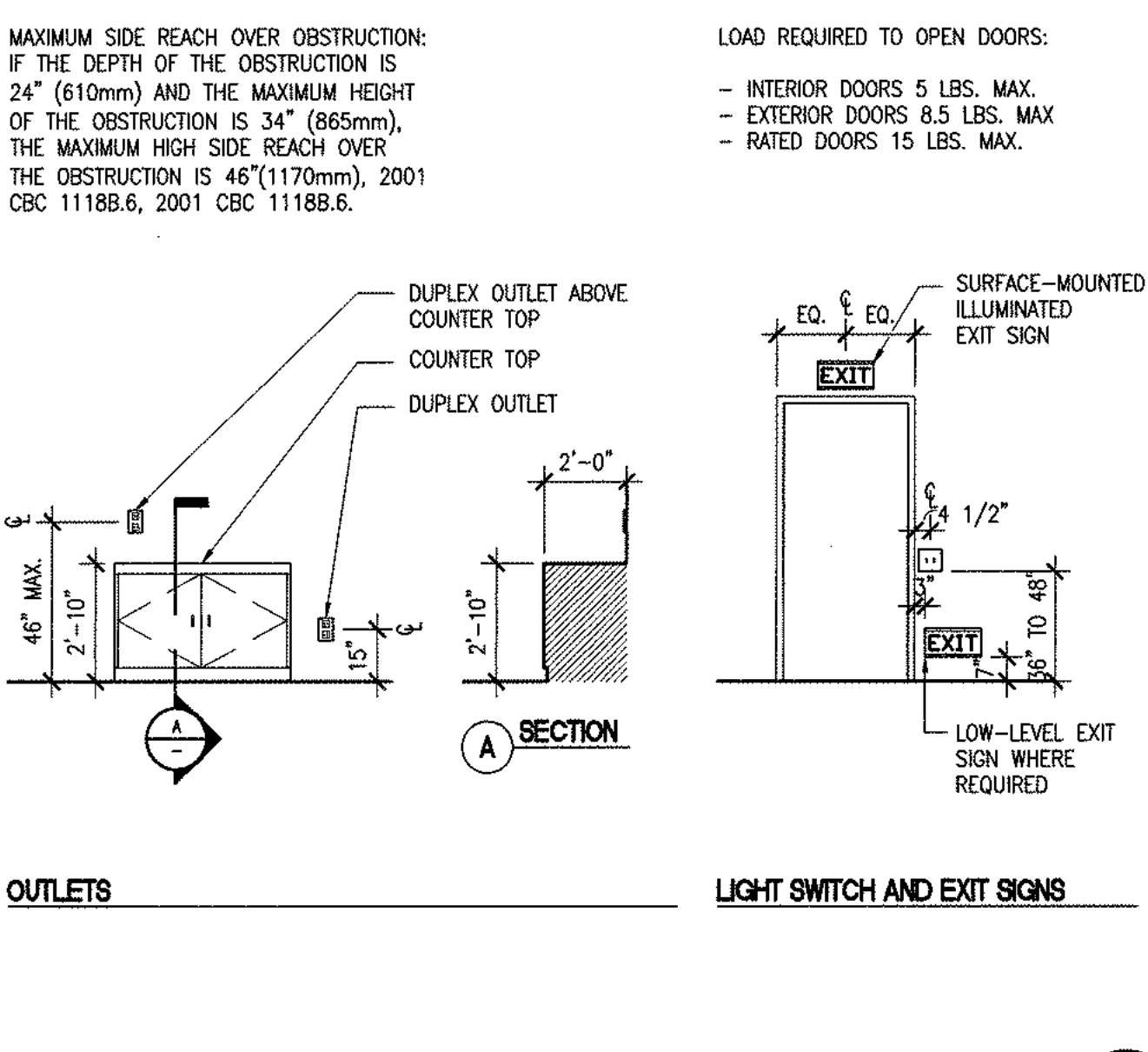


LEVEL MANEUVERING CLEARANCES @ DOORS 3

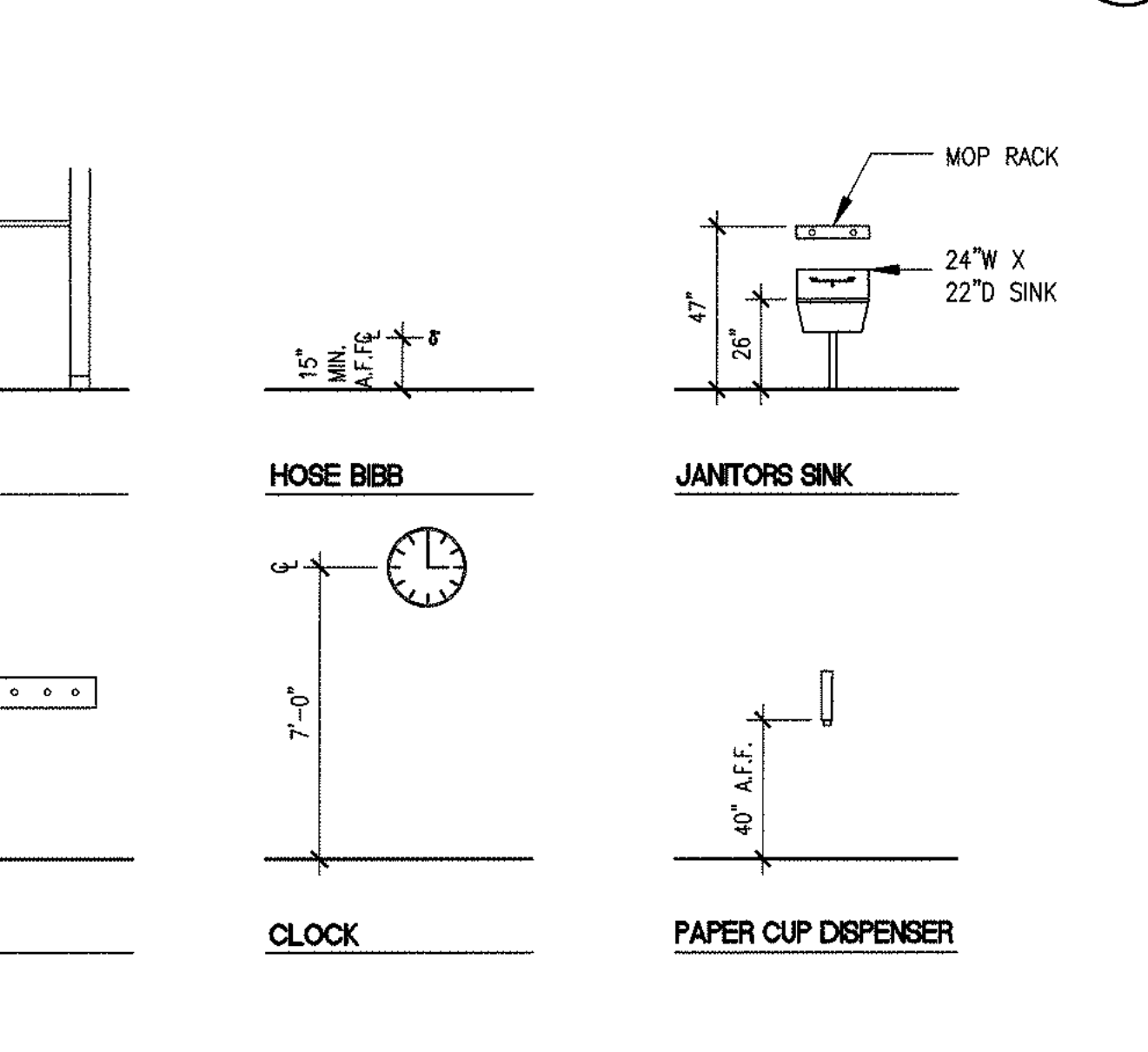


DRINKING FOUNTAIN 16

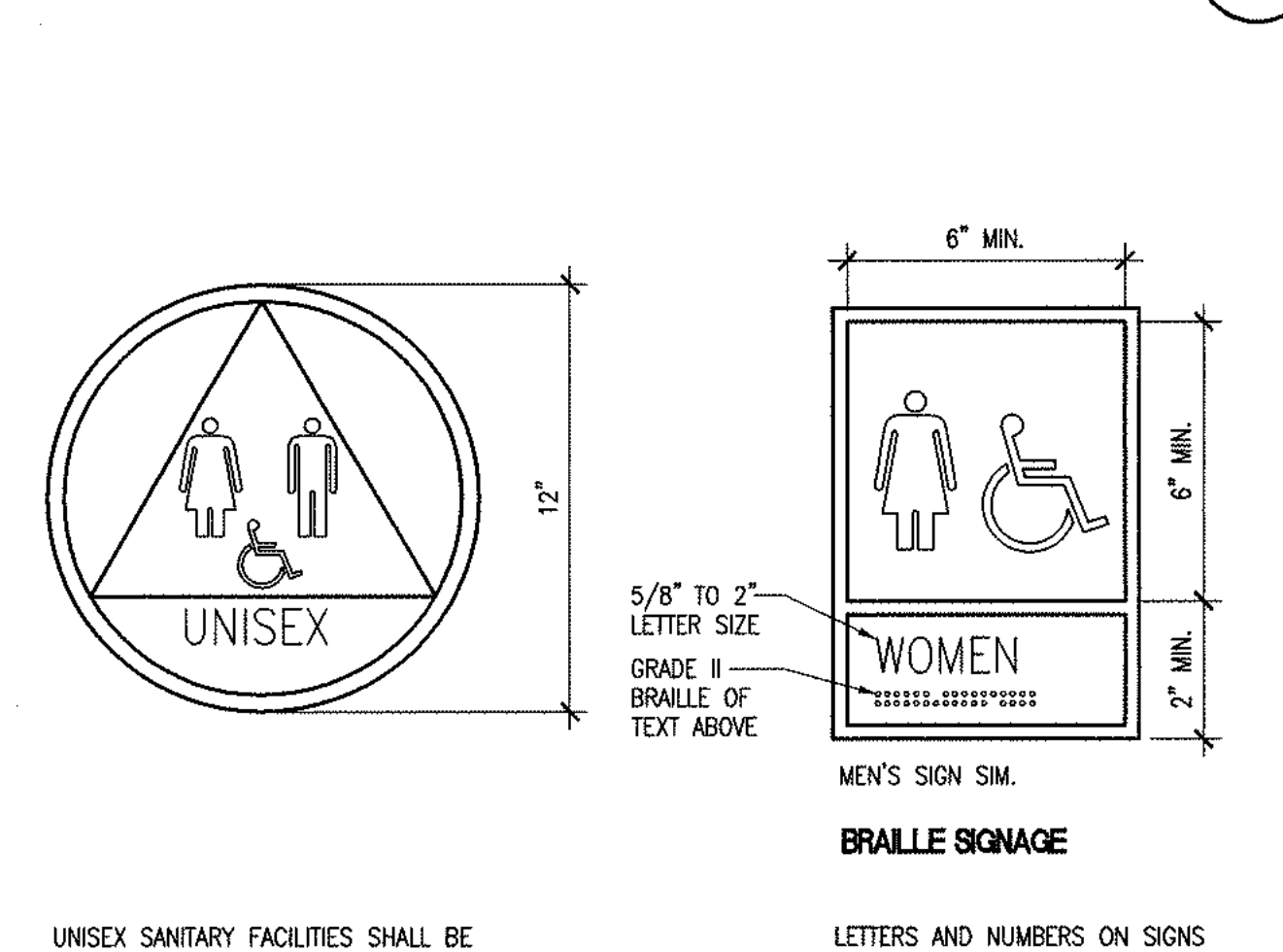
20114.00\CAD\DRAWINGS\DETAILS\ADA DETAILS 1/4" = 1'-0"



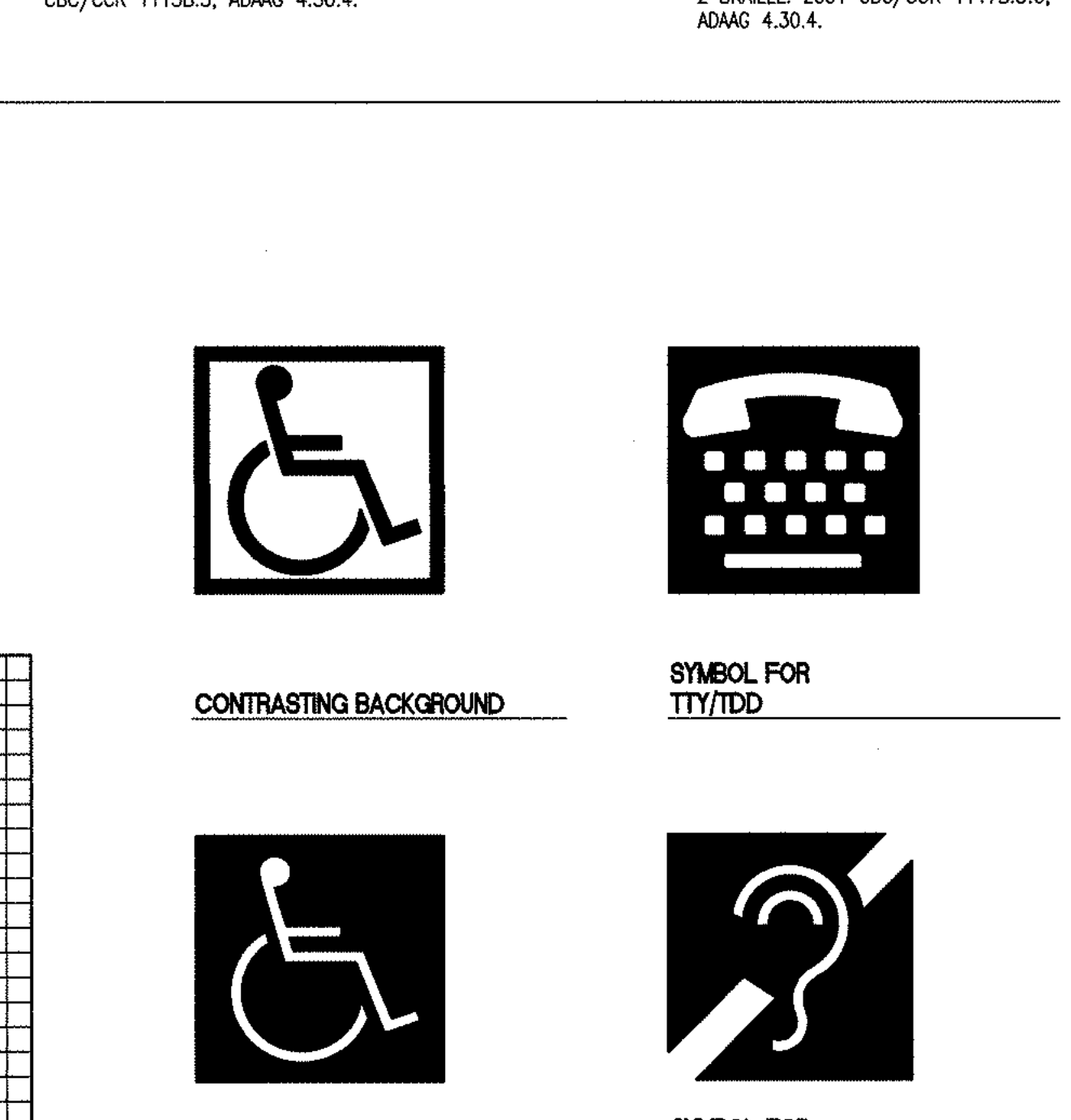
OUTLETS, SWITCHES AND EXIT SIGNS 12



OUTLETS, SWITCHES AND EXIT SIGNS 11

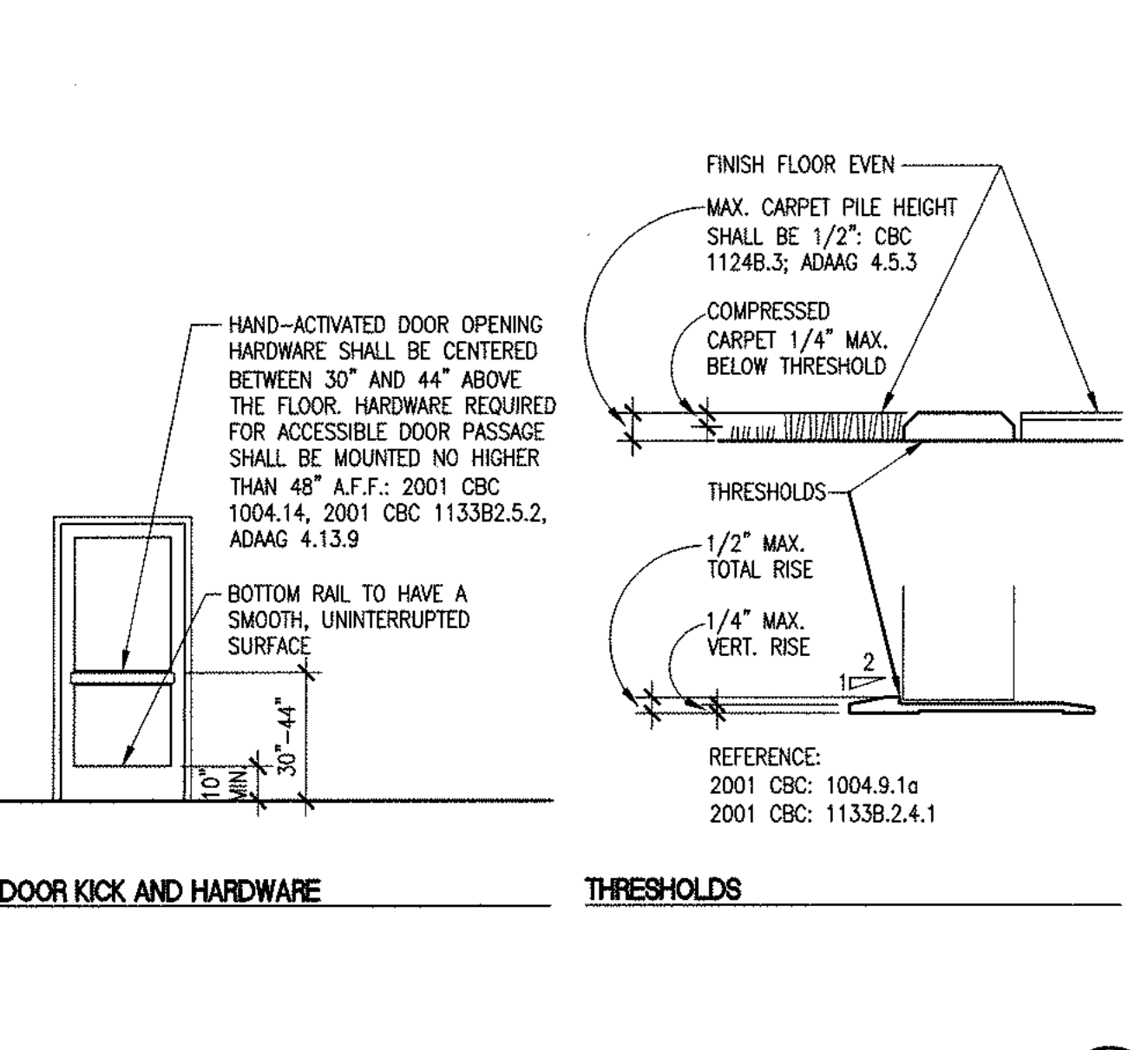


LEVEL MANEUVERING CLEARANCES @ DOORS 3

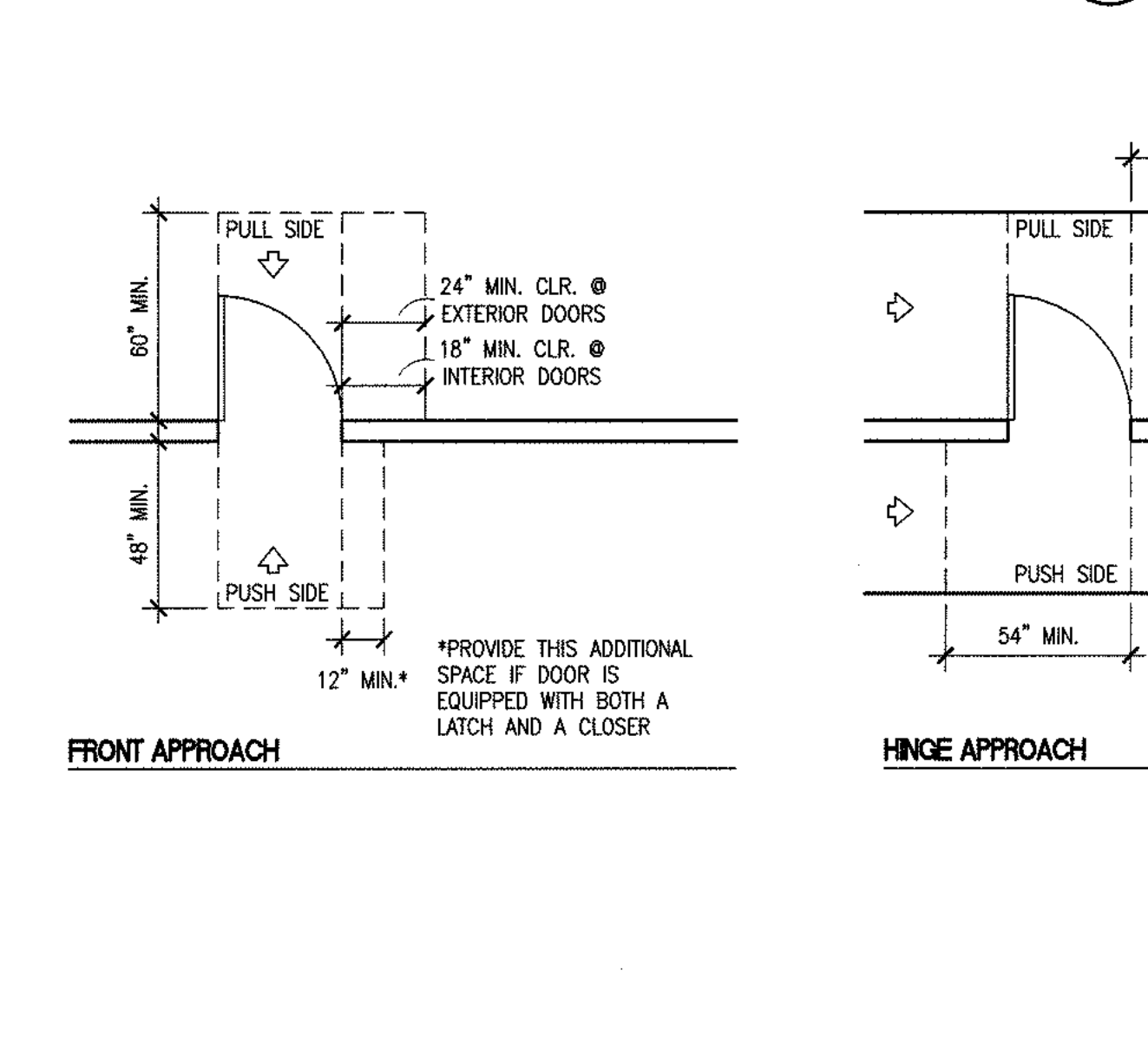


DRINKING FOUNTAIN 16

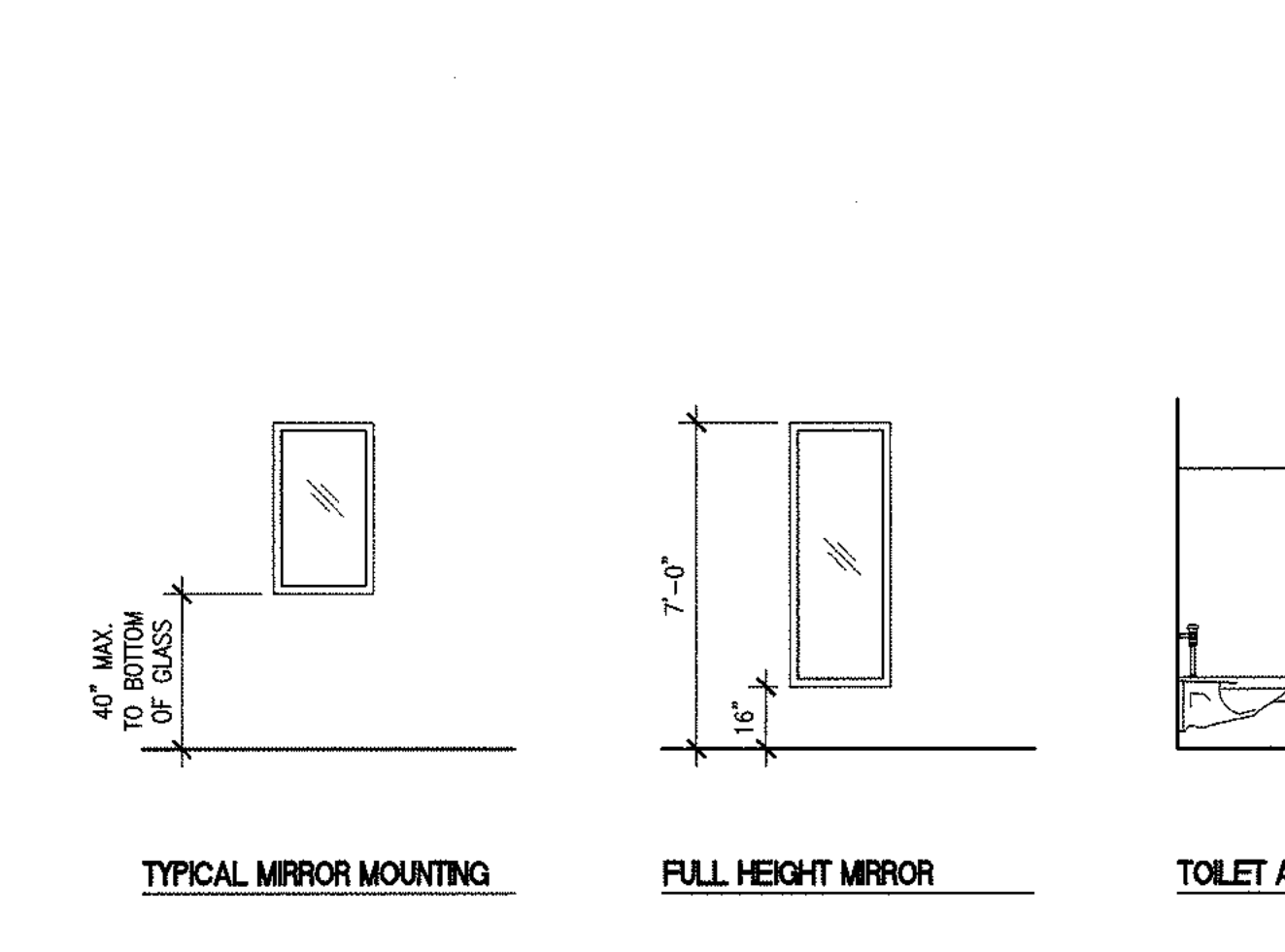
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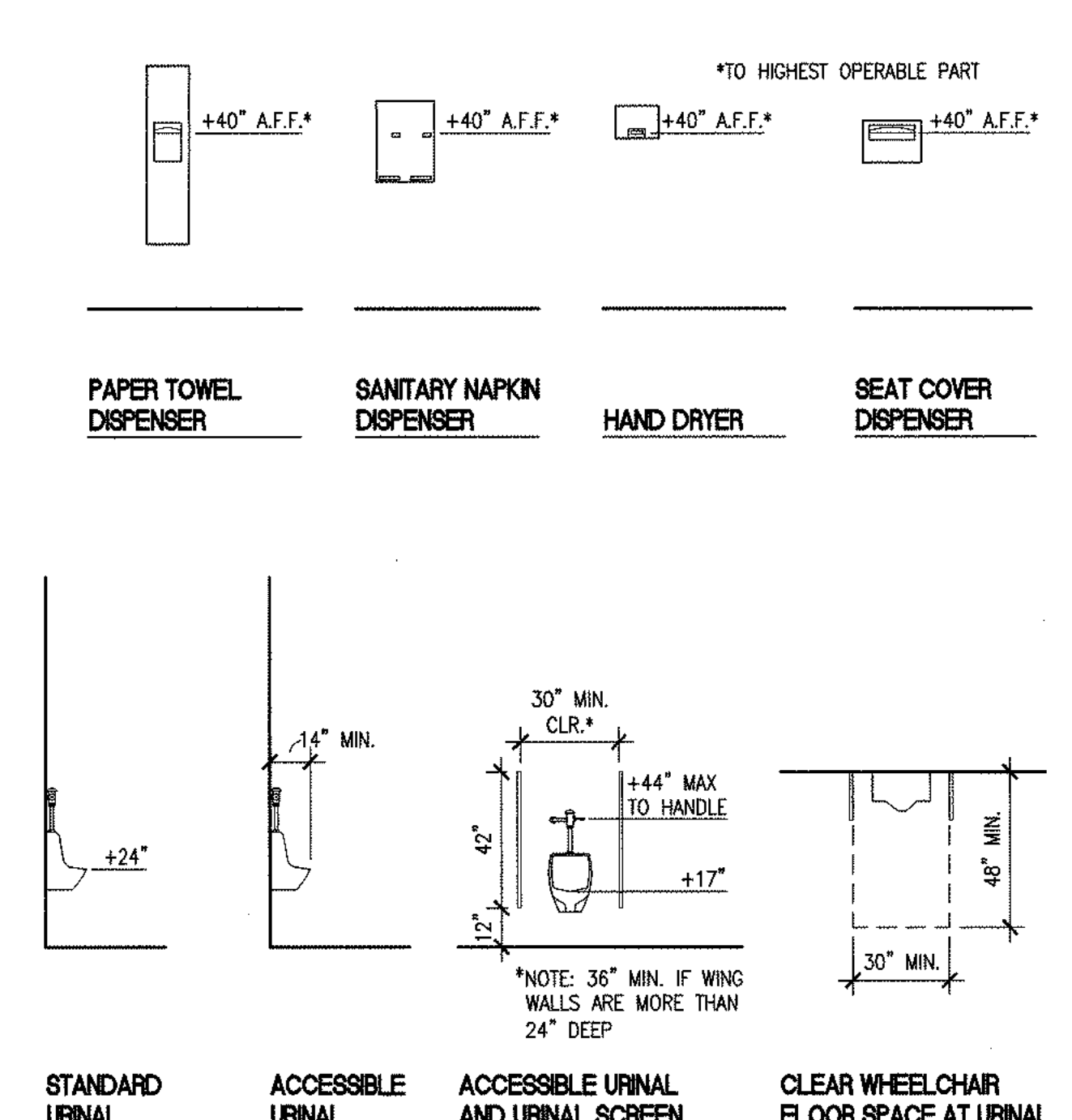
THRESHOLDS/GLASS DOORS 8



OUTLETS, SWITCHES AND EXIT SIGNS 11

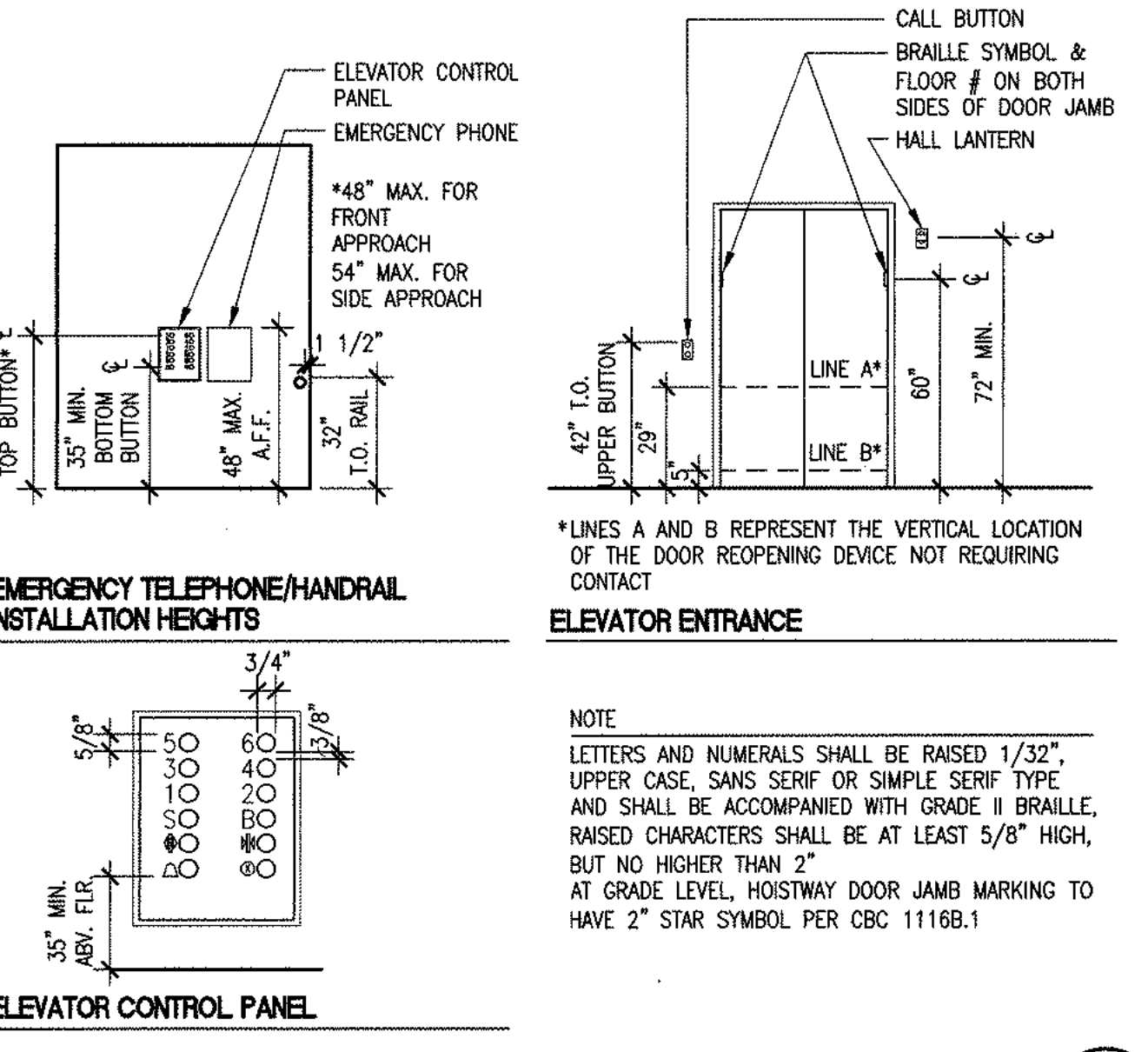


LEVEL MANEUVERING CLEARANCES @ DOORS 3

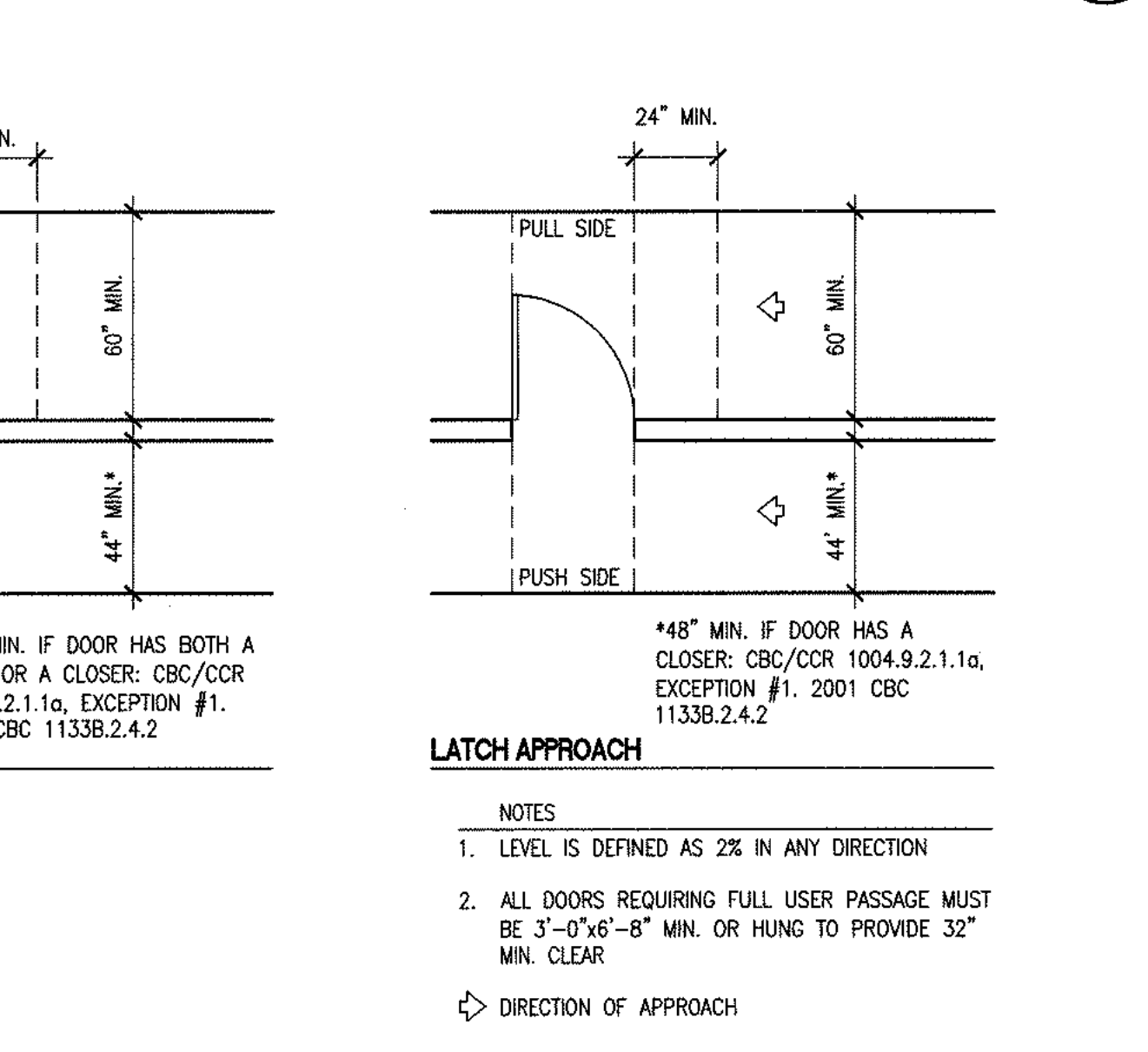


OUTLETS, SWITCHES AND EXIT SIGNS 11

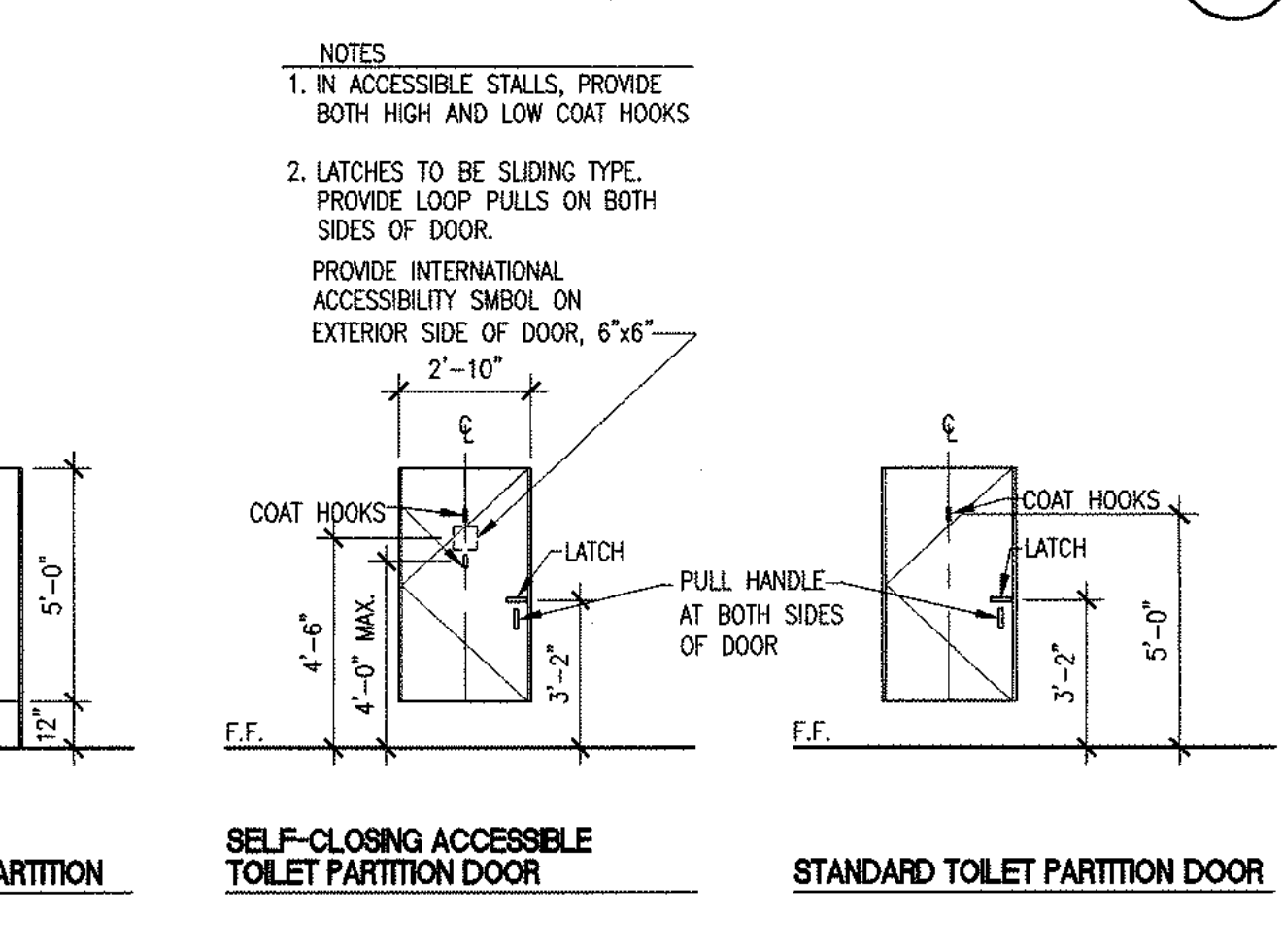
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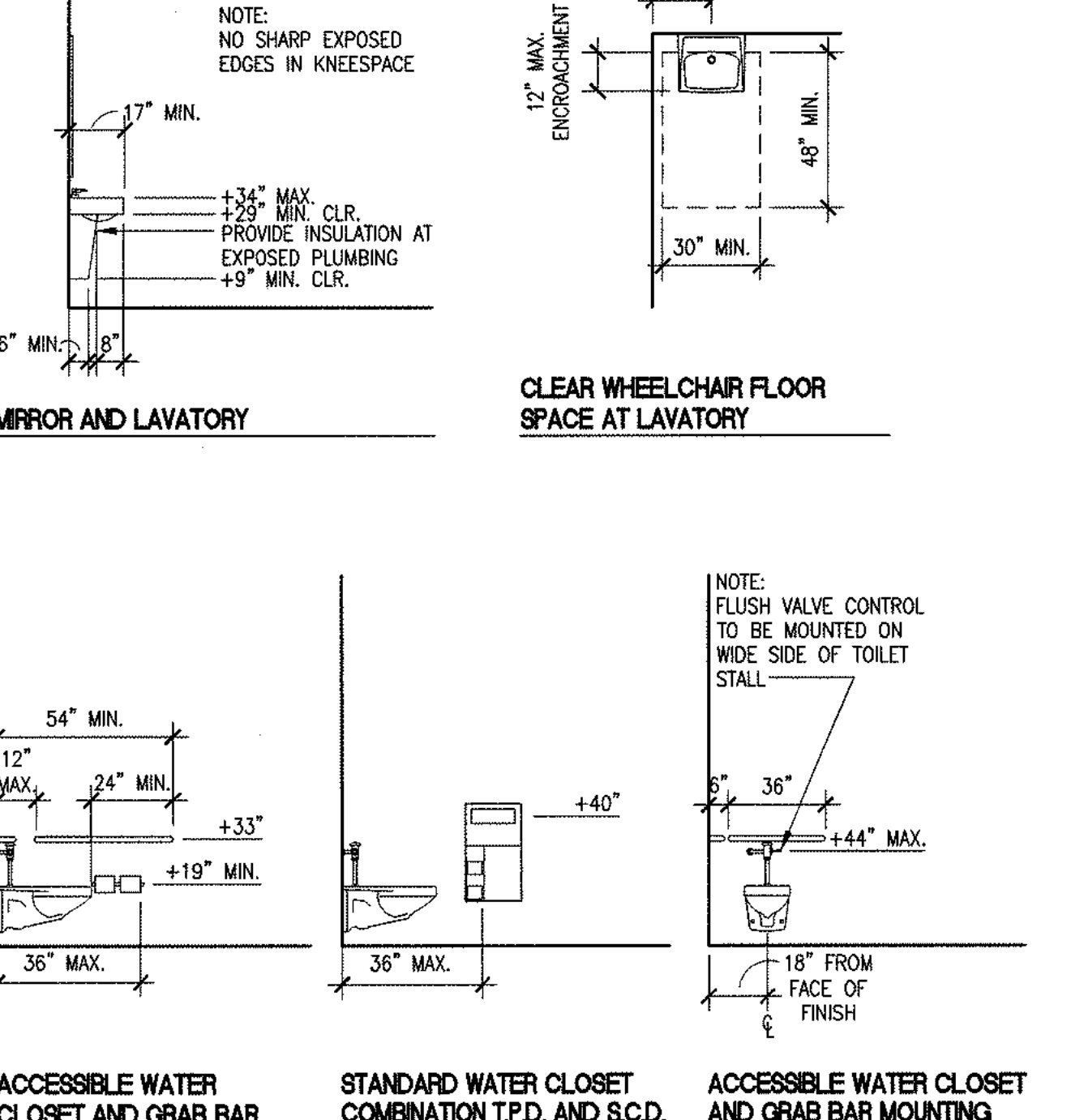
ELEVATOR ENTRANCE



LEVEL MANEUVERING CLEARANCES @ DOORS 3



LEVEL MANEUVERING CLEARANCES @ DOORS 3



LEVEL MANEUVERING CLEARANCES @ DOORS 3

20114.00\CAD\DRAWINGS\DETAILS\ADA DETAILS 1/4" = 1'-0"

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CERTIFICATE OF COMPLIANCE Part 1 of 2 ENV-1

PROJECT NAME: Cupertino Civic Center, Library DATE: 2/11/2003
PROJECT ADDRESS: 10300 Torre Avenue, Cupertino
PRINCIPAL DESIGNER - ENVELOPE: SMWM Architecture

STATEMENT OF COMPLIANCE
This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Part 1 and 2 of the California Code of Regulations.

DOCUMENTATION AUTHOR: Brandon Val Verde
The Principal Envelope Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets...

PRINCIPAL ENVELOPE DESIGNER - NAME: Brandon Val Verde
SIGNATURE: [Signature] DATE: 2/11/03
LIC #: 017420

ENVELOPE MANDATORY MEASURES: A0.06
INSTRUCTIONS TO APPLICANT: For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms...

ENVELOPE COMPLIANCE SUMMARY Part 2 of 2 ENV-1

Table with 10 columns: #, Surface Type, Framing Type, Area, U-Fac, Act. Azm, Solar Gains, Form 3 Reference, Location / Comments. Rows 1-20.

FENESTRATION SURFACES table with 10 columns: #, Type, Area, U-Fac, Act. Azm, SHGC, Glazing Type, Location / Comments. Rows 1-20.

EXTERIOR SHADING table with 10 columns: #, Exterior Shade Type, SHGC, Window Hgt. Wd., Overhang Len. Hgt., Left Fin Dist. Len. Hgt., Right Fin Dist. Len. Hgt. Rows 1-20.

ENVELOPE COMPLIANCE SUMMARY Part 2 of 2 ENV-1

Table with 10 columns: #, Surface Type, Framing Type, Area, U-Fac, Act. Azm, Solar Gains, Form 3 Reference, Location / Comments. Rows 21-40.

FENESTRATION SURFACES table with 10 columns: #, Type, Area, U-Fac, Act. Azm, SHGC, Glazing Type, Location / Comments. Rows 21-40.

EXTERIOR SHADING table with 10 columns: #, Exterior Shade Type, SHGC, Window Hgt. Wd., Overhang Len. Hgt., Left Fin Dist. Len. Hgt., Right Fin Dist. Len. Hgt. Rows 21-40.

ENVELOPE COMPLIANCE SUMMARY Part 2 of 2 ENV-1

Table with 10 columns: #, Surface Type, Framing Type, Area, U-Fac, Act. Azm, Solar Gains, Form 3 Reference, Location / Comments. Rows 1-20.

FENESTRATION SURFACES table with 10 columns: #, Type, Area, U-Fac, Act. Azm, SHGC, Glazing Type, Location / Comments. Rows 1-20.

EXTERIOR SHADING table with 10 columns: #, Exterior Shade Type, SHGC, Window Hgt. Wd., Overhang Len. Hgt., Left Fin Dist. Len. Hgt., Right Fin Dist. Len. Hgt. Rows 1-20.

ENVELOPE COMPLIANCE SUMMARY Part 2 of 2 ENV-1

Table with 10 columns: #, Surface Type, Framing Type, Area, U-Fac, Act. Azm, Solar Gains, Form 3 Reference, Location / Comments. Rows 21-40.

FENESTRATION SURFACES table with 10 columns: #, Type, Area, U-Fac, Act. Azm, SHGC, Glazing Type, Location / Comments. Rows 21-40.

EXTERIOR SHADING table with 10 columns: #, Exterior Shade Type, SHGC, Window Hgt. Wd., Overhang Len. Hgt., Left Fin Dist. Len. Hgt., Right Fin Dist. Len. Hgt. Rows 21-40.

ENVELOPE MANDATORY MEASURES ENV-MM

Table with 3 columns: DESCRIPTION, Designer, Enforcement. Rows 1-8.

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SMWM logo and contact information for architecture, interiors, planning, and graphic design. Includes addresses for Cupertino, San Francisco, and San Jose.

11-29-04 Updated Contract Documents

Professional seal for Linda A. Sobotta, Licensed Architect, No. C17420, Exp. 3/31/05. Includes 'BID SET' text.

LIBRARY TITLE 24 COMPLIANCE stamp with scale, date, and sheet number information.

ENVELOPE COMPLIANCE SUMMARY Part 2 of 2 ENV-1

PROJECT NAME		DATE		
Cupertino Civic Center, Community Hall		2/11/2003		
OPAQUE SURFACES				
#	Surface Type	Area U-Fac. Act. Area TH WYN	Solar Gains Form 3 Reference Location / Comments	
1	Roof Metal	2,000 0.043 0	12 3" rigidly insulated Built-Up Roof Community Hall Zone	
2	Roof Metal	1,900 0.043 0	12 3" rigidly insulated Built-Up Roof Community Hall Zone	
3	Roof Metal	2,900 0.043 0	12 3" rigidly insulated Built-Up Roof Community Hall Zone	
4	Wall Metal	1 0.168 0	90 1/2" Aluminum Panel Wall Community Hall Zone	
5	Wall Metal	271 0.168 0	90 1/2" Aluminum Panel Wall Community Hall Zone	
6	Wall None	595 0.135 0	90 1/2" 4" Brick / Rigid CMU Wall Community Hall Zone	
7	Door None	19 0.391 0	Aluminum Louver Community Hall Zone	
8	Wall Metal	1 0.168 0	90 1/2" Aluminum Panel Wall Community Hall Zone	
9	Wall Metal	610 0.168 0	90 1/2" R-11 Metal Stud Wall Community Hall Zone	
10	Wall None	810 0.135 0	90 1/2" 4" Brick / Rigid CMU Wall Community Hall Zone	
11	Wall Metal	1 0.168 0	90 1/2" Aluminum Panel Wall Community Hall Zone	
12	Wall Metal	271 0.168 0	90 1/2" R-11 Metal Stud Wall Community Hall Zone	
13	Wall None	640 0.135 0	90 1/2" 4" Brick / Rigid CMU Wall Community Hall Zone	
14	Door None	95 0.361 0	Aluminum Louver Community Hall Zone	
15	Wall Metal	1 0.168 0	90 1/2" Aluminum Panel Wall Community Hall Zone	
16	Wall Metal	295 0.168 0	90 1/2" R-11 Metal Stud Wall Community Hall Zone	
17	Wall None	850 0.135 0	90 1/2" 4" Brick / Rigid CMU Wall Community Hall Zone	
FENESTRATION SURFACES				
Site Assembled Glazing <input type="checkbox"/> Check box if Building is 100,000 sq ft of GFA and 10,000 sq ft vertical glazing then NFRC Certification is required. Follow NFRC 100-99 Procedures and submit NFRC Label Certificate Form.				
#	Type	Area U-Fac. Act. Area SHGC	Glazing Type Location / Comments	
1	Window	297 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
2	Window	48 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
3	Window	249 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
4	Window	42 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
5	Window	83 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
6	Window	407 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
7	Window	45 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
8	Window	257 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
9	Window	48 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
10	Window	249 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
11	Window	42 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
12	Window	48 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
13	Window	401 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
14	Window	96 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
15	Window	102 0.570 0	0.40 Vitroon SolarScreen 2000 VE Community Hall Zone	
EXTERIOR SHADING				
#	Exterior Shade Type	SHGC Window Hgt. Wd. Overhang Len. Hgt. L.Ext.RExt. Left Fin Dist. Len. Hgt. Right Fin Dist. Len. Hgt.		
1	None	0.76		
2	None	0.76		
3	None	0.76		
4	None	0.76		
5	None	0.76		
6	None	0.76		
7	None	0.76		
8	None	0.76		
9	None	0.76		
10	None	0.76		
11	None	0.76		
12	None	0.76		
13	None	0.76		
14	None	0.76		
15	None	0.76		

CERTIFICATE OF COMPLIANCE Part 1 of 2 ENV-1

PROJECT NAME: Cupertino Civic Center, Community Hall
 PROJECT ADDRESS: 10300 Torre Avenue, Cupertino
 DATE: 2/11/2003
 BUILDING PERMIT #: [Blank]
 TELEPHONE: 415-546-0400
 DOCUMENTATION AUTHOR: Gabel Dodd / EnergySoft, Inc. (415) 883-5900
 CHECKED BY: [Blank]
 GENERAL INFORMATION: DATE OF PLANS: 01-20-03 BUILDING CONDITIONED FLOOR AREA: 6,409 sq.ft. CLIMATE ZONE: 4
 BUILDING TYPE: [X] NONRESIDENTIAL [] HIGH RESE. RESIDENTIAL HOTEL/MOTEL GUEST ROOM
 PHASE OF CONSTRUCTION: [X] NEW CONSTRUCTION [] ADDITION [] ALTERATION [] EXISTING + ADDITION
 METHOD OF COMPLIANCE: [] COMPONENT [X] OVERALL ENVELOPE [] PERFORMANCE
 STATEMENT OF COMPLIANCE: The certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 5 of the California Code of Regulations. This certificate applies only to building envelope requirements.
 The documentation preparer hereby certifies that the document is accurate and complete.
 DOCUMENTATION AUTHOR: Brandon Val Verde (Signature) DATE: 2/11/03
 The Principal Envelope Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the envelope requirements contained in Sections 110, 116 through 119, and 142, 143 or 145 of Title 24, Part 6.
 Please check one:
 I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the state of California as a civil engineer or mechanical engineer, or am a licensed architect.
 I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
 I affirm that I am eligible under Division 5 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538, and 6737.1.
 PRINCIPAL ENVELOPE DESIGNER - NAME: SMWM Architecture SIGNATURE: [Blank] DATE: C17420
 ENVELOPE MANDATORY MEASURES: Indicate location on plans of Note Block for Mandatory Measures: A0.07
 INSTRUCTIONS TO APPLICANT: For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.
 ENV-1: Required on plans for all submissions. Part 2 may be incorporated in schedules on plans.
 ENV-2: Used for all submissions; choose appropriate version depending on method of envelope compliance.
 ENV-3: Optional. Use if default U-values are not used. Choose appropriate version for assembly U-value to be calculated.

ENVELOPE MANDATORY MEASURES ENV-MM

PROJECT NAME		DATE	
Cupertino Civic Center, Community Hall		2/11/2003	
DESCRIPTION	Designer	Enforcement	
<input checked="" type="checkbox"/> § 110(a) Installed Insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20, Chapter 4, Article 3.			
<input checked="" type="checkbox"/> § 110(b) All Insulating Materials shall be installed in compliance with the flammability rating and smoke density requirements of Sections 706 and 707 of Title 24, Part 2.			
<input checked="" type="checkbox"/> § 117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.			
<input checked="" type="checkbox"/> § 118(b) Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).			
<input checked="" type="checkbox"/> § 116(a) Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-5E of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.			
<input checked="" type="checkbox"/> § 118(e) Demising Walls in Nonresidential Buildings: The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.			

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985 Market Street, 3rd floor, San Francisco, CA 94103
 WWW.SMWM.COM
 architecture
 interiors
 planning
 graphic design
 City of Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3393 F
 Sandis Humber Jones
 590 Merilo Drive, Suite 1
 Rocklin, CA 95765
 916 435 2400 T
 916 435 2410 F
 Hargreaves Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F
 Forell/Eisesser Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F
 Flack + Kurtz
 405 Howard Street
 Suite 500
 San Francisco, CA 94105
 415 398 3833 T
 415 433 5311 F
 Architectural Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

11-29-04 Updated Contract Documents

stamp: LICENSED ARCHITECT
 LIBRA A. SERRA
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA
 issue: BID SET
 sheet title:

COMMUNITY HALL
 TITLE 24
 COMPLIANCE
 scale: NONE date: 2003.04.18
 drawn by: LR project number: 20114.00
 sheet number: A0.07

City of
 Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3333 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

Forell/Elsesser
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

Flack + Kurtz
 343 Sansome Street
 Suite 450
 San Francisco, CA 94104
 415 398 3833 T
 415 433 5311 F

Architectural
 Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

2003.09.11 CCD#006

11-29-04 Updated
 Contract Documents

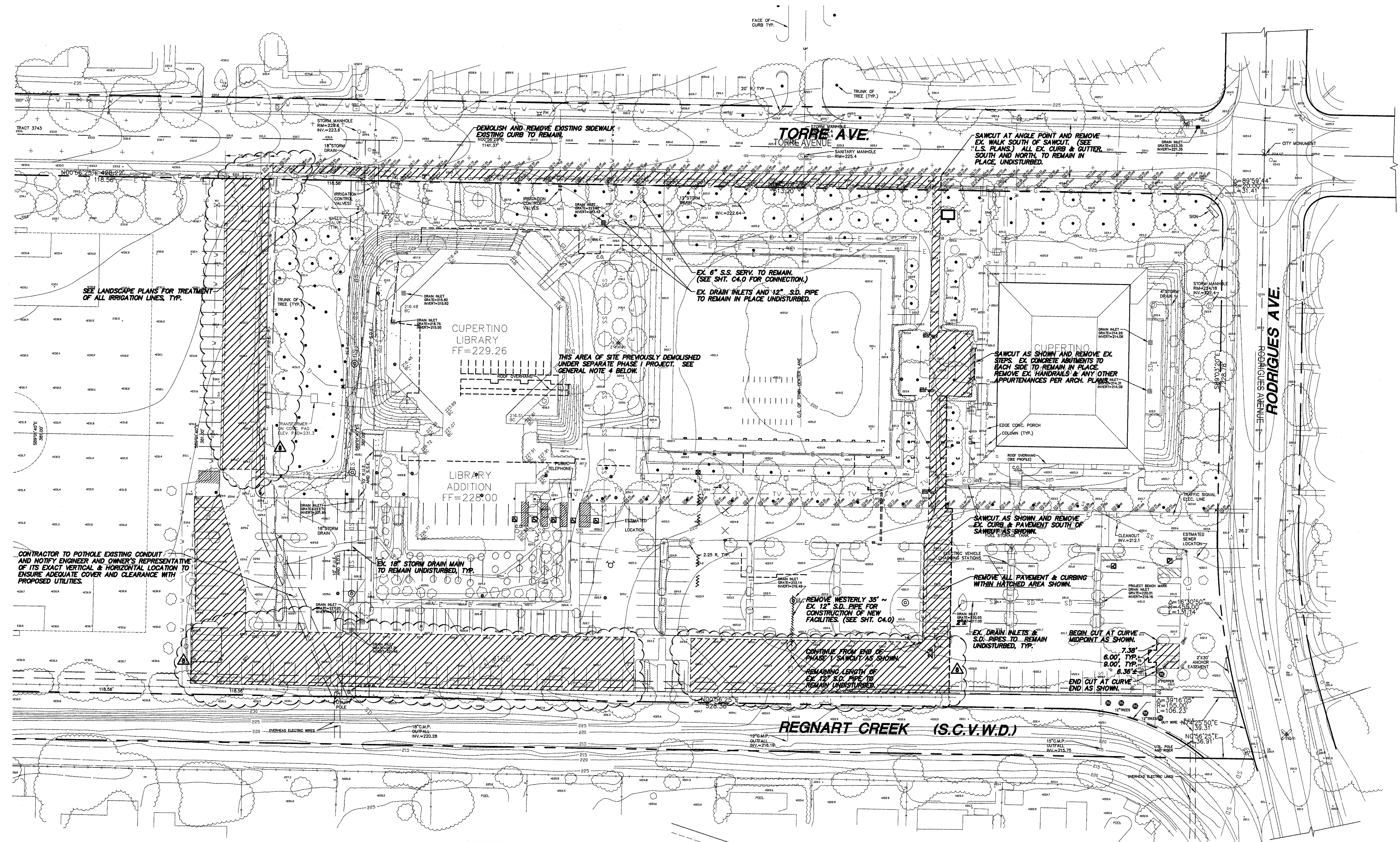
SANDIS HUMBER JONES
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 Tel: (916) 435-2400 Fax: (916) 435-2410

BID SET

CIVIL DEMOLITION
 PLAN

Scale: 1"=30'
 Date: 2003.09.18
 Drawn by: R.J.J.
 Project number: 20114.00
 Sheet number: 20114.00

C1.0



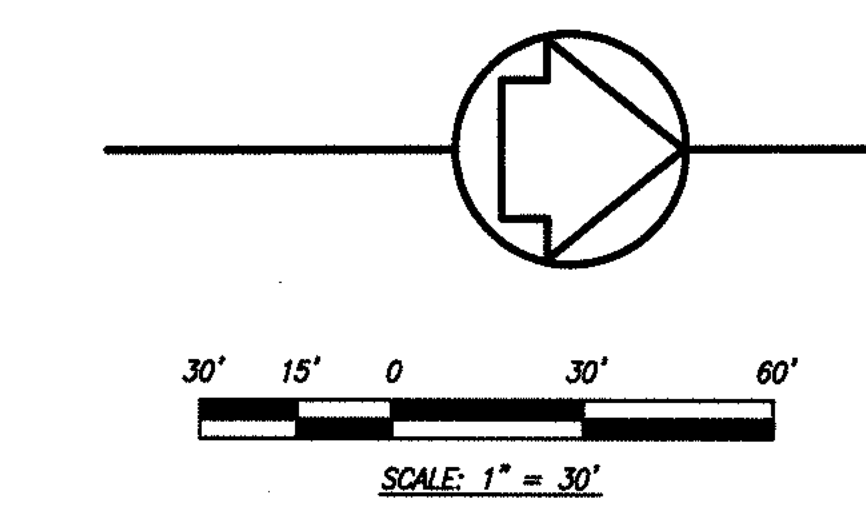
GENERAL NOTES

1. THE CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDINANCE PERTAINING TO EXCAVATIONS AND TRENCHES.
2. THE CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT U.S.A. 800-227-2600 TWO WORKING DAYS PRIOR TO BEGINNING WORK TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED.
3. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE CITY, UTILITY OWNER NOR THE CIVIL ENGINEER ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
4. THE CONTRACTOR SHALL COORDINATE THIS DEMOLITION PLAN AND THE CIVIL PLANS SHOWN HEREON WITH THE PHASE 1 - DEMOLITION/SITE PREPARATION PLANS DATED NOVEMBER 8, 2002 PREPARED FOR THIS PROJECT. PHASE 2 CONTRACTOR TO BE FULLY FAMILIAR WITH CONDITION OF SITE PRIOR TO BIDDING AND NO ADDITIONAL CHANGE ORDERS WILL BE ALLOWED FOR ANY UNKNOWN ITEMS.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL NECESSARY UTILITY RELOCATIONS AS NECESSARY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL EXISTING SURVEY MONUMENTS AND ANY MONUMENTS OBLITERATED OR DAMAGED DURING CONSTRUCTION WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL REVIEW THE PLANS AND MAKE HIS OWN ASSESSMENT OF EARTHWORK BALANCE, EXCESS OR SHORTAGE. HE SHALL PREPARE HIS BID SO AS TO INCLUDE ANY EXCESS WHICH MAY OCCUR AND AS TO AVAILABLE SPOIL SITE IN THE EVENT OF AN EXCESS, AND AS TO AVAILABLE MATERIAL SOURCES IN THE EVENT OF A SHORTAGE. SHOULD THERE BE AN EXCESS OF MATERIAL, THE CONTRACTOR SHALL NOT DEPOSIT MATERIAL IN ANY NATURAL STREAMS, WETLANDS, ETC. HIS BID SHALL INCLUDE ALL HAULING COSTS IF HAULING IS NECESSARY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO PROJECT EARTHWORK EXCESS OR SHORTAGE.
8. IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE CIVIL ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS AND PERSONS ENGAGED UPON THE CONTRACT.
9. THE CITY HAS FILED N.O.I. AND SWPPP. CONTRACTOR TO FOLLOW ALL REQUIREMENTS OF THE SWPPP.
10. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE CIVIL ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THE SURVEY.
11. TOPOGRAPHY SHOWN HAS BEEN PROVIDED BY NELSON ENGINEERS (SEE SURVEY SHEETS.) SANDIS HUMBER JONES ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY AND VERIFICATION OF ALL ELEVATIONS & LOCATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE PRIOR TO BEGINNING WORK.

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from sole negligence of design professional.

Civil Engineers &
 Land Surveyors
 of California (CELSOC)

UNAUTHORIZED CHANGES AND USES
 CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of the plans.



LEGEND

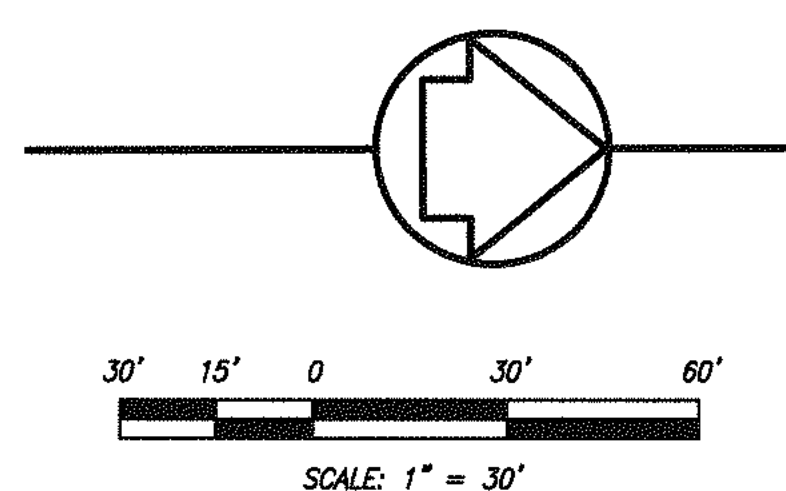
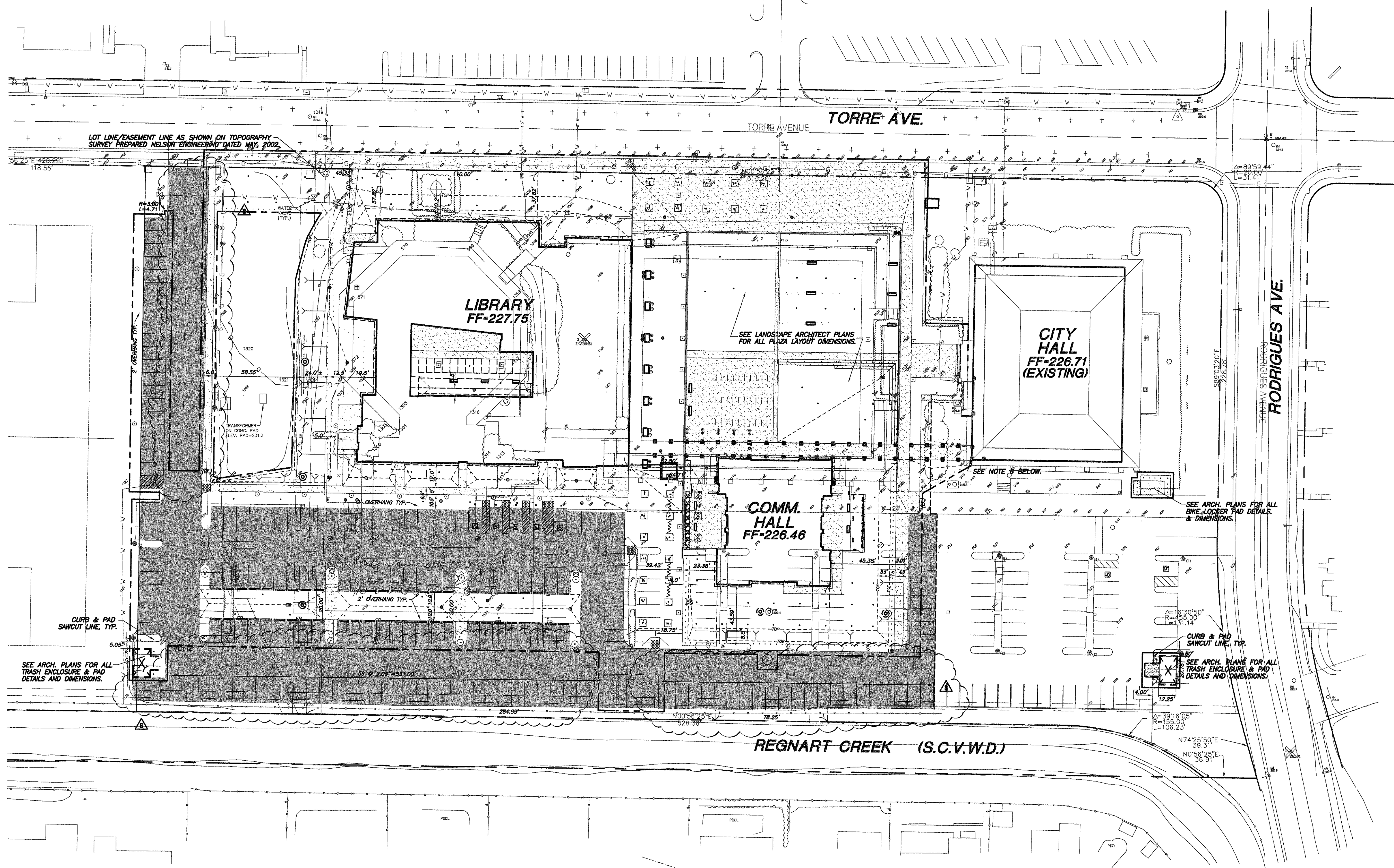
--- EX. SAWCUT LINE
 (PER PHASE 1 PLANS. SEE GEN. NOTE 4 THIS SHEET.)

--- PROP. SAWCUT LINE

▨ PROP. AREA OF PAVEMENT/CURB & SIDEWALK REMOVAL

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NOTES TO CONTRACTOR

1. ALL DIMENSIONS SHOWN ARE TO THE FACE-OF-CURB, FLOWLINE OF CURB, OR TO THE BUILDING GRIDLINE.
2. THIS HORIZONTAL CONTROL PLAN IS INTENDED TO BE COORDINATED WITH THE ARCHITECT'S SITE PLAN AND LANDSCAPE ARCHITECT'S SITE PLAN. ALL DIMENSIONING OF PLAZA & HARDSCAPES SURROUNDING BUILDINGS PER LANDSCAPE ARCHITECT'S PLANS. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE REGARDING CONFLICTS PRIOR TO CONTINUING WORK.
3. ALL STRIPING TO BE PER THE DETAILS SHOWN ON SHEET C6.0.
4. TRASH ENCLOSURE AND CONCRETE PAD, SIDEWALKS, FENCING, SIGN LOCATIONS, ETC. ARE PER THE ARCHITECT PLANS & DETAILS.
5. ALL HANDICAP ACCESS CURB RAMPS SHALL BE CONSTRUCTED TO LENGTHS SUCH THAT RAMP SLOPES ARE 1:12 AND FLARES DO NOT EXCEED 1:12 SLOPE (WHERE APPLICABLE, SEE GRADING PLAN). CONTRACTOR SHALL ENSURE THAT ALL HANDICAPPED PATHS OF TRAVEL ARE ACCESSIBLE PER THE MORE STRINGENT OF EITHER STATE OR FEDERAL CODES.
6. CENTERLINE OF ARCADE SHALL BE CENTERED ON SPACE BETWEEN EX. CITY HALL COLUMNS. (LOCATED PER NELSON ENGINEERING SURVEY, SEE ARCHITECT PLANS.) CONTRACTOR TO VERIFY THE EX. FIELD LOCATIONS OF THE COLUMNS AND NOTIFY THE OWNER'S REPRESENTATIVE, ARCHITECT, AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK. CONTRACTOR TO HAVE CITY APPROVAL OF THE LAYOUT OF THE ENTIRE SITE BEFORE PROCEEDING.

LEGEND

- | | | | |
|-----|-------------------------------------------------------------|-----|-----------------------------------------------------------------------|
| --- | PROP. RIDGE OR GRADE BREAK (SEE SHT. C3.0) | --- | PROP. TRENCH DRAIN (SEE SHT. C3.0) |
| --- | PROP. TOP OR TOE OF SLOPE (SEE SHT. C3.0) | --- | PROP. STALL STRIPING (PER DETAILS ON SHT. C6.0) |
| --- | PROP. EDGE-OF-PAVEMENT/FLUSH CURB (PER DETAIL ON SHT. C6.0) | --- | PROP. AREA OF A.C. PAVEMENT (SEE SHT. C3.0) |
| --- | PROP. VERTICAL CURB (PER DETAIL ON SHT. C6.0) | --- | PROP. AREA OF CONCRETE/HARDSCAPE (SEE ARCHITECT'S PLANS FOR DETAILS.) |
| --- | PROP. CURB & GUTTER (PER DETAIL ON SHT. C6.0) | --- | EX. SAWCUT LINE (PER PHASE T PLANS.) |
| --- | PROP. WHEEL STOP (PER DETAIL ON SHT. C6.0) | --- | PROP. SAWCUT LINE (SEE SHT. C1.0) |
| --- | PROP. CATCH BASIN (PER DETAIL ON SHT. C6.0) | | |
| --- | BLDG. GRIDLINE (PER ARCHITECTURAL PLANS) | | |

SMMW
architecture
interiors
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graphic design

880 Market Street, 3rd Floor, San Francisco, CA 94103
415 546 0400 T
415 882 7088 F
www.smmw.com

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Eisesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
343 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4860 F

2003.09.11 CCD# 006

11-29-04 Updated
Contract Documents

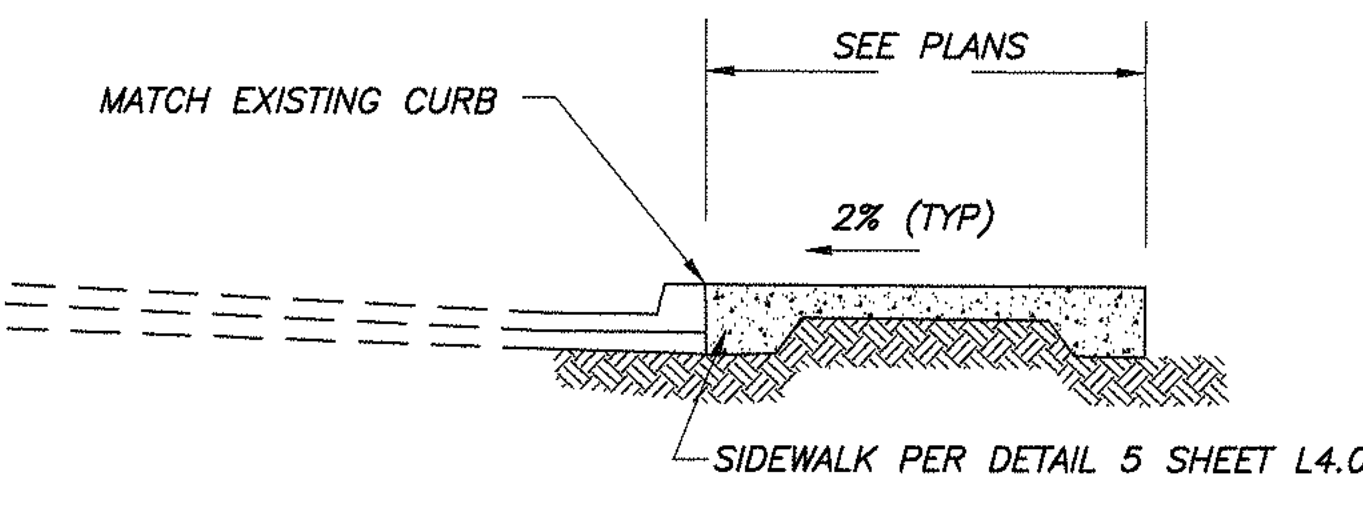
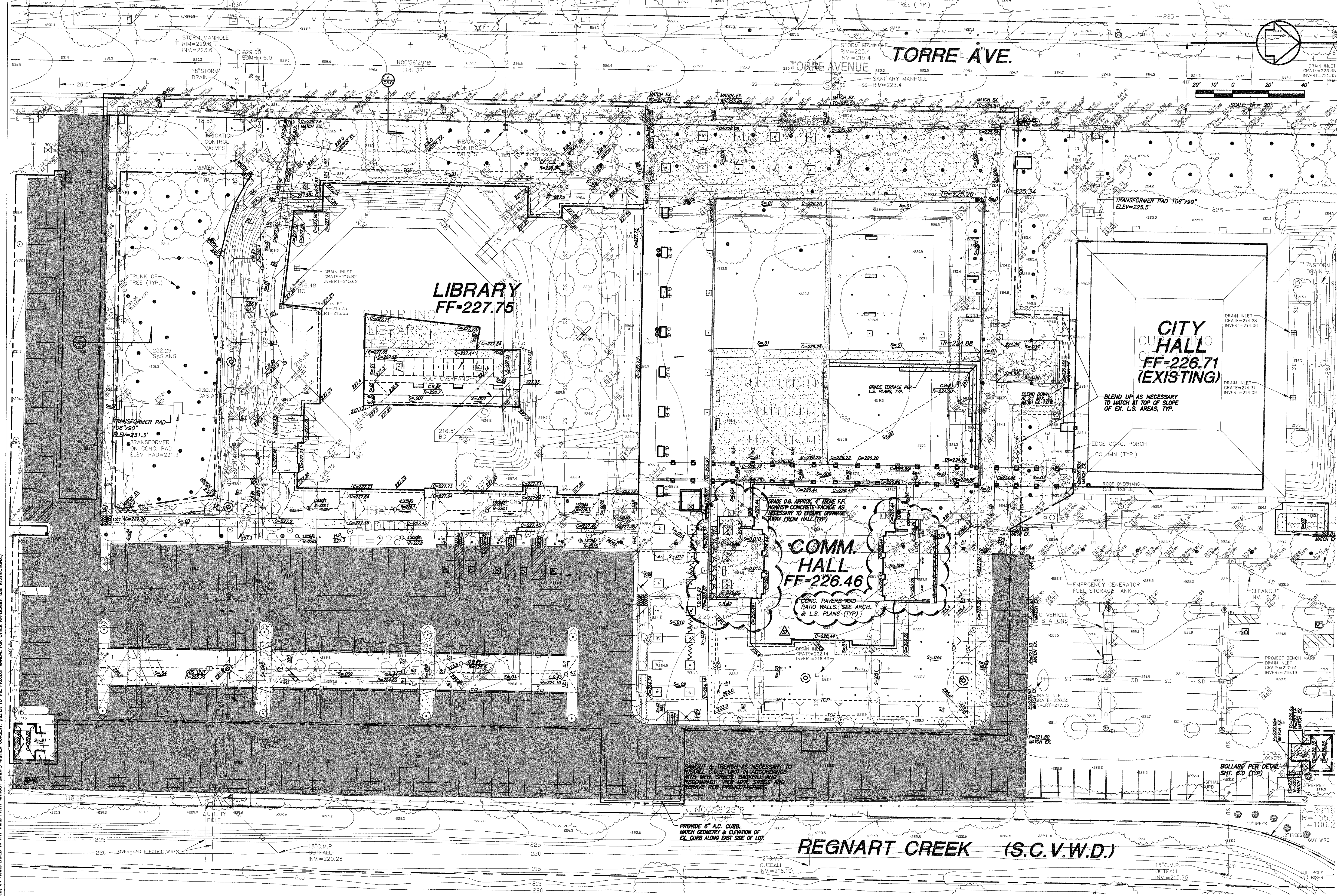
SANDIS HUMBER JONES
590 Menlo Drive, Suite 1, Rocklin, CA 95765
Tel: 916 435-2400 Fax: 916 435-2410

BID SET

HORIZONTAL
CONTROL PLAN

Scale: 1" = 30' Date: 2003.04.18
Drawn by: R.J.L. Project number: 20114.00
Sheet number:





GENERAL NOTES

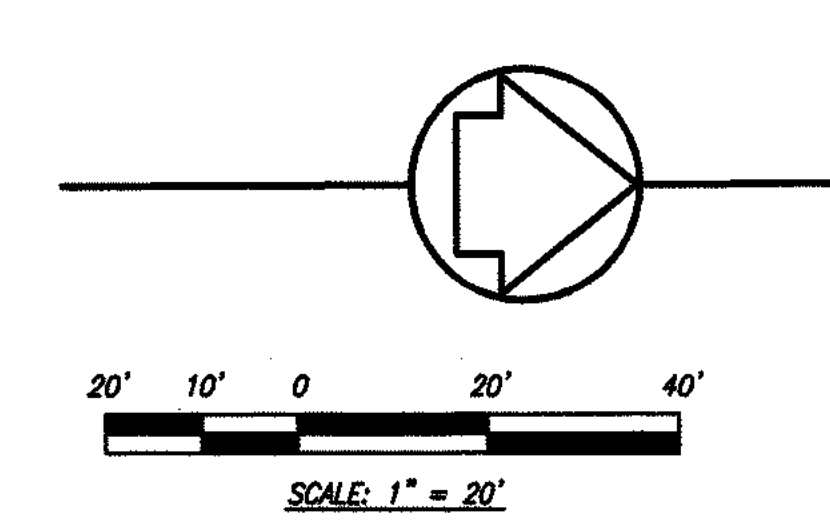
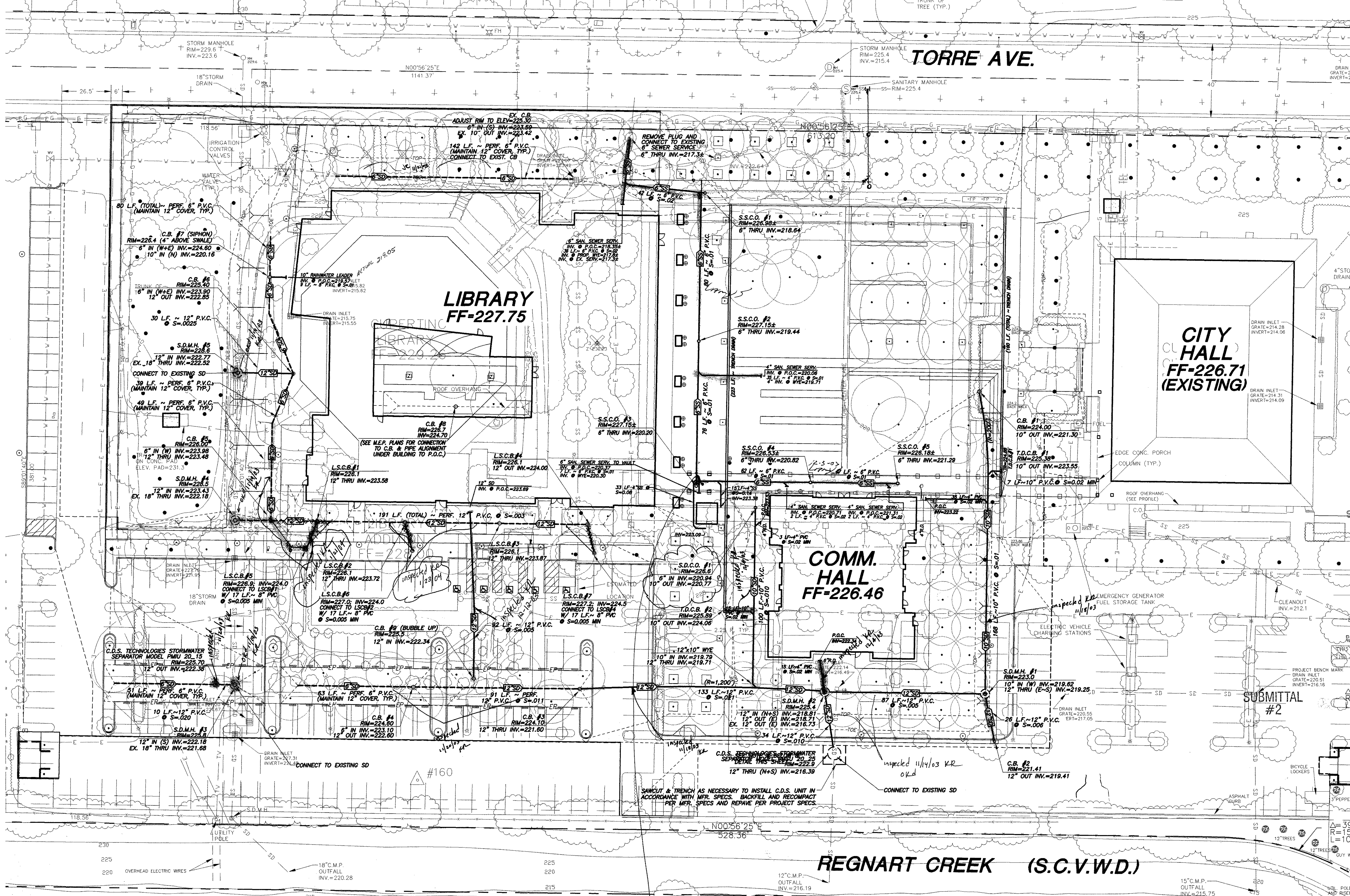
- ENDS OF ALL VERTICAL CURB WHICH TERMINATE IN A NON-FLUSH CONDITION TO BE FINISHED PER THE END OF CURB DETAIL ON SHEET C6.0.
- AS THE CIVIL PLANS DO NOT INDICATE ALL SITE MATERIALS, THE GRADING CONTRACTOR MUST HAVE THE LANDSCAPE LAYOUT & MATERIALS PLAN (SHEET L3.0) IN HAND TO ENSURE PROPER LAYOUT OF CONCRETE, CRUSHED GRANITE, PLANTING AREAS, ETC.

LEGEND

- PROP. GROUND ELEVATION
- PROP. PAVEMENT ELEVATION
- PROP. EDGE-OF-PAVEMENT ELEVATION
- PROP. CONCRETE ELEVATION
- PROP. FLOWLINE ELEVATION
- PROP. TOP-OF-CURB ELEVATION
- PROP. TRENCH DRAIN RIM ELEVATION
- PROP. RIM ELEVATION
- PROP. SLOPE & DIRECTION OF FLOW
- PROP. RIDGE OR GRADE BREAK
- PROP. TOP OR TOE OF SLOPE
- PROP. EDGE-OF-PAVEMENT/FLUSH CURB (PER DETAIL ON SHIT. C6.0)
- PROP. VERTICAL CURB (PER DETAIL ON SHIT. C6.0)
- PROP. CURB & GUTTER (PER DETAIL ON SHIT. C6.0)
- PROP. CATCH BASIN (PER DETAIL ON SHIT. C6.0)
- PROP. LANDSCAPE CATCH BASIN (PER DETAIL ON SHIT. C6.0)
- PROP. CDS INLET STRUCTURE (SEE SHIT. C4.0)

- DETECTABLE WARNING PAD PER DETAIL SHIT. 6.0
- PROP. TRENCH DRAIN (STRONGWELL POLYCAST 800 SERIES W/ DOUBLE STAINLESS STEEL PERFORATED GRATING) (SEE NOTES ON SHIT. C4.0)
- PROP. TRENCH DRAIN CATCH BASIN (STRONGWELL POLYCAST 650 BASIN W/ DOUBLE STAINLESS STEEL PERFORATED GRATING)
- PROP. AREA OF A.C. PAVEMENT (T.L.=4.5) (MAIN DRIVE ASLES: 3" A.C. OVER 10.5" A.B. OVER NATIVE COMP. TO 95% R.C.) (PARKING AREAS & SECONDARY DRIVE ASLES: 2.5" A.C. OVER 7.0" A.B. OVER NATIVE COMP. TO 95% R.C.)
- PROP. AREA OF CONCRETE/HARDSCAPE (SEE ARCHITECT'S PLANS FOR DETAILS.)
- EX. SAWCUT LINE (PER PHASE 1 PLANS.)
- PROP. SAWCUT LINE (SEE SHIT. C1.0)

NOTE: SMVM AND/OR ITS CONSULTANTS OWNS ALL COPYRIGHTS, OTHER INTELLECTUAL PROPERTY RIGHTS, AND OTHER INTERESTS IN THIS WORK PRODUCT, AND IT IS PROTECTED BY UNITED STATES COPYRIGHT LAWS AND INTERNATIONAL TREATY PROVISIONS. SMVM'S WORK PRODUCT MAY NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY MANNER WITHOUT SMVM'S WRITTEN CONSENT. (REFER TO THE PRODUCT MANUAL FOR OTHER APPLICABLE USE RESTRICTIONS)



GENERAL NOTE

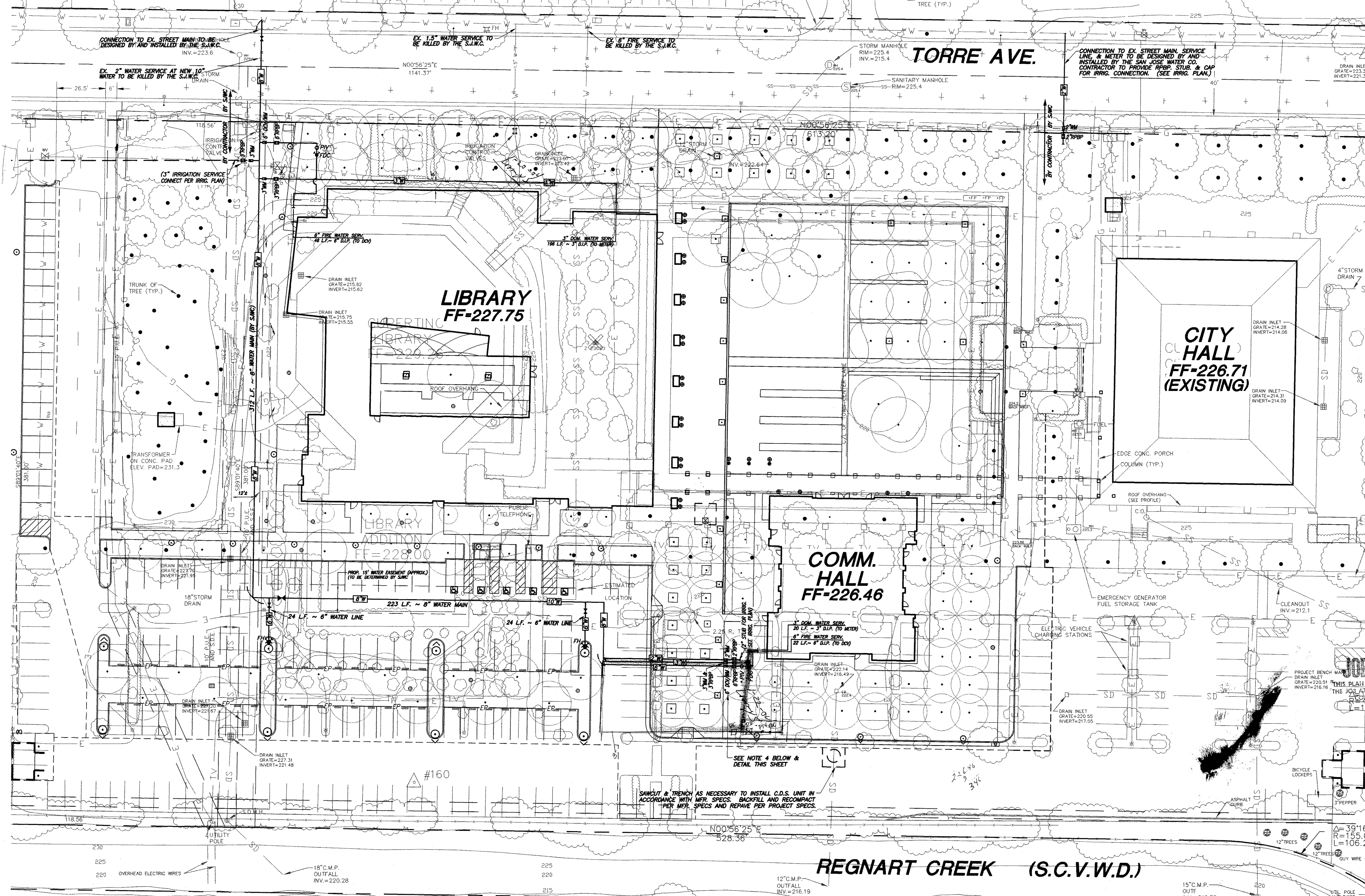
1. LANDSCAPE CONTRACTOR TO PROVIDE ROOT BARRIERS AT ALL TREES WITHIN 10' OF ANY PIPE TO PREVENT ROOT BLOCKAGES. (SEE LANDSCAPE ARCHITECT PLANS FOR DETAILS/SPECS.)
2. CONTRACTOR SHALL CERTIFY ALL INVERTS OF EXISTING PIPE AT CONNECTION POINTS SHOWN PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE CONTINUING WORK.
3. ALL TRENCH DRAINS TO BE INSTALLED PER MANUFACTURER SPECS. ALL TRENCH DRAIN TO BE LIGHT DUTY, PRE-SLOPED WITH NEUTRAL SECTIONS (NON-SLOPED) PROVIDED ONLY AS NEEDED TO DRAIN TO T.D.C.B.'S SHOWN.
4. CONTRACTOR SHALL PROVIDE SAFETY BARRICADES AROUND S.D.M.H.#2. CONSTRUCTION ZONE TO ACCOMMODATE TRAFFIC IN FLOW AREA.
5. IN PARKING AREAS THAT WILL NOT DISCHARGE INTO A DRAINAGE SWALE, ALL STORM DRAIN INLETS SHOULD BE FITTED WITH (FOSSIL FILTER OR APPARENT EQUAL) OIL INTERCEPTORS PER DETAIL SHEET C6.0.

LEGEND

- 12" SD --- PROP. STORM DRAIN LINE (P.V.C. PIPE CONFORMING TO ASTM-D3034, SDR 35)
- 6" SD --- PROP. STORM DRAIN LINE (PERFORATED) (P.V.C. PIPE CONFORMING TO ASTM-D3034, SDR 35) (PER DETAIL ON SHT. C6.1)
- C.B.#1 --- PROP. CATCH BASIN (PER DETAIL ON SHT. C6.1)
- L.S.C.B.#1 --- PROP. LANDSCAPE CATCH BASIN (PER DETAIL ON SHT. C6.1)
- T.D.C.B.#1 --- PROP. TRENCH DRAIN CATCH BASIN (PER TRENCH DRAIN CATCH BASIN DETAIL, SHT. C6.0) (STRONGWELL POLYCAST 850 BASIN W/ STRONGWELL DOUBLE STAINLESS STEEL PERFORATED GRATING)
- S.D.M.H.#1 --- PROP. STORM DRAIN MANHOLE (PER CITY OF CUPERTINO STD. DETL. 3-10)
- R.D. --- PROP. ROOF DRAIN CONNECTION (4" P.V.C. MIN. SLOPE=02)
- 4" SS --- PROP. SANITARY SEWER LINE (P.V.C. PIPE CONFORMING TO ASTM-D3034, SDR 35)
- C.O.#1 --- PROP. SEWER CLEAN-OUT (PER DETAIL ON SHT. C6.1)

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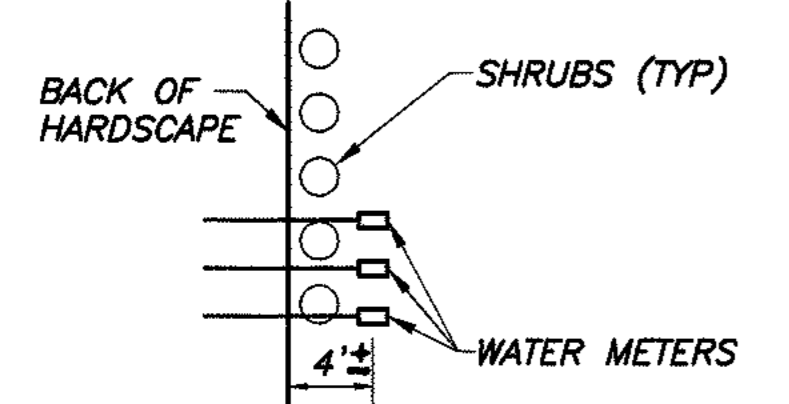


GENERAL NOTE

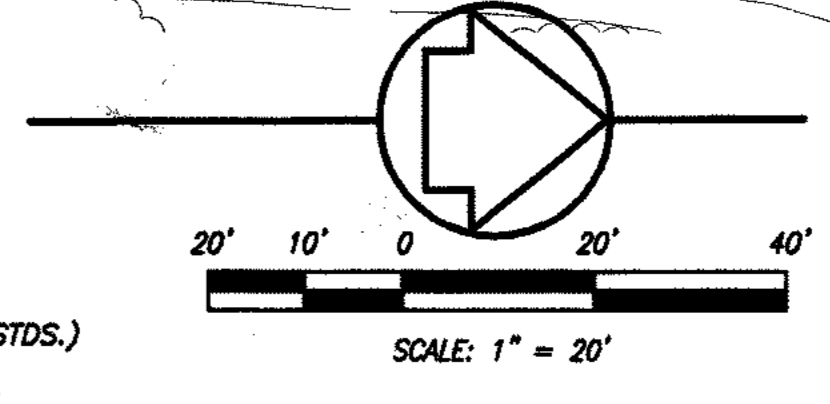
1. ALL CONNECTIONS TO EXISTING AND INSTALLATION OF MAIN & SERVICES WITHIN STREET RIGHT-OF-WAY TO BE BY SAN JOSE WATER CO. FORCES. WATER COMPANY PROVIDES CONNECTION, MAIN LINE & SERVICE LINE WITHIN RIGHT OF WAY, AND WATER METER (DDCV W/ WATER METER FOR FIRE LINE). CONTRACTOR PROVIDES RPB, PIV, FDC, AND ALL ON-SITE LINES UP TO BUILDING P.O.C. CONTRACTOR SHALL COORDINATE WITH S.J.W.C. AS NECESSARY FOR CONSTRUCTION. CITY SHALL PAY ALL S.J.W.C. CONNECTION FEES AS REQUIRED.
2. LANDSCAPE CONTRACTOR TO CONNECT TO EXISTING LANDSCAPE IRRIGATION SYSTEM PER LANDSCAPE ARCHITECT'S PLANS.
3. THE FIRE SERVICE AND THE FIRE ACCESS ROADS MUST BE IN PLACE PRIOR TO THE START OF COMBUSTIBLE CONSTRUCTION.
4. WATER METERS TO BE LOCATED BEHIND ROW OF SHRUBS. COORDINATE LOCATIONS W/LANDSCAPE PLANS. SEE DETAIL, THIS SHEET.

LEGEND

- 8" W PROP. WATER LINE (ALL PIPE SHOWN SHALL BE DUCTILE IRON PIPE CONFORMING TO ANMA C-150 & C-151.) (LINES TO BE SPECIFIED & CONSTRUCTED PER PLANS PREPARED BY THE S.J.W.C.)
- PROP. GATE VALVE (PER SAN JOSE WATER CO. STDS.)
- FH PROP. FIRE HYDRANT (CLOW 980), BURY, & GATE VALVE (PER CITY OF CUPERTINO STD. DETL. 4-20) AT TIME OF FINAL INSPECTION, ON-SITE HYDRANTS SHALL BE IDENTIFIED BY INSTALLATION OF A "BLUE" TRAFFIC DOT IN THE ACCESS ROADWAY. (PER CITY STDS.)
- PIV PROP. POST INDICATOR VALVE (PER CITY OF CUPERTINO STDS.)
- FDC PROP. FIRE DEPT. CONNECTION (PER CITY OF CUPERTINO STDS.) PROVIDE A DURABLE, WEATHER-RESISTIVE SIGN INDICATING THE FIRE PROTECTION FEATURE SERVED. (PER CITY STDS.)
- 2" WM PROP. WATER METER, SIZE AS NOTED—SAN JOSE WATER CO. TO FURNISH AND INSTALL (PER SAN JOSE WATER CO. STDS.)
- 2" RPB PROP. REDUCED PRESSURE BACKFLOW PREVENTER, SIZE AS NOTED (PER SAN JOSE WATER CO. STDS.)
- 6" DCI/WM PROP. DETECTOR CHECK VALVE W/ METER—SAN JOSE WATER CO. TO FURNISH AND INSTALL (PER SAN JOSE WATER CO. STDS.)



WATER METER LOCATION DETAIL
N.T.S.



SMWWM
architecture
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planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Main Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Ebesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
349 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
370 Branson Street
San Francisco, CA 94107
415 495 4085 T
415 495 4650 F

**SPECIAL INSPECTION
REQUIRED**

**OPER AND
REQUIRED**

**SUBMITTAL
#2**

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300 Main Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
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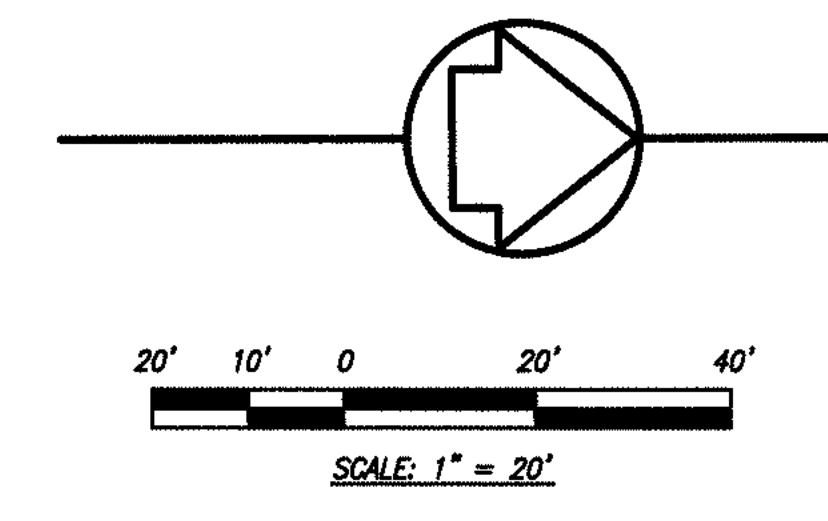
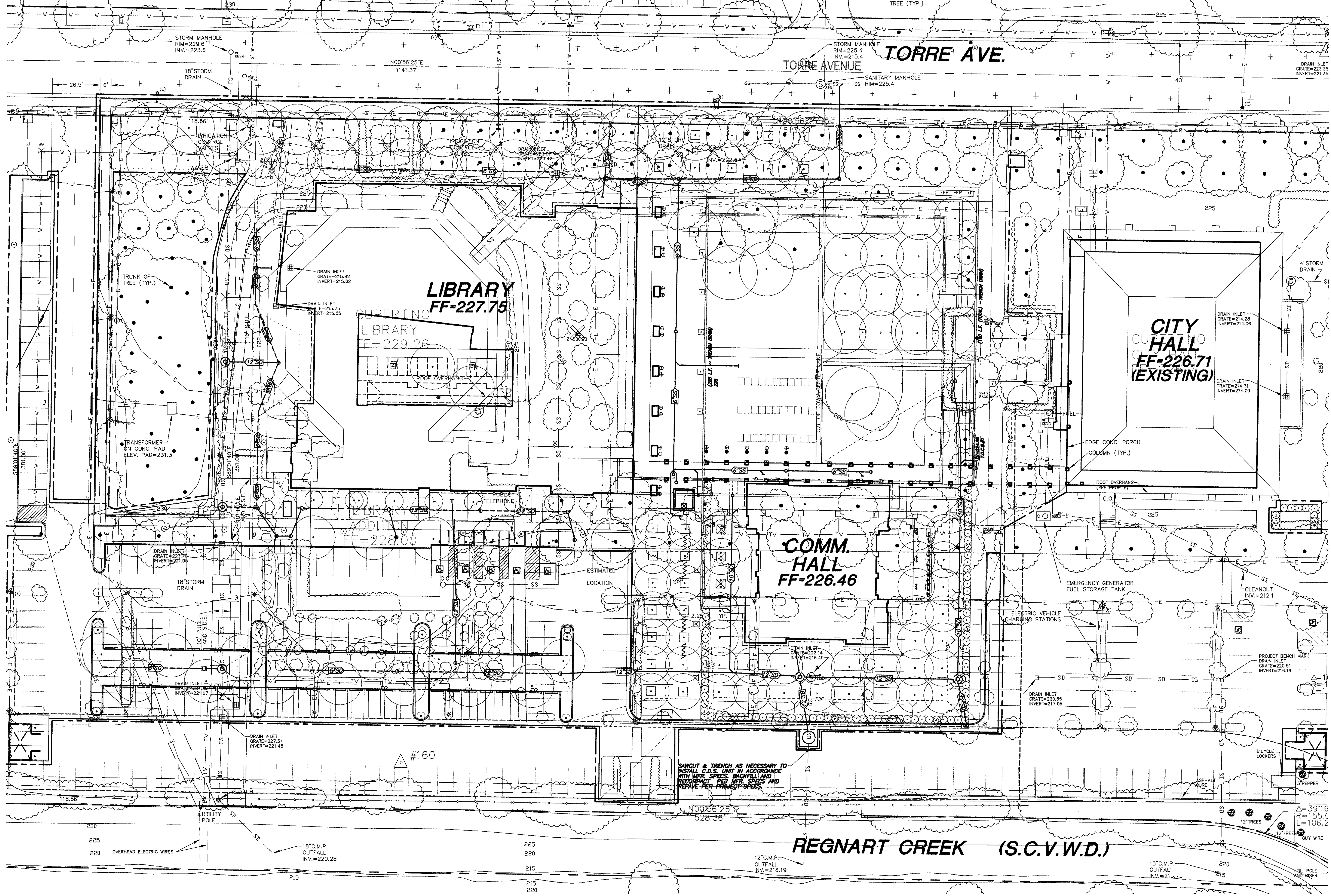
BID SET

WATER PLAN

DATE: 1"=20" DATE: 2003.04.18
DRAWN BY: B.J.J. PROJECT NUMBER: 20114.00
SHEET NUMBER:

C5.0

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- GENERAL NOTES**
- ALL DESIGN AND INSTALLATION OF MAIN & SERVICES WITHIN STREET RIGHT-OF-WAY & PROP. WATER EASEMENT TO BE BY SAN JOSE WATER CO. FORCES WATER COMPANY PROVIDES CONNECTION, MAIN LINE, SERVICE LINE, AND WATER METER (DOCV W/ WATER METER FOR FIRE LINE). CONTRACTOR PROVIDES RPPRP, PIV, FDC, AND ALL SERVICE LINE FROM METER TO BUILDING. P.O.C. CONTRACTOR SHALL COORDINATE WITH S.J.W.C. AS NECESSARY FOR CONSTRUCTION. CITY SHALL PAY ALL S.J.W.C. CONNECTION FEES AS REQUIRED.
 - LANDSCAPE CONTRACTOR TO CONNECT TO EXISTING LANDSCAPE IRRIGATION SYSTEM PER LANDSCAPE ARCHITECT'S PLANS.

- LEGEND**
- PROP. STORM DRAIN LINE (SEE STORM DRAIN & SAN. SEWER PLAN)
 - PROP. SANITARY SEWER LINE (SEE STORM DRAIN & SAN. SEWER PLAN)
 - PROP. WATER LINE (ALL PIPE SHOWN SHALL BE DUCTILE IRON PIPE CONFORMING TO AWWA C-150 & C-151.) (LINES NOTED AS "BY S.W.C." TO BE SPECIFIED & SIZED PER PLANS PREPARED BY THE S.W.C.)
 - PROP. GATE VALVE (PER CITY OF CUPERTINO STD. DETL. 4-6)
 - PROP. FIRE HYDRANT (LOW 980). BURY, & GATE VALVE (PER CITY OF CUPERTINO STD. DETL. 4-20). AT TIME OF FINAL INSPECTION, ON-SITE HYDRANTS SHALL BE IDENTIFIED BY INSTALLATION OF A "BLUE" TRAFFIC DOT IN THE ACCESS ROADWAY. (PER CITY STDS.)
 - PIV PROP. POST INDICATOR VALVE (PER CITY OF CUPERTINO STDS.)
 - FDC PROP. FIRE DEPT. CONNECTION (PER CITY OF CUPERTINO STDS.) PROVIDE A DURABLE, WEATHER-RESISTIVE SIGN INDICATING THE FIRE PROTECTION FEATURE SERVED. (PER CITY STDS.)
 - PROP. WATER METER, SIZE AS NOTED (PER SAN JOSE WATER CO. STDS.)
 - PROP. REDUCED PRESSURE BACKFLOW PREVENTER, SIZE AS NOTED (PER SAN JOSE WATER CO. STDS.)
 - PROP. DETECTOR CHECK VALVE W/ METER (PER SAN JOSE WATER CO. STDS.)

SHMM
architecture
interiors
planning
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City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Merlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
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343 Sansome Street
Suite 450
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415 398 3833 T
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370 Branham Street
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415 495 4085 T
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11-29-04 Updated
Contract Documents

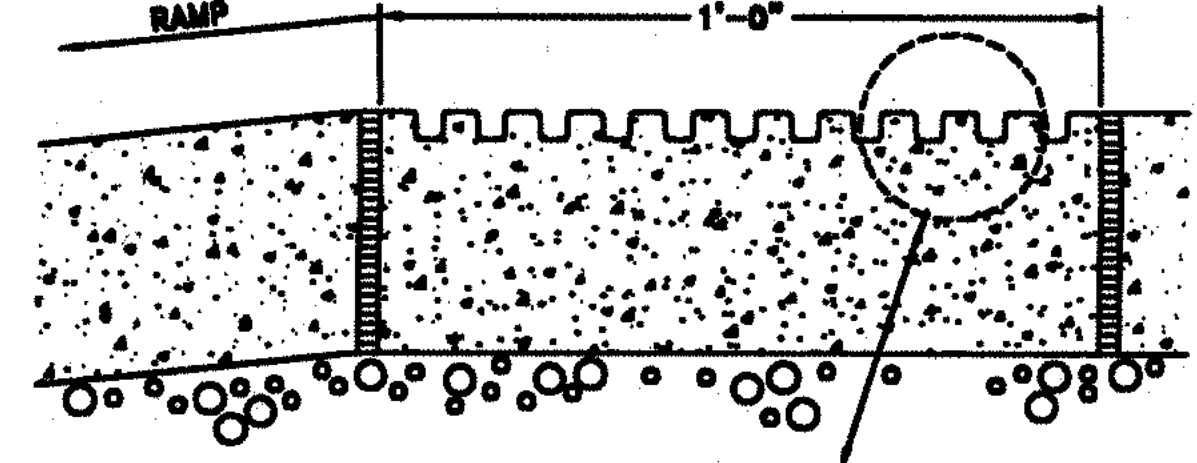
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590 Merlo Drive, Suite 1 Redlin, CA 95765
Tel: 916 435 2400 Fax: 916 435 2410

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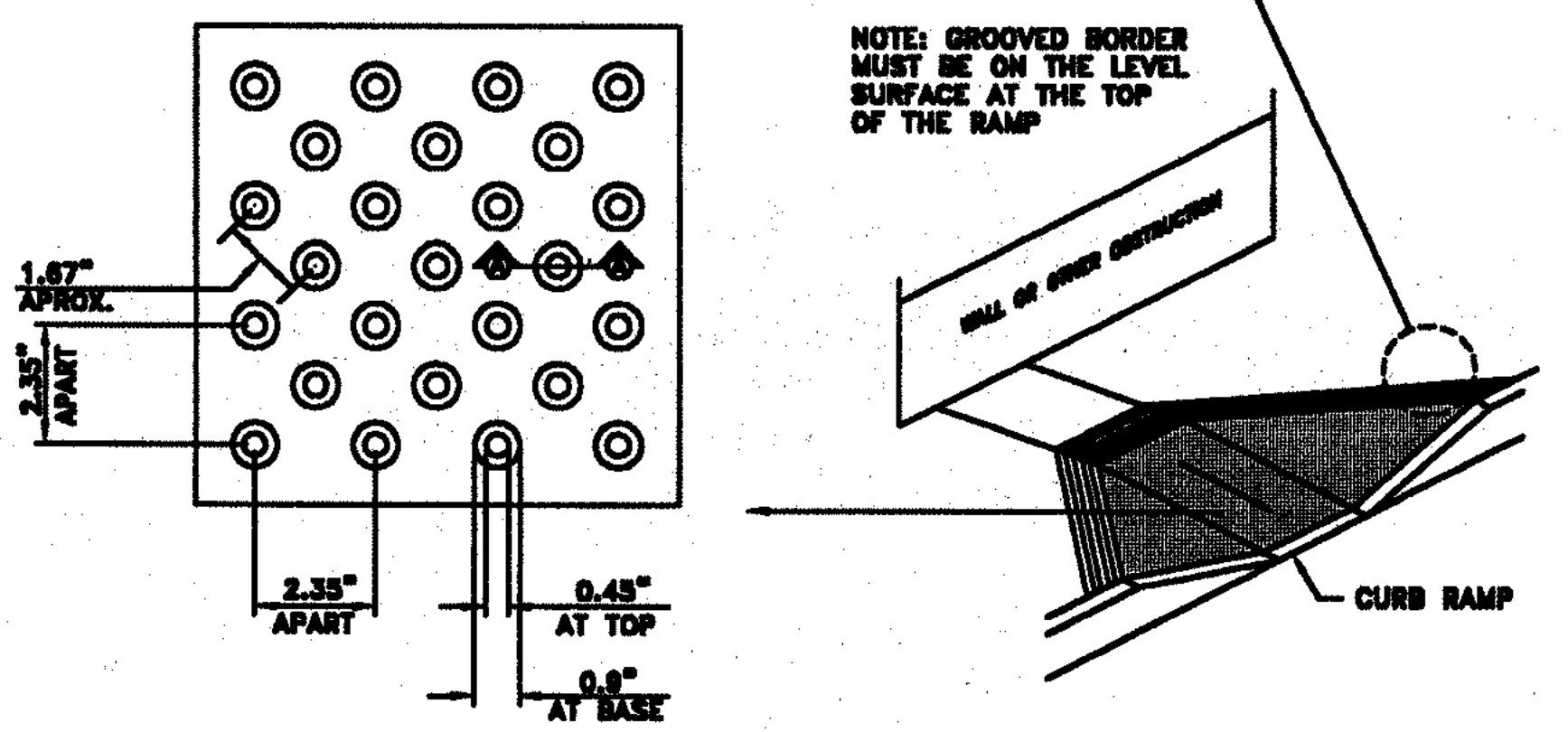
**WATER PLAN
(PUBLIC OPTION)**

Scale 1"=20' Date 2003.04.18
Drawn by R.J.J. Project Number 20114.00
Sheet Number

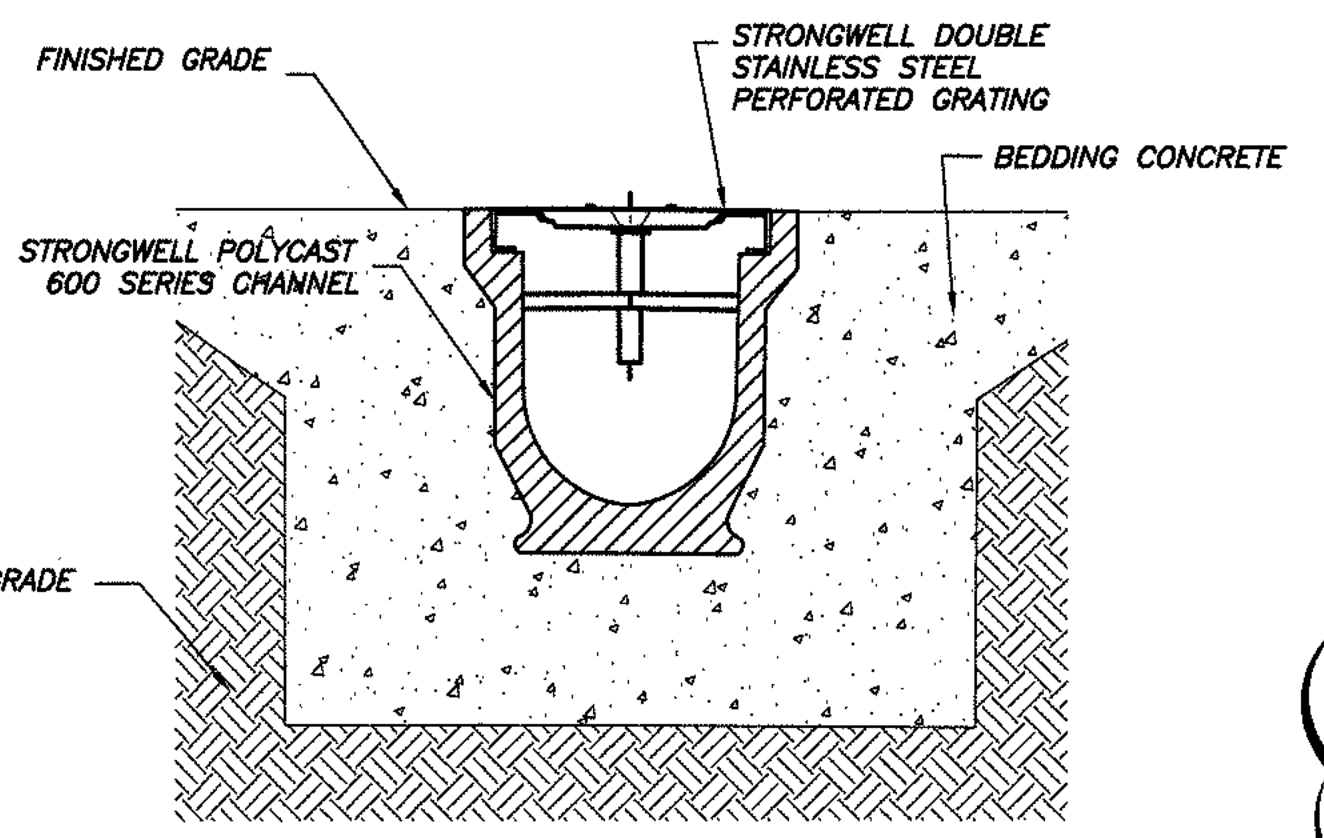




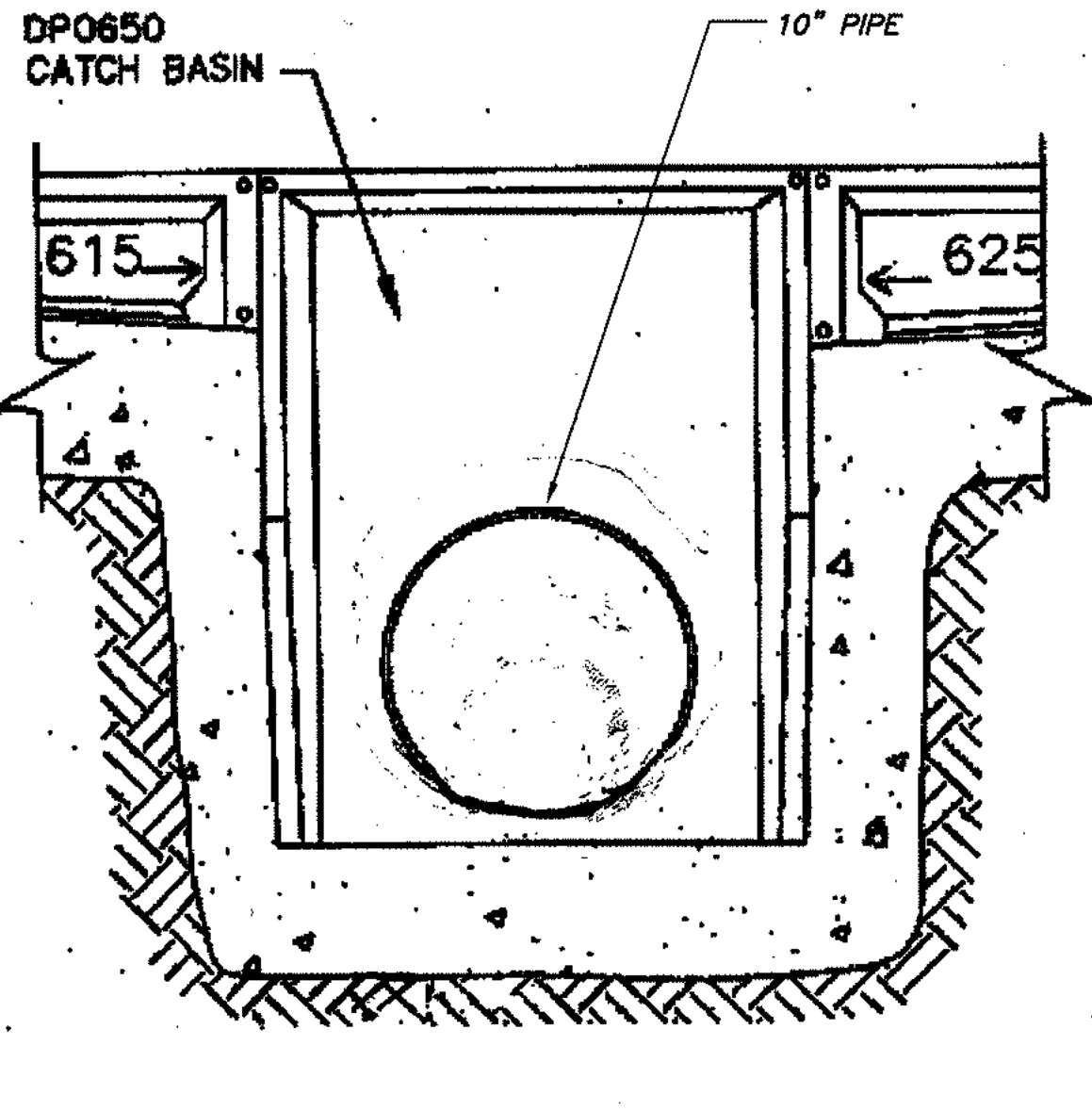
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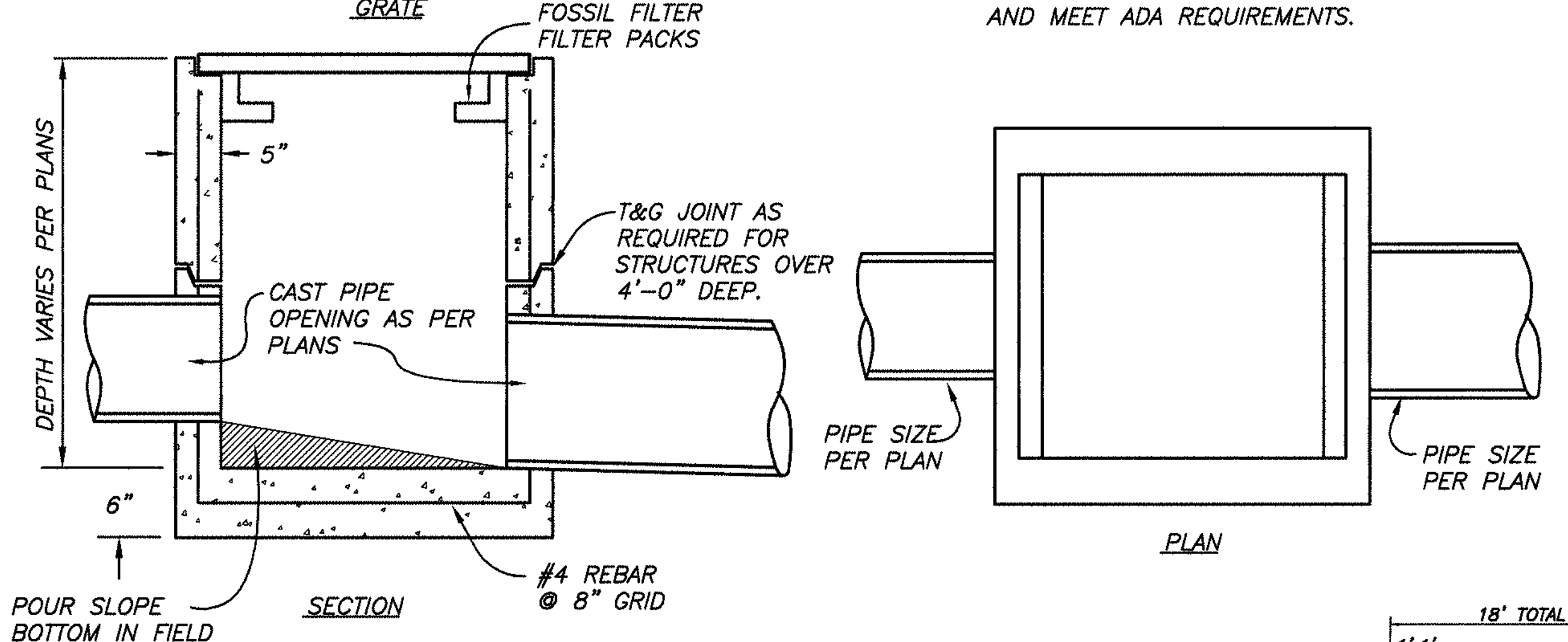
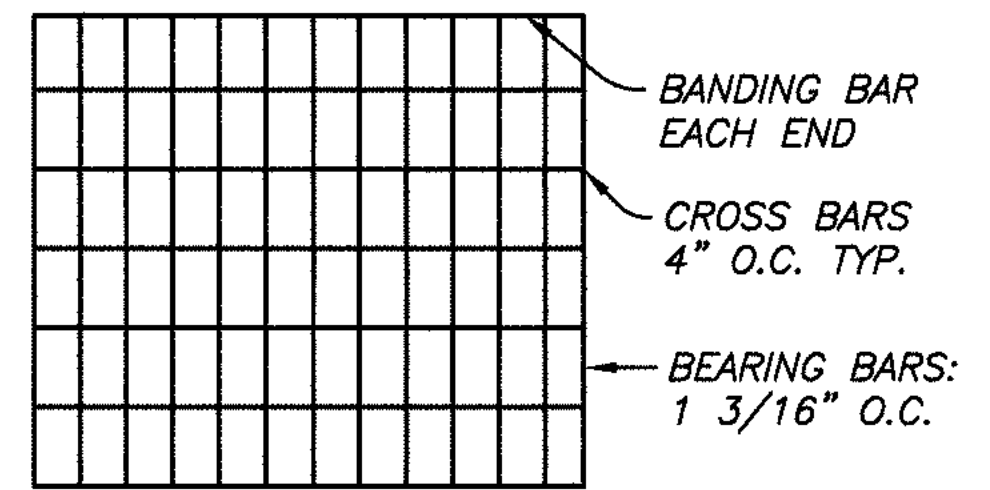
TYPICAL SECTION A-A
TRUNCATED DOMES
DETECTABLE WARNINGS
NO SCALE



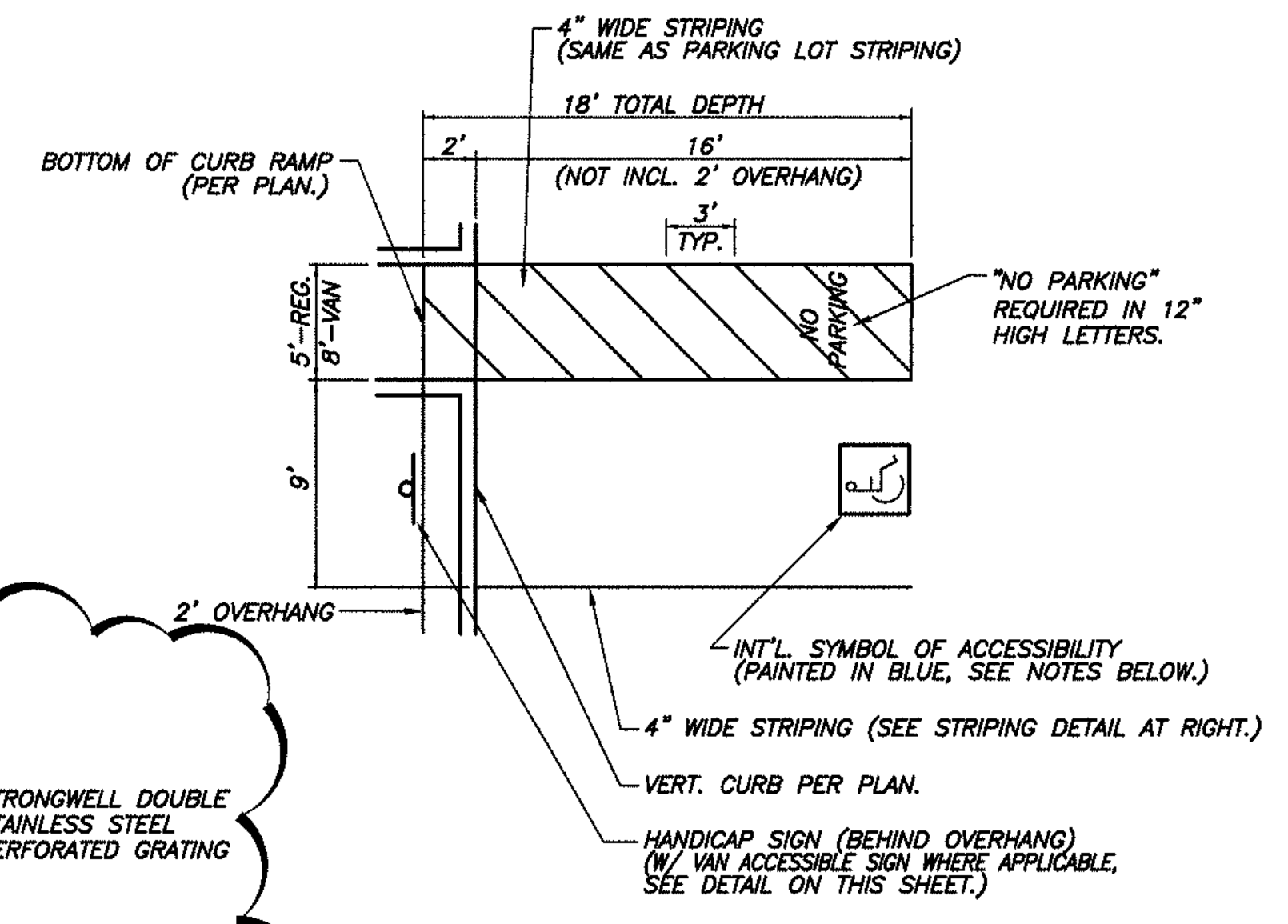
NOTE: INSTALL PER MANUFACTURER'S RECOMMENDATION.
TRENCH DRAIN
NO SCALE



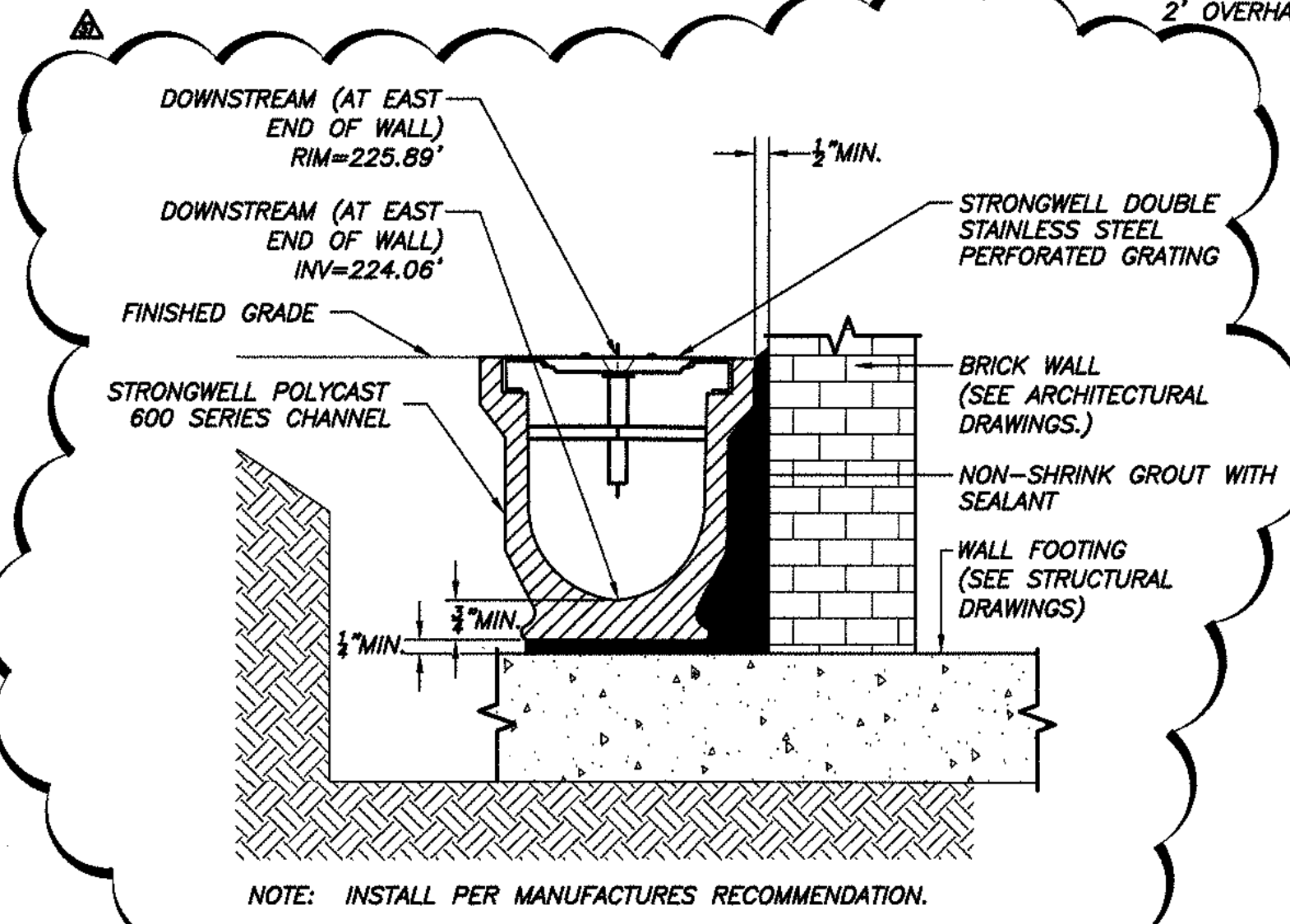
TRENCH DRAIN TO PIPE CONNECTION
NO SCALE



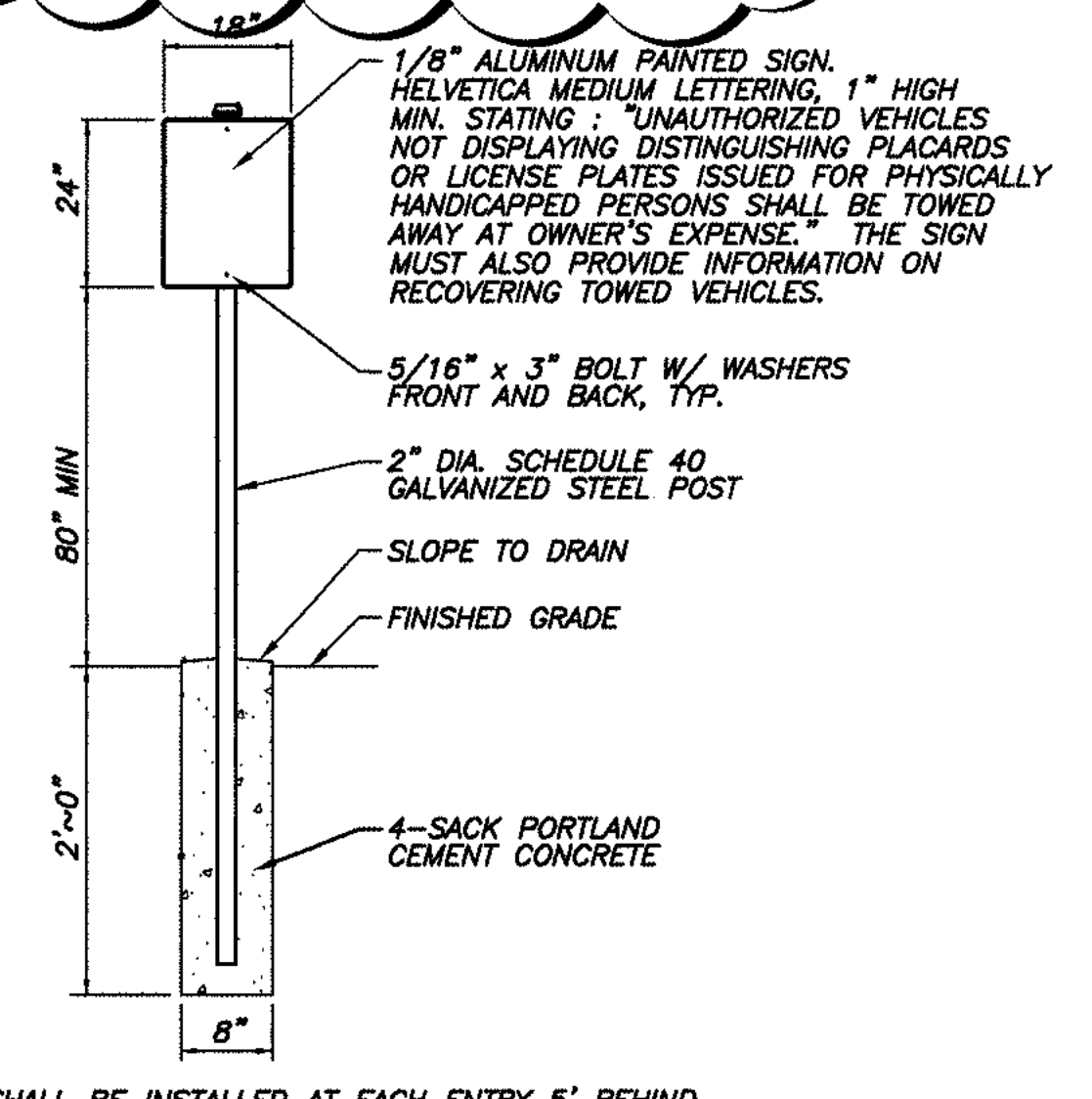
FOSSIL FILTER INSTALLATION DETAIL
NO SCALE



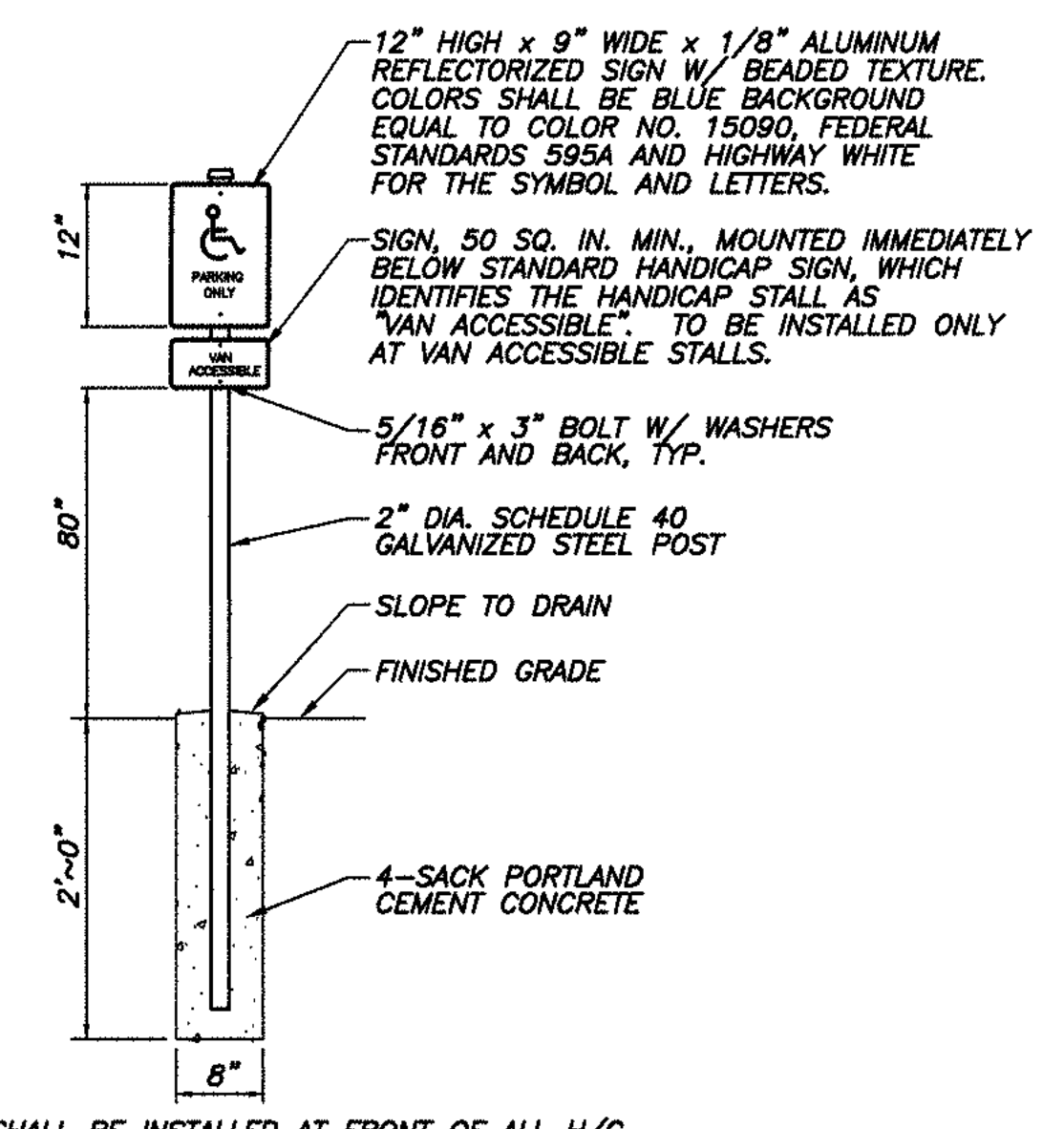
NOTE: 1. ALL HANDICAPPED SYMBOLS, STRIPING, & SIGNAGE SHALL BE INSTALLED AS REQUIRED BY CITY OF CUPERTINO AND A.D.A. STANDARDS.
2. INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE PAINTED HIGHWAY WHITE WITH 2" WIDE STRIPING ON A BLUE PAINTED BACKGROUND EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARDS 593A. BACKGROUND MEASURES 36" SQUARE.
HANDICAP PARKING STRIPING & SIGNAGE DETAIL
NO SCALE



NOTE: INSTALL PER MANUFACTURER'S RECOMMENDATION.
TRENCH DRAIN @ PATIO WALL
NO SCALE



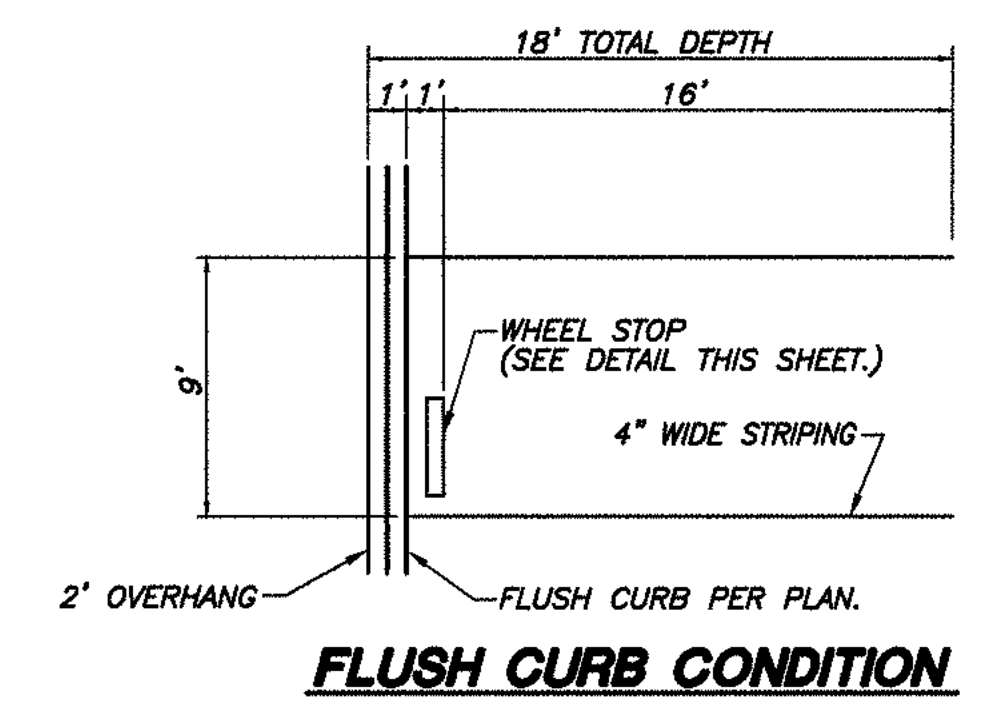
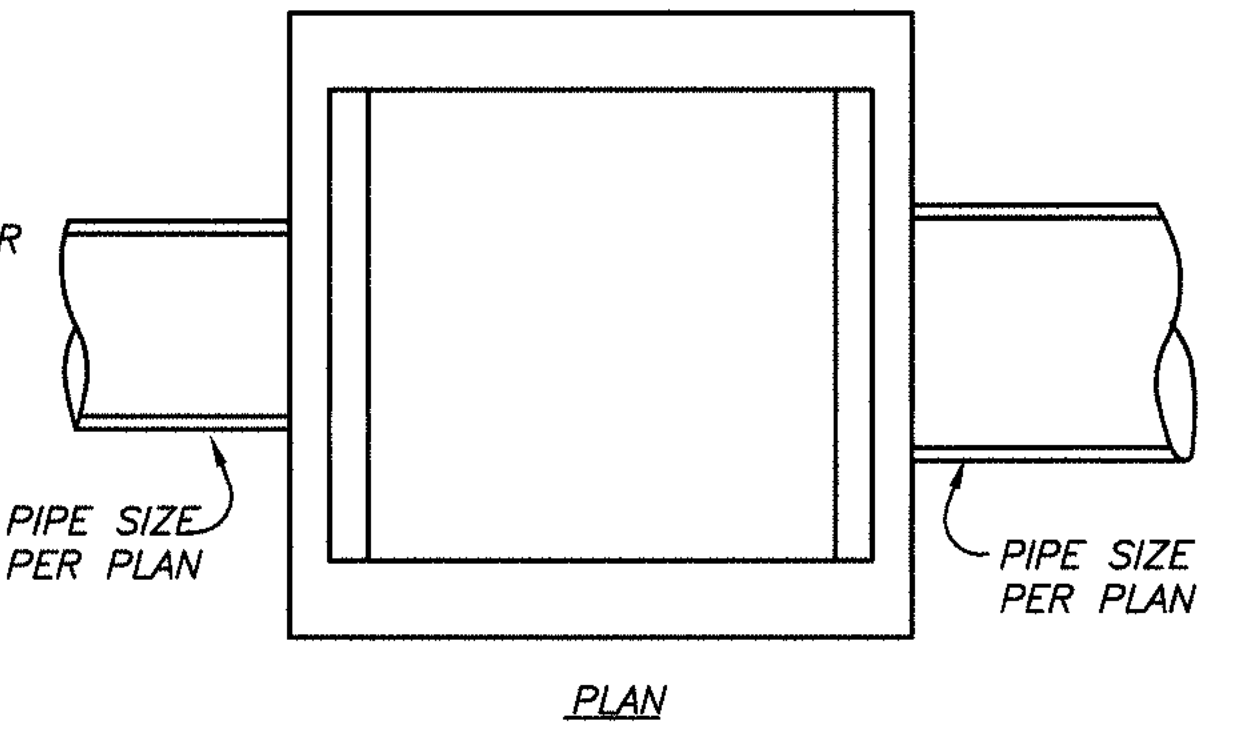
NOTE: SIGNS SHALL BE INSTALLED AT EACH ENTRY 5' BEHIND PUBLIC WALK AND 2' BEHIND DRIVE AISLE CURB.
HANDICAP PARKING LOT ENTRANCE SIGNAGE
NO SCALE



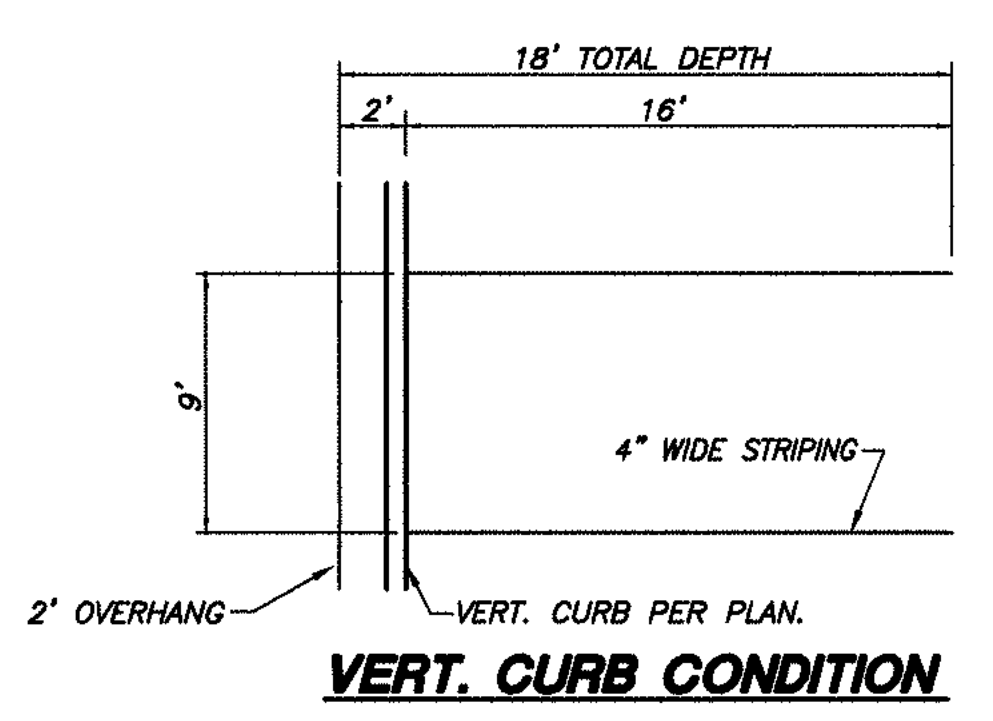
NOTE: SIGNS SHALL BE INSTALLED AT FRONT OF ALL H/C PARKING STALLS 2.5' BEHIND CURB.
HANDICAP STALL SIGNAGE
NO SCALE

NOTES

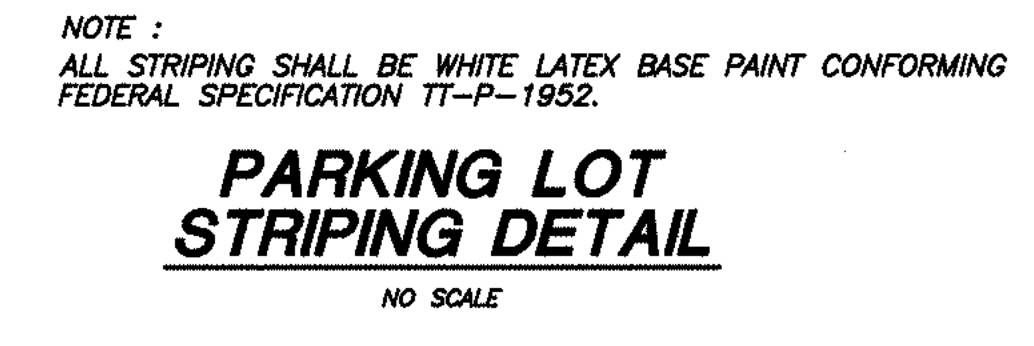
1. FRAMES AND GRATES SHALL BE HEAVY-DUTY DESIGNED FOR H20 HIGHWAY LOADING.
2. ALL GRATES SHALL BE BICYCLE PROOF AND MEET ADA REQUIREMENTS.



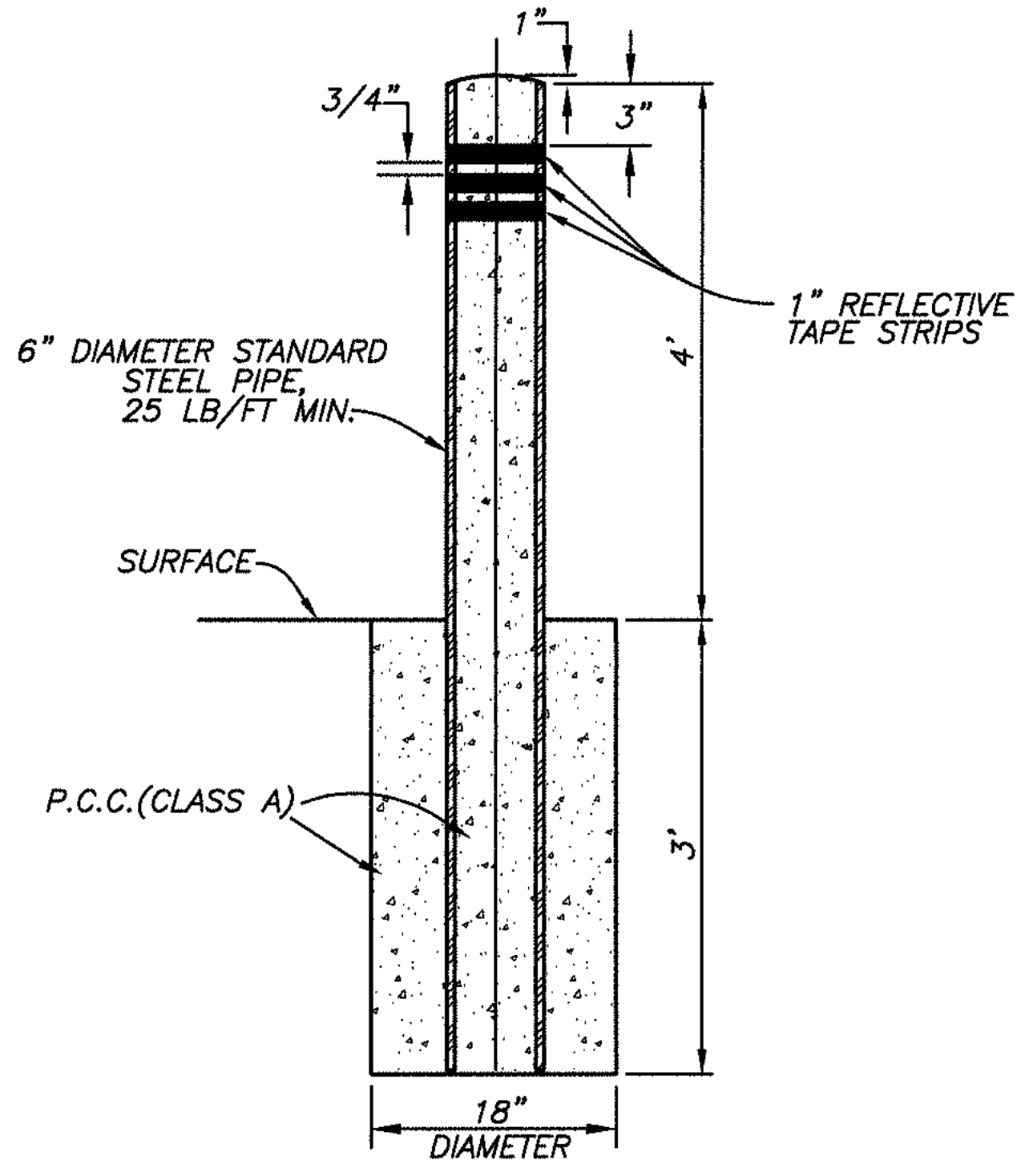
FLUSH CURB CONDITION
NO SCALE



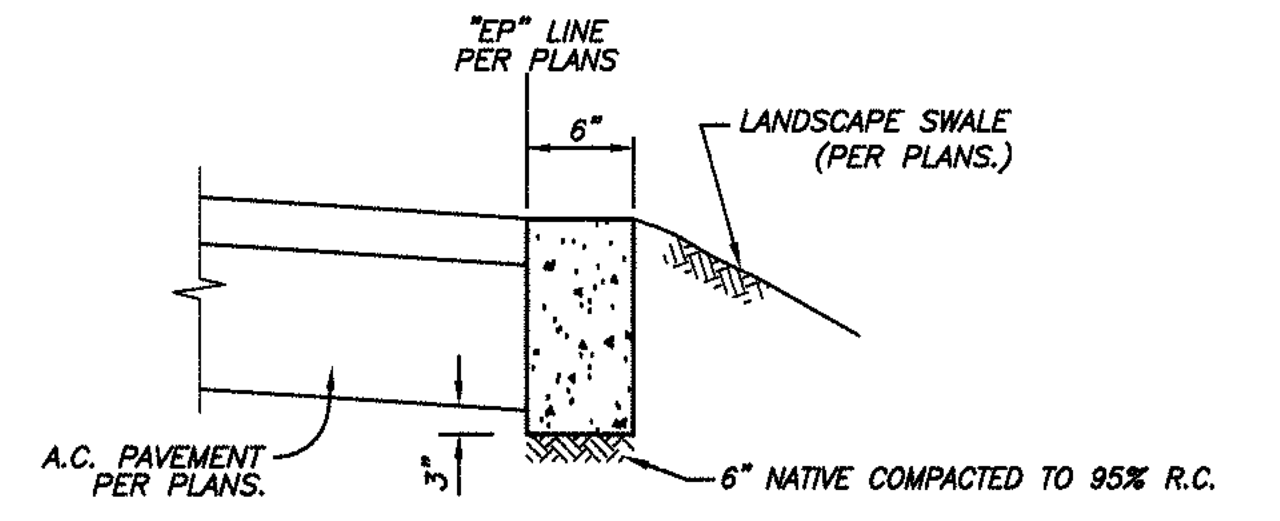
VERT. CURB CONDITION
NO SCALE



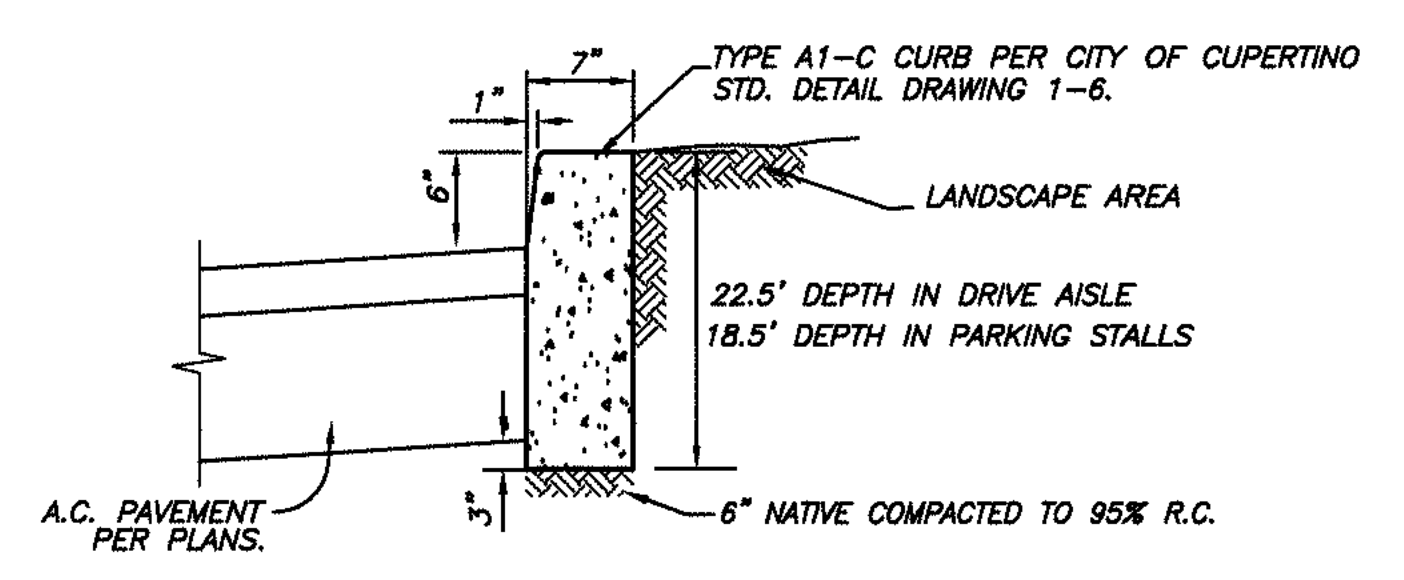
NOTE: ALL STRIPING SHALL BE WHITE LATEX BASE PAINT CONFORMING FEDERAL SPECIFICATION TT-P-1952.
PARKING LOT STRIPING DETAIL
NO SCALE



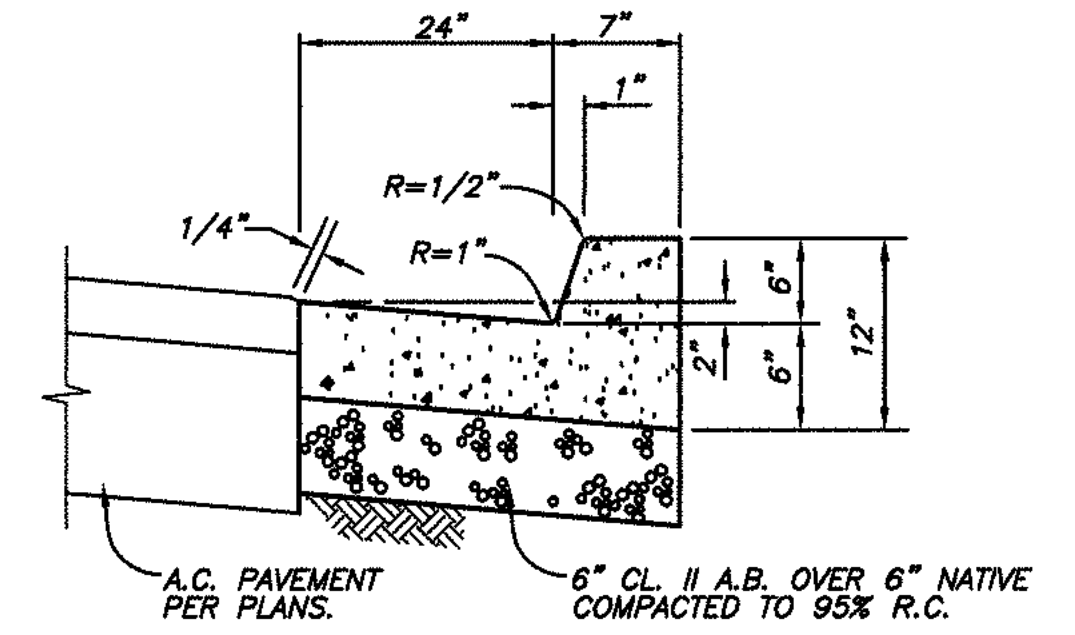
GUARD POST (BOLLARD)
NO SCALE



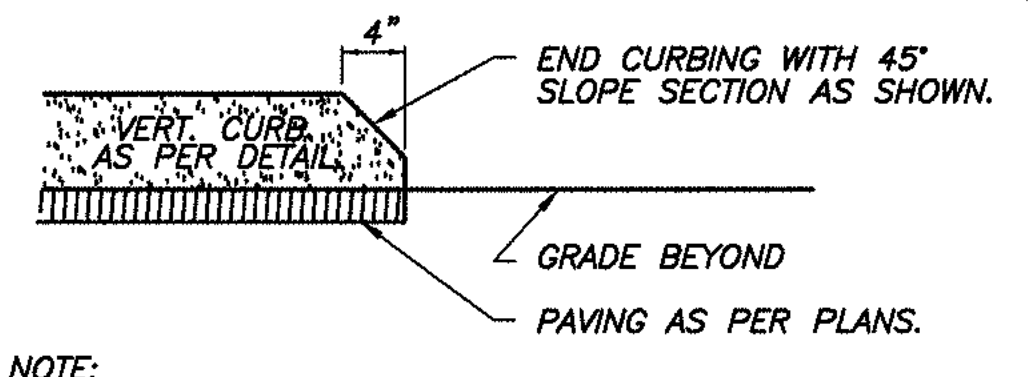
FLUSH CURB DETAIL
NO SCALE



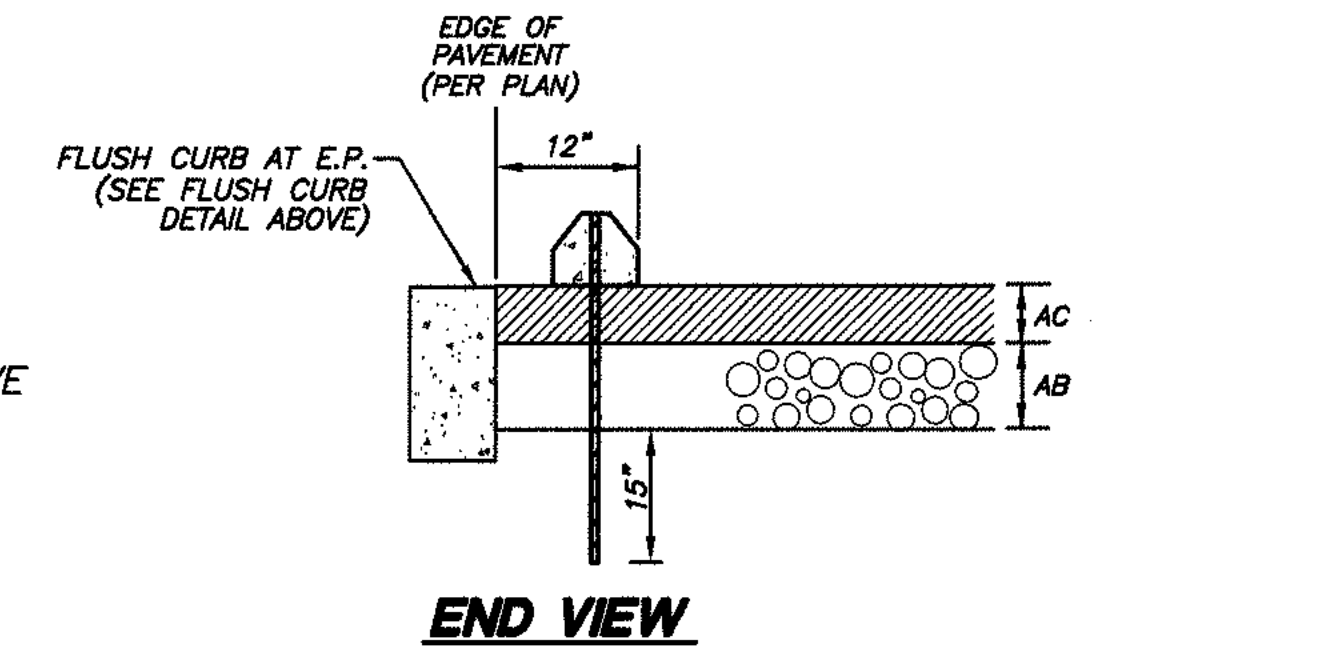
6" VERTICAL CURB DETAIL
NO SCALE



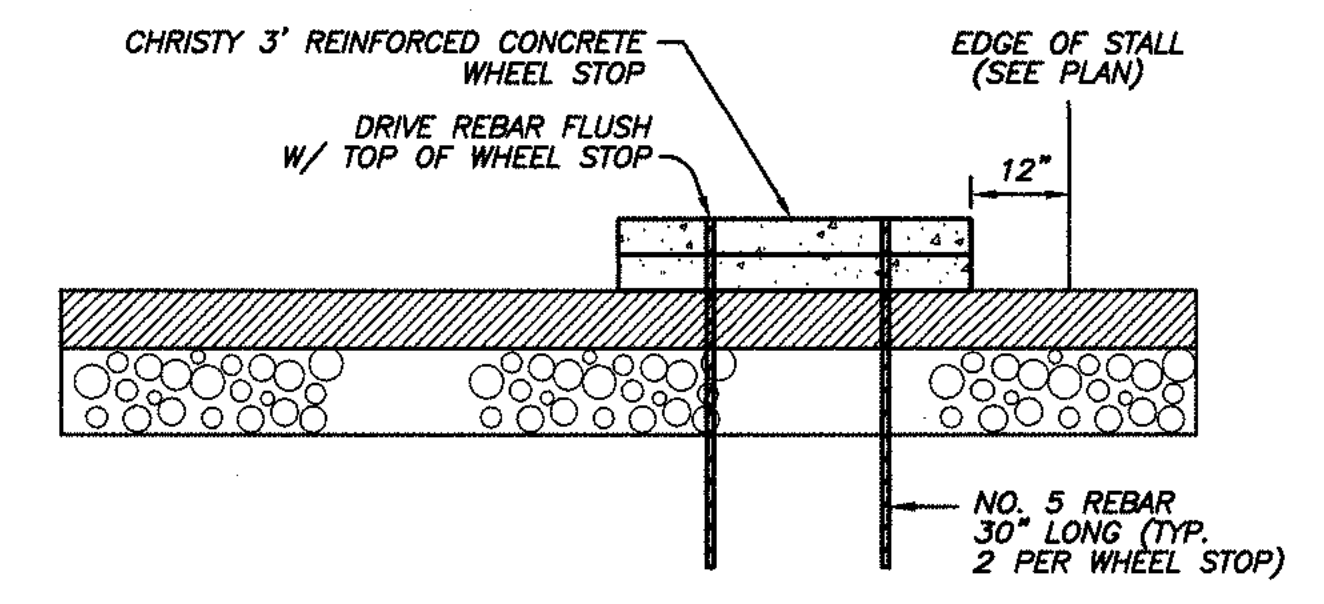
CURB & GUTTER DETAIL
NO SCALE



NOTE: USE ON ALL CURBS ENDING AT A SIDEWALK OR OTHER PEDESTRIAN ACCESSIBLE AREA.
END OF CURBING DETAIL
NO SCALE

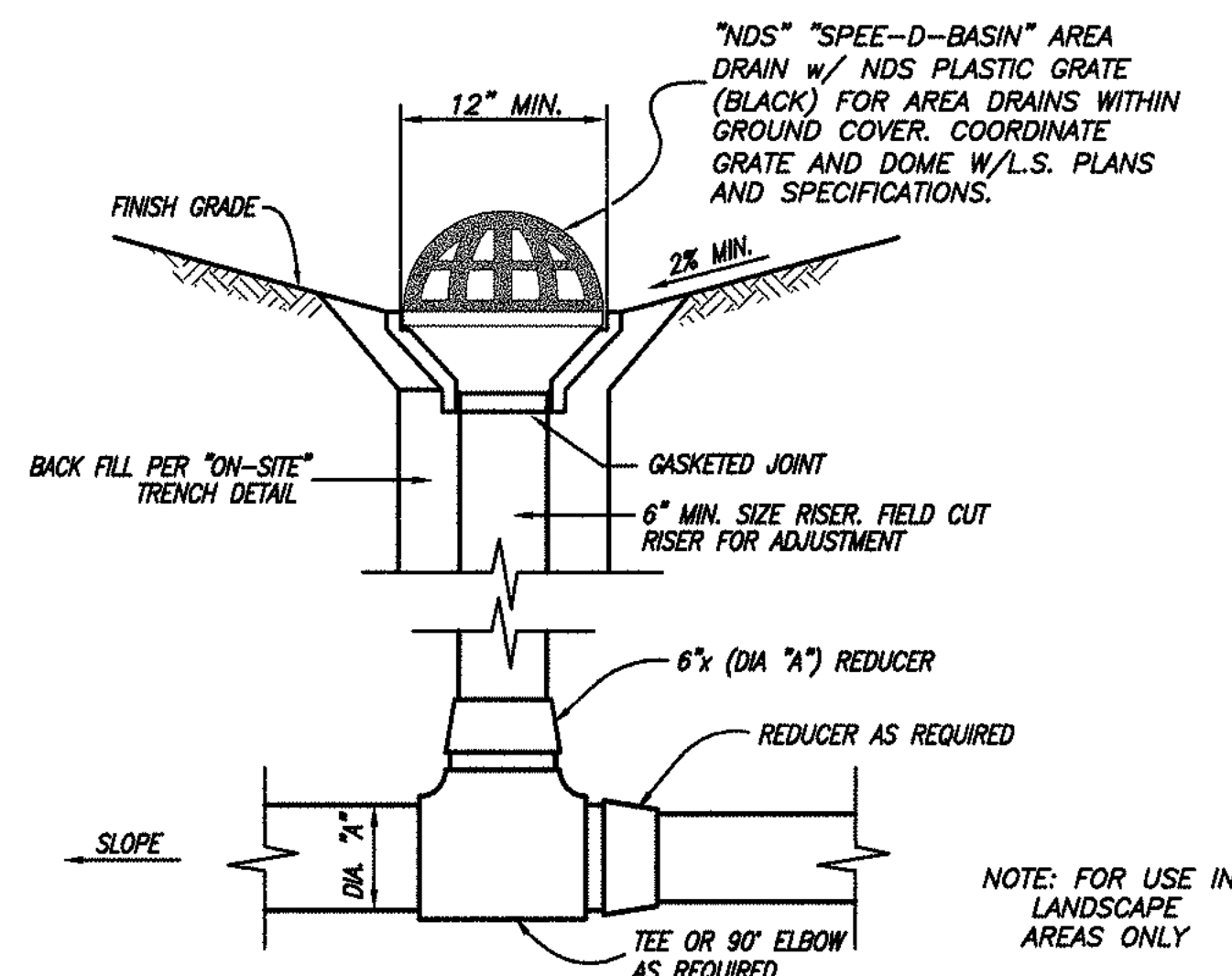


END VIEW
NO SCALE

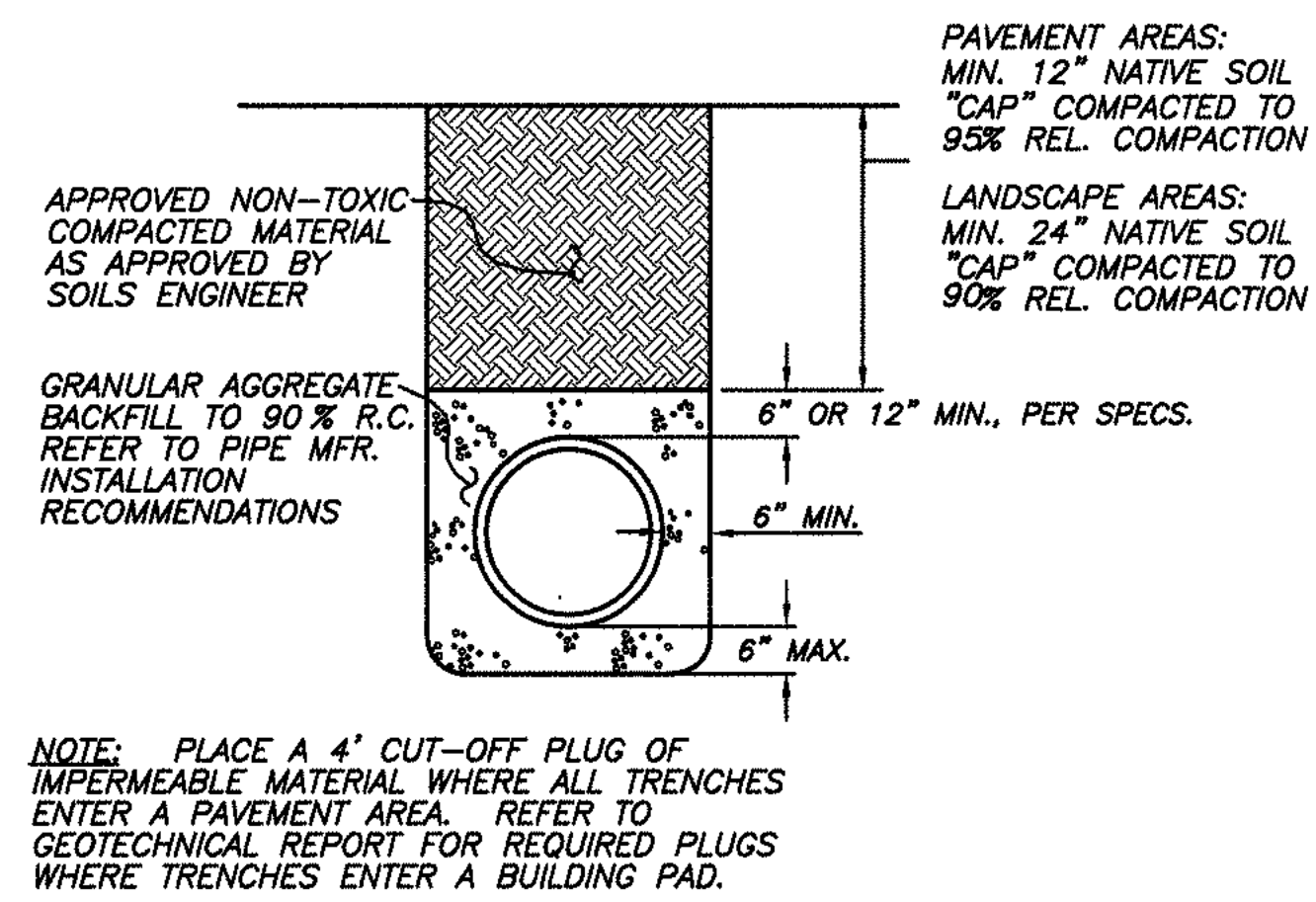


FRONT VIEW
WHEEL STOP DETAIL
NO SCALE

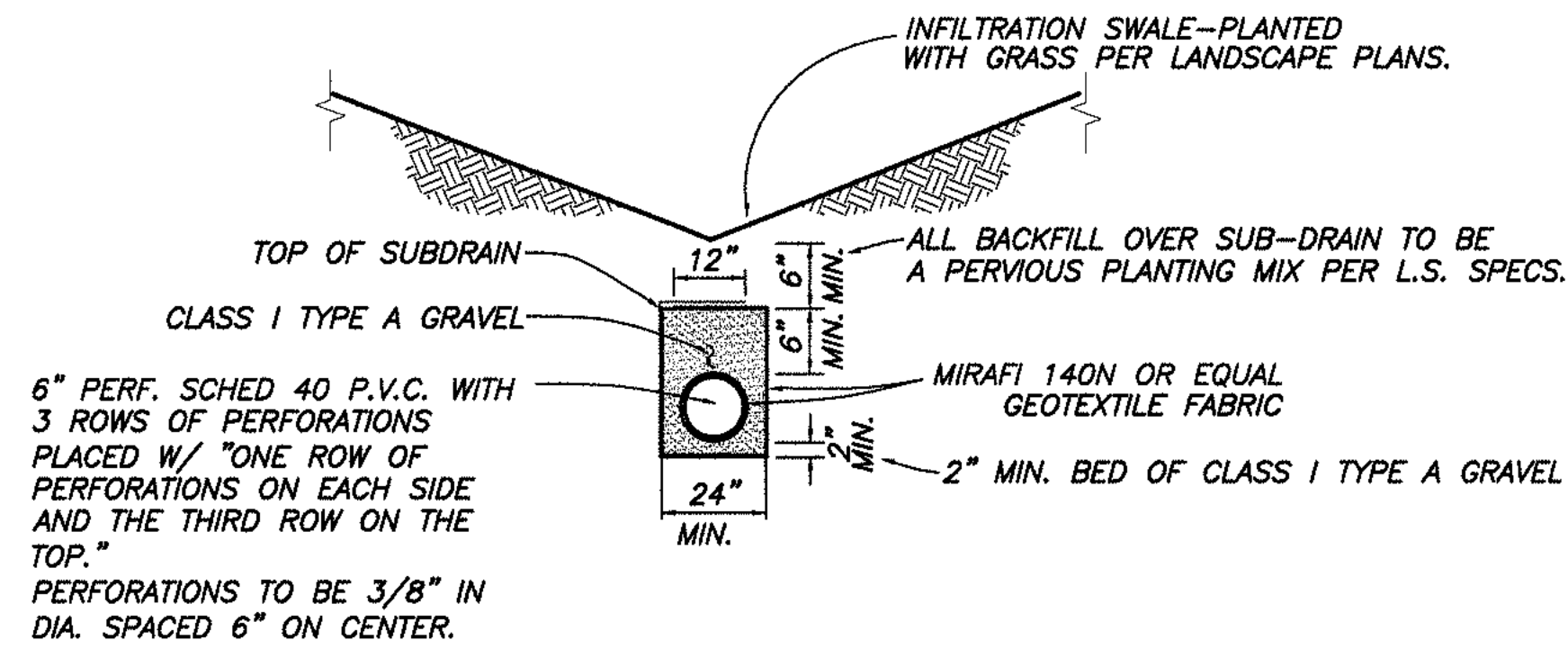
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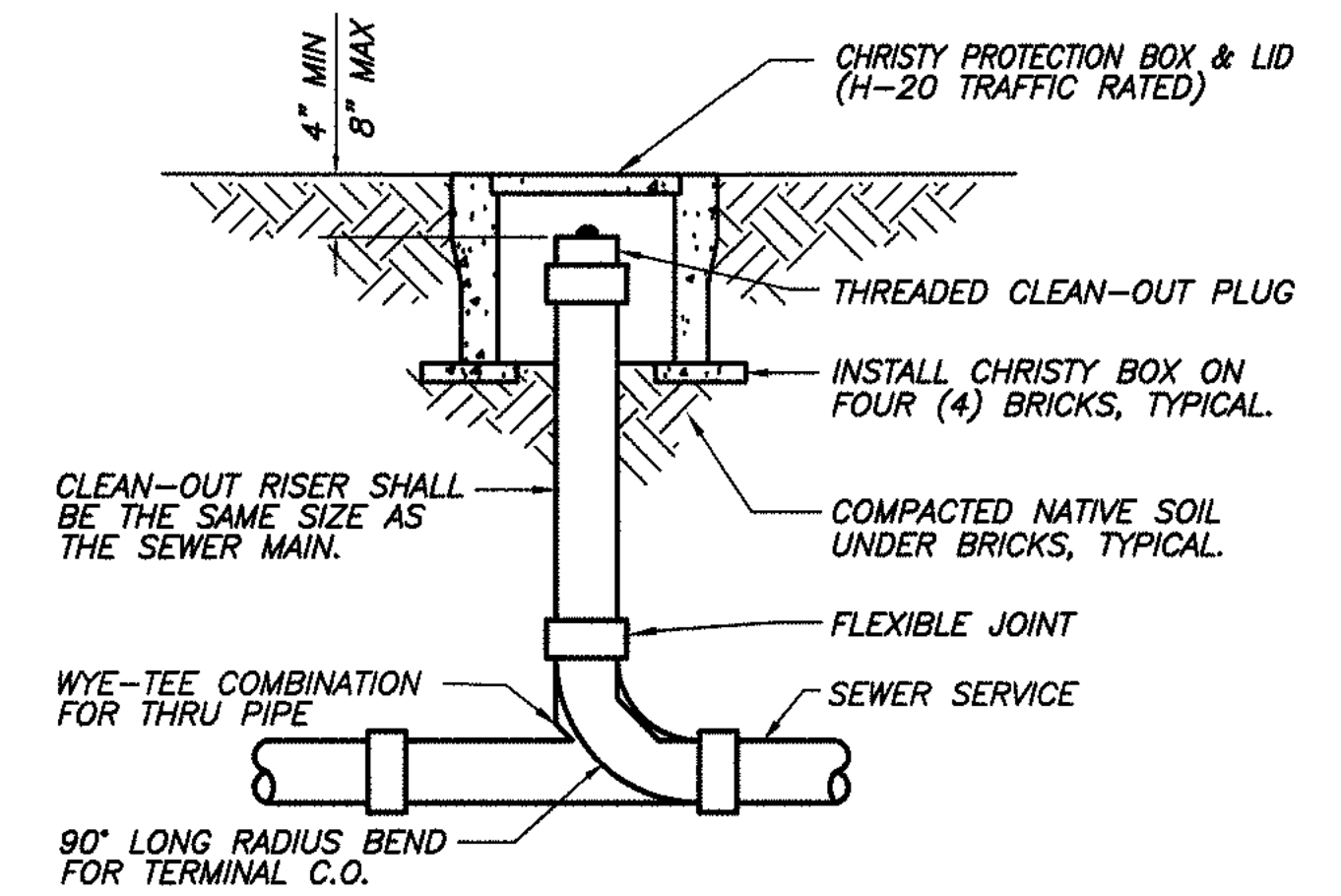
LANDSCAPE CATCH BASIN
N.T.S.



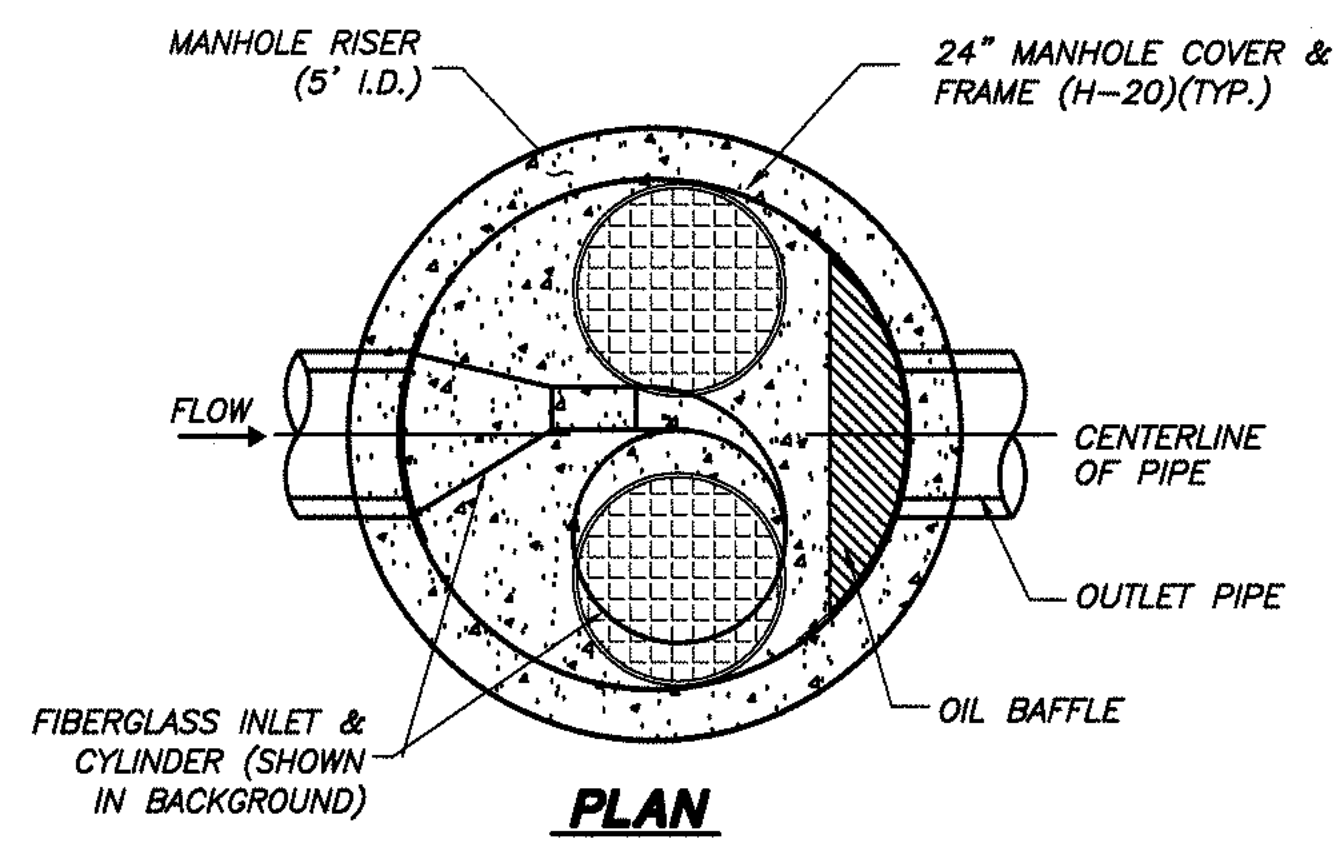
ON-SITE TRENCH BACKFILL DETAIL
NO SCALE



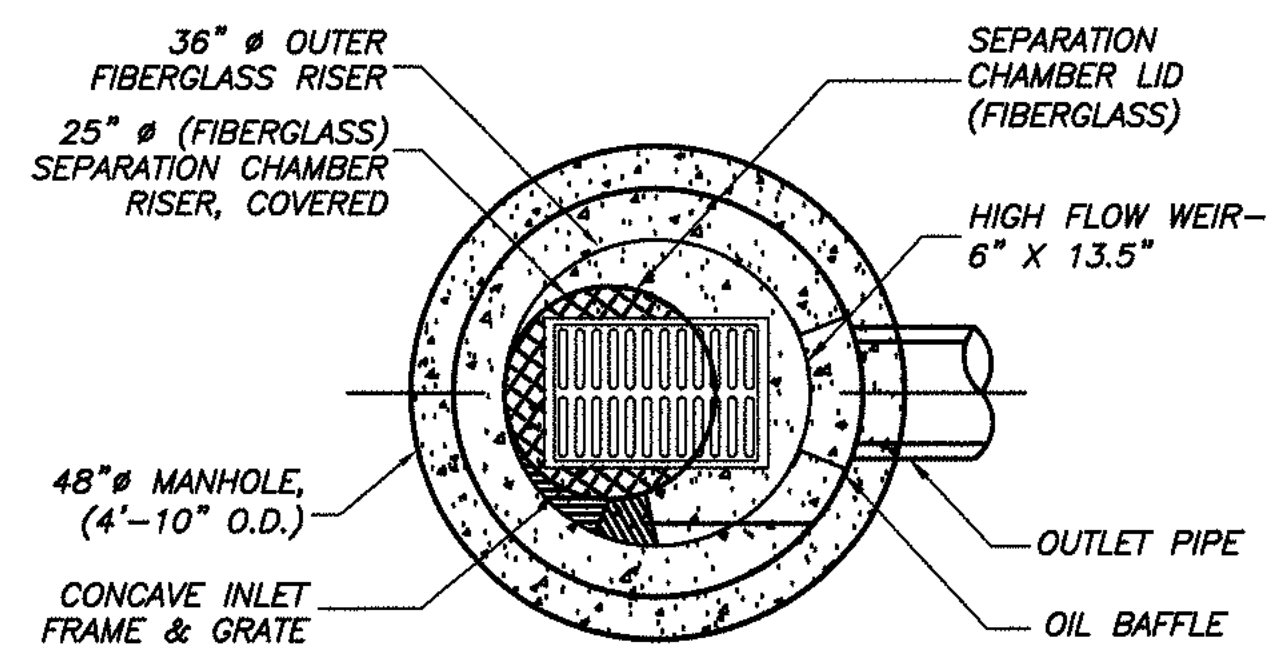
PERFORATED PIPE DETAIL
N.T.S.



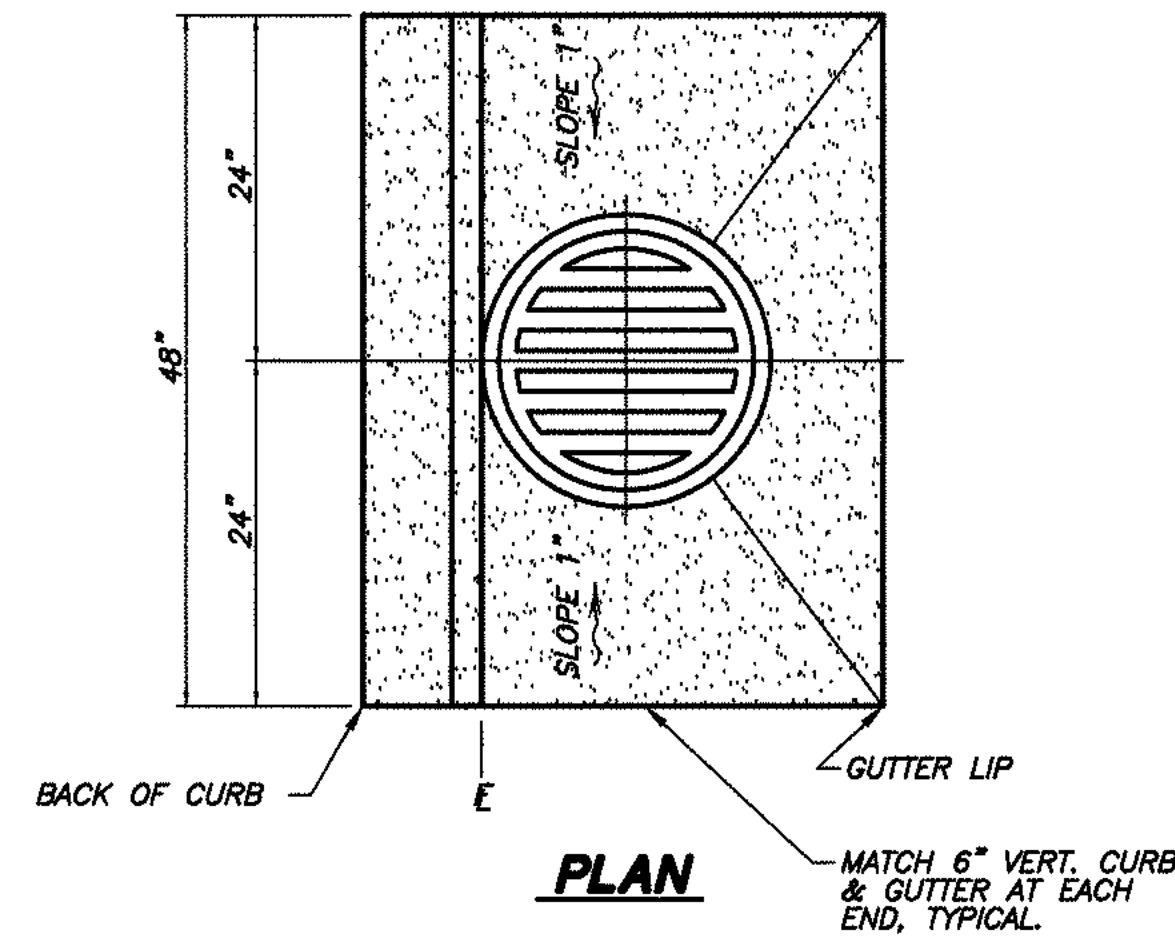
SEWER CLEAN-OUT DETAIL
NO SCALE



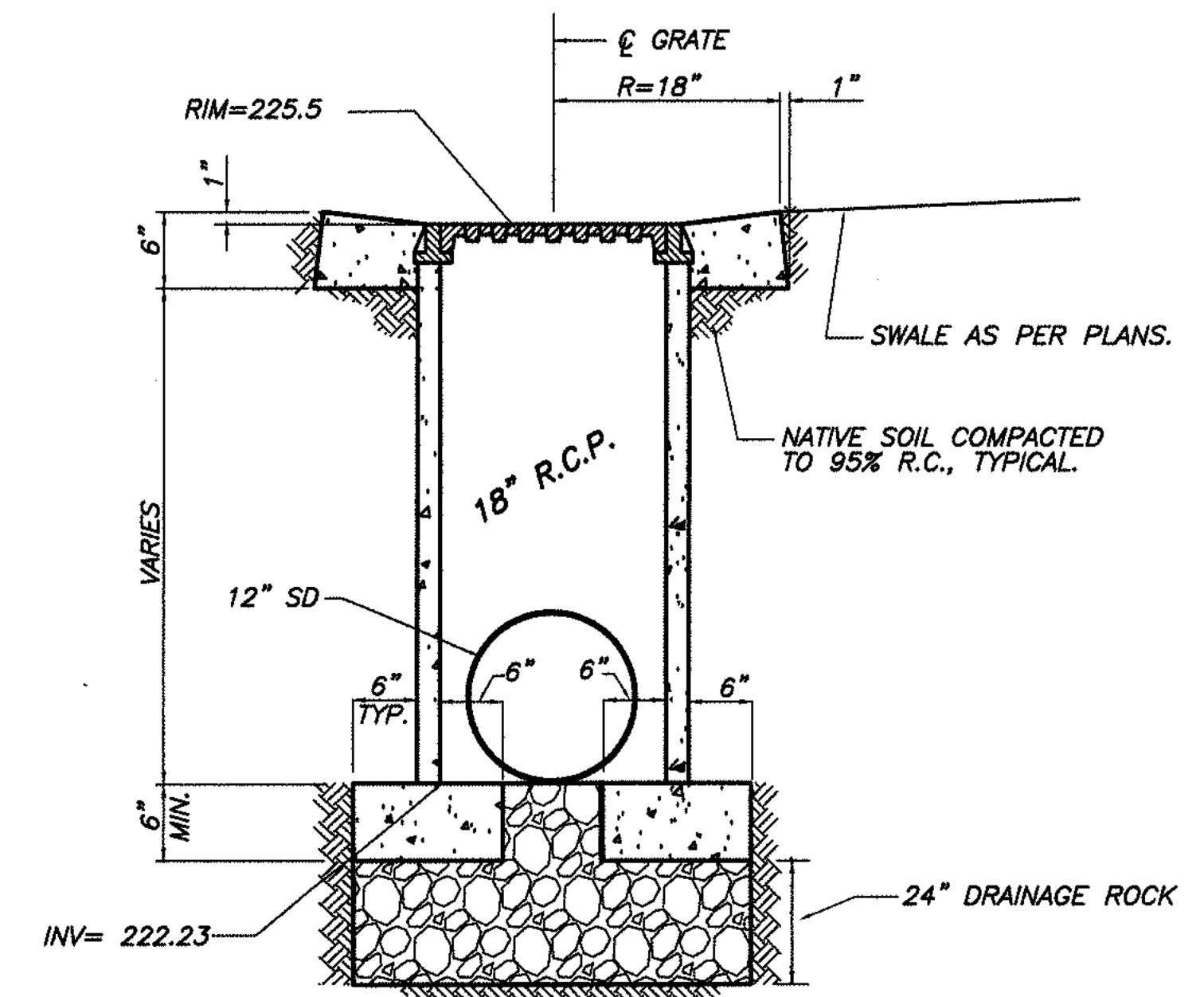
PLAN



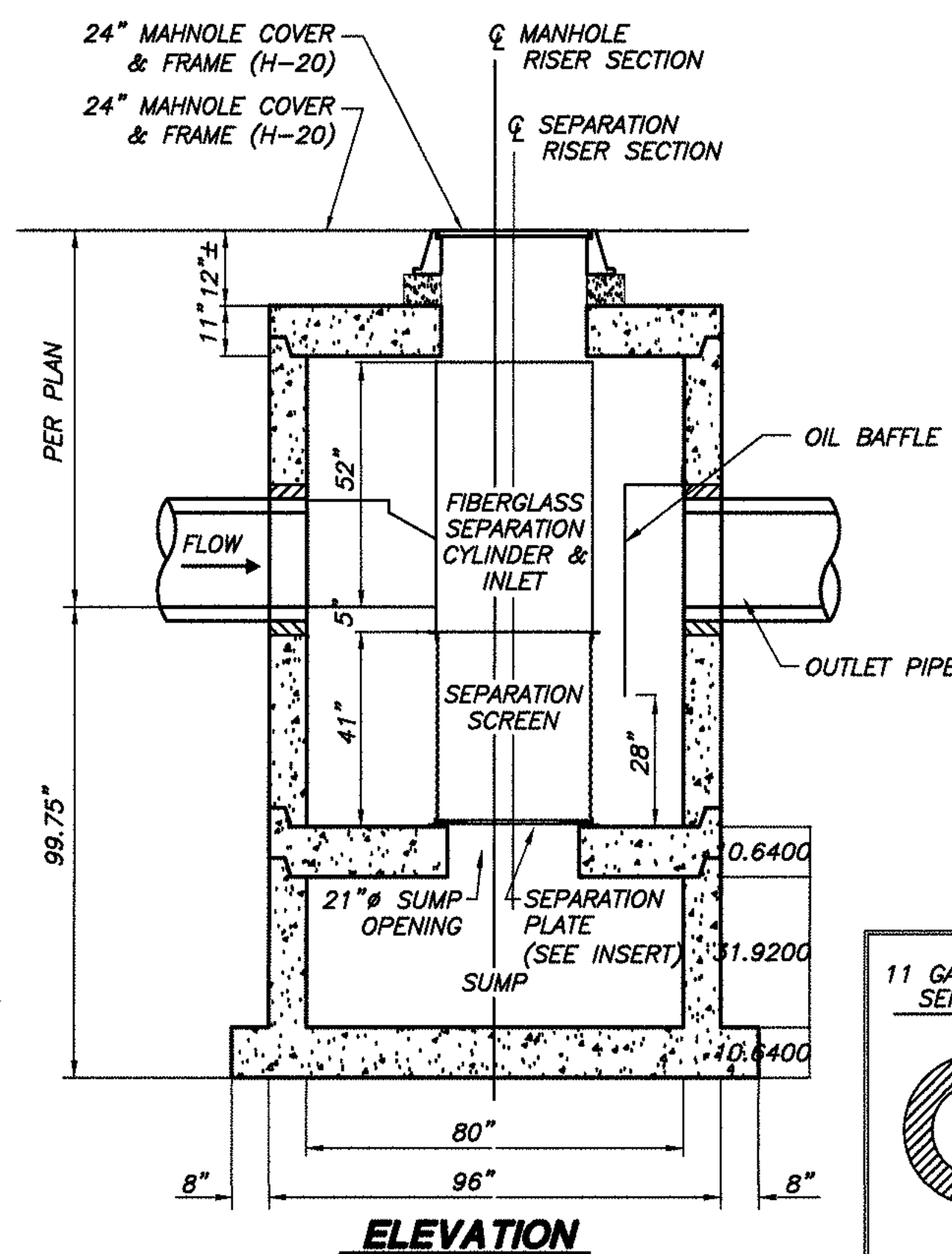
PLAN



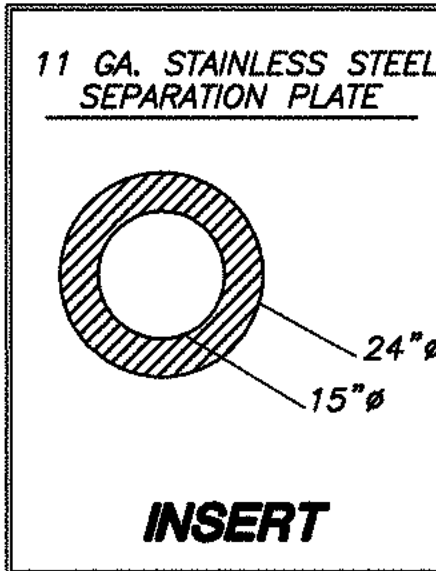
PLAN



ELEVATION
BUBBLE UP INSTALLATION
CATCH BASIN DETAIL
NO SCALE

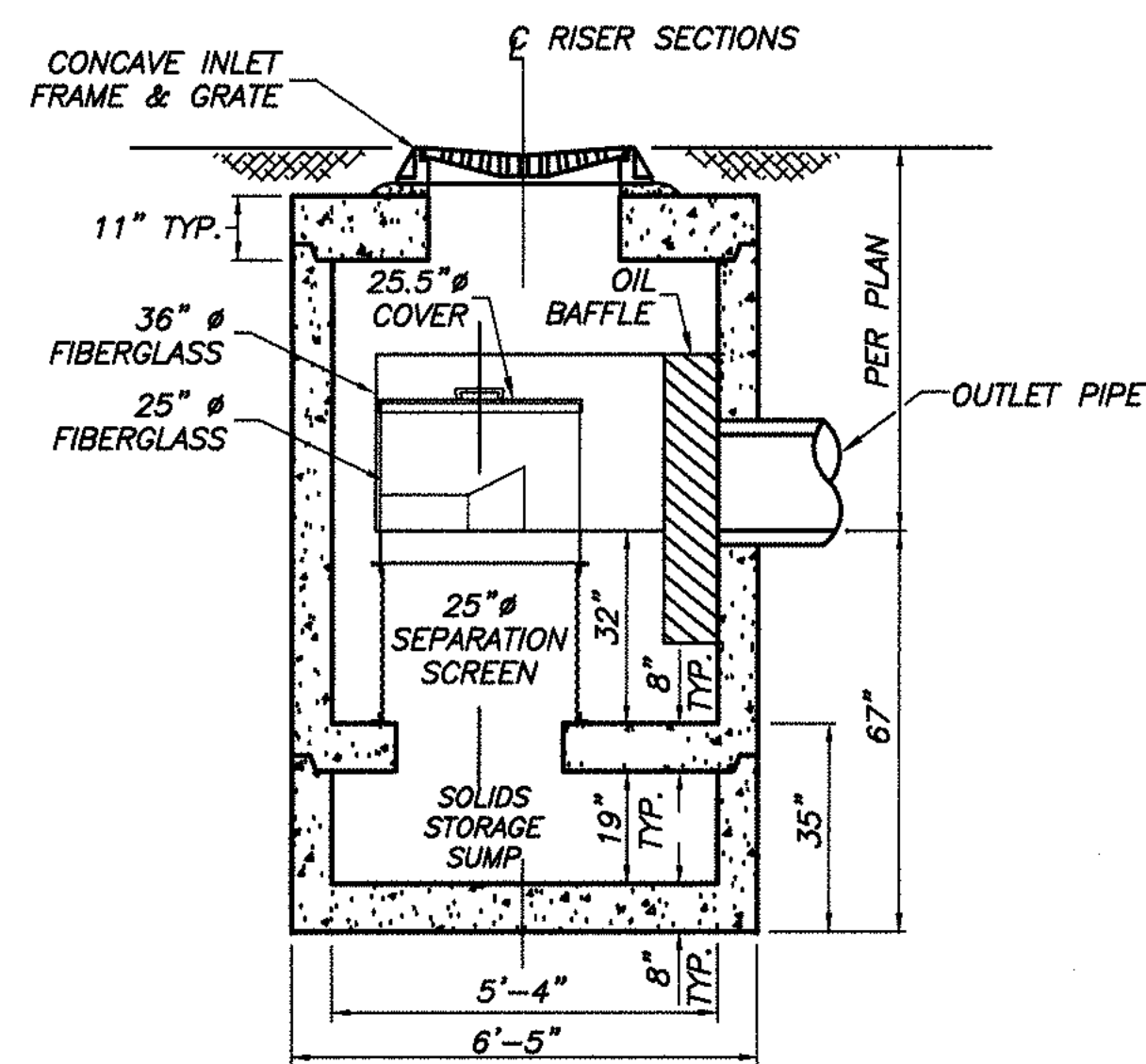


ELEVATION



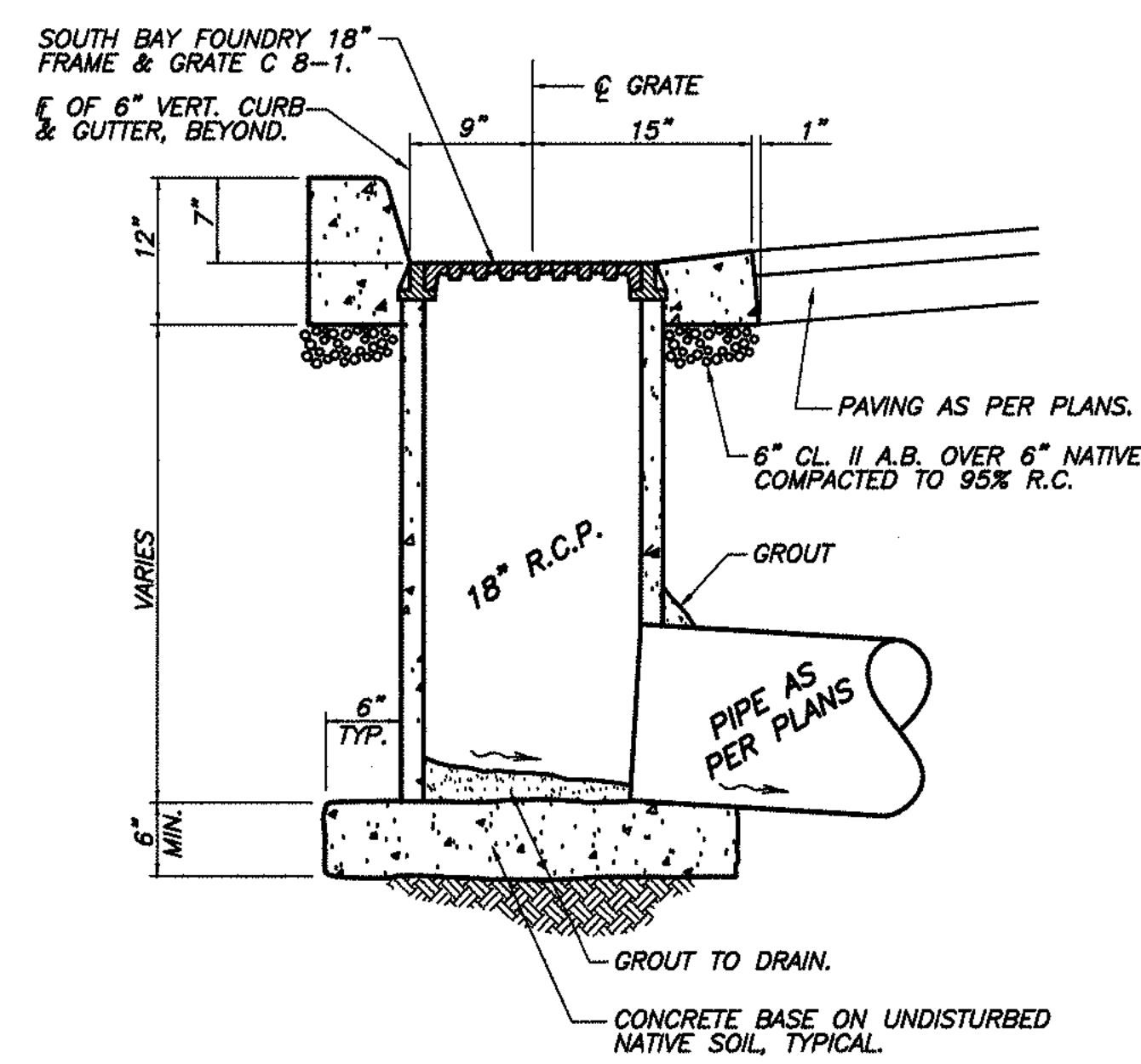
INSERT

(C.D.S. TECHNOLOGIES MODEL PMSU20_25)
STORMWATER SEPARATOR DETAIL
N.T.S.



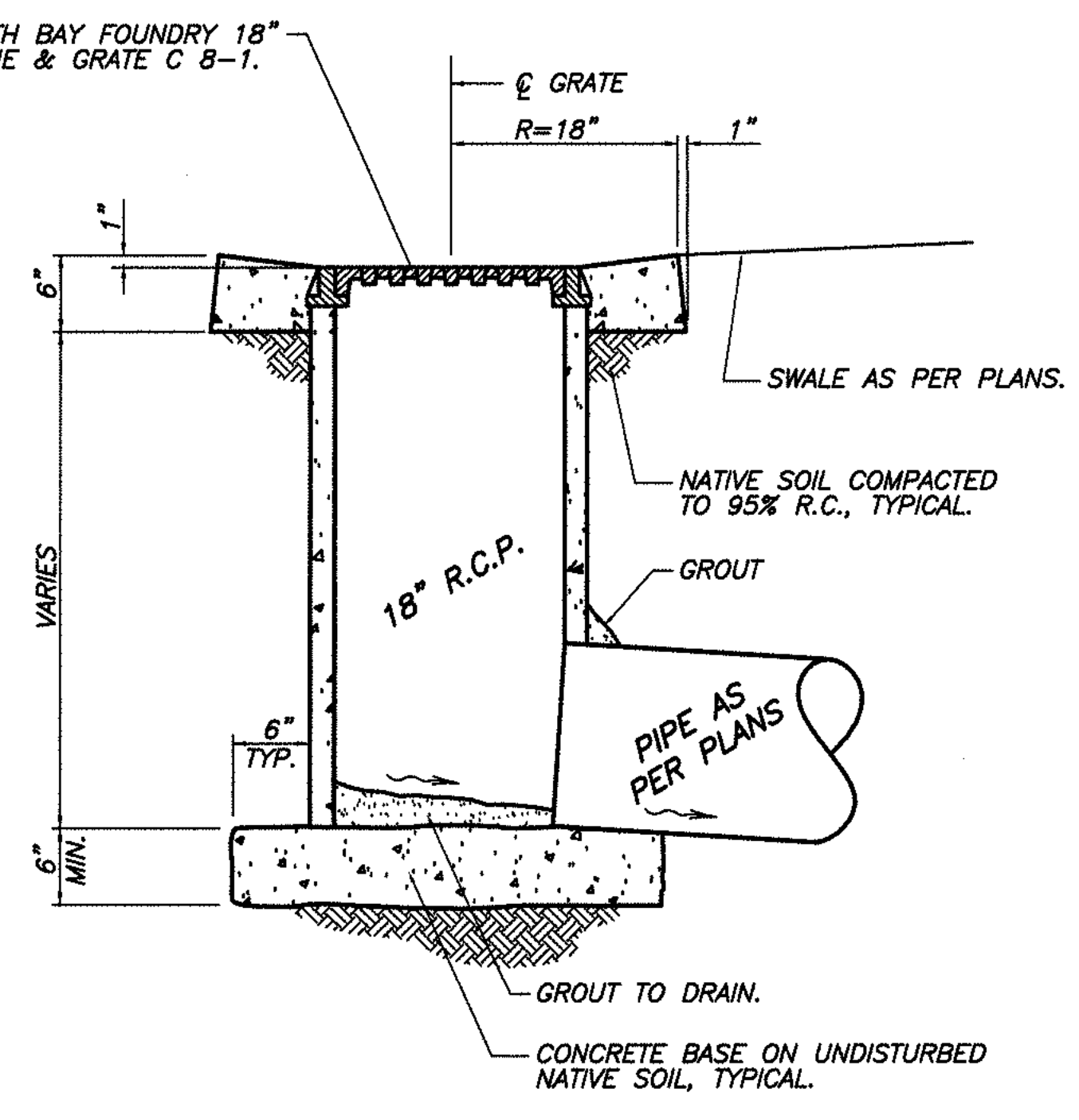
ELEVATION

(C.D.S. TECHNOLOGIES MODEL PMU20_15)
STORMWATER SEPARATOR DETAIL
N.T.S.



ELEVATION

(CURB & GUTTER INSTALLATION)
CATCH BASIN DETAIL
NO SCALE



ELEVATION

CATCH BASIN DETAIL
NO SCALE

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SHAWMUT
architecture
interiors
planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Merito Drive, Suite 1
Redwood, CA 95075
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
343 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
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Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 495 4083 T
415 495 4660 F

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Contract Documents

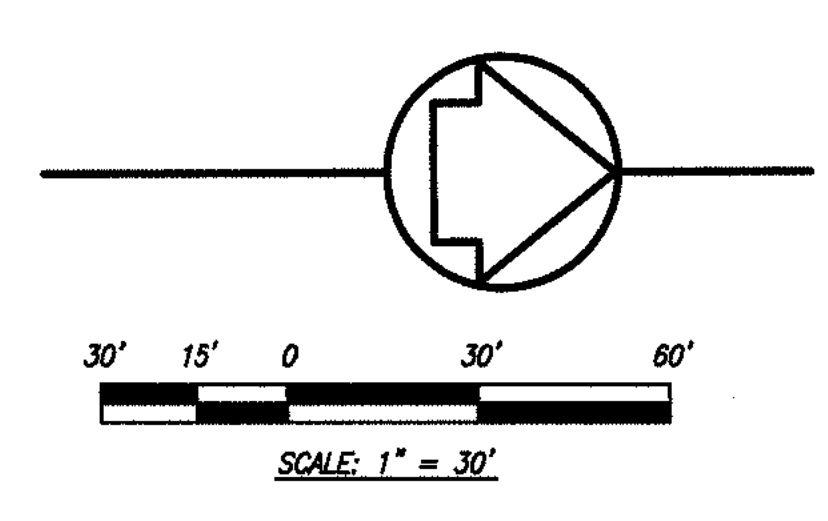
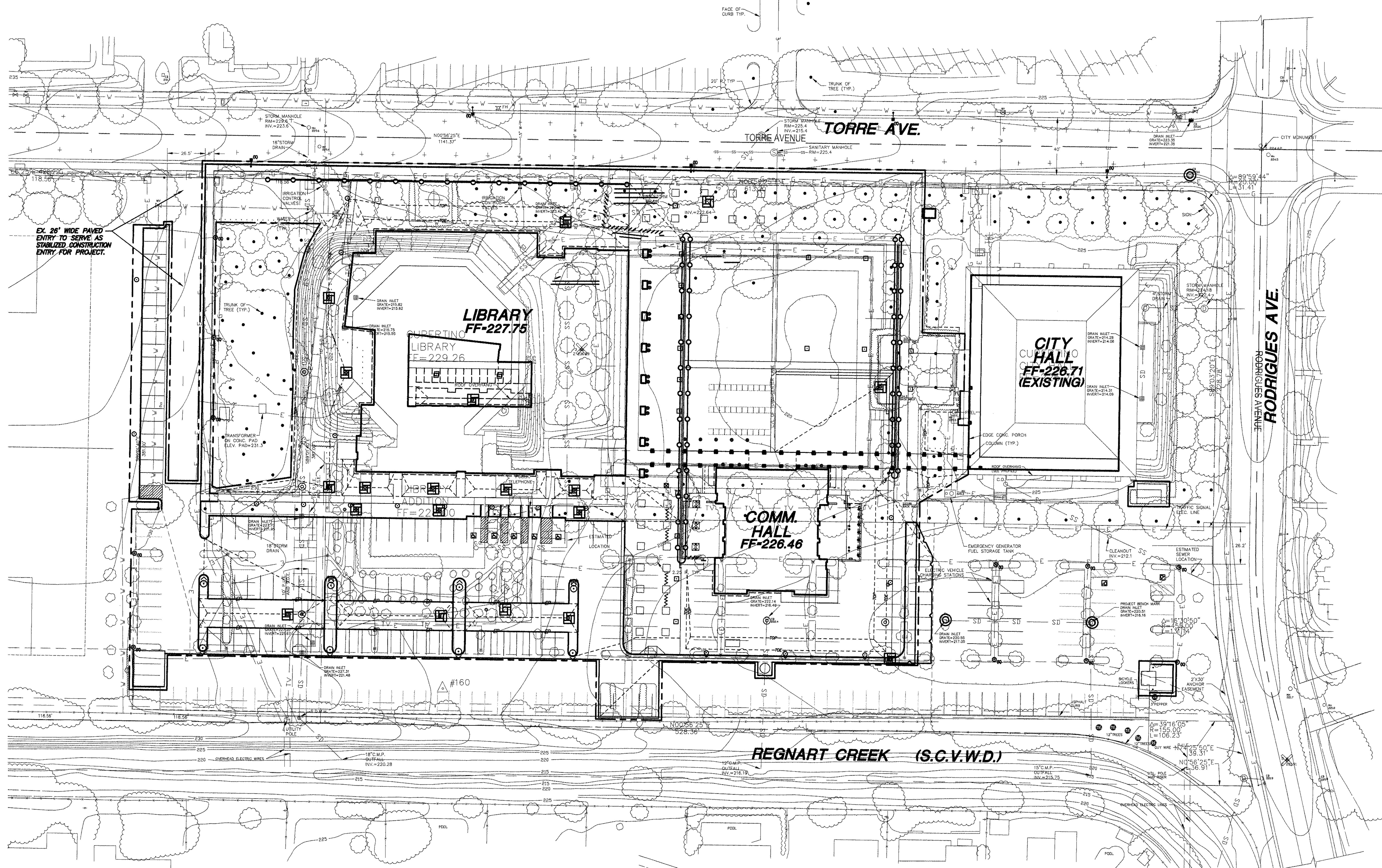
SANDIS HUMBER JONES
590 Merito Drive, Suite 1
Redwood, CA 95075
Tel: 916 435-2400 Fax: 916 435-2410

BID SET

CONSTRUCTION
DETAILS

Scale: NOTED date: 2003.04.18
drawn by: R.J.J. project number: 20114.00
sheet number:

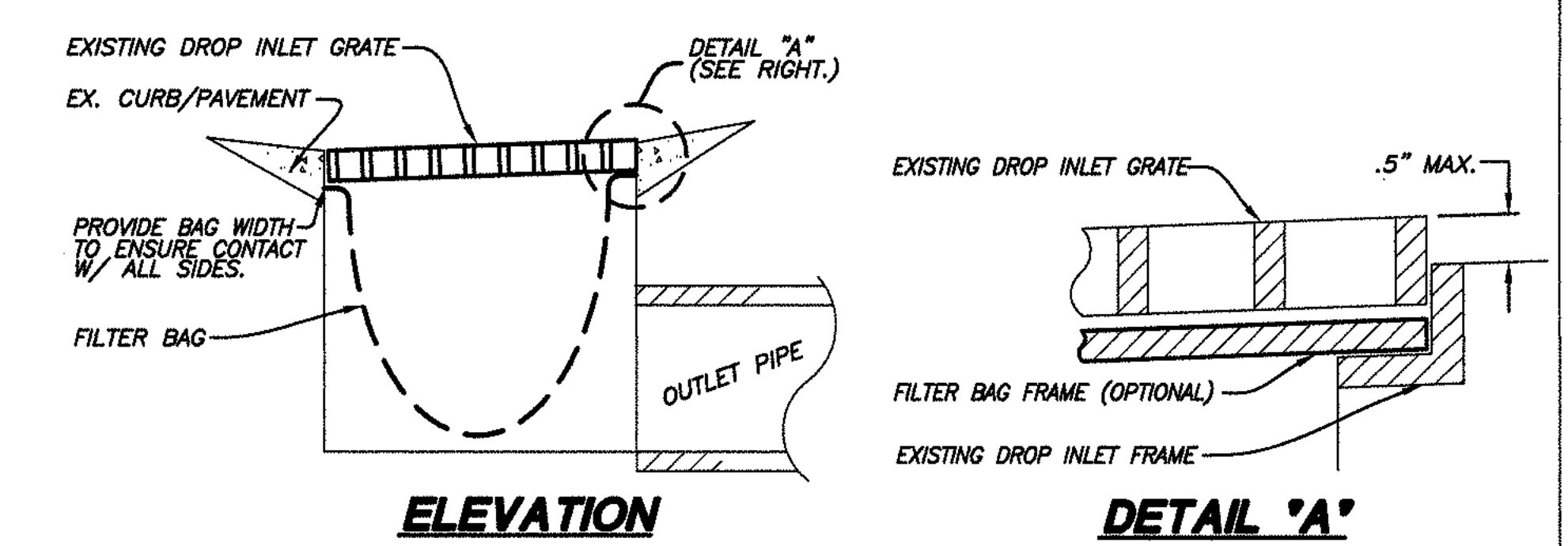
C6.1



- LEGEND**
- PROP. GRAVEL BAG INLET BARRIER (PER CITY OF CUPERTINO STDS.)
 - PROP. INLET FILTER BAG (PER DETAIL ON THIS SHEET)
 - PROP. SILT FENCE (PER CITY OF CUPERTINO STDS.)
 - PROP. STRAW WATTLE (PER CITY OF CUPERTINO STDS.)

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL FOLLOW CITY OF CUPERTINO GUIDELINES FOR THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN OR STATED ON THESE PLANS. ANY MEASURES THAT ARE FOUND TO BE INSUFFICIENT SHALL BE REMOVED AND/OR REPLACED AS NECESSARY TO ENSURE ADEQUATE EROSION & SEDIMENT CONTROL.
2. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL THE EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1.
3. ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE CITY OF CUPERTINO.
4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE CITY OF CUPERTINO.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
6. CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPs, AS WELL AS ANY CORRECTIVE CHANGES TO THE BMPs OR EROSION AND SEDIMENT CONTROL PLAN.
7. IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO AREAS WILL BE LEFT EXPOSED OVER THE WINTER SEASON AND CONTRACTOR SHALL HYDROSEED AS NECESSARY PER CITY OF CUPERTINO REQUIREMENTS.
8. ALL CONSTRUCTION TRAFFIC ENTERING THE TORRE AVE. MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED TO EXIT TO RODRIGUES AVE.
9. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY OR AS NECESSARY.
10. THIS PLAN IS INTENDED TO BE USED IN CONJUNCTION WITH THE SWPPP PREPARED FOR THIS PROJECT BY THE CITY. CONTRACTOR SHALL ENSURE THAT AN N.O.I. HAS BEEN FILED WITH THE REGIONAL WATER QUALITY CONTROL BOARD PRIOR TO BEGINNING WORK AND SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AS NECESSARY.
11. CONTRACTOR SHALL PLACE GRAVEL BAG BARRIERS AROUND ALL EX. DRAINAGE STRUCTURE OPENINGS NOTED AND ALL NEW DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE MEASURES SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.
12. CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:
 - A. SOLID WASTE MANAGEMENT: PROVIDE DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS. ARRANGE FOR REGULAR REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING ORGANIC DEBRIS, PACKING MATERIALS, SCRAPS OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY.
 - B. MATERIAL DELIVERY AND STORAGE: PROVIDE A DESIGNATED MATERIAL STORAGE AREA WITH THE SECONDARY CONTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALLETS AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY.
 - C. CONCRETE WASTE: PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.
 - D. PAINT AND PAINTING SUPPLIES: PROVIDE INSTRUCTIONS TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE USE, AND CLEAN UP. INSPECT SITE WEEKLY FOR EVIDENCE OF IMPROPER DISPOSAL.
 - E. VEHICLE FUELING, MAINTENANCE AND CLEANING: PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ONSITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA WEEKLY.
 - F. HAZARDOUS WASTE MANAGEMENT: PREVENT THE DISCHARGE OF POLLUTANTS FROM THE HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ONSITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION STABILIZATION PRODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.



- NOTES:**
1. THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS PER LINEAL FOOT, AN EQUIVALENT OPENING SIZE NOT GREATER THAN A 20 SIEVE, AND WITH A MINIMUM FLOWRATE OF 40 GAL./MIN/S.F.
 2. THE FILTER BAG MAY BE SUSPENDED FROM OR HELD IN PLACE BY THE EXISTING INLET GRATE (OR OTHER APPROVED METHOD), PROVIDING NO MODIFICATION OR DAMAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED TO REST MORE THAN 0.5" ABOVE THE INLET FRAME (SEE DETAIL "A").
 3. THE FILTER BAG MAY EXTEND TO THE BOTTOM OF THE INLET BOX PROVIDED THE OUTLET PIPE IS UNOBSTRUCTED.
 4. FLOWS SHALL NOT BE ALLOWED TO BYPASS THE BAG. THE BAG OR ITS FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET, EXCEPT AS SHOWN FOR FLOOD RELEASE.
 5. INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE-THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.

STORM DRAIN INLET FILTER BAG DETAIL
N.T.S.

04-30-02
06-30-02

SIAMVA
architecture
interiors
planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Merlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Elsesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
343 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
370 Brennan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

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370 Brennan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

Stamp

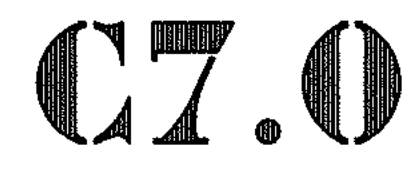
TITLE

BID SET

Sheet 006

**EROSION CONTROL
PLAN**

Scale 1"=30' Date 2003.04.18
Drawn By R.J.J. Project Number 20111.00
Sheet Number



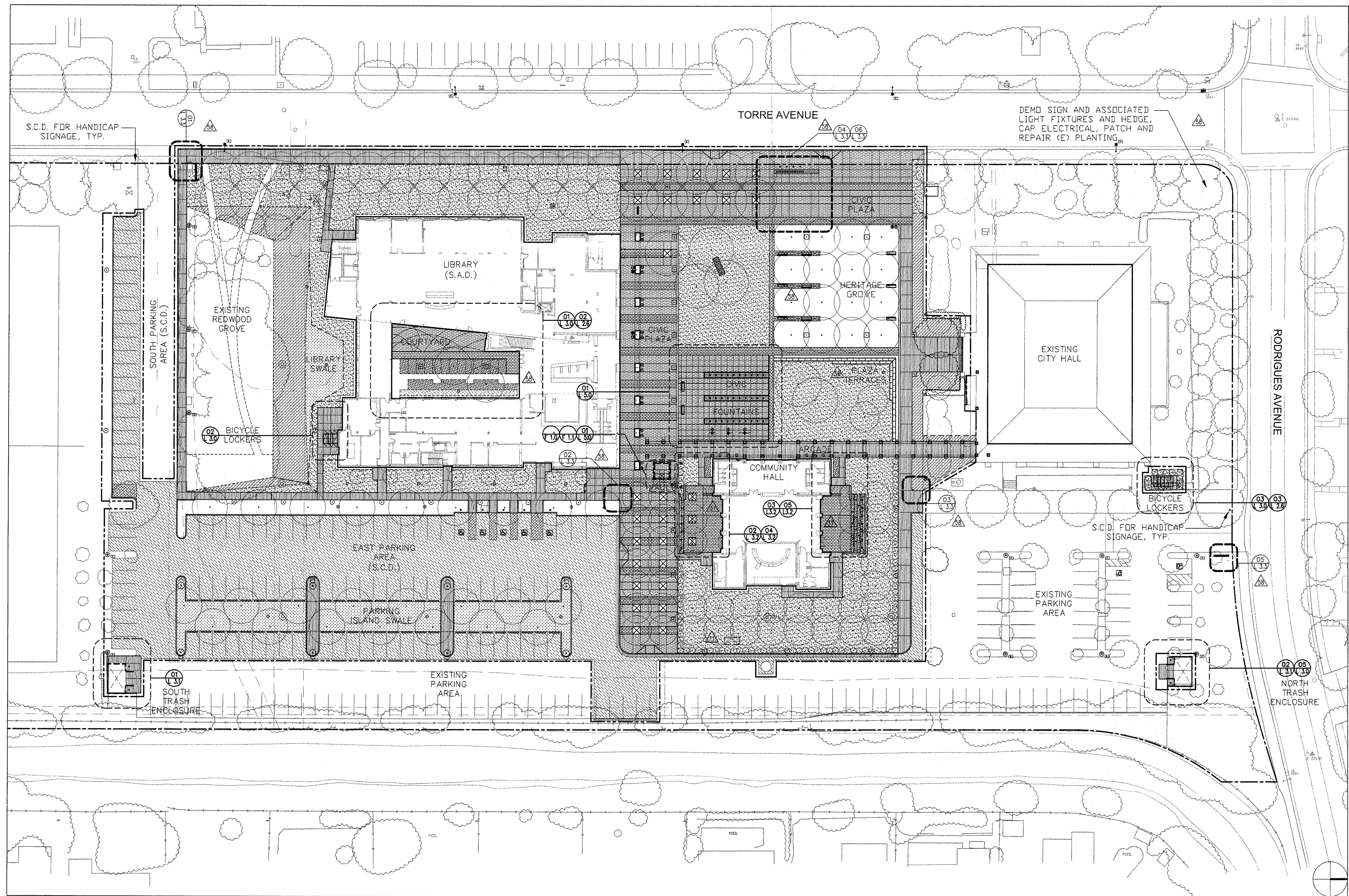
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SURVEY LEGEND

- EXISTING
- PROPERTY LINE
 - EASEMENT
 - FENCE
 - WATER VALVE
 - STREET LIGHT
 - PEDESTRIAN LIGHT
 - TREE
 - SHRUB
 - DRAIN INLET
 - VEHICLE CHARGING STATION

SURFACE LEGEND

- PROPOSED
- LIMIT OF WORK/CONTRACT



SITE PARKING NOTES:

TOTAL NUMBER OF PARKING SPACES IN PROJECT: 219
 TOTAL NUMBER OF HANDICAP ACCESSIBLE PARKING SPACES REQUIRED*: 7
 -NUMBER OF HANDICAP (VAN) SPACES REQUIRED*: 1

TOTAL NUMBER OF HANDICAP ACCESSIBLE PARKING SPACES PROVIDED: 7
 -NUMBER OF HANDICAP (CAR) SPACES IN PROJECT: 5
 -NUMBER OF HANDICAP (VAN) SPACES IN PROJECT: 2

*PER 2002 STATE OF CALIFORNIA, DEPARTMENT OF GENERAL SERVICES - DIVISION OF THE STATE ARCHITECT, ACCESS COMPLIANCE MANUAL - CHAPTER 11, PART 2

989 Market Street, 3rd Floor, San Francisco, CA 94103
 415 546 6400 T
 415 582 7086 F
 www.smmw.com

SMMW
 architecture
 interiors
 planning
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City of
 Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3353 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redwood, CA 95765
 916 435 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

Forell/Elsesser
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 337 0700 T
 415 837 0800 F

Flack + Kurtz
 343 Sansome Street
 Suite 450
 San Francisco, CA 94104
 415 398 3633 T
 415 433 5311 F

Architectural
 Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415 495 4065 T
 415 495 4660 F

Revisions	Date	Description
	2004.02.13	CCD035
	2004.03.18	CCD032
	2004.03.18	CCD034
	2004.04.12	CCD043
	2004.05.06	CCD056

11-29-04 Updated Contract Documents

Stamp

Issue

Sheet Title

60'

BID SET

LANDSCAPE
 SITE
 PLAN

Scale: 1"=30'-0"
 Date: 2003.04.18
 Drawn by: BJ
 Project number: 20114.00
 Sheet number:

L1.0

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Revisions	Date	Description
1	2004.02.13	CC0035
2	2004.03.18	CC0031
3	2004.03.18	CC0032
4	2004.03.18	CC0033
5	2004.03.18	CC0034
6	2004.05.06	CC0056
7	2004.05.10	CC0058

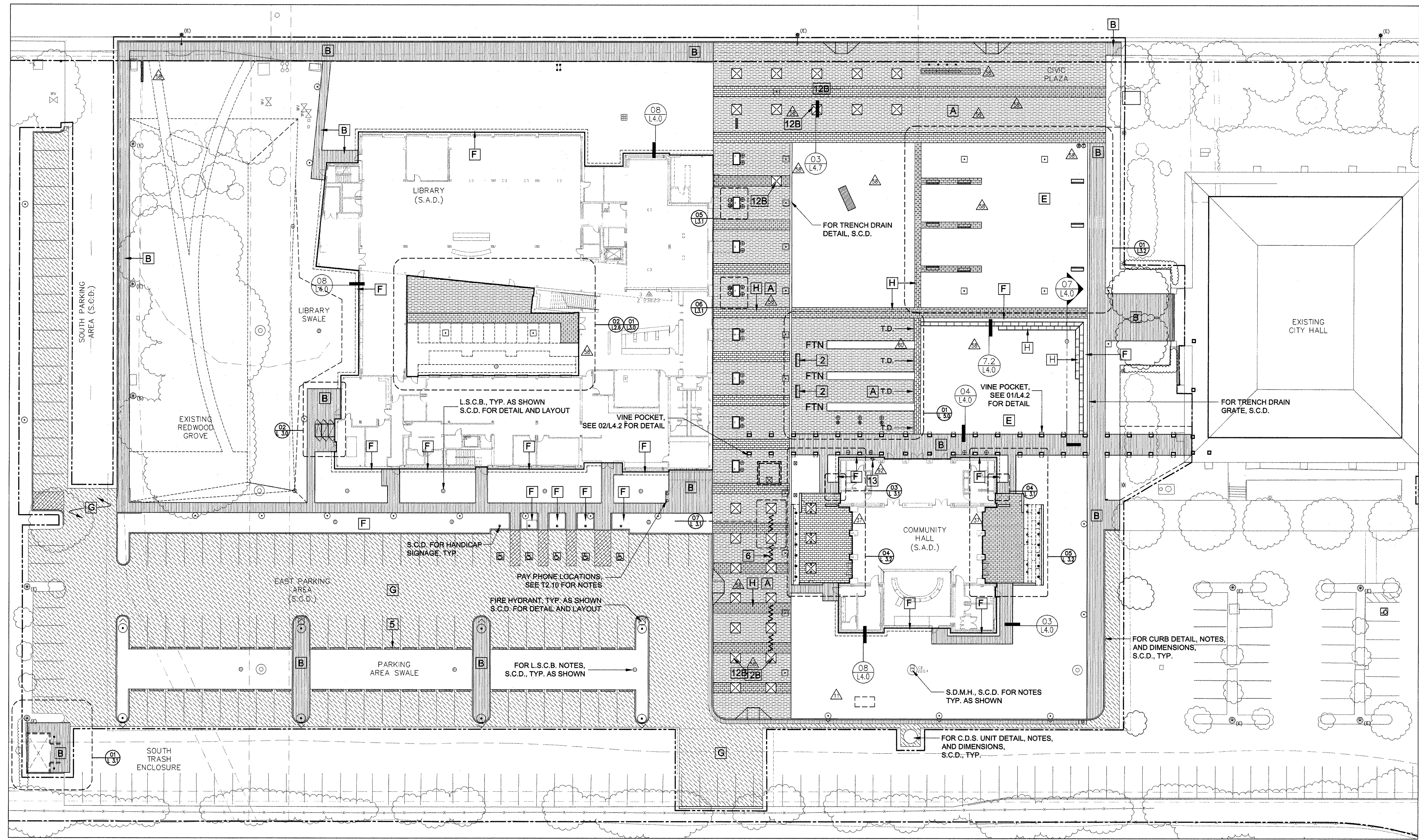
11-29-04 Updated
 Contract Documents

Stamp
 Issue
 BID SET
 Street Date
 4/07

LANDSCAPE
 MATERIALS
 AND
 FURNITURE
 PLAN

Scale: 1"=20'-0" Date: 2003.04.18
 Drawn by: Bl Project Number: 20114.00
 Sheet Number

L2.0



SURVEY LEGEND

EXISTING

- PROPERTY LINE
- EASEMENT
- FENCE
- WATER VALVE
- STREET LIGHT
- PEDESTRIAN LIGHT
- TREE
- SHRUB
- DRAIN INLET
- VEHICLE CHARGING STATION

SURFACE LEGEND

- LIMIT OF WORK/CONTRACT
- TYPE A CONCRETE WALK, SEE 02/L.4.0
- TYPE B CONCRETE WALK, SEE 05/L.4.0
- TYPE C PRE-CAST CONCRETE PAVEMENT WALK, SEE 01/L.4.5
- TYPE D PRE-CAST CONCRETE PAVEMENT WALK, SEE 02/L.4.3
- TYPE E CRUSHED STONE, SEE 01/L.4.0
- TYPE F CRUSHED STONE, SEE 06/L.4.0
- TYPE G ASPHALT PAVING, S.C.D.
- FTN FOUNTAIN, SEE L.5.0

FURNITURE LEGEND

- BENCH TYPE A, SEE L.4.3
- BENCH TYPE B, SEE L.4.3
- TRASH RECEPTACLE, SEE L.4.4
- RECYCLING RECEPTACLE, SEE L.4.4
- CONC. WHEEL STOP, S.C.D.
- BICYCLE RACK, SEE L.4.3
- 1 BICYCLE LOCKER, SEE SPEC.
- 2 BICYCLE LOCKER, SEE SPEC.
- 2 BICYCLE LOCKER, FOR 3-WHEEL BICYCLE, SEE SPEC.
- FLAGPOLE, (S.A.D. FOR DETAILS)
- BOLLARD, (S.C.D. FOR DETAILS)
- SITE LIGHTING (SEE LIGHTING LAYOUT PLAN, L.2.3)

FURNITURE LEGEND

- 12B TREE GRATE, TYPE B SEE L.01/L.4.7
- T.D. FOUNTAIN TRENCH DRAIN, SEE L.06/L.5.2
- 13 ANEMOMETER SEE SPEC. 13155

NOTES:
 1. ALL TREE GRATES ARE TYPE 12B EXCEPT (3) IN GARDEN ROOM.

SURFACE LEGEND

- TYPE H STONE, SEE L.2.01

NOTES:
 1. FOR LIGHTING FIXTURE TYPES, DETAILS AND QUANTITIES, S.E.D. AND SPECIFICATIONS

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Revisions	Date	Description
	2004.05.10	CCD058
	2004.05.21	CCD058R1

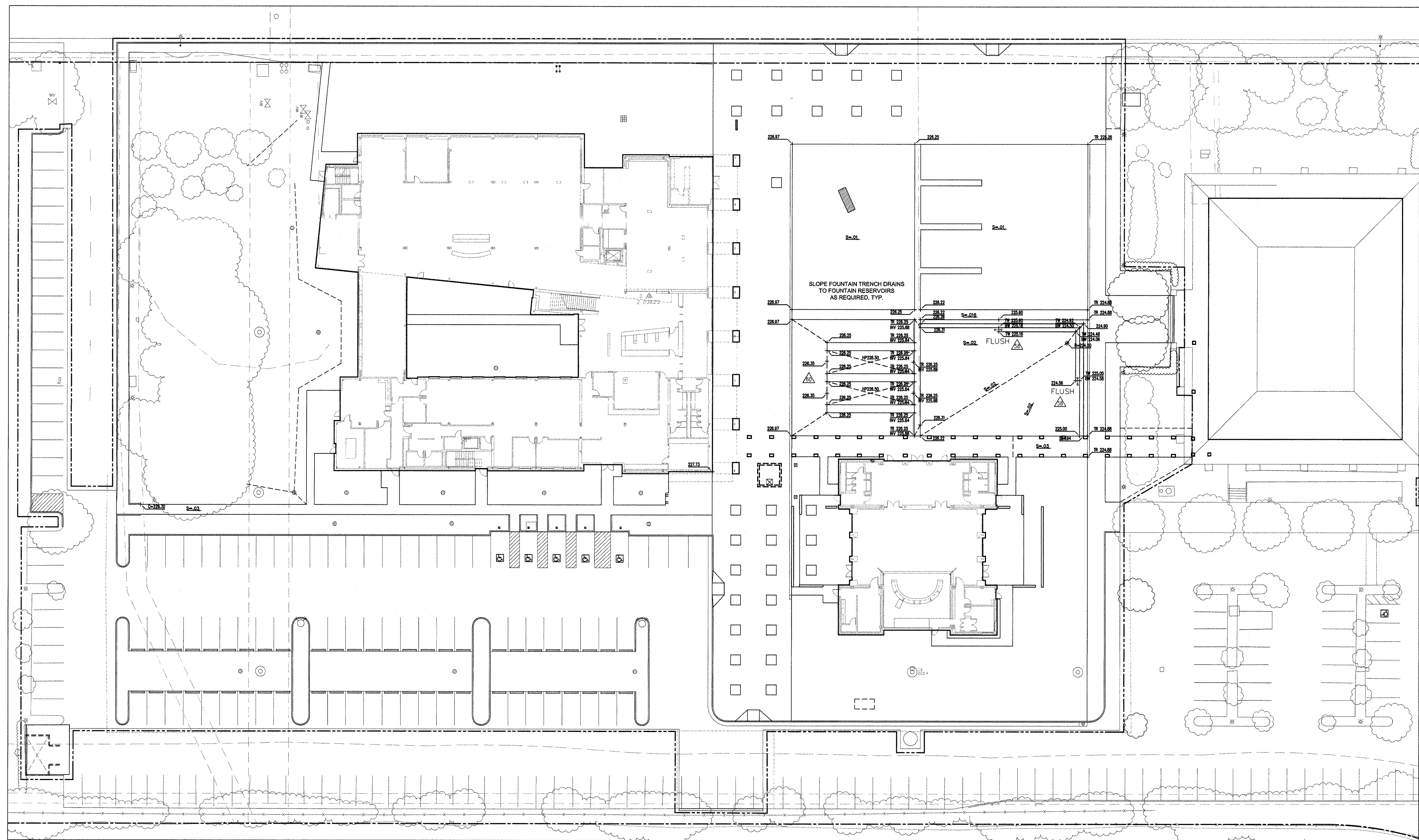
11-29-04 Updated
 Contract Documents

Stamp	Issue	Sheet
	BID SET	105

LANDSCAPE
 GRADING
 PLAN

Scale	Date
1"=20'-0"	2003.04.18
Drawn by	Project number
Sheet number	20114.00

L2.05



SURVEY LEGEND

EXISTING	PROPOSED
	PROPERTY LINE
	EASEMENT
	FENCE
	WATER VALVE
	STREET LIGHT
	PEDESTRIAN LIGHT
	TREE
	SHRUB
	DRAIN INLET
	VEHICLE CHARGING STATION

SURFACE LEGEND

PROPOSED	
	LIMIT OF WORK/CONTRACT

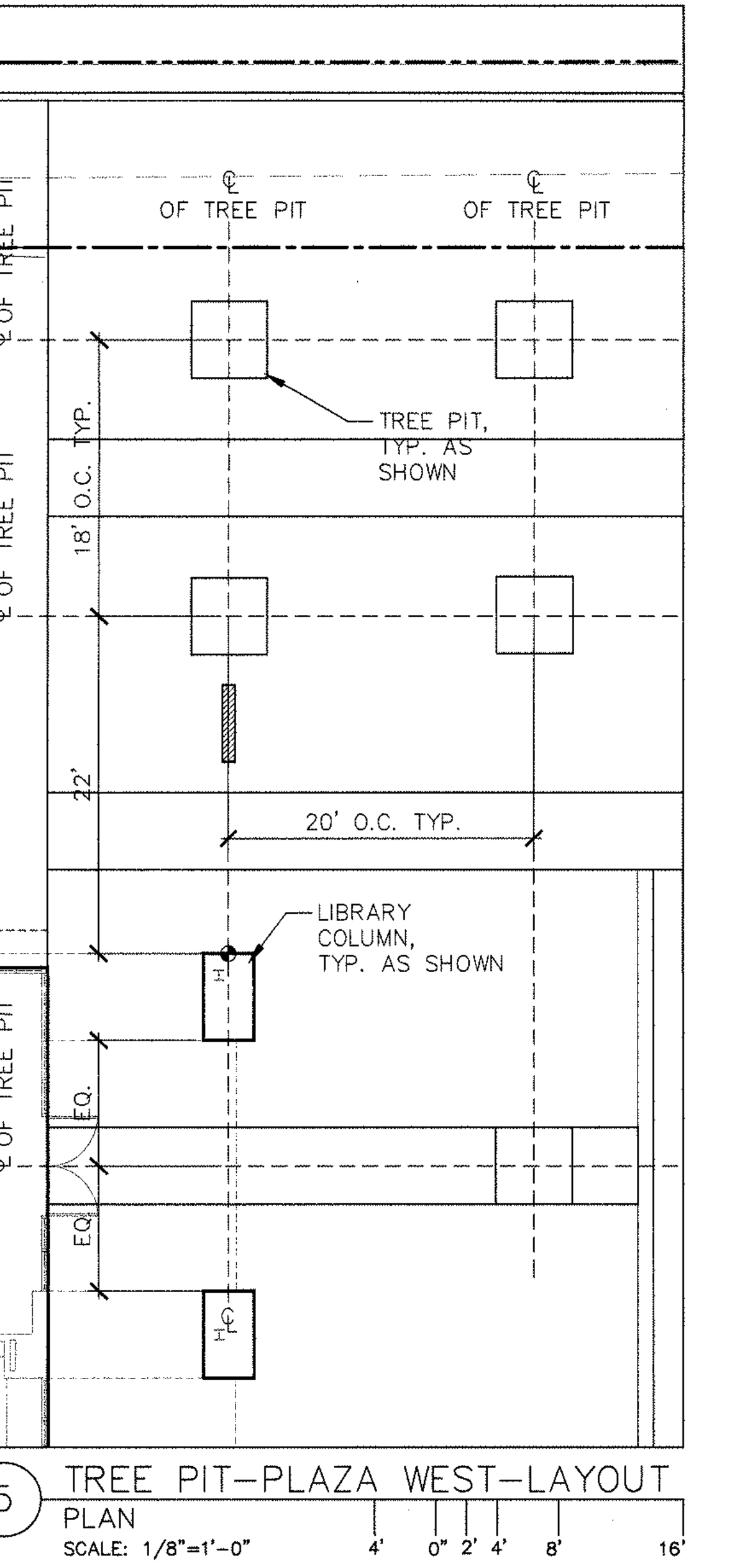
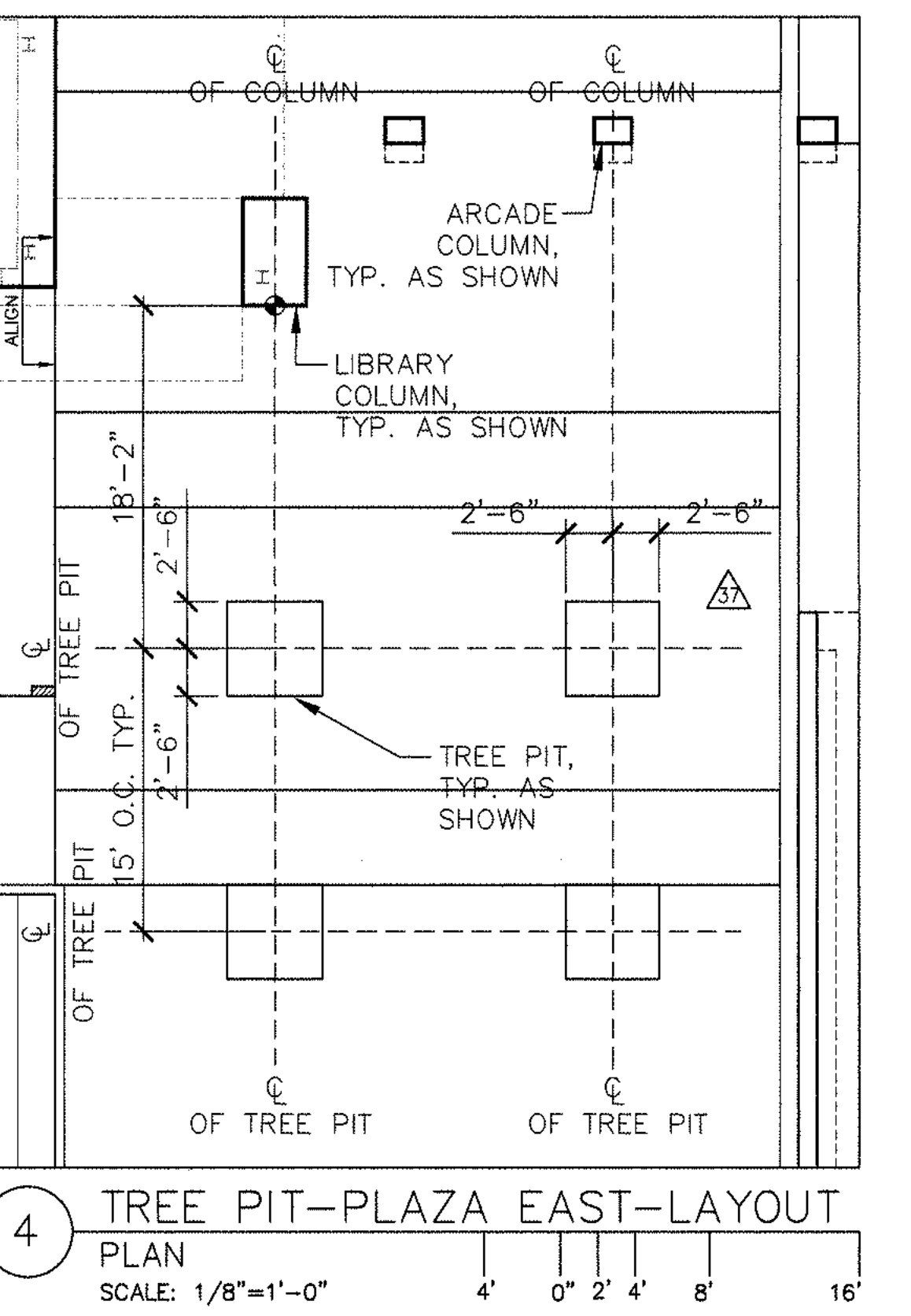
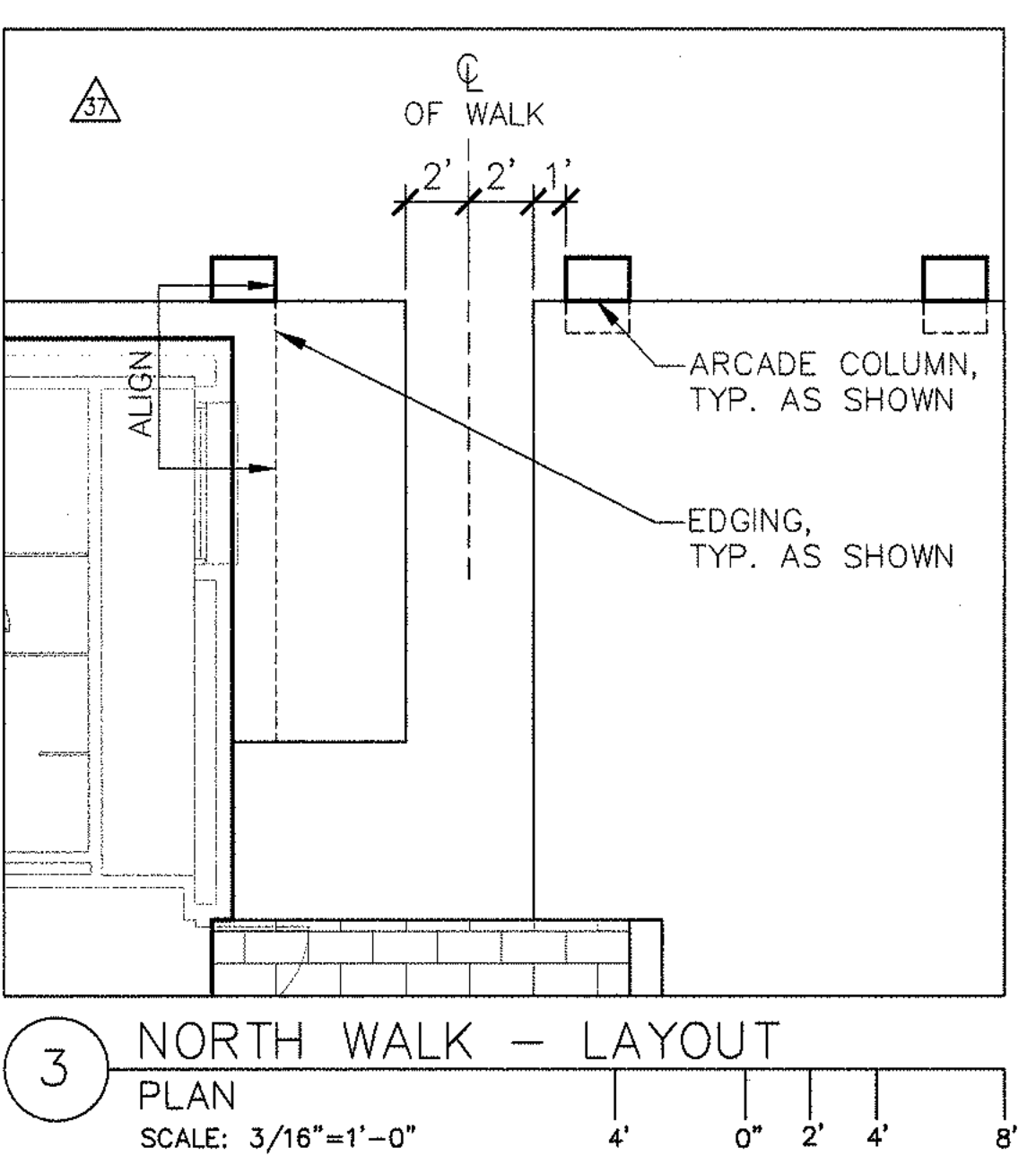
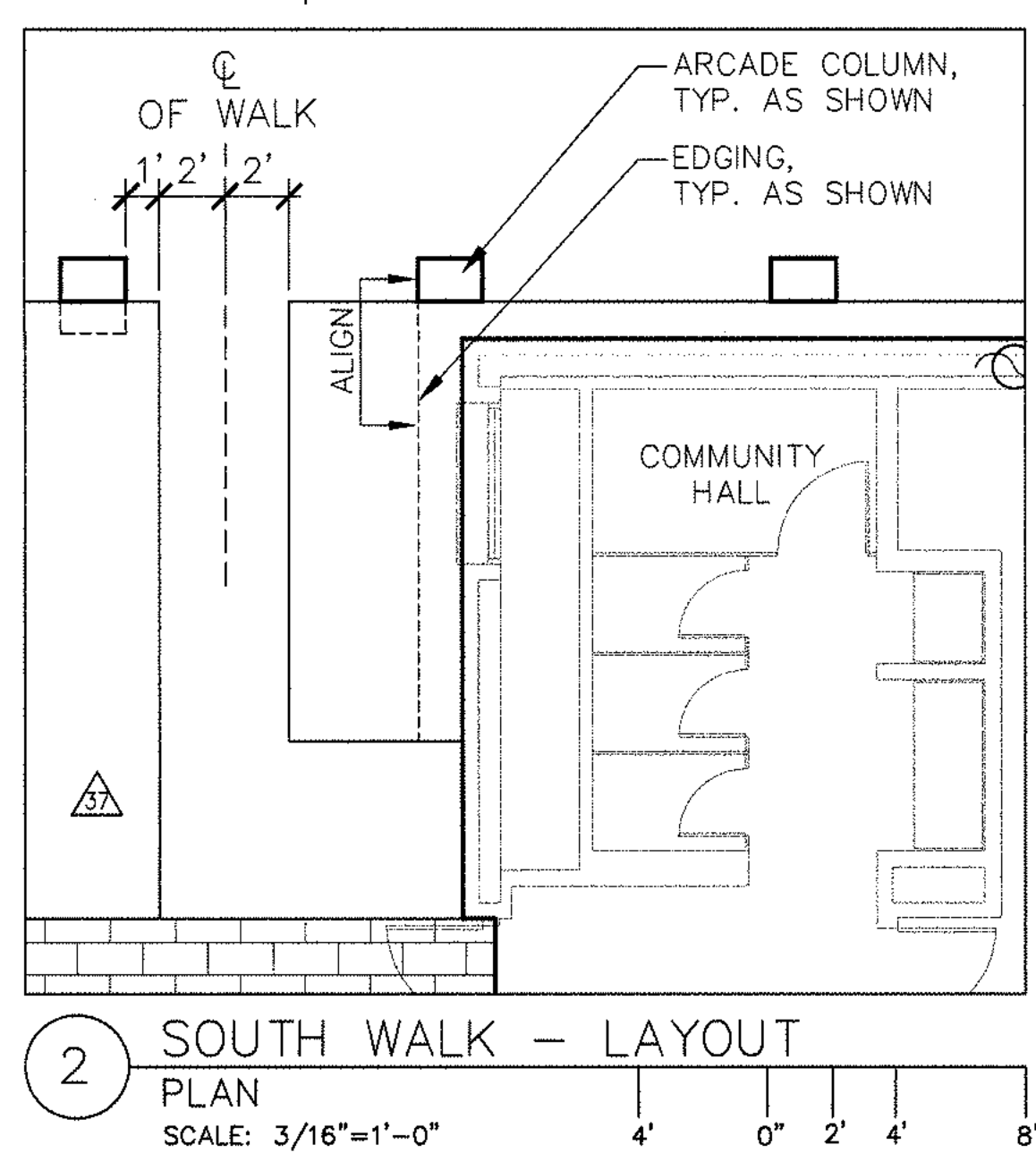
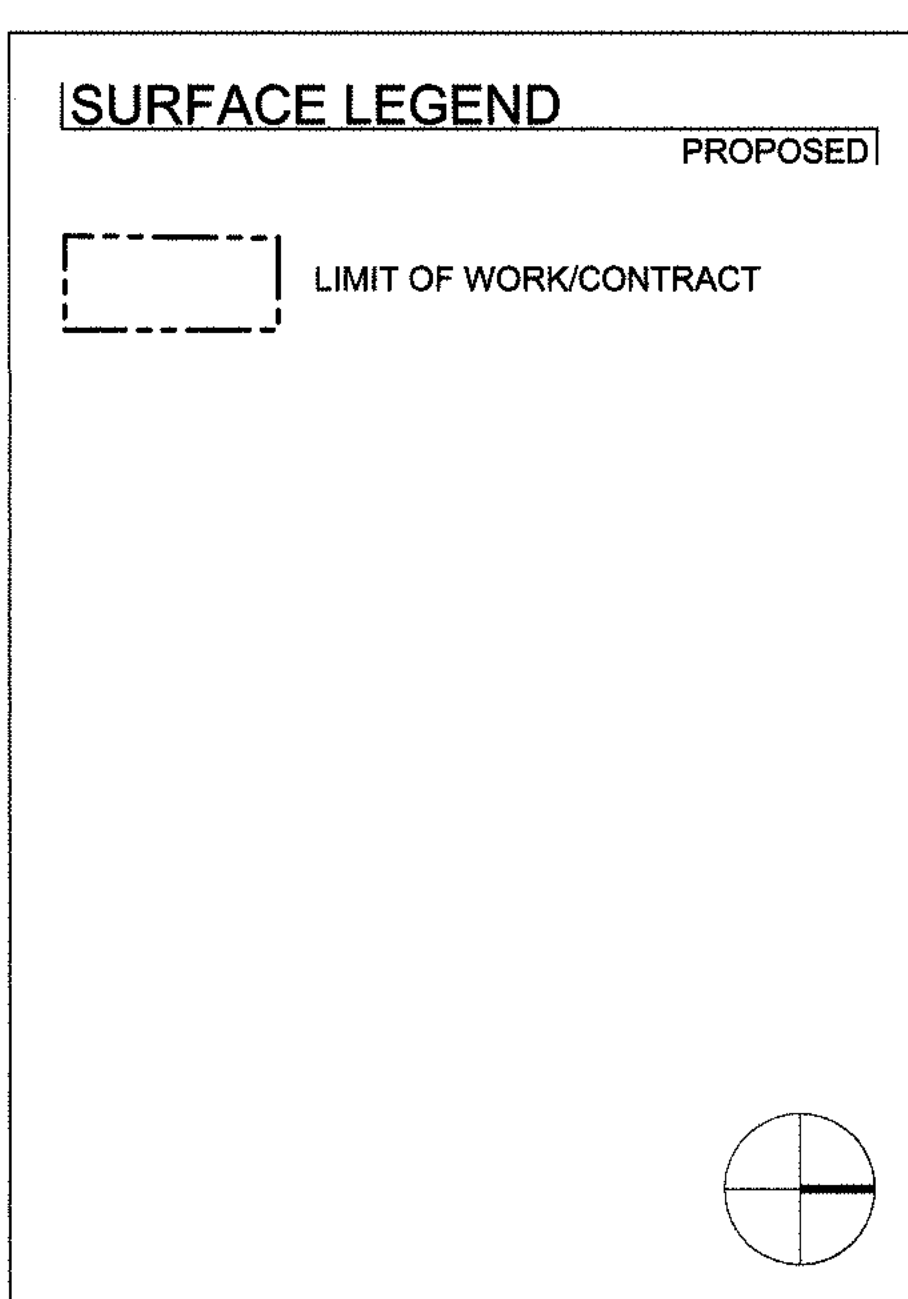
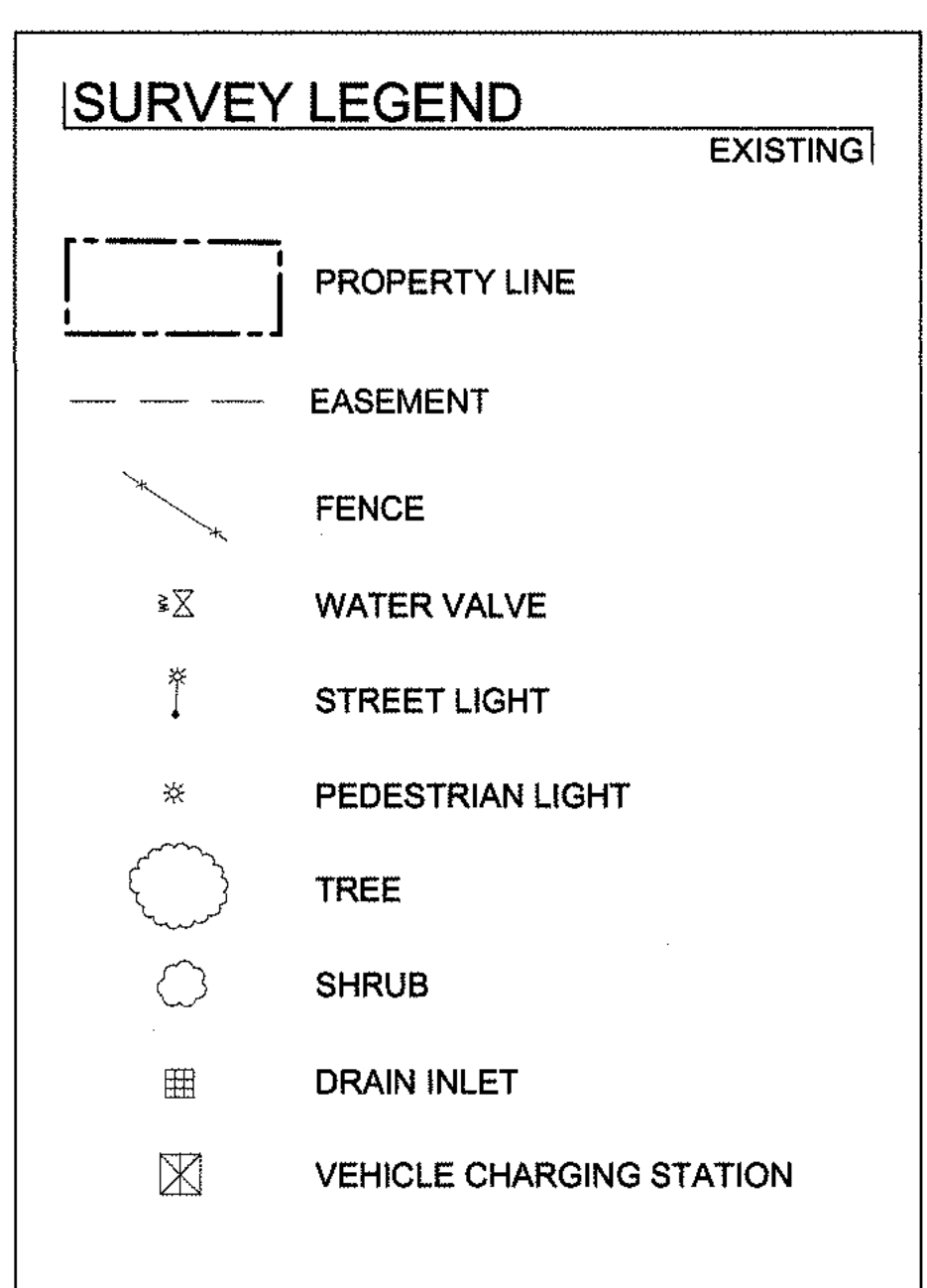
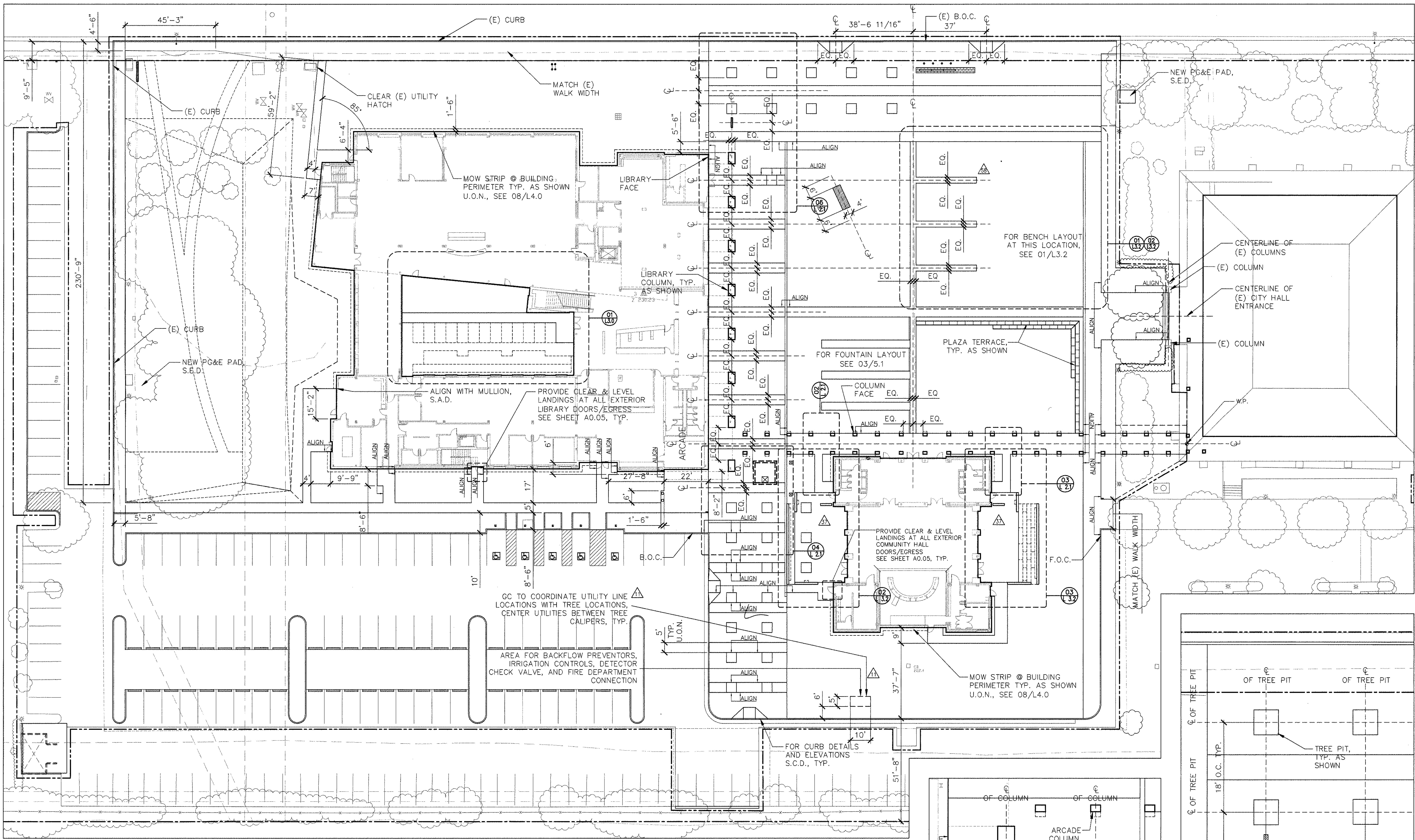
GRADING LEGEND

PROPOSED	
	GRADE BREAK
$S=XX$	SLOPE
HPXXX.XX	HIGH POINT
XXX.XX	SPOT ELEVATION
TW XXX.XX	TOP OF WALL ELEVATION
BW XXX.XX	BOTTOM OF WALL ELEVATION
TRXXX.XX	TRENCH DRAIN ELEVATION
R=XXX.XX	RIM ELEVATION

NOTES:
 SEE CIVIL DRAWINGS FOR SITE GRADING
 ALL ELEVATIONS SHOWN HERE ARE FINISH ELEVATIONS, U.O.N.

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2020 17th Street
San Francisco, CA 94103
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San Francisco, CA 94104
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370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

Revisions

1	2003.09.30	CC0009
2	2004.02.13	CC0035
3	2004.02.18	CC0032
4	2004.05.06	CC0056

11-29-04 Updated Contract Documents

Stamp
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Sheet 206
of

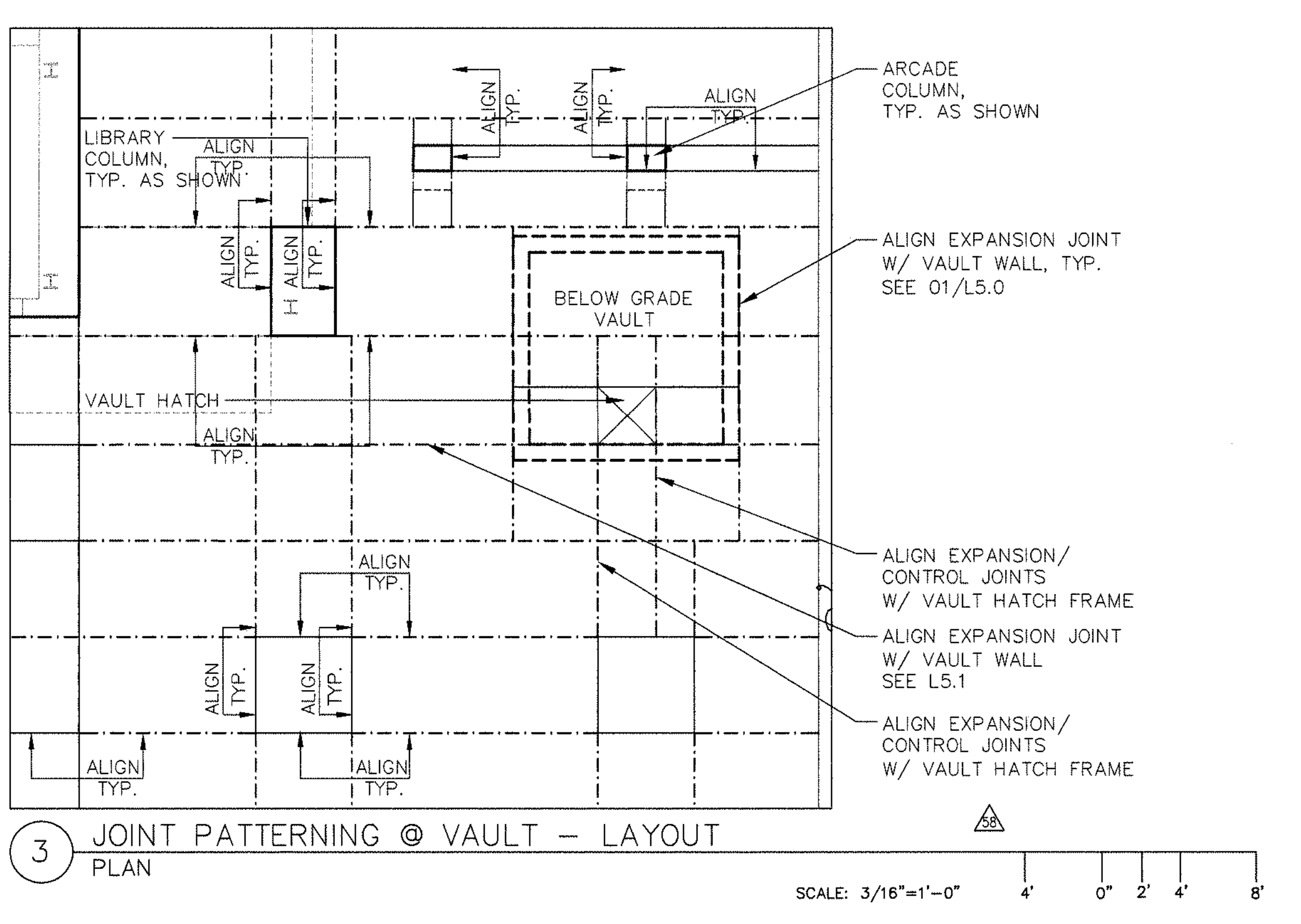
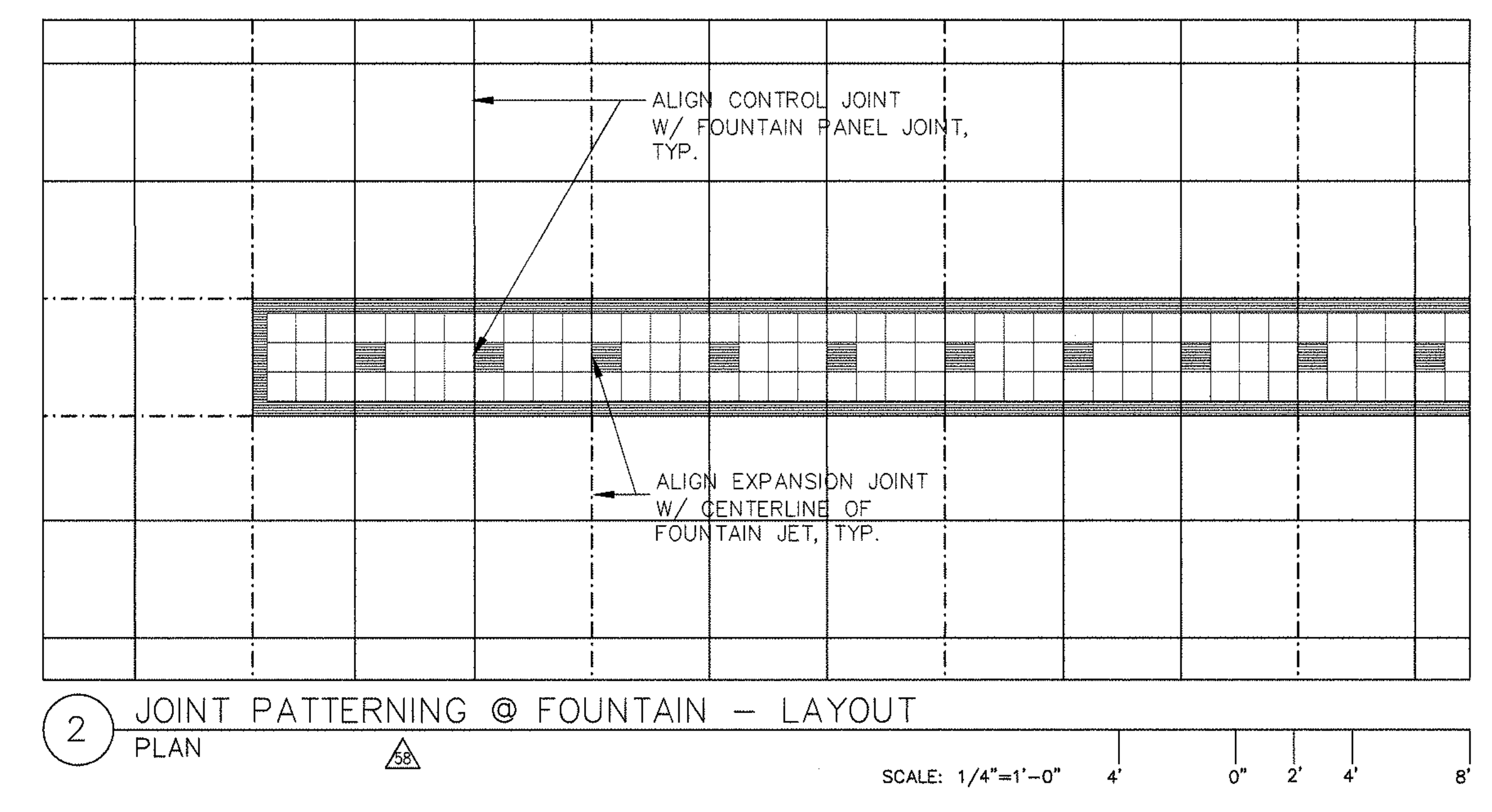
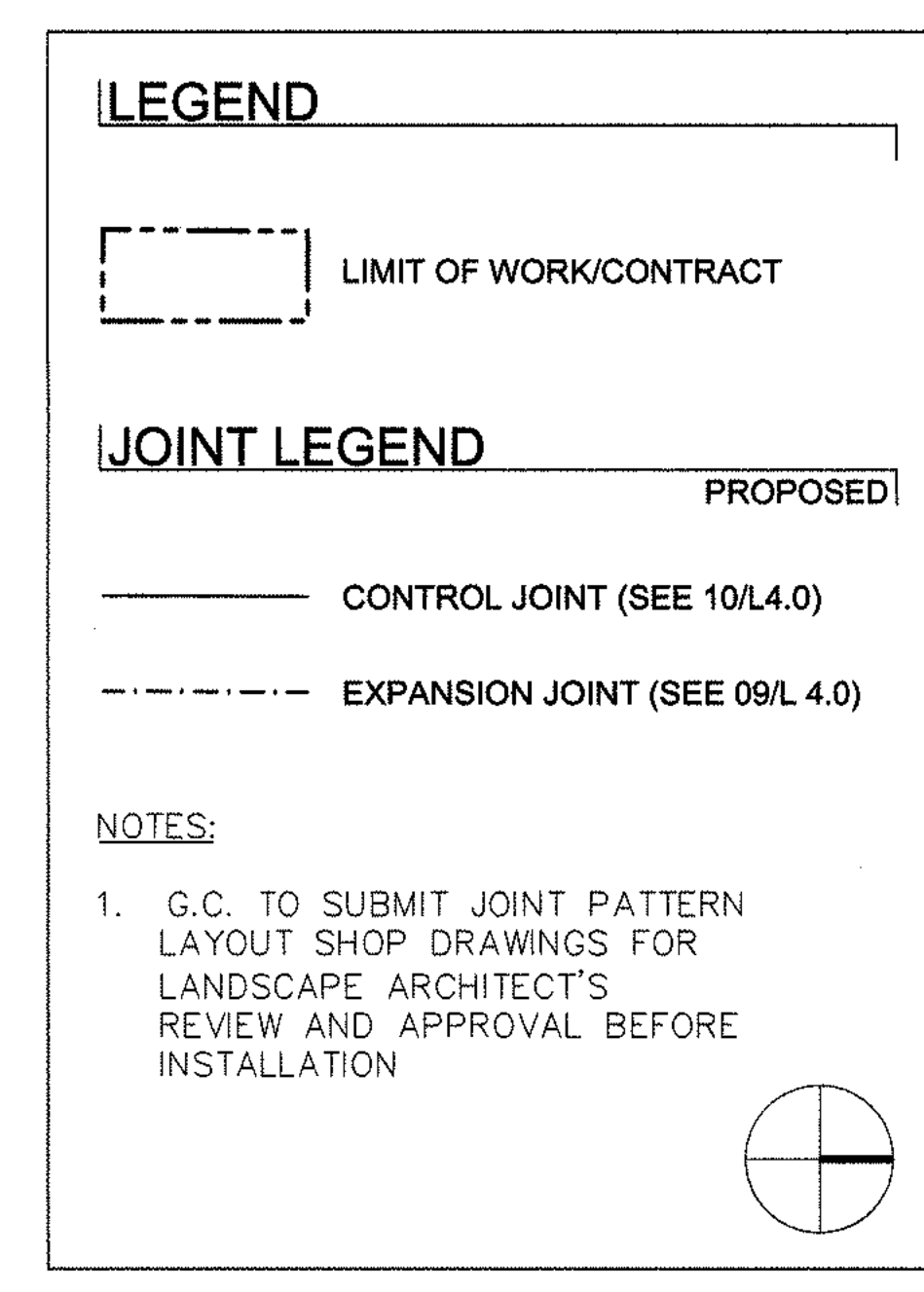
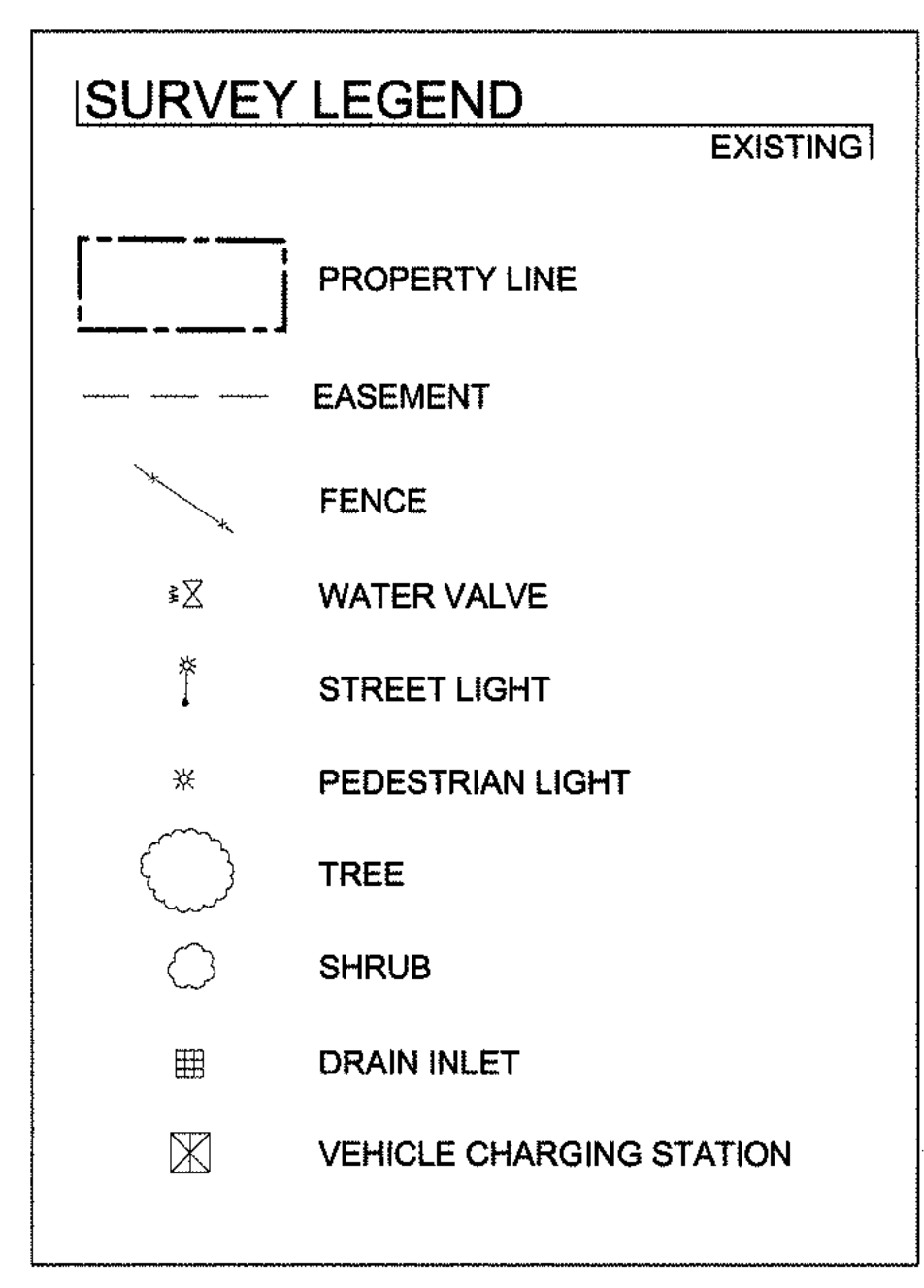
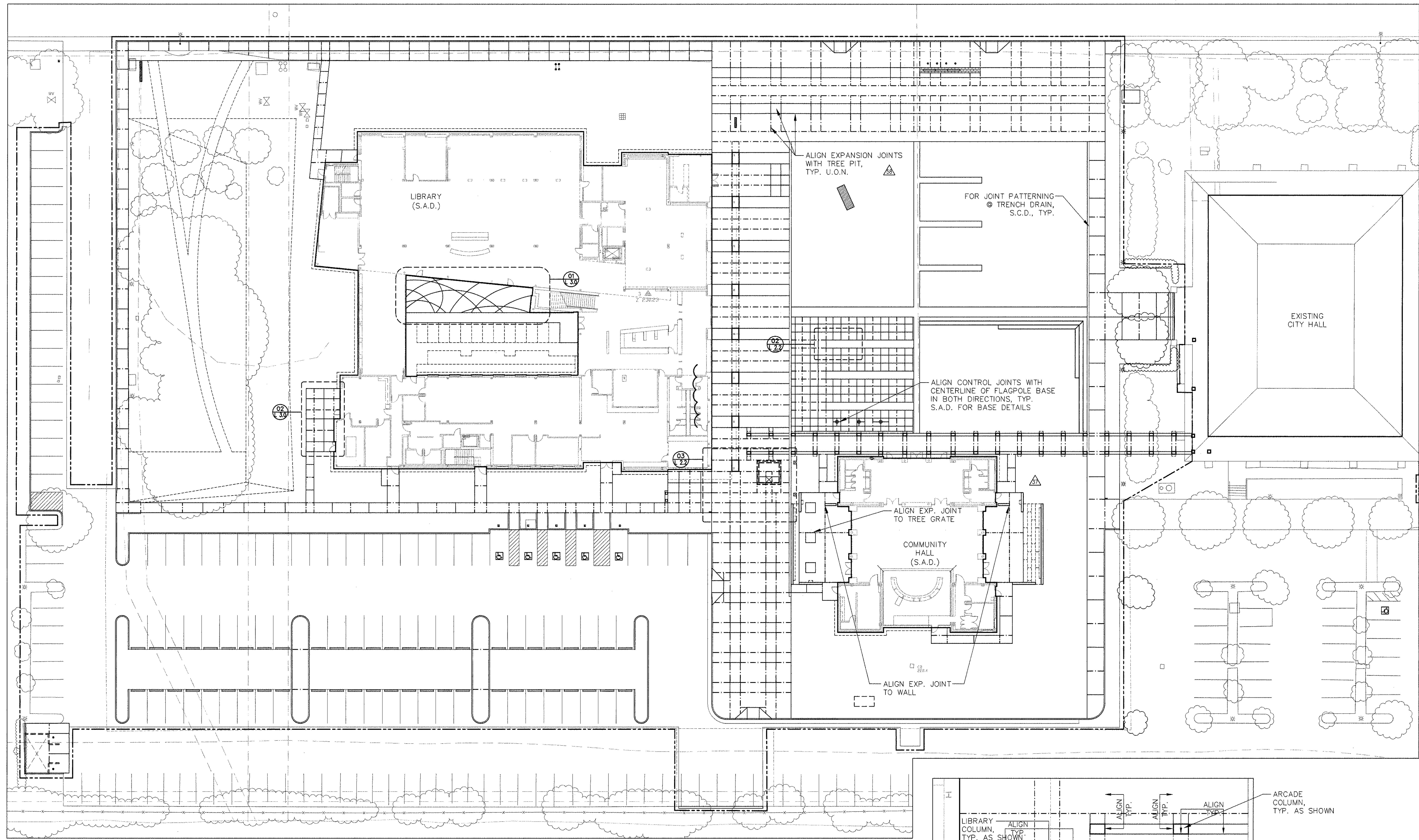
LANDSCAPE HORIZONTAL CONTROL PLAN
Scale: 1"=20'-0" Date: 2003.04.18
Drawn by: BJ Project number: 20114.00
Sheet number:

L2.1

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Revisions

2004.02.13	CC0035
2004.05.06	CC0056

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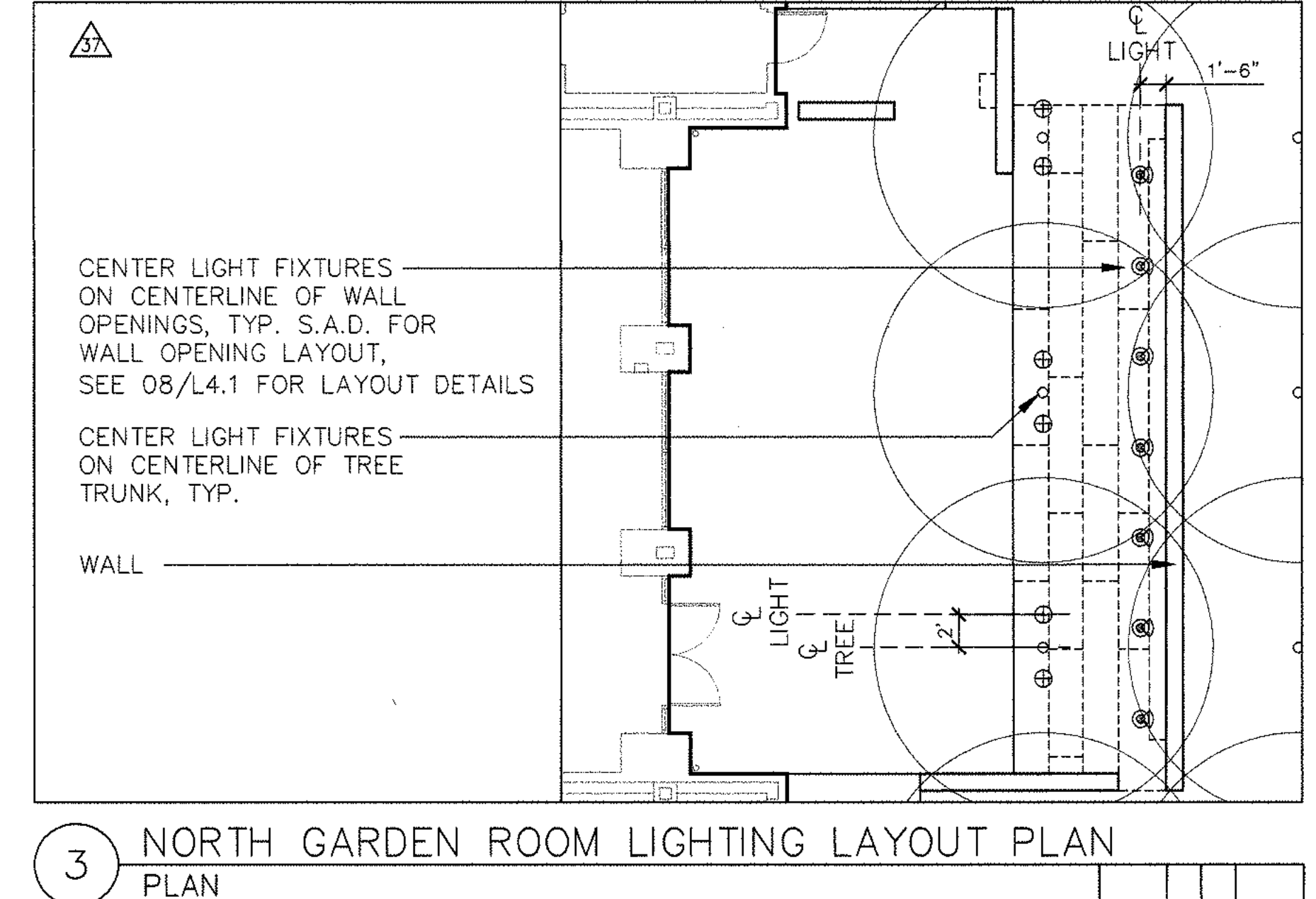
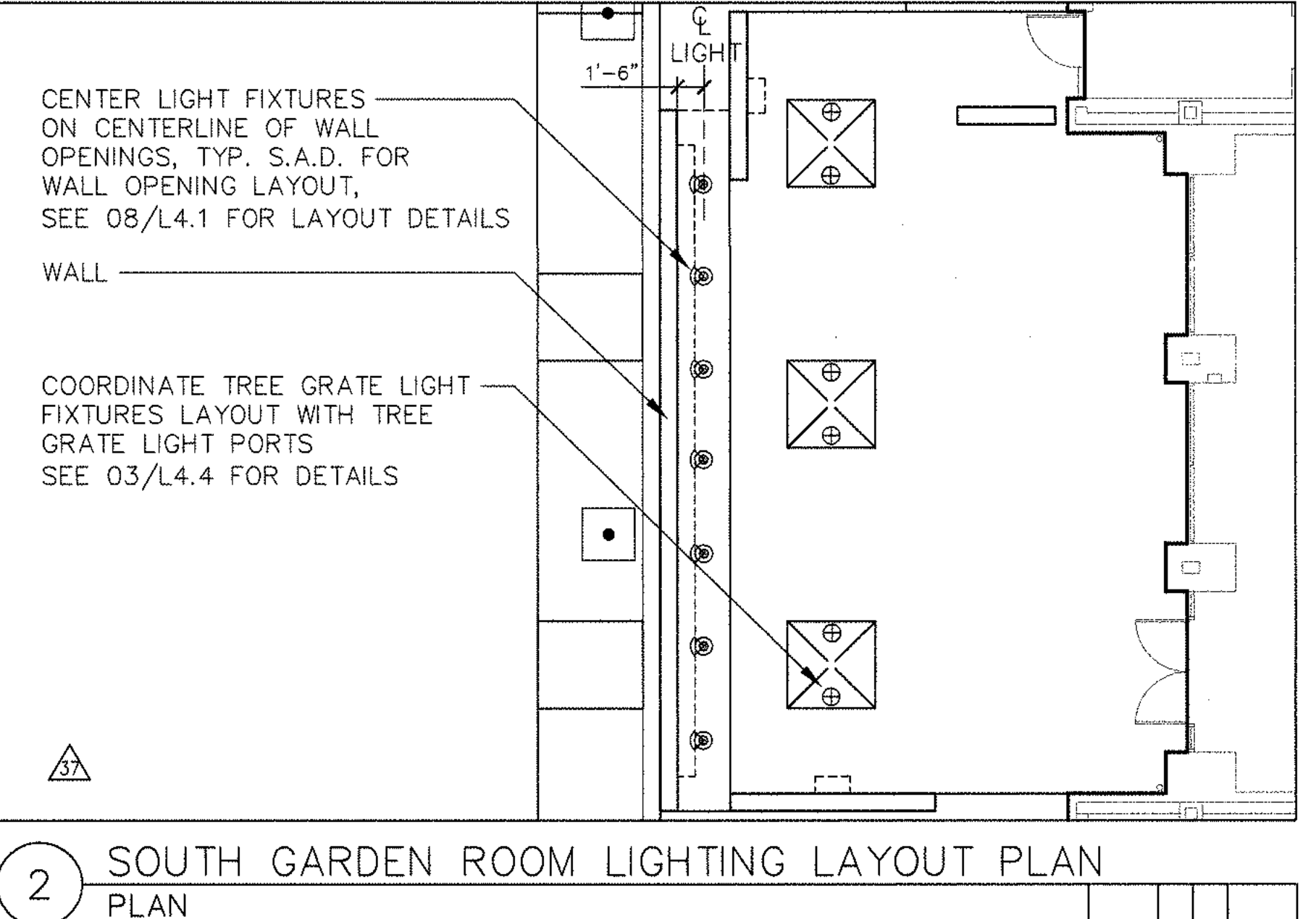
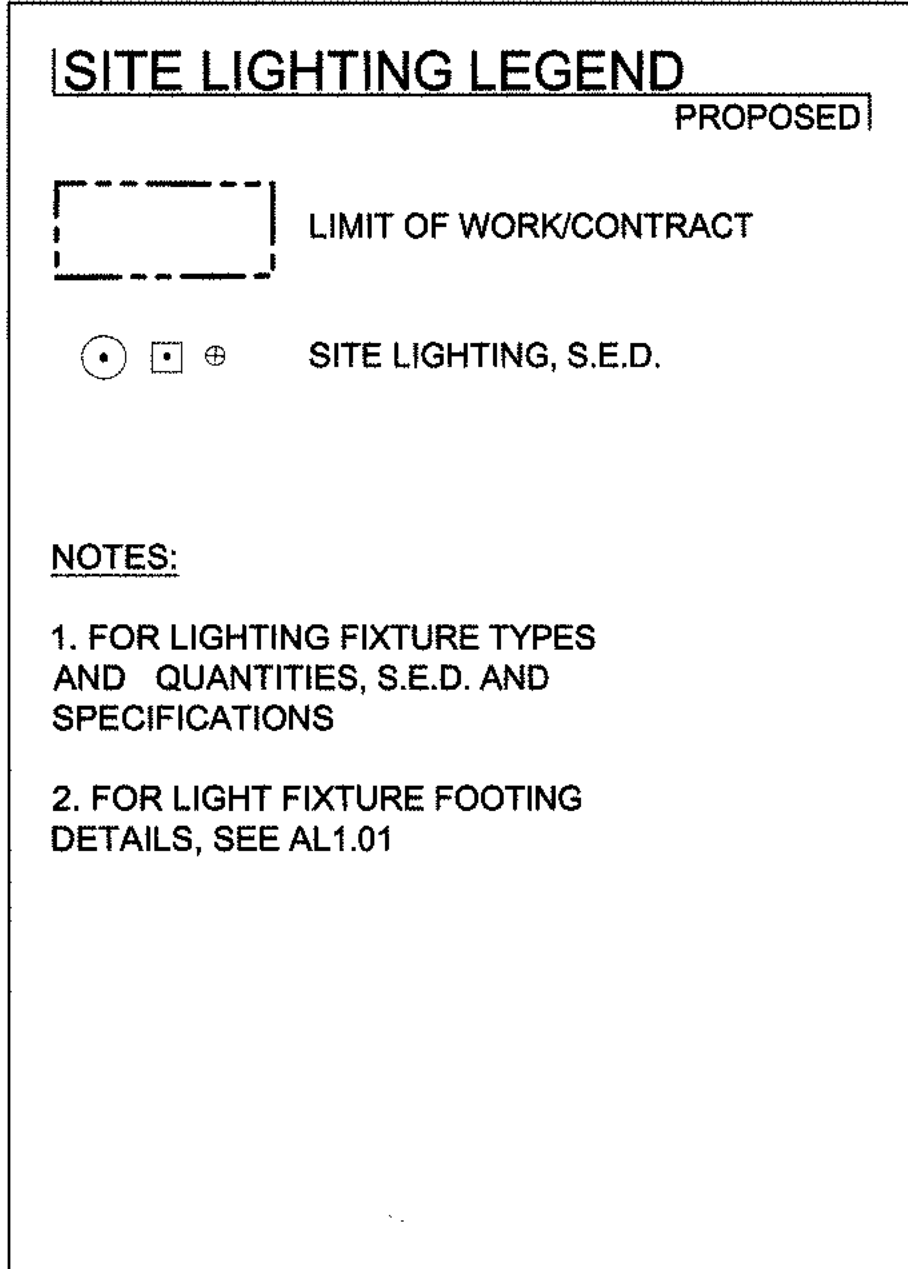
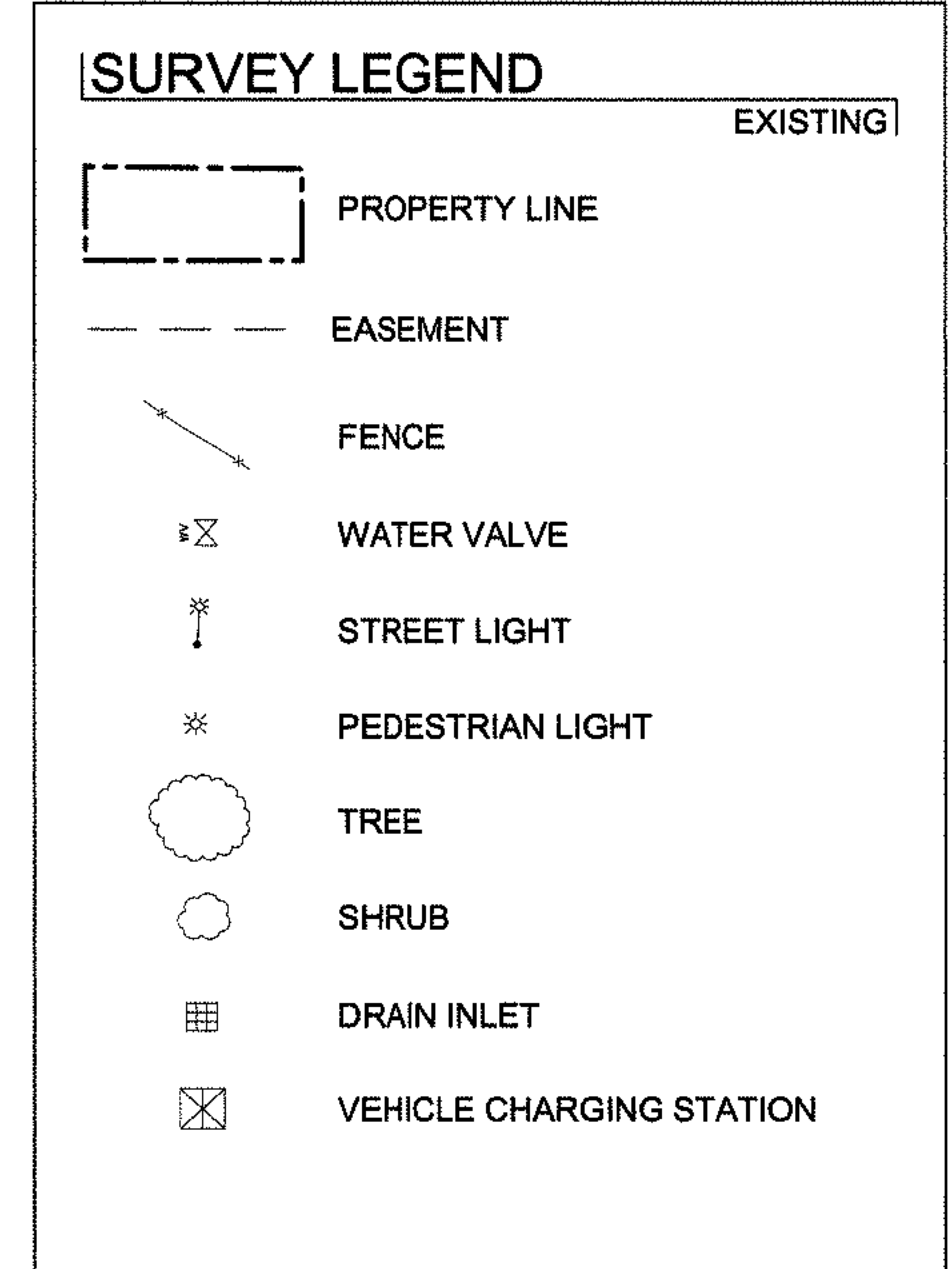
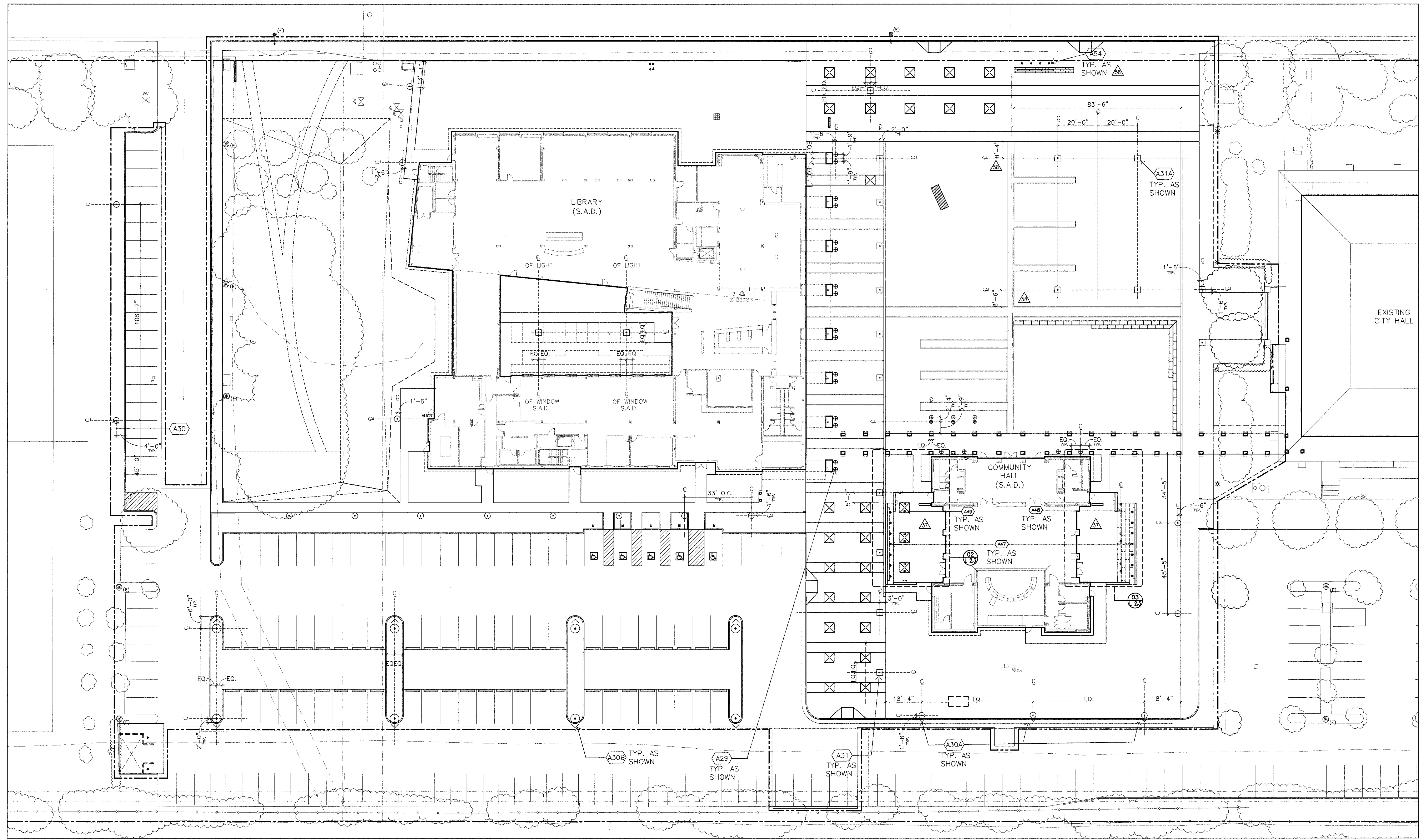
Sheet 2004

LANDSCAPE
 JOINT
 PATTERNING
 PLAN

Scale: 1"=20'-0" date: 2003.04.18
 Drawn by: BL project number: 20114.00
 Sheet number:

L2.2

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	2004.02.13	000035
	2004.05.06	000056

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 Contract Documents

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DATE

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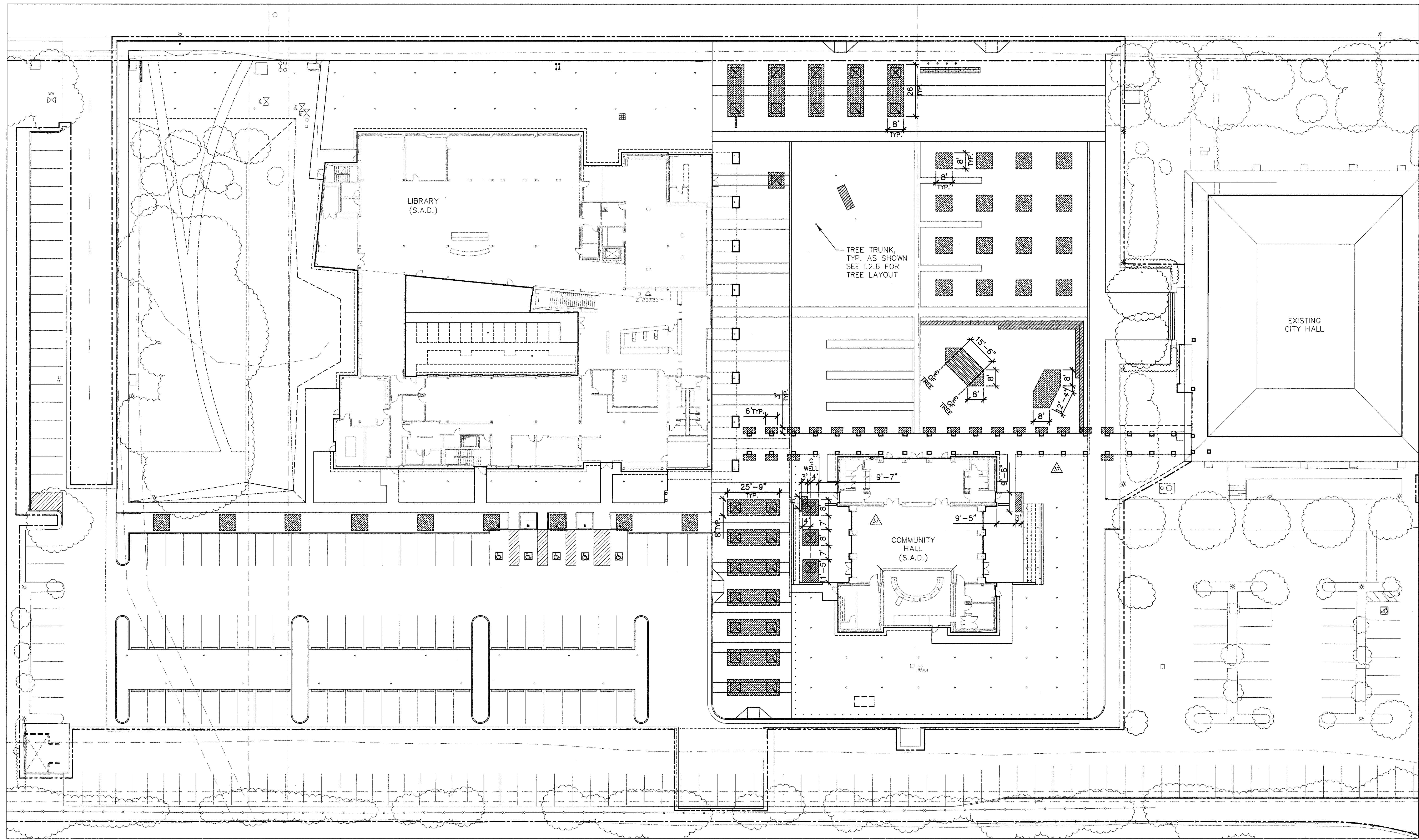
Sheet 256 of 47

LANDSCAPE
 SITE-LIGHTING
 LAYOUT
 PLAN

SCALE: 1"=20'-0"
 drawn by: BL
 project number: 2003.04.18
 sheet number: 20114.00

L2.3

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SURVEY LEGEND	
EXISTING	PROPOSED
	PROPERTY LINE
	EASEMENT
	FENCE
	WATER VALVE
	STREET LIGHT
	PEDESTRIAN LIGHT
	TREE
	SHRUB
	DRAIN INLET
	VEHICLE CHARGING STATION

SURFACE LEGEND	
EXISTING	PROPOSED
	LIMIT OF WORK/CONTRACT
	LIMIT OF STRUCTURAL SOIL, DEPTH VARIES, SEE L4.1, L4.2 TYP. AS SHOWN

NOTES:
 1. COORDINATE STRUCTURAL SOIL LAYOUT WITH LANDSCAPE PLANTING PLAN, L2.6

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Revisions
 2004.02.13
 CCC035

11-29-04 Updated Contract Documents

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 Sheet 256 of 47

LANDSCAPE STRUCTURAL SOIL PLAN

Scale: 1"=20'-0"
 Date: 2003.04.18
 Drawn by: BJ
 Project number: 20114.00
 Sheet number

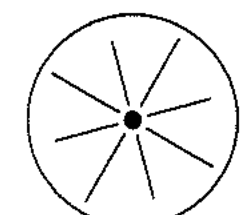
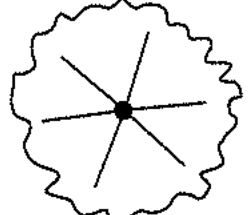
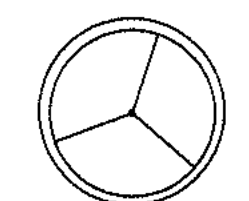
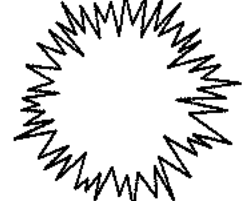
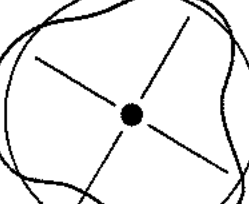


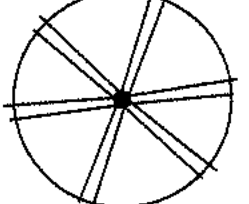
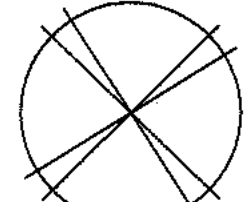
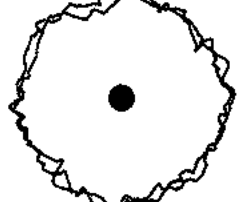
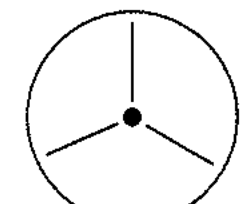
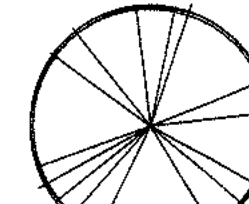
L2.4

Plant List

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREES: ALL TREES ARE OWNER FURNISHED, CONTRACTOR INSTALLED				
ACER MACROPHYLLUM	BIG LEAF MAPLE	36" BOX	VARIES, SEE L2.6	CALIF. NATIVE
BETULA NIGRA	RIVER BIRCH	36" BOX	VARIES, SEE L2.6	MULTI-STEM
CASUARINA CUNNINGHAMIANA	RIVER SHE-OAK	36" BOX	VARIES, SEE L2.6	SPECIMEN
CINNAMOMUM CAMPHORA	CAMPHOR	36" BOX	VARIES, SEE L2.6	
GLEDITSIA TRIACANTHOS 'INERMIS'	HONEY LOCUST - SHADEMASTER	36" BOX	VARIES, SEE L2.6	CLEAR BRANCHING UP TO 6'
OLEA EUROPAEA	EUROPEAN OLIVE	36" BOX	VARIES, SEE L2.6	
PISTACIA CHINENSIS	CHINESE PISTACHE	36" BOX	VARIES, SEE L2.6	CLEAR BRANCHING UP TO 6'
PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	36" BOX	VARIES, SEE L2.6	CALIF. NATIVE
PRUNUS SERRULATA 'KWANZAN'	JAPANESE FLOWERING CHERRY	36" BOX	VARIES, SEE L2.6	
PYRUS CALLERYANA 'ARISTOCRAT'	ORNAMENTAL PEAR	36" BOX	VARIES, SEE L2.6	
QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	36" BOX	VARIES, SEE L2.6	CALIF. NATIVE
ZELKOVA SERRATA 'HALKA'	SAWLEAF ZELKOVA	36" BOX	VARIES, SEE L2.6	SPECIMEN
SHRUBS				
PHOTINIA ROSACEAE 'FRASER'	PHOTINIA	10 GALLON	4' O.C., TYP.	
PERENNIALS / GROUNDCOVERS				
IRIS INNOMINATA	DEL NORTE COUNTY IRIS	5 GALLON	2' O.C., TYP.	CALIF. NATIVE
EQUISETUM HYEMALE	STANDARD HORSETAIL	5 GALLON	2' O.C., TYP.	CALIF. NATIVE
LAMPRANTHUS AURANTIACUS	ORANGE ICE PLANT	1 GALLON	1 PER 2 SQ'	COASTAL
CEANOTHUS GLORIOSUS 'HEART'S DESIRE'	CALIFORNIA LILAC	1 GALLON	1 PER 1 SQ'	CALIF. NATIVE
MIMULUS CARDINALIS	SCARLET MONKEY FLOWER	1 GALLON	1 PER 2 SQ'	CALIF. NATIVE
CAREX TUMULICOLA	BERKELEY SEDGE	1 GALLON	1 PER 2 SQ'	CALIF. NATIVE
IRIS DOUGLASIANA	PACIFIC COAST IRIS	1 GALLON	1 PER 3 SQ'	CALIF. NATIVE
JUNCUS PATENS 'CARMAN'S GRAY'	CALIFORNIA GRAY RUSH	1 GALLON	1 PER 2 SQ'	CALIF. NATIVE
SISYRINCHIUM BELLUM 'ROCKY POINT'	BLUE EYED GRASS	1 GALLON	1 PER 1 SQ'	CALIF. NATIVE
VINES				
BOUGAINVILLEA NYCTAGINACEAE	BOUGAINVILLEA 'SAN DIEGO RED'	5 GALLON	ALIGN VINE TO CENTERLINE OF VINE POCKET AND ARCADE COLUMN, TYP.	BRIGHT RED BLOSSOMS

Plant / Symbol Legend

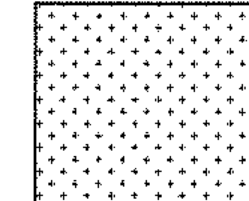
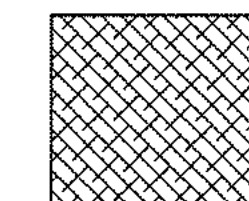
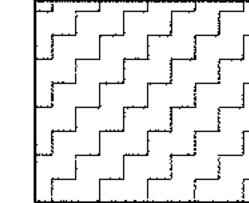
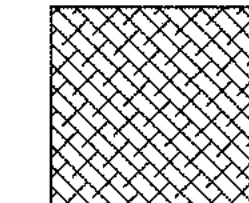
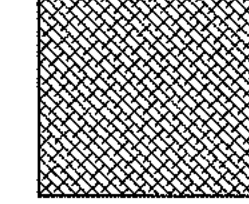
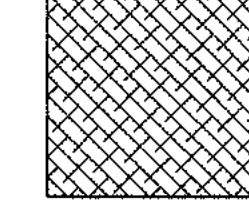
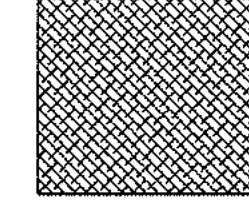
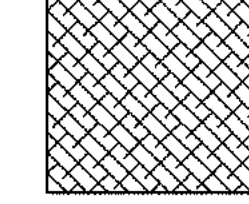
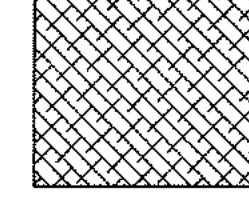
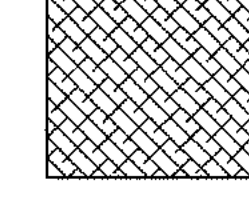
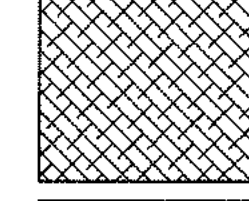
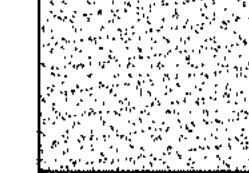
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	ACER MACROPHYLLUM BIG LEAF MAPLE		PLATANUS RACEMOSA CALIFORNIA SYCAMORE
	CASUARINA CUNNINGHAMIANA RIVER SHE-OAK		PRUNUS SERRULATA JAPANESE FLOWERING CHERRY
	CINNAMOMUM CAMPHORA CAMPHOR		PYRUS CALLERYANA ORNAMENTAL PEAR
	GLEDITSIA TRICANTHOS HONEY LOCUST		QUERCUS CHRYSOLEPIS CANYON LIVE OAK
	OLEA EUROPAEA EUROPEAN OLIVE		ZELKOVA SERRATA SAWLEAF ZELKOVA
	PISTACIA CHINENSIS CHINESE PISTACHE		BETULA NIGRA RIVER BIRCH

SHRUBS

	PHOTINIA ROSACEAE 'FRASER'
	PHOTINIA

SURFACE PLANTINGS

	H GRASSY SWALE SWALE GRASS MIX, SEE SPEC.		O HIGH PERENNIAL MIMULUS CARDINALIS
	I GROUNDCOVER IN-FILL SPECIES TO MATCH (E)		P MEDIUM PERENNIAL CAREX TUMULICOLA
	J LOW PERENNIALS TYPE 1 CEANOTHUS GLORIOSUS 'HEART'S DESIRE'		Q HIGH PERENNIAL IRIS DOUGLASIANA
	K LOW PERENNIALS TYPE 2 LAMPRANTHUS AURANTIACUS		R HIGH PERENNIAL JUNCUS PATENS
	L HIGH PERENNIALS TYPE 1 IRIS INNOMINATA		S LOW PERENNIAL SISYRINCHIUM BELLUM
	M LOW PERENNIALS TYPE 2 EQUISETUM HYEMALE		
	N SOD LAWN TYPICAL LAWN MIX, SEE SPEC.		

VINES

	BOUGAINVILLEA NYCTAGINACEAE BOUGAINVILLEA
---------------------------------------------------------------------------------------	----------------------------------------------

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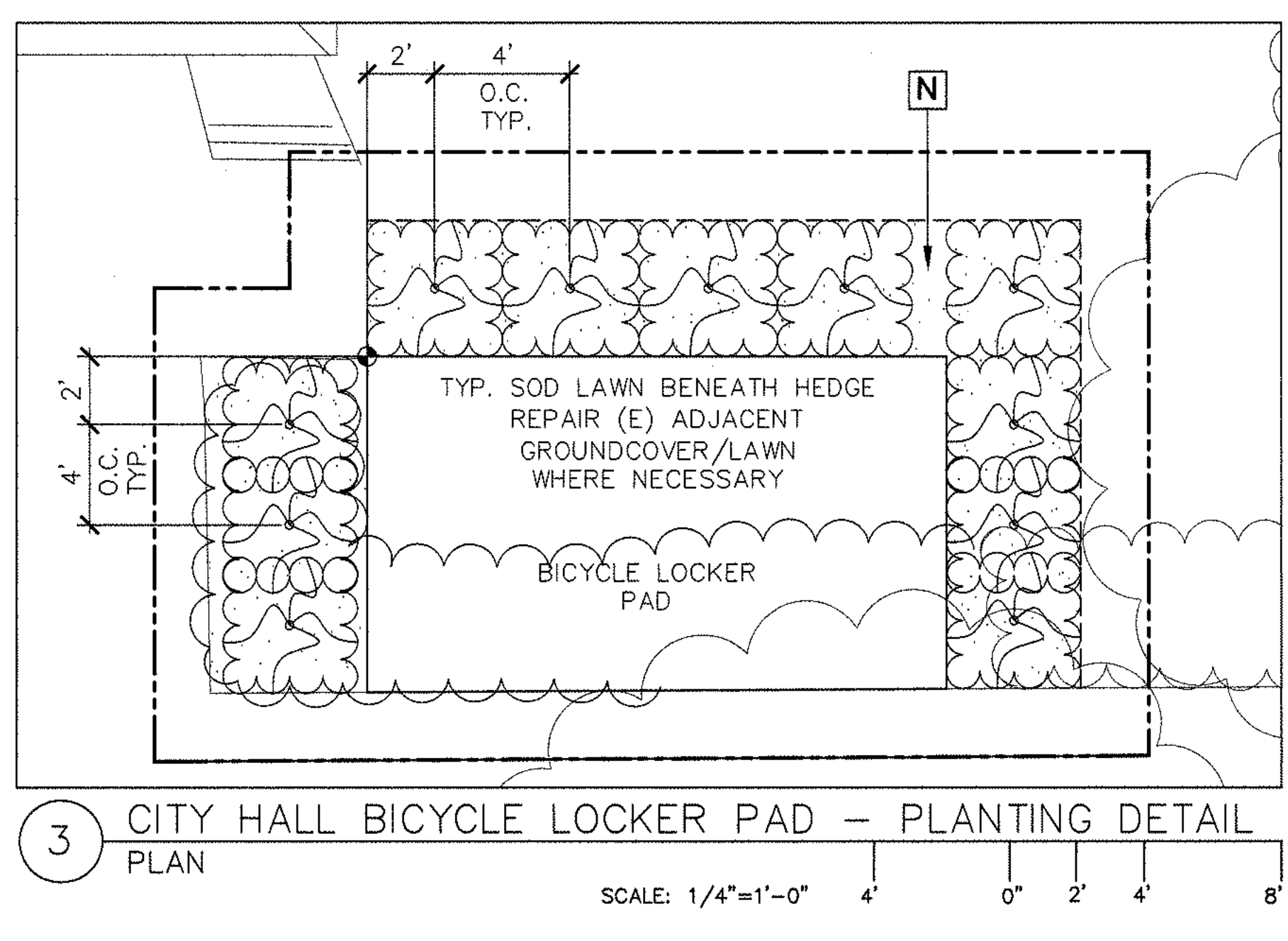
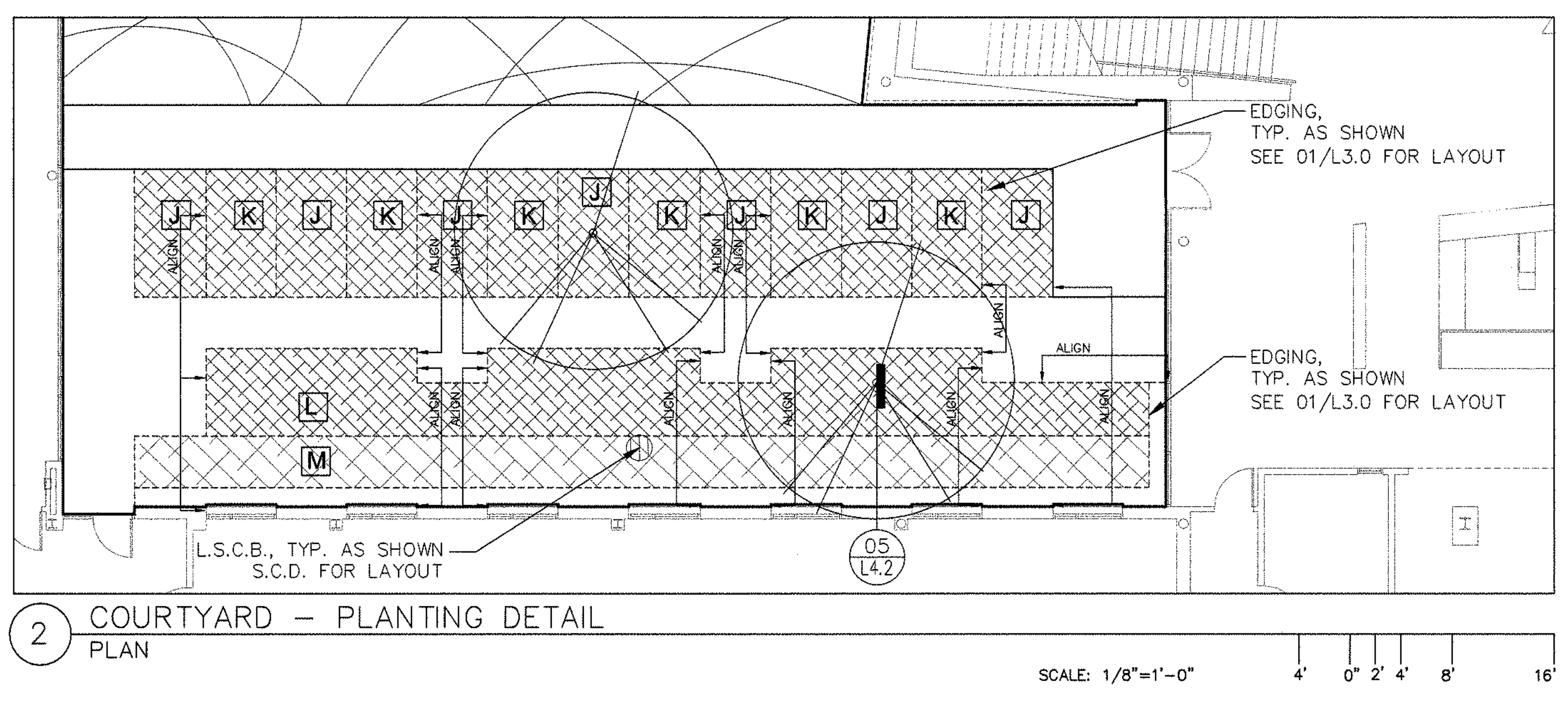
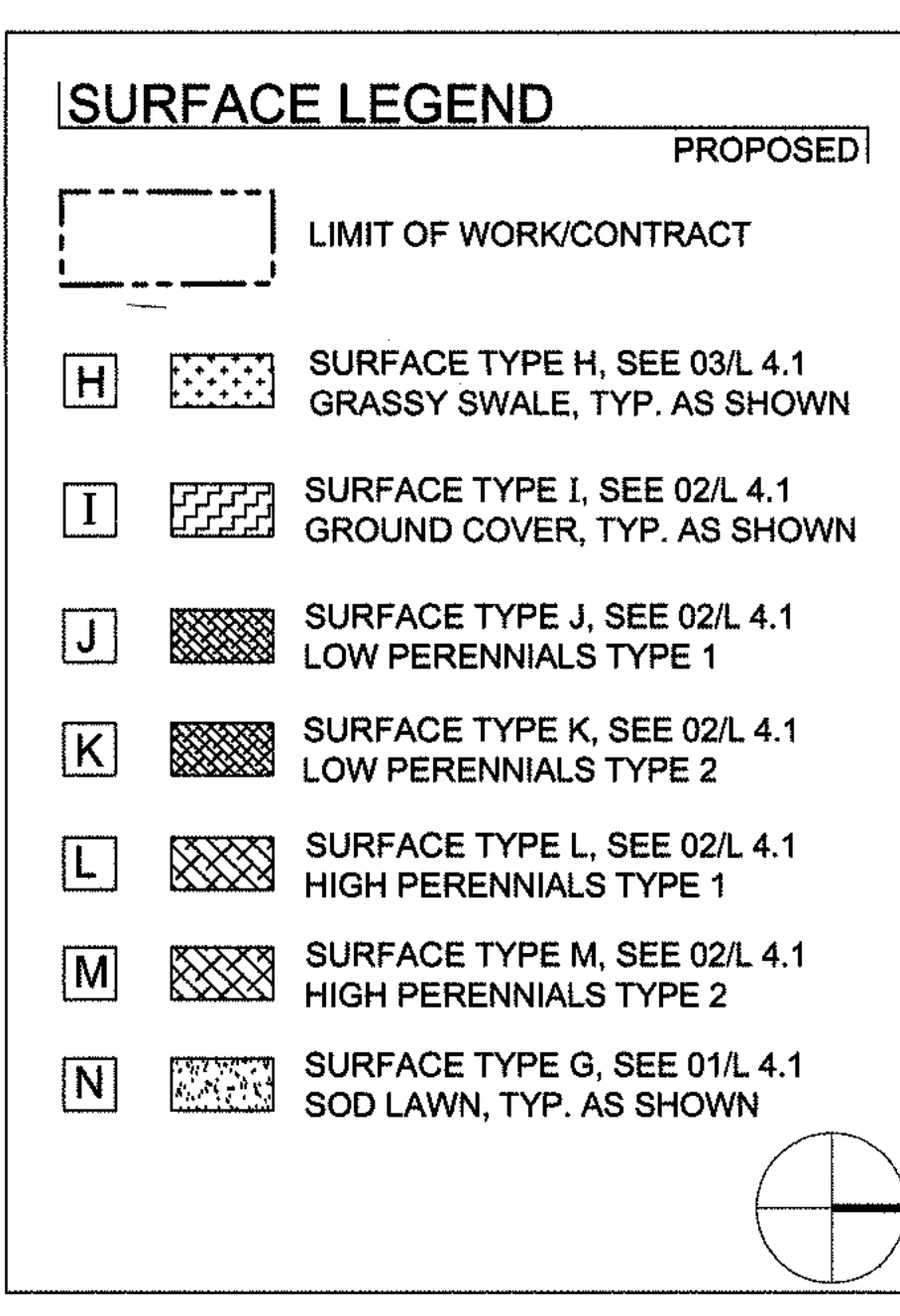
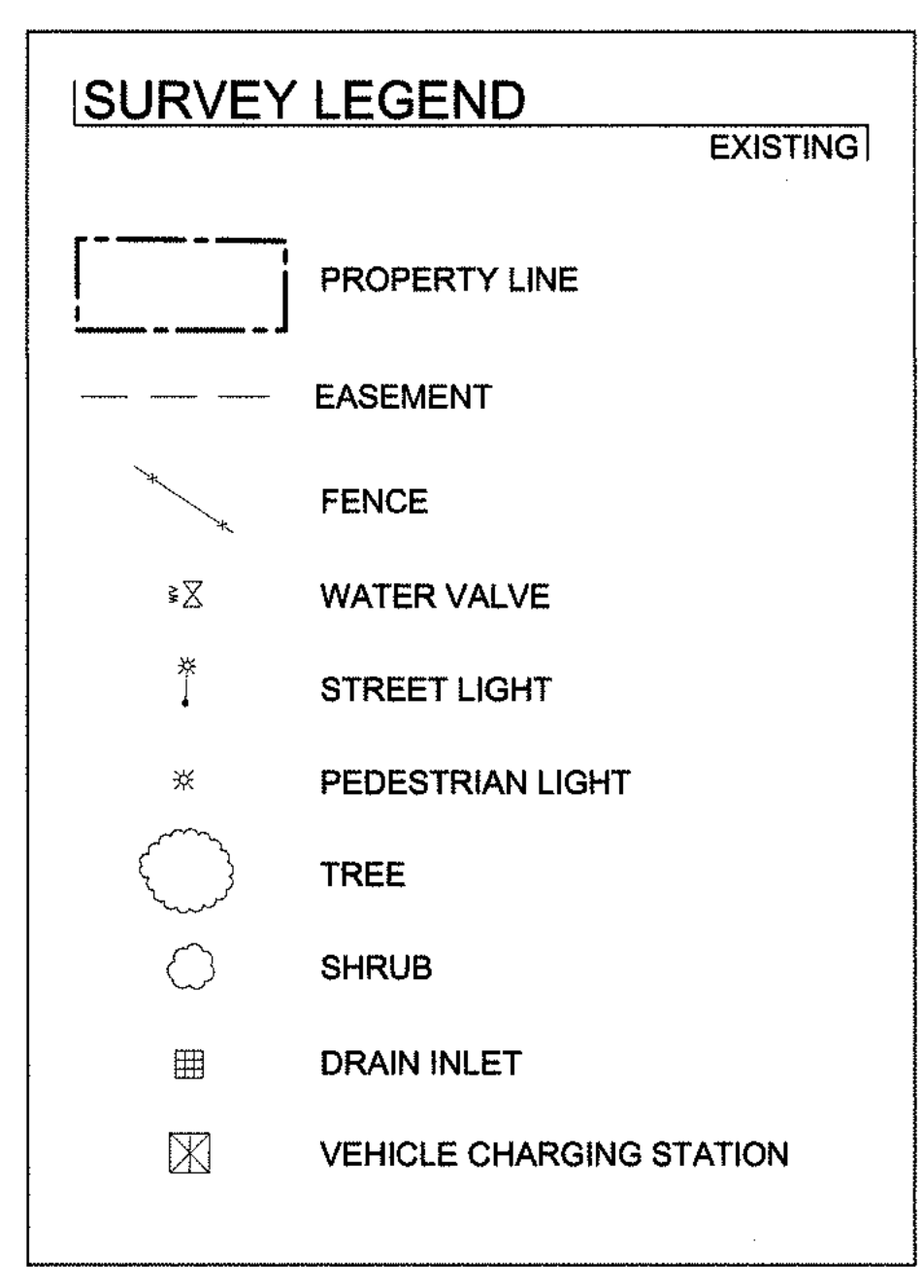
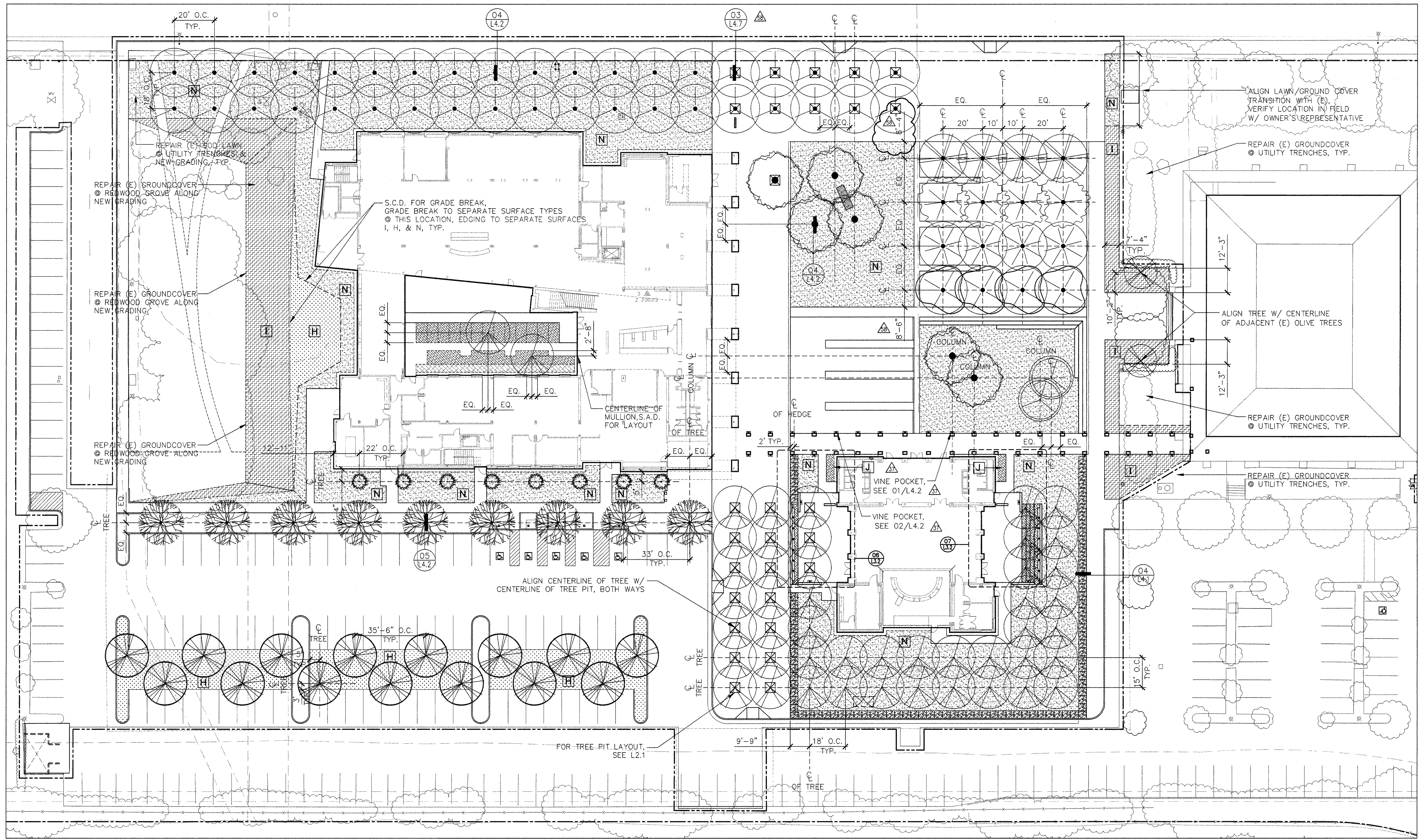
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LANDSCAPE PLANTING LIST

scale: 2003.04.18
 drawn by: BU project number: 20114.00
 sheet number:

L2.5

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 Associates
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 San Francisco, CA 94103
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LANDSCAPE
 PLANTING
 PLAN

Scale: 1"=20'-0" date: 2003.04.18
 drawn by: BL project number: 20114.00
 sheet number

L2.6

SURVEY LEGEND

- PROPERTY LINE
- EASEMENT
- FENCE
- WATER VALVE
- STREET LIGHT
- PEDESTRIAN LIGHT
- TREE
- SHRUB
- DRAIN INLET
- VEHICLE CHARGING STATION

SURFACE LEGEND

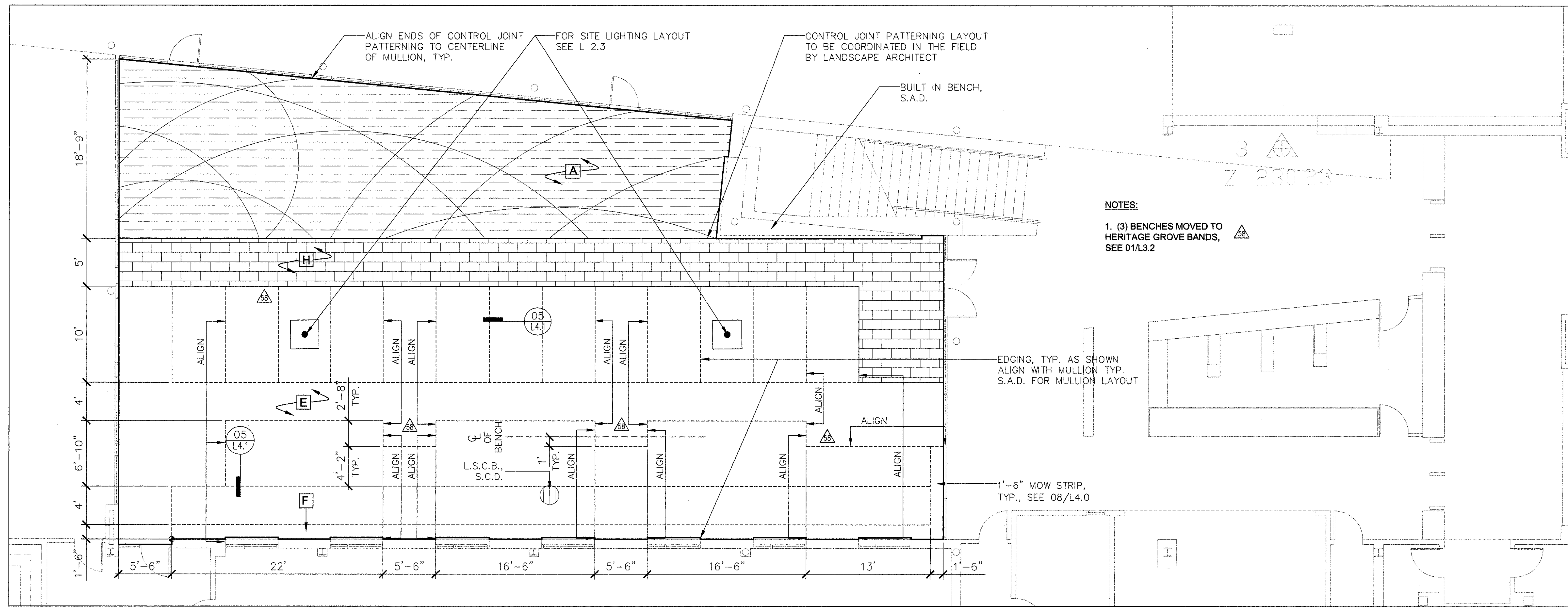
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- TYPE B CONCRETE WALK, SEE 05/L 4.0
- TYPE C PRE-CAST CONCRETE WALK, SEE 09/L 4.0
- TYPE E CRUSHED STONE, SEE 01/L 4.0
- TYPE F CRUSHED STONE, SEE 08/L 4.0
- TYPE G ASPHALT PAVING, S.C.D.
- TYPE H STONE, SEE L2.01 FOR DETAILS AND NOTES

FURNITURE LEGEND

- BENCH TYPE A, SEE L 4.3
- BENCH TYPE B, SEE L 4.3
- TRASH RECEPTACLE, SEE L 4.4
- RECYCLING RECEPTACLE, SEE L 4.4
- CONC. WHEEL STOP, S.C.D.
- BICYCLE RACK, SEE L 4.3
- 1 BICYCLE LOCKER, SEE SPEC.
- 2 BICYCLE LOCKER, SEE SPEC.
- 2 BICYCLE LOCKER, FOR 3-WHEEL BICYCLE, SEE SPEC.
- FLAGPOLE, (S.A.D. FOR DETAILS)
- BOLLARD, (S.C.D. FOR DETAILS)
- FOUNTAIN, SEE L 5.0
- SITE LIGHTING (SEE LIGHTING LAYOUT PLAN, L 2.3)

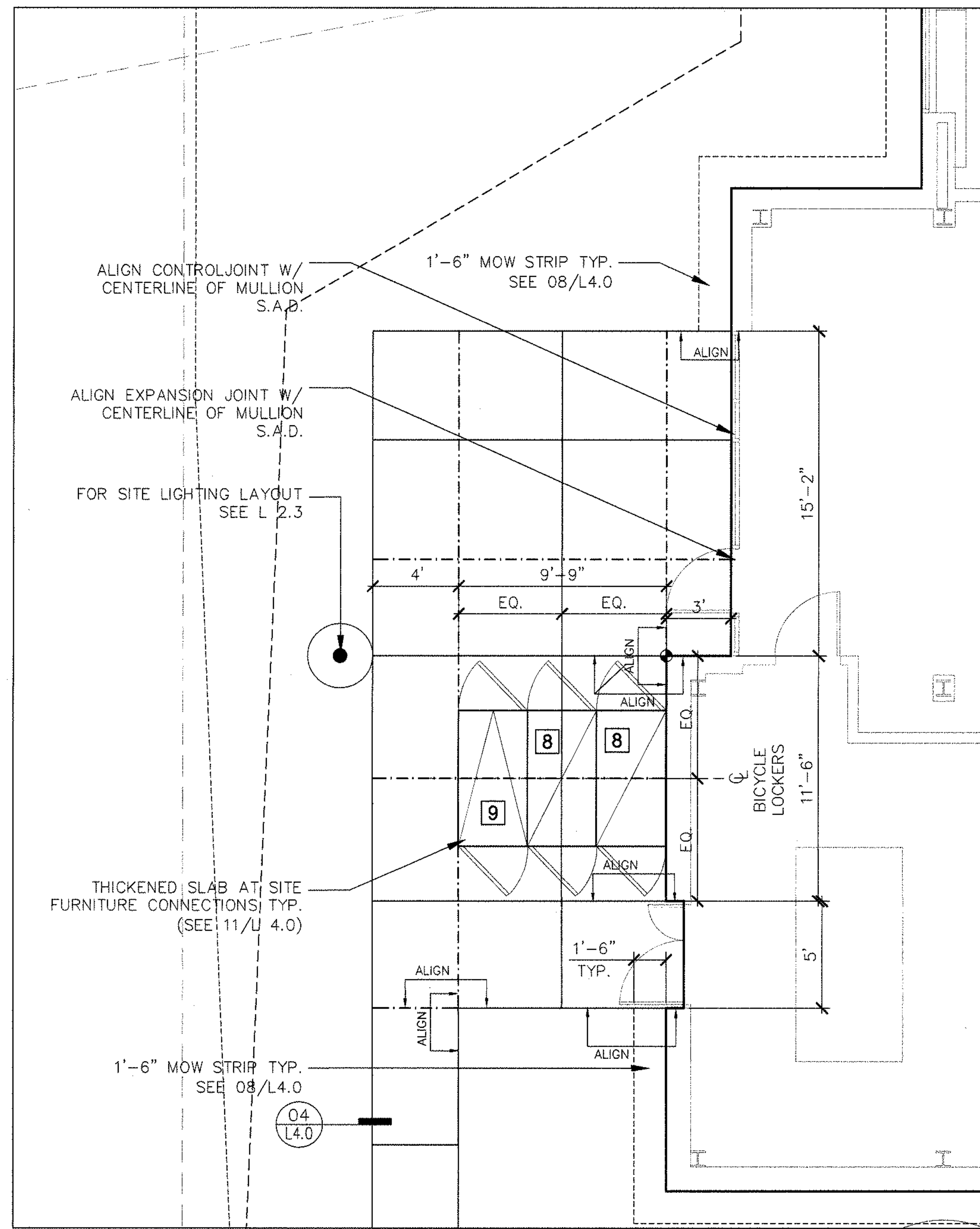
NOTES:

1. FOR LIGHTING FIXTURE TYPES AND QUANTITIES, S.E.D. AND SPECIFICATIONS
2. G.C. TO SUBMIT JOINT PATTERN LAYOUT SHOP DRAWINGS FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL BEFORE INSTALLATION



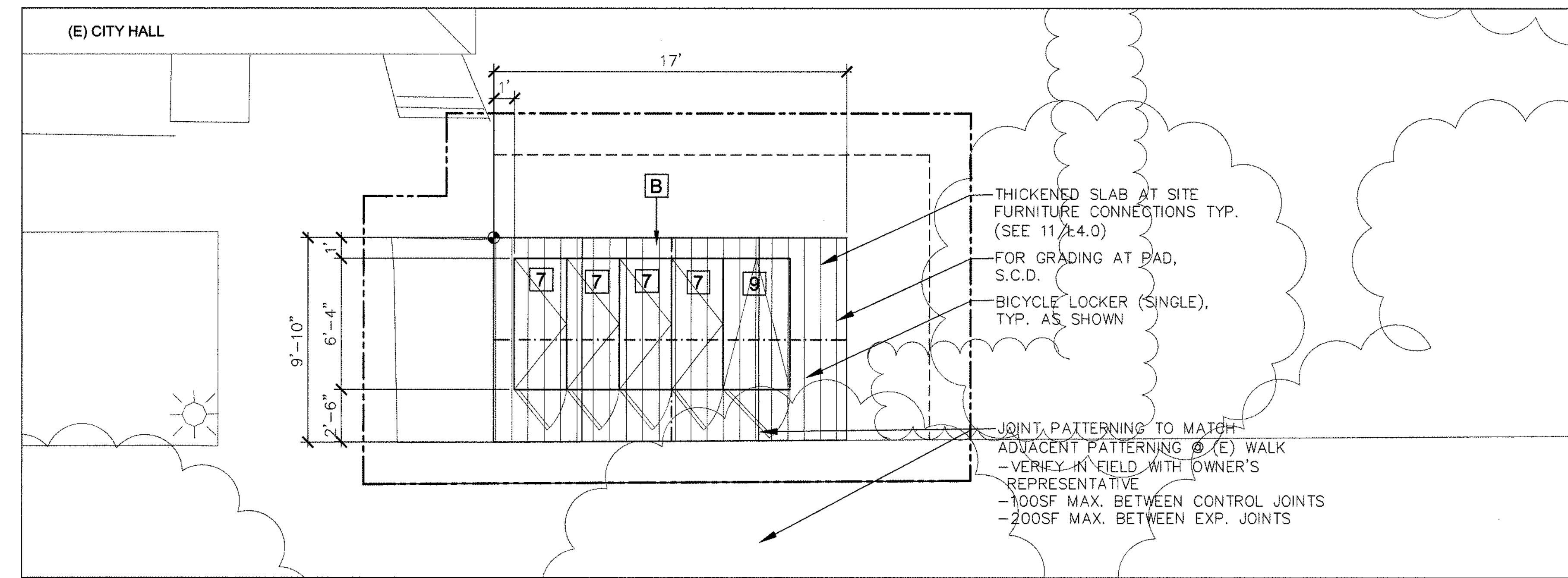
1 LIBRARY COURTYARD - MATERIALS & LAYOUT PLAN

SCALE: 3/16"=1'-0"



2 SOUTH BICYCLE LOCKER/ LIBRARY PATIO - LAYOUT PLAN

SCALE: 1/4"=1'-0"



3 NORTH BICYCLE LOCKER - MATERIALS & LAYOUT PLAN

SCALE: 1/4"=1'-0"

NOTES:

1. (3) BENCHES MOVED TO HERITAGE GROVE BANDS, SEE 01/L3.2

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 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F

Hargreaves Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
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 180 Pine Street
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LANDSCAPE
 DETAIL-PLAN-1
 Scale VARIES Date 2003.04.18
 Drawn by BJ Project number 20114.00
 Sheet number
L3.0

SURVEY LEGEND

- PROPERTY LINE
- EASEMENT
- FENCE
- WATER VALVE
- STREET LIGHT
- PEDESTRIAN LIGHT
- TREE
- SHRUB
- DRAIN INLET
- VEHICLE CHARGING STATION

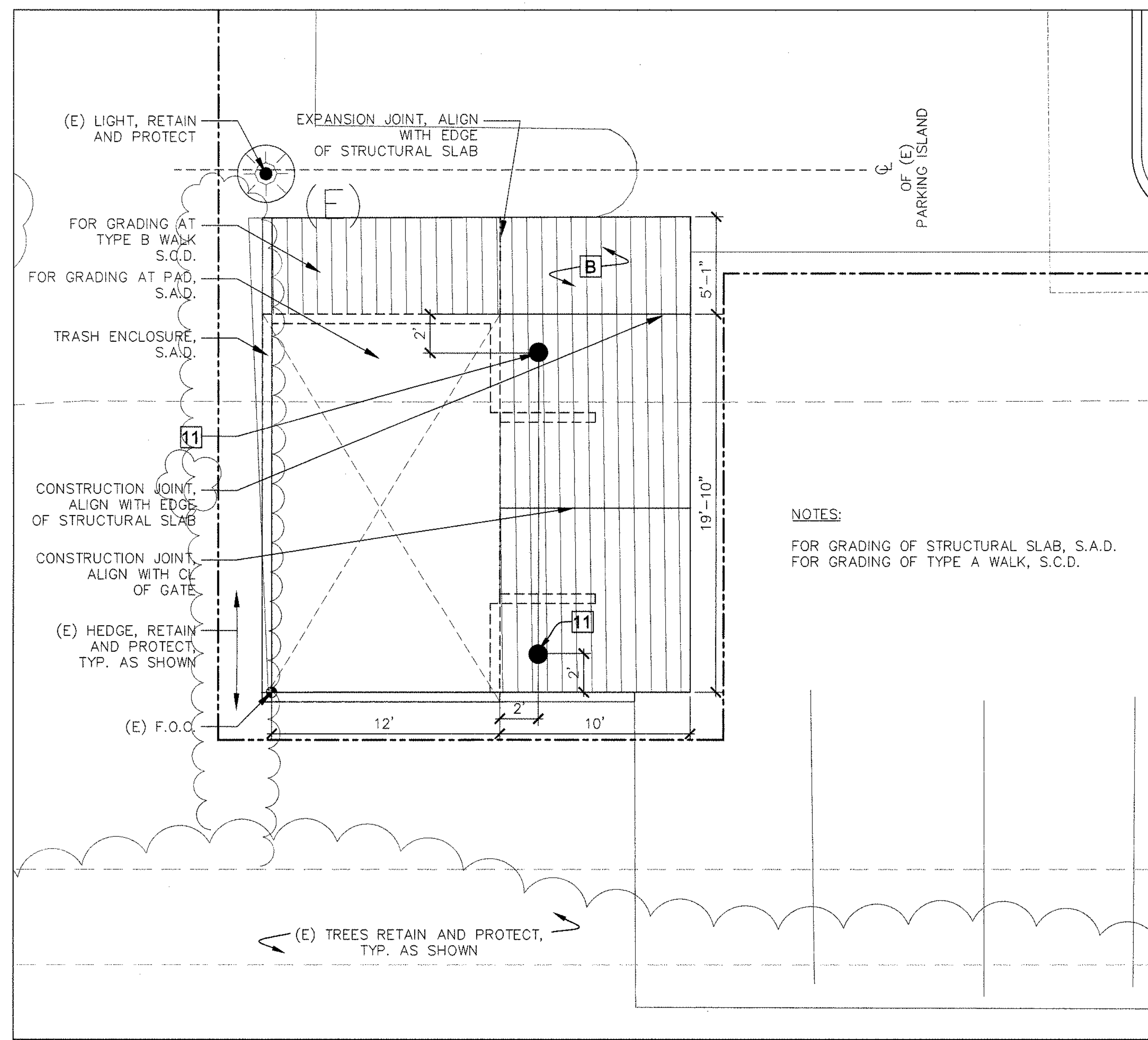
SURFACE LEGEND

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- TYPE B CONCRETE WALK, SEE 05/L 4.0
- TYPE D PRE-CAST CONCRETE WALK, SEE 03/L 4.0
- TYPE E CRUSHED STONE, SEE 01/L 4.0
- TYPE F CRUSHED STONE, SEE 06/L 4.0
- TYPE G ASPHALT PAVING, S.C.D.

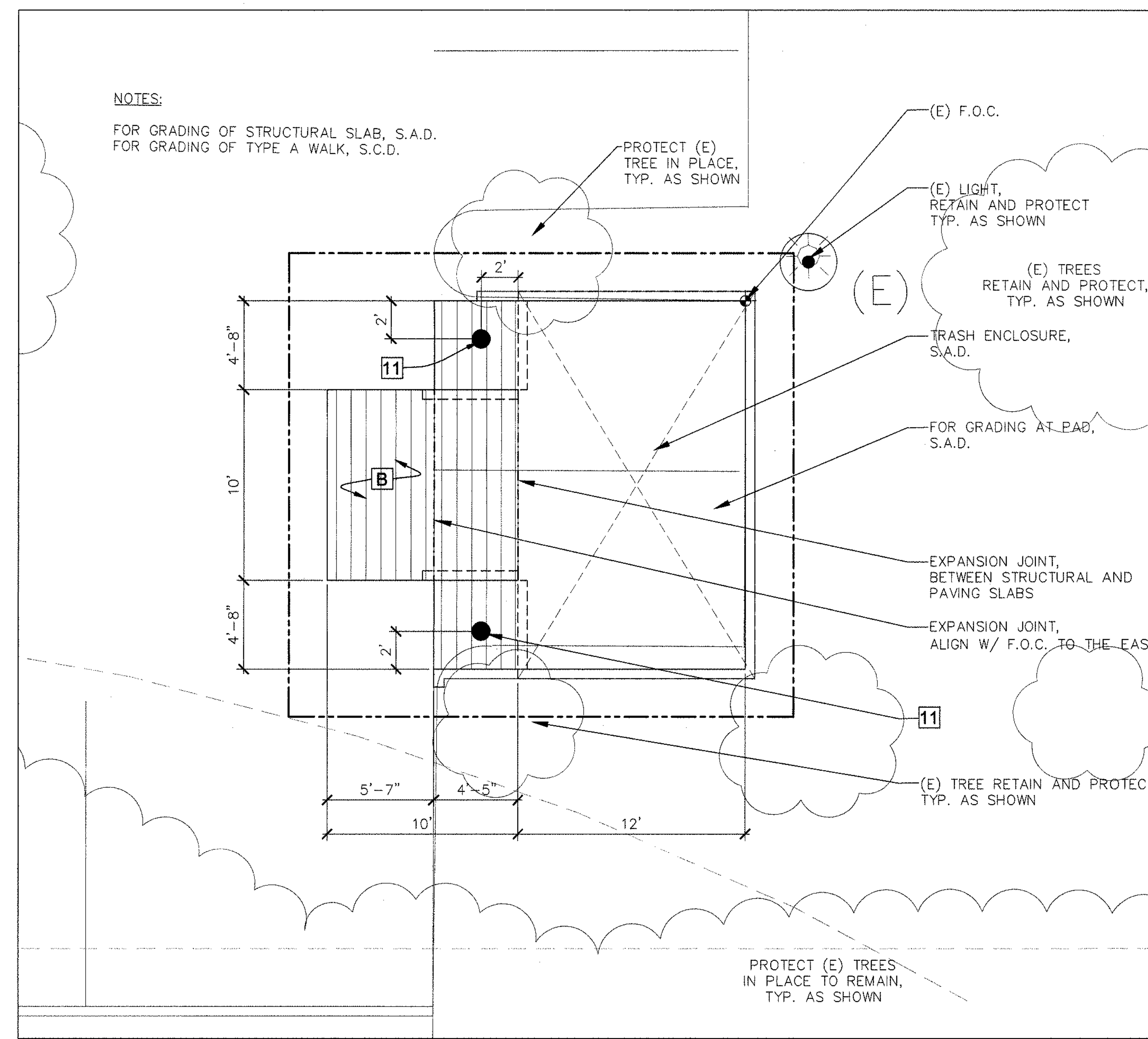
FURNITURE LEGEND

- BENCH TYPE A, SEE L 4.3
- BENCH TYPE B, SEE L 4.3
- TRASH RECEPTACLE, SEE L 4.4
- RECYCLING RECEPTACLE, SEE L 4.4
- CONC. WHEEL STOP, S.C.D.
- BICYCLE RACK, SEE L 4.3
- BICYCLE LOCKER, SEE SPEC.
- 2 BICYCLE LOCKER, SEE SPEC.
- 2 BICYCLE LOCKER, FOR 3-WHEEL BICYCLE, SEE SPEC.
- FLAGPOLE, (S.A.D. FOR DETAILS)
- BOLLARD, (S.C.D. FOR DETAILS)
- FOUNTAIN, SEE L 5.0
- SITE LIGHTING (SEE LIGHTING LAYOUT PLAN, L 2.3)

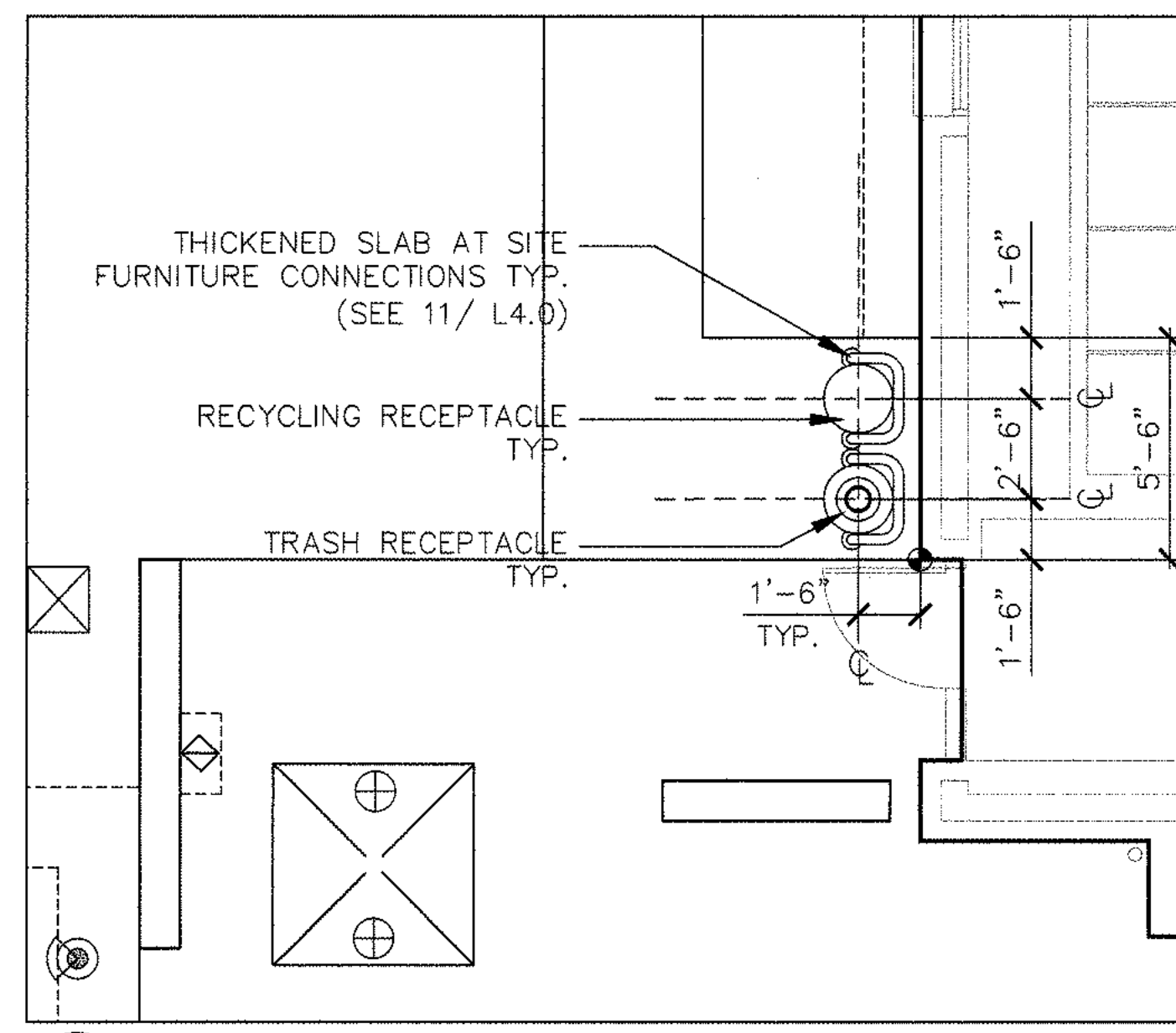
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 1. FOR LIGHTING FIXTURE TYPES AND QUANTITIES, S.E.D. AND SPECIFICATIONS
 2. G.C. TO SUBMIT JOINT PATTERN LAYOUT SHOP DRAWINGS FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL BEFORE INSTALLATION



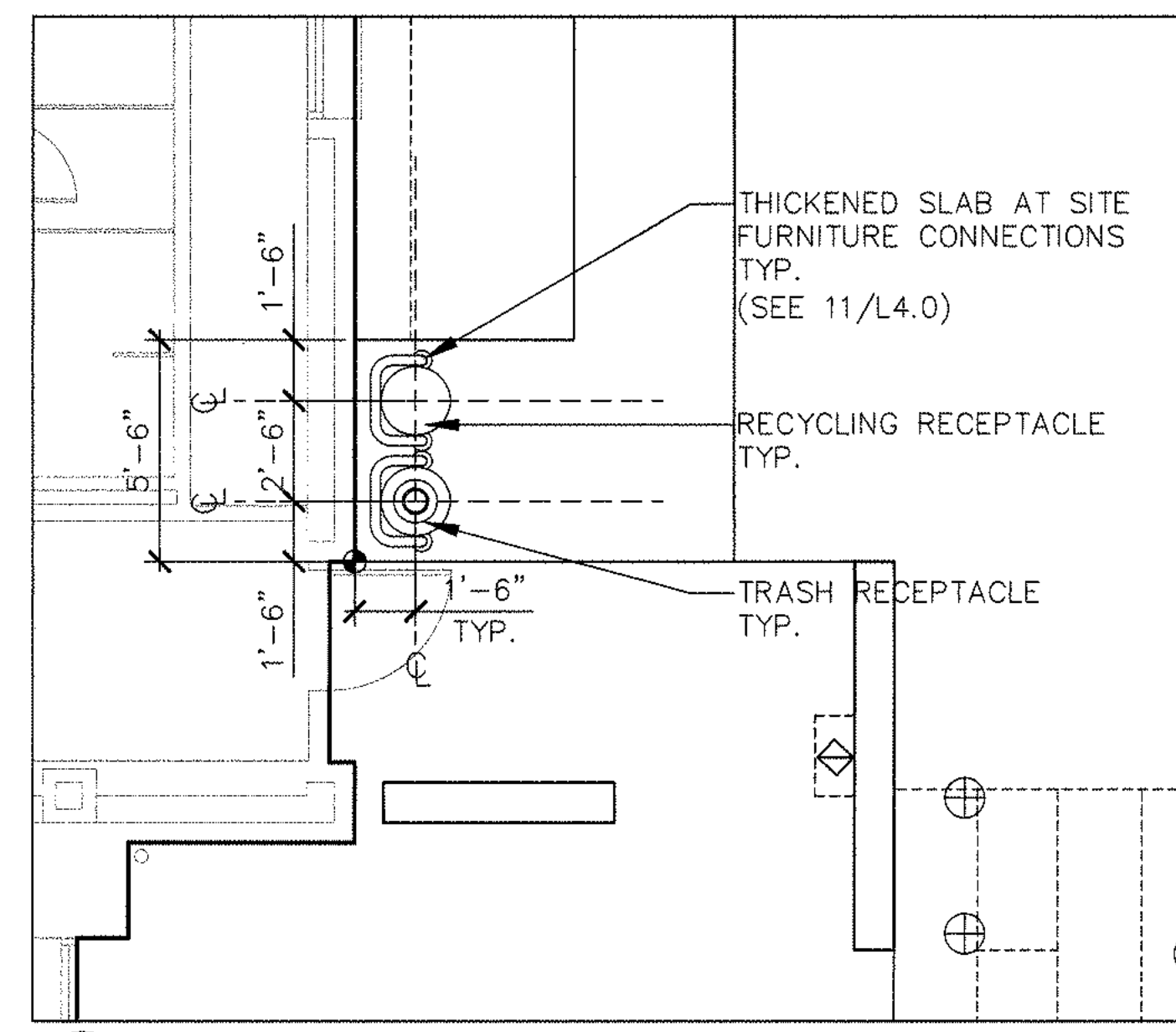
1 SOUTH TRASH ENCLOSURE - LAYOUT & MATERIALS PLAN



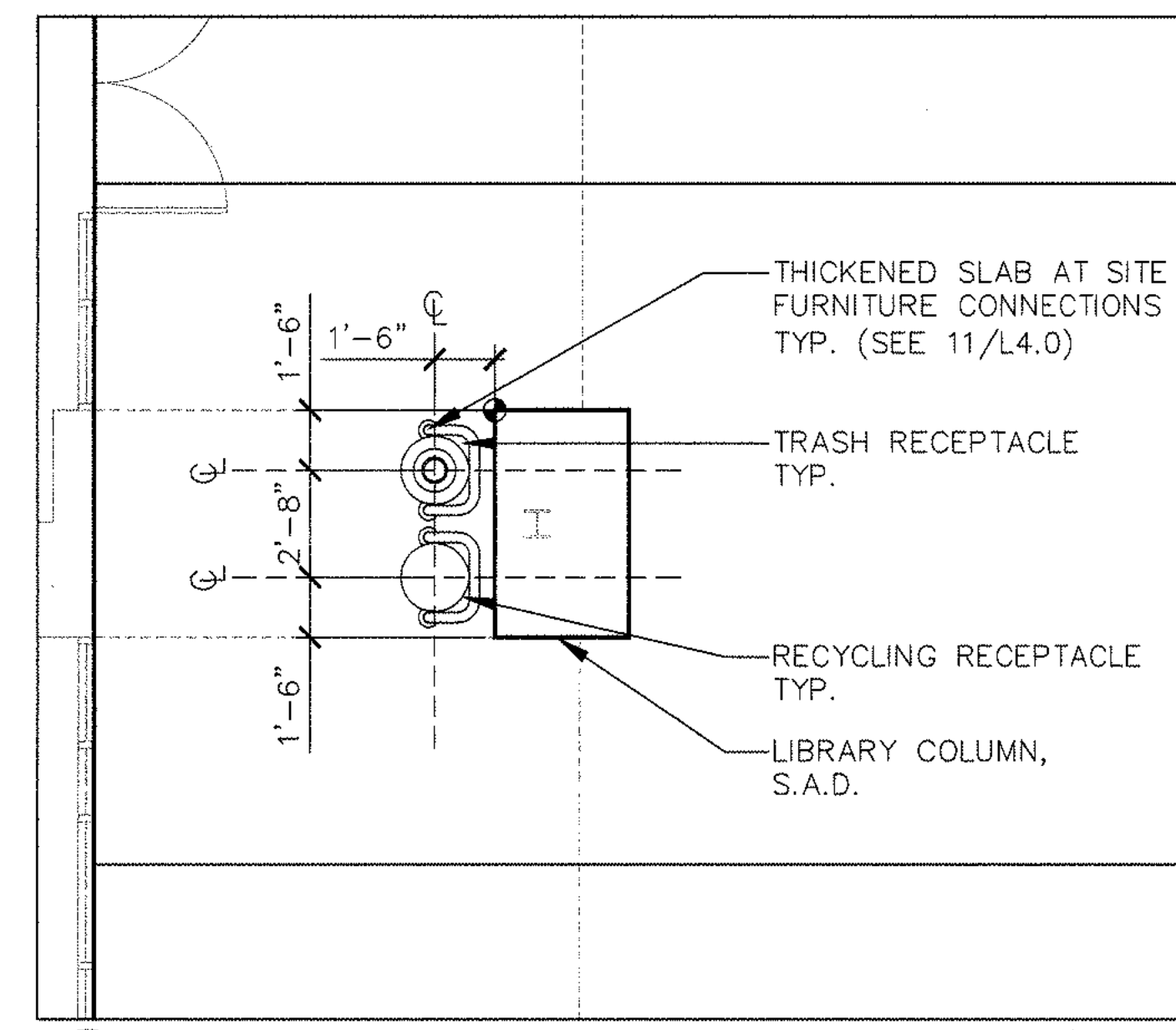
2 NORTH TRASH ENCLOSURE - LAYOUT AND MATERIALS PLAN



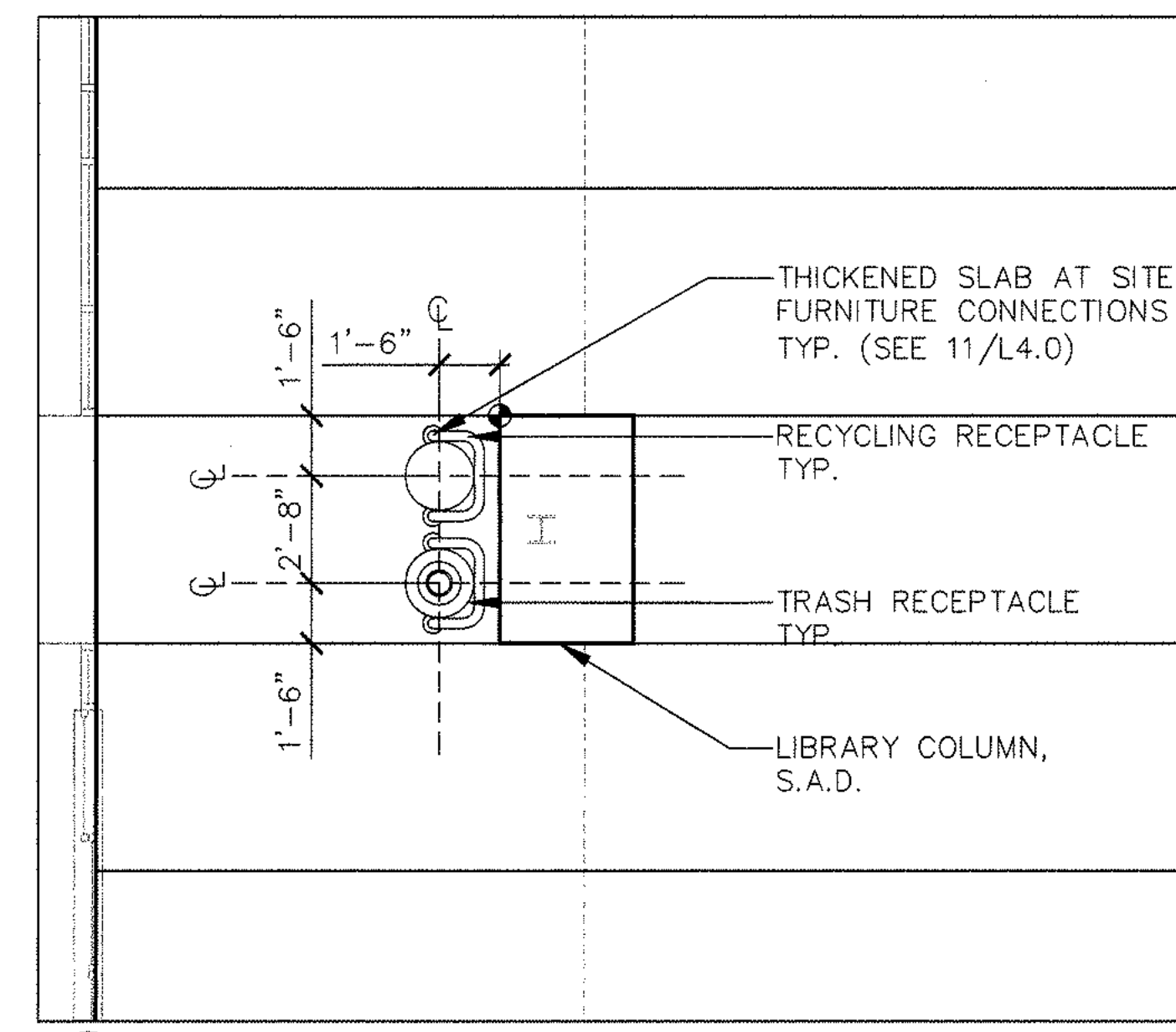
3 RECEPTACLES @ COMM. HALL - SOUTH PLAN



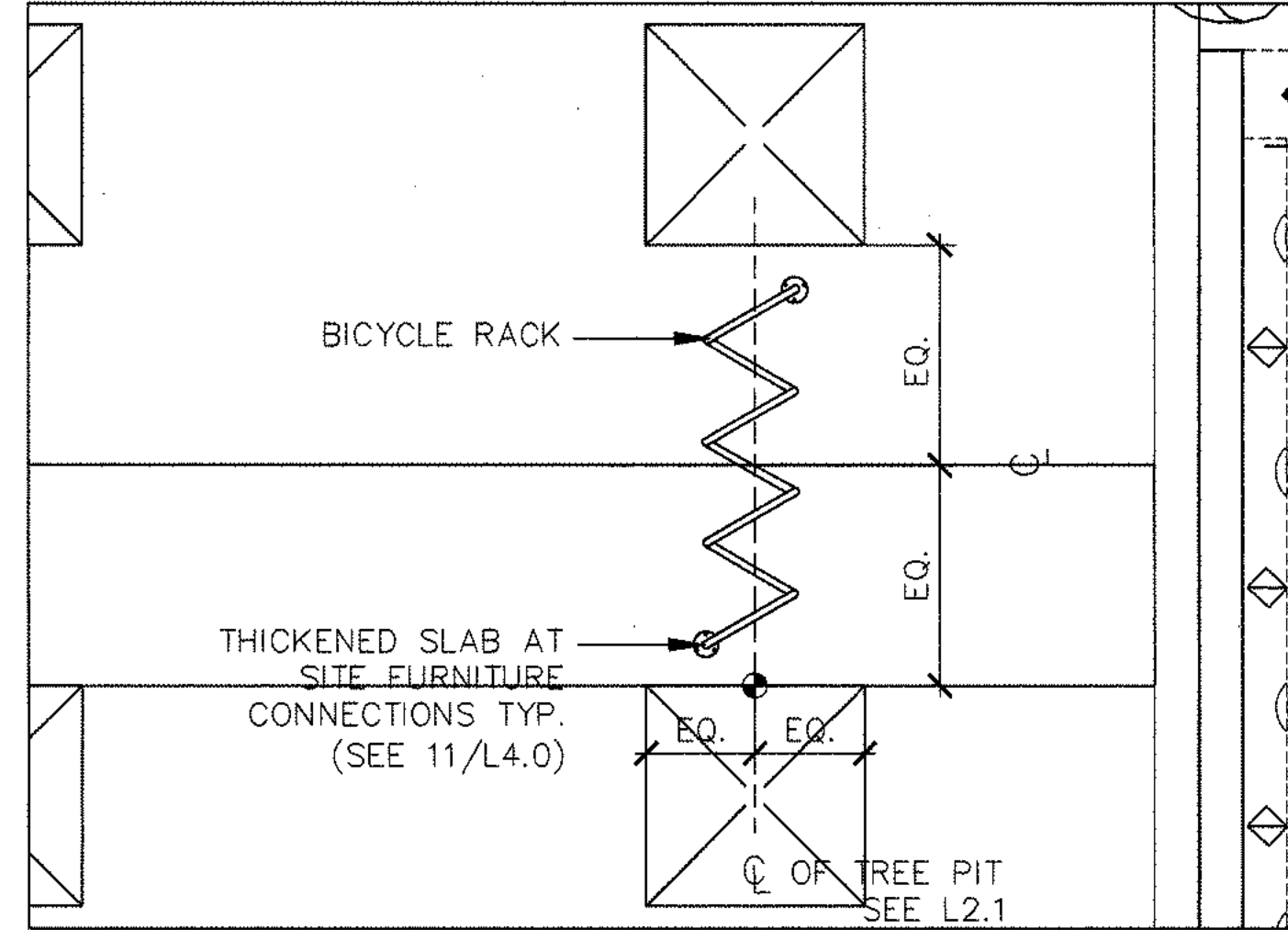
4 RECEPTACLES @ COMM. HALL - NORTH PLAN



5 RECEPTACLES @ LIBRARY - CAFE PLAN



6 RECEPTACLES @ LIBRARY - ENTRANCE PLAN



7 BICYCLE RACK @ PLAZA - LAYOUT PLAN

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LANDSCAPE DETAIL-PLAN-2

SCALE: 1/4"=1'-0" DATE: 2003.04.18
 DRAWN BY: BJ PROJECT NUMBER: 20114.00
 SHEET NUMBER

L3.1

SURVEY LEGEND

- EXISTING
- PROPERTY LINE
- EASEMENT
- FENCE
- WATER VALVE
- STREET LIGHT
- PEDESTRIAN LIGHT
- TREE
- SHRUB
- DRAIN INLET
- VEHICLE CHARGING STATION

SURFACE LEGEND

- A TYPE A CONCRETE WALK, SEE 02/L 4.0
- B TYPE B CONCRETE WALK, SEE 05/L 4.0
- C TYPE C PRE-CAST CONCRETE PAVEMENT, SEE 01/L 4.5
- D TYPE D PRE-CAST CONCRETE WALK, SEE 03/L 4.0
- E TYPE E CRUSHED STONE, SEE 01/L 4.0
- F TYPE F CRUSHED STONE, SEE 06/L 4.0
- G TYPE G ASPHALT PAVING, S.C.D.
- H TYPE H STONE PAVING, SEE L2.01

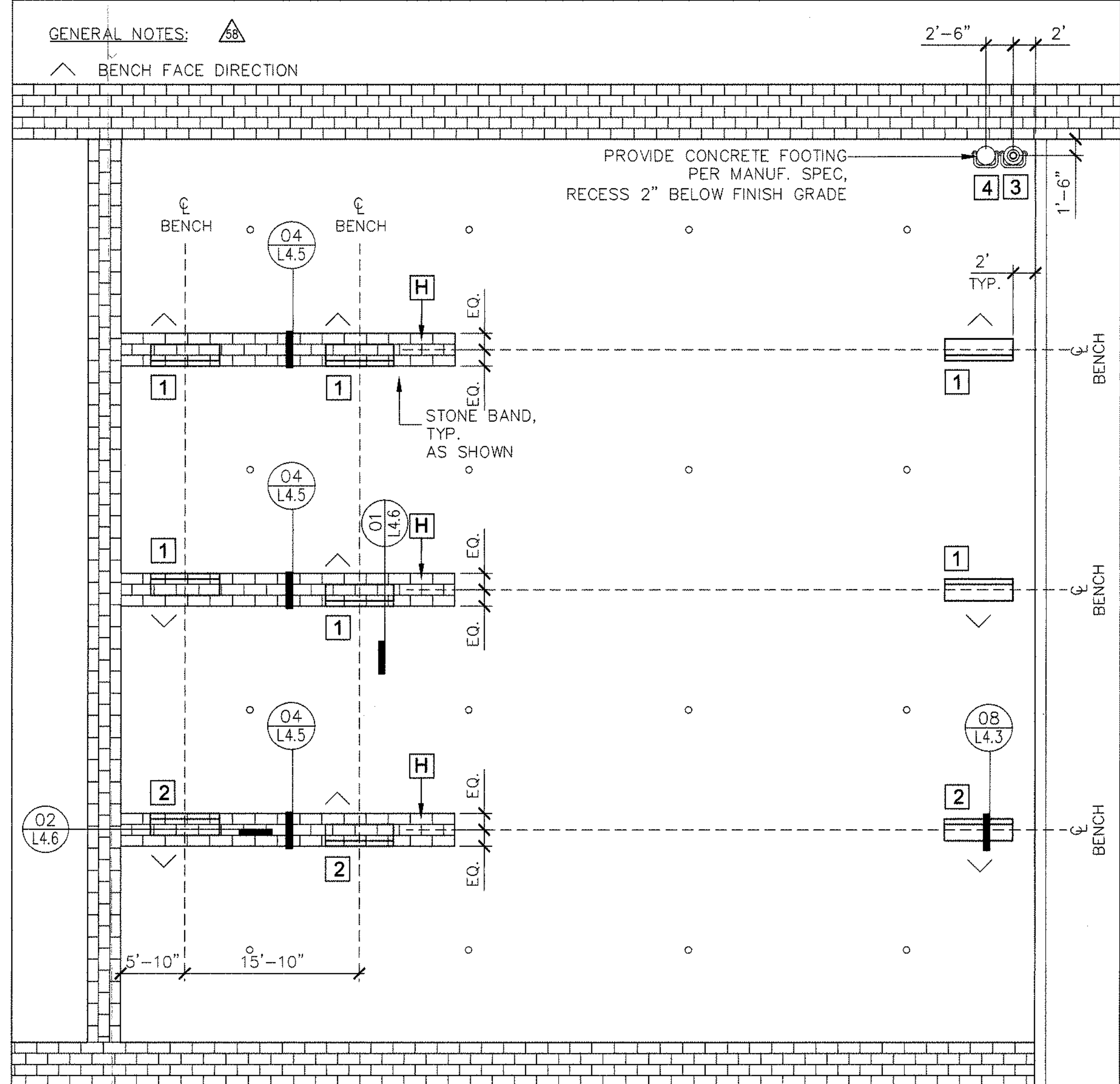
FURNITURE LEGEND

- 1 BENCH TYPE A, SEE L 4.3
- 2 BENCH TYPE B, SEE L 4.3
- 3 TRASH RECEPTACLE, SEE L 4.4
- 4 RECYCLING RECEPTACLE, SEE L 4.4
- 5 CONC. WHEEL STOP, S.C.D.
- 6 BICYCLE RACK, SEE L 4.3
- 7 1 BICYCLE LOCKER, SEE SPEC.
- 8 2 BICYCLE LOCKER, SEE SPEC.
- 9 2 BICYCLE LOCKER, FOR 3-WHEEL BICYCLE, SEE SPEC.
- 10 FLAGPOLE, (S.A.D. FOR DETAILS)
- 11 BOLLARD, (S.C.D. FOR DETAILS)
- 12A TREE GRATE, SEE 03/L 4.4
- 13 BENCH TYPE C, SEE 05/L 4.4
- FTN FOUNTAIN, SEE L 5.0
- SITE LIGHTING (SEE LIGHTING LAYOUT PLAN, L 2.3)

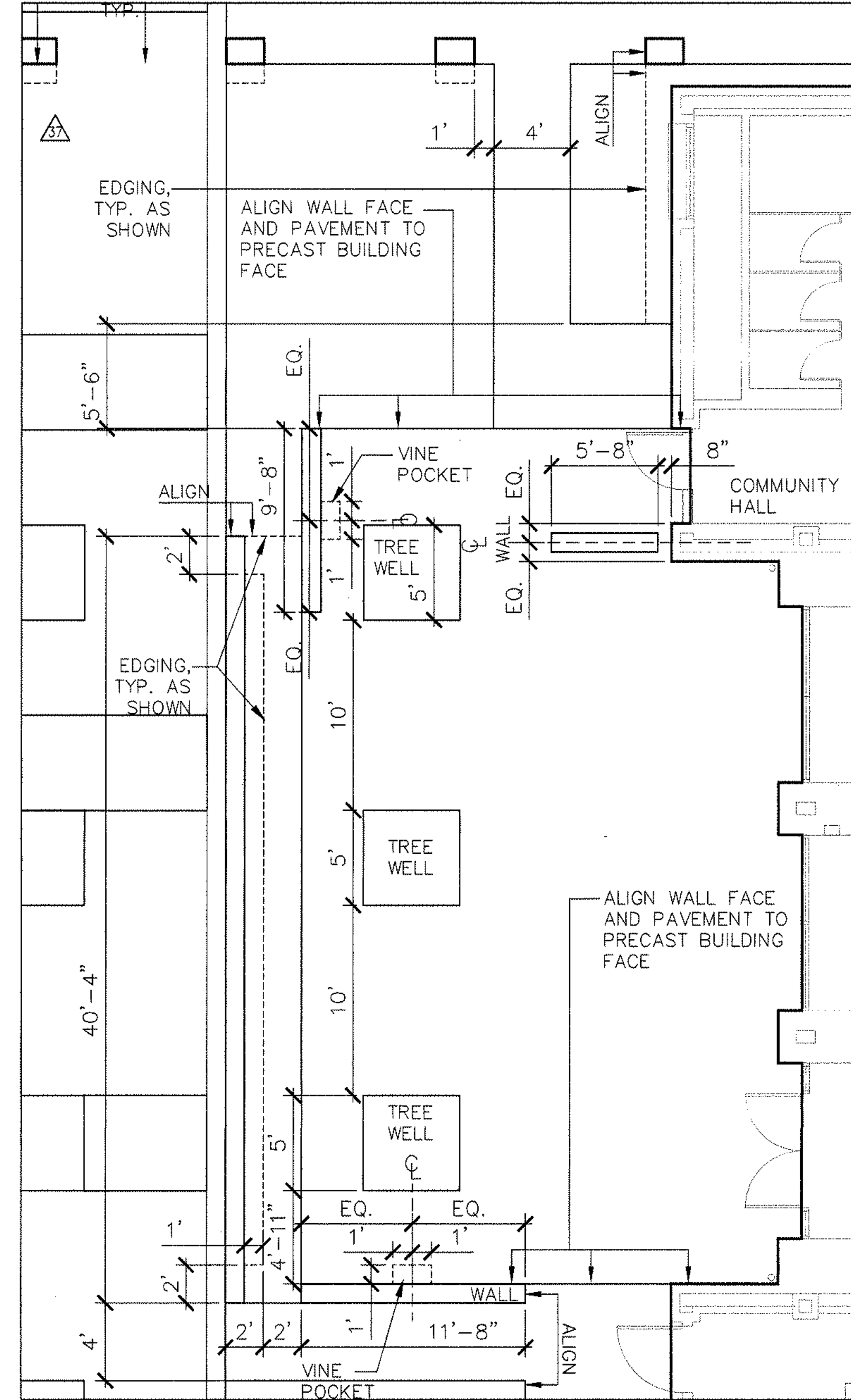
PLANTING LEGEND

- N SURFACE TYPE G, SEE 01/L 4.1 SOD LAWN, TYP. AS SHOWN
- O SURFACE TYPE O, SEE 02/L 4.1 HIGH PERENNIAL, TYP. AS SHOWN
- P SURFACE TYPE P, SEE 02/L 4.1 MEDIUM PERENNIAL, TYP. AS SHOWN
- Q SURFACE TYPE Q, SEE 02/L 4.1 HIGH PERENNIAL, TYP. AS SHOWN
- R SURFACE TYPE R, SEE 02/L 4.1 HIGH PERENNIALS, TYP. AS SHOWN
- S SURFACE TYPE S, SEE 02/L 4.1 LOW PERENNIAL, TYP. AS SHOWN

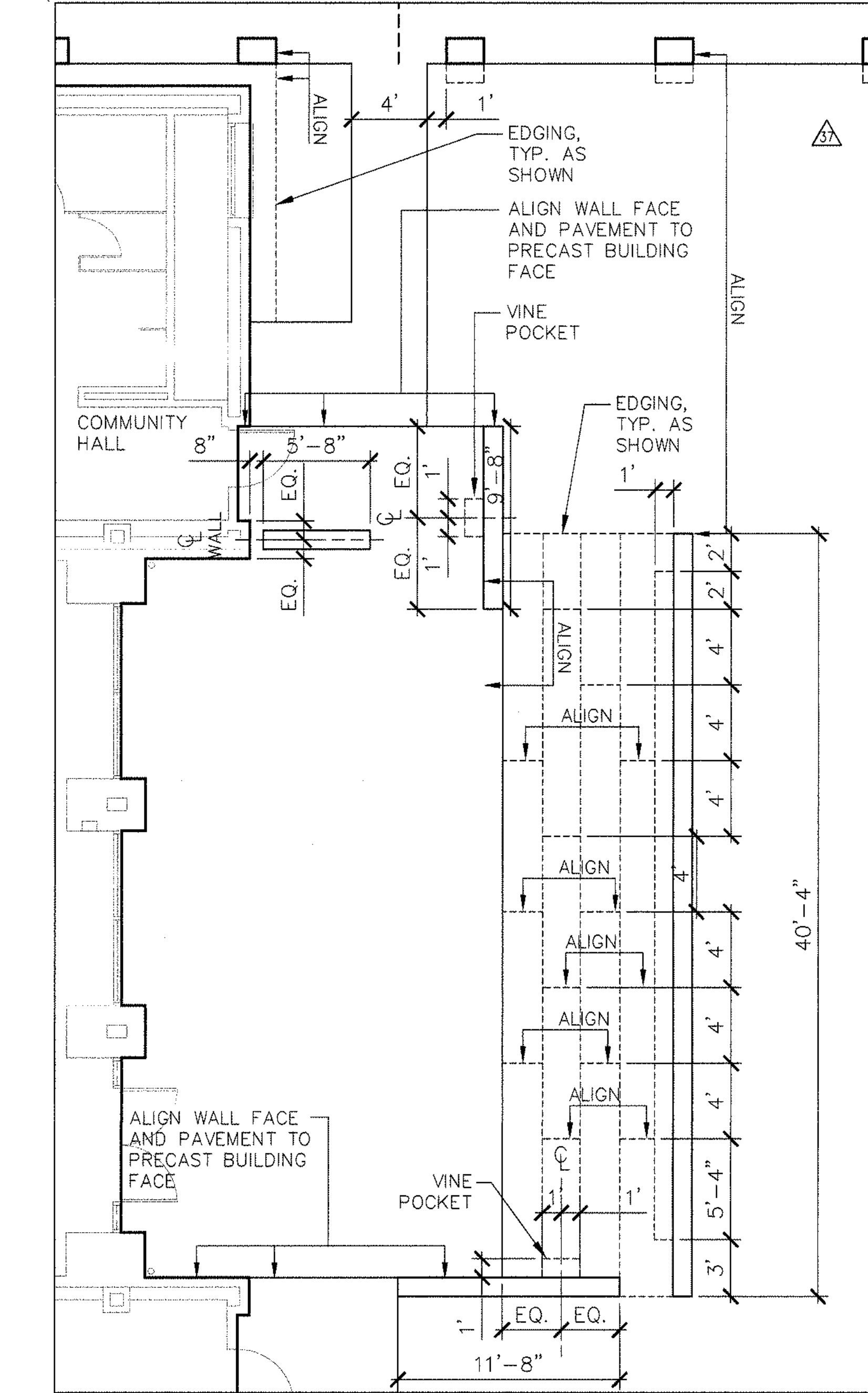
NOTES:
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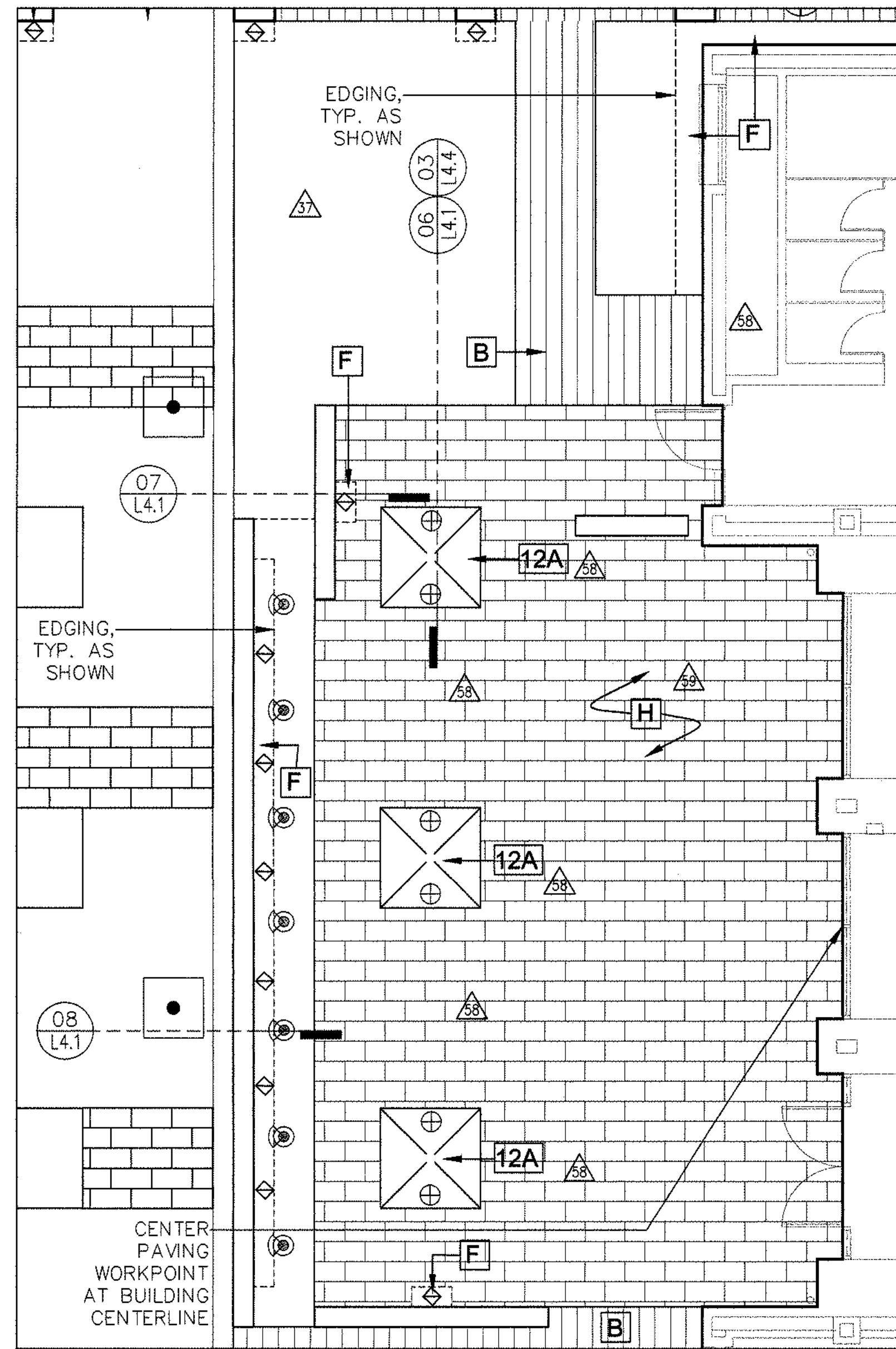
1 NORTHWEST PLAZA QUADRANT LAYOUT PLAN



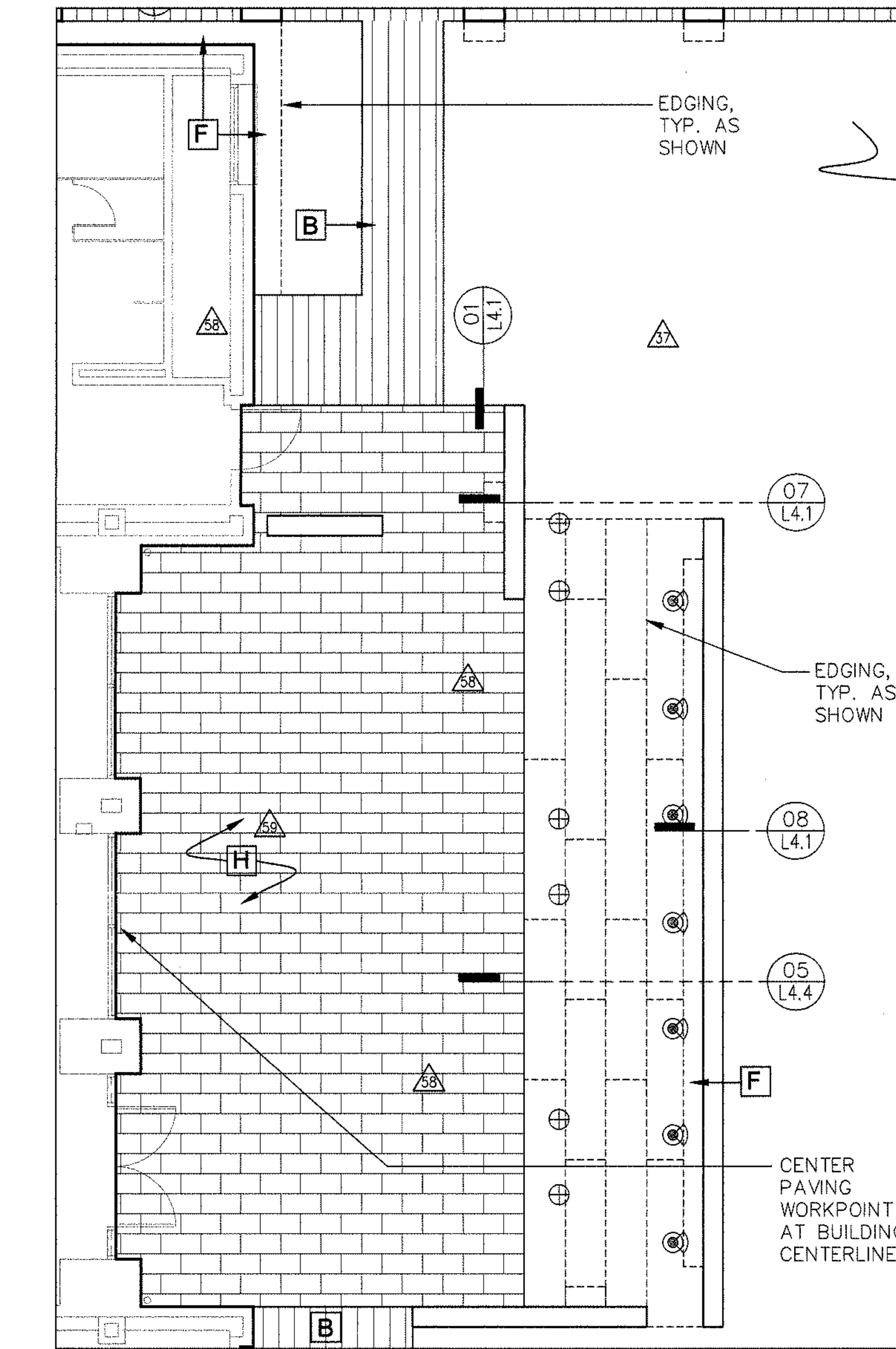
2 SOUTH GARDEN ROOM LAYOUT PLAN



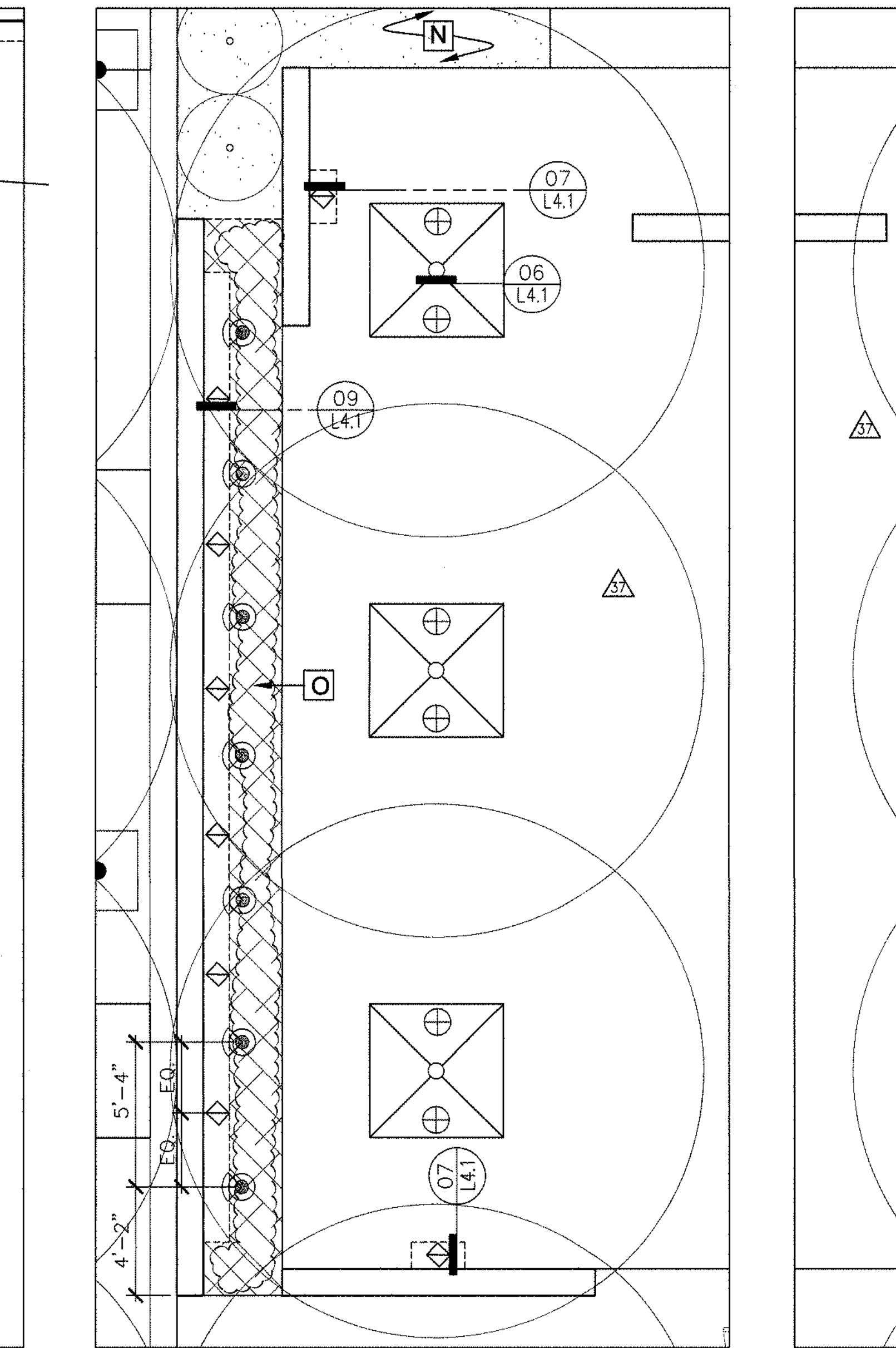
3 NORTH GARDEN ROOM LAYOUT PLAN



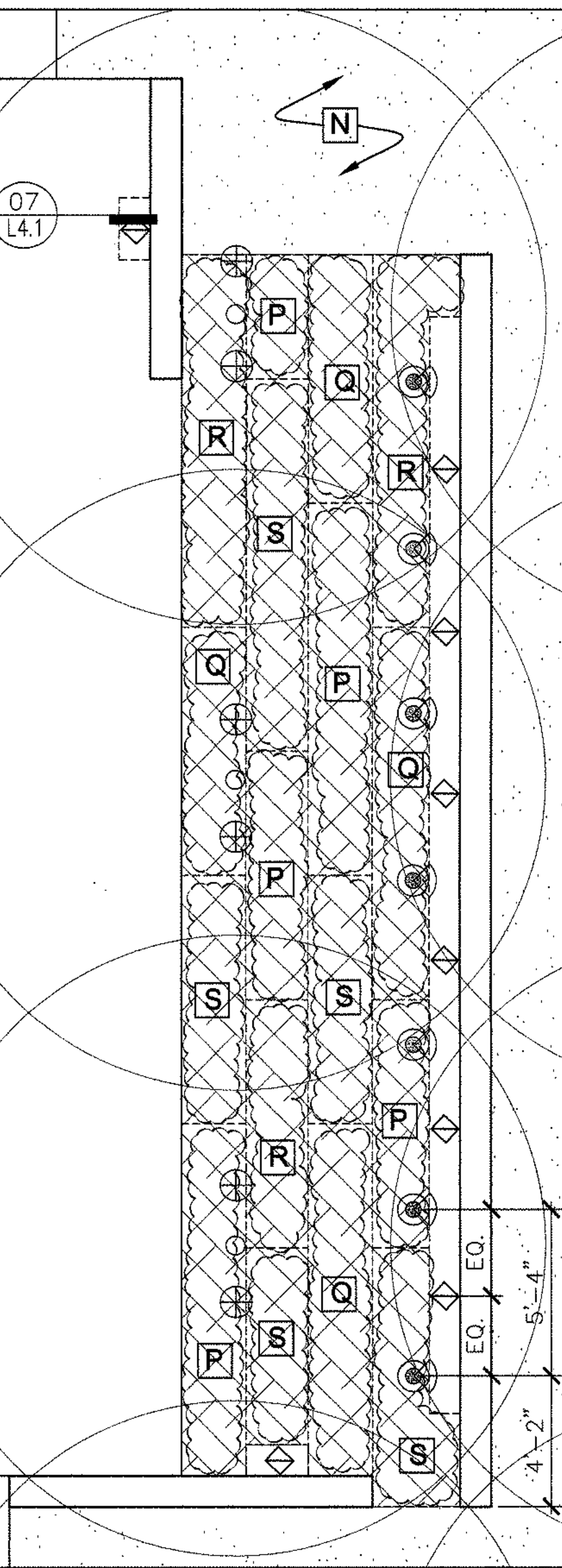
4 SOUTH GARDEN ROOM MATERIAL/FURNISHINGS PLAN



5 NORTH GARDEN ROOM MATERIAL/FURNISHINGS PLAN



6 SOUTH GARDEN ROOM PLANTING PLAN



7 NORTH GARDEN ROOM PLANTING PLAN

Revisions	Date	Description
△	2004.02.13	CCD035
△	2004.03.18	CCD032
△	2004.05.06	CCD056
△	2004.05.06	CCD057

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Issue

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Sheet Title

LANDSCAPE
 DETAIL-PLAN-3

Scale: VARIES Date: 2003.04.18
 Drawn by: BJL Project Number: 20114.00
 Sheet Number

L3.2

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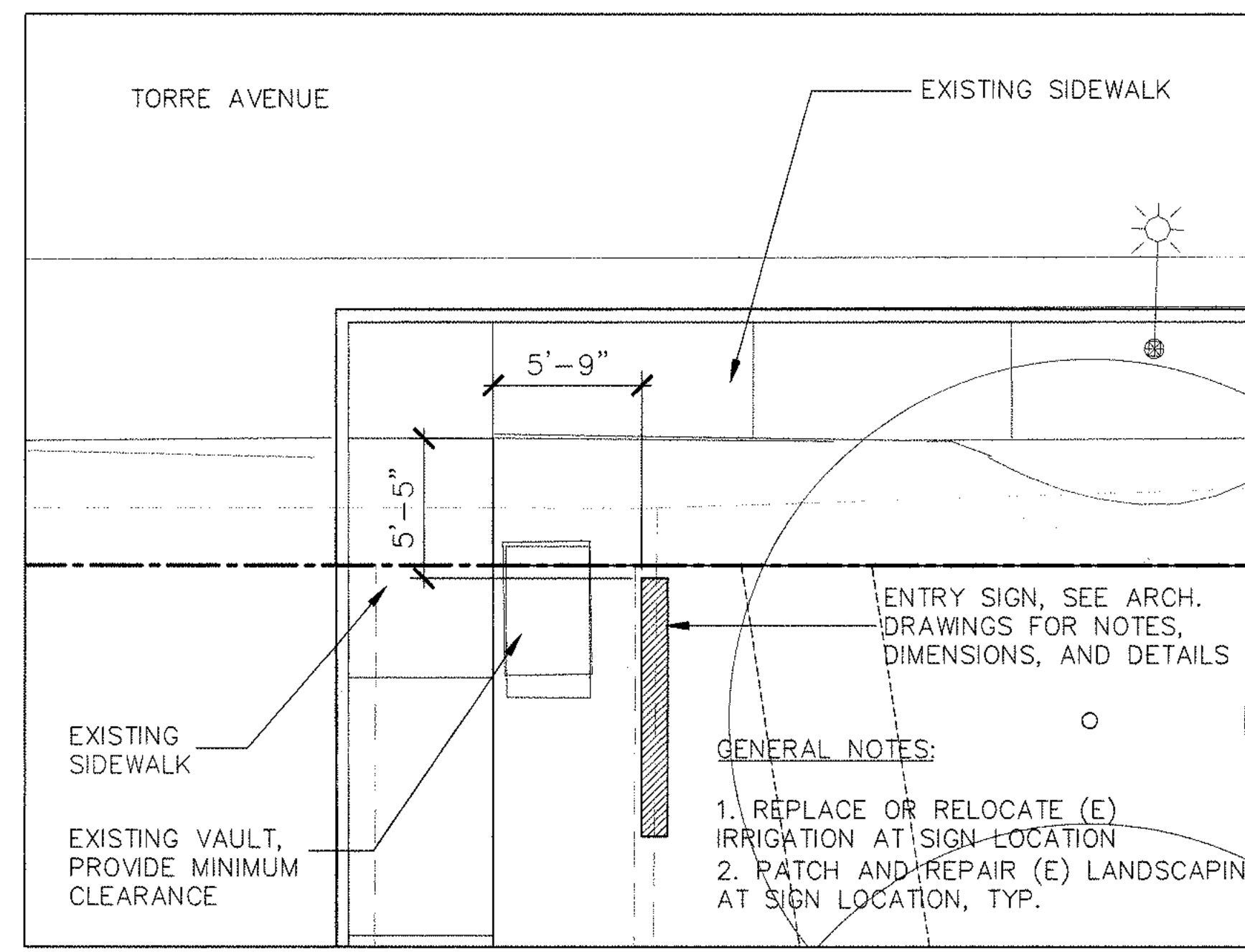
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SURVEY LEGEND

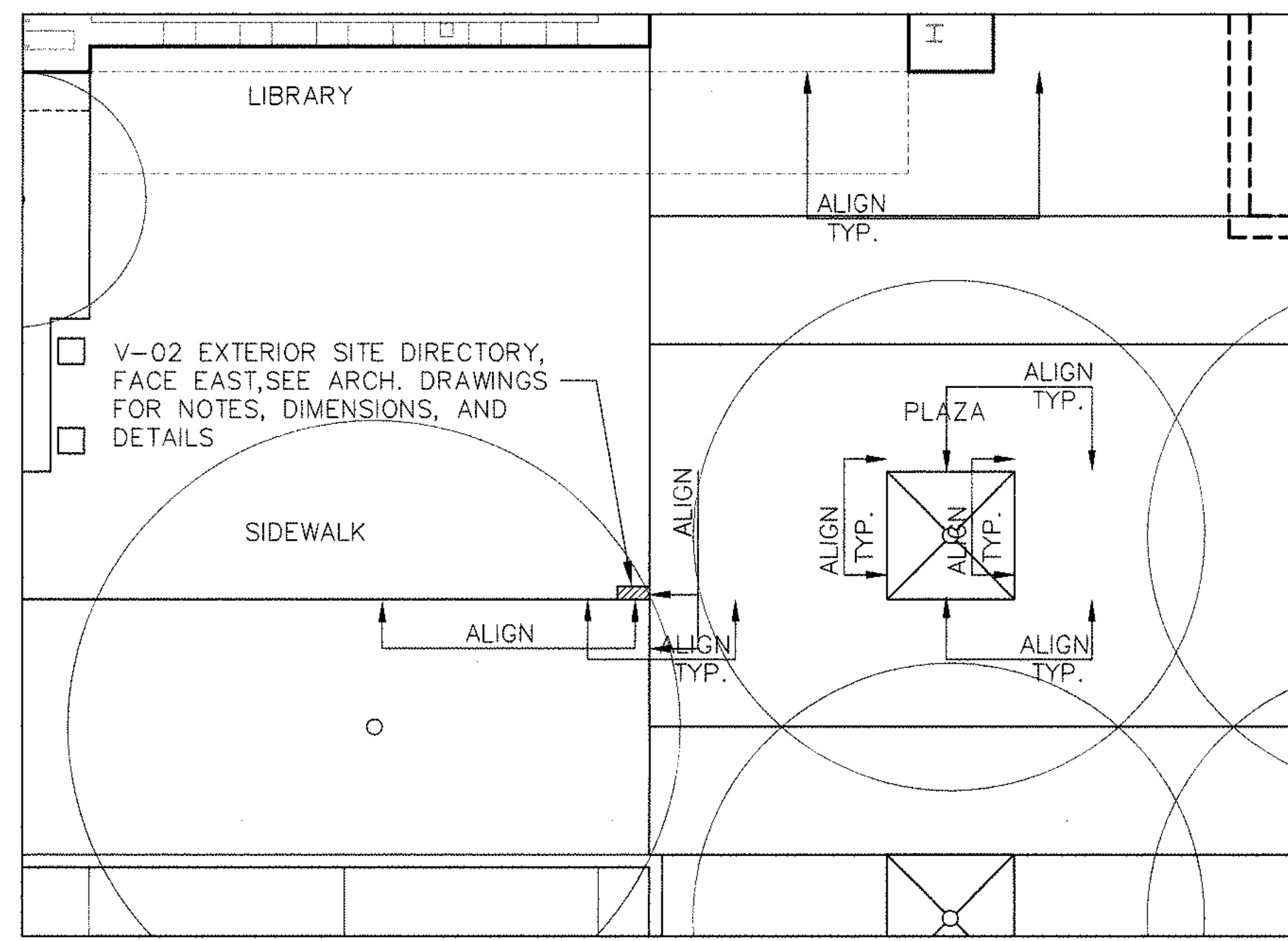
- EXISTING
- PROPERTY LINE
- EASEMENT
- FENCE
- WATER VALVE
- STREET LIGHT
- PEDESTRIAN LIGHT
- TREE
- SHRUB
- DRAIN INLET
- VEHICLE CHARGING STATION

SURFACE LEGEND

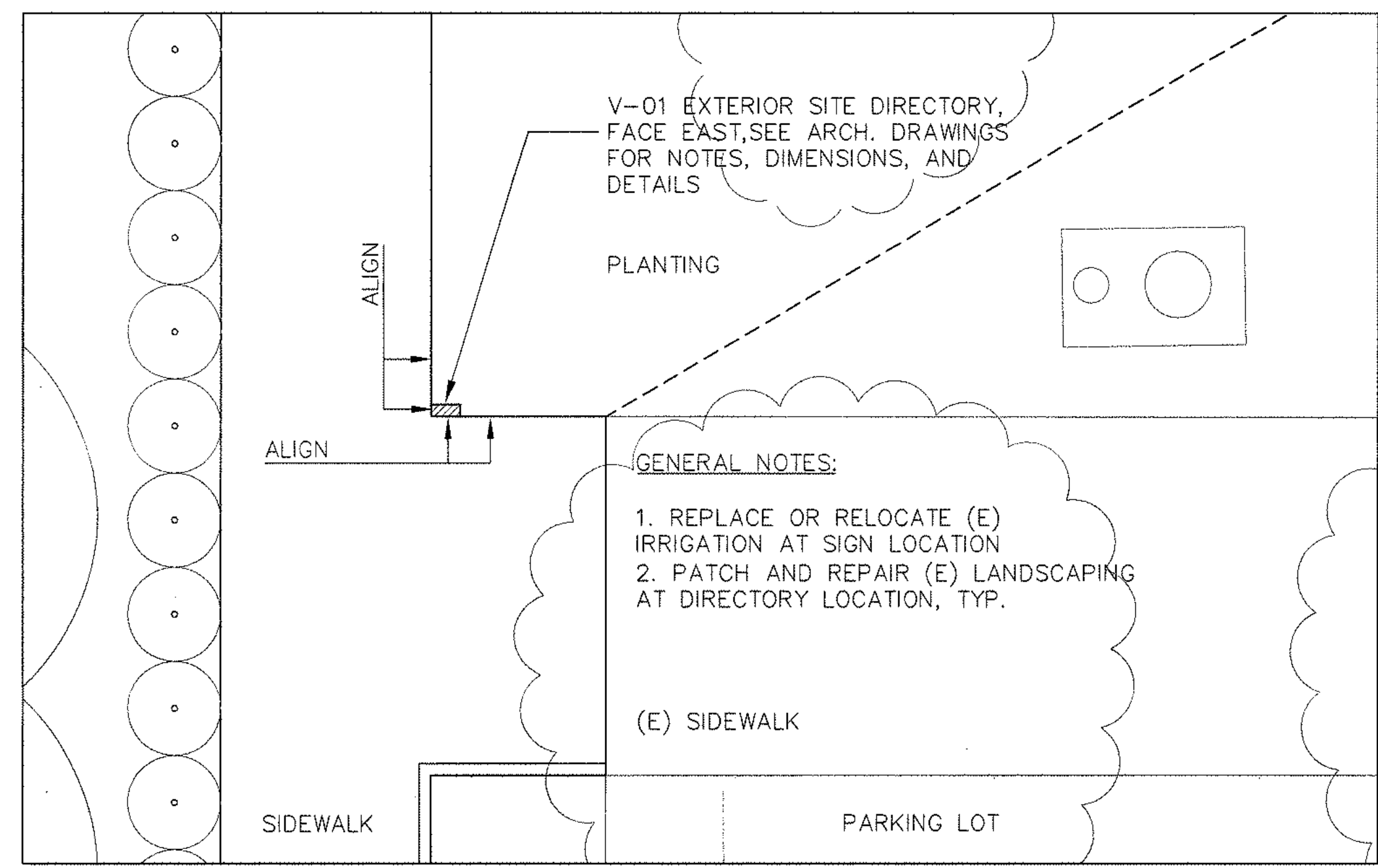
- TYPE H STONE PAVING, SEE L2.01
- TYPE I PRIMARY MONUMENT SIGN STONE, SEE 05&06/L4.5



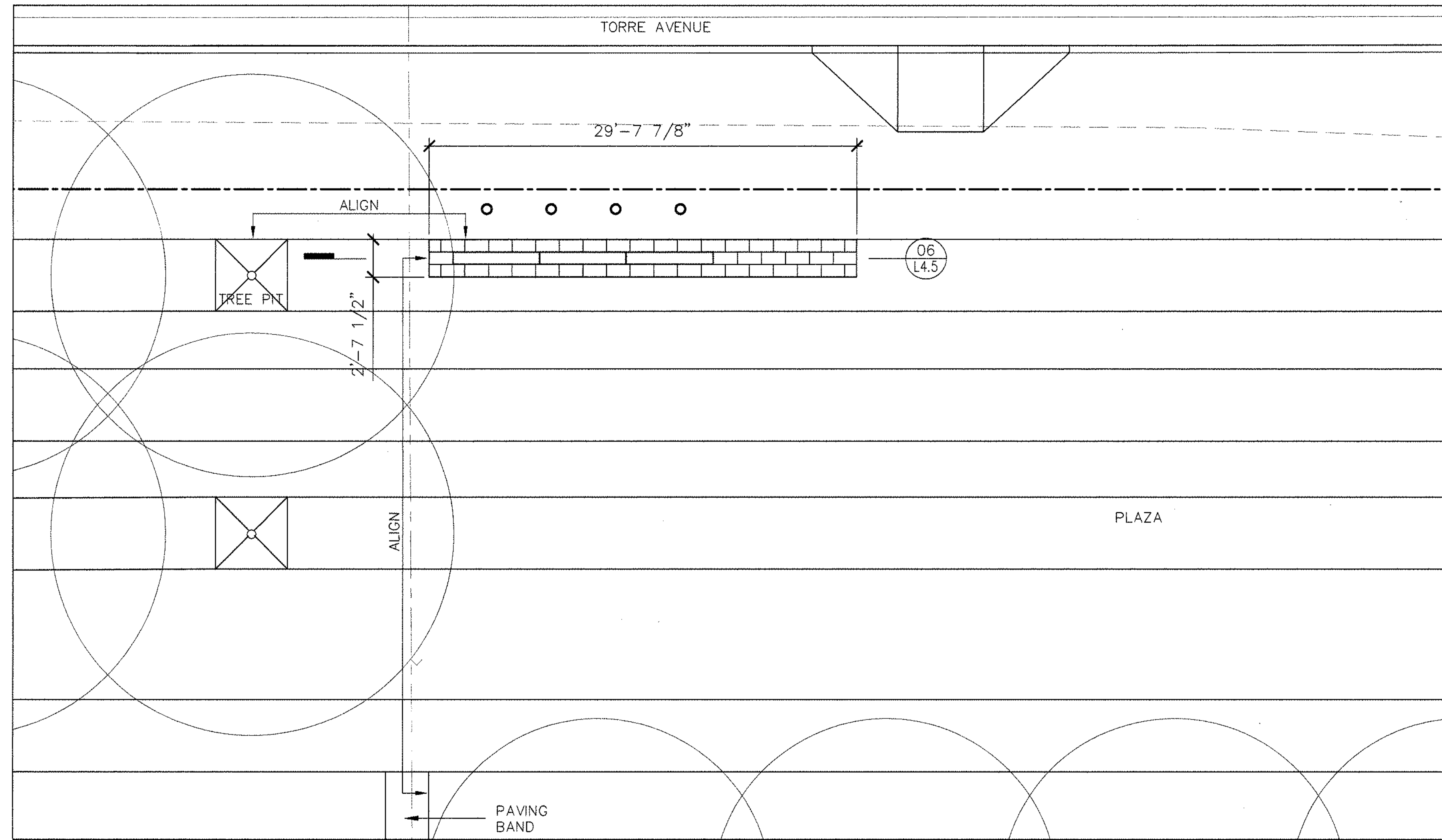
1 SOUTH ENTRY SIGN LAYOUT PLAN
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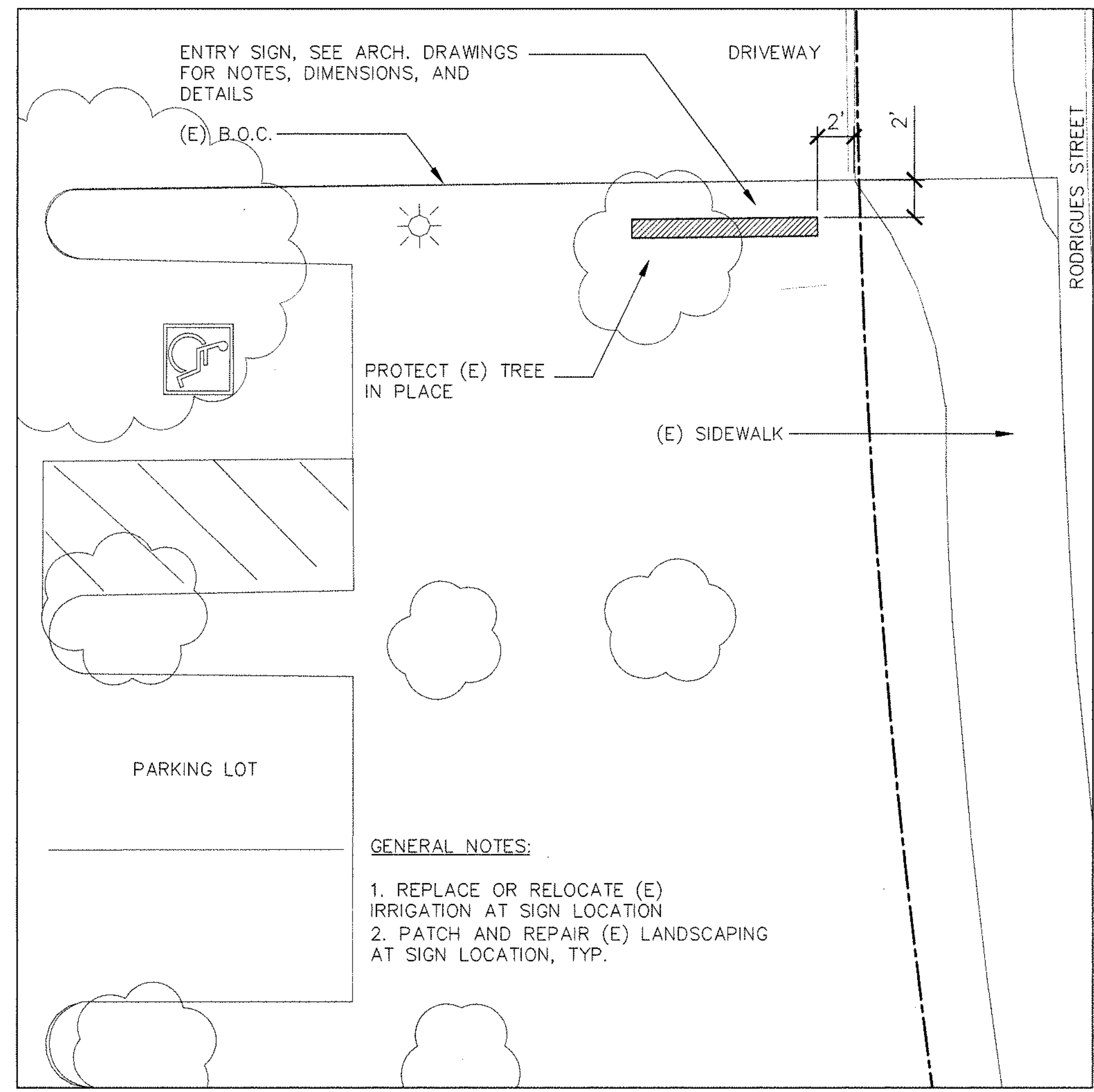
2 SOUTH EXTERIOR SITE DIRECTORY LAYOUT PLAN
SCALE: 3/16"=1'-0"



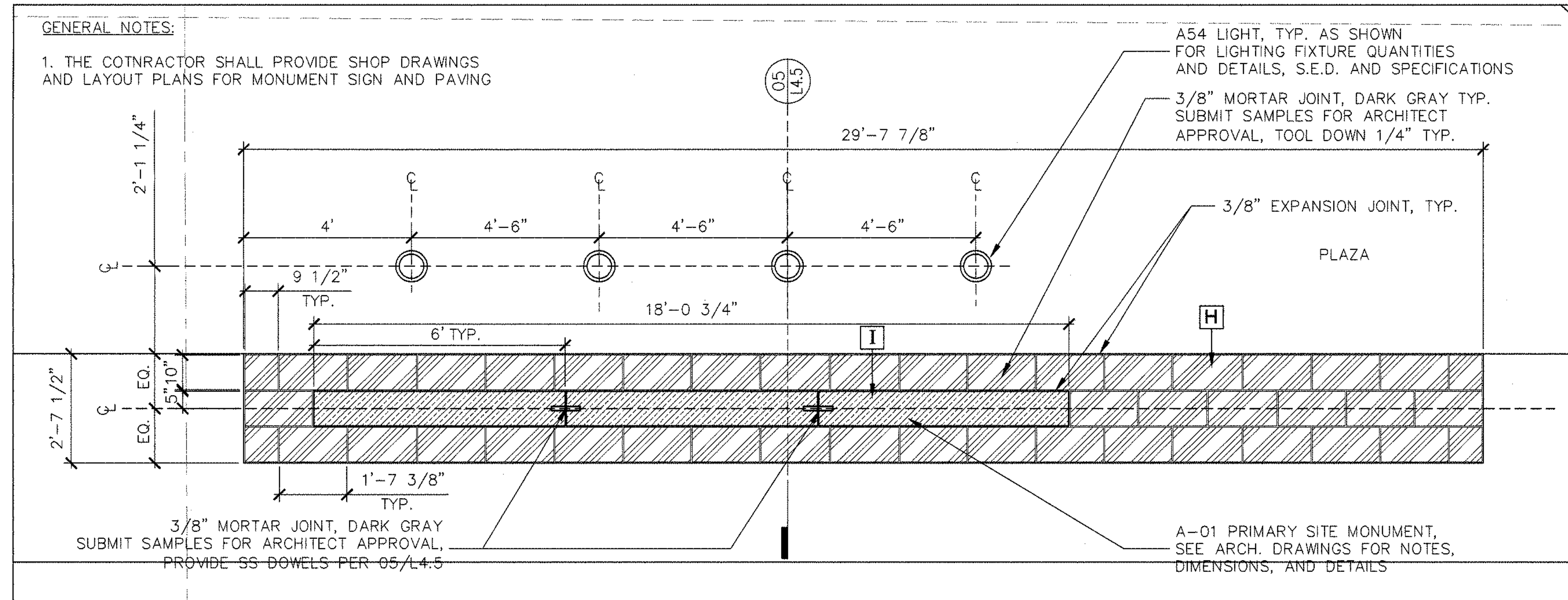
3 NORTH EXTERIOR SITE DIRECTORY LAYOUT PLAN
SCALE: 3/16"=1'-0"



4 PRIMARY MONUMENT SIGN LAYOUT PLAN
SCALE: 3/16"=1'-0"



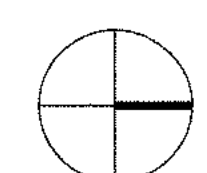
5 NORTH ENTRY SIGN LAYOUT PLAN
SCALE: 3/16"=1'-0"



6 PRIMARY SITE MONUMENT DETAIL PLAN
SCALE: 1/2"=1'-0"

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Redding, CA 95705
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San Francisco, CA 94103
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Revisions	Date	Description
AS	2004.04.12	CCD043
AS	2004.05.06	CCD056

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Sheet 05e

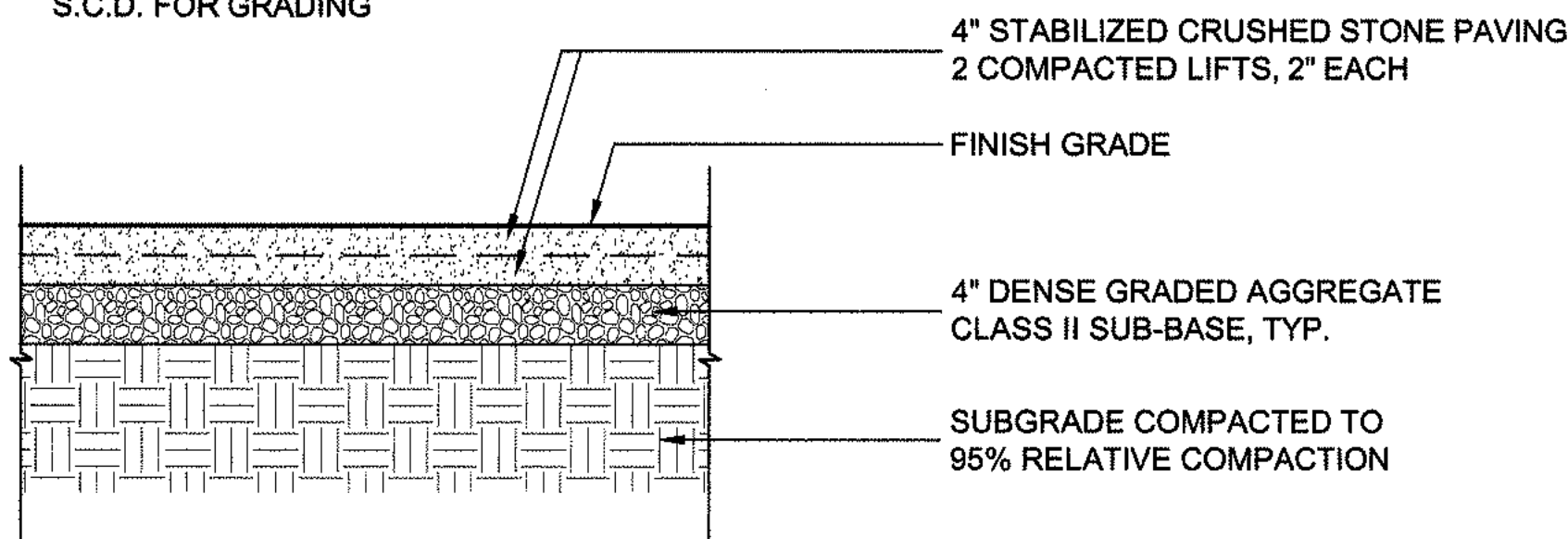
LANDSCAPE DETAIL-PLAN-4

Scale VARIES Date 2003.04.18
Drawn by BJ Project number 20114.00
Sheet number

L3.5

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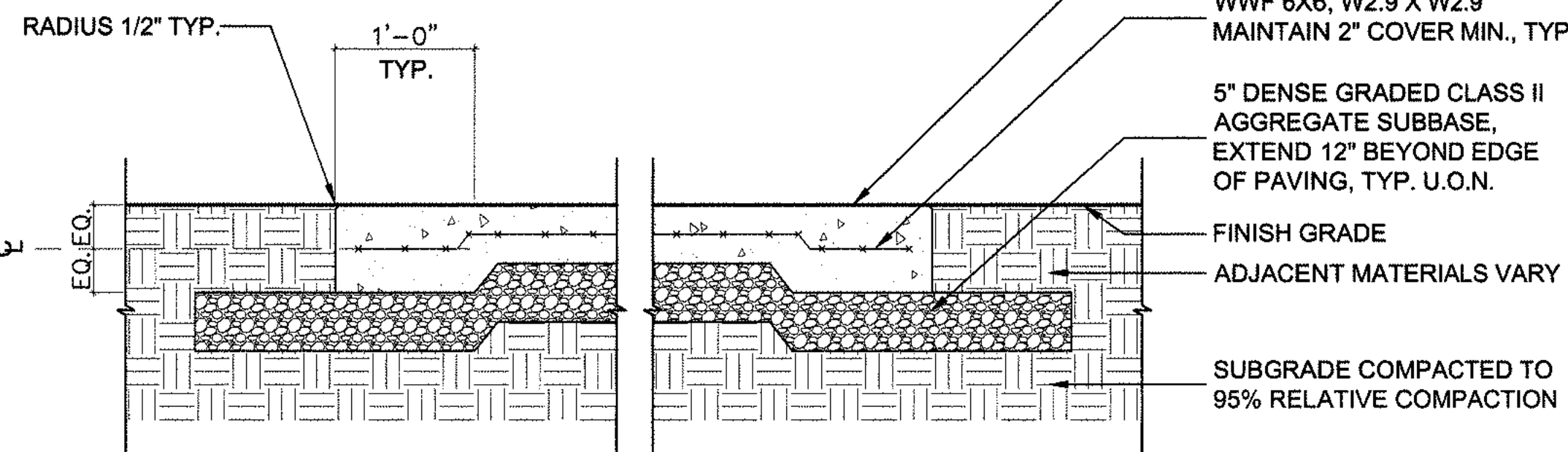
NOTES:
1. SLOPE TO DRAIN, S.C.D. FOR GRADING



1 TYPE E CRUSHED STONE SECTION

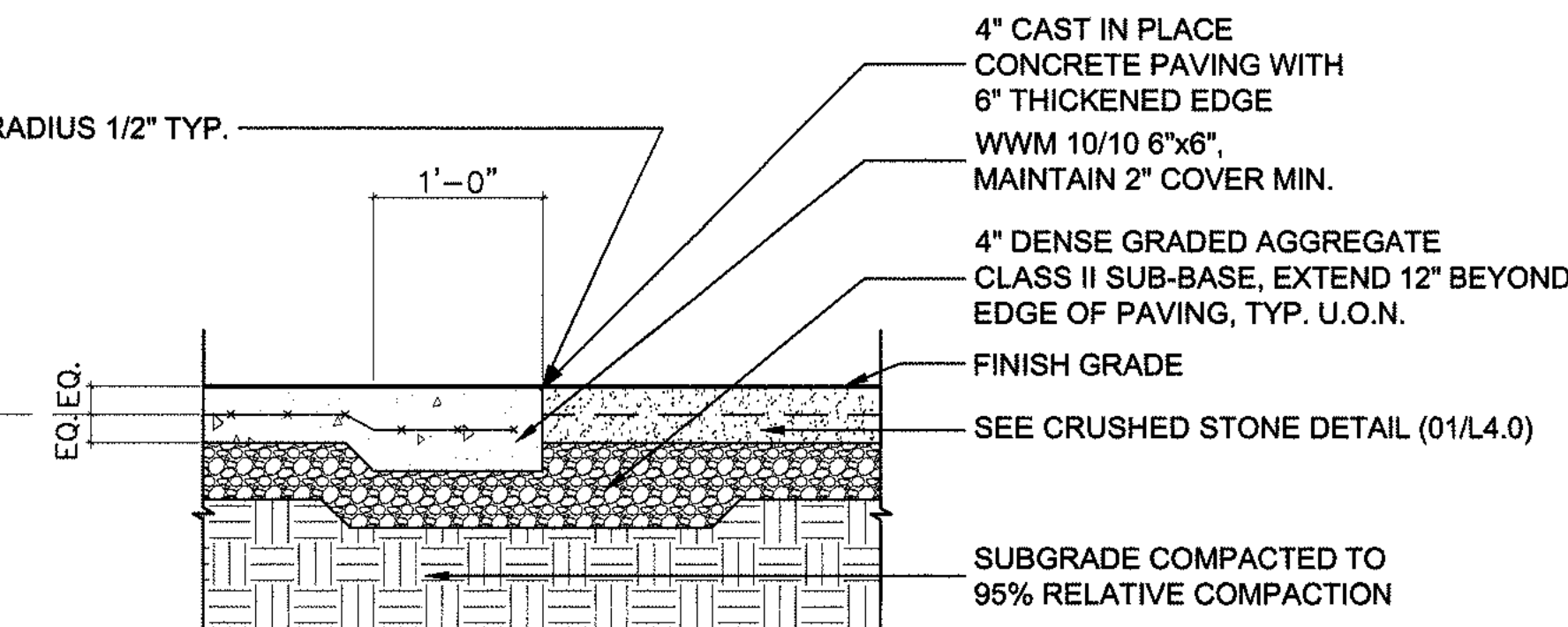
SCALE: 1"=1'-0"

NOTES:
1. SLOPE TO DRAIN, S.C.D. FOR GRADING



2 TYPE A CONCRETE WALK SECTION

SCALE: 1"=1'-0"

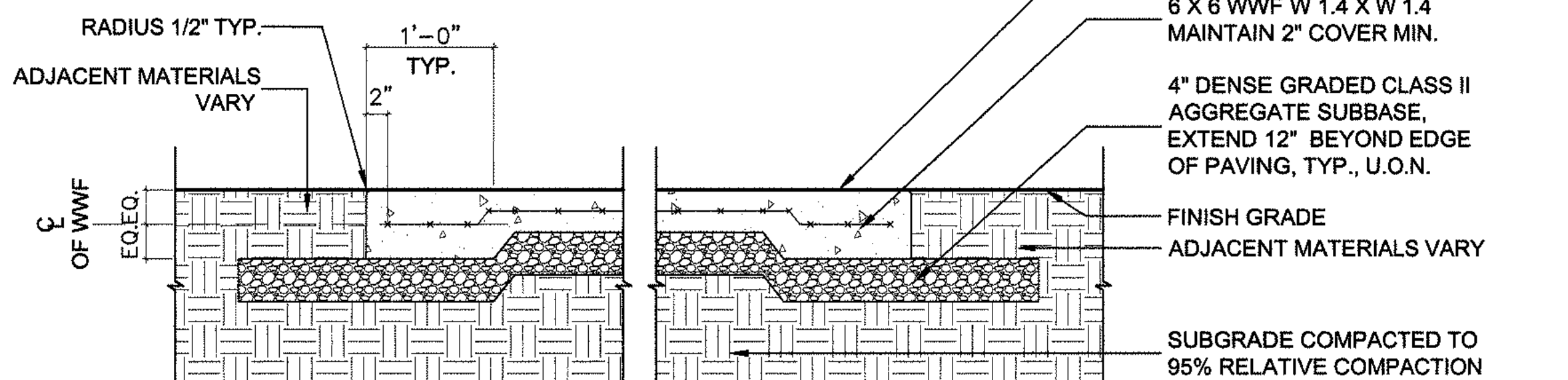


4 TYPE B CONCRETE WALK/CRUSHED STONE TRANSITION SECTION

SCALE: 1"=1'-0"

NOTES:

1. SLOPE TO DRAIN, S.C.D. FOR GRADING



5 TYPE B CONCRETE WALK SECTION

SCALE: 1"=1'-0"

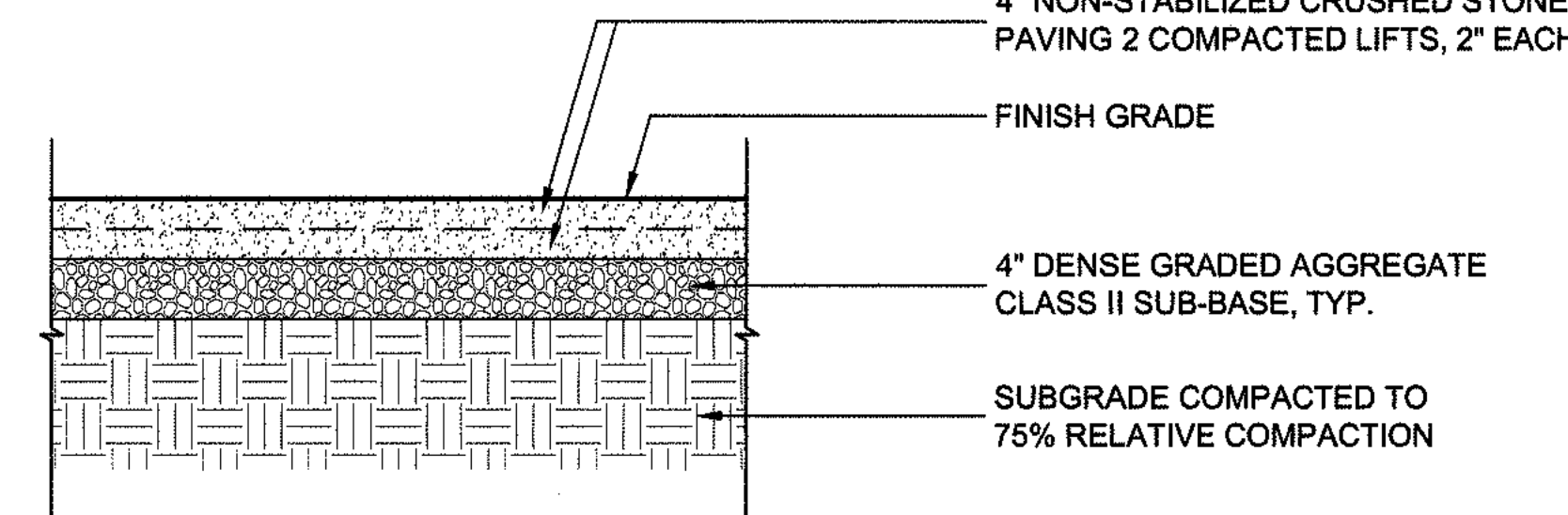
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3 PRE-CAST CONCRETE PAVER WALK SECTION

SCALE: 3/4"=1'-0"

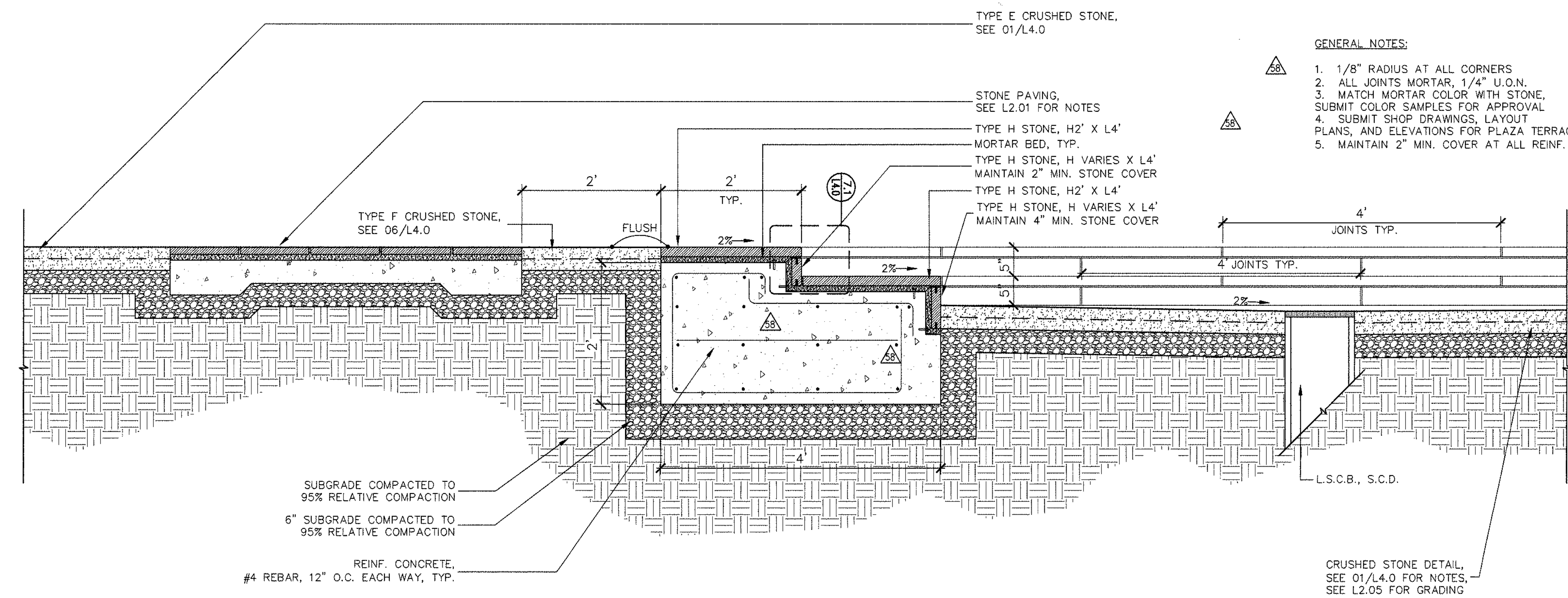
NOTES:

1. SLOPE TO DRAIN, S.C.D. FOR GRADING



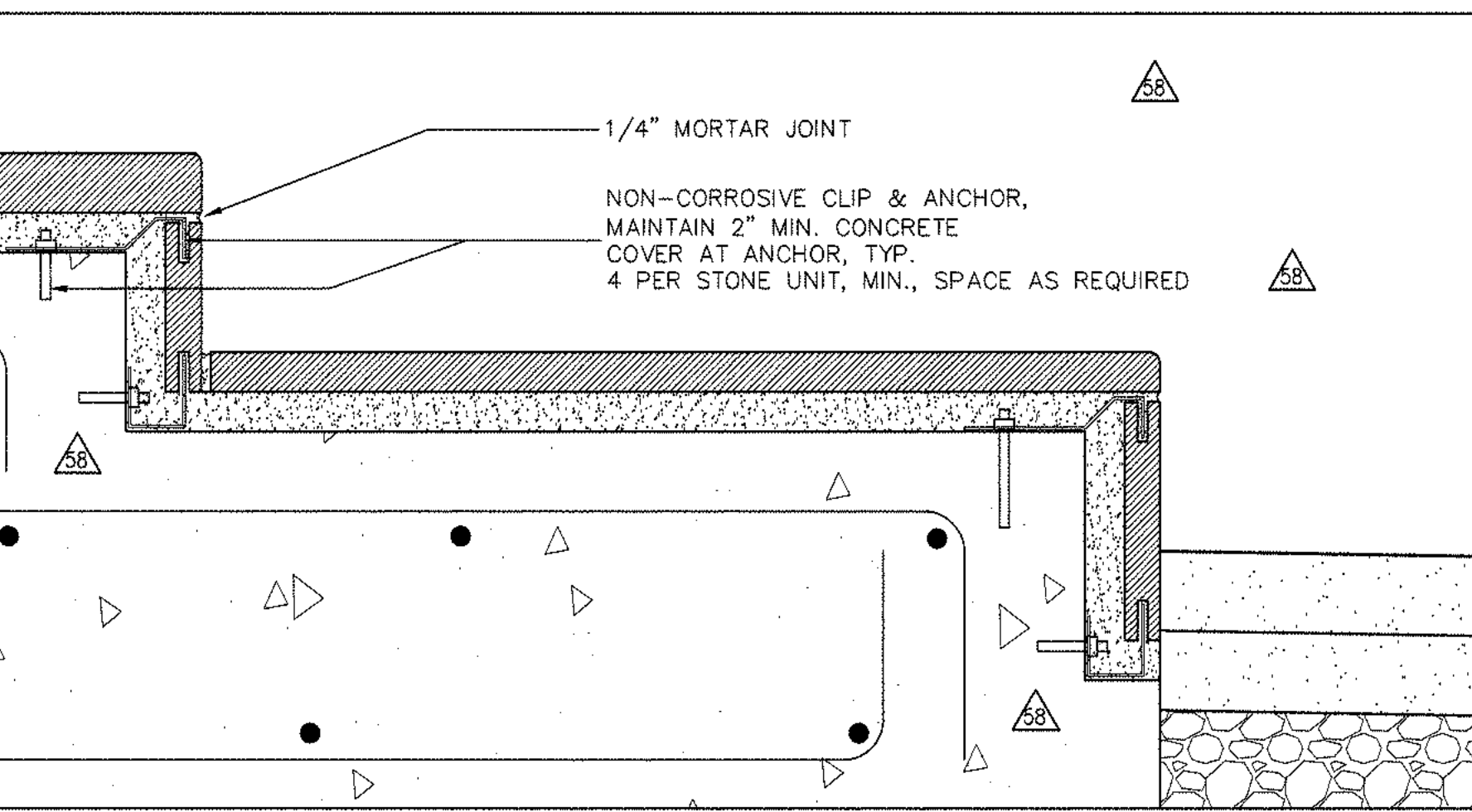
6 TYPE F CRUSHED STONE SECTION

SCALE: 1"=1'-0"



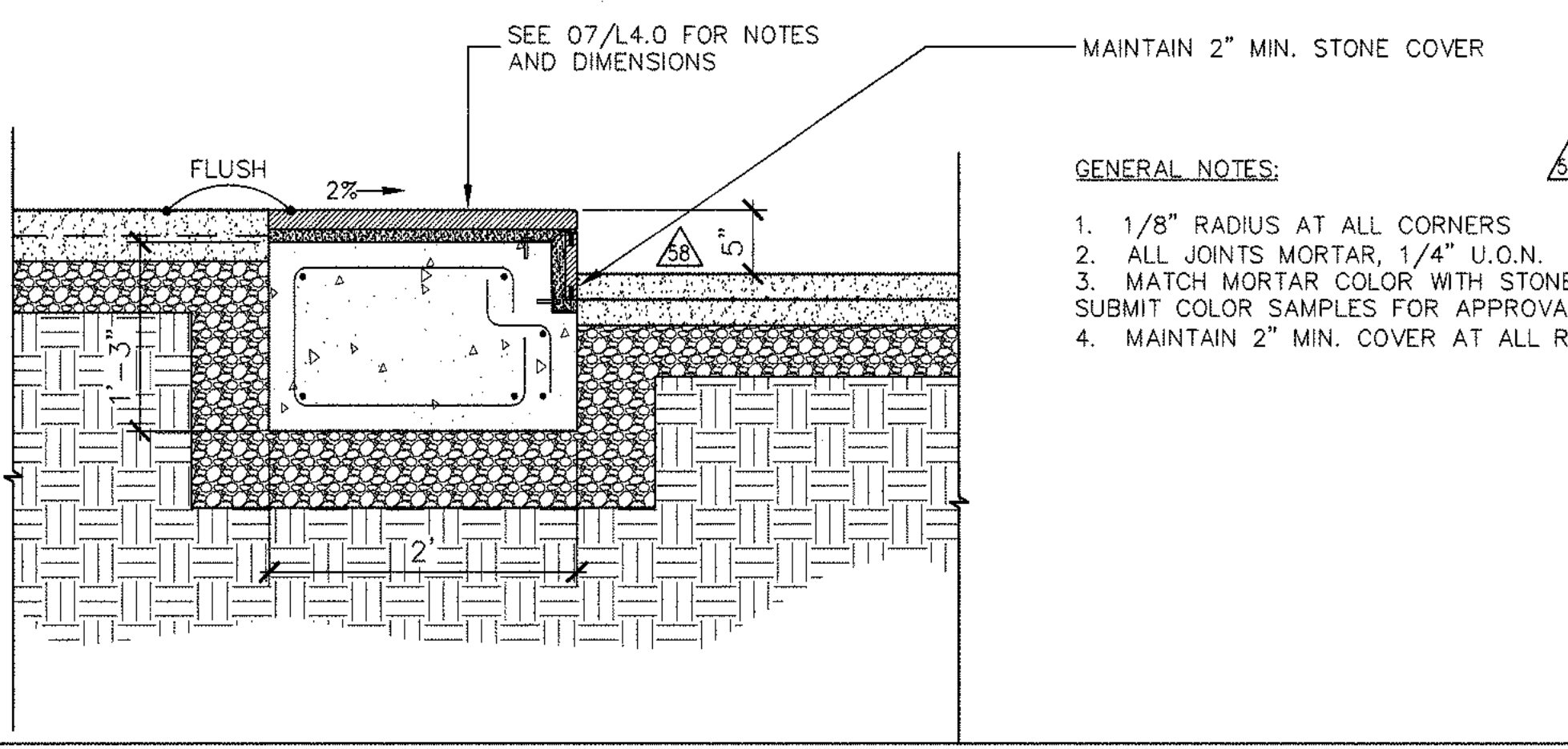
7 TERRACE - 2 STEP CONDITION SECTION

SCALE: 1"=1'-0"



7.1 STONE CLIP AT TERRACE SECTION

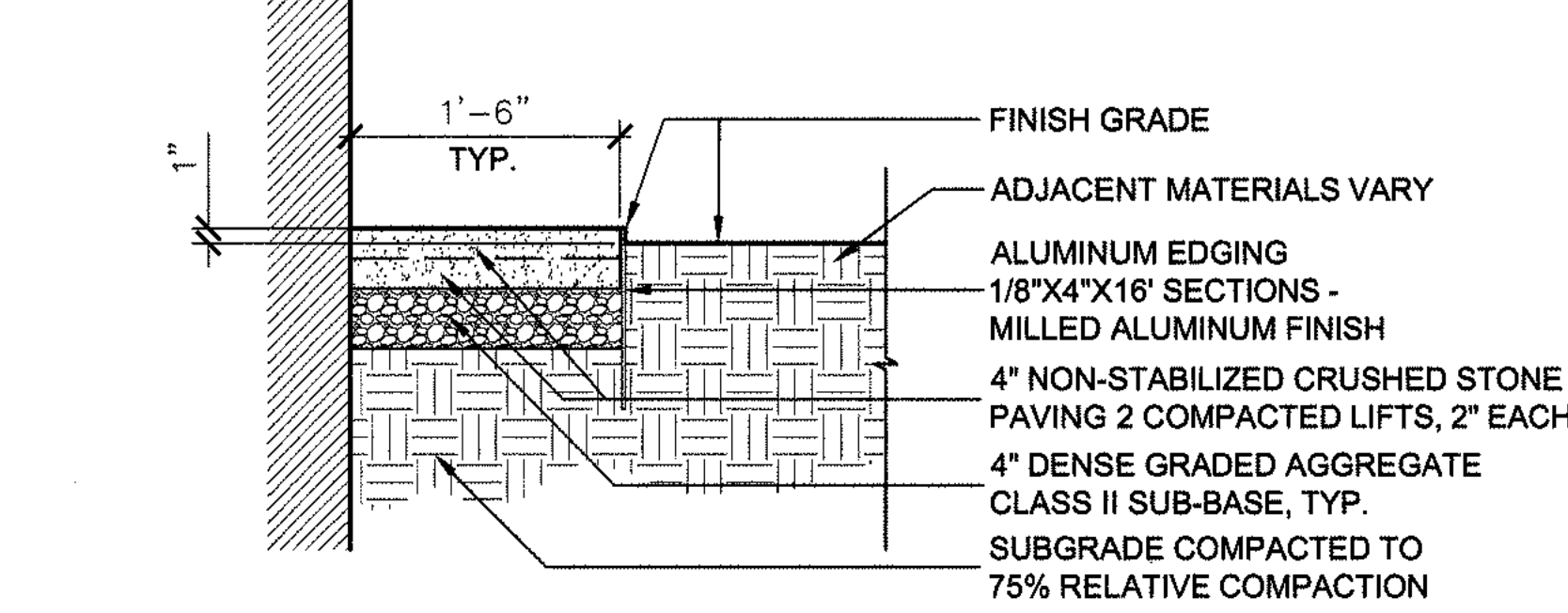
SCALE: 3"=1'-0"



7.2 TERRACE - 1 STEP CONDITION SECTION

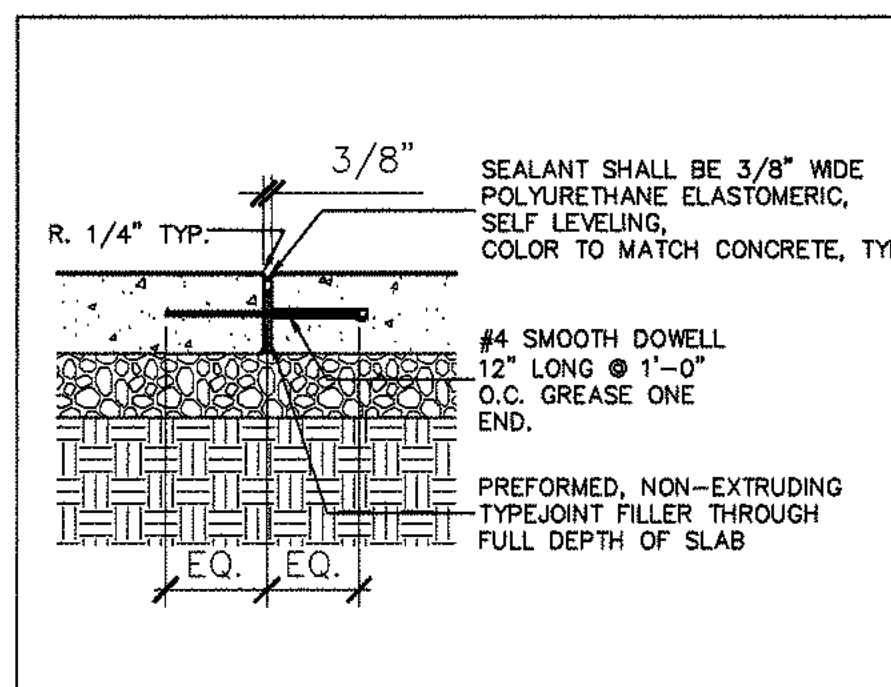
SCALE: 1"=1'-0"

NOTES:
1. SLOPE TO DRAIN AWAY FROM BUILDING, U.O.N. S.C.D. FOR GRADING



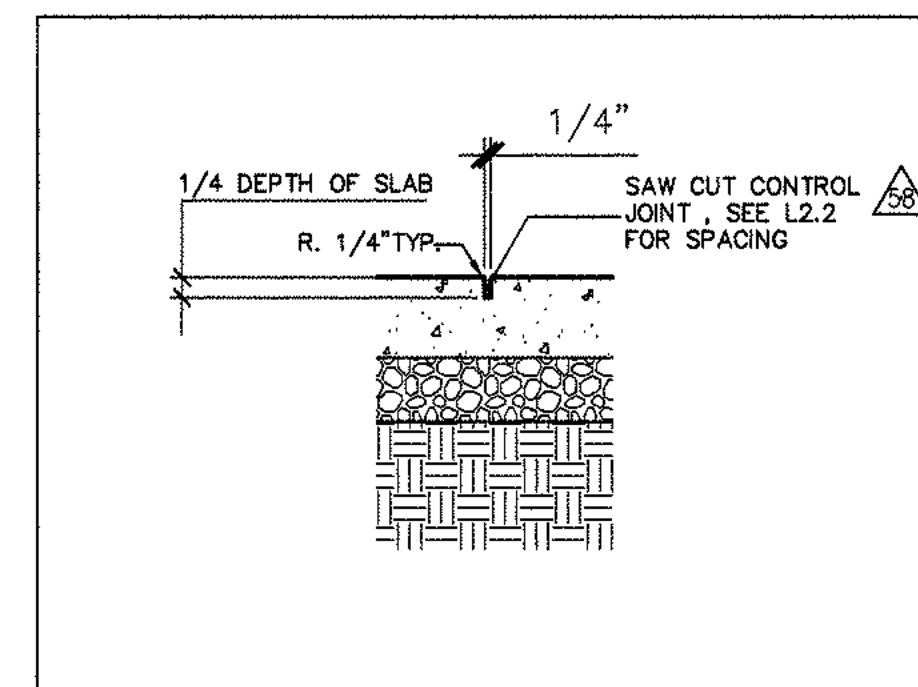
8 MOW STRIP SECTION

SCALE: 1"=1'-0"



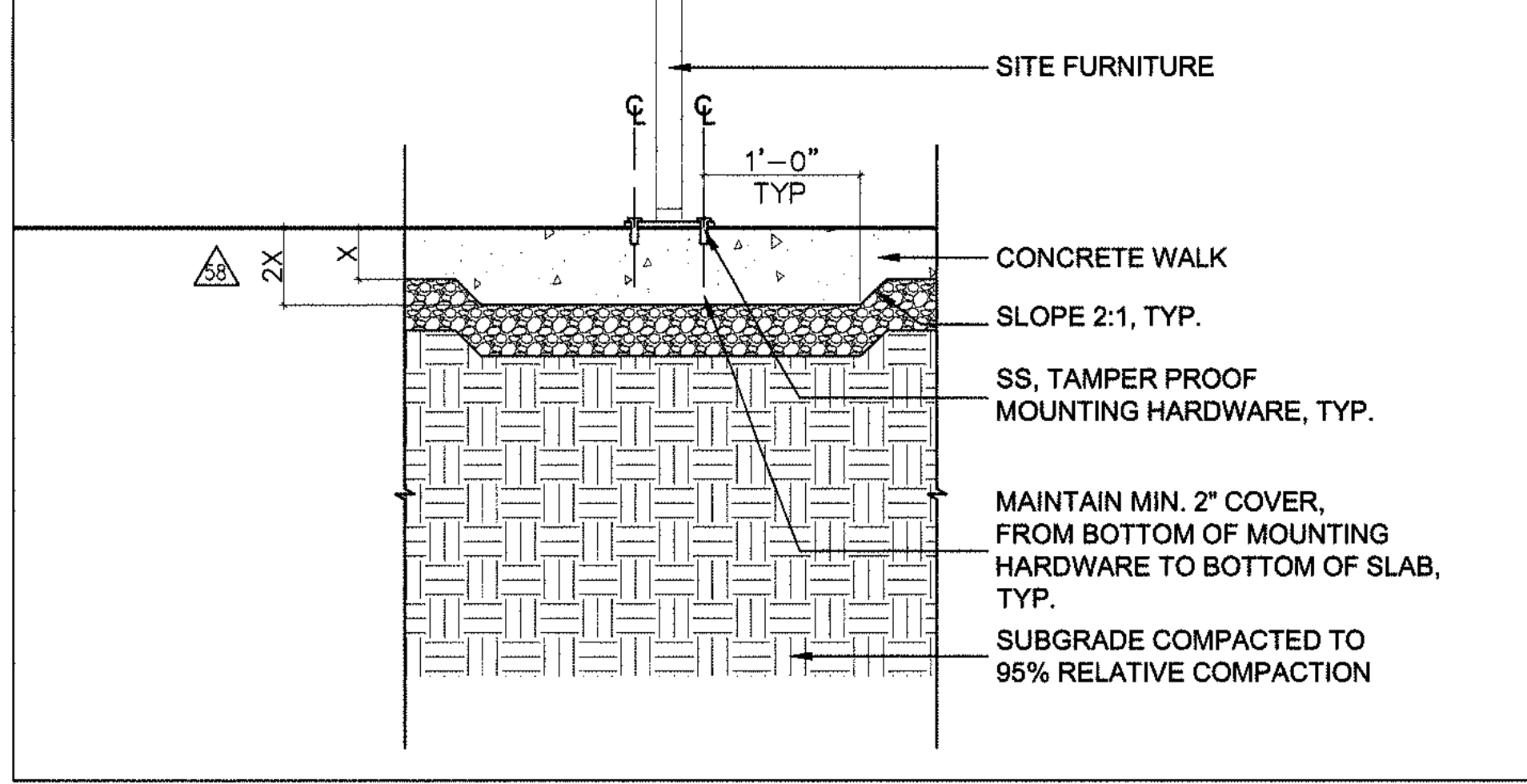
9 EXPANSION JOINT SECTION

SCALE: 1"=1'-0"



10 CONTROL JOINT SECTION

SCALE: 1"=1'-0"



11 THICKENED SLAB - SURFACE MOUNTED SITE FURNITURE SECTION

SCALE: 1"=1'-0"

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Revisions	Date	Description
△	2004.03.18	CCD033
△	2004.05.06	CCD056
△	2004.05.21	CCD056R1

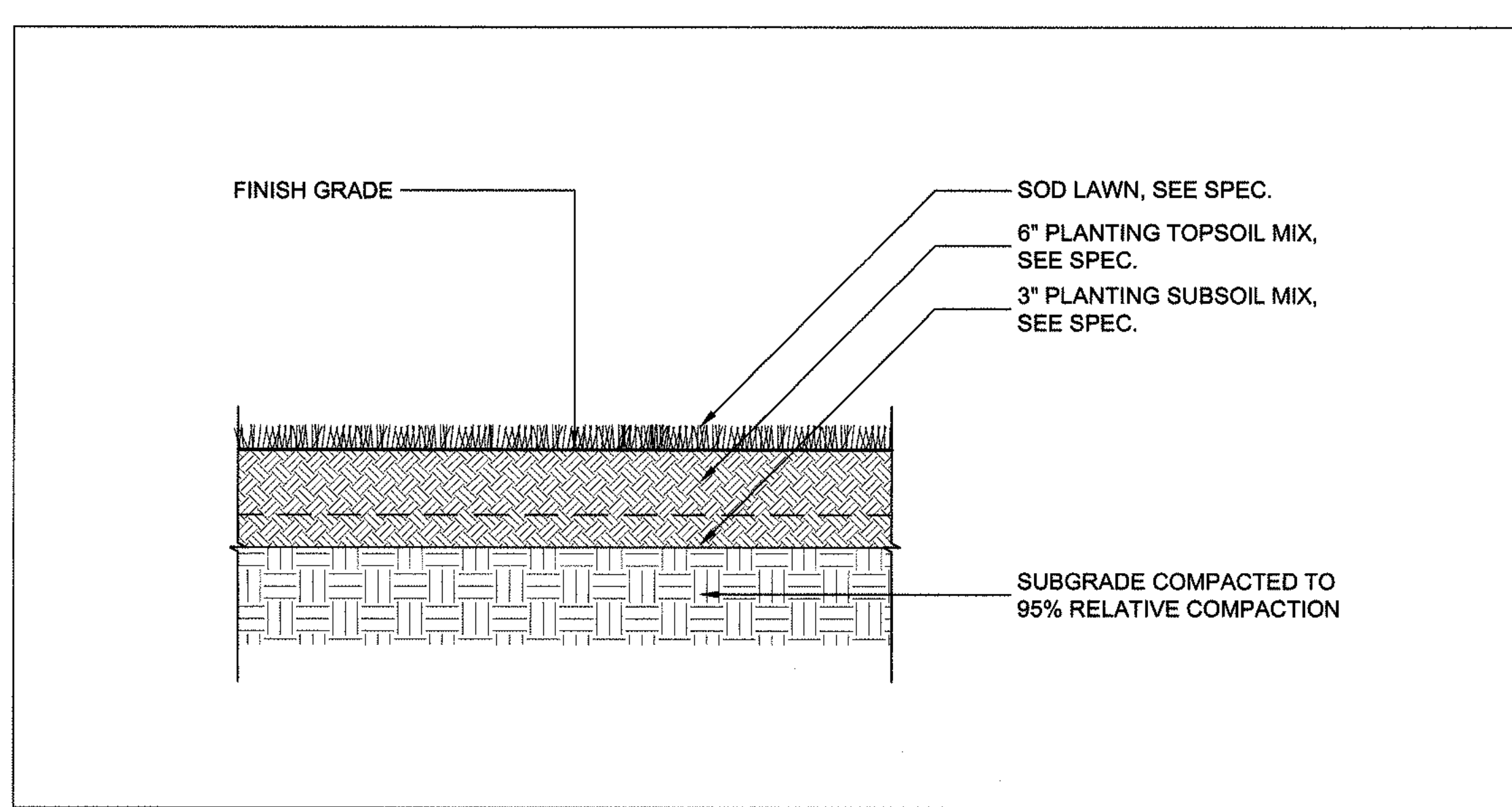
11-29-04 Updated Contract Documents

Stamp
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 Sheet Title

LANDSCAPE
 DETAIL
 HARDSCAPE

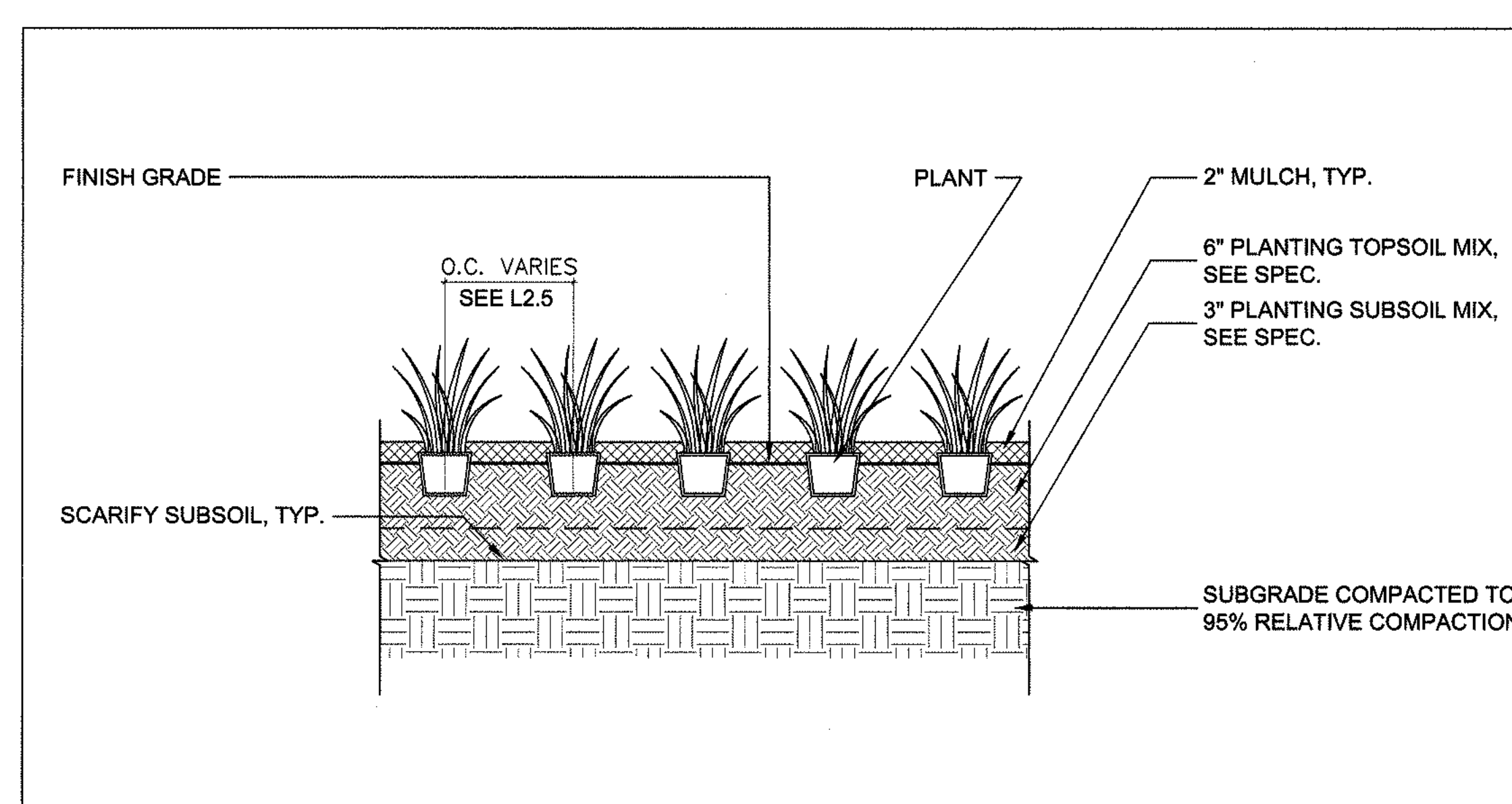
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 drawn by BU
 project number 2003.04.18
 sheet number 20114.00

L4.0



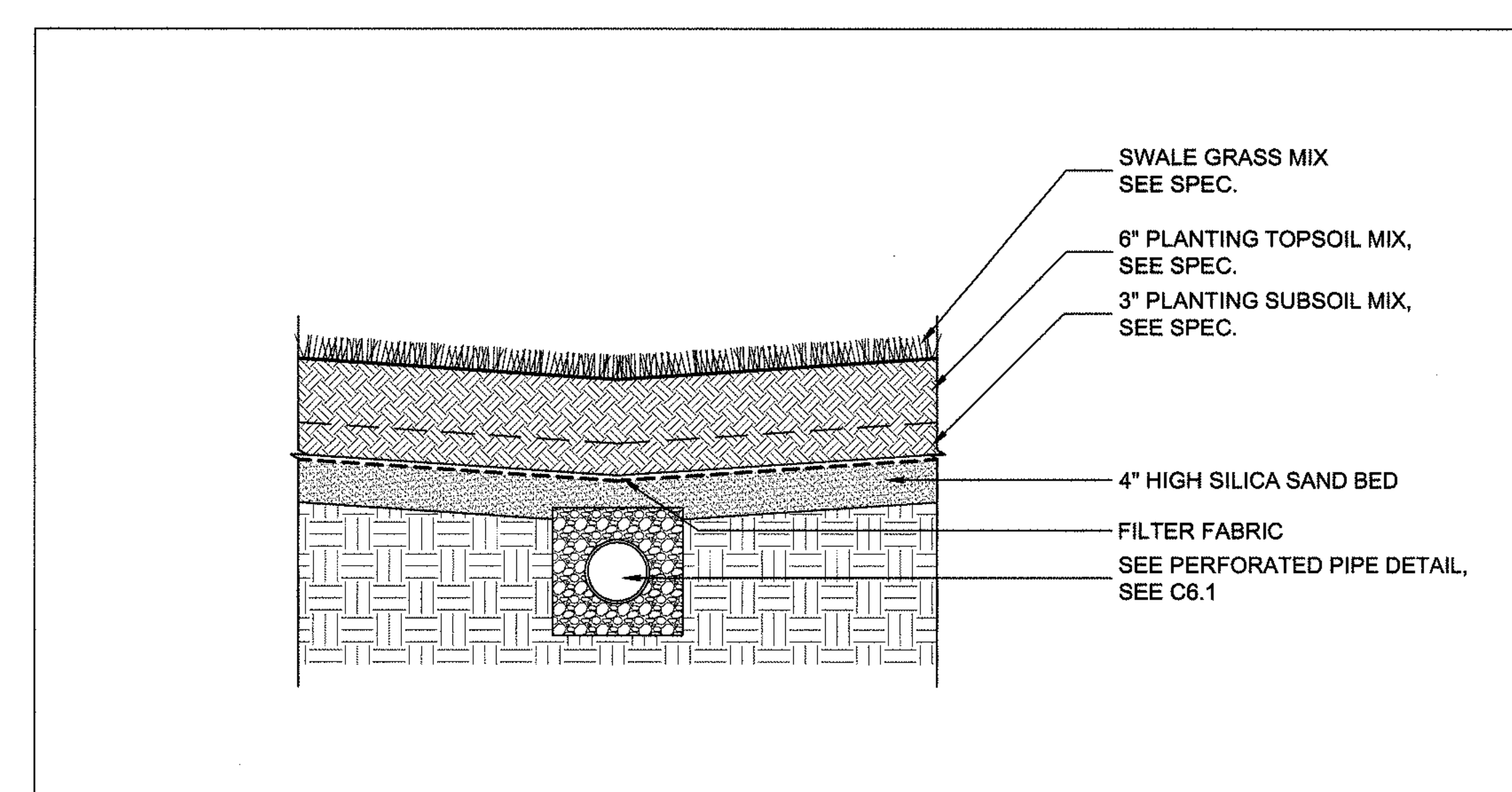
1 SOD LAWN SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



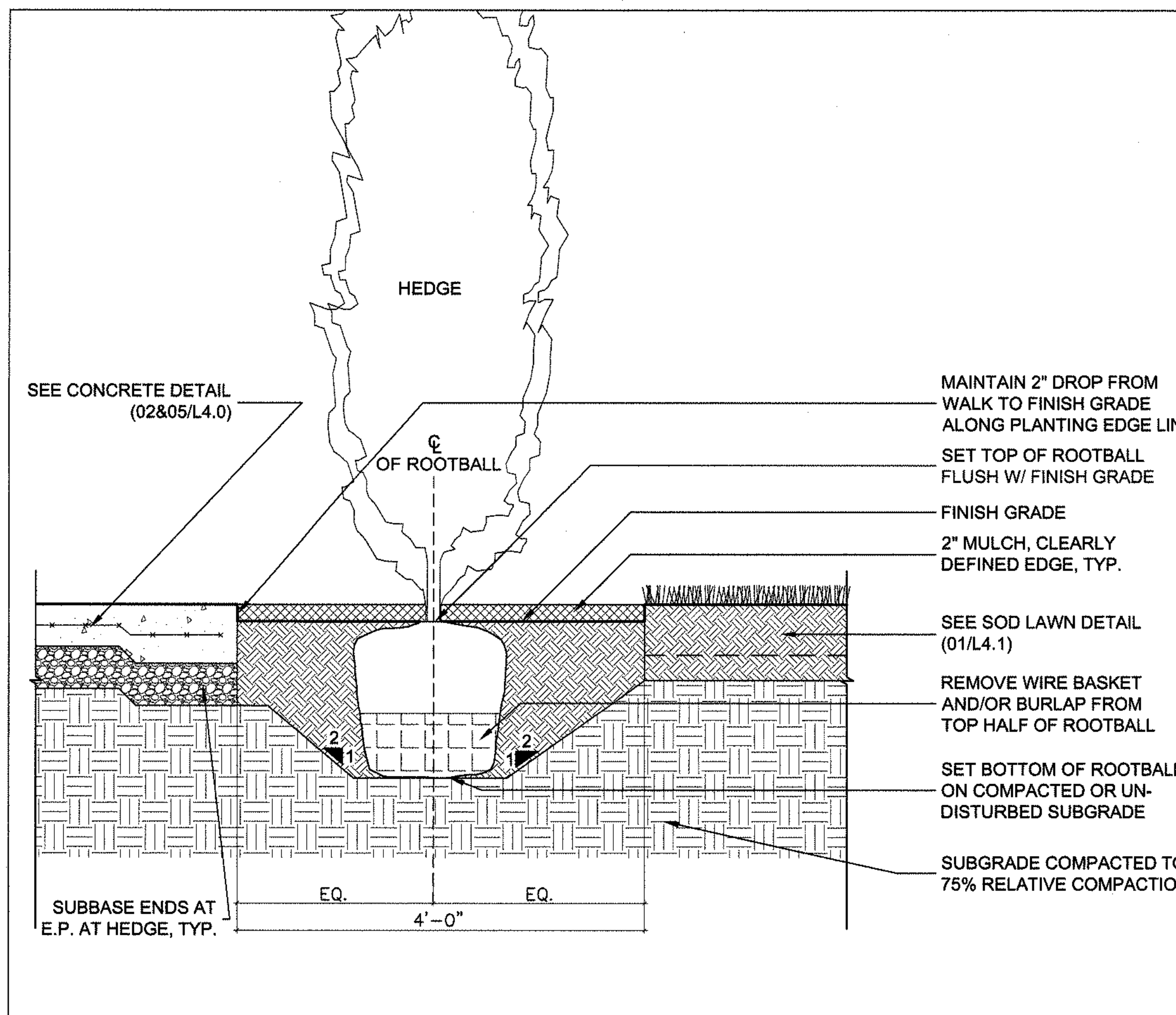
2 TYP. GROUNDCOVER/PERENNIAL PLANTING SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



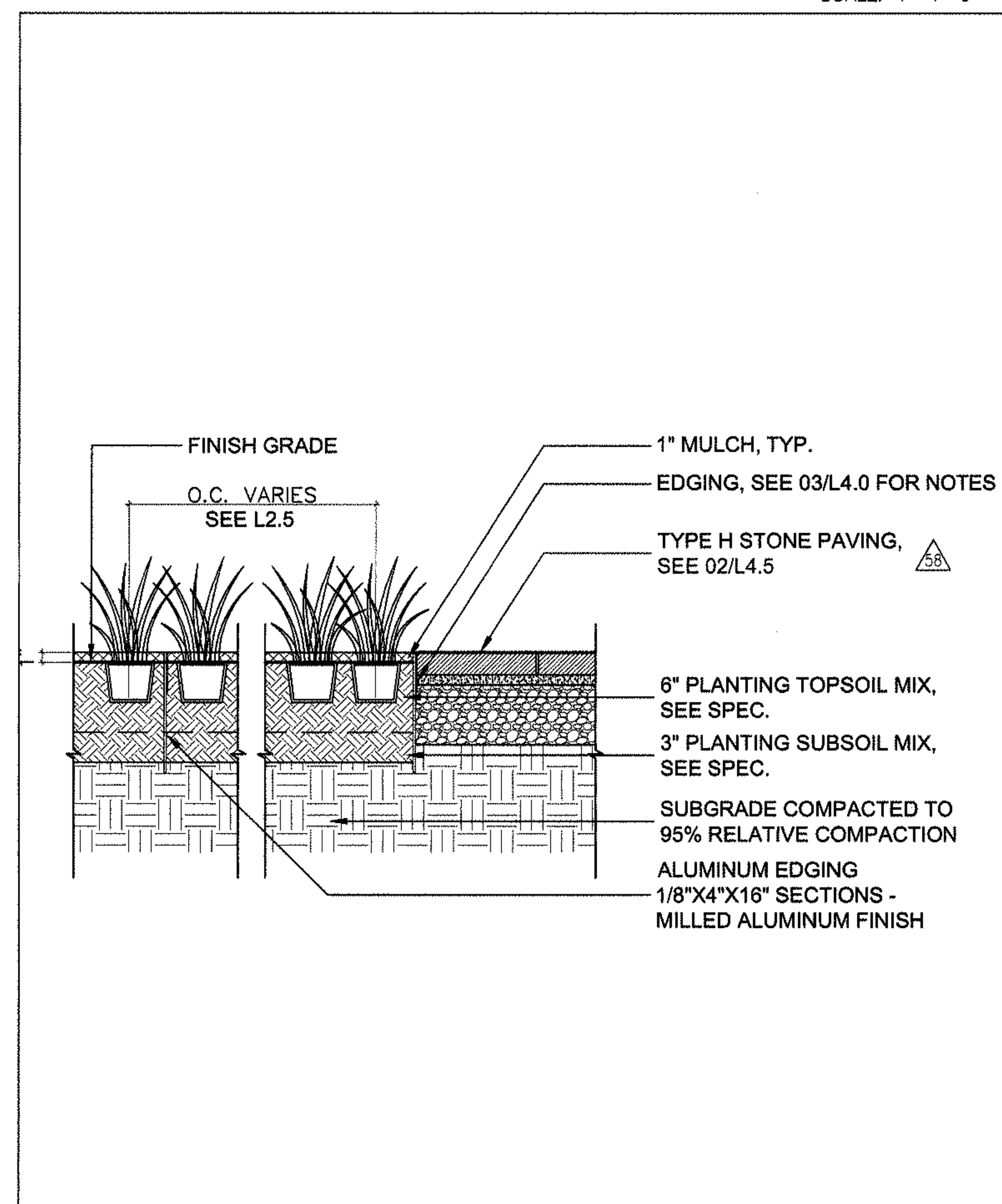
3 GRASSY SWALE SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



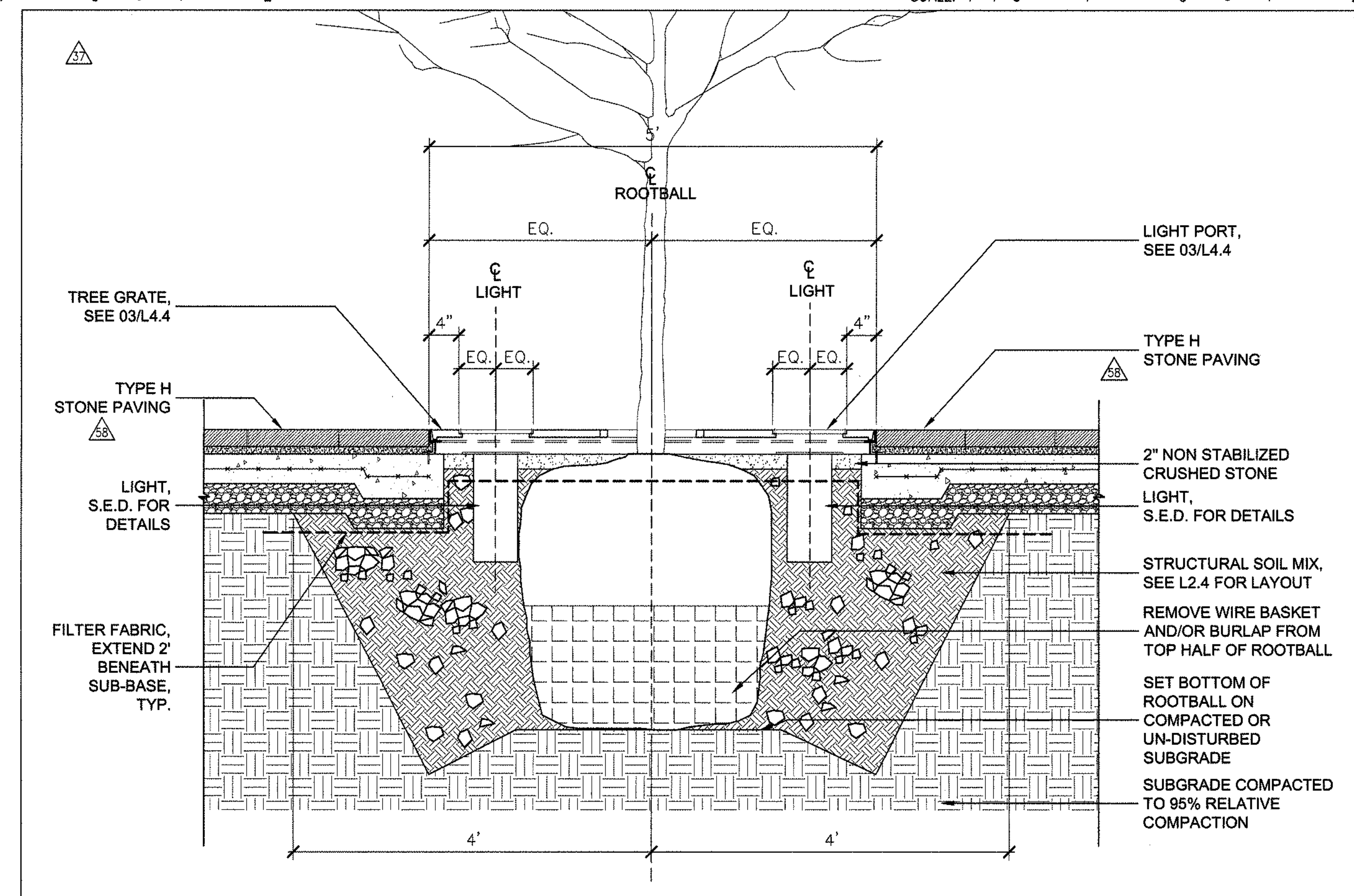
4 HEDGE SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



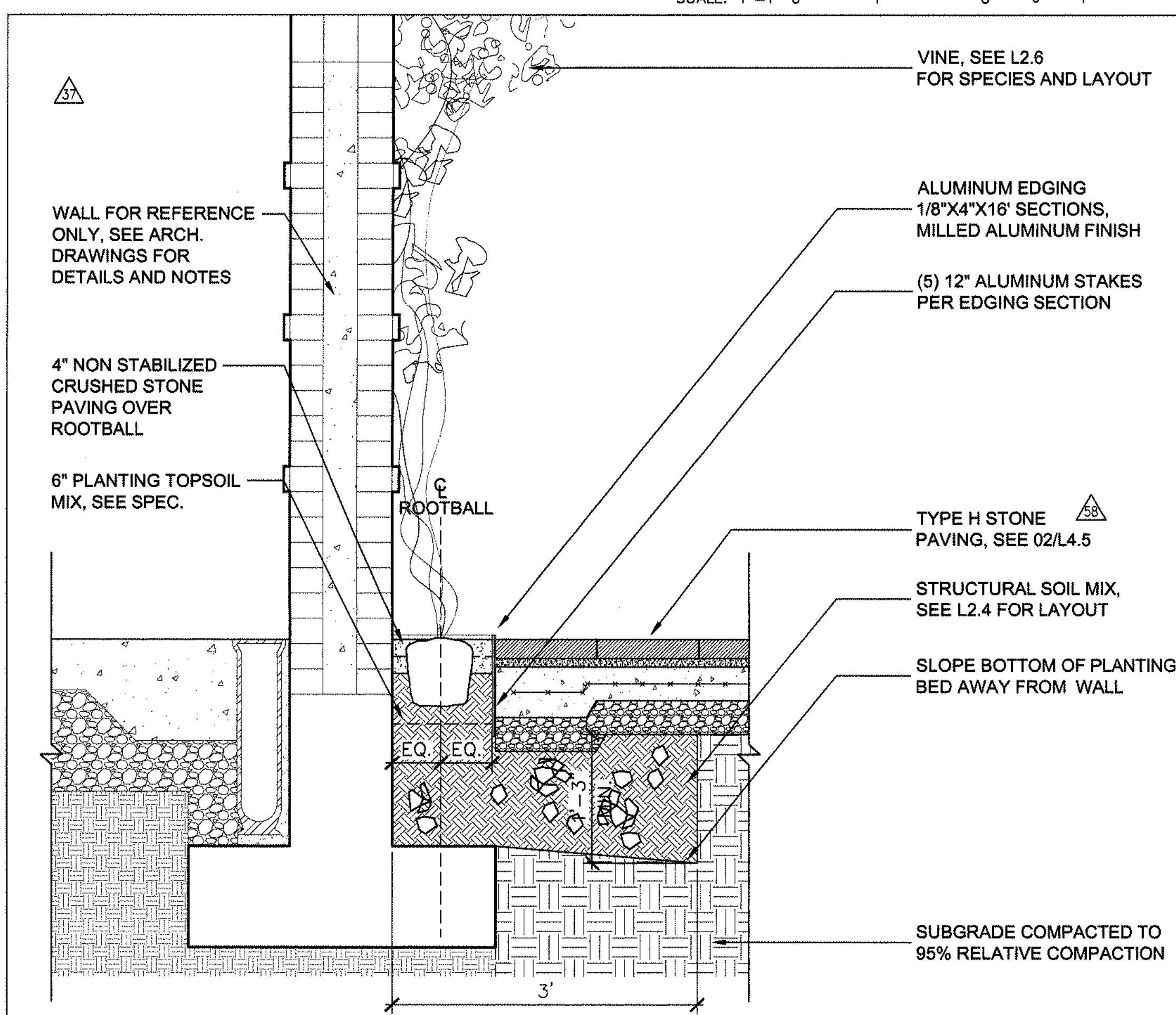
5 PERENNIAL PLANTING @ COURTYARD SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



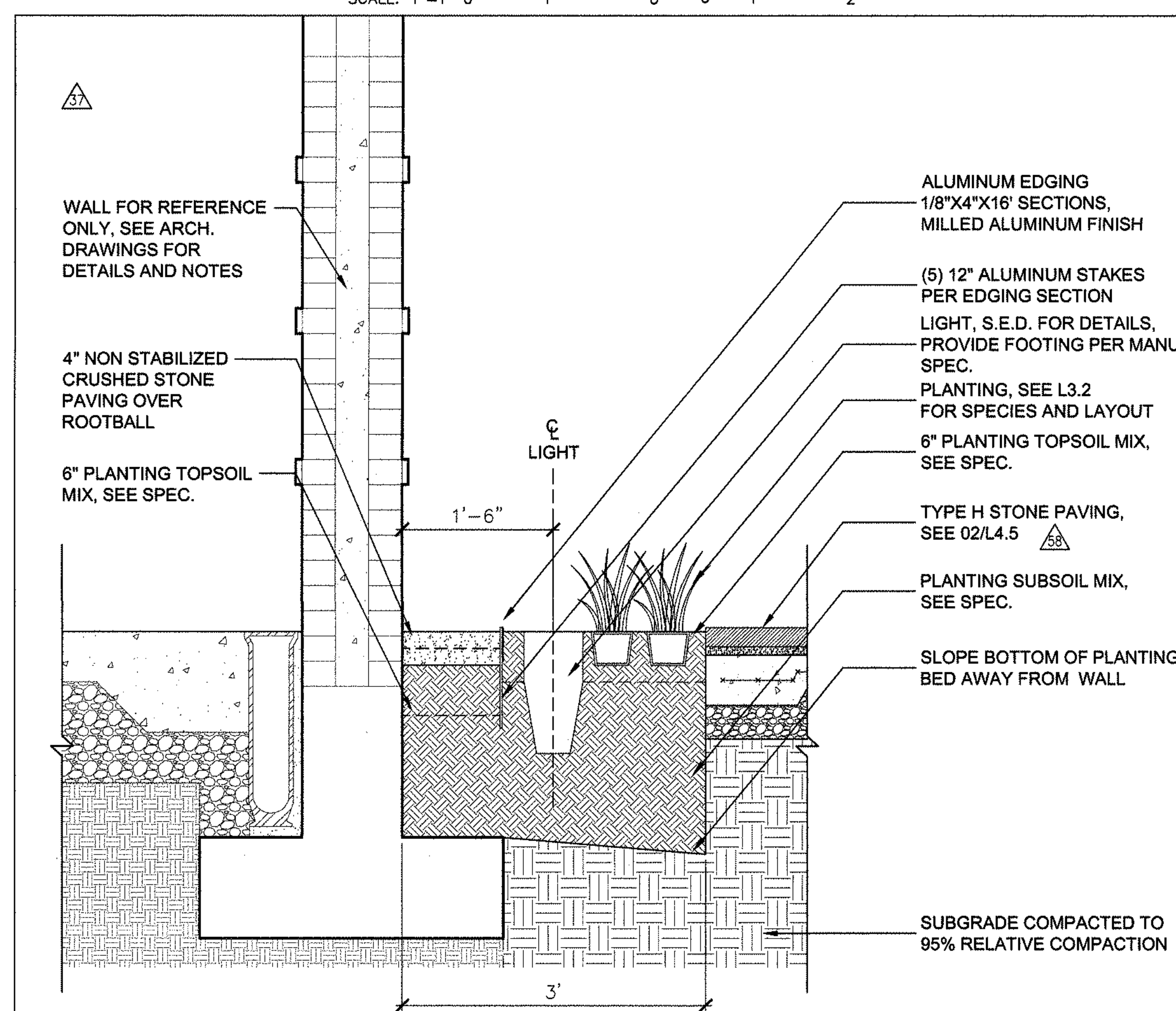
6 TREE @ TYPE 12A TREE GRATE SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



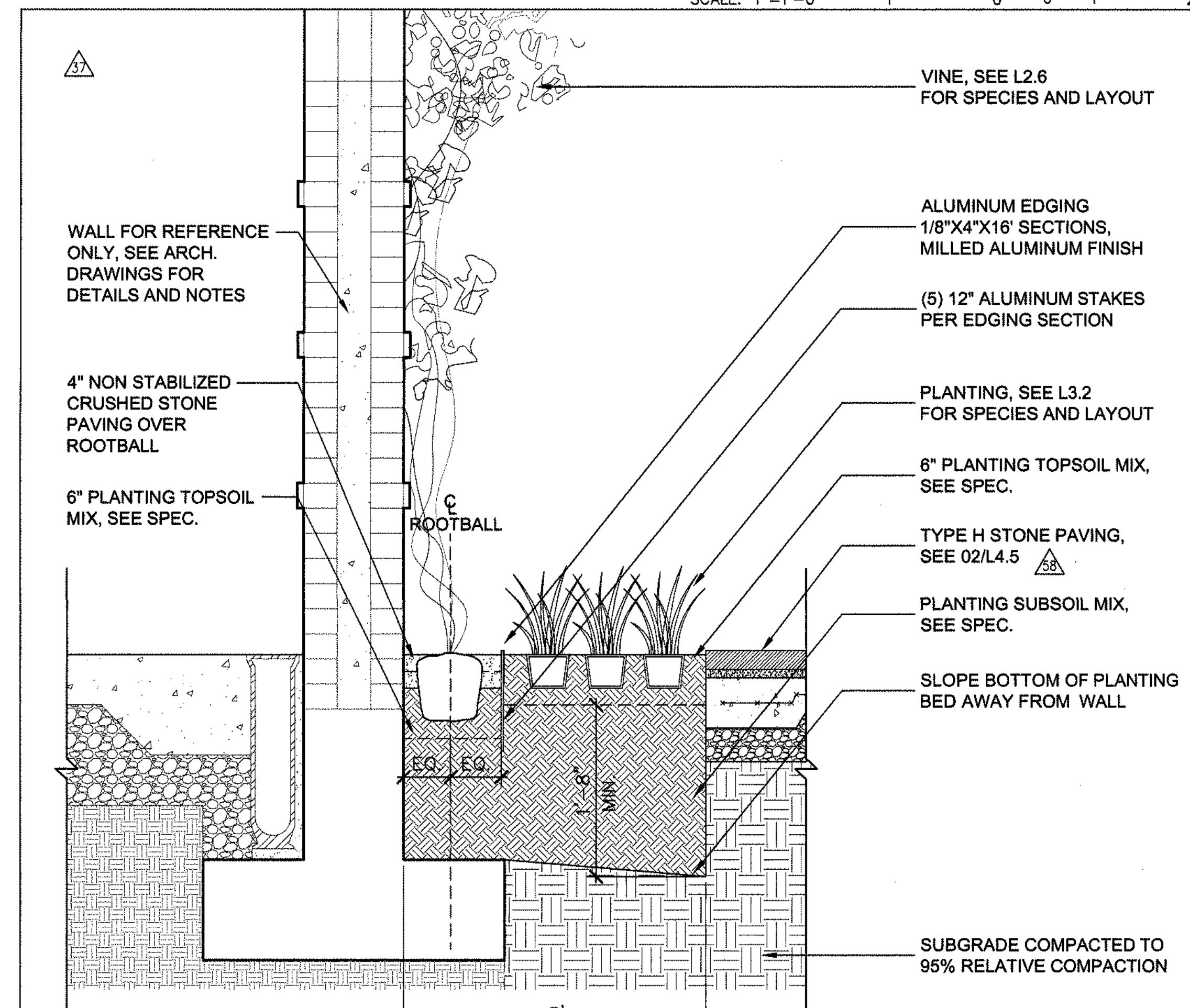
7 VINE POCKET @ PAVERS SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



8 LIGHT @ PERENNIAL PLANTING SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'



9 VINE @ PERENNIAL PLANTING SECTION

SCALE: 1"=1'-0" 1' 0" 6" 1' 2'

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 916 435 2410 F

Hargreaves
 Associates
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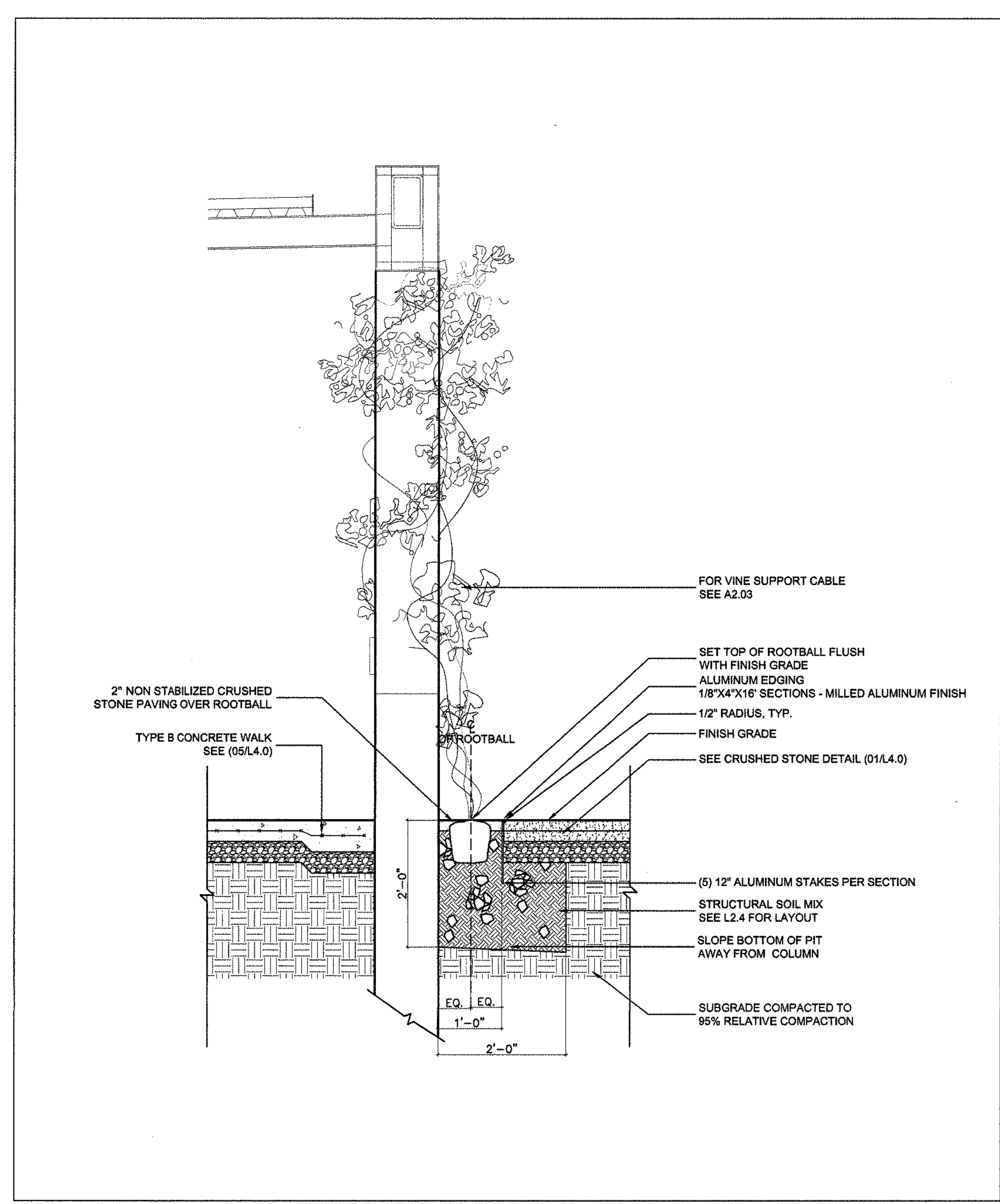
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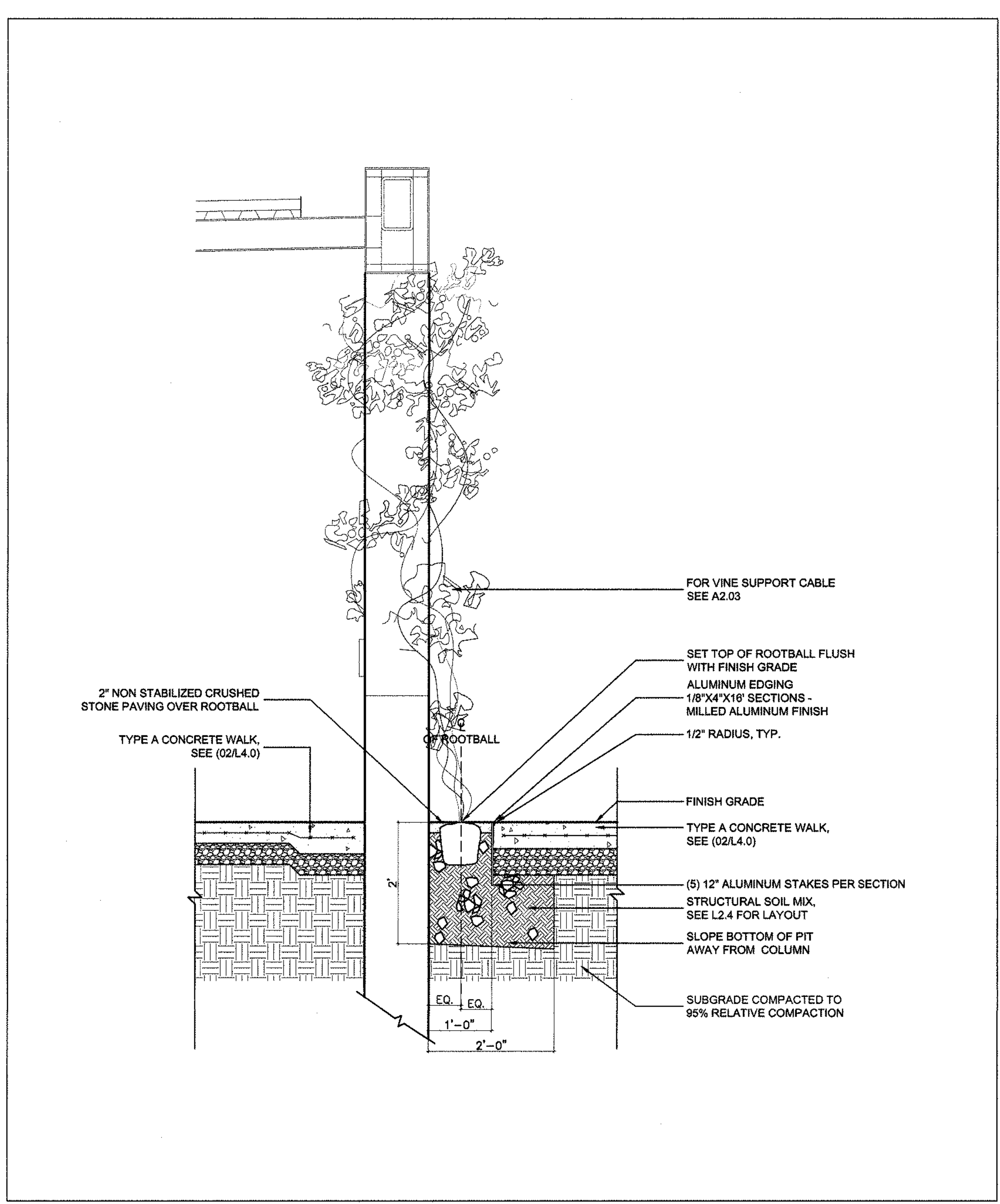
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LANDSCAPE
 DETAIL
 PLANTING-1

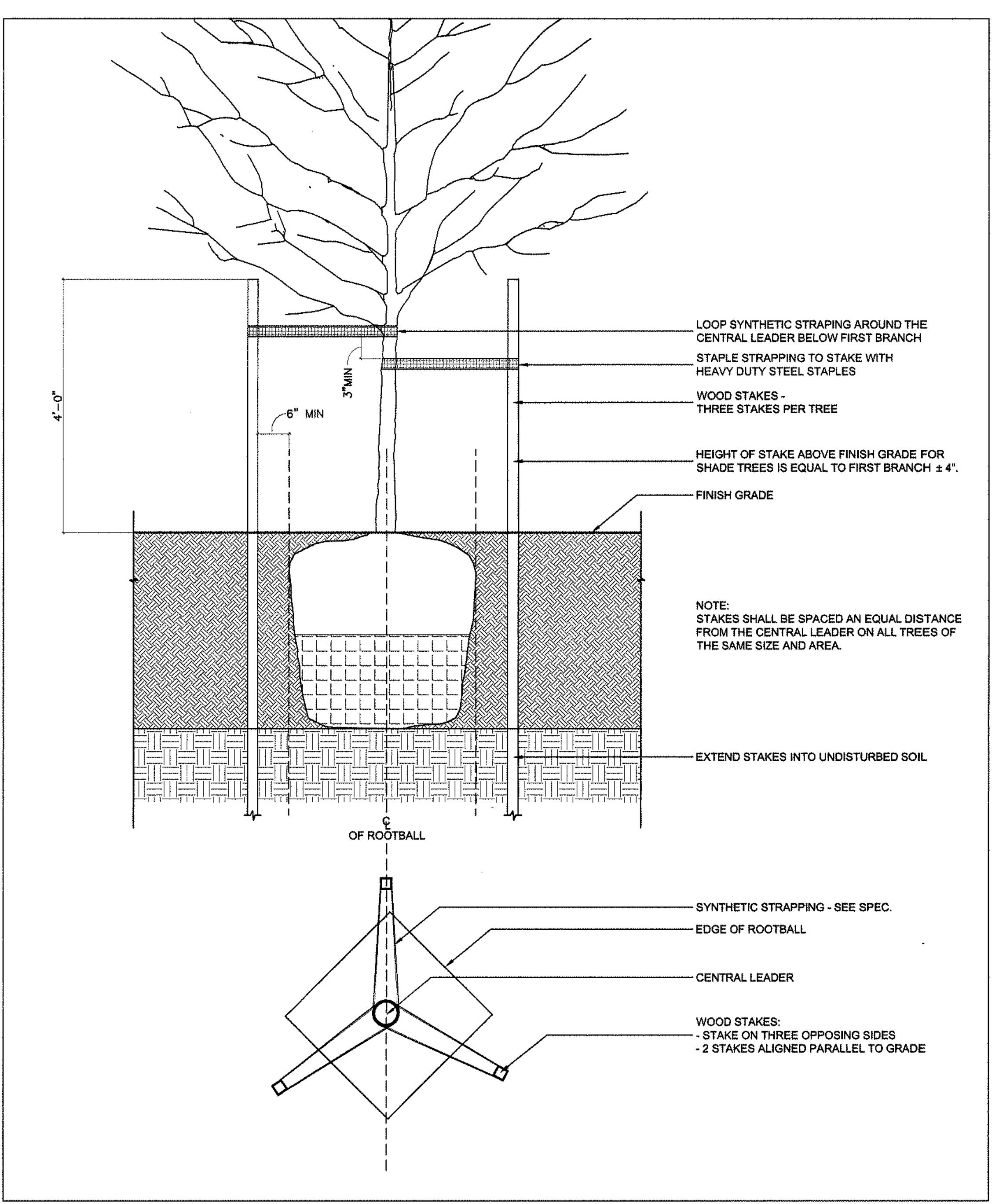
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 SHEET NUMBER: 14.1



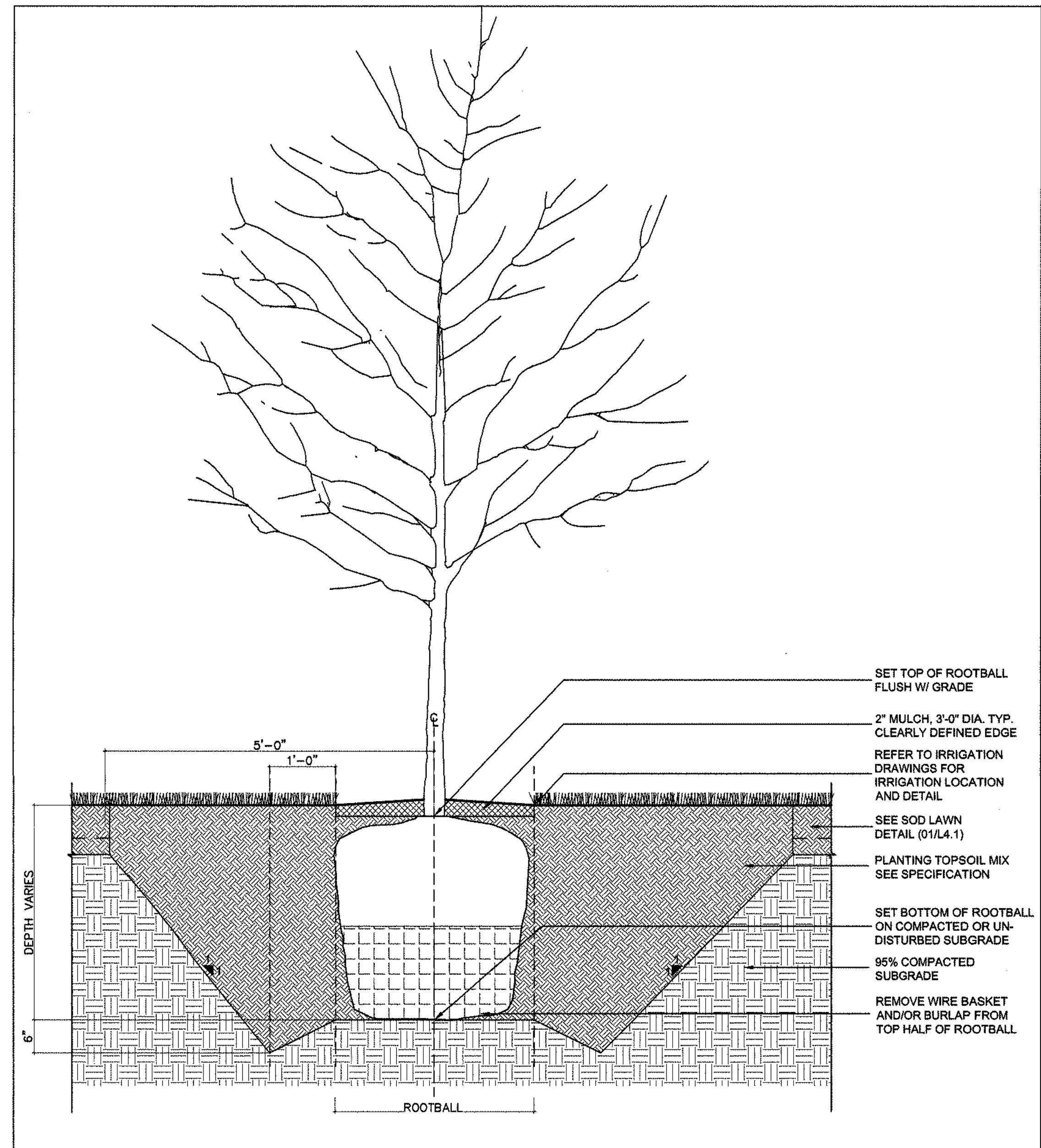
1 VINE POCKET ADJACENT TO CRUSHED STONE SECTION
SCALE: 3/4"=1'-0"



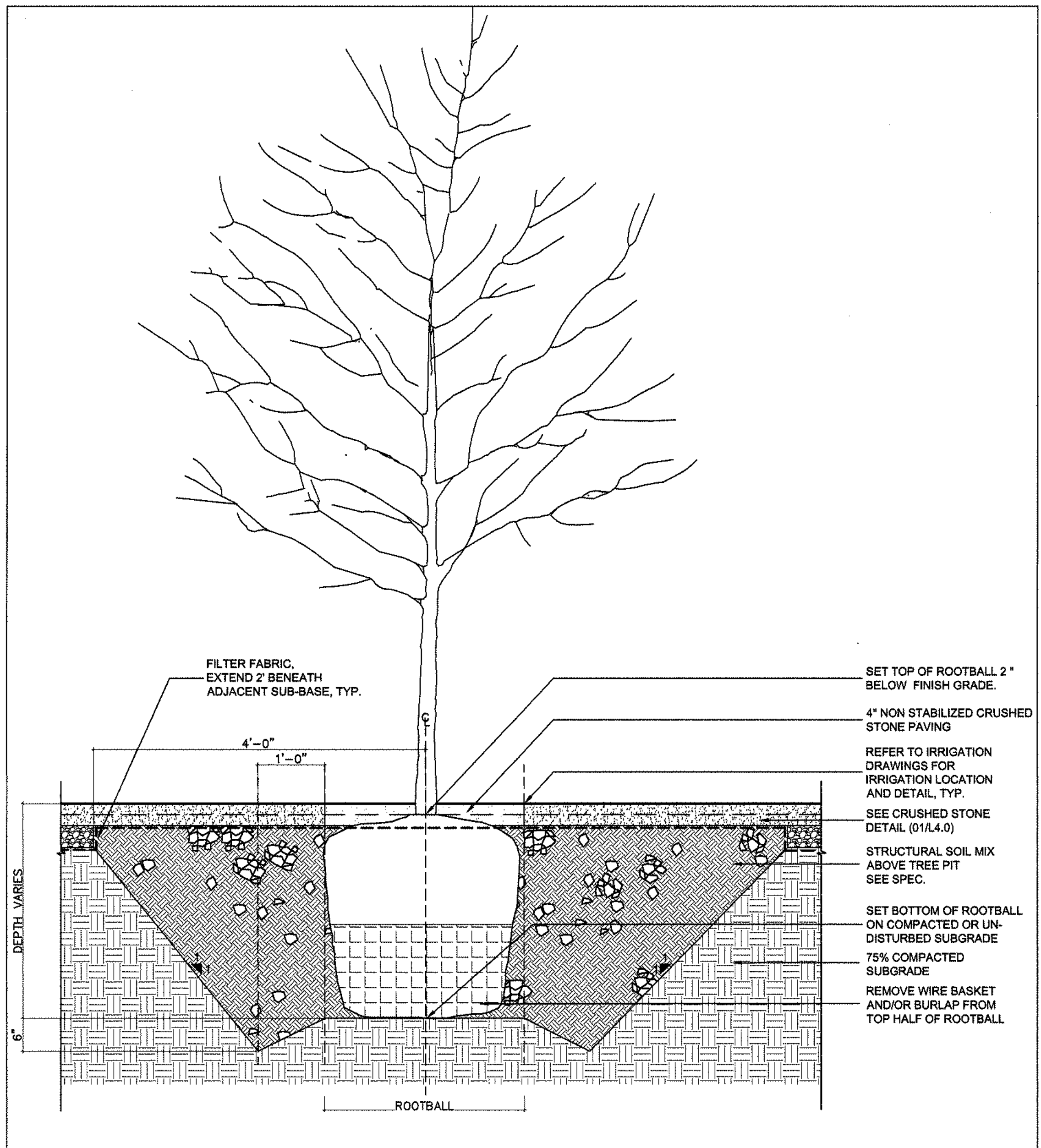
2 VINE POCKET ADJACENT TO CONCRETE SECTION
SCALE: 3/4"=1'-0"



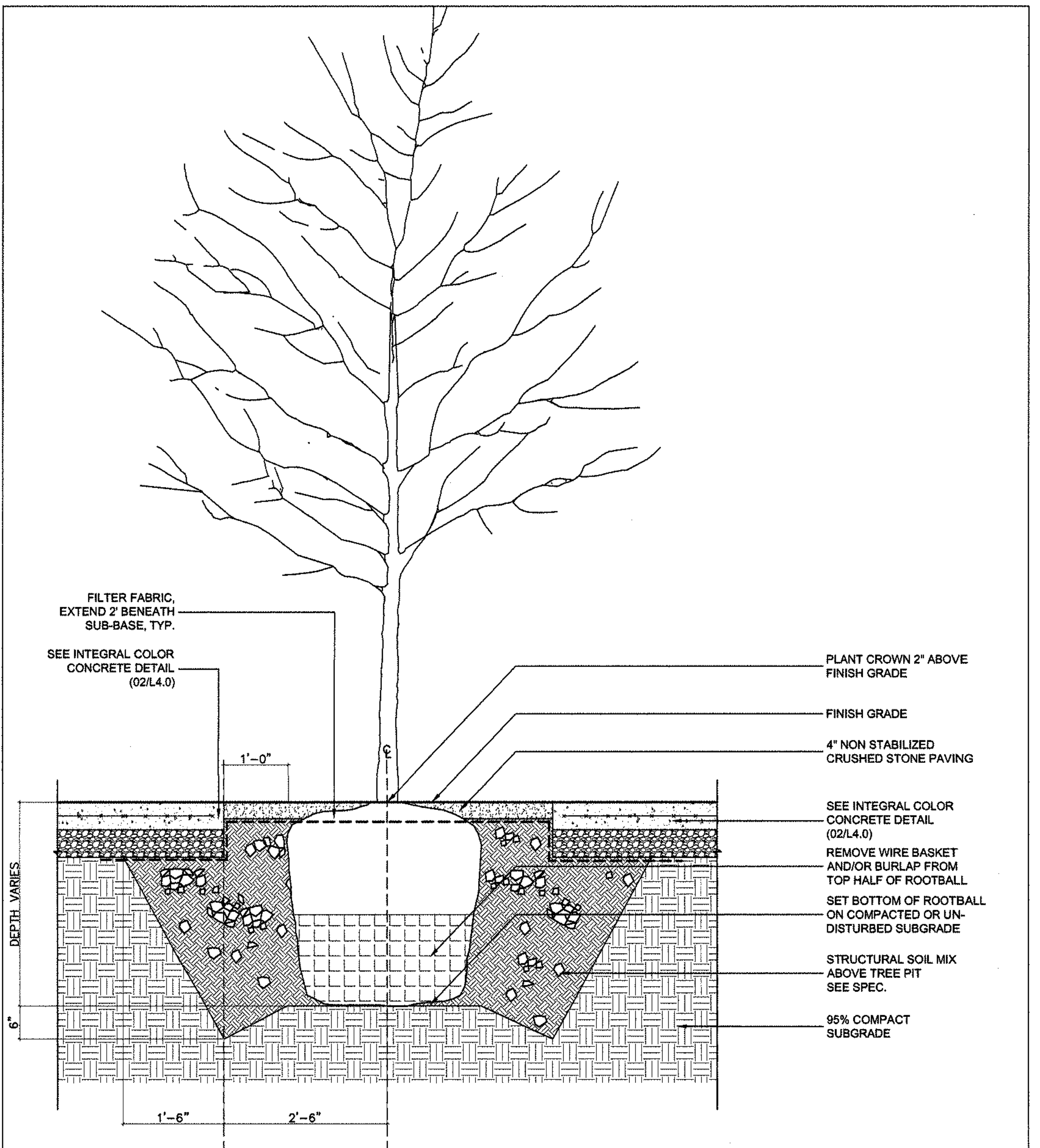
3 TYPICAL TREE STAKING SECTION
SCALE: 3/4"=1'-0"



4 TYPICAL TREE IN SOD LAWN SECTION
SCALE: 3/4"=1'-0"



5 TYPICAL TREE IN CRUSHED STONE SECTION
SCALE: 3/4"=1'-0"



5 TYPICAL TREE IN CRUSHED STONE PIT SECTION
SCALE: 3/4"=1'-0"

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Hargreaves Associates
2200 17th Street
San Francisco, CA 94103
415 865 1811 T
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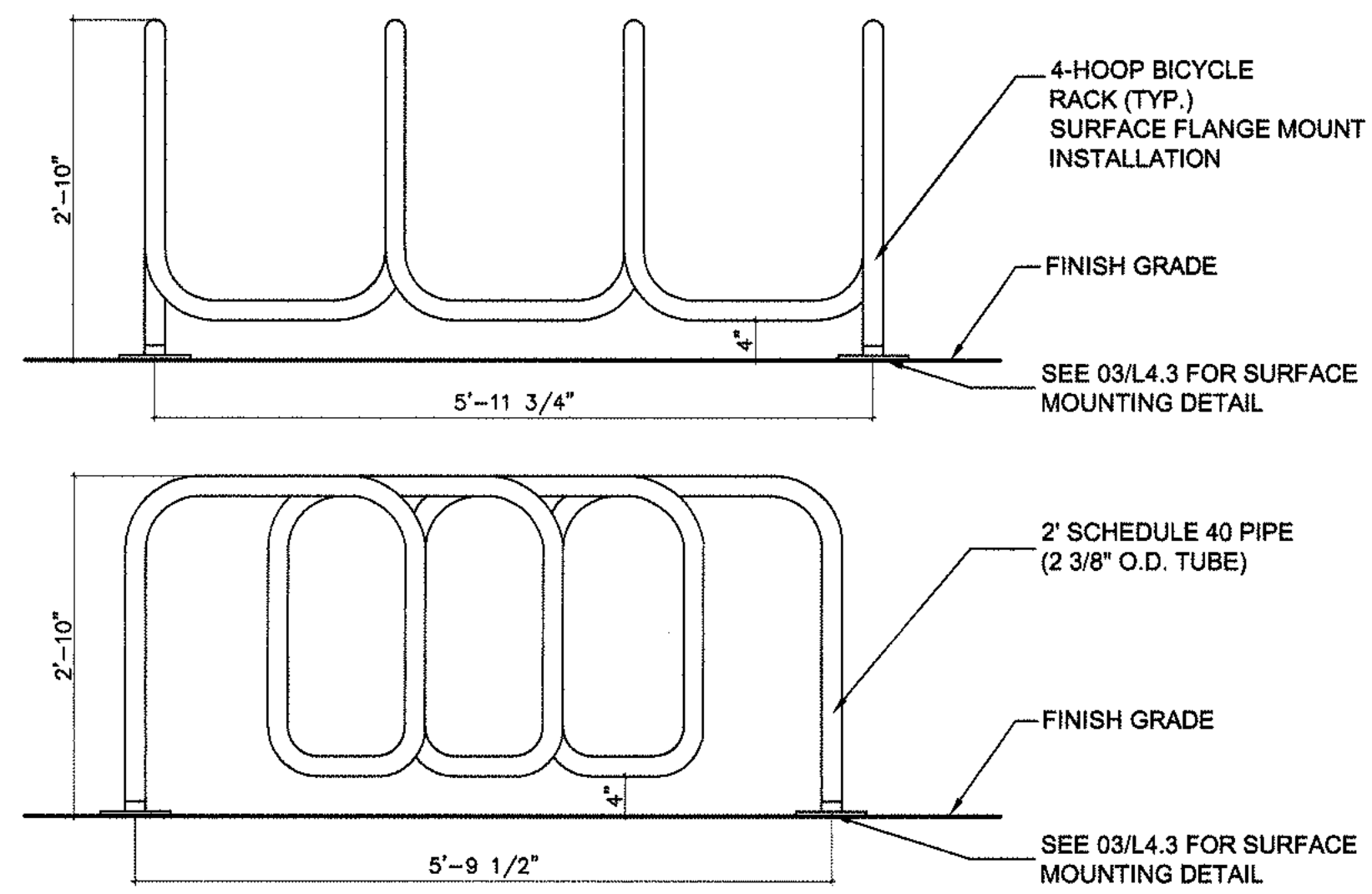
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BID SET

LANDSCAPE DETAIL PLANTING-2

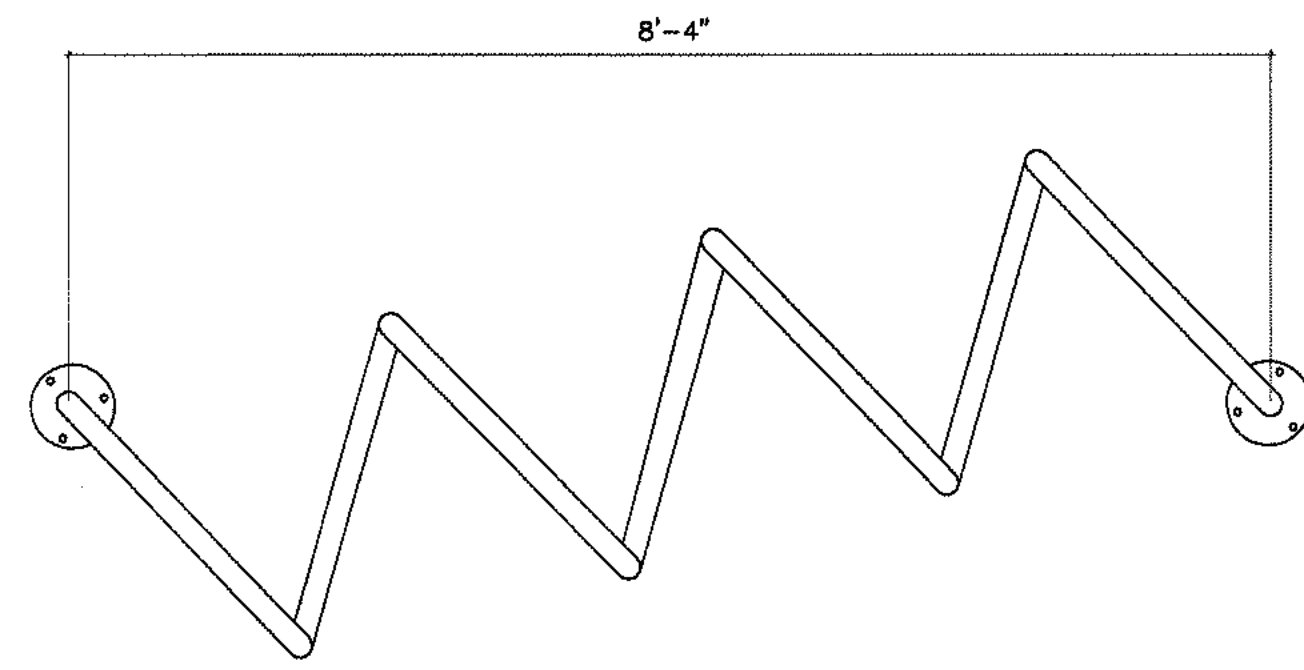
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sheet number

L4.2



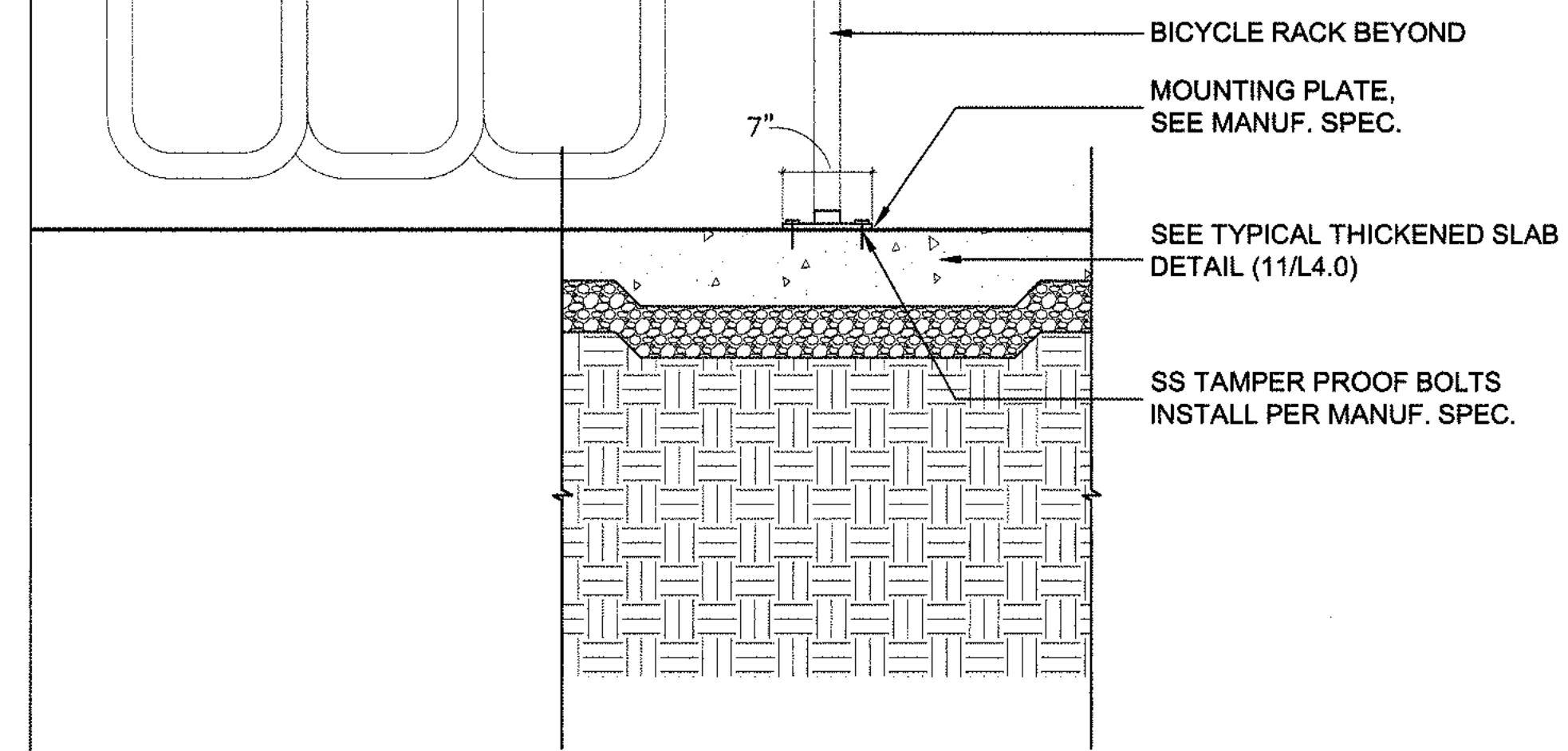
1 BICYCLE RACK ELEVATION

SCALE: 3/4"=1'-0"



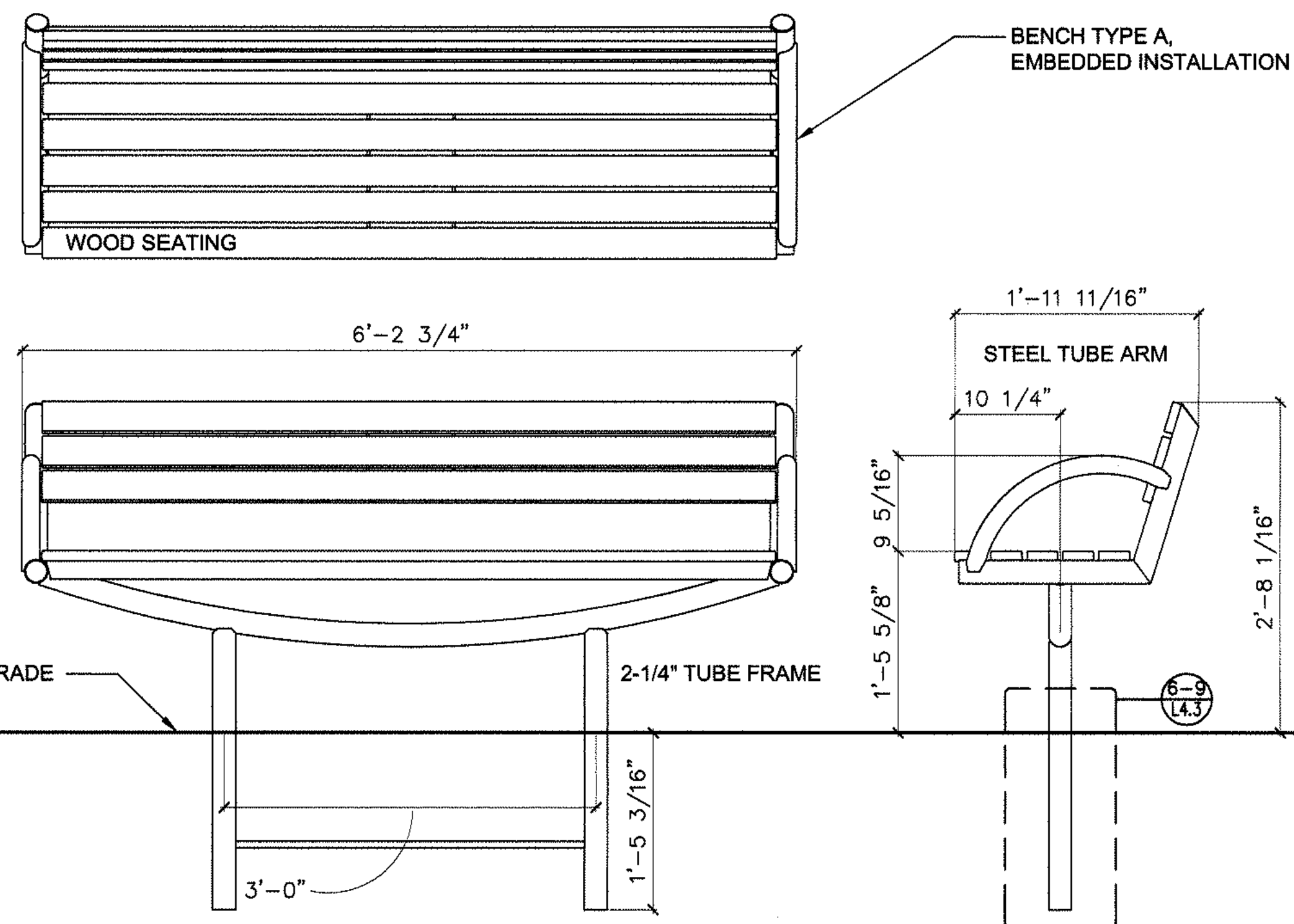
2 BICYCLE RACK PLAN

SCALE: 3/4"=1'-0"



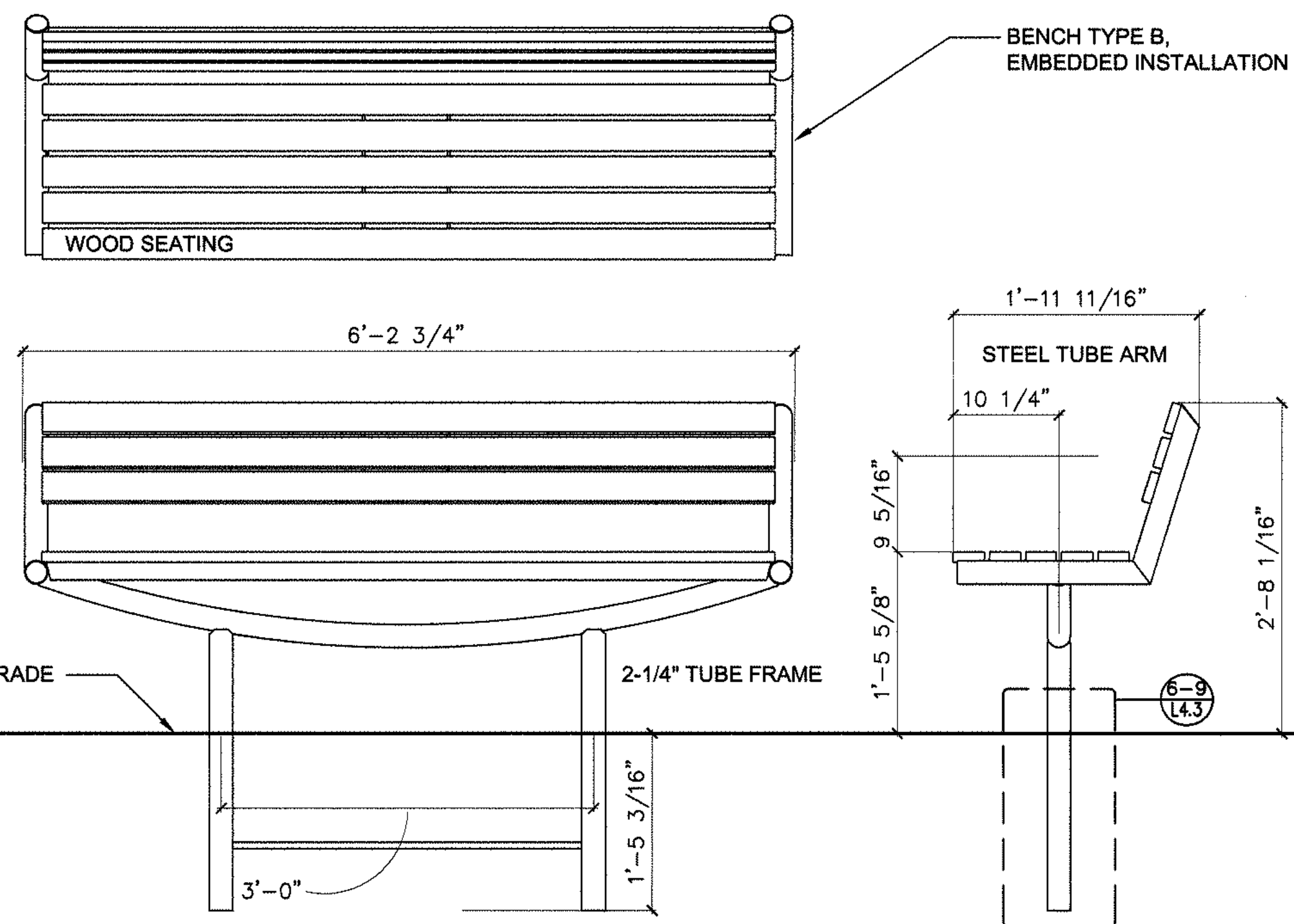
3 BICYCLE RACK - SURFACE MOUNTING SECTION

SCALE: 1"=1'-0"



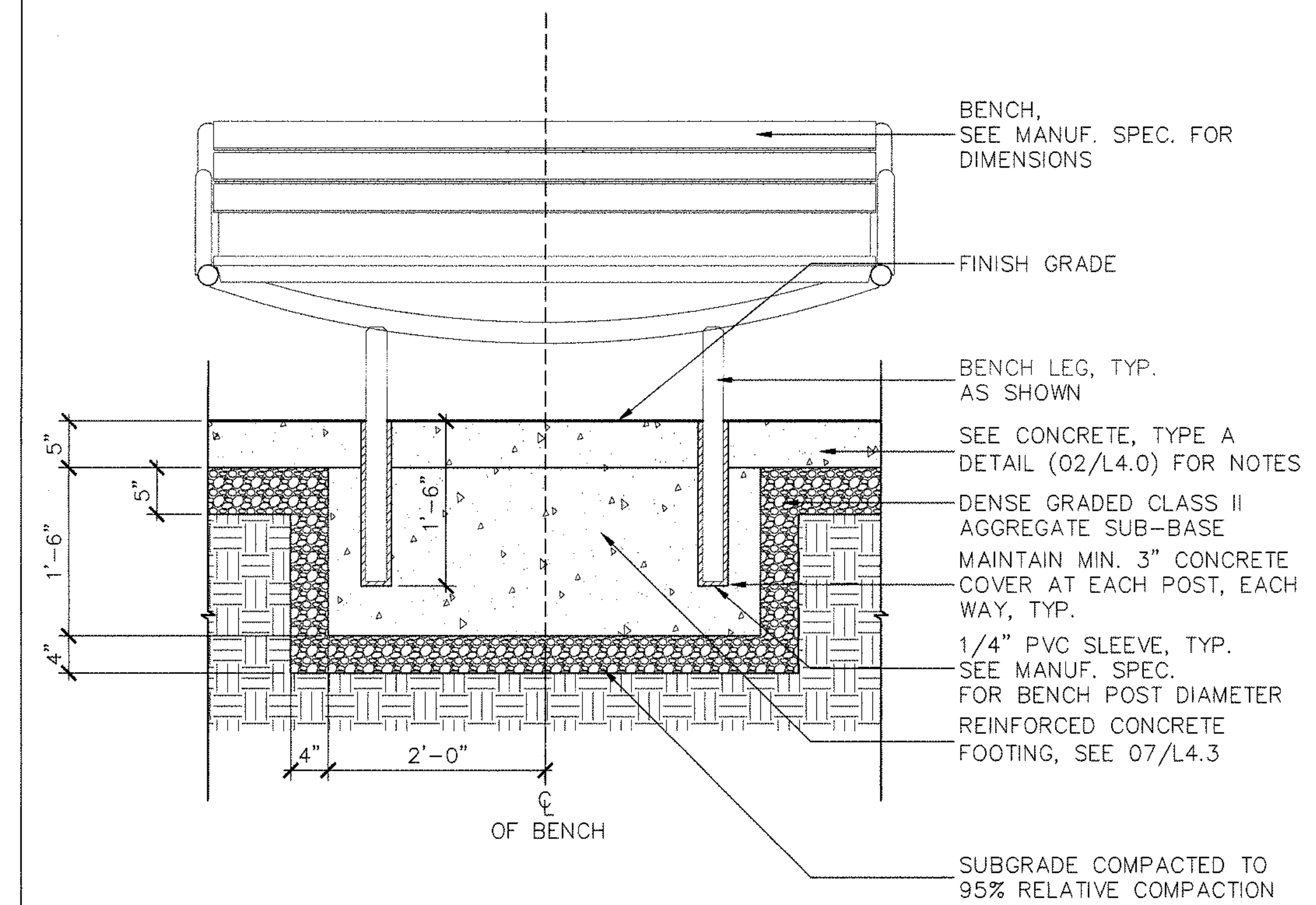
4 BENCH TYPE A SECTION - ELEVATION

SCALE: 1"=1'-0"



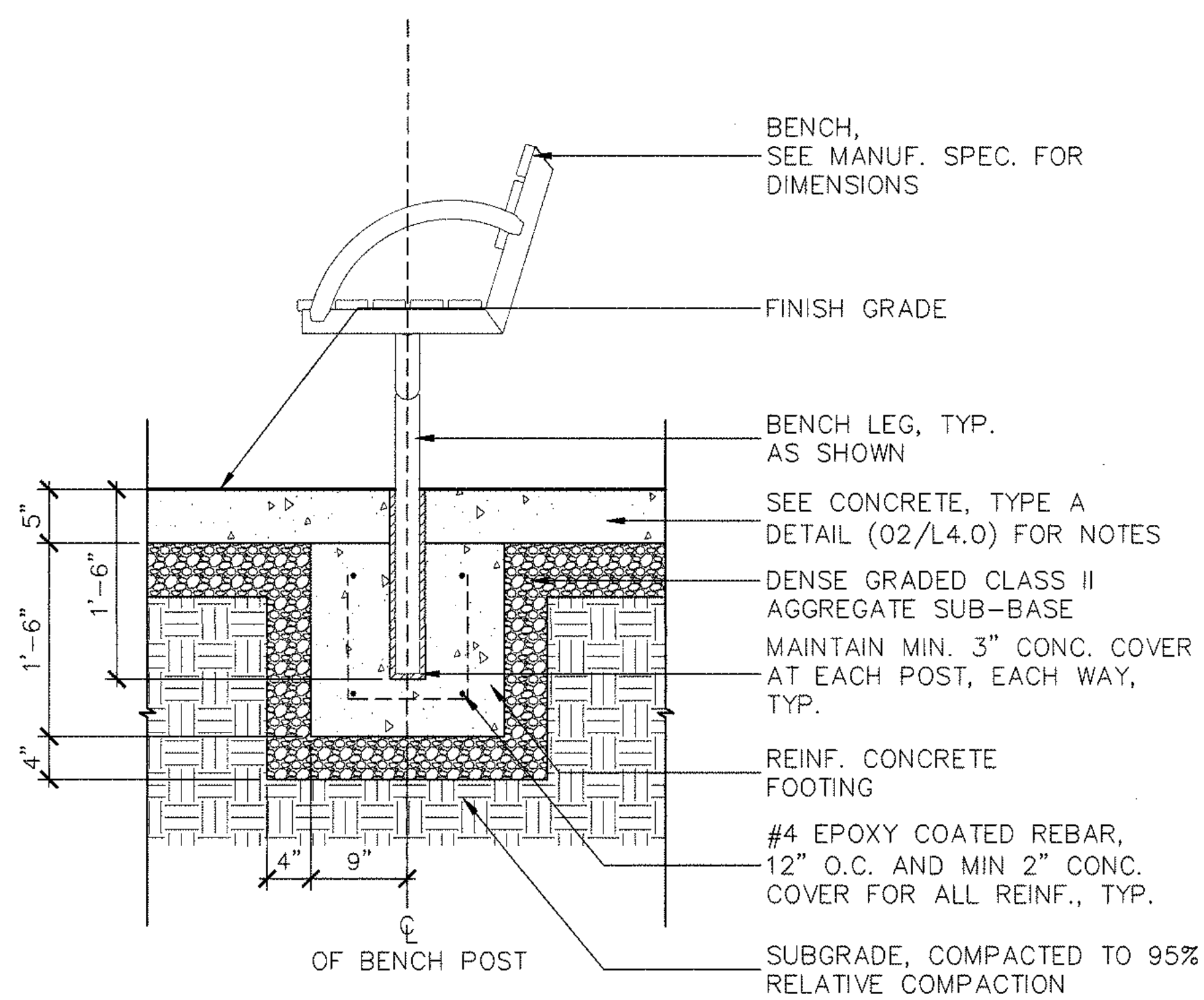
5 BENCH TYPE B SECTION - ELEVATION

SCALE: 1"=1'-0"



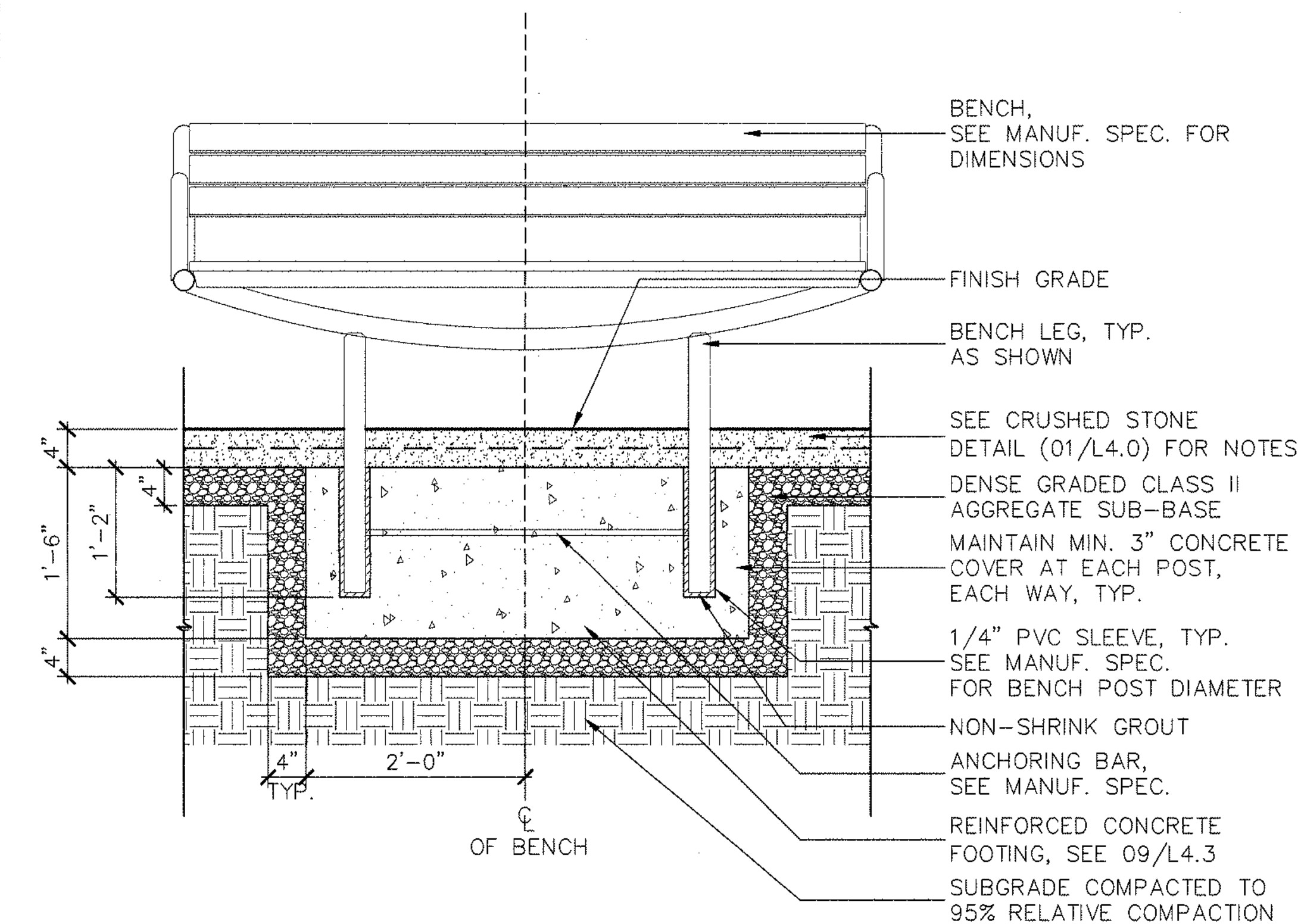
6 BENCH - EMBEDDED MOUNTING @ CONCRETE SECTION

SCALE: 1"=1'-0"



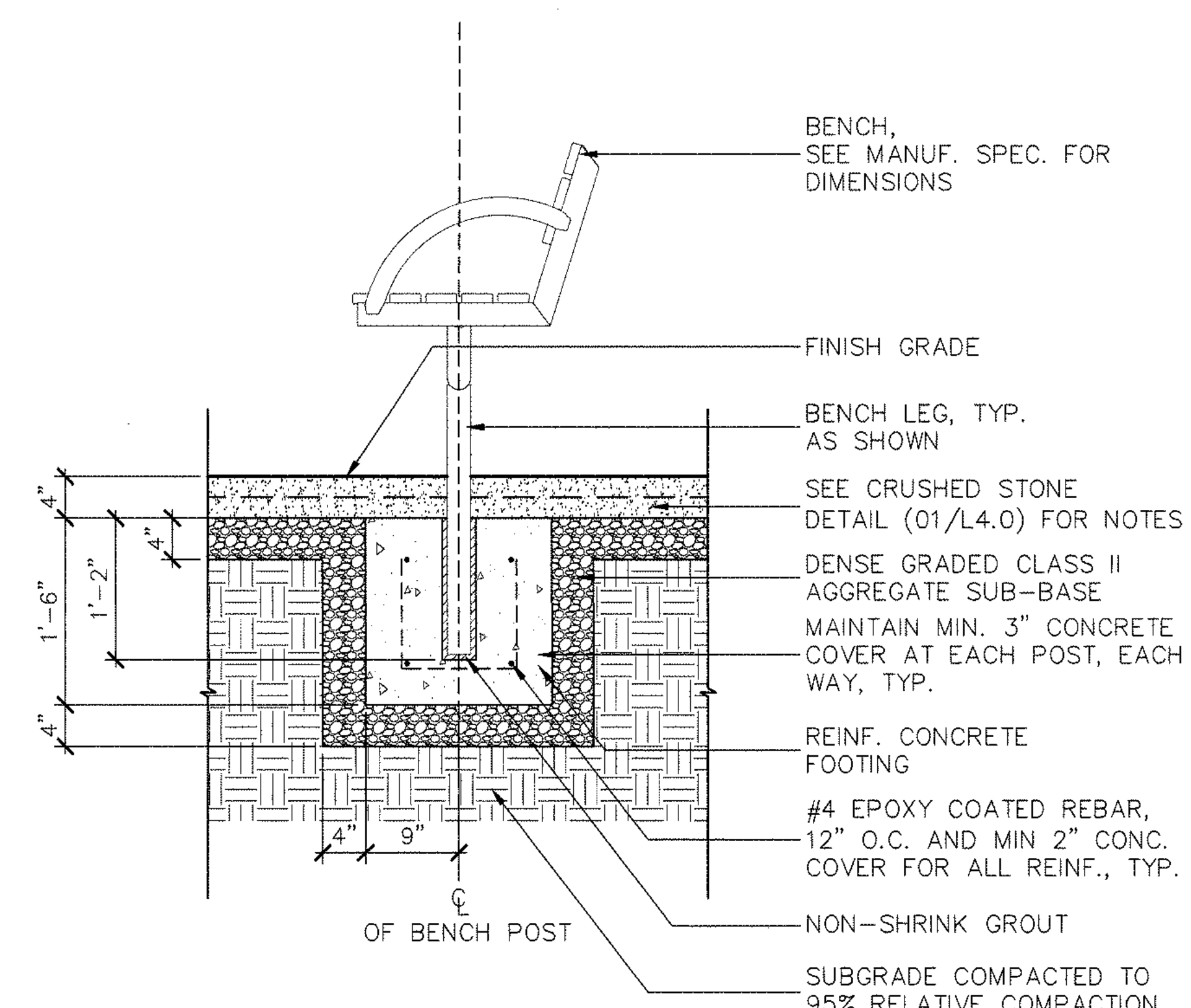
7 BENCH - EMBEDDED MOUNTING @ CONCRETE SECTION

SCALE: 1"=1'-0"



8 BENCH - EMBEDDED MOUNTING @ CRUSHED STONE SECTION - FRONT

SCALE: 1"=1'-0"



9 BENCH - EMBEDDED MOUNTING @ CRUSHED STONE SECTION - SIDE

SCALE: 1"=1'-0"

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Associates
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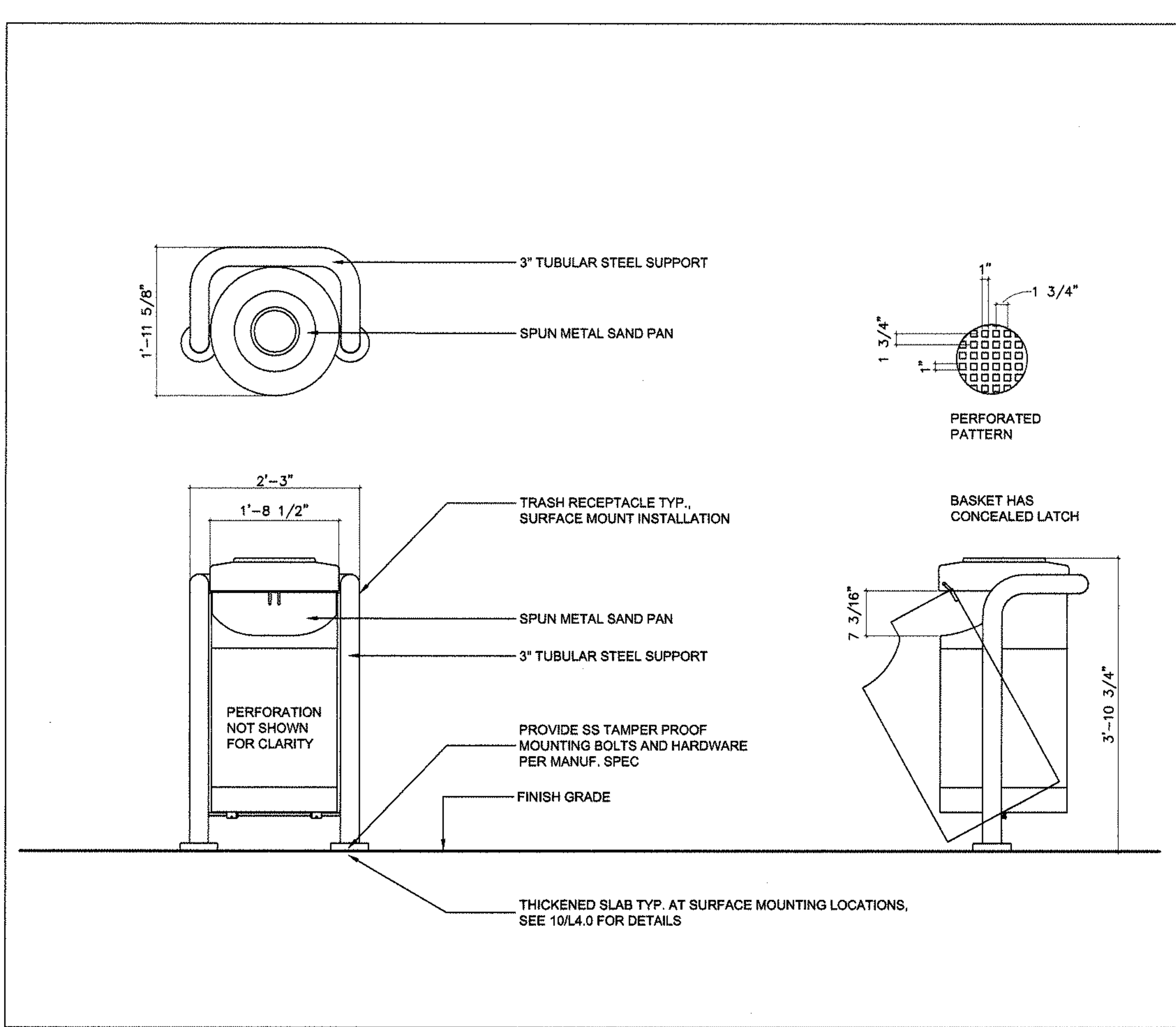
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Sheet Title

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LANDSCAPE
DETAIL
FURNITURE-1

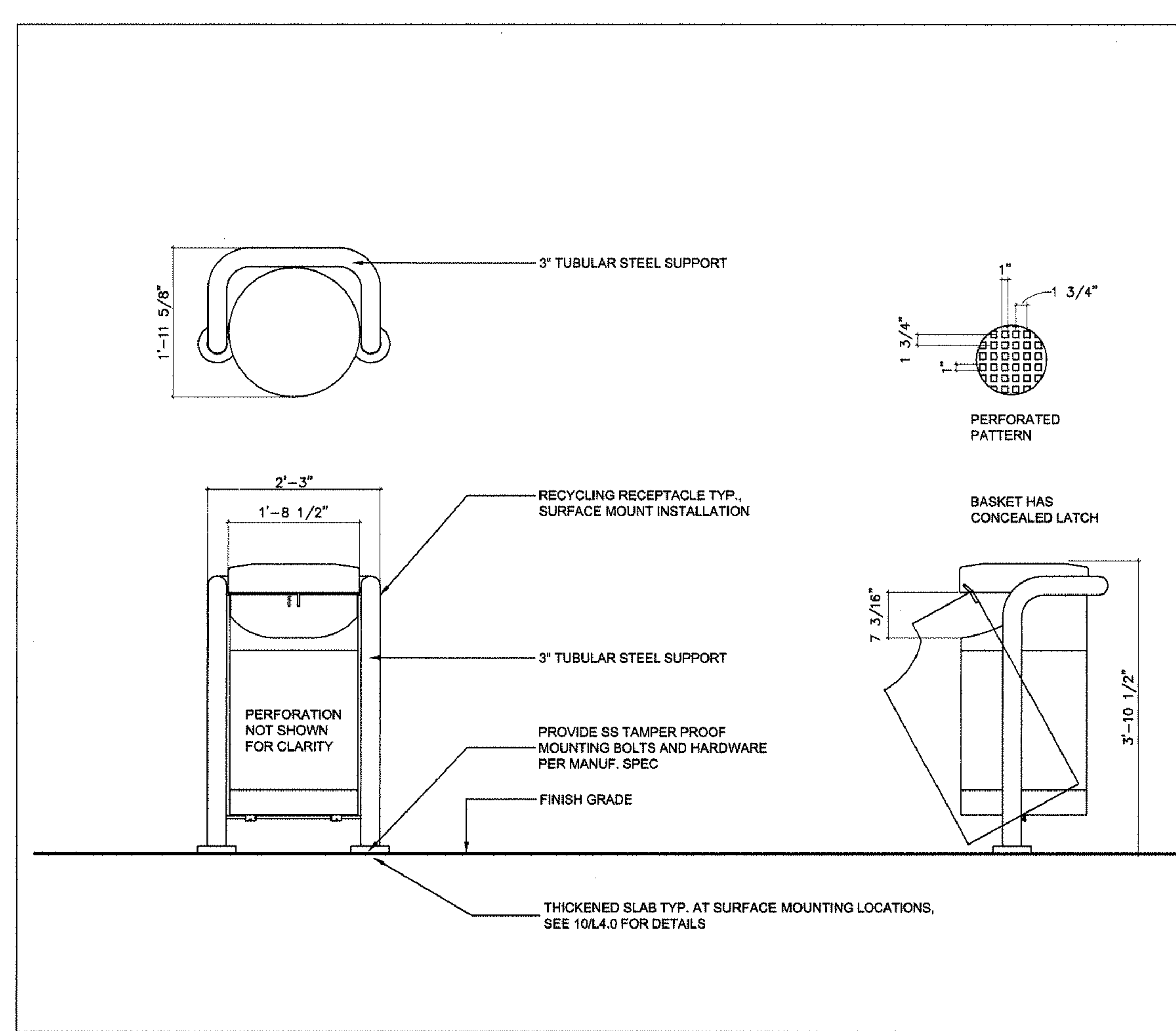
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Drawn by BJ Project number 20114.00
Sheet number

L4.3



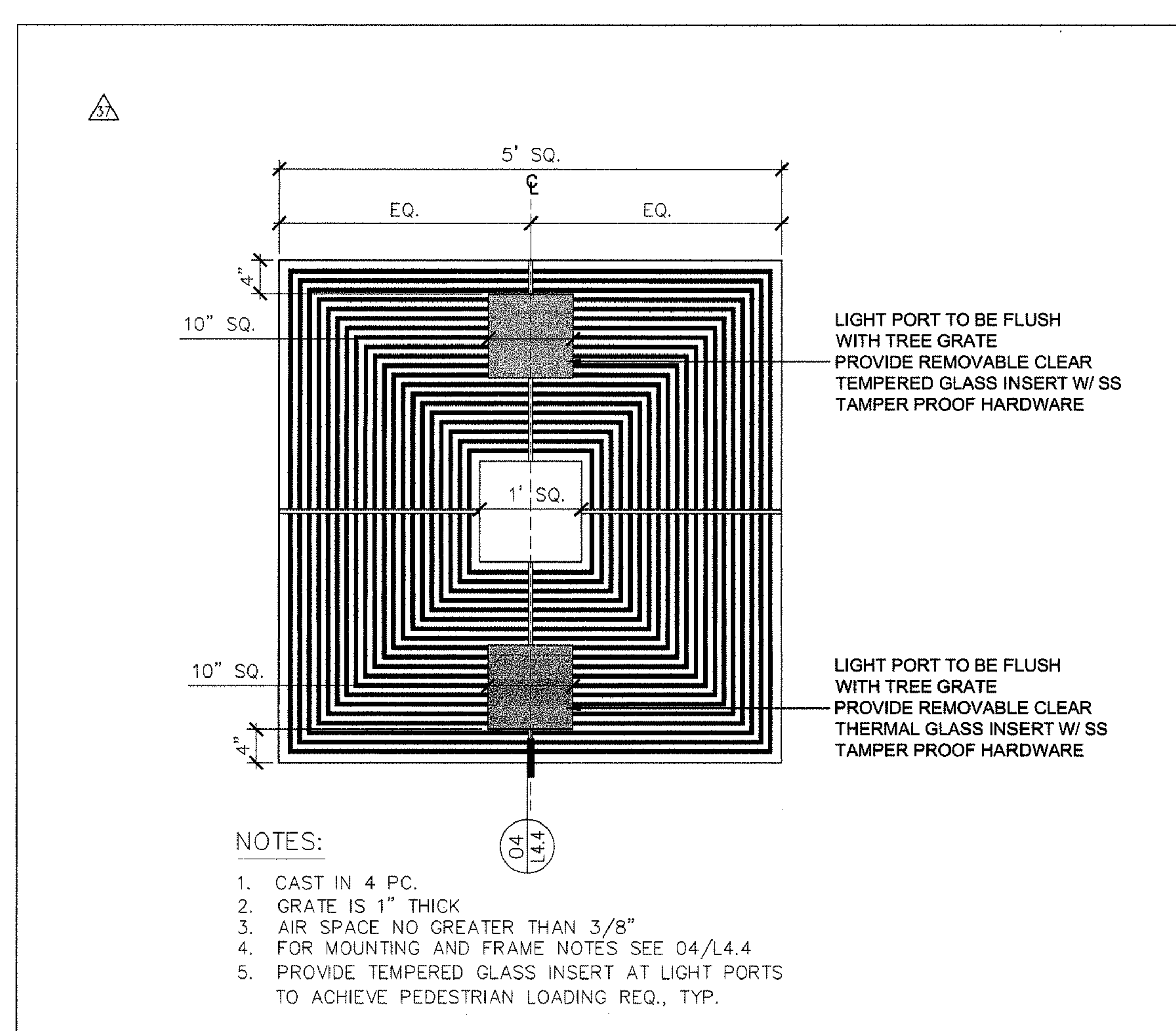
1 TRASH RECEPTACLE - SURFACE MOUNTED SECTION

SCALE: 3/4"=1'-0" 1' 0" 6" 1' 2"



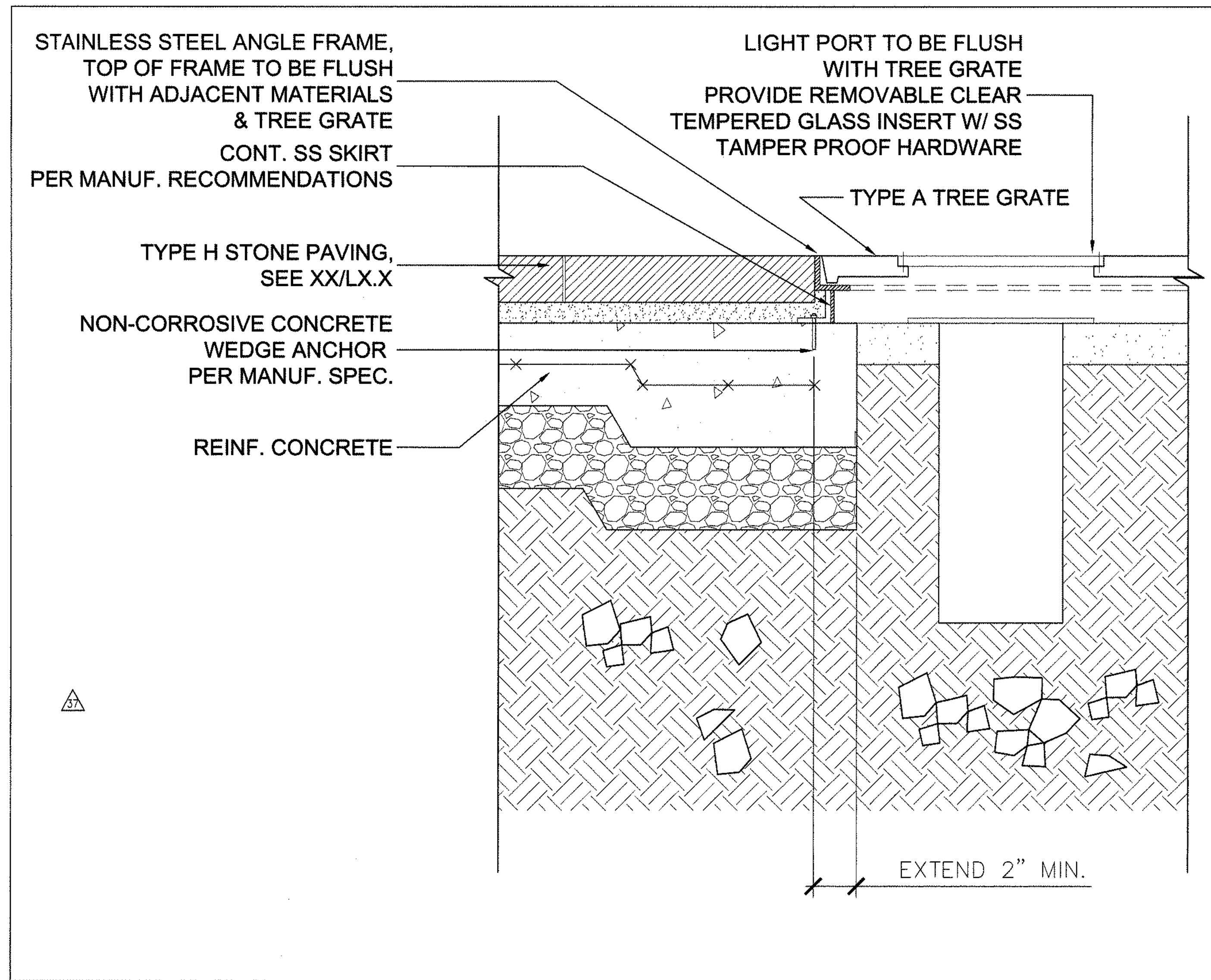
2 RECYCLING RECEPTACLE - SURFACE MOUNTED SECTION

SCALE: 3/4"=1'-0" 1' 0" 6" 1' 2"



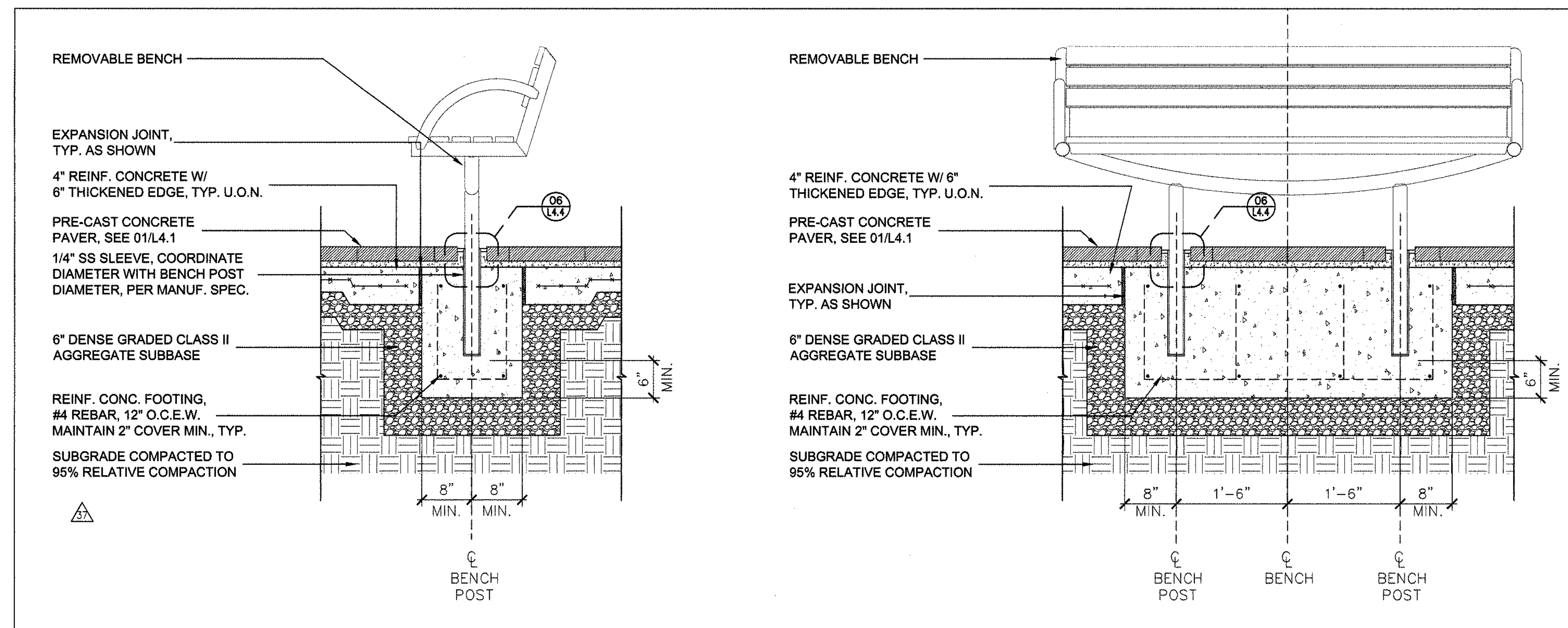
3 TREE GRATE PLAN

SCALE: 1"=1'-0" 0" 6" 1' 2"



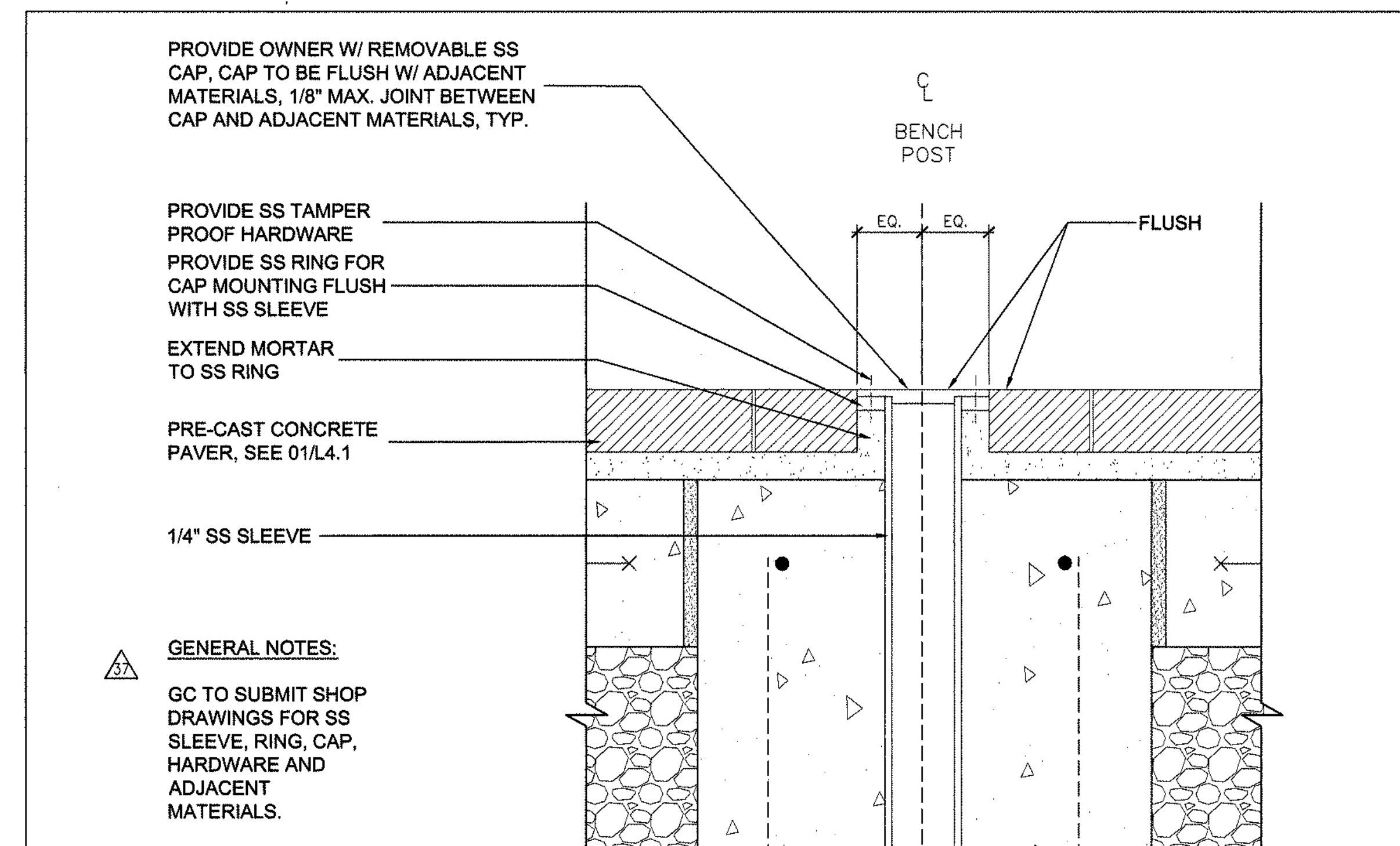
4 TREE GRATE MOUNTING SECTION

SCALE: 3"=1'-0" 3' 0" 6" 1' 2"



5 REMOVABLE BENCH TYPE C SECTION

SCALE: 1"=1'-0" 0" 6" 1' 2"



6 REMOVABLE BENCH TYPE C CAP AND MOUNTING SECTION

SCALE: 3"=1'-0" 3' 0" 6" 1' 2"

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 Associates
 2020 17th Street
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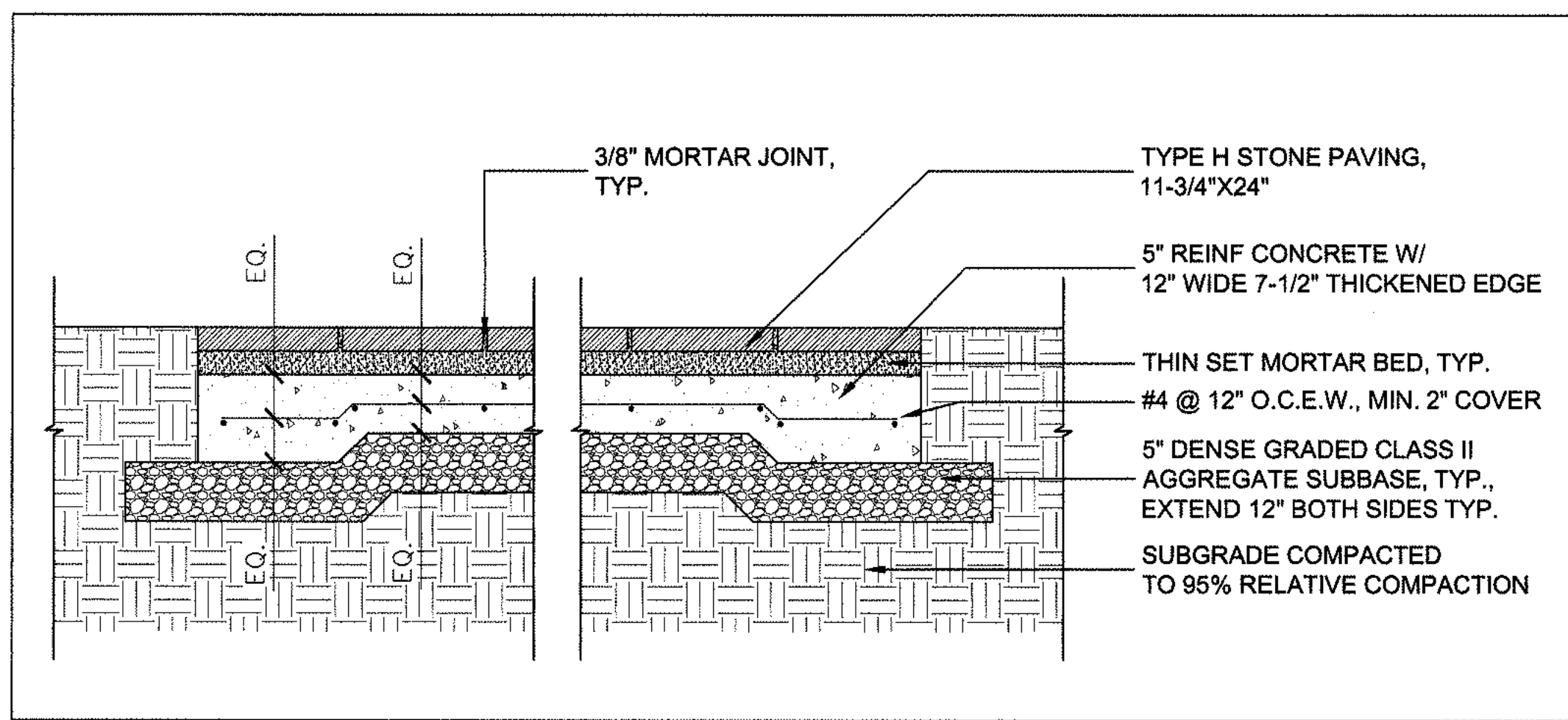
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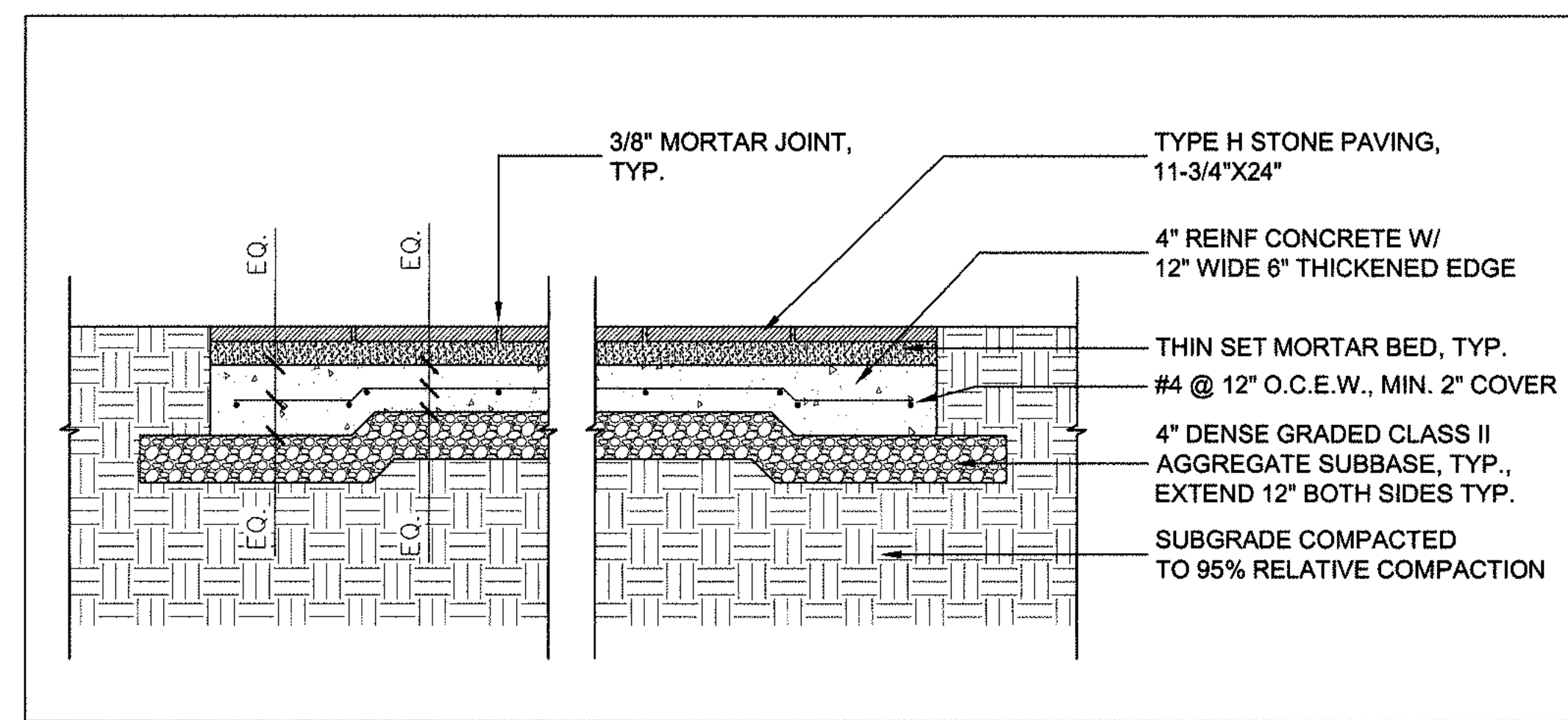
LANDSCAPE
 DETAIL
 FURNITURE-2

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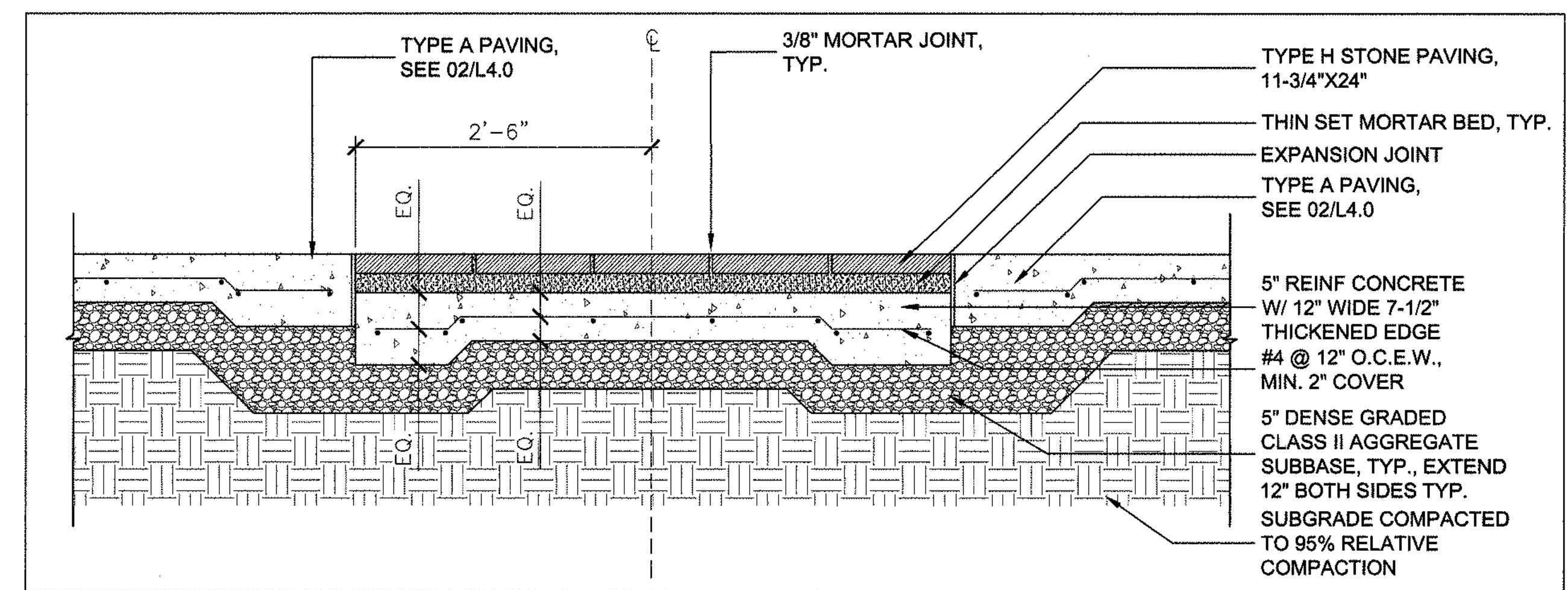
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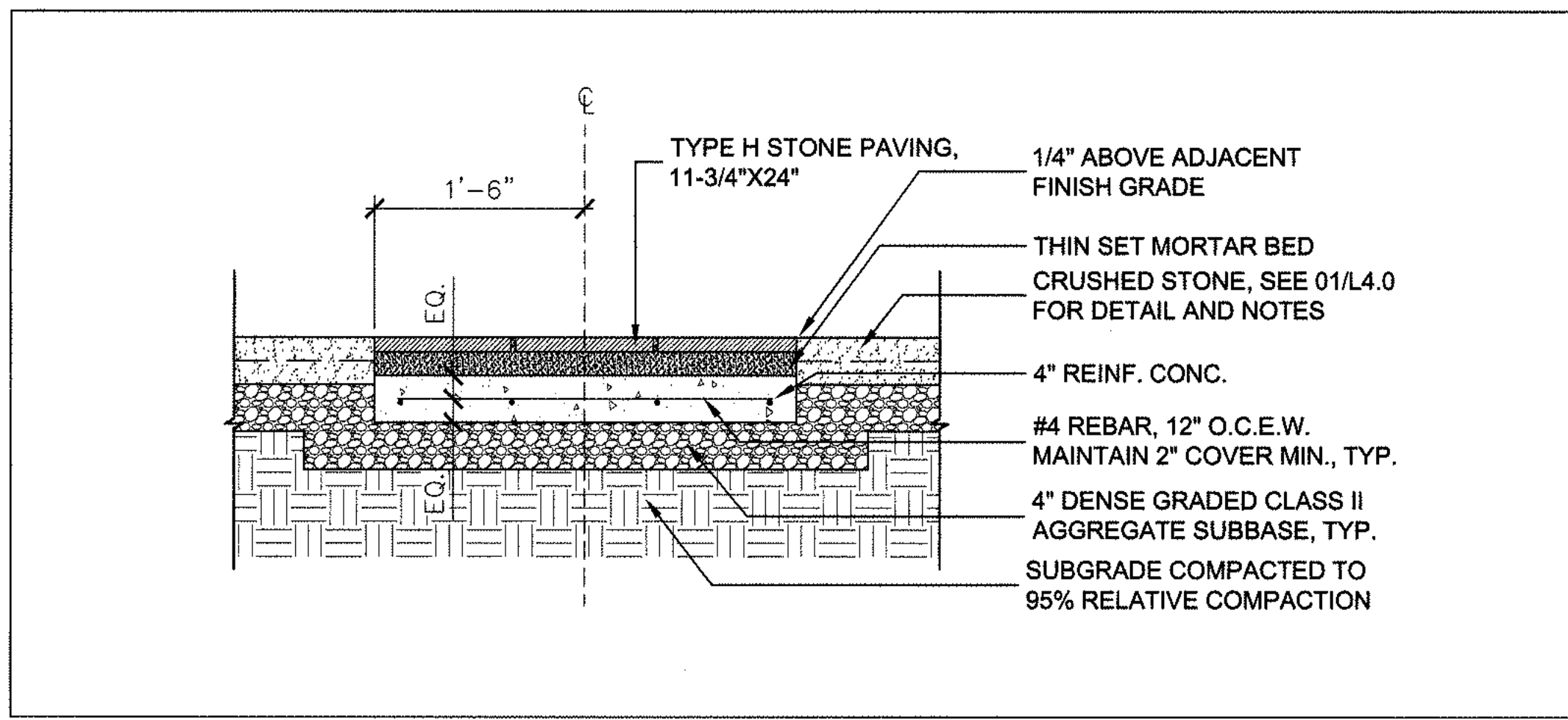
1 STONE PAVING - LIGHT VEHICULAR SECTION
SCALE: 1"=1'-0"



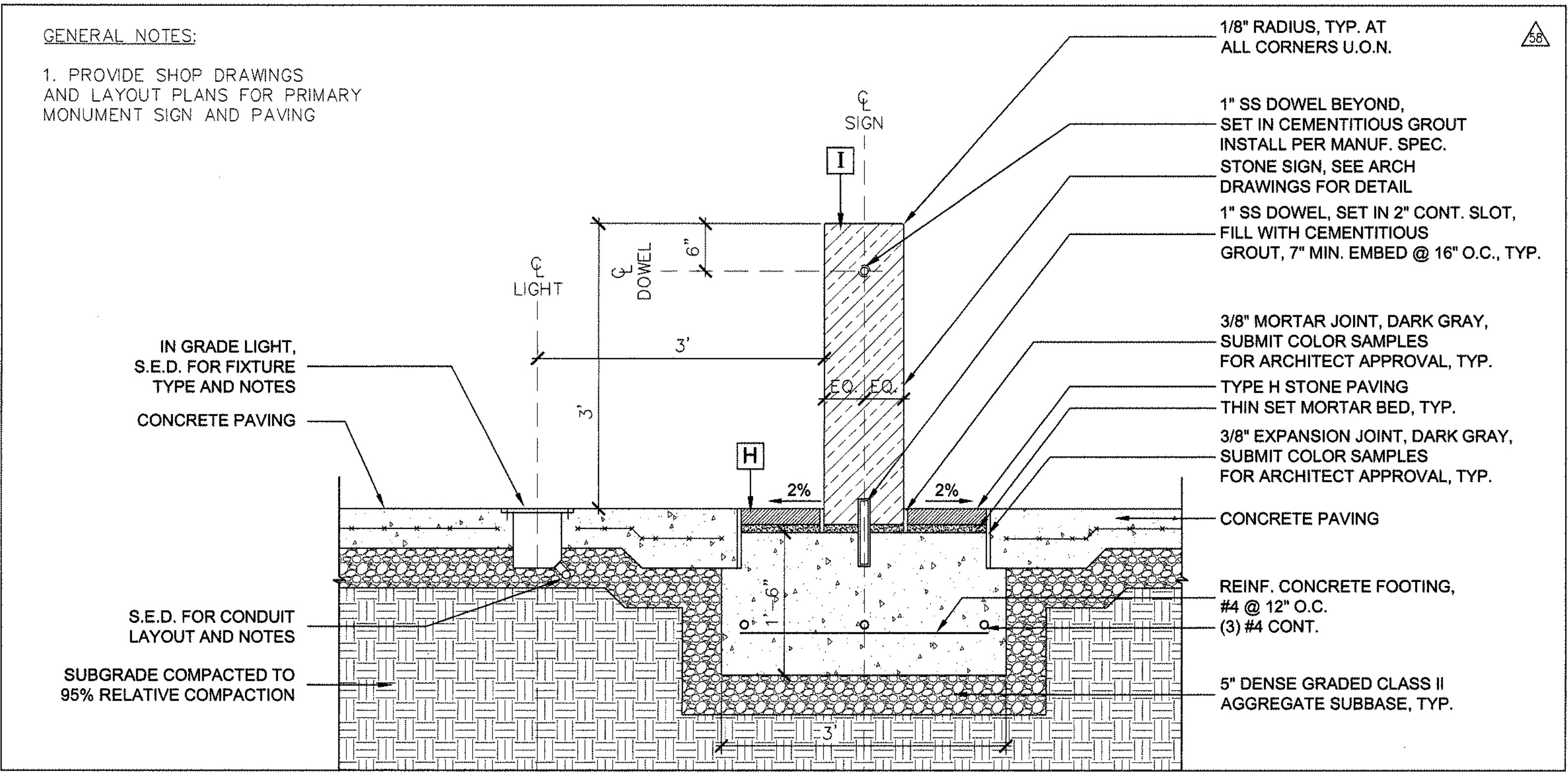
2 STONE PAVING - PEDESTRIAN SECTION
SCALE: 1"=1'-0"



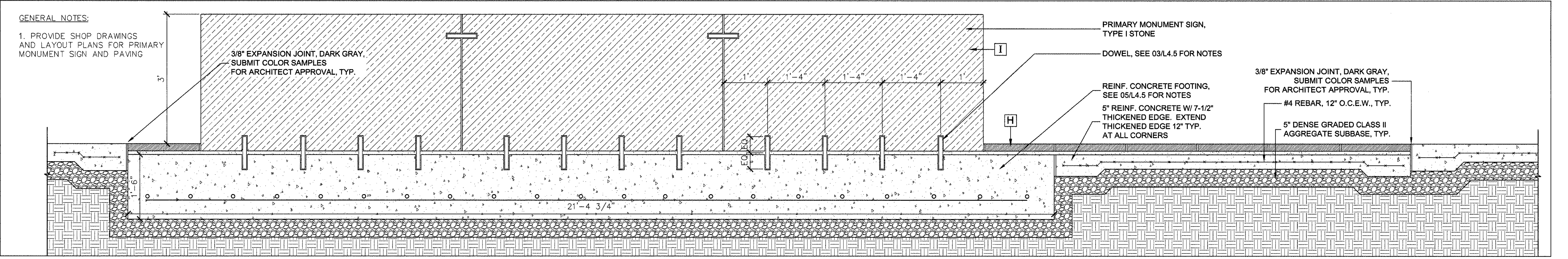
3 STONE BAND SECTION
SCALE: 1"=1'-0"



4 STONE PAVING - HERITAGE GROVE BAND - PEDESTRIAN SECTION
SCALE: 1"=1'-0"



5 PRIMARY MONUMENT SIGN SHORT SECTION
SCALE: 1"=1'-0"



6 PRIMARY MONUMENT SIGN LONG SECTION
SCALE: 1"=1'-0"

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Revisions	Date	Description
5A	2004.02.13	CCD035
5B	2004.03.18	CCD031
5C	2004.04.12	CCD043
5D	2004.05.06	CCD056

11-29-04 Updated Contract Documents

Stamp

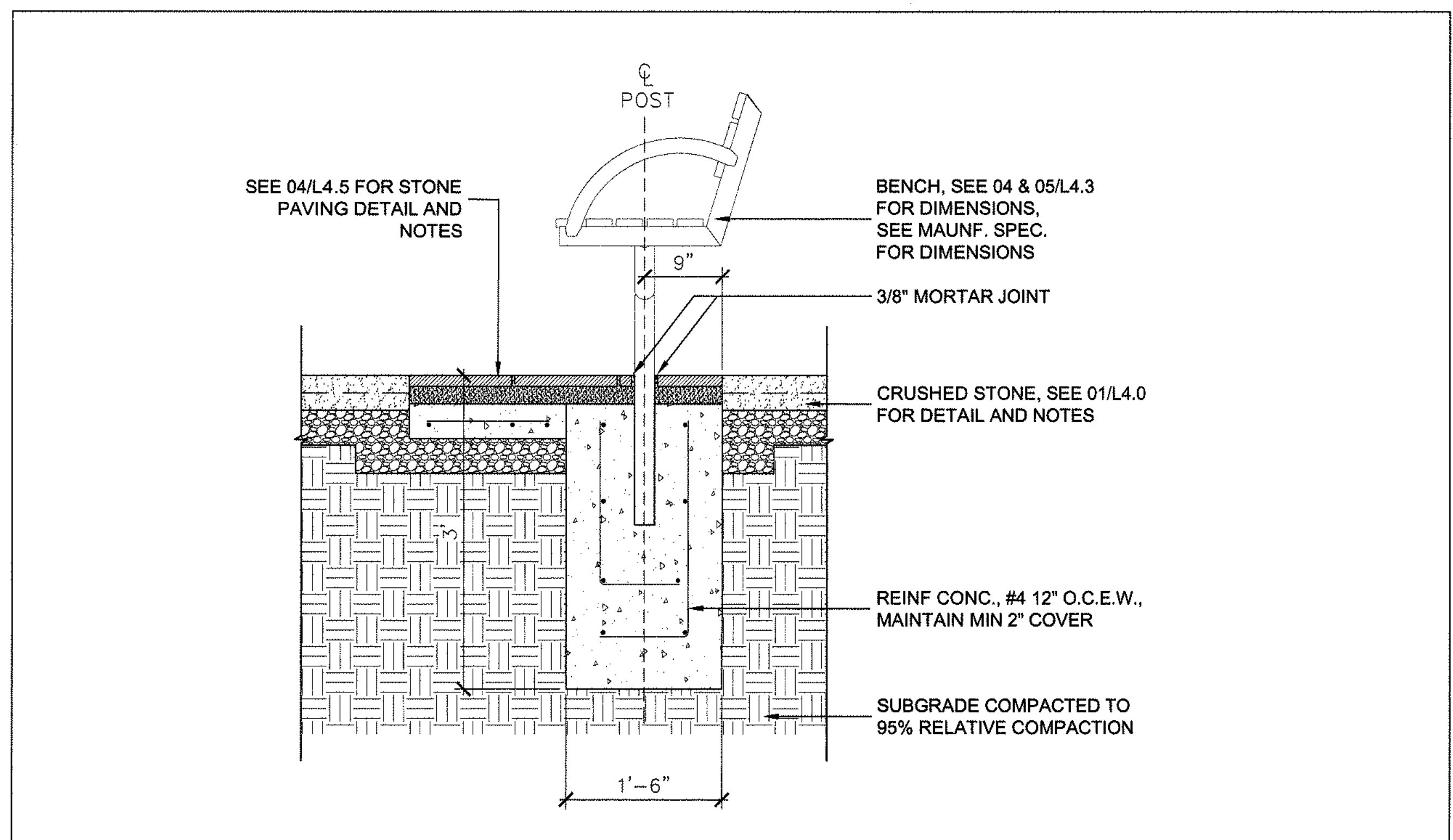
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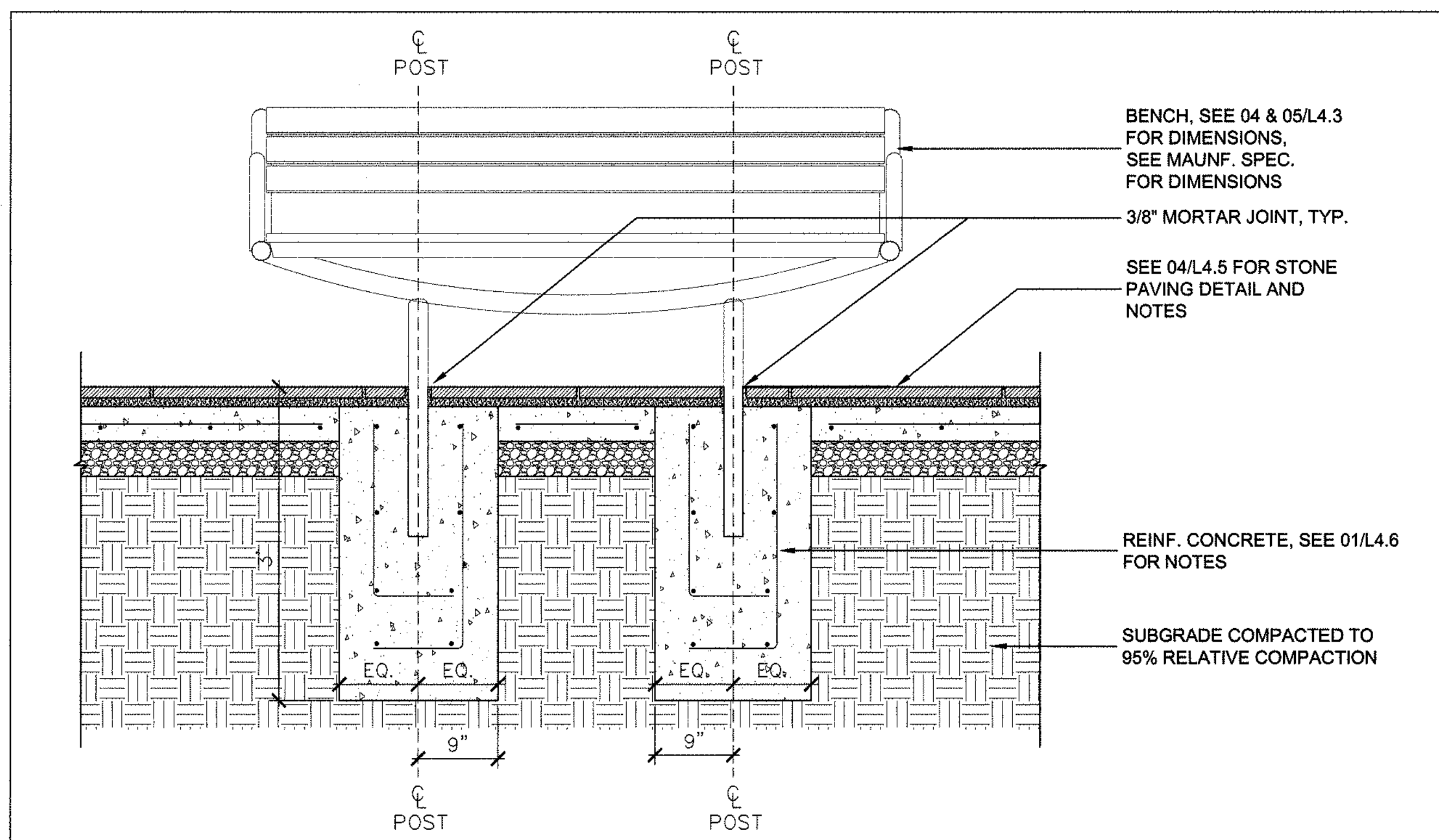
LANDSCAPE
DETAIL
HARDSCAPE

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Project Number: 2003.04.18
Sheet Number: 20114.00

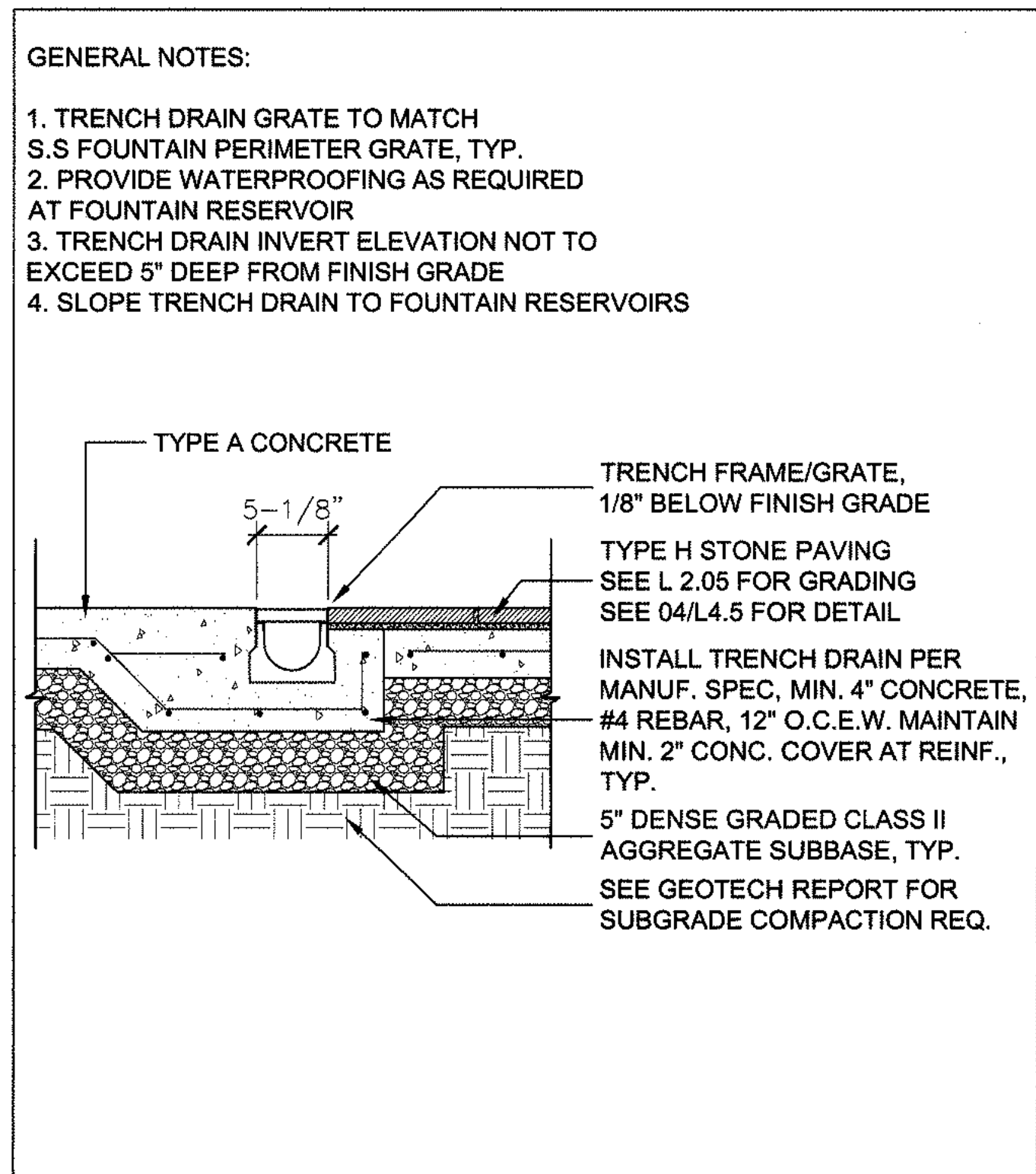
L4.5



1 BENCH @ STONE BAND SECTION
SCALE: 1"=1'-0"



2 BENCH @ STONE BAND SECTION
SCALE: 1"=1'-0"



3 BENCH @ STONE BAND SECTION
SCALE: 1"=1'-0"

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Revisions	Date	Description
34	2004.03.18	CC0032
35	2004.05.06	CC0056
36	2004.05.06	CC0056
37		

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Issue

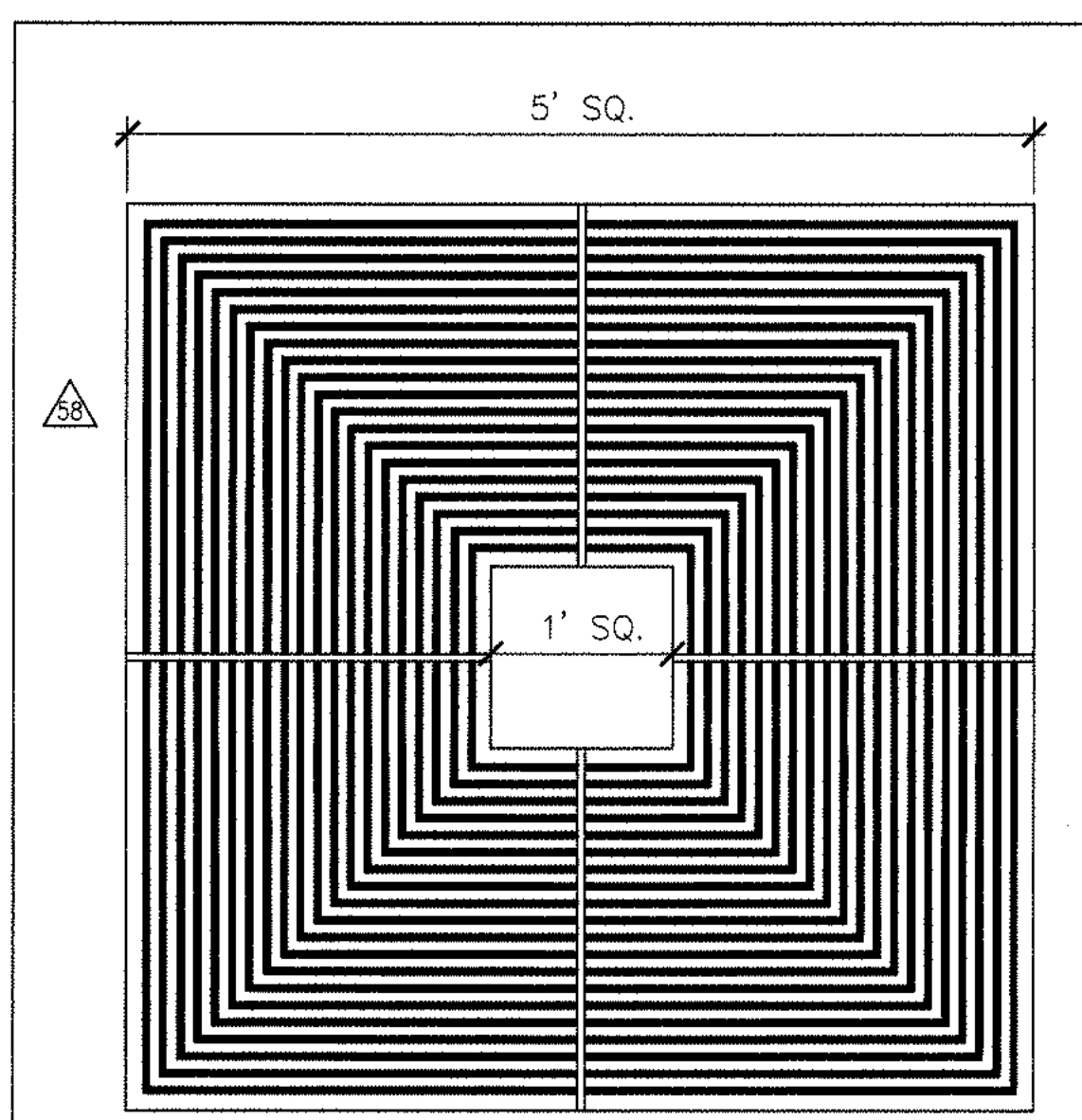
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Sheet 206

LANDSCAPE
DETAIL
HARDSCAPE

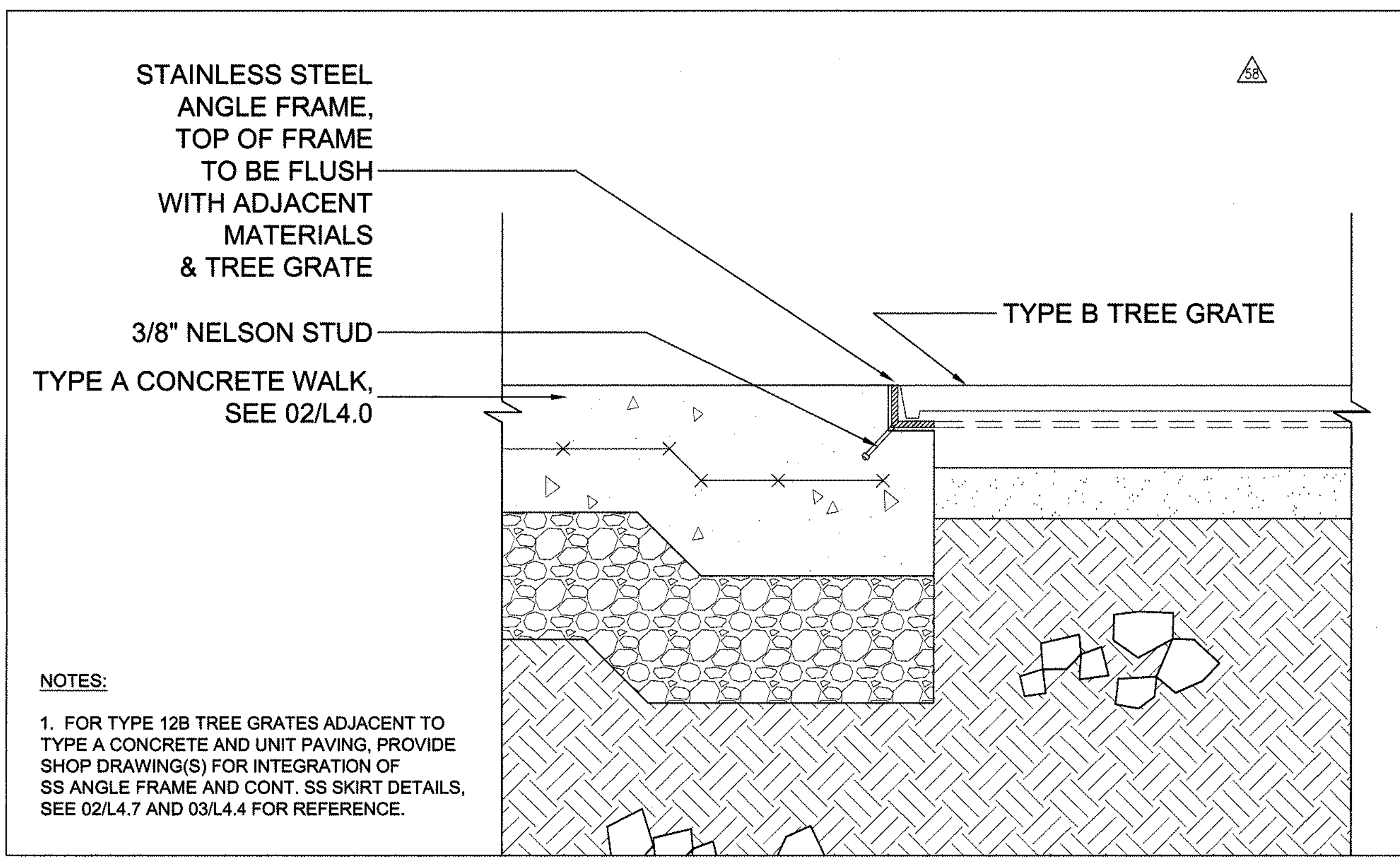
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Drawn by BJ Project number 20114.00
Sheet number

L4.6



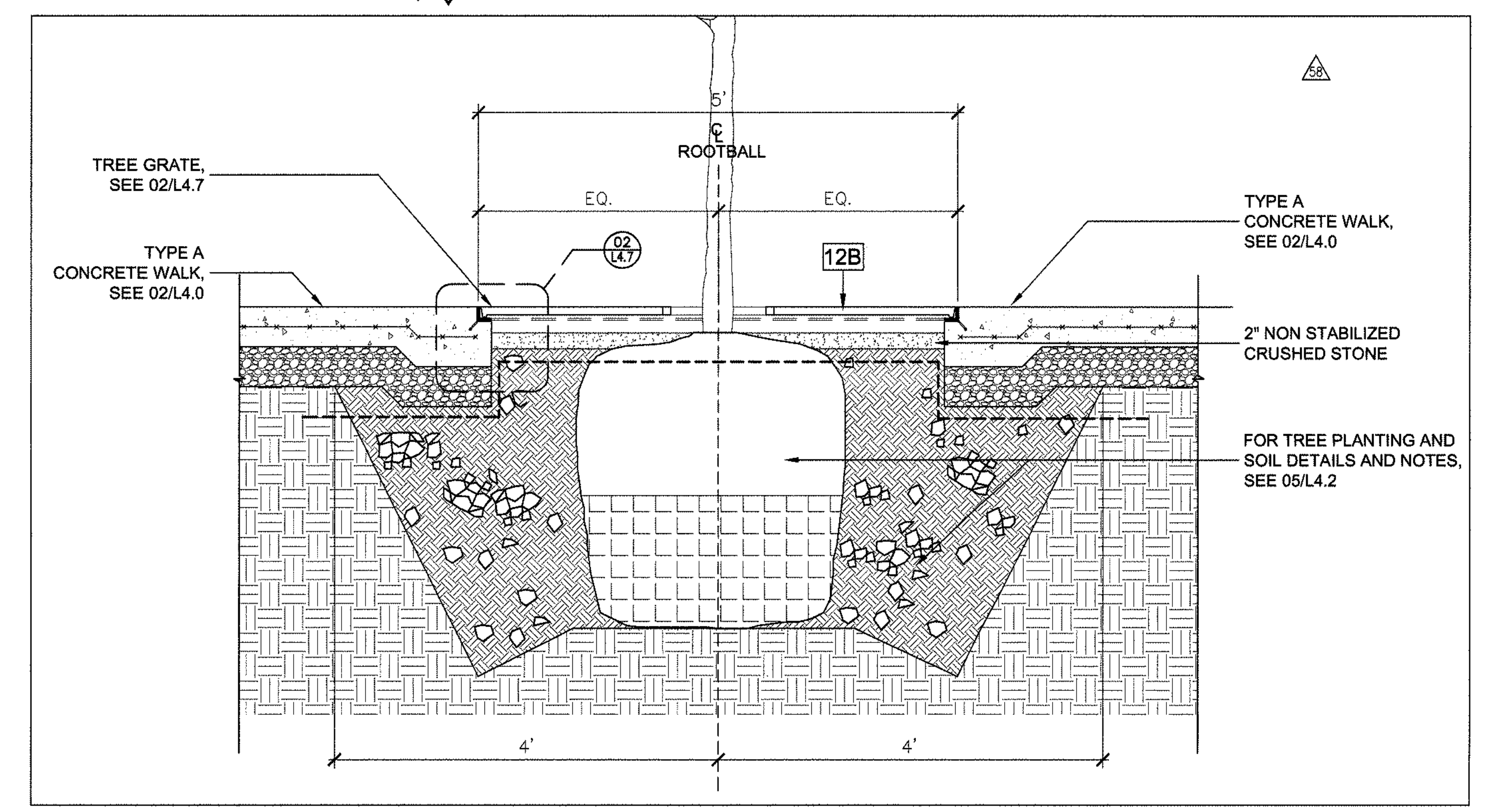
- NOTES:
1. CAST IN 4 PC.
 2. GRATE IS 1" THICK
 3. AIR SPACE NO GREATER THAN 1/2"
 4. FOR MOUNTING AND FRAME NOTES SEE 03/L4.7

1 TREE GRATE, TYPE 12B
PLAN
SCALE: 1"=1'-0"



- NOTES:
1. FOR TYPE 12B TREE GRATES ADJACENT TO TYPE A CONCRETE AND UNIT PAVING, PROVIDE SHOP DRAWING(S) FOR INTEGRATION OF SS ANGLE FRAME AND CONT. SS SKIRT DETAILS, SEE 02/L4.7 AND 03/L4.4 FOR REFERENCE.

2 TREE GRATE, TYPE 12B
SECTION
SCALE: 3"=1'-0"



3 TREE @ TYPE B TREE GRATE
SECTION
SCALE: 1"=1'-0"

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 916 435 2410 F

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 Associates
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 San Francisco, CA 94103
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 415 865 1810 F

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Revisions	Date	Description
△	2004.03.18	CCD034
△	2004.05.06	CCD056

11-29-04 Updated
Contract Documents

Stamp

Issue

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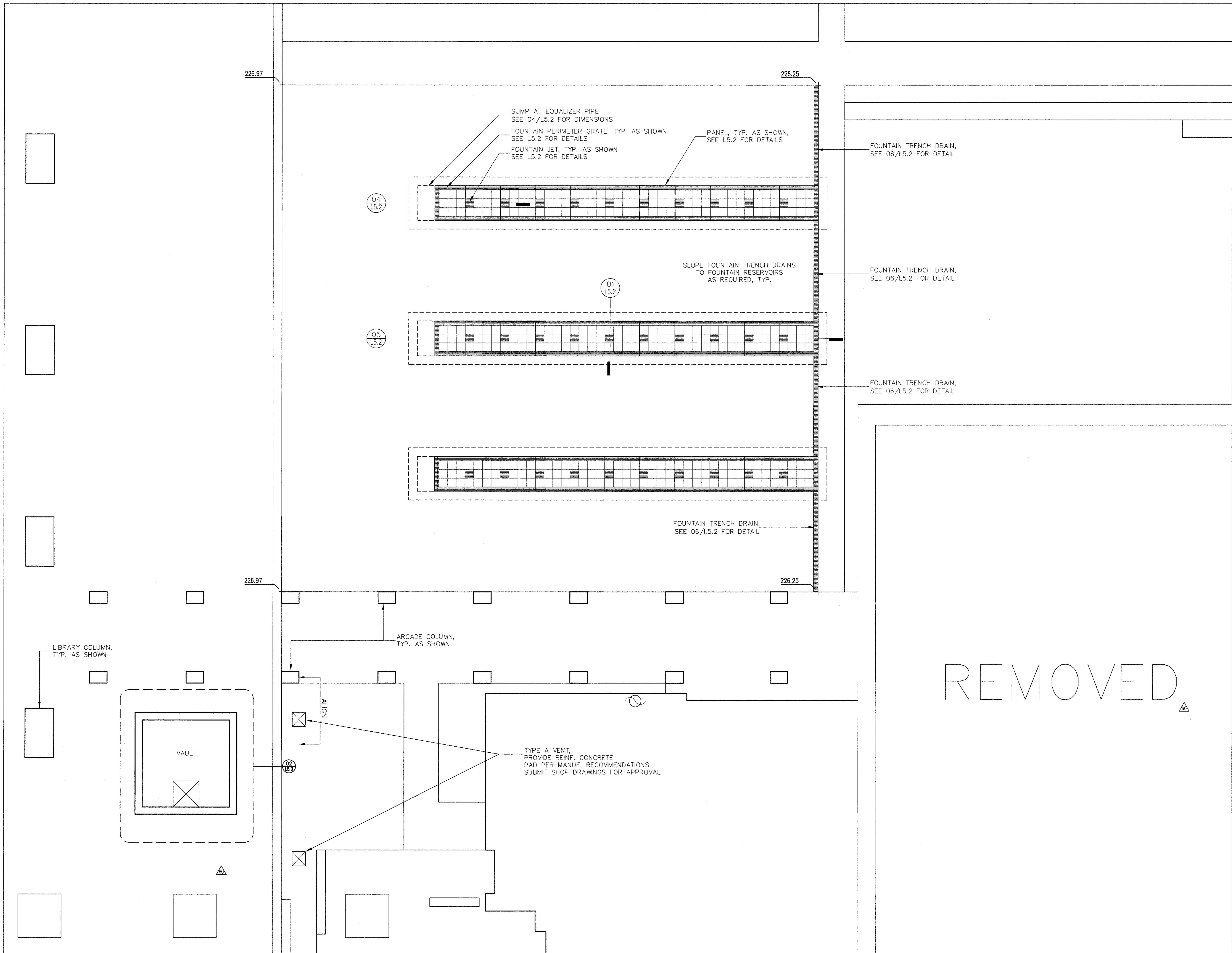
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LANDSCAPE
DETAIL

Scale: VARIES
 Drawn by: BL
 Project number: 2003.04.18
 Sheet number: 20114.00

L4.7

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1 FOUNTAIN - SITE LAYOUT
PLAN

SCALE: 1/4"=1'-0" 4' 0' 2' 4' 8'

2 FOUNTAIN - VAULT DETAIL PLAN
PLAN

SCALE: 1/2"=1'-0" 2' 0' 1' 2' 4'



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916 435 2410 F

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Associates
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revision
2004.05.10 C00058

11-29-04 Updated
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DATE
BID SET

LANDSCAPE
DETAIL
FOUNTAIN
LAYOUT

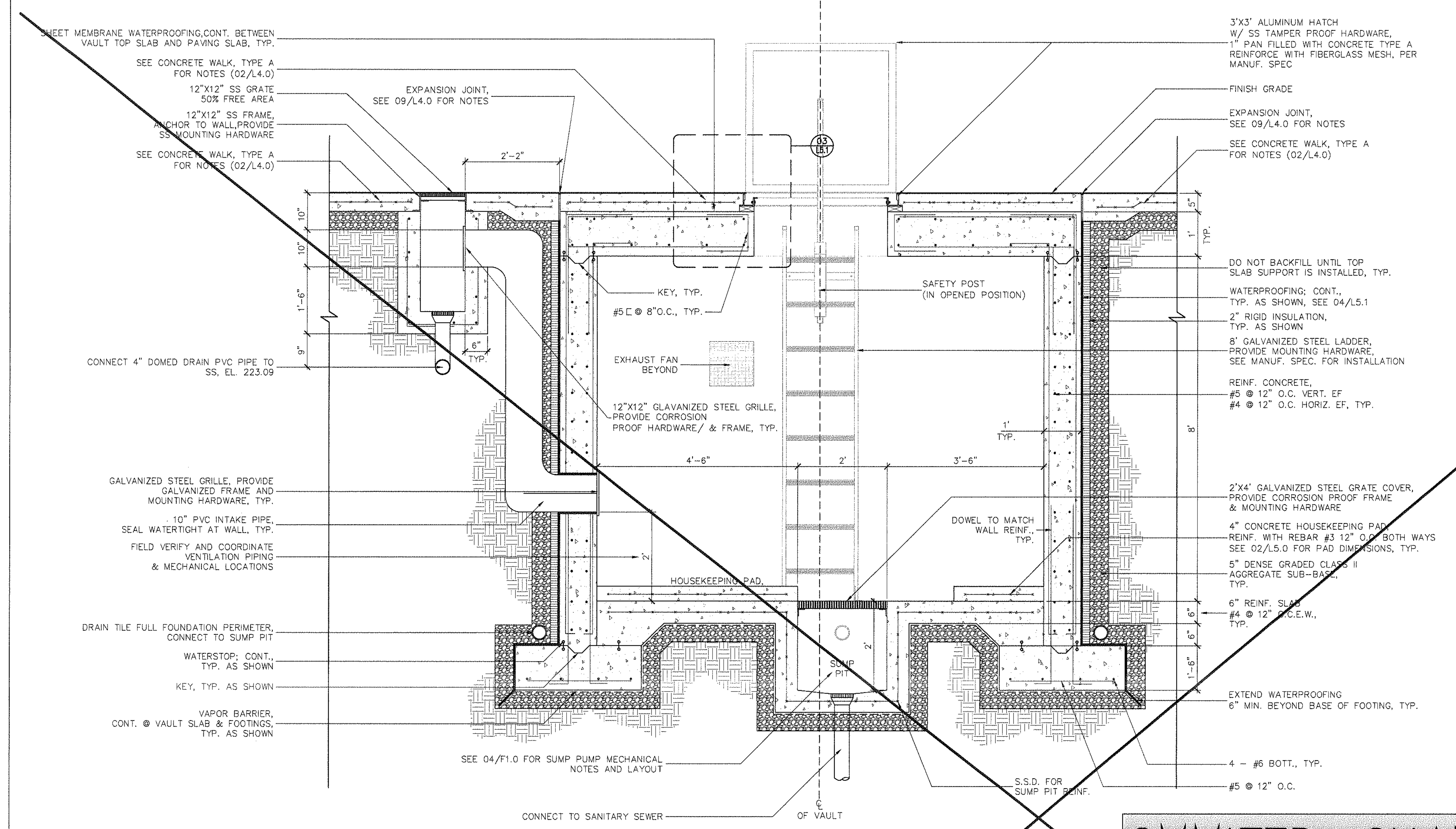
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DRAWN BY BJ PROJECT NUMBER 20114.00
SHEET NUMBER

L5.0

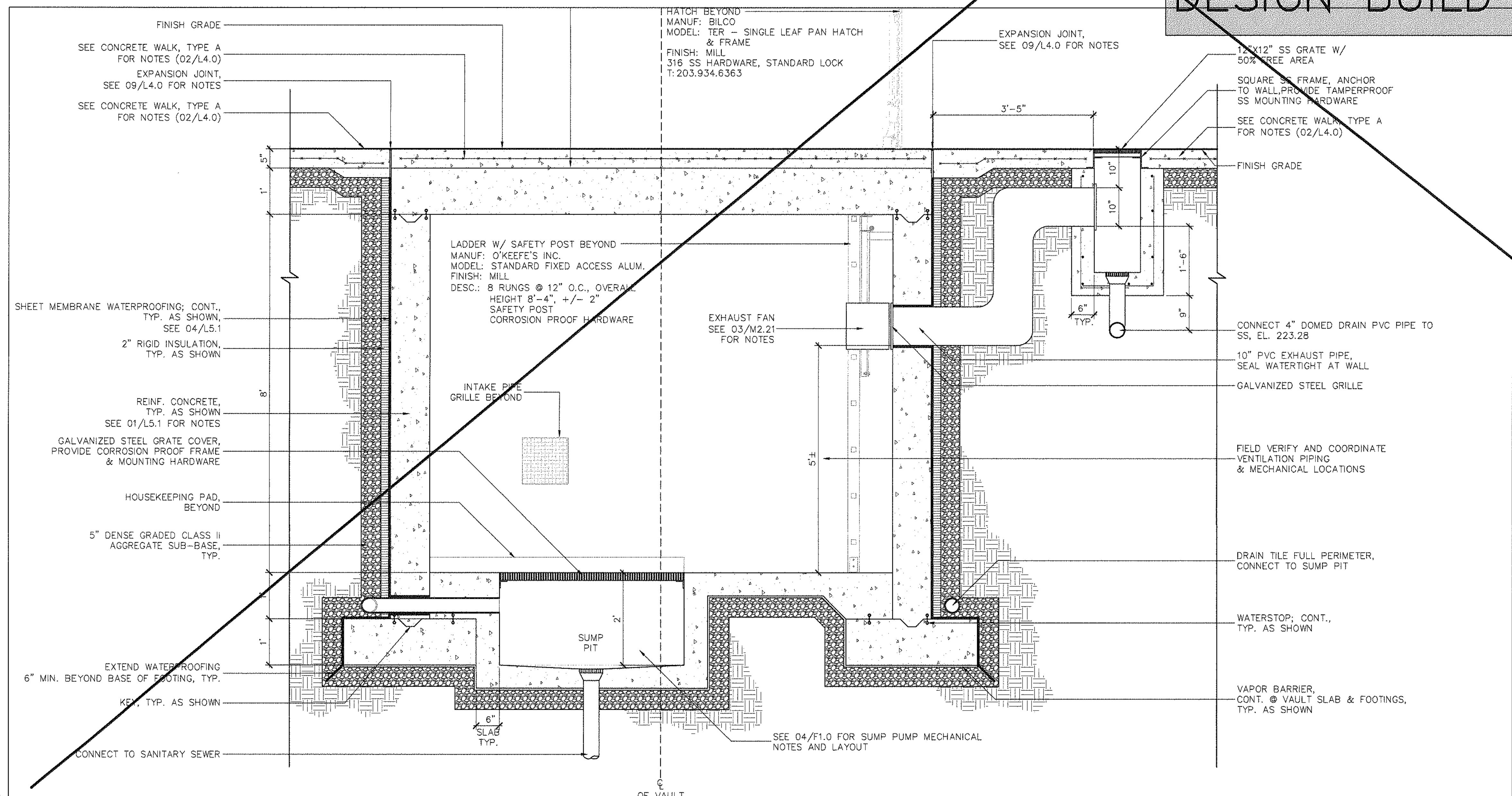
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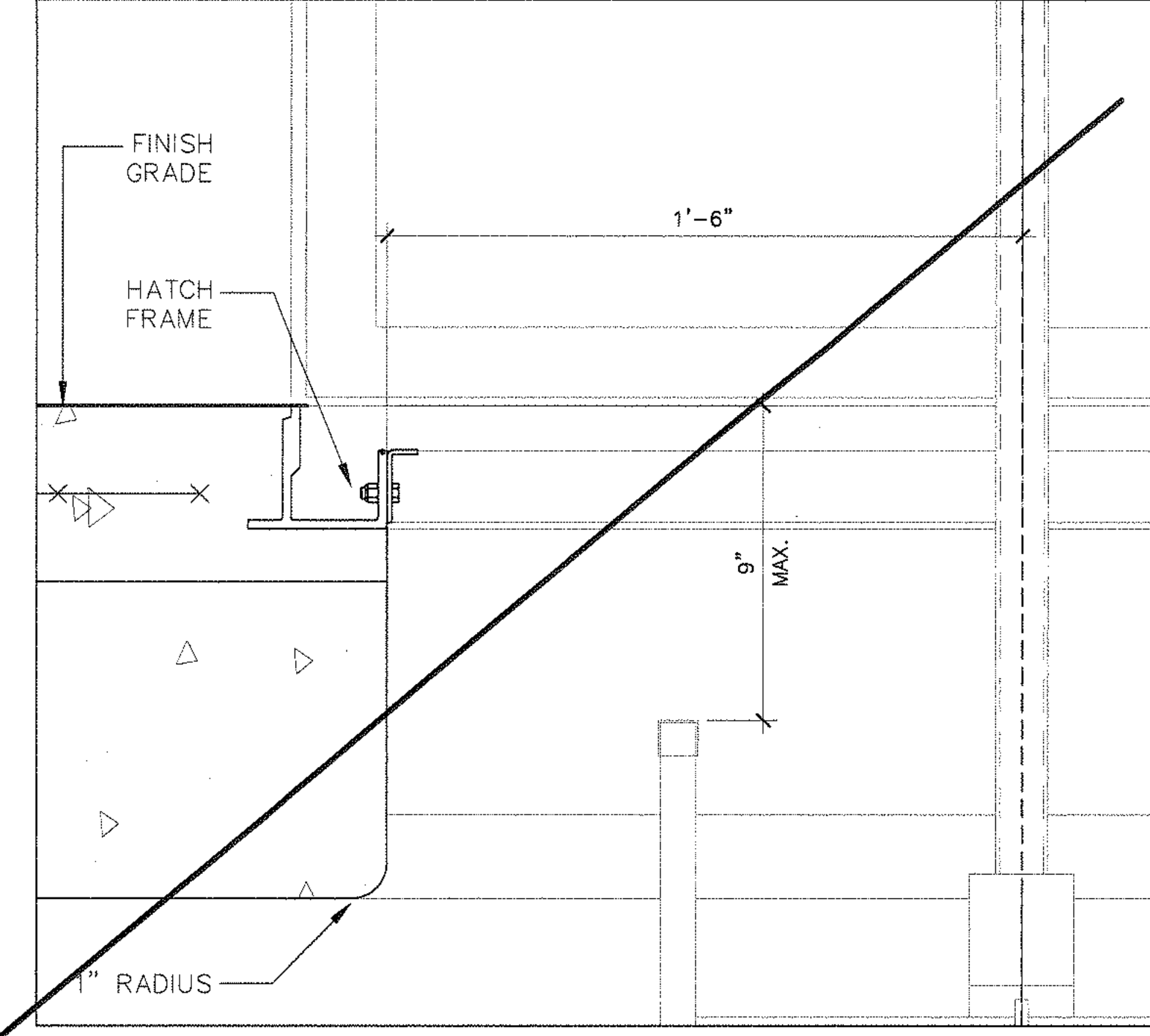
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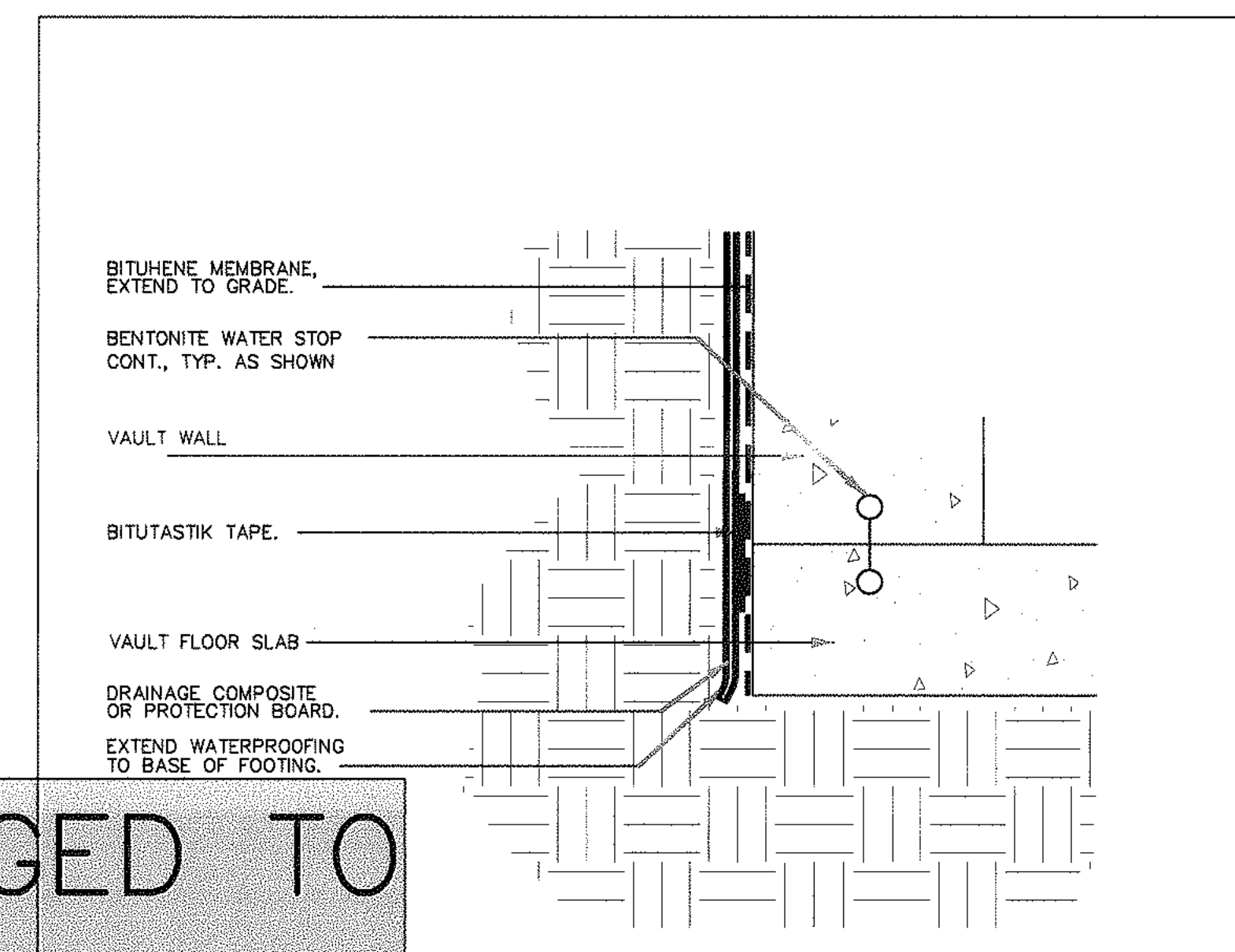
1 VAULT SECTION



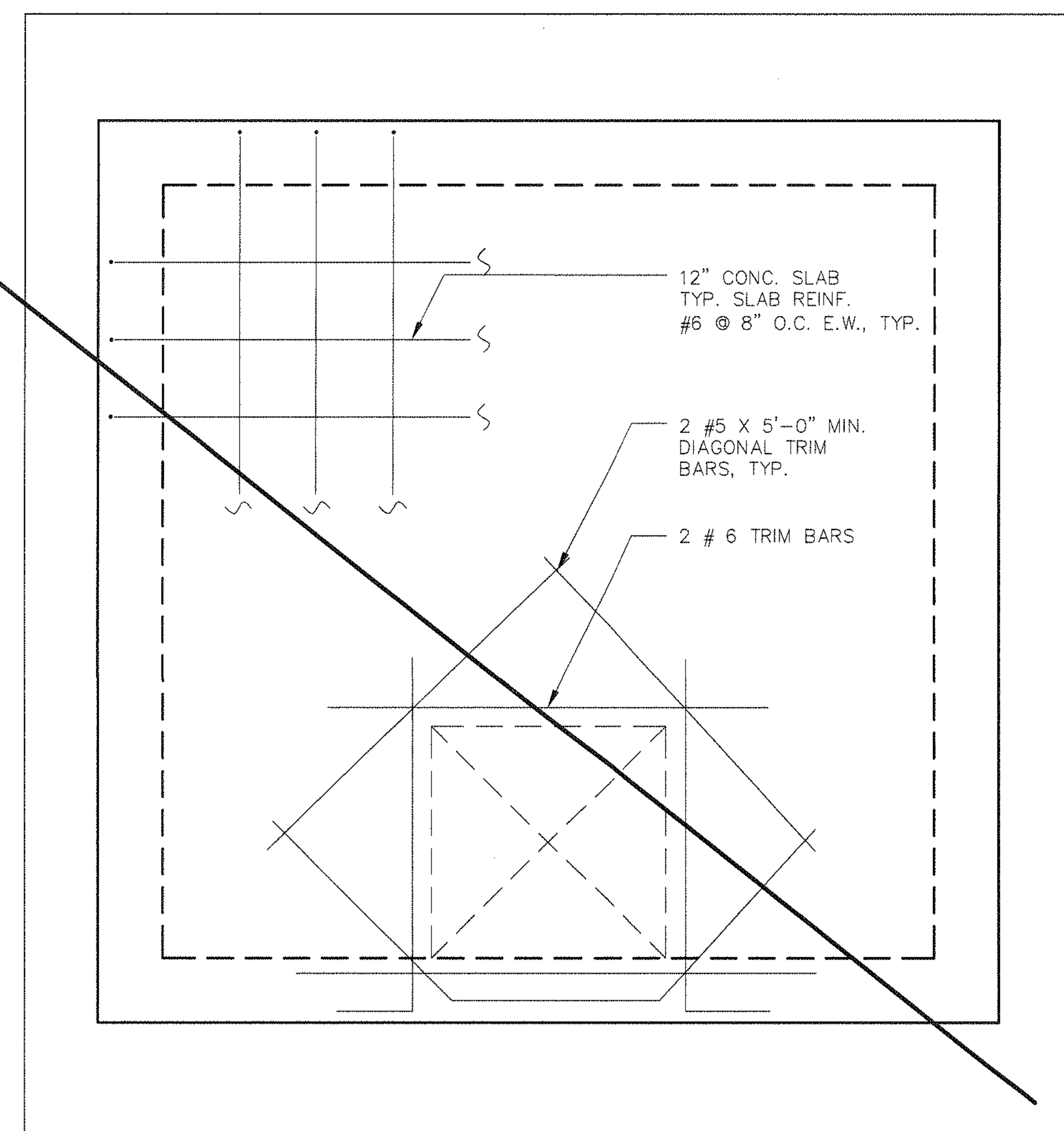
2 VAULT SECTION



3 VAULT ENTRY DETAIL SECTION



4 WATERPROOFING SECTION



5 PLAN - UPPER SLAB PLAN

OMMITTED, CHANGED TO DESIGN BUILD

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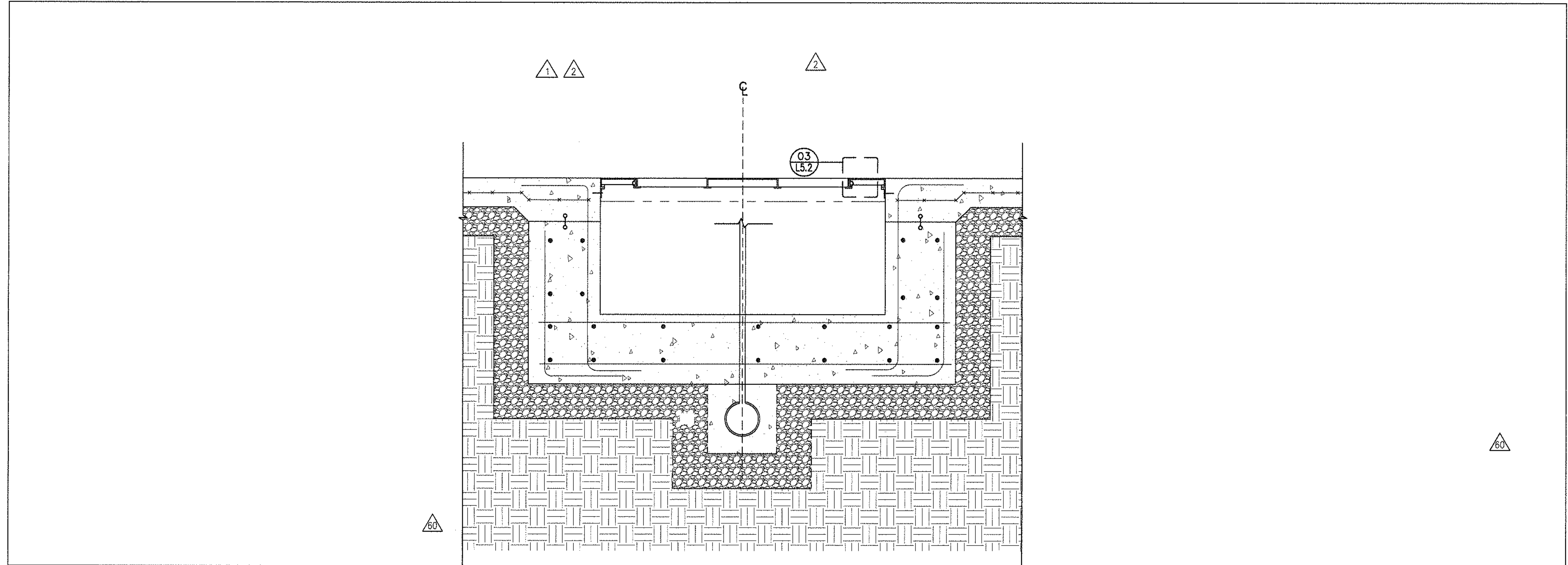
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Issue	BID SET
Sheet Size	

LANDSCAPE
 DETAIL
 VAULT

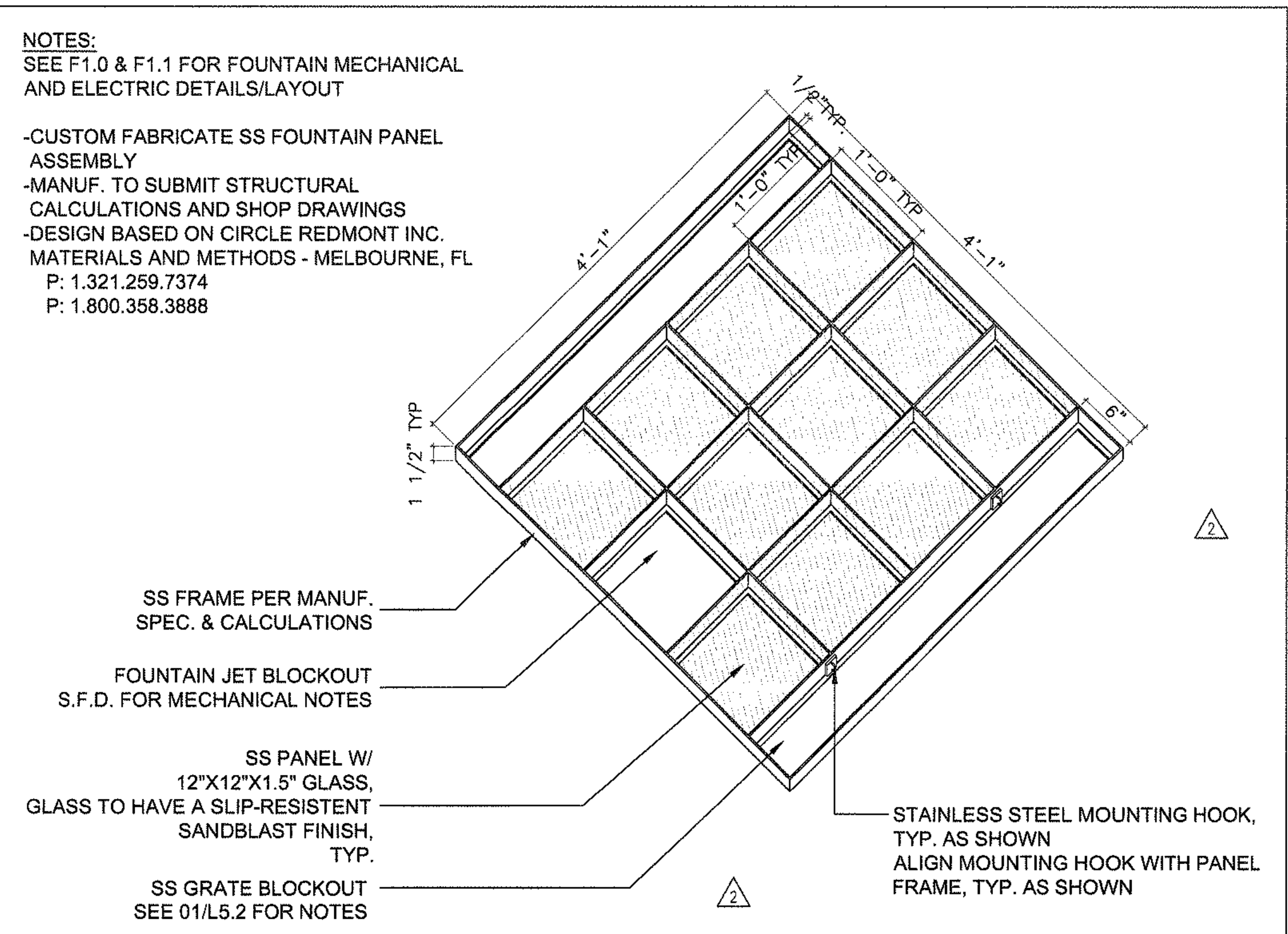
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 Date: 2003.04.18
 Drawn by: BL
 Project Number: 20114.00
 Sheet Number:

LS.1



1 FOUNTAIN SECTION

SCALE: 1"=1'-0"

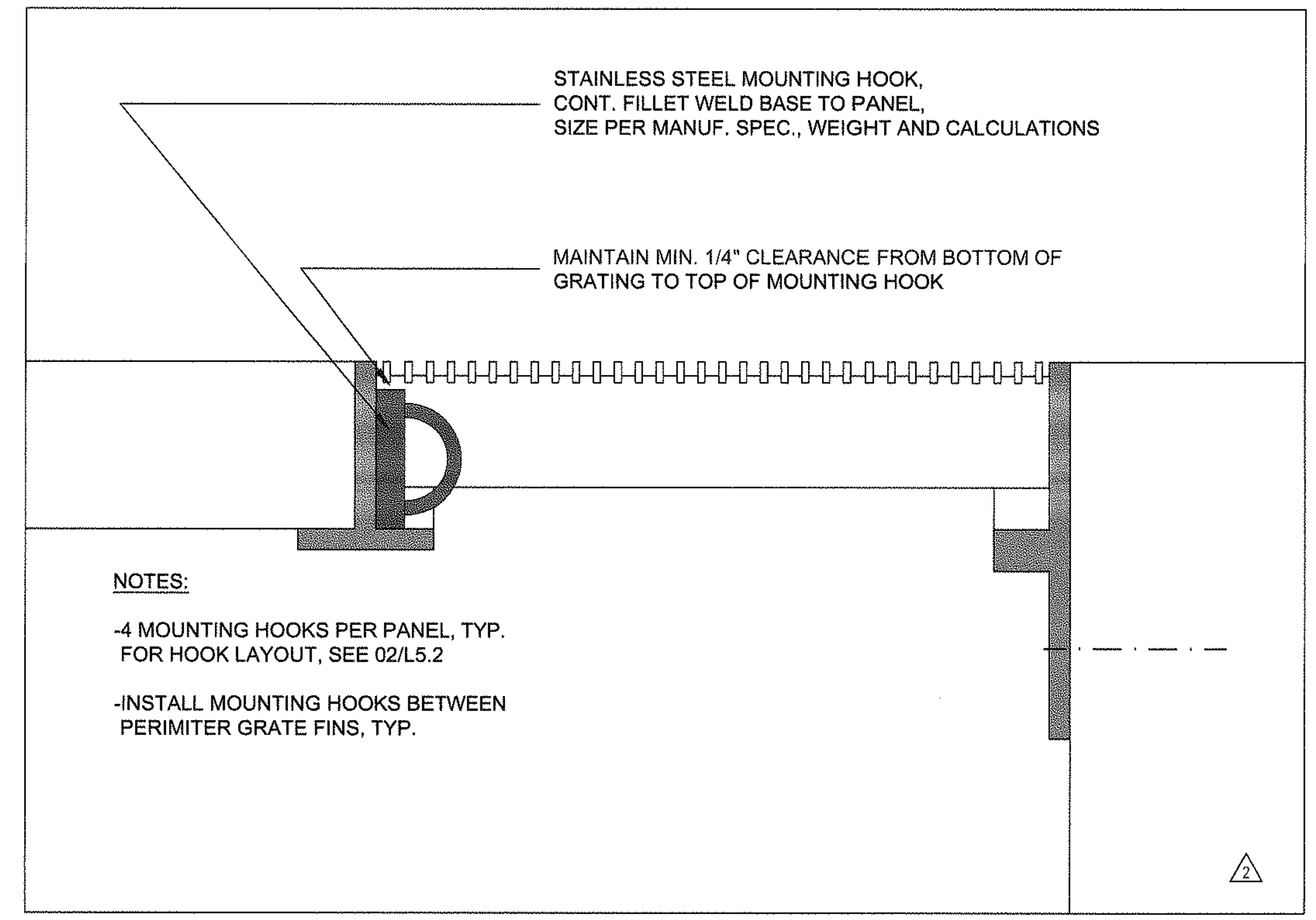


2 FOUNTAIN PANEL/FRAME SECTION

SCALE: 1"=1'-0"

NOTES:
SEE F1.0 & F1.1 FOR FOUNTAIN MECHANICAL AND ELECTRIC DETAILS/LAYOUT
-CUSTOM FABRICATE SS FOUNTAIN PANEL ASSEMBLY
-MANUF. TO SUBMIT STRUCTURAL CALCULATIONS AND SHOP DRAWINGS
-DESIGN BASED ON CIRCLE REDMONT INC. MATERIALS AND METHODS - MELBOURNE, FL
P: 1.321.259.7374
P: 1.800.358.3888

SS FRAME PER MANUF. SPEC. & CALCULATIONS
FOUNTAIN JET BLOCKOUT S.F.D. FOR MECHANICAL NOTES
SS PANEL W/ 12"X12"X1.5" GLASS, GLASS TO HAVE A SLIP-RESISTENT SANDBLAST FINISH, TYP.
SS GRATE BLOCKOUT SEE 01/L5.2 FOR NOTES
STAINLESS STEEL MOUNTING HOOK, TYP. AS SHOWN
ALIGN MOUNTING HOOK WITH PANEL FRAME, TYP. AS SHOWN

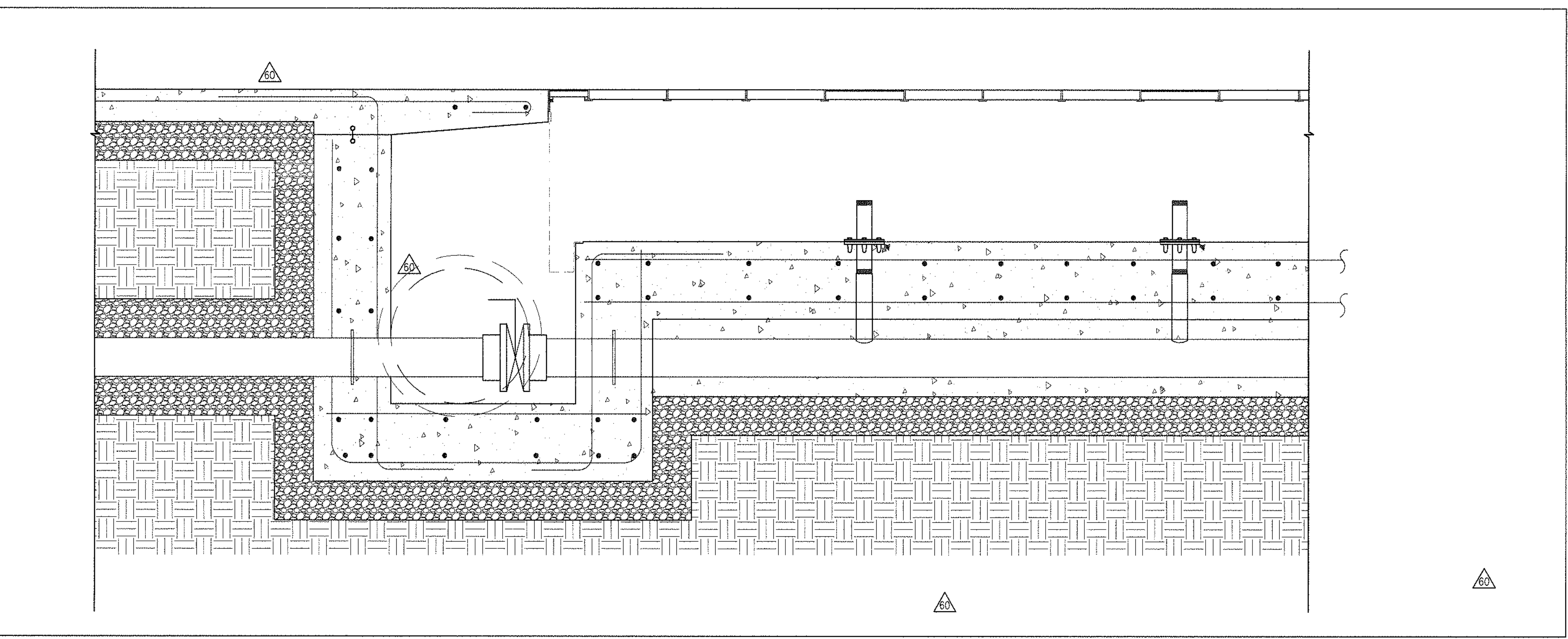


3 FOUNTAIN PANEL LIFTING HOOK DETAIL SECTION

SCALE: 1"=1'-0"

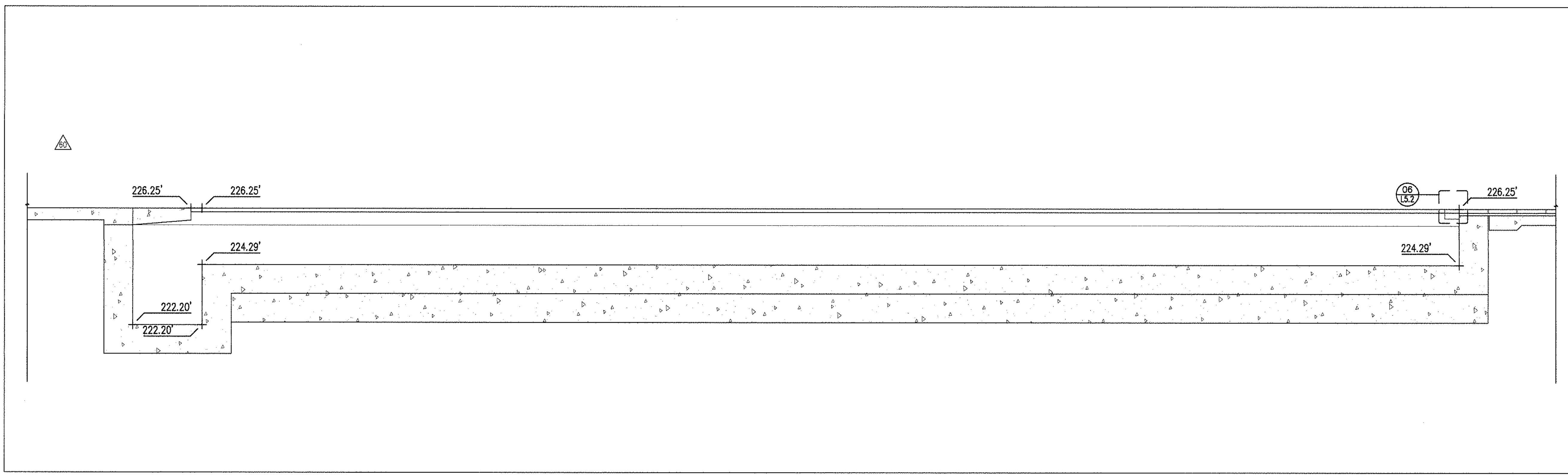
STAINLESS STEEL MOUNTING HOOK, CONT. FILLET WELD BASE TO PANEL, SIZE PER MANUF. SPEC., WEIGHT AND CALCULATIONS
MAINTAIN MIN. 1/4" CLEARANCE FROM BOTTOM OF GRATING TO TOP OF MOUNTING HOOK

NOTES:
-4 MOUNTING HOOKS PER PANEL, TYP. FOR HOOK LAYOUT, SEE 02/L5.2
-INSTALL MOUNTING HOOKS BETWEEN PERIMETER GRATE FINIS, TYP.



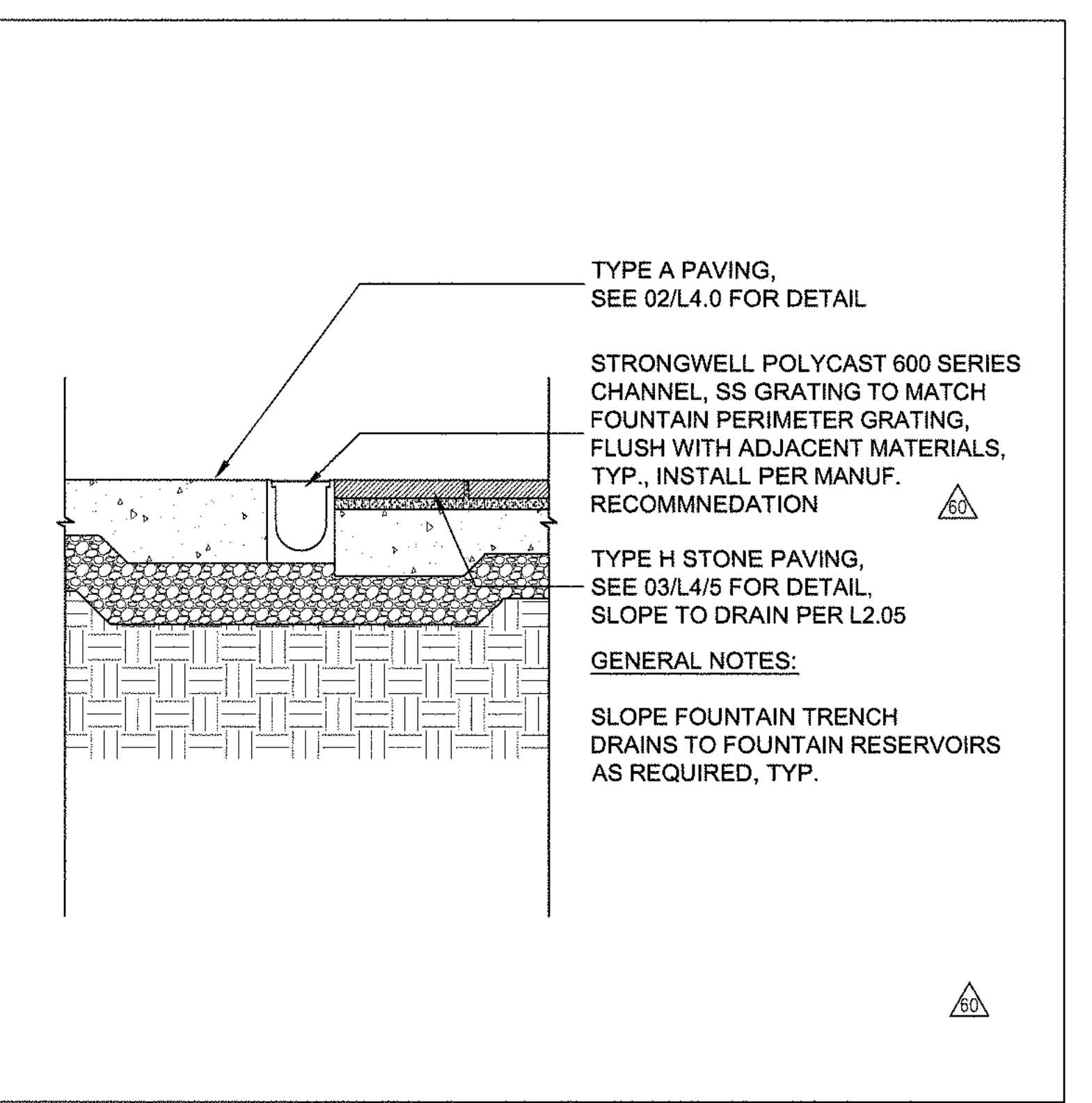
4 SUMP PIT AT EQUALIZER PIPES SECTION

SCALE: 1"=1'-0"



5 FOUNTAIN RESERVOIR SECTION/ELEVATION

SCALE: 1/2"=1'-0"



6 FOUNTAIN TRENCH DRAIN SECTION

SCALE: 1"=1'-0"

TYPE A PAVING, SEE 02/L4.0 FOR DETAIL
STRONGWELL POLYCAST 600 SERIES CHANNEL, SS GRATING TO MATCH FOUNTAIN PERIMETER GRATING, FLUSH WITH ADJACENT MATERIALS, TYP., INSTALL PER MANUF. RECOMMENDATION
TYPE H STONE PAVING, SEE 03/L4/5 FOR DETAIL, SLOPE TO DRAIN PER L2.05
GENERAL NOTES:
SLOPE FOUNTAIN TRENCH DRAINS TO FOUNTAIN RESERVOIRS AS REQUIRED, TYP.

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Revisions	Date	Description
1	2003.05.07	ADDENDUM#1
2	2003.05.30	ADDENDUM#2
3	2004.05.10	CC058

11-29-04 Updated Contract Documents

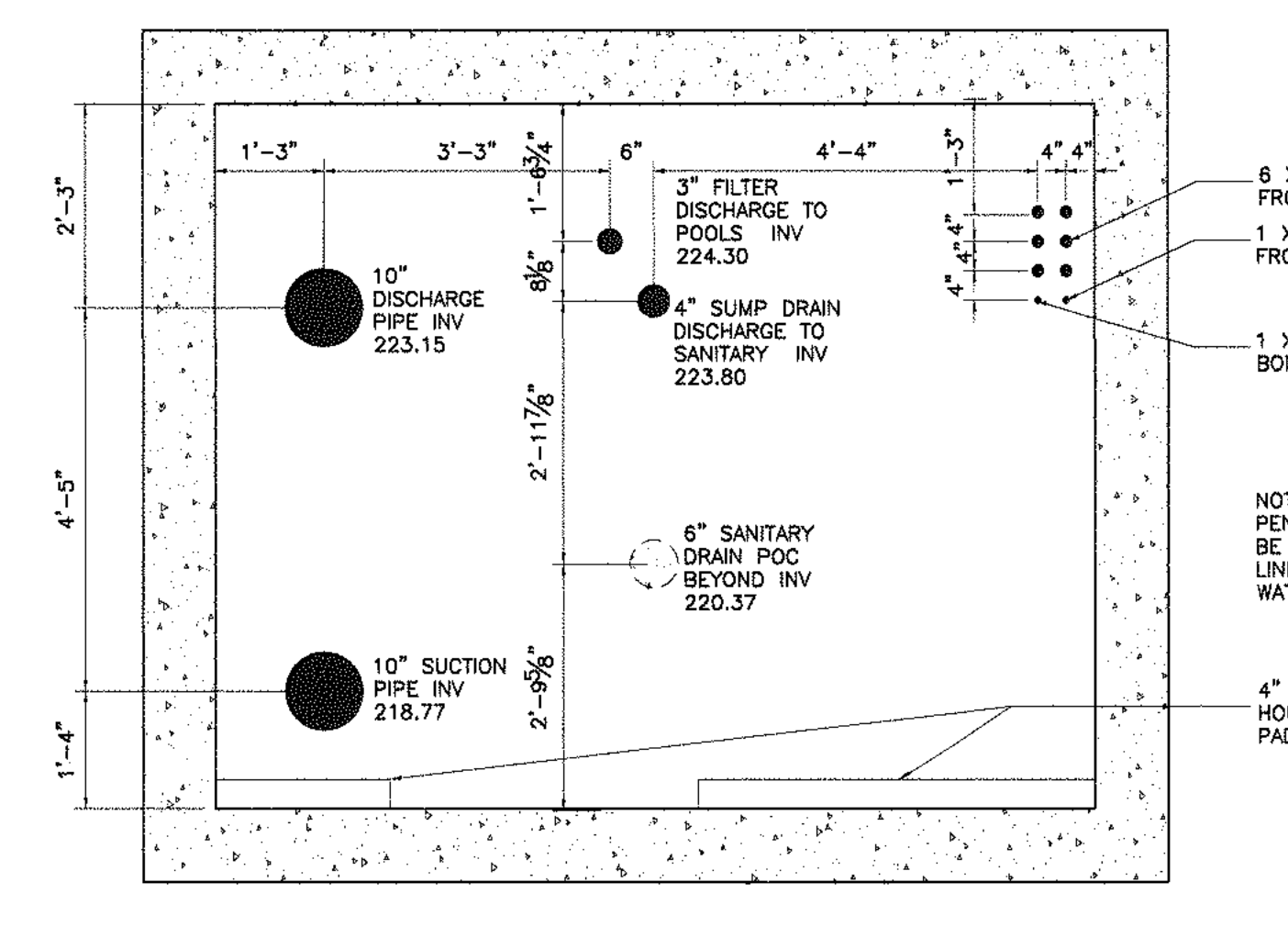
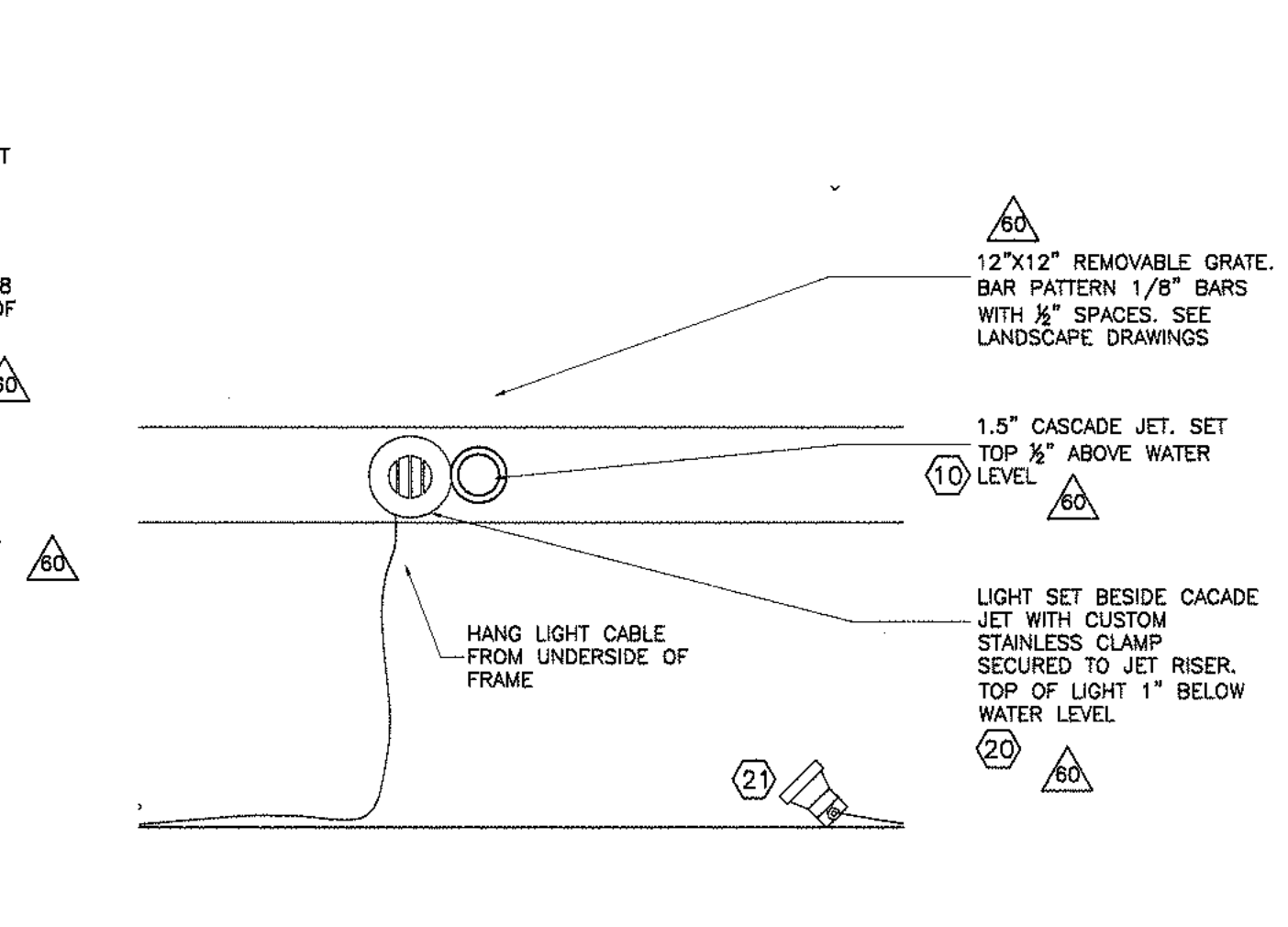
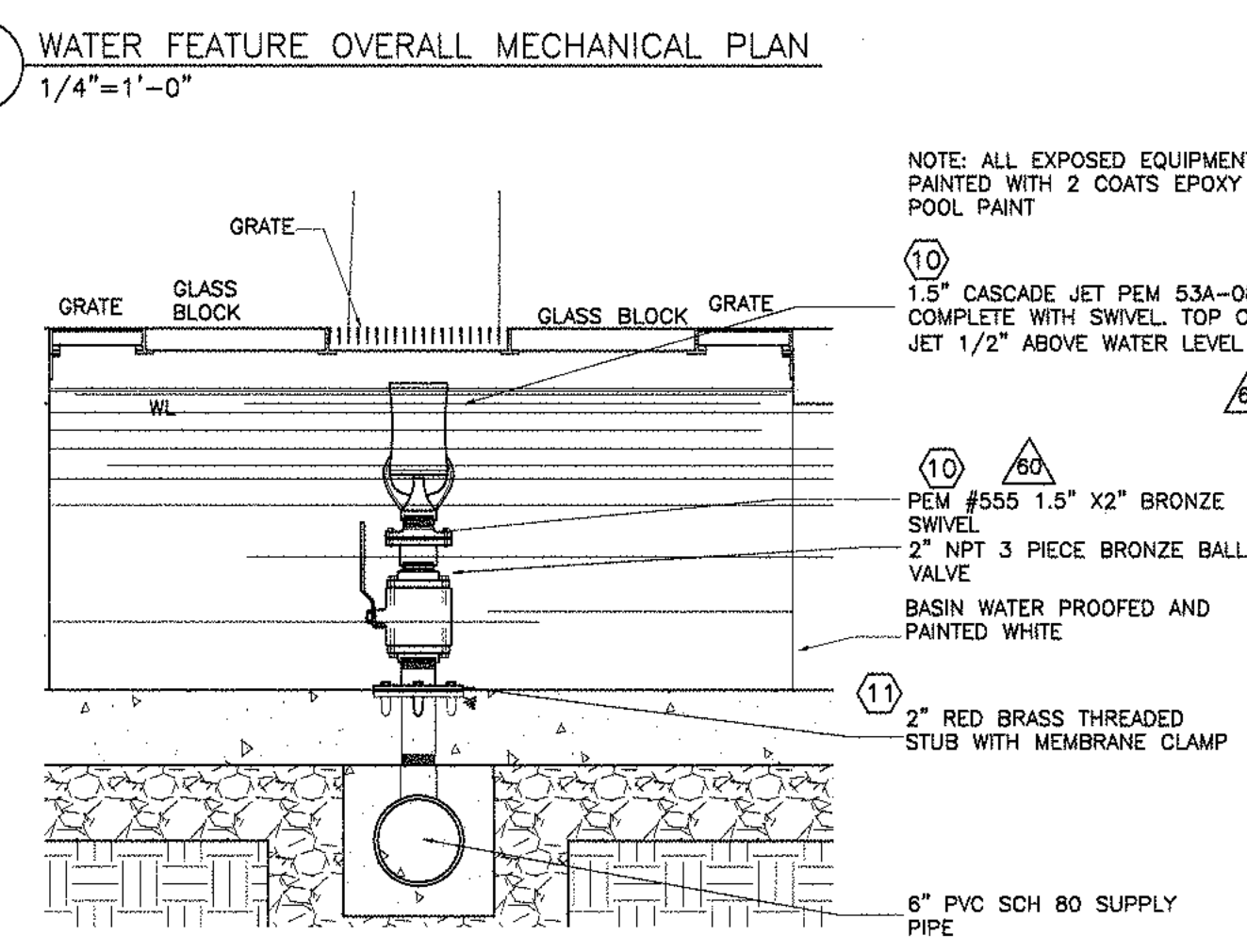
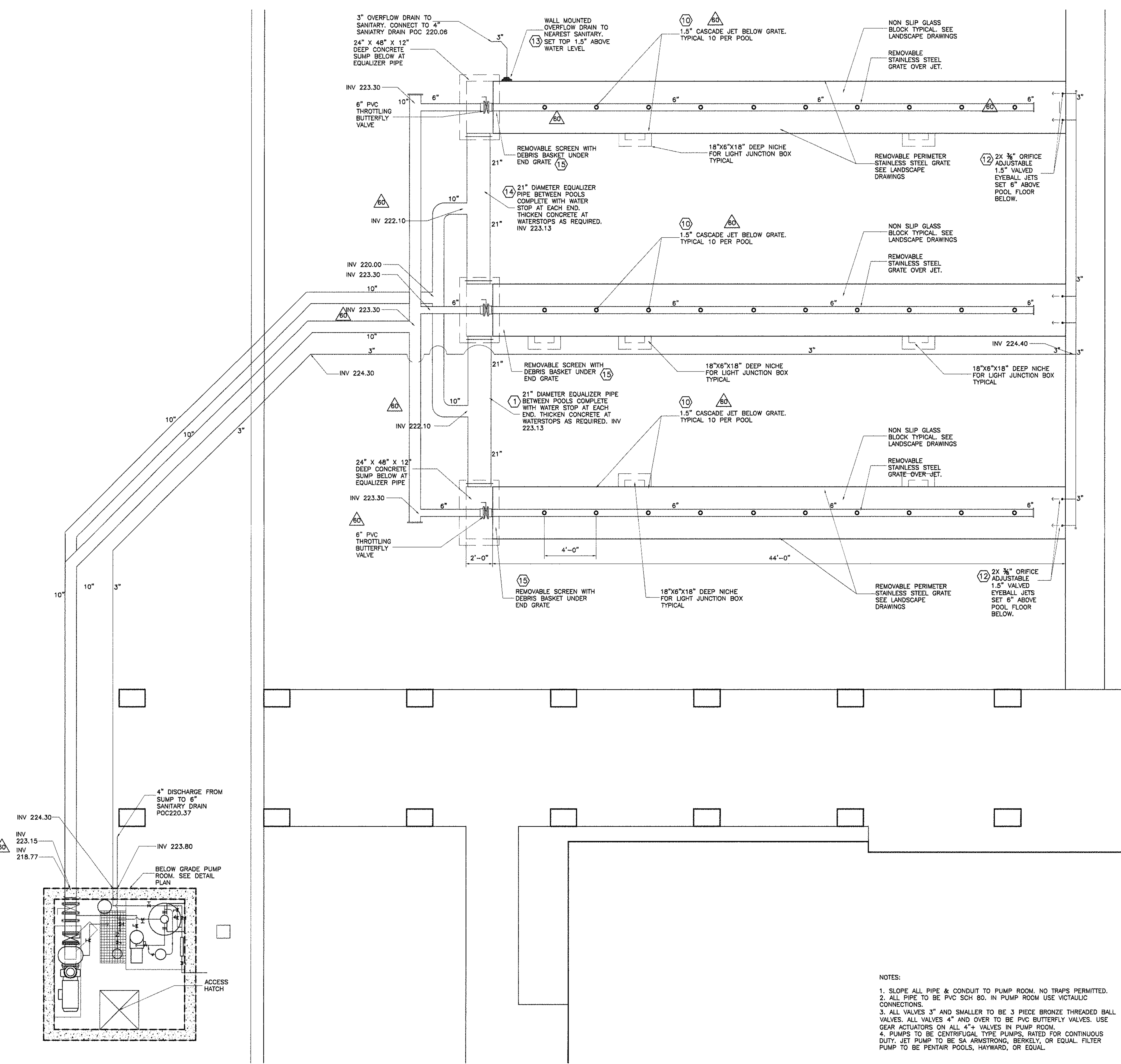
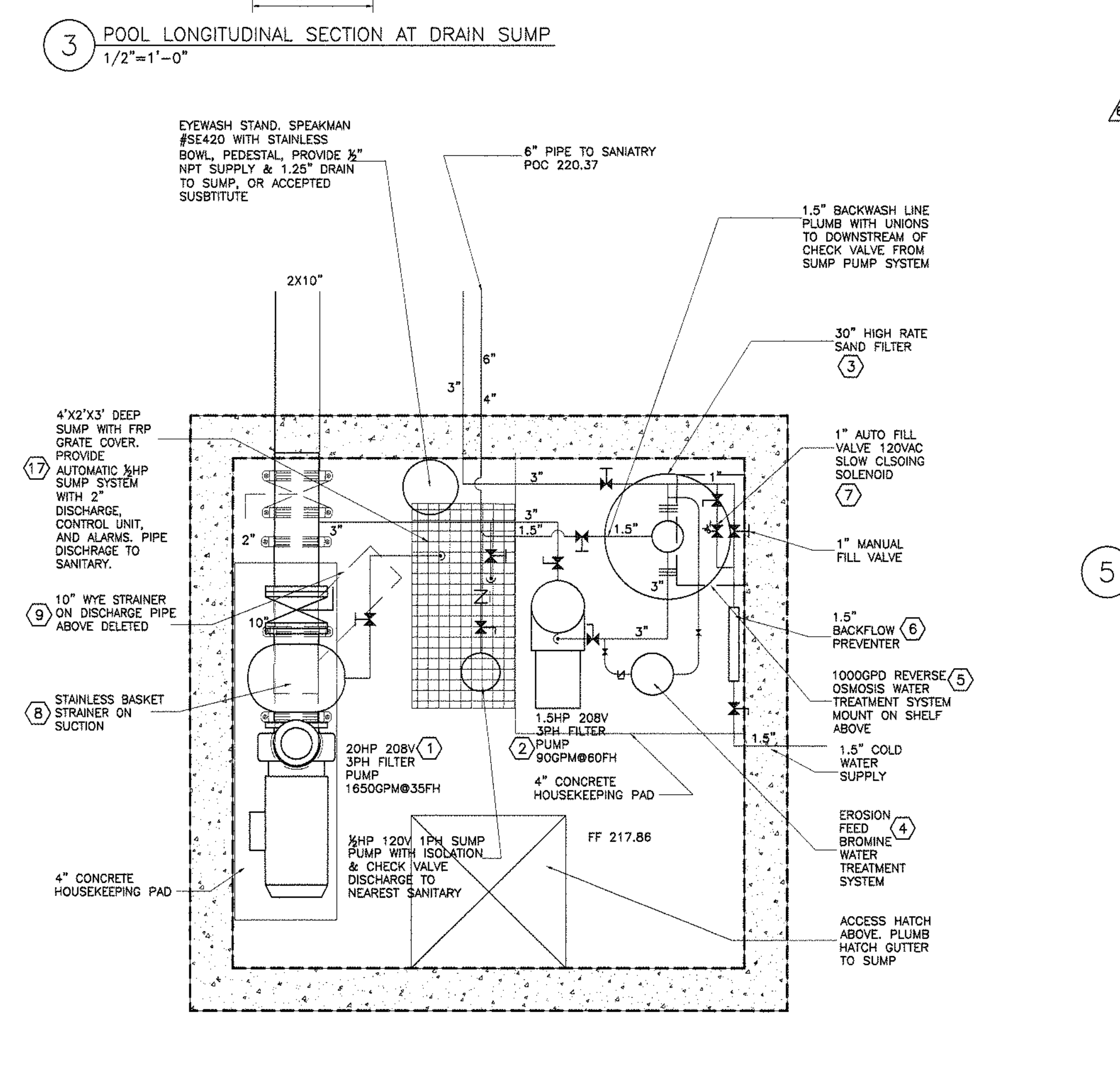
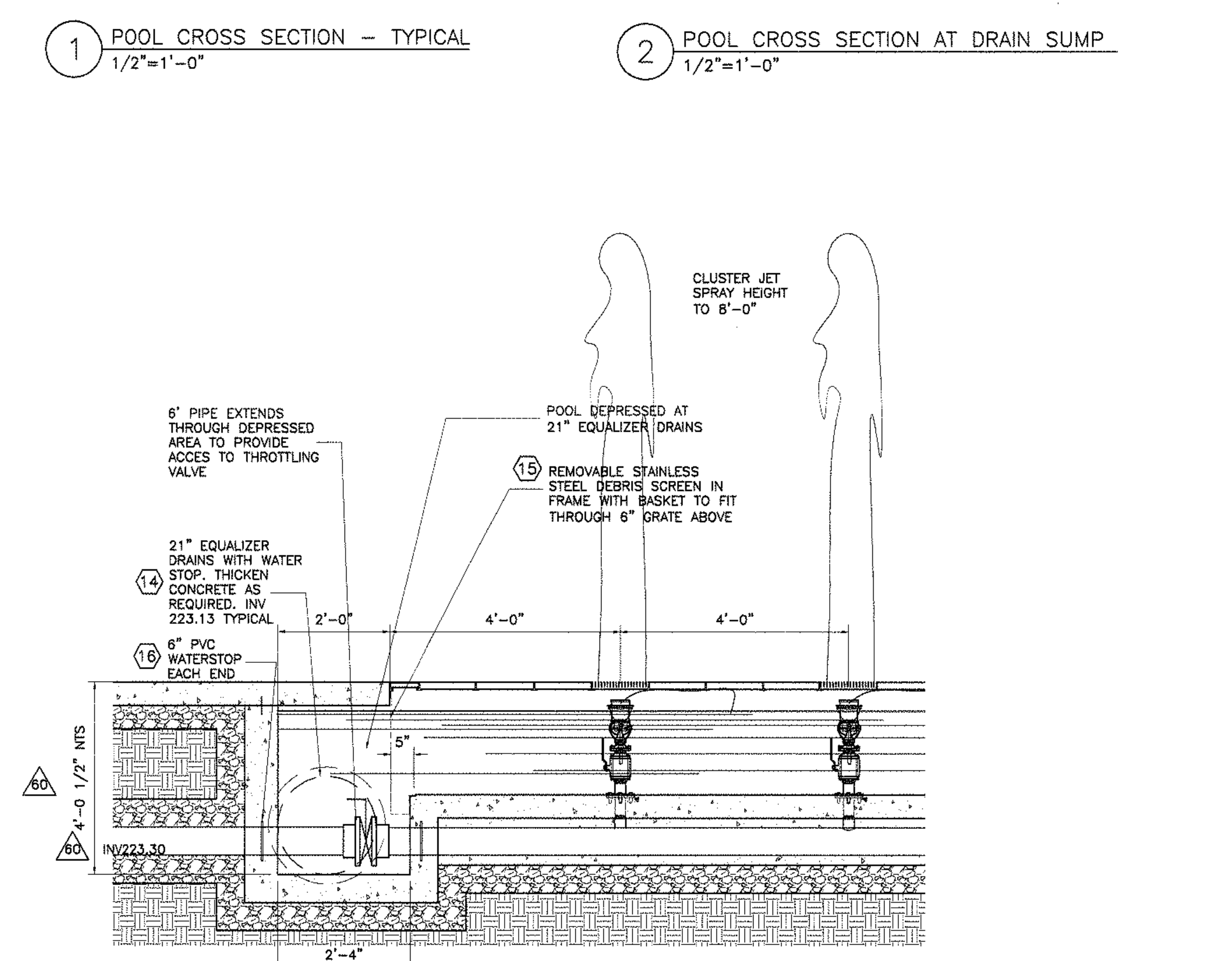
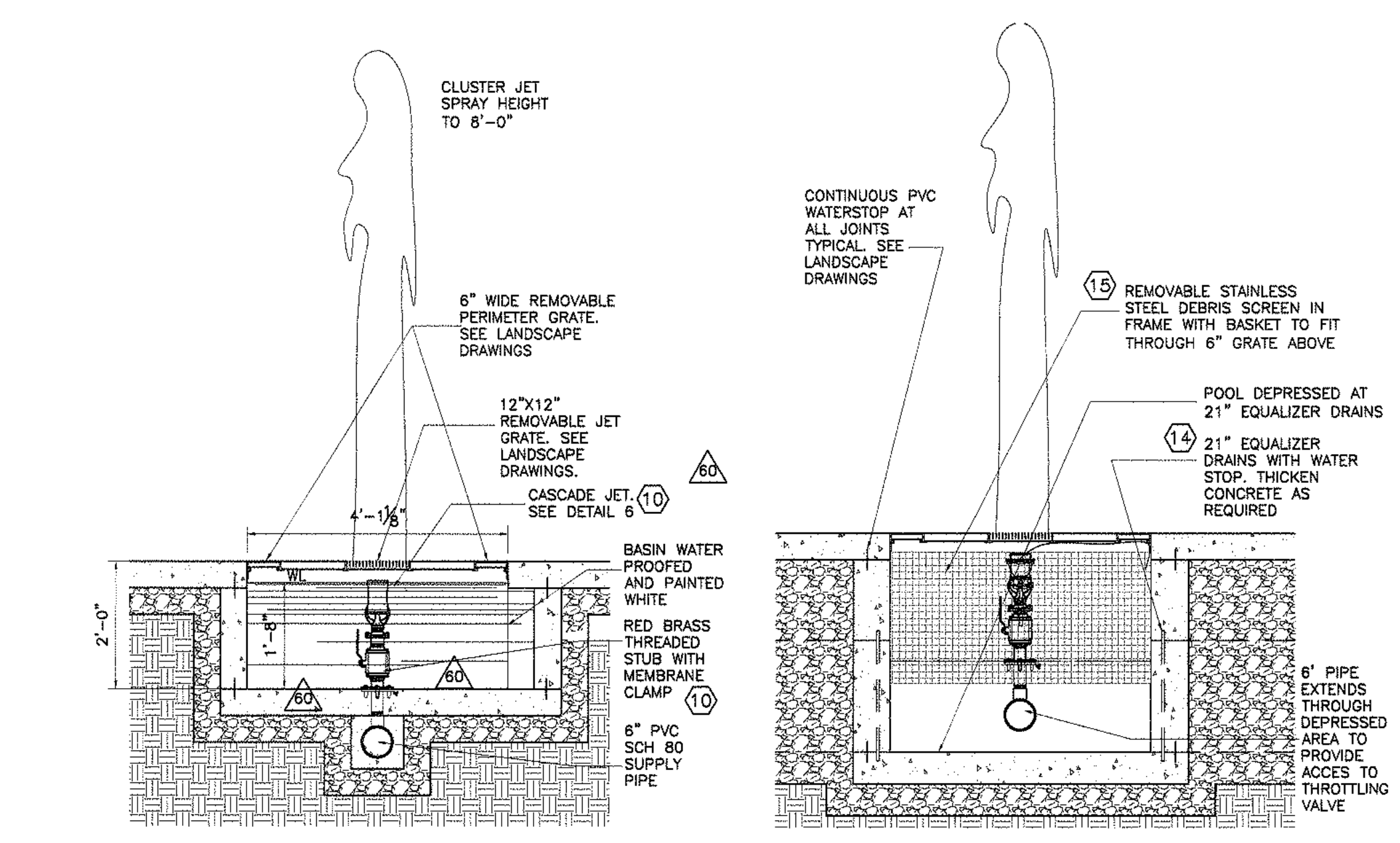
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LANDSCAPE
 DETAIL
 FOUNTAIN

Scale: VARIES
 Date: 2003.04.18
 Drawn by: BJ
 Project number: 20114.00
 Sheet number:

L5.2

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NOTES:
 1. SLOPE ALL PIPE & CONDUIT TO PUMP ROOM. NO TRAPS PERMITTED.
 2. ALL PIPE TO BE PVC SCH 80. IN PUMP ROOM USE VICTALUC CONNECTIONS.
 3. ALL VALVES 1/2" AND OVER TO BE 3" PCD BRONZE THREADED BALL VALVES. ALL VALVES 4" AND OVER TO BE PVC BUTTERFLY VALVES. USE GEAR ACTUATORS ON ALL 4" VALVES IN PUMP ROOM.
 4. PUMPS TO BE CENTRIFUGAL TYPE PUMPS, RATED FOR CONTINUOUS DUTY. JET PUMP TO BE SA ARMSTRONG, BERKELEY, OR EQUAL. FILTER PUMP TO BE PENTAIR POOLS, HAYWARD, OR EQUAL.

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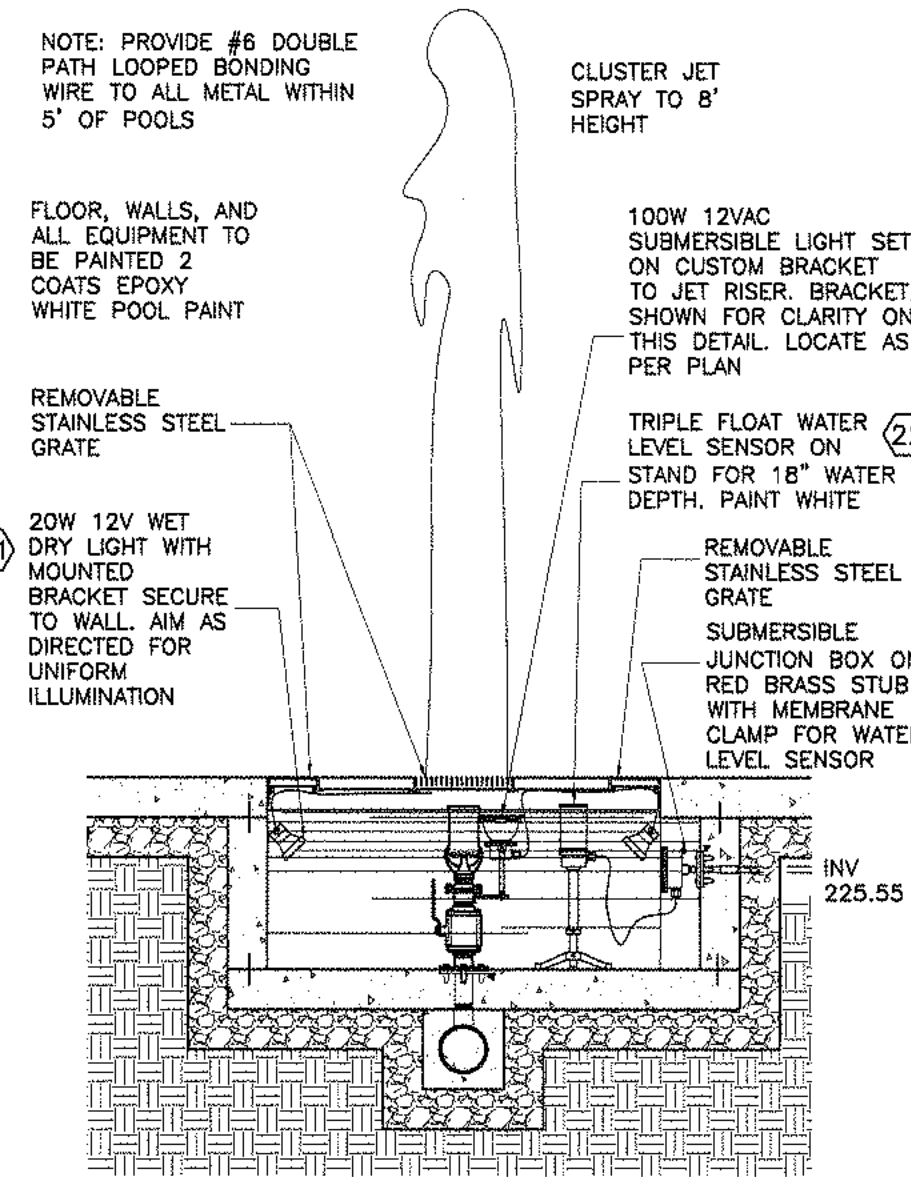
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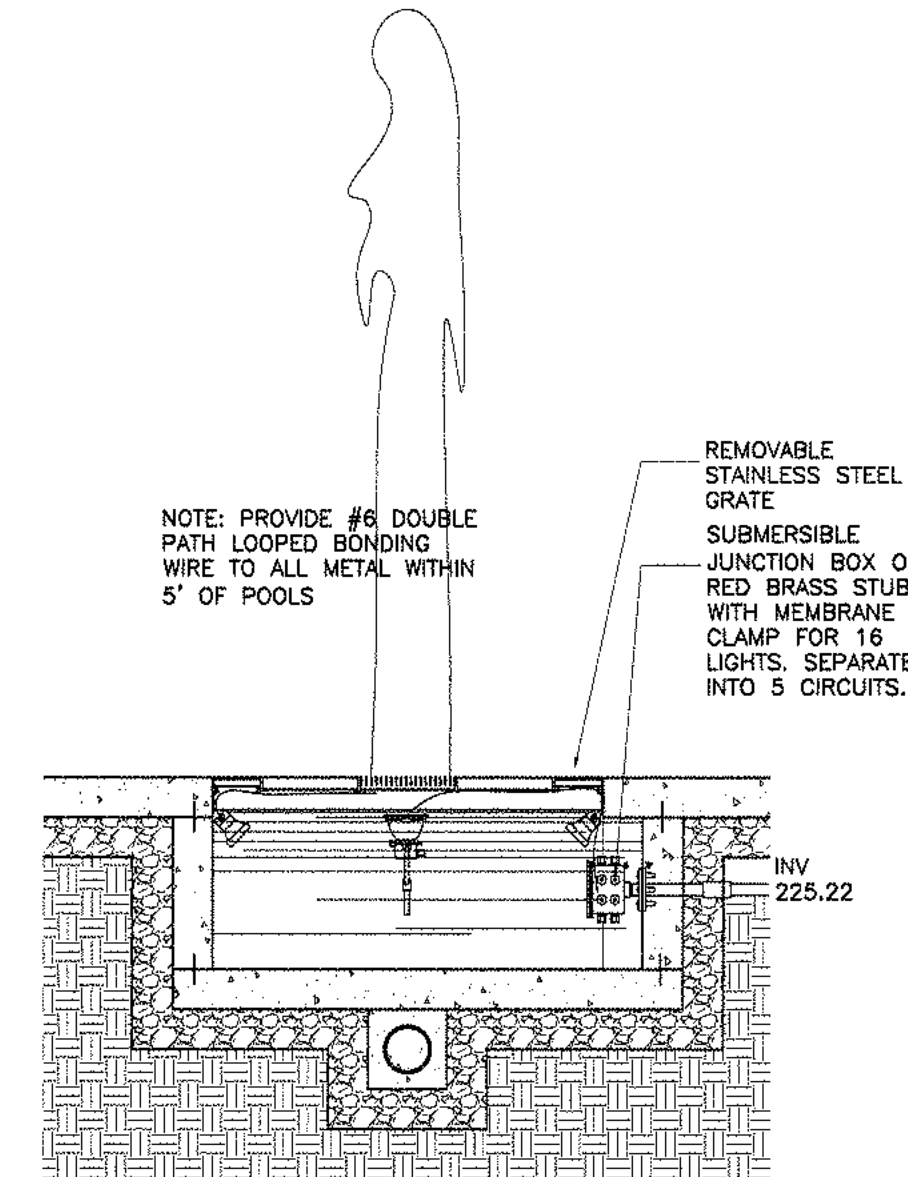
**FOUNTAIN
 MECHANICAL
 DETAILS**

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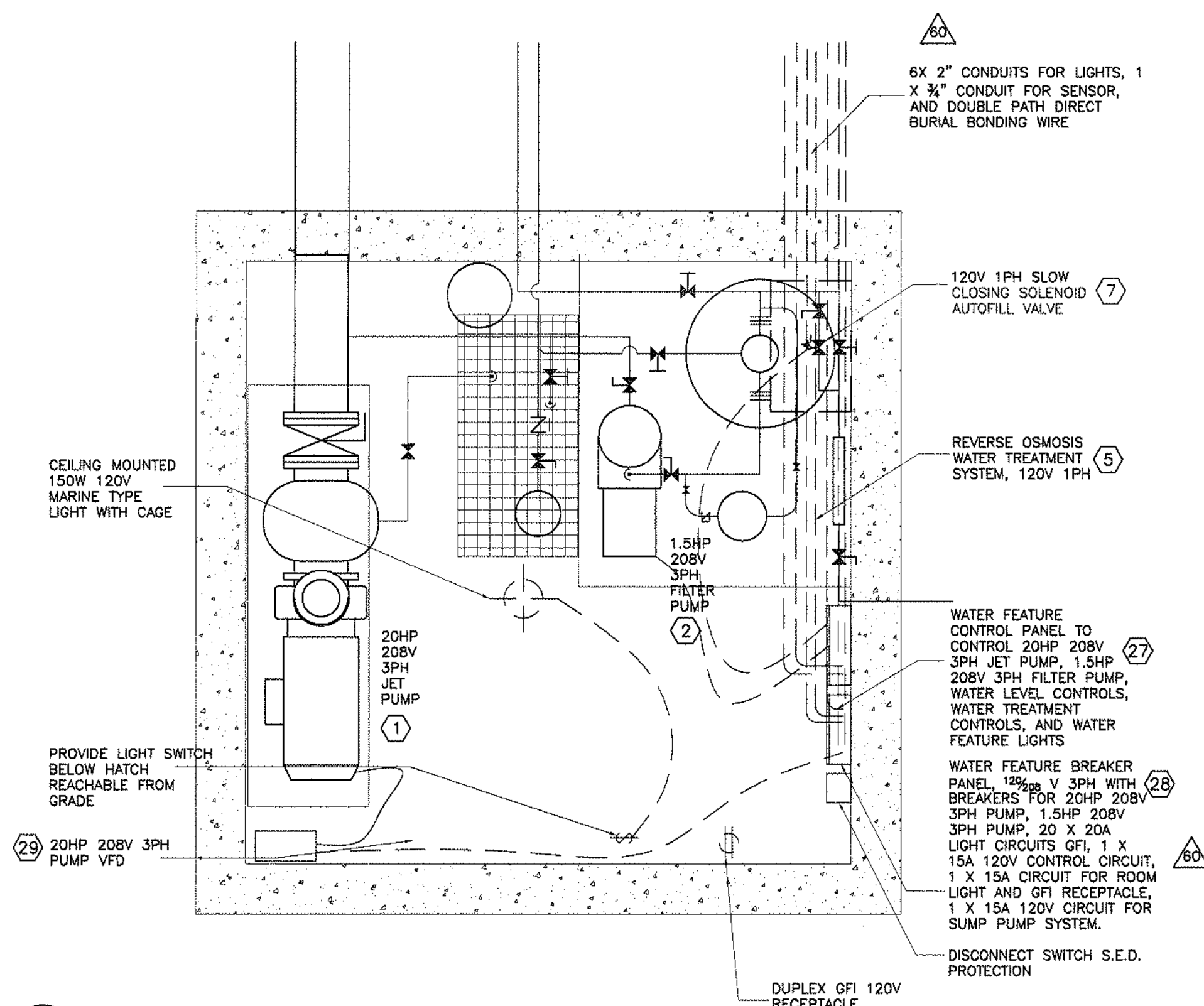
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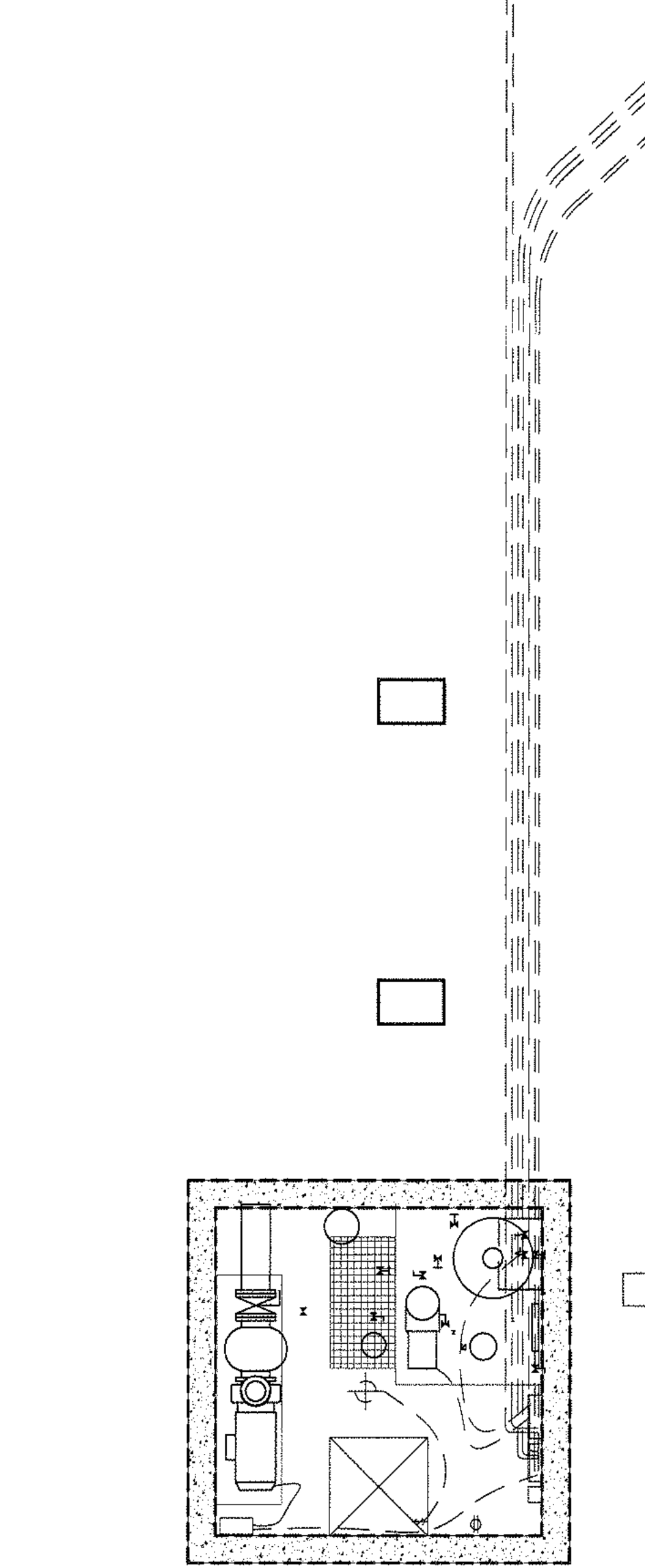
1 POOL CROSS SECTION AT JETS & SENSOR
1/2"=1'-0"



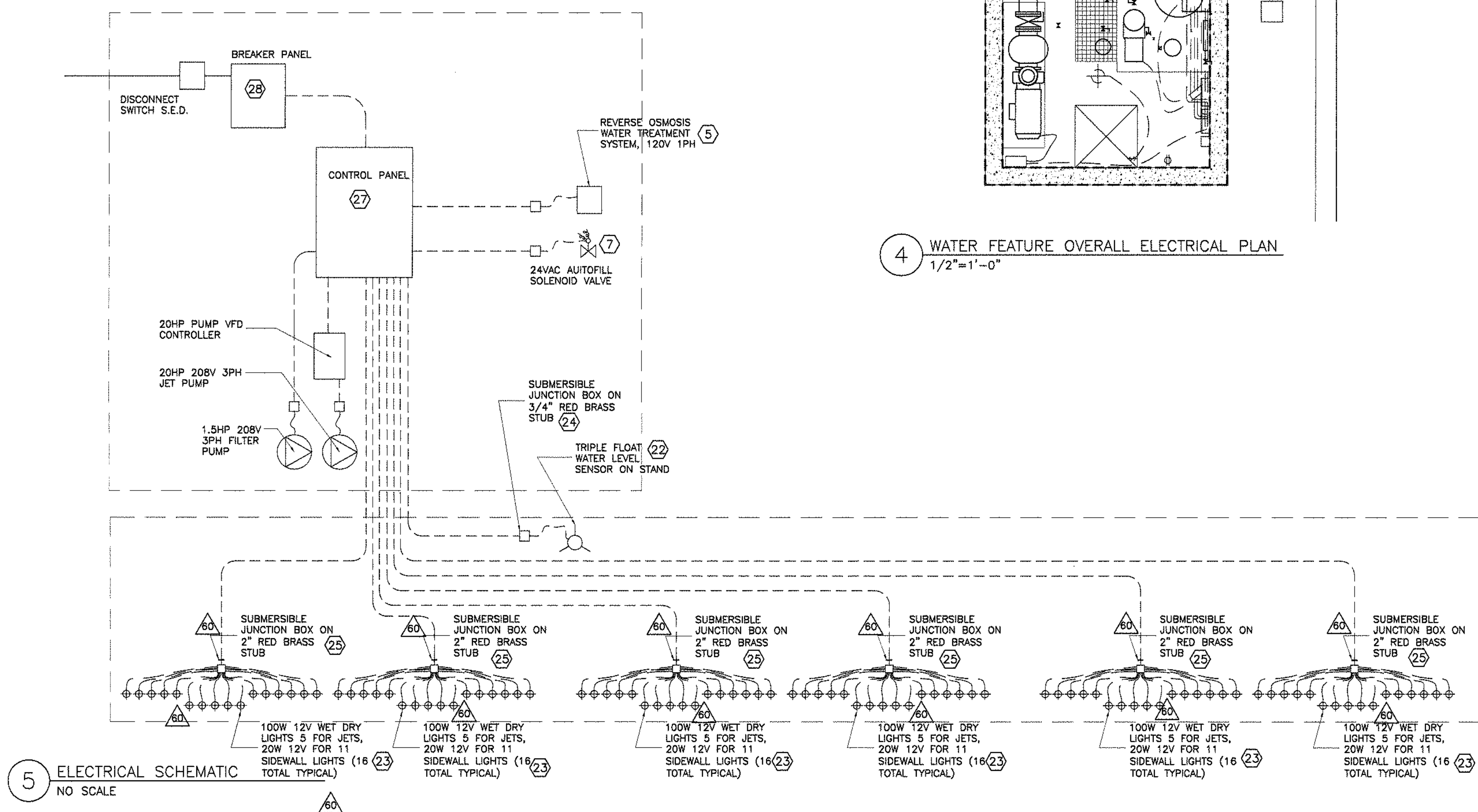
2 POOL CROSS SECTION AT JUNCTION BOX NICHE
1/2"=1'-0"



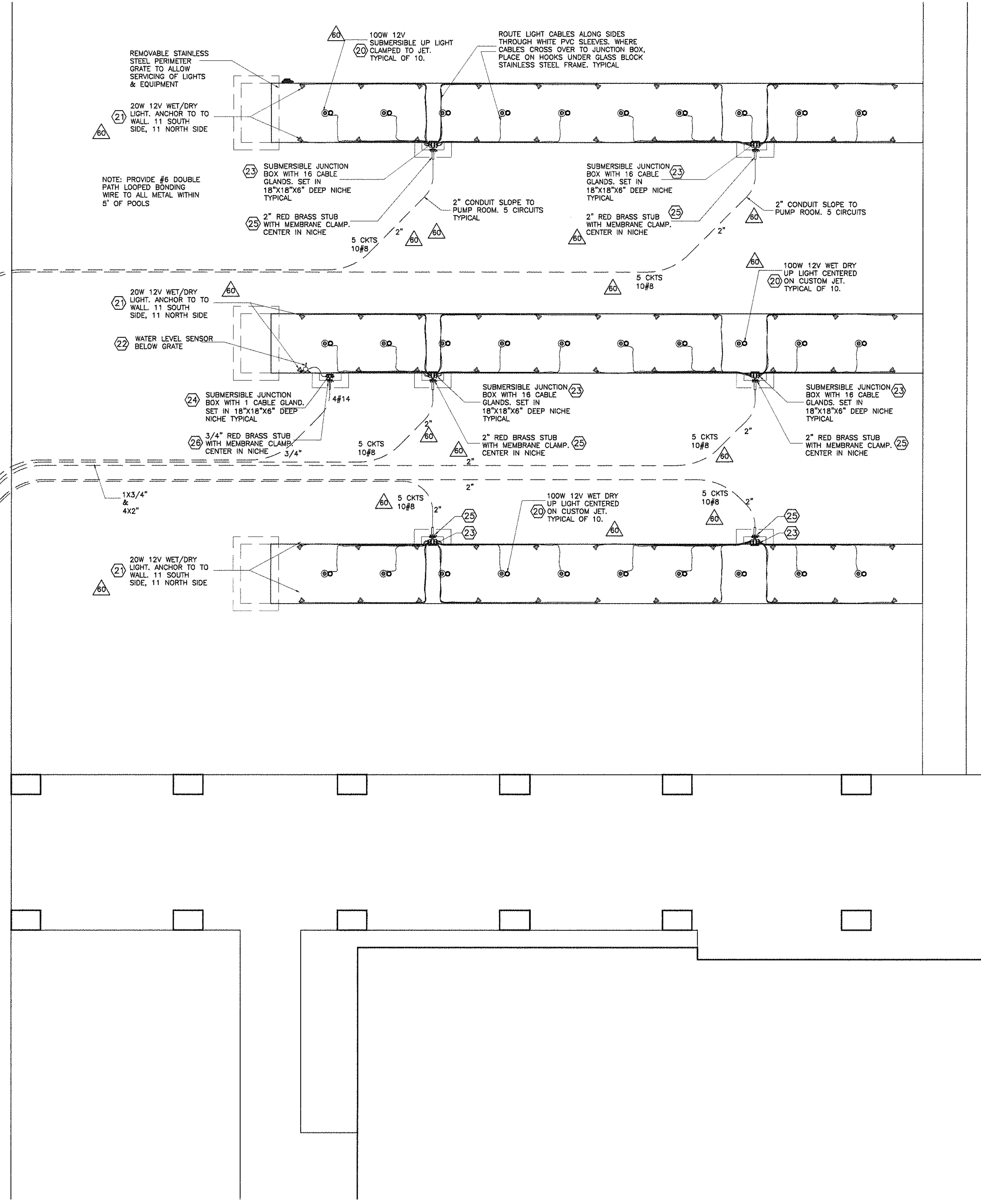
3 PUMP ROOM ELECTRICAL PLAN
1/2"=1'-0"



4 WATER FEATURE OVERALL ELECTRICAL PLAN
1/2"=1'-0"



5 ELECTRICAL SCHEMATIC
NO SCALE



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 415.433.5311 F
 Architectural
 Lighting Design
 370 Brennan Street
 San Francisco, CA 94107
 415.495.4085 T
 415.495.4660 F

Revisions

2004.05.10	CCD058
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Issue

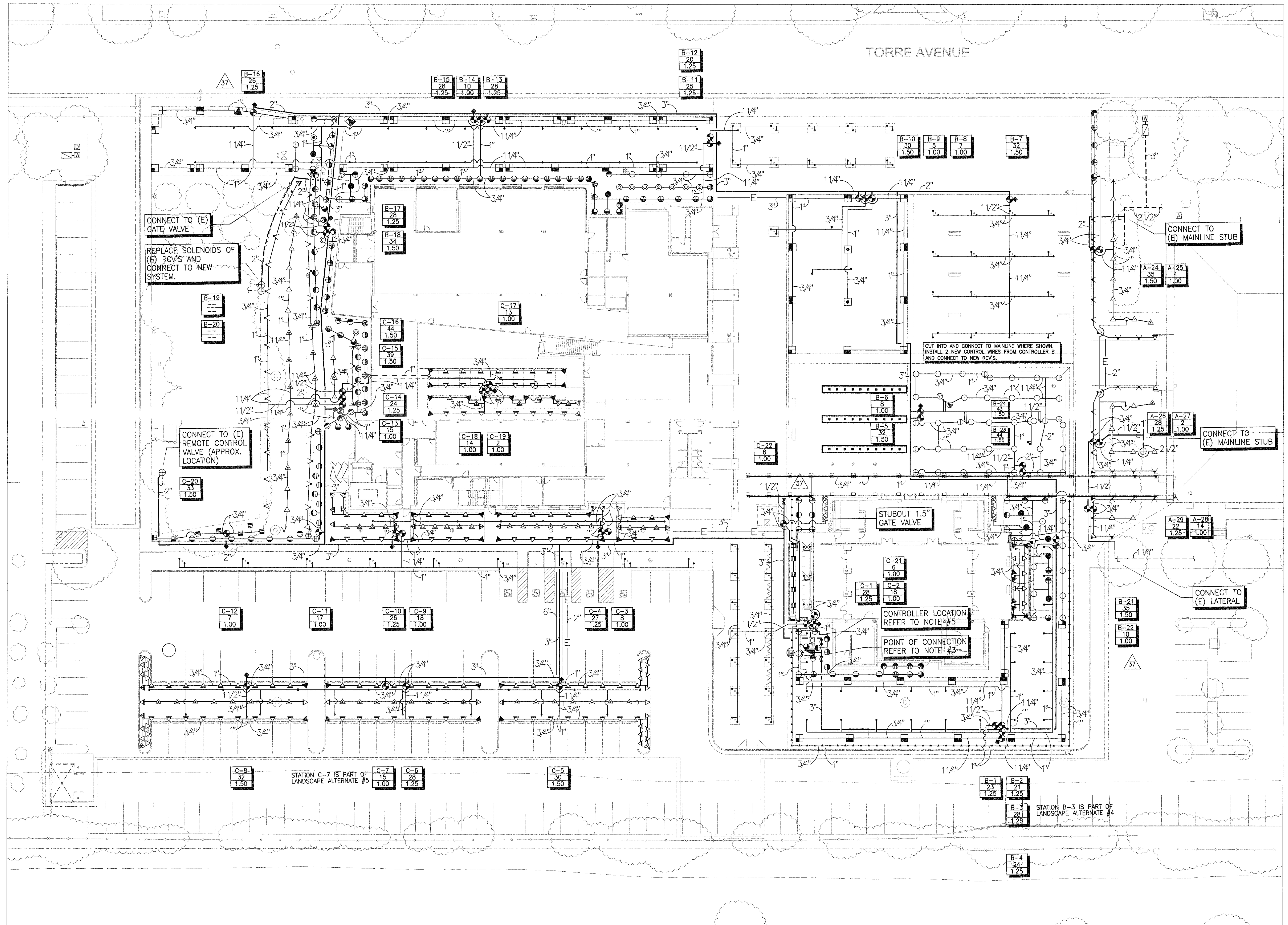
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Sheet Title

FOUNTAIN ELECTRICAL DETAILS

Scale: VARIES Date: 2003.04.18
 Drawn by: DE Project Number: 20114.00
 Sheet Number

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 architecture
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 www.smwm.com
 989 Market Street, 3rd Floor, San Francisco, CA 94103
 415 546 0400 T
 415 882 7086 F

Cupertino Civic Center
 10400 Torre Avenue, Cupertino, CA 95014

City of
 Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3333 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Rocklin, CA 95765
 916 453 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

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 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
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 343 Sansome Street
 Suite 450
 San Francisco, CA 94104
 415 398 3833 T
 415 433 5311 F

Architectural
 Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

I.S.C.
 GROUP, INC.
 IRRIGATION
 SYSTEM
 CONSULTANTS
 340 Church Street
 Phone 925/371-8230
 Livermore, CA 94550
 email iscgroup@pcbell.net

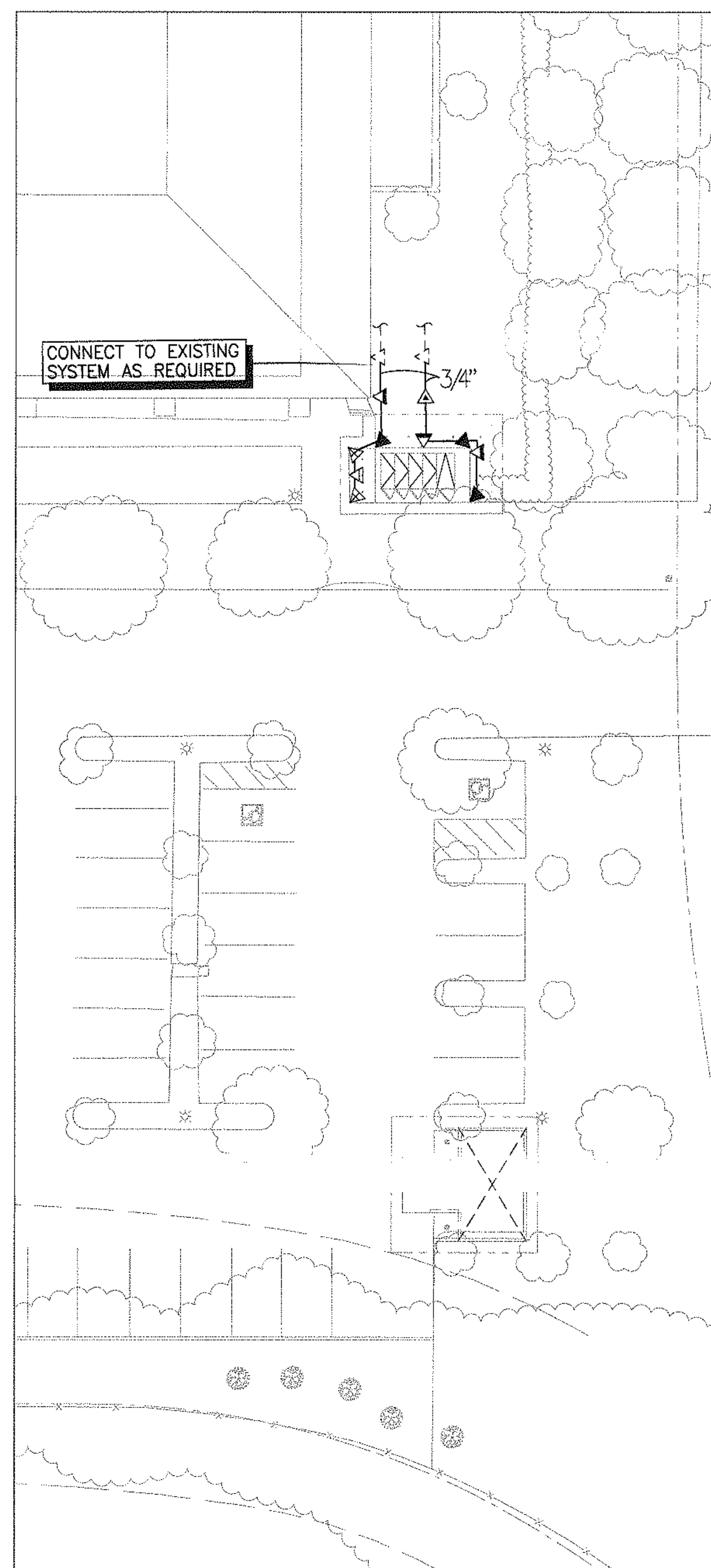
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LANDSCAPE
 IRRIGATION
 PLAN

scale 1"=20'-0" date 2003.04.18
 drawn by RA project number 20114.00
 sheet number

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PARTIAL IRRIGATION PLAN

IRRIGATION SYSTEM LEGEND		
	(E) WATER METER	
	(E) BACKFLOW PREVENTION DEVICE	
	(E) GATE VALVE	
	(E) SUPPLYLINE	
	(E) REMOTE CONTROL VALVE	
	(E) ELECTRIC CONTROLLER	
	(E) LATERAL	
	(E) SPRAY HEAD	
	IRRIGATION WATER METER-2"	-BY OTHER SECTION OF CONTRACT
	IRRIGATION BACKFLOW PREVENTION DEVICE	-FEBCO-825Y-BV-2" (PROVIDE INSULATING BLANKET AS DIRECTED BY CITY)
	ELECTRIC CONTROLLERS	-RAINMASTER-RME24SE-PROMAX
	REMOTE CONTROL VALVES	-RAINBIRD-EFB-CP SERIES
	GATE VALVES	-NIBCO-T113-IRR-LINE SIZE
	QUICK COUPLING VALVES	-RAINBIRD-33DRC
	4" POP-UP GEAR ROTOR	-HUNTER-I-20-36S-3.5LA
	4" POP-UP GEAR ROTOR	-HUNTER-I-20-ADS-2.5LA
	4" POP-UP GEAR ROTOR	-HUNTER-I-20-ADS-2.0LA
	6" POP-UP SPRAY HEADS	-TORO-570Z-6P-COM-15F,TQ,TT,H,T,Q,VAN
	6" POP-UP SPRAY HEADS	-TORO-570Z-6P-COM-12F,TQ,TT,H,T,Q
	6" POP-UP SPRAY HEADS	-TORO-570Z-6P-COM-10F,H,T,Q
	6" POP-UP SPRAY HEADS	-TORO-570Z-6P-COM-8F,H,T,Q
	6" POP-UP SPRAY HEADS	-TORO-570Z-6P-COM-4SST,EST
	12" POP-UP SPRAY HEADS	-TORO-570Z-12P-COM-15F,TQ,TT,H,T,Q,VAN
	12" POP-UP SPRAY HEADS	-TORO-570Z-12P-COM-12F,TQ,TT,H,T,Q
	12" POP-UP SPRAY HEADS	-TORO-570Z-12P-COM-10F,H,T,Q
	12" POP-UP SPRAY HEADS	-TORO-570Z-12P-COM-8F,H,T,Q
	12" POP-UP SPRAY HEADS	-TORO-570Z-12P-COM-4SST,EST
	BUBBLER-FLOODING	-TORO-514-20
	IRRIGATION SUPPLYLINE-2" & LARGER	-1120/CLASS 315 PVC PIPE -18" COVER
	IRRIGATION SUPPLYLINE-1 1/2" & SMALLER	-1120/SCHEDULE 40 PVC PIPE -18" COVER
	IRRIGATION SPRINKLERLINE	-1120/SCHEDULE 40 PVC PIPE -12" COVER
	ELECTRICAL CONDUIT	-1120/SCHEDULE 40 PVC CONDUIT -24" COVER
	SLEEVE	-1120/SCHEDULE 40 PVC PIPE -24" COVER
	STRUCTURAL PENETRATION	-BY MECHANICAL SECTION OF CONTRACT
	PIPING THROUGH STRUCTURE	-BY PLUMBING SECTION OF CONTRACT
	CONDUIT THROUGH STRUCTURE	-BY ELECTRICAL SECTION OF CONTRACT
	CONTROLLER STATION NUMBER	
	GALLONS PER MINUTE THROUGH VALVE	
	CONTROL VALVE SIZE	
	BUBBLER-PRESSURE COMPENSATING	-TORO-570S-FB-25-PC
	4" POP-UP GEAR ROTOR	-HUNTER-I-20-ADS-2.5LA

- ### IRRIGATION SYSTEM NOTES
- SPRINKLER SYSTEM IS DESIGNED FOR A MAXIMUM OF 80 G.P.M. AT 75 P.S.I. STATIC PRESSURE. VERIFY PRESSURE OF 75 P.S.I. AT THE POINT OF CONNECTION PRIOR TO INSTALLATION OF THE IRRIGATION SYSTEM. NOTIFY IRRIGATION CONSULTANT IF MEASURED PRESSURE IS MORE THAN 80 P.S.I. OR LESS THAN 75 P.S.I.
 - NOTIFY IRRIGATION CONSULTANT SIX (6) DAYS PRIOR TO INSTALLATION FOR A PRE-INSTALLATION CONFERENCE AND FIELD REVIEW COORDINATION FOR TRENCH DEPTHS, ASSEMBLY REVIEW, PRESSURE TESTS, COVERAGE TESTS, PRE- MAINTENANCE AND FINAL REVIEWS. A CONTINUITY TEST WILL BE REQUIRED FOR CONTROL WIRE STUBOUTS. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE IRRIGATION CONSULTANT.
 - 2" IRRIGATION WATER METER IS PROVIDED FOR IN IMMEDIATE VICINITY BY OTHER SECTION OF CONTRACT. CONNECT TO DISCHARGE SIDE OF IRRIGATION WATER METER.
 - INSTALL BACKFLOW PREVENTION DEVICE APPROXIMATELY WHERE INDICATED AS DETAILED AND ACCORDING TO LOCAL CODES. PRIME AND WRAP WITH A 50% OVERLAP ALL GALVANIZED STEEL PIPE AND FITTINGS BELOW GRADE WITH 10 MIL CORROSION PROTECTION TAPE (SCOTCHTRAP OR EQUAL). B.P.D. SHALL BE TESTED AND CERTIFIED PRIOR TO FINAL INSPECTION.
 - INSTALL CONTROLLERS IN ENCLOSURES WHERE INDICATED. EXACT LOCATION OF CONTROLLERS TO BE DETERMINED AT JOBSITE BY ARCHITECT. 120 VOLT ELECTRICAL SUPPLY IS PROVIDED FOR IN IMMEDIATE VICINITY BY ELECTRICAL SECTION OF CONTRACT. MAKE FINAL 120 VOLT ELECTRICAL CONNECTION. USE THIN WALL METAL CONDUIT ABOVE GRADE. USE WATERPROOF CONNECTIONS FOR OUTDOOR INSTALLATION. PROGRAM CONTROLLERS TO NOT EXCEED MAXIMUM FLOW RATE STATED IN NOTE NO. 1. INSTALL PER MANUFACTURERS SPECIFICATIONS. CONTROLLERS SHALL BE PROPERLY GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND CONFORM TO LOCAL REGULATIONS. INSTALL AS DETAILED. SEAL ALL CONDUIT HOLES WITH SILICONE OR EQUAL. PROGRAM CONTROLLERS TO IRRIGATE USING MULTIPLE REPEAT CYCLES OF SHORT DURATIONS. CARE SHALL BE TAKEN TO PREVENT RUNOFF OF WATER AND SLOPE/SOIL EROSION DUE TO PROLONGED APPLICATIONS OF WATER.
 - INSTALL REMOTE CONTROL VALVES, QUICK COUPLING VALVES GATE VALVES AS DETAILED. INSTALL R.C.V. ID TAGS MANUFACTURED BY T. CHRISTY ENT. STANDARD SIZE, 1 1/8" HOT STAMPED BLACK LETTERS ON YELLOW BACKGROUND ON SOLENOID WIRES. LETTERS TO CONFORM TO CONTROLLER/STATION NUMBER.
 - ALL SPRINKLER HEADS SHALL HAVE RISER ASSEMBLIES AS DETAILED. INSTALL CHECK VALVES AS SHOWN ON BUBBLER RISER ASSEMBLY DETAILS WHERE LOW HEAD DRAINAGE OCCURS. NOTE ESPECIALLY TO AVOID DRAINAGE AT SIDEWALKS AND OTHER POINTS WHERE PUDDLING WILL CAUSE DAMAGE OR HAZARD. ALL HIGH POP-UPS ADJACENT TO CURBS SHALL BE INSTALLED AT PAINTED PARKING STALL LINES WHERE INDICATED. LEAN SPRINKLER HEADS ON SLOPES (ANGLE VARIES DEPENDING UPON TRAJECTORY OF SPRAY AND DEGREE OF SLOPE) TO MAXIMIZE UPHILL THROW. INSTALL BUBBLERS ON UP HILL SIDE OF SHRUBS AND TREES.
 - ADJUST ALL SPRINKLER HEADS FOR COMPLETE COVERAGE WITH MINIMUM SPRAY ON BUILDINGS, ASPHALT, SIDEWALKS, ROADWAYS, ETC., AND THROTTLE FLOW CONTROL AT VALVES FOR OPTIMUM OPERATION. WHEN THROTTLING IS NOT USED TO CONTROL MISTING OR OVERSPRAY, BACK-OFF MANUAL FLOW CONTROL 1/2 TO 1 1/2 TURNS FROM POINT WHERE CLOSING EFFECTS SPRINKLER COVERAGE. ADJUST ALL BUBBLERS AT TREES AS REQUIRED FOR DEEP ROOT WATERING.
 - ALL PIPE UNDER ASPHALT PAVEMENT SHALL BE SCHEDULE 40 PVC FOR 1 1/2" AND SMALLER AND CLASS 315 PVC FOR 2" AND LARGER. ALL PIPE AND WIRING UNDER ASPHALT PAVEMENT SHALL BE INSTALLED AT A TWENTY FOUR INCH (24") DEPTH BELOW GRADE. ALL PIPE AND WIRING UNDER ASPHALT PAVEMENT SHALL BE INSTALLED IN PVC SCHEDULE 40 SLEEVE AND ELECTRICAL CONDUIT. SLEEVE AND ELECTRICAL CONDUIT SHALL EXTEND SIX INCHES (6") BEYOND EDGE OF PAVEMENT OR CURB. INSTALL SAND FOR BACKFILL IN ASPHALT PAVEMENT AREAS TO 6" COVER ABOVE PIPE. SURROUND PIPE WITH SAND IN AREAS WHERE ROCKY TERRAIN IS ENCOUNTERED.
 - ALL VALVE CONTROL WIRE SHALL BE MINIMUM NO. 14 AWG COPPER UL APPROVED FOR DIRECT BURIAL IN GROUND. CONNECT WIRES AS DETAILED PER MANUFACTURERS SPECIFICATIONS. RUN ONE (1) EXTRA CONTROL WIRE OF DIFFERENT COLOR THROUGH ALL VALVE LOCATIONS FROM EACH CONTROLLER. EACH WIRE AT VALVES SHALL HAVE 24" EXCESS COILED LOOP IN VALVE BOXES. TAPE WIRES IN BUNDLES EVERY TEN FEET (10').
 - AT JOB COMPLETION, SUPPLY OWNER WITH TWO (2) SETS OF MATCHING Q.C.V. KEYS AND HOSE SWIVELS, AND TWO (2) PADLOCKS WITH KEYS FOR EACH CONTROLLER ENCLOSURE.
 - ALL PENETRATIONS FOR COPPER PIPE AND ELECTRICAL CONDUIT THROUGH STRUCTURAL SLAB SHALL BE PROVIDED AND SEALED IN MECHANICAL SECTION OF CONTRACT. WORK SHALL INCLUDE ALL INSTALLATION OF COPPER PIPING AND ELECTRICAL CONDUIT UNDER STRUCTURE UP TO AND INCLUDING STUBOUTS INTO PLANTERS ON STRUCTURE AND ON GRADE. CONNECT TO COPPER PIPE STUBOUTS USING PVC SCHEDULE 80 NIPPLES (THREADED ONE END) AND FITTINGS. CARE MUST BE TAKEN WHEN CONNECTING TO PREVENT BREAKING OF SEALS AT STUBOUTS. INSTALL LOW VOLTAGE CONTROL/COMMON WIRING THROUGH ELECTRICAL CONDUITS PROVIDED THROUGH/UNDER STRUCTURE.
 - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS PROJECT.

989 Market Street, 3rd Floor, San Francisco, CA 94103
 415 546 0400 T
 415 582 7086 F
 www.smmw.com

SMW
 architecture
 interiors
 planning
 graphic design

City of
 Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3333 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

Forell/Essner
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

Flack + Kurtz
 343 Sansome Street
 Suite 450
 San Francisco, CA 94104
 415 398 3833 T
 415 433 5311 F

Architectural
 Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

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I.S.C.
 GROUP, INC.
 IRRIGATION
 SYSTEM
 CONSULTANTS
 340 Church Street
 Phone 925/371-8230
 Livermore, CA 94550
 Fax 925/371-8240
 email isgroup@pacbell.net

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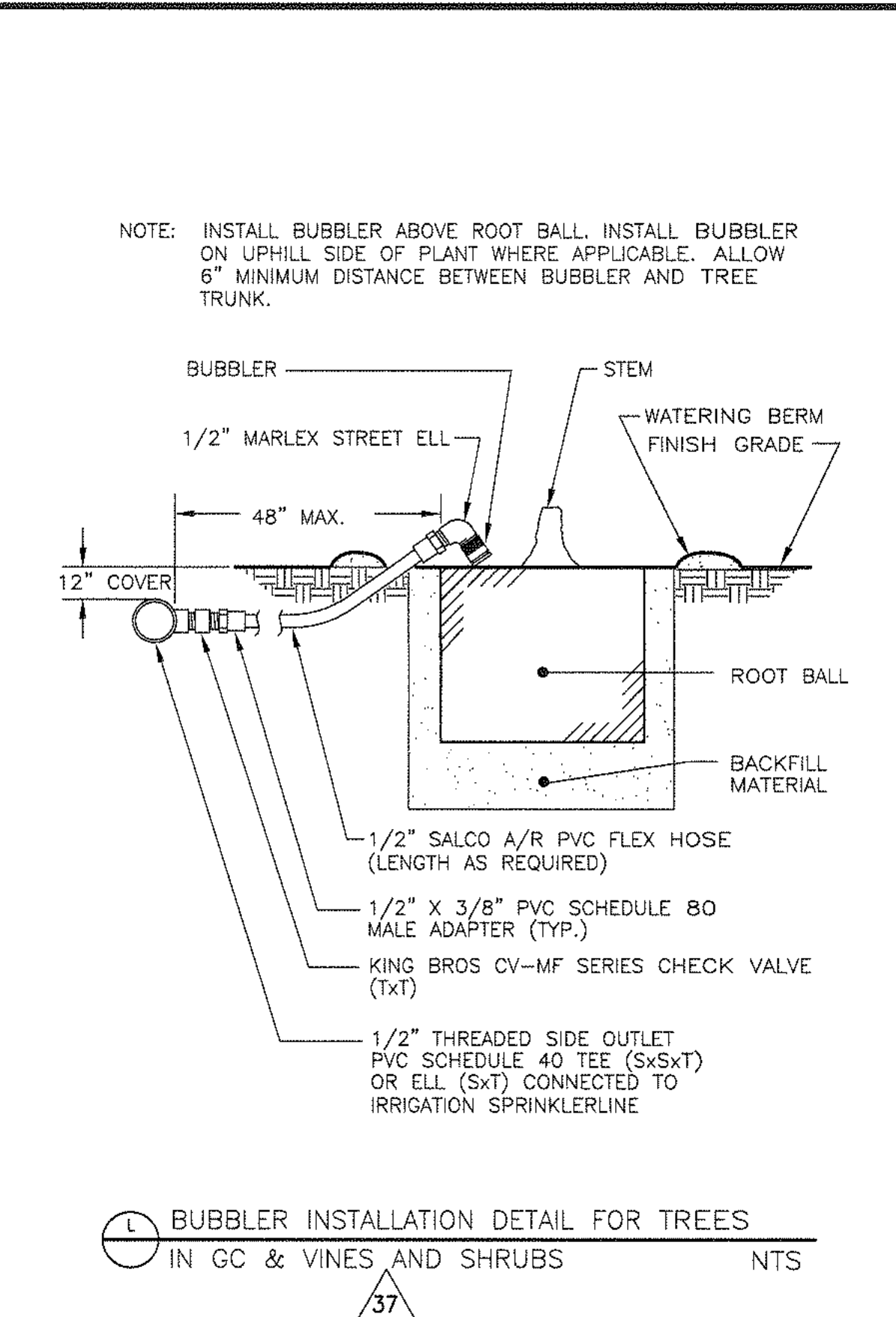
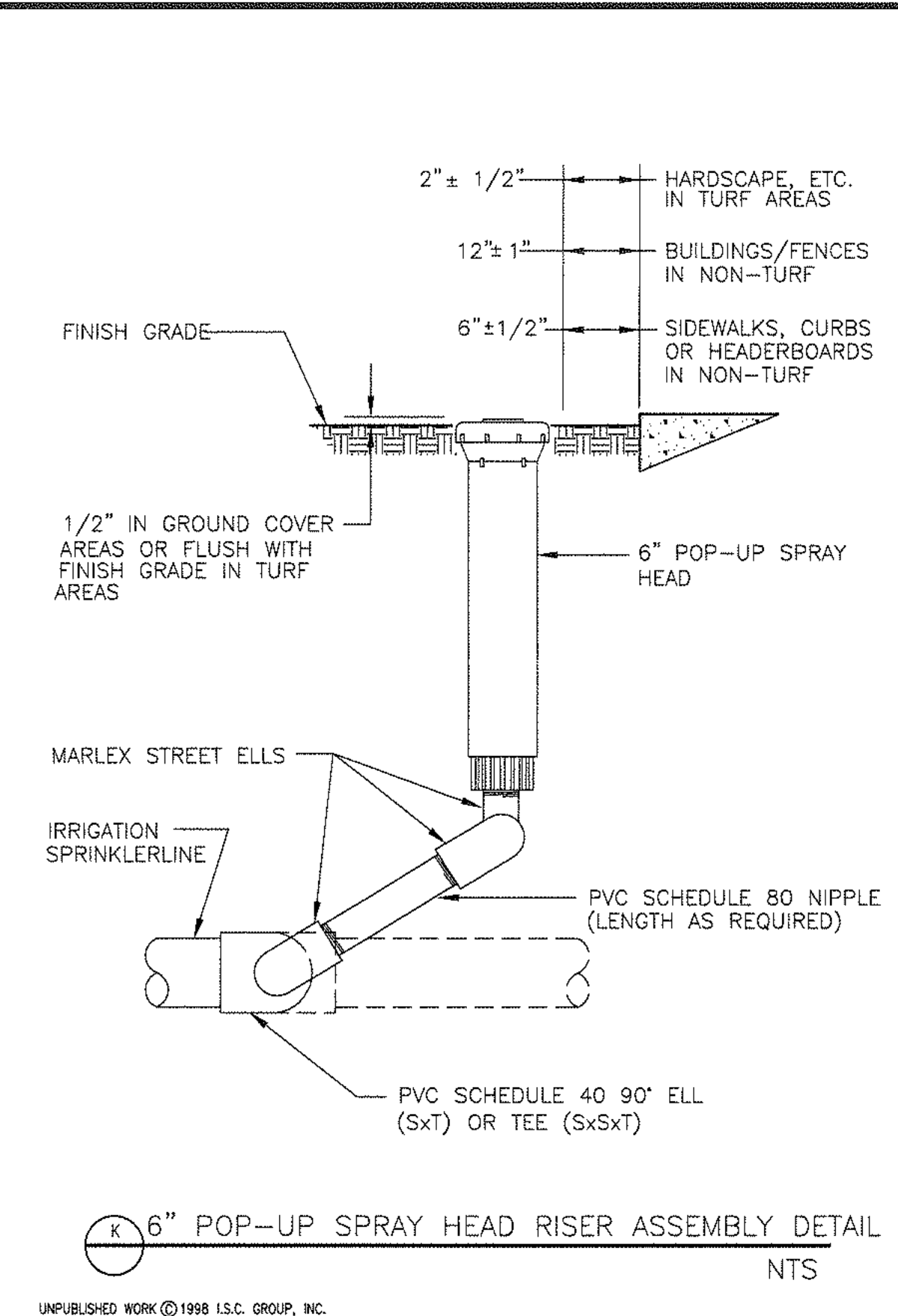
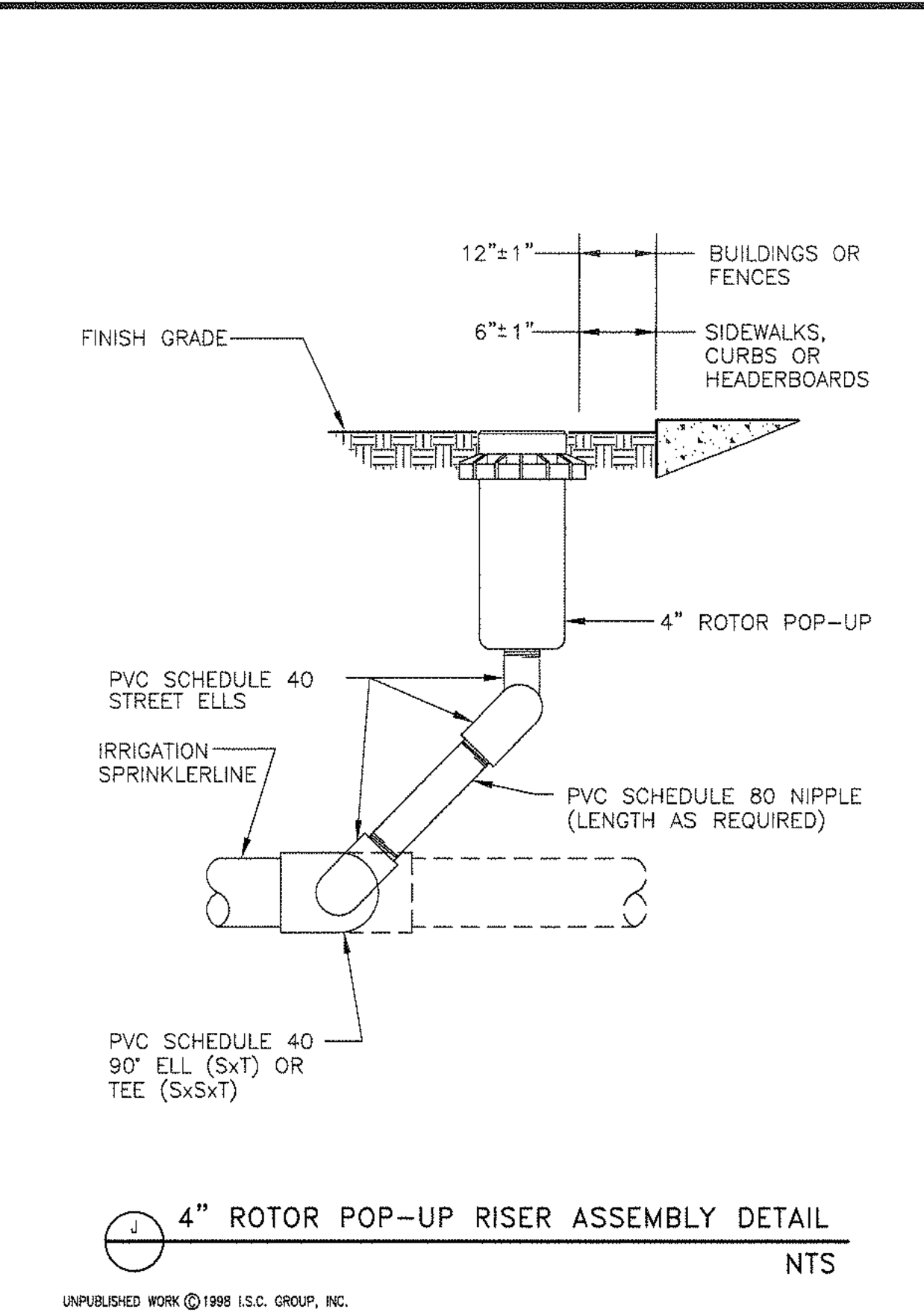
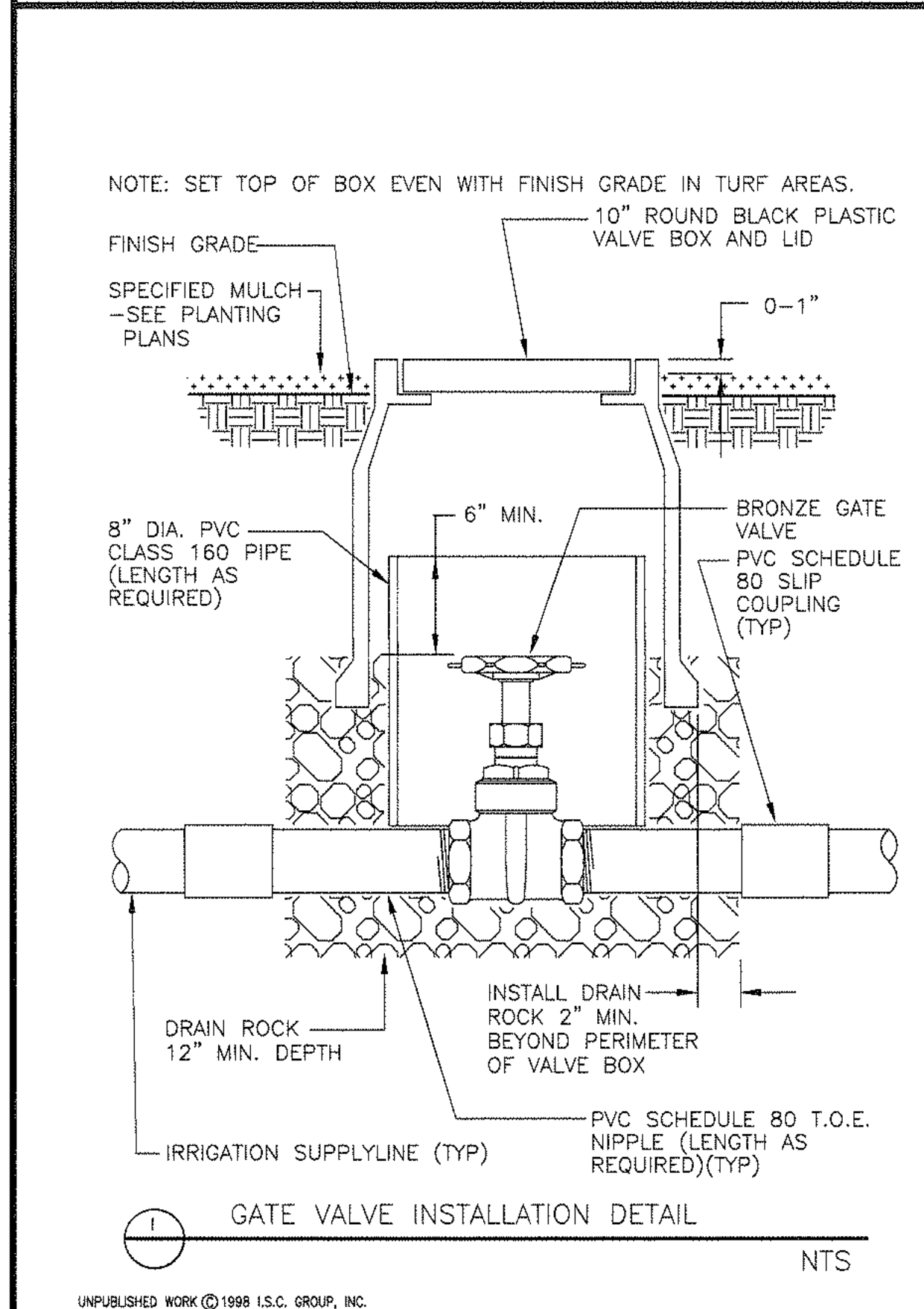
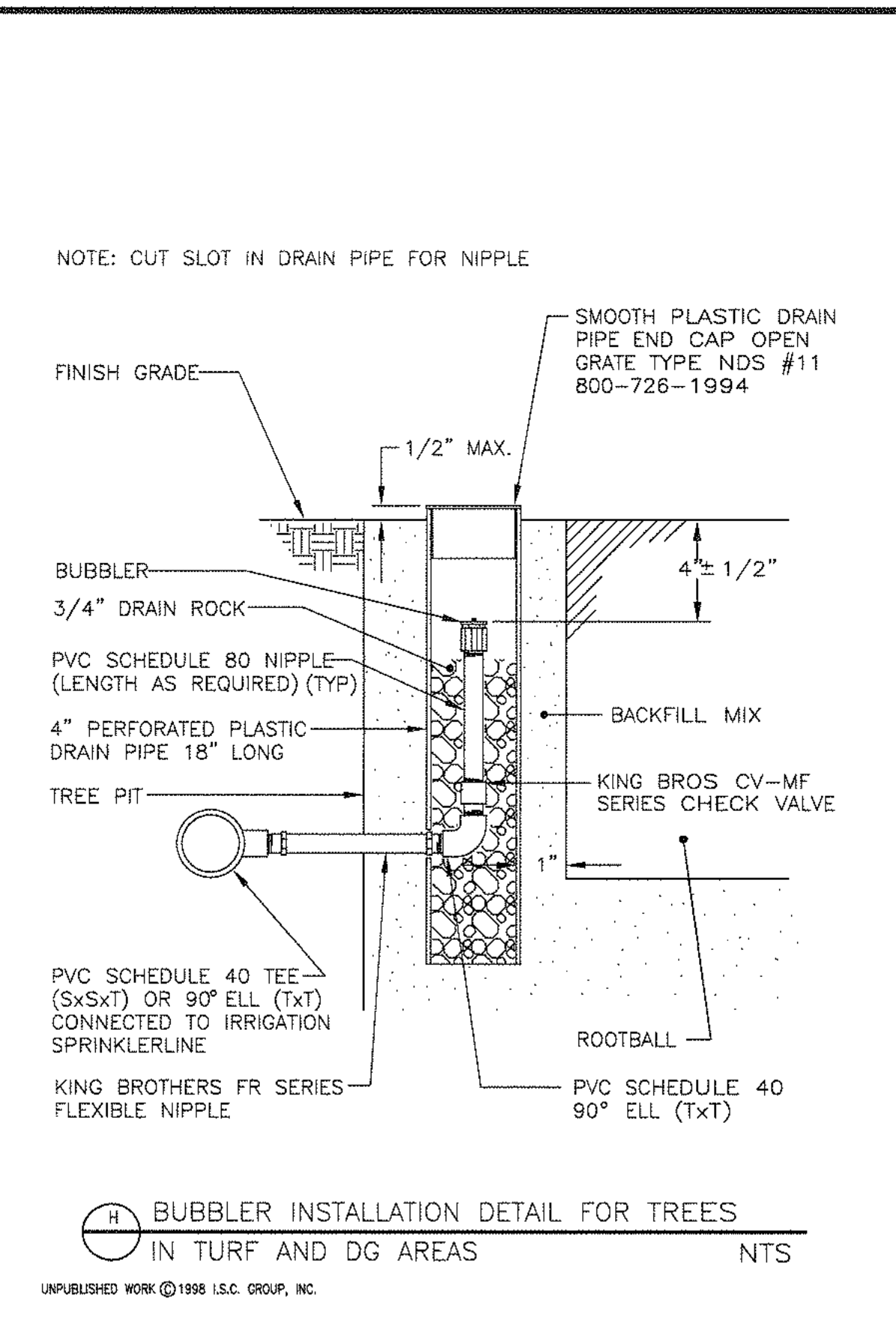
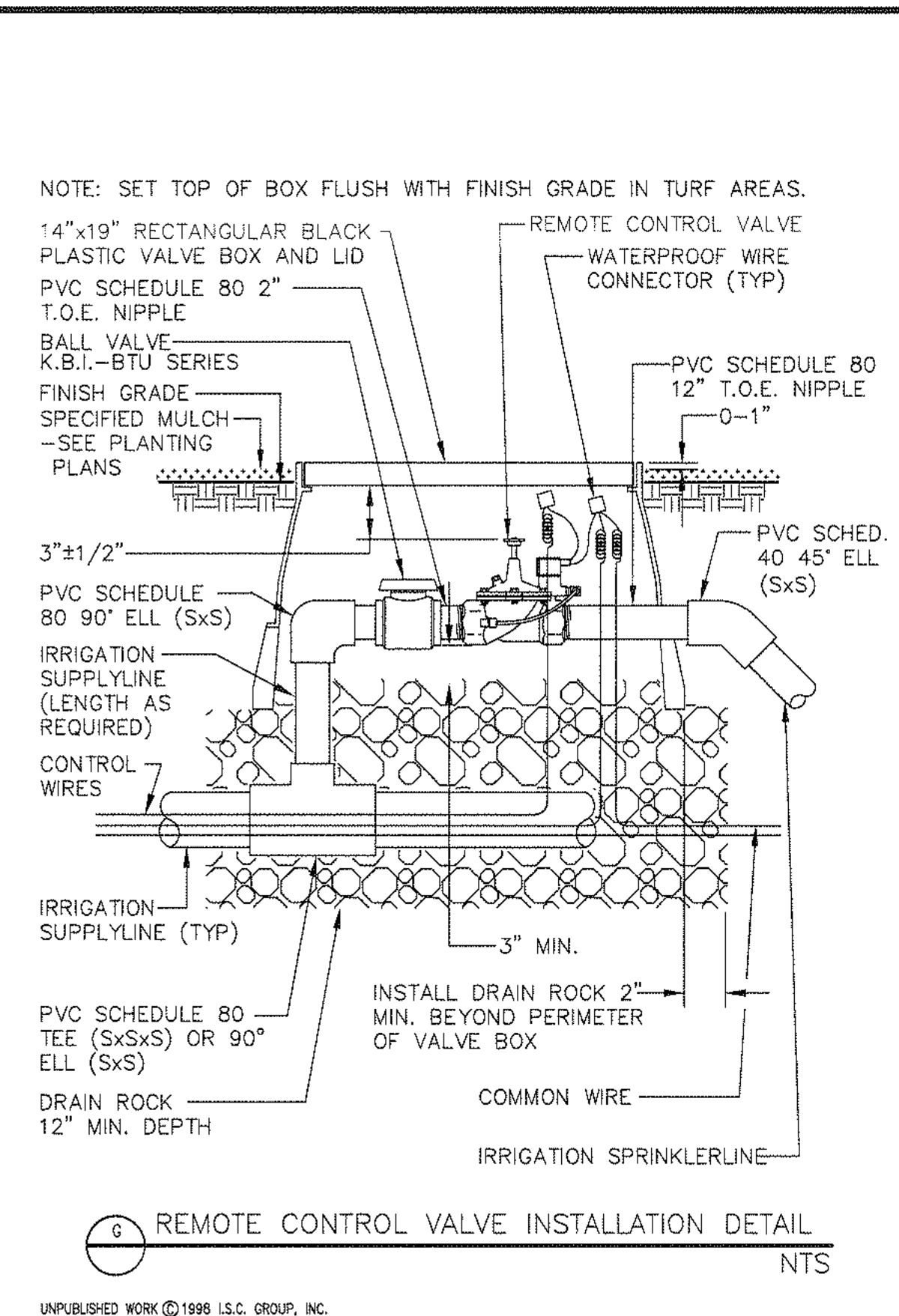
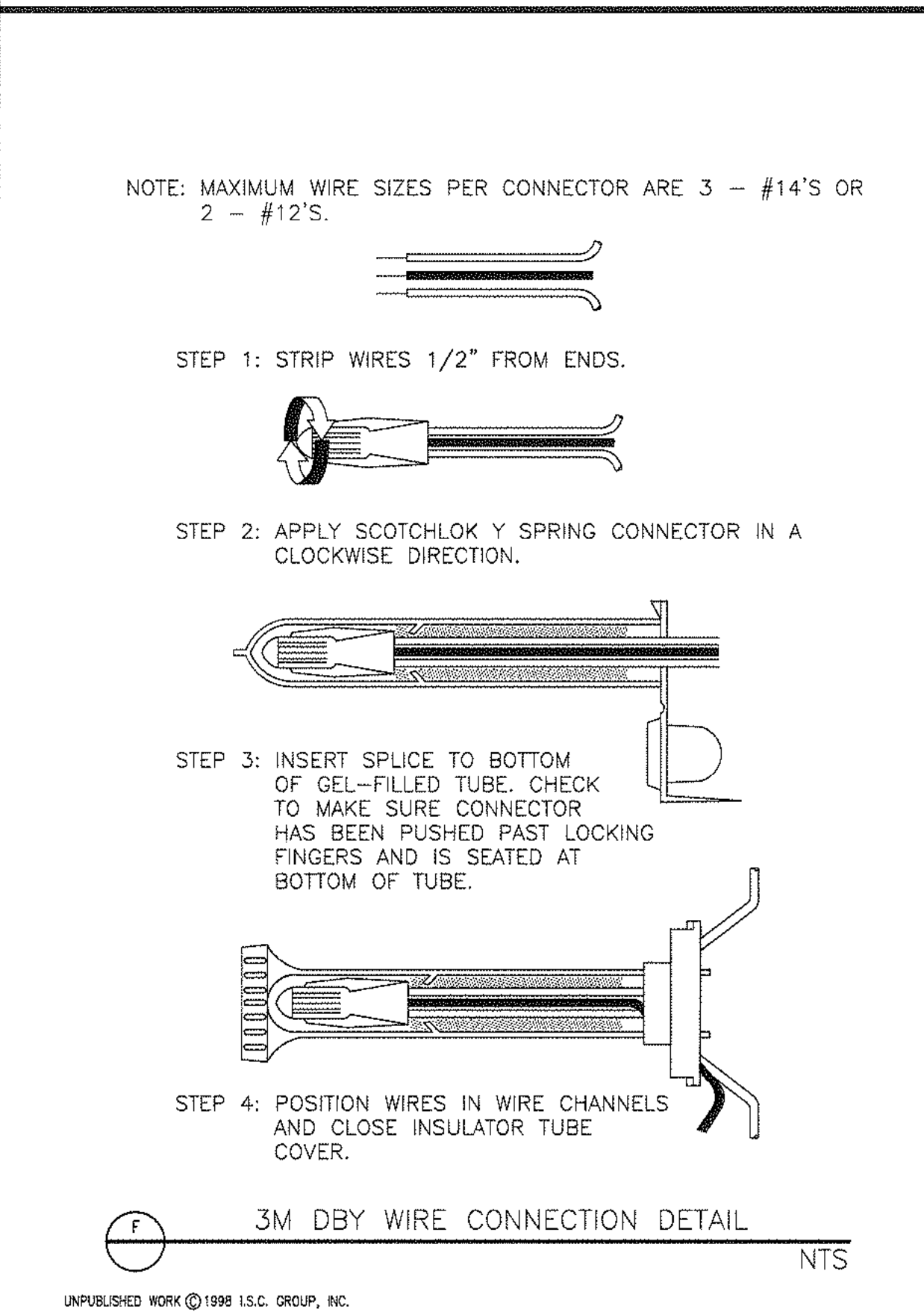
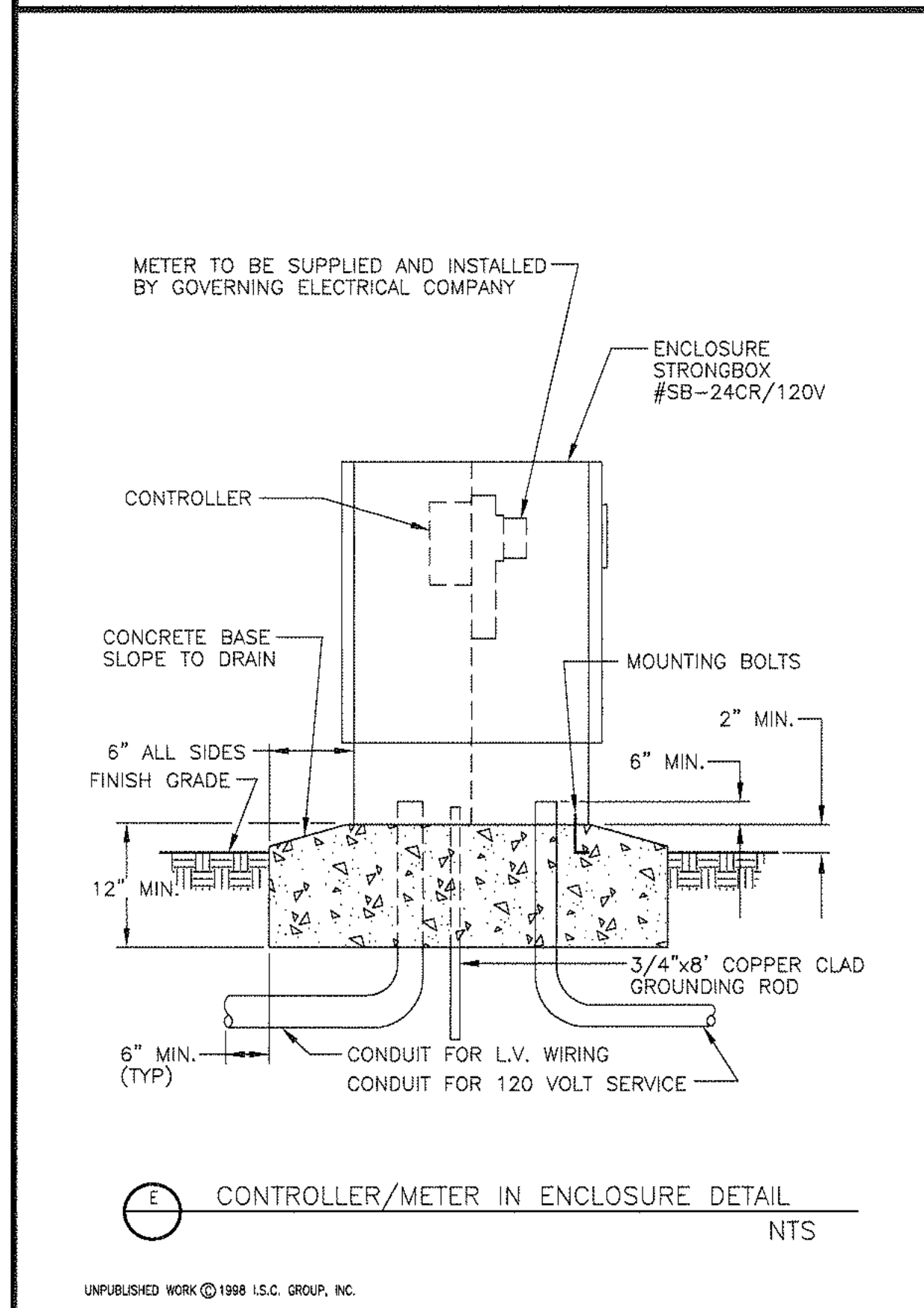
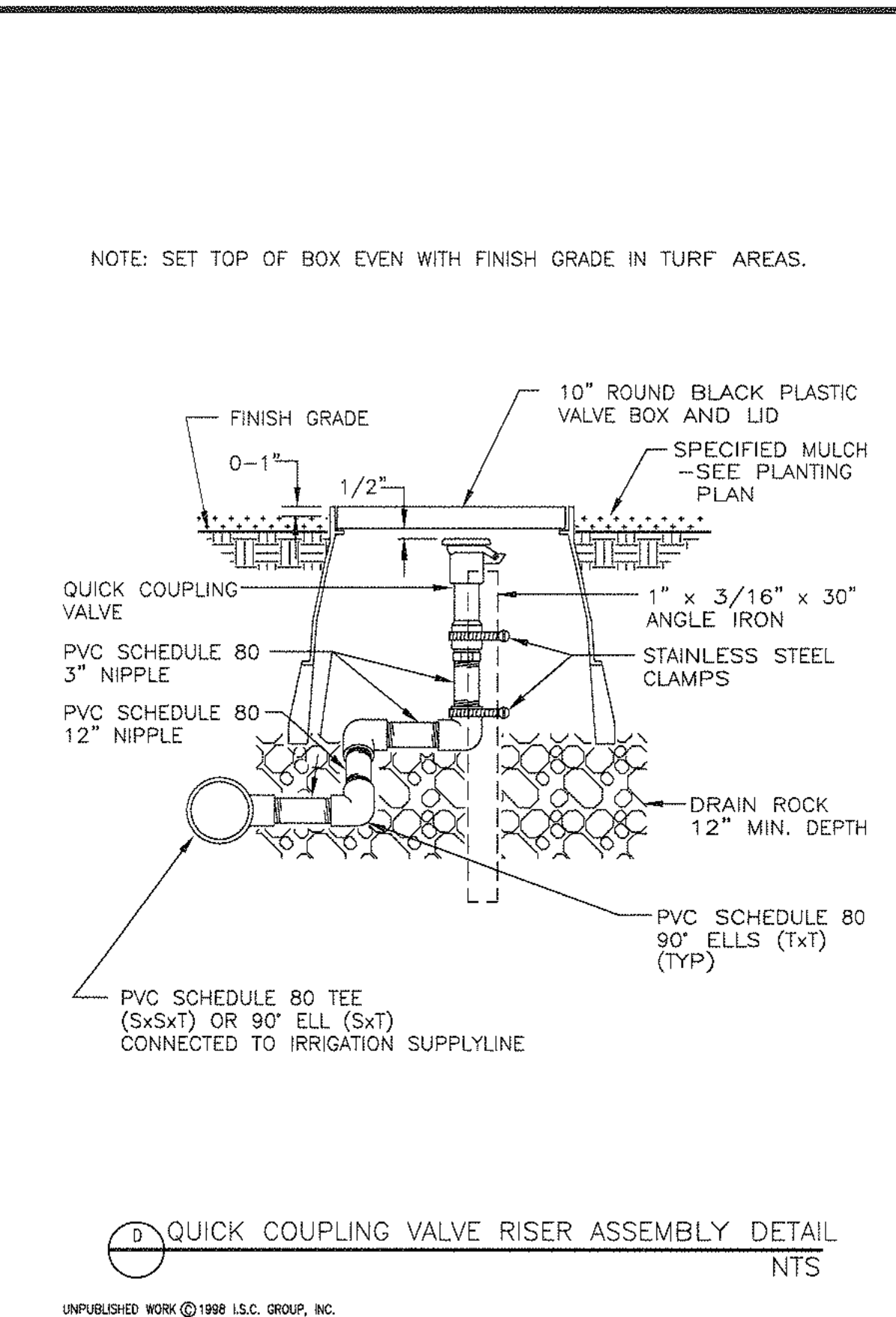
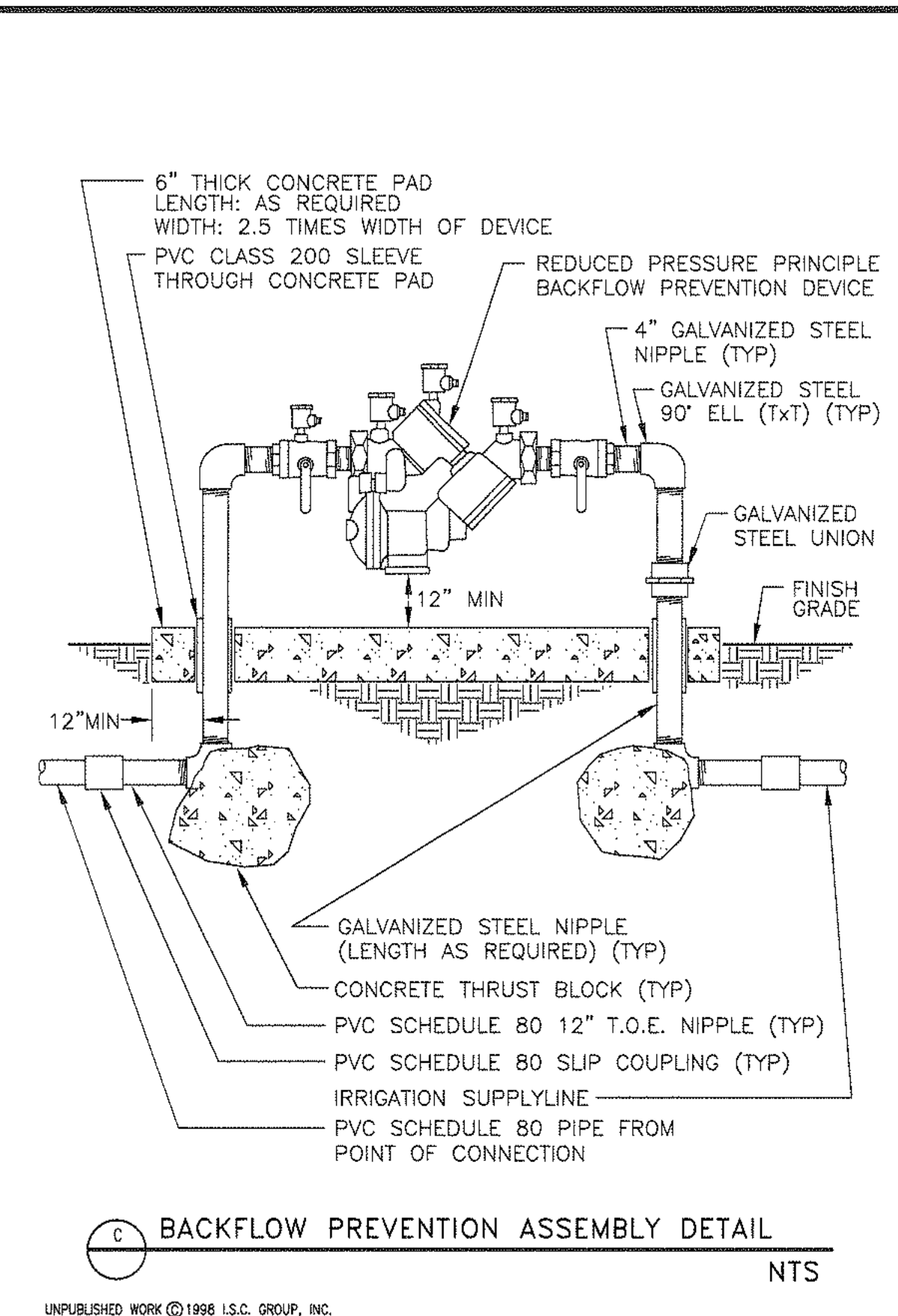
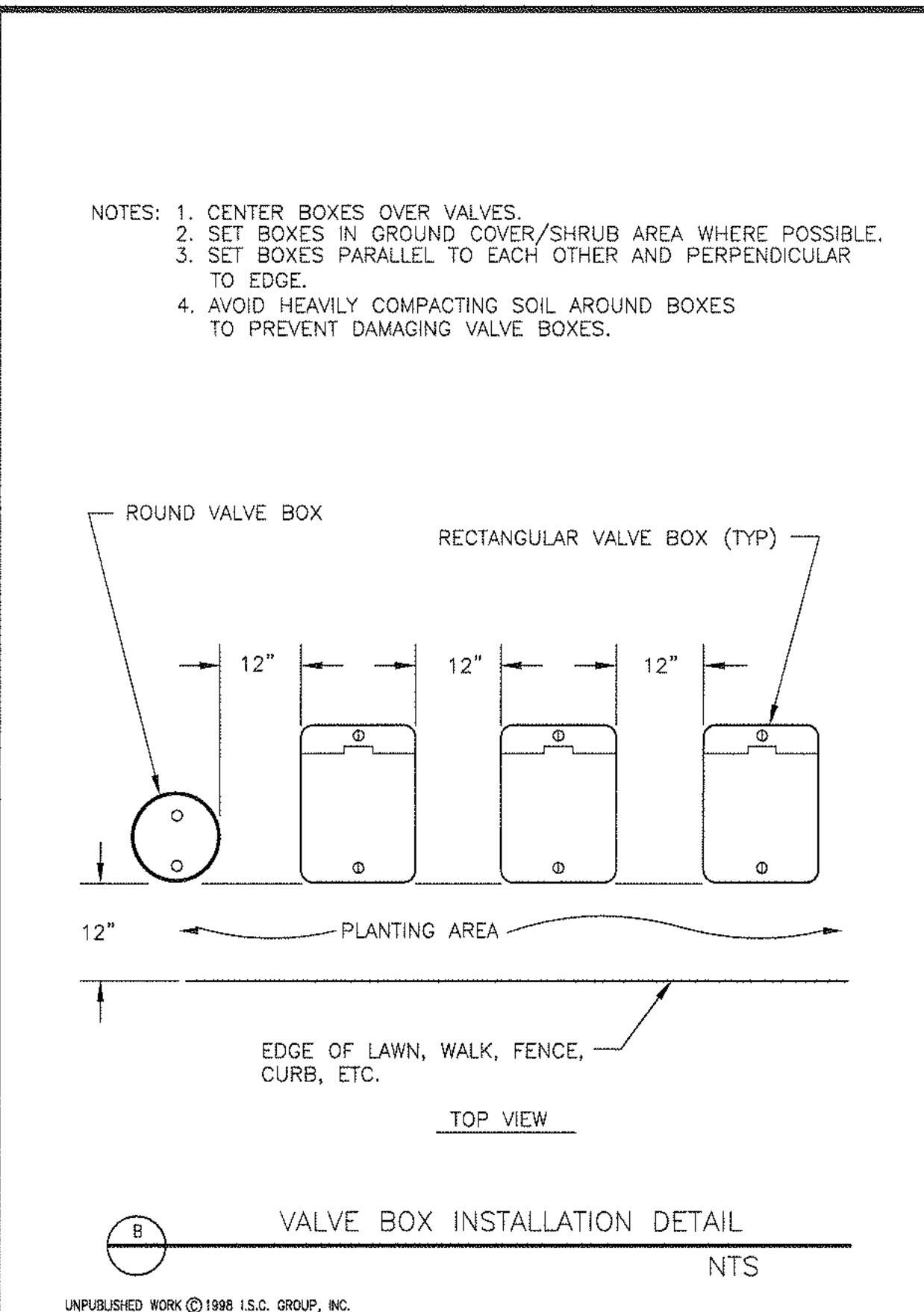
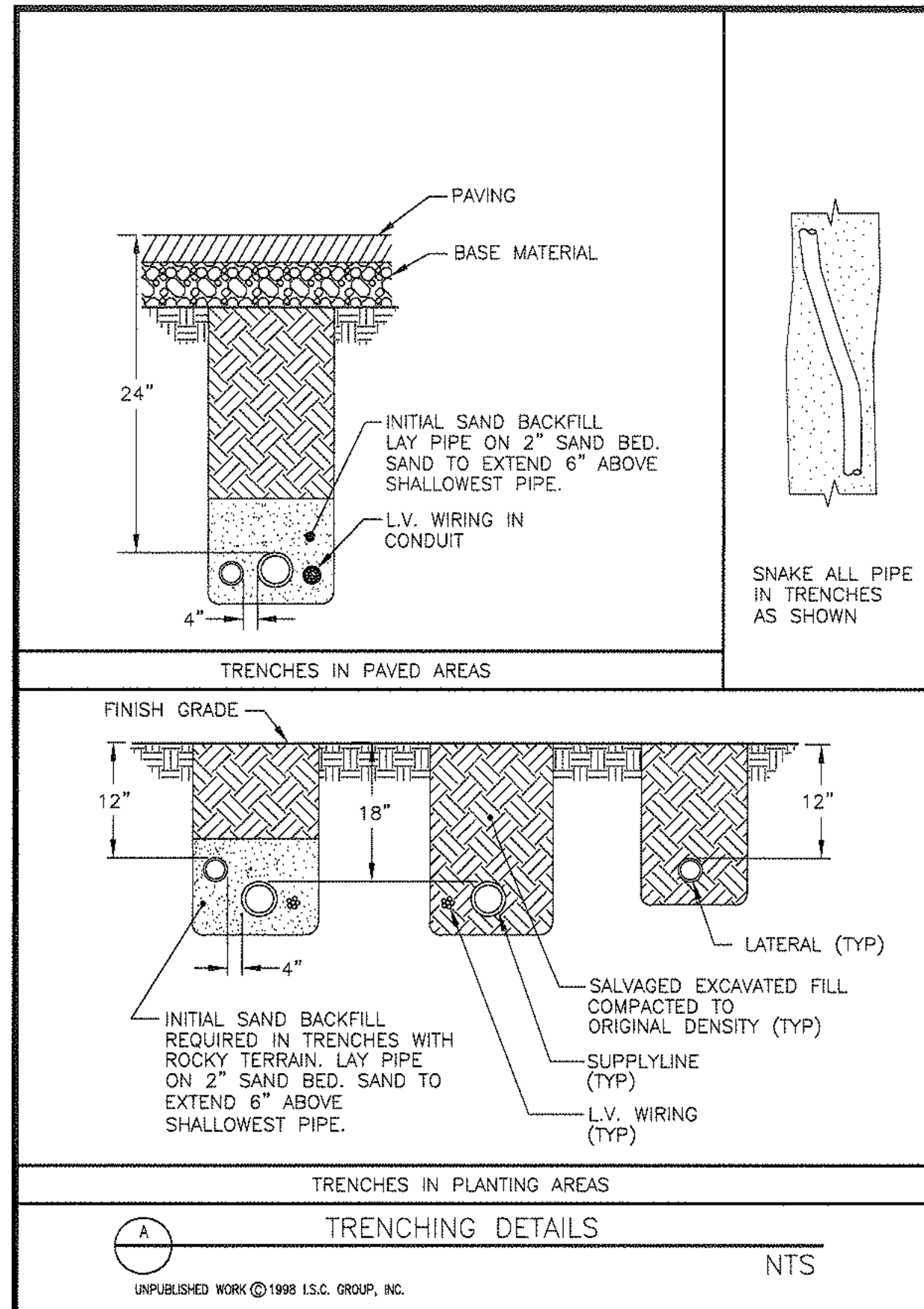
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LANDSCAPE
 IRRIGATION
 NOTES
 AND
 LEGEND

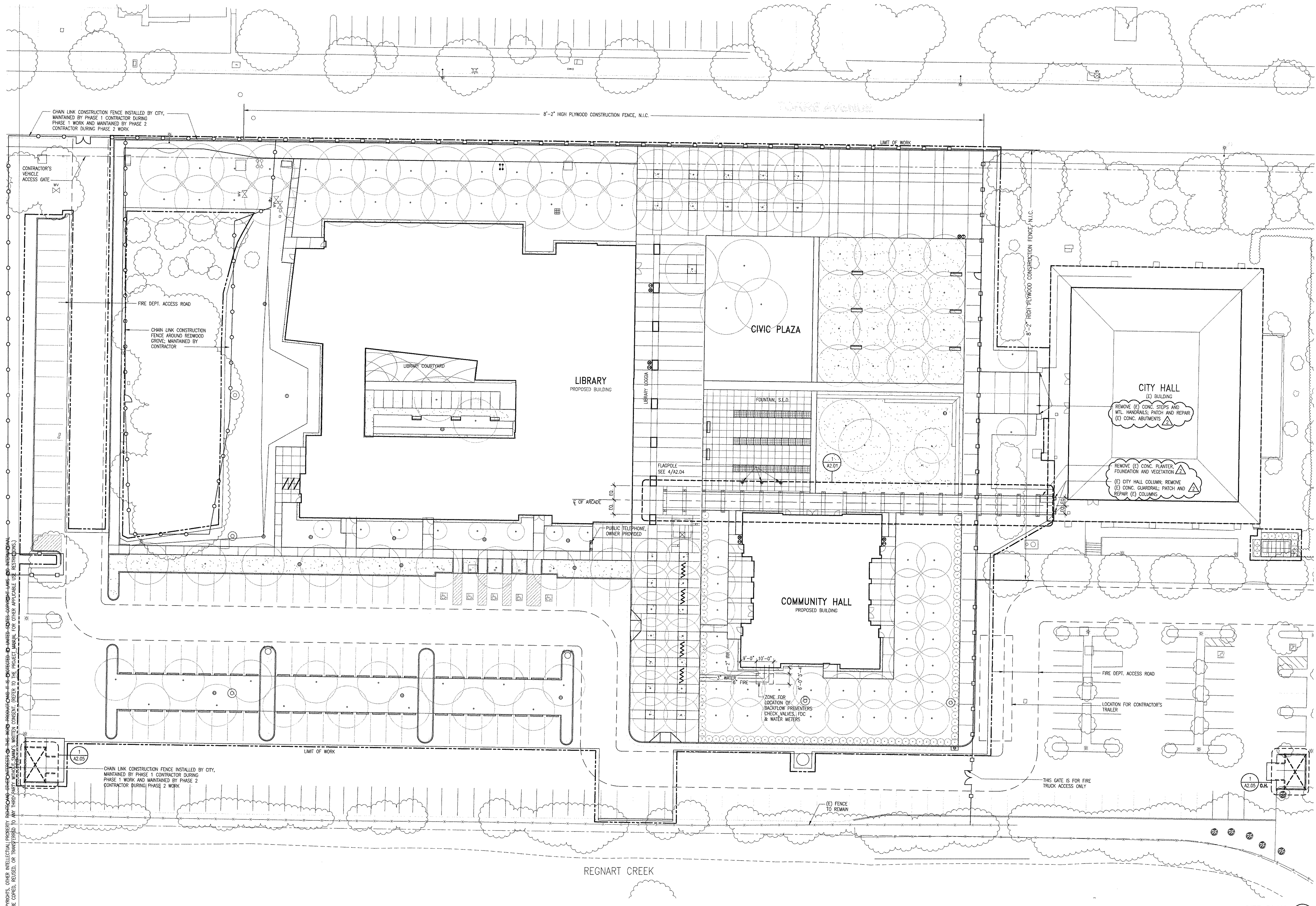
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 planning
 graphic design
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 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3353 F
 Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F
 Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
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 370 Brannan Street
 San Francisco, CA 94107
 415 495 4085 T
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 I.S.C.
 GROUP, INC.
 IRRIGATION
 SYSTEM
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 340 Church Street
 Phone 925/371-8230
 Livermore, CA 94550
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SMVM
 architecture
 interiors
 planning
 graphic design
 989 Market Street, 3rd Floor, San Francisco, CA 94103
 415 546 0400 T
 415 882 7098 F
 www.smvm.com

City of Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3333 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
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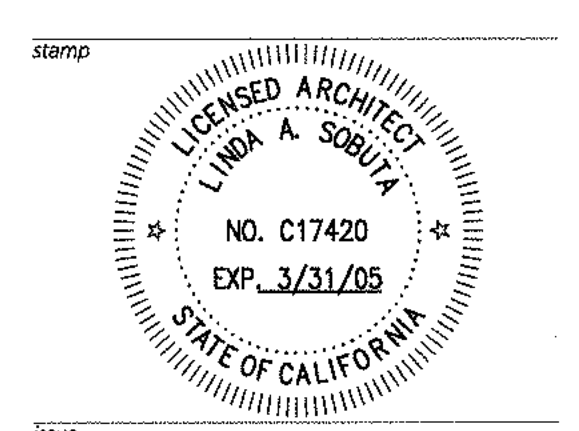
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 415 837 0700 T
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 405 Howard Street
 Suite 500
 San Francisco, CA 94105
 415 398 3833 T
 415 433 5311 F

Architectural Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

revisions
 2003.05.30
 ADDENDUM NO. 2

11-29-04 Updated Contract Documents



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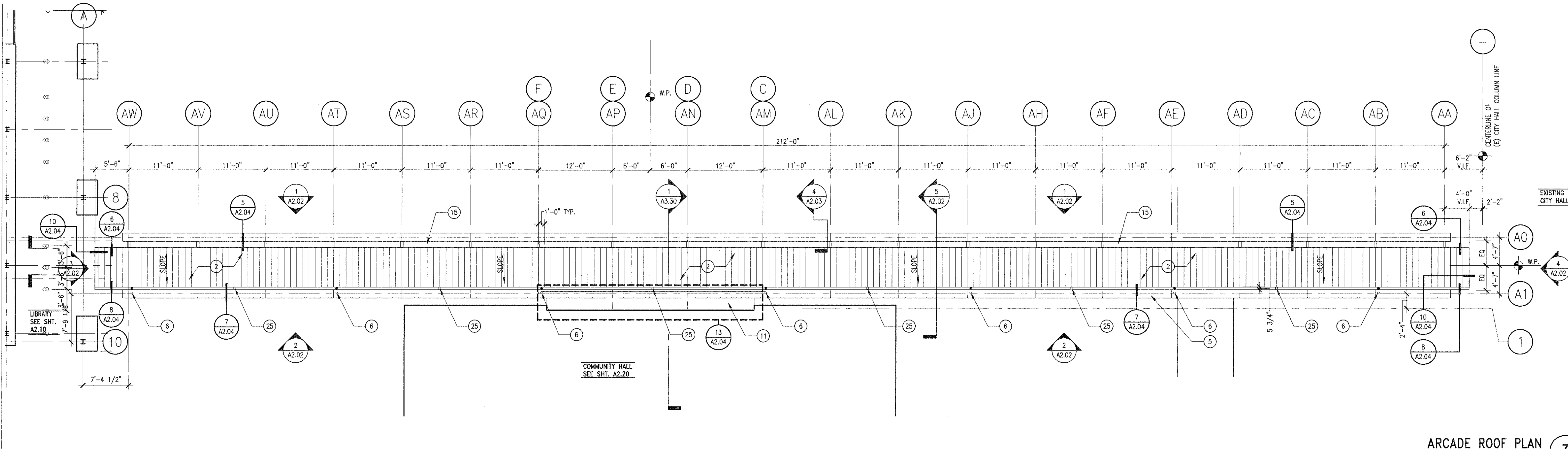
SITE PLAN
 1 : 20

DRAWING LEGEND
 ———— OUTLINE OF CONSTRUCTION FENCE INSTALLED BY CITY, MAINTAINED BY PHASE 1 CONTRACTOR DURING PHASE 1 WORK AND MAINTAINED BY PHASE 2 CONTRACTOR DURING PHASE 2 WORK
 ———— PLYWOOD CONSTRUCTION FENCE, N.I.C.

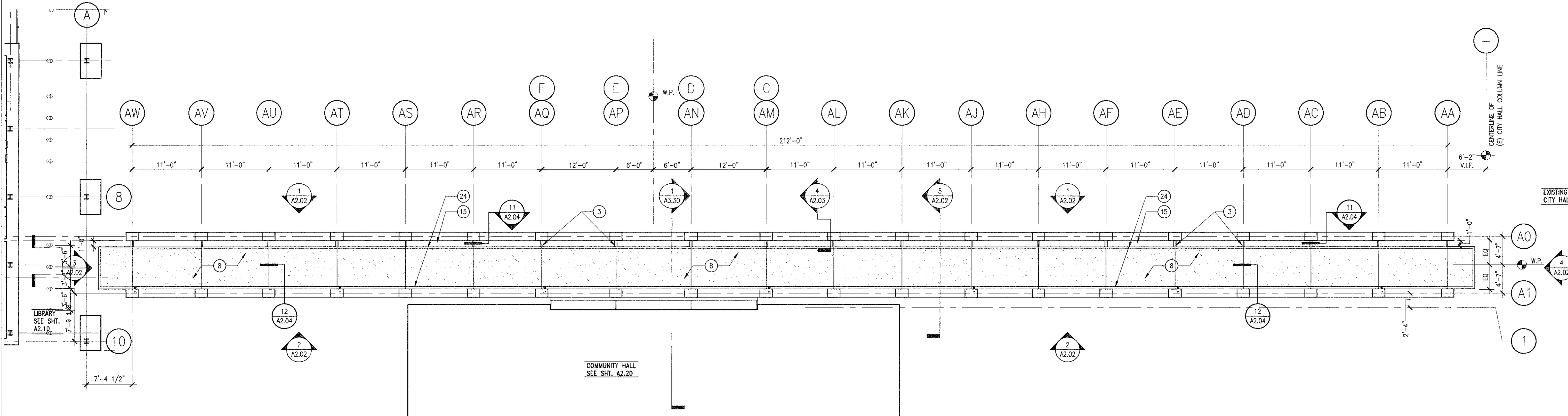
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 date 2003.04.18
 drawn by DDH project number 20114.00
 sheet number 47

A2.00

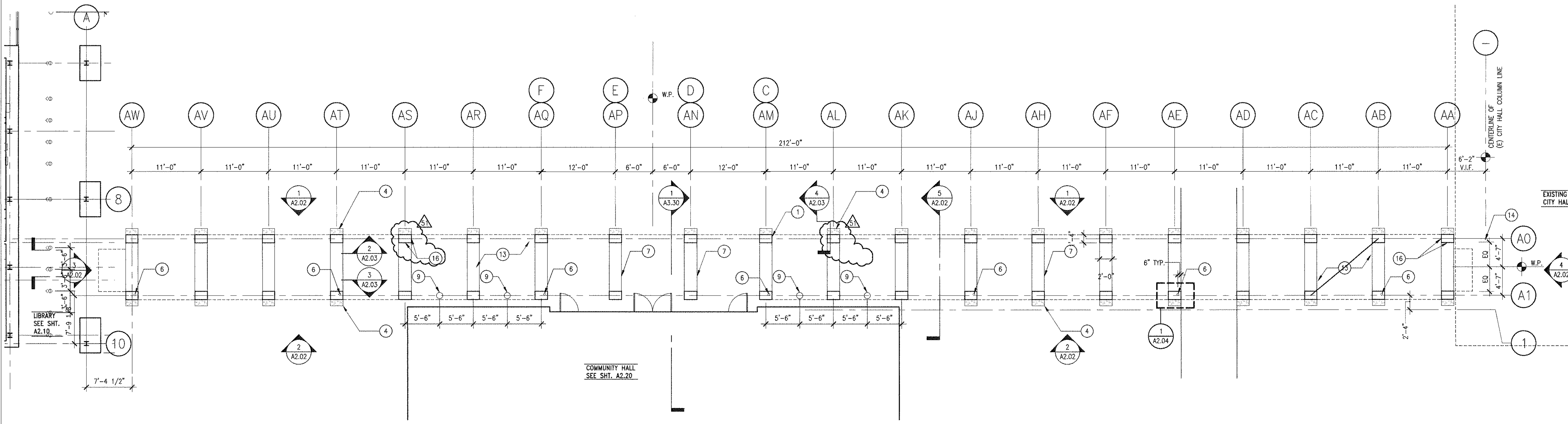
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ARCADE ROOF PLAN 3
1/8" = 1'-0"



ARCADE REFLECTED CEILING PLAN 2
1/8" = 1'-0"



ARCADE FLOOR PLAN 1
1/8" = 1'-0"

- GENERAL NOTES
1. COLORS: SEE GENERAL NOTES, EXTERIOR ELEVATIONS
 2. FOR TYPICAL ROOF DETAILS, SEE AB.13.
 3. FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.
- KEYNOTES
1. PRECAST CONCRETE, SQUARE CORNERS
 2. MANUFACTURED STANDING SEAM ROOF
 3. GALV. STL., PAINTED; COLOR: PC2
 4. WINE POCKET, S.I.D.
 5. INTEGRAL GUTTER
 6. GALV. SHL. METAL CATCH BASIN PAINTED; COLOR: PC2
 7. PAVING JOINT, S.I.D.
 8. EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 9. RECESSED LIGHT, S.E.D.
 10. VERTICAL CABLE WINE SUPPORT SYSTEM; SEE SPECIFICATION SECTION 05500
 11. TRANSLUCENT SKYLIGHT
 12. STAINLESS STL. LETTERS, N.I.C.
 13. CONCRETE PAVING, S.I.D.
 14. EXISTING COLUMN
 15. OPEN
 16. FLUSH MOUNTED RECEPTACLE WITH S.S.T. COVER PLATE, S.E.D.
 17. GALV. 1/8" PERF. STL. SHIT; 1/2" DIAM. HOLES @ 1 1/2" O.C. STAGGERED CENTERS, PAINTED; COLOR: PC2
 18. CHAIN LINK FENCE- PLASTIC COATED W/ WD. SLATS
 19. PAINTED GALV. STL. DECK, S.S.D.; COLOR: PC2
 20. CAST IN PLACE CONDUIT, S.E.D.
 21. CONCRETE FOOTING, S.S.D.
 22. GALV. STL. GATE WITH H.V.Y. GAGE CONTINUOUS STL. HINGE, CANE BOLT AND HASP, PAINTED; COLOR: PC2
 23. 1/2" GALV. STL. ROD DIAGONAL BRACING, PAINTED; COLOR: PC2
 24. PREFINISHED INTEGRAL SHIT. WTL FASCIA / PANEL; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 25. EXPANSION JOINT; SEE 17/AB.14
 26. CEM. PLASTER OVER 2 LAYERS BLDG. PAPER OVER GYP. SHEATHING OVER SUSPENDED 5 3/8" C.F. WTL. FRAMING

GENERAL NOTES

1. COLORS: SEE GENERAL NOTES, EXTERIOR ELEVATIONS
2. FOR TYPICAL ROOF DETAILS, SEE AB.13.
3. FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.

KEYNOTES

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11. TRANSLUCENT SKYLIGHT
12. STAINLESS STL. LETTERS, N.I.C.
13. CONCRETE PAVING, S.I.D.
14. EXISTING COLUMN
15. OPEN
16. FLUSH MOUNTED RECEPTACLE WITH S.S.T. COVER PLATE, S.E.D.
17. GALV. 1/8" PERF. STL. SHIT; 1/2" DIAM. HOLES @ 1 1/2" O.C. STAGGERED CENTERS, PAINTED; COLOR: PC2
18. CHAIN LINK FENCE- PLASTIC COATED W/ WD. SLATS
19. PAINTED GALV. STL. DECK, S.S.D.; COLOR: PC2
20. CAST IN PLACE CONDUIT, S.E.D.
21. CONCRETE FOOTING, S.S.D.
22. GALV. STL. GATE WITH H.V.Y. GAGE CONTINUOUS STL. HINGE, CANE BOLT AND HASP, PAINTED; COLOR: PC2
23. 1/2" GALV. STL. ROD DIAGONAL BRACING, PAINTED; COLOR: PC2
24. PREFINISHED INTEGRAL SHIT. WTL FASCIA / PANEL; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
25. EXPANSION JOINT; SEE 17/AB.14
26. CEM. PLASTER OVER 2 LAYERS BLDG. PAPER OVER GYP. SHEATHING OVER SUSPENDED 5 3/8" C.F. WTL. FRAMING

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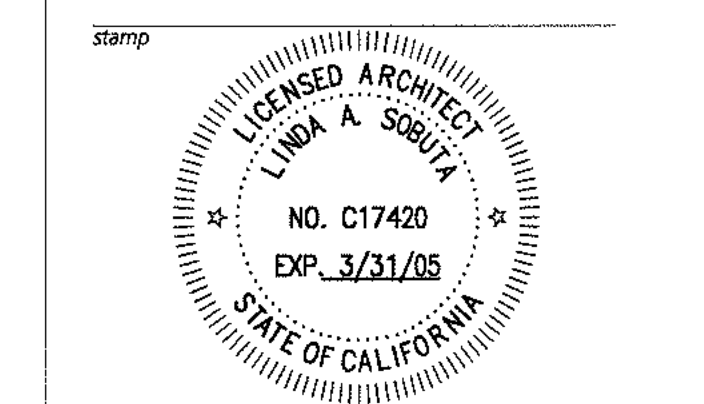
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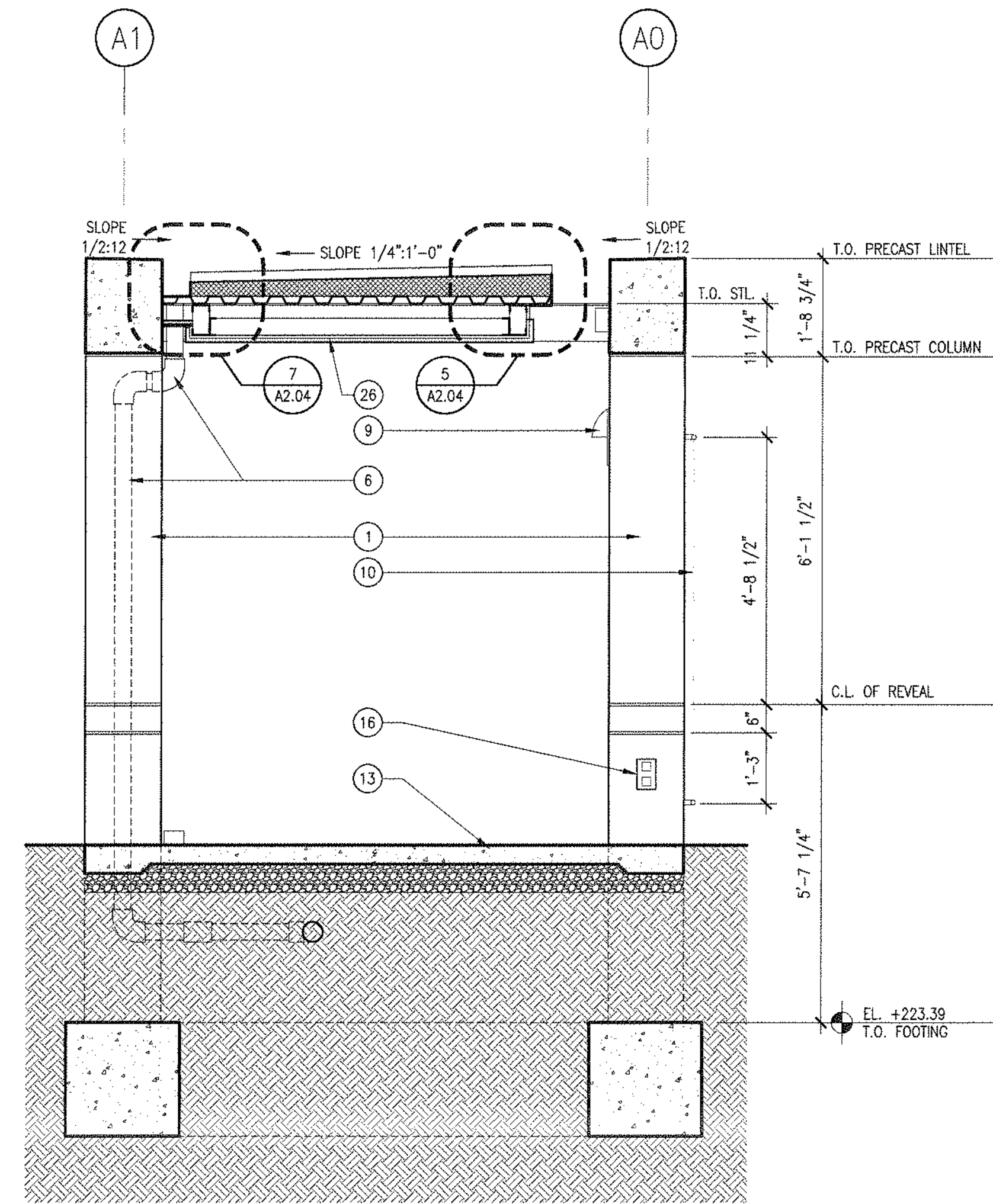
ARCADE PLAN

Scale: 1/8" = 1'-0"
Date: 2003.04.18
Drawn by: GN
Project number: 20114.00
Sheet number:

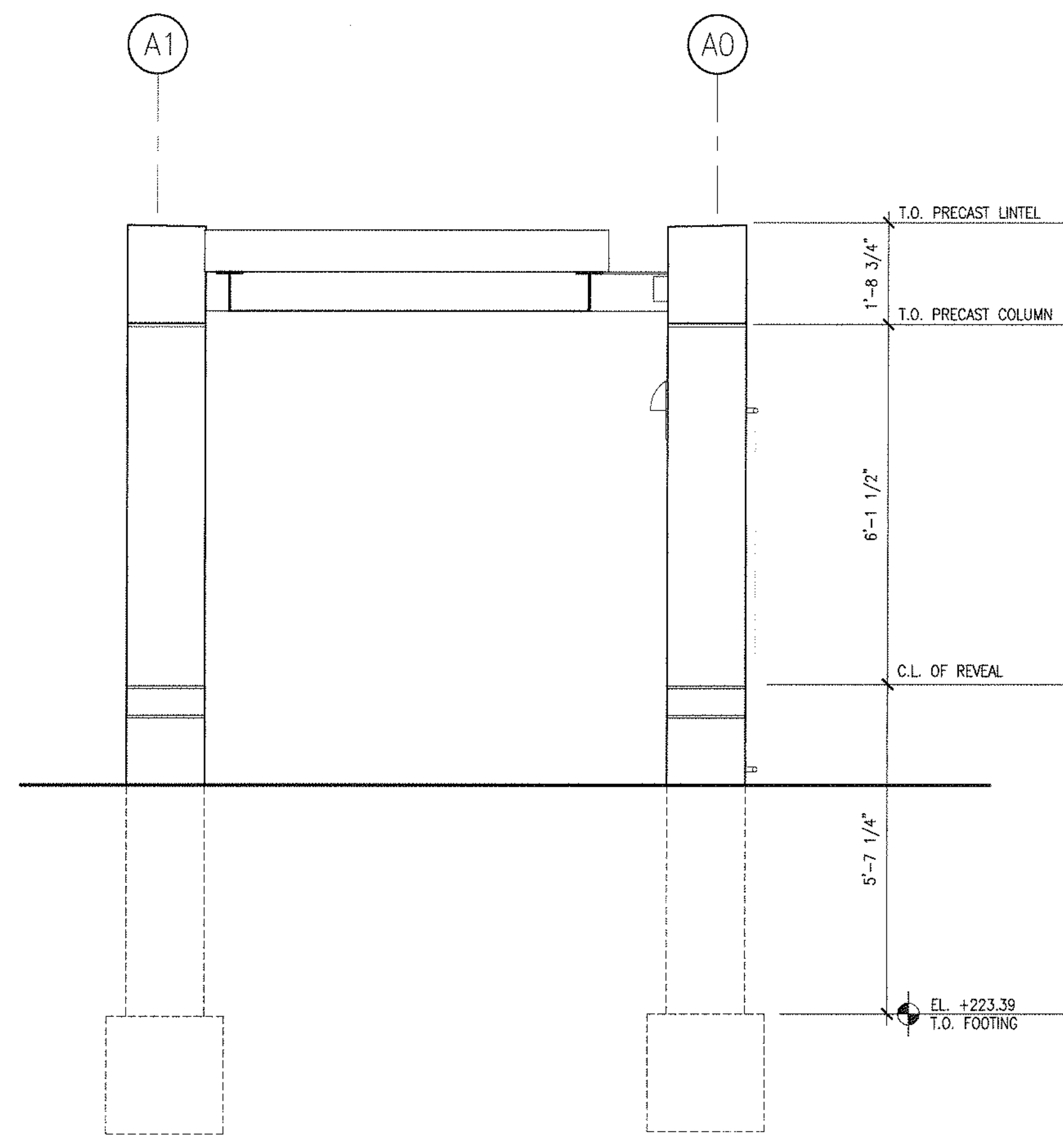
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GENERAL NOTES
 1. COLORS: SEE GENERAL NOTES, EXTERIOR ELEVATIONS
 2. FOR TYPICAL ROOF DETAILS, SEE A8.13.
 3. FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/A8.14.

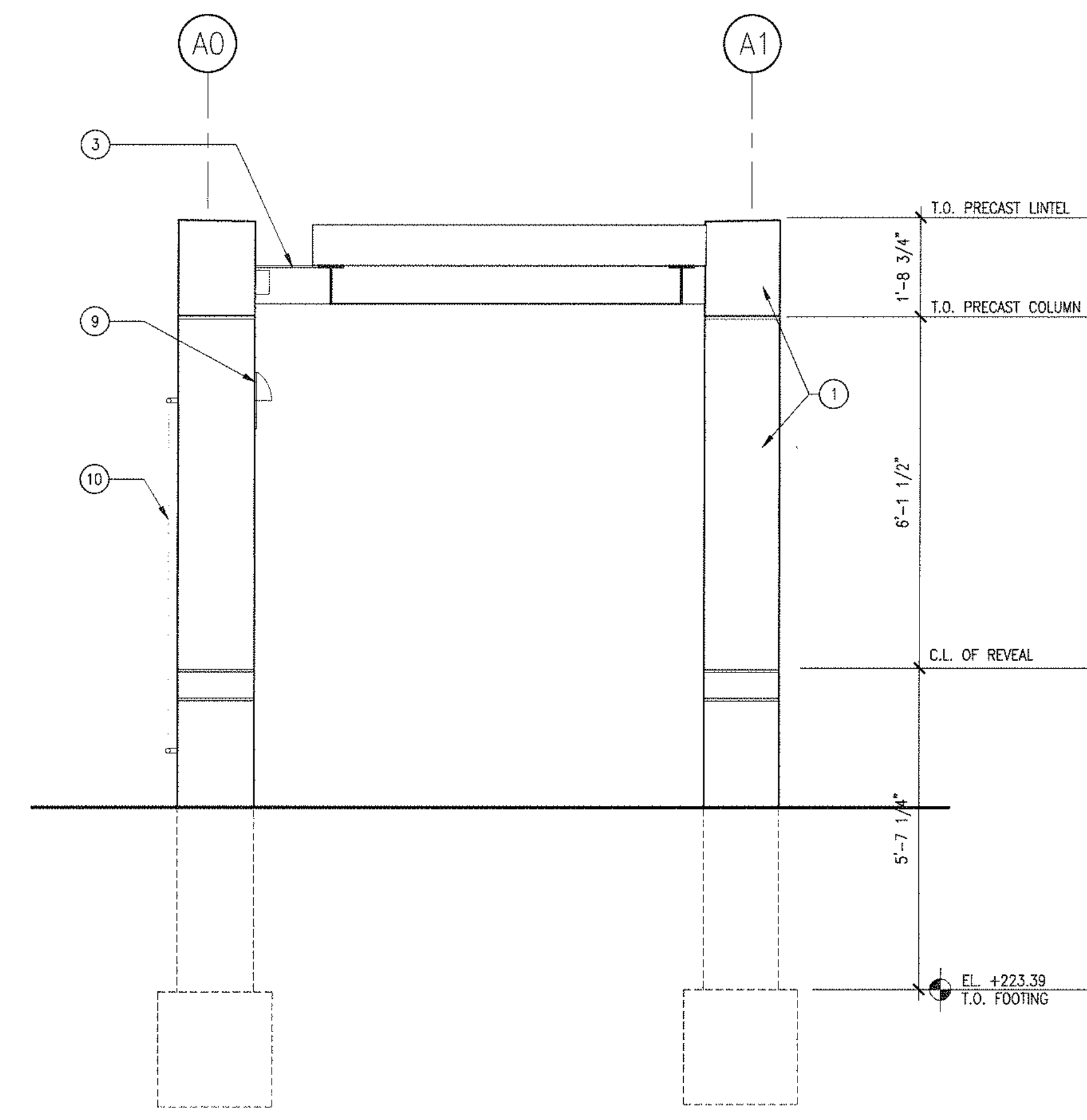
- KEYNOTES
- 1 PRECAST CONCRETE, SQUARE CORNERS
 - 2 MANUFACTURED STANDING SEAM ROOF
 - 3 GALV. STL., PAINTED; COLOR: PC2
 - 4 VINE POCKET, S.L.D.
 - 5 INTEGRAL GUTTER
 - 6 GALV. SHT. METAL CATCH BASIN PAINTED; COLOR: PC2
 - 7 PAVING JOINT, S.L.D.
 - 8 EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 - 9 RECESSED LIGHT, S.E.D.
 - 10 VERTICAL CABLE VINE SUPPORT SYSTEM; SEE SPECIFICATION SECTION 05500
 - 11 TRANSLUCENT SKYLIGHT
 - 12 STAINLESS STL. LETTERS, N.I.C.
 - 13 CONCRETE PAVING, S.L.D.
 - 14 EXISTING COLUMN
 - 15 OPEN
 - 16 FLUSH MOUNTED RECEPTACLE WITH S.S.T. COVER PLATE, S.E.D.
 - 17 GALV. 1/8" PERF. STL. SHT.; 1/2" DIA. HOLES @ 1 1/2" O.C. STAGGERED CENTERS, PAINTED; COLOR: PC2
 - 18 CHAIN LINK FENCE- PLASTIC COATED W/ WD. SLATS
 - 19 PAINTED GALV. STL. DECK, S.S.D.; COLOR: PC2
 - 20 CAST IN PLACE CONDUIT, S.E.D.
 - 21 CONCRETE FOOTING, S.S.D.
 - 22 GALV. STL. GATE WITH HYV. GAGE CONTINUOUS STL. HINGE, CANE BOLT AND HASP, PAINTED; COLOR: PC2
 - 23 1/2 GALV. STL. ROD DIAGONAL BRACING, PAINTED; COLOR: PC2
 - 24 PREFINISHED INTEGRAL SHT. MTL. FASCIA / PANEL; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - 25 EXPANSION JOINT; SEE 17/A8.14
 - 26 CEM. PLASTER OVER 2 LAYERS BLDG. PAPER OVER GYP. SHEATHING OVER SUSPENDED 3 5/8" C.F. MTL. FRAMING



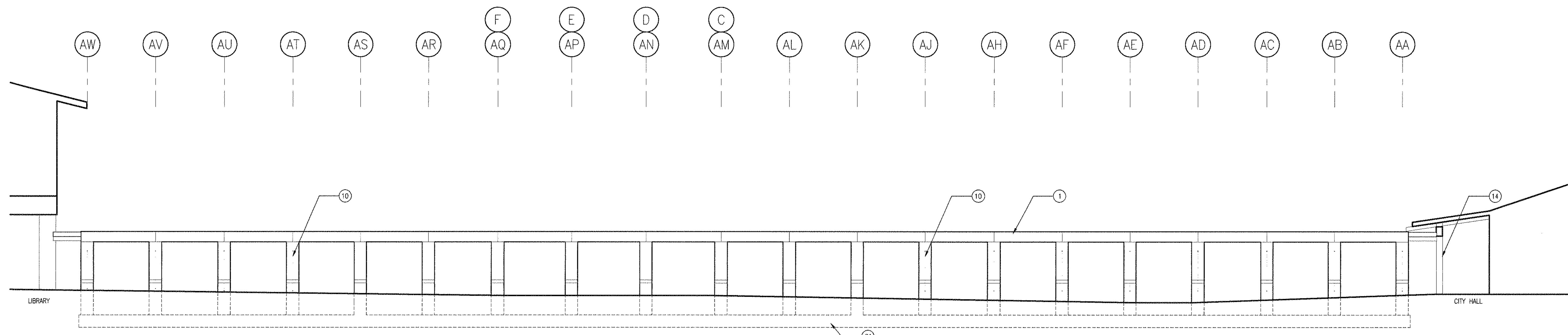
ARCADE SECTION 5
 1/2" = 1' - 0"



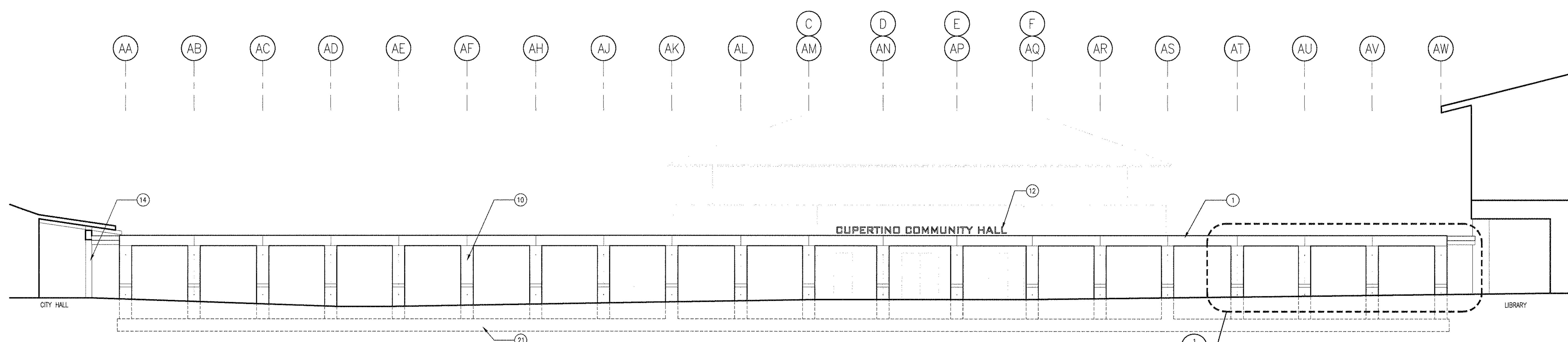
NORTH ELEVATION 4
 1/2" = 1' - 0"



SOUTH ELEVATION 3
 1/2" = 1' - 0"



EAST ELEVATION 2
 1/8" = 1' - 0"



WEST ELEVATION 1
 1/8" = 1' - 0"

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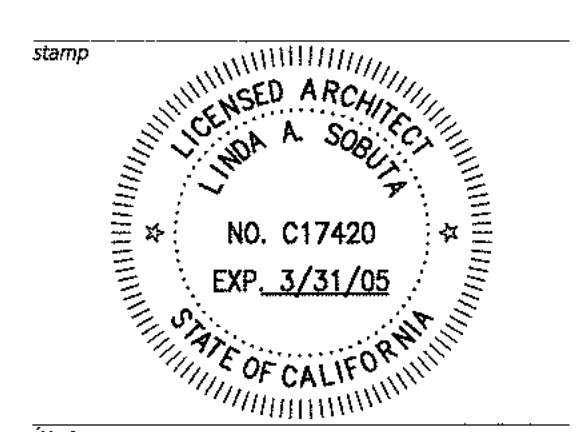
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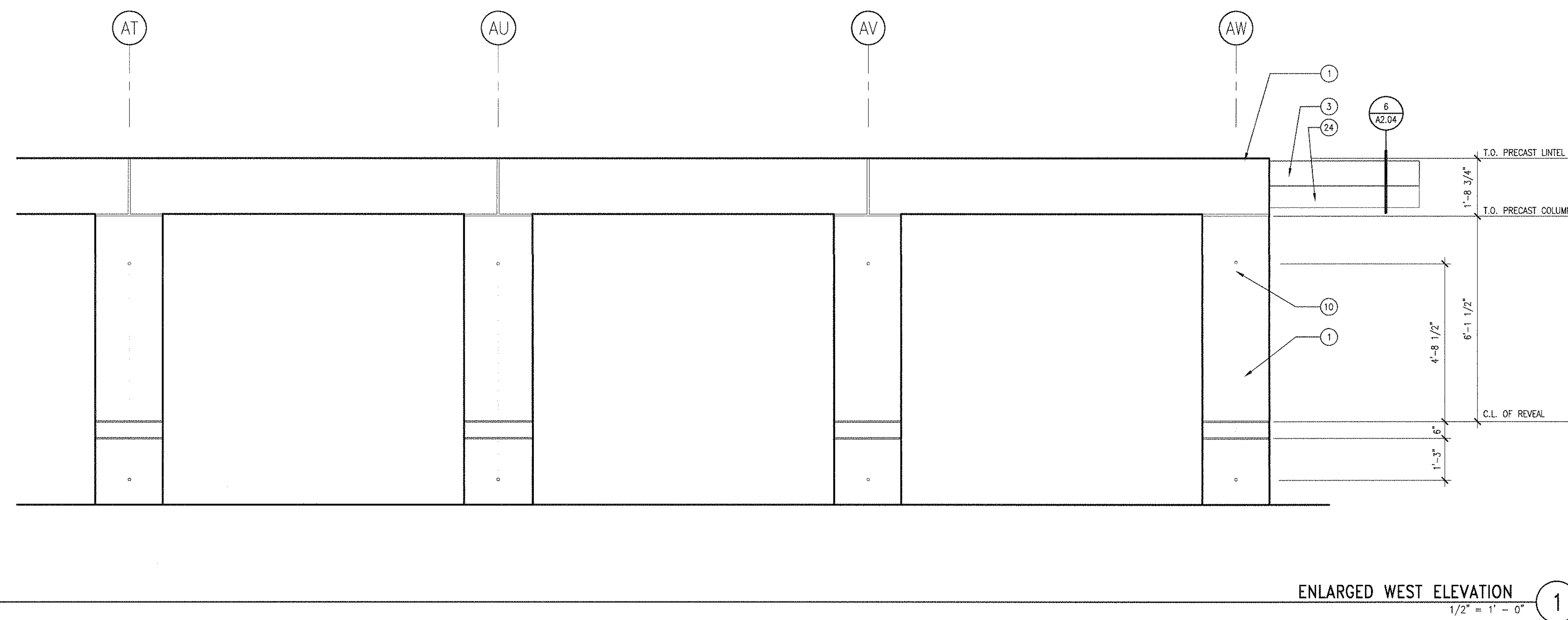
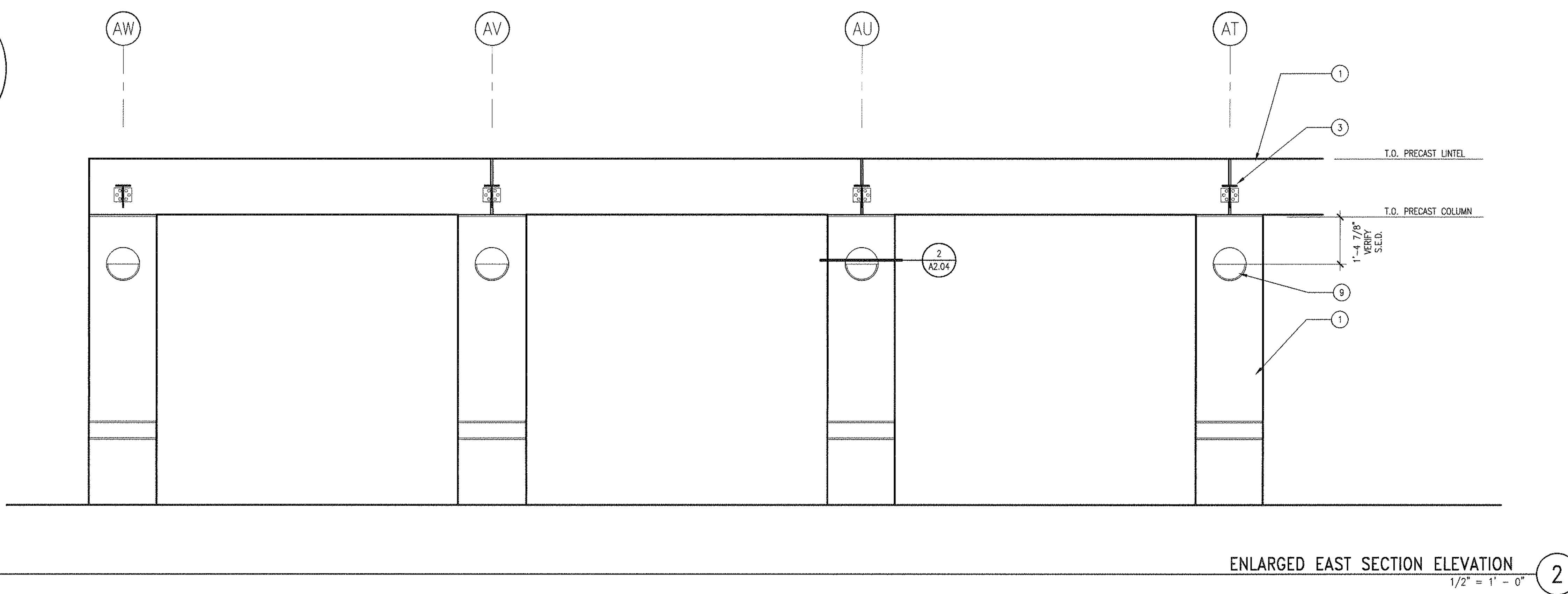
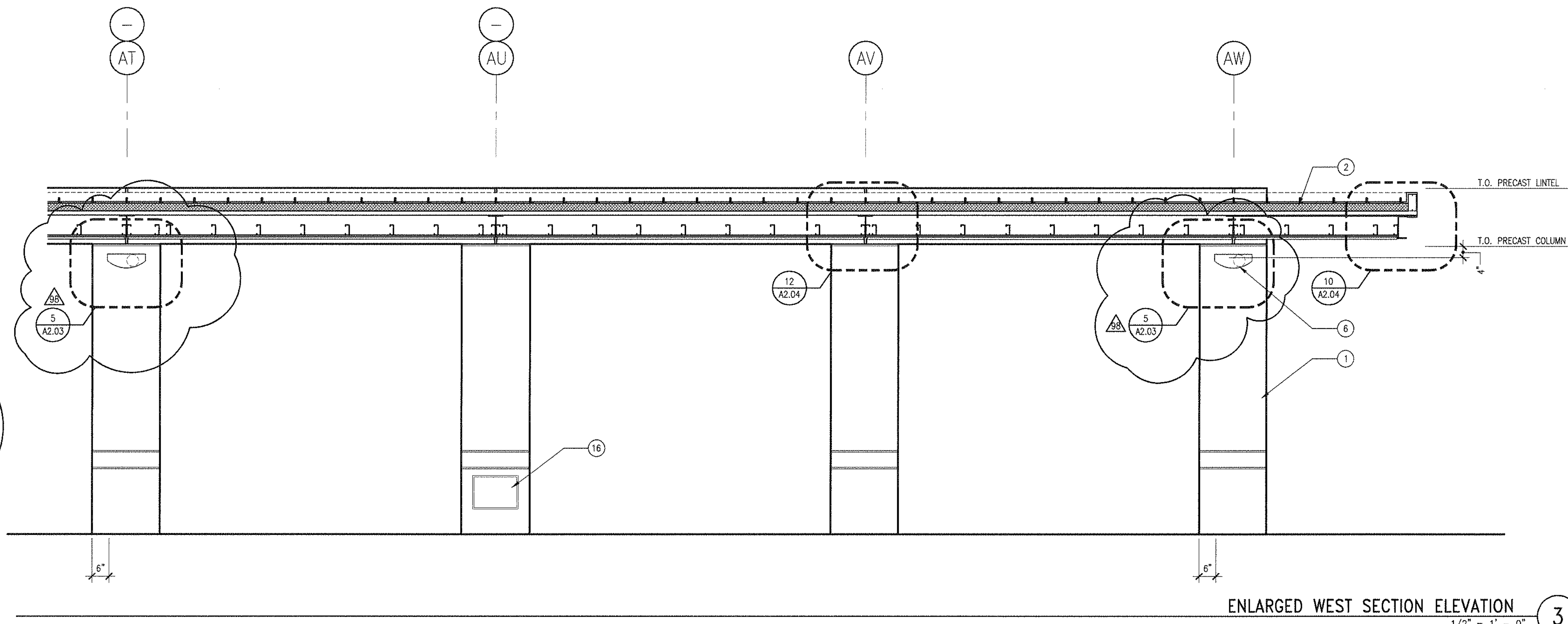
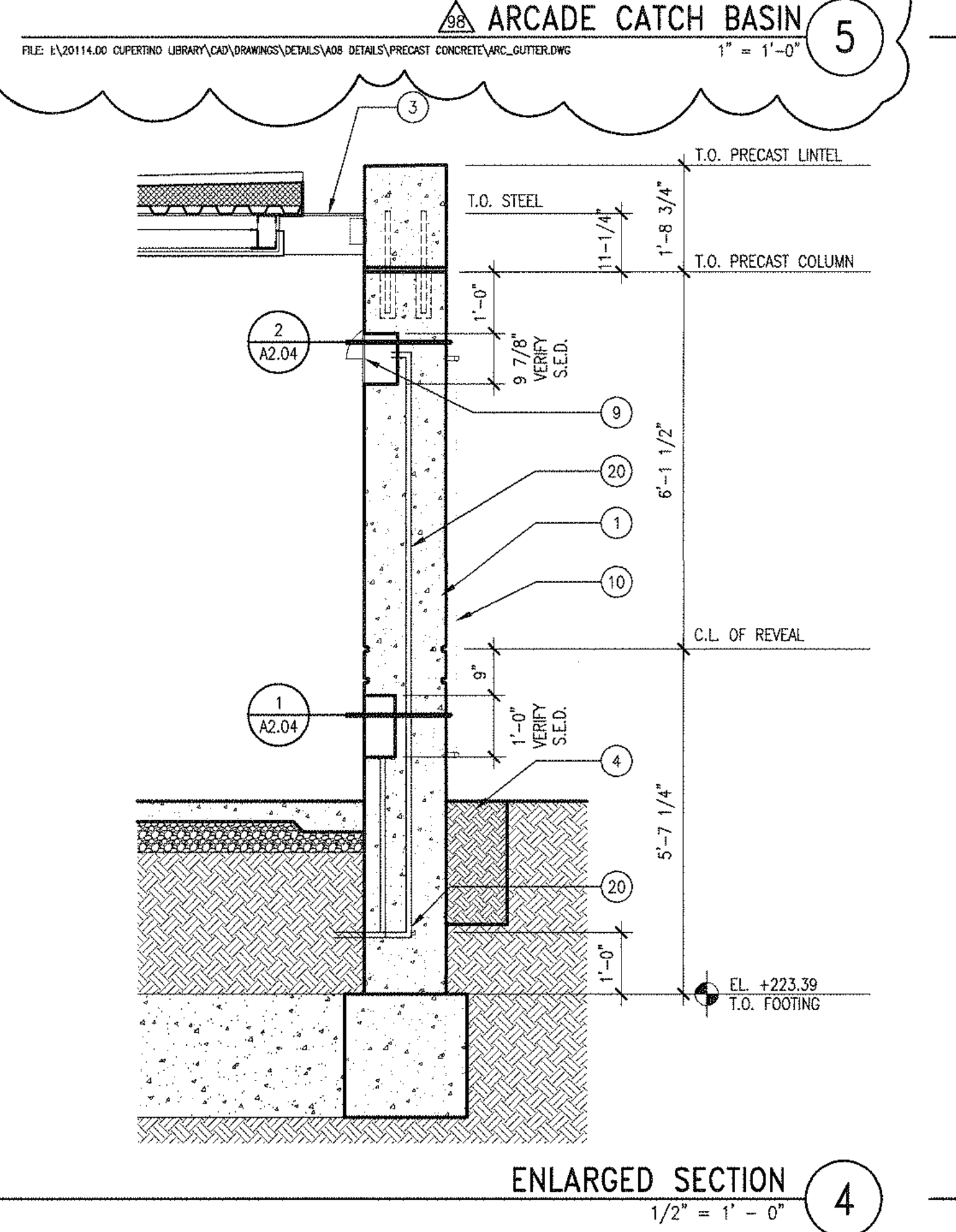
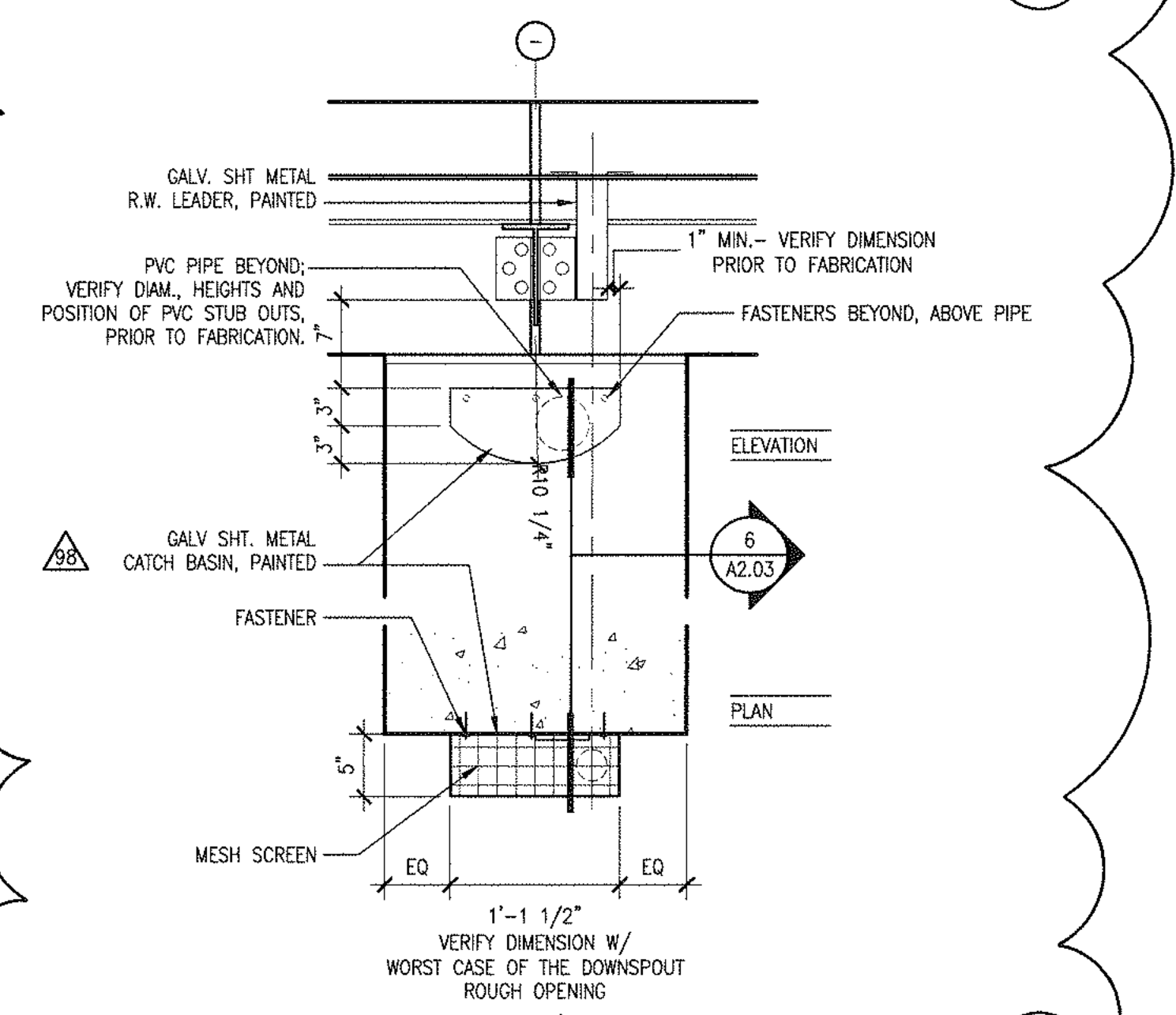
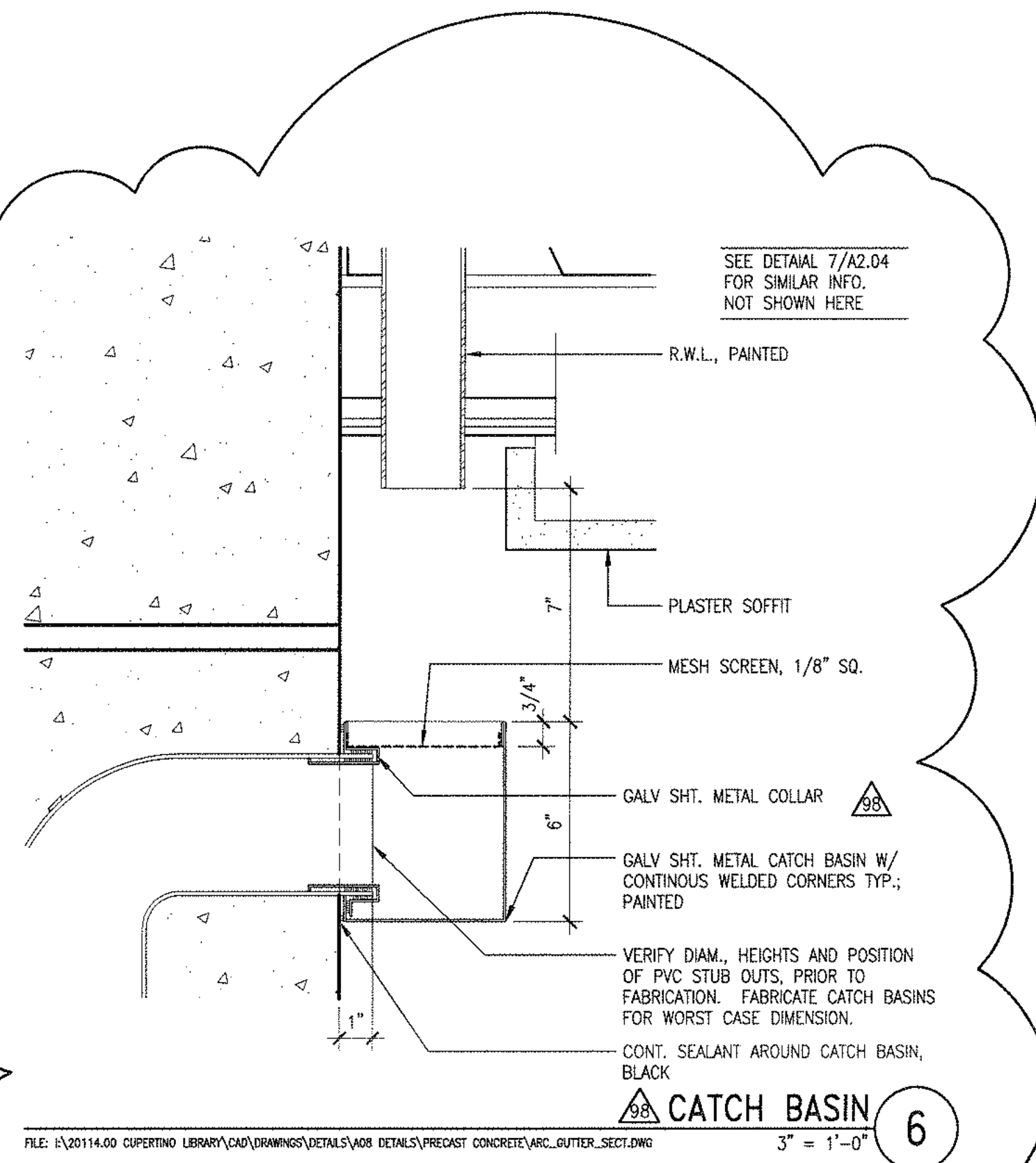
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ARCADIE EXTERIOR ELEVATIONS

scale VARIES date 2003.04.18
 drawn by GN project number 20114.00
 sheet number

A2.02

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- GENERAL NOTES
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 2. FOR TYPICAL ROOF DETAILS, SEE AB.13.
 3. FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.

- KEYNOTES
1. PRECAST CONCRETE, SQUARE CORNERS
 2. MANUFACTURED STANDING SEAM ROOF
 3. GALV. STL., PAINTED; COLOR: PC2
 4. VME. POCKET, S.L.D.
 5. INTEGRAL CUTTER
 6. GALV. SHT. METAL CATCH BASIN PAINTED; COLOR: PC2
 7. FINING JOINT, S.L.D.
 8. EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 9. RECESSED LIGHT, S.E.D.
 10. VERTICAL CABLE VME SUPPORT SYSTEM; SEE SPECIFICATION SECTION 05500
 11. TRANSLUCENT SKYLIGHT
 12. STAINLESS STL. LETTERS, N.I.C.
 13. CONCRETE PAVING, S.L.D.
 14. EXISTING COLUMN
 15. OPEN
 16. FLUSH MOUNTED RECEPTACLE WITH S.S.T. COVER PLATE, S.E.D.
 17. GALV. 1/8\"/>
 - 18. CHAIN LINK FENCE- PLASTIC COATED W/ WD. SLATS
 - 19. PAINTED GALV. STL. DECK, S.S.D.; COLOR: PC2
 - 20. CAST IN PLACE CONDUIT, S.E.D.
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 - 22. GALV. STL. GATE WITH HYV. GAGE CONTINUOUS STL. HINGE, CANE BOLT AND HASP; PAINTED; COLOR: PC2
 - 23. 1/2 GALV. STL. ROD DIAGONAL BRACING, PAINTED; COLOR: PC2
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 - 25. EXPANSION JOINT; SEE 17/AB.14
 - 26. CEM. PLASTER OVER 2 LAYERS BLDG. PAPER OVER O.P. SHEATHING OVER SUSPENDED 3 5/8\"/>

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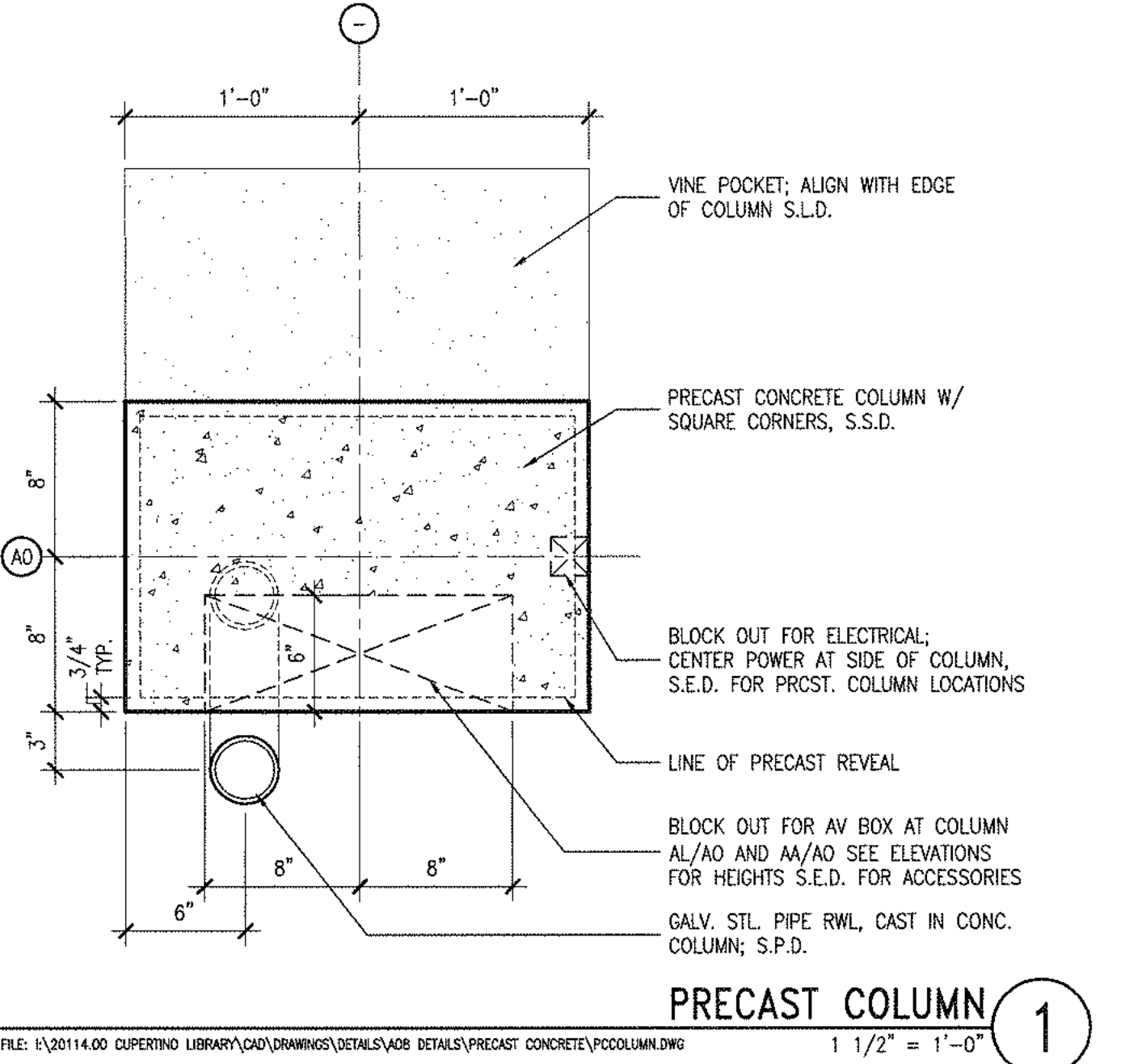
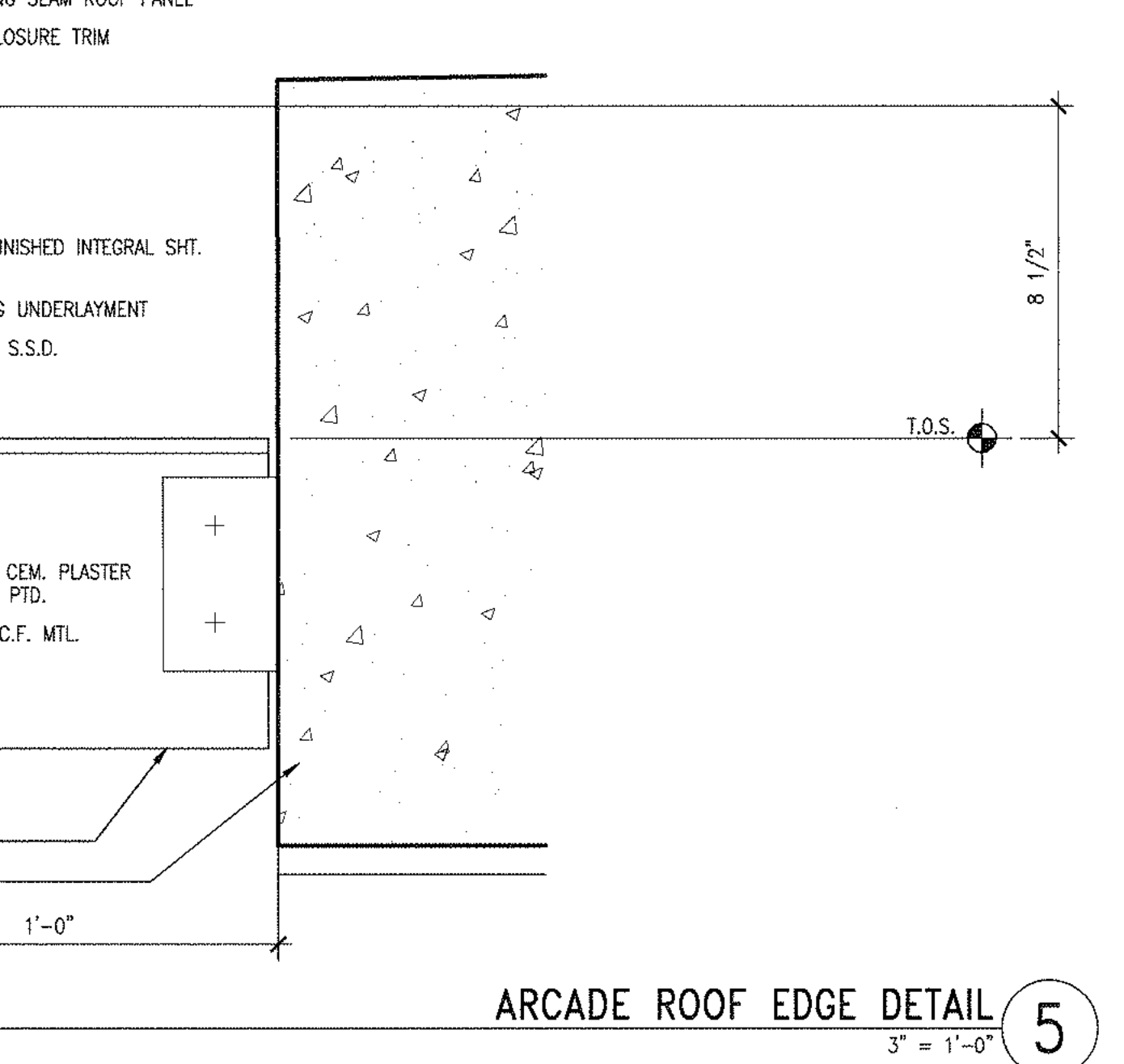
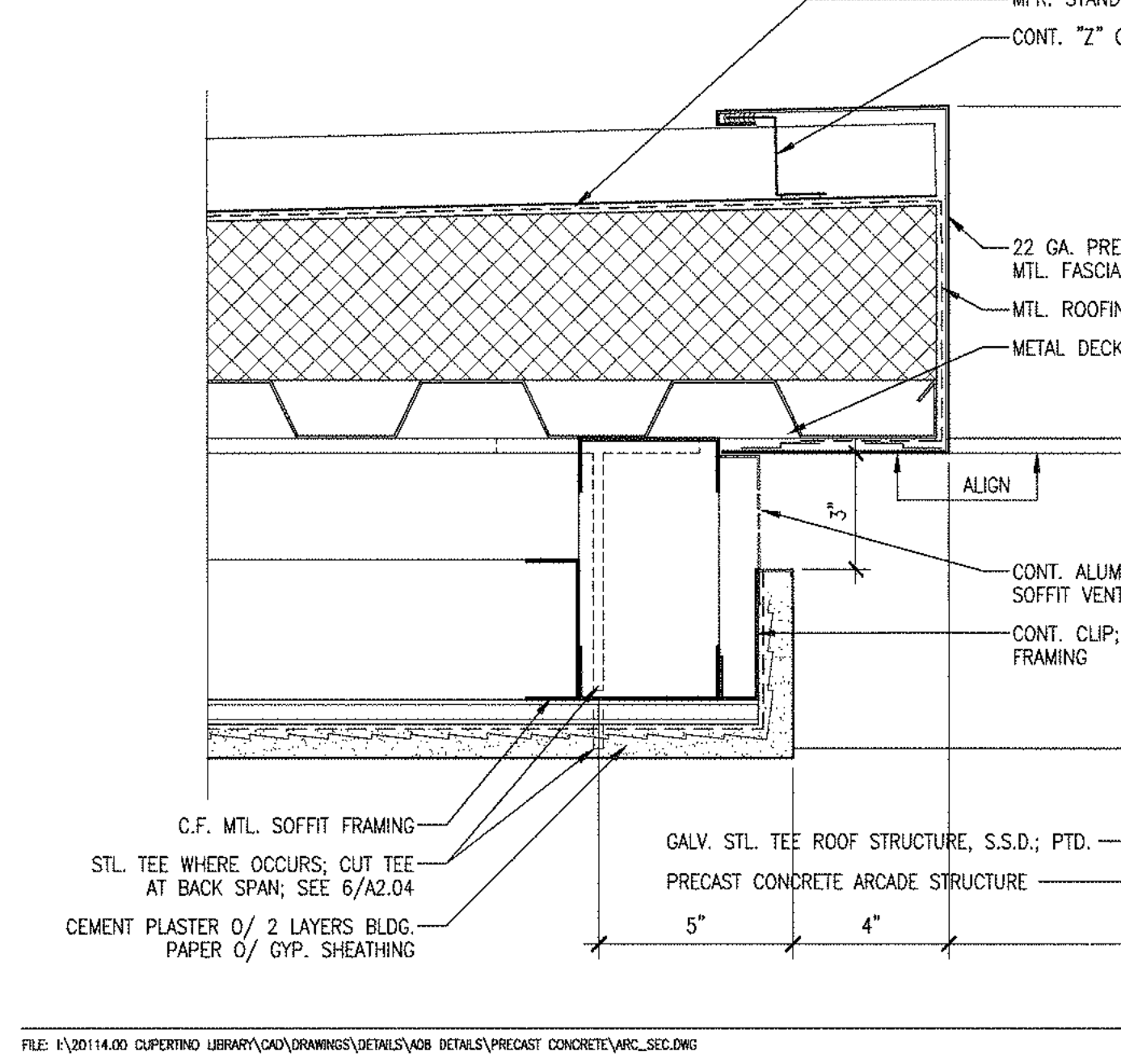
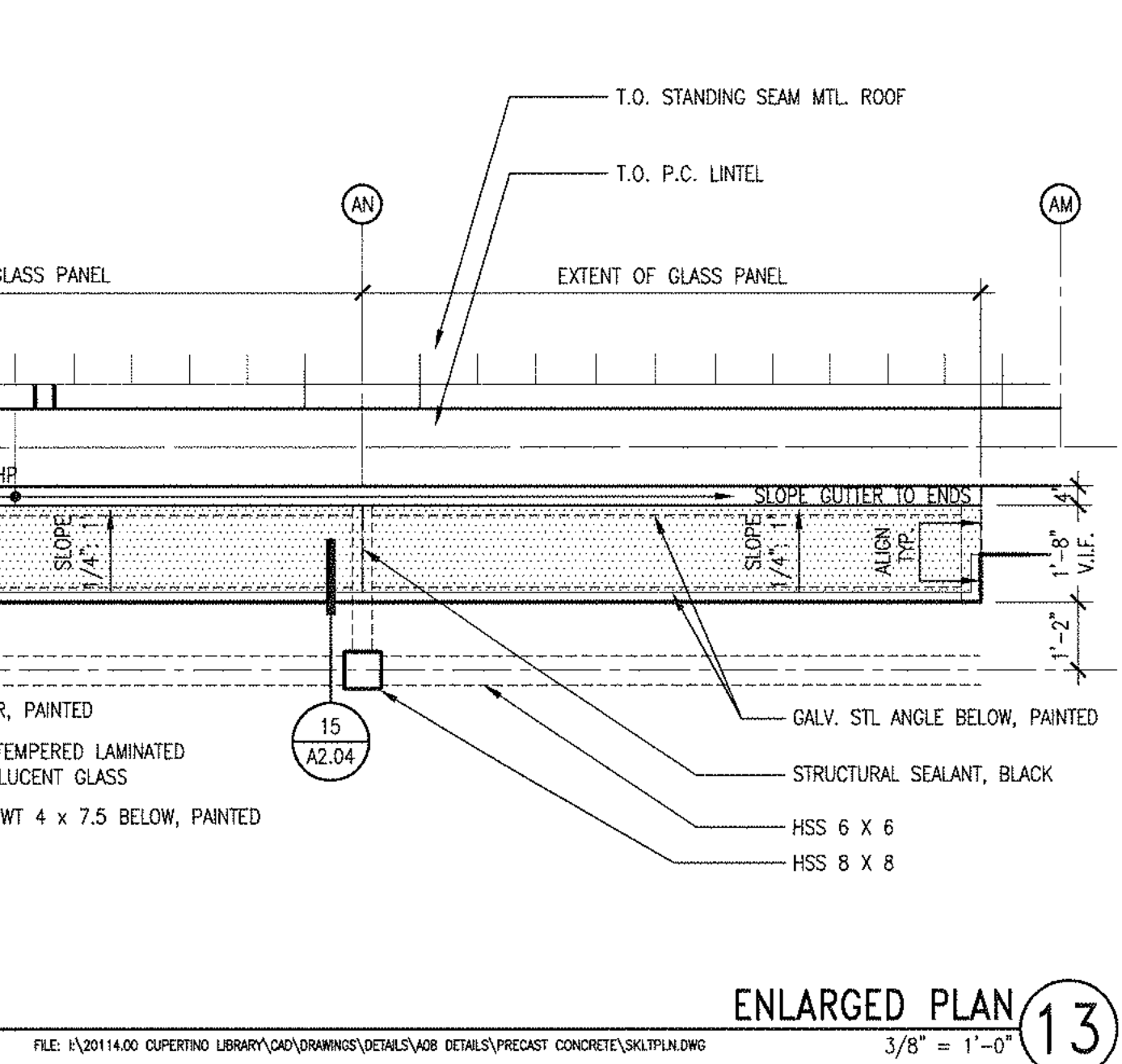
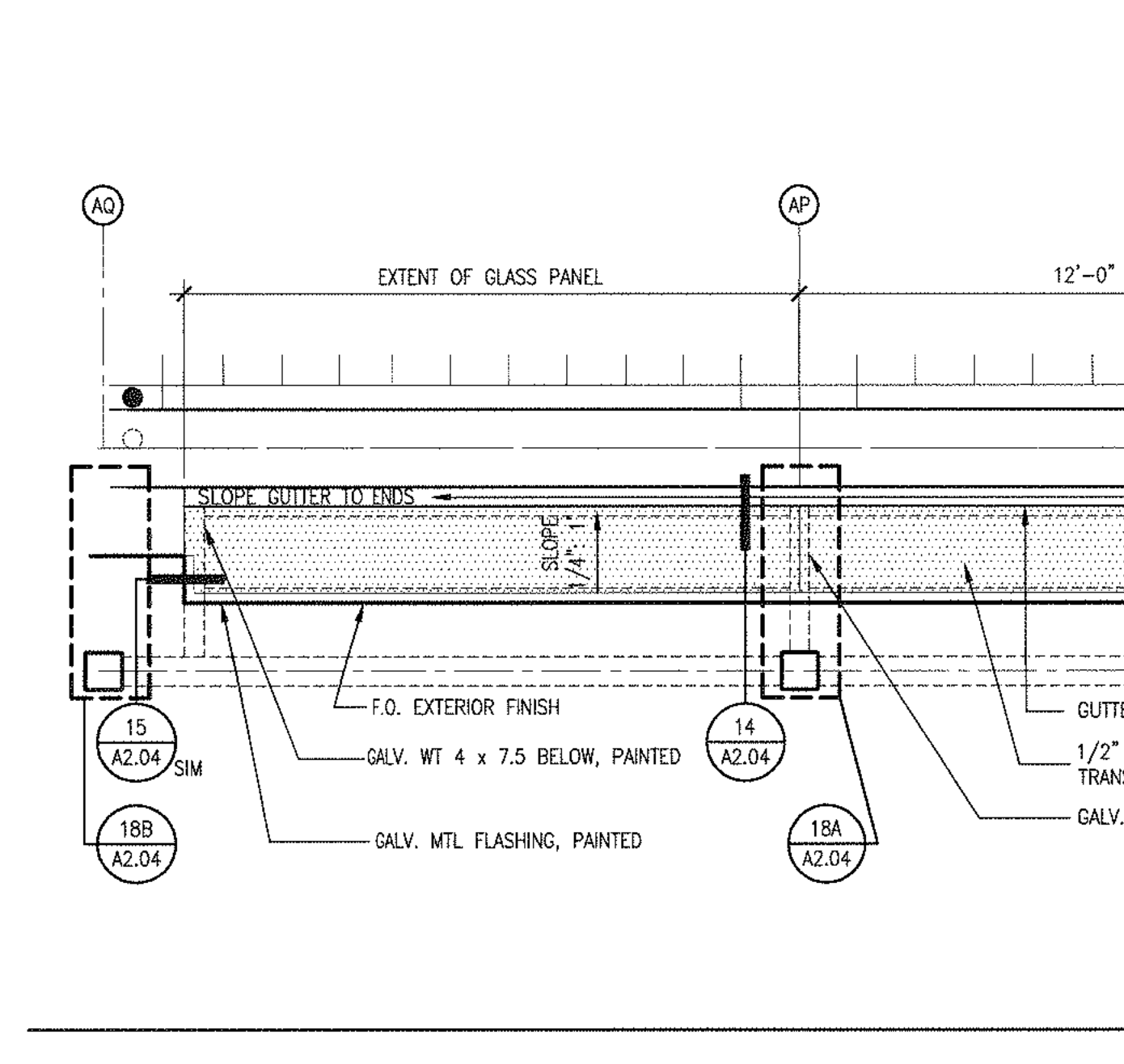
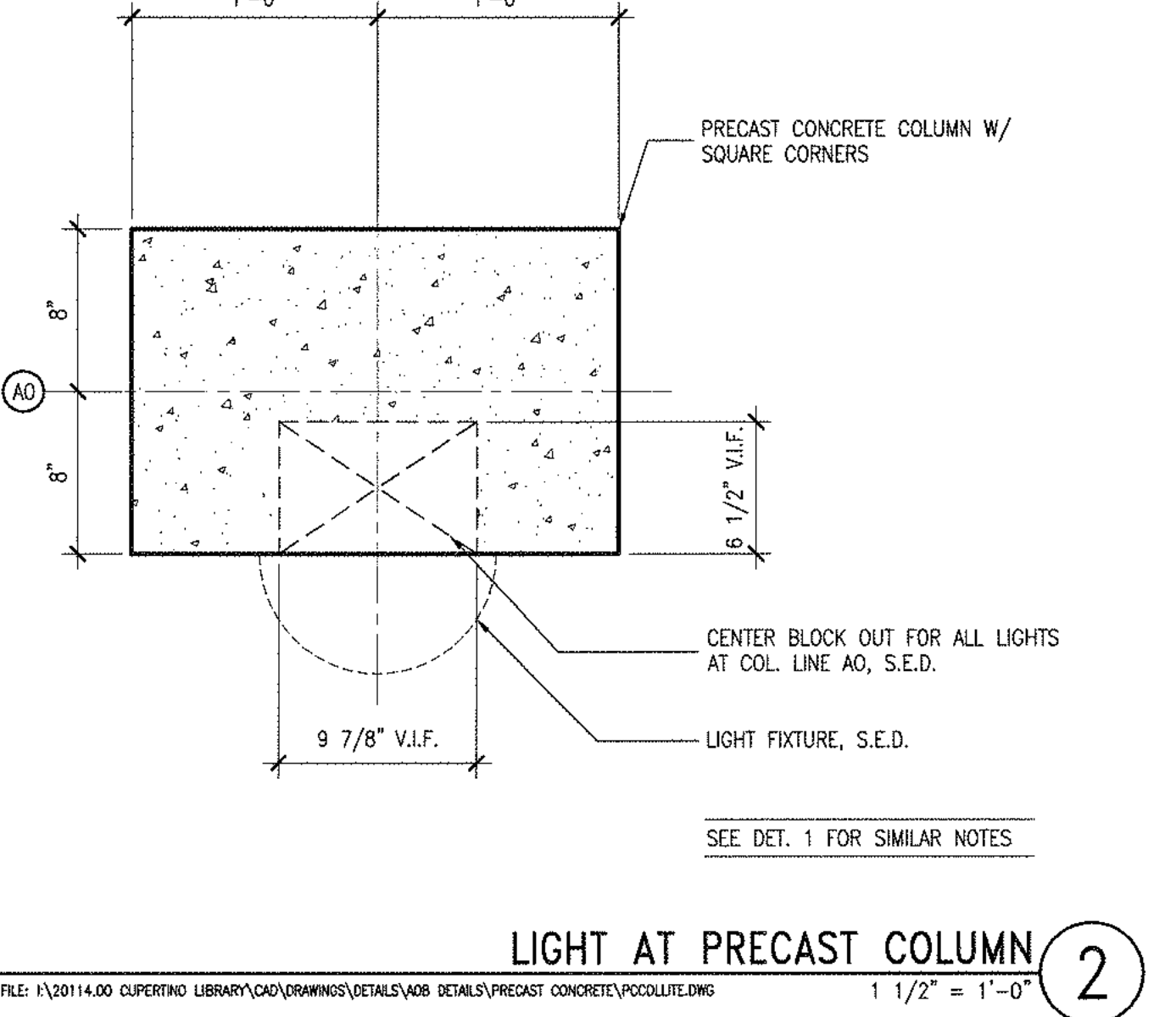
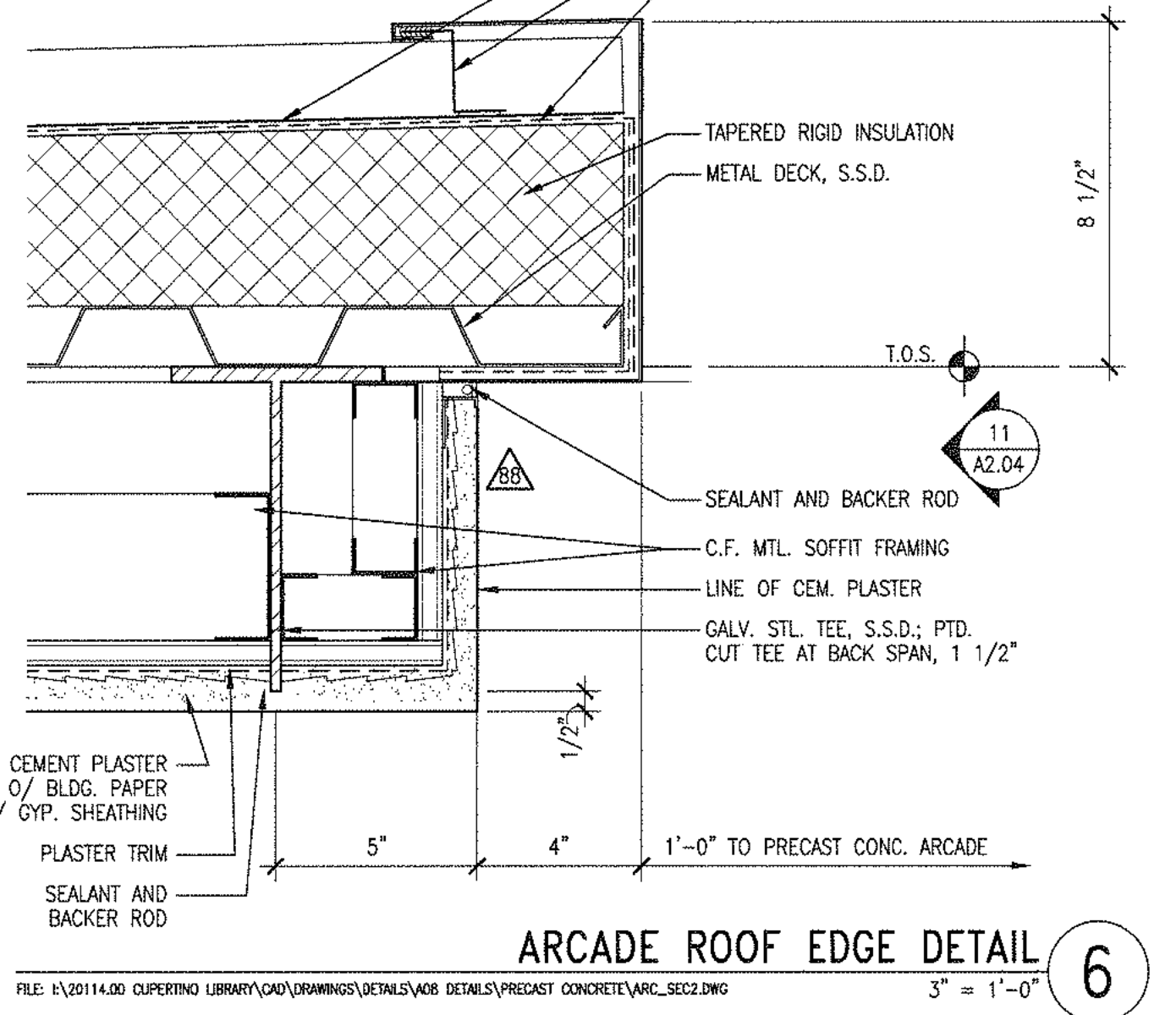
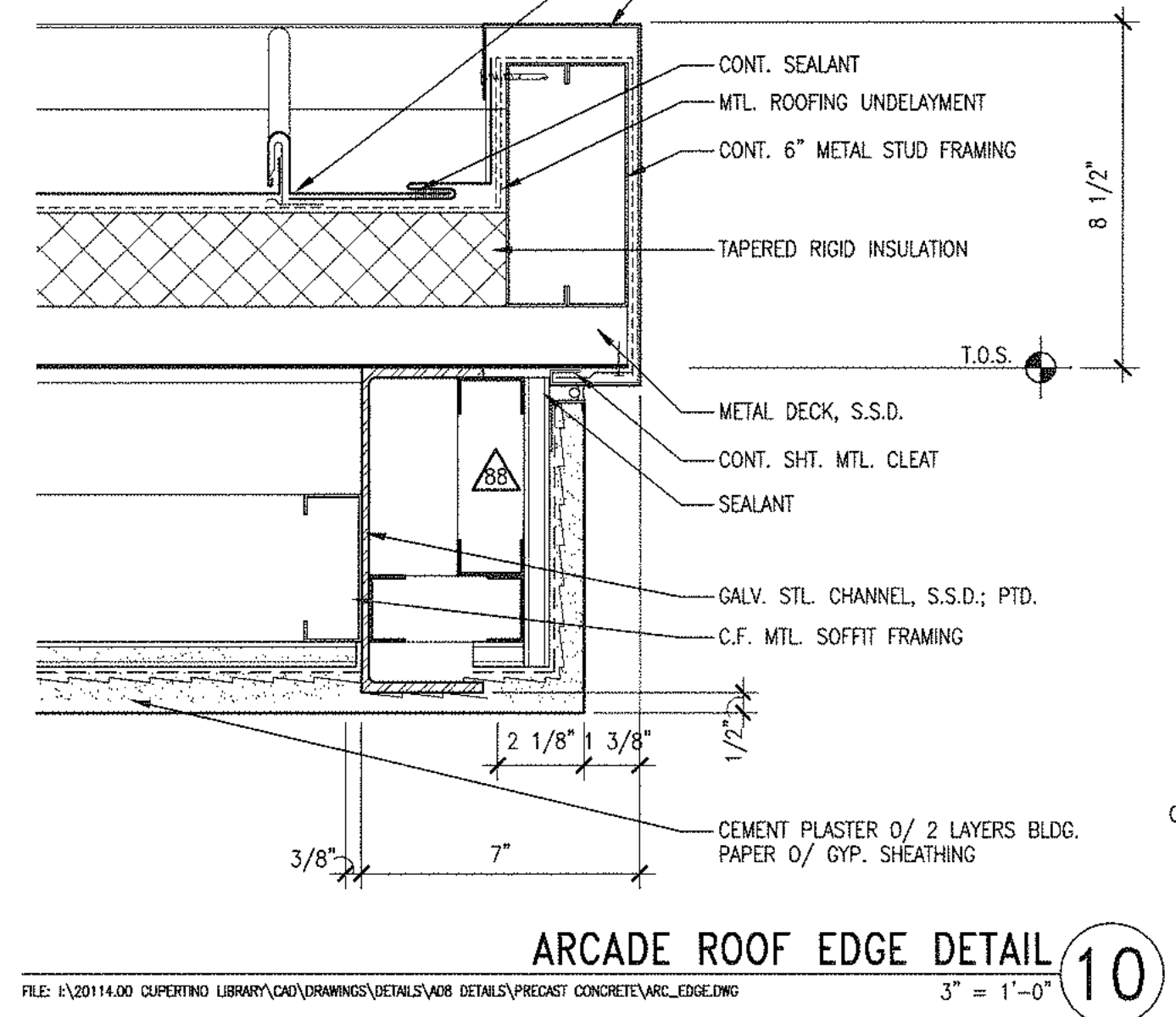
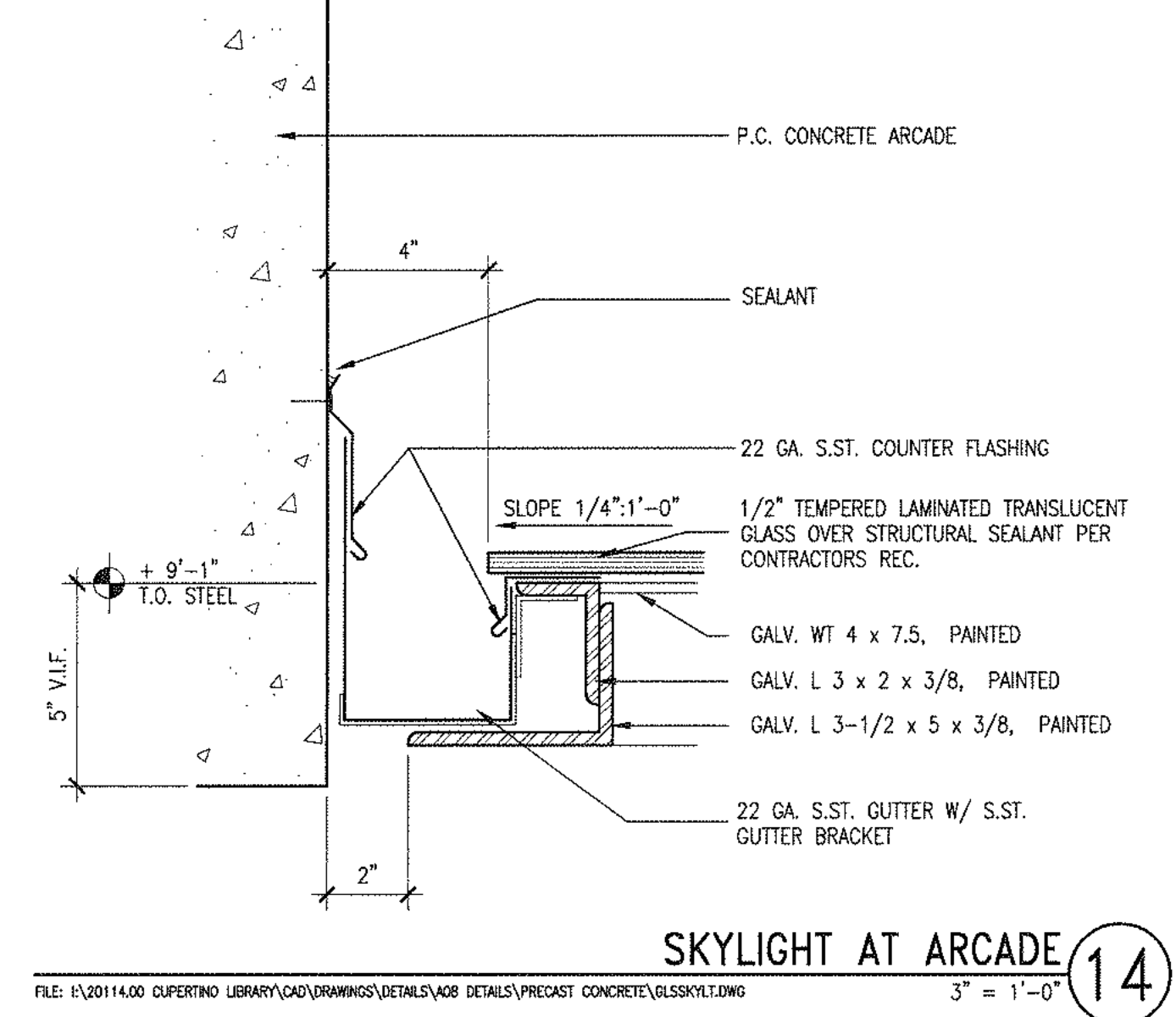
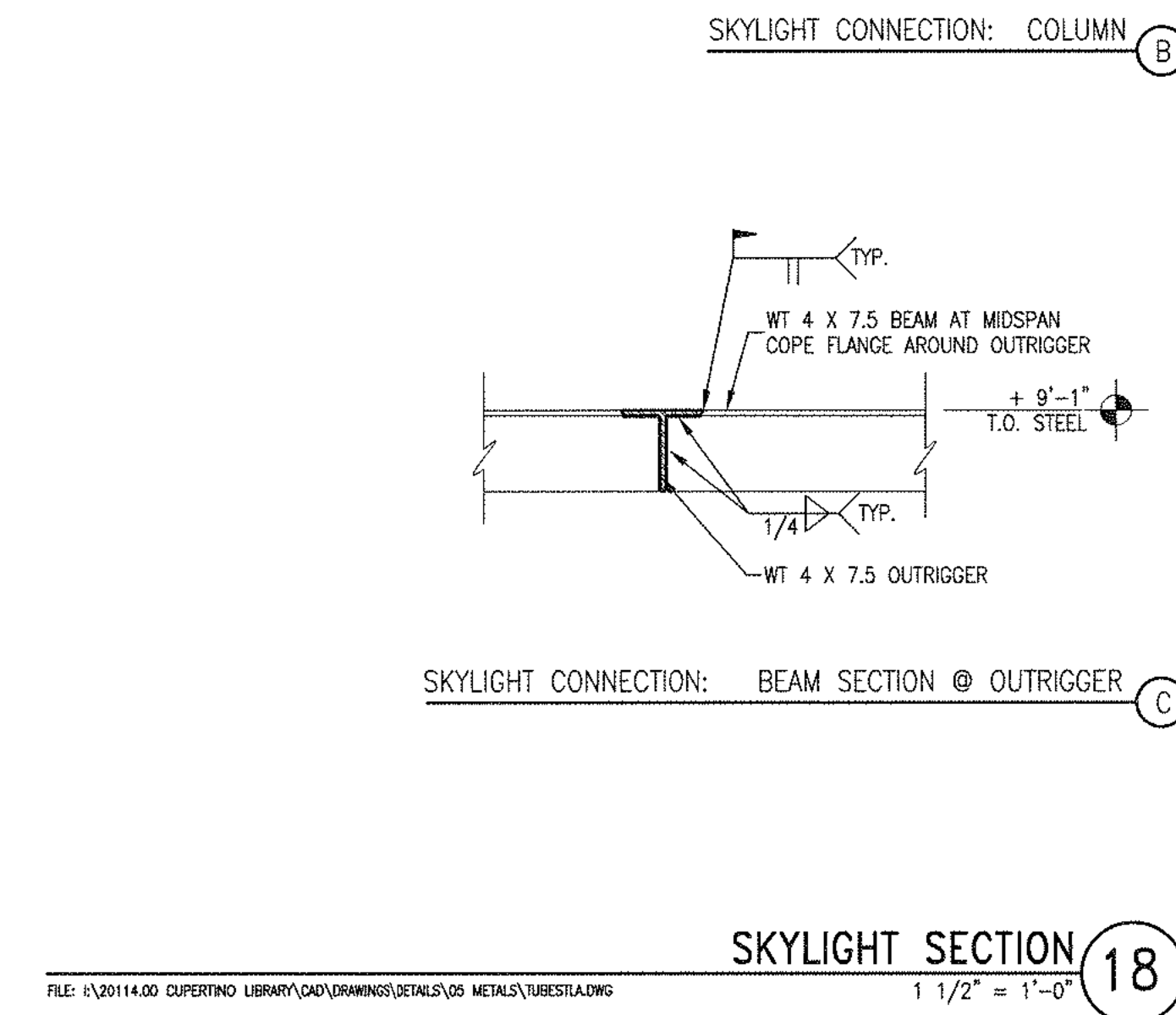
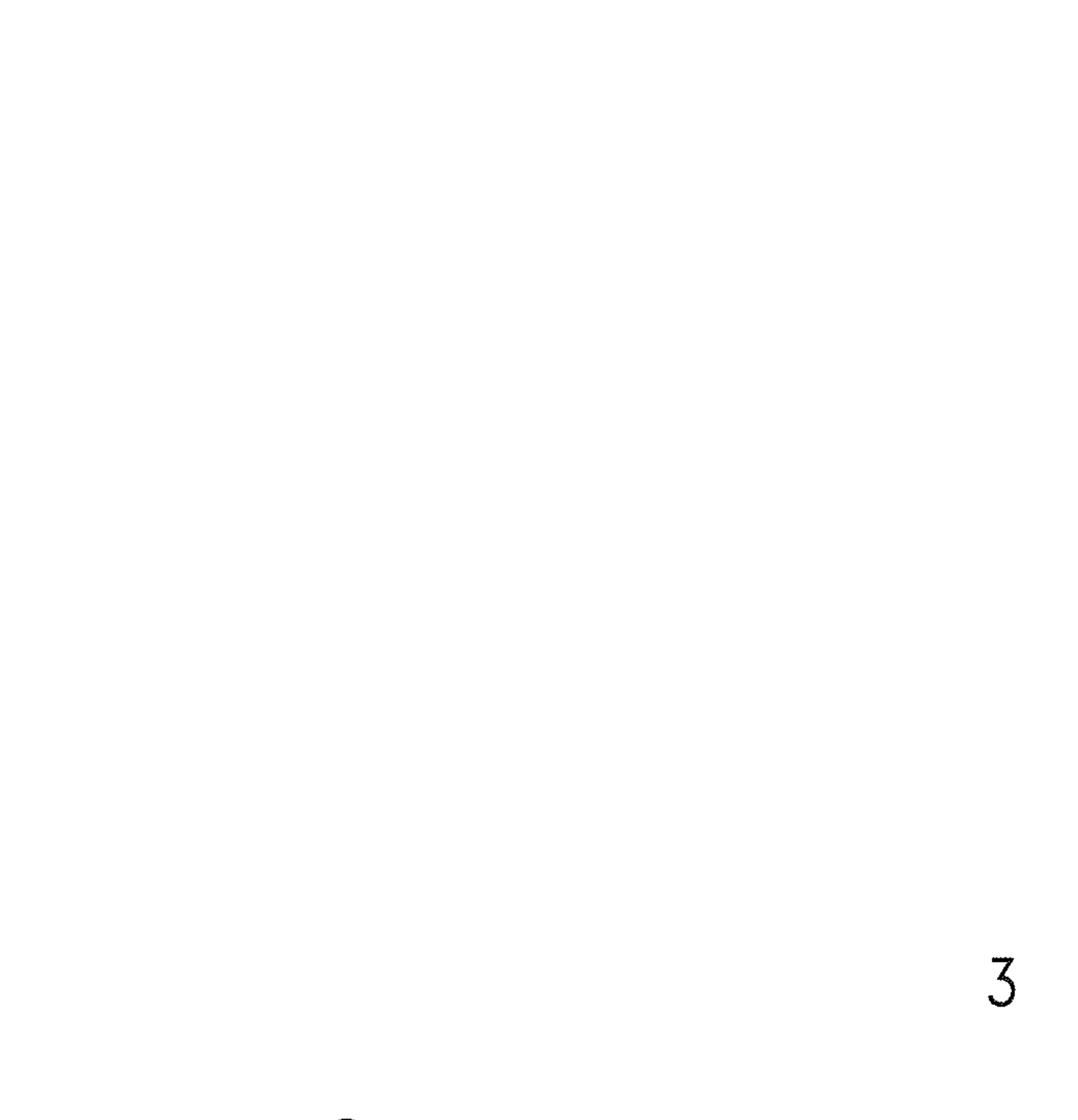
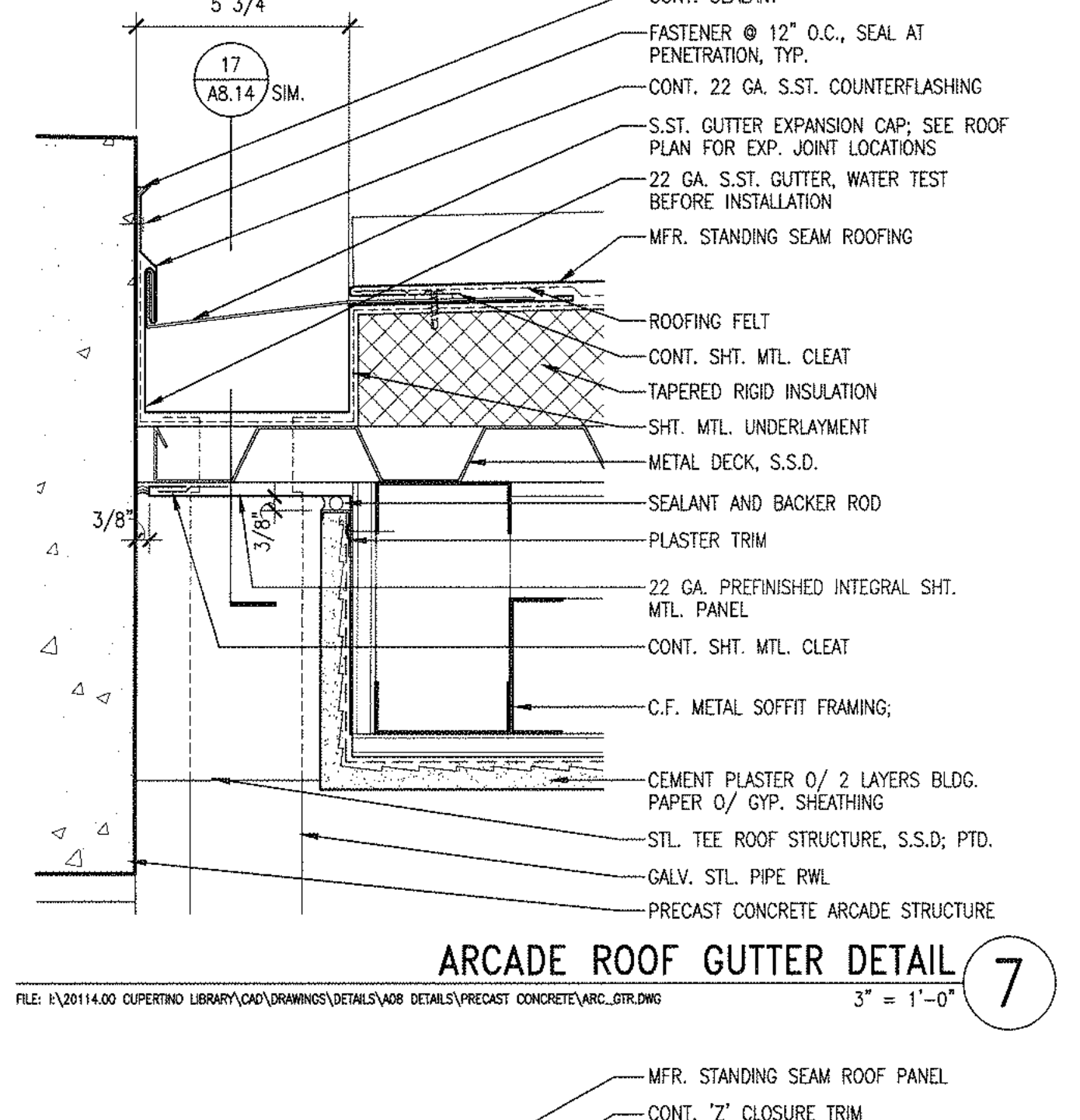
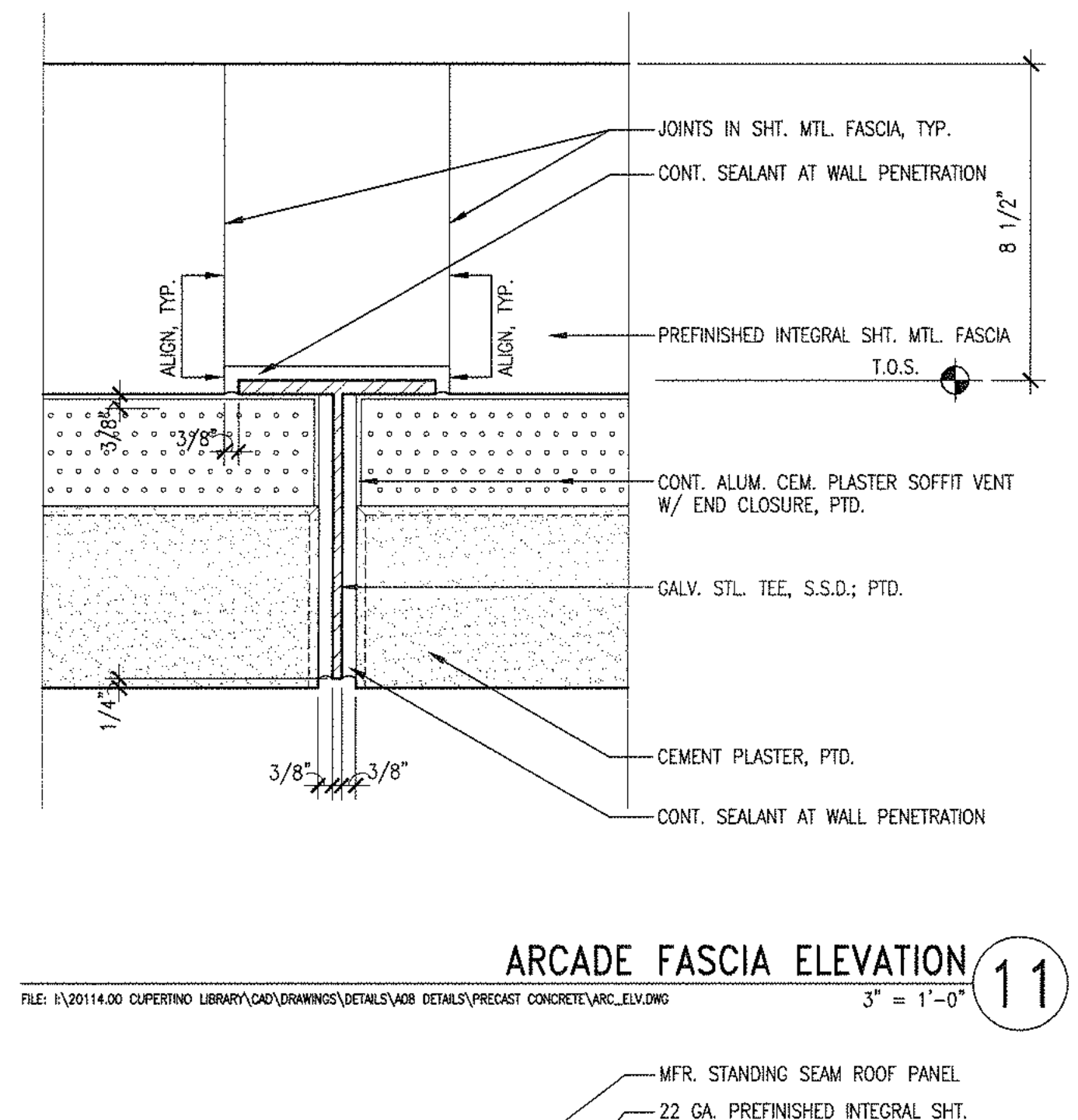
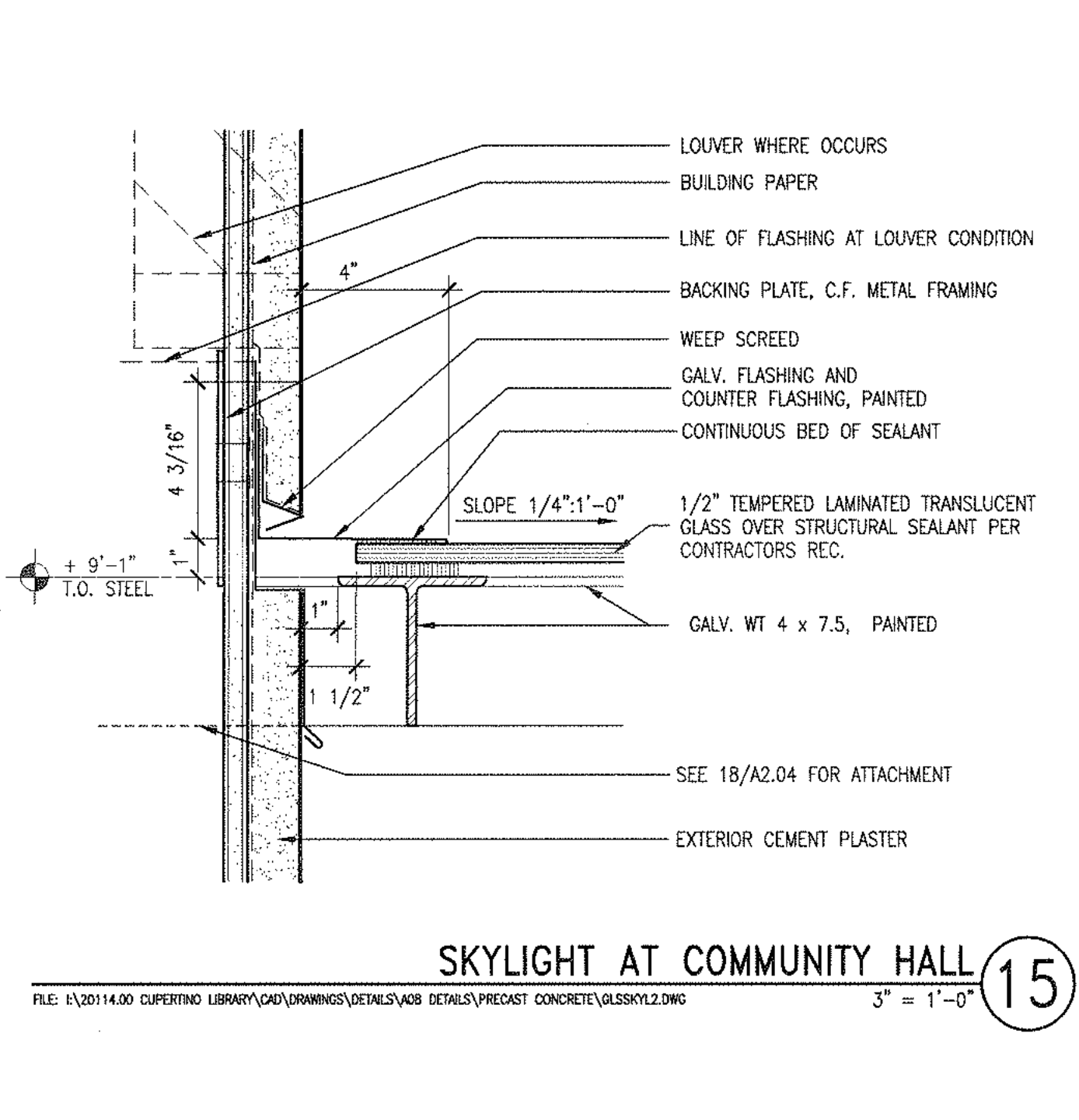
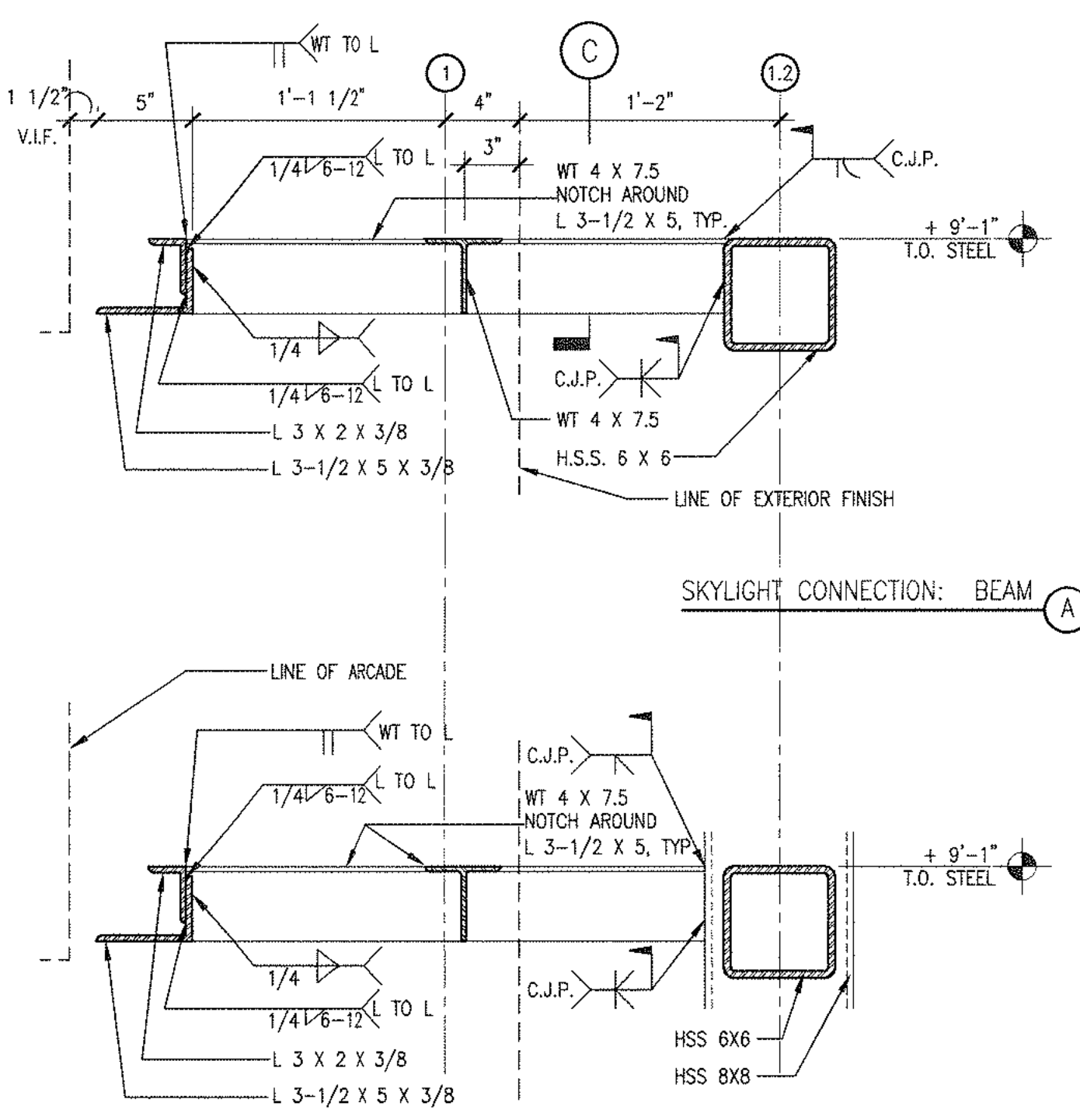
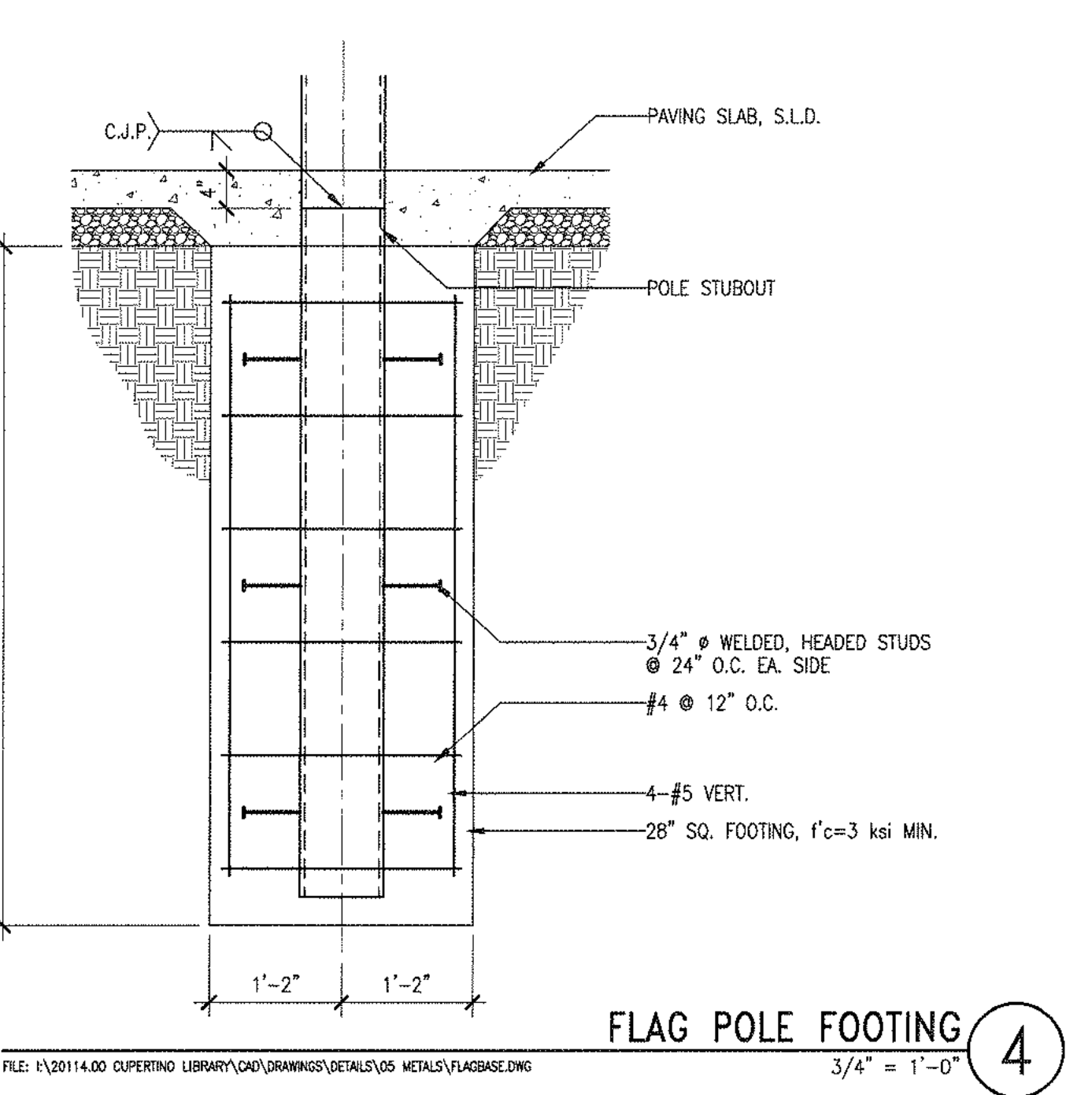
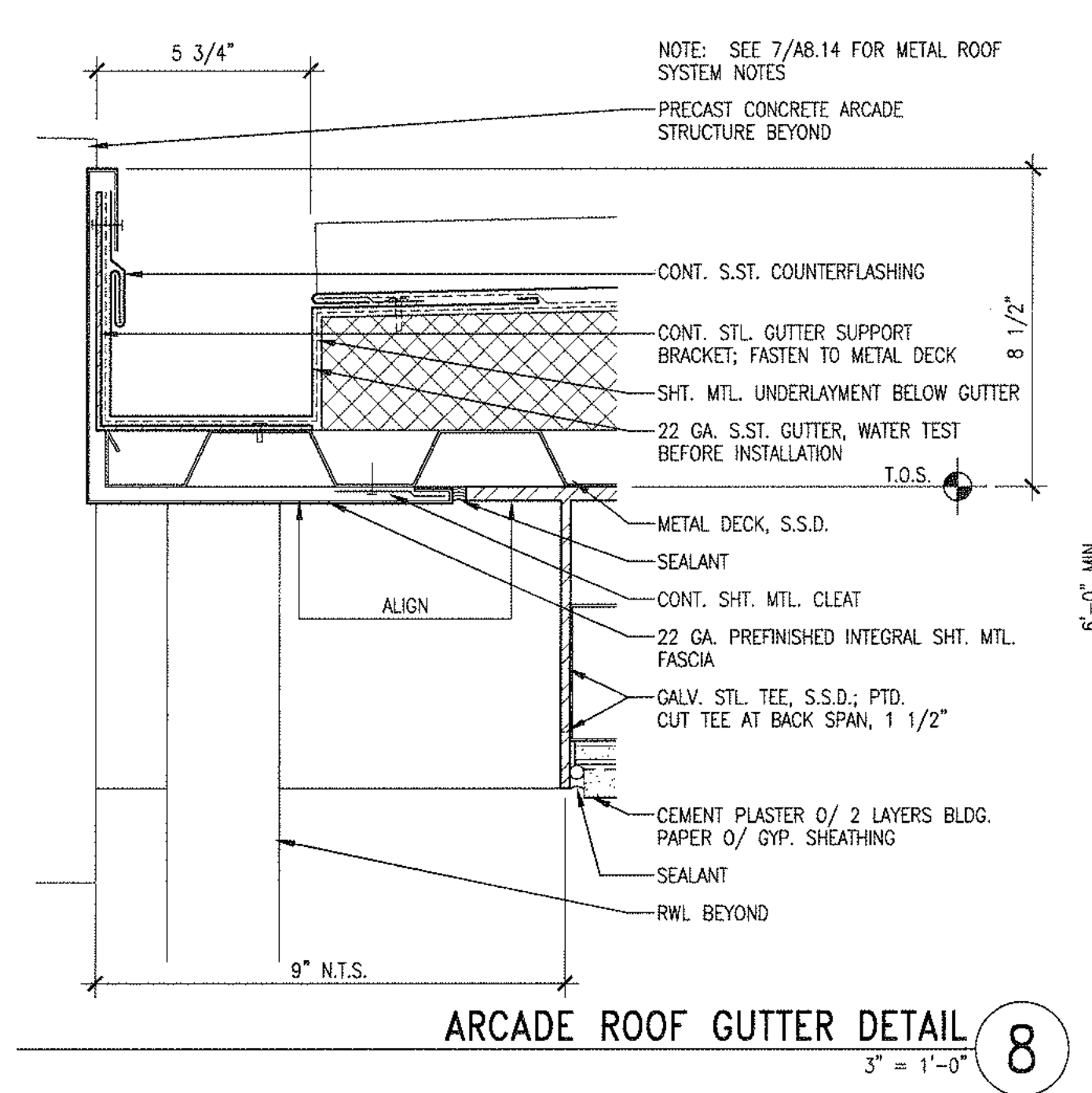
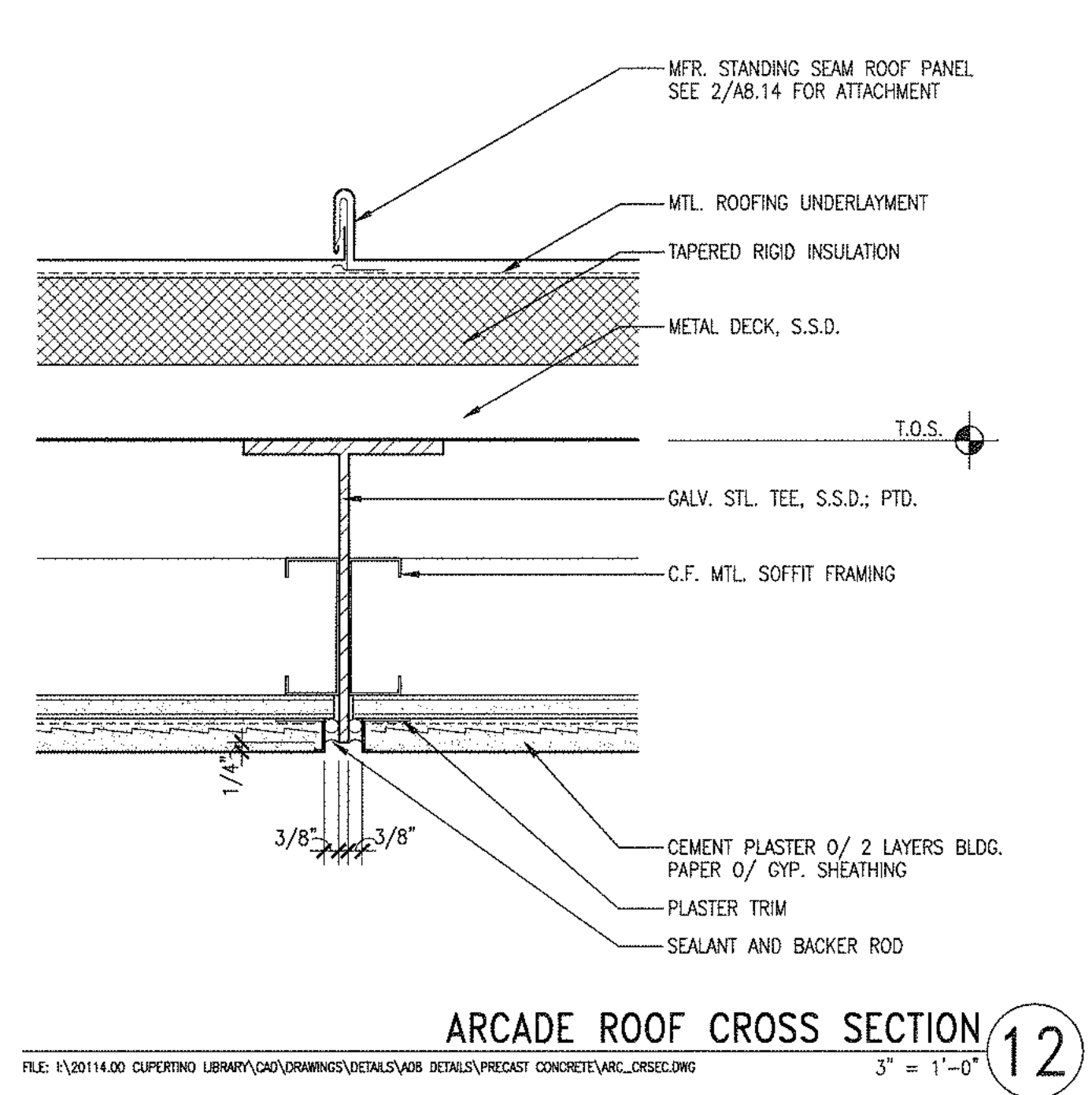
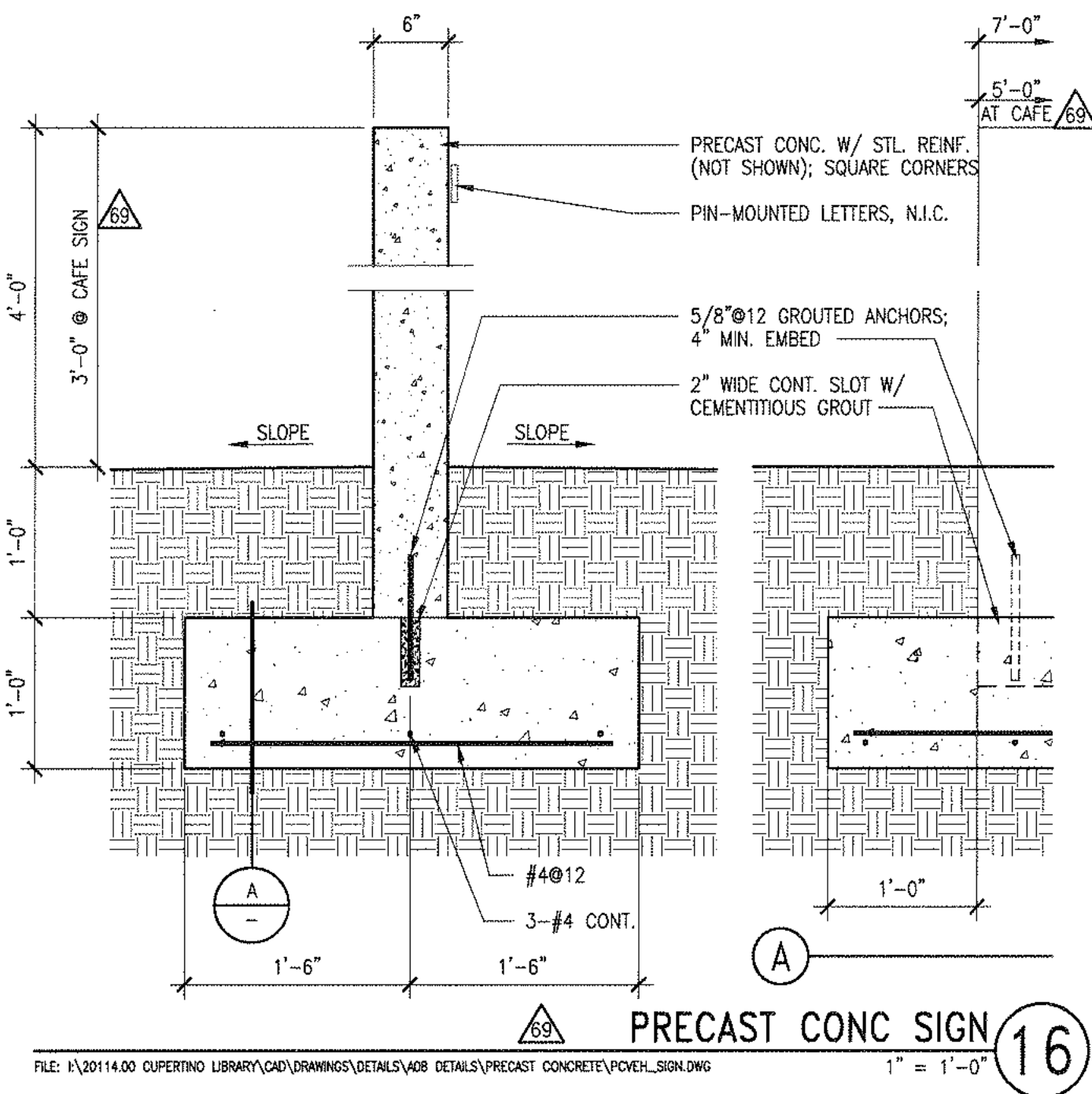
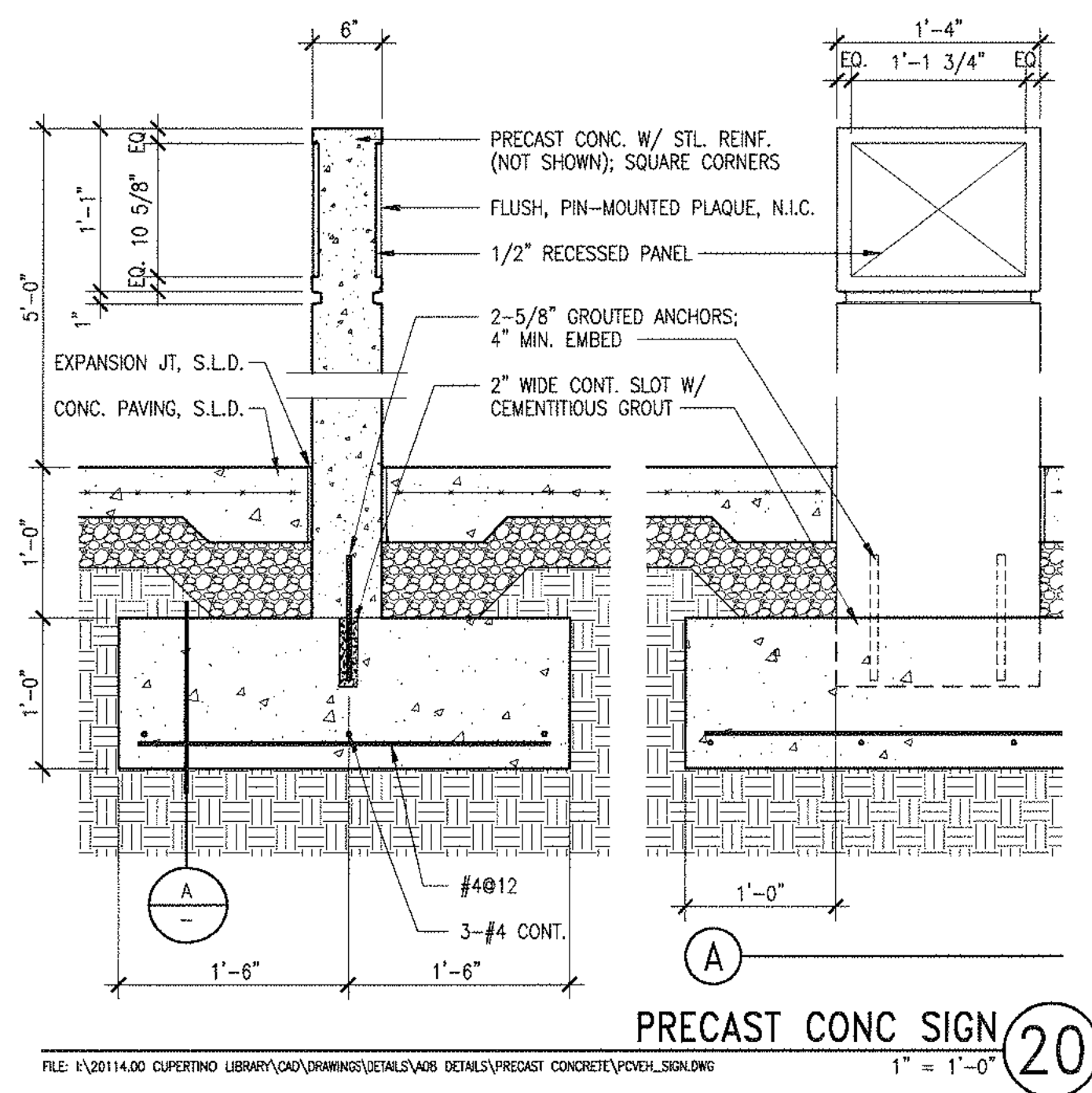
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SHEET DATE: 10

ARCADÉ
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SCALE: 1/2" = 1'-0"
 date: 2003.04.18
 drawn by: GN project number: 20114.00
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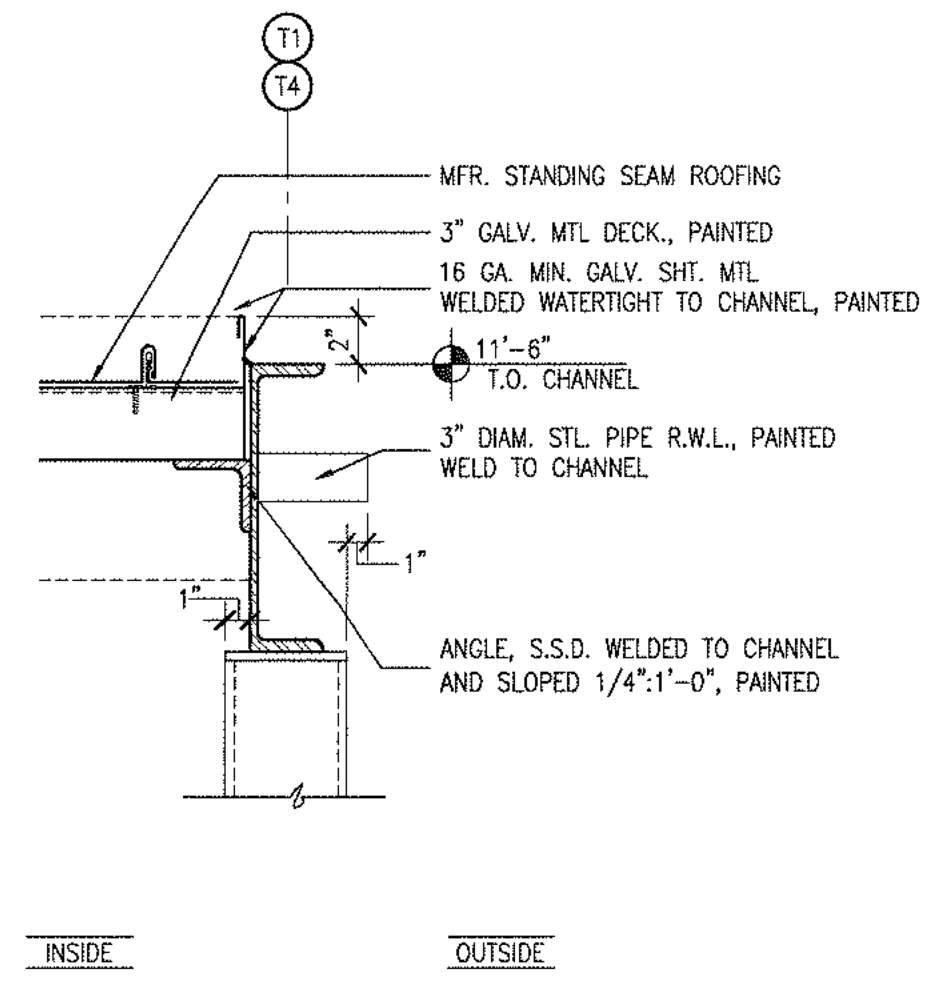
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 STATE OF CALIFORNIA

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 ARCADE
 DETAILS

AS NOTED
 2003.04.18
 project number 20114.00

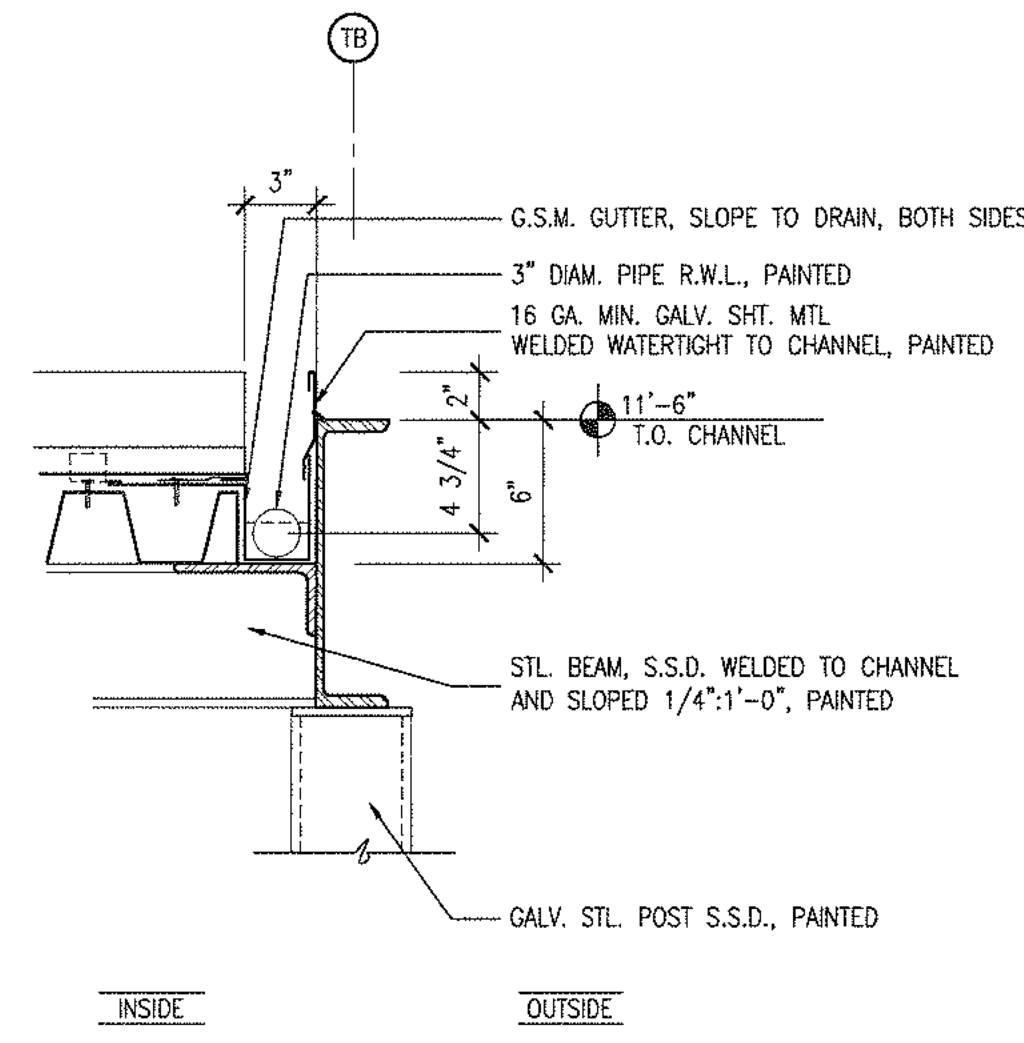
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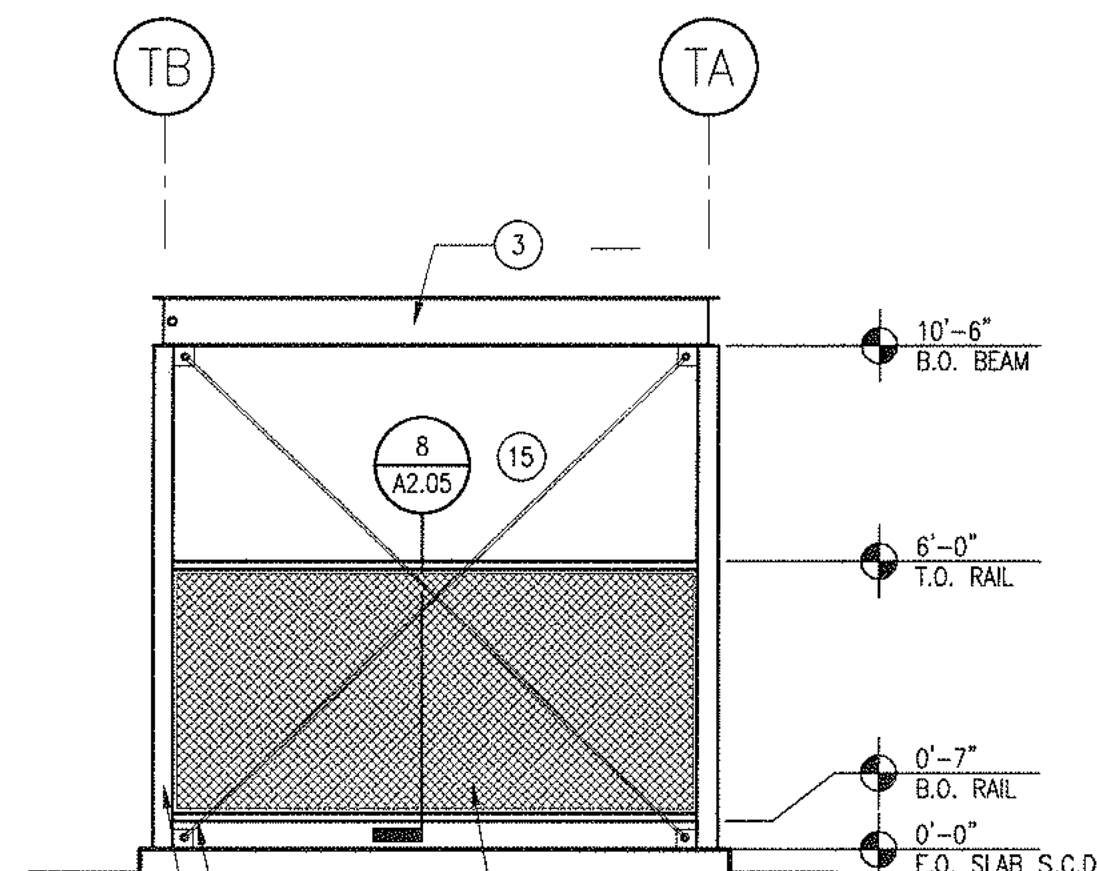
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RAKE 15
1 1/2" = 1'-0"

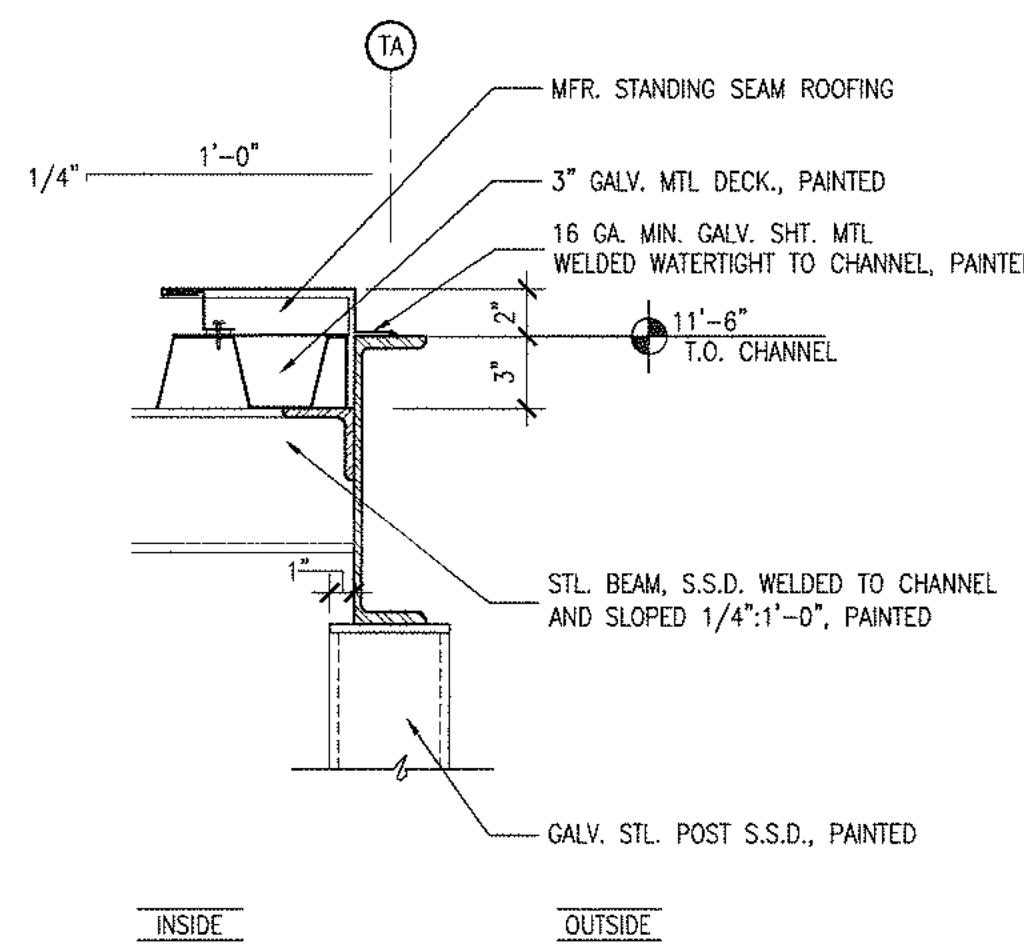


NOTE: ALL STL. TO BE GALVANIZED

LOW EAVE AND GUTTER 11
1 1/2" = 1'-0"

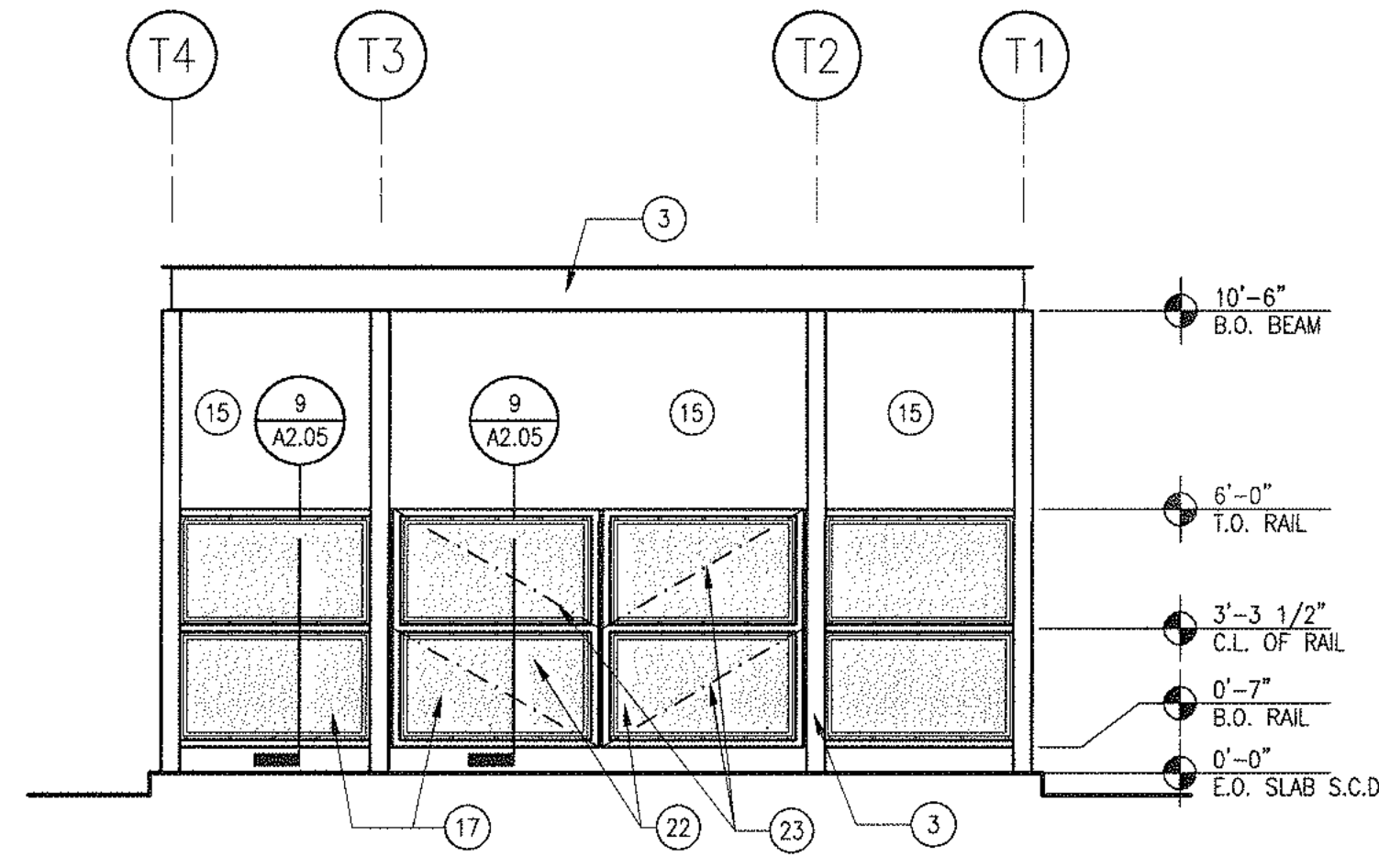


TRASH ENCLOSURE ELEVATION 7
1/4" = 1'-0"

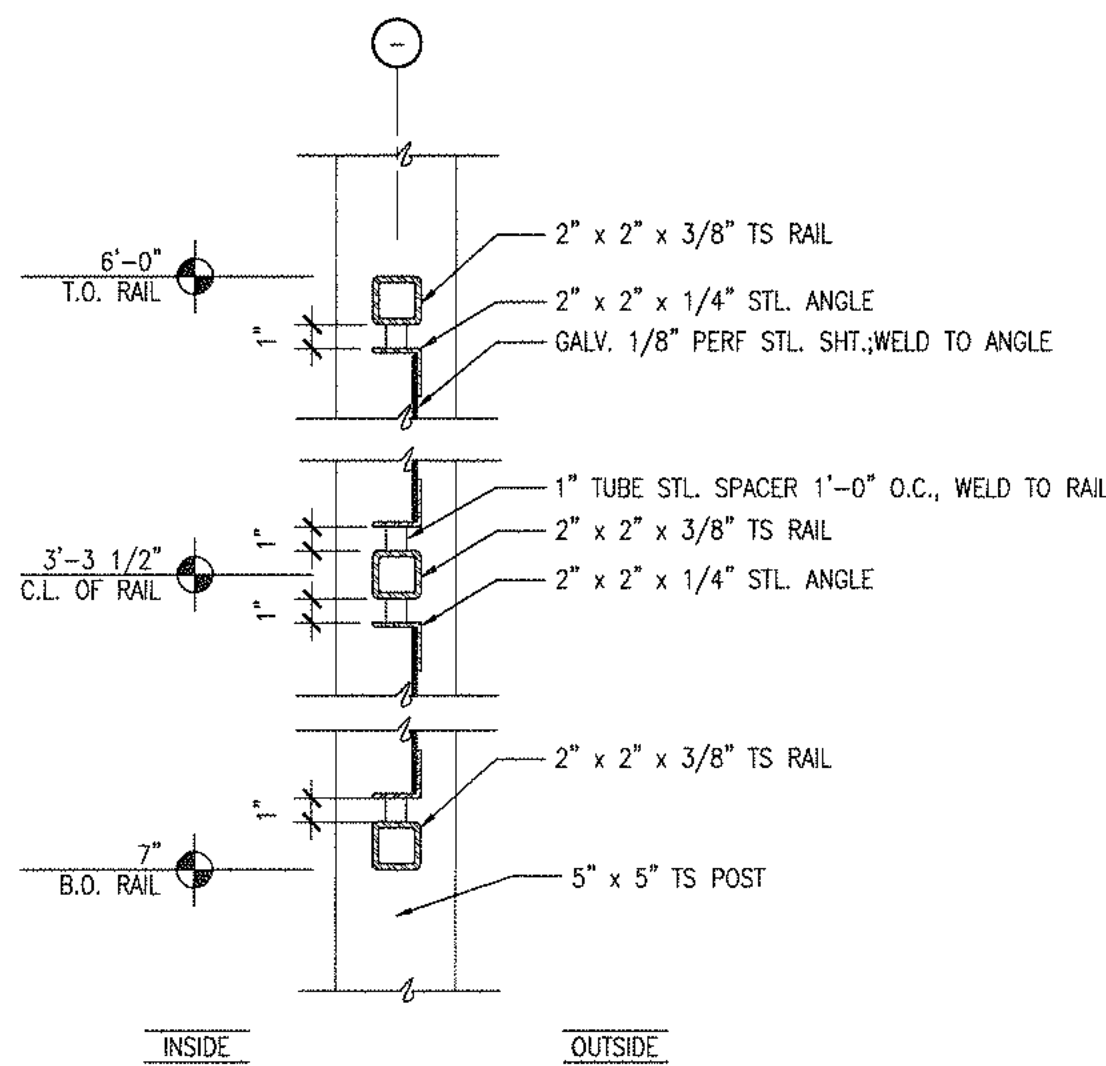


NOTE: ALL STL. TO BE GALVANIZED

HIGH EAVE 10
1 1/2" = 1'-0"

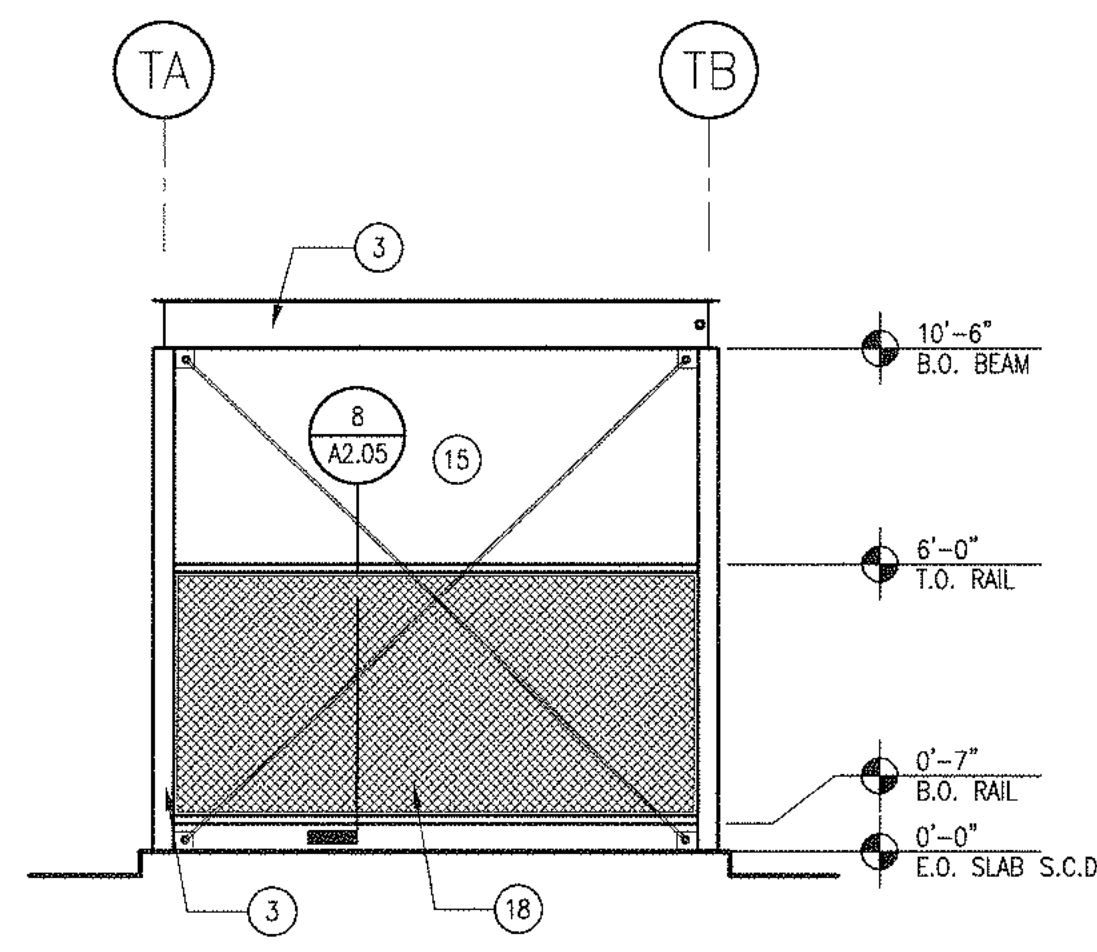


TRASH ENCLOSURE ELEVATION 6
1/4" = 1'-0"

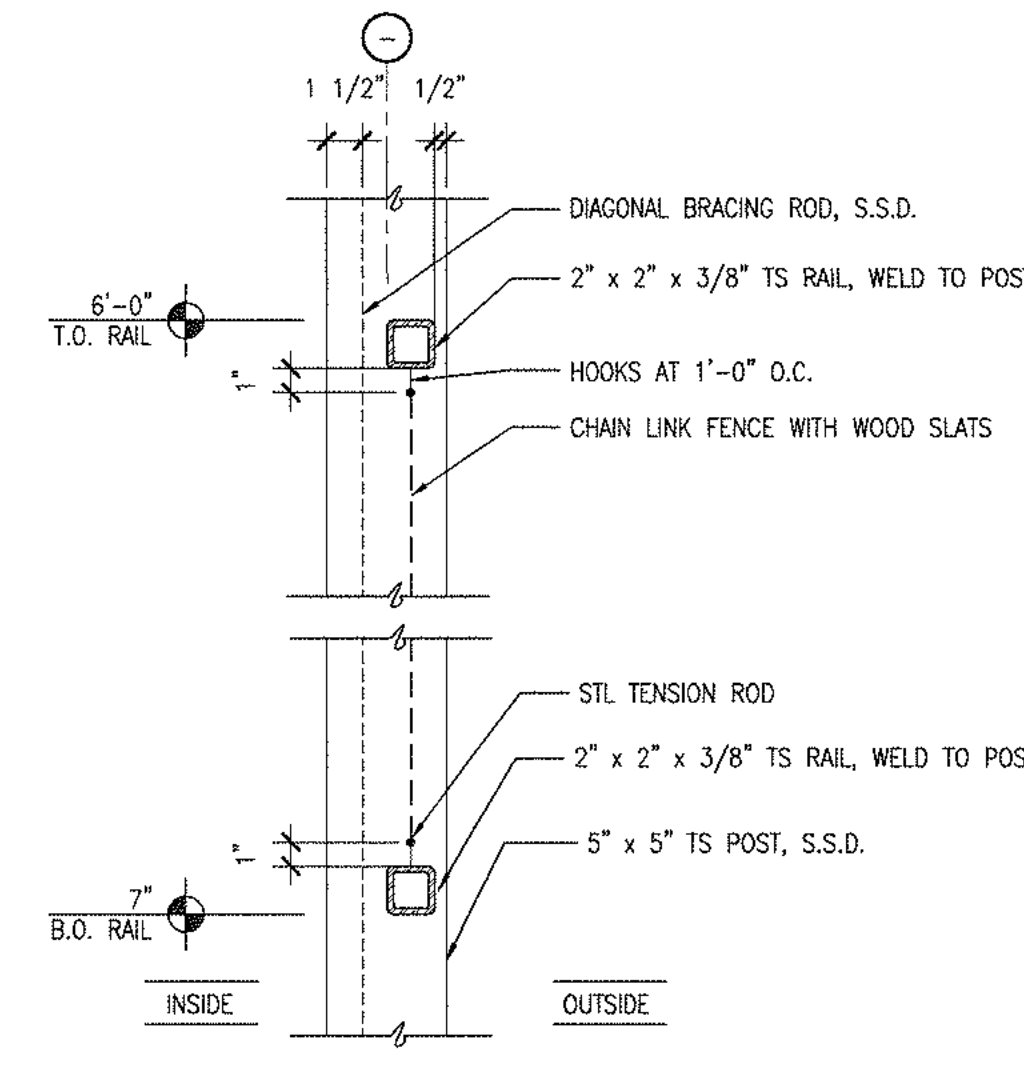


NOTE: ALL STL. TO BE GALVANIZED

PERF. METAL PANEL SECTION 9
1 1/2" = 1'-0"

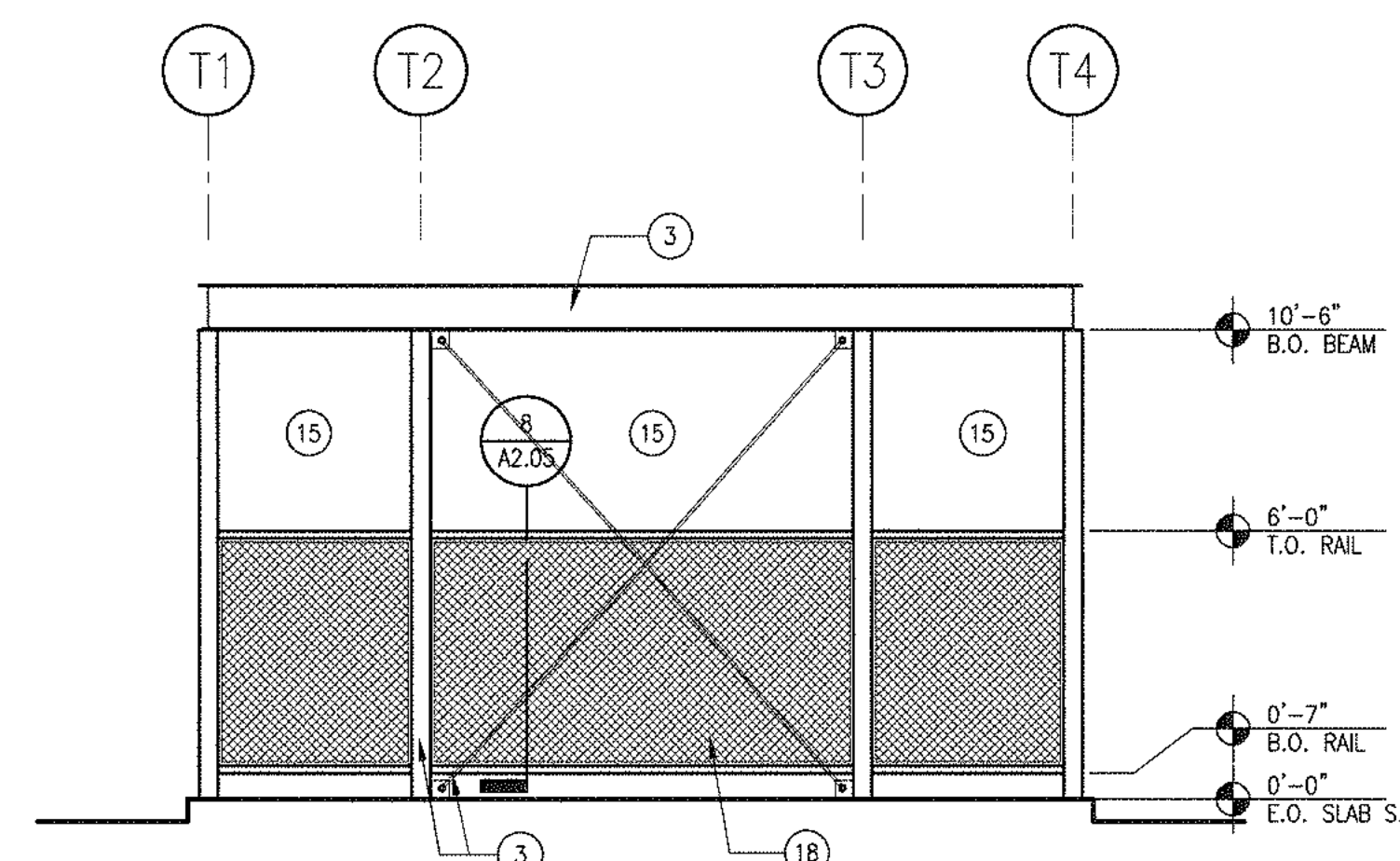


TRASH ENCLOSURE ELEVATION 5
1/4" = 1'-0"

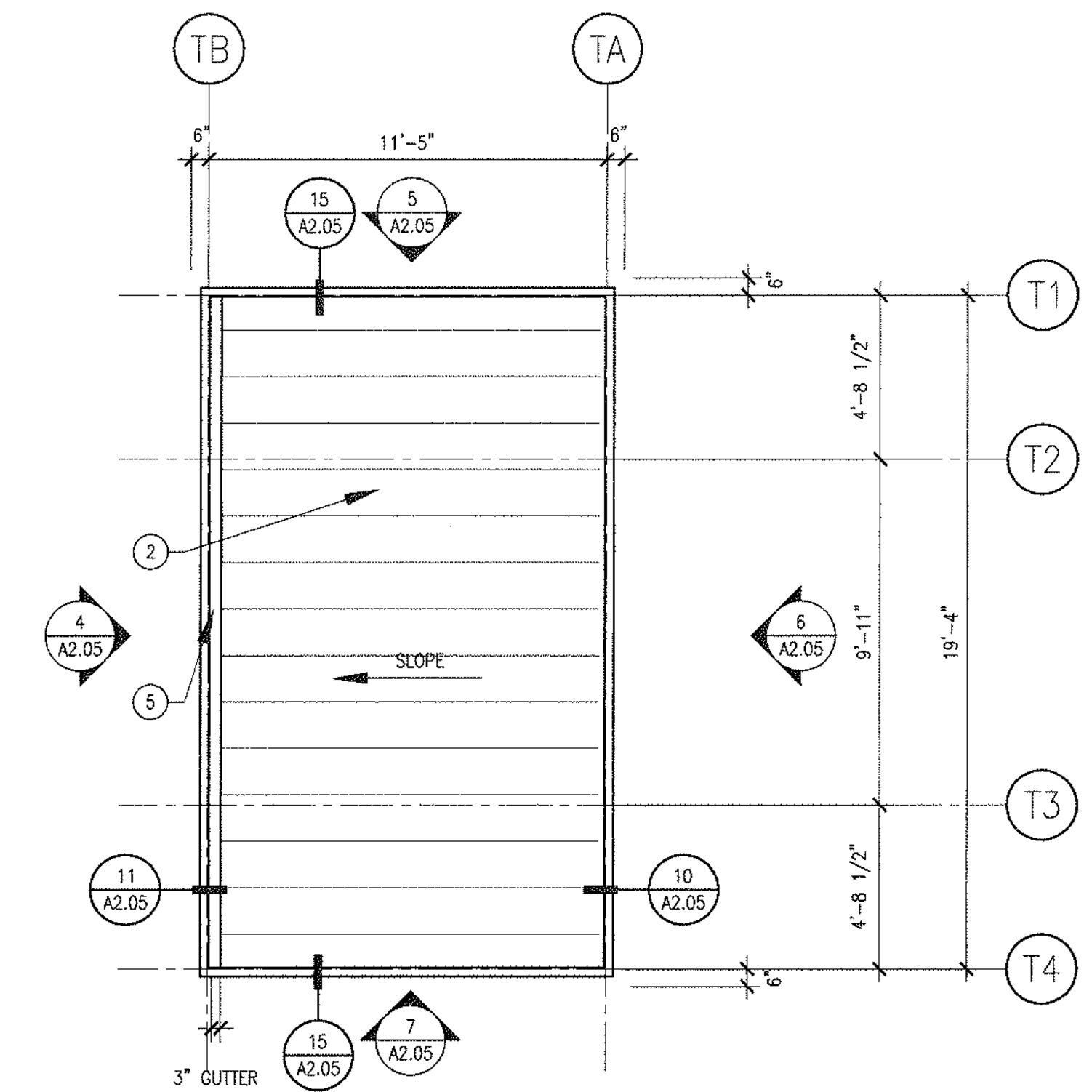


NOTE: ALL STL. TO BE GALVANIZED

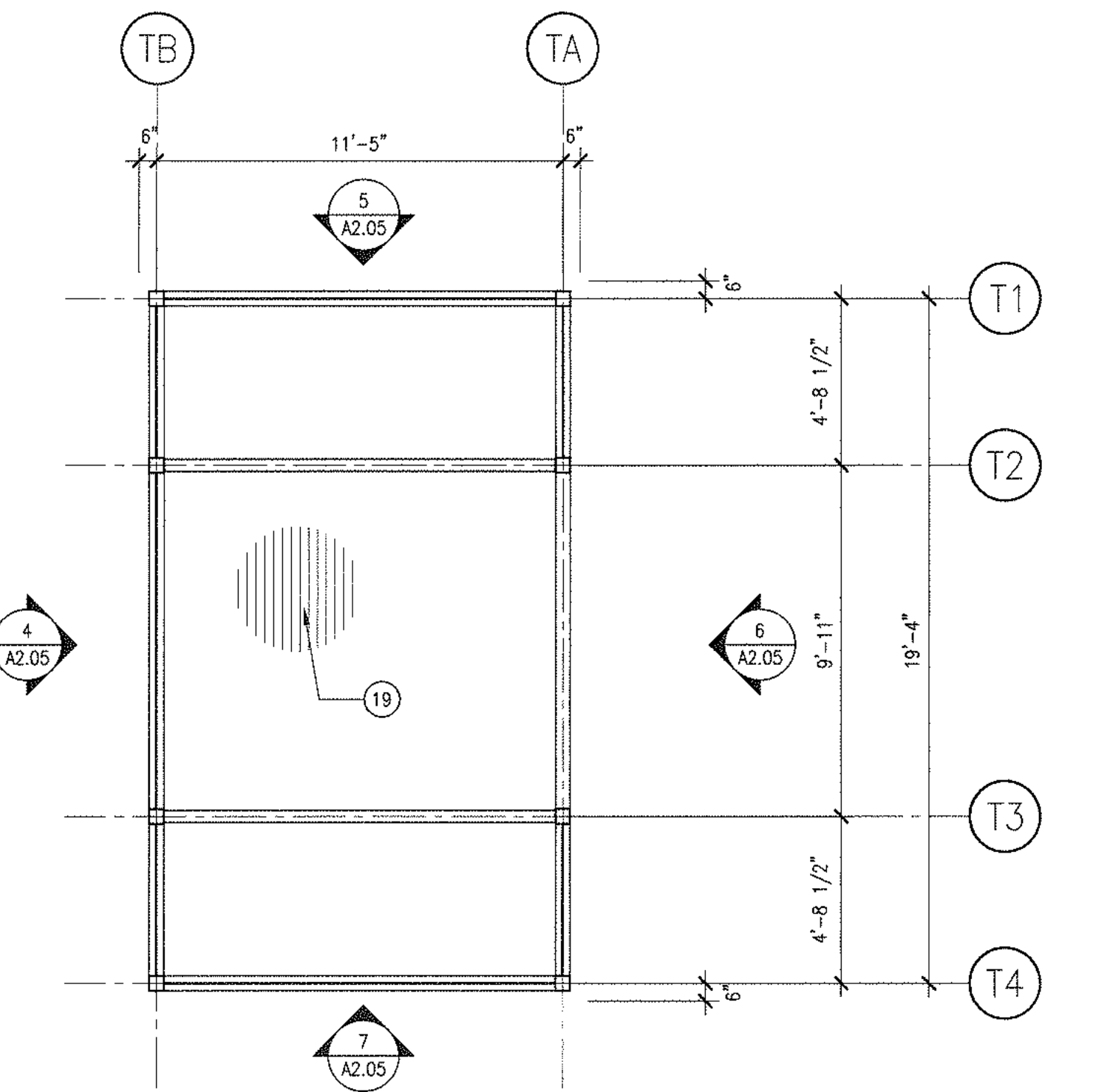
FENCE PANEL SECTION 8
1 1/2" = 1'-0"



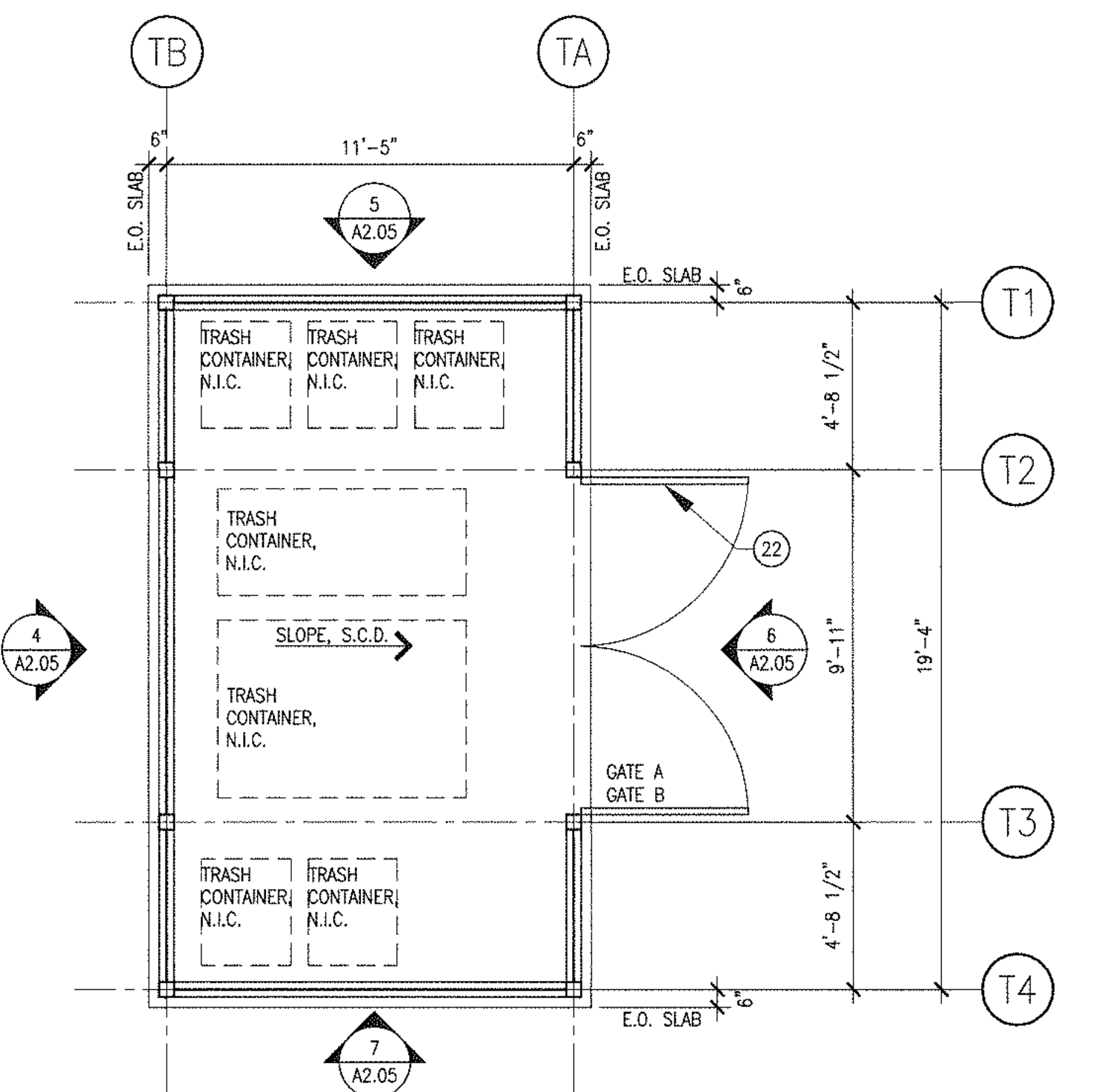
TRASH ENCLOSURE ELEVATION 4
1/4" = 1'-0"



TRASH ENCLOSURE ROOF PLAN 3
1/4" = 1'-0"



TRASH ENCLOSURE REFLECTED CEILING PLAN 2
1/4" = 1'-0"



TRASH ENCLOSURE FLOOR PLAN 1
1/4" = 1'-0"

- GENERAL NOTES
- COLORS: SEE GENERAL NOTES, EXTERIOR ELEVATIONS
 - FOR TYPICAL ROOF DETAILS, SEE AB.13.
 - FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.

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 - INTEGRAL GUTTER
 - GALV. SHIT. METAL CATCH BASIN PAINTED, COLOR: PC2
 - PAVING JOINT, S.L.D.
 - EXTERIOR CEMENT PLASTER, PAINTED, COLOR: PC3
 - RECESSED LIGHT, S.E.D.
 - VERTICAL CABLE VINE SUPPORT SYSTEM; SEE SPECIFICATION SECTION 05500
 - TRANSLUCENT SKYLIGHT
 - STAINLESS STL. LETTERS, N.I.C.
 - CONCRETE PAVING, S.L.D.
 - EXISTING COLUMN
 - OPEN
 - FLUSH MOUNTED RECEPTACLE WITH S.ST. COVER PLATE, S.E.D.
 - GALV. 1/8" PERF. STL. SHIT.; 1/2" DIAM. HOLES @ 1 1/2" O.C. STAGGERED CENTERS, PAINTED, COLOR: PC2
 - CHAIN LINK FENCE - PLASTIC COATED W/ WD. SLATS
 - PAINTED GALV. STL. DECK, S.S.D.; COLOR: PC2
 - CAST IN PLACE CONDUIT, S.E.D.
 - CONCRETE FOOTING, S.S.D.
 - GALV. STL. GATE WITH HWY. GAGE CONTINUOUS STL. HINGE, CANE BOLT AND HASP, PAINTED, COLOR: PC2
 - 1/2" GALV. STL. ROD DIAGONAL BRACING, PAINTED; COLOR: PC2
 - PREFINISHED INTEGRAL SHIT. MTL. FASCIA / PANEL; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - EXPANSION JOINT; SEE 17/AB.14
 - CEM. PLASTER OVER 2 LAYERS BLDG. PAPER OVER GYP. SHEATHING OVER SUSPENDED 3 5/8" C.F. MTL. FRAMING

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Associates
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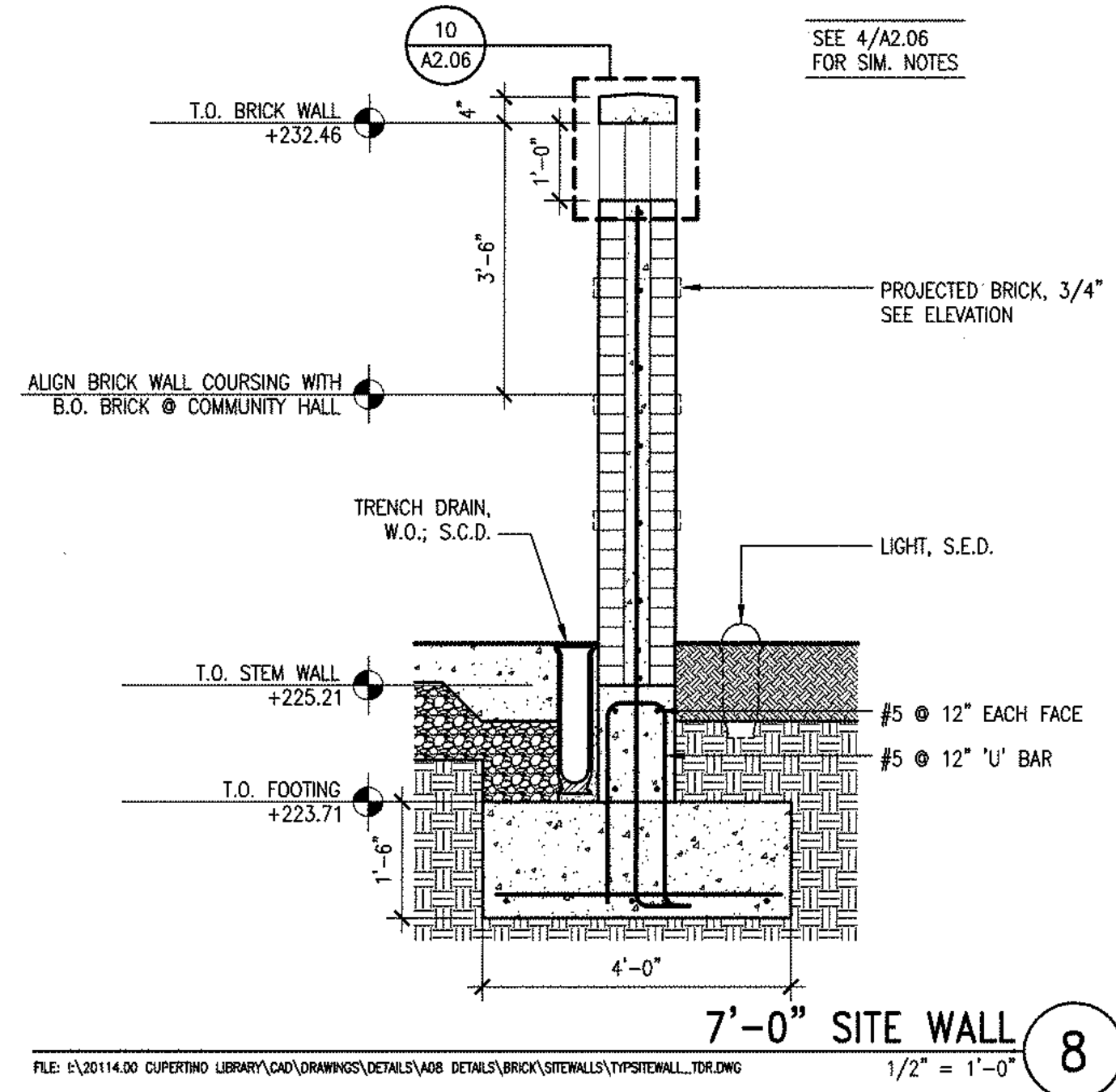
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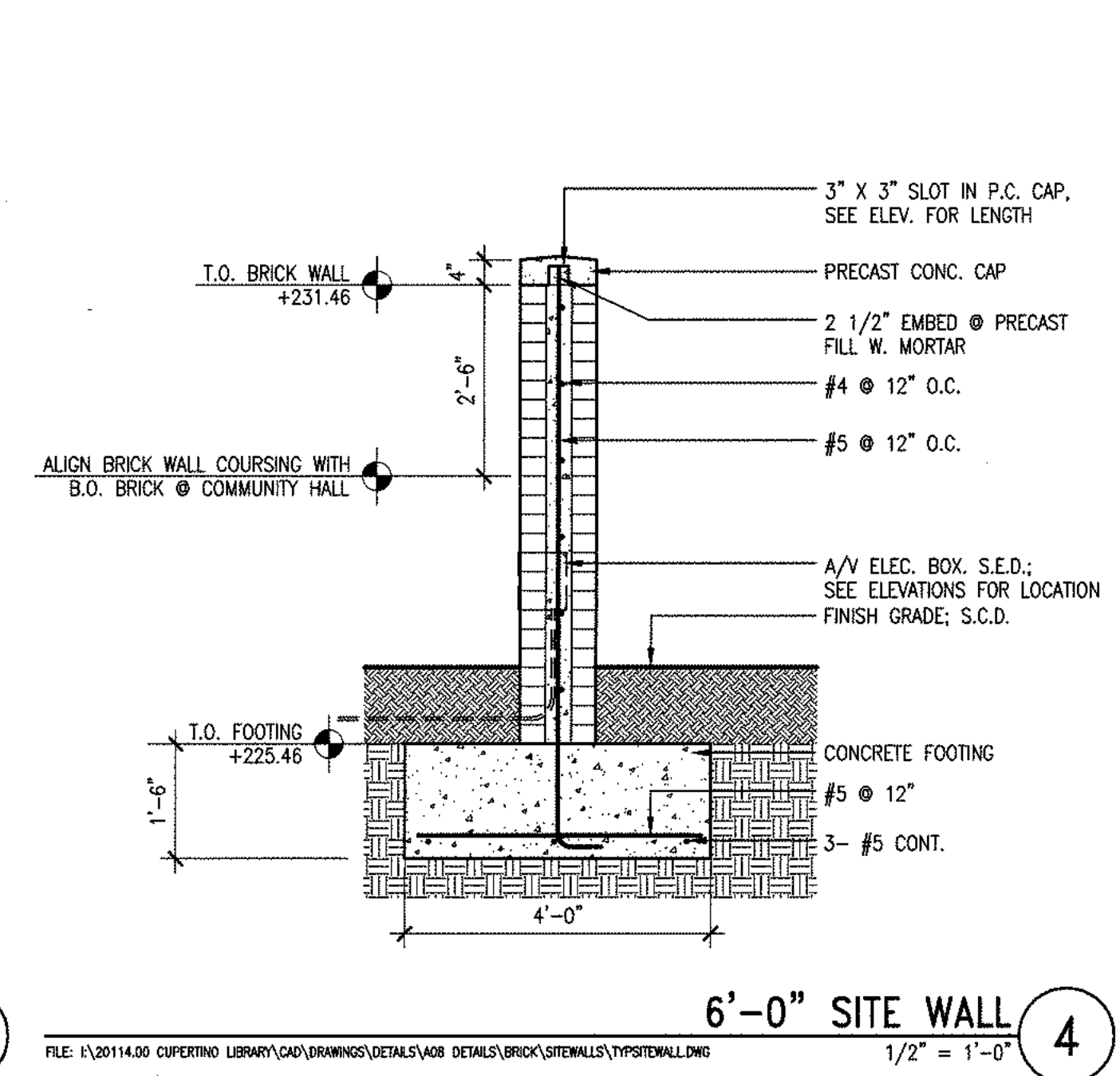
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project number
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sheet number

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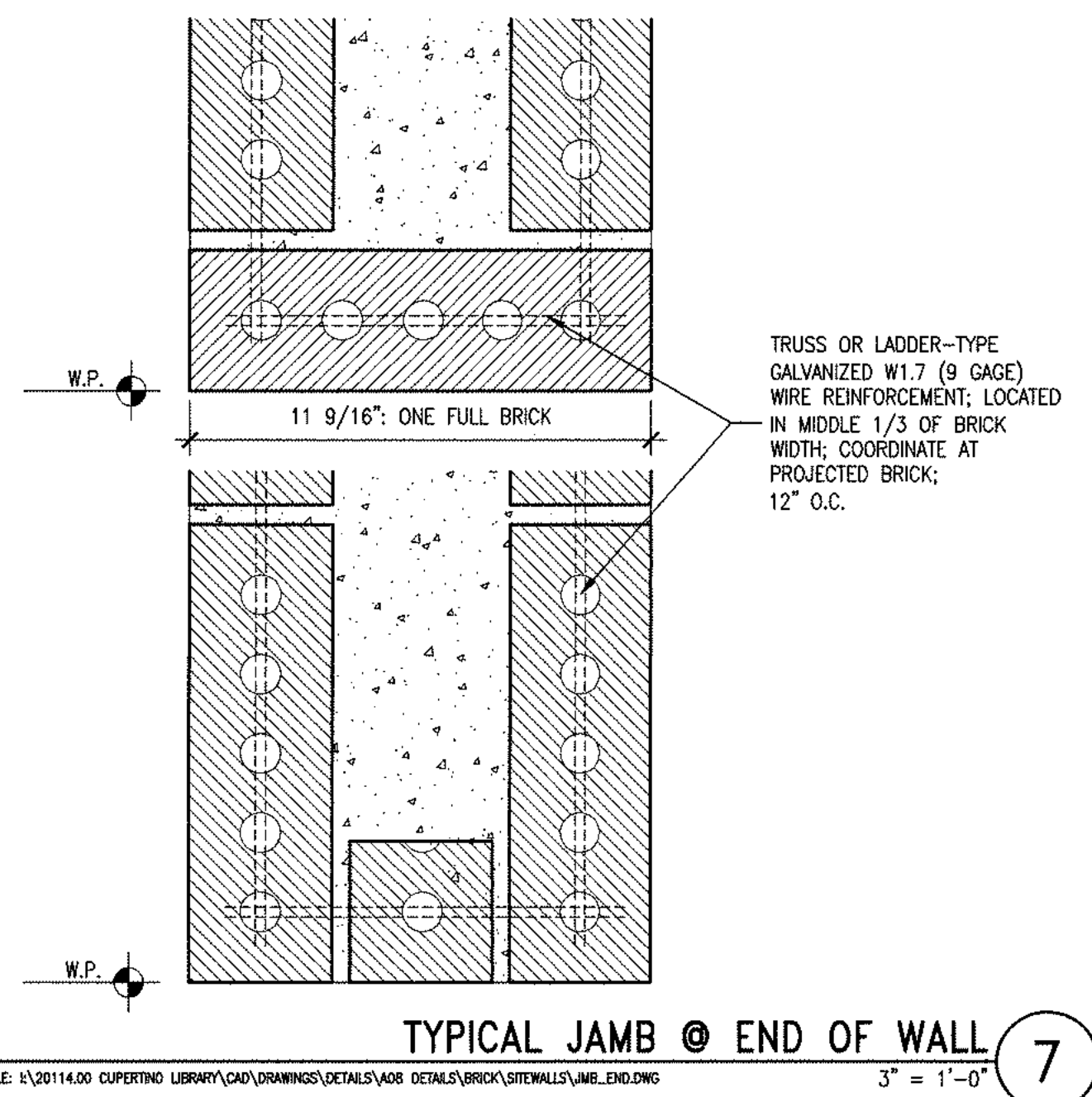
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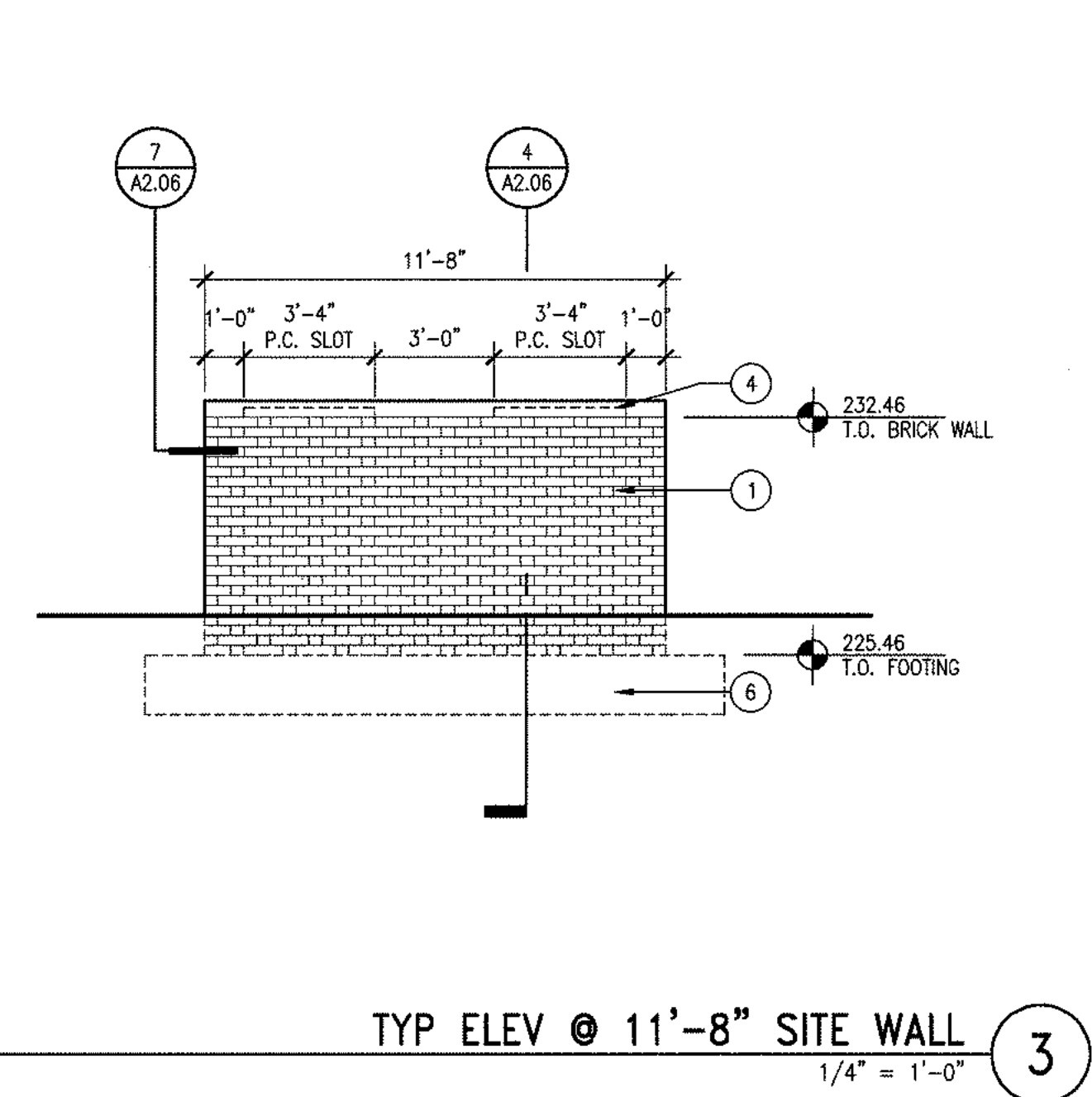
7'-0" SITE WALL 8



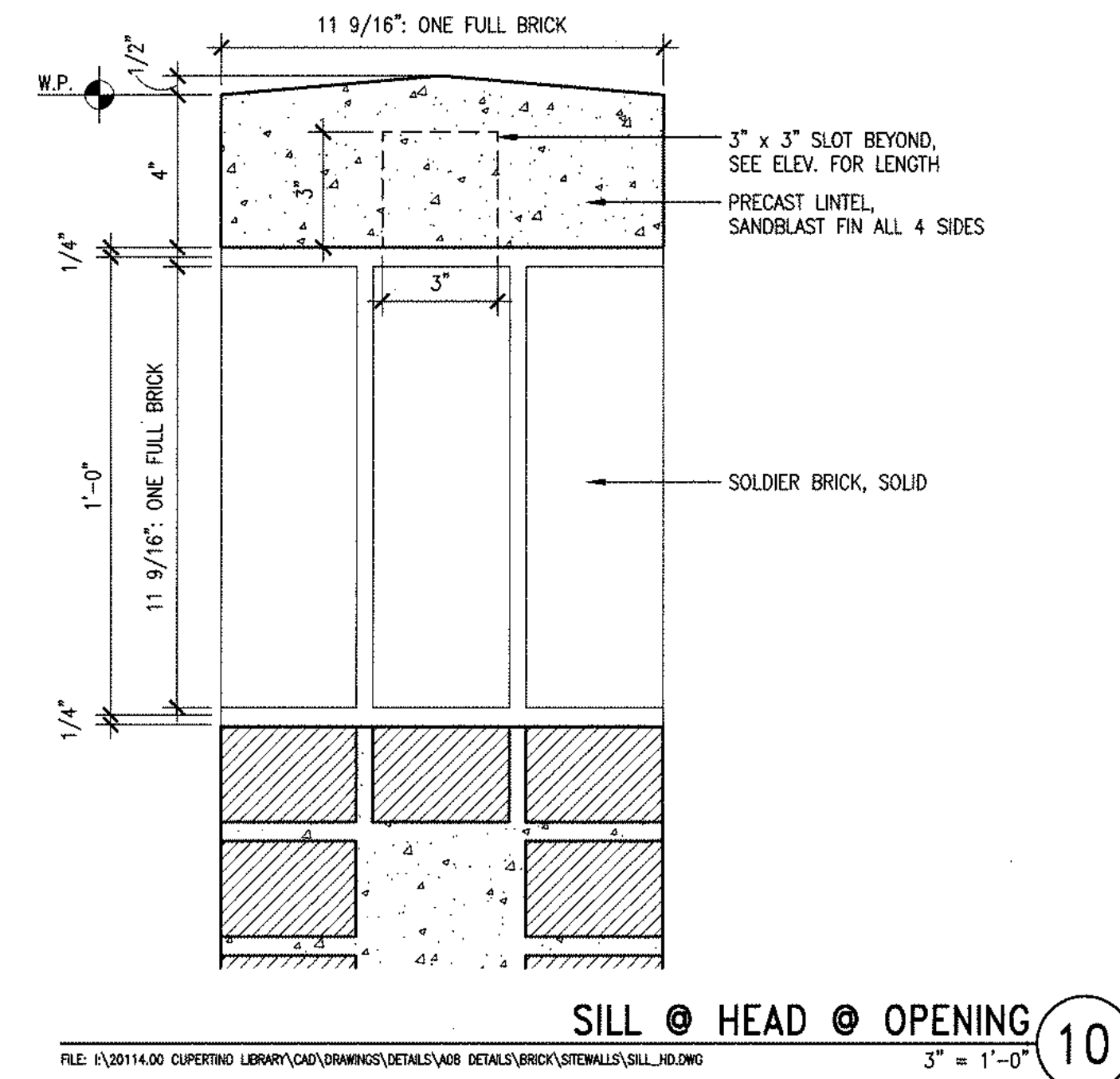
6'-0" SITE WALL 4



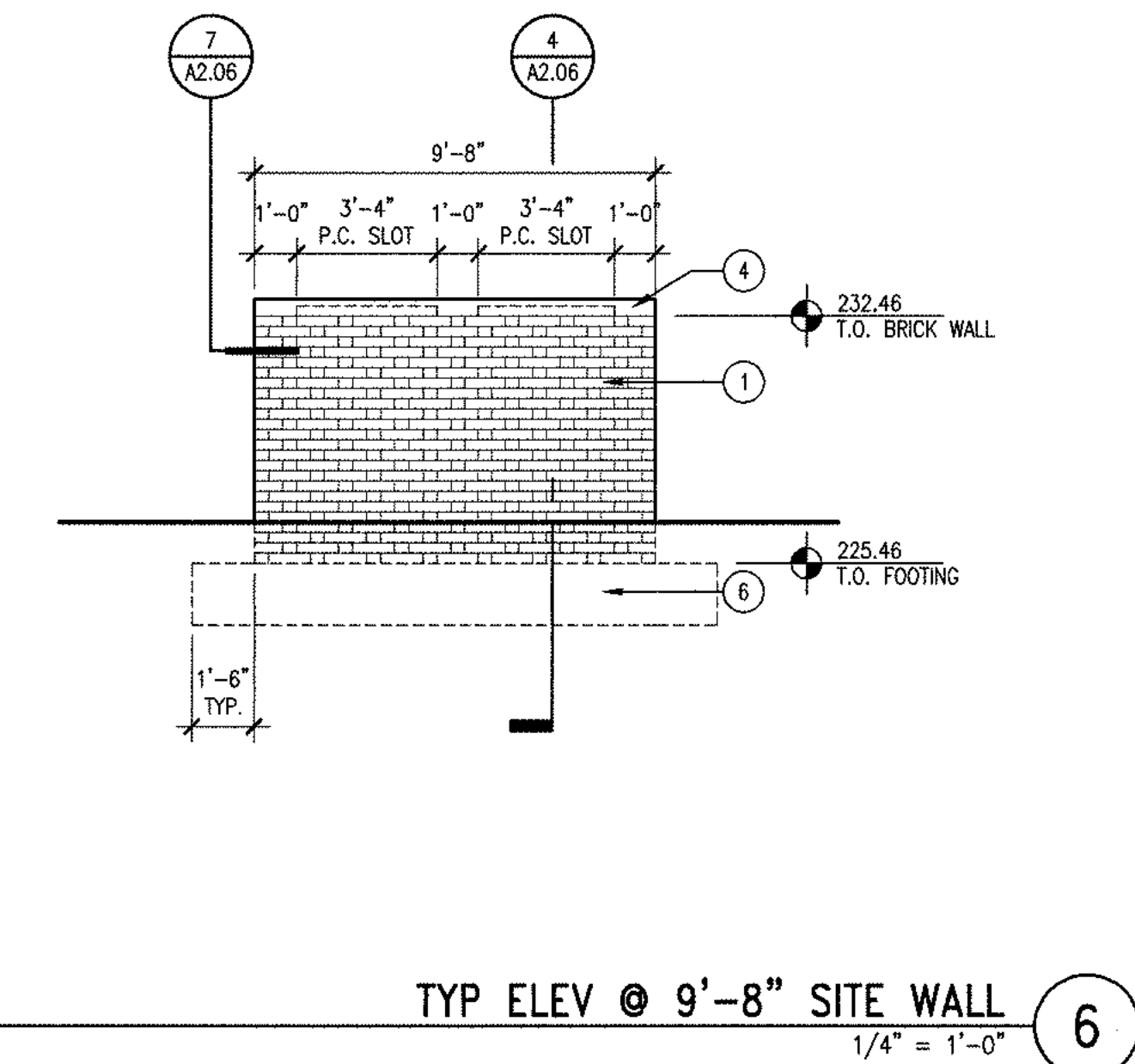
TYPICAL JAMB @ END OF WALL 7



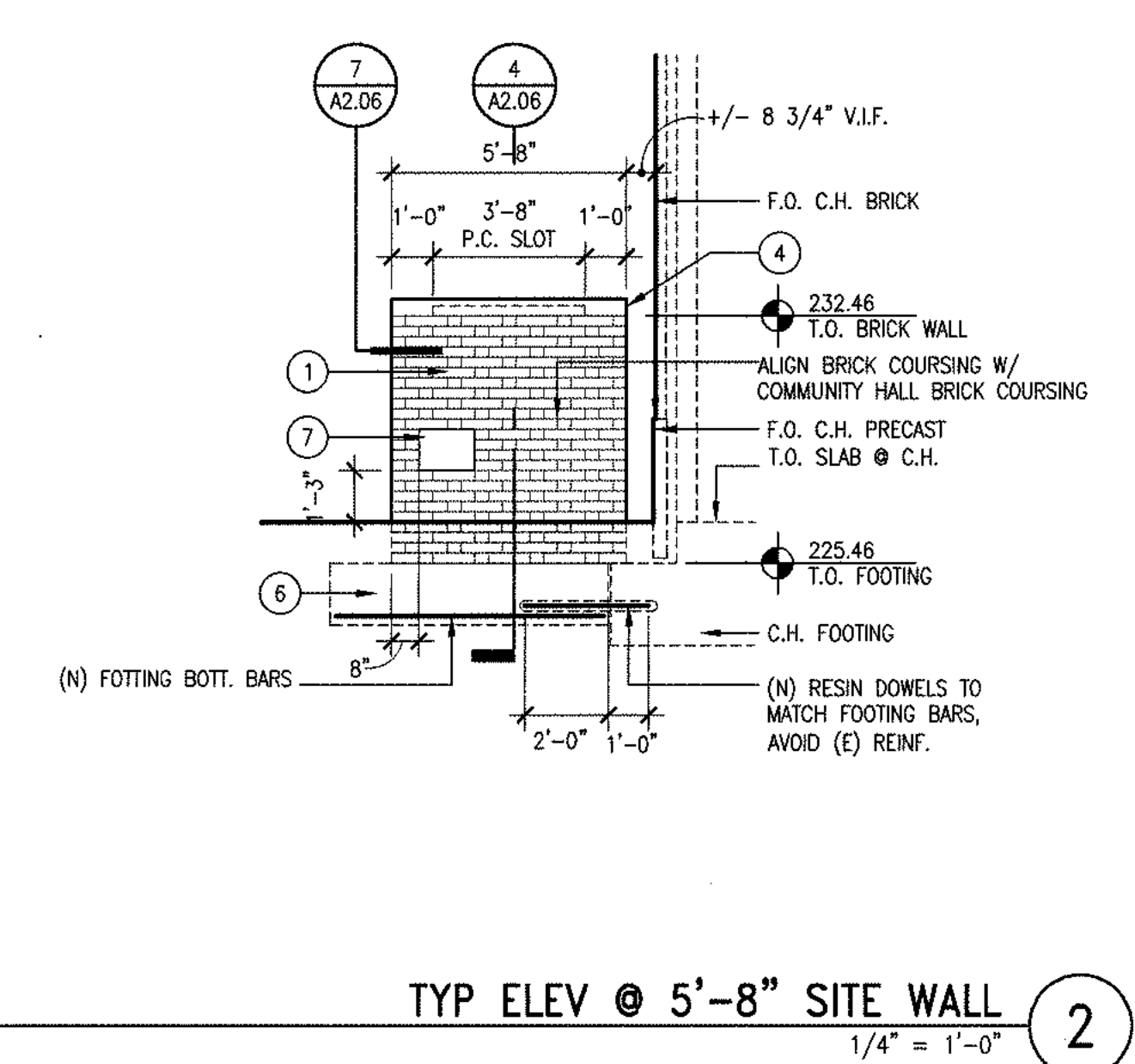
TYP ELEV @ 11'-8" SITE WALL 3



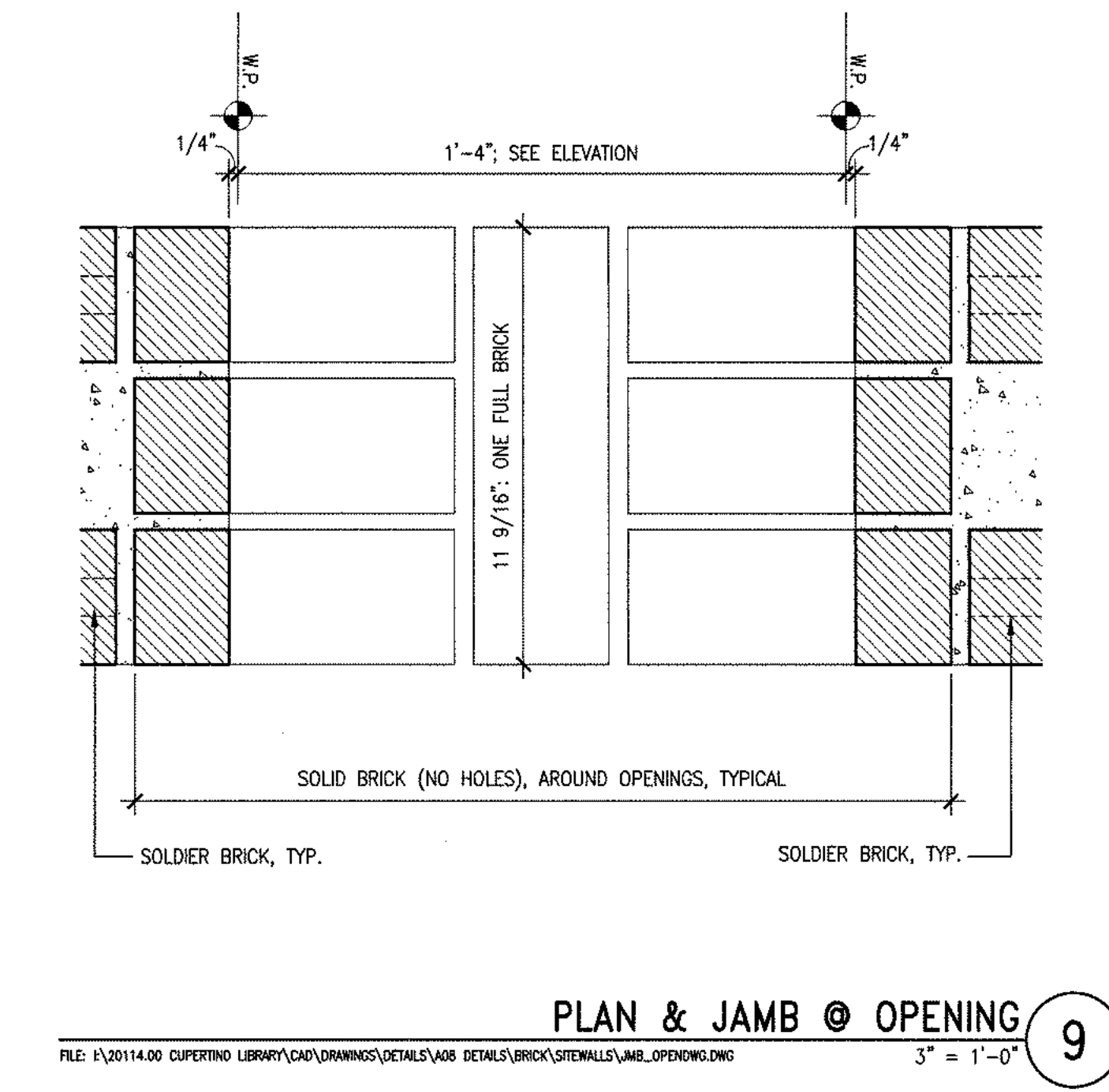
SILL @ HEAD @ OPENING 10



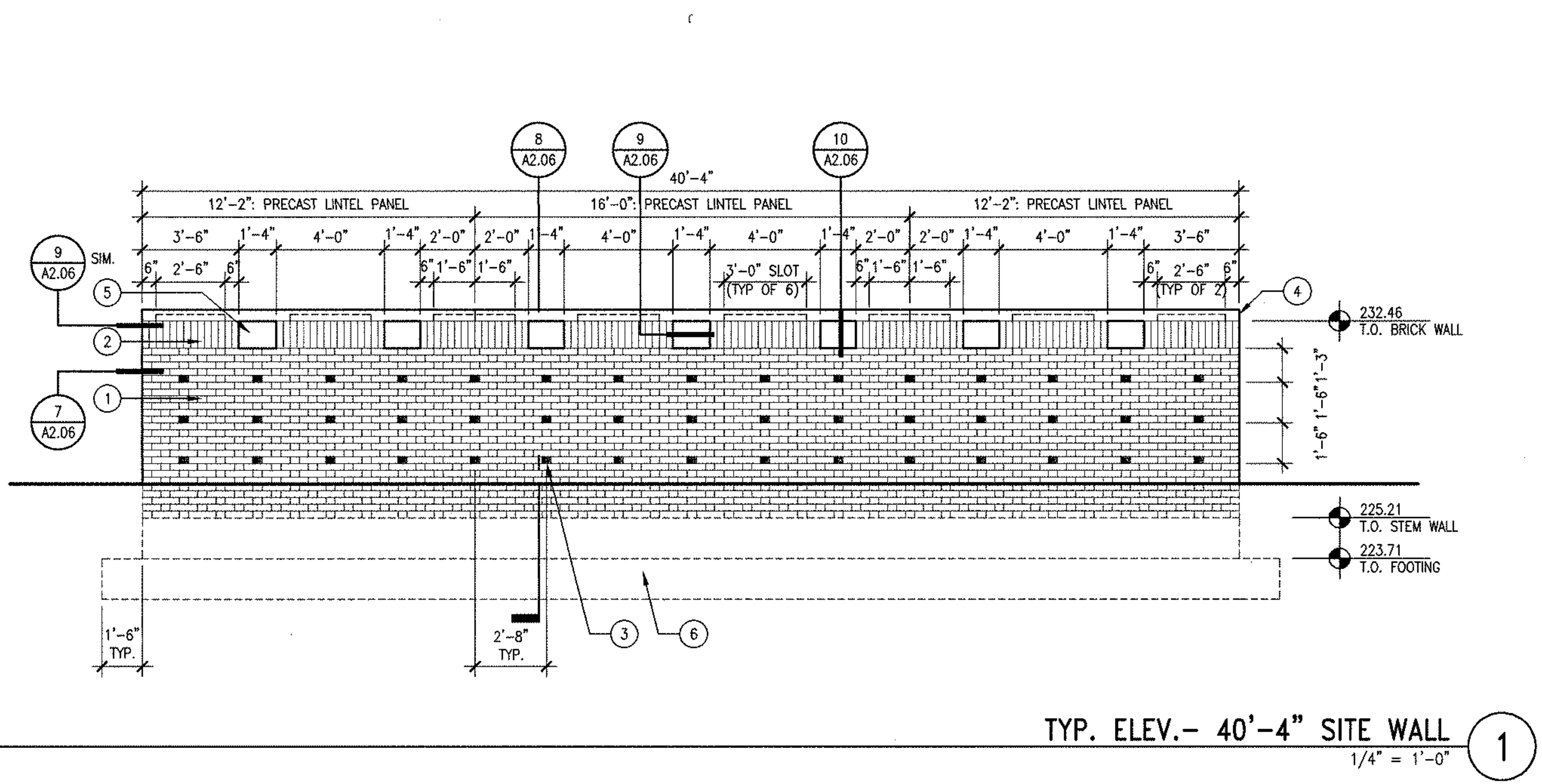
TYP ELEV @ 9'-8" SITE WALL 6



TYP ELEV @ 5'-8" SITE WALL 2



PLAN & JAMB @ OPENING 9



TYP. ELEV.- 40'-4" SITE WALL 1

- GENERAL NOTES**
- FOR BRICK PATTERN GUIDELINES, SEE DETAILS 1-4/ A8.10
 - FOR TYPICAL MORTAR JOINT DETAIL, SEE 5/ A8.10
 - ALL BRICK TO MATCH COMMUNITY HALL BRICK COLOR.
 - BRICK $f_m = 1500$ psi
MORTAR MIN COMPRESSIVE STRENGTH = 1800 psi.
- KEYNOTES**
- NORMAN BRICK, FLEMISH BOND
 - NORMAN BRICK, SOLDIER BOND
 - BRICK, PROJECTED
 - PRECAST CONC. LINTEL INTEGRAL COLOR, SANDBLAST FIN
 - OPENING
 - CONCRETE FOOTING/ STEM WALL
 - 12" X 16" A/V ELEC. BOX, S. STL.; S.E.D.

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SITE WALLS

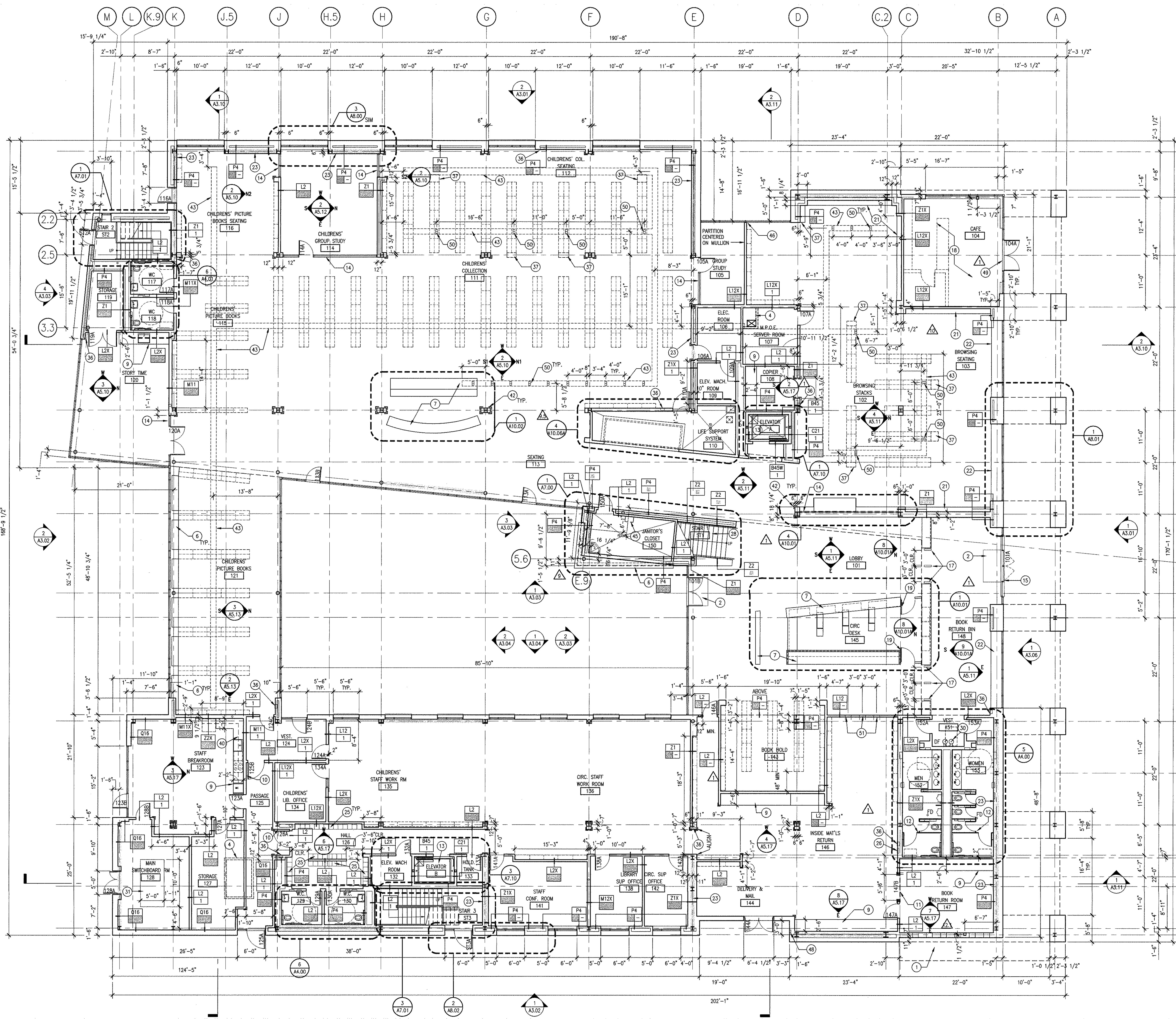
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date 2003.04.18

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A2.06



- GENERAL NOTES**
- SEE FINISH PLANS A10.10, A10.11 & A10.12 FOR FLOOR FINISHES
 - SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR WALL FINISHES
 - ALL DASHED ITEMS ARE N.I.C., U.O.N.
 - SEE DRAWING A9.01 FOR PARTITION SCHEDULE.
 - BOOKSTACKS ARE N.I.C., AND ARE SHOWN FOR LOCATION & POWER/DATA/LIGHTING COORDINATION & BACKING PLATE INSTALLATION
 - SEE DRAWING A8.10 & A8.11 FOR RATED DUCT ENCLOSURES
 - PARTITION TYPES SHOWN AT PERIMETER BUILDING WALLS ARE FOR INTERIOR WALL FURRING. ALL EXTERIOR WALL ASSEMBLIES TO HAVE R-19 INSULATION U.O.N.; SEE WALL SECTION DRAWINGS, A.01 SERIES
 - FOR CMU MASONRY OPENINGS, S.S.D.
 - UNDERFLOOR DUCT SYSTEM (FOR POWER & TELECOM). DIMENSIONS SHOWN ARE TO LOCATE THE CENTERLINE OF THE "224" DUCT SYSTEM, THE ENDS OF THE DUCT SYSTEM, OR THE CENTERLINE OF THE ACTIVATED PRESETS.

- KEYNOTES**
- CANOPY
 - RECESSED ENTRY MAT
 - FIXED ACCESS LADDER
 - 1-HR. MECH. SHAFT
 - MECH. LOUVERS; SEE EXT. ELEVATIONS; S.M.D.
 - BUILT-IN BENCH
 - CUSTOM CASEWORK
 - P. LAM. COUNTER
 - P. LAM. COUNTER W/ BASE CABINETS
 - MAGNETIC HOLD OPEN DOORS
 - OVERHEAD FIRE RATED COILING DOOR
 - TOILET PARTITIONS
 - HYDRAULIC ELEVATOR
 - INTERIOR GLAZING, SEE INTERIOR ELEVATIONS
 - AUTOMATIC SLIDING DOORS W/EMERGENCY BREAKOUT
 - LINE OF CLERESTORY ABOVE
 - BOOK THEFT PROTECTION SYSTEM
 - FUTURE TENANT IMPROVEMENT; N.I.C.
 - GATE, PART OF CUSTOM CASEWORK
 - P. LAM. SHELVES
 - 60" HIGH DISPLAY CASEWORK
 - 30" HIGH DISPLAY CASEWORK
 - PARTITION FRAMING DISCONTINUOUS AT BRACED FRAME
 - TACKABLE WALL PANEL
 - DOUBLE TIER LOCKERS
 - RECESSED FIRE ALARM ANNUNCIATOR PANEL, S.E.D.
 - PUBLIC TELEPHONES, N.I.C.
 - STONE TREADS, GLASS RAIL
 - FABRIC WRAPPED PANELS
 - DRINKING FOUNTAINS
 - 4" HIGH CONC. PAD, COORDINATE SIZE W/EQUIPMENT
 - CURTAIN
 - FURNITURE, N.I.C.
 - PARTIAL HEIGHT PARTITION, SEE INT. ELEV.
 - LINE OF ROOF OVERHANG
 - RECESSED FIRE EXTINGUISHER CABINET
 - COMPUTER SHELF & DISPLAY, N.I.C.
 - ACCESS FLOORING W/NO CURB AT PLATFORM PERIMETER
 - FLOOR REGISTER, S.M.D.
 - ABOVE COUNTER P. LAM. CABINETS
 - AV EQUIP. NICHE ABOVE - SEE INT. ELEV.
 - 4" LONG STAINLESS STL. CORNERGUARD, SEE 4/A10.06 & SPECS
 - UNDERFLOOR DUCT SYSTEM, S.E.D.
 - SEATING CHART
 - 1-HR MECH. SHAFT/DUCT ENCLOSURE ABOVE
 - ALUMINUM PARTITION CLOSURE
 - ACCESSIBLE SEATING AREA
 - RECESSED KNOB BOX, SEE DOOR SCHEDULE, GENERAL NOTE #10
 - LOCKED EXIT DOOR SIGN; SEE SPEC. SECTION 10440
 - ACTIVATED PRESET FITTING OF UNDERFLOOR DUCT SYSTEM, S.E.D.
 - LIBRARY BOOK DEPOSITORY UNIT
 - PROVIDE BACKING PLATES IN WALL FOR LCD MONITOR (N.I.C.); COORDINATE LOCATION W/OWNER

FIRST FLOOR PLAN
1/8" = 1'-0"

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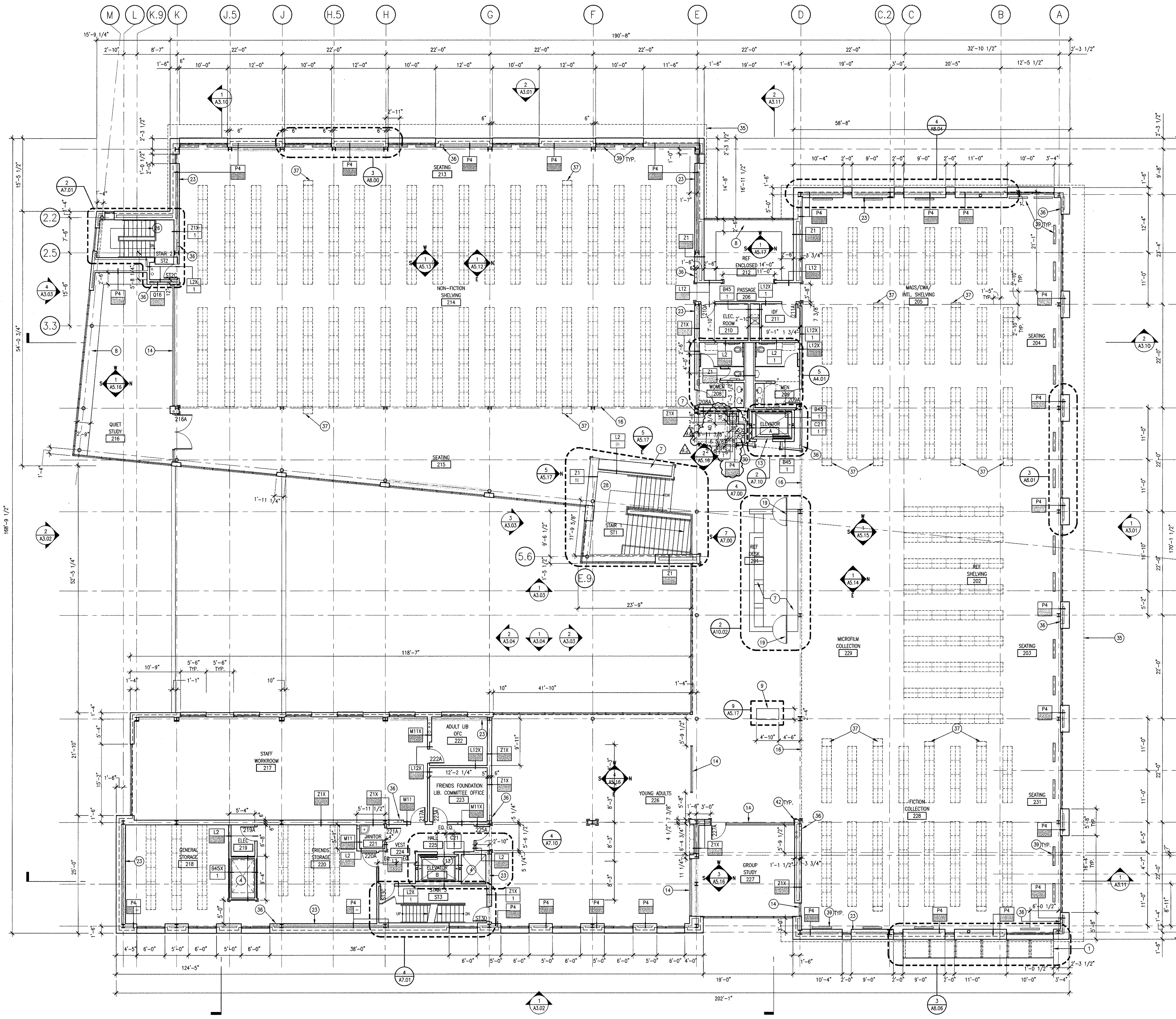
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FIRST FLOOR
PLAN

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drawn by LB/GN project number 20114.00
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 - SEE DRAWING A6.10 & A6.11 FOR RATED DUCT ENCLOSURES
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 - FOR CMU MASONRY OPENINGS, S.S.D.
 - UNDERFLOOR DUCT SYSTEM (FOR POWER & TELECOM): DIMENSIONS SHOWN ARE TO LOCATE THE CENTERLINE OF THE "224" DUCT SYSTEM; THE ENDS OF THE DUCT SYSTEM; OR THE CENTERLINE OF THE ACTIVATED PRESETS.

- KEYNOTES**
- CANOPY
 - RECESSED ENTRY MAT
 - FIXED ACCESS LADDER
 - 1-HR. MECH. SHAFT
 - MECH. LOUVERS; SEE EXT. ELEVATIONS; S.M.D.
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 - CUSTOM CASEWORK
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 - HYDRAULIC ELEVATOR
 - INTERIOR GLAZING, SEE INTERIOR ELEVATIONS
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 - DRINKING FOUNTAINS
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 - CURTAIN
 - FURNITURE, N.I.C.
 - PARTIAL HEIGHT PARTITION, SEE INT. ELEVS.
 - LINE OF ROOF OVERHANG
 - RECESSED FIRE EXTINGUISHER CABINET
 - COMPUTER SHELF & DISPLAY, N.I.C.
 - ACCESS FLOORING W/WD CURB AT PLATFORM PERIMETER
 - FLOOR REGISTER, S.M.D.
 - ABOVE COUNTER P. LAM. CABINETS
 - AV EQUIP. NICHE ABOVE- SEE INT. ELEV.
 - 4' LONG STAINLESS STL. CORNERGUARD, SEE A/410.06 & SPECS
 - UNDERFLOOR DUCT SYSTEM, S.E.D.
 - SEATING CHART
 - 1-HR. MECH. SHAFT/DUCT ENCLOSURE ABOVE
 - ALUMINUM PARTITION CLOSURE
 - ACCESSIBLE SEATING AREA
 - RECESSED KNOX BOX, SEE DOOR SCHEDULE, GENERAL NOTE #10.
 - LOCKED EXIT DOOR SIGN, SEE SPEC. SECTION 10440
 - ACTIVATED PRESET FITTING OF UNDERFLOOR DUCT SYSTEM; S.E.D.
 - LIBRARY BOOK DEPOSITORY UNIT
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SECOND FLOOR PLAN
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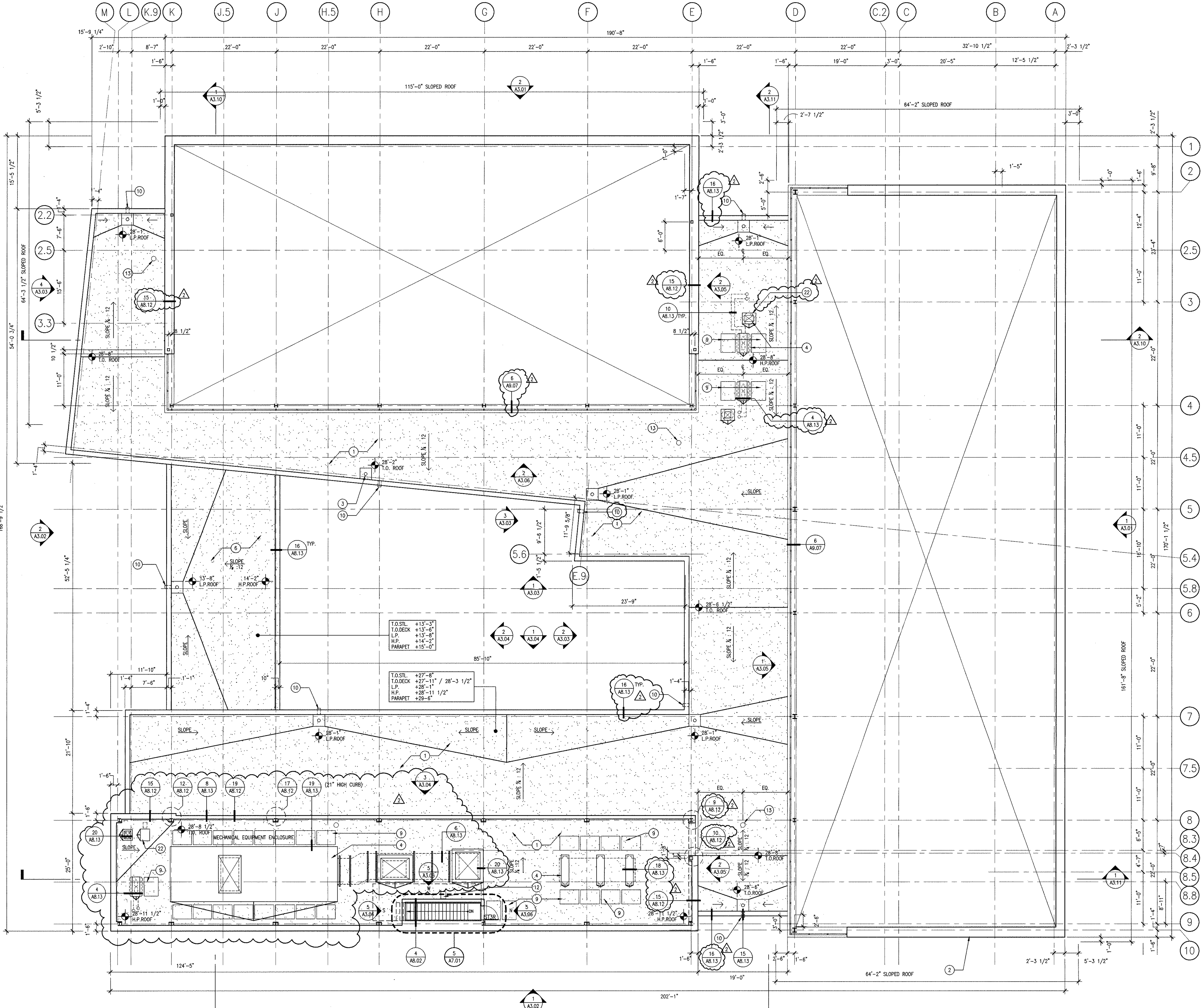
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- GENERAL NOTES**
- FOR FLASHING SPlice JOINT LOCATIONS, SEE EXTERIOR ELEVATIONS. FOR DETAIL, SEE 5/AB.13
 - FOR TYPICAL ROOF DETAILS, SEE AB.13
 - FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14

- KEYNOTES**
- MEMBRANE ROOFING W/MINERAL CAP SHEET
 - MFR. STANDING SEAM ROOF
 - ROOF DRAIN, S.P.D.
 - MECHANICAL EQUIPMENT, S.M.D.
 - INTEGRAL GUTTER W/ EXPOSED RWL
 - MEMBRANE ROOFING W/ GRAVEL SURFACING
 - RWL, SEE 18/AB.14
 - EXPANSION JOINT, SEE 17/AB.14
 - WALK PAD, 36"x48"
 - PAINTED GSM SCUPPER, 6"x6" (21.2 S.I. MIN.) SEE 14/AB.13
 - MECHANICAL EQUIPMENT W/ SPRING CURB, SEE 19/AB.13
 - SPLASHBLOCK
 - PLUMBING VENT, S.M.D.
 - 30" x 36" ROOF HATCH W/ACCESS LADDER, SEE 2/AB.13
 - GUTTER EXPANSION JOINT, SEE 17/AB.14
 - PAINTED GSM SCUPPER, 6"x8" (37.7 S.I. MIN.) SEE 13/AB.13
 - DUCT SUPPORT, SEE 6/AB.13
 - PRE-FINISHED SOFFIT PANEL
 - SOFFIT VENT, PRE-FINISHED PERFORATED SOFFIT PANEL
 - PRE-FINISHED INTEGRAL SHT. MTL. SOFFIT FLASHING; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOFING
 - SPlice JOINT, SEE 5/AB.13
 - FAN W/PRE-FABRICATED ROOF CURB
 - WALL-MOUNTED DUCT SUPPORT BRACKET, SEE 6/AB.13 SIM

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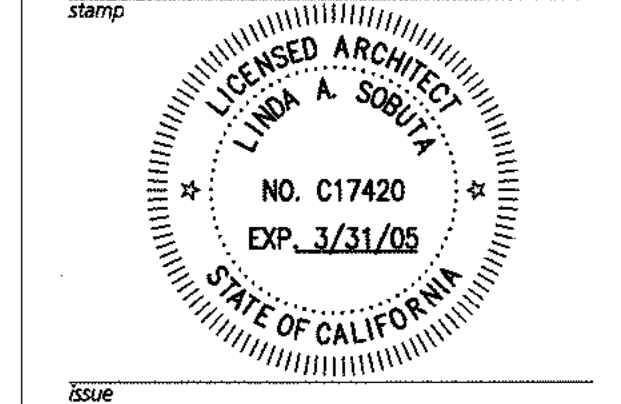
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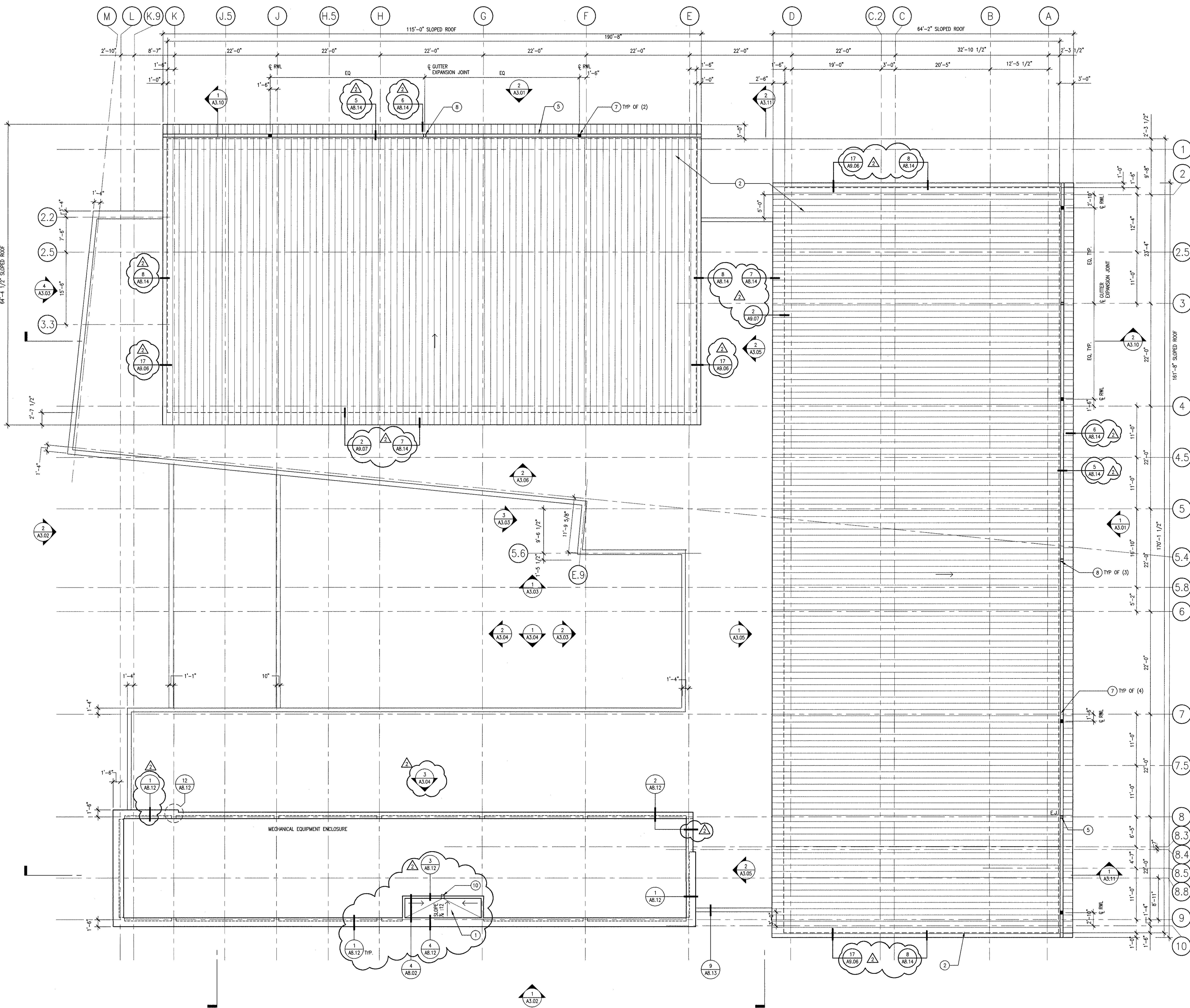
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CLERESTORY
AND ROOF
PLAN

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Sheet number:

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CLERESTORY & ROOF PLAN
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- GENERAL NOTES**
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 - FOR TYPICAL ROOF DETAILS, SEE A8.13.
 - FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/A8.14.

- KEYNOTES**
- MEMBRANE ROOFING W/ MINERAL CAP SHEET
 - MFR. STANDING SEAM ROOF
 - ROOF DRAIN, S.P.D.
 - MECHANICAL EQUIPMENT, S.M.D.
 - INTEGRAL GUTTER W/ EXPOSED RWL
 - MEMBRANE ROOFING W/ GRAVEL SURFACING
 - RWL, SEE 18/A8.14
 - EXPANSION JOINT, SEE 17/A8.14
 - WALK PAD, 36"x48"
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 - SPLASHBLOCK
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 - 30" x 36" ROOF HATCH W/ ACCESS LADDER, SEE 2/A8.13
 - GUTTER EXPANSION JOINT, SEE 17/A8.14
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 - DUCT SUPPORT, SEE 6/A8.13
 - PRE-FINISHED SOFFIT PANEL
 - SOFFIT VENT, PRE-FINISHED PERFORATED SOFFIT PANEL
 - PRE-FINISHED INTEGRAL SHIT. MTL. SOFFIT FLASHING; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOFING
 - SPLICE JOINT, SEE 5/A8.13
 - FAN W/ PRE-FABRICATED ROOF CURB
 - WALL-MOUNTED DUCT SUPPORT BRACKET, SEE 6/A8.13 SM

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Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
550 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
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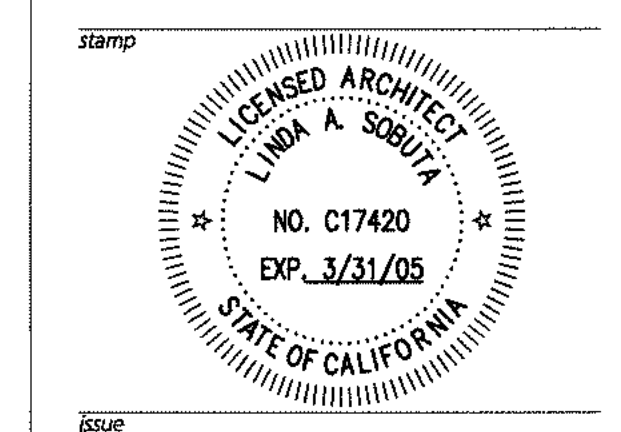
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Revisions:
2003.05.30 ADDENDUM NO. 2

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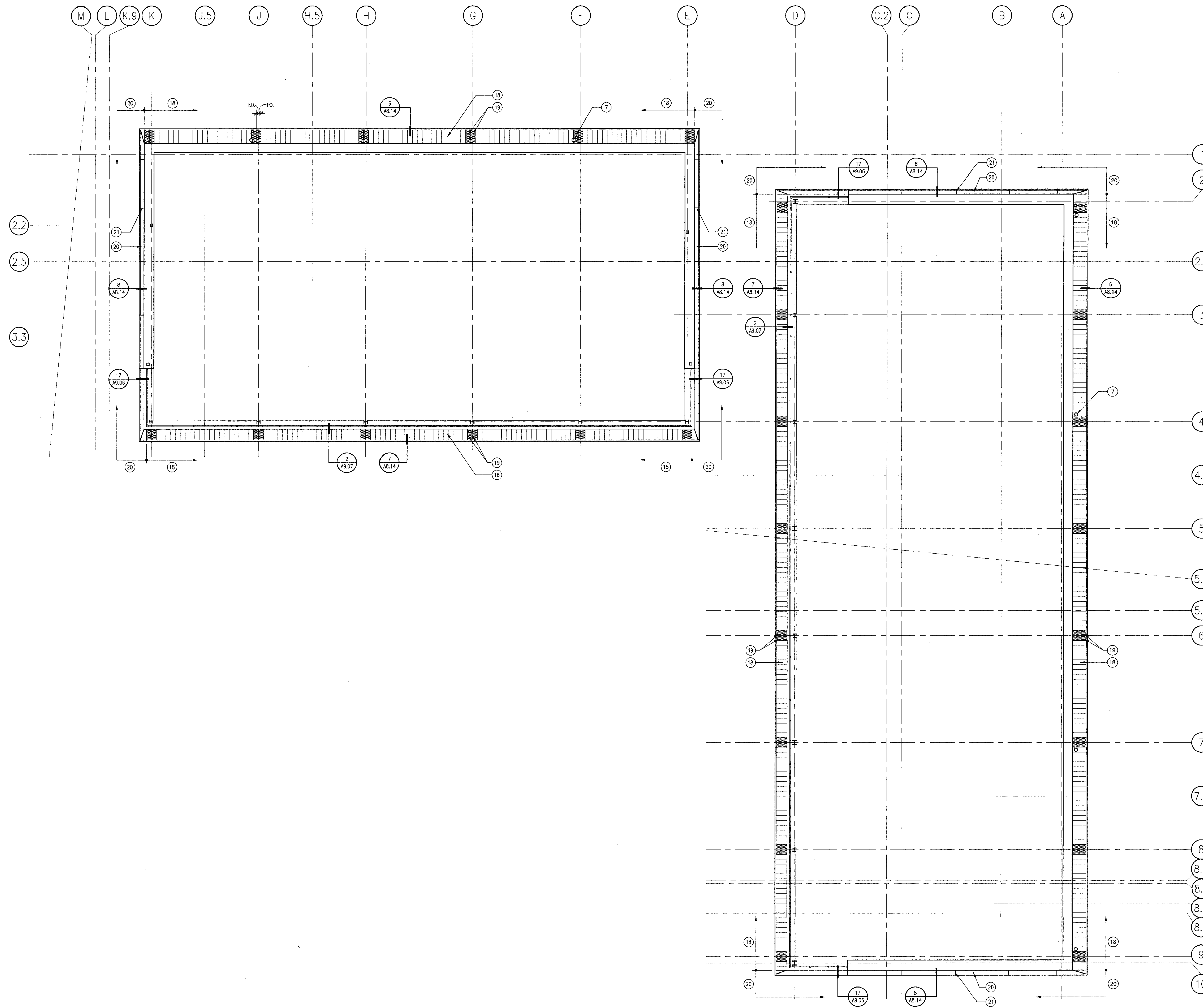
LIBRARY
HIGH ROOF
PLAN

SCALE: 1/8" = 1'-0"
DATE: 2003.04.18
DRAWN BY: LR/GN PROJECT NUMBER: 20114.00
SHEET NUMBER

A2.13

HIGH ROOF PLAN 1
1/8" = 1'-0"

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SOFFIT PLAN 1
1/8" = 1'-0"

- GENERAL NOTES
- FOR FLASHING SPlice JOINT LOCATIONS, SEE EXTERIOR ELEVATIONS. FOR DETAIL, SEE 5/AB.13.
 - FOR TYPICAL ROOF DETAILS, SEE AB.13.
 - FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.

- KEYNOTES
- MEMBRANE ROOFING W/MINERAL CAP SHEET
 - MFR. STANDING SEAM ROOF
 - ROOF DRAIN, S.P.D.
 - MECHANICAL EQUIPMENT, S.M.D.
 - INTEGRAL GUTTER W/ EXPOSED RWL
 - MEMBRANE ROOFING W/ GRAVEL SURFACING
 - FRWL, SEE 18/AB.14
 - EXPANSION JOINT, SEE 17/AB.14
 - WALK PAD, 36"x48"
 - PAINTED GSM SCUPPER, 6"x8" (21.2 S.I. MIN.) SEE 14/AB.13
 - MECHANICAL EQUIPMENT W/ SPRING CURB, SEE 19/AB.13
 - SPLASHBLOCK
 - PLUMBING VENT, S.M.D.
 - 30" x 36" ROOF HATCH W/ACCESS LADDER, SEE 2/AB.13
 - GUTTER EXPANSION JOINT, SEE 17/AB.14
 - PAINTED GSM SCUPPER, 6"x8" (37.7 S.I. MIN.) SEE 13/AB.13
 - DUCT SUPPORT, SEE 6/AB.13
 - PRE-FINISHED SOFFIT PANEL
 - SOFFIT VENT, PRE-FINISHED PERFORATED SOFFIT PANEL
 - PRE-FINISHED INTEGRAL SHT. MTL. SOFFIT FLASHING; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOFING
 - SPlice JOINT, SEE 5/AB.13
 - FAN W/PRE-FABRICATED ROOF CURB
 - WALL-MOUNTED DUCT SUPPORT BRACKET; SEE 6/AB.13 SIM.

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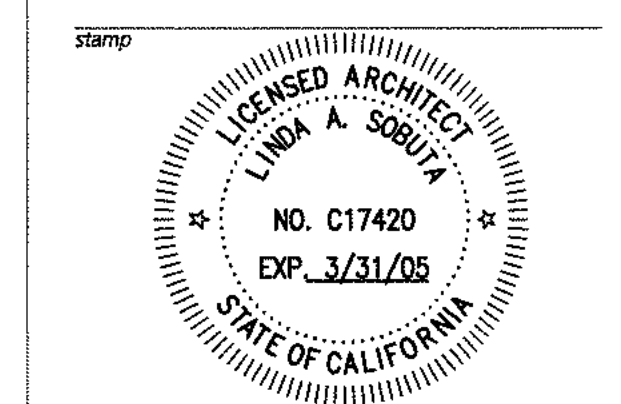
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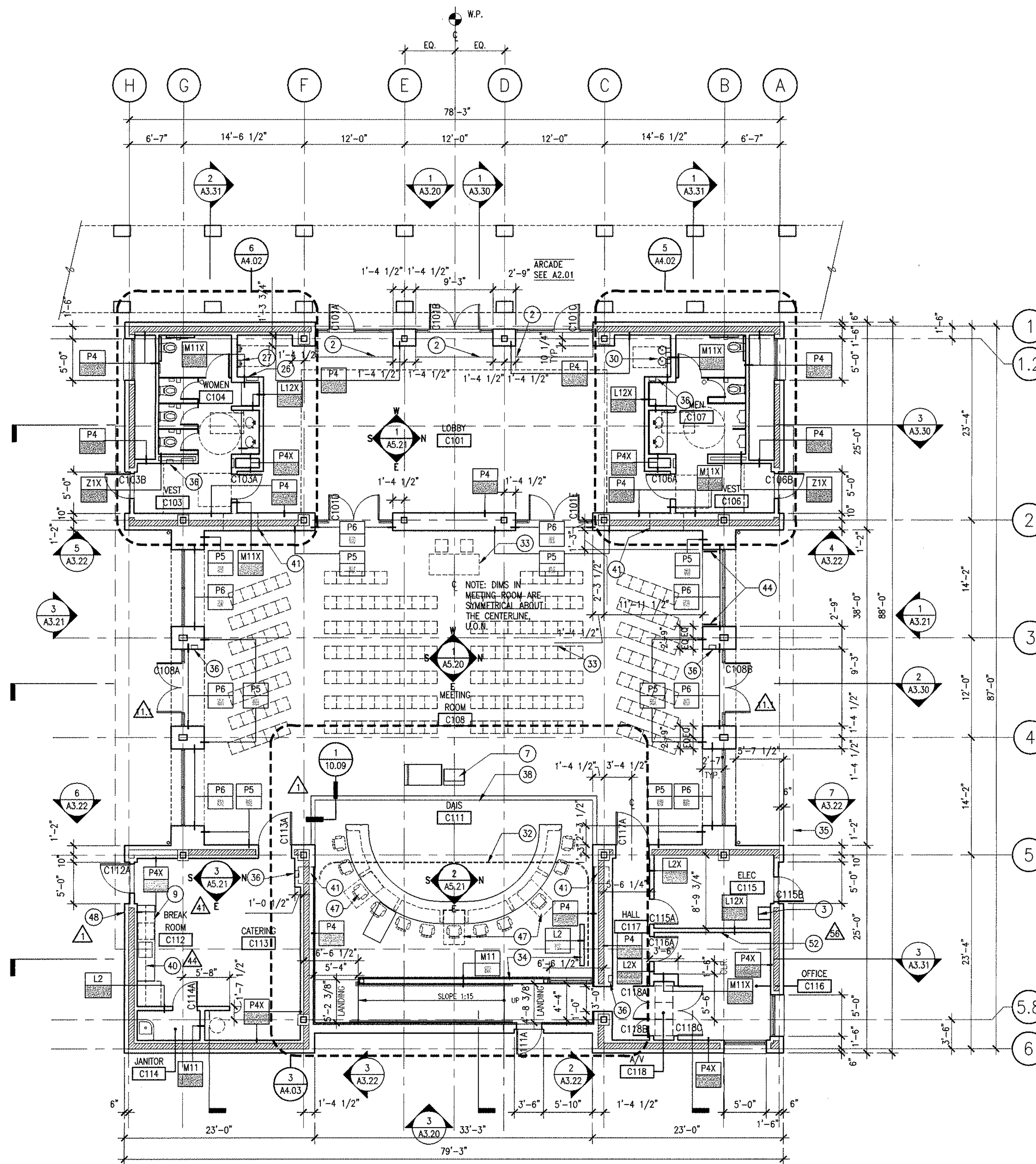
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LIBRARY SOFFIT PLAN

scale 1/8" = 1'-0" date 2003.04.18
drawn by LR project number 20114.00
sheet number

A2.14

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- GENERAL NOTES
- SEE FINISH PLANS A10.10, A10.11 & A10.12 FOR FLOOR FINISHES
 - SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR WALL FINISHES
 - ALL DASHED ITEMS ARE N.I.C., U.O.N.
 - SEE DRAWING A9.01 FOR PARTITION SCHEDULE.
 - BOOKSTACKS ARE N.I.C., AND ARE SHOWN FOR LOCATION & POWER/DATA/LIGHTING COORDINATION & BACKING PLATE INSTALLATION
 - SEE DRAWING A6.10 & A6.11 FOR RATED DUCT ENCLOSURES
 - PARTITION TYPES SHOWN AT PERIMETER BUILDING WALLS ARE FOR INTERIOR WALL FURRING. ALL EXTERIOR WALL ASSEMBLIES TO HAVE R-19 INSULATION U.O.N.; SEE WALL SECTION DRAWINGS, A8.0 SERIES.
 - FOR CMU MASONRY OPENINGS, S.S.D.
 - UNDERFLOOR DUCT SYSTEM (FOR POWER & TELECOM): DIMENSIONS SHOWN ARE TO LOCATE THE CENTERLINE OF THE "224" DUCT SYSTEM; THE ENDS OF THE DUCT SYSTEM; OR THE CENTERLINE OF THE ACTIVATED PRESETS.

- KEYNOTES
- CANOPY
 - RECESSED ENTRY MAT
 - FIXED ACCESS LADDER
 - 1-HR. MECH. SHAFT
 - MECH. LOUVERS; SEE EXT. ELEVATIONS; S.M.D.
 - BUILT-IN BENCH
 - CUSTOM CASEWORK
 - P. LAM. COUNTER
 - P. LAM. COUNTER W/ BASE CABINETS
 - MAGNETIC HOLD OPEN DOORS
 - OVERHEAD FIRE RATED COILING DOOR
 - TOILET PARTITIONS
 - HYDRAULIC ELEVATOR
 - INTERIOR GLAZING, SEE INTERIOR ELEVATIONS
 - AUTOMATIC SLIDING DOORS W/EMERGENCY BREAKOUT
 - LINE OF CLERESTORY ABOVE
 - BOOK THEFT PROTECTION SYSTEM
 - FUTURE TENANT IMPROVEMENT; N.I.C.
 - GATE, PART OF CUSTOM CASEWORK
 - P. LAM. SHELVES
 - 60" HIGH DISPLAY CASEWORK
 - 30" HIGH DISPLAY CASEWORK
 - PARTITION FRAMING DISCONTINUOUS AT BRACED FRAME
 - TACKABLE WALL PANEL
 - DOUBLE TIER LOCKERS
 - RECESSED FIRE ALARM ANNUNCIATOR PANEL, S.E.D.
 - PUBLIC TELEPHONES, N.I.C.
 - STONE TREADS, GLASS RAIL
 - FABRIC WRAPPED PANELS
 - DRINKING FOUNTAINS
 - 4" HIGH CONC. PAD, COORDINATE SIZE W/EQUIPMENT
 - CURTAIN
 - FURNITURE, N.I.C.
 - PARTIAL HEIGHT PARTITION, SEE INT. ELEV.
 - LINE OF ROOF OVERHANG
 - RECESSED FIRE EXTINGUISHER CABINET
 - COMPUTER SHELF & DISPLAY, N.I.C.
 - ACCESS FLOORING W/WD CURB AT PLATFORM PERIMETER
 - FLOOR REGISTER, S.M.D.
 - ABOVE COUNTER P. LAM. CABINETS
 - AV EQUIP. NICHE ABOVE - SEE INT. ELEV.
 - 4' LONG STAINLESS STL. CORNERGUARD, SEE 4/A10.06 & SPECS
 - UNDERFLOOR DUCT SYSTEM, S.E.D.
 - SEATING CHART
 - 1-HR MECH. SHAFT/DUCT ENCLOSURE ABOVE
 - ALUMINUM PARTITION CLOSURE
 - ACCESSIBLE SEATING AREA
 - RECESSED KNOX BOX, SEE DOOR SCHEDULE, GENERAL NOTE #10.
 - LOCKED EXIT DOOR SIGN; SEE SPEC. SECTION 10440
 - ACTIVATED PRESET FITTING OF UNDERFLOOR DUCT SYSTEM; S.E.D.
 - LIBRARY BOOK DEPOSITORY UNIT
 - PROVIDE BACKING PLATES IN WALL FOR LCD MONITOR (N.I.C.), COORDINATE LOCATION W/OWNER

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revisions

2003.05.07	ADDENDUM NO. 1
2003.12.19	CCD NO. 9.1

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NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

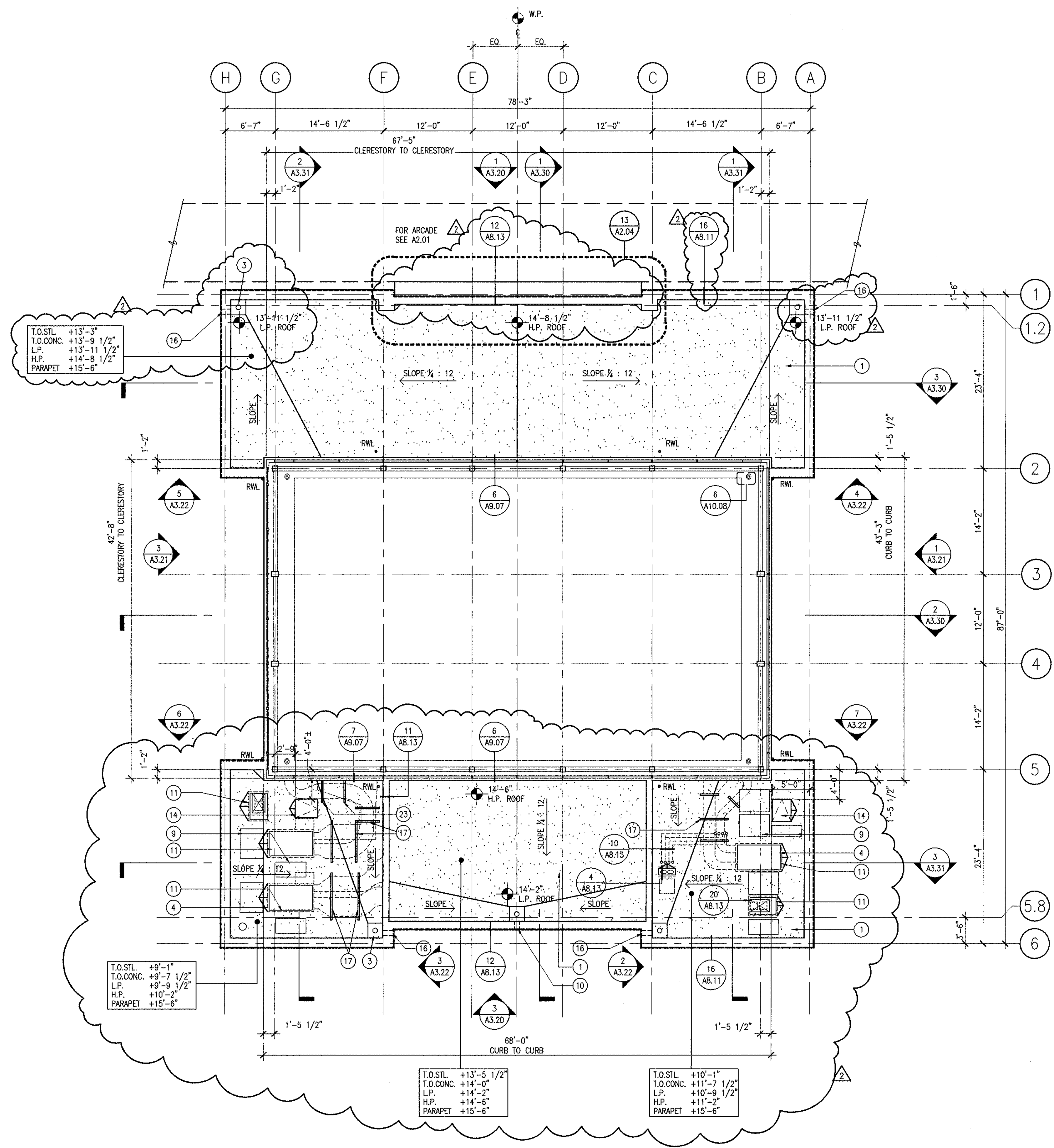
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- GENERAL NOTES
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 2. FOR TYPICAL ROOF DETAILS, SEE AB.13.
 3. FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.

- KEYNOTES
1. MEMBRANE ROOFING W/MINERAL CAP SHEET
 2. MFR. STANDING SEAM ROOF
 3. ROOF DRAIN, S.P.D.
 4. MECHANICAL EQUIPMENT, S.M.D.
 5. INTEGRAL GUTTER W/ EXPOSED RWL
 6. MEMBRANE ROOFING W/ GRAVEL SURFACING
 7. RWL, SEE 18/AB.14
 8. EXPANSION JOINT, SEE 17/AB.14
 9. WALK PAD, 36"x48"
 10. PAINTED GSM SCUPPER, 6"x6" (21.2 S.I. MIN.) SEE 14/AB.13
 11. MECHANICAL EQUIPMENT W/ SPRING CURB, SEE 19/AB.13
 12. SPLASHBLOCK
 13. PLUMBING VENT, S.M.D.
 14. 30" x 36" ROOF HATCH W/ACCESS LADDER, SEE 2/AB.13
 15. GUTTER EXPANSION JOINT; SEE 17/AB.14
 16. PAINTED GSM SCUPPER, 6"x8" (37.7 S.I. MIN.) SEE 13/AB.13
 17. DUCT SUPPORT, SEE 6/AB.13
 18. PRE-FINISHED SOFFIT PANEL
 19. SOFFIT VENT, PRE-FINISHED PERFORATED SOFFIT PANEL
 20. PRE-FINISHED INTEGRAL SHT. MITL. SOFFIT FLASHING; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOFING
 21. SPlice JOINT, SEE 5/AB.13
 22. FAN W/PRE-FABRICATED ROOF CURB
 23. WALL-MOUNTED DUCT SUPPORT BRACKET; SEE 6/AB.13 SM

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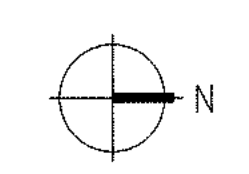
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SHEET SIZE

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COMMUNITY HALL ROOF PLAN 1
 1/8" = 1'-0"

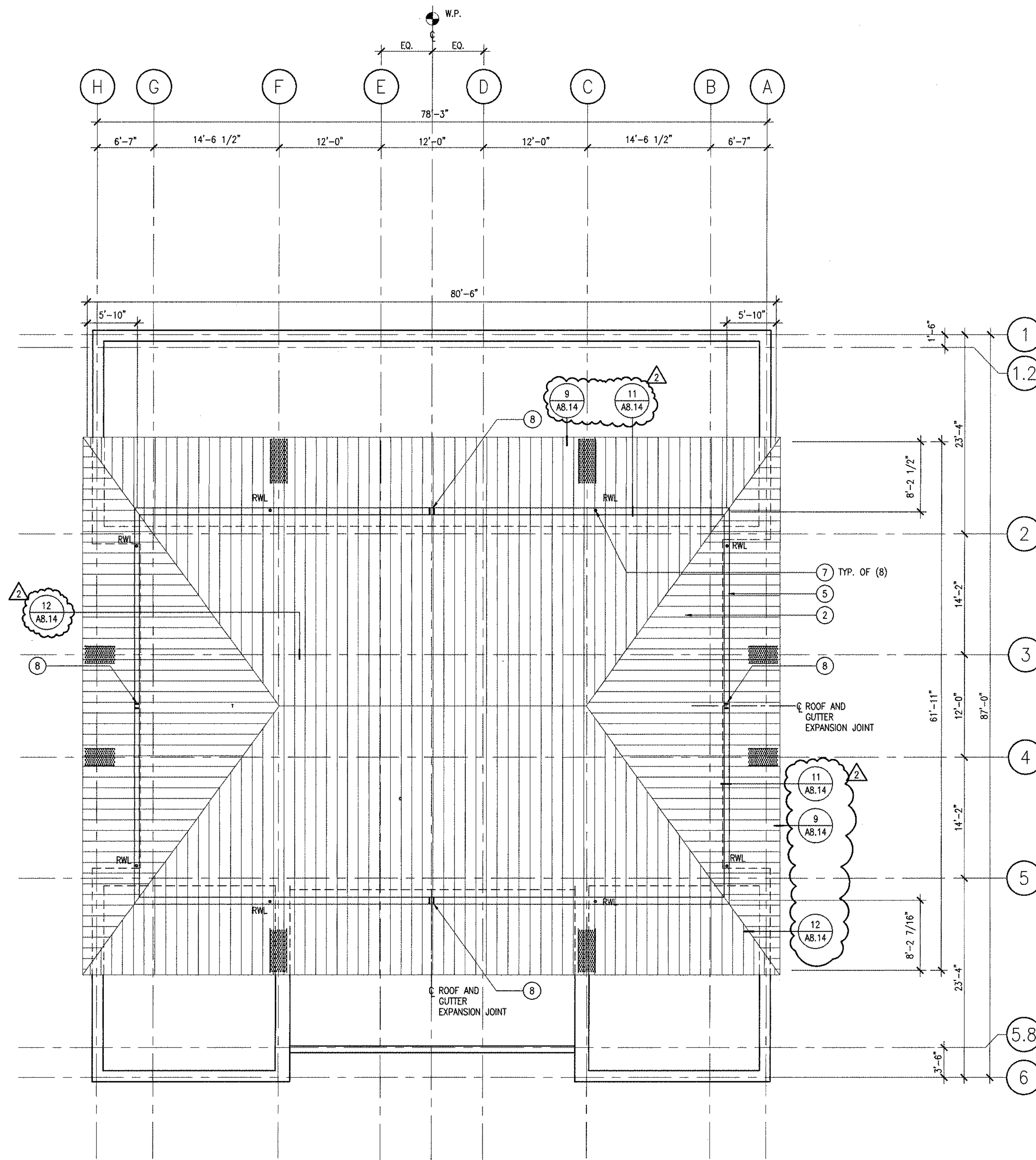


COMMUNITY HALL ROOF PLAN

SCALE 1/8" = 1'-0" date 2003.04.18
 drawn by project number 20114.00
 sheet number

A2.21

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GENERAL NOTES

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2. FOR TYPICAL ROOF DETAILS, SEE AB.13.
3. FOR TYPICAL MFR. STANDING SEAM ROOFING ATTACHMENT DETAILS, SEE 1 AND 2/AB.14.

KEYNOTES

- 1 MEMBRANE ROOFING W/MINERAL CAP SHEET
- 2 MFR. STANDING SEAM ROOF
- 3 ROOF DRAIN, S.P.D.
- 4 MECHANICAL EQUIPMENT, S.M.D.
- 5 INTEGRAL GUTTER W/ EXPOSED RWL
- 6 MEMBRANE ROOFING W/ GRAVEL SURFACING
- 7 RWL, SEE 18/AB.14
- 8 EXPANSION JOINT, SEE 17/AB.14
- 9 WALK PAD, 36"x48"
- 10 PAINTED GSM SCUPPER, 6"x6" (21.2 S.I. MIN.) SEE 14/AB.13
- 11 MECHANICAL EQUIPMENT W/ SPRING CURB, SEE 19/AB.13
- 12 SPLASHLOCK
- 13 PLUMBING VENT, S.M.D.
- 14 30" x 36" ROOF HATCH W/ACCESS LADDER, SEE 2/AB.13
- 15 GUTTER EXPANSION JOINT; SEE 17/AB.14
- 16 PAINTED GSM SCUPPER, 6"x8" (37.7 S.I. MIN.) SEE 13/AB.13
- 17 DUCT SUPPORT; SEE 6/AB.13
- 18 PRE-FINISHED SOFFIT PANEL
- 19 SOFFIT VENT; PRE-FINISHED PERFORATED SOFFIT PANEL
- 20 PRE-FINISHED INTEGRAL SHI. MTL. SOFFIT FLASHING; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOFING
- 21 SPLICE JOINT, SEE 5/AB.13
- 22 FAN W/PRE-FABRICATED ROOF CURB
- 23 WALL-MOUNTED DUCT SUPPORT BRACKET; SEE 6/AB.13 SM.

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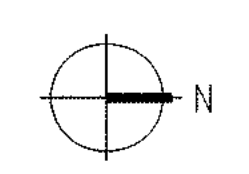
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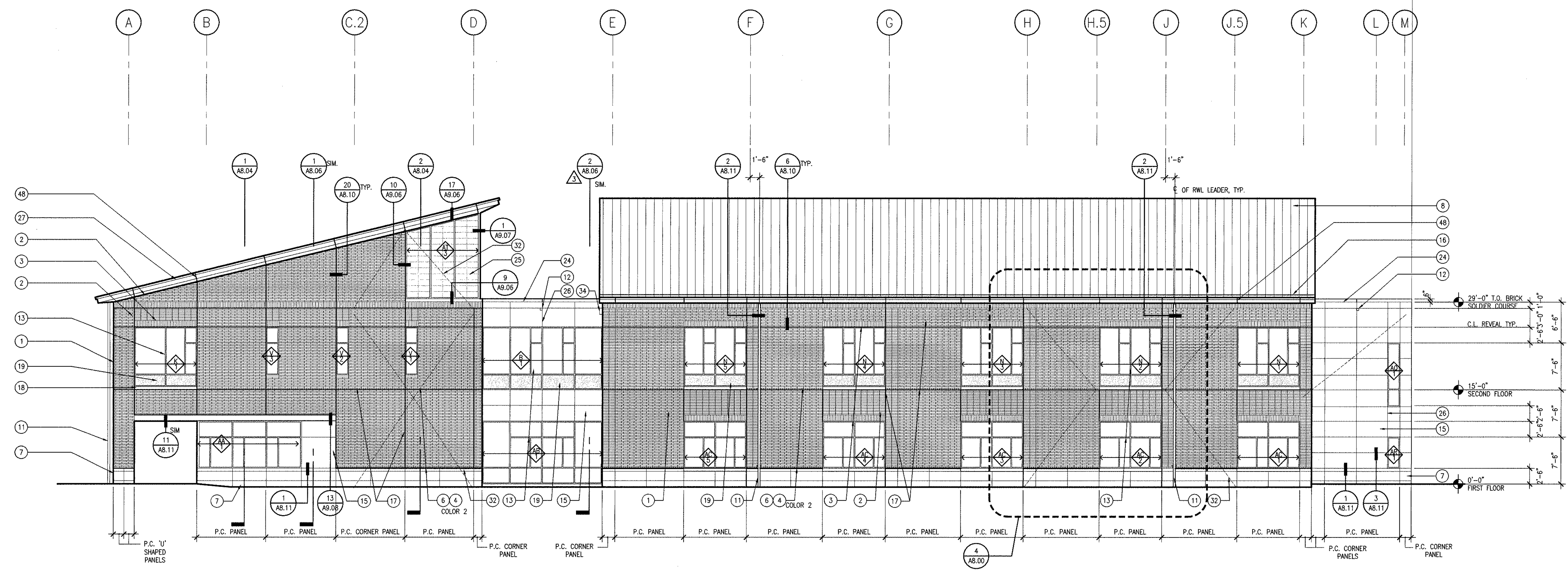
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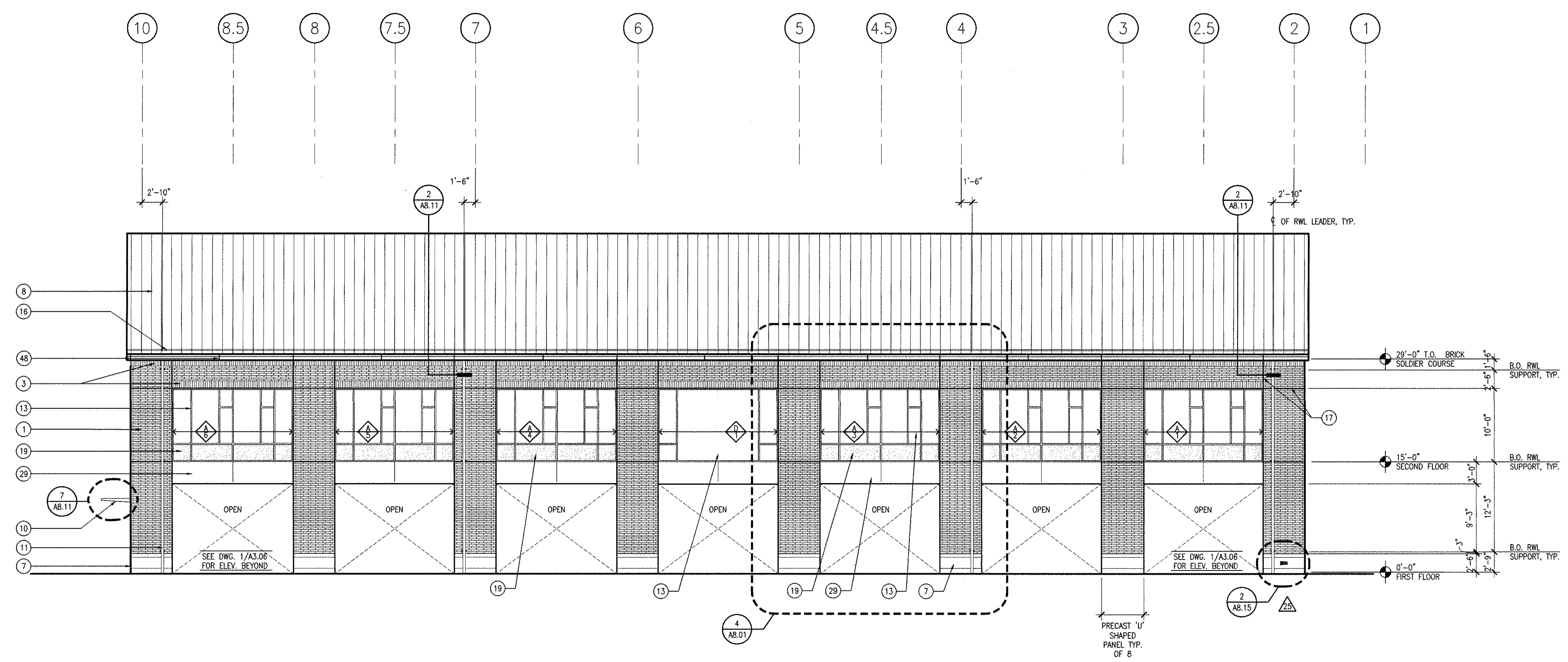
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WEST ELEVATION
1/8" = 1' - 0" 2



NORTH ELEVATION
1/8" = 1' - 0" 1

- GENERAL NOTES
- FOR WINDOW AND LOUVER TYPES, SEE SCHEDULE ON DWG. A9.05
 - FOR BRICK PATTERN GUIDELINES, SEE DETAILS 1-4/ A8.10
 - FOR TYPICAL MORTAR JOINT DETAIL, SEE 5/ A8.10
 - FOR TYPICAL BRICK ANCHOR, SEE 10/ A8.11
 - FOR EXTERIOR SYSTEMS MOCK-UPS, SEE 1, 1A AND 1B/A3.22
 - ALL BRICK VENEER AT LIBRARY IS COLOR 1, U.O.N. FOR COMMUNITY HALL BRICK COLOR, SEE SPECIFICATIONS.
 - COLORS: PC1: PAINT COLOR TO MATCH ALUM. WINDOW COLOR
PC2: PAINT COLOR TO MATCH MFR. STANDING SEAM ROOF COLOR
PC3: [PORTLAND CEMENT PLASTER]
PC4: [PORTLAND CEMENT PLASTER, COLOR TO MATCH BRICK COLOR 1]

- KEYNOTES
- NORMAN BRICK, 1/3 RUNNING BOND
 - NORMAN BRICK, STACKED BOND
 - NORMAN BRICK, SOLDIER BOND
 - BRICK, HEADER COURSE
 - BRICK, PROJECTED
 - BRICK, RECESSED
 - PRECAST CONC. BASE, INTEGRAL COLOR, SANDBLAST FIN.
 - MANUFACTURED STANDING SEAM ROOF
 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC4
 - EXPOSED STEEL, PAINTED; COLOR: PC2
 - GALV PIPE RAIN WATER LEADER, PAINTED; COLOR: PC2
 - G.S.M. SCUPPER, PAINTED; COLOR: PC2
 - ALUMINUM WINDOW WALL
 - OPERABLE WINDOW
 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 - INTEGRAL GUTTER
 - EXPANSION JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
 - GLAZED ENTRY DOOR
 - CML WALL OPENING FOR MECH. DUCT, S.S.D.
 - HOLLOW METAL DOOR, PAINTED; COLOR: PC3, U.O.N.
 - ACCESSIBLE TOILET ROOM SIGNAGE
 - PREFINISHED SHT. MTL. PARAPET CAP; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - TRANSLUCENT CLERESTORY
 - 1/4" ALUM REEV TYP., SEE DETAIL 3/A8.11
 - PREFINISHED SHT. MTL. FASCIA; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - S.ST. BOOK DEPOSITORY, TYP OF 6
 - PREFINISHED METAL WALL PANEL
 - PRECAST CONCRETE BENCH
 - TRANSLUCENT CLERESTORY
 - BRACE FRAME BEYOND, S.S.D.
 - ROOF STAIR BEYOND, SEE A2.12
 - SECURITY SIREN/ CCTV, S.T.D.
 - OUTLET, S.E.D.
 - HORN/ STROBE, SEE E2.10
 - HOSE BIB, S.P.D.
 - CARD READER @ + 42" A.F.F.
 - INTERCOM/BELL @ + 42" A.F.F.
 - S.ST. DOOR ACTUATOR PUSH PLATE
 - 16 GA. STAINLESS STL. COVER PLATE
 - WALL MOUNTED MECH. SUPPORT BRACKETS; GALV. STEEL
 - STAINLESS STL. LETTERS, N.I.C.
 - NORMAN BRICK, FLEMISH BOND
 - EXTERIOR LIGHT, S.E.D.
 - SOLAR SHADE AT VISION GLASS
 - ENTRY DECAL; INTERNATIONAL SYMBOL OF ACCESSIBILITY
 - SPUCE JOINT, SEE DETAIL 5/A8.13
 - PREFINISHED ALUM FASCIA AT DOOR OPERATOR
 - DOOR OPERATOR PUSH PLATE-SEE DOOR SCHEDULE
 - SIGN; MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE; GENERAL NOTE #10.
 - CANOPY, SEE 3/A8.06; COLOR: PC2

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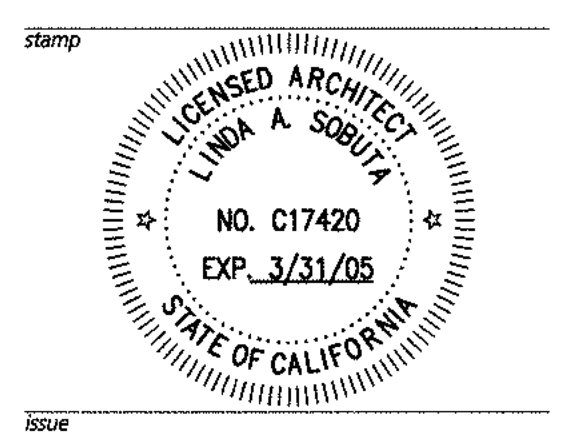
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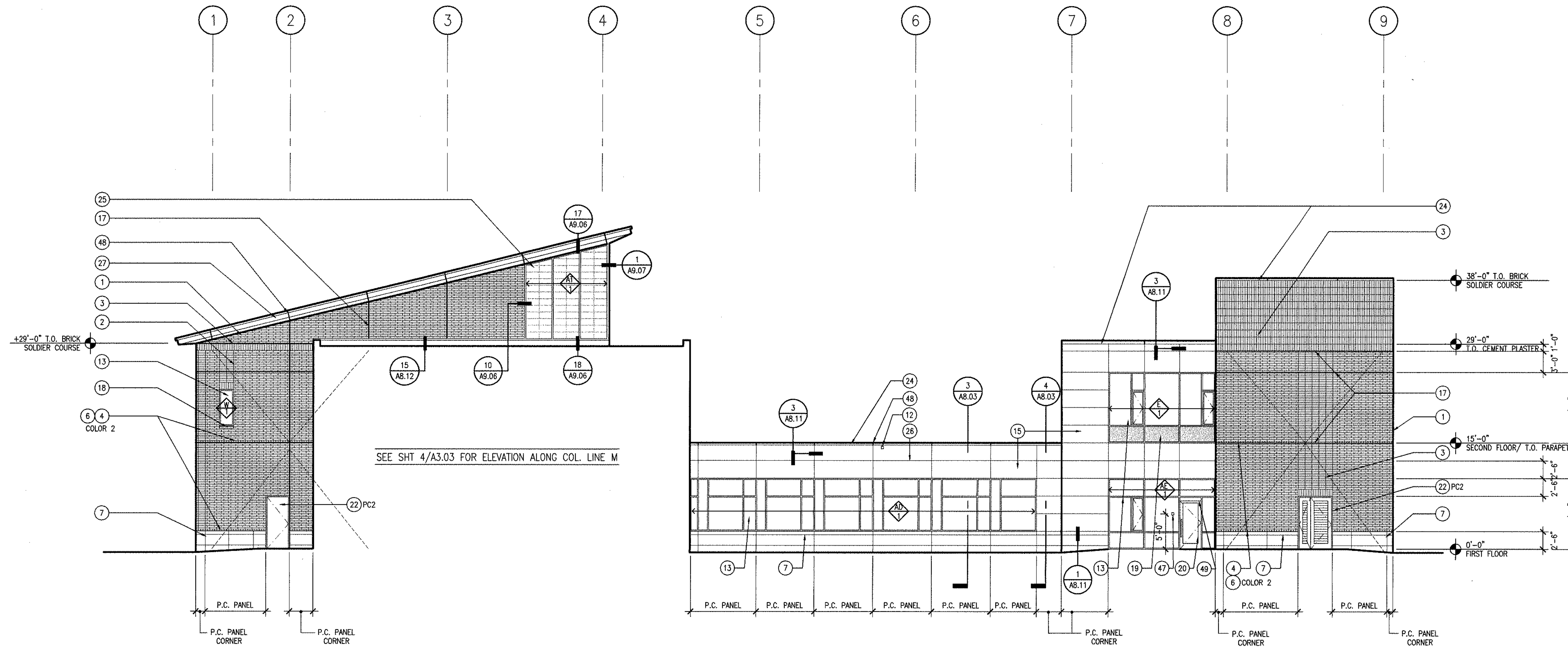


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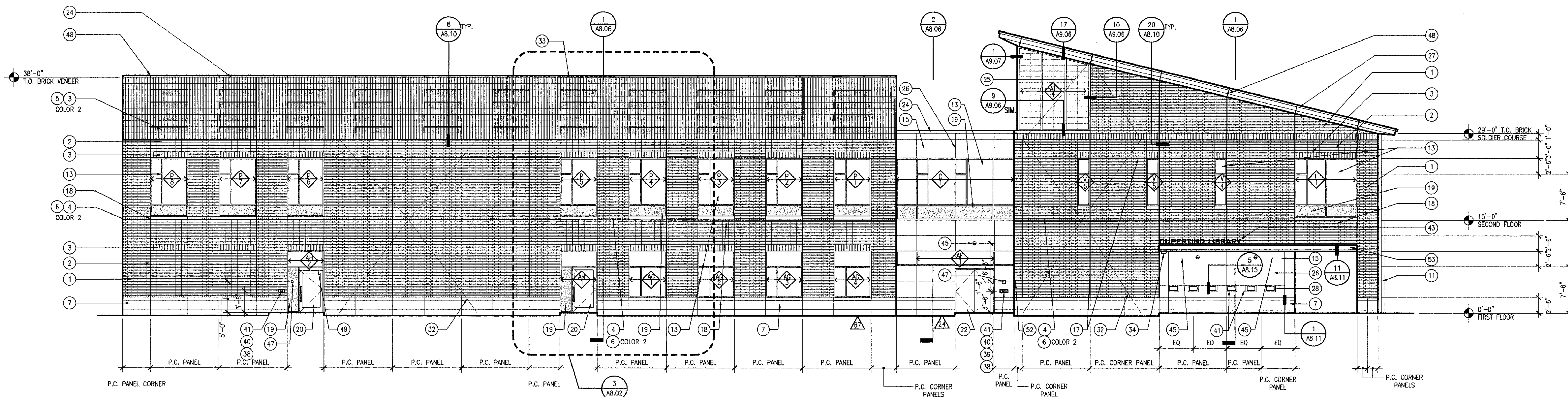
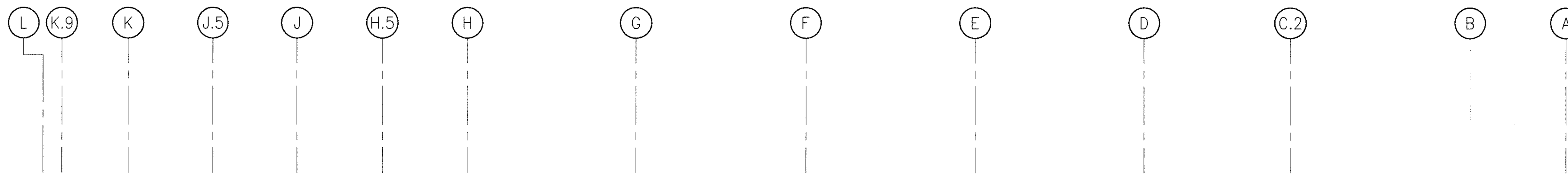
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ELEVATIONS

SCALE: 1/8" = 1'-0" DATE: 2003.04.18
DRAWN BY: CN/LR PROJECT NUMBER: 20114.00
SHEET NUMBER: 1

A3.01



SOUTH ELEVATION
1/8" = 1' - 0" **2**



EAST ELEVATION
1/8" = 1' - 0" **1**

- GENERAL NOTES**
- FOR WINDOW AND LOUVER TYPES, SEE SCHEDULE ON DWG. A9.05
 - FOR BRICK PATTERN GUIDELINES, SEE DETAILS 1-4/ AB.10
 - FOR TYPICAL MORTAR JOINT DETAIL, SEE 5/ AB.10
 - FOR TYPICAL BRICK ANCHOR, SEE 10/ AB.11
 - FOR EXTERIOR SYSTEMS MOCK-UPS, SEE 1, 1A AND 1B/A3.22
 - ALL BRICK VENER AT LIBRARY IS COLOR 1, U.O.N. FOR COMMUNITY HALL BRICK COLOR, SEE SPECIFICATIONS.
 - COLORS: PC1: PAINT COLOR TO MATCH ALUM. WINDOW COLOR
PC2: PAINT COLOR TO MATCH MFR. STANDING SEAM ROOF COLOR
PC3: [PORTLAND CEMENT PLASTER]
PC4: [PORTLAND CEMENT PLASTER, COLOR TO MATCH BRICK COLOR 1]

- KEYNOTES**
- NORMAN BRICK, 1/3 RUNNING BOND
 - NORMAN BRICK, STACKED BOND
 - NORMAN BRICK, SOLDIER BOND
 - BRICK, HEADER COURSE
 - BRICK, PROJECTED
 - BRICK, RECESSED
 - PRECAST CONC. BASE, INTEGRAL COLOR, SANDBLAST FIN.
 - MANUFACTURED STANDING SEAM ROOF
 - EXTERIOR CEMENT PLASTER, PAINTED, COLOR: PC4
 - EXPOSED STEEL, PAINTED, COLOR: PC2
 - GALV PIPE RAIN WATER LEADER, PAINTED, COLOR: PC2
 - G.S.M. SCUPPER, PAINTED, COLOR: PC2
 - ALUMINUM WINDOW WALL
 - OPERABLE WINDOW
 - EXTERIOR CEMENT PLASTER, PAINTED, COLOR: PC3
 - INTERVAL GUTTER
 - EXPANSION JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
 - GLAZED ENTRY DOOR
 - CMU WALL OPENING FOR MECH. DUCT, S.S.D.
 - HOLLOW METAL DOOR, PAINTED, COLOR: PC3, U.O.N.
 - ACCESSIBLE TOILET ROOM SIGNAGE
 - PREFINISHED SHT. MTL. PARAPET CAP, MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - TRANSLUCENT CLERESTORY
 - 1/4" ALUM REVEAL TYP., SEE DETAIL 3/AB.11
 - PREFINISHED SHT. MTL. FASCIA, MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - S.S.T. BOOK DEPOSITORY, TYP OF 6
 - PREFINISHED METAL WALL PANEL
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 - TRANSLUCENT CLERESTORY
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 - ROOF STAR BEYOND, SEE A2.12
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 - NORMAN BRICK, FLEMISH BOND
 - EXTERIOR LIGHT, S.E.D.
 - SOLAR SHADE AT VISION GLASS
 - ENTRY DECAL: INTERNATIONAL SYMBOL OF ACCESSIBILITY
 - SPLICE JOINT, SEE DETAIL 5/AB.13
 - PREFINISHED ALUM FASCIA AT DOOR OPERATOR
 - DOOR OPERATOR PUSH PLATE-SEE DOOR SCHEDULE
 - SIGN; MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE; GENERAL NOTE #10.
 - CANOPY, SEE 3/AB.06, COLOR: PC2

SIEMANN
architecture
interiors
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City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
390 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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San Francisco, CA 94111
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Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415 398 3833 T
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Lighting Design
370 Brannan Street
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11-29-04 Updated Contract Documents

NO. C17420
EXP. 3/31/05

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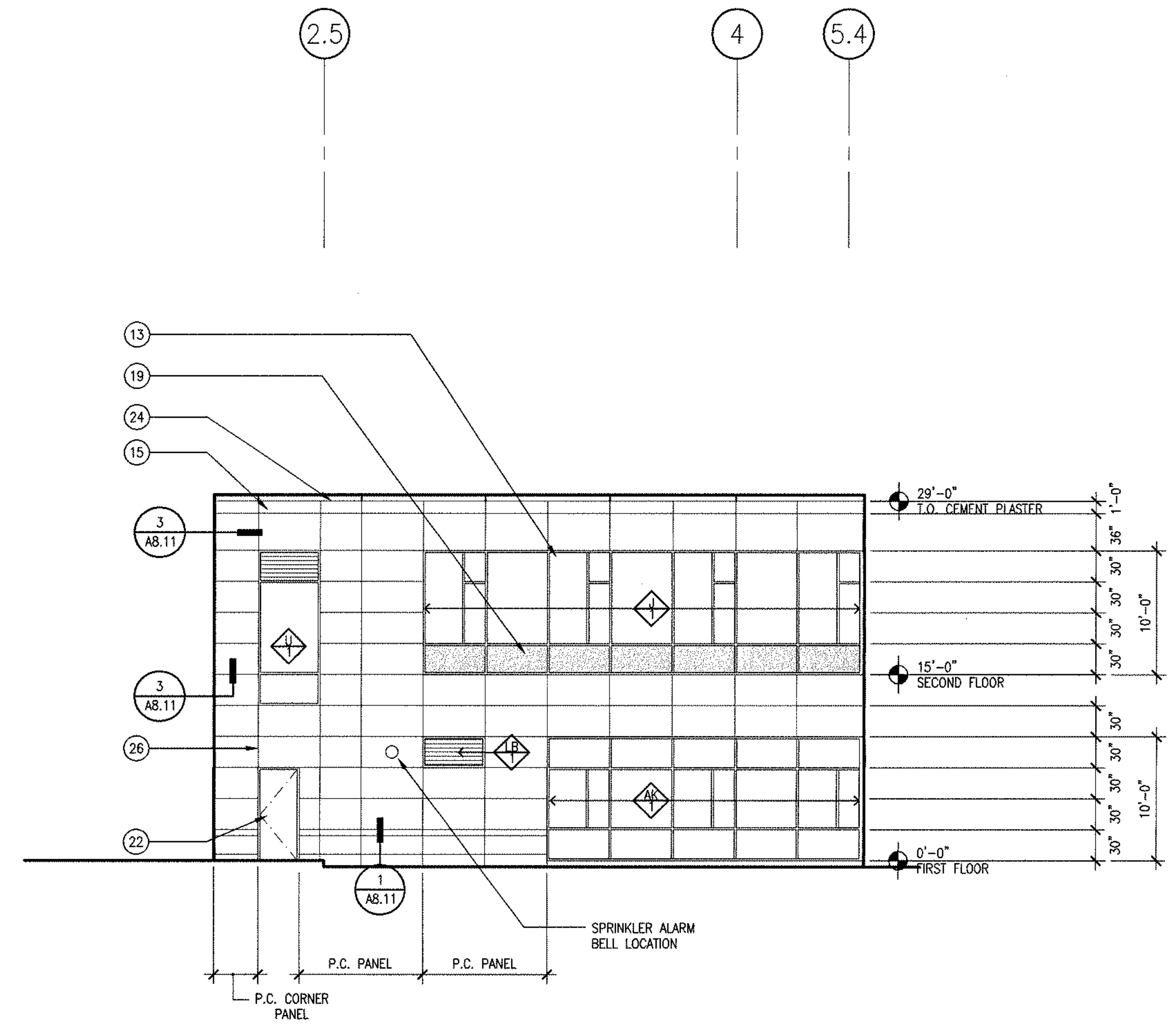
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date: 2003.04.18
drawn by: GN/LR project number: 20114.00
sheet number: 20114.00

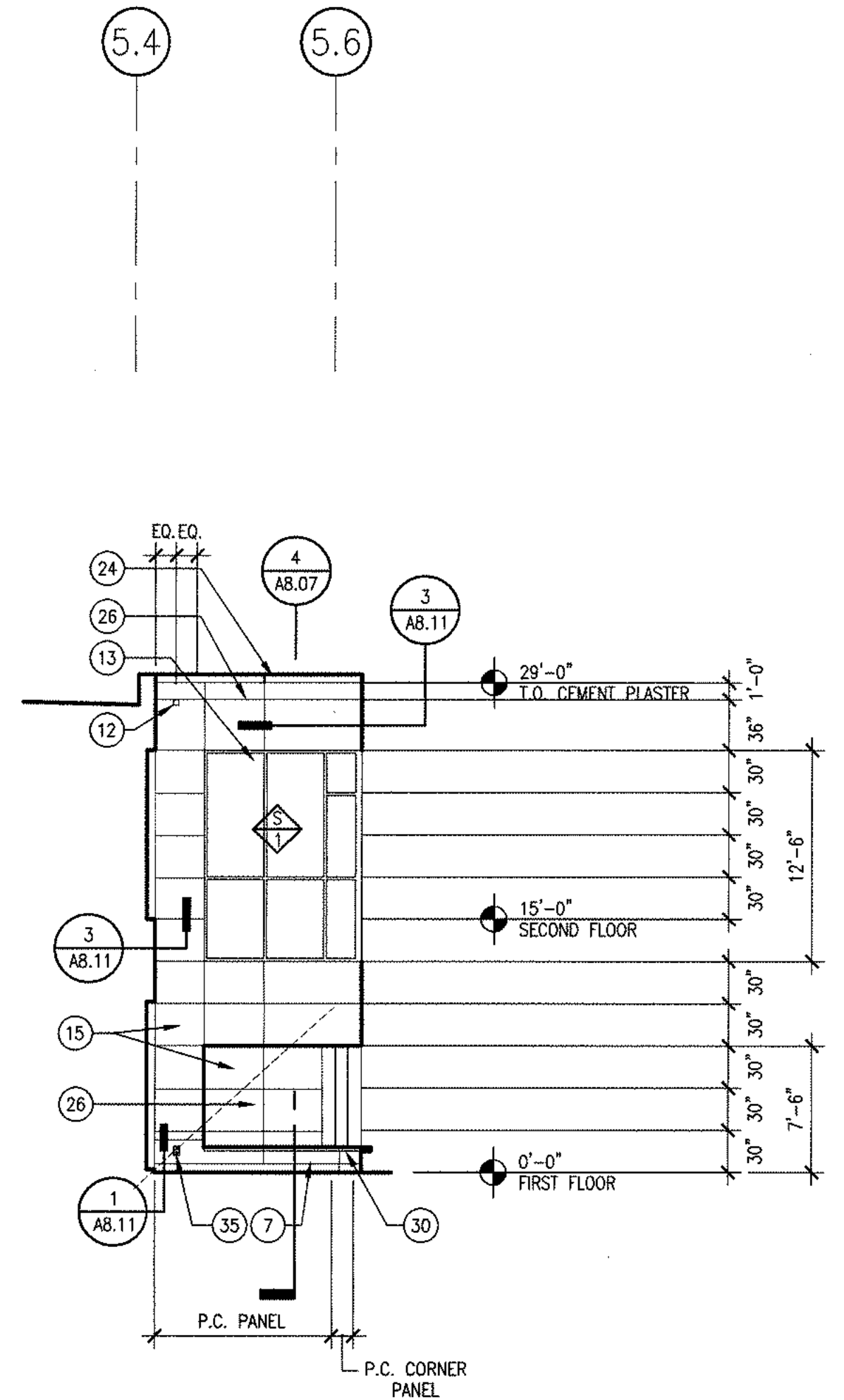
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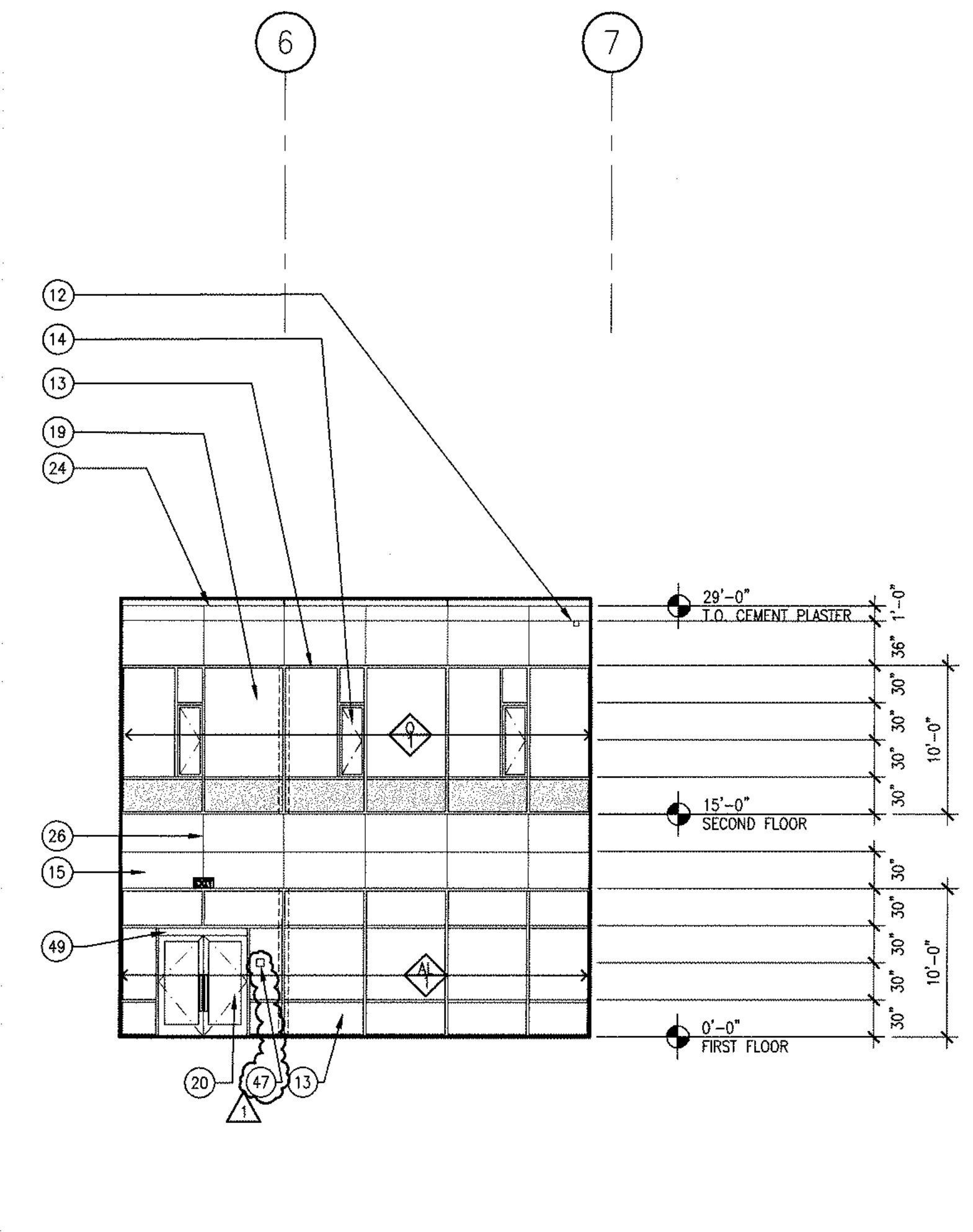
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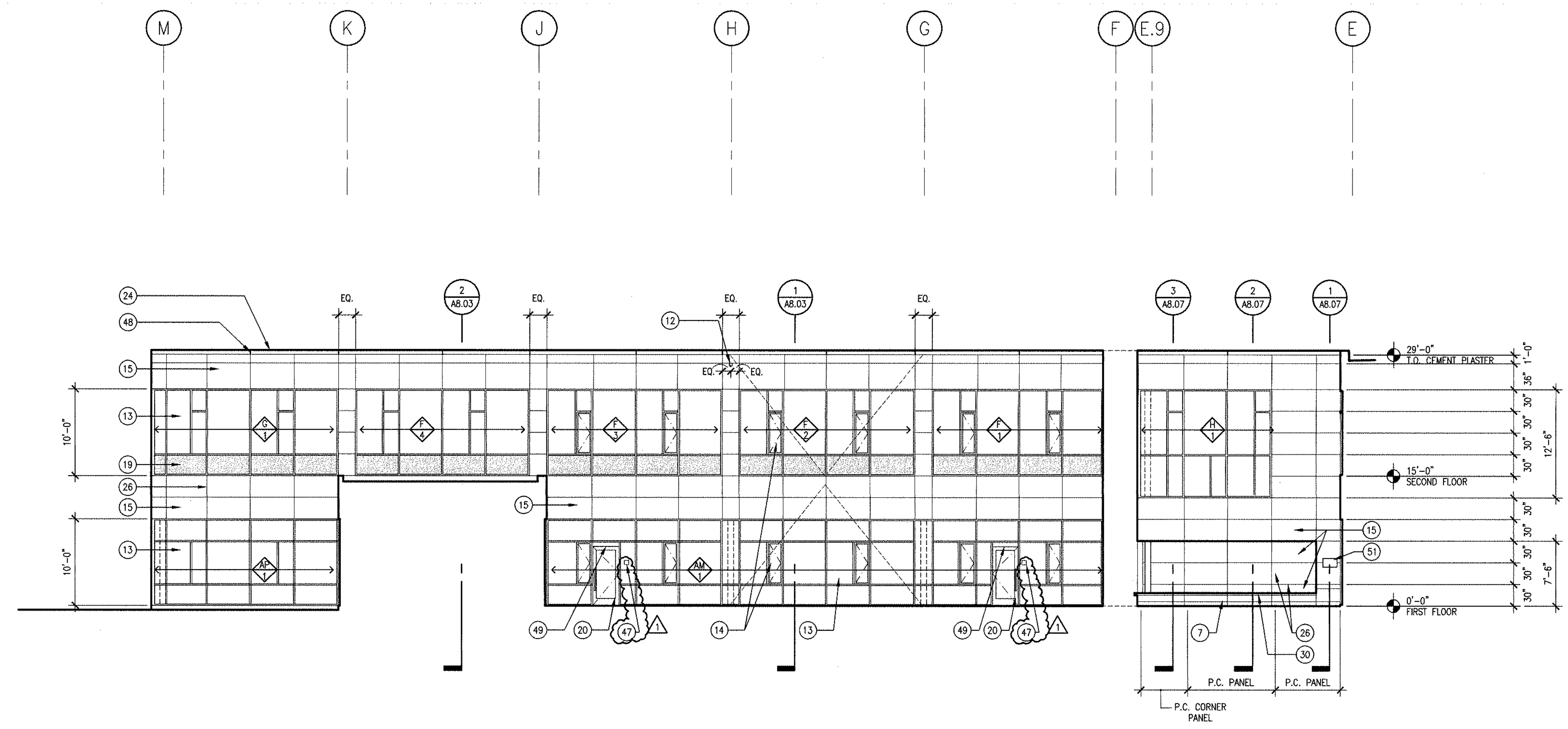
SOUTH QUIET STUDY/ STORYTIME ELEVATION
1/8" = 1' - 0" 4



SOUTH COURTYARD ELEVATION AT STAIR
1/8" = 1' - 0" 3



SOUTH COURTYARD ELEVATION
1/8" = 1' - 0" 2



WEST COURTYARD ELEVATION—
PERPENDICULAR TO COL. LN 5.4

STAIR 1 WEST COURTYARD ELEVATION
PERPENDICULAR TO COL. LN 5.6

EAST COURTYARD ELEVATION
1/8" = 1' - 0" 1

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 - OPERABLE WINDOW
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 - EXPANSION JOINT
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 - OUTLET, S.E.D.
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 - SOLAR SHADE AT VISION GLASS
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 - SPLICE JOINT, SEE DETAIL 5/A8.13
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 - SIGN; MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE, GENERAL NOTE #10.
 - CANOPY, SEE 3/A8.06, COLOR: PC2

SWMM architecture interiors planning graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Elsesser
Engineers, Inc.
160 Fine Street
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415 837 0700 T
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Flack + Kurtz
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Suite 500
San Francisco, CA 94105
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San Francisco, CA 94107
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2003.05.05 ADDENDUM NO. 1

11-29-04 Updated Contract Documents

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LINDA A. SOBIECH
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EXP. 3/31/05
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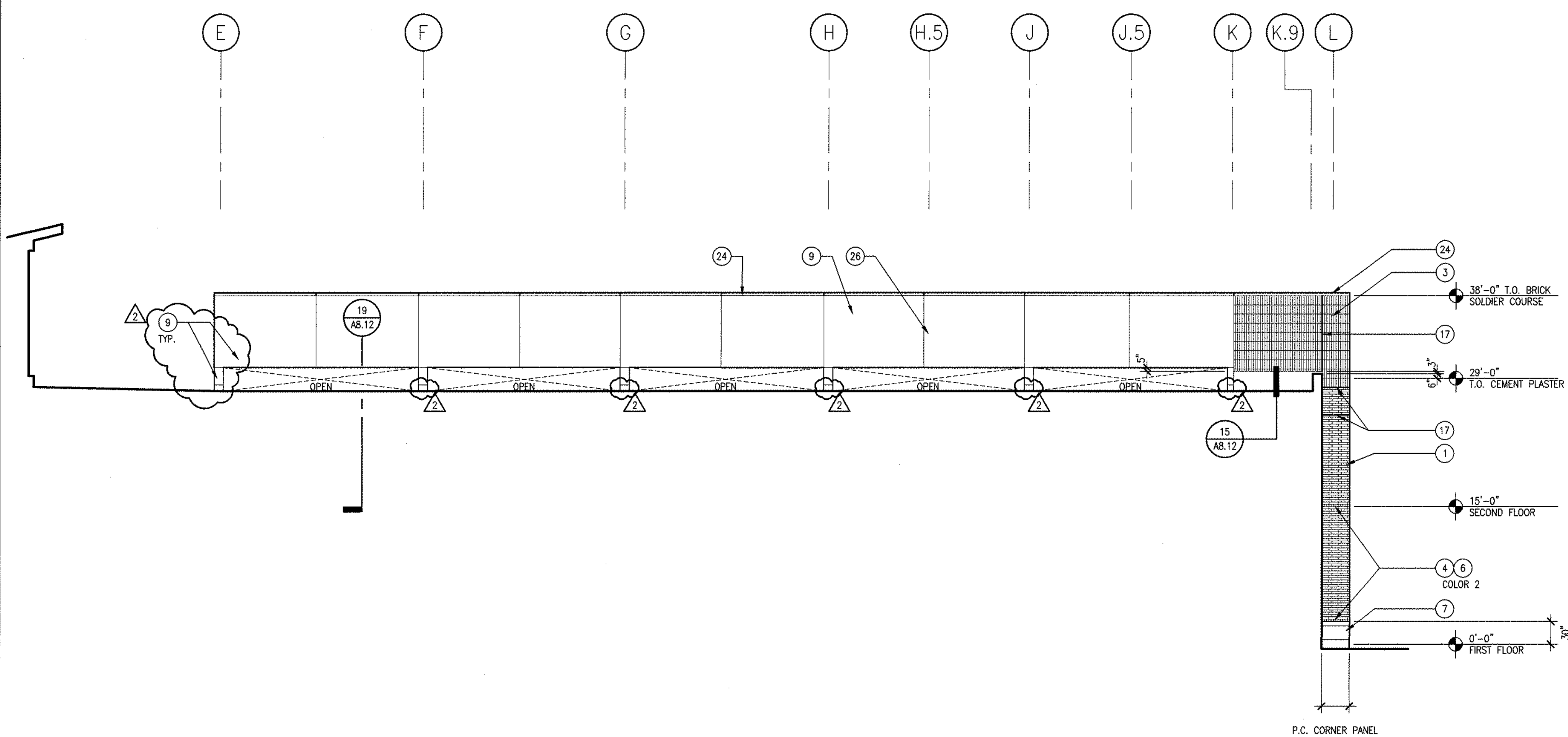
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LIBRARY
EXTERIOR
ELEVATIONS

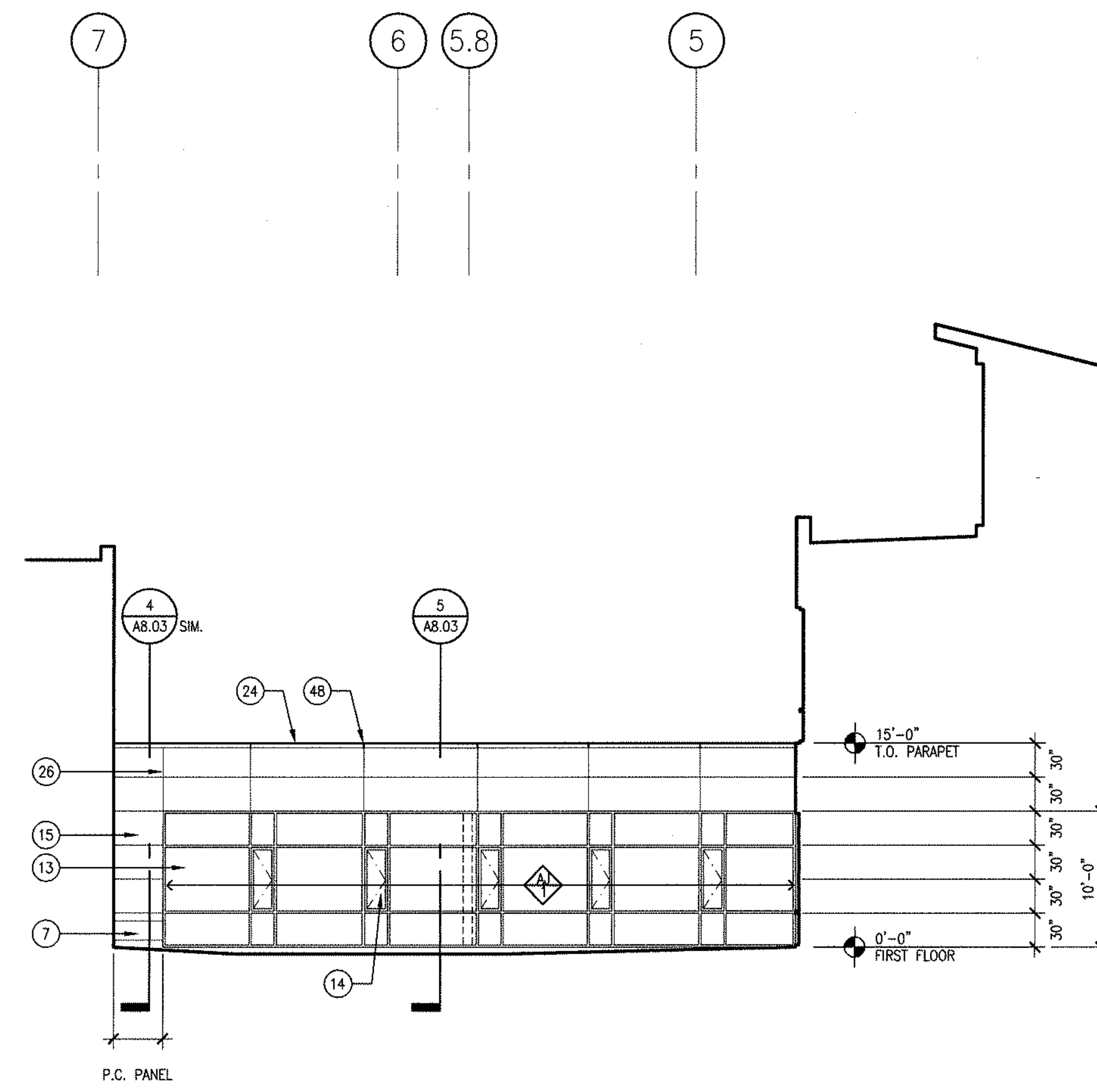
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A3.03

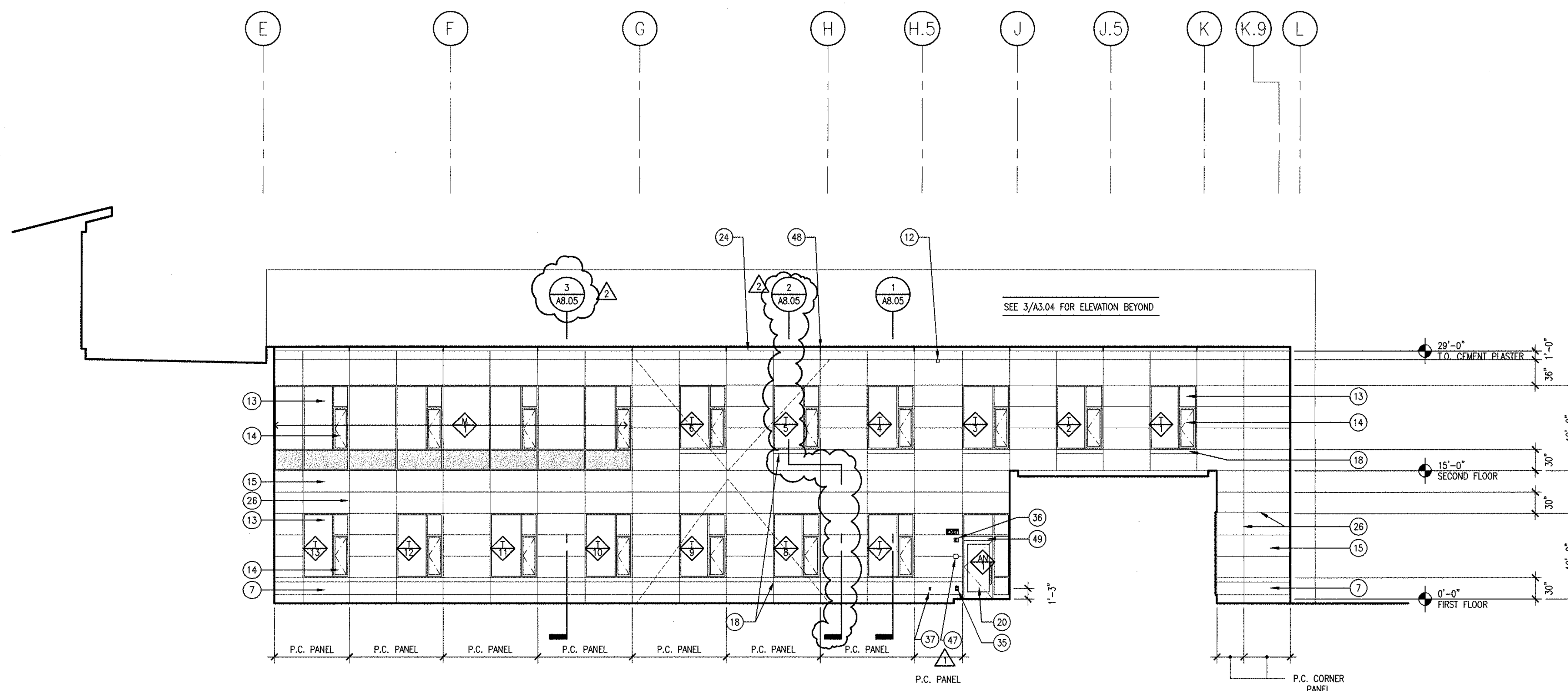
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WEST MECHANICAL SCREEN ELEVATION
1/8" = 1' - 0" 3



NORTH COURTYARD ELEVATION
1/8" = 1' - 0" 2



WEST COURTYARD ELEVATION
1/8" = 1' - 0" 1

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 - ALUMINUM WINDOW WALL
 - OPERABLE WINDOW
 - EXTERIOR CEMENT PLASTER, PAINTED, COLOR: PC3
 - EXPANSION GUTTER
 - INTEGRAL JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
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 - HOLLOW METAL DOOR, PAINTED, COLOR: PC3, U.O.N.
 - ACCESSIBLE TOILET ROOM SIGNAGE
 - PREFINISHED SHT. MTL. PARAPET CAP, MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
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 - 1/4" ALUM REVEAL TYP., SEE DETAIL 3/A8.11
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 - S.S.T. BOOK DEPOSITORY, TYP OF 6
 - PREFINISHED METAL WALL PANEL
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 - ROOF STAR BEYOND, SEE A2.12
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 - DOOR OPERATOR PUSH PLATE-SEE DOOR SCHEDULE
 - SIGN: MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE, GENERAL NOTE #10.
 - CANDOPY, SEE 3/A8.06, COLOR: PC2

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architecture
interiors
planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser
Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
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Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
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Revisions
2003.05.07 ADDENDUM NO. 1
2003.05.30 ADDENDUM NO. 2

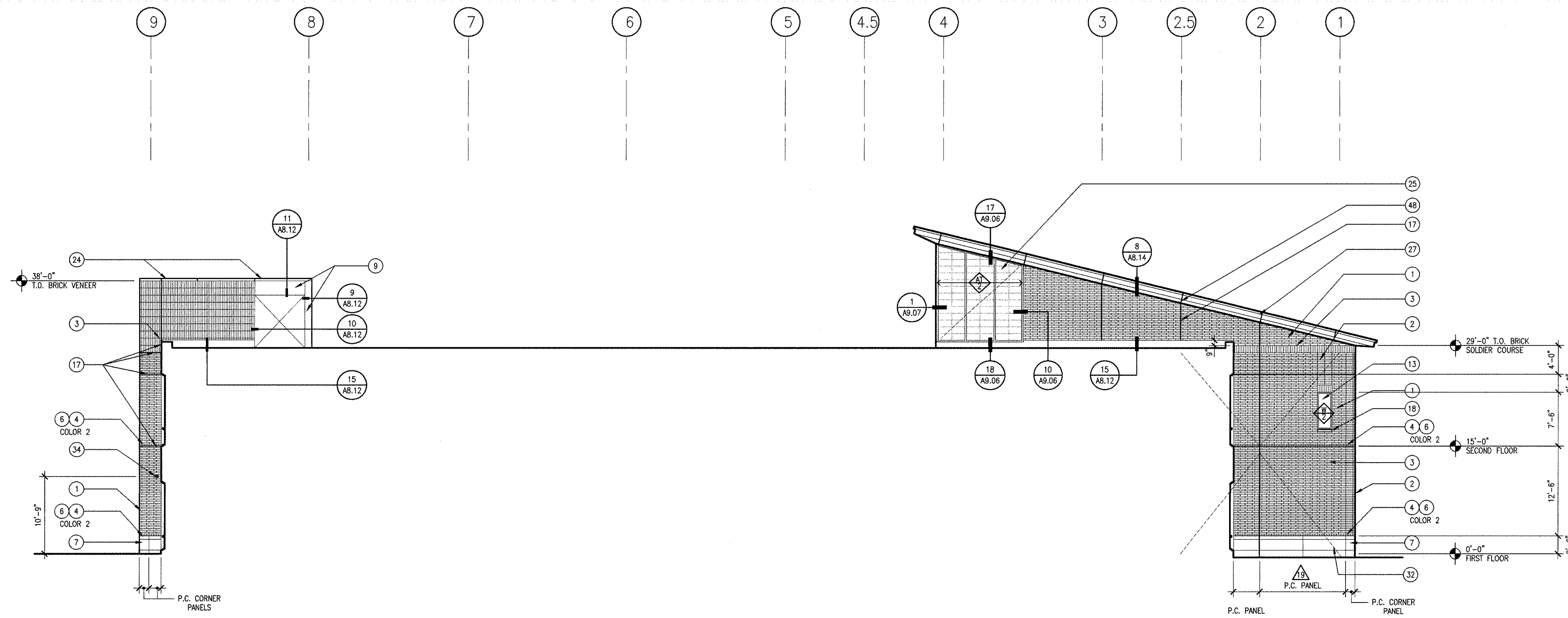
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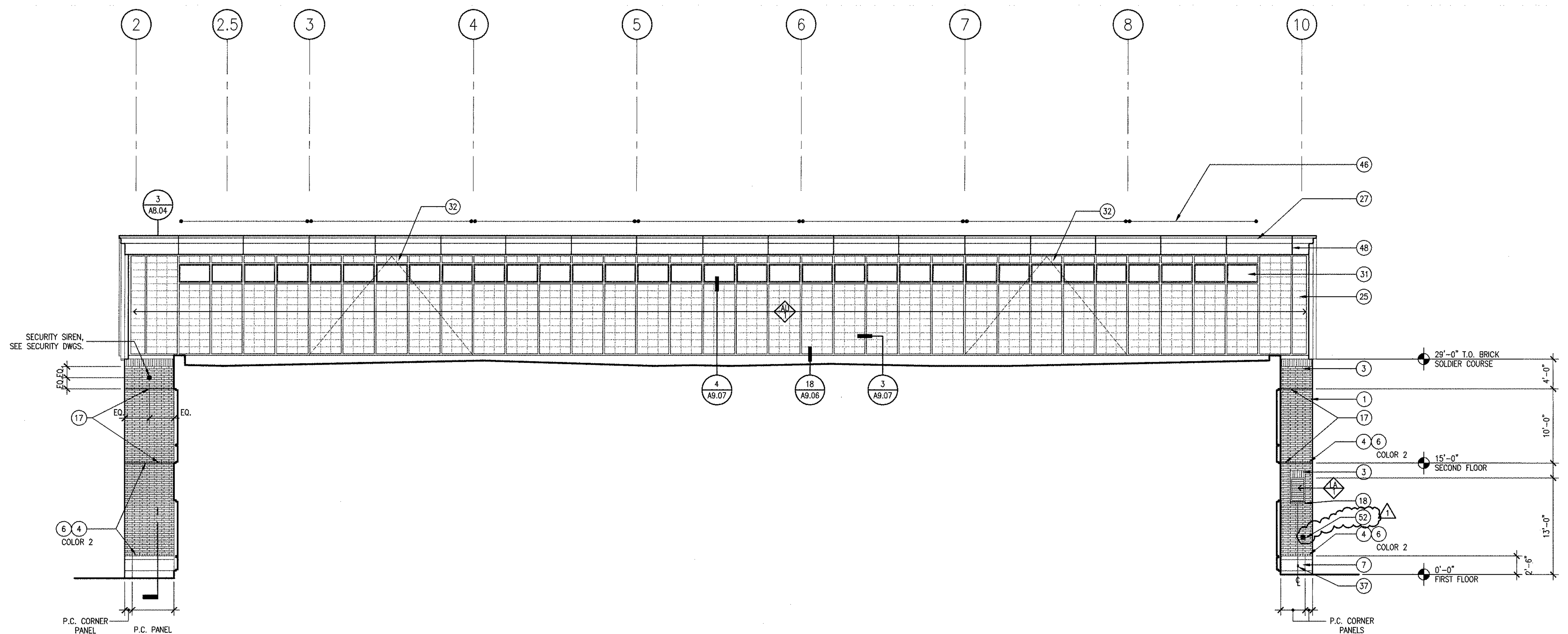
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SCALE
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drawn by CN/LR project number 20114.00
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PARTIAL NORTH ELEVATION
1/8" = 1' - 0" 2



PARTIAL SOUTH ELEVATION WITH CLERESTORY
1/8" = 1' - 0" 1

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 - GALV PIPE RAIN WATER LEADER, PAINTED; COLOR: PC2
 - G.S.M. SCUPPER, PAINTED; COLOR: PC2
 - ALUMINUM WINDOW WALL
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 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 - EXPANSION JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
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 - CANOPY, SEE 3/A8.06, COLOR: PC2

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City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
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Sandis Humber Jones
590 Menlo Drive, Suite 1
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2003.05.07 ADDENDUM NO. 1

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LIBRARY EXTERIOR ELEVATIONS

scale 1/8" = 1'-0"
drawn by CM/LR
sheet number
date 2003.04.18
project number 20114.00

A3.05

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 - PRECAST CONC. BASE, INTEGRAL COLOR, SANDBLAST FIN.
 - MANUFACTURED STANDING SEAM ROOF
 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC4
 - EXPOSED STEEL, PAINTED; COLOR: PC2
 - GALV PIPE RAIN WATER LEADER, PAINTED; COLOR: PC2
 - G.S.M. SCUPPER, PAINTED; COLOR: PC2
 - ALUMINUM WINDOW WALL
 - OPERABLE WINDOW
 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 - EXPANSION JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
 - GLAZED ENTRY DOOR
 - CMU WALL OPENING FOR MECH. DUCT, S.S.D.
 - HOLLOW METAL DOOR, PAINTED; COLOR: PC3, U.O.N.
 - ACCESSIBLE TOILET ROOM SIGNAGE
 - PREFINISHED SHT. MTL. PARAPET CAP; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - TRANSLUCENT CLERESTORY
 - 1/4" ALUM REVEAL TYP., SEE DETAIL 3/A8.11
 - PREFINISHED SHT. MTL. FASIA; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - S.ST. BOOK DEPOSITORY, TYP OF 6
 - PREFINISHED METAL WALL PANEL
 - PRECAST CONCRETE BENCH
 - TRANSLUCENT CLERESTORY
 - BRACE FRAME BEYOND, S.S.D.
 - ROOF STAIR BEYOND, SEE A2.12
 - SECURITY SIREN/ CCTV, S.T.D.
 - OUTLET, S.E.D.
 - HORN/ STROBE, SEE E2.10
 - HOSE BIB, S.P.D.
 - CARD READER @ + 42" A.F.F.
 - INTERCOM/BELL @ + 42" A.F.F.
 - S.ST. DOOR ACTUATOR PUSH PLATE
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 - NORMAN BRICK, FLEMISH BOND
 - EXTERIOR LIGHT, S.E.D.
 - SOLAR SHADE AT VISION GLASS
 - ENTRY DECAL; INTERNATIONAL SYMBOL OF ACCESSIBILITY
 - SPLICE JOINT, SEE DETAIL 5/A8.13
 - PREFINISHED ALUM FASIA AT DOOR OPERATOR
 - DOOR OPERATOR PUSH PLATE-SEE DOOR SCHEDULE
 - SIGN; MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE; GENERAL NOTE #10.
 - CANOPY, SEE 3/A8.06, COLOR: PC2

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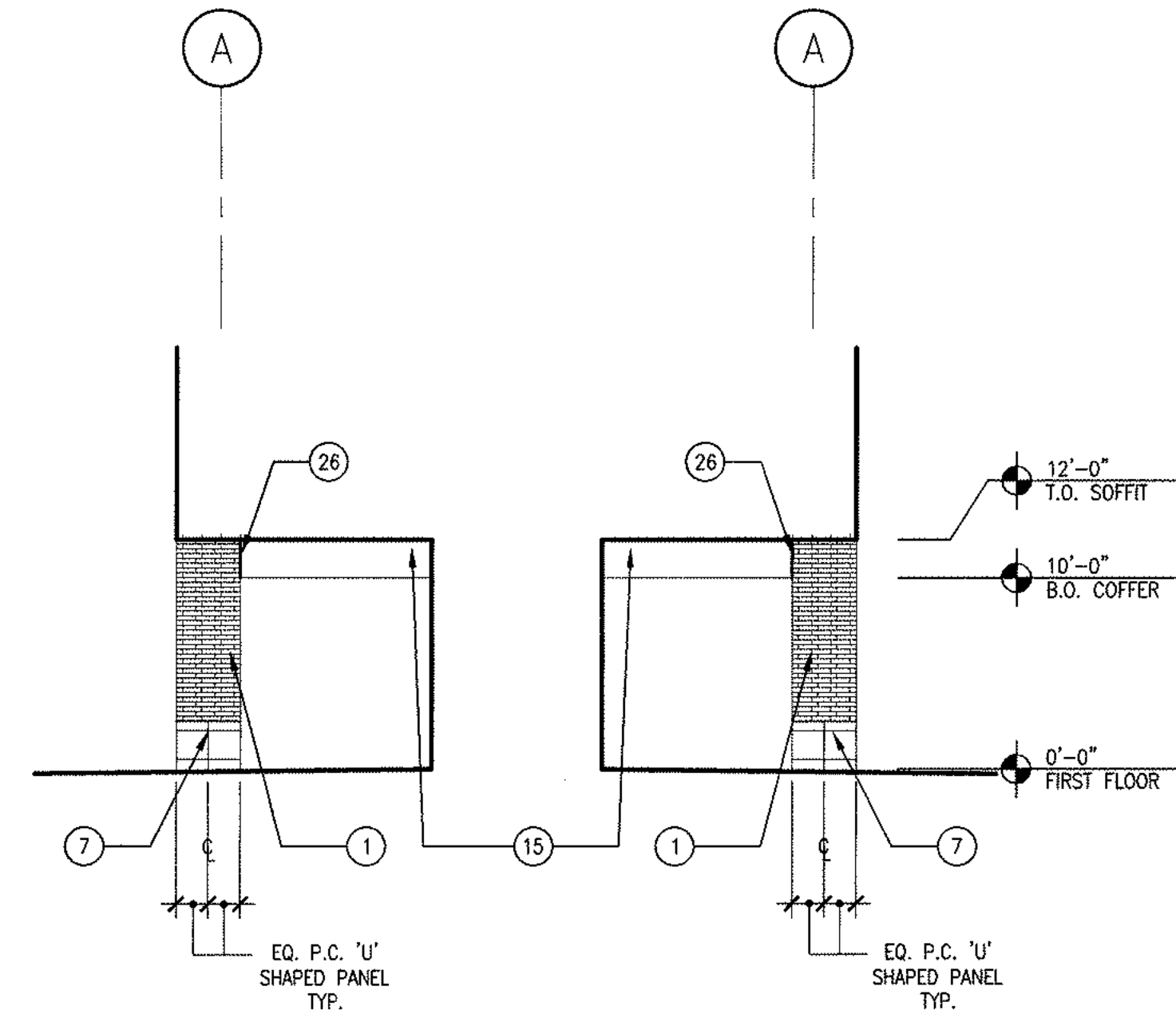
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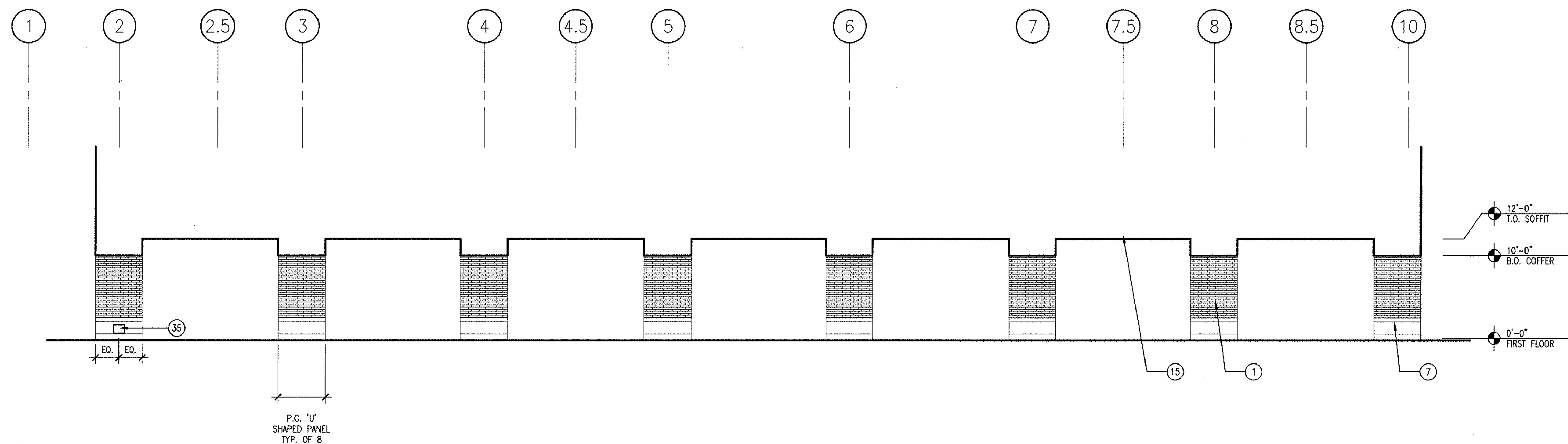
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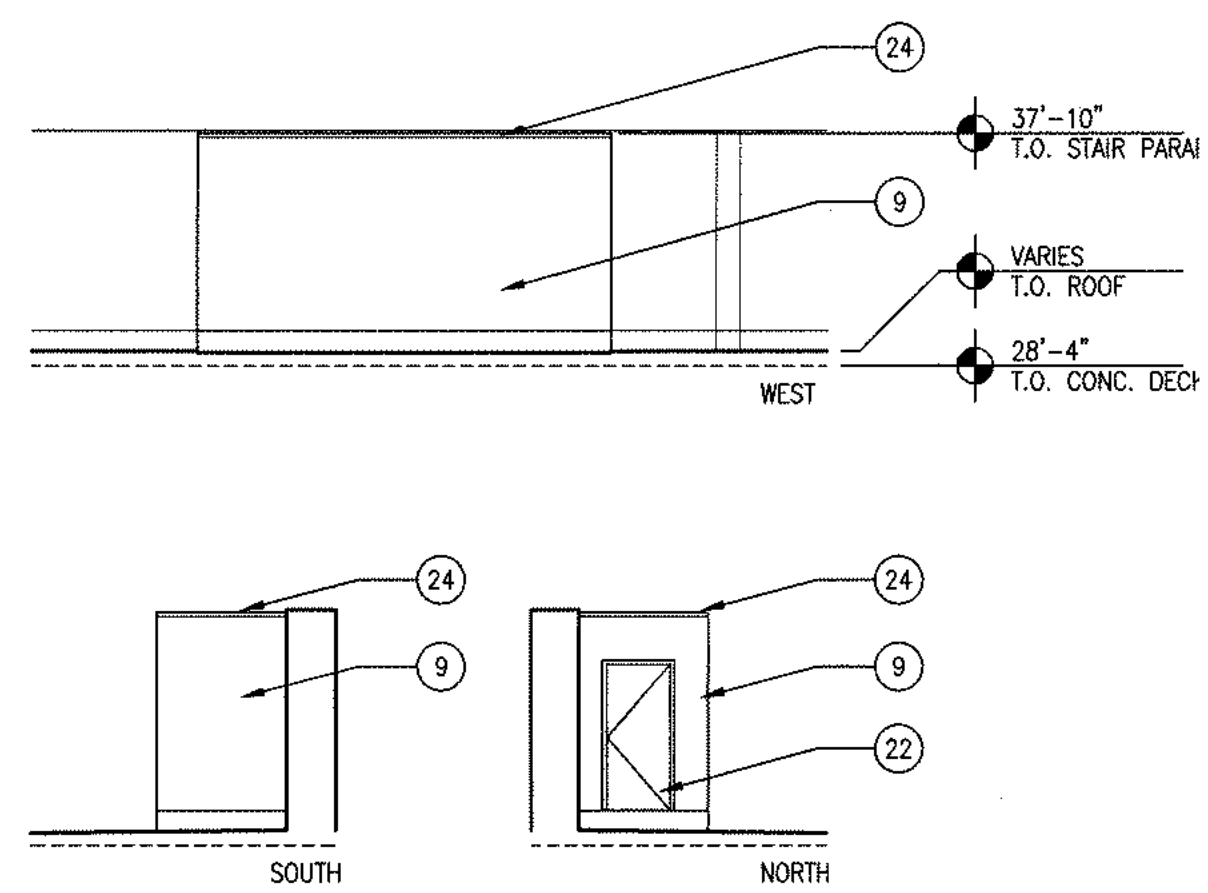
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415 495 4660 F



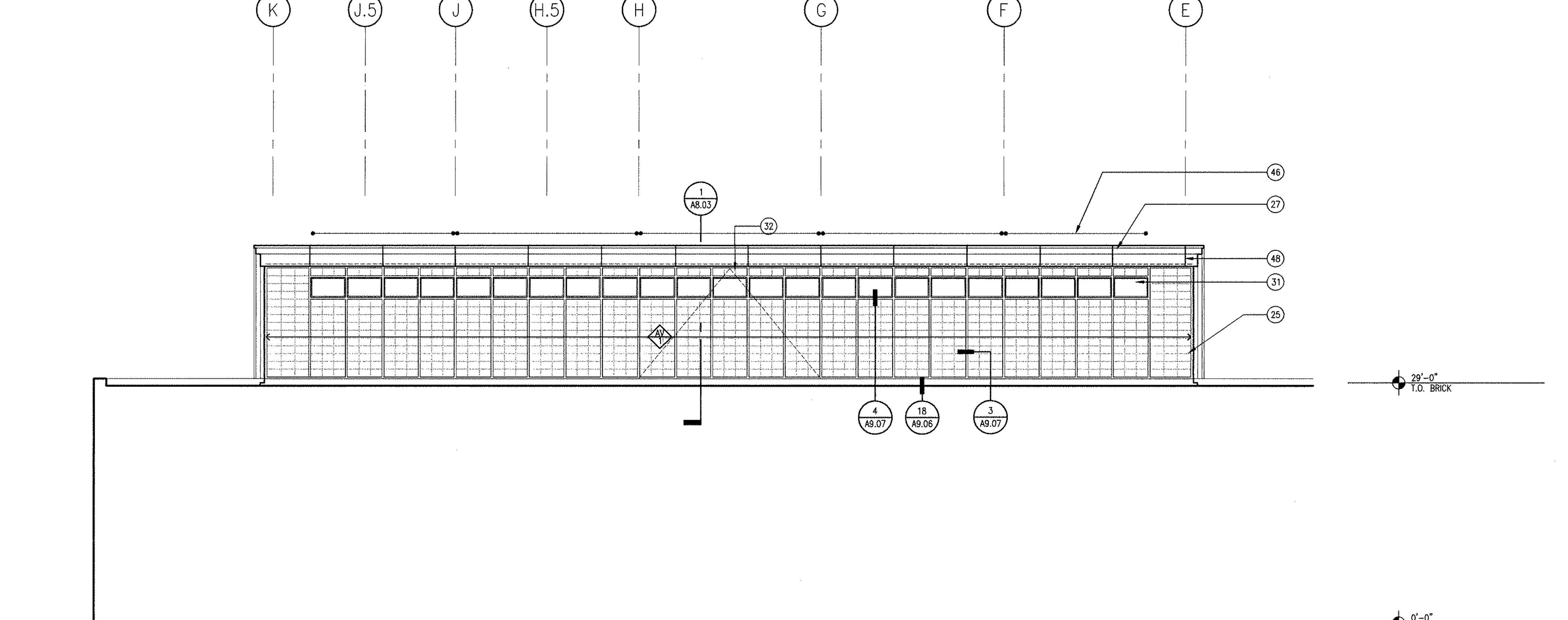
EAST AND WEST LOGGIA ELEVATION, TYP. 4
1/8" = 1' - 0"



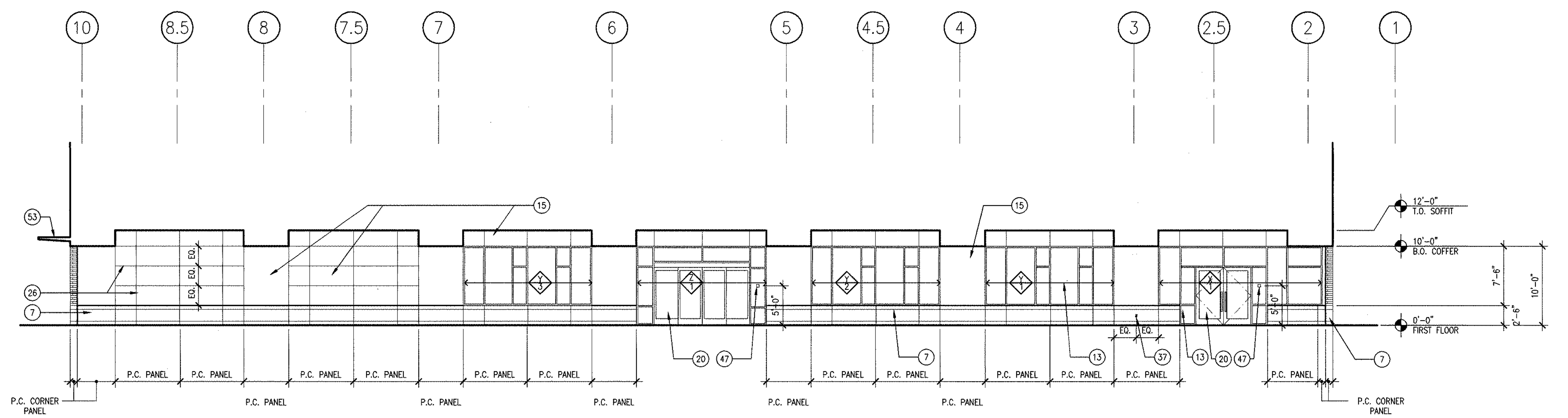
SOUTH LOGGIA ELEVATION 3
1/8" = 1' - 0"



STAIR 3 ENCLOSURE AT ROOF ELEVATION 5
1/8" = 1' - 0"



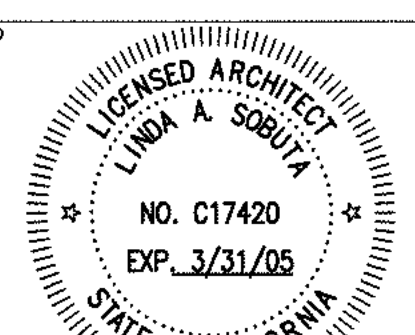
EAST CLERESTORY ELEVATION 2
1/8" = 1' - 0"



NORTH LOGGIA ELEVATION 1
1/8" = 1' - 0"

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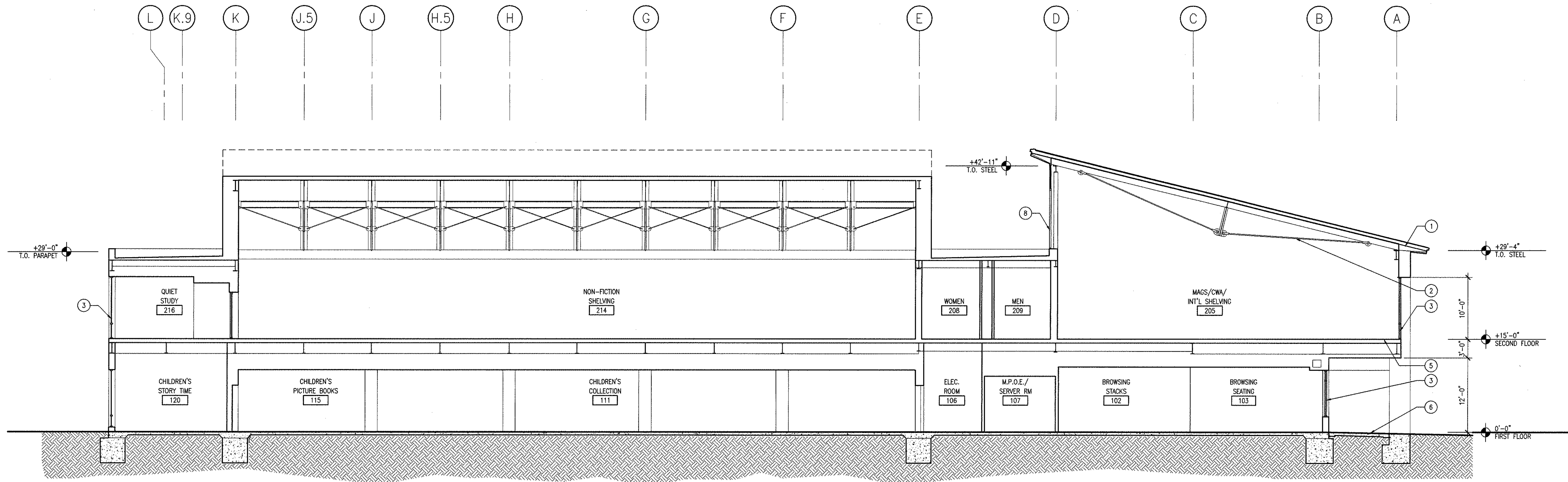


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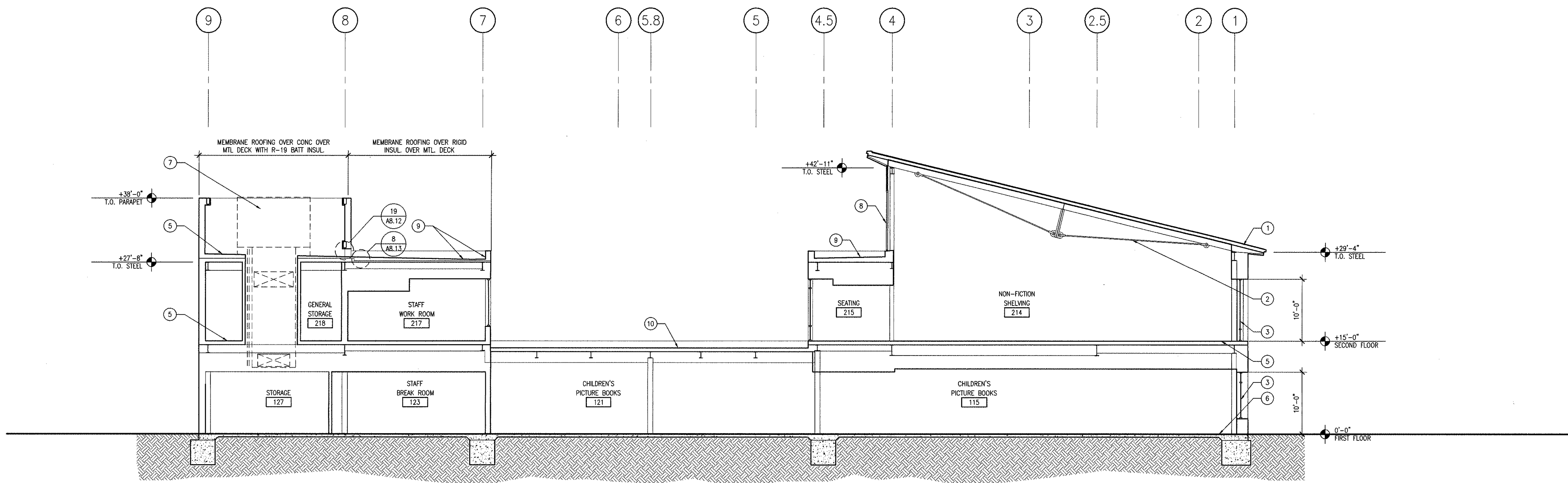
LIBRARY EXTERIOR ELEVATIONS

SCALE: 1/8" = 1'-0" DATE: 2003.04.18
DRAWN BY: GN/LR PROJECT NUMBER: 20114.00
SHEET NUMBER: 10

A3.06



BUILDING SECTION 2
1/8" = 1' - 0"



BUILDING SECTION 1
1/8" = 1' - 0"

- KEYNOTES
- 1 STANDING SEAM MTL ROOFING OVER ROOFING UNDERLAYMENT OVER RIGID INSULATION OVER VAPOR BARRIER OVER ACOUSTICAL MTL DECKING, S.S.D. FOR METAL DECKING.
 - 2 STL TRUSS, PTD.
 - 3 ALUMINUM WINDOW WALL
 - 4 ALUMINUM WINDOW
 - 5 CONC. OVER MTL DECK OVER STRUCTURAL STL FRAMING, S.S.D.
 - 6 CONC. SLAB ON GRADE, S.S.D.
 - 7 MECHANICAL EQUIPMENT, S.M.D.
 - 8 TRANSLUCENT CLERESTORY
 - 9 BUILT-UP BITUMINOUS ROOFING W/ MINERAL CAP SHEET
 - 10 BUILT-UP BITUMINOUS ROOFING W/ AGGREGATE SURFACING

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Associates
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stamp

ISSUE

BID SET

SHEET 05b

LIBRARY
BUILDING
SECTIONS

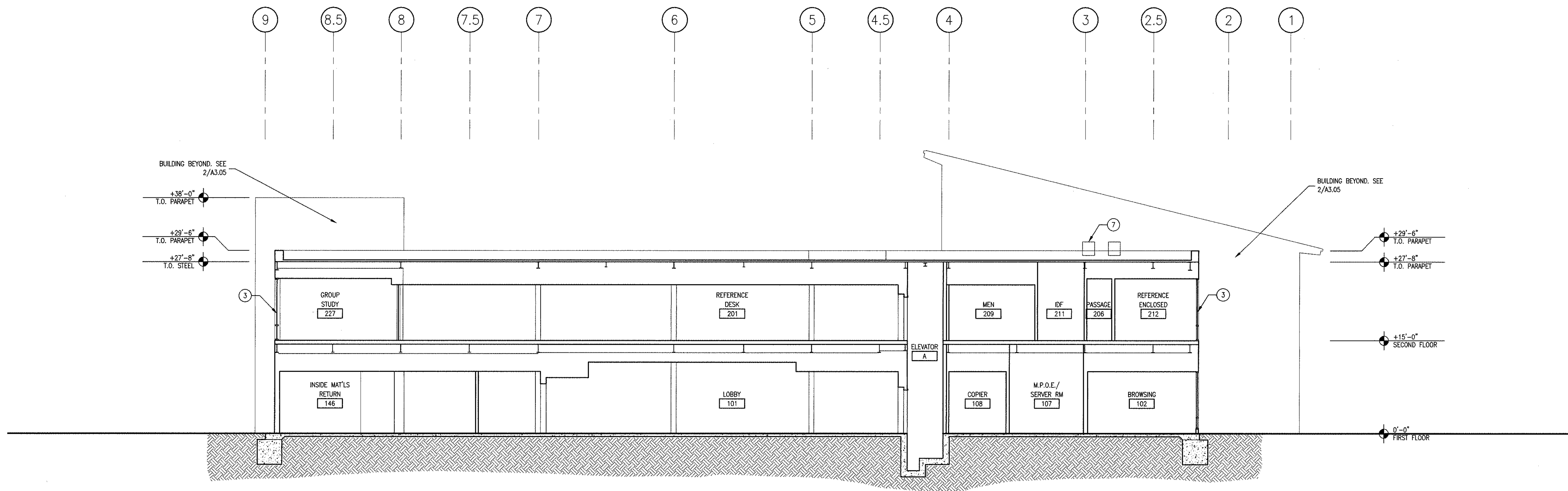
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1/8" = 1' - 0"

drawn by LR project number 2003.04.18

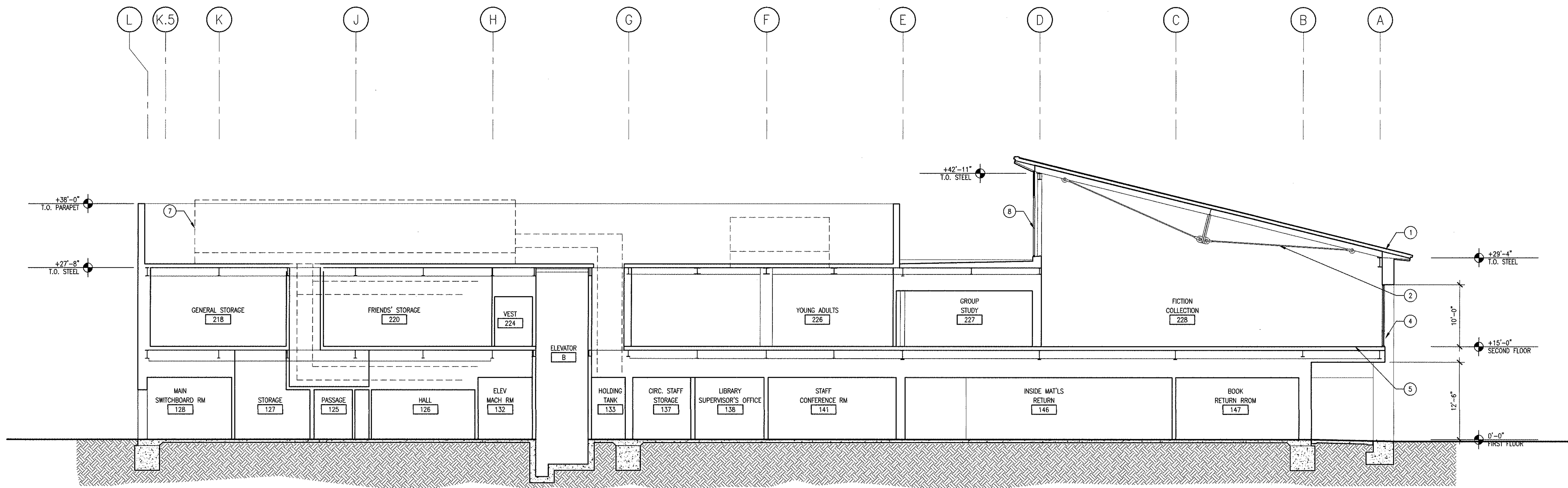
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BUILDING SECTION 2
1/8" = 1' - 0"



BUILDING SECTION 1
1/8" = 1' - 0"

- KEYNOTES
- 1 STANDING SEAM MTL ROOFING OVER ROOFING UNDERLAYMENT OVER RIGID INSULATION OVER VAPOR BARRIER OVER ACOUSTICAL MTL DECKING. S.S.D. FOR METAL DECKING.
 - 2 STL TRUSS, PTD.
 - 3 ALUMINUM WINDOW WALL
 - 4 ALUMINUM WINDOW
 - 5 CONC. OVER MTL DECK OVER STRUCTURAL STL FRAMING. S.S.D.
 - 6 CONC. SLAB ON GRADE. S.S.D.
 - 7 MECHANICAL EQUIPMENT, S.M.D.
 - 8 TRANSLUCENT CLERESTORY
 - 9 BUILT-UP BITUMINOUS ROOFING W/ MINERAL CAP SHEET
 - 10 BUILT-UP BITUMINOUS ROOFING W/ AGGREGATE SURFACING

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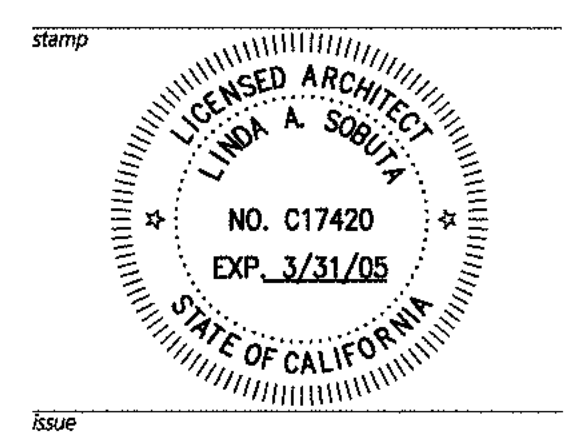
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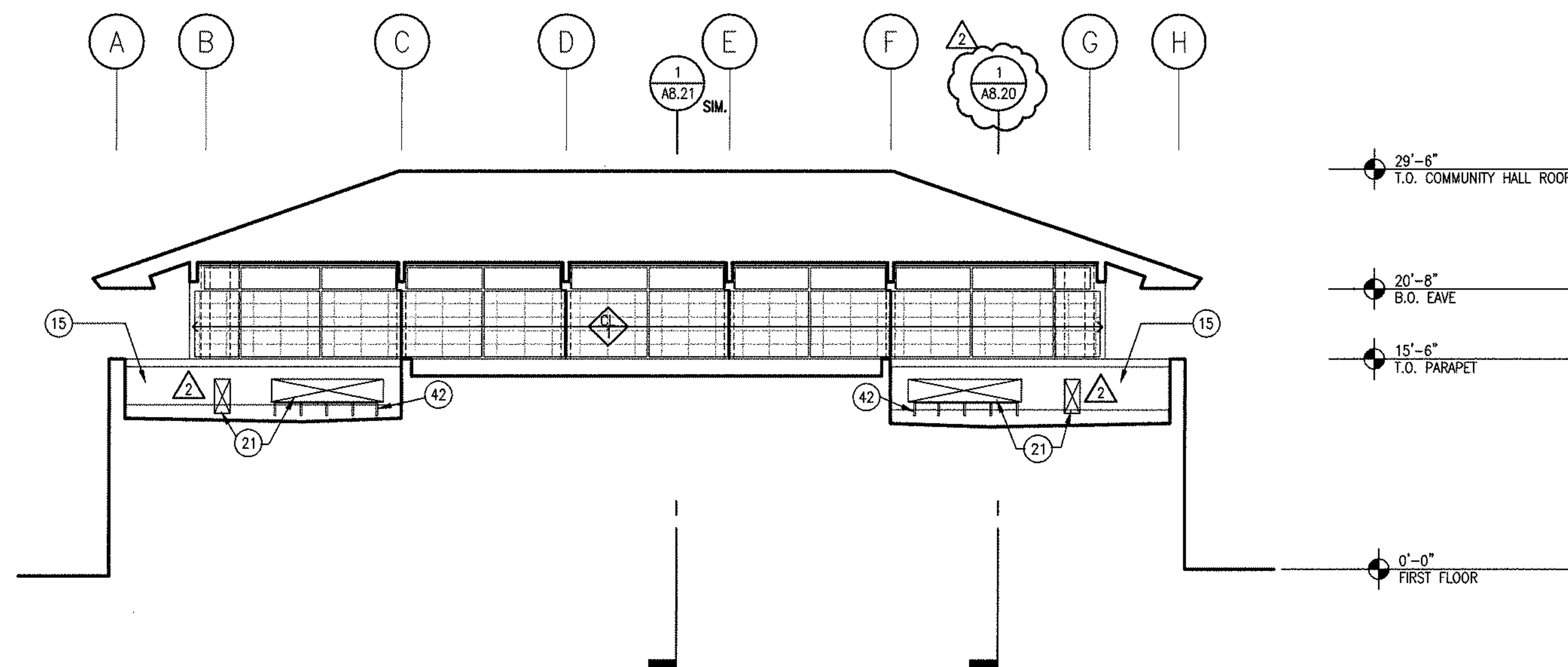
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LIBRARY
BUILDING
SECTIONS

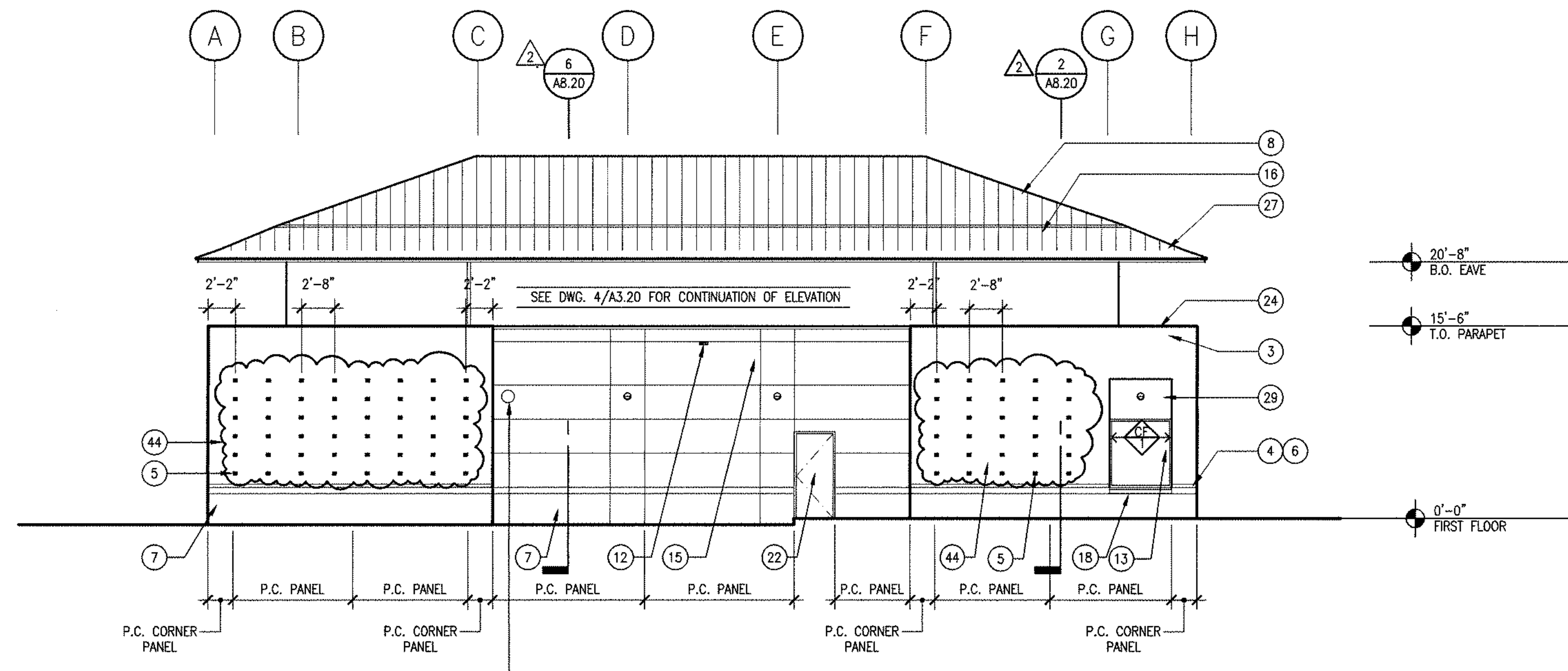
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A3.11

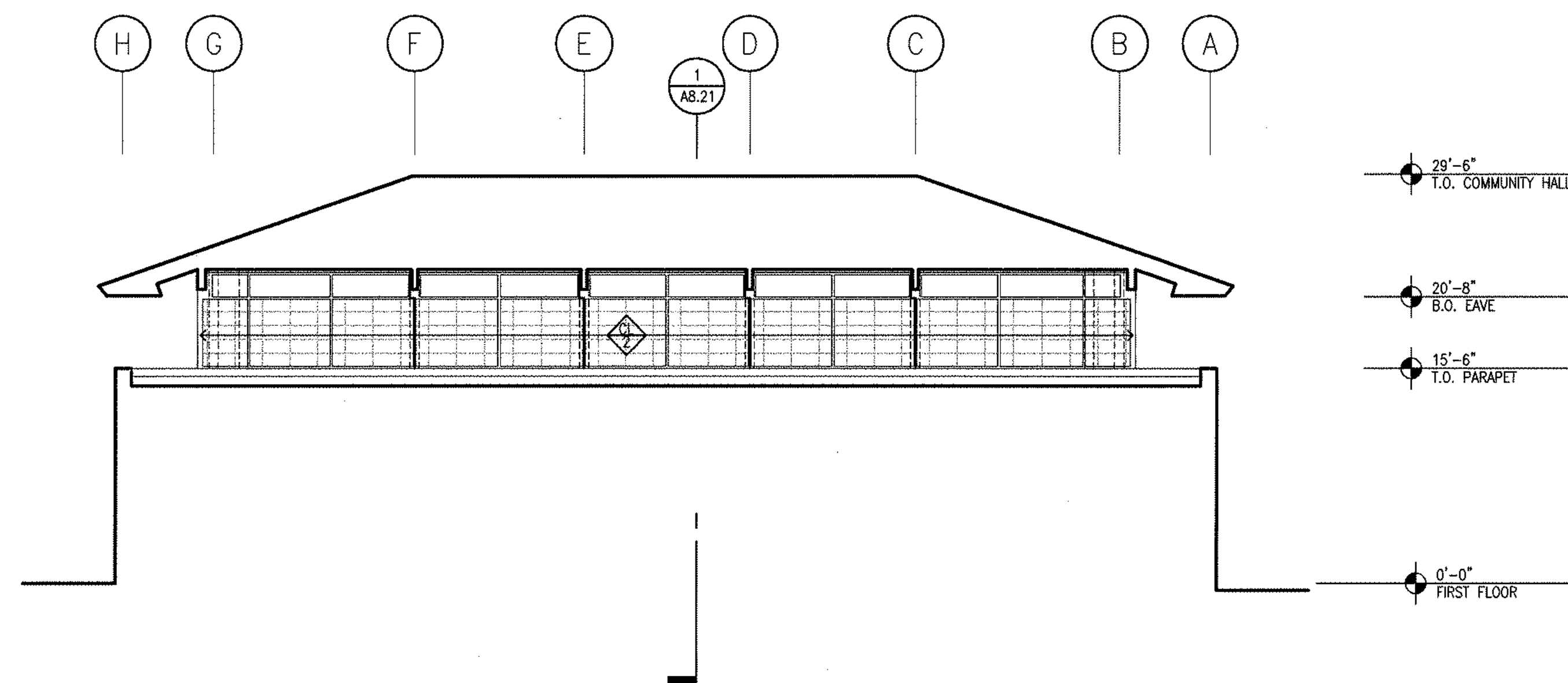
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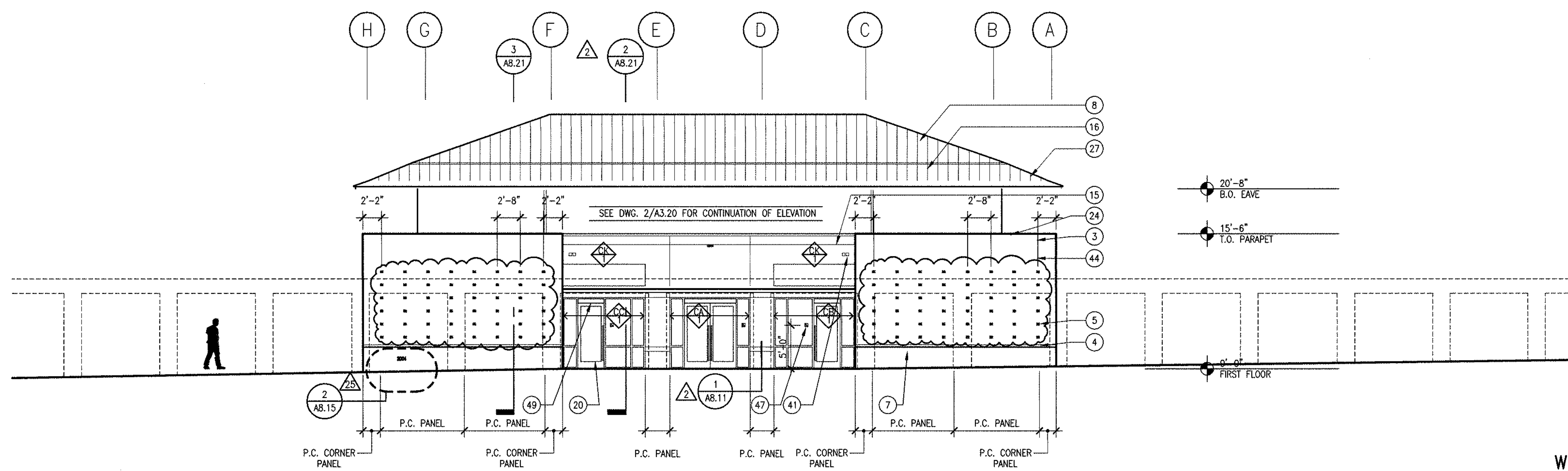
EAST CLERESTORY ELEVATION
1/8" = 1' - 0" 4



EAST ELEVATION
1/8" = 1' - 0" 3



WEST CLERESTORY ELEVATION
1/8" = 1' - 0" 2



WEST ELEVATION
1/8" = 1' - 0" 1

- GENERAL NOTES
- FOR WINDOW AND LOUVER TYPES, SEE SCHEDULE ON DWG. A9.05
 - FOR BRICK PATTERN GUIDELINES, SEE DETAILS 1-4/ AB.10
 - FOR TYPICAL MORTAR JOINT DETAIL, SEE 5/ AB.10
 - FOR TYPICAL BRICK ANCHOR, SEE 10/ AB.11
 - FOR EXTERIOR SYSTEMS MOCK-UPS, SEE 1, 1A AND 1B/AS.22
 - ALL BRICK VENEER AT LIBRARY IS COLOR 1, U.O.N. FOR COMMUNITY HALL BRICK COLOR, SEE SPECIFICATIONS.
 - COLORS: PC1: PAINT COLOR TO MATCH ALLUM. WINDOW COLOR
PC2: PAINT COLOR TO MATCH MFR. STANDING SEAM ROOF COLOR
PC3: [PORTLAND CEMENT PLASTER]
PC4: [PORTLAND CEMENT PLASTER, COLOR TO MATCH BRICK COLOR 1]

- KEYNOTES
- NORMAN BRICK, 1/3 RUNNING BOND
 - NORMAN BRICK, STACKED BOND
 - NORMAN BRICK, SOLDIER BOND
 - BRICK, HEADER COURSE
 - BRICK, PROJECTED
 - BRICK, RECESSED
 - PRECAST CONC. BASE, INTEGRAL COLOR, SANDBLAST FIN.
 - MANUFACTURED STANDING SEAM ROOF
 - EXTERIOR CEMENT PLASTER, PAINTED, COLOR: PC4
 - EXPOSED STEEL, PAINTED, COLOR: PC2
 - GALV PIPE RAIN WATER LEADER, PAINTED, COLOR: PC2
 - G.S.M. SCUPPER, PAINTED, COLOR: PC2
 - ALUMINUM WINDOW WALL
 - OPERABLE WINDOW
 - EXTERIOR CEMENT PLASTER, PAINTED, COLOR: PC3
 - EXPANSION JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
 - GLAZED ENTRY DOOR
 - GALI WALL OPENING FOR MECH. DUCT, S.S.D.
 - HOLLOW METAL DOOR, PAINTED, COLOR: PC3, U.O.N.
 - ACCESSIBLE TOILET ROOM SIGNAGE
 - PREFINISHED SHT. MTL. PARAPET CAP, MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - TRANSLUCENT CLERESTORY
 - 1/4" ALUM REVEAL TYP., SEE DETAIL 3/AB.11
 - PREFINISHED SHT. MTL. FASCIA, MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - S.S.T. BOOK DEPOSITORY, TYP OF 6
 - PREFINISHED METAL WALL PANEL
 - PRECAST CONCRETE BENCH
 - TRANSLUCENT CLERESTORY
 - BRACE FRAME BEYOND, S.S.D.
 - ROOF STAR BEYOND, SEE A2.12
 - SECURITY SIREN/ OCTV, S.T.D.
 - OUTLET, S.E.D.
 - HORN/ STROBE, SEE E2.10
 - HOSE BIB, S.P.D.
 - CARD READER + 42" A.F.F.
 - INTERCOM/BELL + 42" A.F.F.
 - S.S.T. DOOR ACTUATOR PUSH PLATE
 - 16 GA. STAINLESS STL. COVER PLATE
 - WALL MOUNTED MECH. SUPPORT BRACKETS, GALV. STEEL
 - STAINLESS STL. LETTERS, N.I.C.
 - NORMAN BRICK, FLEMISH BOND
 - EXTERIOR LIGHT, S.E.D.
 - SOLAR SHADE AT VISION GLASS
 - ENTRY DECAL: INTERNATIONAL SYMBOL OF ACCESSIBILITY
 - SPLICE JOINT, SEE DETAIL 5/AB.13
 - PREFINISHED ALUM FASCIA AT DOOR OPERATOR
 - DOOR OPERATOR PUSH PLATE-SEE DOOR SCHEDULE
 - SIGN: MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE: GENERAL NOTE #10.
 - CANDPY, SEE 3/AB.06, COLOR: PC2

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2003.05.30 ADDENDUM NO. 2

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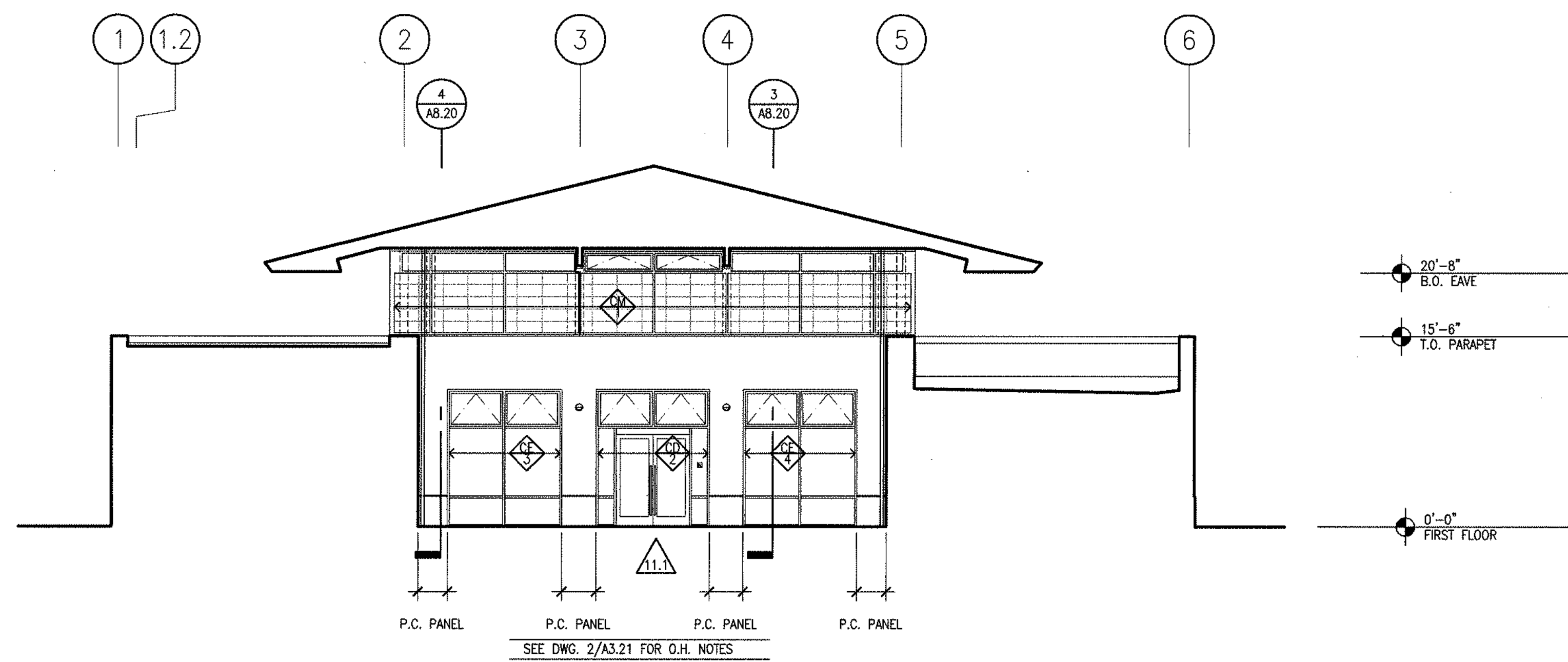
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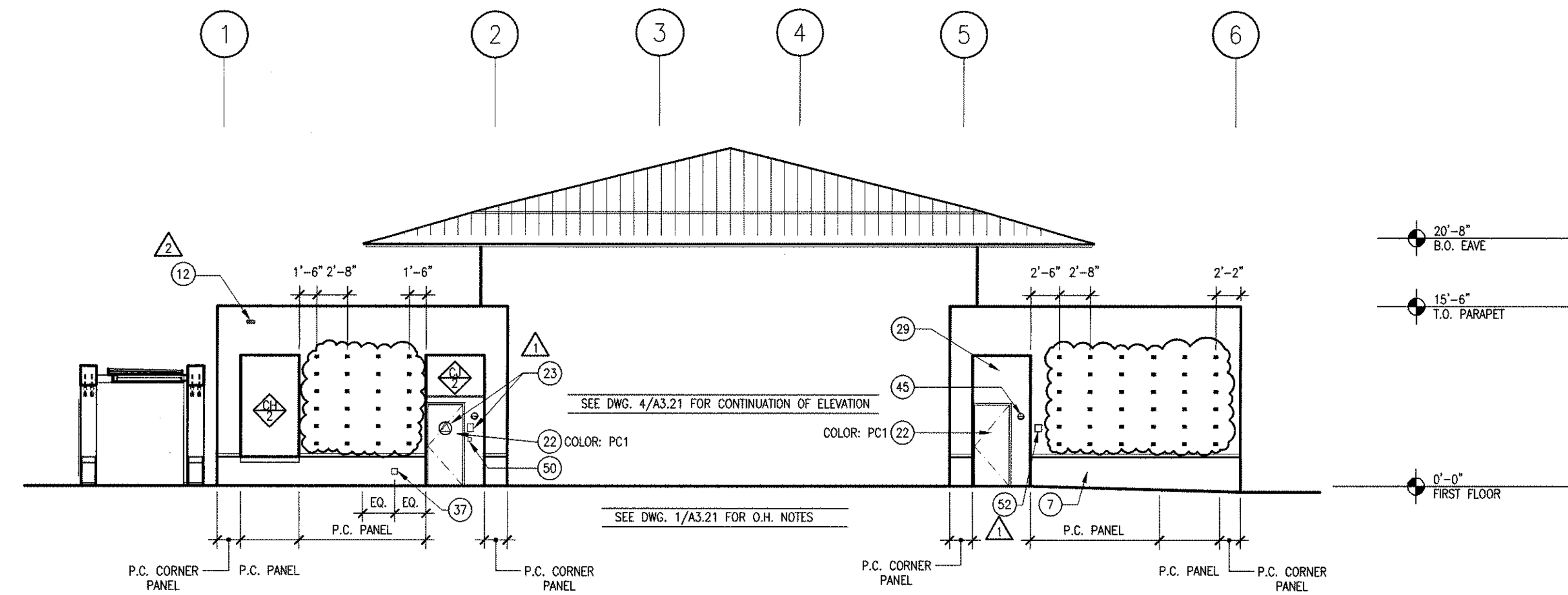
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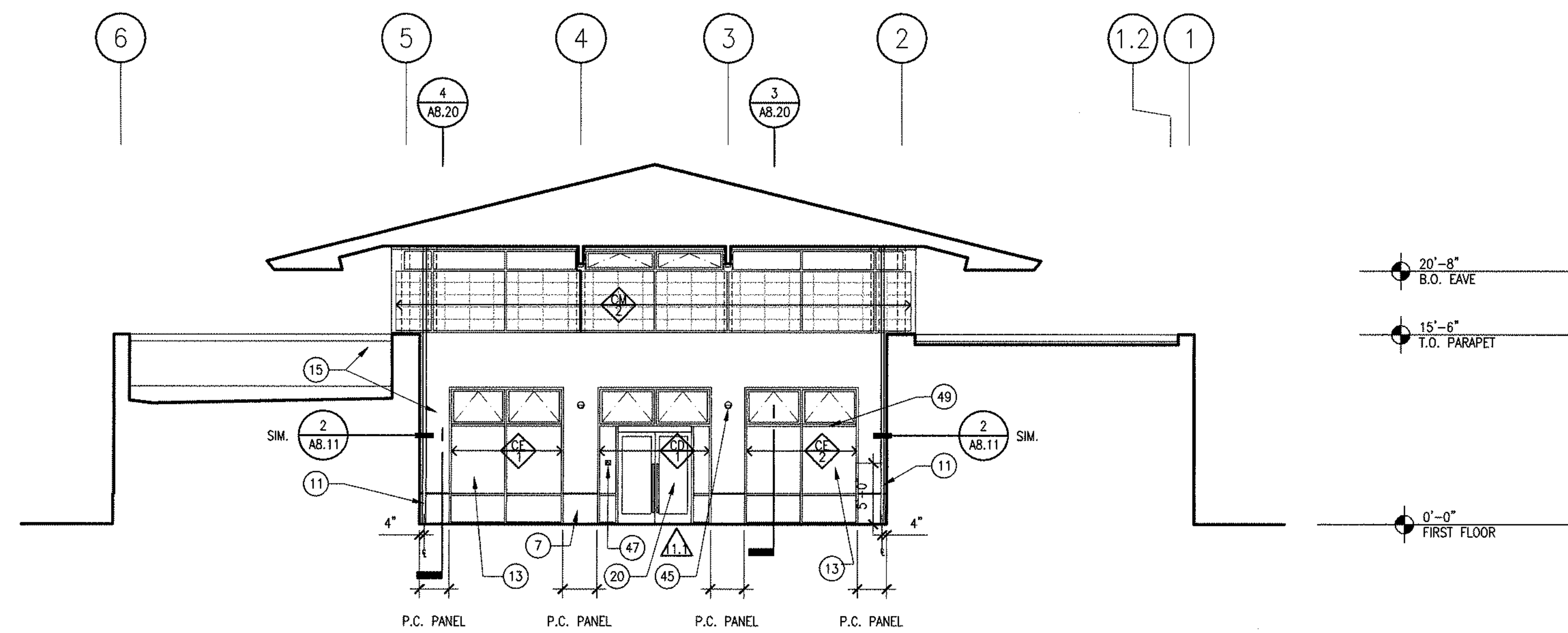
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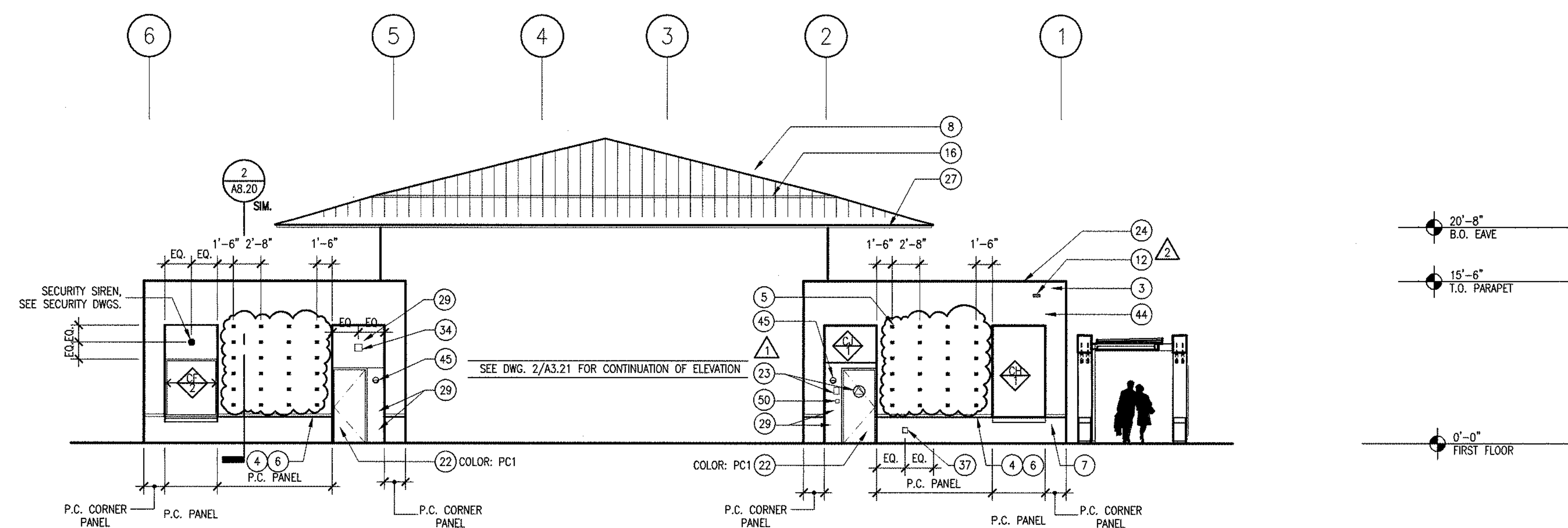
SOUTH ELEVATION 4



SOUTH ELEVATION 3



NORTH ELEVATION 2



NORTH ELEVATION 1

- GENERAL NOTES
- FOR WINDOW AND LOUVER TYPES, SEE SCHEDULE ON DWG. AB.05
 - FOR BRICK PATTERN GUIDELINES, SEE DETAILS 1-4/ AB.10
 - FOR TYPICAL MORTAR JOINT DETAIL, SEE 5/ AB.10
 - FOR TYPICAL BRICK ANCHOR, SEE 10/ AB.11
 - FOR EXTERIOR SYSTEMS MOCK-UPS, SEE 1, 1A AND 1B/A3.22
 - ALL BRICK VENEER AT LIBRARY IS COLOR 1, U.O.N. FOR COMMUNITY HALL BRICK COLOR, SEE SPECIFICATIONS.
 - COLORS: PC1: PAINT COLOR TO MATCH ALUM. WINDOW COLOR
PC2: PAINT COLOR TO MATCH MFR. STANDING SEAM ROOF COLOR
PC3: [PORTLAND CEMENT PLASTER]
PC4: [PORTLAND CEMENT PLASTER, COLOR TO MATCH BRICK COLOR 1]

- KEYNOTES
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 - NORMAN BRICK, STACKED BOND
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 - SIGN; MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE; GENERAL NOTE #10.
 - CANOPY, SEE 3/AB.06; COLOR: PC2

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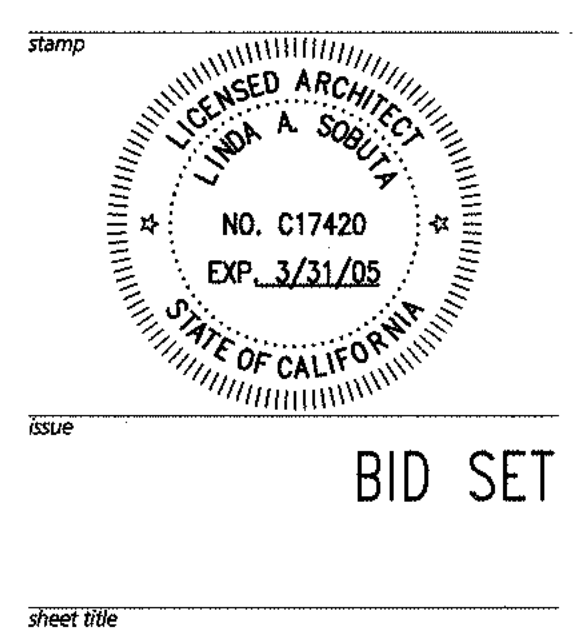
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revisions	date	description
△	2003.05.07	ADDENDUM NO. 1
△	2003.05.30	ADDENDUM NO. 2
△	2003.12.19	CCD NO. 9.1

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COMMUNITY HALL
EXTERIOR ELEVATIONS

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drawn by GN/LR project number 20114.00
sheet number

A3.21

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- GENERAL NOTES**
- FOR WINDOW AND LOUVER TYPES, SEE SCHEDULE ON DWG. A9.05
 - FOR BRICK PATTERN GUIDELINES, SEE DETAILS 1-4/ AB.10
 - FOR TYPICAL MORTAR JOINT DETAIL, SEE 5/ AB.10
 - FOR TYPICAL BRICK ANCHOR, SEE 10/ AB.11
 - FOR EXTERIOR SYSTEMS MOCK-UPS, SEE 1, 1A AND 1B/AB.22
 - ALL BRICK VENEER AT LIBRARY IS COLOR 1, U.O.N. FOR COMMUNITY HALL BRICK COLOR, SEE SPECIFICATIONS.
 - COLORS: PC1: PAINT COLOR TO MATCH ALUM. WINDOW COLOR
PC2: PAINT COLOR TO MATCH MFR. STANDING SEAM ROOF COLOR
PC3: [PORTLAND CEMENT PLASTER]
PC4: [PORTLAND CEMENT PLASTER, COLOR TO MATCH BRICK COLOR 1]

- KEYNOTES**
- NORMAN BRICK, 1/3 RUNNING BOND
 - NORMAN BRICK, STACKED BOND
 - NORMAN BRICK, SOLDIER BOND
 - BRICK, HEADER COURSE
 - BRICK, PROJECTED
 - BRICK, RECESSED
 - PRECAST CONC. BASE, INTEGRAL COLOR, SANDBLAST FIN.
 - MANUFACTURED STANDING SEAM ROOF
 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC4
 - EXPOSED STEEL, PAINTED; COLOR: PC2
 - GALV PIPE RAIN WATER LEADER, PAINTED; COLOR: PC2
 - G.S.M. SCUPPER, PAINTED; COLOR: PC2
 - ALUMINUM WINDOW WALL
 - OPERABLE WINDOW
 - EXTERIOR CEMENT PLASTER, PAINTED; COLOR: PC3
 - INTEGRAL GUTTER
 - EXPANSION JOINT
 - PRECAST CONC. SILL, INTEGRAL COLOR, SANDBLAST FIN.
 - TRANSLUCENT GLASS
 - GLAZED ENTRY DOOR
 - CMU WALL OPENING FOR MECH. DUCT, S.S.D.
 - HOLLOW METAL DOOR, PAINTED; COLOR: PC3, U.O.N.
 - ACCESSIBLE TOILET ROOM SIGNAGE
 - PREFINISHED SHT. MTL. PARAPET CAP; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - TRANSLUCENT CLERESTORY
 - 1/4" ALUM REVEAL TYP.; SEE DETAIL 3/AB.11
 - PREFINISHED SHT. MTL. FASCIA; MATERIAL AND COLOR TO MATCH STANDING SEAM ROOF
 - S.S.T. BOOK DEPOSITORY, TYP OF 6
 - PREFINISHED METAL WALL PANEL
 - PRECAST CONCRETE BENCH
 - TRANSLUCENT CLERESTORY
 - BRACE FRAME BEYOND, S.S.D.
 - ROOF STAR BEYOND, SEE A2.12
 - SECURITY SIREN/ CCTV, S.T.D.
 - OUTLET, S.E.D.
 - HORN/ STROBE, SEE E2.10
 - HOSE BIB, S.P.D.
 - CARD READER @ + 42" A.F.F.
 - INTERCOM/BELL @ + 42" A.F.F.
 - S.S.T. DOOR ACTUATOR PUSH PLATE
 - 16 GA. STAINLESS STL. COVER PLATE
 - WALL MOUNTED MECH. SUPPORT BRACKETS; GALV. STEEL
 - STAINLESS STL. LETTERS, N.I.C.
 - NORMAN BRICK, FLEMISH BOND
 - EXTERIOR LIGHT, S.E.D.
 - SOLAR SHADE AT VISION GLASS
 - ENTRY DECAL: INTERNATIONAL SYMBOL OF ACCESSIBILITY
 - SPLICE JOINT, SEE DETAIL 5/AB.13
 - PREFINISHED ALUM FASCIA AT DOOR OPERATOR
 - DOOR OPERATOR PUSH PLATE-SEE DOOR SCHEDULE
 - SIGN; MAXIMUM OCCUPANCY
 - EMERGENCY ACCESS KEY LOCK BOX (KNOX); SEE DOOR SCHEDULE; GENERAL NOTE #10.
 - CANOPY, SEE 3/AB.06; COLOR: PC2

OWNER
City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

ARCHITECT
Sandis Humber Jones
590 Menlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
916 435 2410 F

ARCHITECT
Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

ARCHITECT
Forel/Elsesser Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

ARCHITECT
Flack + Kurtz
405 Howard Street
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ARCHITECT
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www.swmw.com

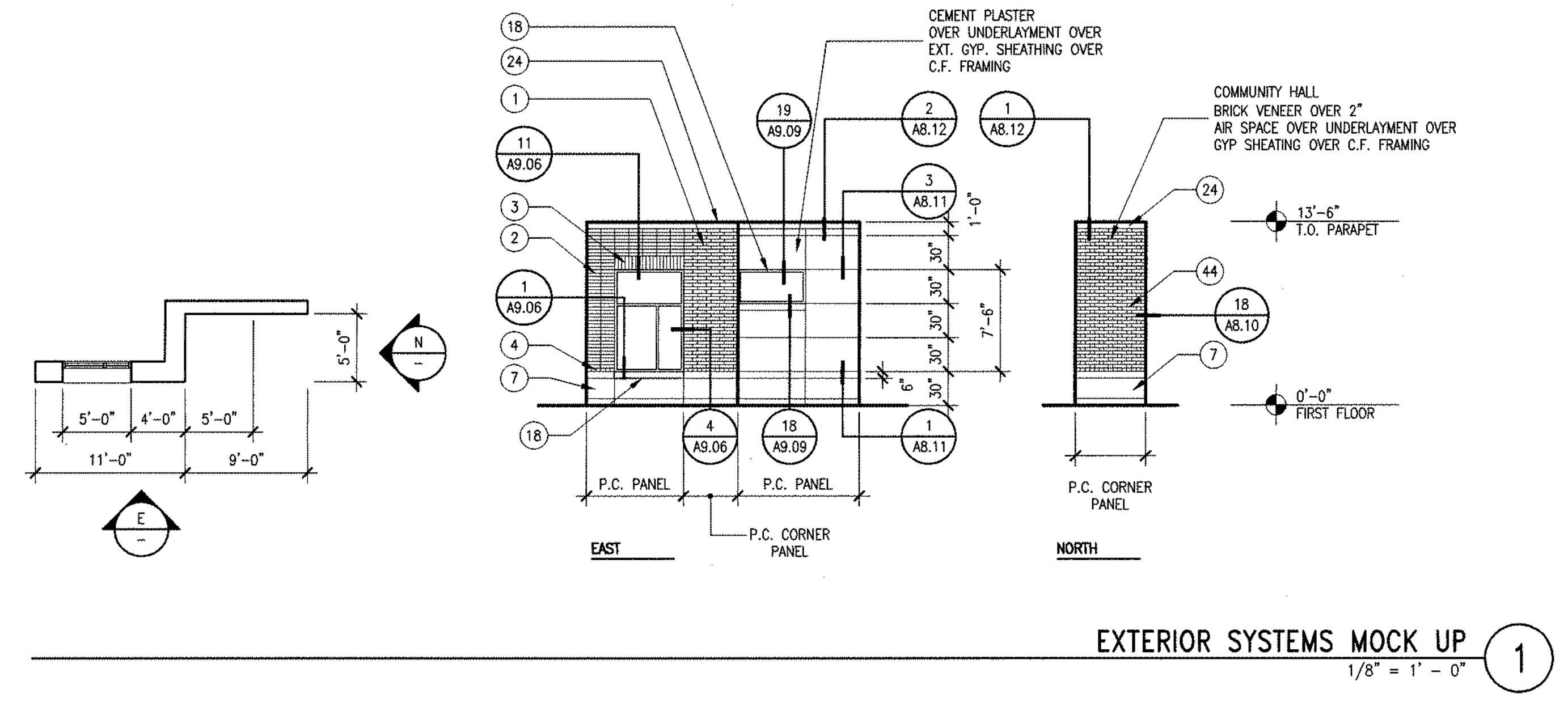
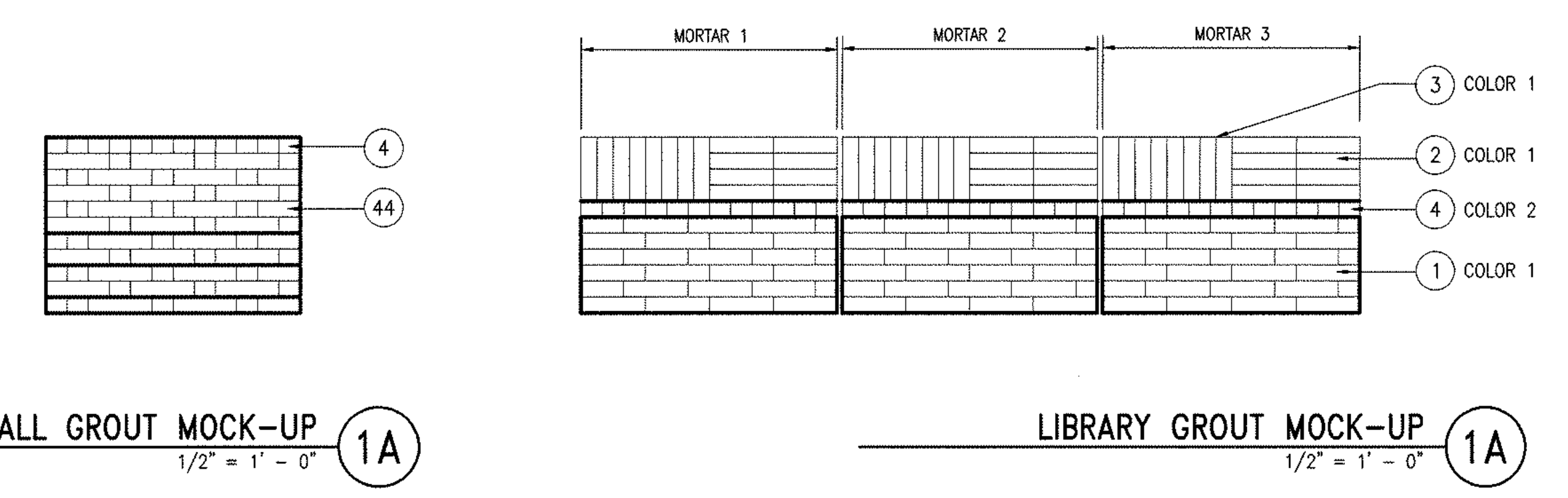
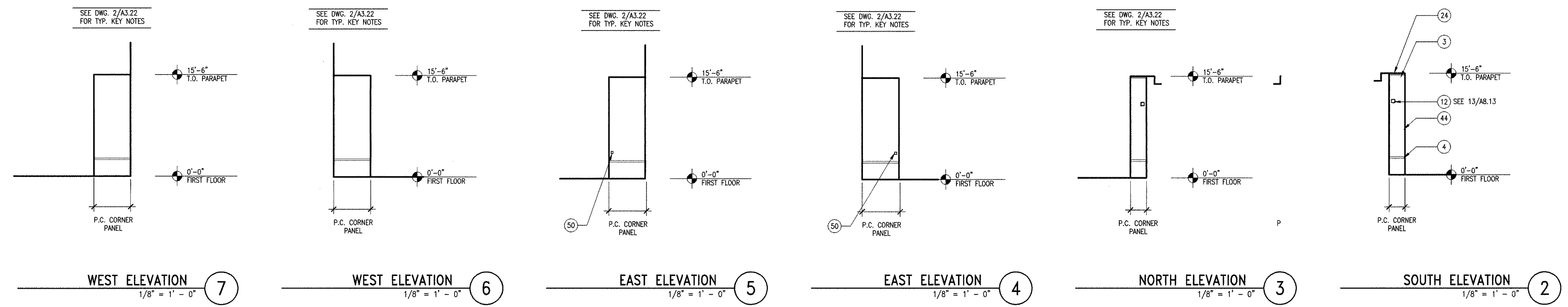
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BID SET

COMMUNITY HALL EXTERIOR ELEVATIONS

SCALE: 1/8" = 1'-0"
DATE: 2003.04.18
DRAWN BY: CN/LR PROJECT NUMBER: 20114.00
SHEET NUMBER: A3.22



MOCK UP IS FOR REVIEW OF INDIVIDUAL SYSTEMS AND SYSTEMS RELATIONSHIPS.

BRICK REVIEW WILL INCLUDE PATTERN, QUALITY, DETAILS, FLASHING AND STEEL HEADER ATTACHMENTS FINISH AND COLOR.

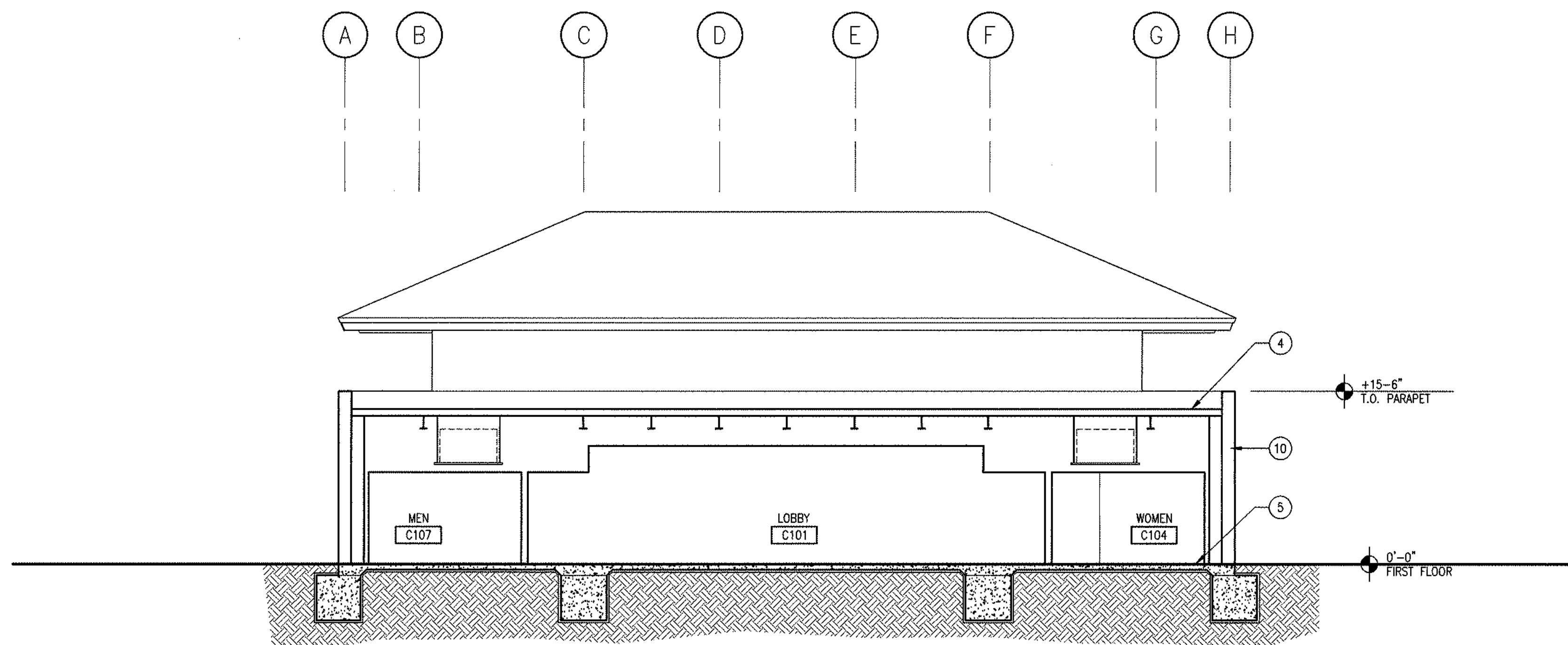
EXTERIOR CEMENT PLASTER REVIEW WILL INCLUDE FINISH, COLOR, JOINTS, TEXTURE AND JOINT DETAILS.

PRECAST CONCRETE BASE AND SILL REVIEW WILL INCLUDE FINISH, COLOR, ATTACHMENT AND CORNER DETAIL.

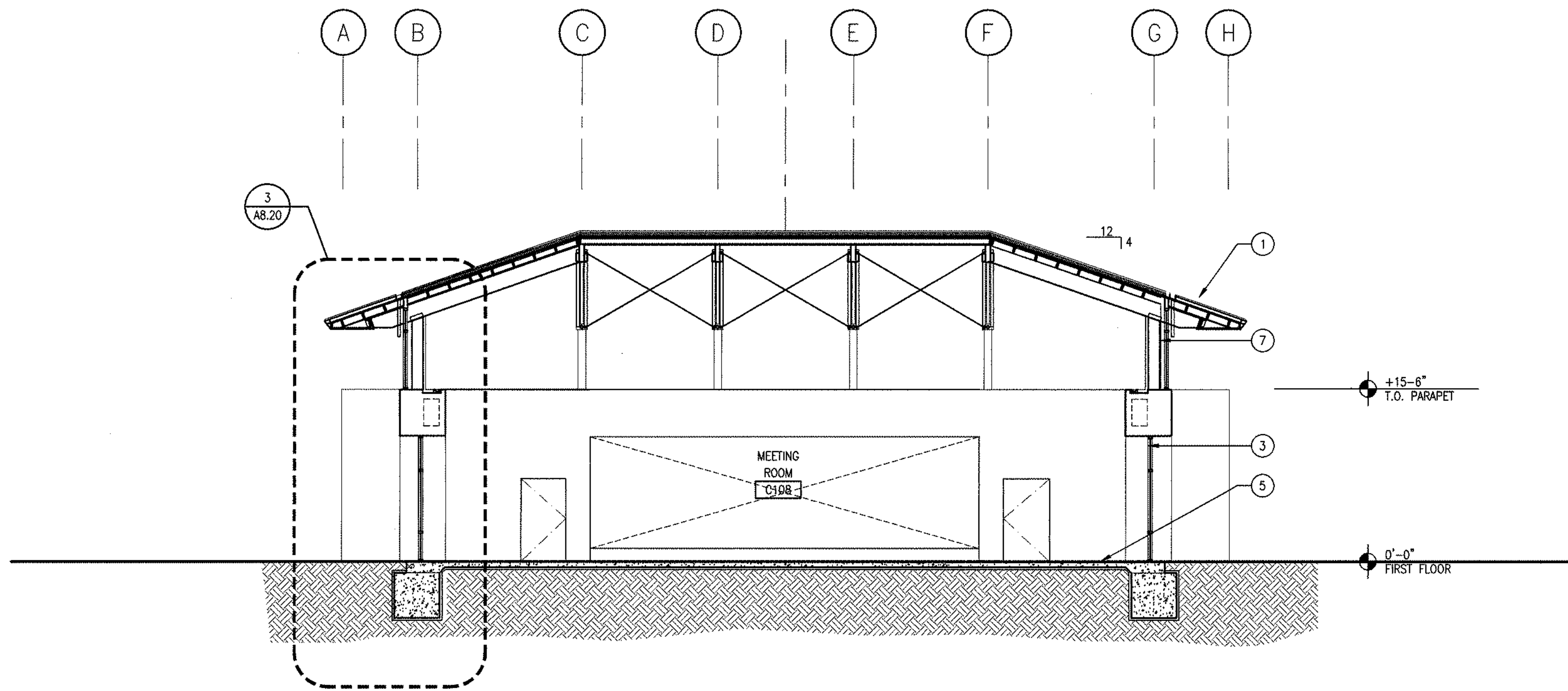
PARAPET FLASHING REVIEW WILL INCLUDE SHAPE, JOINT, COLOR AND QUALITY.

WINDOW SYSTEM REVIEW WILL INCLUDE ALIGNMENTS, COLOR AND RELATIONSHIPS.

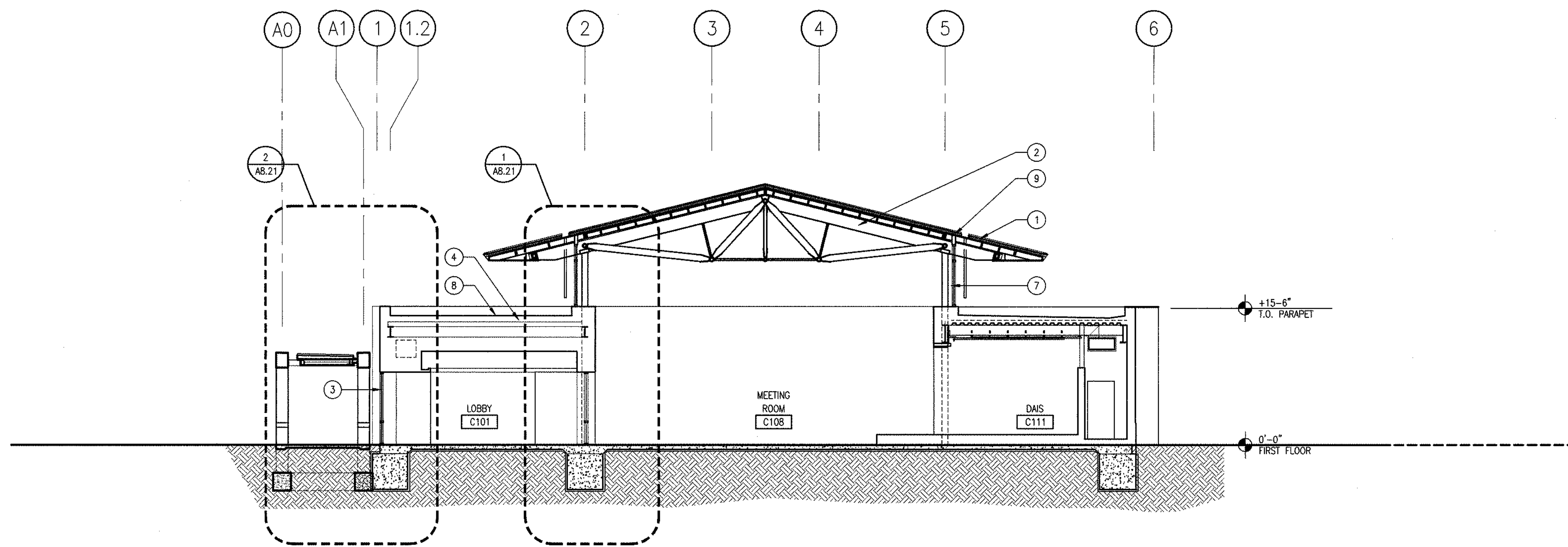
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NORTH/SOUTH SECTION 3
1/8" = 1' - 0"



NORTH/SOUTH SECTION 2
1/8" = 1' - 0"



EAST / WEST SECTION 1
1/8" = 1' - 0"

- KEYNOTES
- 1 STANDING SEAM MTL ROOFING OVER RIGID INSULATION AND METAL ROOFING UNDERLAYMENT PER SECTION 07265 OVER PLYWOOD ON WOOD FRAMING. S.S.D.
 - 2 WOOD TRUSS, S.S.D.
 - 3 ALUMINUM WINDOW WALL
 - 4 CONC. OVER MTL DECK OVER STRUCTURAL STL FRAMING, S.S.D.
 - 5 CONC. SLAB ON GRADE, S.S.D.
 - 6 MECHANICAL EQUIPMENT, S.M.D.
 - 7 TRANSLUCENT CLERESTORY
 - 8 BUILT-UP ROOFING OVER R-19 TAPERED RIGID INSULATION
 - 9 INTEGRAL GUTTER WITH GALV. PIPE R.W.L.
 - 10 BRICK VENEER OVER C.M.U. WALL
 - 11 C.M.U. WALL OPENING FOR MECH DUCT; S.S.D.

SWMM
885 Market Street, 3rd Floor, San Francisco, CA 94103
415.546.0400 T
415.882.7088 F
www.swmm.com

architecture
interiors
planning
graphic design

City of
Cupertino
10360 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Elsesser
Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
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Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
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stamp

ISSUE

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Sheet Size

18"

COMMUNITY
HALL
BUILDING
SECTIONS

SCALE

1/8" = 1' - 0"

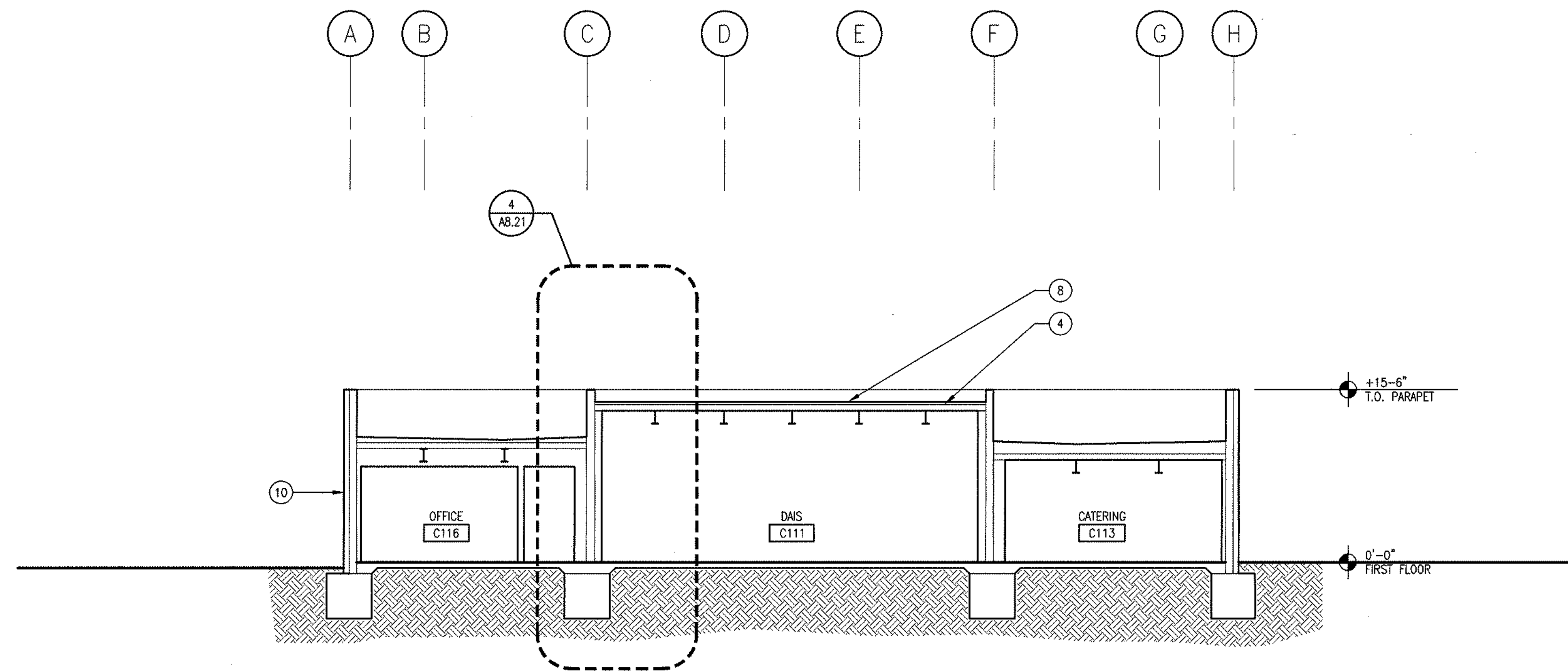
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drawn by GN/LR project number 20114.00

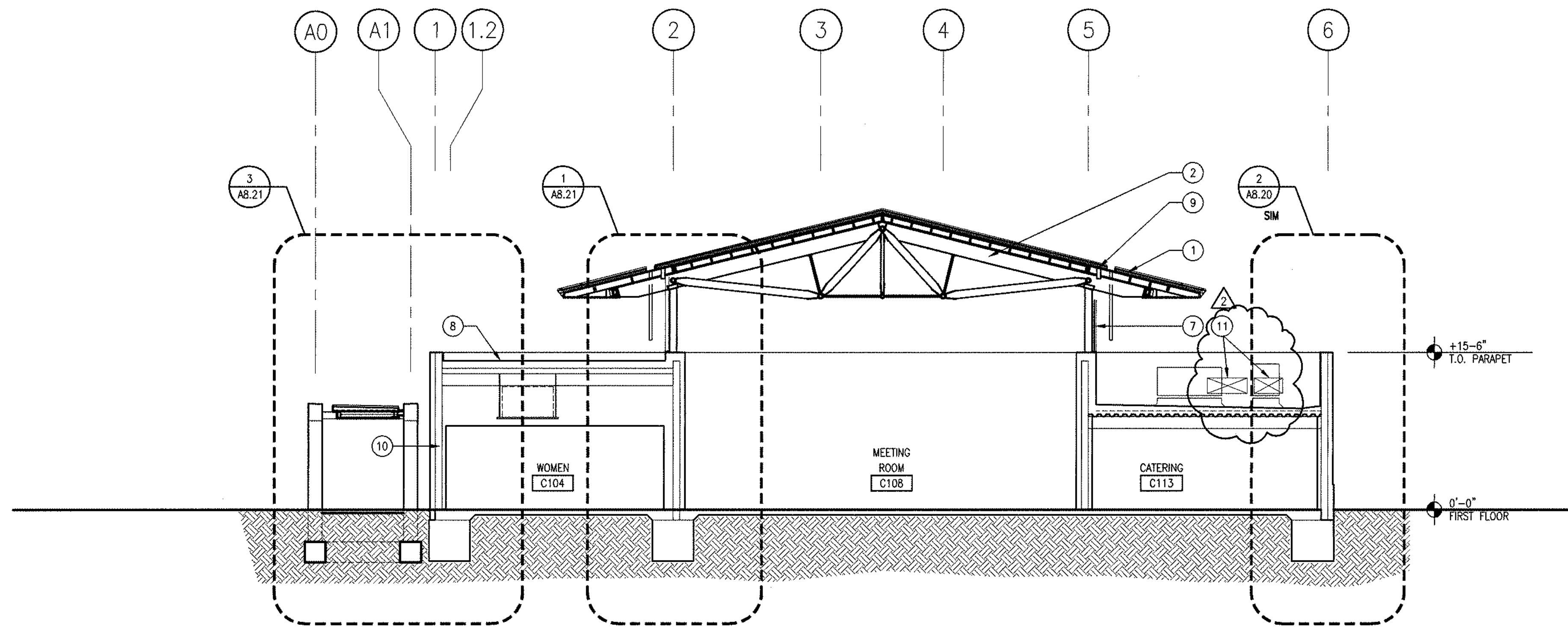
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A3.30

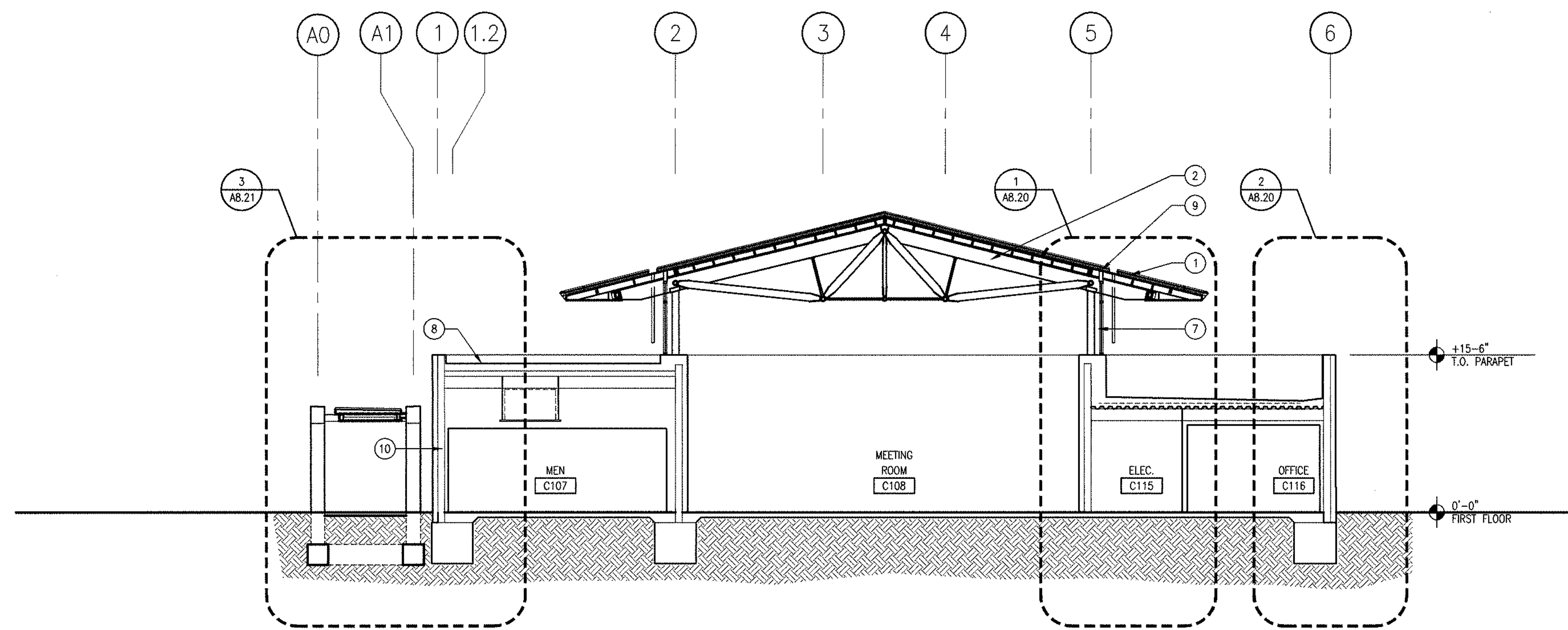
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EAST/ WEST SECTION 2
1/8" = 1' - 0"



EAST / WEST SECTION 1
1/8" = 1' - 0"

- KEYNOTES
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architecture
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Cupertino
10300 Torre Avenue
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408 777 3354 T
408 777 3333 F

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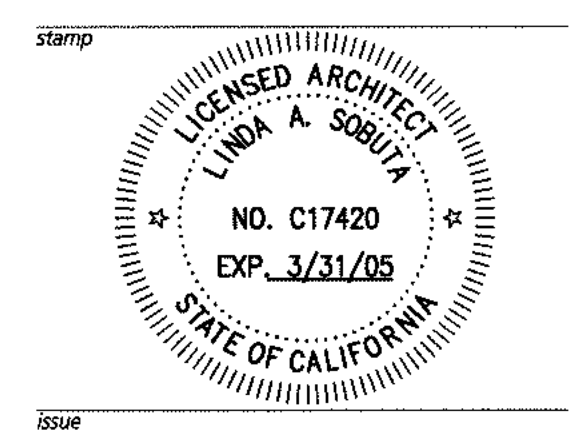
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Suite 500
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415 433 5311 F

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415 495 4085 T
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2003.05.30 ADDENDUM NO. 2

11-29-04 Updated
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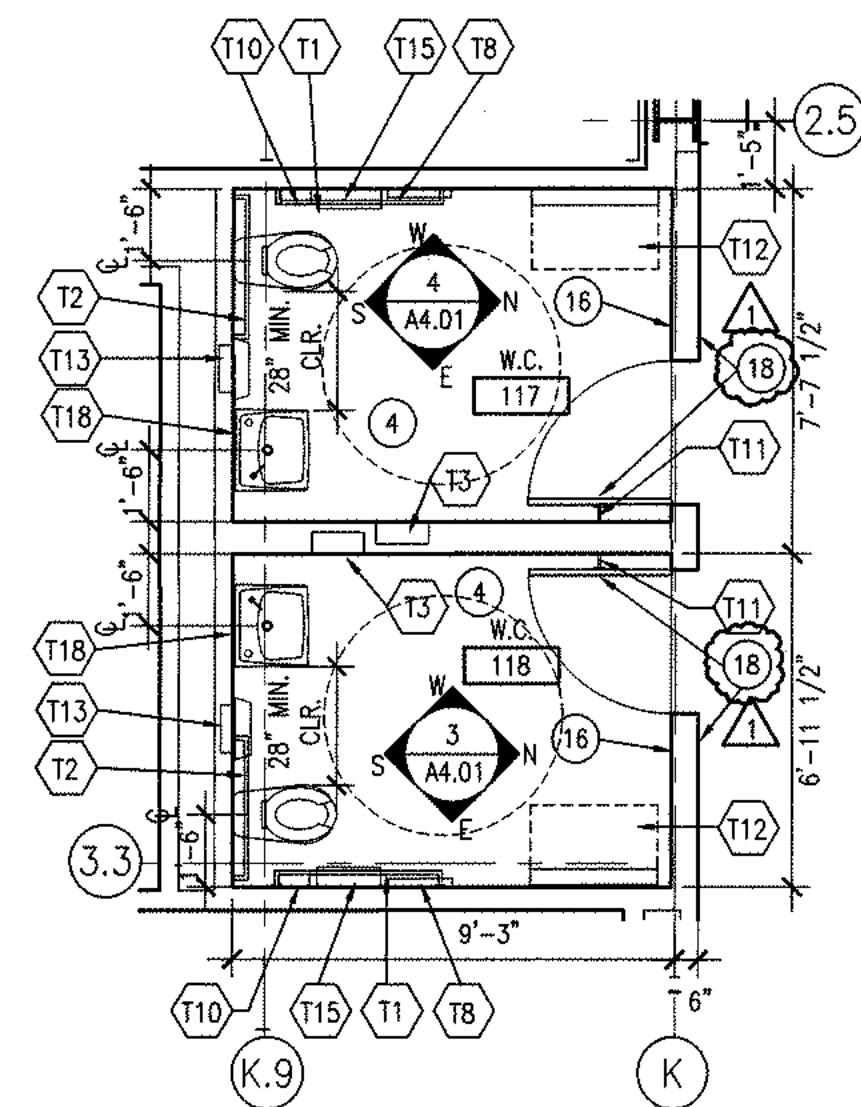
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COMMUNITY
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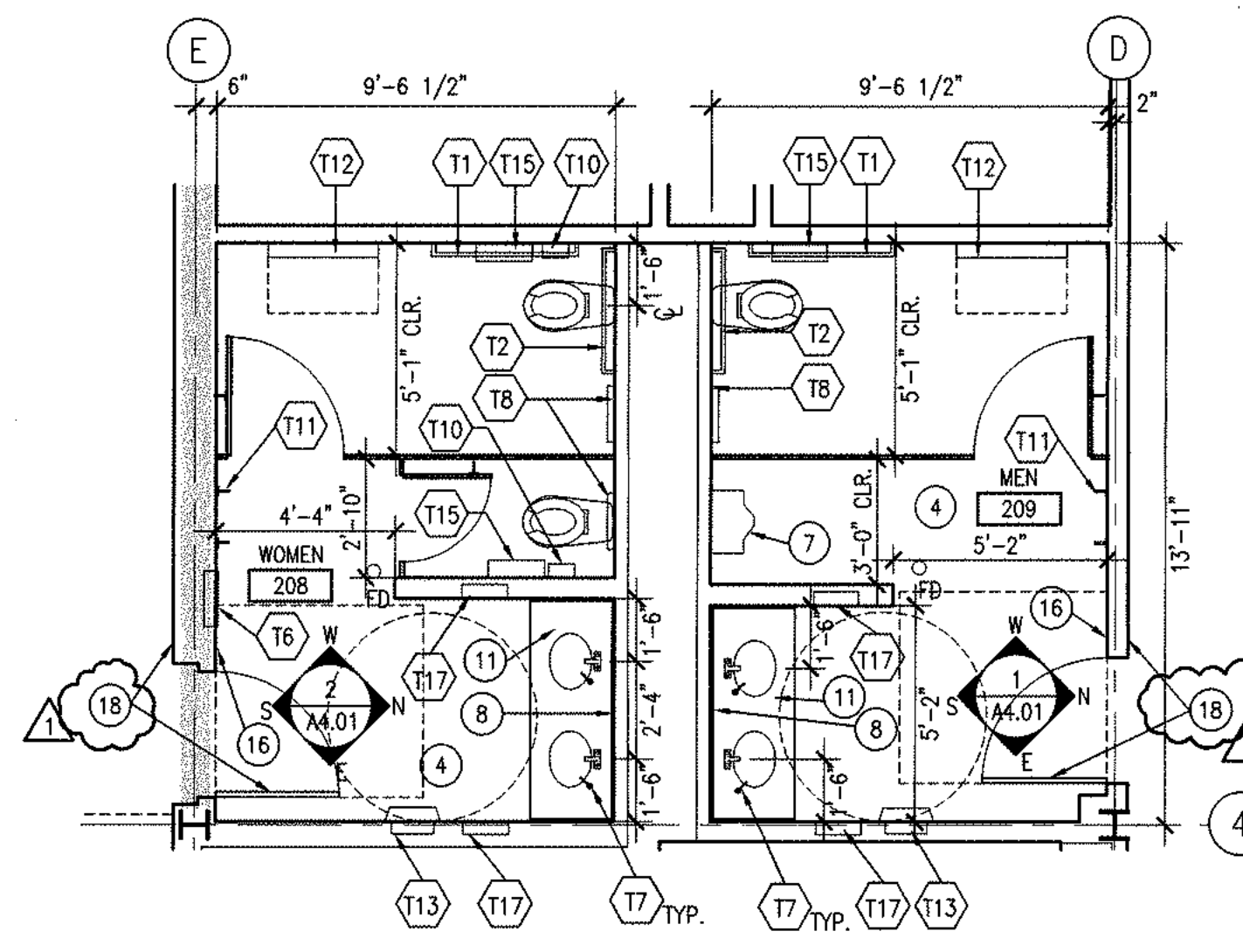
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PROJECT NUMBER: 20114.00

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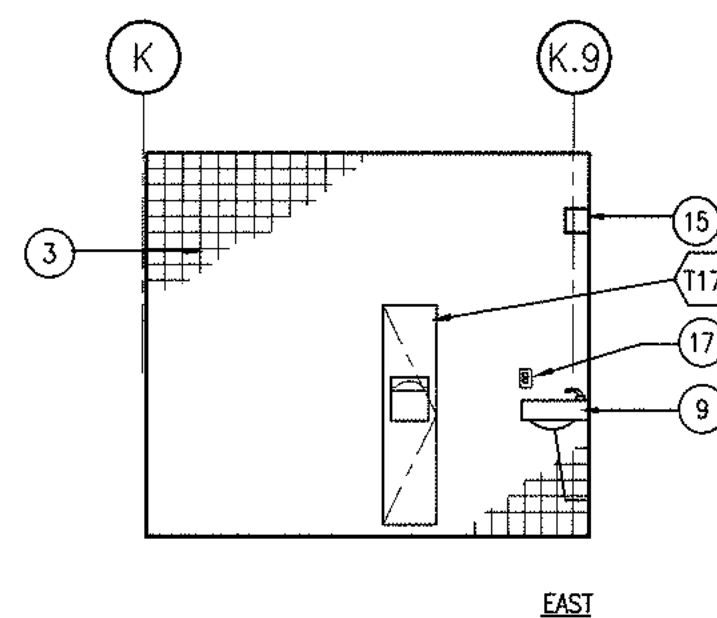
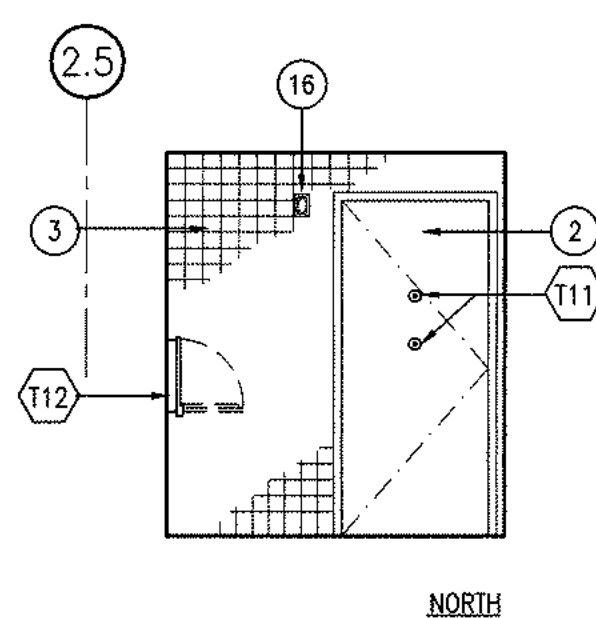
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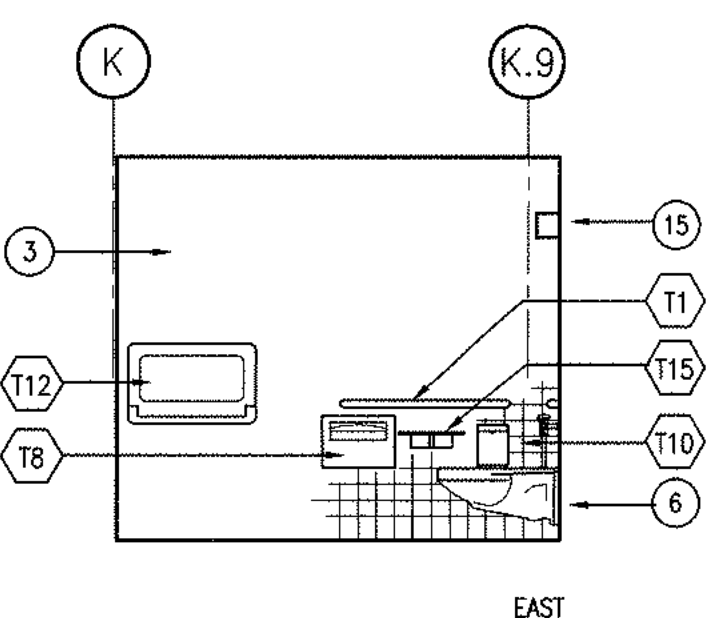
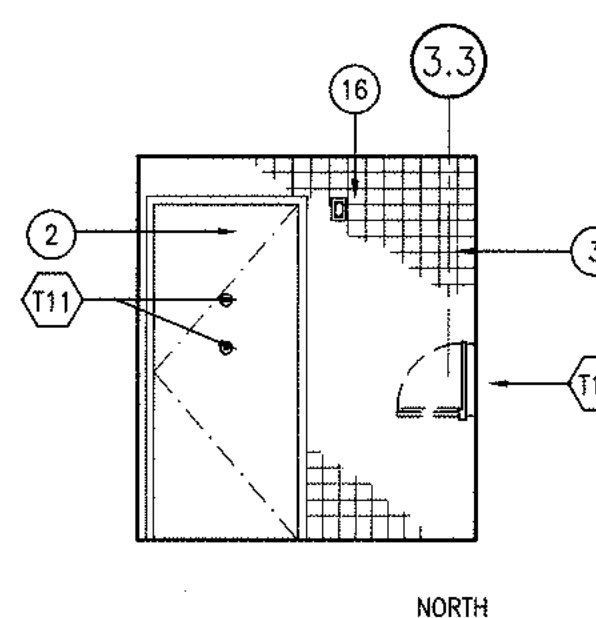
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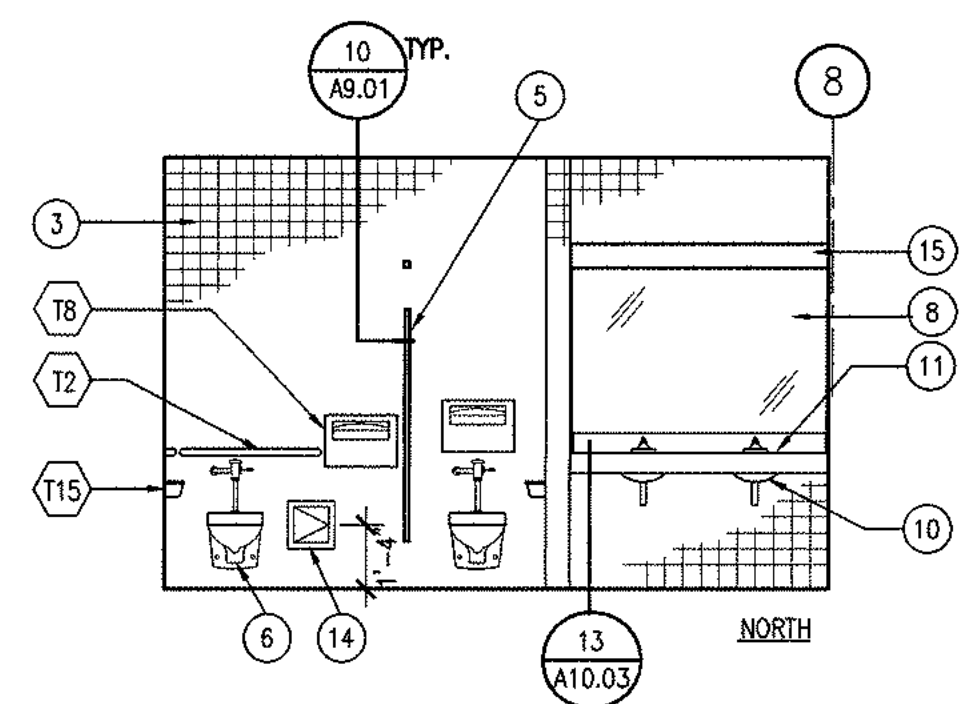
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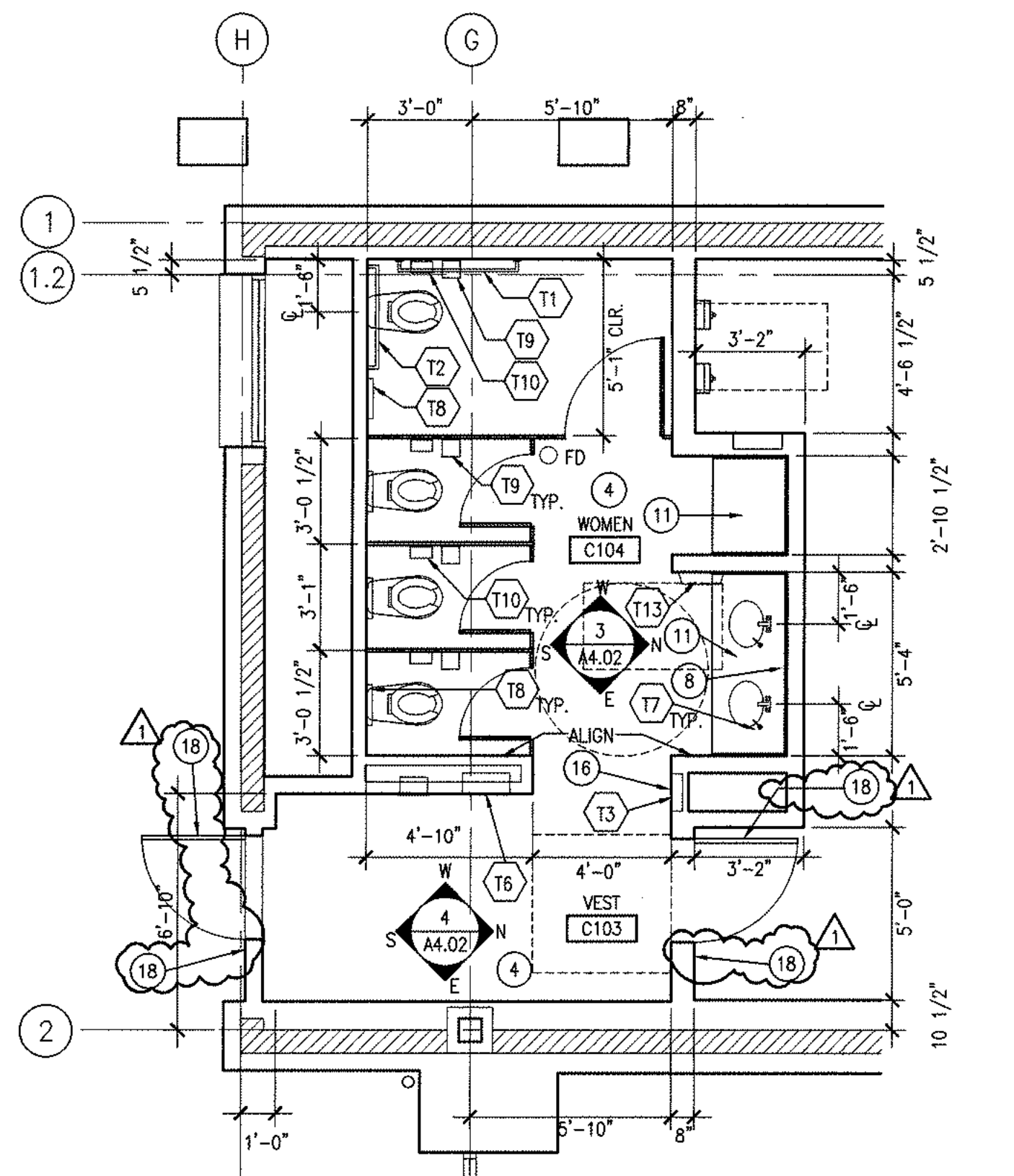
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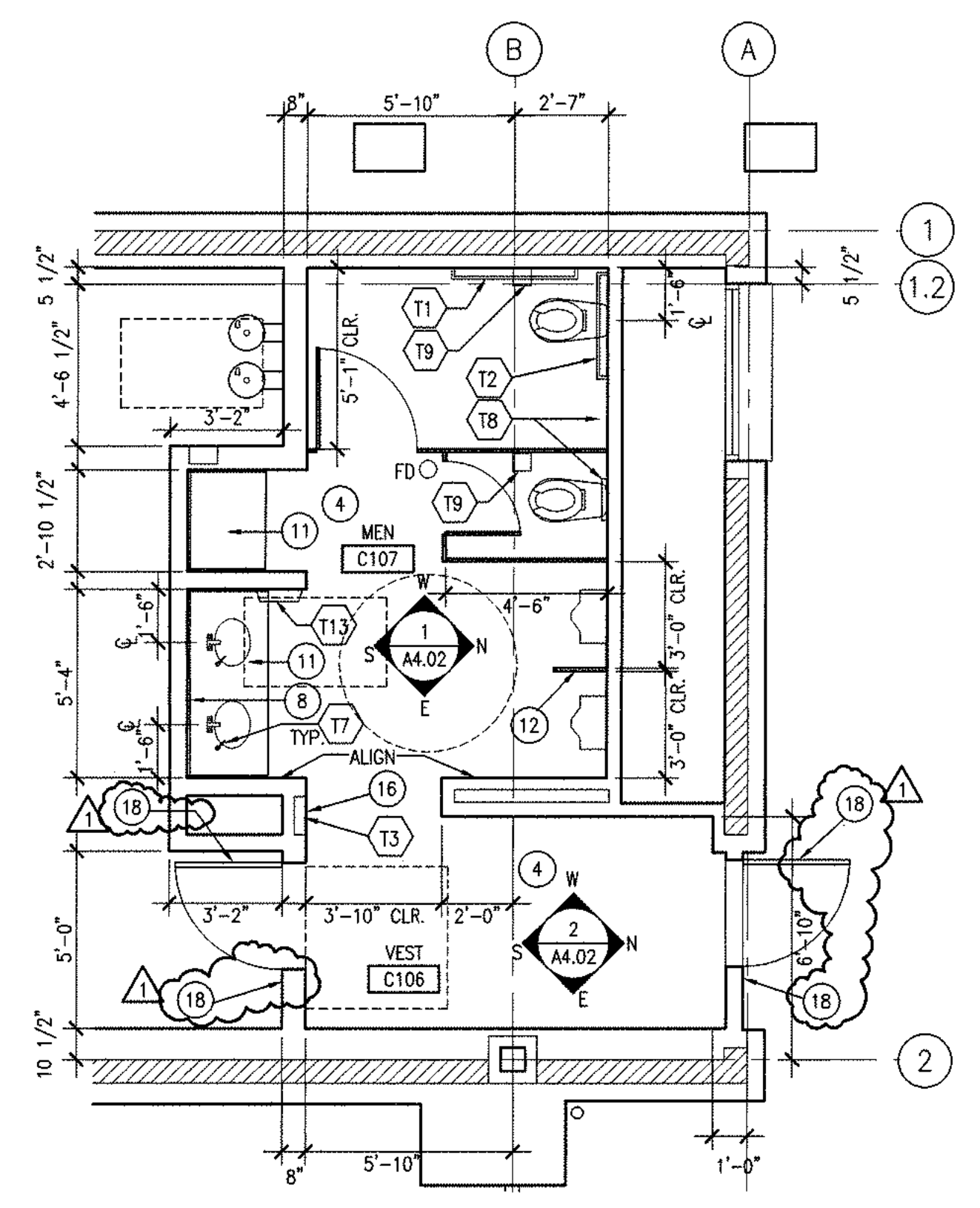
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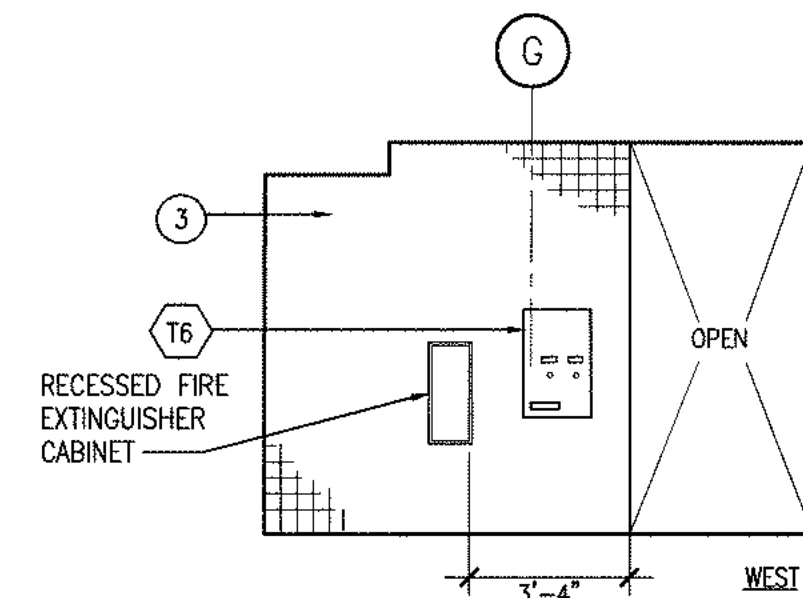
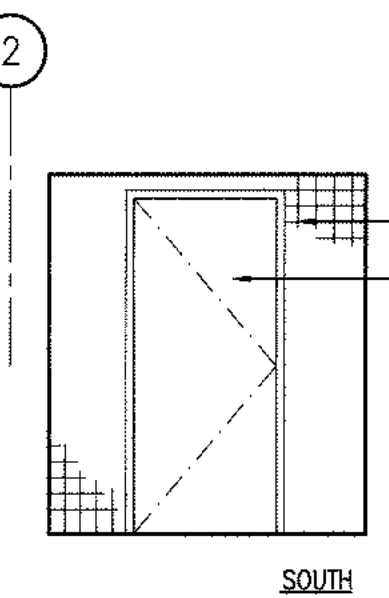
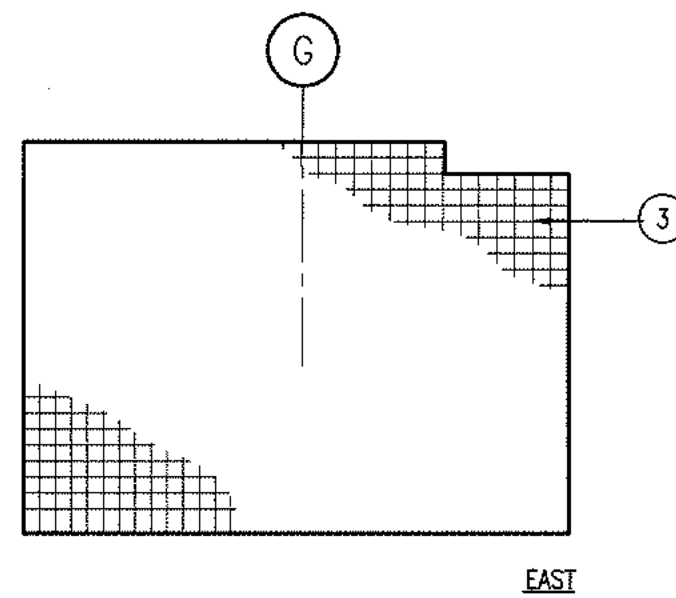
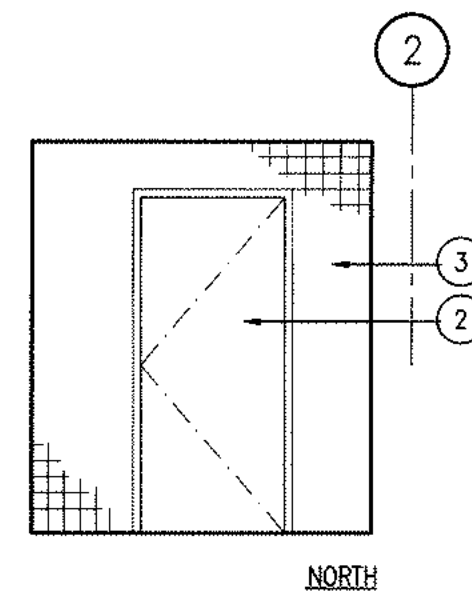
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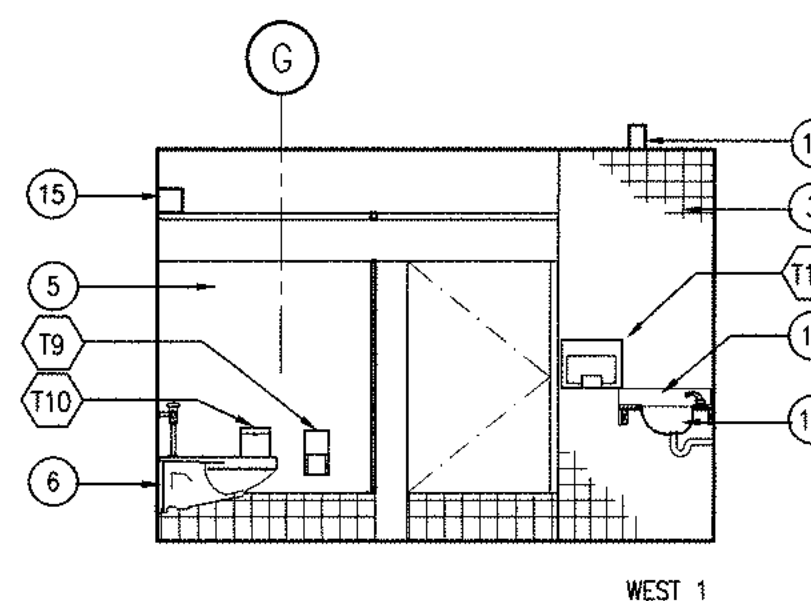
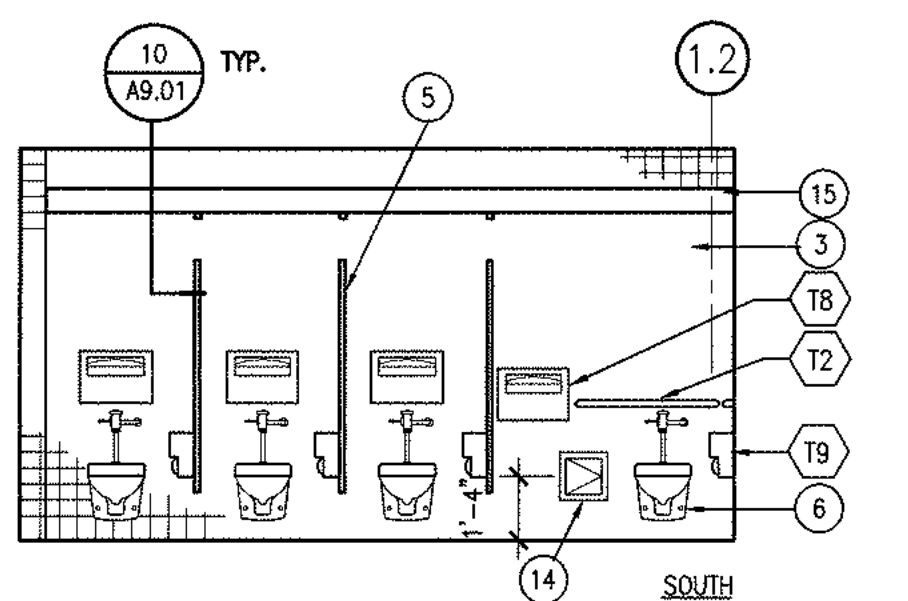
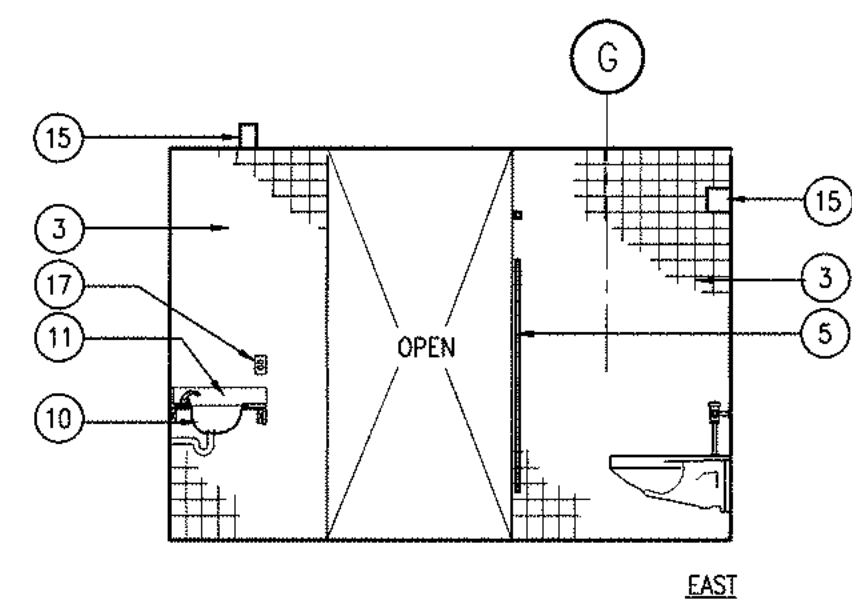
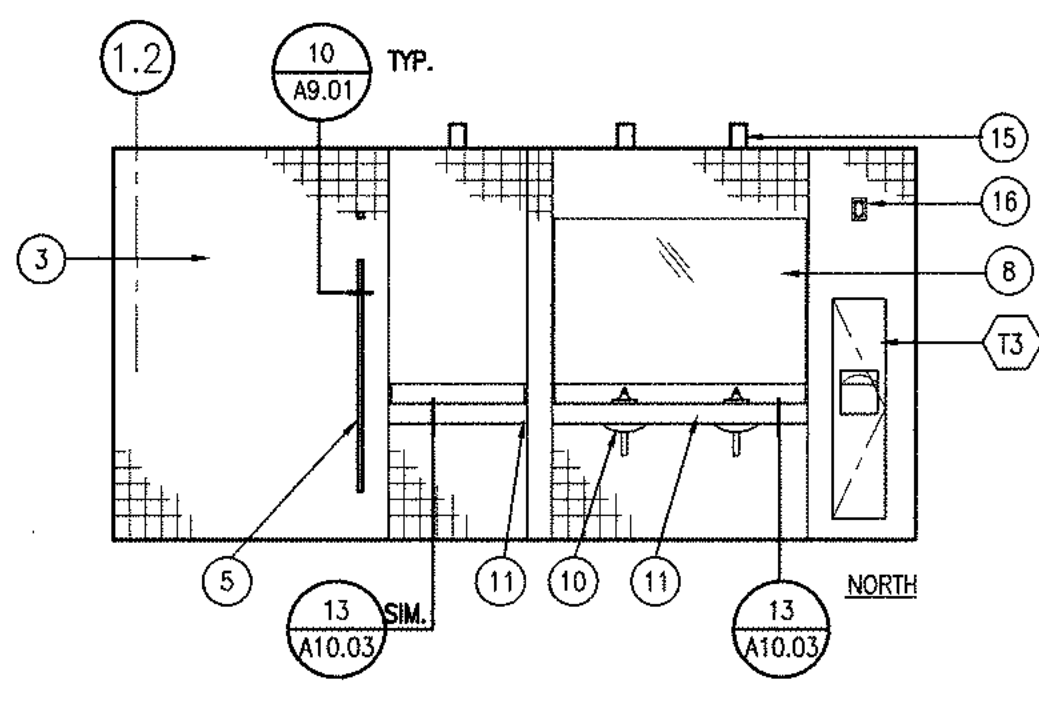
VESTIBULE C103 & WOMEN C104
1/4"=1'-0" 6



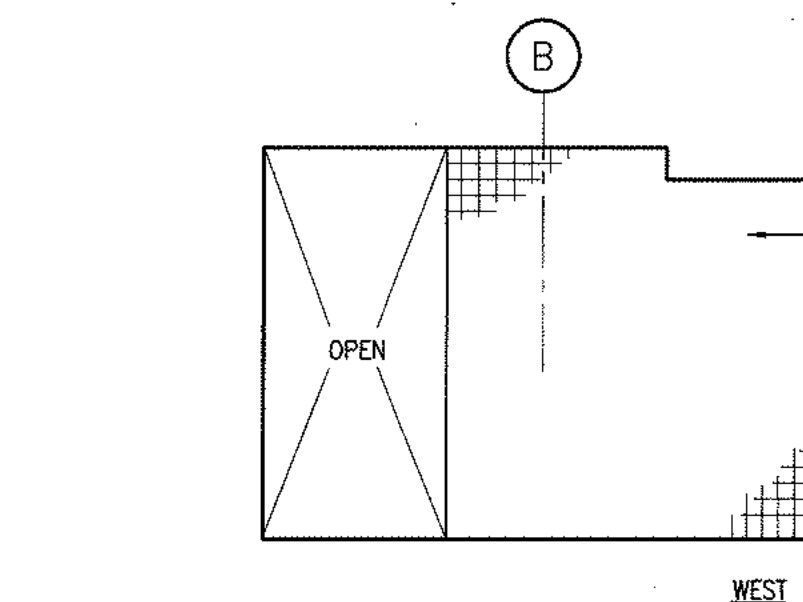
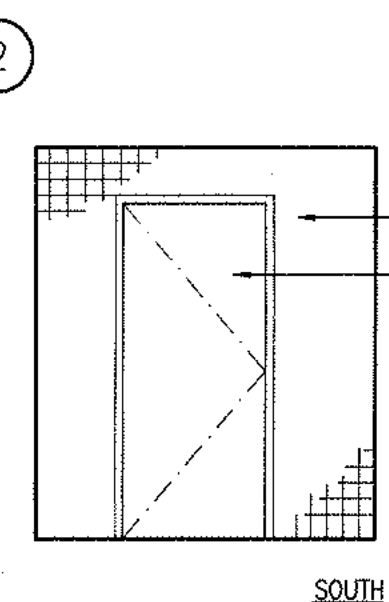
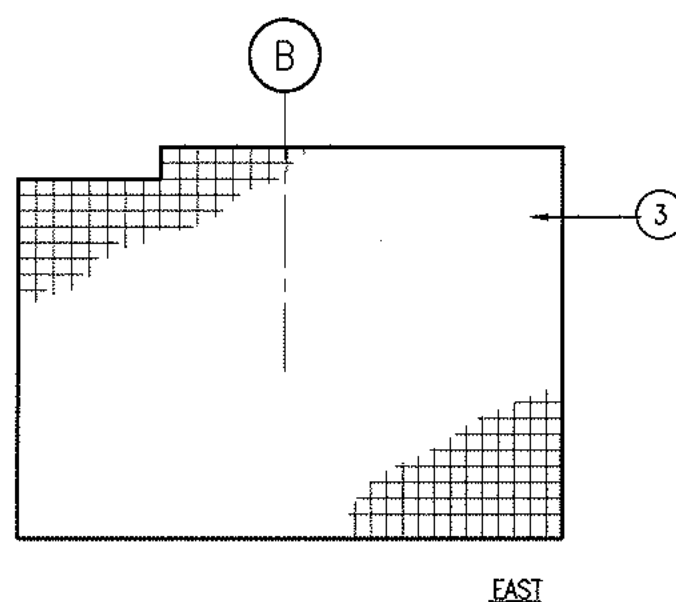
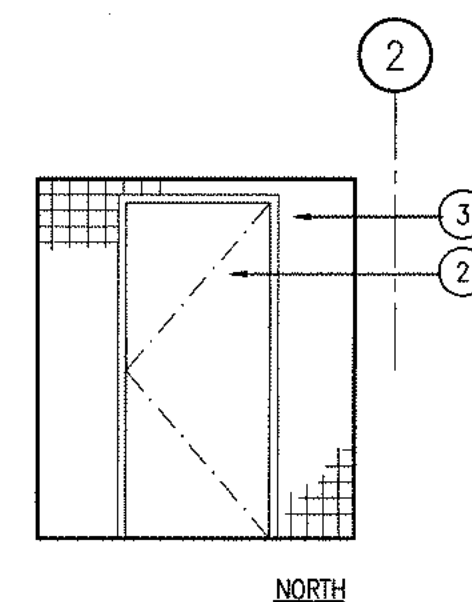
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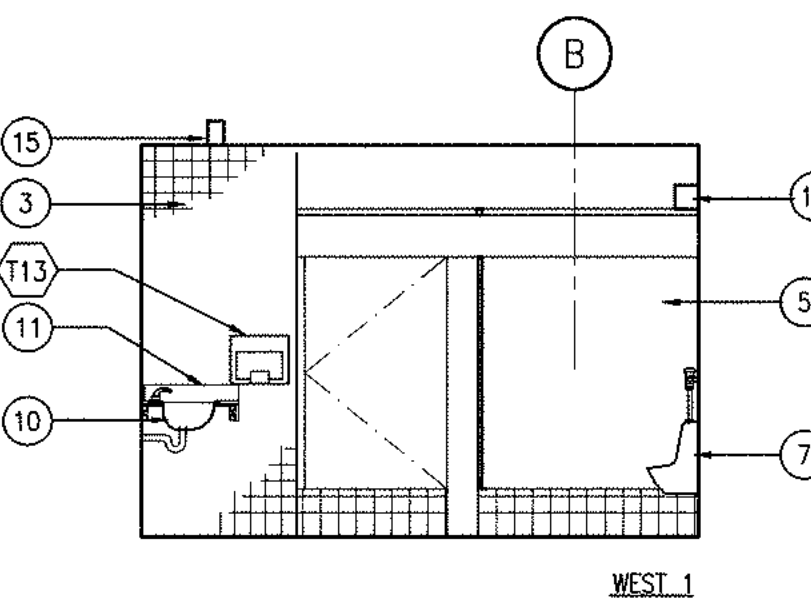
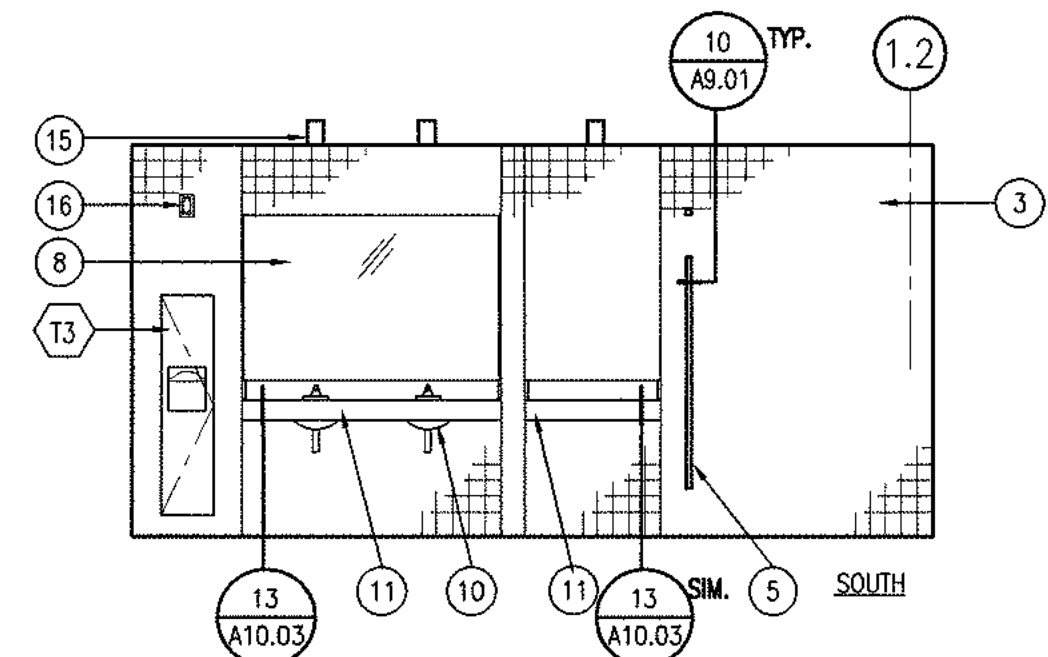
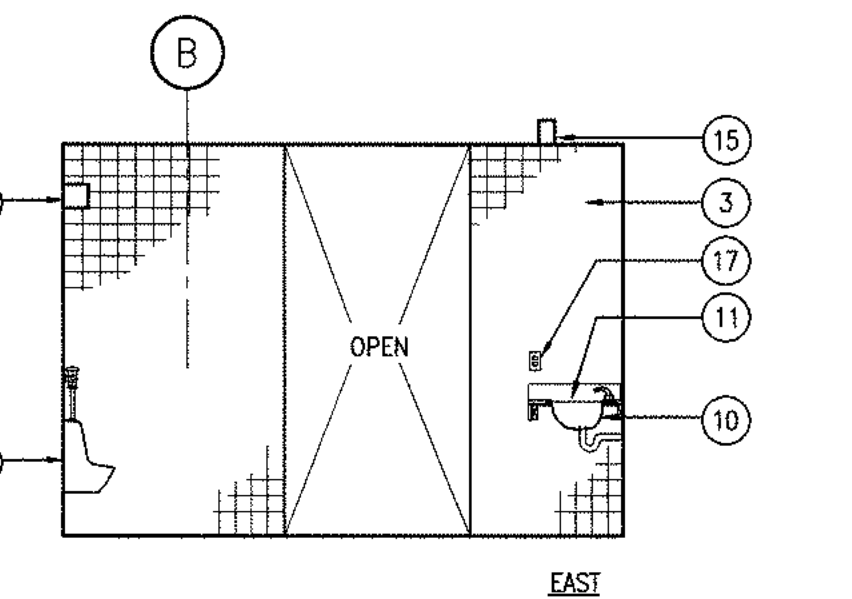
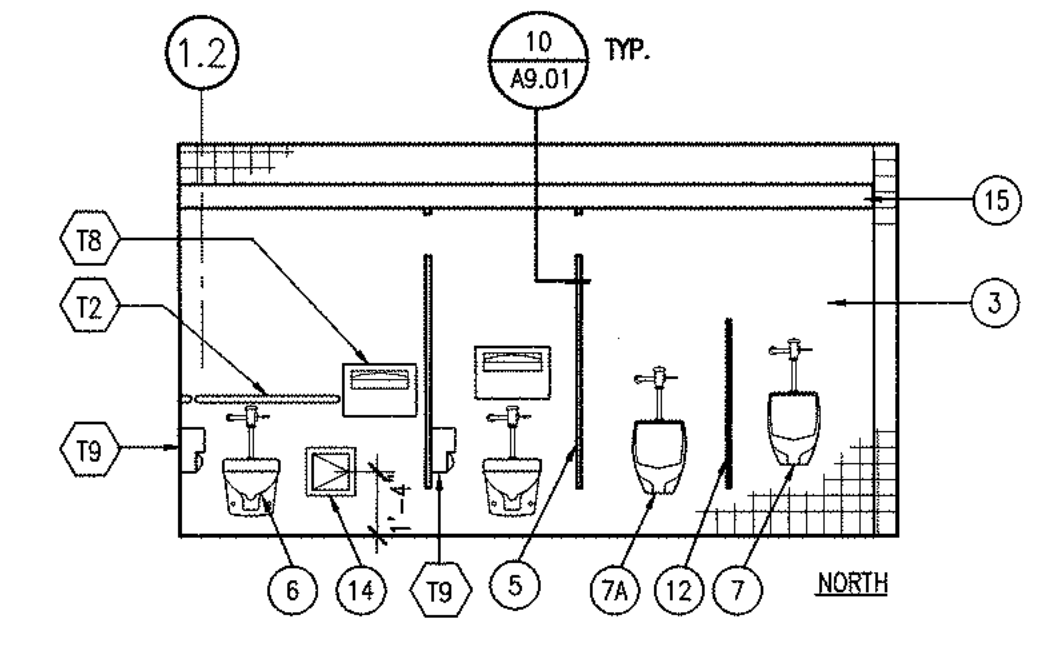
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1/4"=1'-0" 4



WOMEN C104
1/4"=1'-0" 3



VESTIBULE C106
1/4"=1'-0" 2



MEN C107
1/4"=1'-0" 1

- GENERAL NOTES
- FOR HC ACCESSIBLE MOUNTING HEIGHTS OF TOILET ACCESSORIES AND FIXTURES, SEE A4.03.
 - GENERAL CONTRACTOR TO PROVIDE BACKING PLATES IN WALLS AND TOILET STALL PARTITIONS REQUIRED FOR ACCESSORY MOUNTING.
 - COAT HOOKS W/BUMPERS IN TOILET STALLS ARE PROVIDED AS PART OF TOILET PARTITION HARDWARE.
 - SEE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF DIAPER CHANGING STATIONS. PROVIDE BACKING PLATES IN WALL FOR SECURE ATTACHMENT.
 - PROVIDE SIGNAGE TO IDENTIFY HC TOILET STALLS AND LOCATIONS OF DIAPER CHANGING STATIONS.
 - MIRRORS IN SINGLE OCCUPANT TOILETS ARE TO BE PROVIDED AS PART OF TOILET ACCESSORIES (SECTION 10800). LARGE MIRRORS IN MULTIPLE TOILET ROOMS ARE SPECIFIED UNDER SECTION 08800-GLAZING.

- SHEET NOTES
- GYPSON BOARD - PAINTED
 - DOOR AND FRAME - SEE DOOR SCHEDULE
 - CERAMIC TILE WALL
 - CERAMIC TILE FLOOR
 - FLOOR MOUNTED METAL TOILET PARTITION W/ OVERHEAD BRACING
 - WALL HUNG WATER CLOSET
 - URINAL
 - URINAL MOUNTED AT HC HEIGHT
 - MIRROR; SEE SPEC. SECTION 08800-GLAZING
 - WALL HUNG LAVATORY
 - COUNTER MOUNTED LAVATORY
 - SOLID POLYMER COUNTERTOP W/BACKSPASH @ 3 SIDES
 - URINAL SCREEN
 - 3/4" SOLID POLYMER SHELVES FOR BOOKS
 - 12" X 12" STAINLESS STEEL ACCESS PANEL; COORD. LOCATION W/PLUMBING
 - LIGHT FIXTURE, S.E.D.
 - FIRE ALARM DEVICE, S.E.D.
 - ELECTRICAL OUTLET, S.E.D.
 - ACCESSIBLE TOILET SIGNAGE PER ADAG & CBC

- TOILET ACCESSORIES LEGEND
- GRAB BARS: BOBRICK/B5806 X 42", 1-1/4" DIAMETER STAINLESS STEEL WITH SNAP FLANGE, SATIN FINISH. AT HC TOILET STALLS.
 - GRAB BARS: BOBRICK/B5806 X 36", 1-1/4" DIAMETER STAINLESS STEEL WITH SNAP FLANGE, SATIN FINISH. AT HC TOILET STALLS.
 - RECESSED PAPER TOWEL DISPENSER & DISPOSAL: BOBRICK/B-3803, FOR 600 C-FOLD OR 800 MULTI-FOLD TOWELS WITH 6.3 GALLON WASTE CONTAINER; SATIN FINISH. (5.625" RECESS DEPTH)
 - RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE: BOBRICK/B-3803S, FOR 600 C-FOLD OR 800 MULTIFOLD TOWELS WITH 12 GALLON WASTE CONTAINER, SATIN FINISH. (7-1/2" RECESS DEPTH)
 - RECESSED PAPER TOWEL DISPENSER: BOBRICK/B-35903, FOR 300 C-FOLD OR 400 MULTI-FOLD PAPER TOWELS; SATIN FINISH. (3-5/8" RECESS DEPTH)
 - RECESSED NAPKIN/TAMPON VENDOR: BOBRICK/B-3500 10, 10-CENT COIN OPERATION. (4" RECESS DEPTH)
 - COUNTER OR LAVATORY MOUNTED SOAP DISPENSER FOR ANTI-BACTERIAL SOAP: BOBRICK/817637
 - SURFACE-MOUNTED TOILET SEAT COVER DISPENSER: BOBRICK/B-4221, STAINLESS STEEL, SATIN FINISH.
 - SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER W/THEFT RESISTANT SPINDLE: BOBRICK/B-4288, SATIN FINISH.
 - SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK/ B-270, SATIN FINISH.
 - ROBE HOOK: BOBRICK/B-2116; SATIN FINISH
 - SURFACE MOUNTED DIAPER CHANGING STATION: BOBRICK/B-2200
 - SEMI-RECESSED ELEC. HAND DRYER: BOBRICK/B-750, 115V POWER
 - MOP HOLDER WITH SHELF, STAINLESS STEEL: BOBRICK/B-224, SATIN FINISH, LOCATED AT EACH JANITOR'S CLOSET.
 - SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER; CONTINUOUS FREE FLOW W/SHELF & THEFT RESISTANT SPINDLE: BOBRICK/ B-2840.60, SATIN FINISH.
 - SURFACE MOUNTED PAPER TOWEL DISPENSER: BOBRICK/ B-262, FOR 400 C-FOLD OR 525 MULTIFOLD TOWELS, SATIN FINISH.
 - RECESSED PAPER TOWEL DISPENSER & DISPOSAL: BOBRICK/ B-38034, FOR 600 C-FOLD OR 800 MULTIFOLD TOWELS WITH 3.8 GALLON WASTE CONTAINER, SATIN FINISH. (3-5/8" RECESS DEPTH)
 - MIRROR W/STAINLESS STL. CHANNEL FRAME, 24" W X 36" H: BOBRICK/ B-165

SHMM architecture interiors planning graphic design

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10300 Torre Avenue
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408 777 3333 F

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Hargreaves Associates
2020 17th Street
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415 865 1810 F

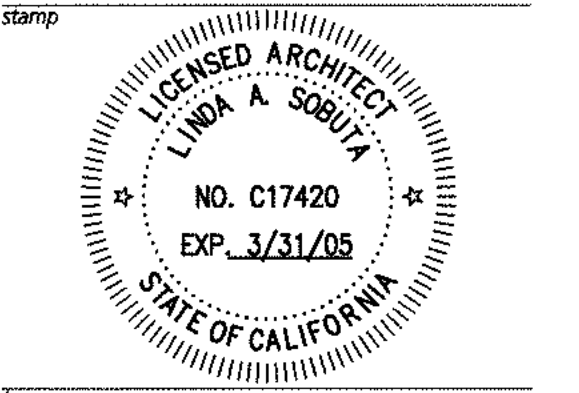
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2003.05.07 ADDENDUM NO. 1

11-29-04 Updated Contract Documents



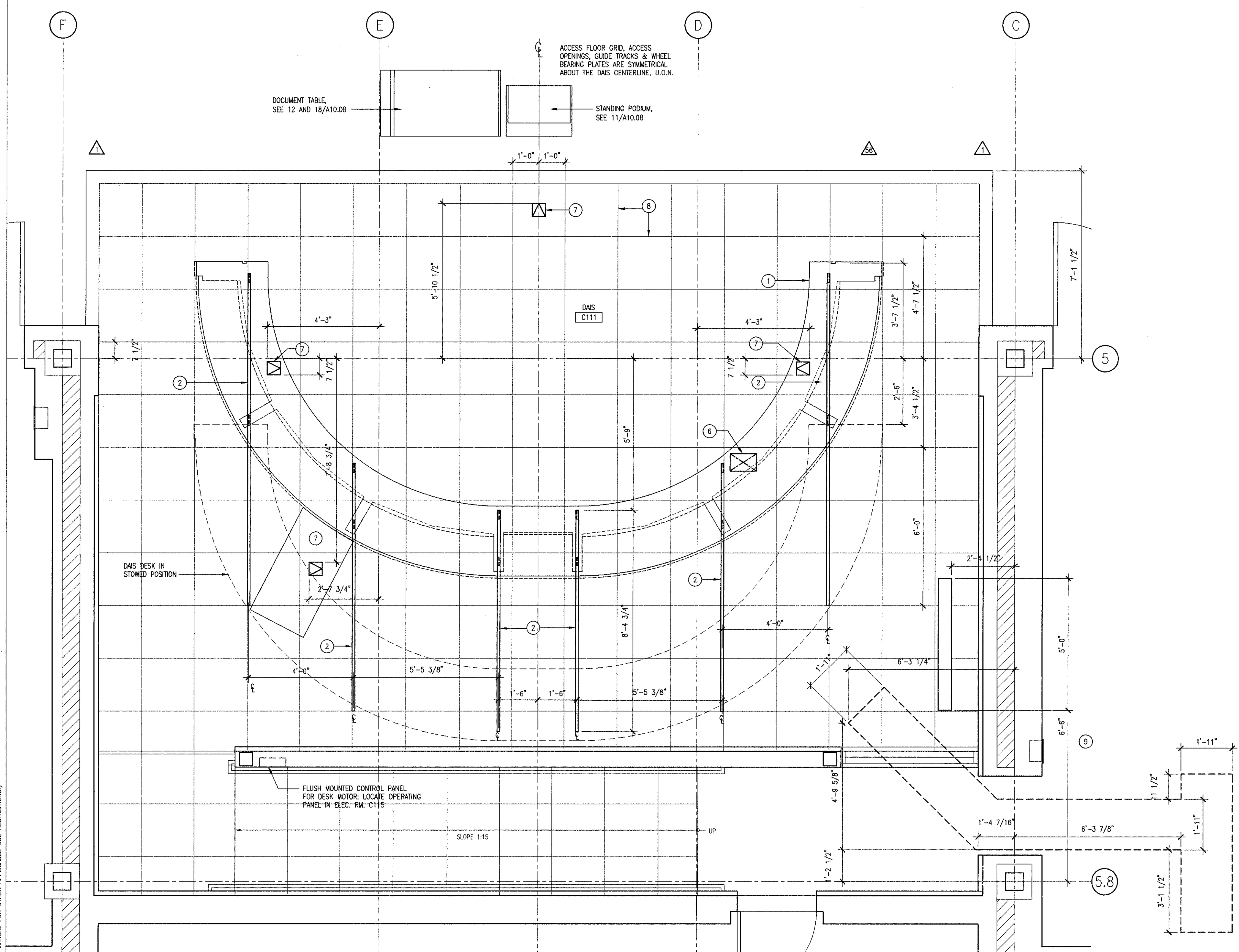
BID SET

COMMUNITY HALL ENLARGED PLANS & INTERIOR ELEVATIONS TOILETS

Scale: 1/4" = 1'-0" Date: 2003.04.18
Drawn by: project number: 20114.00
Sheet number:

A4.02

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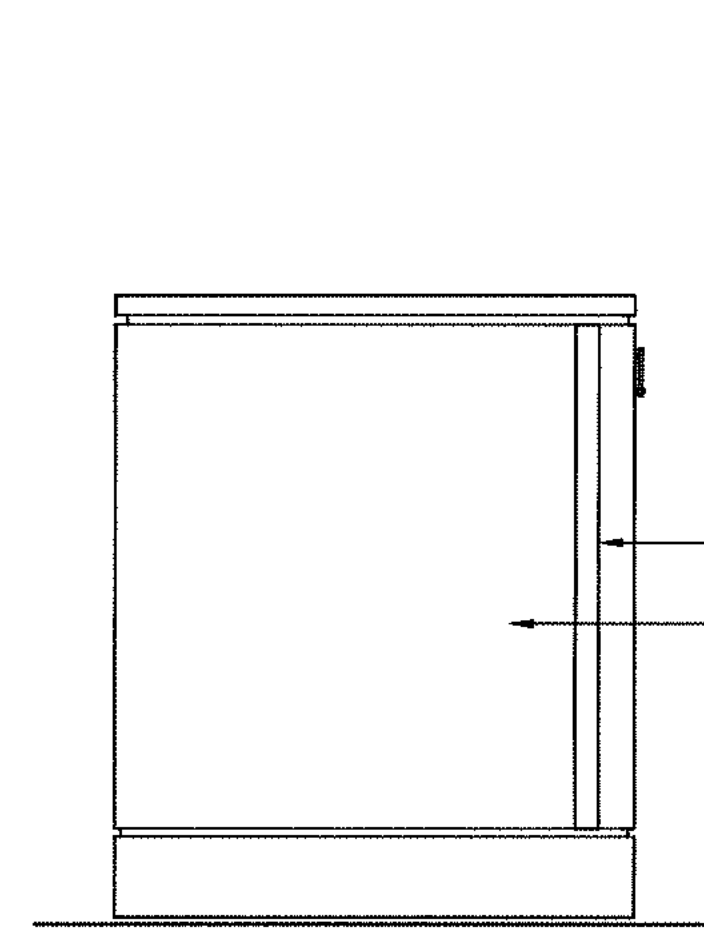


ENLARGED PLAN AT RAISED FLOOR
1/2" = 1'-0" (3)

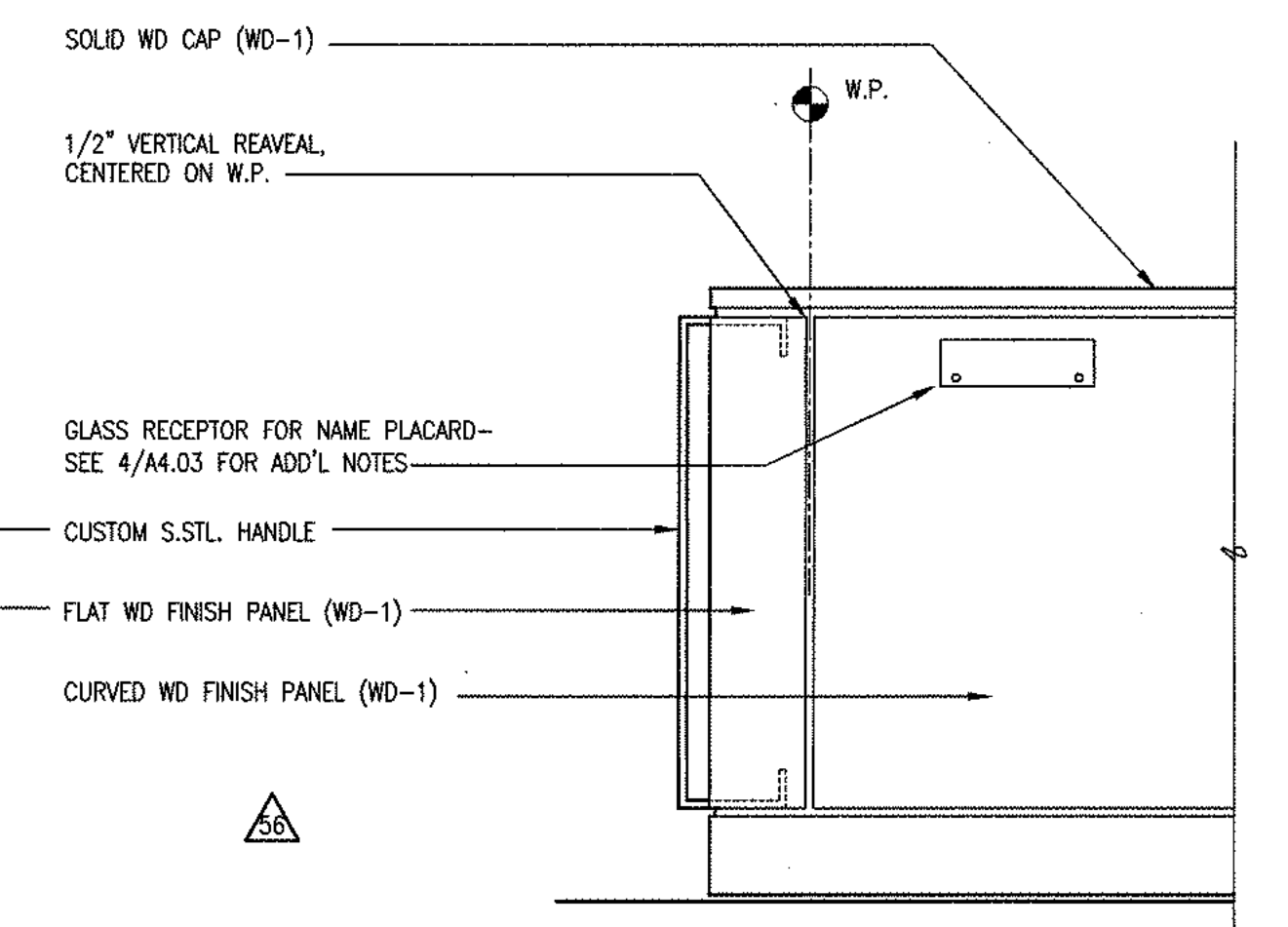
- GENERAL NOTES**
- DAIS TABLE WIRING**
 - PROVIDE NEMA 5-15R RECEPTACLES AS SHOWN ON DRAWINGS. RECEPTACLES SHOULD BE WIRED TO A THREE-CIRCUIT-FIVE WIRE WHIP IN LIQUID TIGHT FLEXIBLE CONDUIT. PROVIDE 15' SLACK CABLE AND CONNECT A MAXIMUM OF FIVE (5) RECEPTACLES PER SINGLE CIRCUIT. USE #12 AWG CONDUCTOR. MINIMUM WIRING SHALL BE COLOR CODED AS FOLLOWS:
 - PHASE A-RED
 - PHASE B-BLUE
 - PHASE C-BLACK
 - NEUTRAL-WHITE
 - GROUND-GREEN
 - ENTIRE SYSTEM SHALL BE UL LISTED.
 - ALL RACEWAYS TO BE CONCEALED BEHIND REMOVABLE PANEL.
 - AV EQUIPMENT**
 - ALL AV EQUIPMENT TO BE PROVIDED & INSTALLED BY OWNER. PREPARE OPENINGS FOR EQUIPMENT PANELS AS INDICATED.
 - DESK FRAME**
 - CONTRACTOR TO SIZE STEEL TO PROVIDE A SINGLE RIGID SUB-FRAME FOR DESK FINISH. TEST MOVABILITY OF FRAME PRIOR TO APPLICATION OF FINISHES.

- LEGEND**
- (P1) PANEL TYPE 1 - 8/A10.04
 - (P2) PANEL TYPE 2 - 8/A10.04
 - (P3) PANEL TYPE 3 - 7/A10.04
 - (P4) PANEL TYPE 4 - 7/A10.04
 - (FR1) FRAME TYPE 1 - 1/A10.04
 - (FR2) FRAME TYPE 2 - 2/A10.04
 - (VL) VOTING LIGHTS
 - (SB) STEP BRAKE

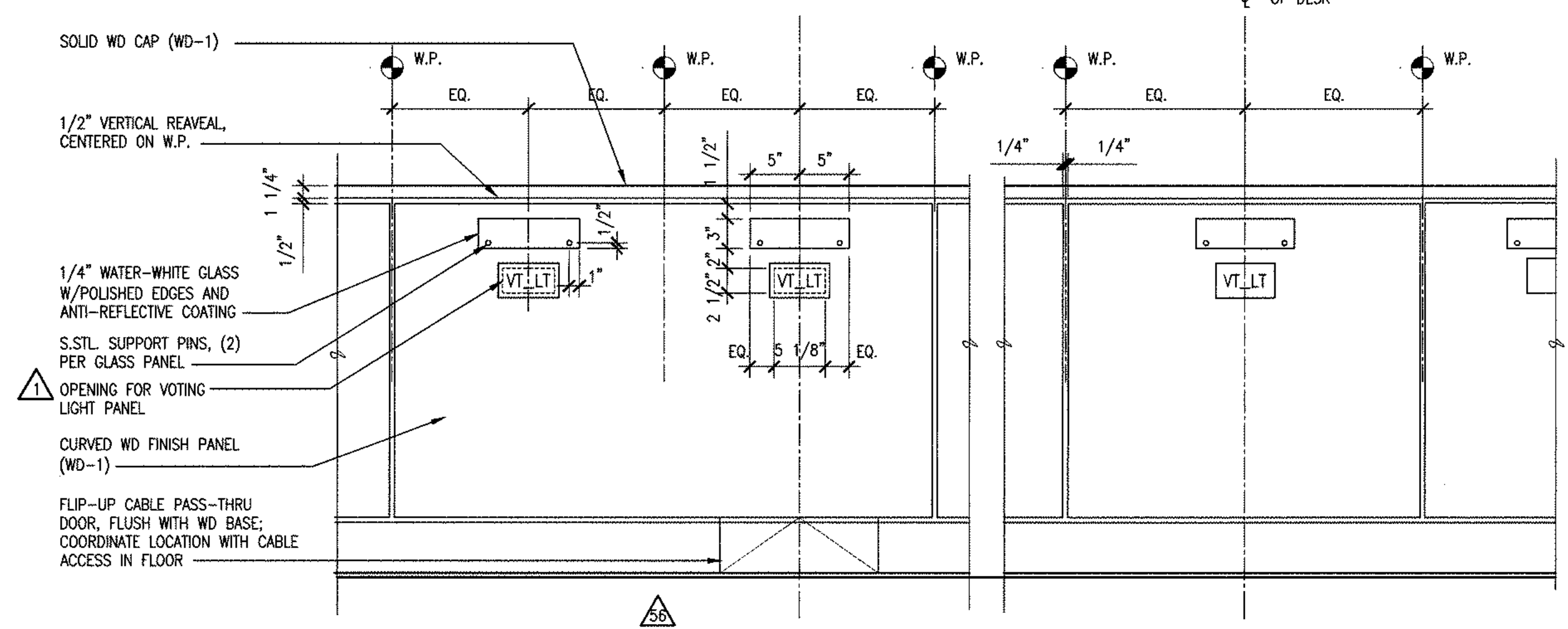
- KEYNOTES**
- (1) PERMANENT, MOVABLE DESK
 - (2) 1-1/4" SLOT OPENING IN ACCESS FLOOR W/ EDGE TRIM
 - (3) NOT USED
 - (4) NOT USED
 - (5) NOT USED
 - (6) CABLE OPENING IN ACCESS FLOOR W/ EDGE TRIM; CONFIRM LOCATION & SIZE WITH OWNER
 - (7) FLOOR BOX TRIM W/COVER IN ACCESS FLOOR
 - (8) ACCESS FLOOR PANEL- SEE A10.20 FOR FINISH
 - (9) IN-FLOOR TRENCH DUCT W/REMOVABLE COVERS



DESK ELEVATION 6
1" = 1'-0" (6)

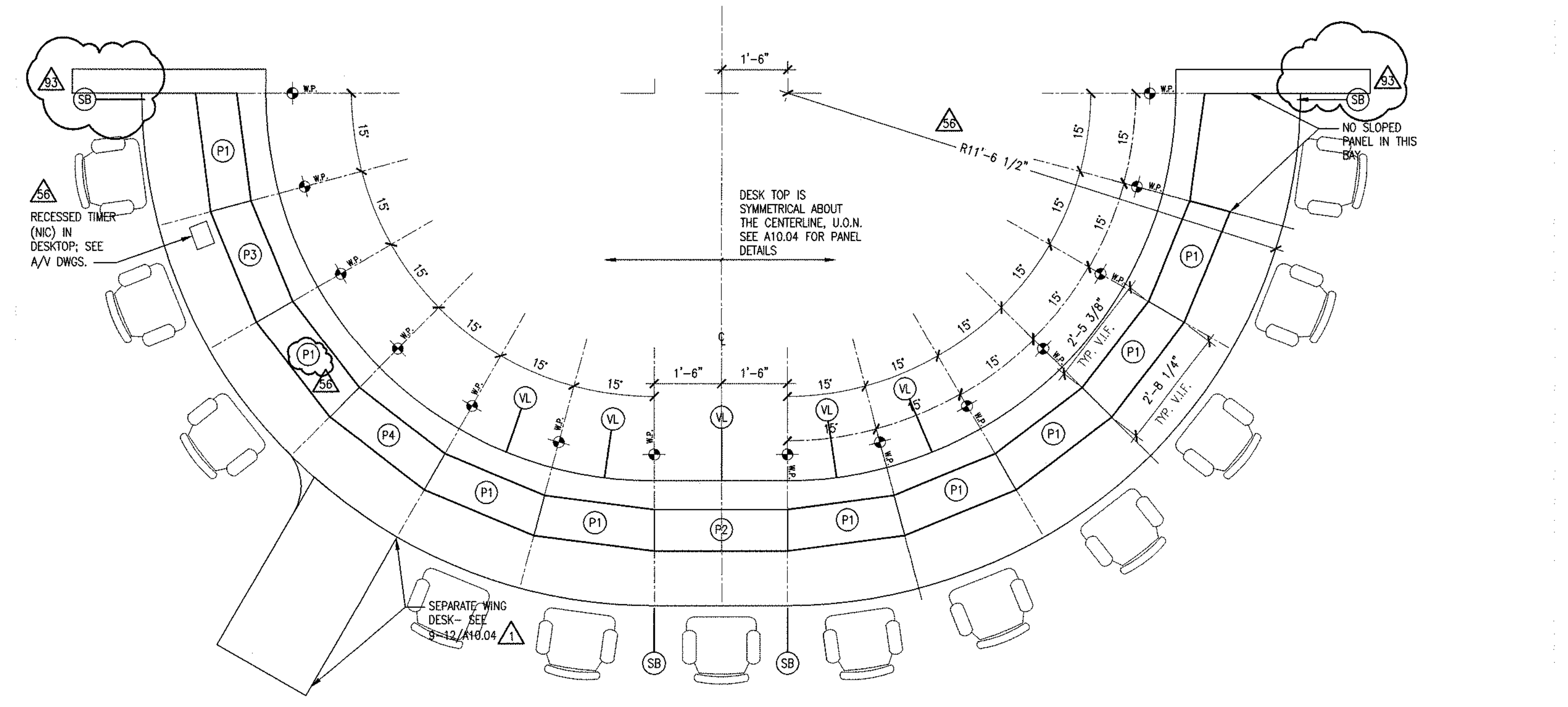


DESK ELEVATION 5
1" = 1'-0" (5)

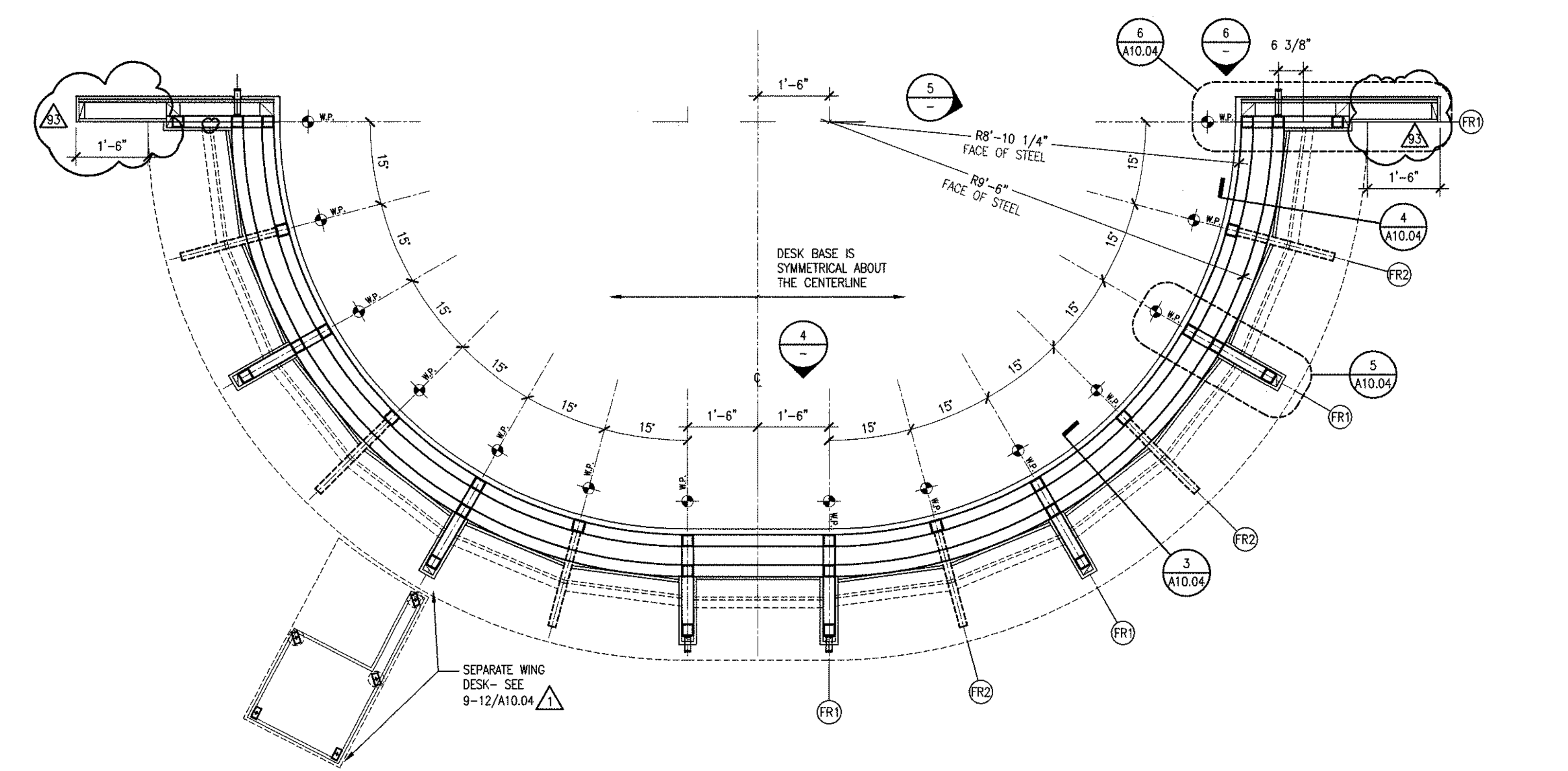


DESK ELEVATION 4
1" = 1'-0" (4)

FILE: \2011\4-00_CUPERTINO LIBRARY\CDP\DWG\DETAILS\DAIS DESK\DESK_ELEV1.DWG



PLAN AT DESK TOP
1/2" = 1'-0" (2)



PLAN AT DESK BASE
1/2" = 1'-0" (1)

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Cupertino, CA 95014
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590 Menlo Drive, Suite 1
Rocklin, CA 95765
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916.435.2410 F

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2020 17th Street
San Francisco, CA 94103
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2003.05.07	ADDENDUM NO. 1
2004.04.19	CCD NO. 54
2004.08.11	CCD NO. 91

11-29-04 Updated Contract Documents

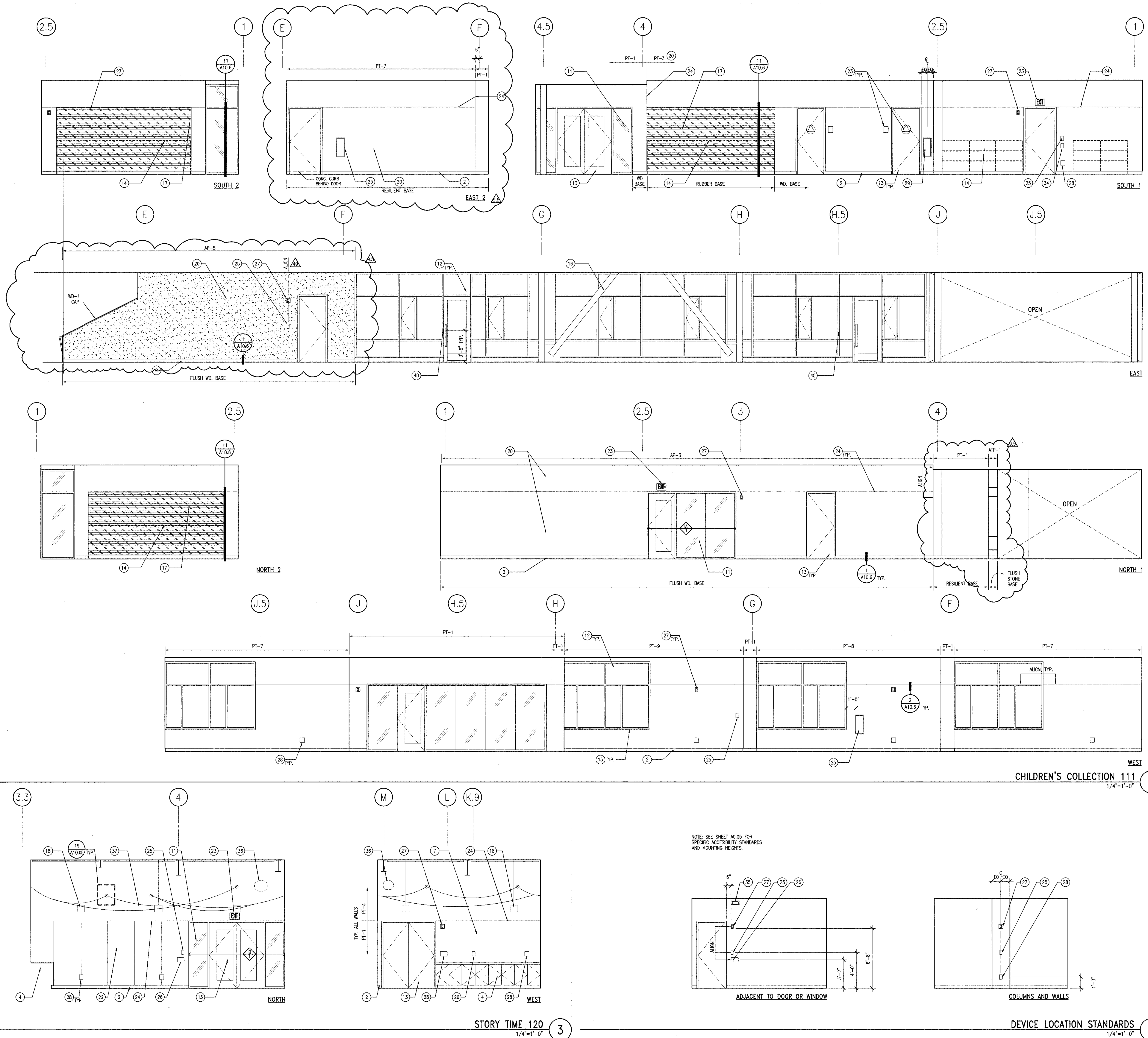
ISSUED & ARCHITECT
LINA A. SOUSA
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

BID SET

COMMUNITY HALL
ENLARGED PLAN
DAIS & DESK

scale: 1/2" = 1'-0" date: 2003.04.18
drawn by: JL project number: 201114.00
sheet number: A4.03

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- GENERAL NOTES**
- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
 - ALL FLOOR FINISH TO BE CARPET, U.O.N.
 - VERTICAL SURFACES ARE G.W.B., PTD. PT-1, U.O.N.
 - ALL EXPOSED STRUCTURAL STEEL PTD. PT-11, U.O.N.
 - FOR LOCATION OF OUTLETS, SWITCHES & OTHER WALL MOUNTED DEVICES SEE 1/4S.10, U.O.N.

- KEYNOTES**
- STL. COL., S.S.D.
 - SCHEDULED WALL BASE, SEE FINISH SCHEDULE
 - BUILT-IN BENCH W/ HARDWOOD VENEER
 - CUSTOM CASEWORK
 - POWER & DATA WIREMOLD RACEWAY, S.E.D.
 - BOOK THEFT DETECTION SYSTEM
 - PLASTIC LAMINATE
 - ACCESSIBLE DRINKING FOUNTAIN
 - MAIN STAIR, STONE TREADS, GLASS RAIL, SEE A7.00
 - ELEVATOR CONTROLS
 - INTERIOR ALUMINUM FRAME GLAZING
 - EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
 - SCHEDULED DOOR AND FRAME, SEE FLOOR PLANS & DOOR SCHEDULE
 - 45" BOOK STACK, SEE STACK PLANS
 - PAINTED HARDWOOD SILL
 - STRUCTURAL STEEL, PAINTED
 - BULLETIN BOARD WALL COVERING
 - LIGHT FIXTURE, SEE R.C.P. FOR LAYOUT, S.E.D. FOR FIXTURE TYPES
 - MECHANICAL REGISTER PTD., S.M.D.
 - ARTISAN VENEER PLASTER
 - CLERESTORY WINDOW
 - FABRIC WRAPPED ACOUSTICAL PANEL
 - SIGNAGE
 - 1/4" ALUMINUM REVEAL
 - THERMOSTAT, S.M.D.
 - ELECTRICAL SWITCH, S.E.D.
 - FIRE ALARM EQUIP., S.E.D.
 - OUTLET, S.E.D.
 - RECESSED FIRE EXTINGUISHER CABINET
 - DISHWASHER, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - REFRIGERATOR, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - COOK TOP, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - 90" BOOK STACK, SEE STACK PLANS
 - SECURITY EQUIPMENT, SEE TELECOM DWGS.
 - SPEAKER, SEE TELECOM DWGS.
 - MECHANICAL DUCT, PAINTED, S.M.D.
 - CUSTOM FABRIC CLNG, SEE R.C.P.
 - TELEPHONE, SEE TELECOM DWGS.
 - CORNERGUARD
 - DOOR ACTUATOR
 - CHAIR RAIL
 - 3/8" X 1-1/4" S. STL. BAR DETECTABLE BARRIER
 - PARTIAL HEIGHT PARTITION
 - SHADE
 - SHADED MOUNTED ON DOOR; SEE 16/A9.04
 - ARTISAN VENEER PLASTER FINISH; SEE ROOM FINISH SCHEDULE / A10.00 FOR COLOR
 - ARTISAN VENEER PLASTER FINISH; SEE ROOM FINISH SCHEDULE / A10.00 FOR COLOR
 - 1/4" REVEAL
 - 3/16" ST. STEEL RAIL
 - WD-1 PANELS OVER GWB
 - FLUSH STONE BASE
 - AQUARIUM TANK, N.I.C.
 - FUTURE PIN MOUNTED SIGNAGE, N.I.C.
 - 1/2" POINT SUPPORTED GLASS RAMPERS
 - 1 1/4" STONE CAP, ST-3

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 2004.02.04 CCD NO. 7.5

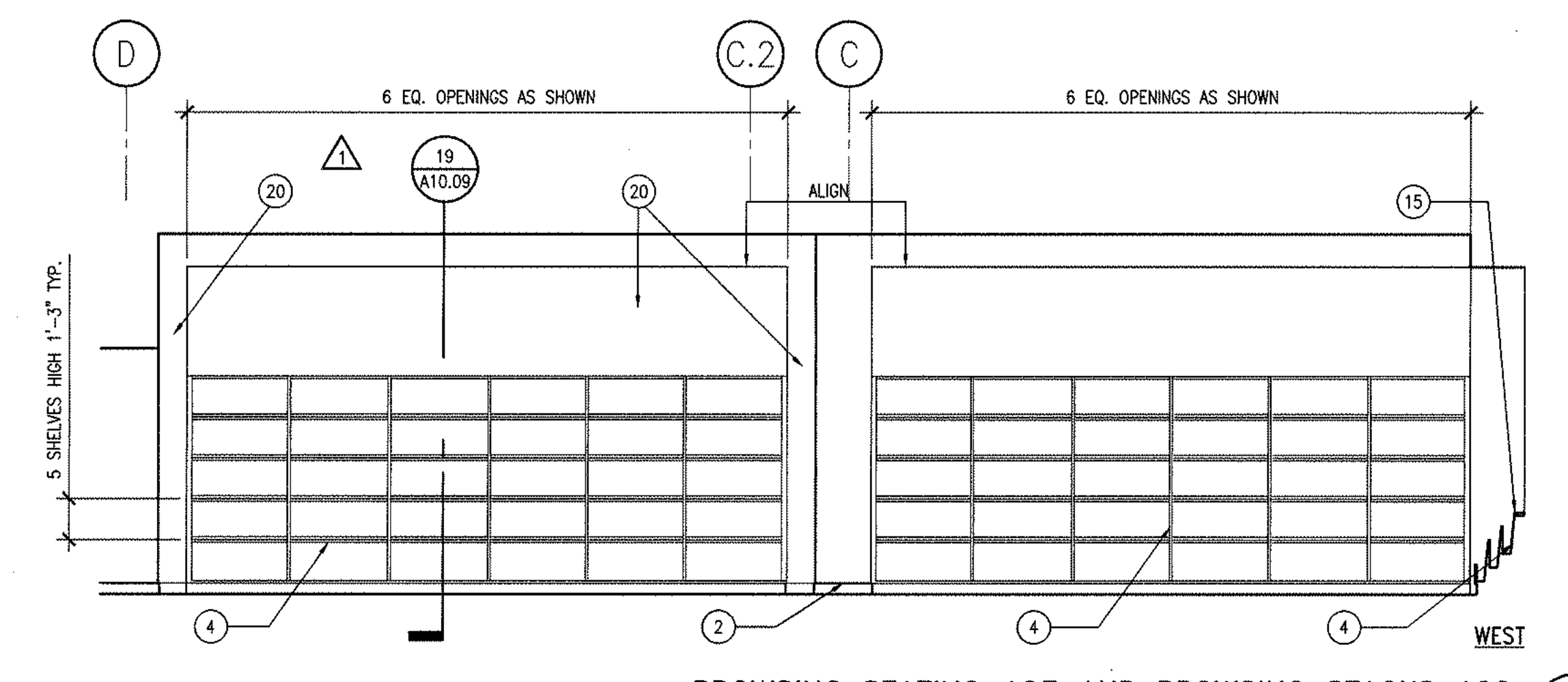
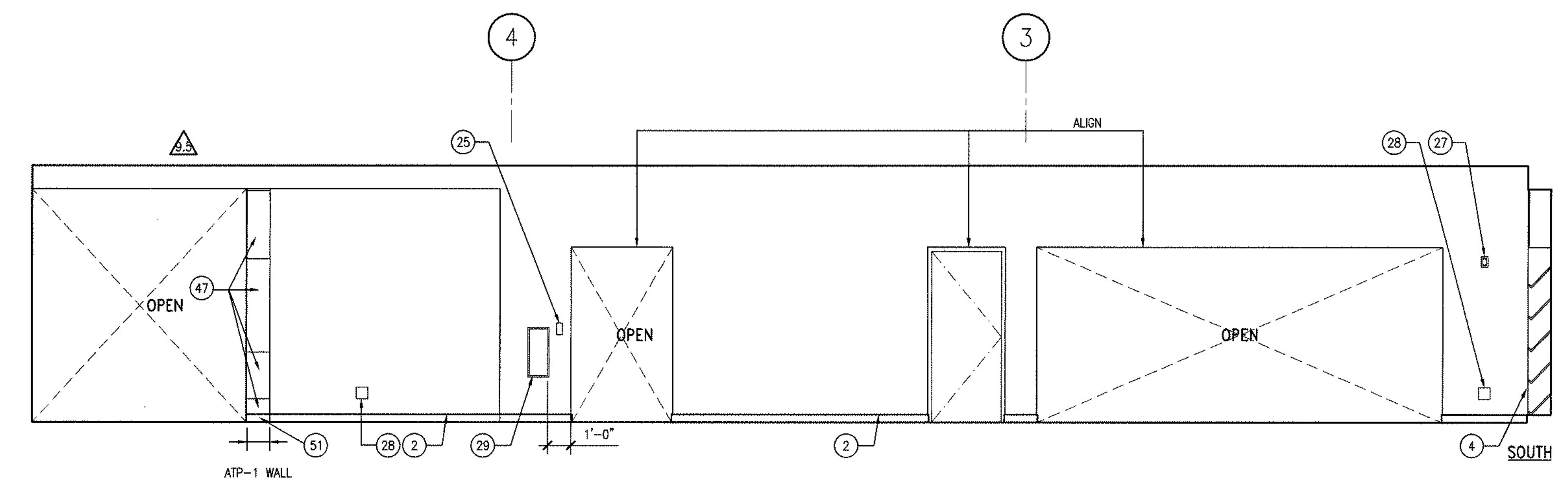
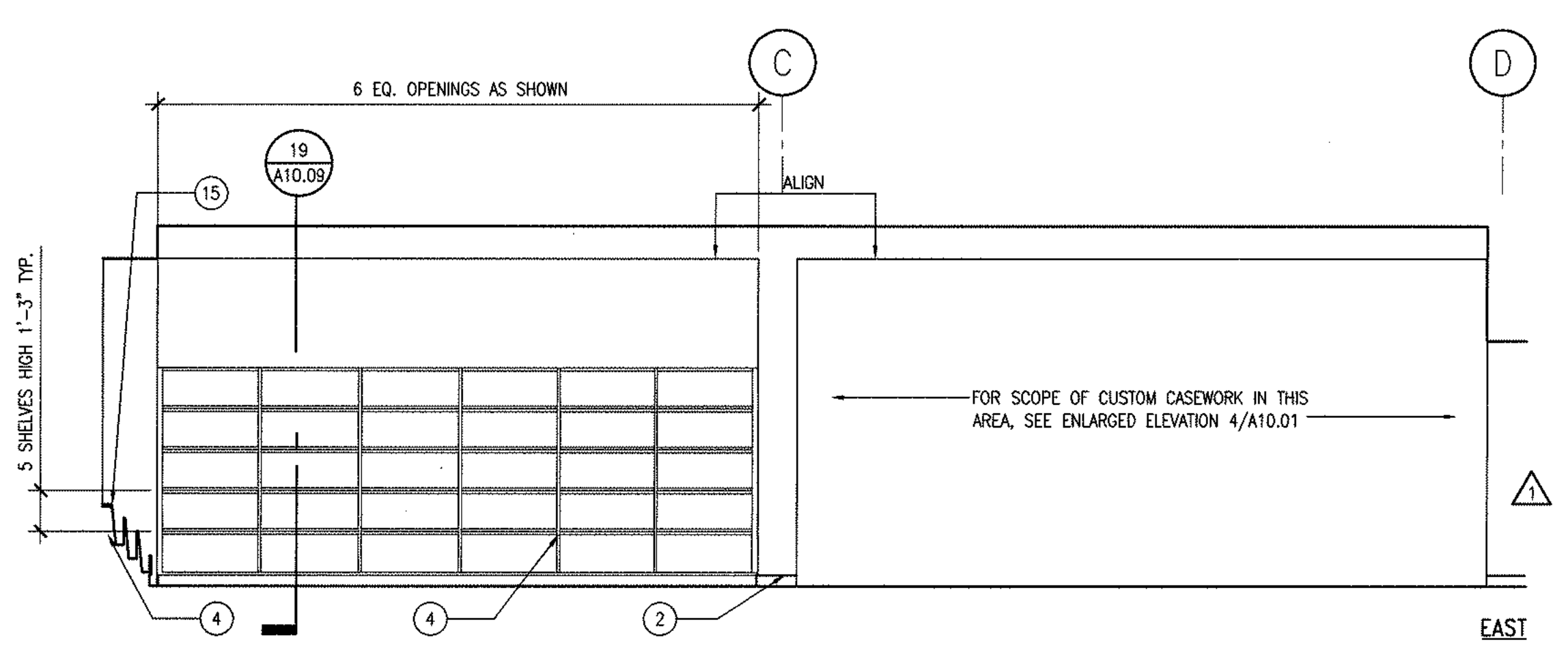
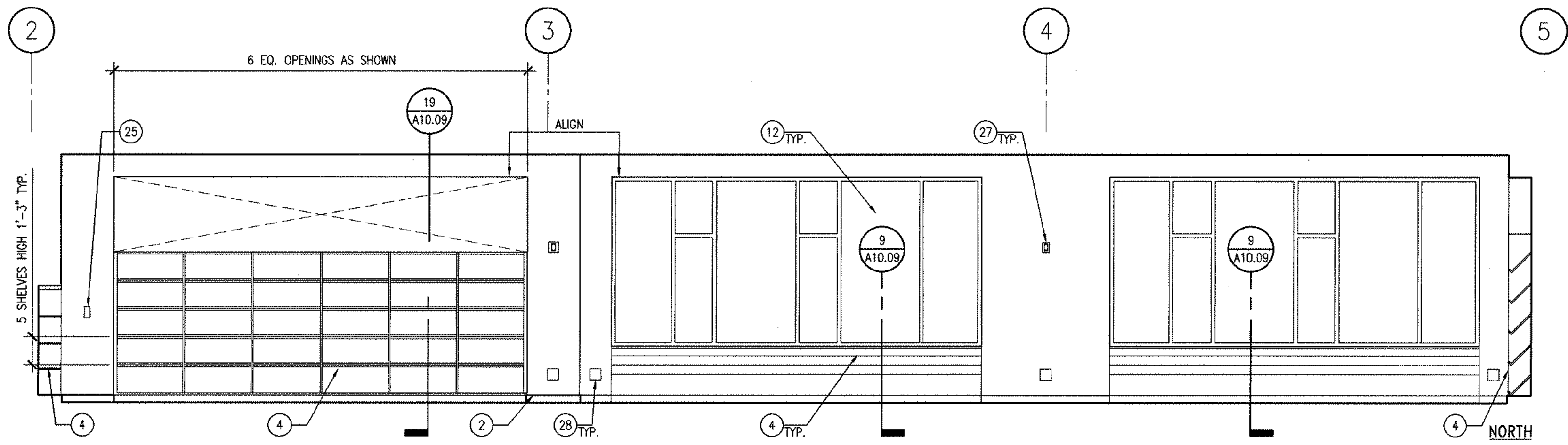
11-29-04 Updated Contract Documents

LICENSED ARCHITECT
 LINDA A. SQUIVA
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

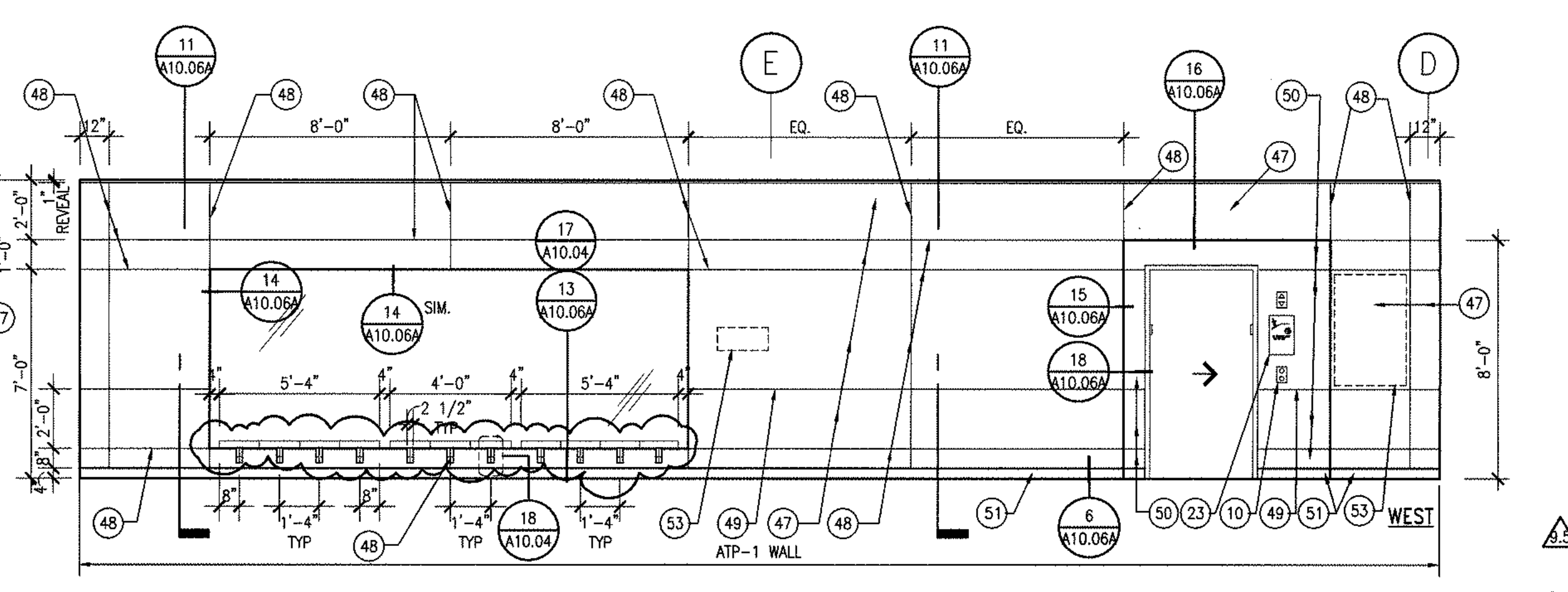
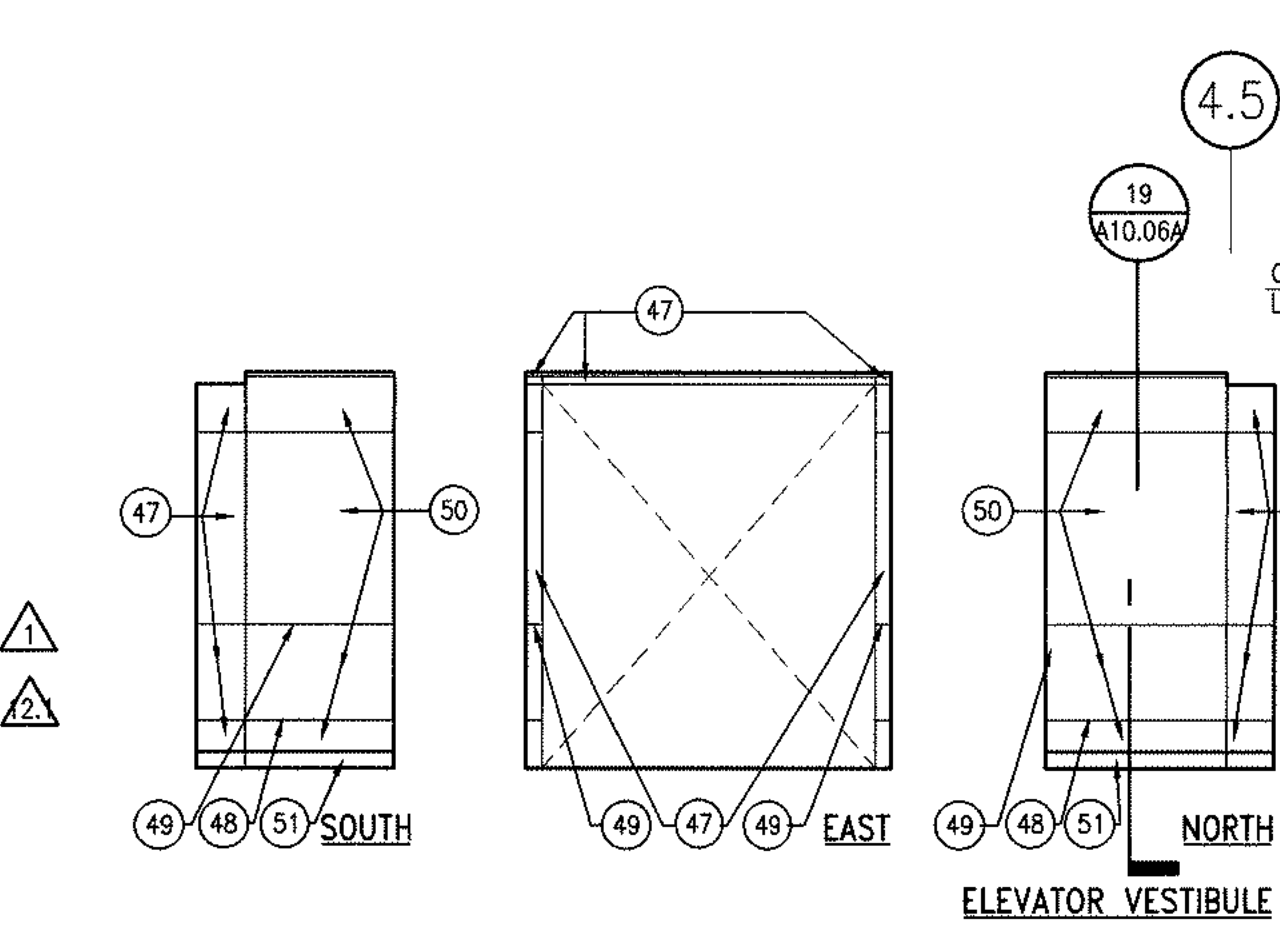
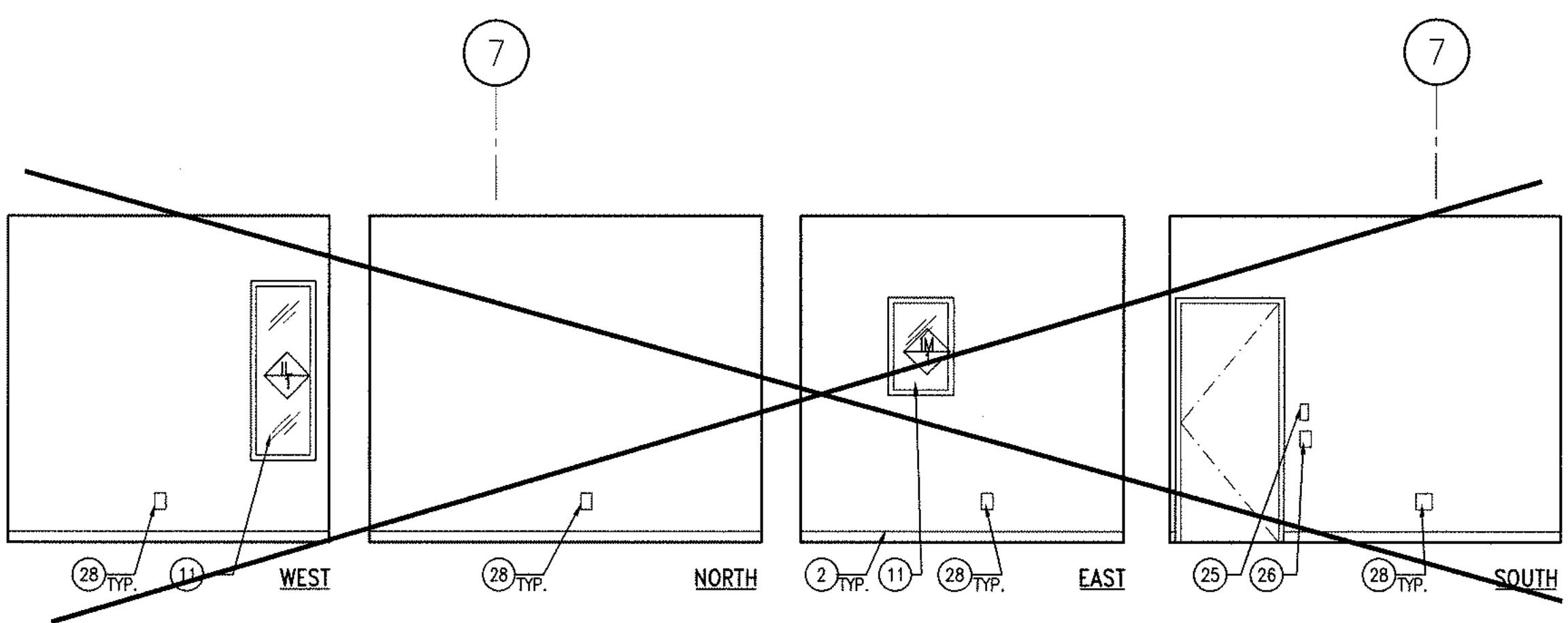
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 INTERIOR
 ELEVATIONS

SCALE: 1/4" = 1'-0"
 drawn by: LO/CM
 project number: 201114.00
 sheet number: A5.10

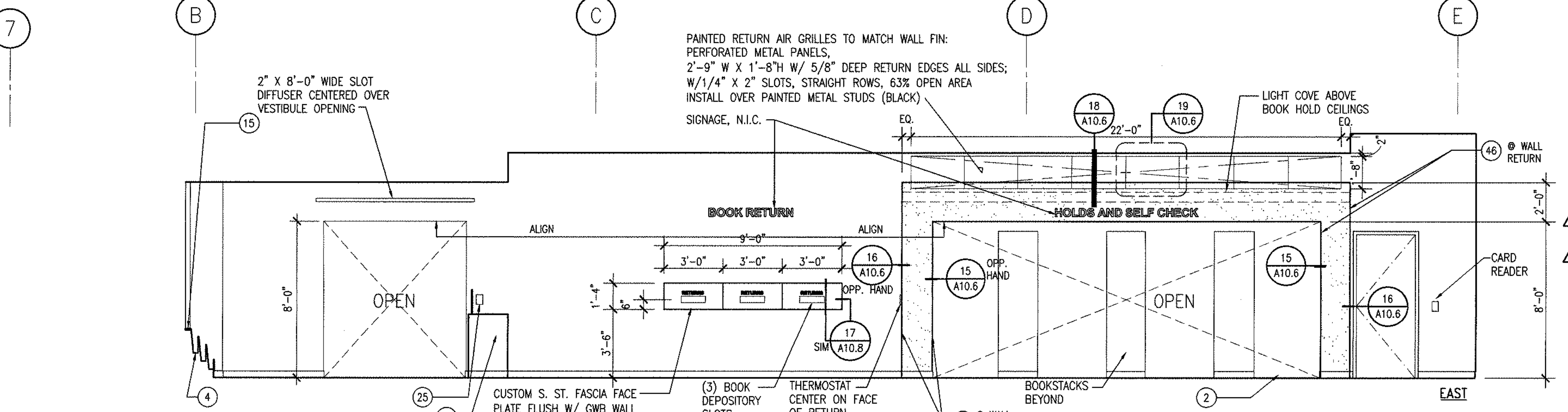
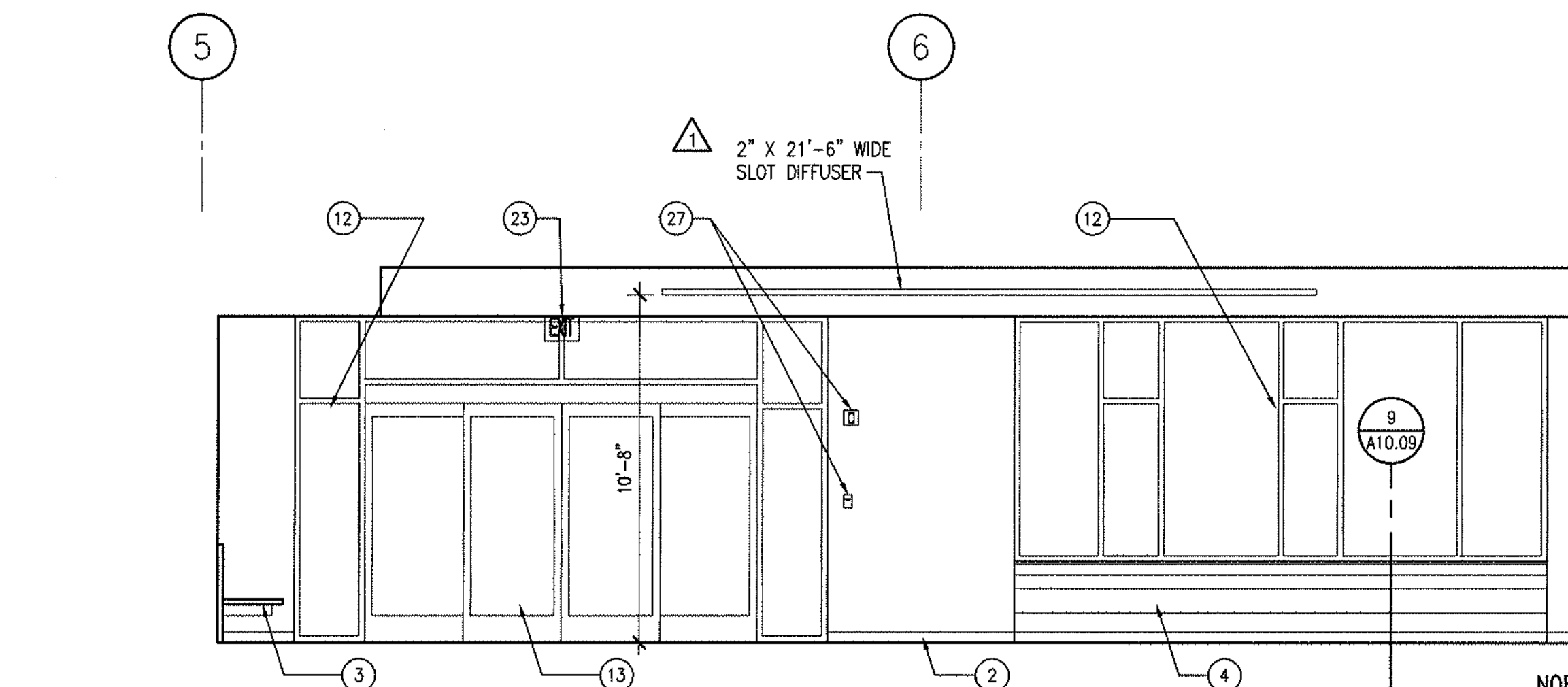


BROWSING SEATING 103 AND BROWSING STACKS 102
1/4"=1'-0"



AQUARIUM / ELEVATOR AREA (FIRST FLOOR)
1/4"=1'-0"

CIRCULATION SUPERVISOR'S OFFICE 142
1/4"=1'-0"



LOBBY 101
1/4"=1'-0"

- GENERAL NOTES**
- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
 - ALL FLOOR FINISH TO BE CARPET, U.O.N.
 - VERTICAL SURFACES ARE G.W.B., PTD. PT-1, U.O.N.
 - ALL EXPOSED STRUCTURAL STEEL, PTD. PT-11, U.O.N.
 - FOR LOCATION OF OUTLETS, SWITCHES & OTHER WALL MOUNTED DEVICES SEE 1/A5.10, U.O.N.

- KEYNOTES**
- STL. COL., S.S.D.
 - SCHEDULED WALL BASE, SEE FINISH SCHEDULE
 - BUILT-IN BENCH W/ HARDWOOD VENEER
 - CUSTOM CASEWORK
 - POWER & DATA WIREMOLD RACEWAY, S.E.D.
 - BOOK THEFT DETECTION SYSTEM
 - PLASTIC LAMINATE
 - ACCESSIBLE DRINKING FOUNTAIN
 - MAIN STAIR; STONE TREADS, GLASS RAIL, SEE A7.00
 - ELEVATOR CONTROLS
 - INTERIOR ALUMINUM FRAME GLAZING
 - EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
 - SCHEDULED DOOR AND FRAME, SEE FLOOR PLANS & DOOR SCHEDULE
 - 45° BOOK STACK, SEE STACK PLANS
 - PAINTED HARDWOOD SILL
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 - COOK TOP, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
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 - SECURITY EQUIPMENT, SEE TELECOM DWGS.
 - SPEAKER, SEE TELECOM DWGS.
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 - CUSTOM FABRIC CLING, SEE R.C.P.
 - TELEPHONE, SEE TELECOM DWGS.
 - CORNERGUARD
 - DOOR ACTUATOR
 - CHAIR RAIL
 - 3/8" X 1-1/4" S. STL. BAR DETECTABLE BARRIER
 - PARTIAL HEIGHT PARTITION
 - SHADE
 - SHADE MOUNTED ON DOOR; SEE 16/A9.04
 - ARTISAN VENEER PLASTER FINISH, SEE ROOM FINISH SCHEDULE / A10.00 FOR COLOR
 - ACRYLIC TRANSLUCENT PANEL, ACRYLIC PANEL MATERIAL OVER MDF; SEE INTERIOR FINISH LIST; BACK PAINT G.W.B. WALL BEHIND BLACK
 - 1/4" REVEAL
 - 3/16" ST. STEEL RAIL
 - WD-1 PANELS OVER G.W.B.
 - FLUSH STONE BASE
 - AQUARIUM TANK, N.I.C.
 - FUTURE PIN MOUNTED SIGNAGE, N.I.C.
 - 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 1 1/4" STONE CAP, ST-3

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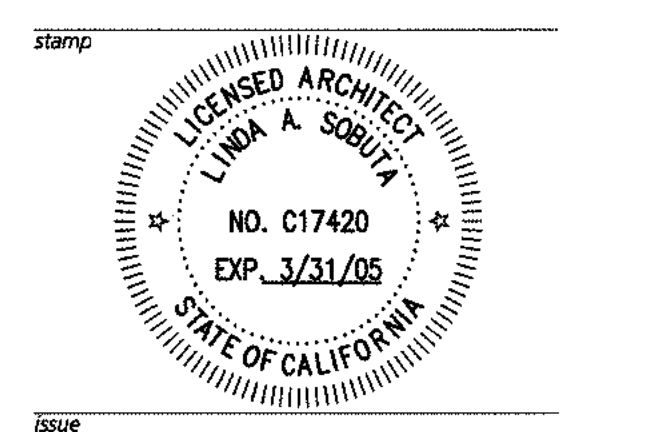
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NO.	DATE	ADDENDUM NO.
Δ	2003.05.07	ADDENDUM NO. 1
Δ	2003.11.24	CCD NO. 10.1
Δ	2004.02.04	CCD NO. 7.5
Δ	2004.06.02	CCD NO. 69

11-29-04 Updated Contract Documents



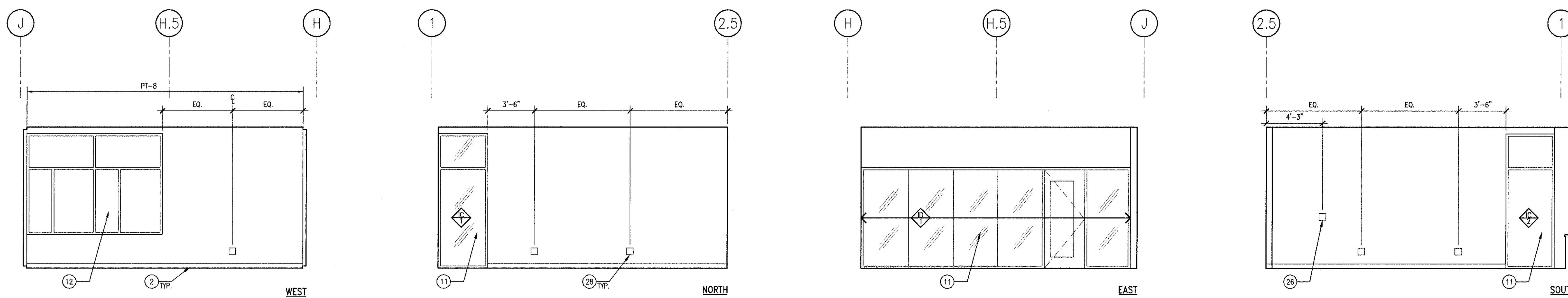
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LIBRARY INTERIOR ELEVATIONS

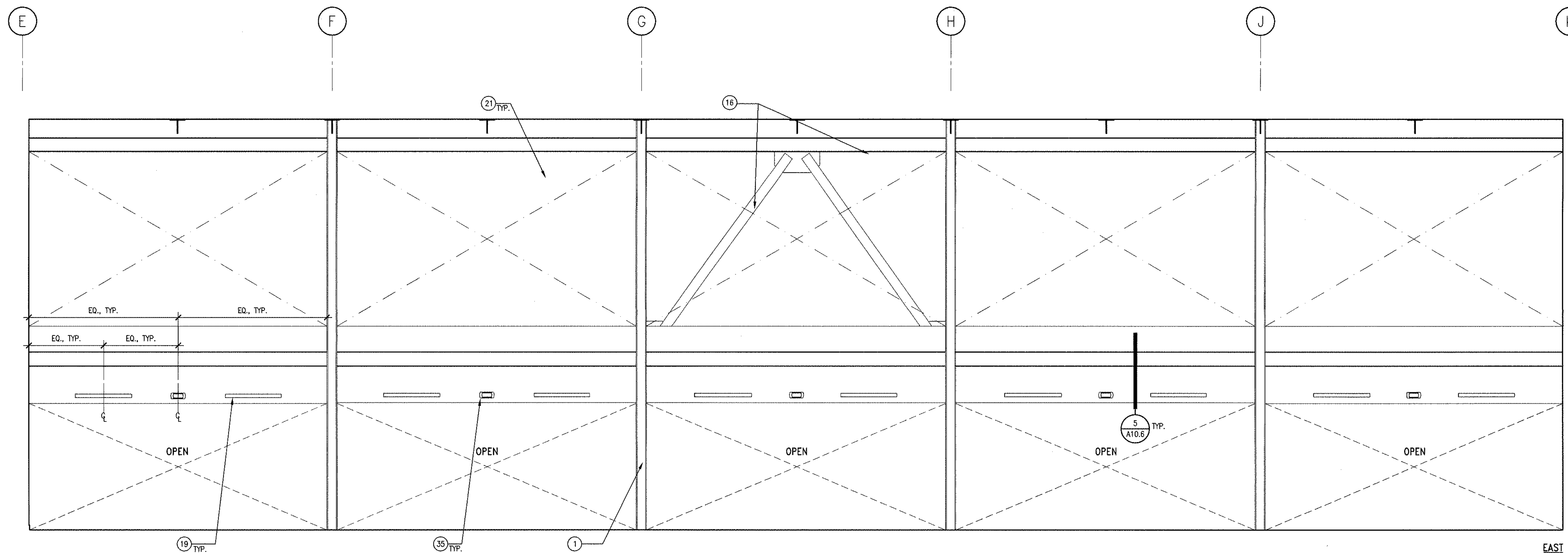
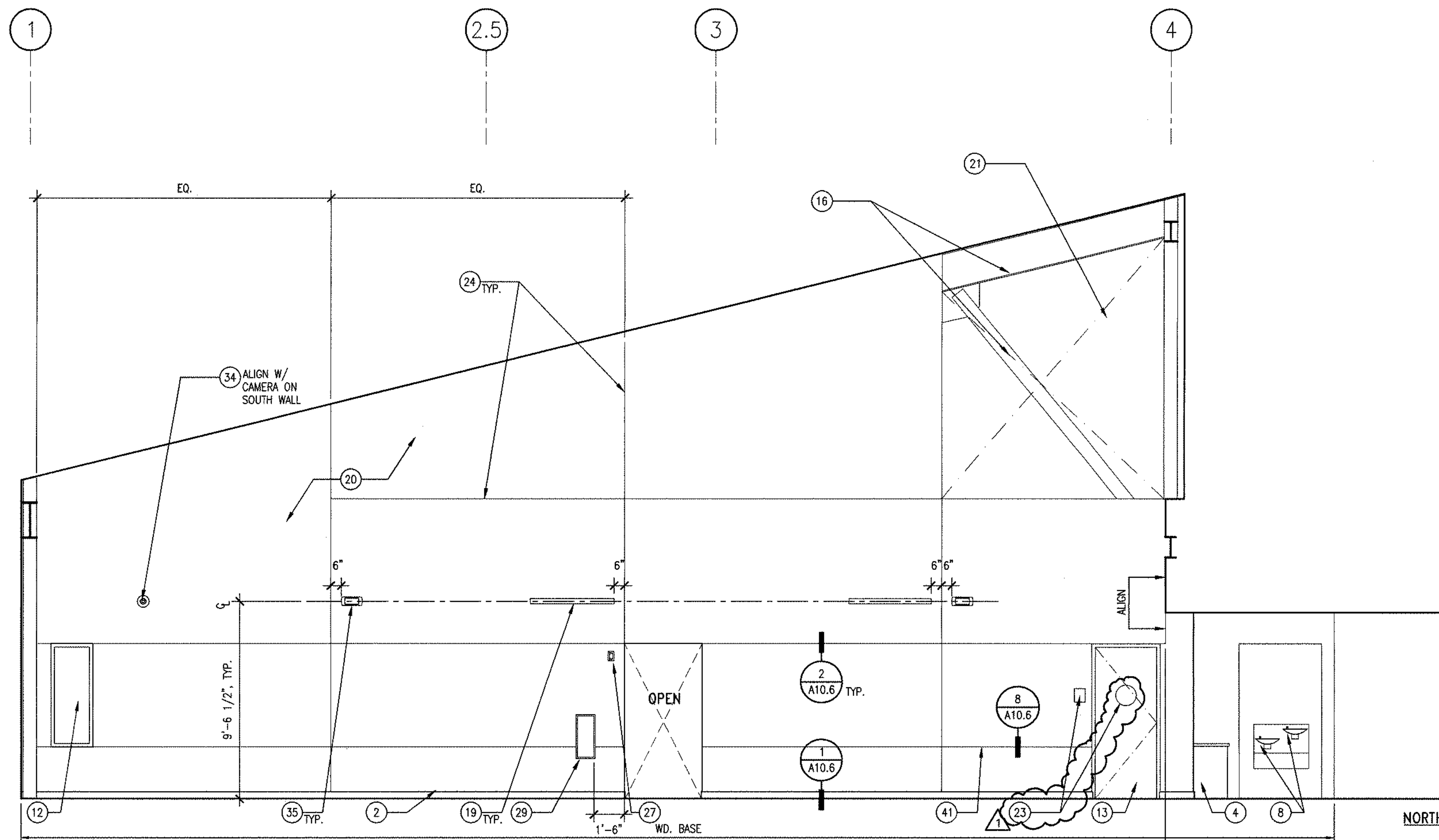
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date: 2003.04.18
drawn by: LJO/CM
project number: 20114.00
sheet number

A5.11

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CHILDREN'S GROUP STUDY 114
1/4"=1'-0" 2



NON-FICTION SHELVING 214
1/4"=1'-0" 1

- GENERAL NOTES
- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
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 - VERTICAL SURFACES ARE G.W.B., PTD. PT-1, U.O.N.
 - ALL EXPOSED STRUCTURAL STEEL PTD. PT-11, U.O.N.
 - FOR LOCATION OF OUTLETS, SWITCHES & OTHER WALL MOUNTED DEVICES SEE 1/A5.10, U.O.N.

- KEYNOTES
- STL. COL., S.S.D.
 - SCHEDULED WALL BASE, SEE FINISH SCHEDULE
 - BUILT-IN BENCH W/ HARDWOOD VENEER
 - CUSTOM CASEWORK
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 - BOOK THEFT DETECTION SYSTEM
 - PLASTIC LAMINATE
 - ACCESSIBLE DRINKING FOUNTAIN
 - MAIN STAIR; STONE TREADS, GLASS RAIL, SEE A7.00
 - ELEVATOR CONTROLS
 - INTERIOR ALUMINUM FRAME GLAZING
 - EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
 - SCHEDULED DOOR AND FRAME, SEE FLOOR PLANS & DOOR SCHEDULE
 - 45" BOOK STACK, SEE STACK PLANS
 - PAINTED HARDWOOD SILL
 - STRUCTURAL STEEL, PAINTED
 - BULLETIN BOARD WALL COVERING
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 - CLERESTORY WINDOW
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 - COOK TOP, O.F.C.I.- VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - 90" BOOK STACK, SEE STACK PLANS
 - SECURITY EQUIPMENT, SEE TELECOM DWGS.
 - SPEAKER, SEE TELECOM DWGS.
 - MECHANICAL DUCT, PAINTED, S.M.D.
 - CUSTOM FABRIC CLNG, SEE R.C.P.
 - TELEPHONE, SEE TELECOM DWGS.
 - CORNERGUARD
 - DOOR ACTUATOR
 - CHAIR RAIL
 - 3/8" X 1-1/4" S. STL. BAR DETECTABLE BARRIER
 - PARTIAL HEIGHT PARTITION
 - SHADE
 - SHADE MOUNTED ON DOOR; SEE 16/A9.04
 - ARTISAN VENEER PLASTER FINISH; SEE ROOM FINISH SCHEDULE / A10.00 FOR COLOR
 - ACRYLIC TRANSLUCENT PANEL; ACRYLIC PANEL MATERIAL OVER MDF; SEE INTERIOR FINISH LIST; BACK PAINT G.W.B. WALL BEHIND BLACK
 - 1/4" REVEAL
 - 3/16" ST. STEEL RAIL
 - WD-1 PANELS OVER G.W.B.
 - FLUSH STONE BASE
 - AQUARIUM TANK, N.I.C.
 - FUTURE PIN MOUNTED SIGNAGE, N.I.C.
 - 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 1 1/4" STONE CAP, ST-3

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916 435 2410 F

Hargreaves
Associates
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San Francisco, CA 94103
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415 865 1810 F

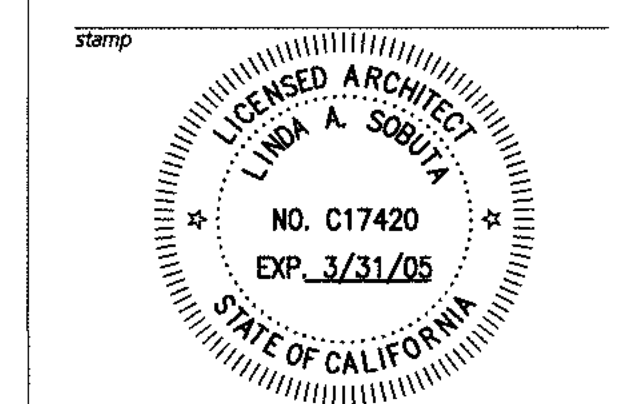
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San Francisco, CA 94105
415 398 3833 T
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2003.05.07 ADDENDUM NO. 1

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Contract Documents



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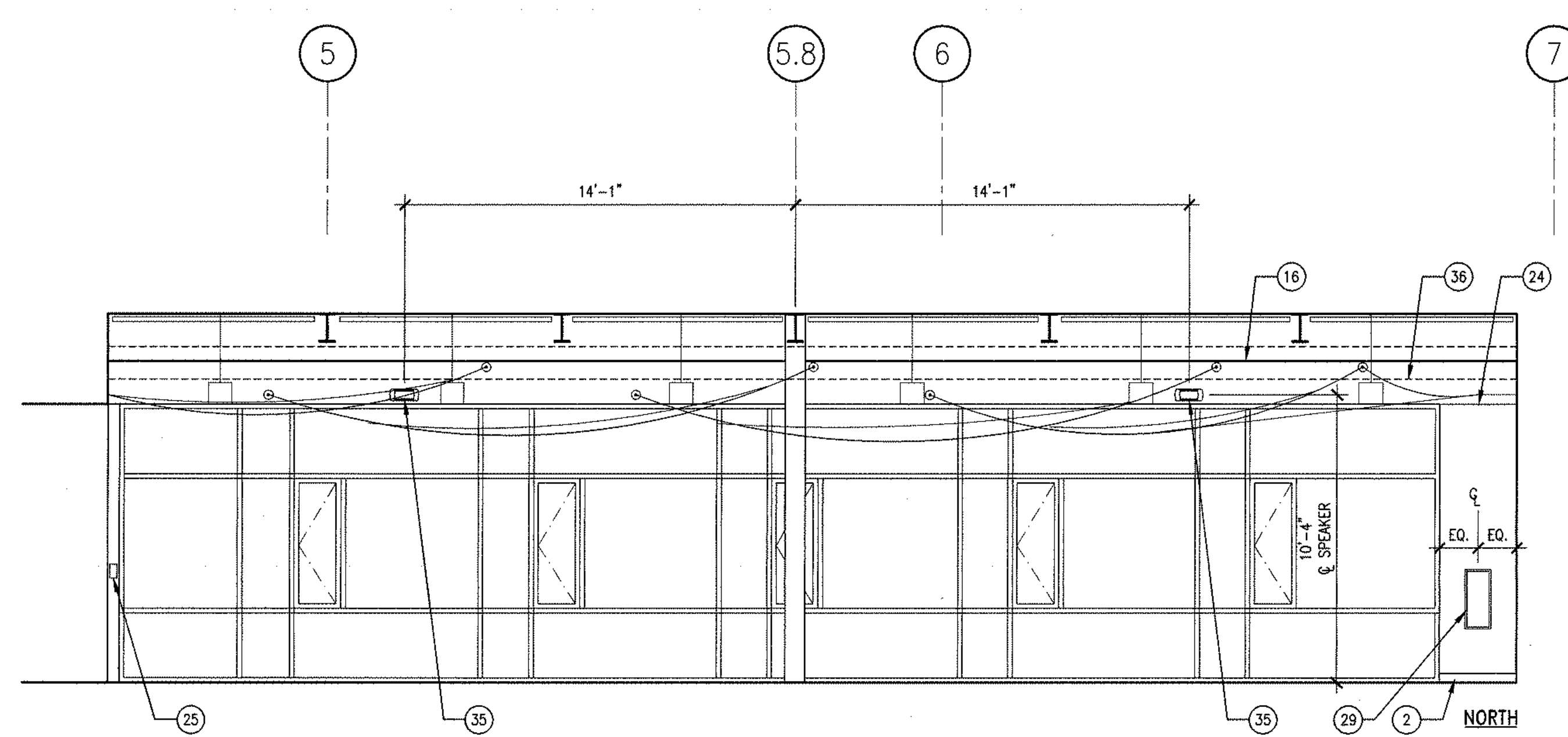
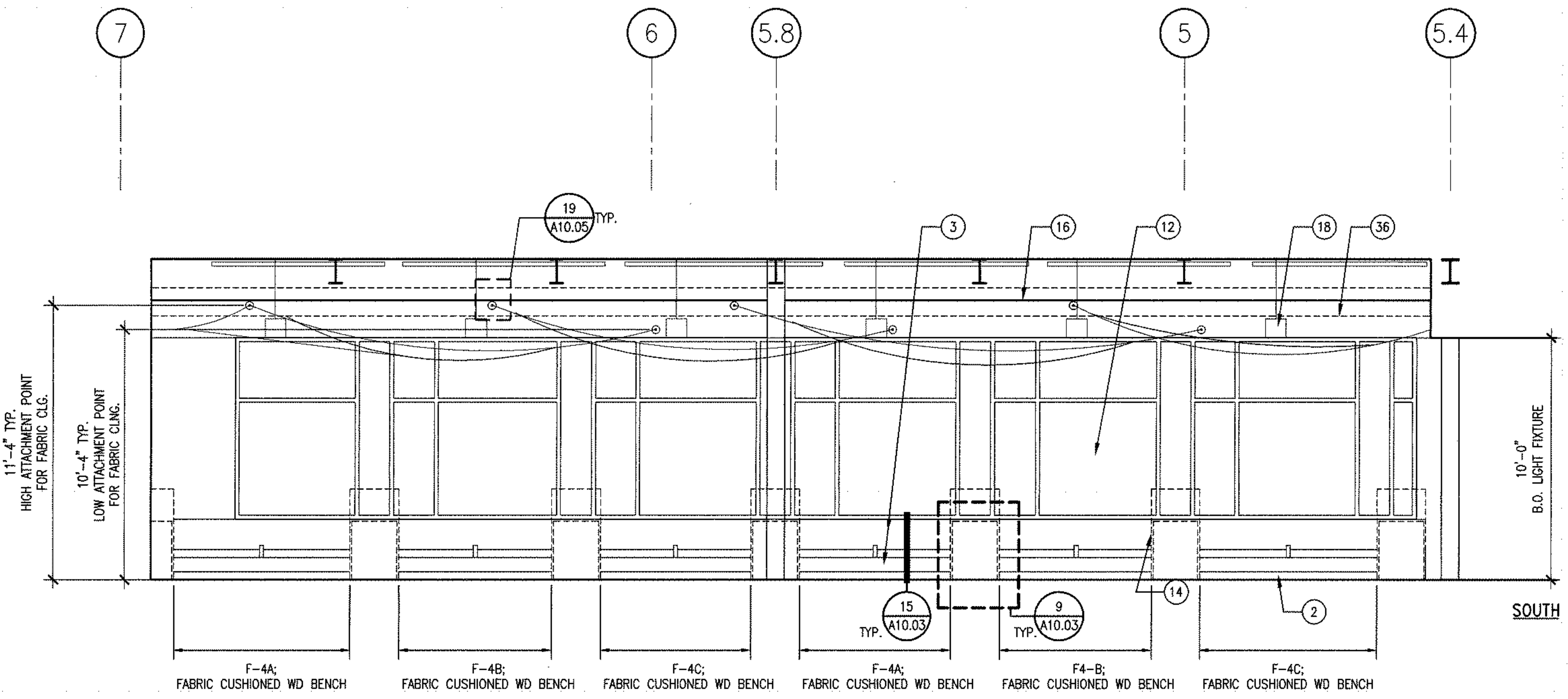
LIBRARY
INTERIOR
ELEVATIONS

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drawn by LG/CM project number 20114.00
sheet number

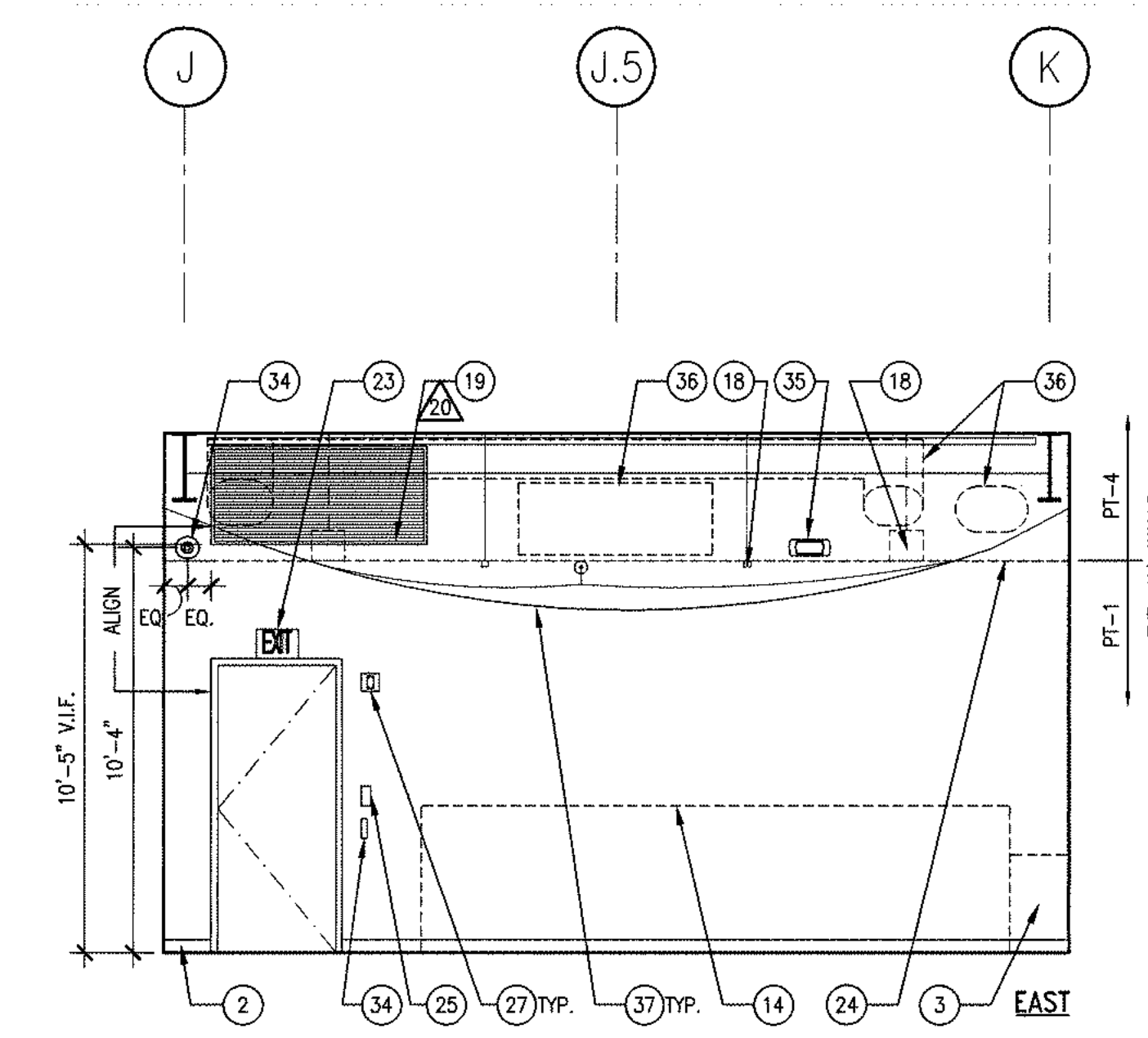
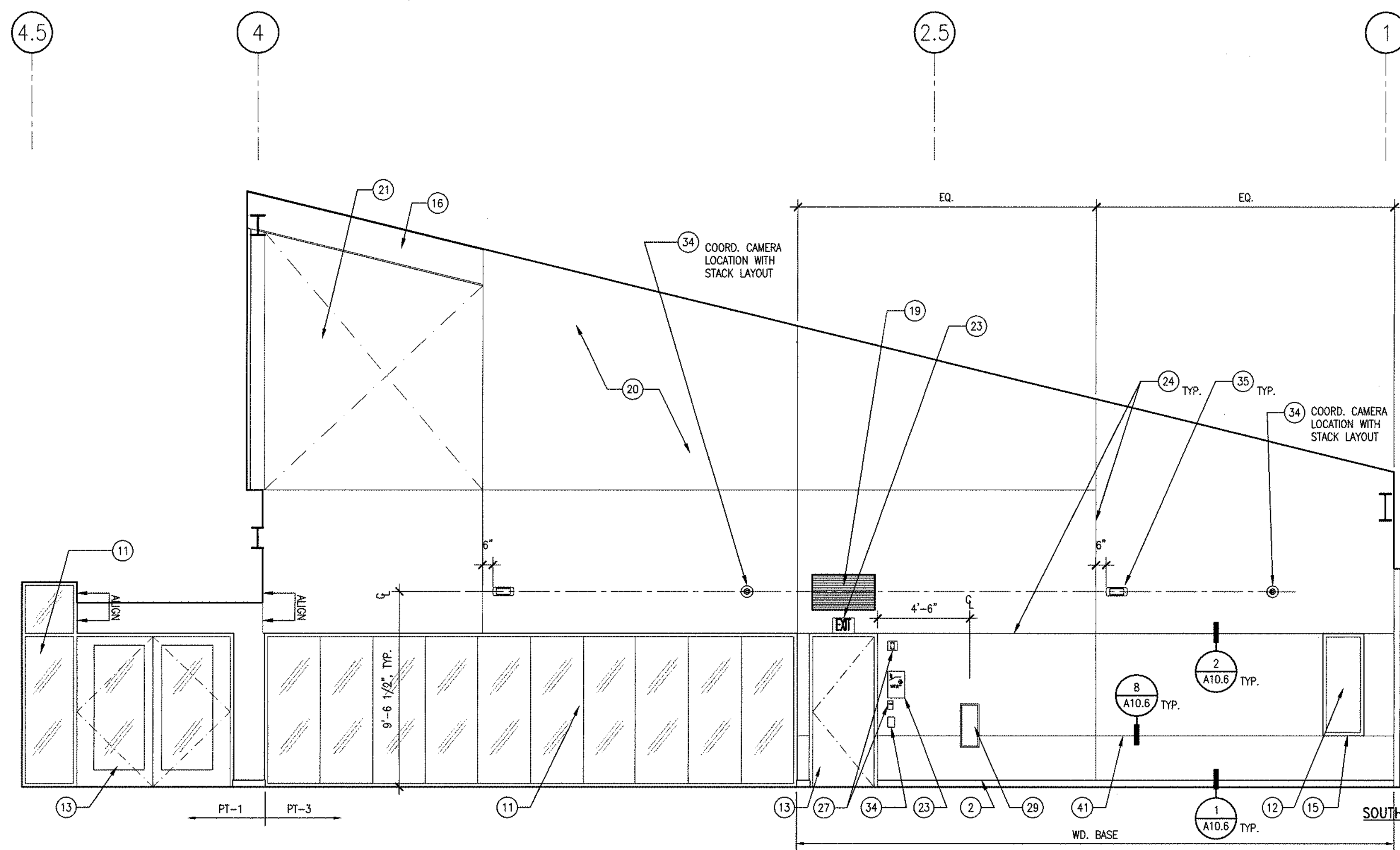
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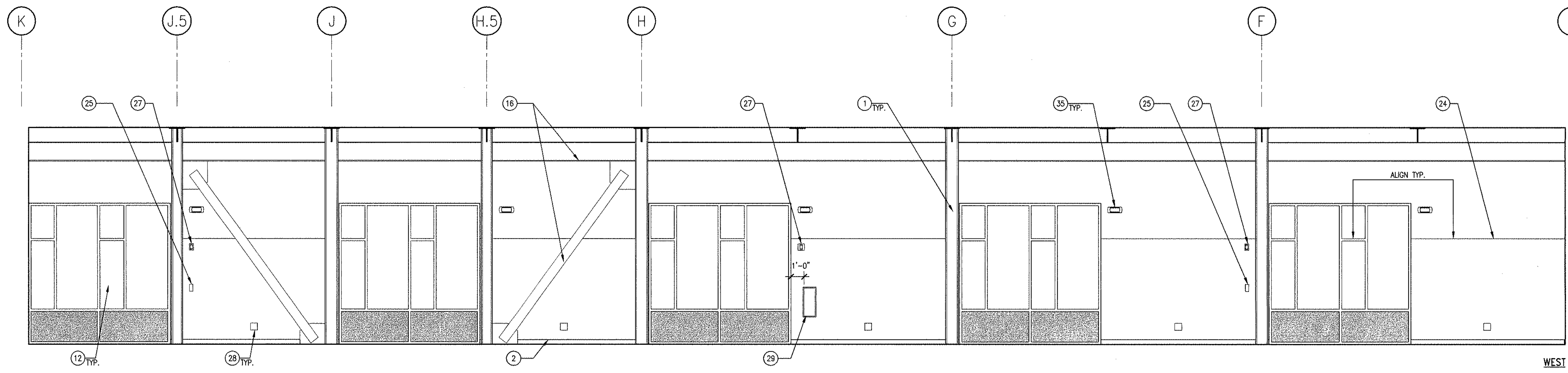
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CHILDREN'S PICTURE BOOKS 121
1/4"=1'-0"



CHILDREN'S PICTURE BOOKS 121
1/4"=1'-0"



NON-FICTION SHELVING 214
1/4"=1'-0"

- GENERAL NOTES
- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
 - ALL FLOOR FINISH TO BE CARPET, U.O.N.
 - VERTICAL SURFACES ARE G.W.B., PTD. PT-1, U.O.N.
 - ALL EXPOSED STRUCTURAL STEEL PTD. PT-11, U.O.N.
 - FOR LOCATION OF OUTLETS, SWITCHES & OTHER WALL MOUNTED DEVICES SEE 1/A5.10, U.O.N.

- KEYNOTES
- STL. COL., S.S.D.
 - SCHEDULED WALL BASE, SEE FINISH SCHEDULE
 - BUILT-IN BENCH W/ HARDWOOD VENEER
 - CUSTOM CASEWORK
 - POWER & DATA WIREMOLD RACEWAY, S.E.D.
 - BOOK THEM DETECTION SYSTEM
 - PLASTIC LAMINATE
 - ACCESSIBLE DRINKING FOUNTAIN
 - MAIN STAIR: STONE TREADS, GLASS RAIL, SEE A7.00
 - ELEVATOR CONTROLS
 - INTERIOR ALUMINUM FRAME GLAZING
 - EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
 - SCHEDULED DOOR AND FRAME, SEE FLOOR PLANS & DOOR SCHEDULE
 - 45" BOOK STACK, SEE STACK PLANS
 - PAINTED HARDWOOD SILL
 - STRUCTURAL STEEL, PAINTED
 - BULLETIN BOARD WALL COVERING
 - LIGHT FIXTURE, SEE R.C.P. FOR LAYOUT, S.E.D. FOR FIXTURE TYPES
 - MECHANICAL REGISTER PTD., S.M.D.
 - ARTISAN VENEER PLASTER
 - CLERESTORY WINDOW
 - FABRIC WRAPPED ACOUSTICAL PANEL
 - SIGNAGE
 - 1/4" ALUMINUM REVEAL
 - THERMOSTAT, S.M.D.
 - ELECTRICAL SWITCH, S.E.D.
 - FIRE ALARM EQUIP., S.E.D.
 - OUTLET, S.E.D.
 - RECESSED FIRE EXTINGUISHER CABINET
 - DISHWASHER, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - REFRIGERATOR, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - COOK TOP, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - 90" BOOK STACK, SEE STACK PLANS
 - SECURITY EQUIPMENT, SEE TELECOM DWGS.
 - SPEAKER, SEE TELECOM DWGS.
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 - FLUSH STONE BASE
 - AQUARIUM TANK, N.I.C.
 - FUTURE PIN MOUNTED SIGNAGE, N.I.C.
 - 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 1 1/4" STONE CAP, ST-3

SWAIN architecture interiors planning graphic design

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408 777 3354 T
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Sandis Humber Jones
380 Menlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
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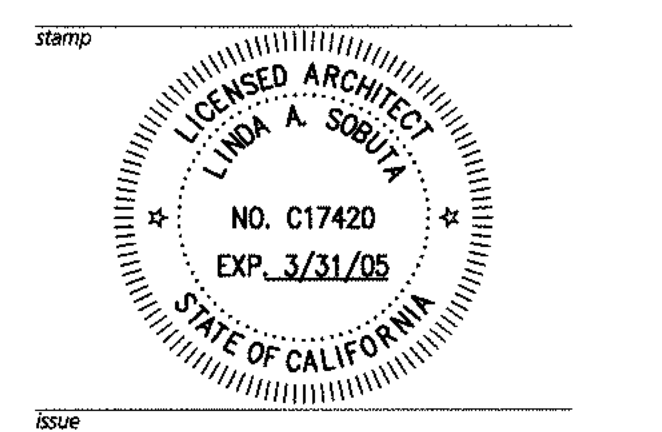
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160 Fine Street
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415 837 0700 T
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405 Howard Street
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San Francisco, CA 94105
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LIBRARY INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"
drawn by: LG/CM
sheet number: 2003.04.18 project number: 20114.00

A5.13

GENERAL NOTES

- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
- ALL FLOOR FINISH TO BE CARPET, U.O.N.
- VERTICAL SURFACES ARE G.W.B., PTD. PT-1, U.O.N.
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- KEYNOTES
- STL. COL., S.S.D.
 - SCHEDULED WALL BASE, SEE FINISH SCHEDULE
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 - CUSTOM CASEWORK
 - POWER & DATA WIREMOLD RACEWAY, S.E.D.
 - BOOK THEFT DETECTION SYSTEM
 - PLASTIC LAMINATE
 - ACCESSIBLE DRINKING FOUNTAIN
 - MAIN STAIR; STONE TREADS, GLASS RAIL, SEE A7.00
 - ELEVATOR CONTROLS
 - INTERIOR ALUMINUM FRAME GLAZING
 - EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
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 - 45" BOOK STACK, SEE STACK PLANS
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 - SIGNAGE
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 - OUTLET, S.E.D.
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 - COOK TOP, O.F.C.L.- VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
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 - 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 1 1/4" STONE CAP, ST-3

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City of
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 408 777 3354 T
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Sandis Humber Jones
 590 Menlo Drive, Suite 1
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 916 435 2400 T
 916 435 2410 F

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 Associates
 2020 17th Street
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REVISIONS	DATE	DESCRIPTION
2	2004.08.16	CCD NO. 92

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stamp

ISSUE
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LIBRARY
 INTERIOR
 ELEVATIONS

SCALE
 1/4" = 1'-0"

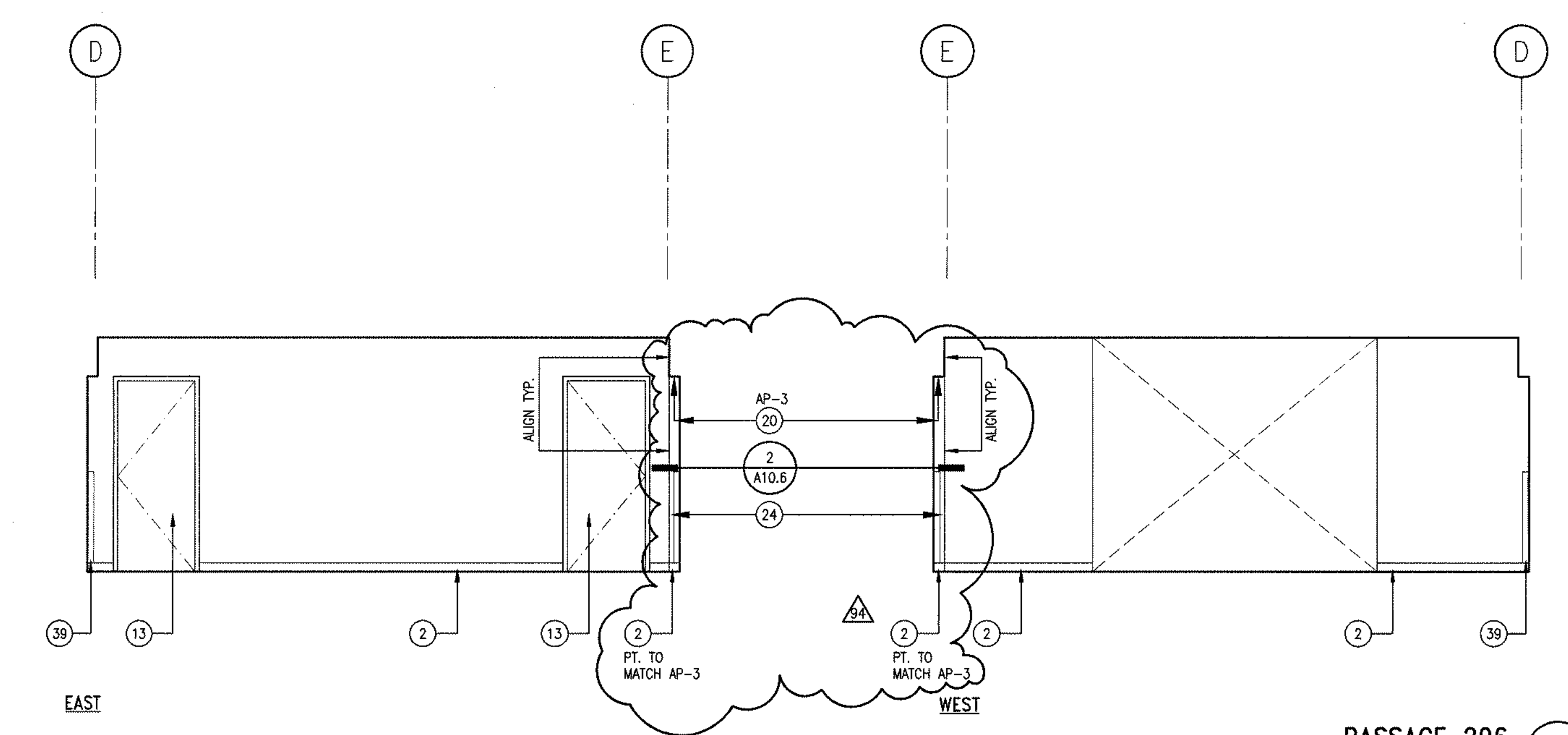
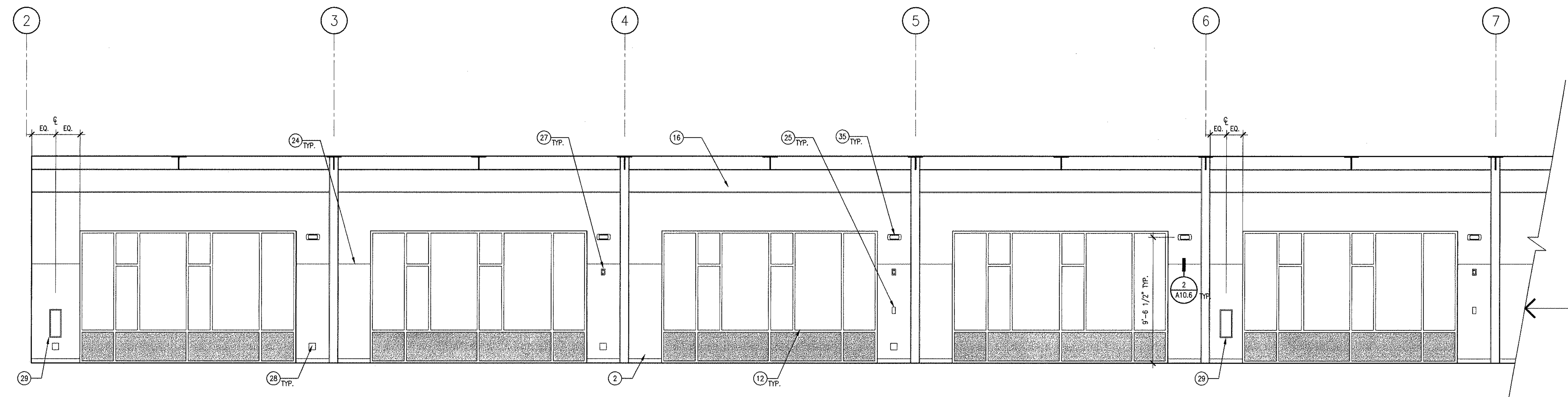
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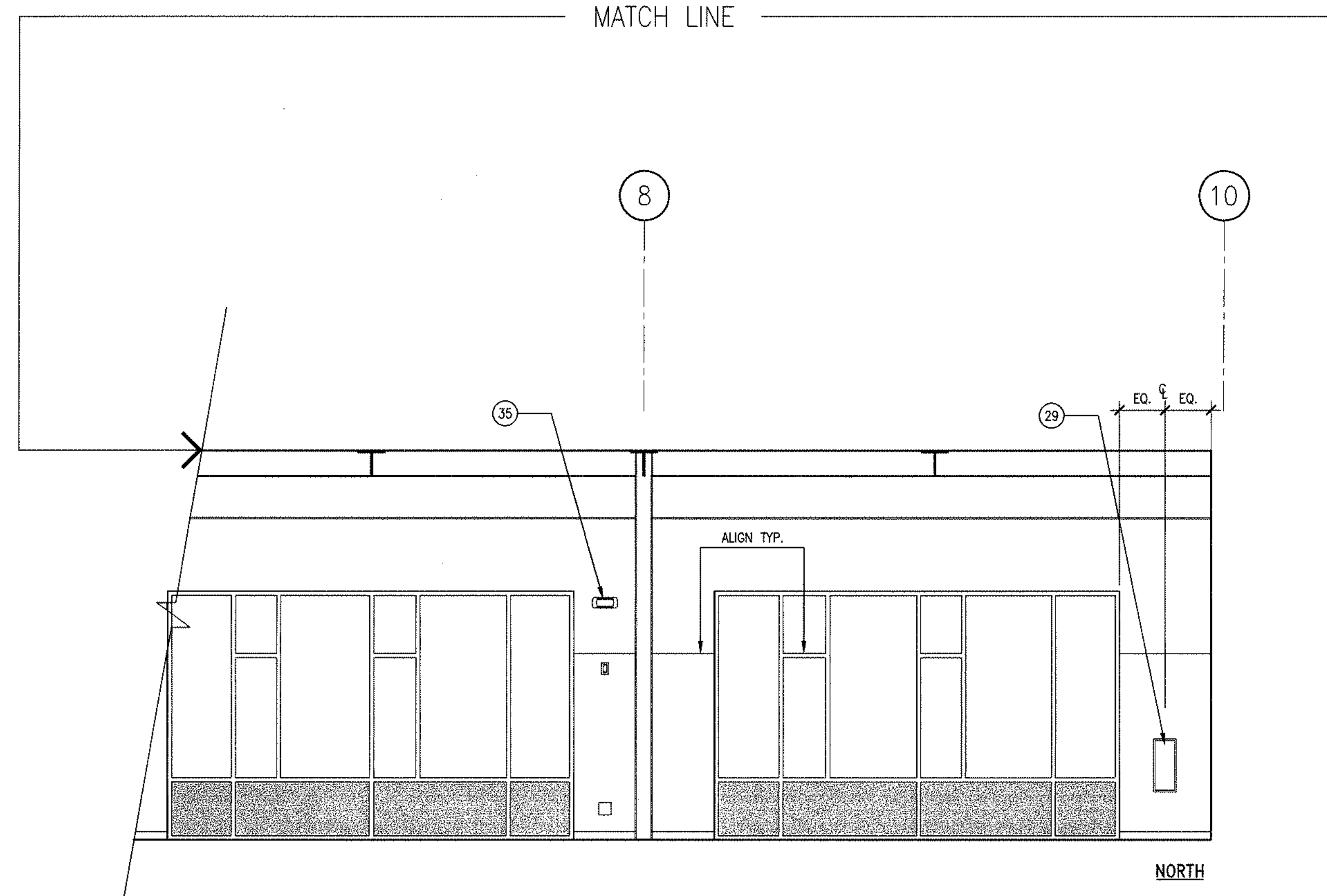
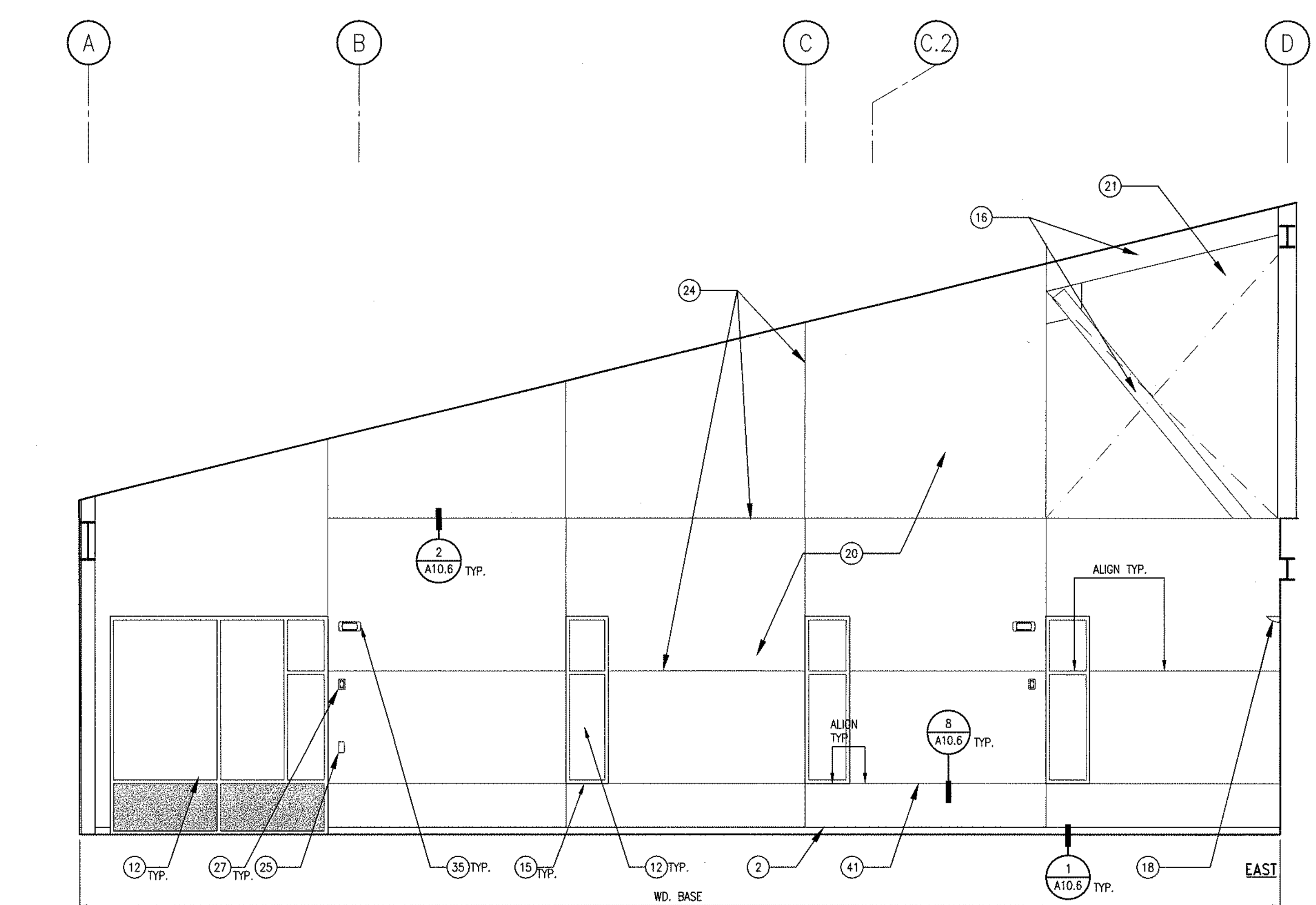
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 20114.00

SHEET NUMBER
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A5.14



PASSAGE 206
 1/4"=1'-0" 2



NORTH

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 - 1/2" POINT SUPPORTED GLASS, TEMPERED
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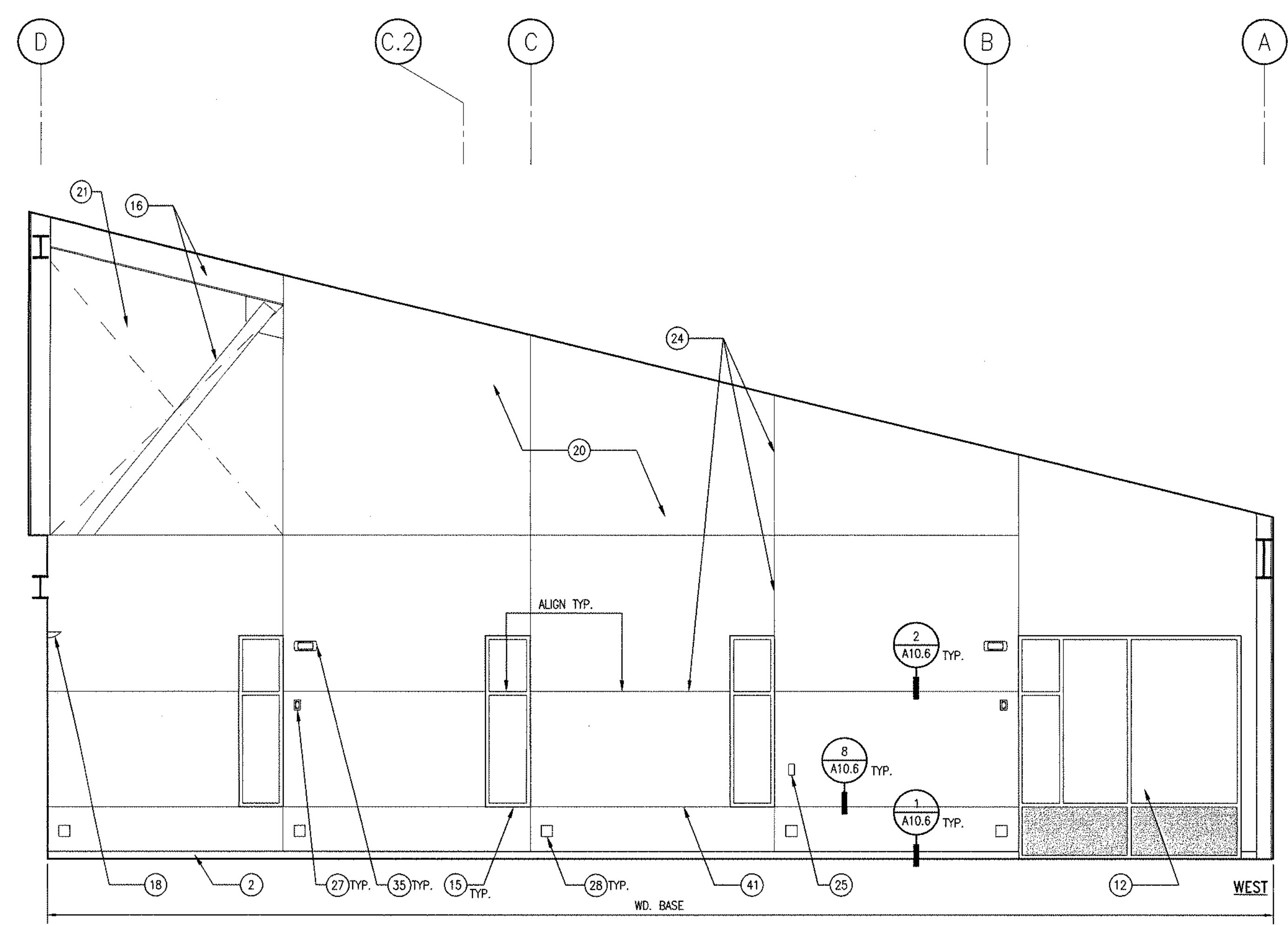
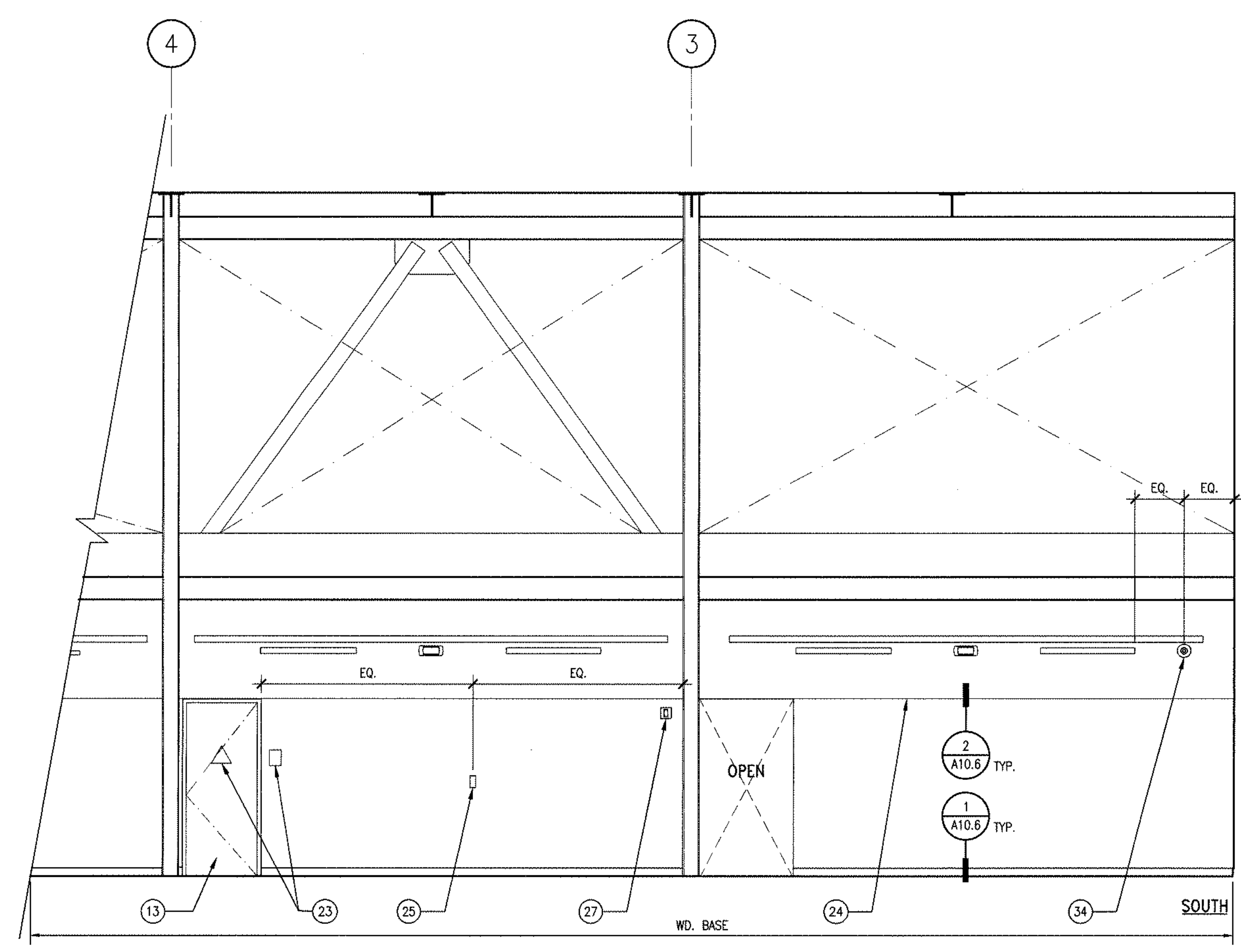
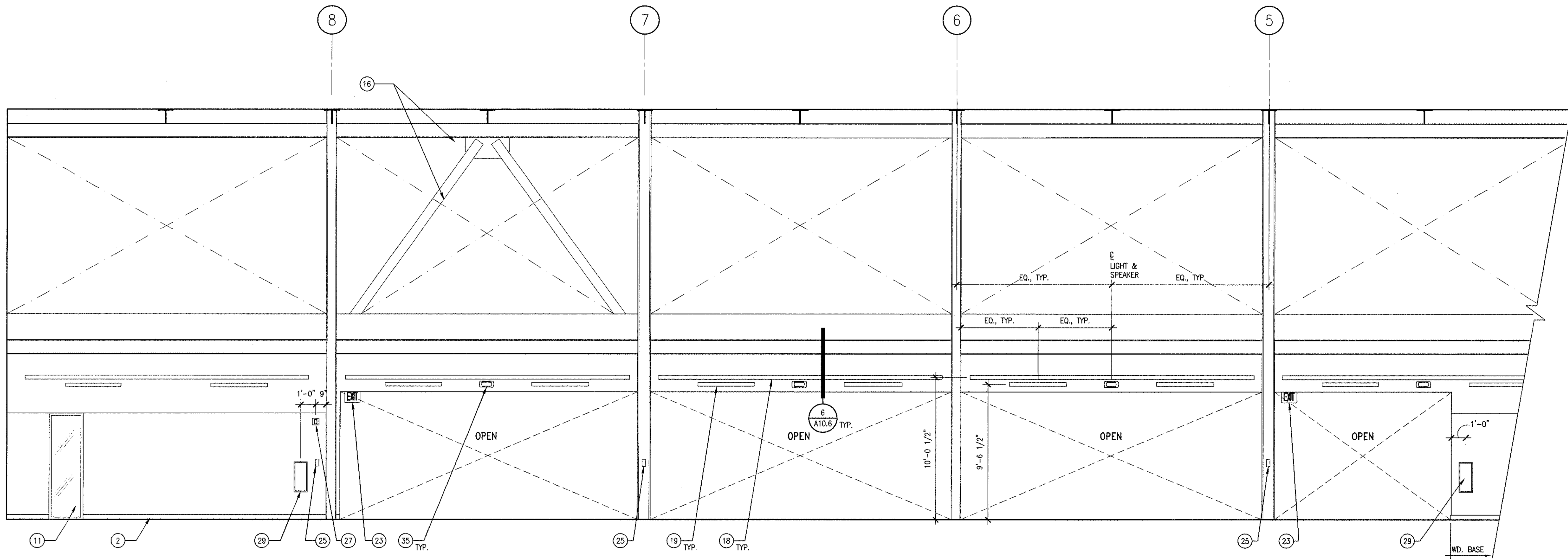
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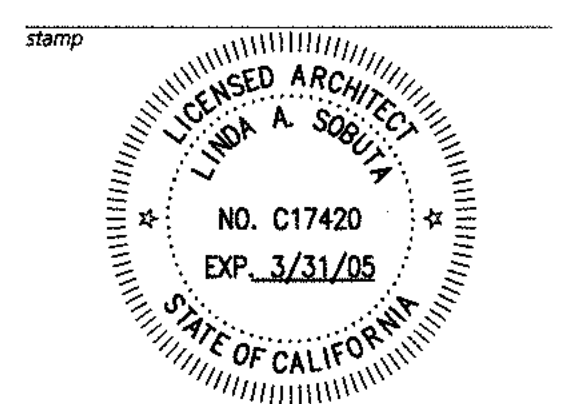
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 Contract Documents

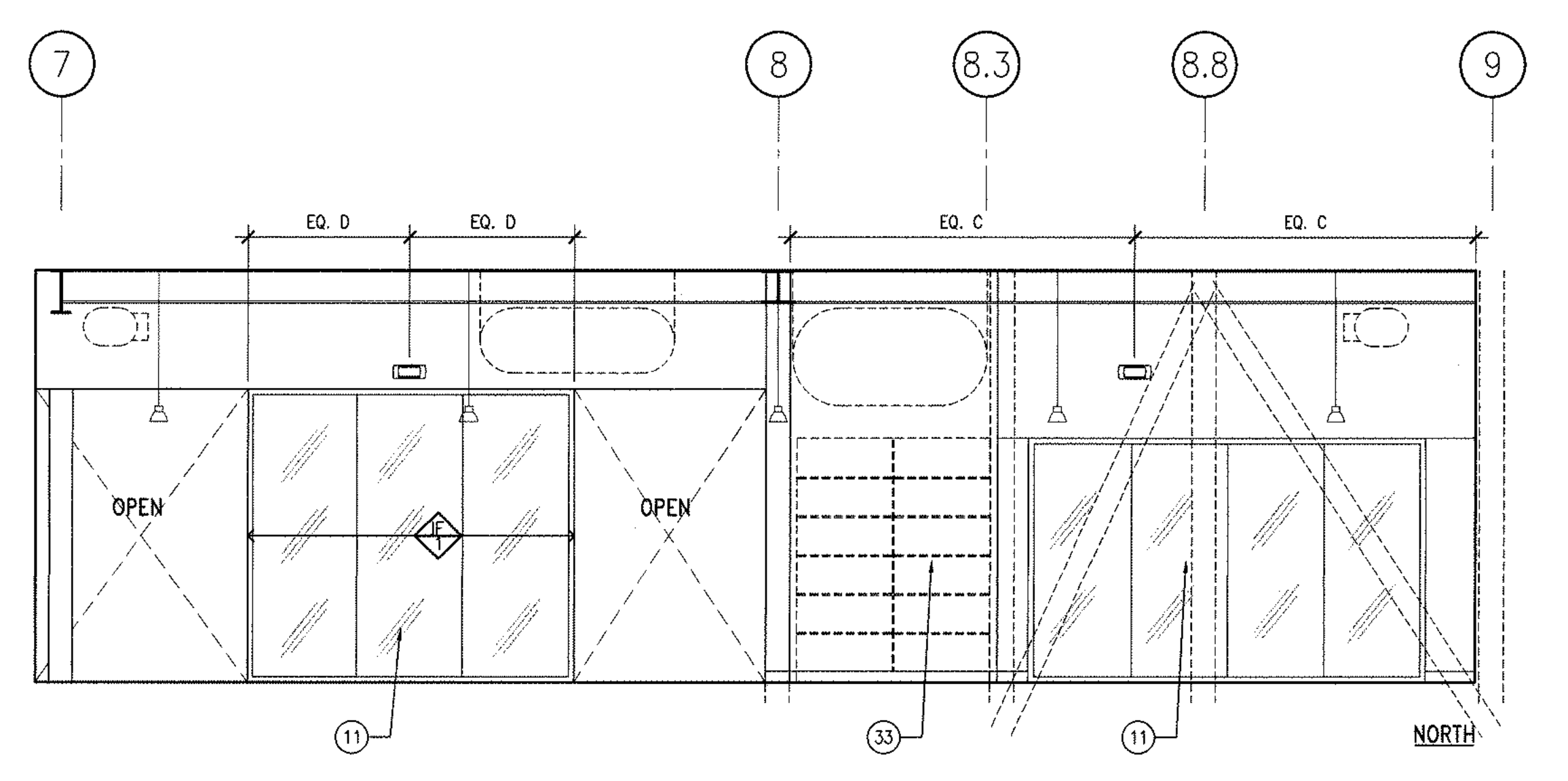
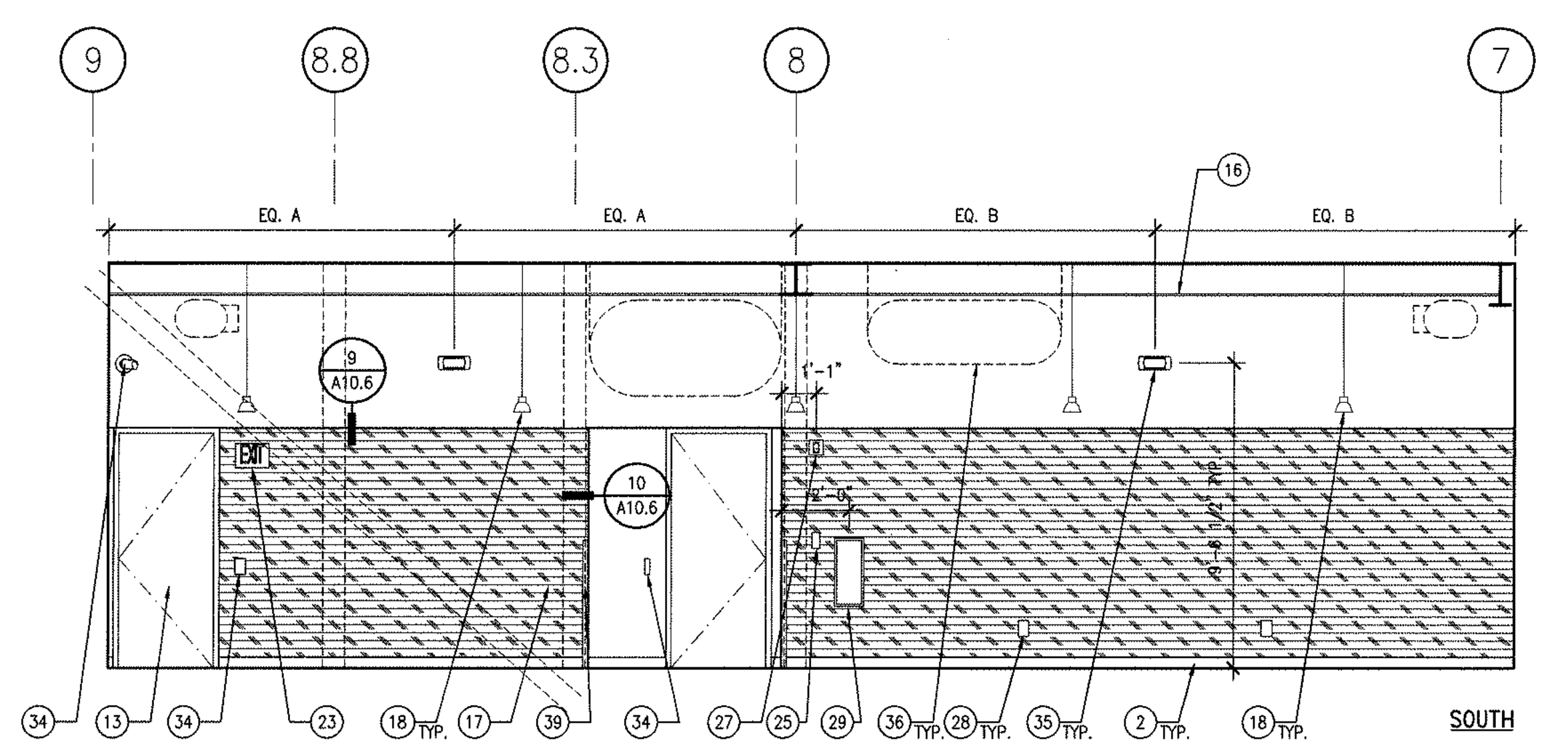
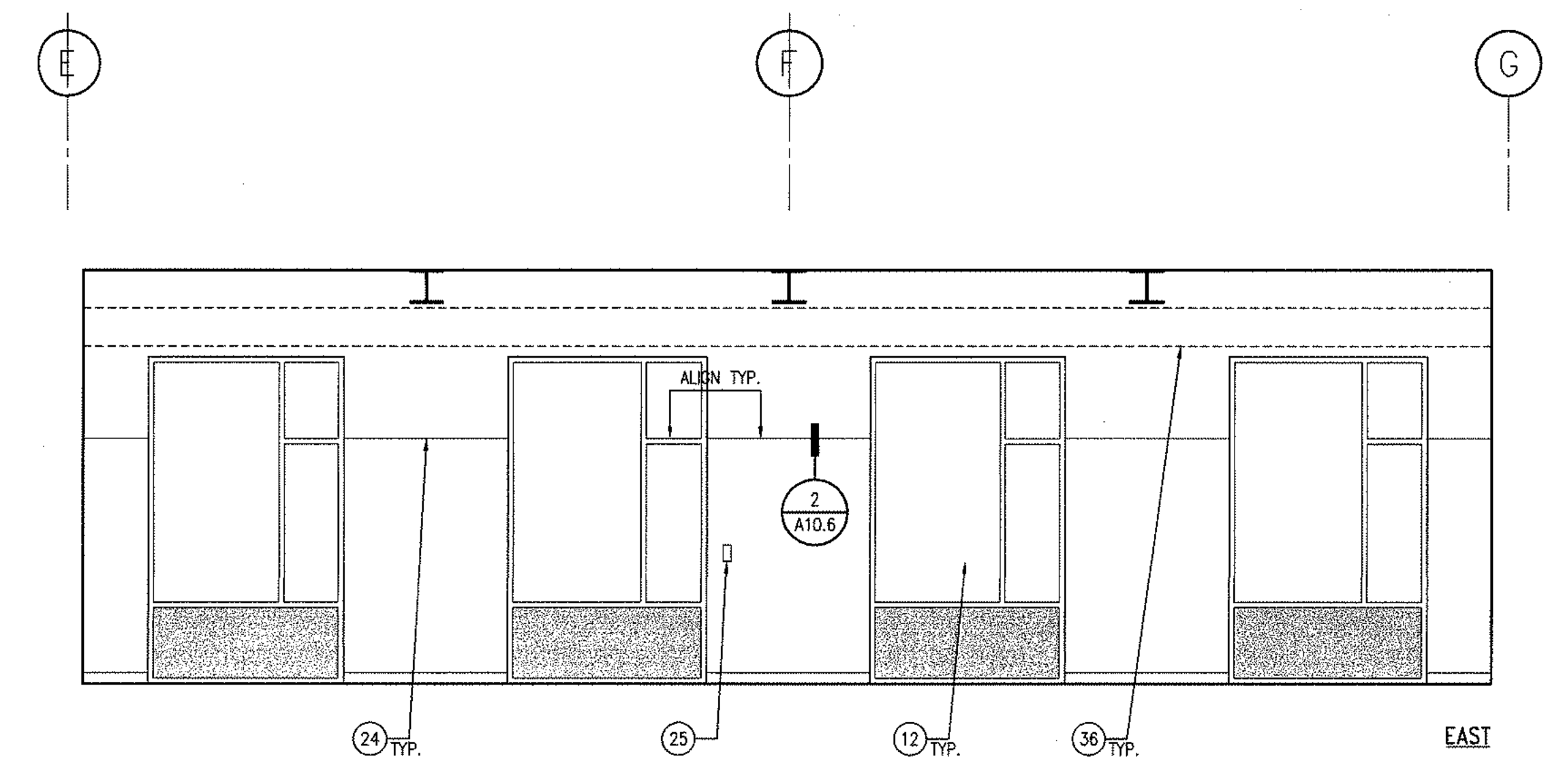
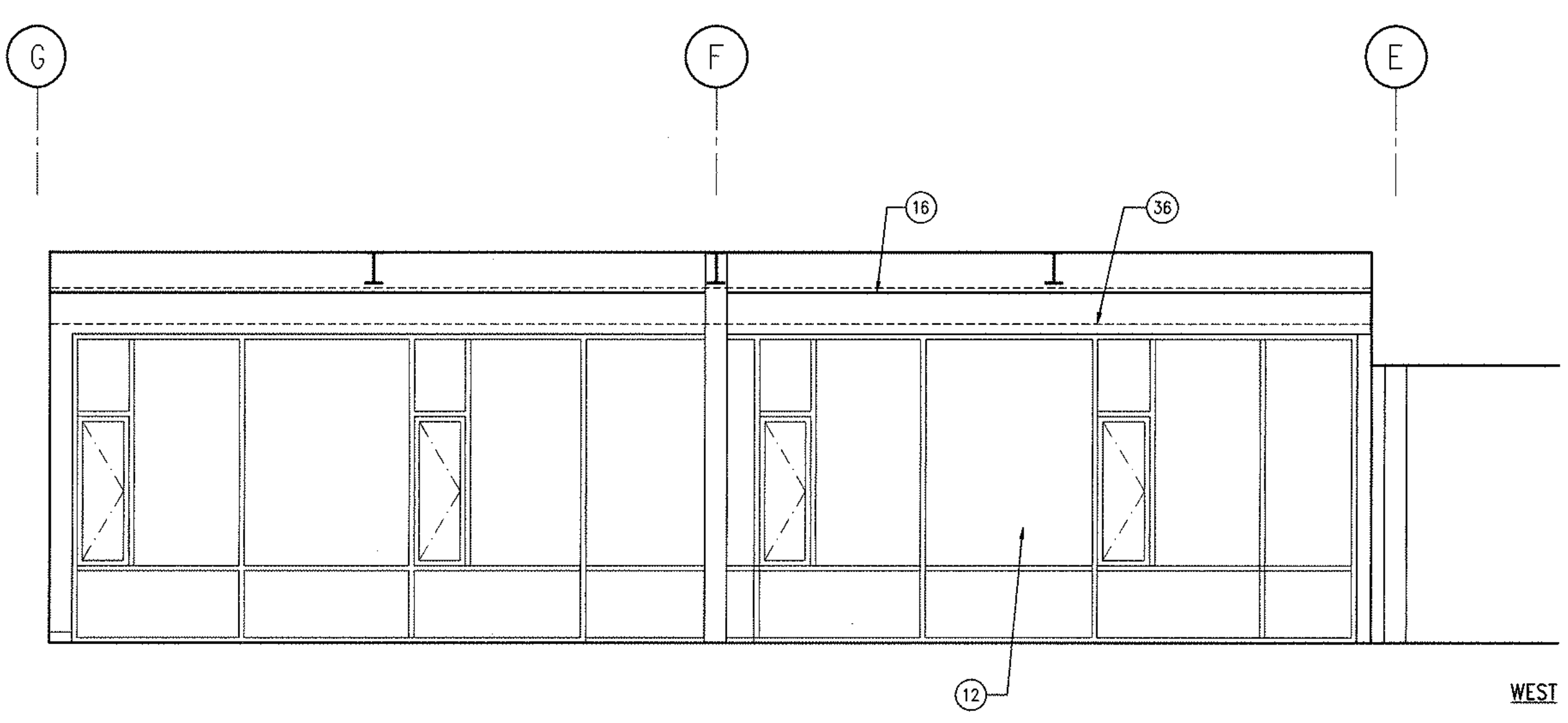


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LIBRARY
 INTERIOR
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 Sheet number: 20114.00

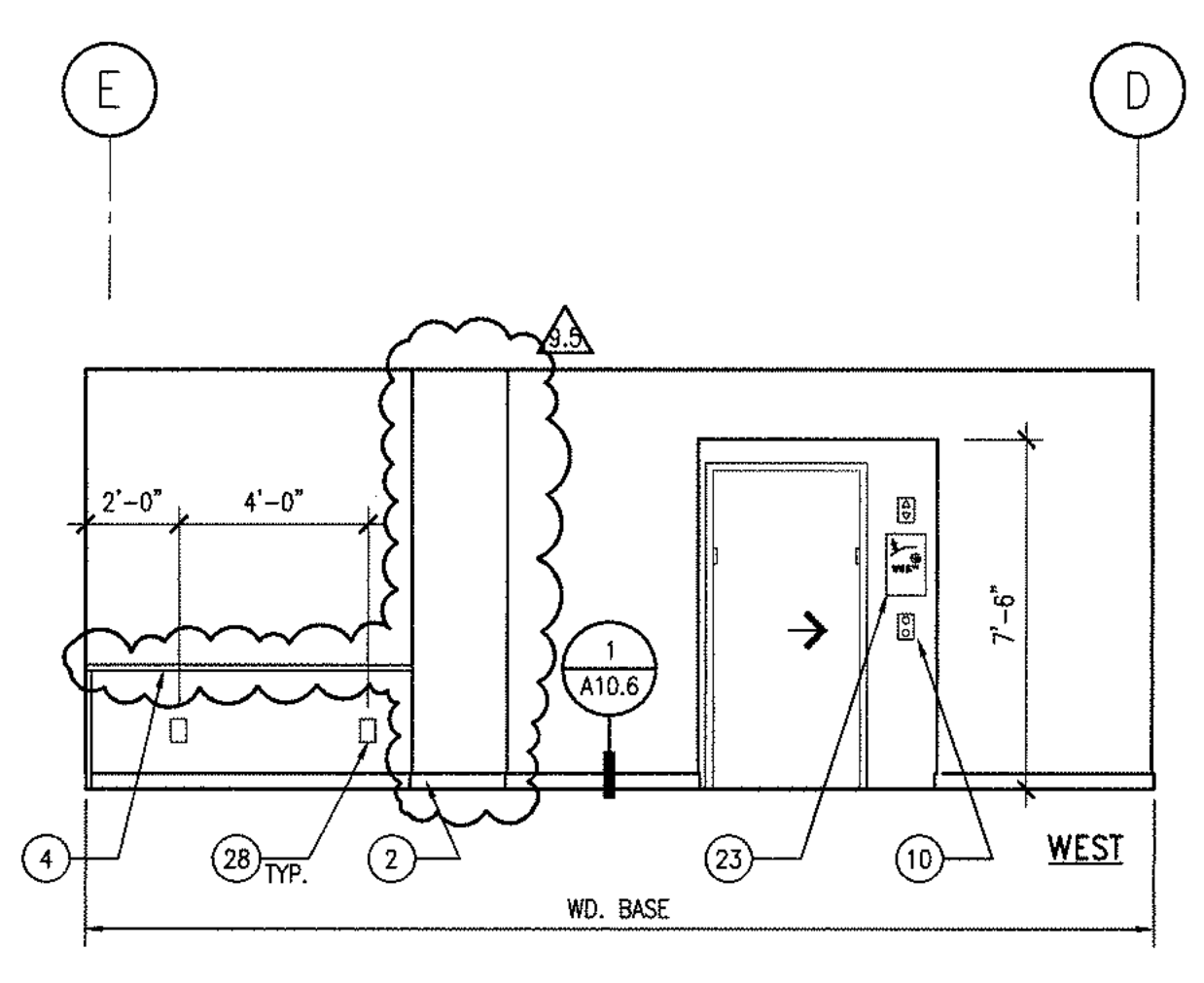
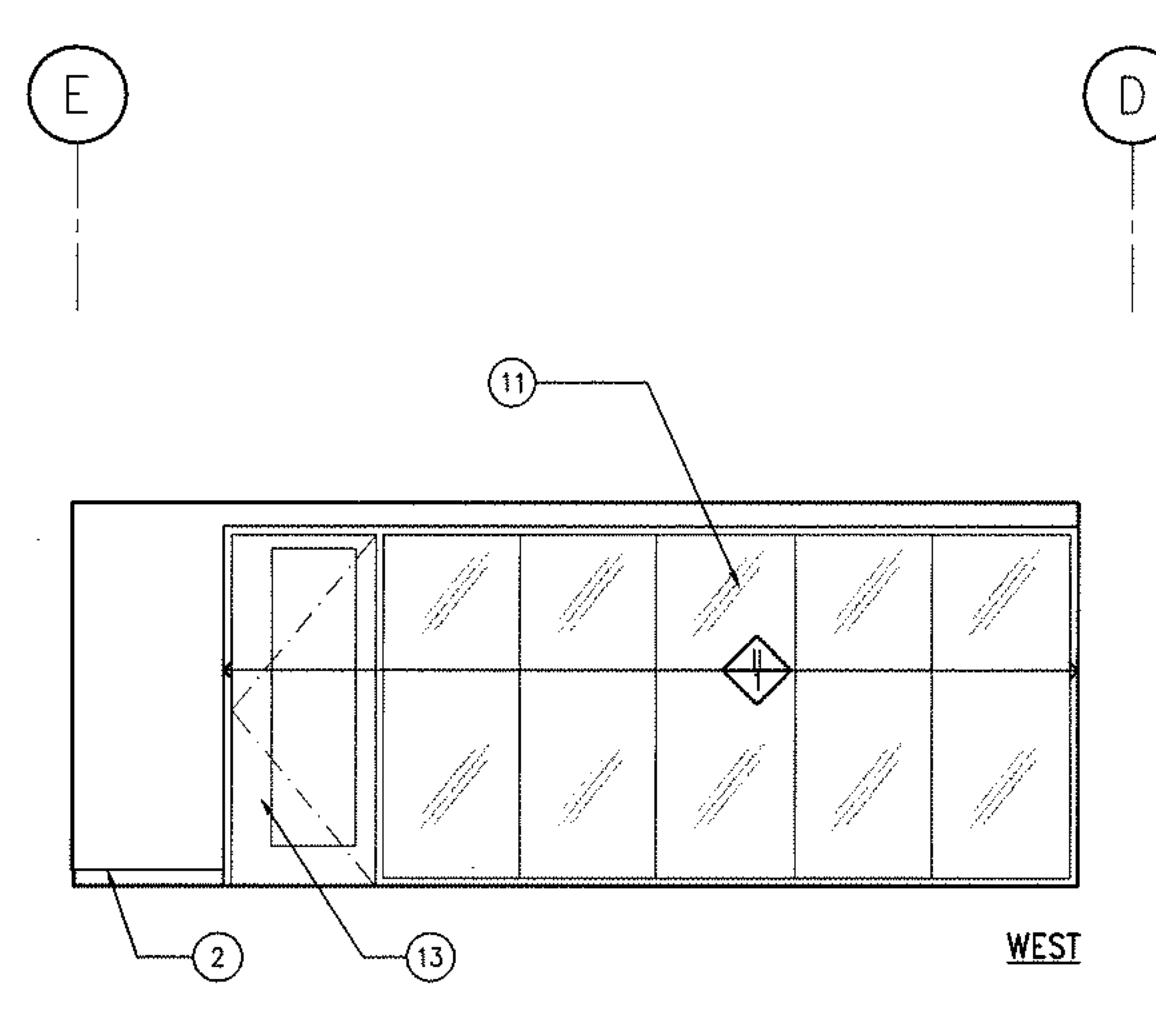
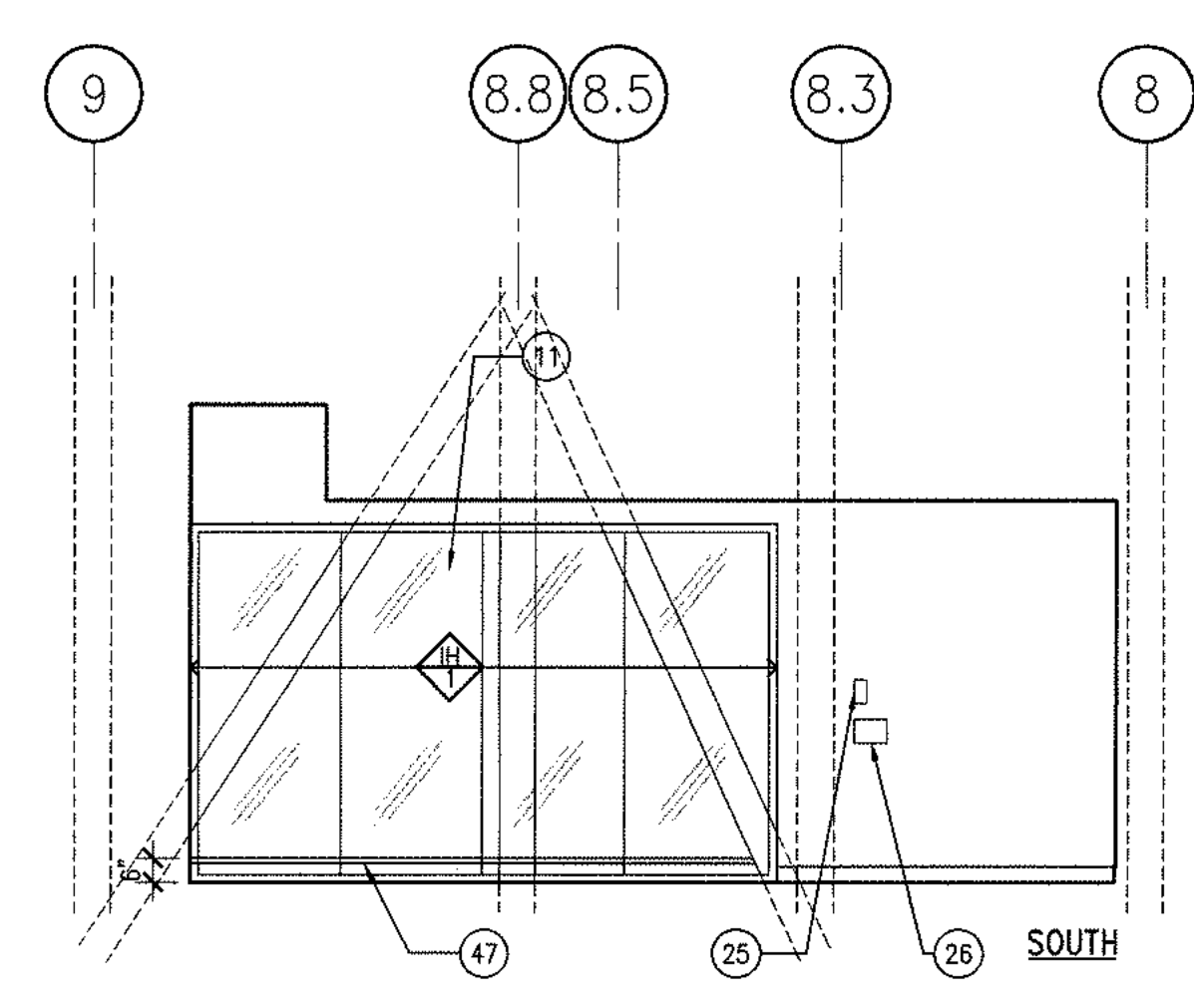
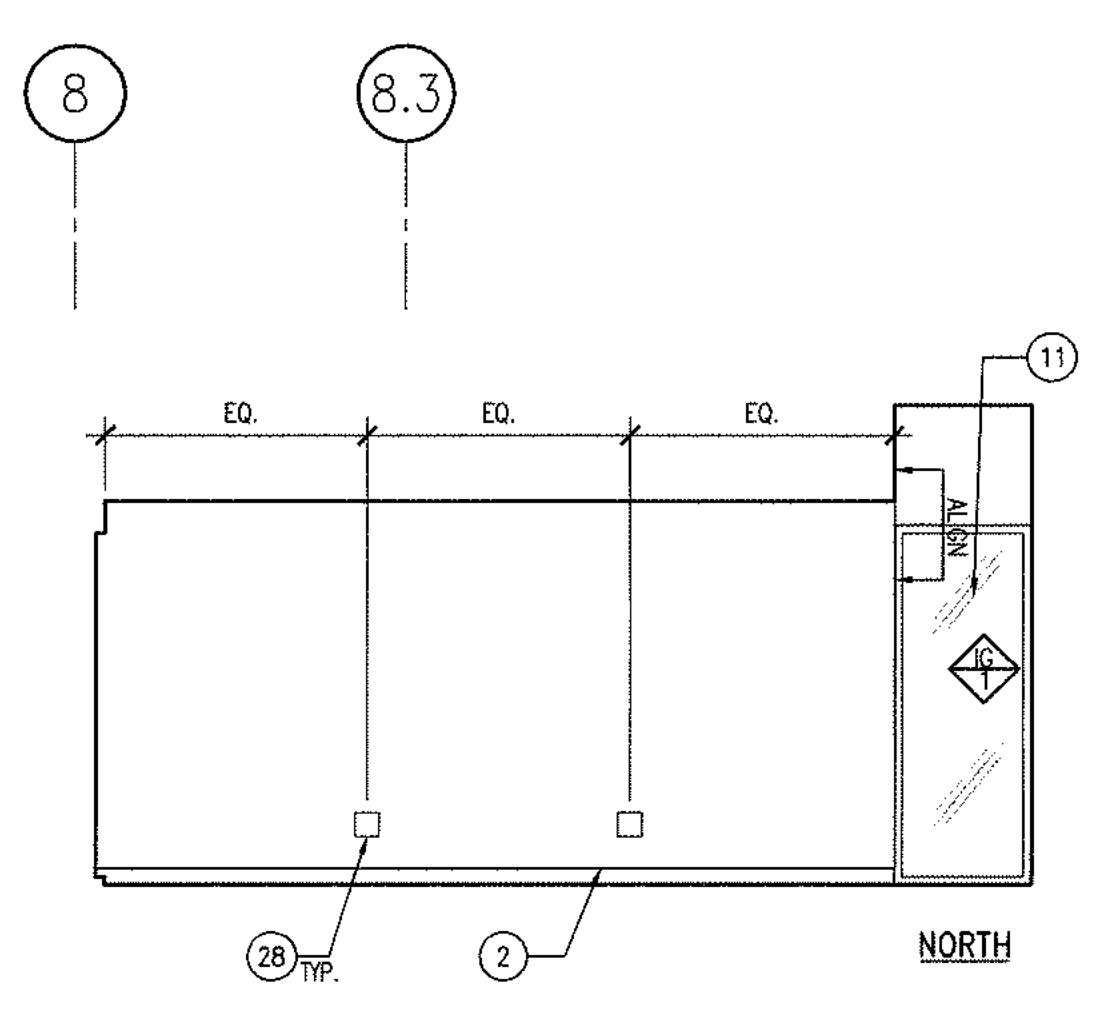
A5.15



- GENERAL NOTES
- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
 - ALL FLOOR FINISH TO BE CARPET, U.O.N.
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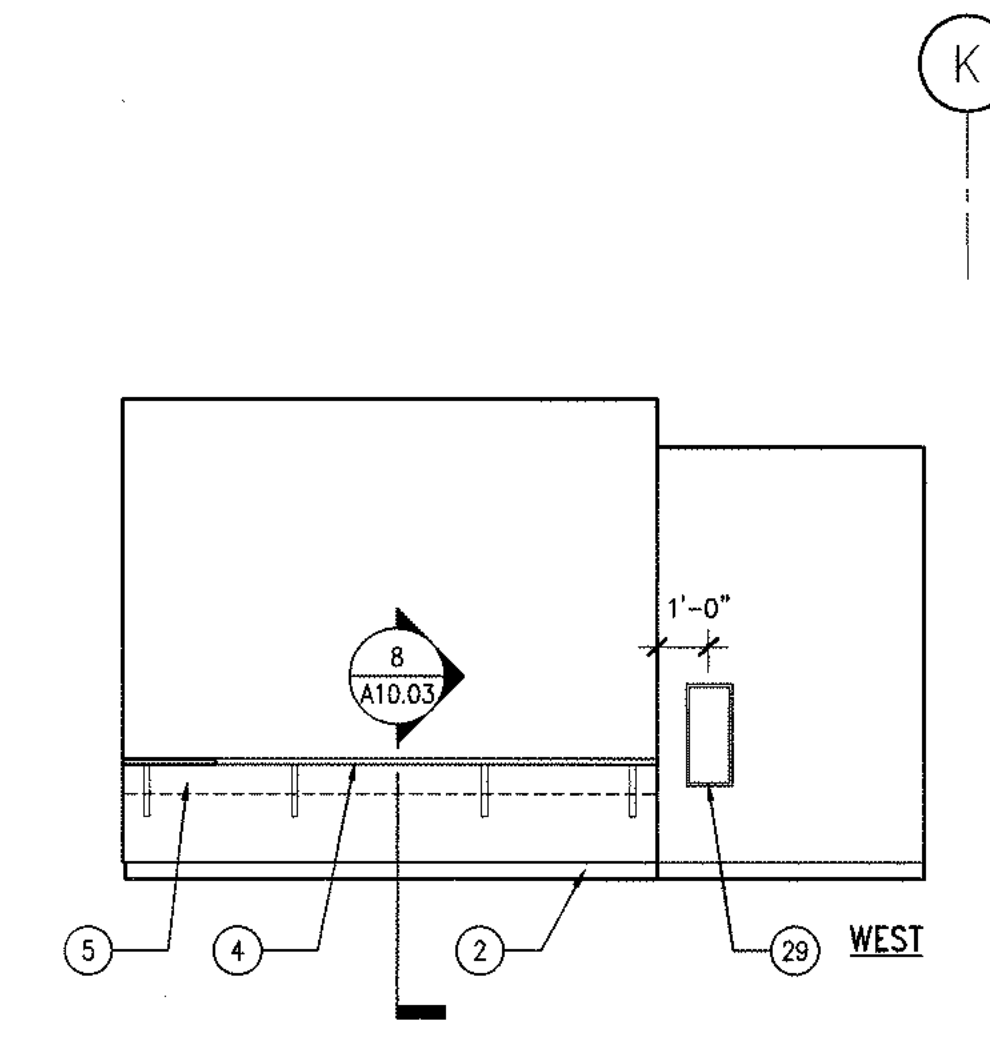
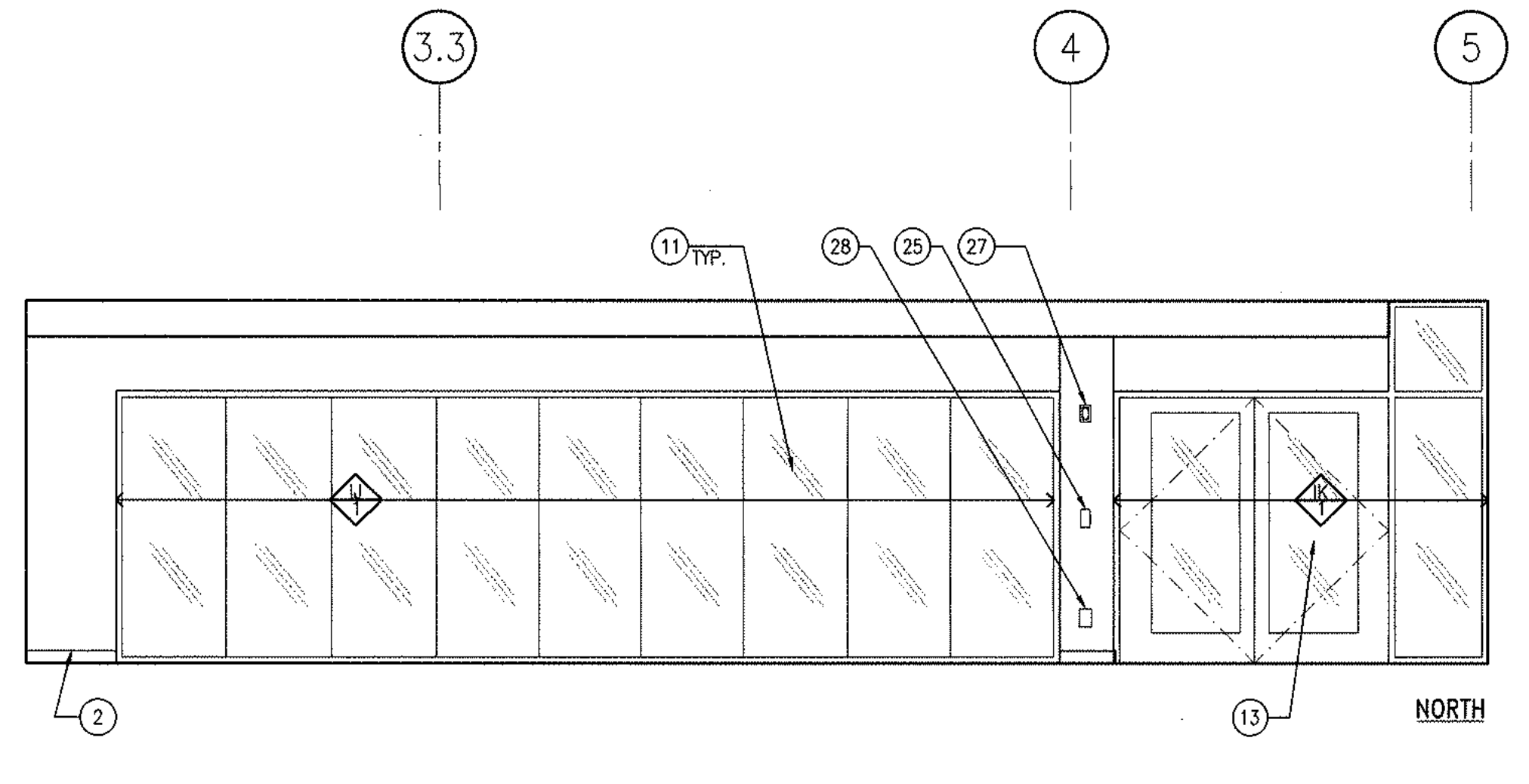
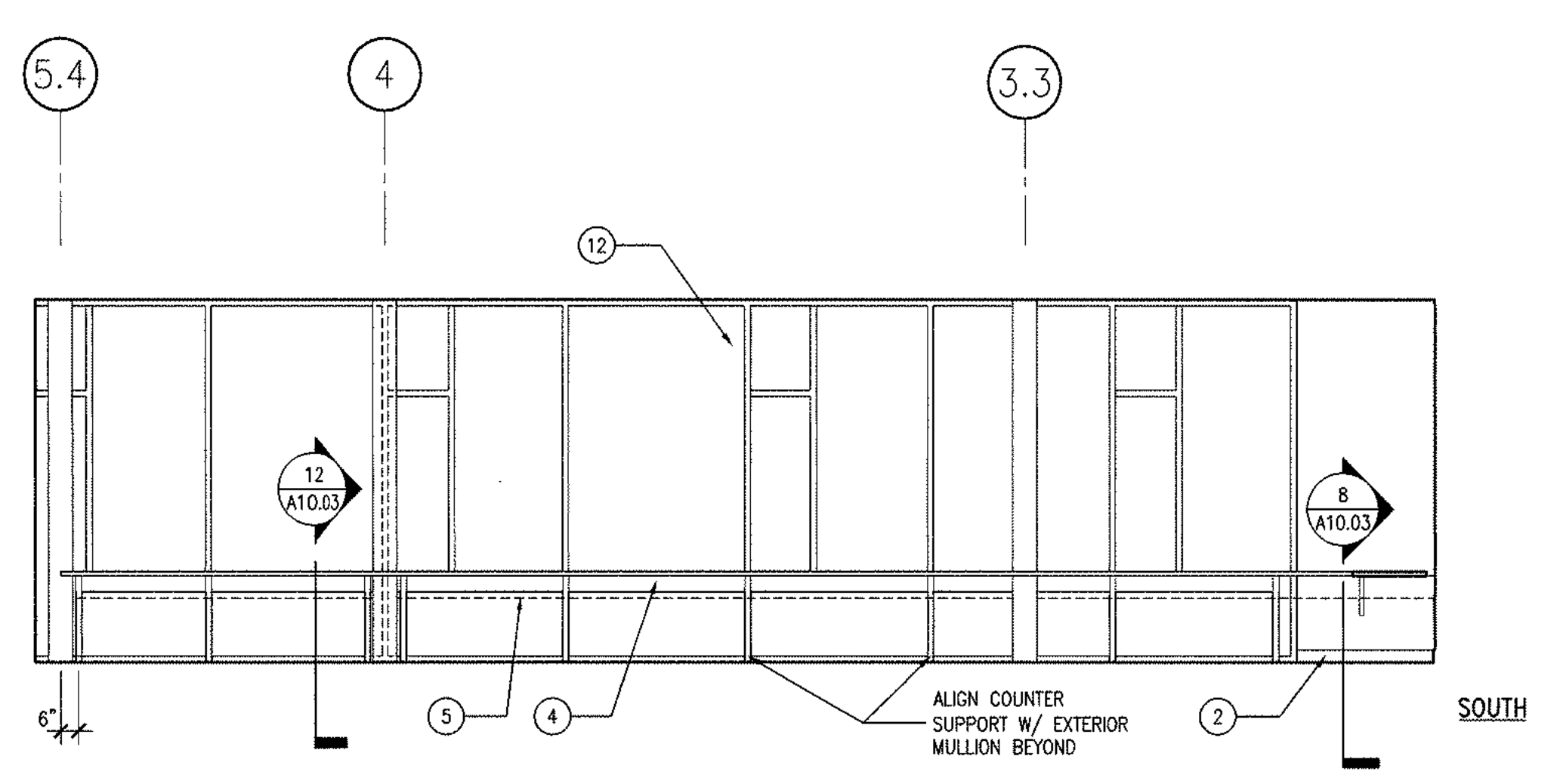
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 - INTERIOR ALUMINUM FRAME GLAZING
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 - SCHEDULED DOOR AND FRAME, SEE FLOOR PLANS & DOOR SCHEDULE
 - 45" BOOK STACK, SEE STACK PLANS
 - PAINTED HARDWOOD SILL
 - STRUCTURAL STEEL, PAINTED
 - BULLETIN BOARD WALL COVERING
 - LIGHT FIXTURE, SEE R.C.P. FOR LAYOUT, S.E.D. FOR FIXTURE TYPES
 - MECHANICAL REGISTER PTD., S.M.D.
 - ARTISAN VENEER PLASTER
 - CLERESTORY WINDOW
 - FABRIC WRAPPED ACOUSTICAL PANEL
 - SIGNAGE
 - 1/4" ALUMINUM REVEAL
 - THERMOSTAT, S.M.D.
 - ELECTRICAL SWITCH, S.E.D.
 - FIRE ALARM EQUIP., S.E.D.
 - OUTLET, S.E.D.
 - RECESSED FIRE EXTINGUISHER CABINET
 - DISHWASHER, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - REFRIGERATOR, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - COOK TOP, O.F.C.I. - VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - 90" BOOK STACK, SEE STACK PLANS
 - SECURITY EQUIPMENT, SEE TELECOM DWGS.
 - SPEAKER, SEE TELECOM DWGS.
 - MECHANICAL DUCT, PAINTED, S.M.D.
 - CUSTOM FABRIC CLNG, SEE R.C.P.
 - TELEPHONE, SEE TELECOM DWGS.
 - CORNERGUARD
 - DOOR ACTUATOR
 - CHAIR RAIL
 - 3/8" X 1-1/4" S. STL. BAR DETECTABLE BARRIER
 - PARTIAL HEIGHT PARTITION
 - SHADE
 - SHADED MOUNTED ON DOOR; SEE 16/A9.04
 - ARTISAN VENEER PLASTER FINISH; SEE ROOM FINISH SCHEDULE / A10.00 FOR COLOR
 - ACRYLIC TRANSLUCENT PANEL; ACRYLIC PANEL MATERIAL OVER MDF; SEE INTERIOR FINISH LIST; BACK PAINT GWB WALL BEHIND BLACK
 - 1/4" REVEAL
 - 3/16" ST. STEEL RAIL
 - WD-1 PANELS OVER GWB
 - FLUSH STONE BASE
 - AQUARIUM TANK, N.I.C.
 - FUTURE PIN MOUNTED SIGNAGE, N.I.C.
 - 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 1 1/4" STONE CAP, ST-3

YOUNG ADULTS 226
1/4"=1'-0" 4



GROUP STUDY (SECOND FLOOR) 227
1/4"=1'-0" 3

ELEVATOR AREA (SECOND FLOOR)
1/4"=1'-0" 2



QUIET STUDY 216
1/4"=1'-0" 1

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580 Alameda Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

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Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

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revisions
2004.02.04
CCD NO. 7.5

11-29-04 Updated
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NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

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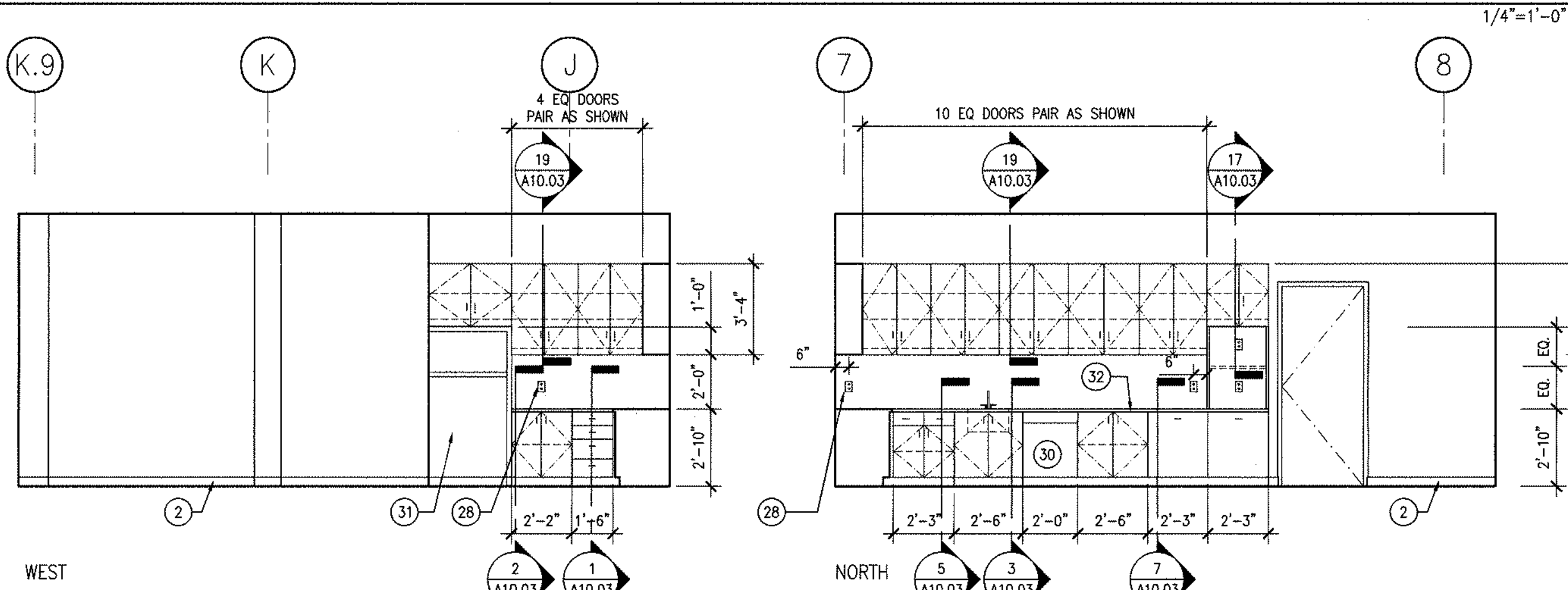
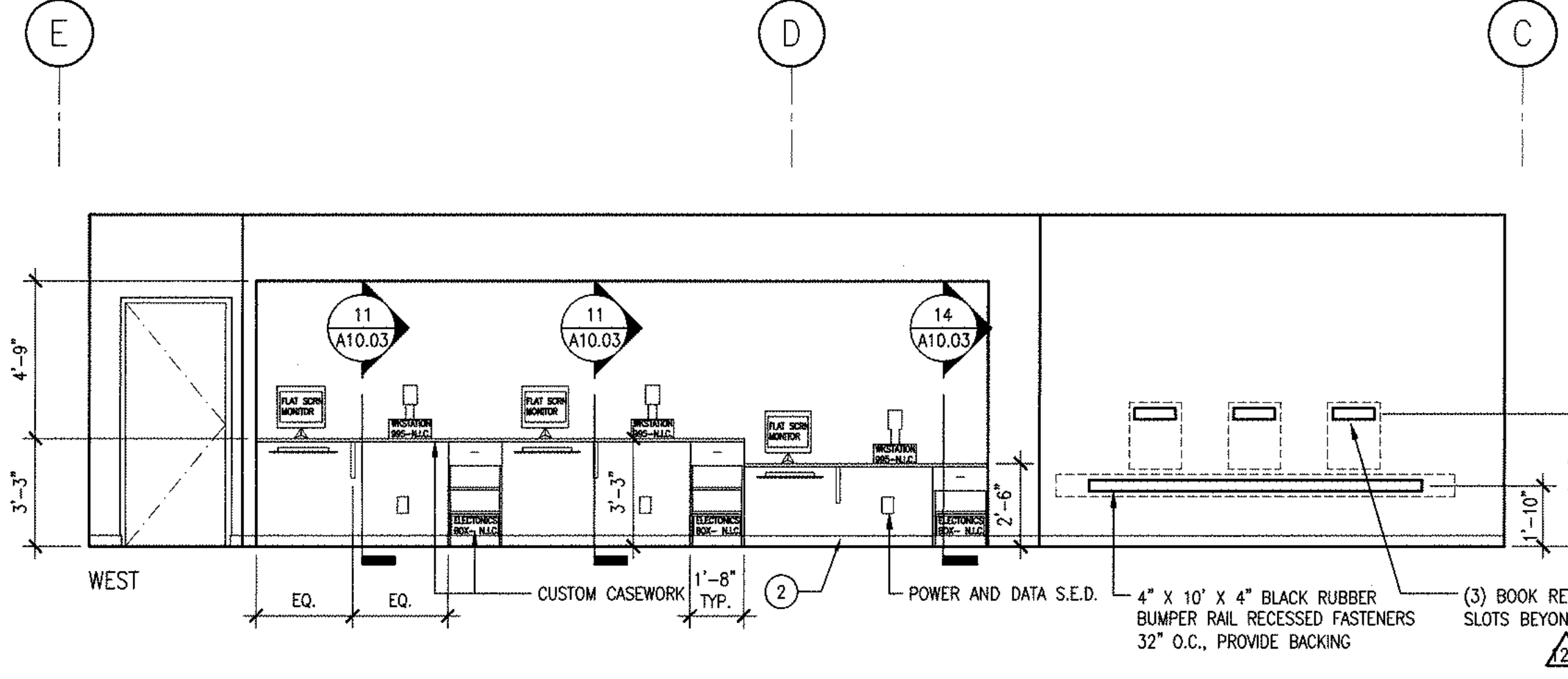
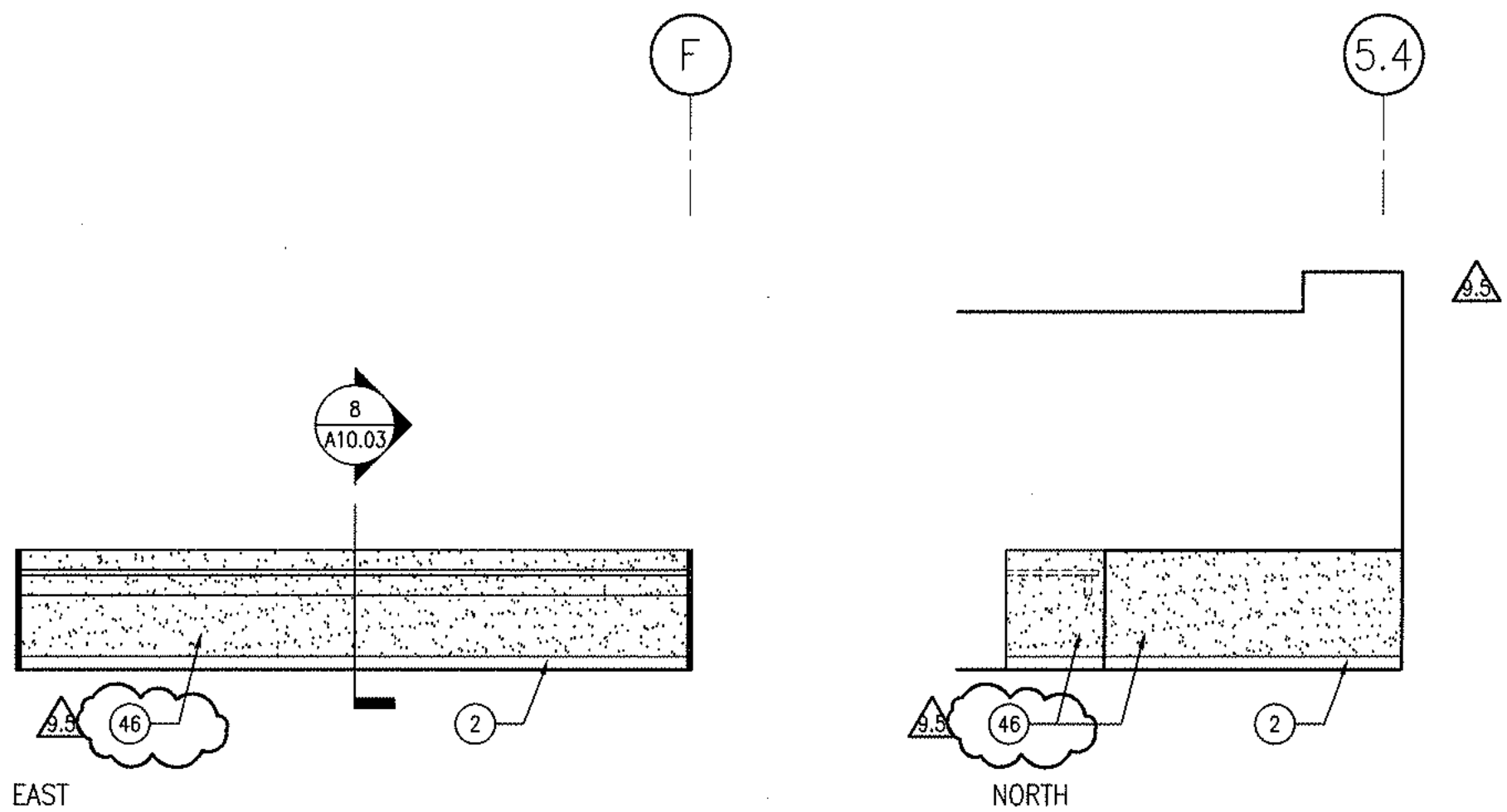
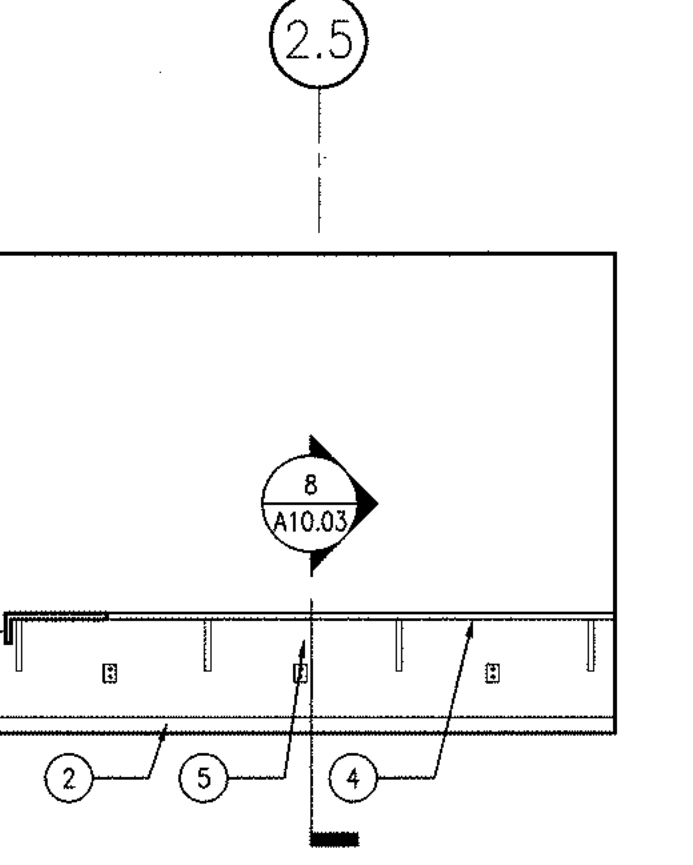
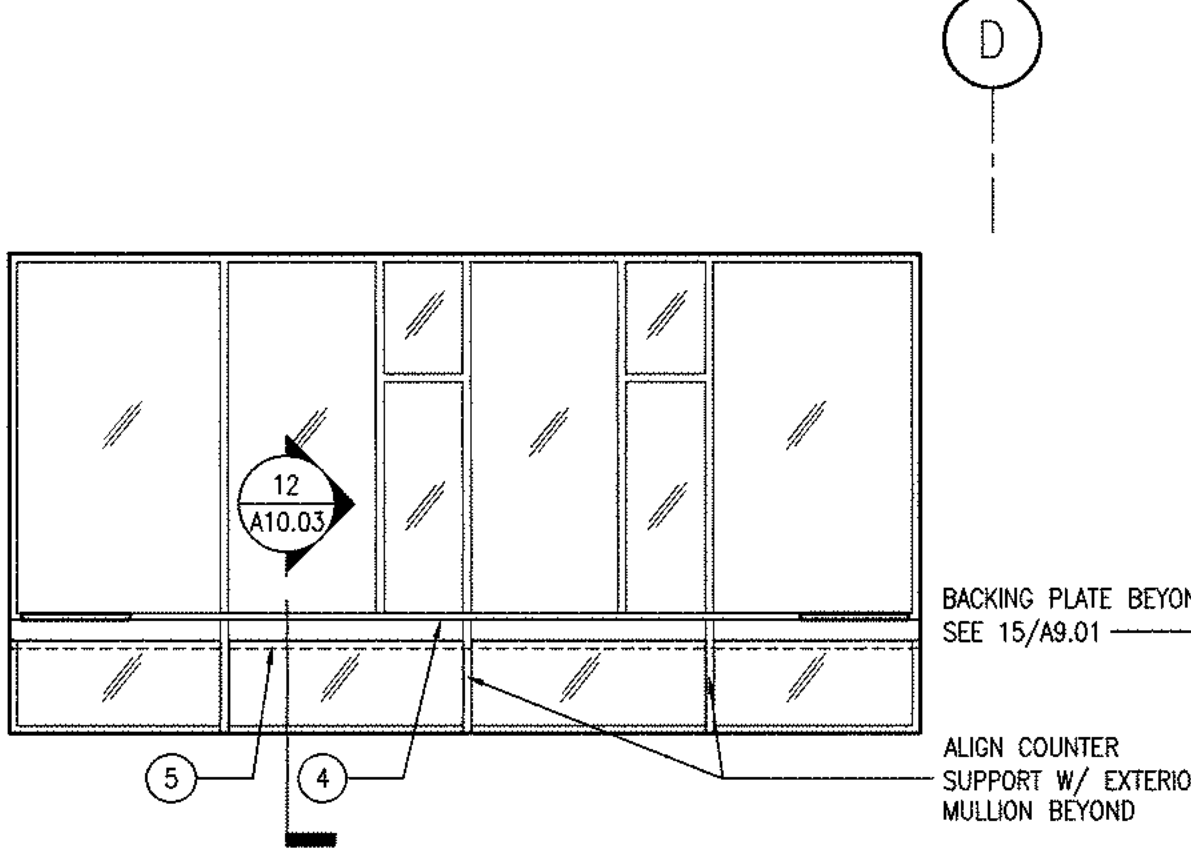
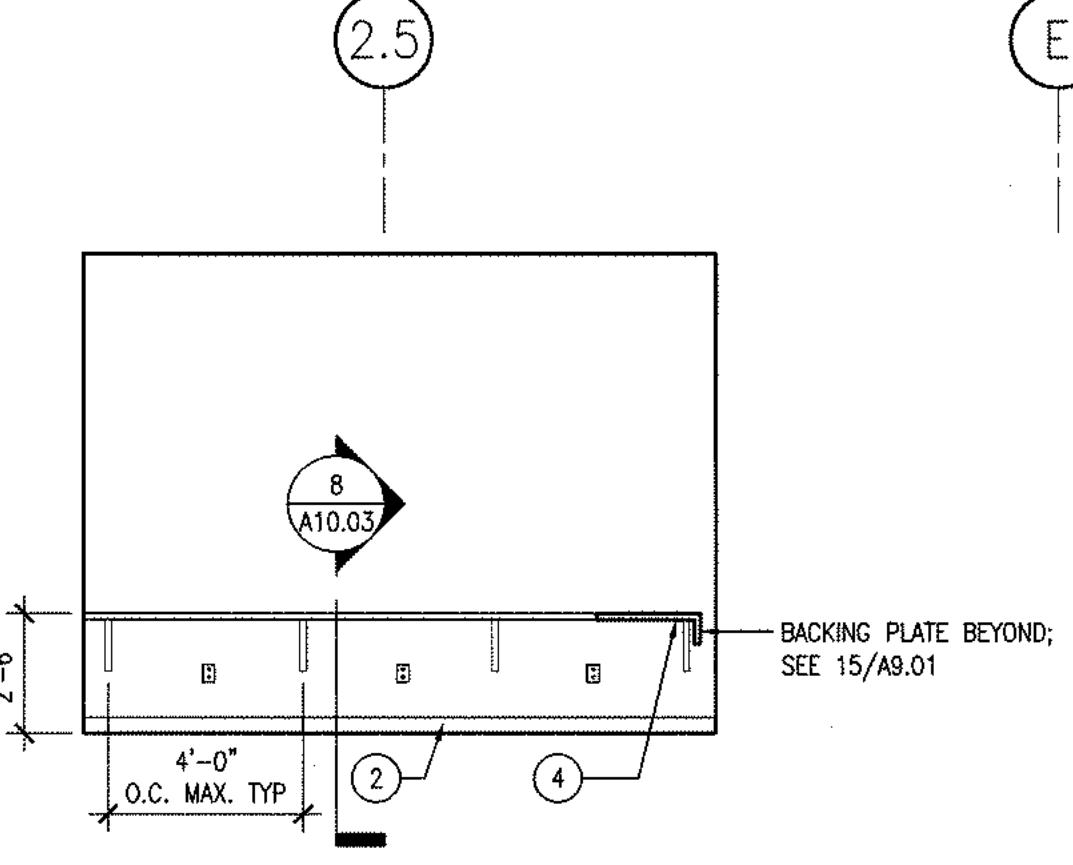
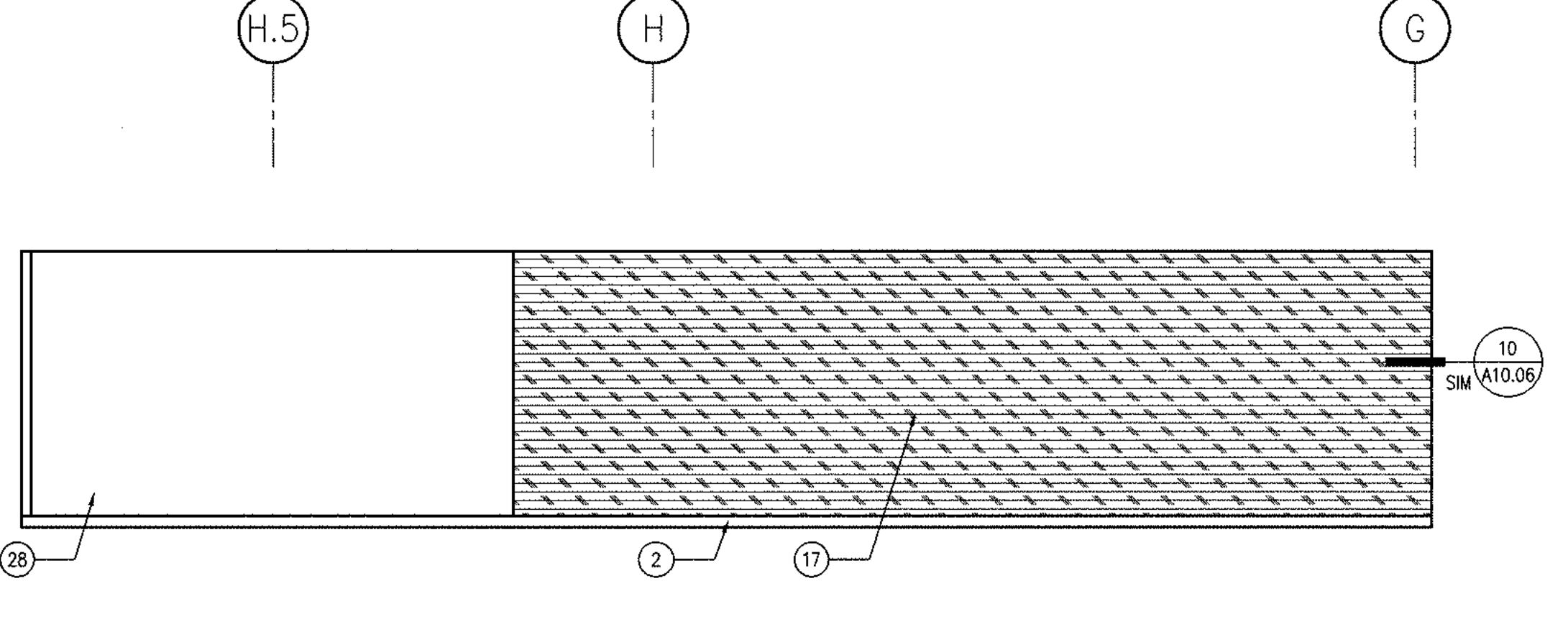
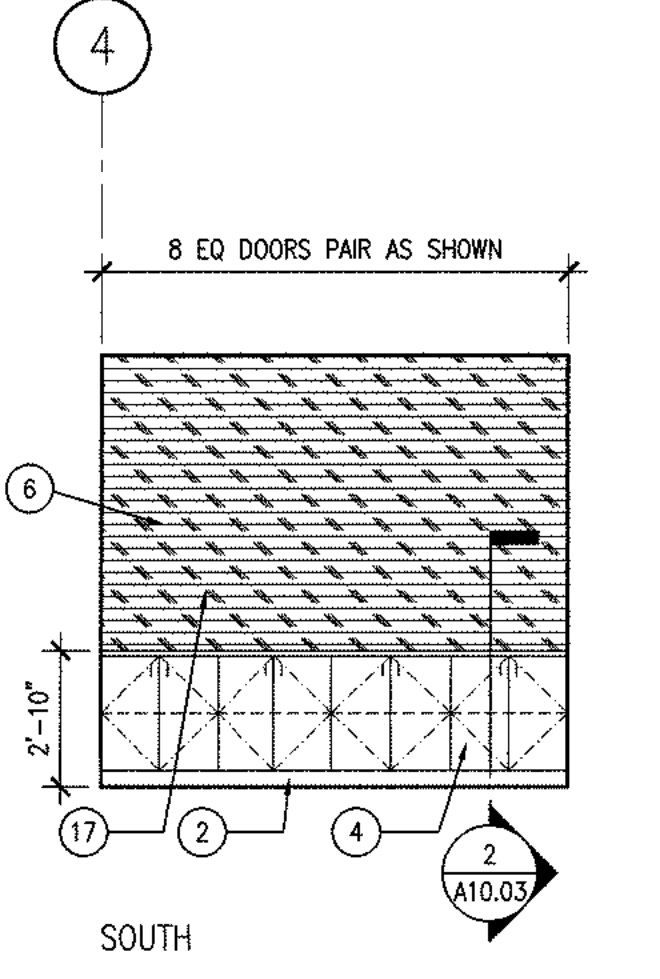
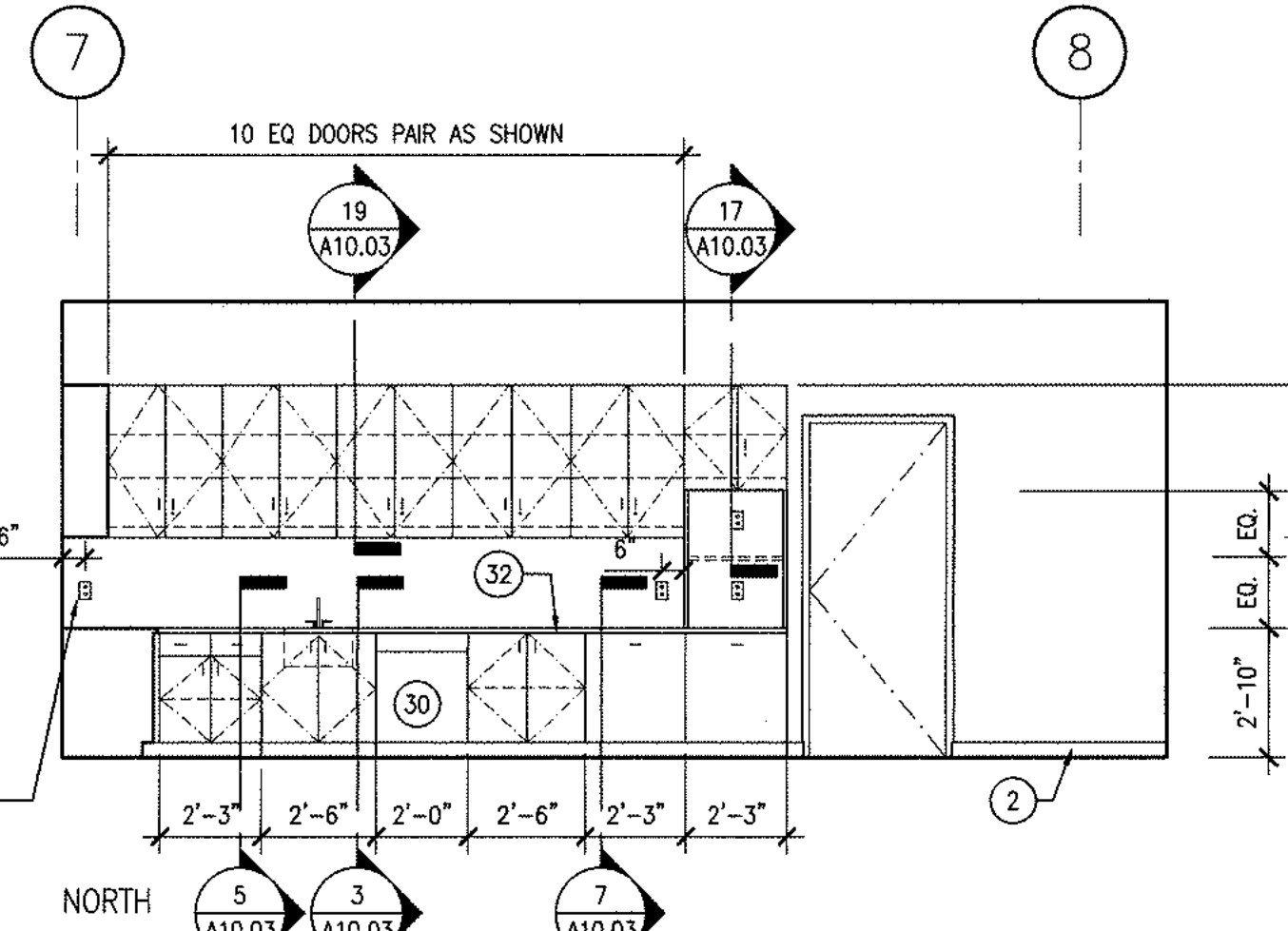
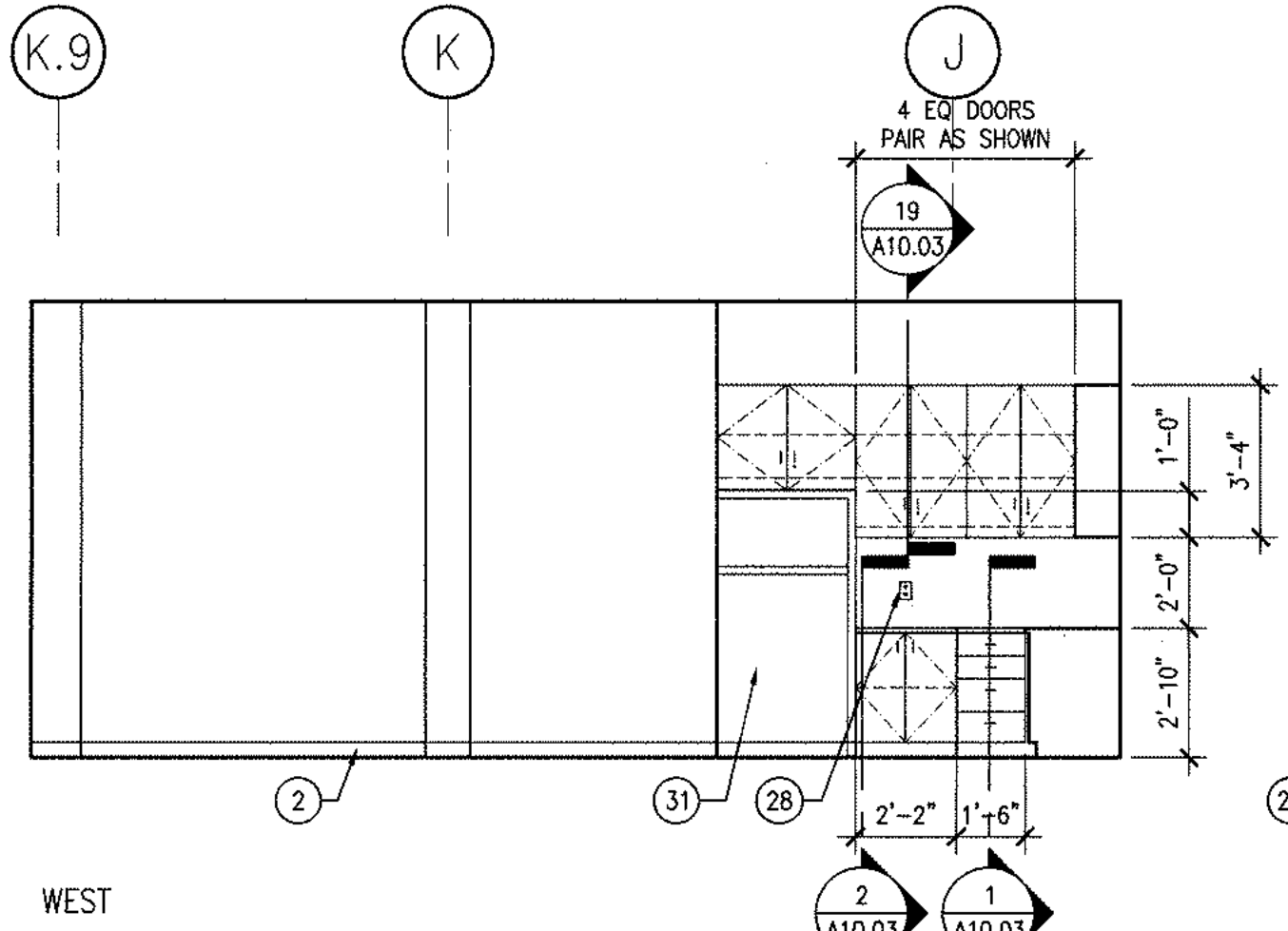
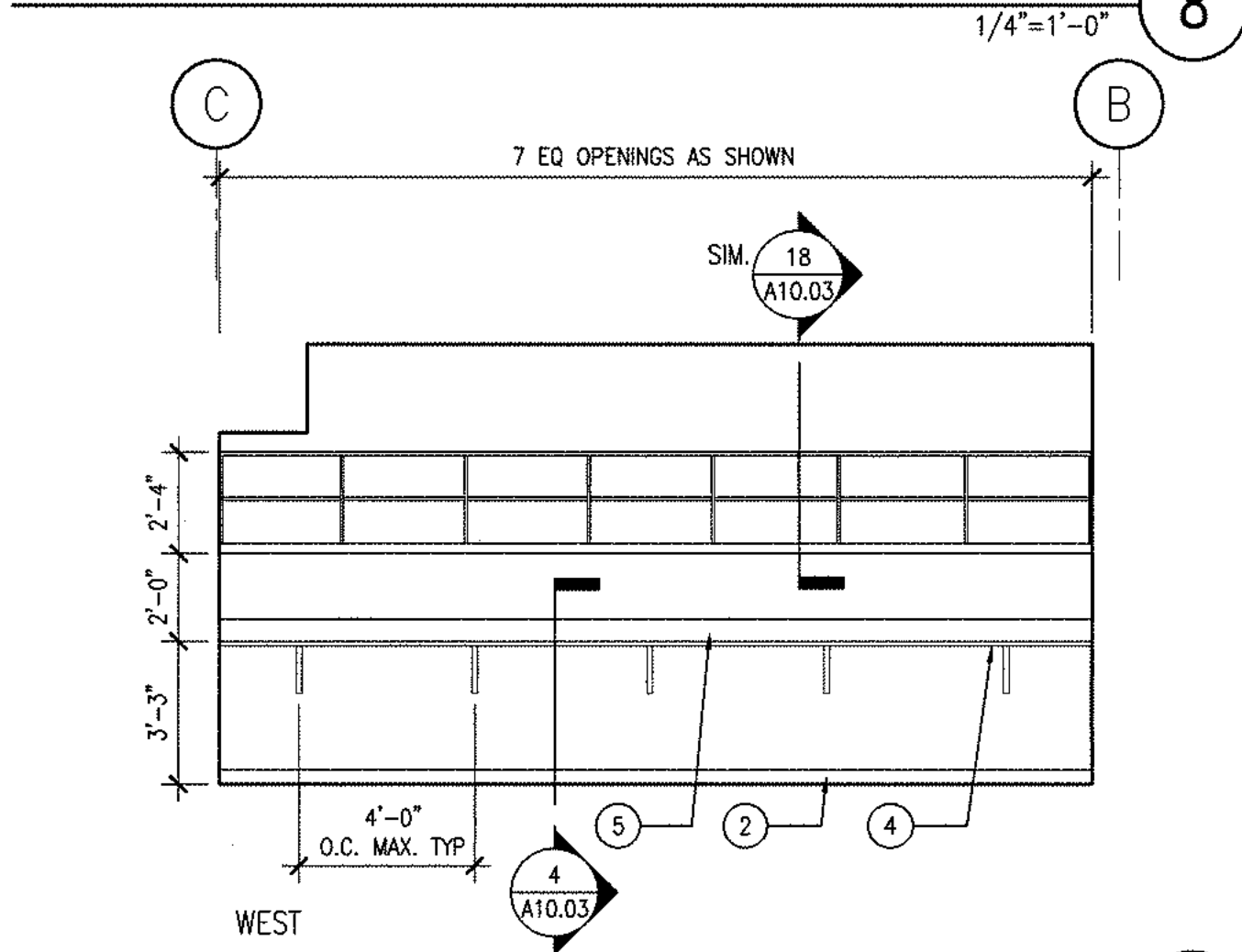
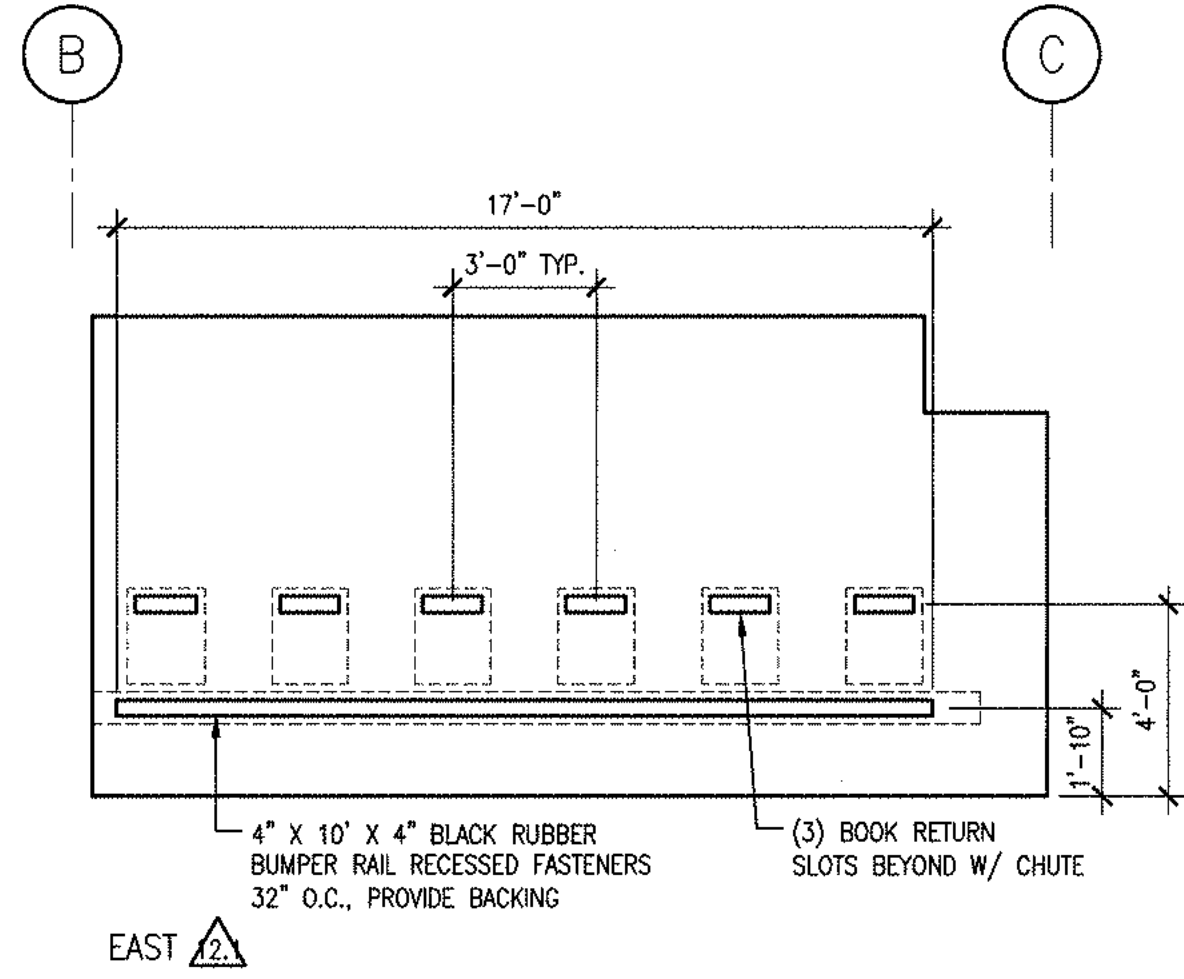
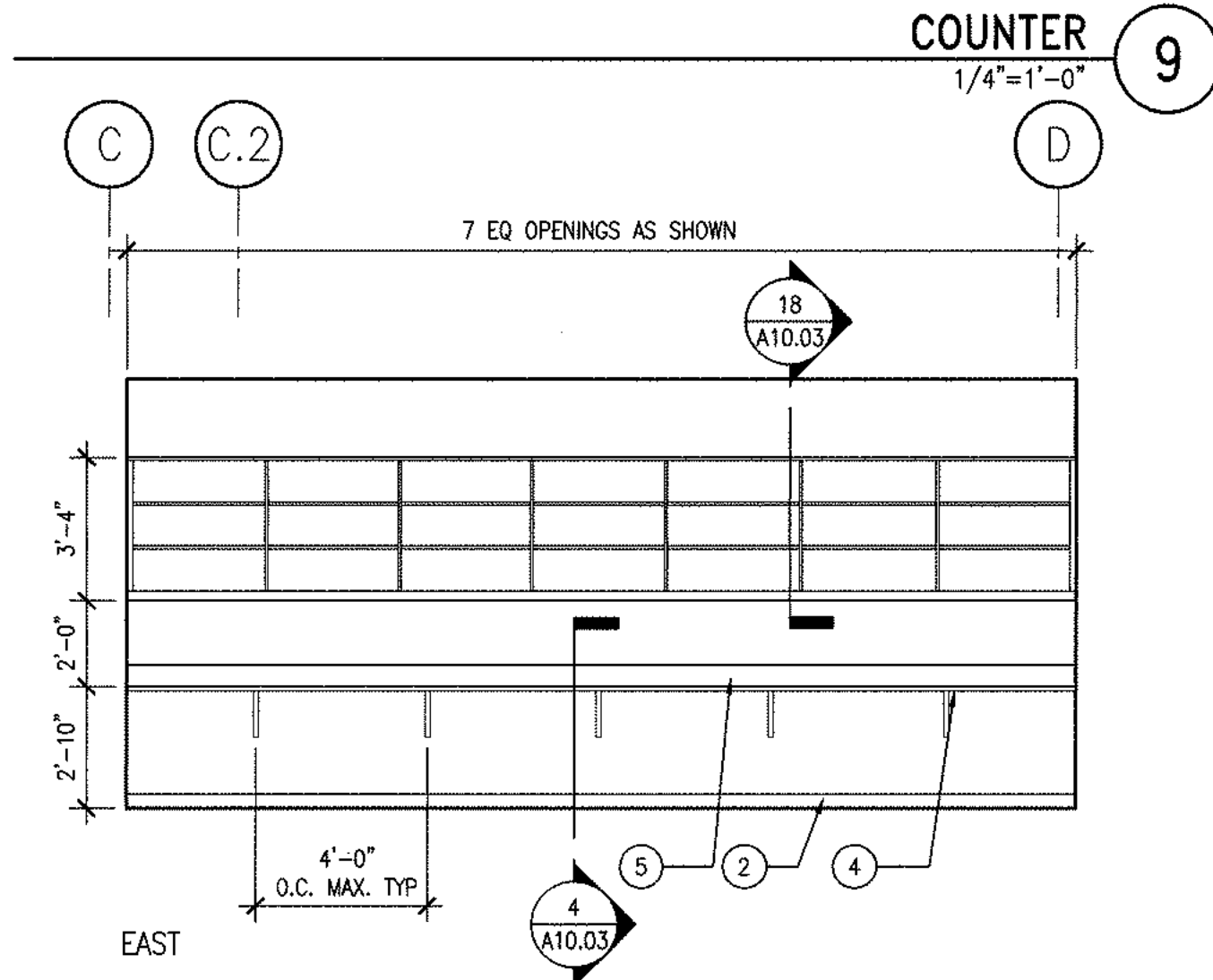
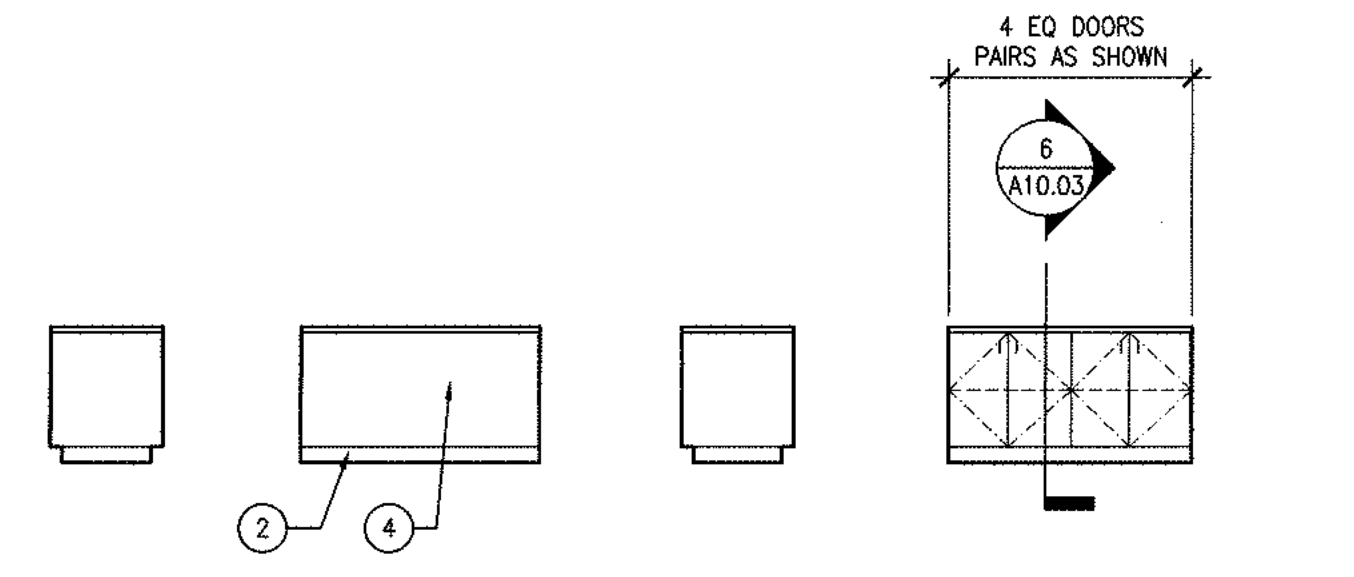
LIBRARY
INTERIOR
ELEVATIONS

scale: 1/4" = 1'-0" date: 2003.04.18
drawn by: LO/CM project number: 20114.00
sheet number: 1

A5.16

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- GENERAL NOTES
- SEE FINISH SCHEDULE A10.00 FOR INTERIOR FINISHES
 - ALL FLOOR FINISH TO BE CARPET, U.O.N.
 - VERTICAL SURFACES ARE G.W.B., PTD. PT-1, U.O.N.
 - ALL EXPOSED STRUCTURAL STEEL PTD. PT-11, U.O.N.
 - FOR LOCATION OF OUTLETS, SWITCHES & OTHER WALL MOUNTED DEVICES SEE 1/A5.10, U.O.N.

- KEYNOTES
- STL. COL., S.S.D.
 - SCHEDULED WALL BASE, SEE FINISH SCHEDULE
 - BUILT-IN BENCH W/ HARDWOOD VENEER
 - CUSTOM CASEWORK
 - POWER & DATA WIREMOLD RACEWAY, S.E.D.
 - BOOK THEFT DETECTION SYSTEM
 - PLASTIC LAMINATE
 - ACCESSIBLE DRINKING FOUNTAIN
 - MAIN STAIR: STONE TREADS, GLASS RAIL, SEE A7.00
 - ELEVATOR CONTROLS
 - INTERIOR ALUMINUM FRAME GLAZING
 - EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
 - SCHEDULED DOOR AND FRAME, SEE FLOOR PLANS & DOOR SCHEDULE
 - 45" BOOK STACK, SEE STACK PLANS
 - PAINTED HARDWOOD SILL
 - STRUCTURAL STEEL, PAINTED
 - BULLETIN BOARD WALL COVERING
 - LIGHT FIXTURE, SEE R.C.P. FOR LAYOUT, S.E.D. FOR FIXTURE TYPES
 - MECHANICAL REGISTER PTD., S.M.D.
 - ARTISAN VENEER PLASTER
 - CLERESTORY WINDOW
 - FABRIC WRAPPED ACOUSTICAL PANEL
 - SIGNAGE
 - 1/4" ALUMINUM REVEAL
 - THERMOSTAT, S.M.D.
 - ELECTRICAL SWITCH, S.E.D.
 - FIRE ALARM EQUIP., S.E.D.
 - OUTLET, S.E.D.
 - RECESSED FIRE EXTINGUISHER CABINET
 - DISHWASHER, O.F.C.I.- VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - REFRIGERATOR, O.F.C.I.- VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
 - COOK TOP, O.F.C.I.- VERIFY W/ OWNER PRIOR TO SHOP DRAWINGS
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 - SPEAKER, SEE TELECOM DWGS.
 - MECHANICAL DUCT, PAINTED, S.M.D.
 - CUSTOM FABRIC CLNG, SEE R.C.P.
 - TELEPHONE, SEE TELECOM DWGS.
 - CORNERGUARD
 - DOOR ACTUATOR
 - CHAIR RAIL
 - 3/8" X 1-1/4" S. STL. BAR DETECTABLE BARRIER
 - PARTIAL HEIGHT PARTITION
 - SHADE
 - SHADED MOUNTED ON DOOR; SEE 16/A9.04
 - ARTISAN VENEER PLASTER FINISH; SEE ROOM FINISH SCHEDULE / A10.00 FOR COLOR
 - ACRYLIC TRANSLUCENT PANEL- ACRYLIC PANEL MATERIAL OVER MDF; SEE INTERIOR FINISH LIST, BACK PAINT GWB WALL BEHIND BLACK
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 - FLUSH STONE BASE
 - AQUARIUM TANK, N.I.C.
 - FUTURE PIN MOUNTED SIGNAGE, N.I.C.
 - 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 1 1/4" STONE CAP, ST-3

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Cupertino, CA 95014
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590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

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2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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160 Pine Street
San Francisco, CA 94111
415 837 0700 T
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405 Howard Street
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2003.05.07	ADDENDUM NO. 1
2003.11.24	CCD NO. 10.1
2004.02.04	CCD NO. 7.5

11-29-04 Updated Contract Documents

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LIBRARY INTERIOR ELEVATIONS

Scale: 1/4" = 1'-0"
Date: 2003.04.18
Drawn by: GN
Project number: 20114.00
Sheet number: 20114.00

A5.17

GENERAL NOTES

- FOR LOCATION OF OUTLETS, SWITCHES AND OTHER WALL-MOUNTED DEVICES SEE 1/AS.10, U.O.N.

KEYNOTES

- GYP. BD., PAINTED
- SCHEDULED WALL BASE
- WOOD TRIM
- WOOD CHAIR RAIL
- BUILT-IN BENCH W/ HARDW. VENEER
- CUSTOM CASEWORK
- TRANSPARENT FINISHED WOOD PANNELLING
- ACOUSTICAL WOOD PANNELLING OVER 2" ACOUS. INSUL.
- INTERIOR ALUMINUM FRAME GLAZING
- EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
- DOOR AND FRAME
- PAINTED HARDWOOD SILL
- FABRIC WRAPPED ACOUSTICAL PANEL
- LIGHT FIXTURE/EXIT SIGN, S.E.D.
- MECHANICAL REGISTER, S.M.D.
- CLERESTORY WINDOW
- ALUMINUM REVEAL
- ARTISAN VENEER PLASTER W/ ALUM. REVEALS
- WALL MOUNTED PROJECTOR SCREEN
- SHADE POCKET
- WOOD BEAM S.S.D.
- ACCESSIBLE DRINKING FOUNTAIN
- WALL MOUNTED PLASMA SCREEN, N.I.C.
- CAMERA/PROJECTOR NICHE W/ WOOD FINISH
- FLUSH MOUNTED RECEPTACLE-SEE ELECTRICAL & EA
- FLUSH MOUNTED CONTROL-SEE ELECTRICAL & EA DWGS.
- FIRE ALARM DEVICE-S.E.D.
- PROVIDE BACKING PLATES PER DETAIL 14/A9.01
- THERMOSTAT, S.M.D.
- PHONE, N.I.C.
- PAINTED MTL. UTILITY CHASE
- CABLE PASS-THRU W/ DOOR
- RECESSED ALUM. PICTURE RAIL
- ALUM. ENTRY DOOR & WINDOWS-SEE EXT. WINDOW SCHEDULE
- SEATING CHART WHERE SHOWN ON PLAN
- STAINLESS STEEL PIN LETTERS-N.I.C.
- RECESSED FIRE EXTINGUISHER CABINET
- ACCESSIBLE TOILET SIGNAGE PER ADAAG & CBC
- MAXIMUM OCCUPANCY SIGN
- ASSISTIVE LISTENING DEVICE SIGN
- WATER HEATER, S.P.D.
- GE MONOGRAM MODEL # ZFSB26DRSS; S.P.D., CFCI
- MELLE TOUCHTRONIC MODEL # G694SC, STAINLESS STL. CONTROL PANEL #21995886, STAINLESS STEEL DOOR WITH 4" TOE KICK #0200; S.P.D.; CFCI

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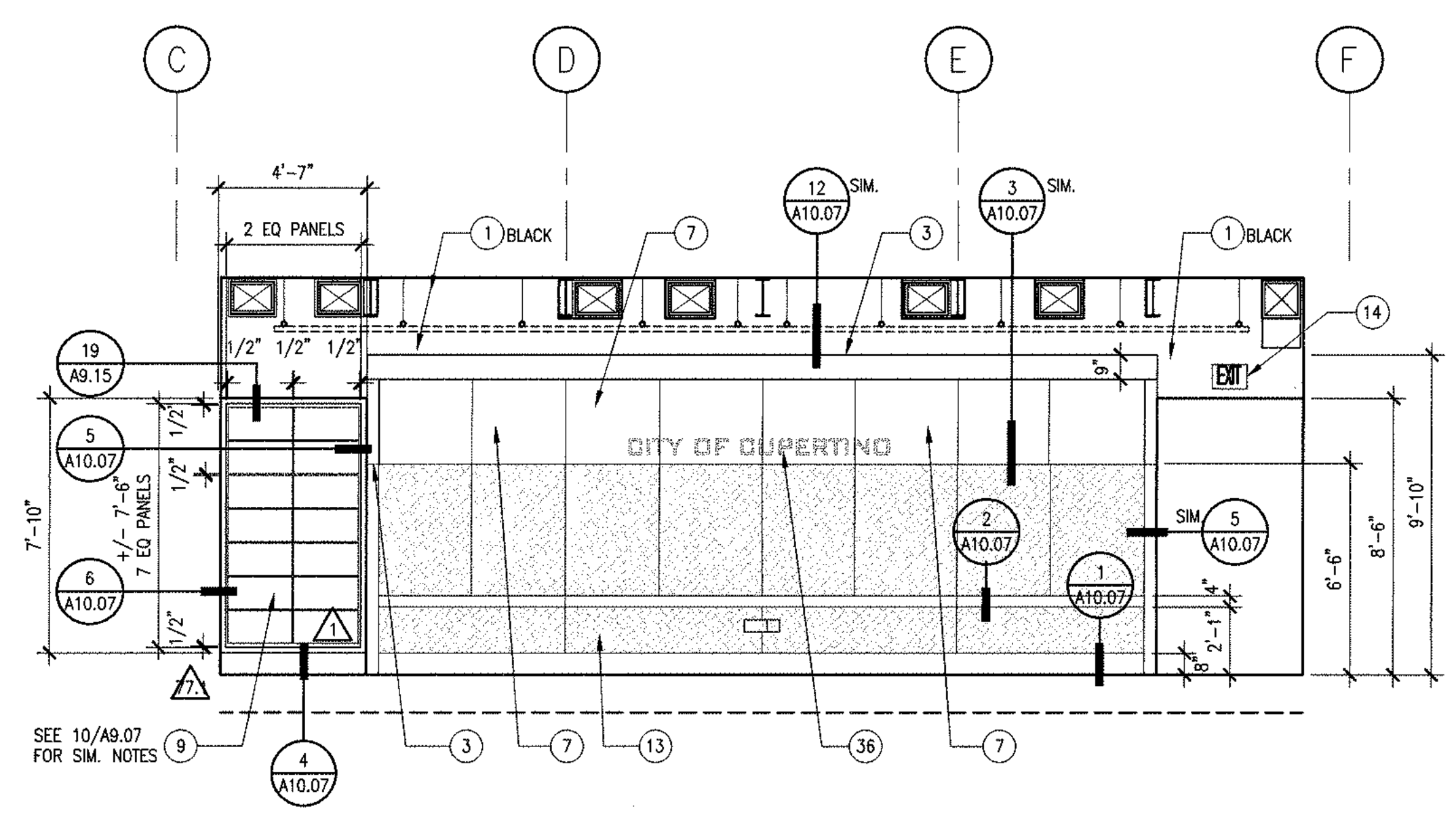
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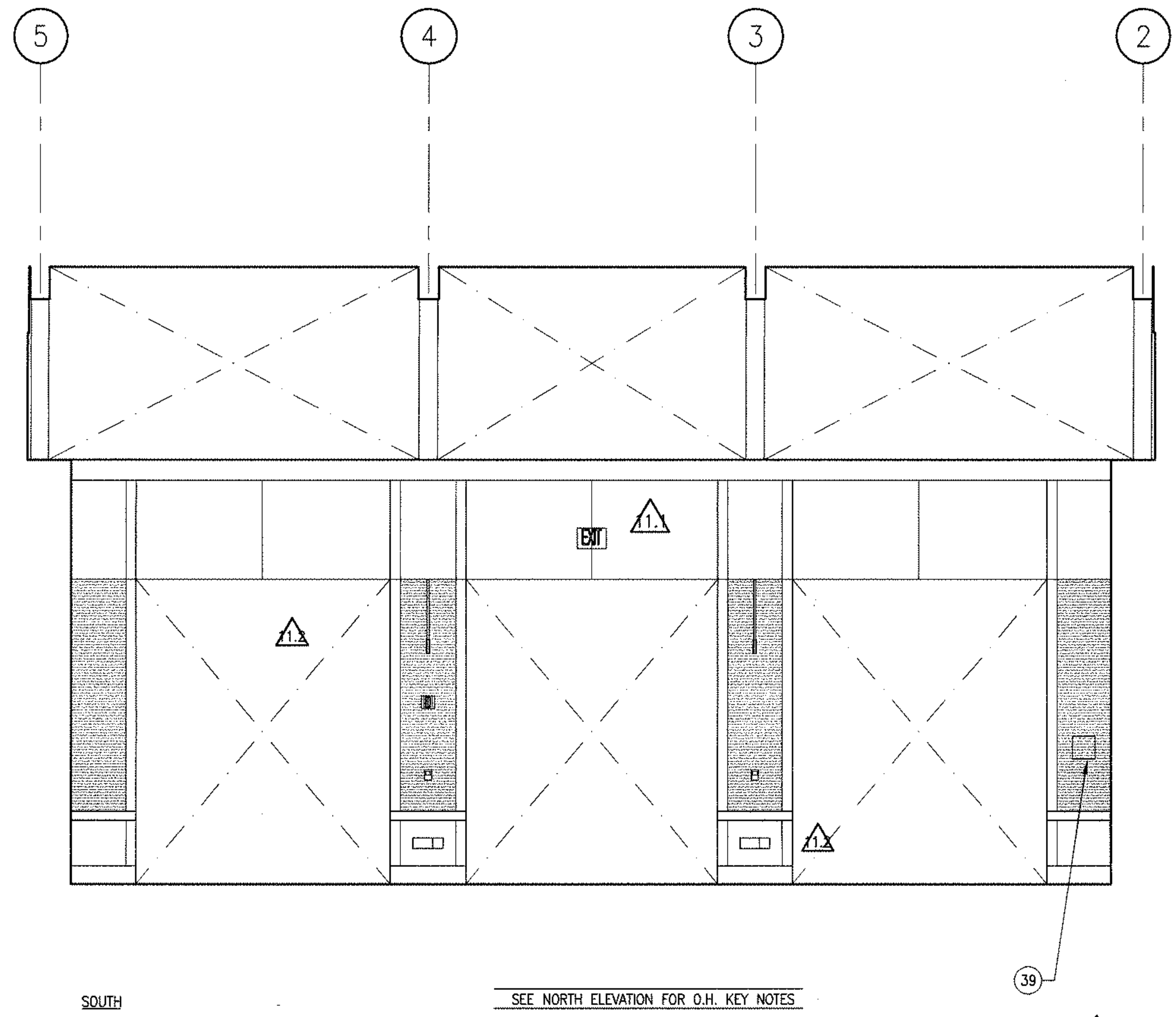
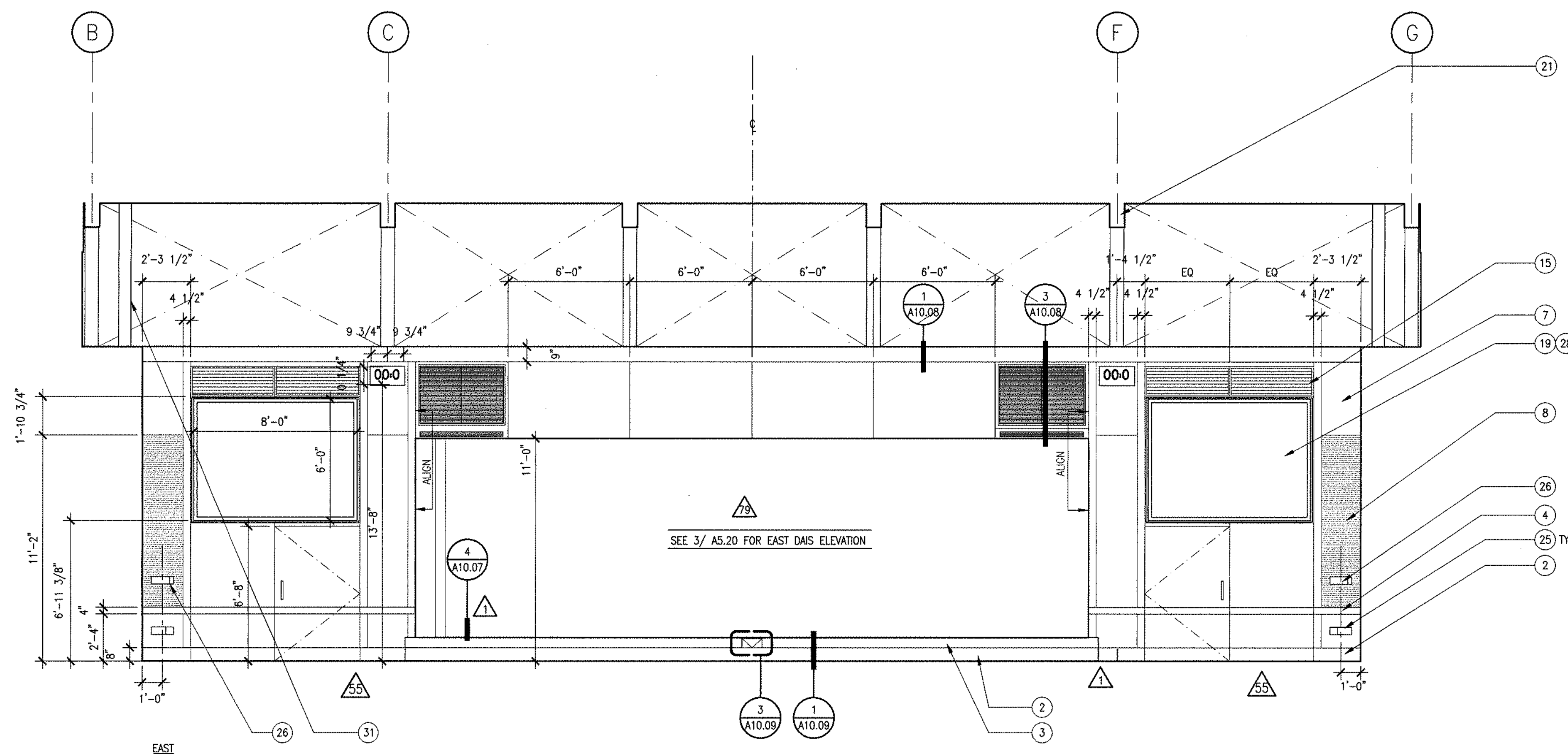
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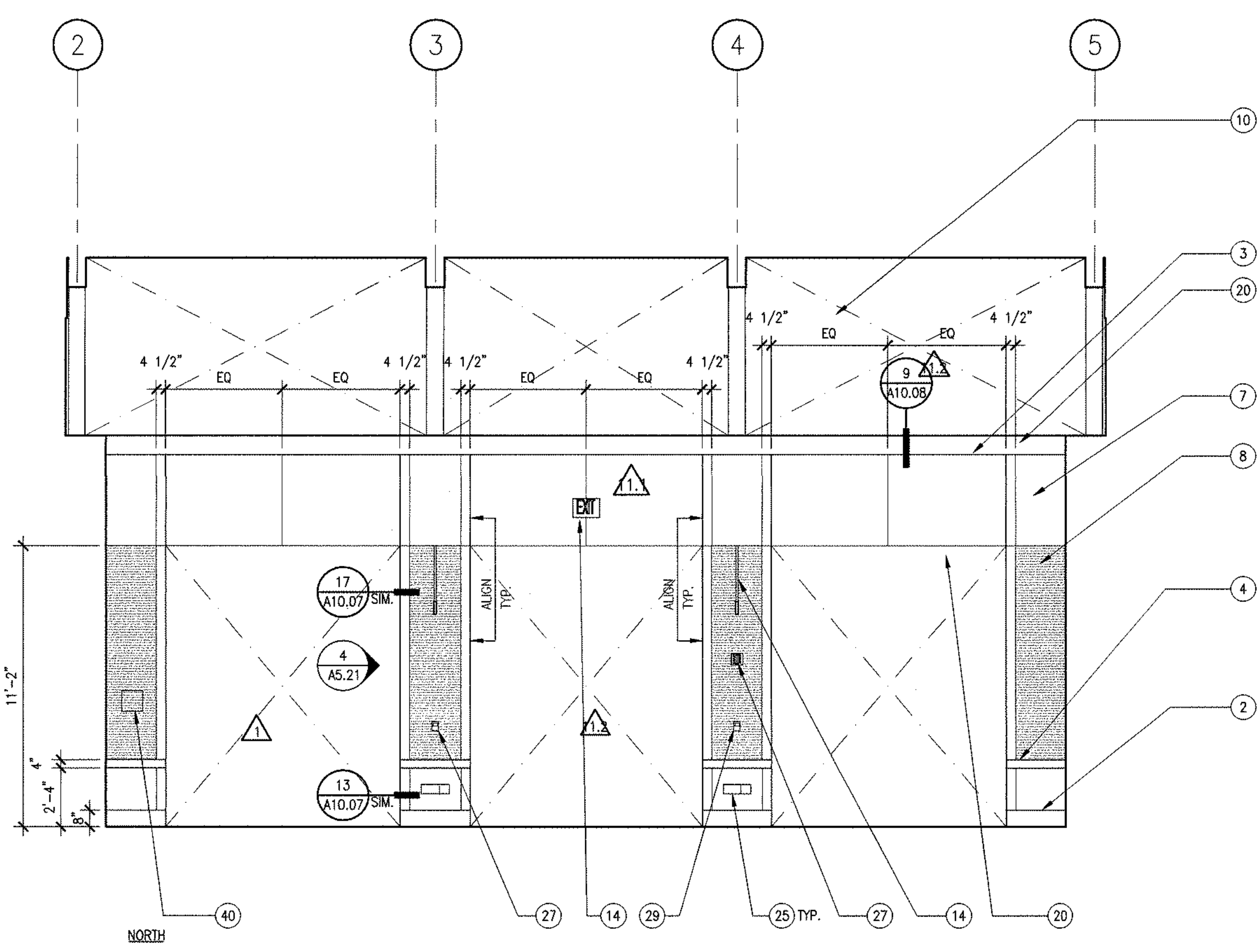
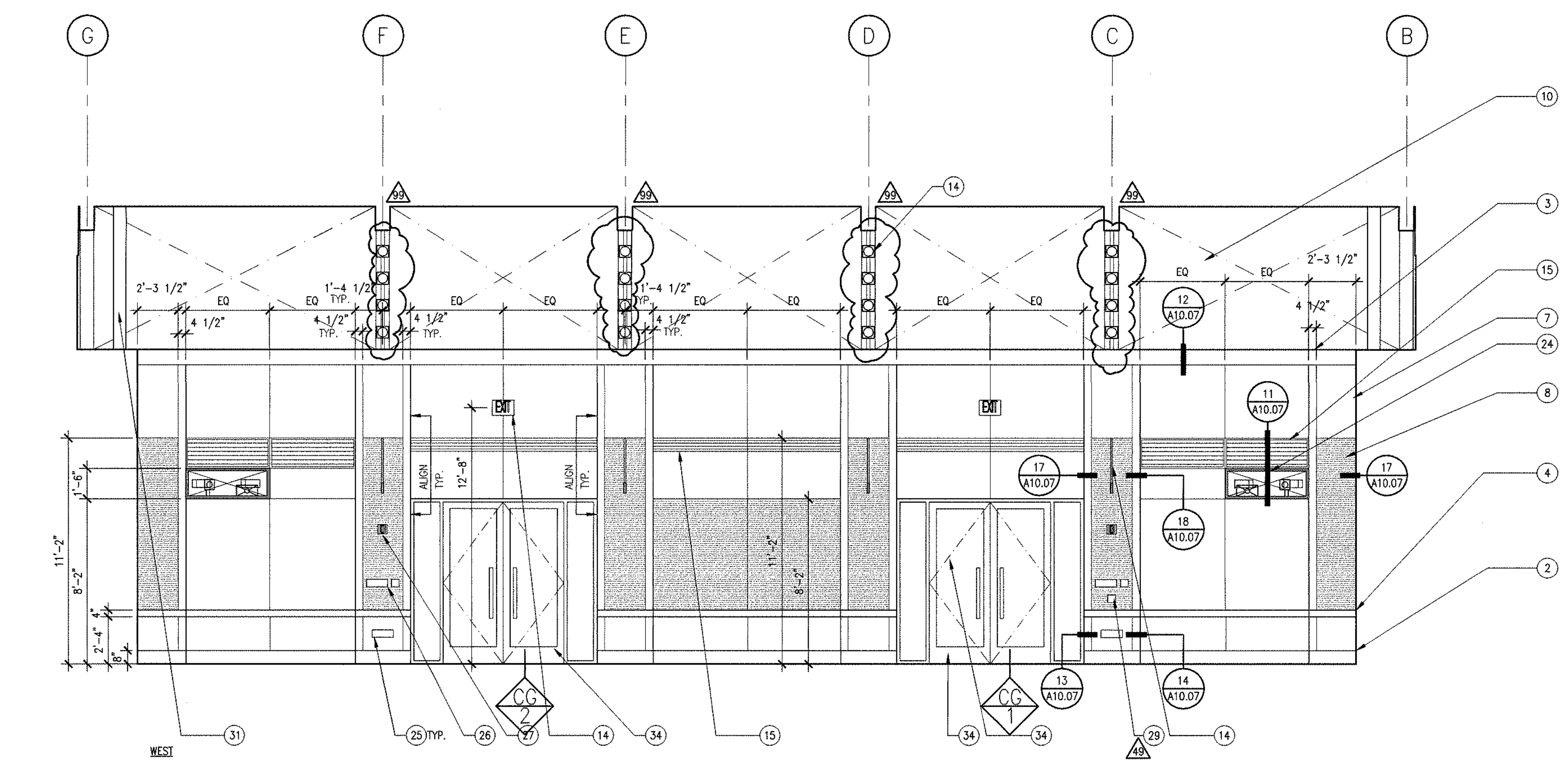
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DAIS C111 EAST INTERIOR ELEVATION
 1/4" = 1'-0" 3



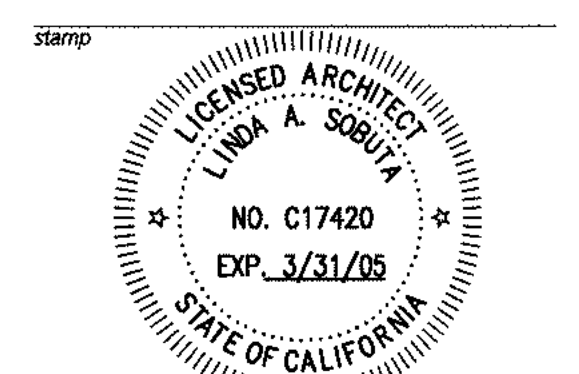
SEE NORTH ELEVATION FOR O.H. KEY NOTES



ROOM C108 INTERIOR ELEVATION
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 HALL
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 Drawn by: LR
 Project number: 20114.00
 Sheet number: A5.20

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GENERAL NOTES
 1. FOR LOCATION OF OUTLETS, SWITCHES AND OTHER WALL-MOUNTED DEVICES SEE 1/AS.10, U.O.N.

- KEYNOTES
- 1 GYP. BD., PAINTED
 - 2 SCHEDULED WALL BASE
 - 3 WOOD TRIM
 - 4 WOOD CHAIR RAIL
 - 5 BUILT-IN BENCH W/ HARDWD. VENEER
 - 6 CUSTOM CASEWORK
 - 7 TRANSPARENT FINISHED WOOD PANNELLING
 - 8 ACOUSTICAL WOOD PANNELLING OVER 2" ACOUS. INSUL.
 - 9 INTERIOR ALUMINUM FRAME GLAZING
 - 10 EXTERIOR WINDOW, SEE EXTERIOR ELEVATIONS
 - 11 DOOR AND FRAME
 - 12 PAINTED HARDWOOD SILL
 - 13 FABRIC WRAPPED ACOUSTICAL PANEL
 - 14 LIGHT FIXTURE/EXIT SIGN, S.E.D.
 - 15 MECHANICAL REGISTER, S.M.D.
 - 16 CLERESTORY WINDOW
 - 17 ALUMINUM REVEAL
 - 18 ARTISAN VENEER PLASTER W/ ALUM. REVEALS
 - 19 WALL MOUNTED PROJECTOR SCREEN
 - 20 SHADE POCKET
 - 21 WOOD BEAM S.S.D.
 - 22 ACCESSIBLE DRINKING FOUNTAIN
 - 23 WALL MOUNTED PLASMA SCREEN, N.I.C.
 - 24 CAMERA/PROJECTOR NICHE W/ WOOD FINISH
 - 25 FLUSH MOUNTED RECEPTACLE-SEE ELECTRICAL & EA DWGS.
 - 26 FLUSH MOUNTED CONTROL-SEE ELECTRICAL & EA DWGS.
 - 27 FIRE ALARM DEVICE-S.E.D.
 - 28 PROVIDE BACKING PLATES PER DETAIL 14/AS.01
 - 29 THERMOSTAT, S.M.D.
 - 30 PHONE, N.I.C.
 - 31 PAINTED MTL. UTILITY CHASE
 - 32 CABLE PASS-THRU W/ DOOR
 - 33 RECESSED ALUM. PICTURE RAIL
 - 34 ALUM. ENTRY DOOR & WINDOWS-SEE EXT. WINDOW SCHEDULE
 - 35 SEATING CHART WHERE SHOWN ON PLAN
 - 36 STAINLESS STEEL PIN LETTERS-N.I.C.
 - 37 RECESSED FIRE EXTINGUISHER CABINET
 - 38 ACCESSIBLE TOILET SIGNAGE PER ADAAG & CBC
 - 39 MAXIMUM OCCUPANCY SIGN
 - 40 ASSISTIVE LISTENING DEVICE SIGN
 - 41 WATER HEATER, S.P.D.
 - 42 GE MONOGRAM MODEL # ZFSB260RSS, S.P.D., CFCI
 - 43 MIELE TOUCHTRONIC MODEL # G694SC, STAINLESS STL. CONTROL PANEL #21995886, STAINLESS STEEL DOOR WITH 4" TOE KICK #0200; S.P.D.; CFCI

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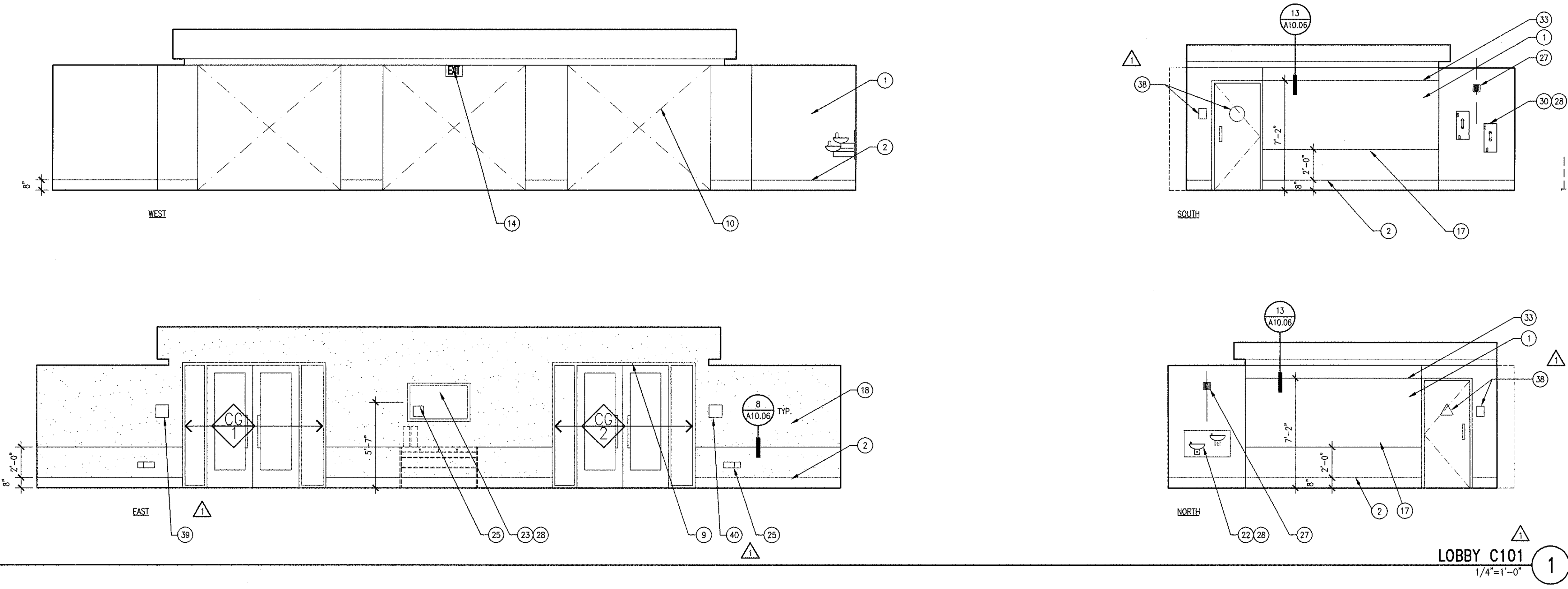
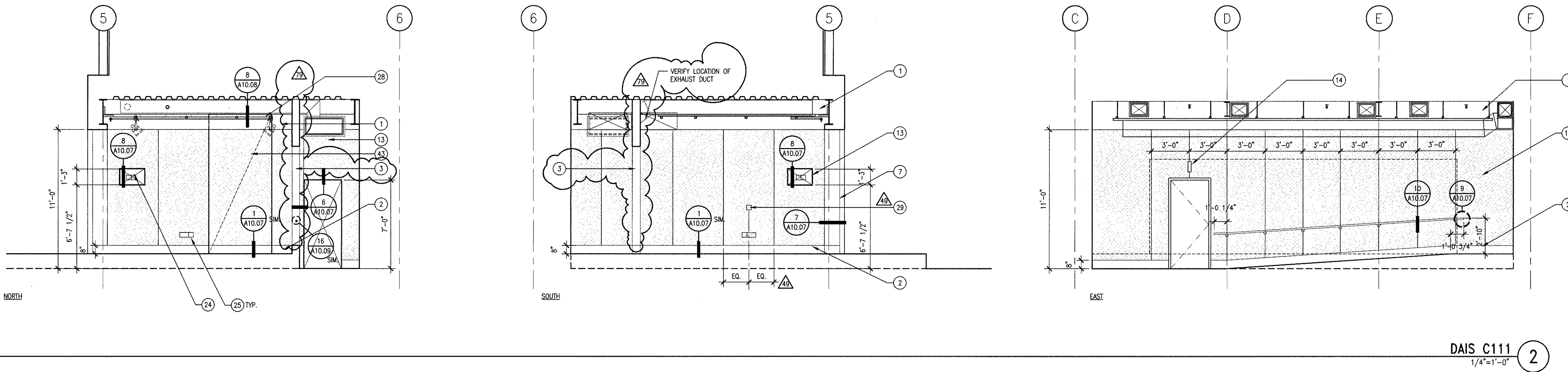
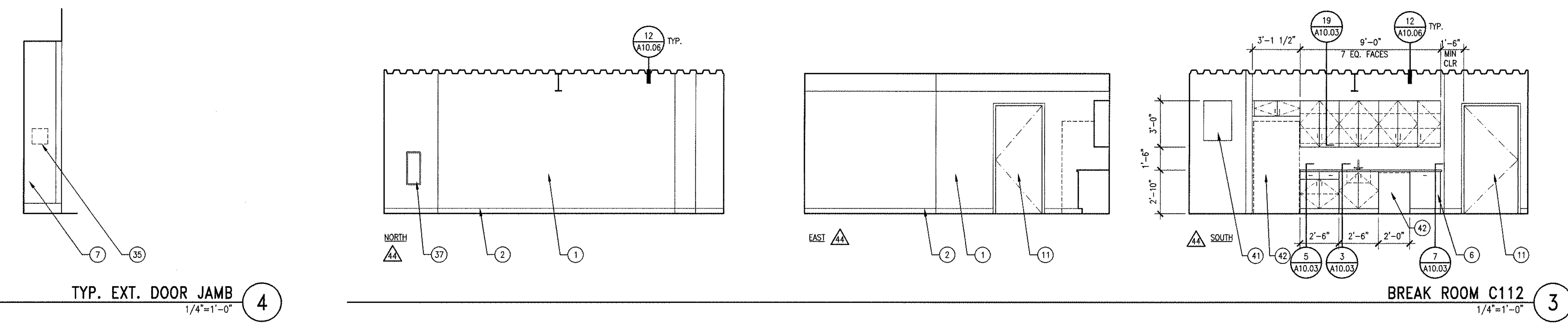
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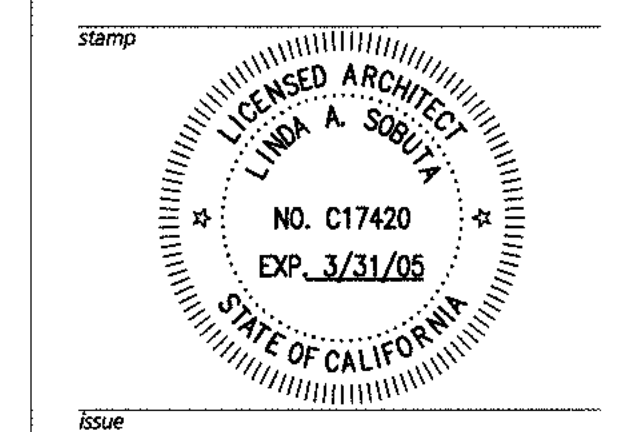
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2003.05.07	ADDENDUM NO. 1
2004.03.05	CCD 02
2004.06.22	CCD 77

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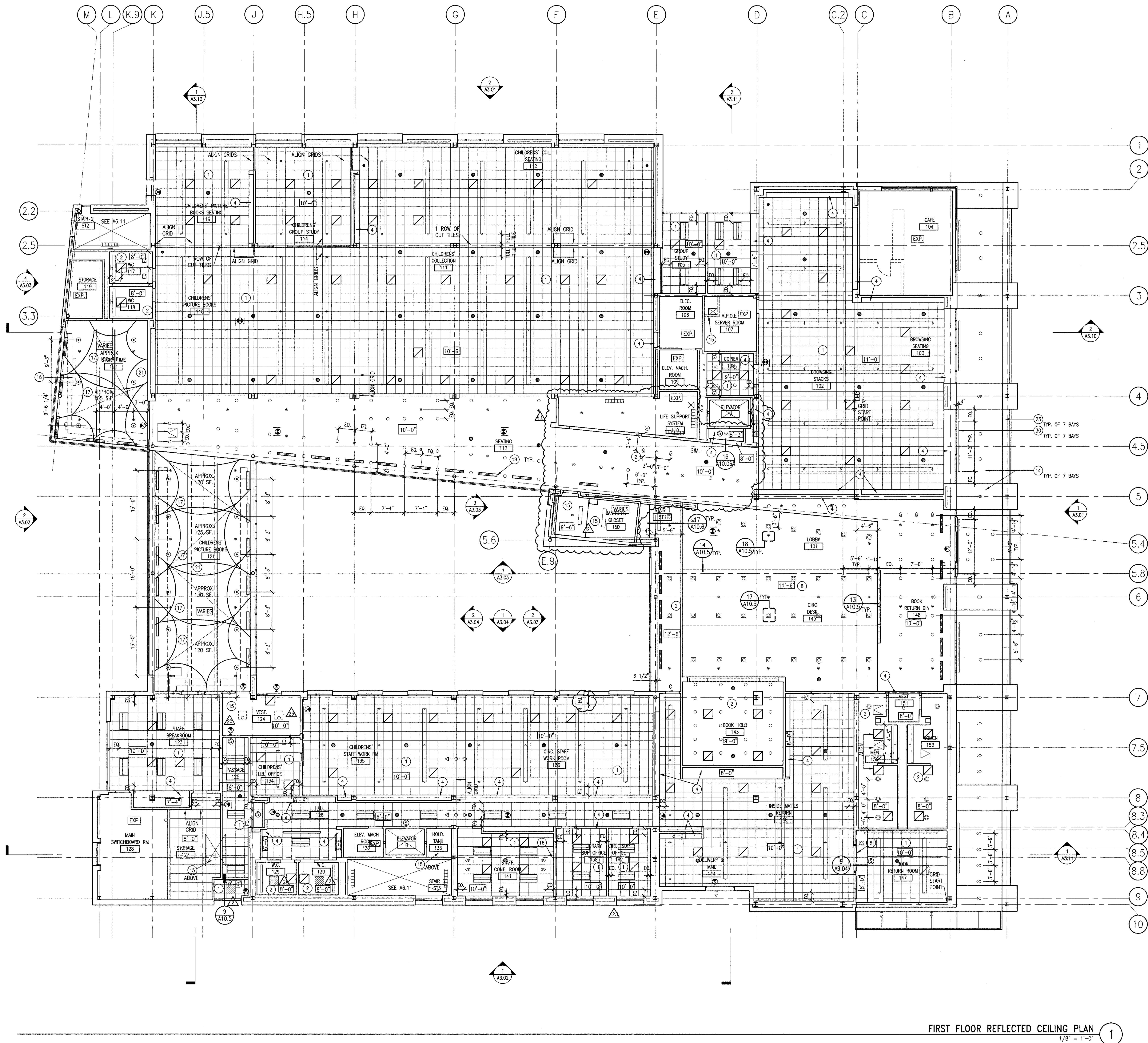
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COMMUNITY
 HALL
 INTERIOR
 ELEVATIONS

Scale: 1/4" = 1'-0"
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 Drawn by: LO
 Project number: 20114.00
 Sheet number: 10

A5.21

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FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

- GENERAL NOTES
- NOT ALL LIGHT FIXTURES ARE SHOWN. SEE ELECTRICAL DRAWINGS FOR ALL LIGHT FIXTURE TYPES AND QUANTITIES IN PUBLIC, STAFF AND SUPPORT SPACES.
 - SEE TEL/COM DRAWINGS FOR CABLE TRAY ROUTING ABOVE CEILING.
 - SEE TEL/COM DRAWINGS FOR CCTV CAMERA LOCATIONS.
 - SEE WINDOW SCHEDULES ON A9.05 & A9.15 FOR SOLAR & BLACKOUT SHADE LOCATIONS. SEE SPEC. SECTION 0124-ALTERNATES TO PROVIDE POWER FOR SHADES.
 - AT ACOUSTICAL MTL DECK, ALIGN PERFORATION PATTERN BETWEEN PANELS.
 - SUSPENDED CEILING SYSTEMS TO COMPLY WITH IBC STANDARD 25-2. SEE DRAWING A10.05.
 - LIGHTS, SPRINKLERS AND ALL OTHER CEILING PENETRATIONS TO HAVE 2" DOWN AND 1" UP ADJUSTMENT FOR FINAL INSTALLATION IN SPECIAL FABRIC AND PVC CEILING.

- KEYNOTES
- 2' x 2' ACOUSTICAL TILE
 - GYPNUM WALL BOARD CEILING
 - 2' x 4' LAY-IN GWB CLNG.
 - GYPNUM WALL BOARD SOFFIT; SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHT
 - 30x30 MTL ACCESS PANEL, PTD.
 - OVERHEAD FIRE-RATED COILING DOOR; CONSTRUCT GYP. BO. SOFFIT TO ENCLOSE DOOR HOUSING.
 - CURTAIN TRACK
 - SPECIAL FABRIC CEILING SYSTEM
 - EXPOSED MECHANICAL DUCT, PTD.
 - EXPOSED ACOUSTICAL DECKING, PAINTED
 - GWB CEILING W/CUSTOM FINISH
 - TRUSS, PTD.; S.S.D.
 - SOLAR SHADE ASSEMBLY
 - CEMENT PLASTER SOFFIT
 - ONE HOUR RATED HORIZONTAL ENCLOSURE IN CEILING PLenum; SEE 9/A9.01
 - PROJECTION SCREEN
 - CABLE SUPPORTED FABRIC CEILING
 - BLACK-OUT SHADE ASSEMBLY
 - MECHANICAL REGISTER-S.M.D.
 - RECESSED LOUDSPEAKER, N.I.C. -SEE EA DRAWINGS FOR ROUGH-IN @ COMMUNITY HALL
 - 2" BLACK ACOUSTICAL BD. ON STRUCT. DECK
 - ROUTE ALL VERTICAL PIPES & CONDUIT FOR HIGH CLG THROUGH VERTICAL UTILITY CHASE; SCRIBE CEILING FINISH TERMINATION- PIPE CAN NOT BE DISCONNECTED FOR CEILING INSTALLATION.
 - COMPOSITE METAL PANEL
 - PIPING, PTD.; SEE MECH. & PLUMBING DWGS.
 - STRUCTURAL GLUED LAMINATED BEAM OR TRUSS, S.S.D.; CLEAR SEALER
 - ACOUSTICAL DUCT ENCLOSURE: (2) LAYERS 5/8" GYP. BO. OVER METAL STUDS W/ BATT INSULATION; SM. TO 9/A9.01.
 - PRE-FINISHED SOFFIT PANEL
 - SOFFIT VENT; PRE-FINISHED PERFORATED SOFFIT PANEL
 - SPECIAL STRETCHED PVC CEILING SYSTEM
 - 4" SOFFIT VENT

- LEGEND
- 2' x 2' ACT
 - 2' x 4' LAY-IN GYPNUM CEILING PANELS
 - MECHANICAL DIFFUSER, S.M.D.
 - 2' x 2' ACCESS PANEL, PAINTED
 - 2' x 2' RADIANT HEATING PANEL, S.M.D.
 - 2' x 2' 1-HR. RATED ACCESS PANEL IN RATED DUCT ENCLOSURE, COORD W/MECH.
 - EXIT SIGN, CEILING OR WALL MOUNTED
 - SPRINKLER, SHOWN FOR DESIGN INTENT ONLY. VERIFY TYPE W/ARCHITECT
 - SEMI-RECESSED TROFFER LIGHT
 - SUSPENDED LINEAR UP/DOWN LIGHT
 - WALL MOUNTED LINEAR LIGHT
 - WALL MOUNTED LINEAR LIGHT
 - STACK MOUNTED LIGHT
 - RECESSED DOWNLIGHTS
 - PENDANT DOWNLIGHTS
 - RECESSED WALL WASHER
 - RECESSED WALL LIGHT
 - SUSPENDED INDUSTRIAL FLUORESCENT LIGHT
 - PHOTOCELL
 - CCTV CAMERA
 - SPEAKER; SEE TELECOM DRAWINGS
 - SMOKE DETECTOR, CEILING OR WALL MOUNTED
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11-29-04 Updated Contract Documents

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Hargreaves Associates
2020 17th Street
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Suite 500
San Francisco, CA 94105
415 398 3833 T
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370 Branban Street
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Revisions:

2003.05.30	ADDENDUM NO. 2
2003.11.24	CCD NO. 10.1
2003.12.23	CCD NO. 18
2004.01.15	CCD NO. 21
2004.02.04	CCD NO. 7.5

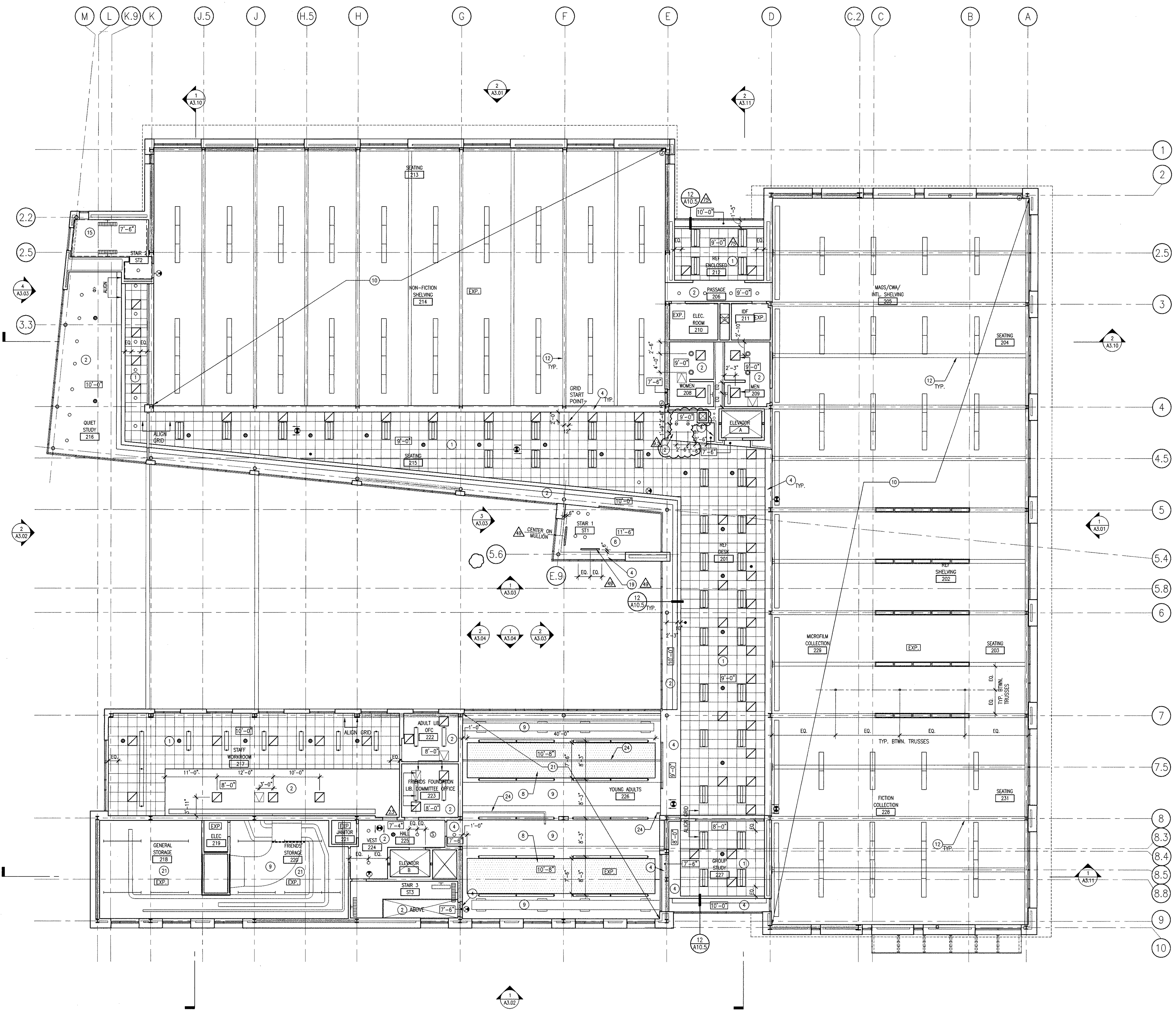
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FIRST FLOOR
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CEILING PLAN

Scale: 1/8" = 1'-0"
drawn by: LR/GN
sheet number: 2003.04.18
project number: 20114.00

A6.10

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SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

- GENERAL NOTES
1. NOT ALL LIGHT FIXTURES ARE SHOWN. SEE ELECTRICAL DRAWINGS FOR ALL LIGHT FIXTURE TYPES AND QUANTITIES IN PUBLIC, STAFF AND SUPPORT SPACES.
 2. SEE TEL/COM DRAWINGS FOR CABLE TRAY ROUTING ABOVE CEILING.
 3. SEE TEL/COM DRAWINGS FOR CCTV CAMERA LOCATIONS.
 4. SEE WINDOW SCHEDULES ON A9.05 & A9.15 FOR SOLAR & BLACKOUT SHADE LOCATIONS. SEE SPEC. SECTION 0124-ALTERNATES TO PROVIDE POWER FOR SHADES.
 5. AT ACOUSTICAL MTL. DECK, ALIGN PERFORATION PATTERN BETWEEN PANELS.
 6. SUSPENDED CEILING SYSTEMS TO COMPLY WITH UBC STANDARD 25-2. SEE DRAWING A10.05.
 7. LIGHTS, SPRINKLERS AND ALL OTHER CEILING PENETRATIONS TO HAVE 2" DOWN AND 1" UP ADJUSTMENT FOR FINAL INSTALLATION IN SPECIAL FABRIC AND PVC CEILING.

- KEYNOTES
- 1 2' x 2' ACOUSTICAL TILE
 - 2 GYPSUM WALL BOARD CEILING
 - 3 2' x 4' LAY-IN GWB CLNG.
 - 4 GYPSUM WALL BOARD SOFFIT; SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHT
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 - 12 TRUSS, PTD.; S.S.D.
 - 13 SOLAR SHADE ASSEMBLY
 - 14 CEMENT PLASTER SOFFIT
 - 15 ONE HOUR RATED HORIZONTAL ENCLOSURE IN CEILING PLENUM; SEE 9/A9.01
 - 16 PROJECTION SCREEN
 - 17 CABLE SUPPORTED FABRIC CEILING
 - 18 BLACK-OUT SHADE ASSEMBLY
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 - 28 SOFFIT VENT; PRE-FINISHED PERFORATED SOFFIT PANEL
 - 29 SPECIAL STRETCHED PVC CEILING SYSTEM
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 - SMOKE DETECTOR, CEILING OR WALL MOUNTED
 - THERMOSTAT

revisions

	2004.01.15	CDD NO. 21
	2004.02.04	CDD NO. 7.5

11-29-04 Updated Contract Documents

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SECOND FLOOR
REFLECTED
CEILING PLAN

scale: 1/8" = 1'-0"
drawn by: LS/GN
sheet number: 2003.04.18
project number: 20114.00

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408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Merlo Drive, Suite 1
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916 435 2400 T
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2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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Forell/Eisesser Engineers, Inc.
160 Pine Street
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415 337 0700 T
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405 Howard Street
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San Francisco, CA 94105
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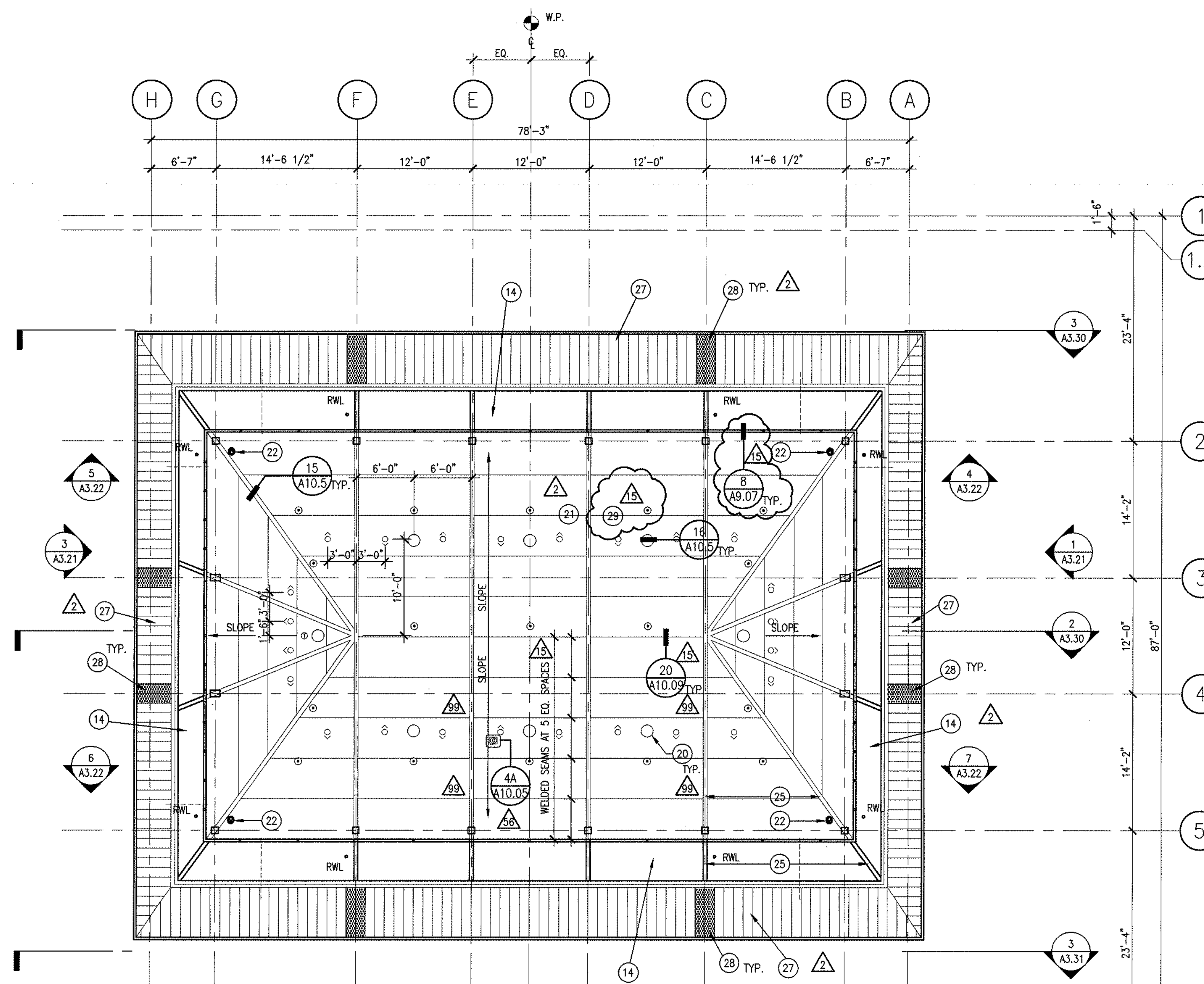
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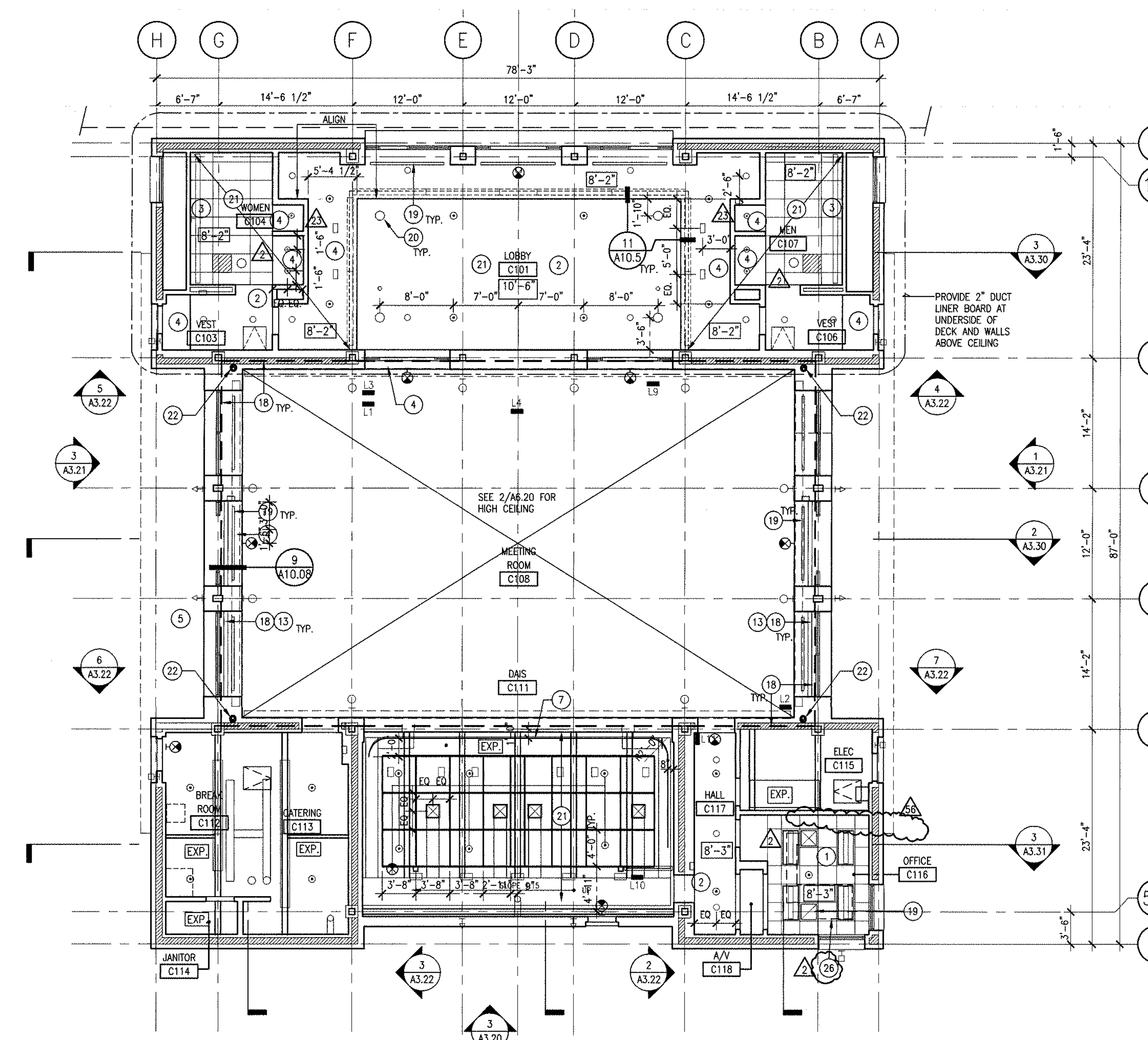
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interiors
planning
graphic design

ARCHITECT
LUCAS A. SOBUT
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

BID SET



COMMUNITY HALL HIGH REFLECTED CEILING PLAN
1/8" = 1'-0" 2



COMMUNITY HALL REFLECTED CEILING PLAN
1/8" = 1'-0" 1

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revisions

2003.05.30	ADDENDUM NO. 2
2003.11.03	CCD 13 DELTA 15

11-29-04 Updated Contract Documents

NO. C17420
EXP. 3/31/06

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COMMUNITY HALL REFLECTED CEILING PLAN

scale: 1/8" = 1'-0"
date: 2003.04.18
drawn by: project number: 20114.00
sheet number:

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Cupertino, CA 95014
408 777 3354 T
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Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
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Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
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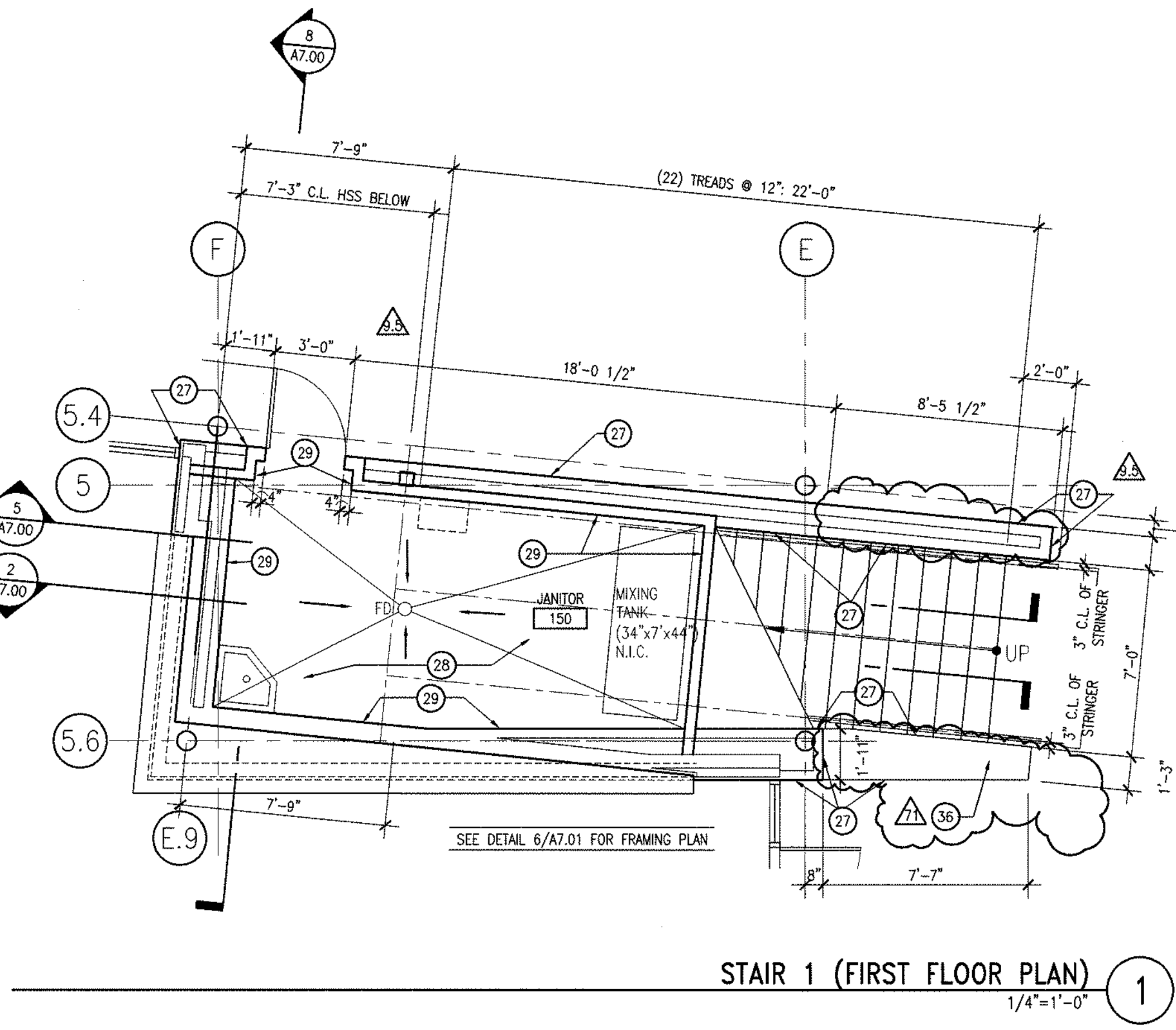
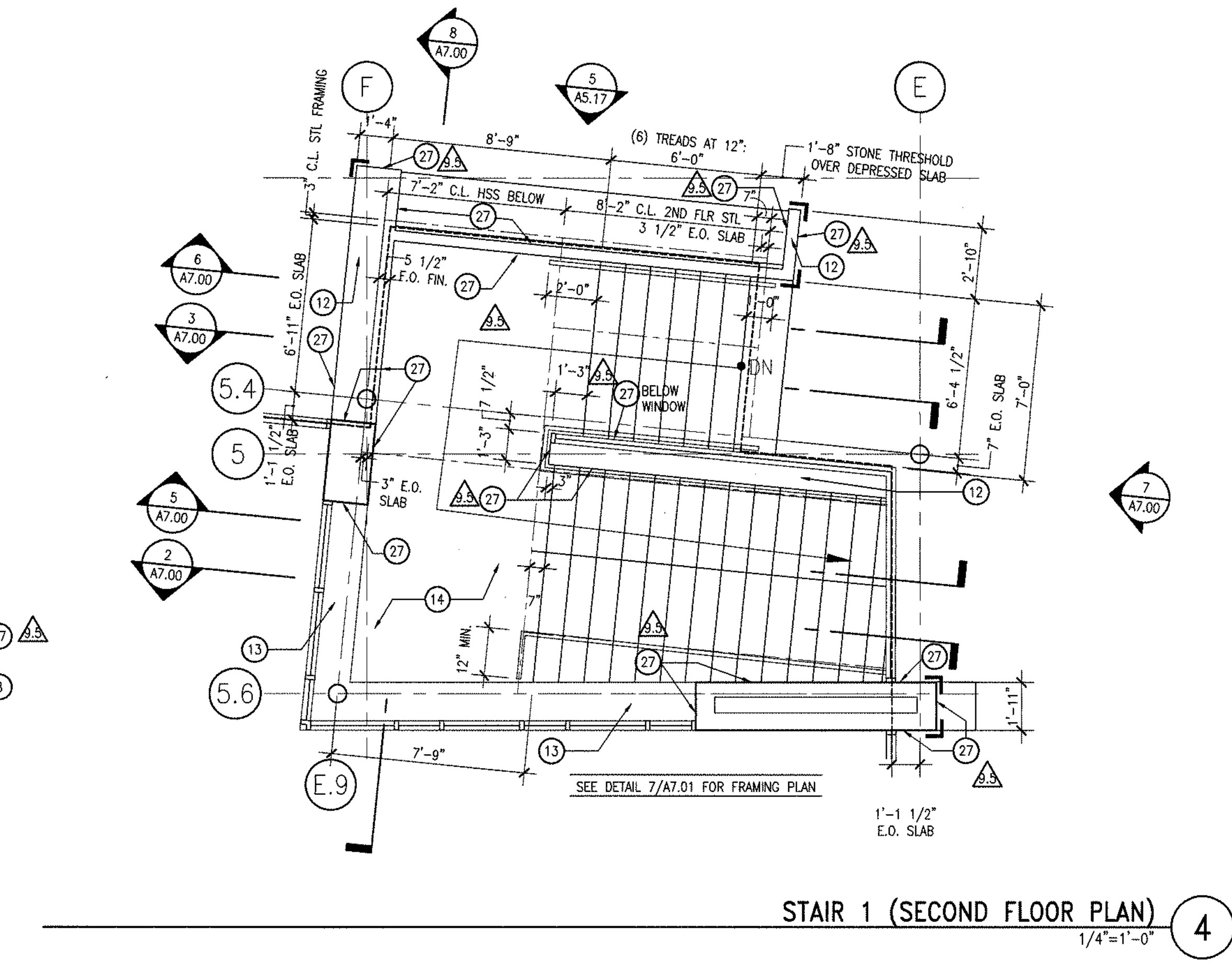
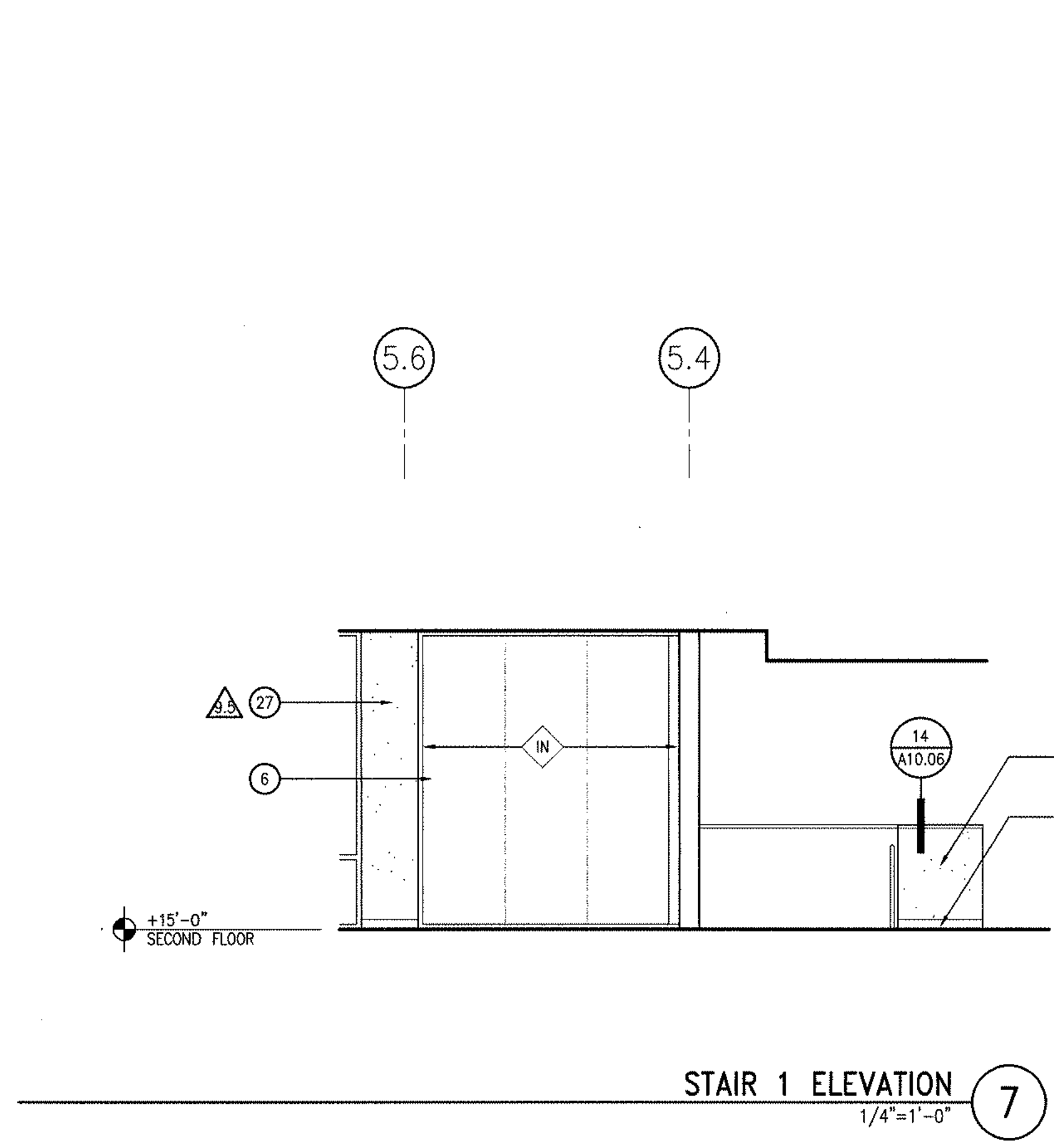
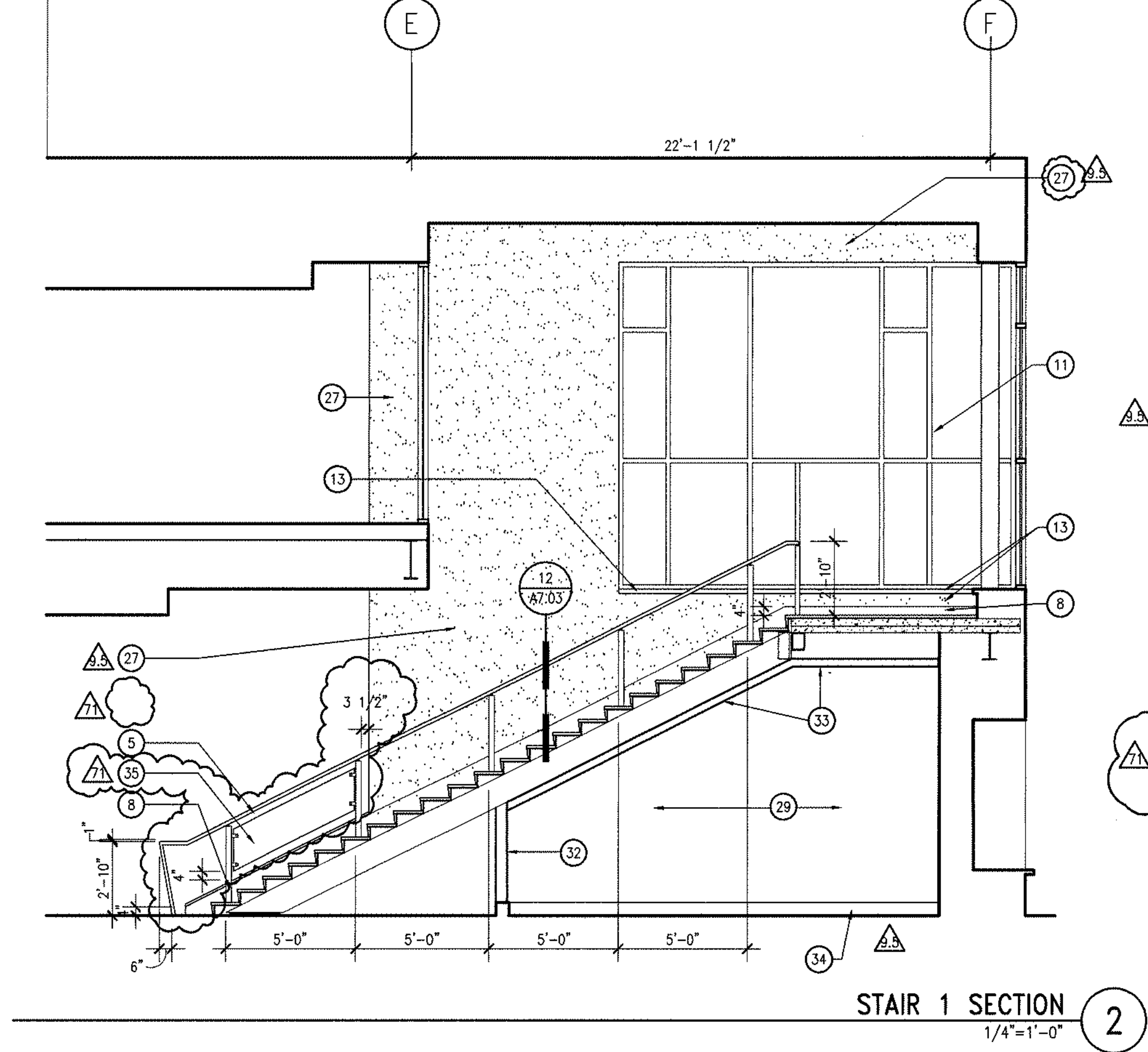
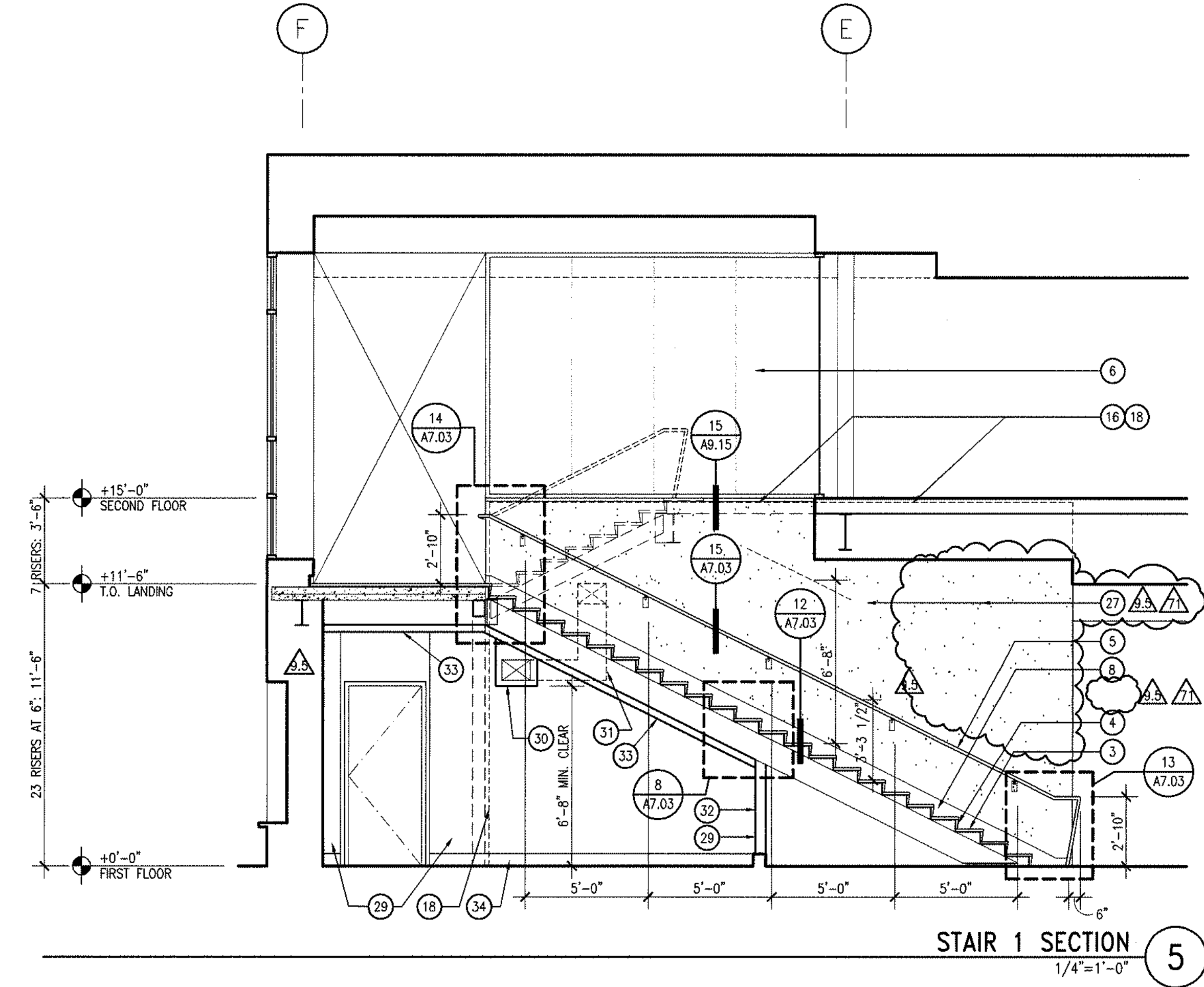
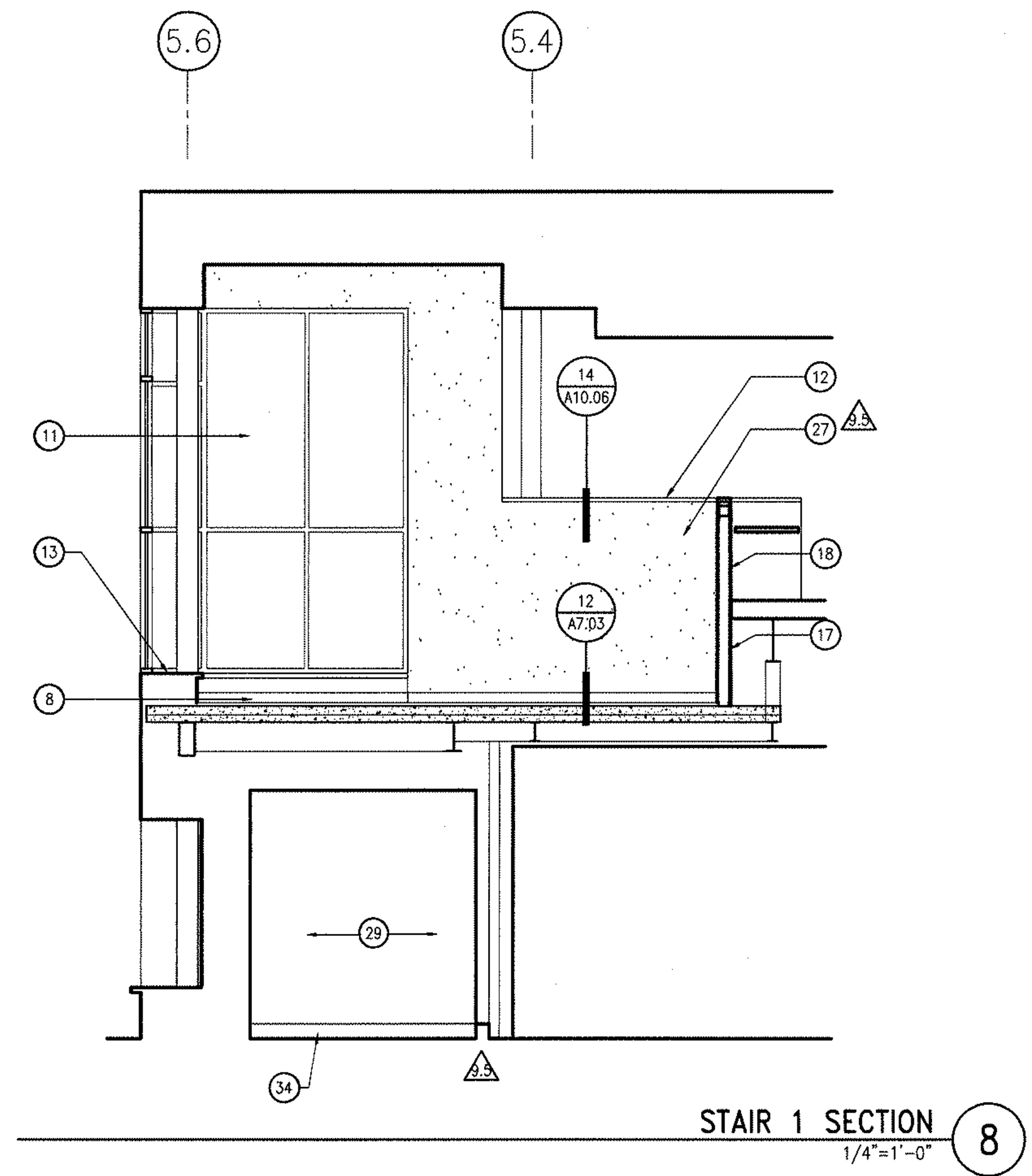
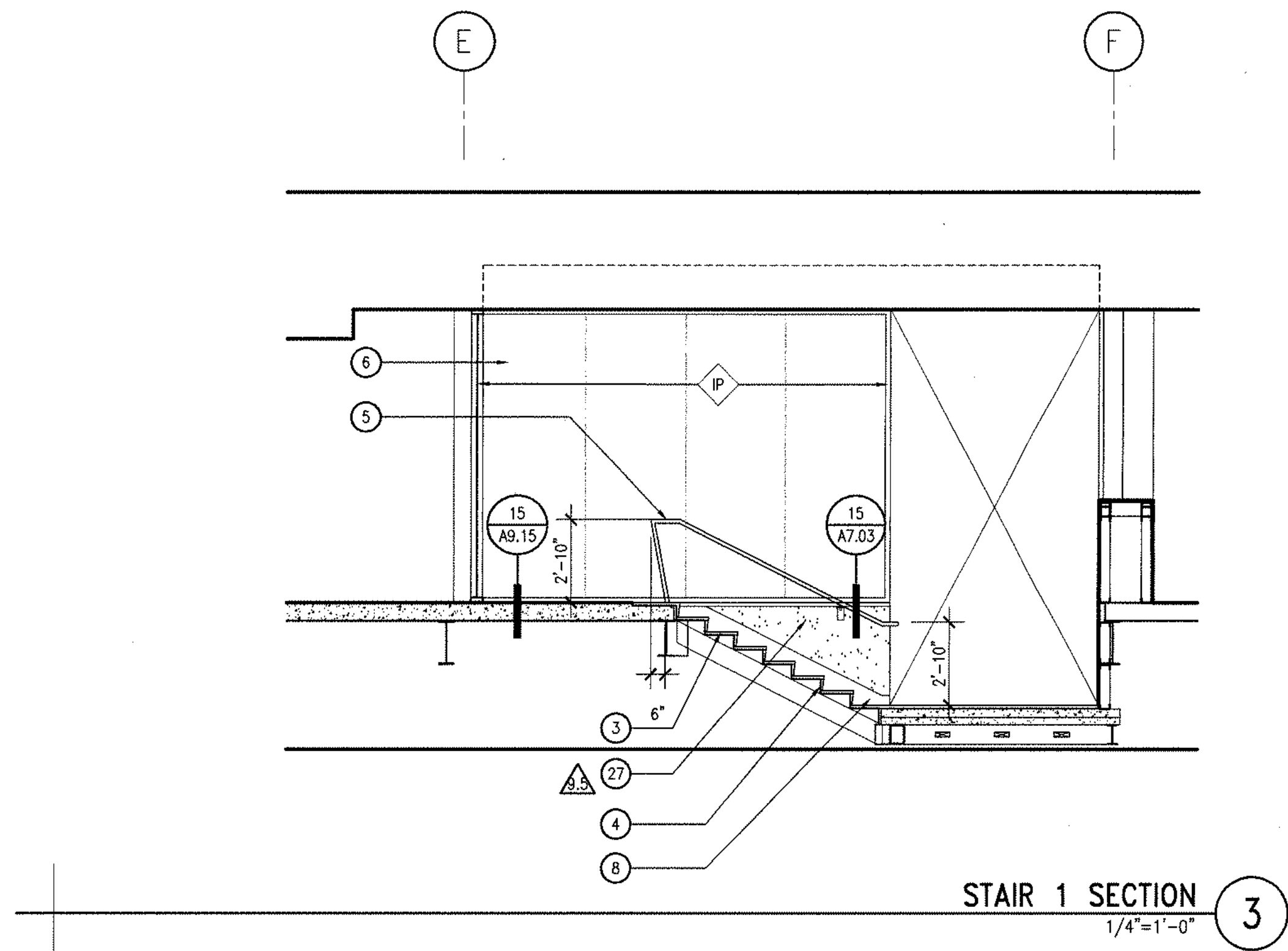
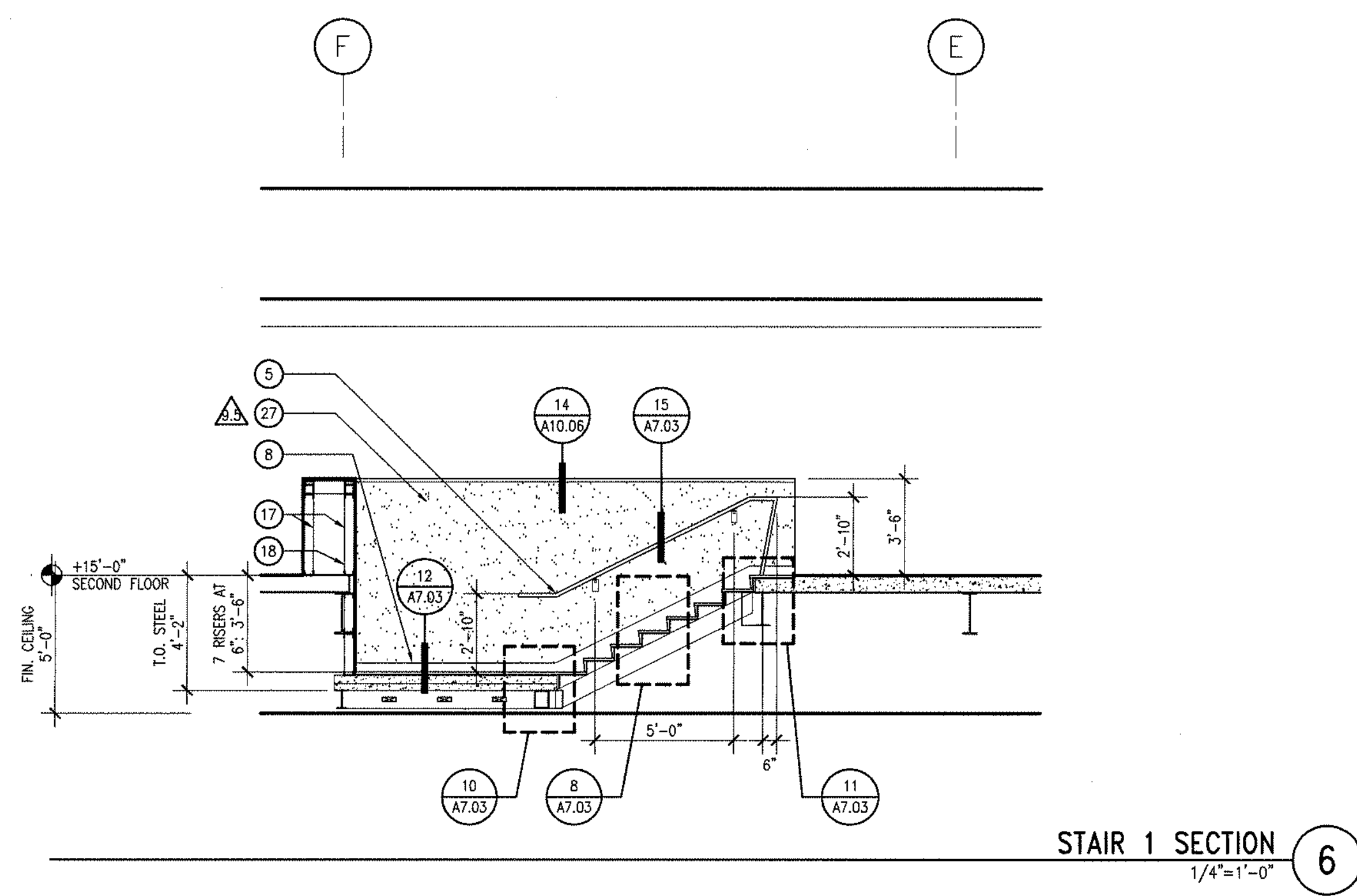
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GENERAL NOTES
 1. ALL DIMENSIONS ARE CLEAR AND F.O.F., U.O.N.
 2. FOR INT. FINISHES @ STAIRS, SEE FINISH SCHEDULE, U.O.N.
 3. HANDRAIL DESIGN SHALL BE ACCORDING TO C.B.C. SECTION 1003.3.6

- KEYNOTES
- 1 GYP. BD., PAINTED
 - 2 SCHEDULED WALL BASE
 - 3 STONE TREAD
 - 4 STONE RISER
 - 5 STAINLESS STL. HANDRAIL
 - 6 INTERIOR ALUM. GLAZING
 - 7 COLUMN S.S.D.
 - 8 RECESSED WD. BASE, PAINTED
 - 9 STEEL PAN CONC. FILLED STAIR
 - 10 1-1/2" O.D. PAINTED STEEL HANDRAIL; AT PARTITION, SEE DETAIL 5/A7.03
 - 11 EXTERIOR WINDOW, SEE FLOOR PLANS FOR WINDOW TYPE REFERENCES
 - 12 WOOD CAP, WD-1
 - 13 BUILT-IN BENCH, WD-1
 - 14 1 1/4" STONE OVER 1/4" THINSET OVER STAIR LANDING S.S.D.
 - 15 BEAM PENETRATIONS S.S.D.
 - 16 CONTINUOUS HEAVY GA. MTL. CAP
 - 17 SCHEDULED PARTITION
 - 18 SECURE EA. STUD TO EDGE OF SLAB OR STL. BEYOND
 - 19 12" x 12" STAIR ID SIGN PER CBC 1003.3.3.13 & UBC STANDARD 10-2
 - 20 EMERGENCY EVACUATION SIGN PER CA TITLE 19 CODE
 - 21 DETECTABLE BARRIER; SEE 1/A7.02
 - 22 STEEL GATE; SEE 2/A7.02
 - 23 STEEL BEAM BELOW, S.S.D.
 - 24 GUARDRAIL; SEE 5/A7.02
 - 25 WARNING STRIP; 2" WIDE AND A MAX. OF 1" FROM THE TREAD NOSING OR LANDING
 - 26 TACTILE STAIR ID SIGN PER CBC 1133B.4.3
 - 27 ARTISAN VENEER PLASTER FINISH
 - 28 NON-SLIP TRAFFIC COATING OVER CONC. SLAB & CONC. CURBS
 - 29 FIBERGLASS REINFORCED WALL PANELS
 - 30 1-HR. GYP. BD. ENCLOSURE @ MECH. FSD, S.M.D.
 - 31 EXHAUST DUCT TRANSITION BETWEEN DOUBLE STAIR WALKS
 - 32 1-HR. RATED PARTITION W/FRP PANELS
 - 33 1-HR. RATED GYP. BD. CEILING W/FRP PANELS
 - 34 CONC. CURBS W/TRAFFIC COATING
 - 35 1/2" POINT SUPPORTED GLASS, TEMPERED
 - 36 1 1/4" STONE CAP, ST-3



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ISSUED AS ARCHITECT
 LUNA A. SOUZA
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

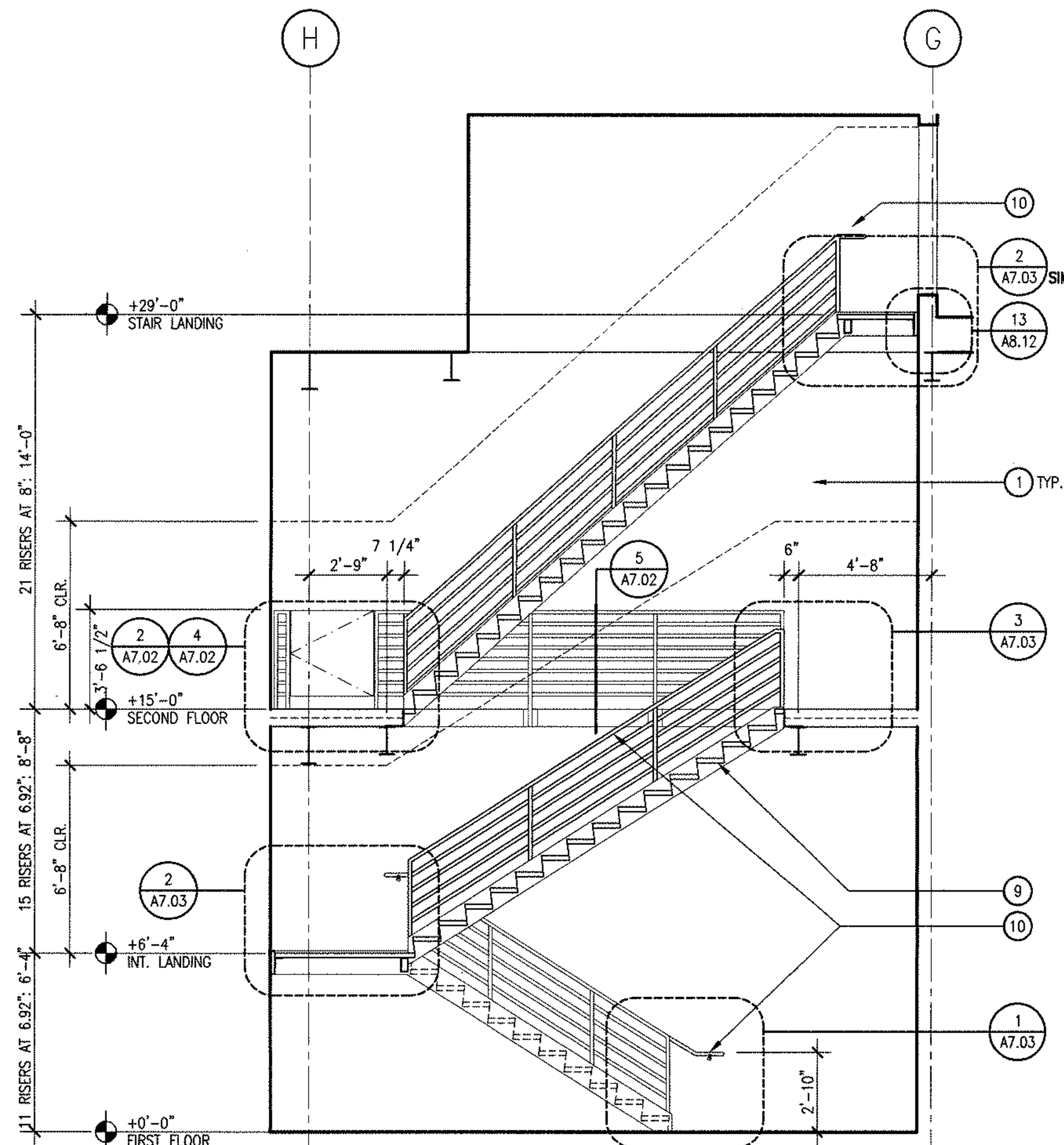
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VERTICAL
 CIRCULATION
 STAIRS

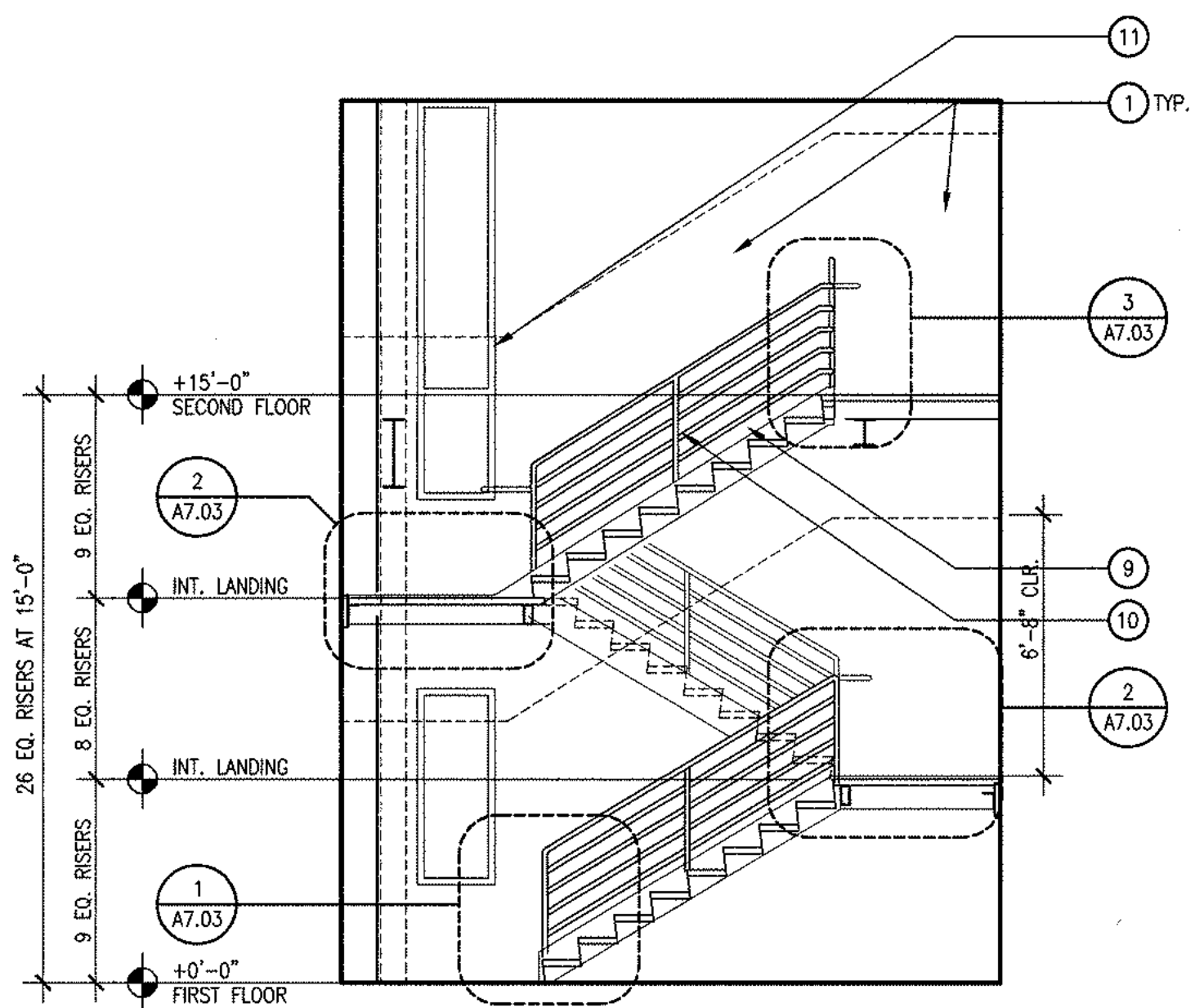
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 drawn by: CN
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 sheet number: A7.00

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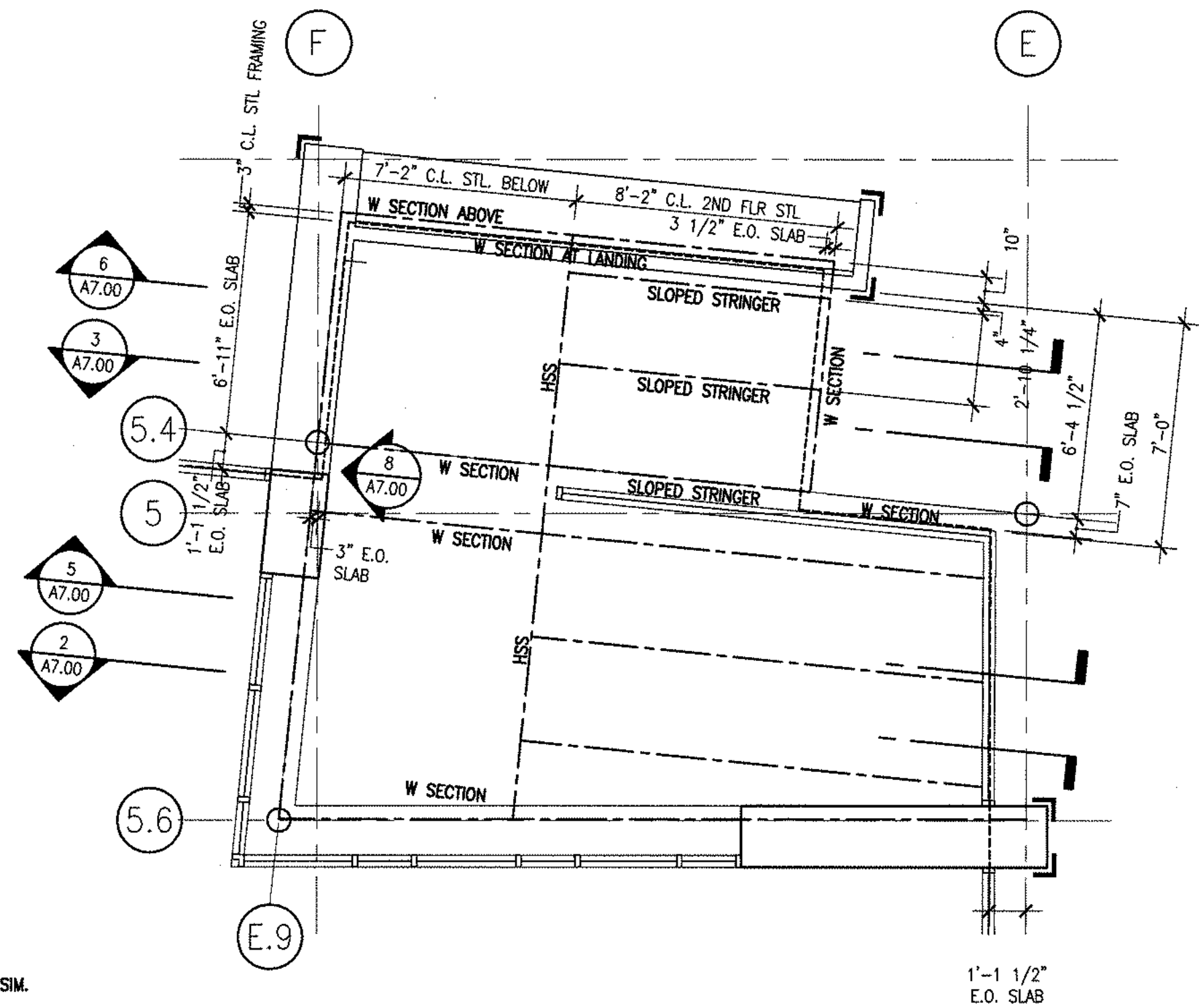
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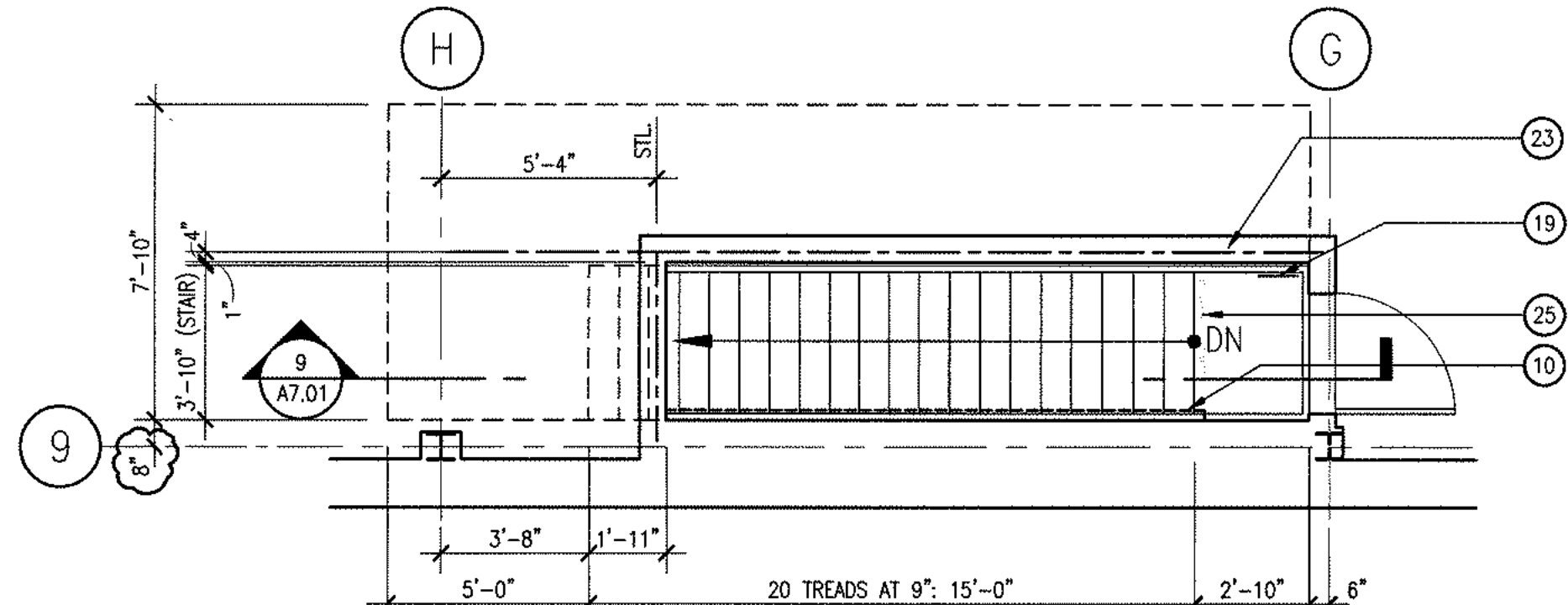
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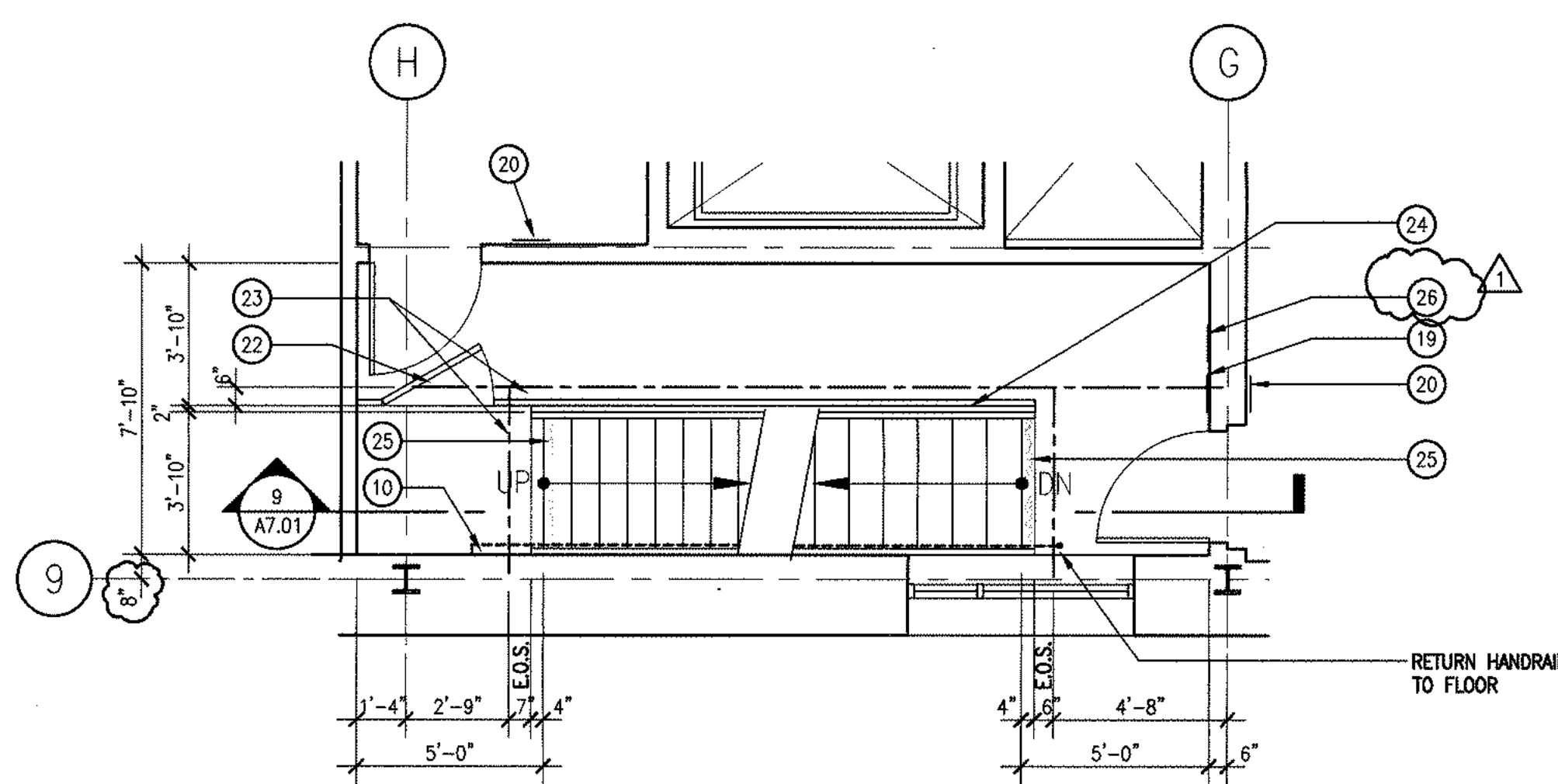
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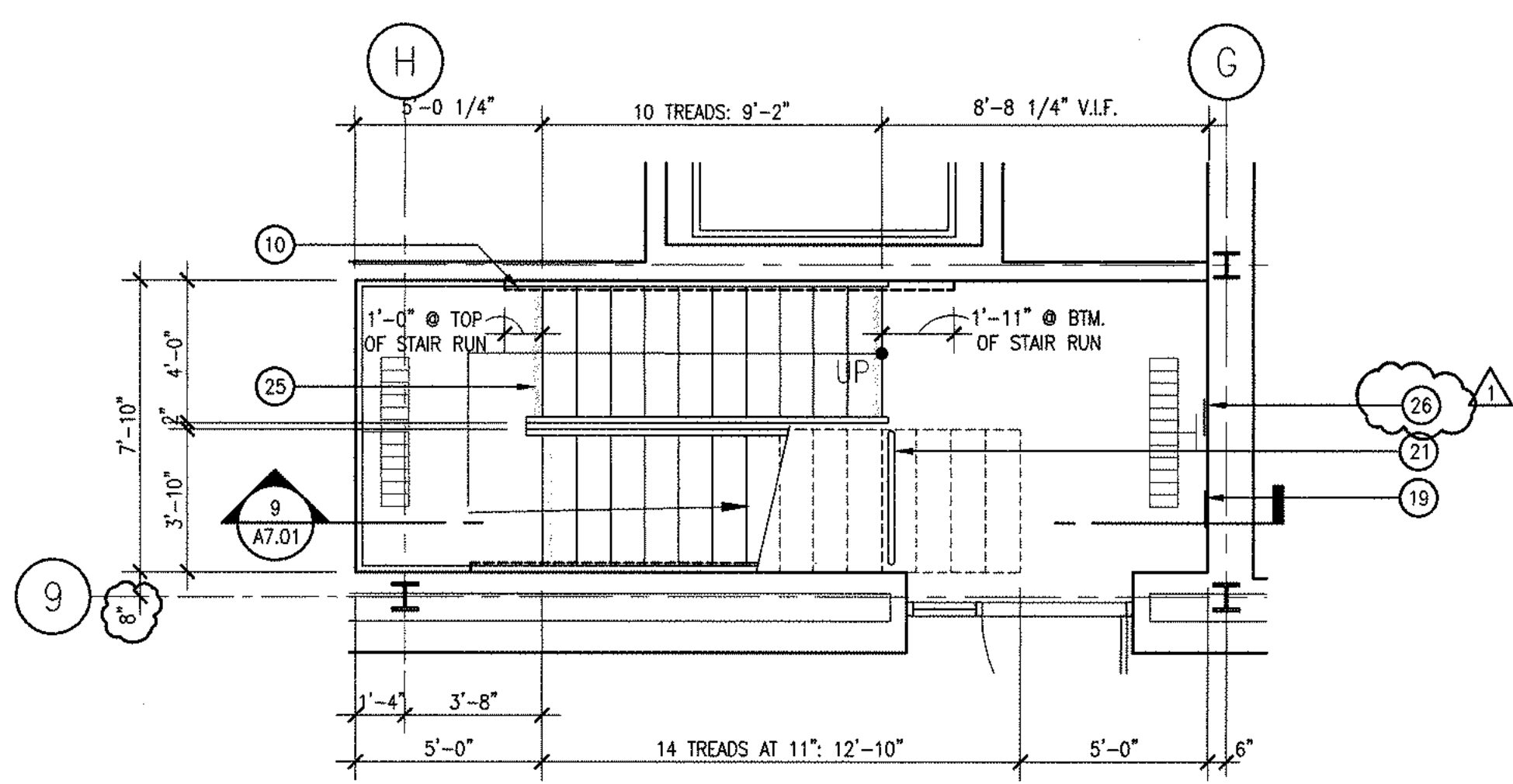
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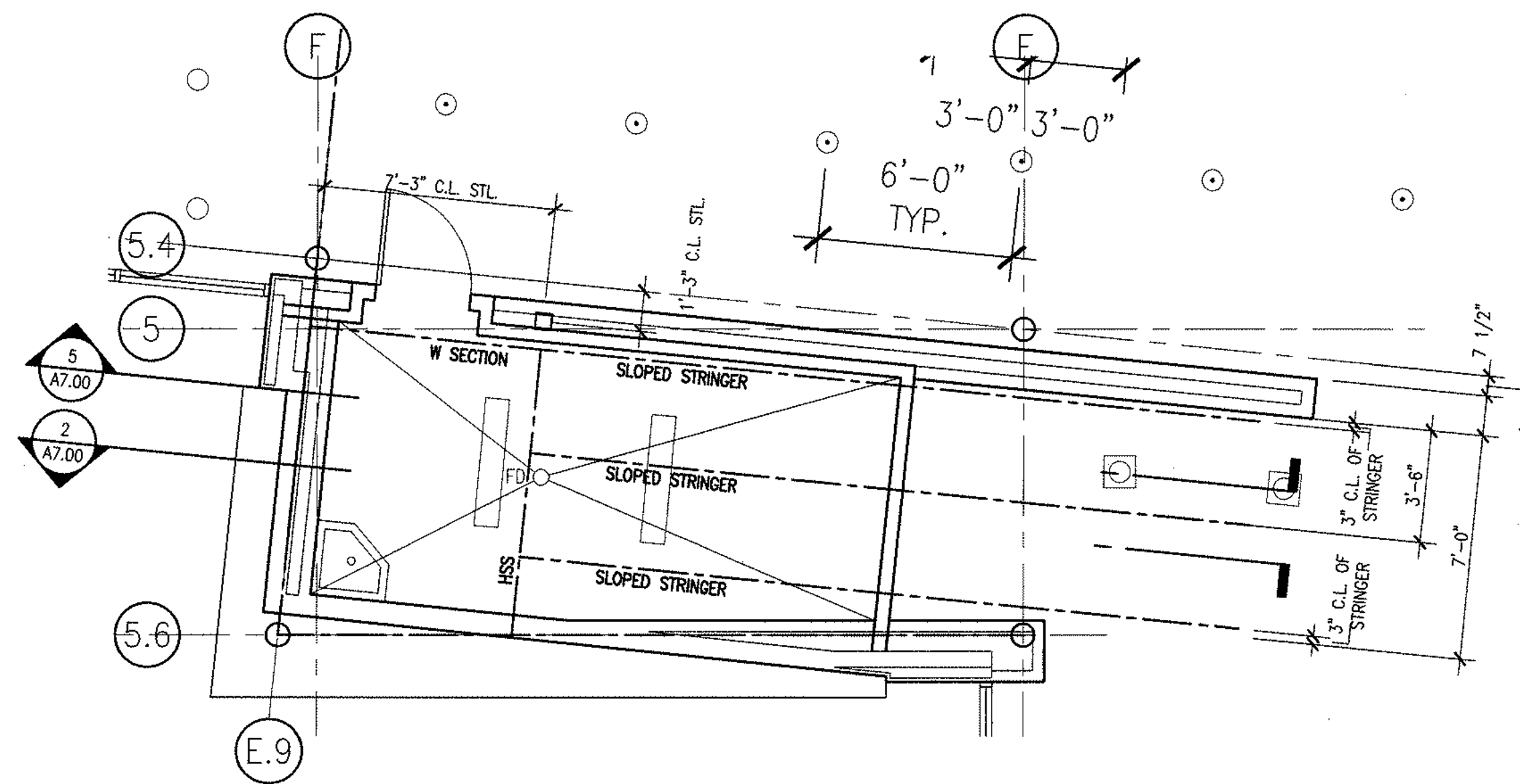
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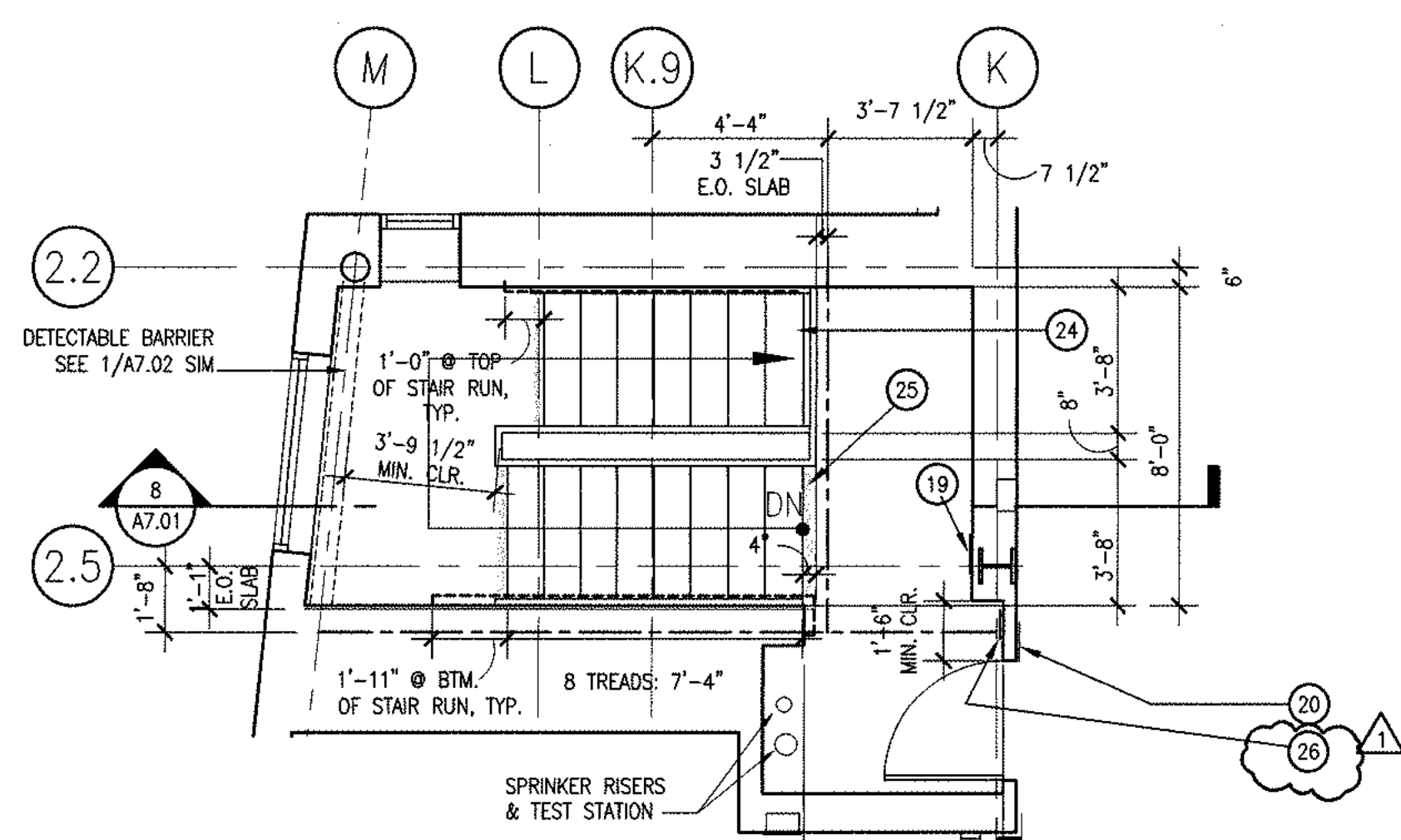
STAIR 3 (SECOND FLOOR PLAN) 4
1/4"=1'-0"



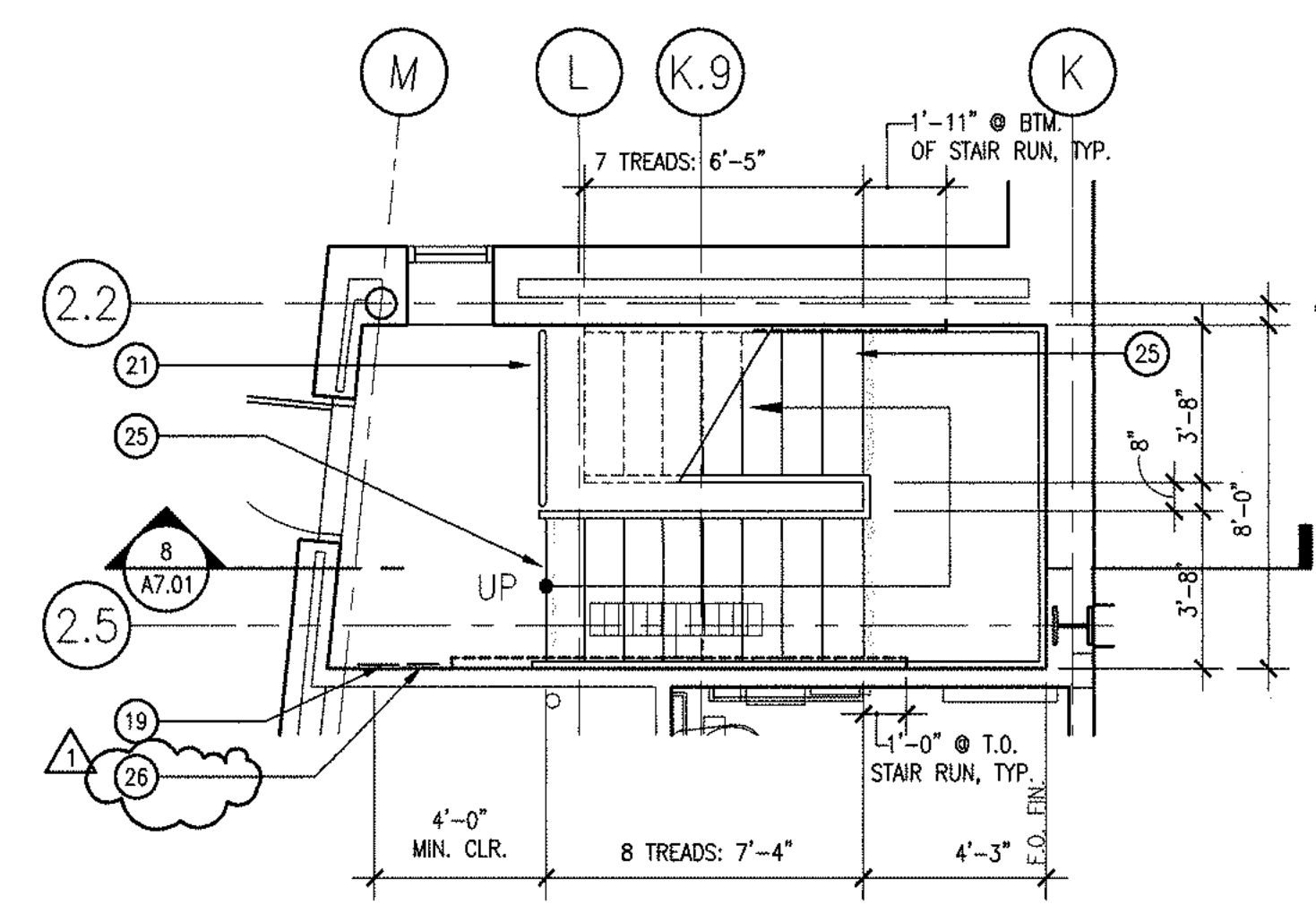
STAIR 3 (FIRST FLOOR PLAN) 3
1/4"=1'-0"



STAIR 1 (FIRST FLOOR FRAMING PLAN) 6
1/4"=1'-0"



STAIR 2 (SECOND FLOOR PLAN) 2
1/4"=1'-0"



STAIR 2 (FIRST FLOOR PLAN) 1
1/4"=1'-0"

- GENERAL NOTES
1. ALL DIMENSIONS ARE CLEAR AND F.O.F., U.O.N.
 2. FOR INT. FINISHES @ STAIRS, SEE FINISH SCHEDULE, U.O.N.
 3. HANDRAIL DESIGN SHALL BE ACCORDING TO C.B.C. SECTION 1003.3.6

- KEYNOTES
1. GYP. BD., PAINTED
 2. SCHEDULED WALL BASE
 3. STONE TREAD
 4. STONE RISER
 5. STAINLESS STL. HANDRAIL
 6. INTERIOR ALUM. GLAZING
 7. COLUMN S.S.D.
 8. RECESSED WD. BASE, PAINTED
 9. STEEL PAN CONC. FILLED STAIR
 10. 1-1/2" O.D. PAINTED STEEL HANDRAIL; AT PARTITION, SEE DETAIL S/A7.03
 11. EXTERIOR WINDOW, SEE FLOOR PLANS FOR WINDOW TYPE REFERENCES
 12. WOOD CAP, WD-1
 13. BUILT-IN BENCH, WD-1
 14. 1 1/4" STONE OVER 1/4" THINSET OVER STAIR LANDING S.S.D.
 15. BEAM PENETRATIONS S.S.D.
 16. CONTINUOUS HEAVY GA. MTL. CAP
 17. SCHEDULED PARTITION
 18. SECURE EA. STUD TO EDGE OF SLAB OR STL. BEYOND
 19. 12" X 12" STAIR ID SIGN PER CBC 1003.3.3.13 & UBC STANDARD 10-2
 20. EMERGENCY EVACUATION SIGN PER CA TITLE 19 CODE
 21. DETECTABLE BARRIER; SEE 1/A7.02
 22. STEEL GATE; SEE 2/A7.02
 23. STEEL BEAM BELOW, S.S.D.
 24. GUARDRAIL; SEE 5/A7.02
 25. WARNING STRIP; 2" WIDE AND A MAX. OF 1" FROM THE TREAD NOSING OR LANDING
 26. TACTILE STAIR ID SIGN PER CBC 11338.4.3
 27. ARTISAN VENEER PLASTER FINISH
 28. NON-SLIP TRAFFIC COATING OVER CONC. SLAB & CONC. CURBS
 29. FIBERGLASS REINFORCED WALL PANELS
 30. 1-HR. GYP. BD. ENCLOSURE @ MECH. FSD, S.M.D.
 31. EXHAUST DUCT TRANSITION BETWEEN DOUBLE STAIR WALLS
 32. 1-HR. RATED PARTITION W/FRP PANELS
 33. 1-HR. RATED GYP. BD. CEILING W/FRP PANELS
 34. CONC. CURB W/TRAFFIC COATING
 35. 1/2" POINT SUPPORTED ST-3
 36. 1 1/4" STONE CAP, ST-3

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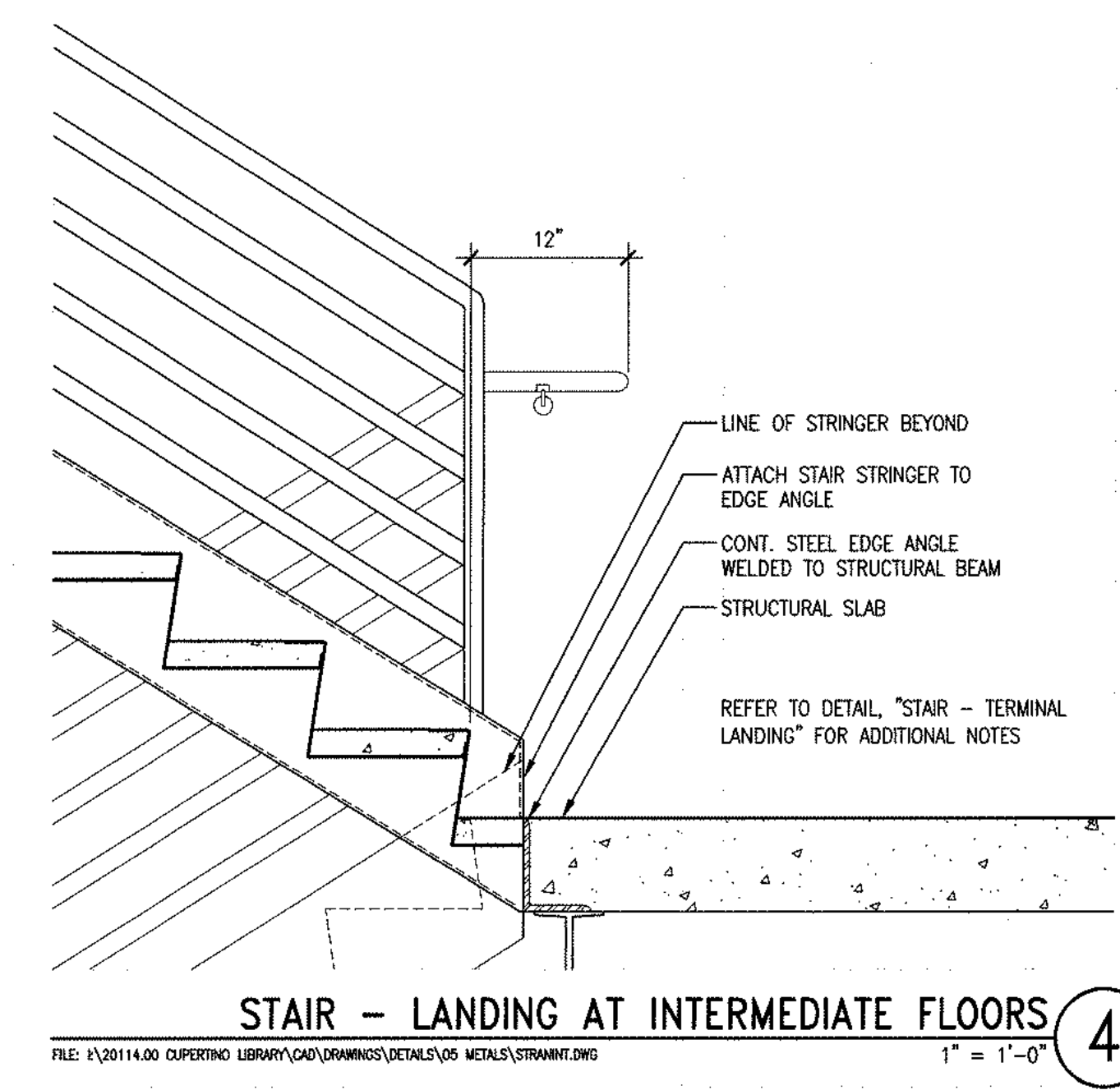
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VERTICAL
CIRCULATION
STAIRS

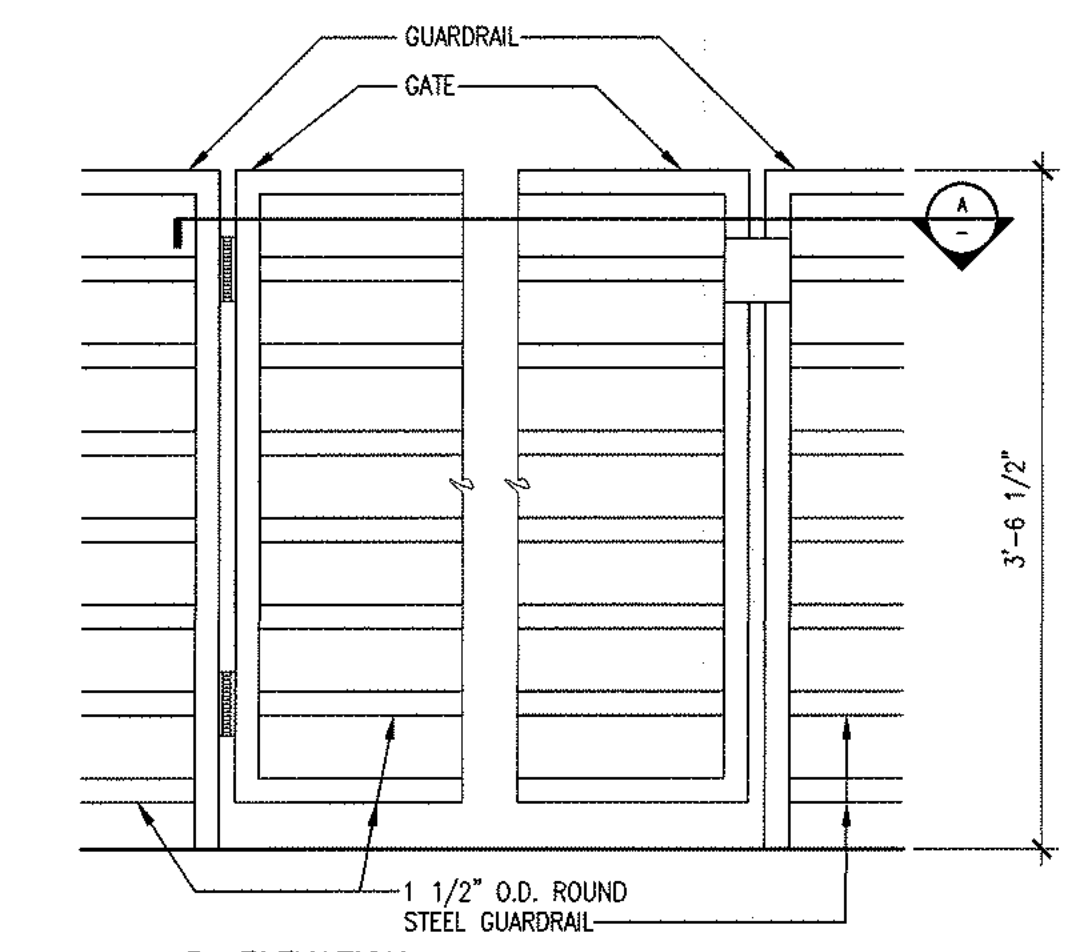
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DRAWN BY LO PROJECT NUMBER 20114.00
SHEET NUMBER

A7.01

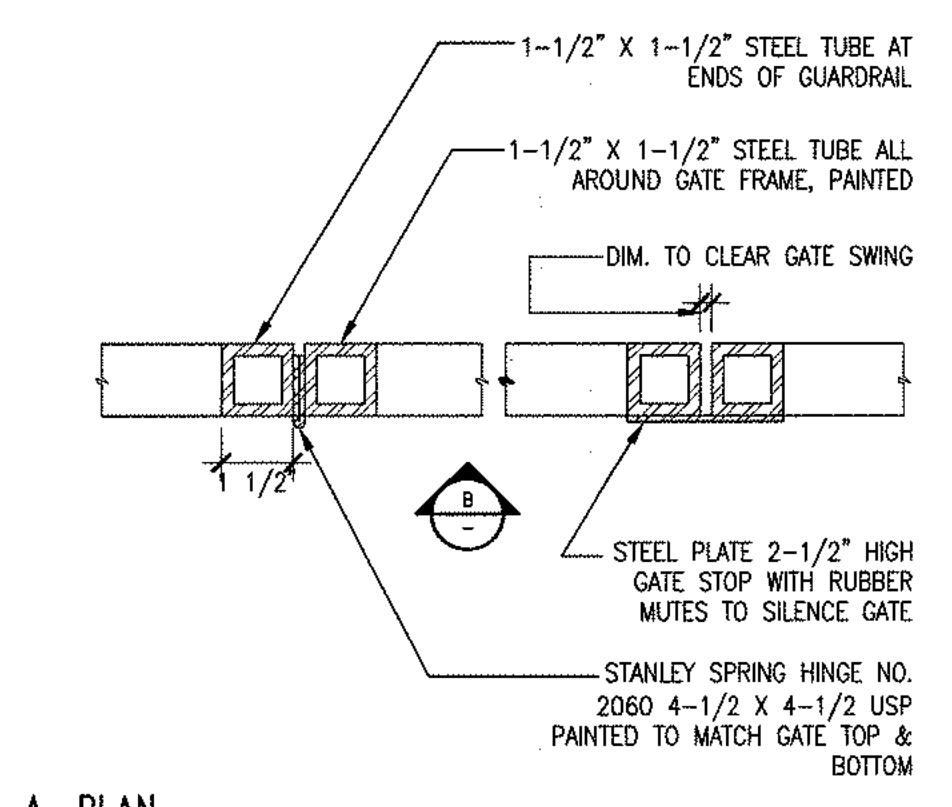
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STAIR - LANDING AT INTERMEDIATE FLOORS 4
1" = 1'-0"

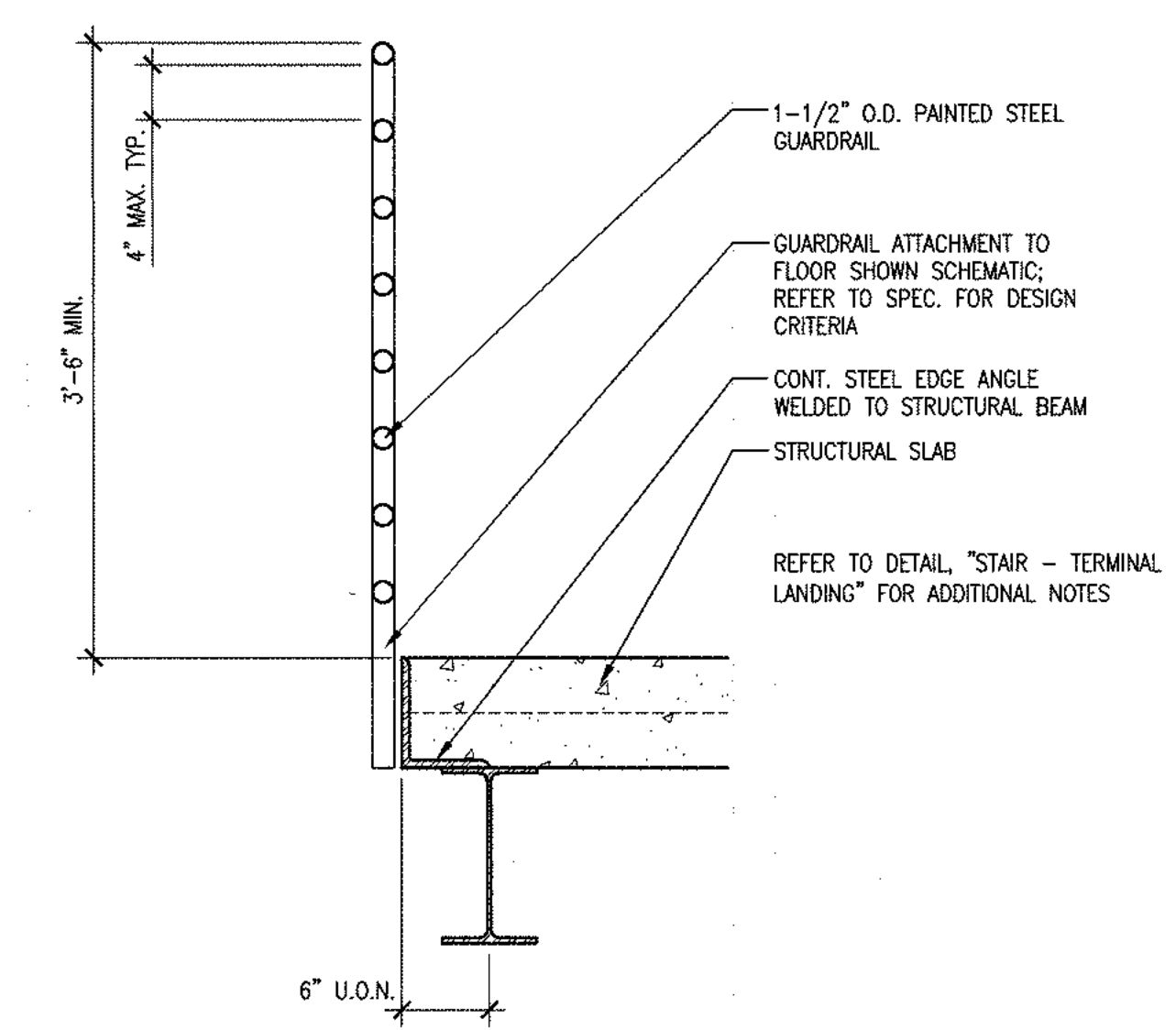


B. ELEVATION
1" = 1'-0"

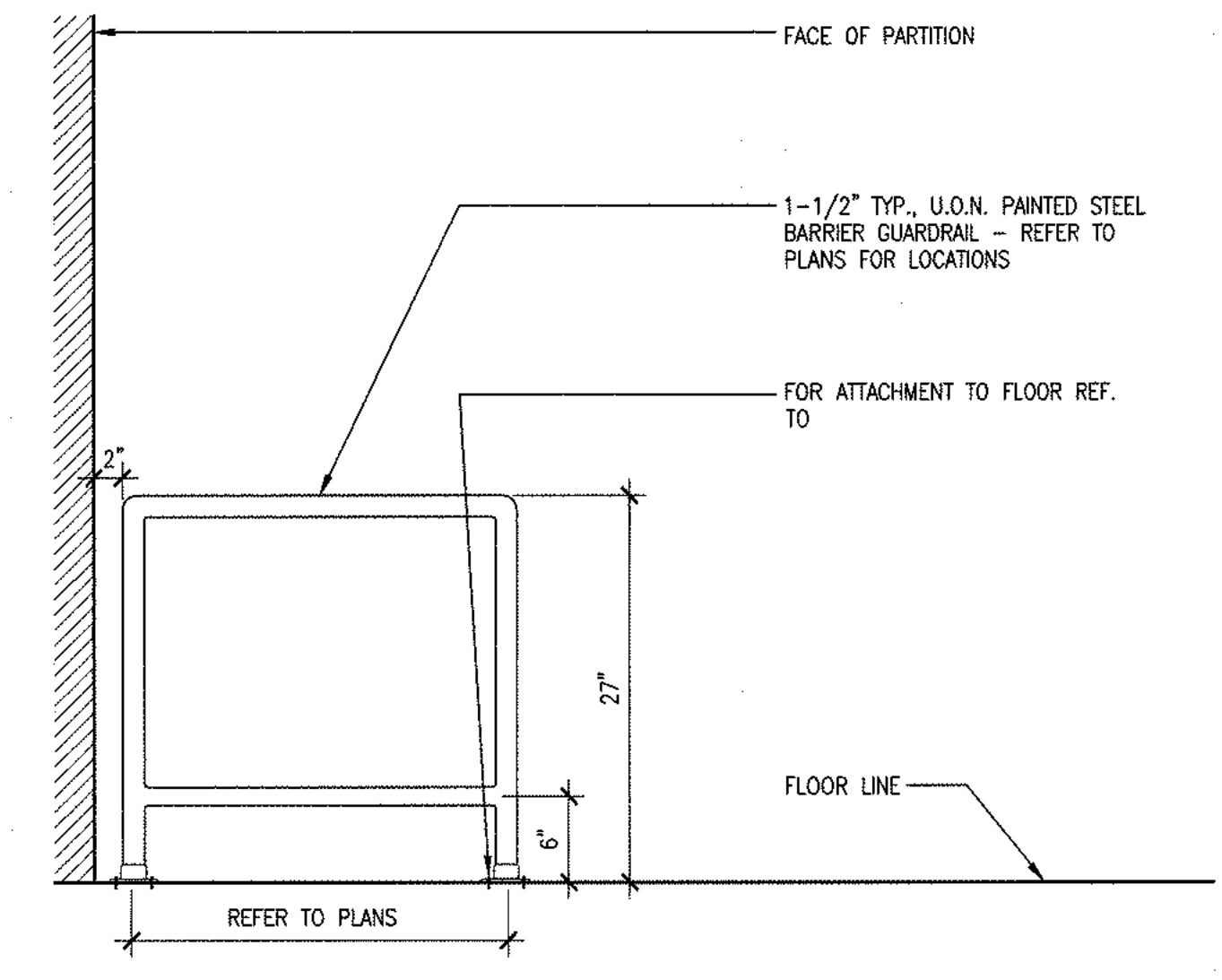


A. PLAN
3" = 1'-0"

STEEL GATE 2
USE COMMAND <FILESTAMP> TO ADD FILEPATH-NAME TEXT HERE (ERASE THIS TEXT FIRST) AS NOTED



STAIR - GUARDRAIL 5
1" = 1'-0"



DETECTABLE BARRIER ELEVATION 1
1" = 1'-0"

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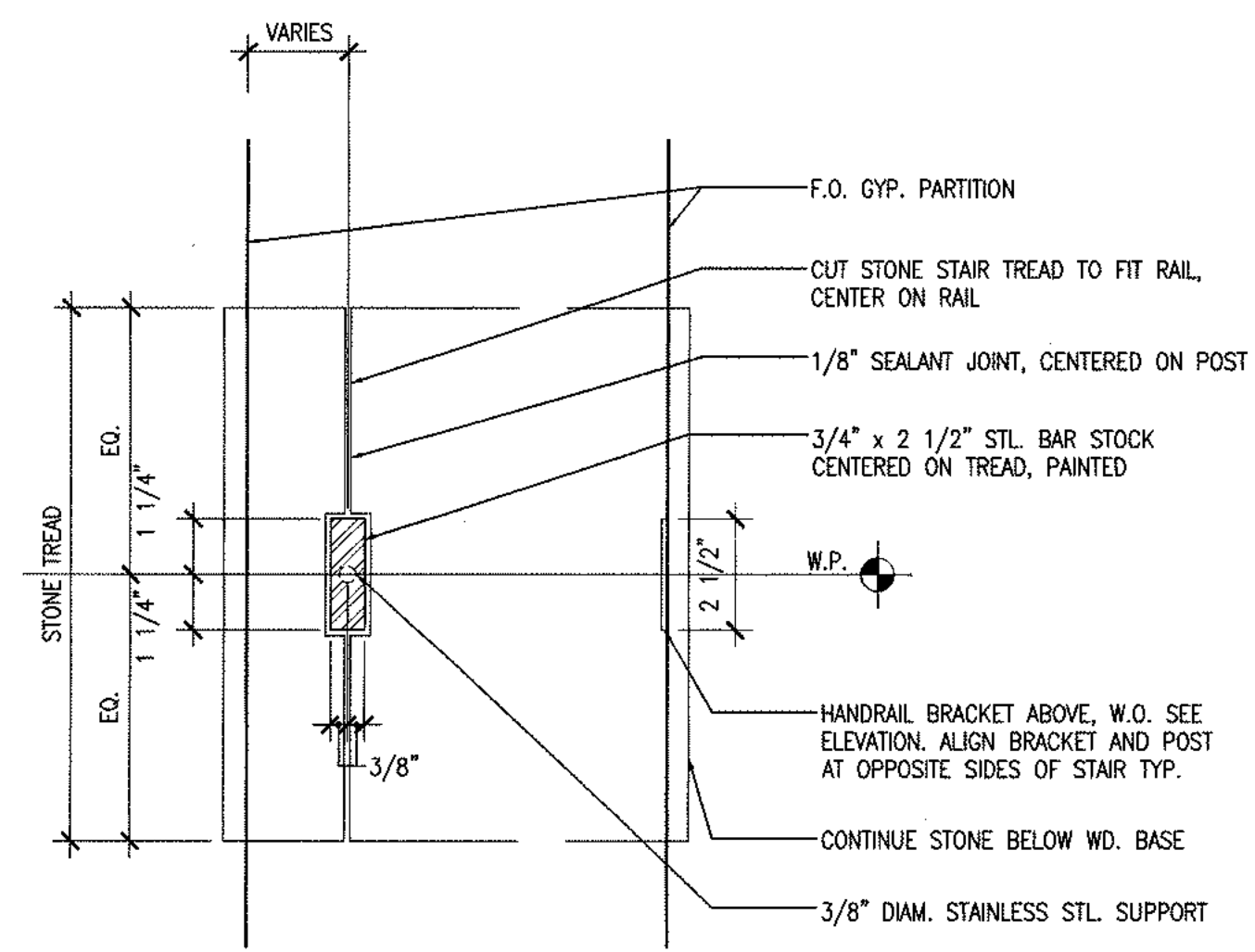
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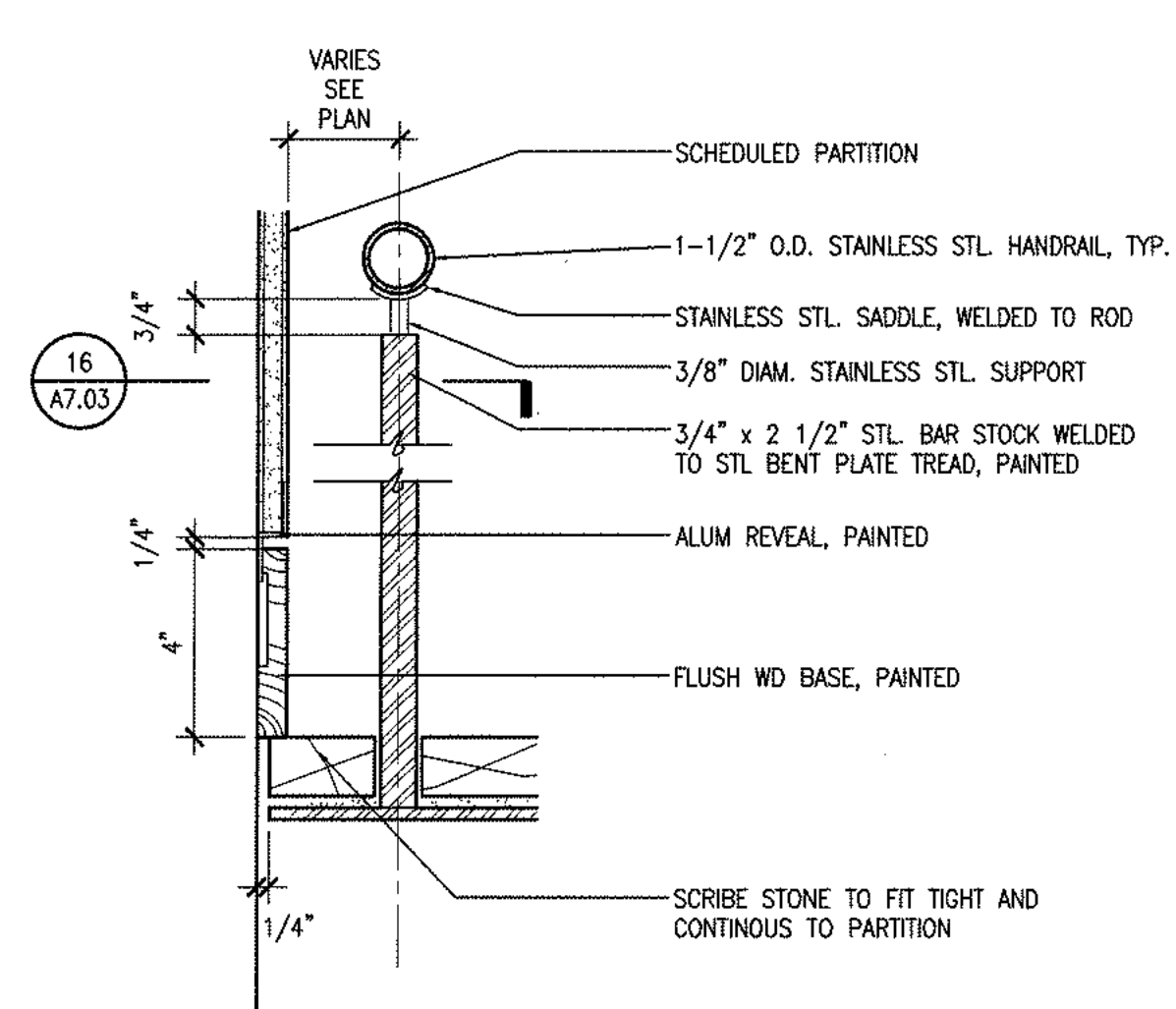
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DETAILS

scale AS NOTED date 2003.04.18
drawn by DDH project number 20114.00
sheet number

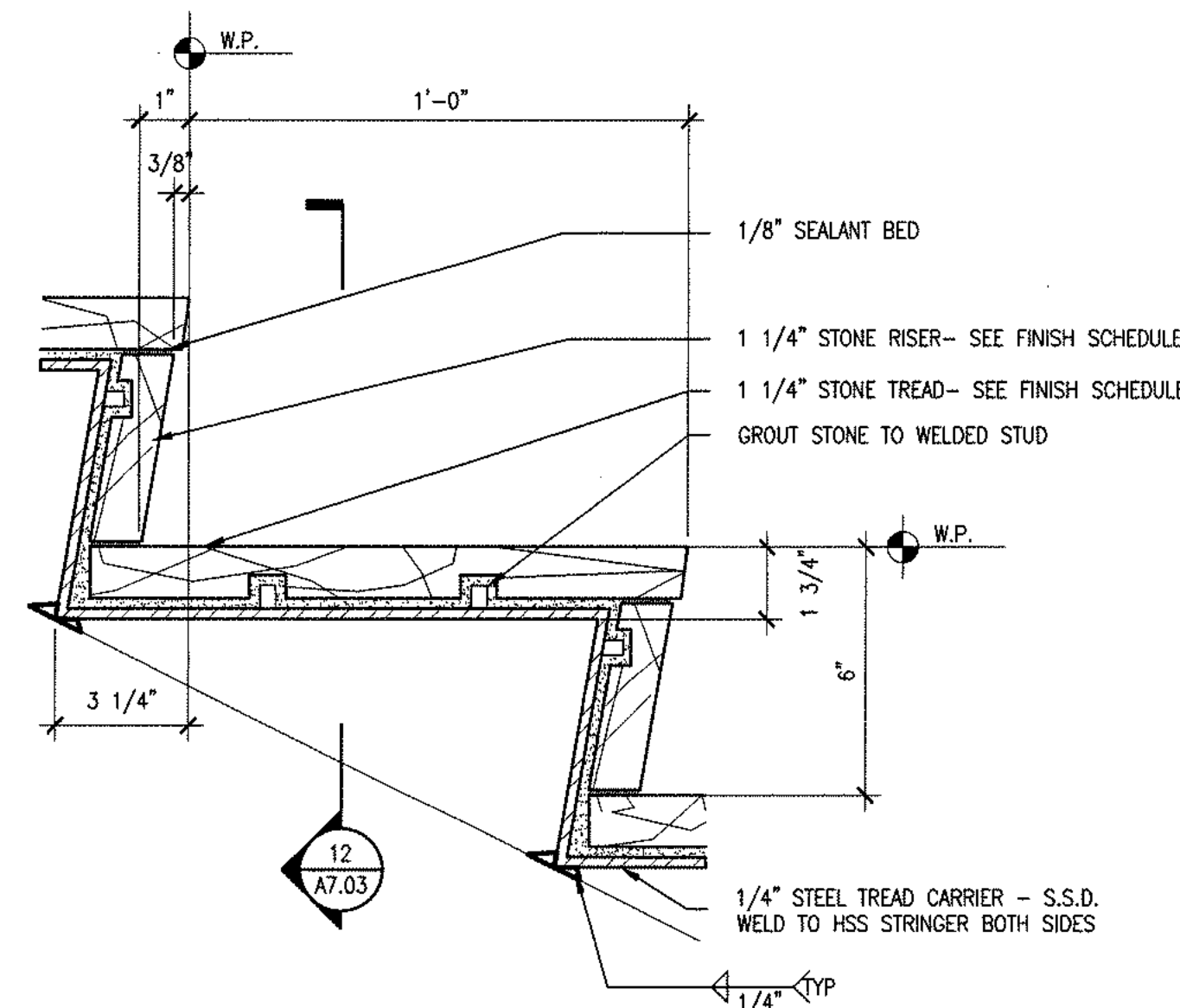
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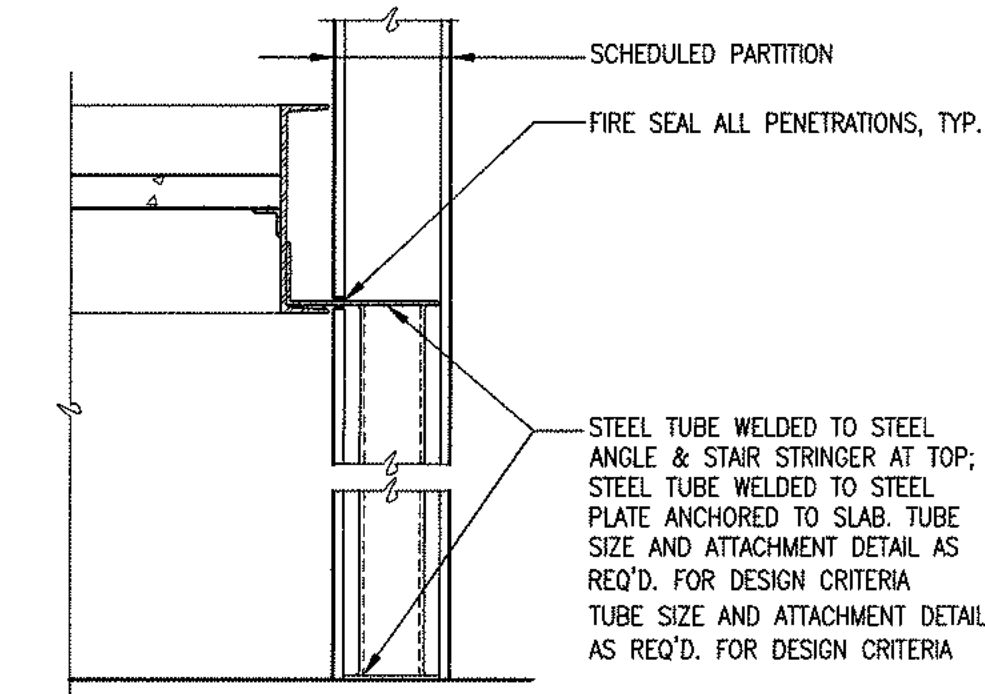
20 POST AND TREAD 12
3" = 1'-0"



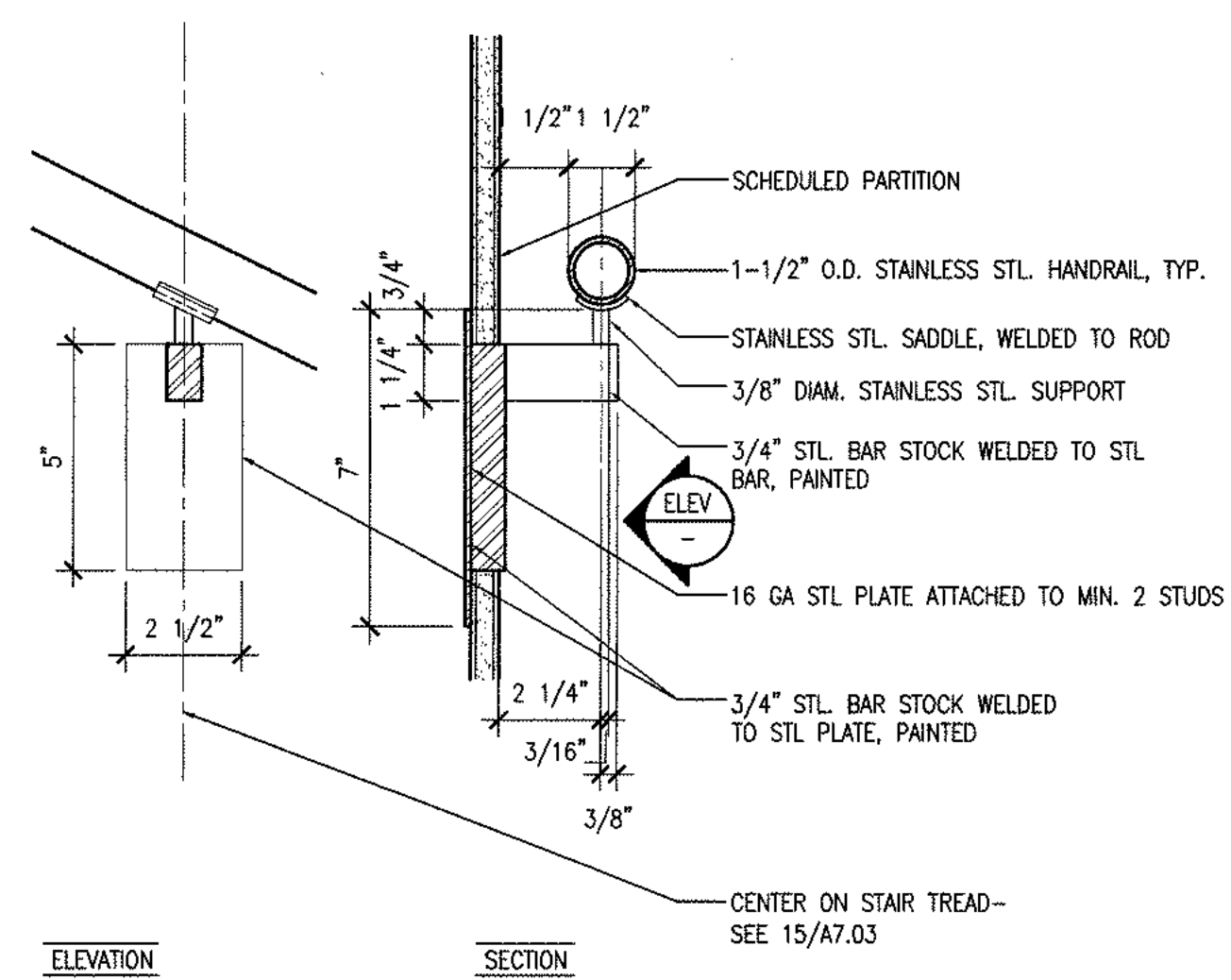
12 RAIL 12
3" = 1'-0"



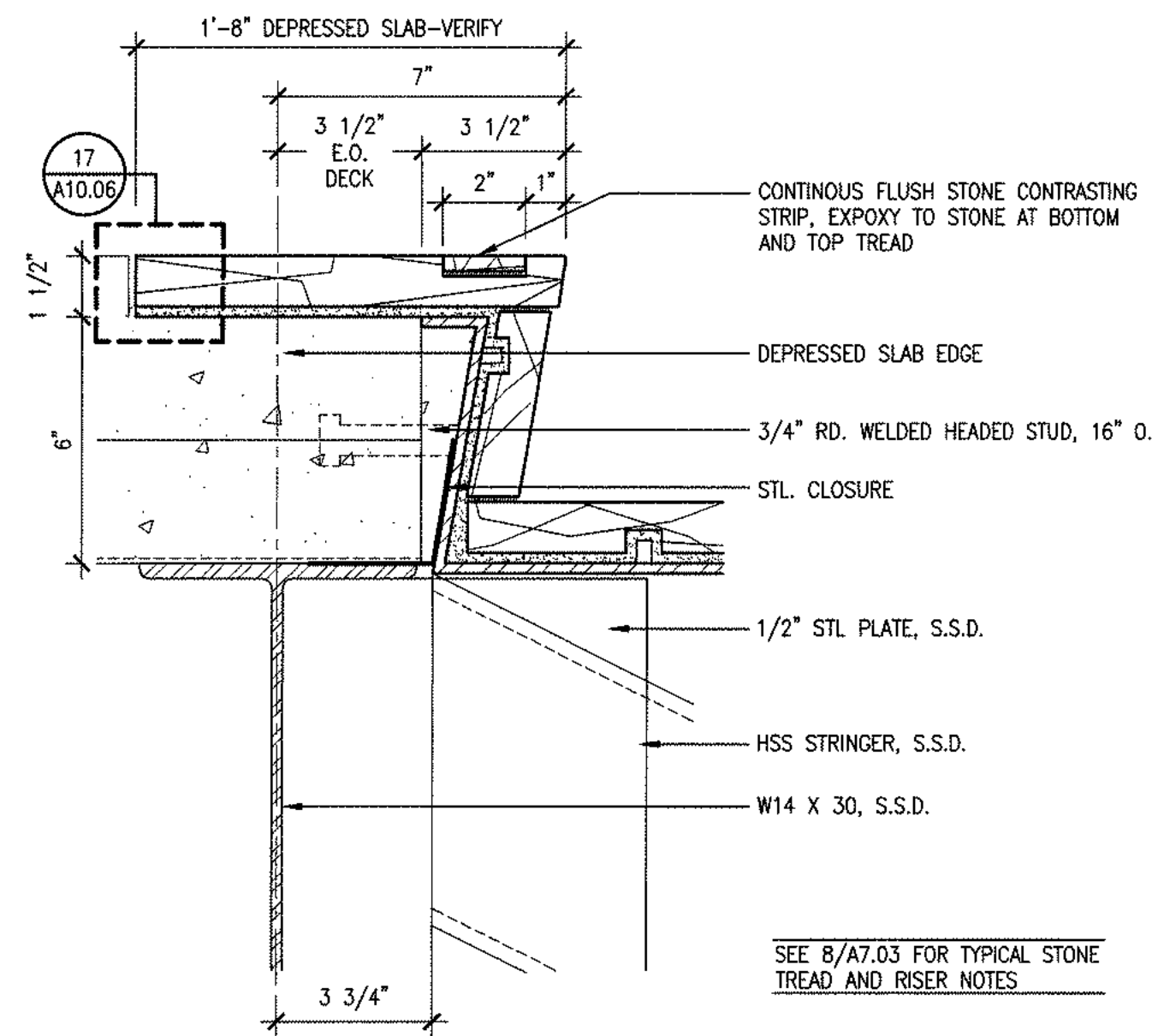
8 STONE TREAD AND RISER 8
3" = 1'-0"



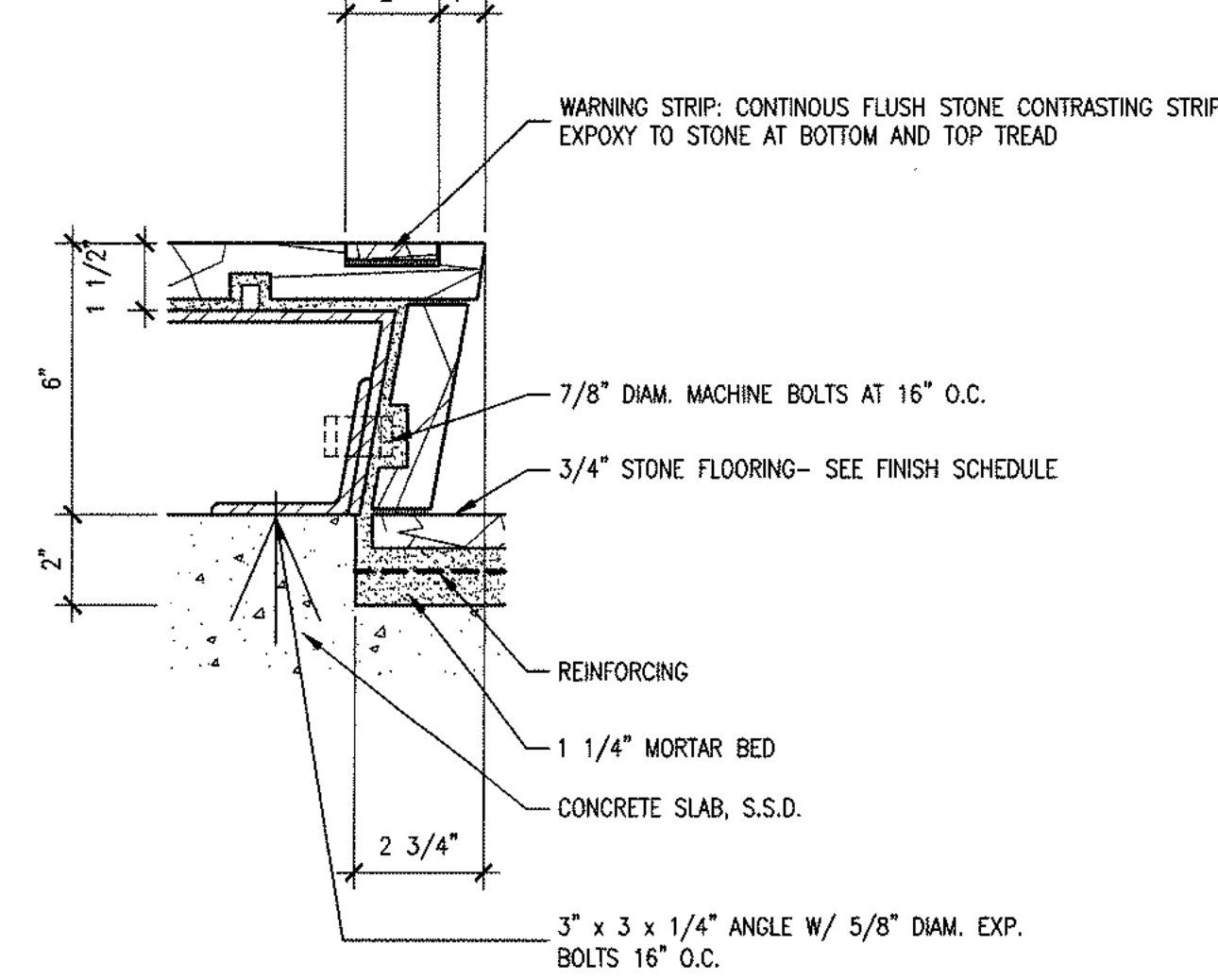
4 STAIR LANDING SUPPORT 4
1" = 1'-0"



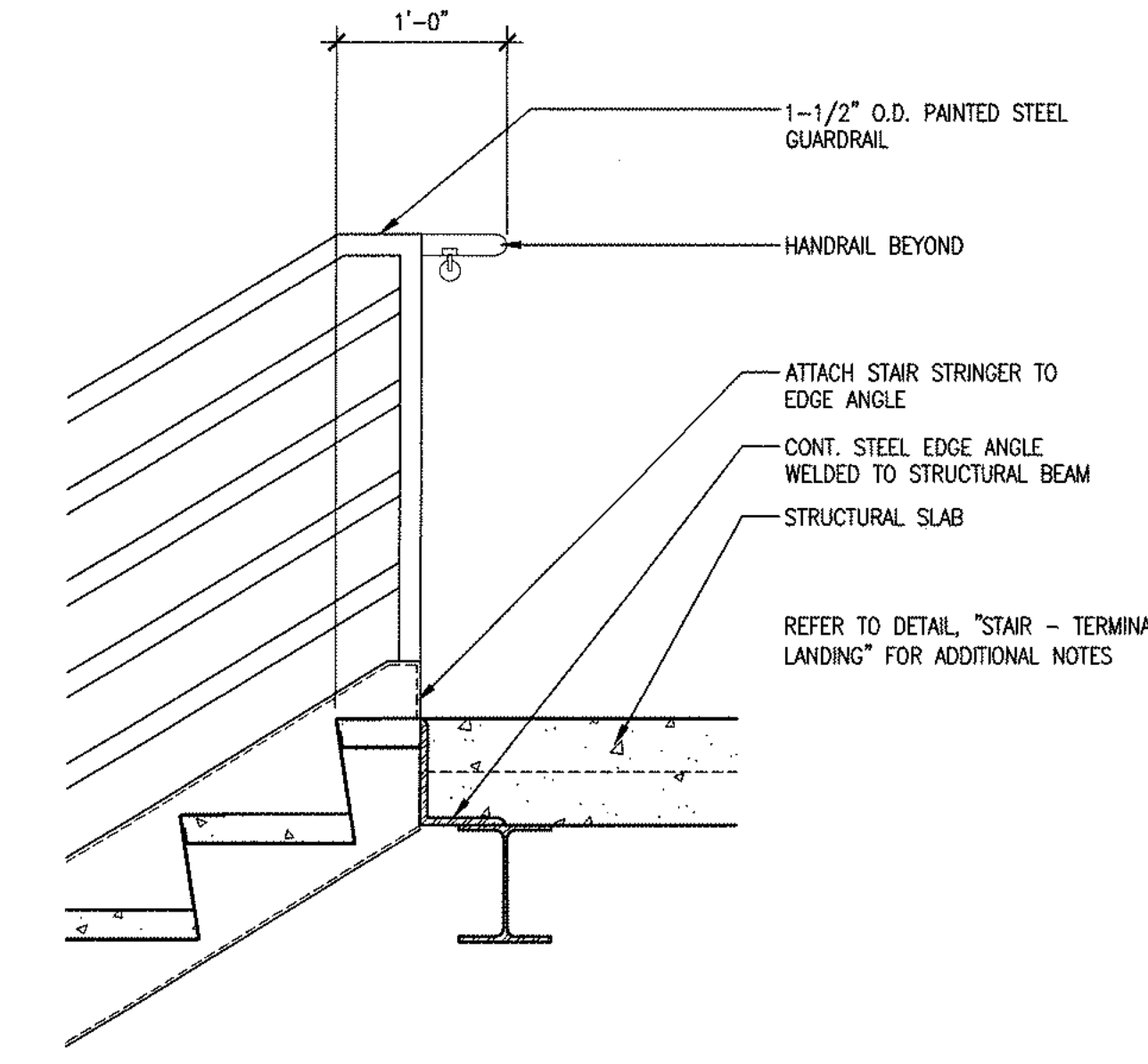
15 STAIR 1 HANDRAIL SECTION 15
3" = 1'-0"



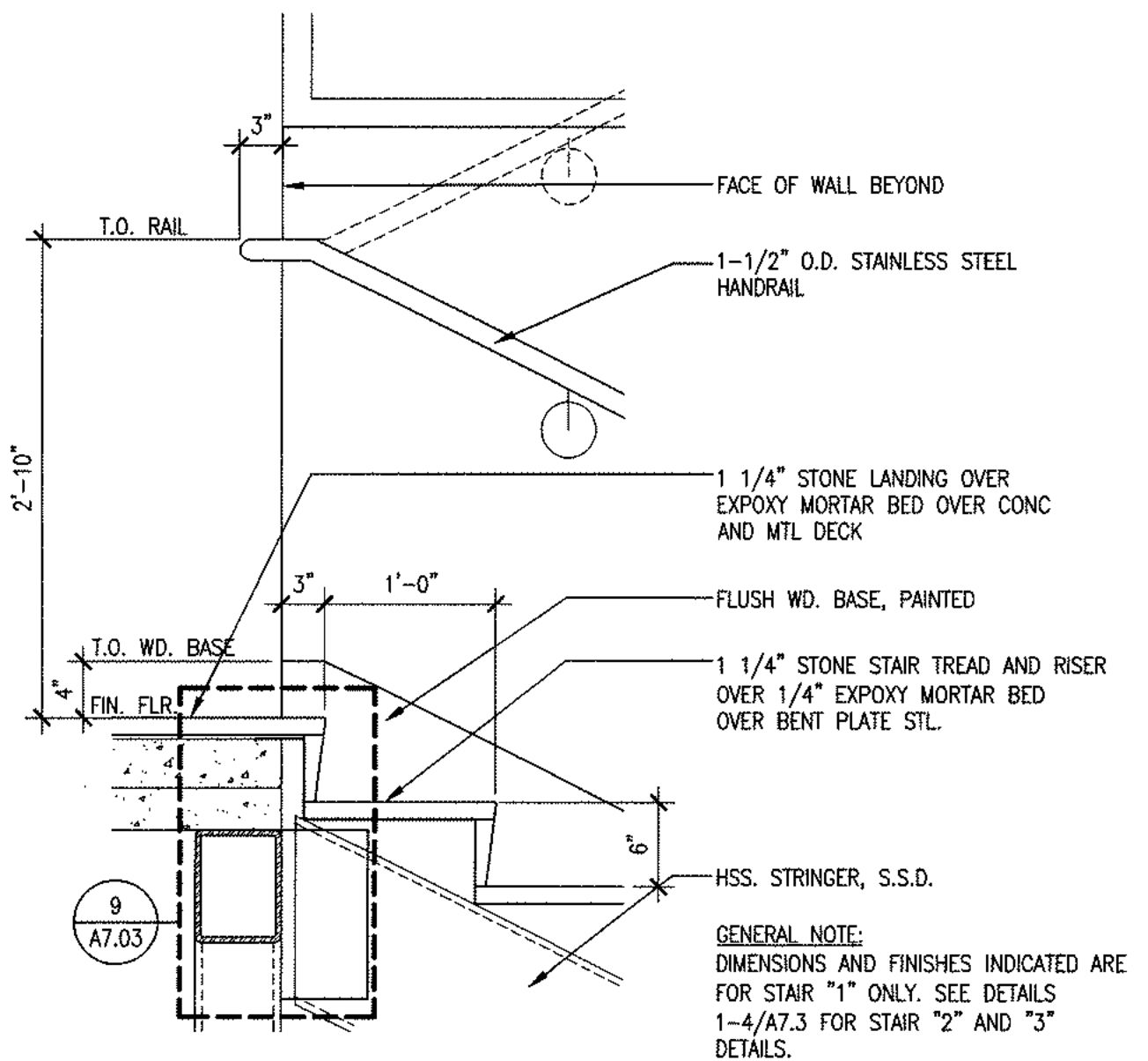
11 STAIR AT SECOND FLR. LANDING 11
3" = 1'-0"



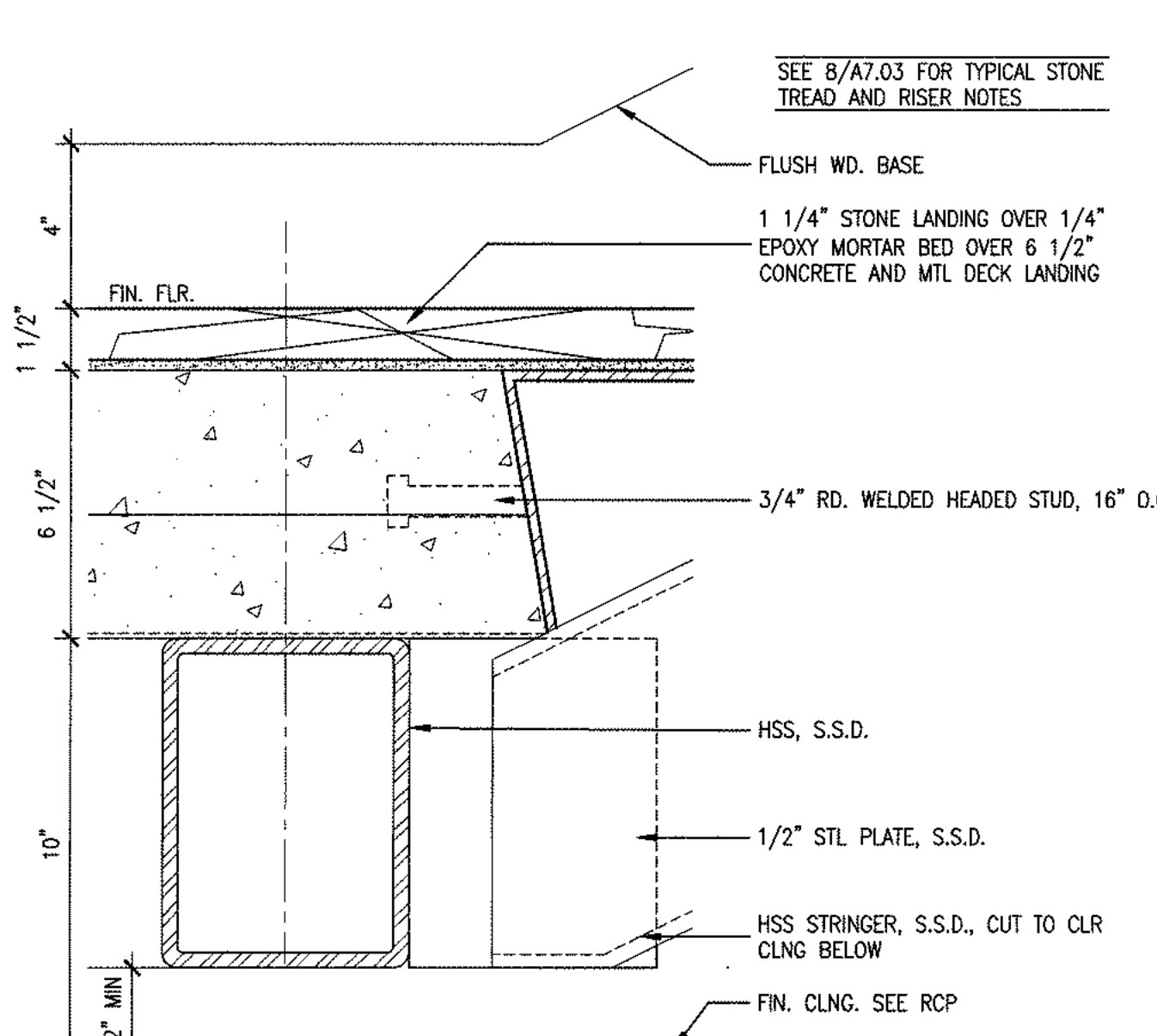
7 STONE RISER AT EDGE OF SLAB 7
3" = 1'-0"



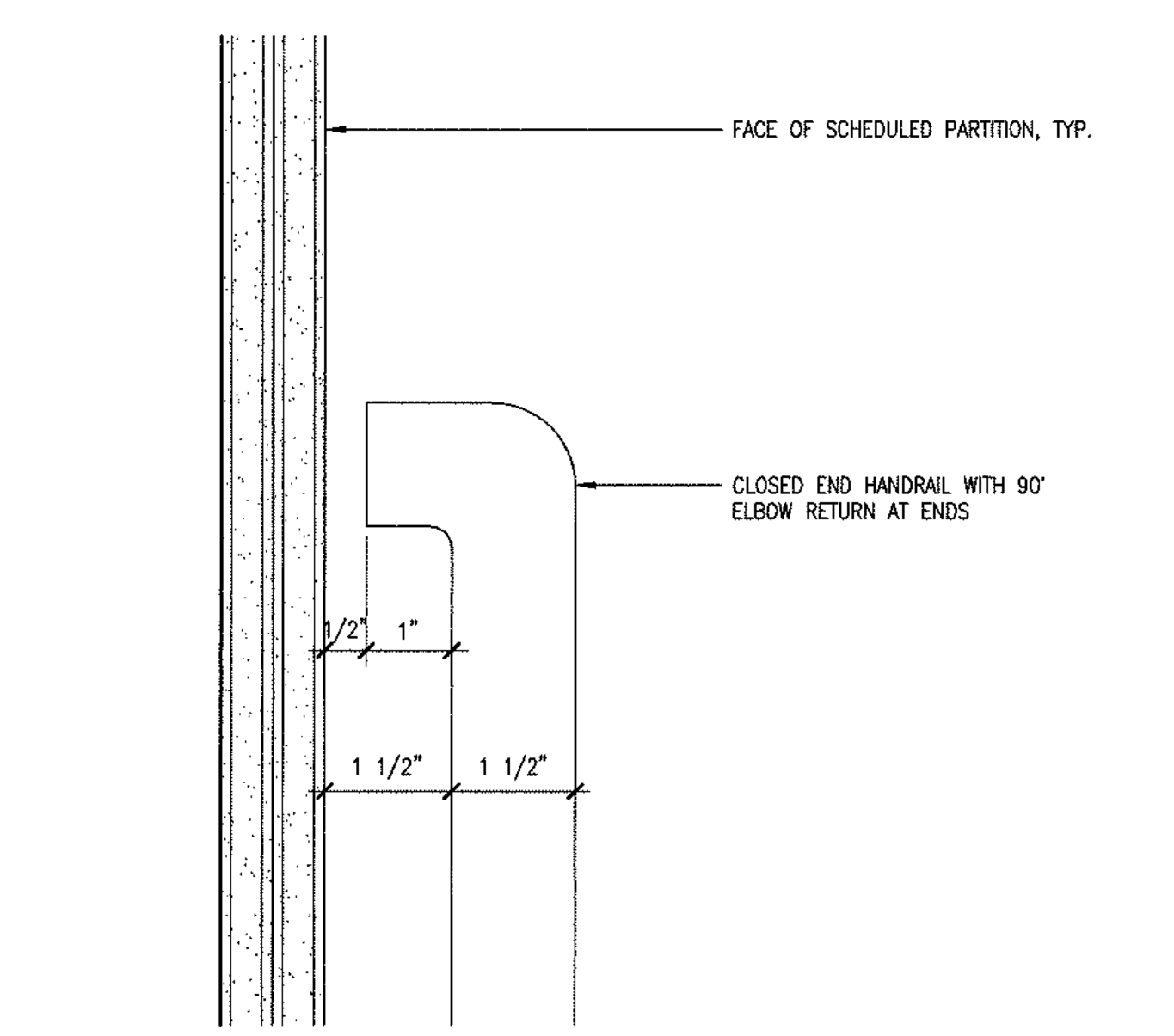
3 STAIR - TERMINAL LANDING, TOP 3
1" = 1'-0"



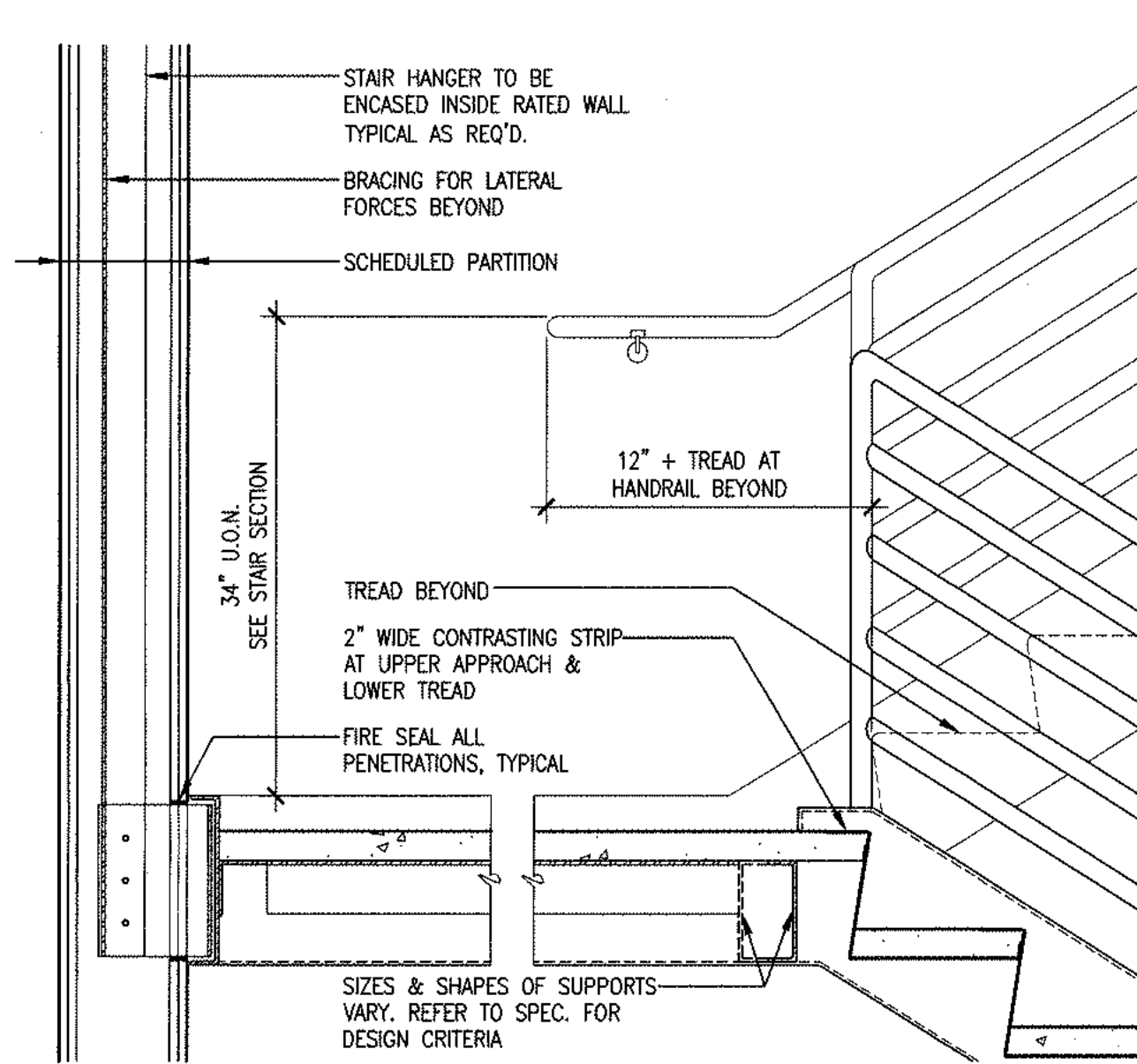
14 STAIR 1 - INTERMEDIATE LANDING 14
1" = 1'-0"



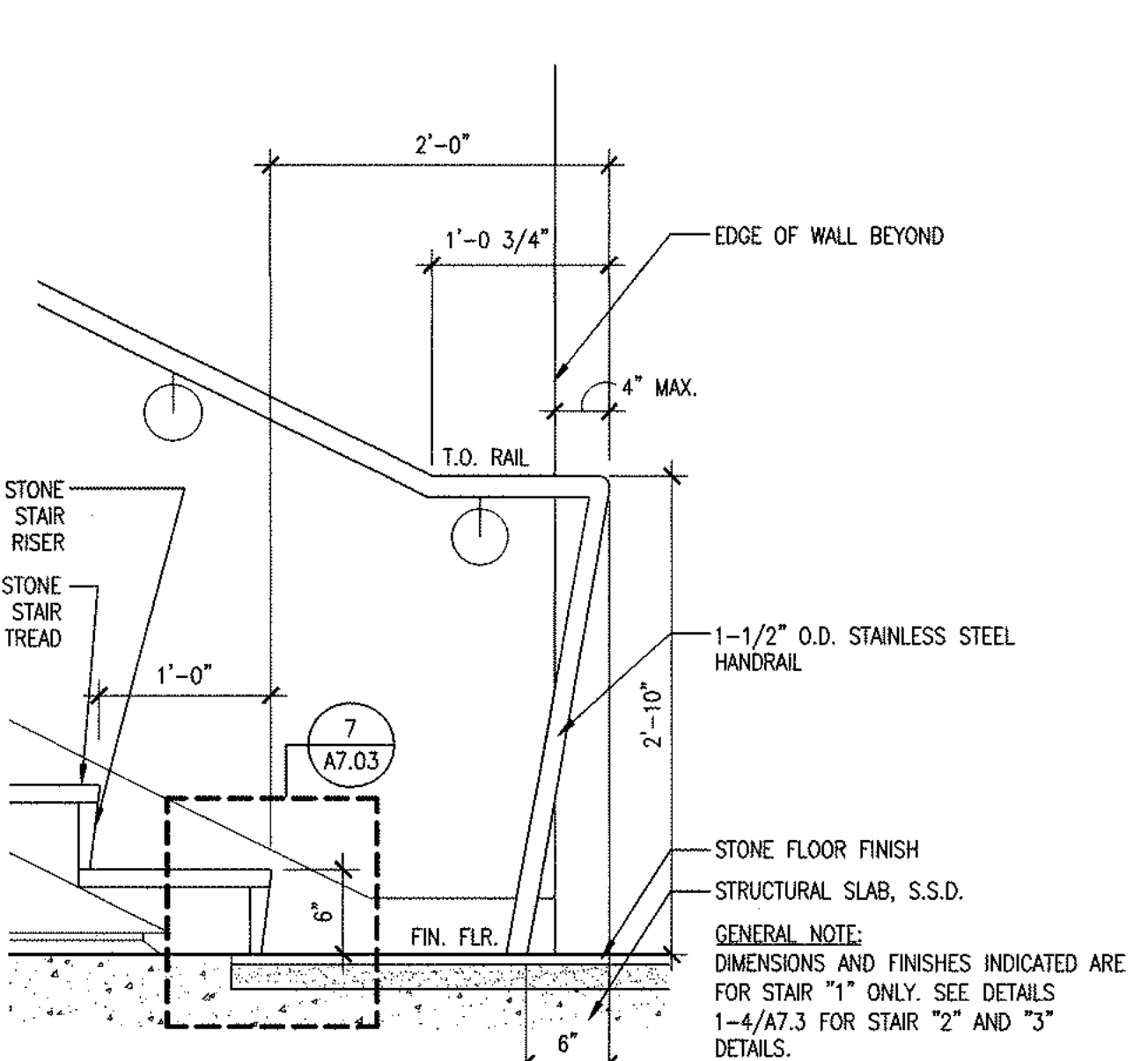
10 STONE AT INTERMEDIATE LANDING 10
3" = 1'-0"



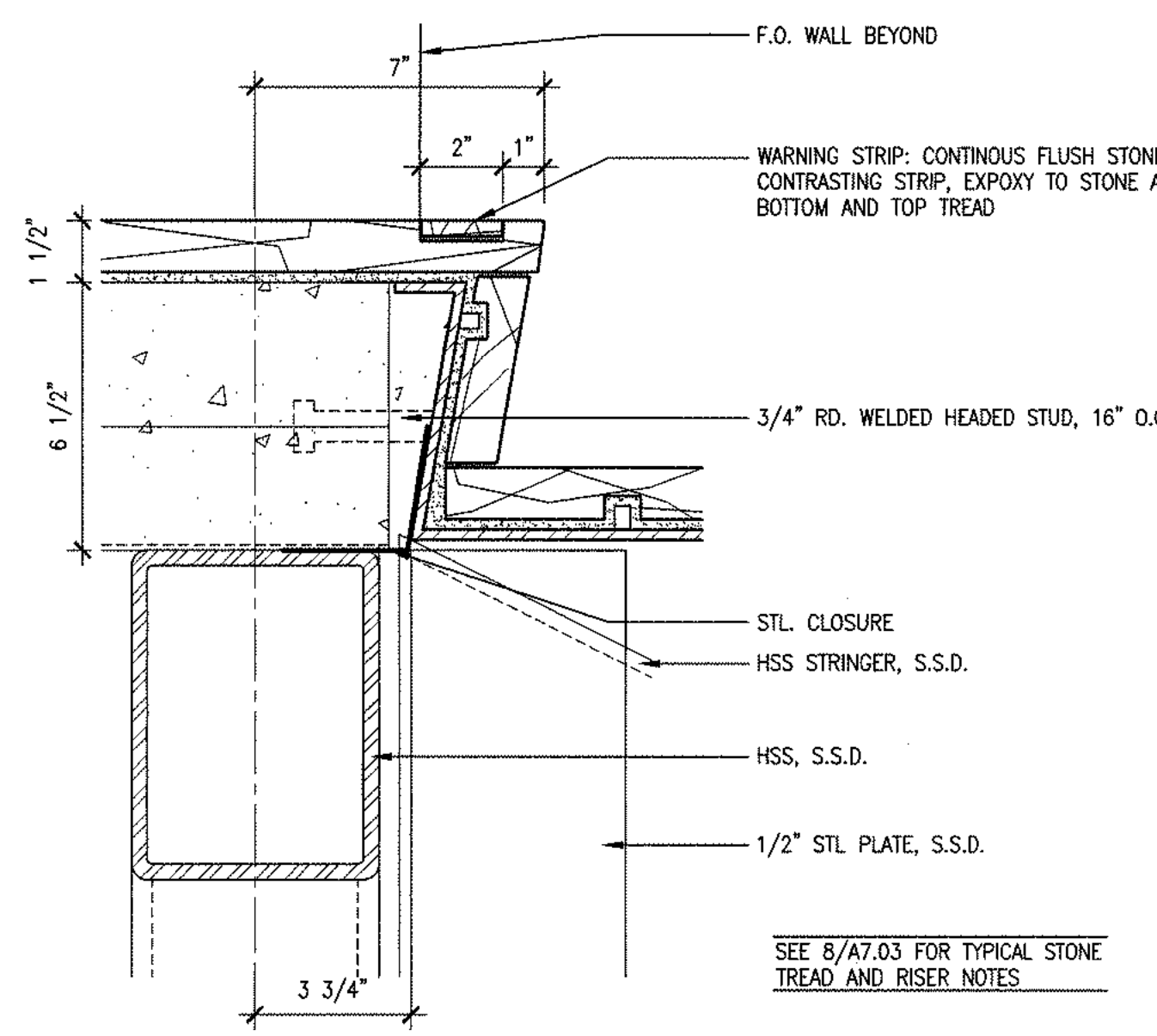
6 HANDRAIL DETAIL PLAN 6
6" = 1'-0"



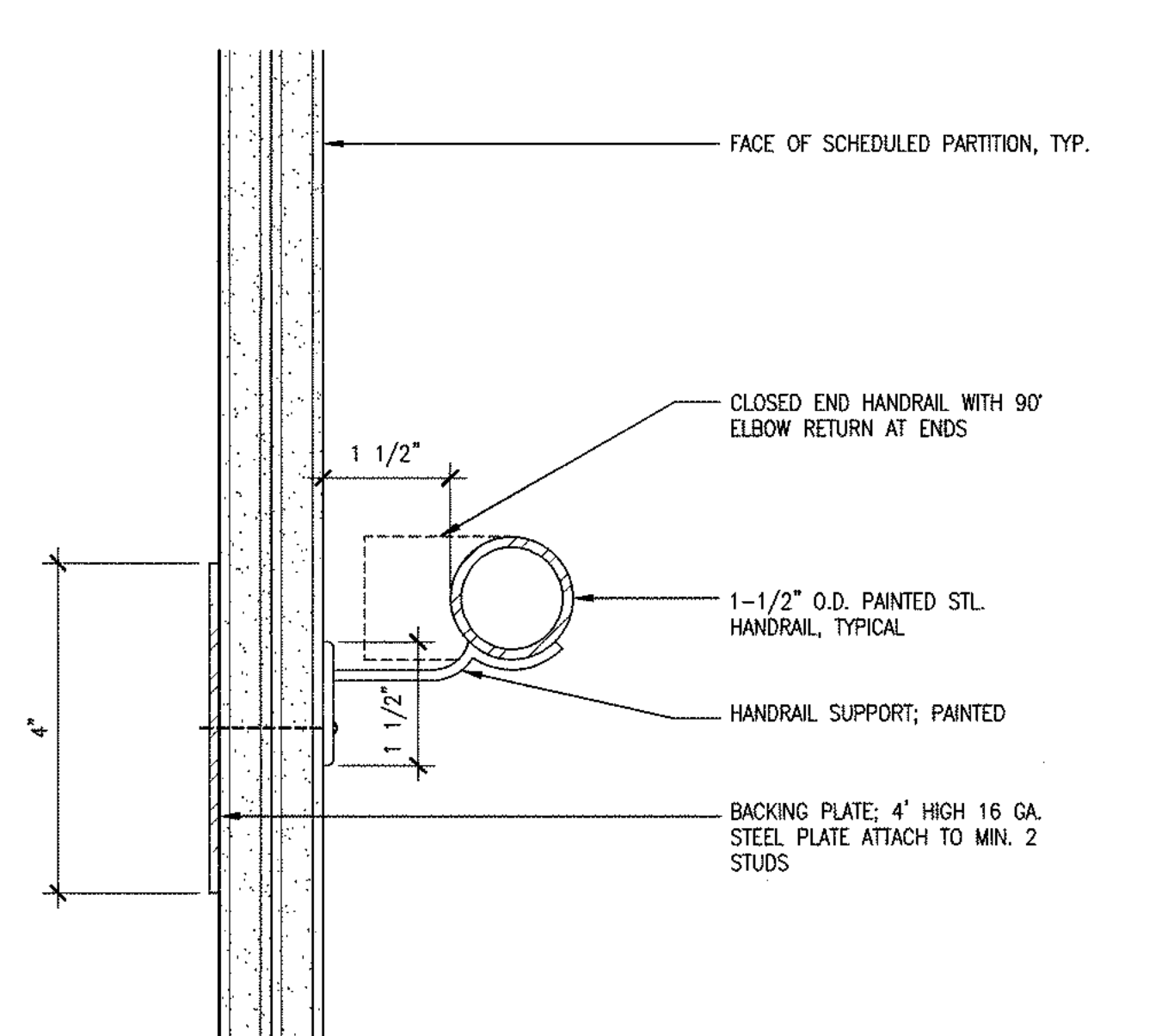
2 STAIR - INTERMEDIATE LANDING DETAIL 2
1" = 1'-0"



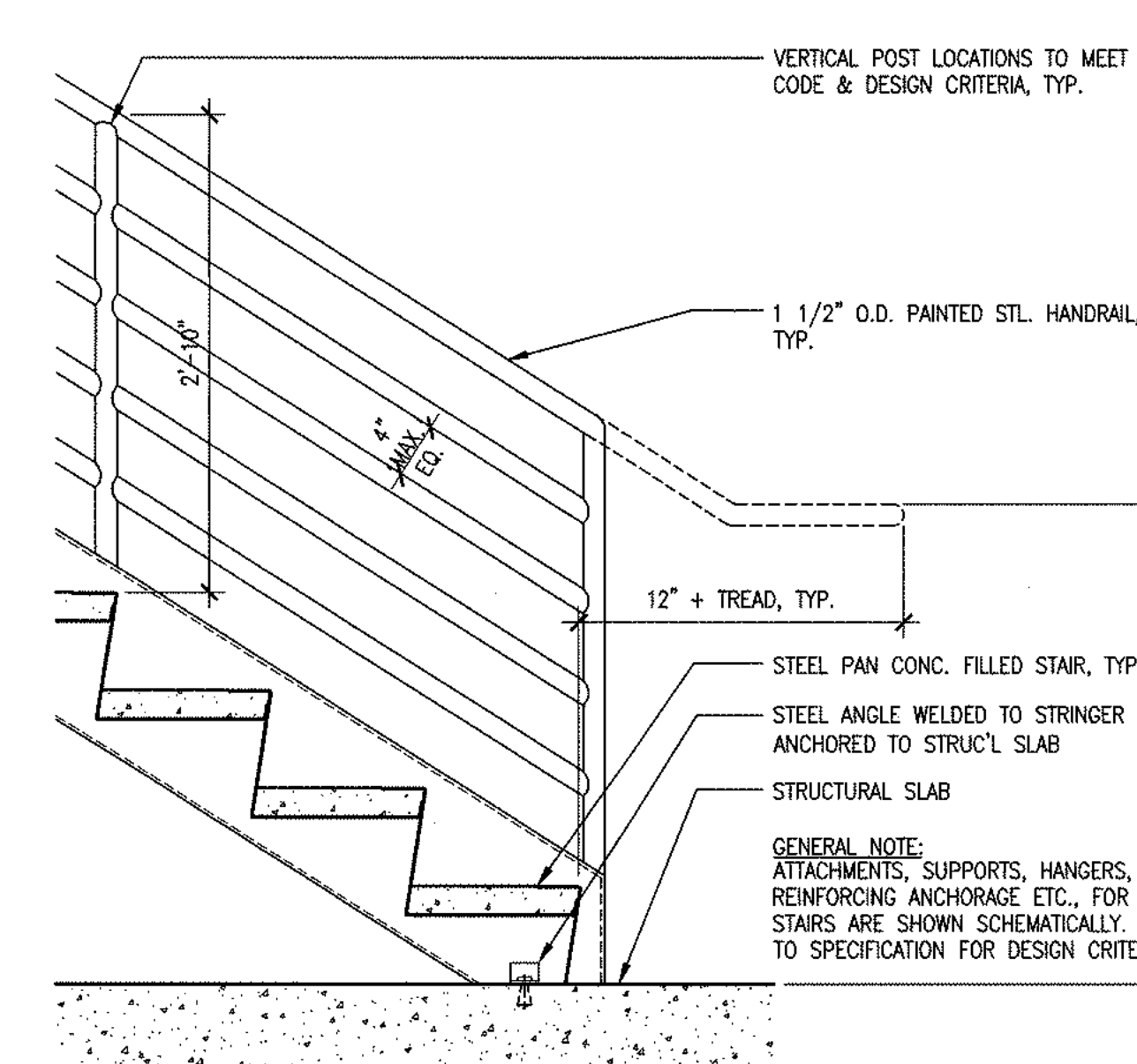
13 STAIR 1 - LANDING 13
1" = 1'-0"



9 STONE AT INTERMEDIATE LANDING 9
3" = 1'-0"



5 HANDRAIL DETAIL SECTION 5
6" = 1'-0"



1 STAIR - TERMINAL LANDING 1
1" = 1'-0"

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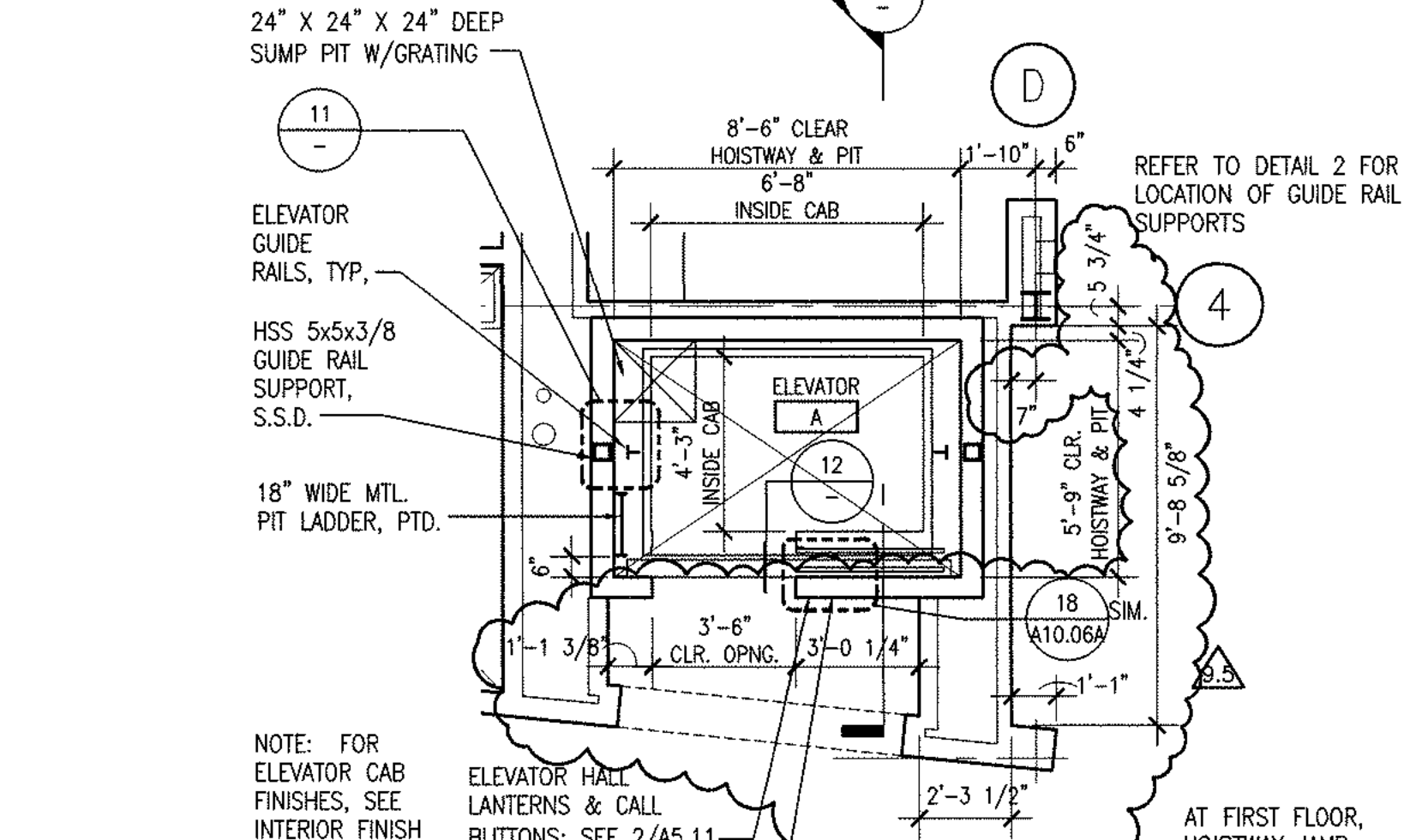
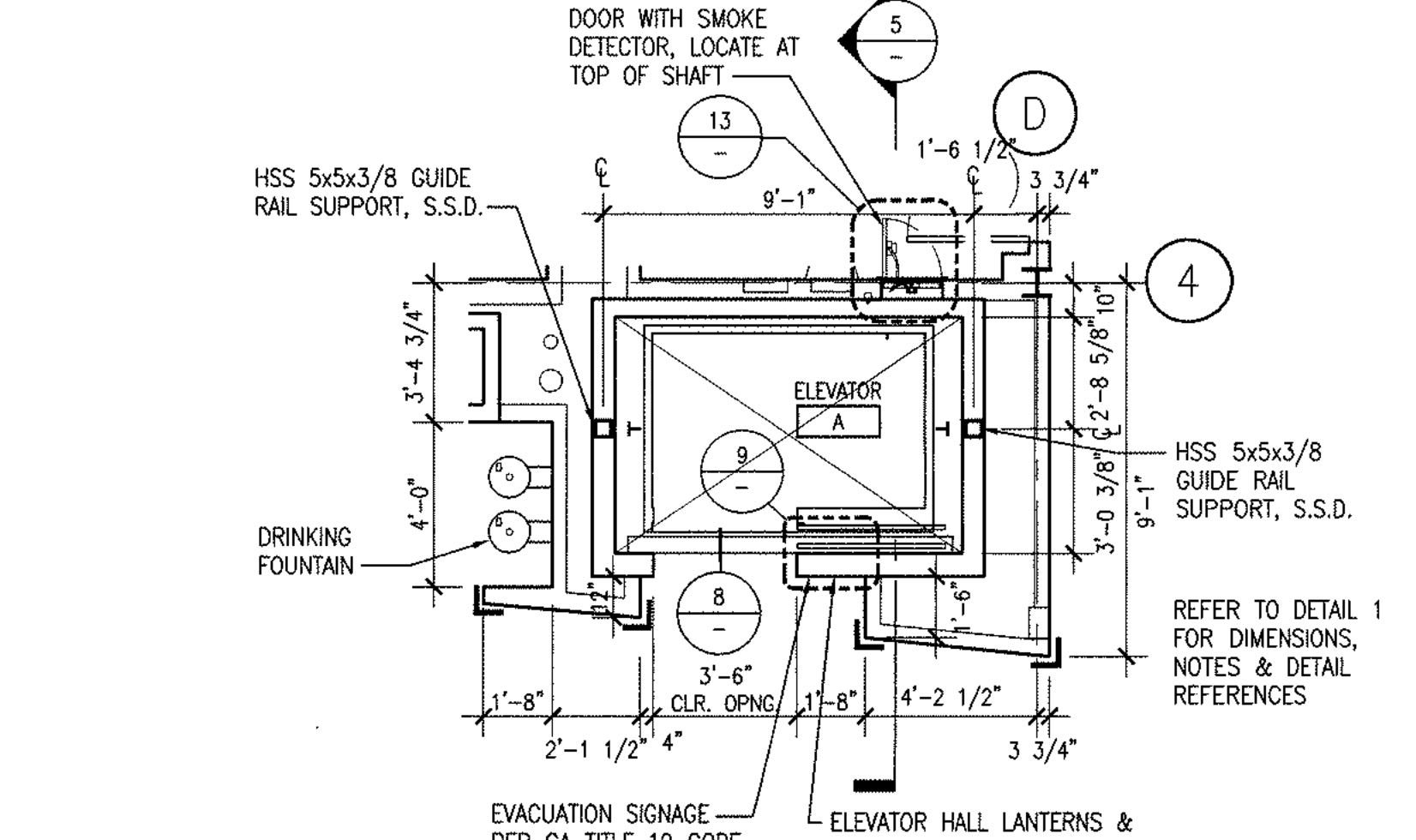
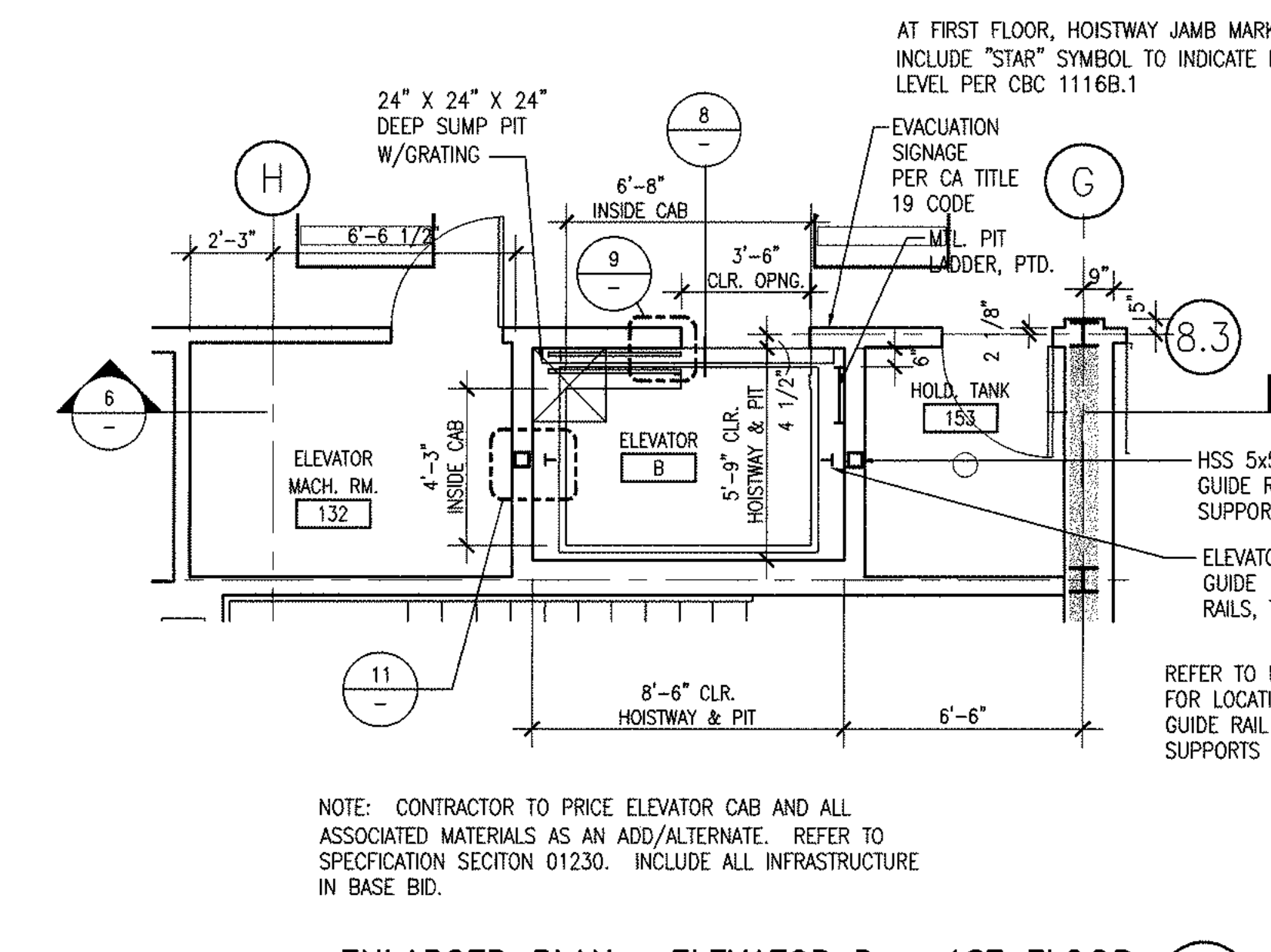
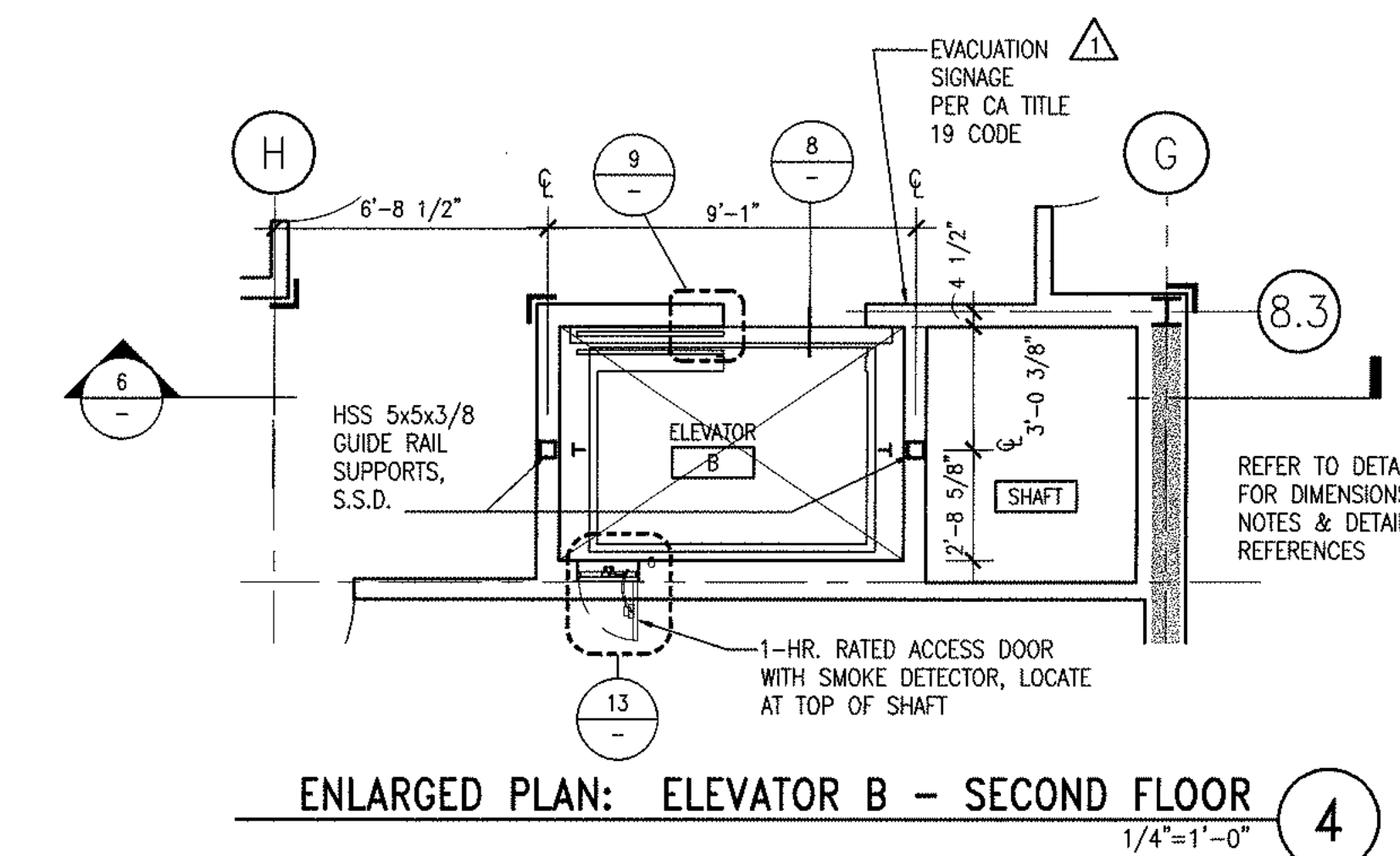
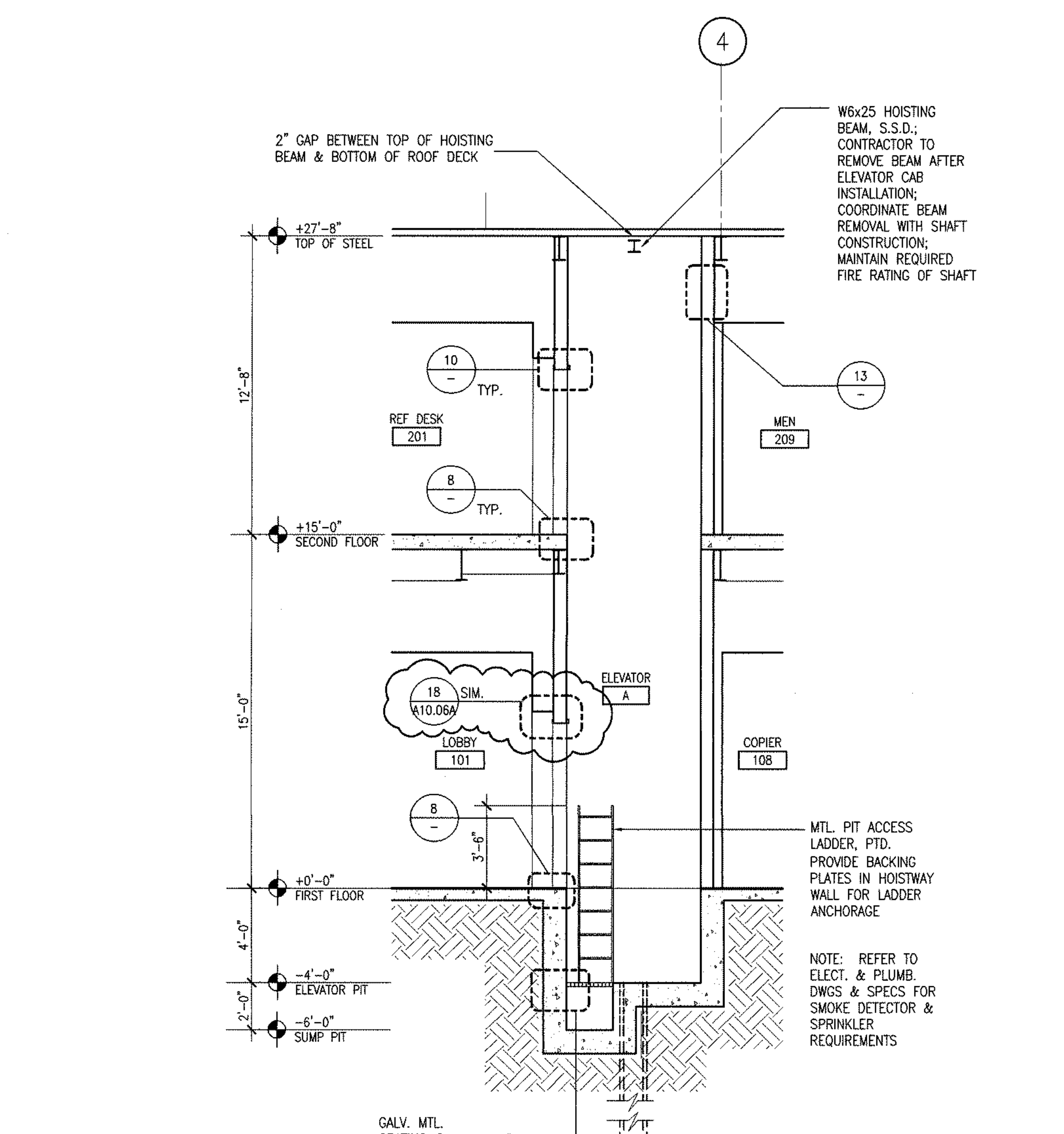
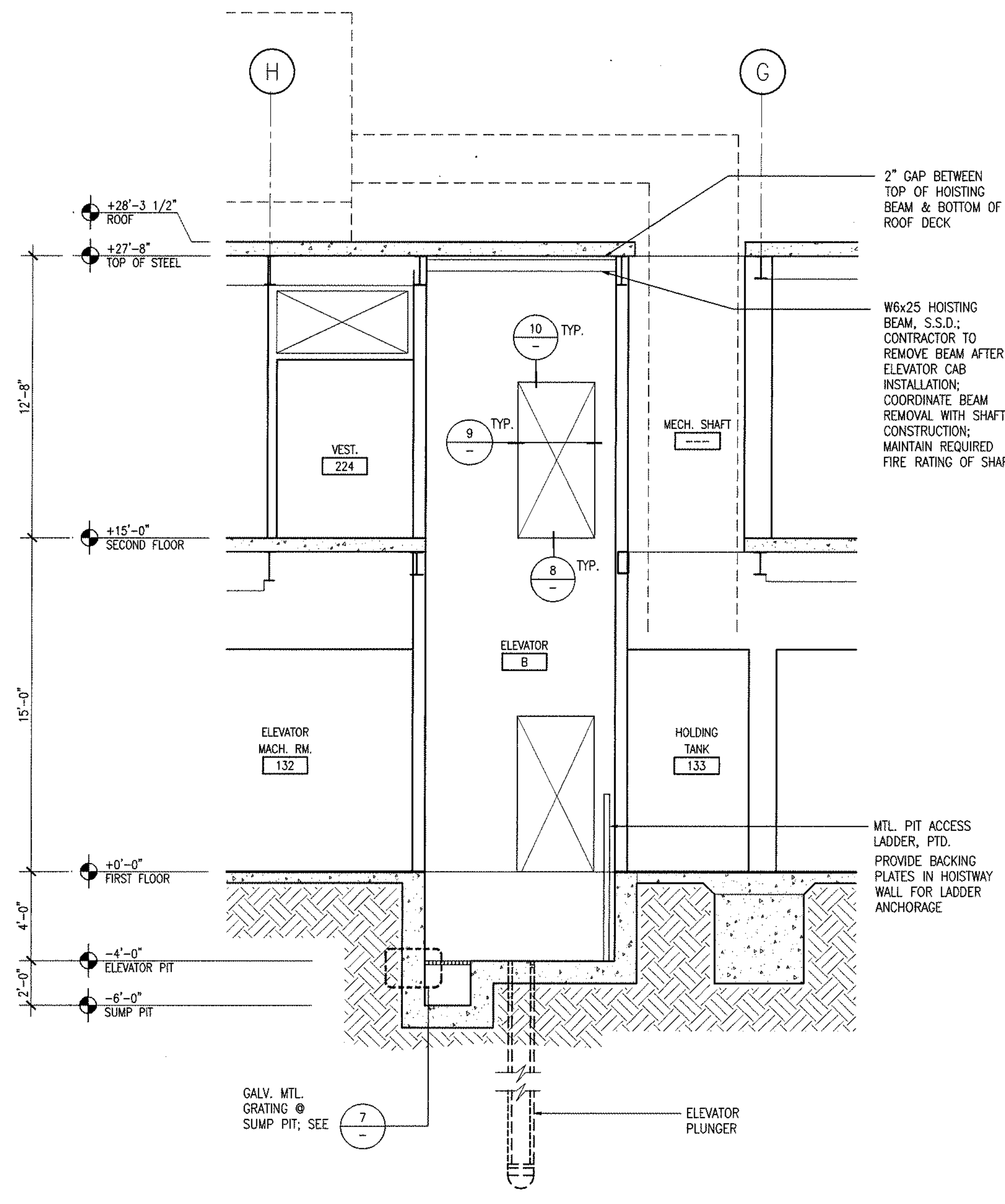
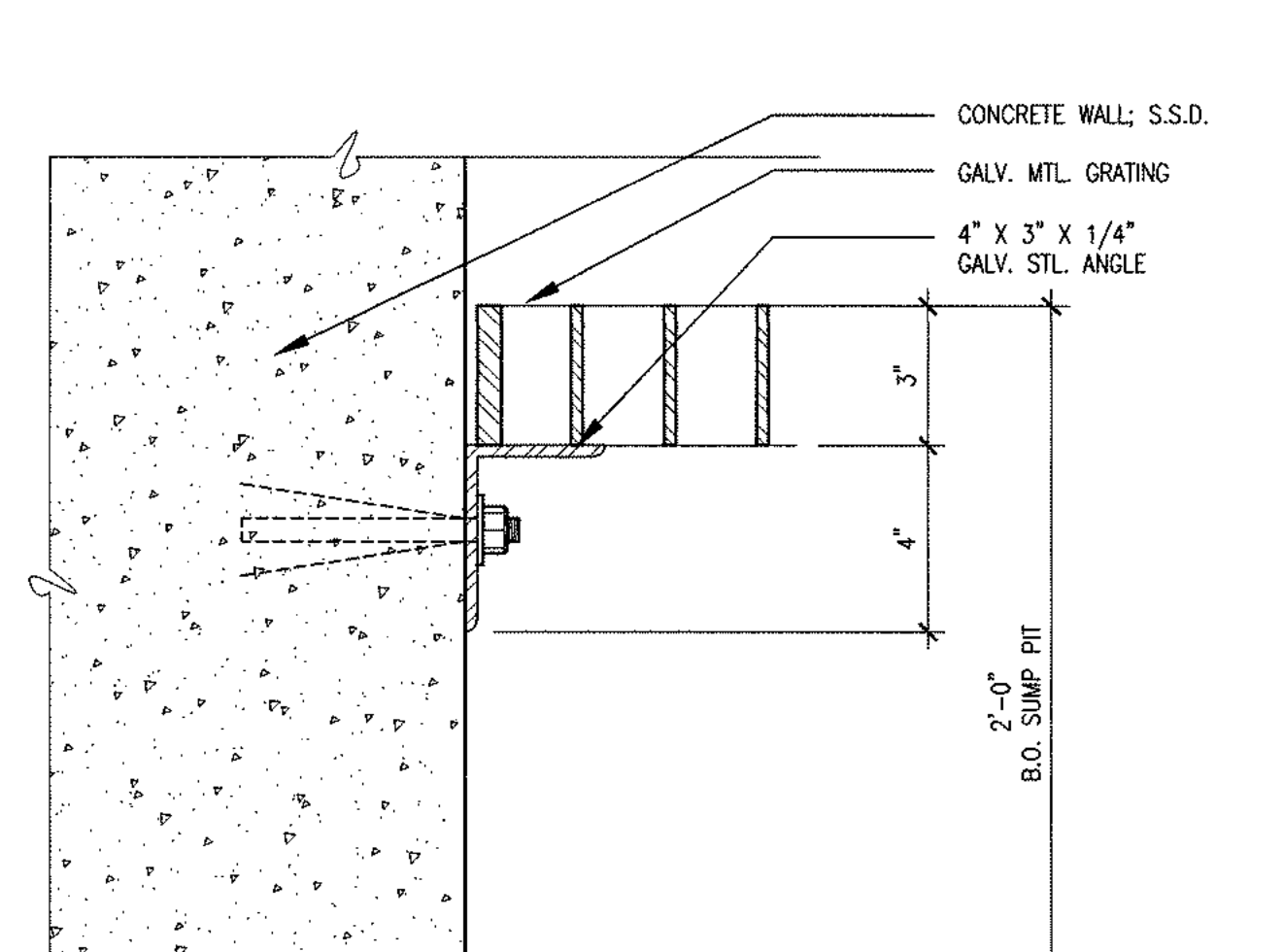
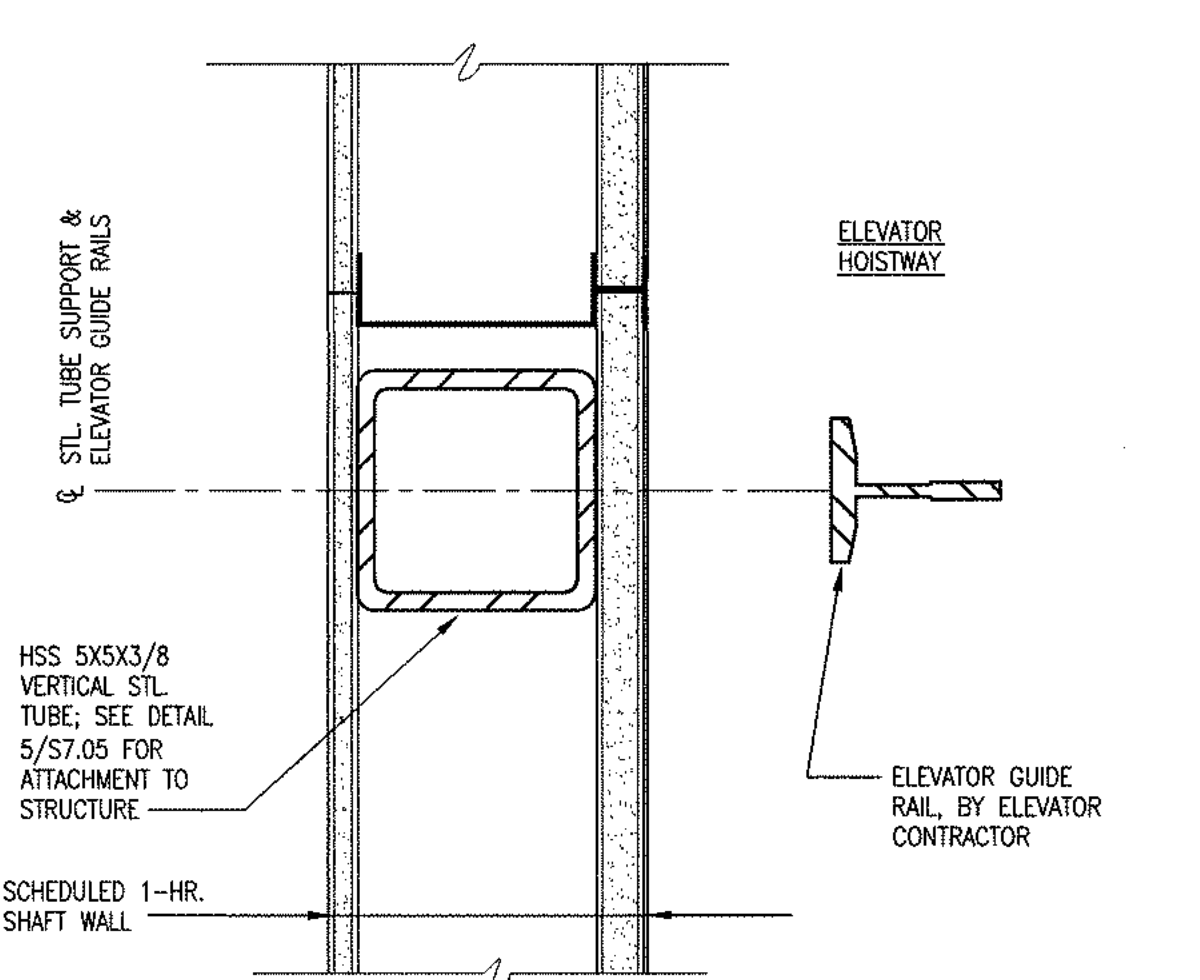
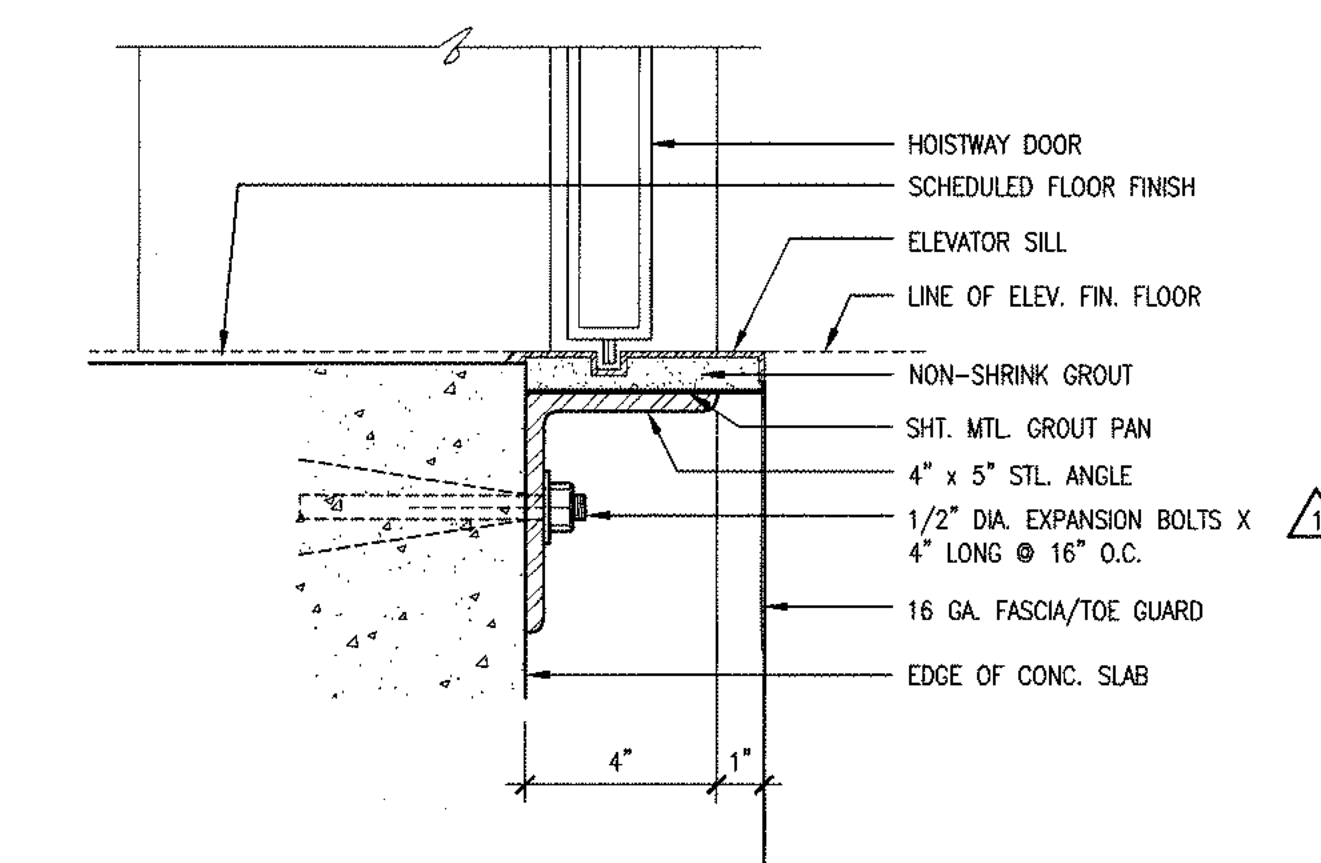
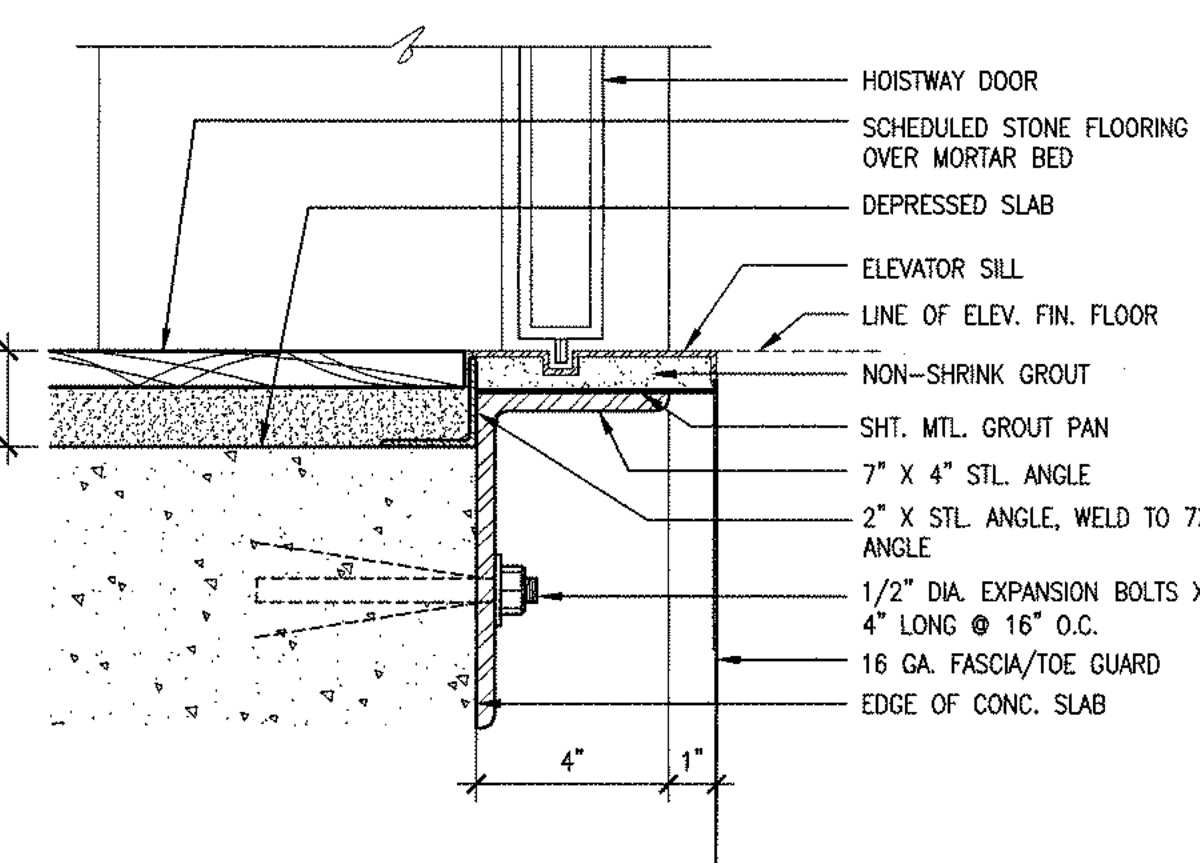
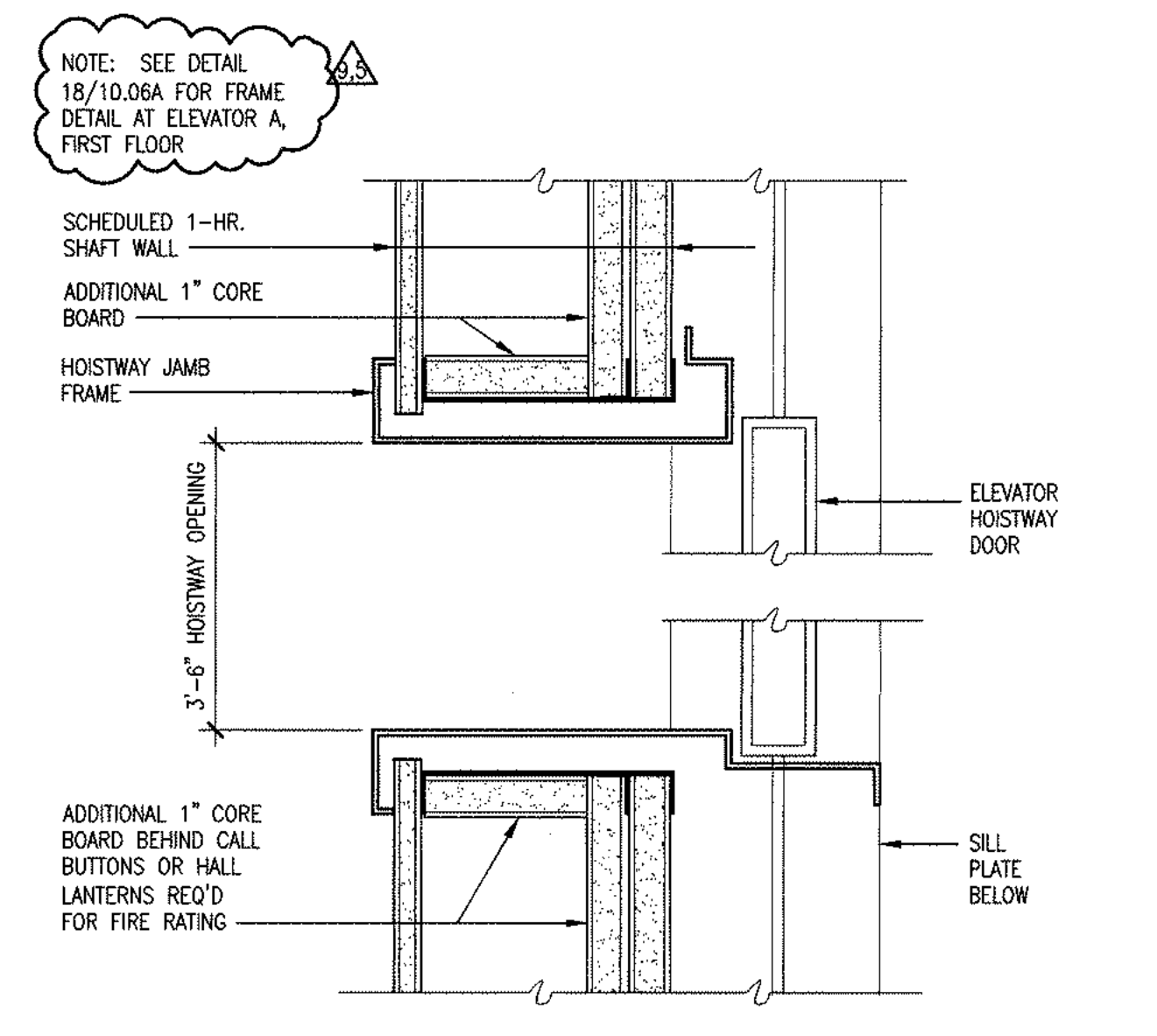
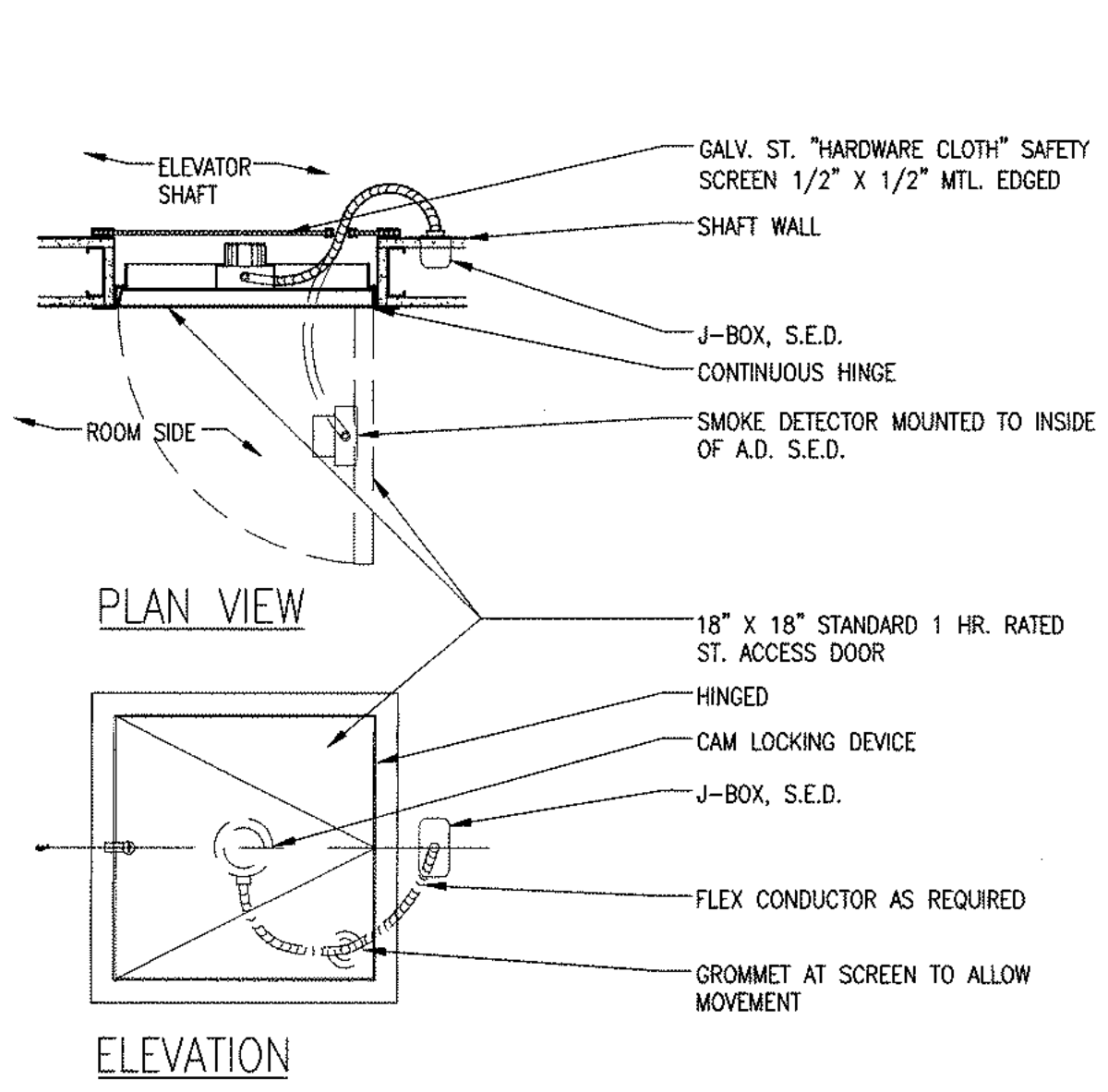
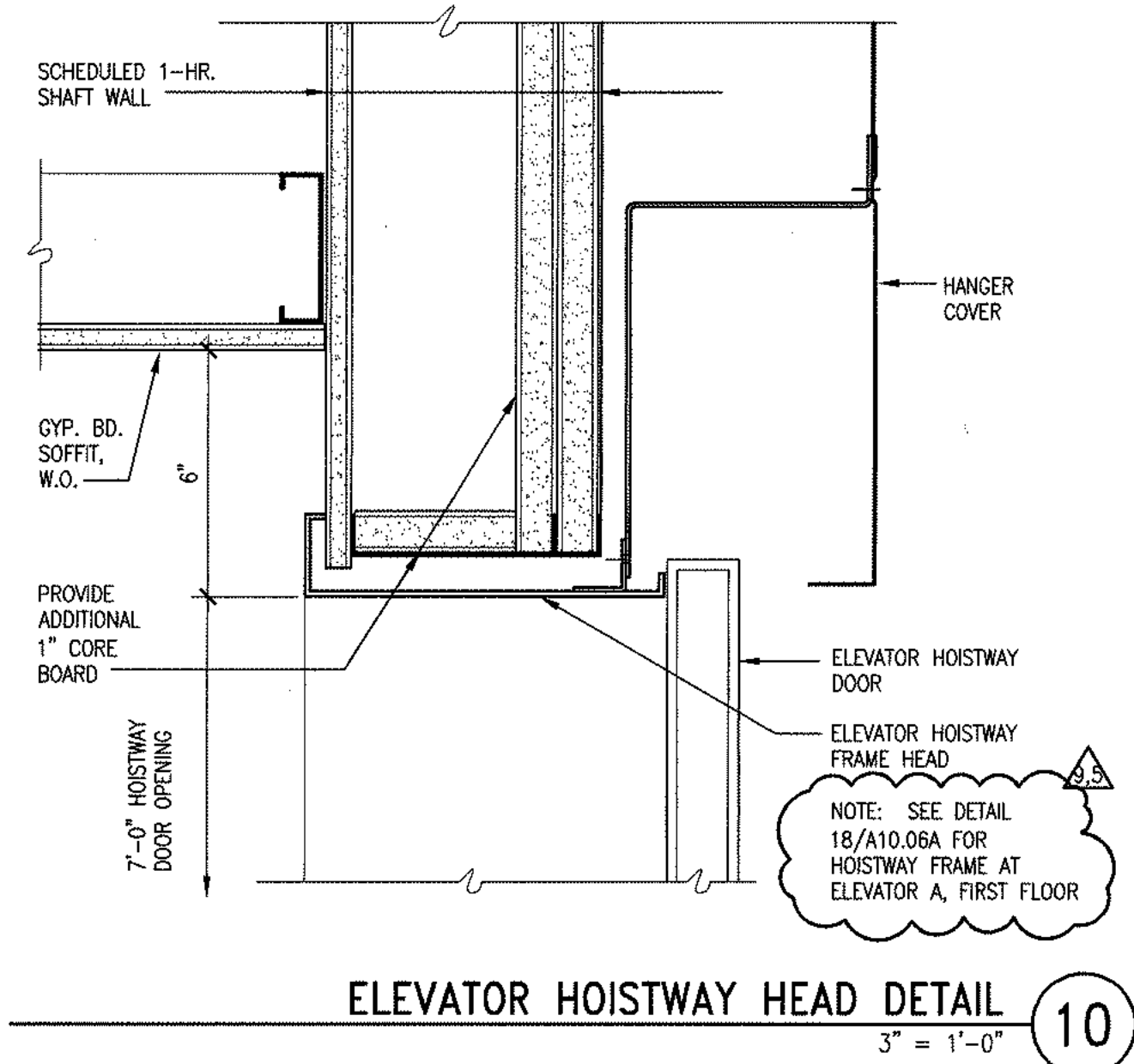
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DETAILS

SCALE: AS NOTED DATE: 2003.04.18
DRAWN BY: DDH PROJECT NUMBER: 20114.00
SHEET NUMBER

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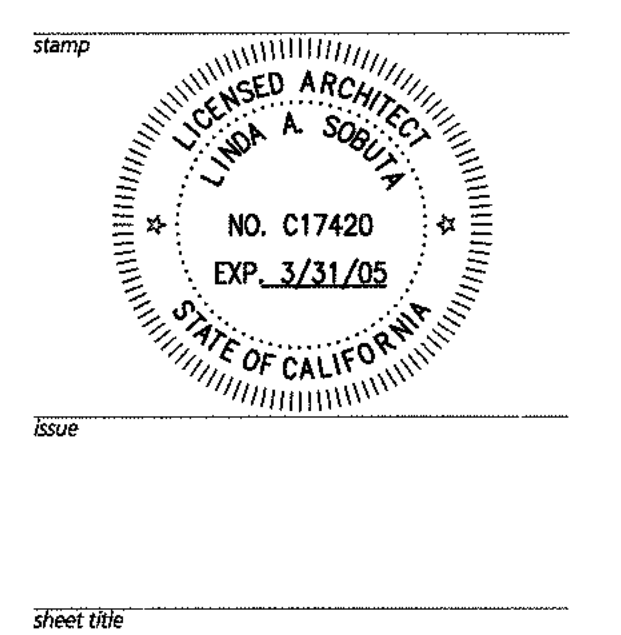
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2003.05.07 ADDENDUM NO. 1
2003.08.29 RFI NO. 0053
2004.02.04 CCD NO. 7.5

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VERTICAL
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ELEVATORS

scale 1/4" = 1'-0"
drawn by project number
sheet number

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- GENERAL NOTES
1. ALL BRICK VENEER IS COLOR 1, U.O.N.
 2. ALL DIMENSIONS ARE NOMINAL, BASED ON BRICK MODULE (TO CENTERLINE OF JOINT).
 3. SEE DETAILS 1, 2, 3, 4/ AB.10 FOR BRICK COURSE RELATIONSHIPS.
 4. MINIMUM SPACING AND THICKNESS OF C.F. MTL. FRAMING: 6"x18" GA AT 16" O.C. SPACING OF STUDS MUST BE COORDINATED W/ SPACING OF BRICK TIES.

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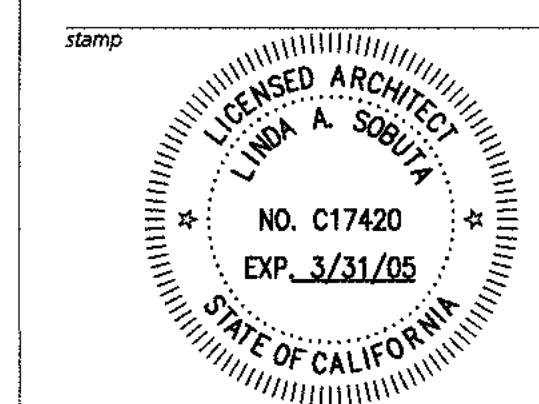
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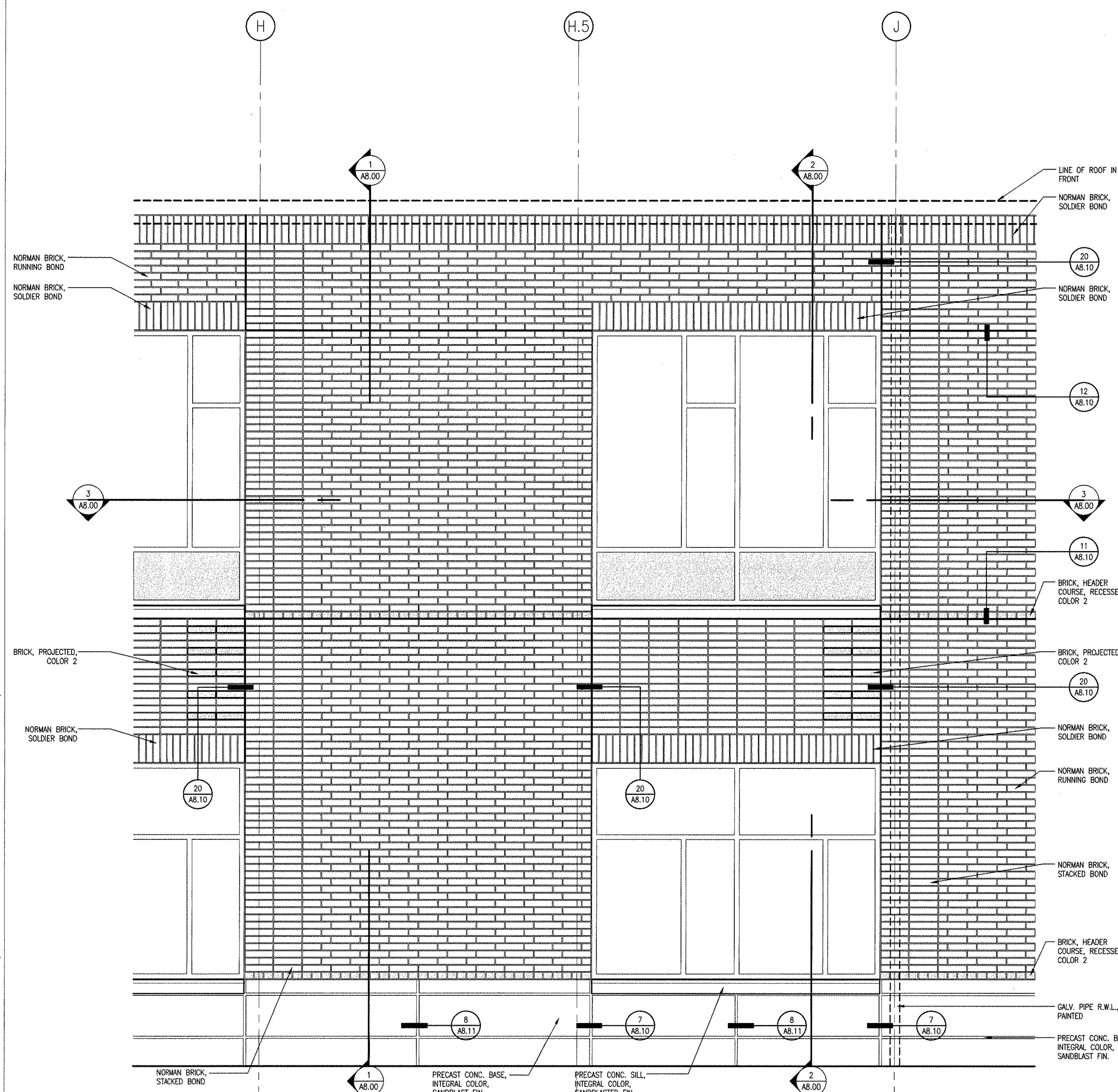
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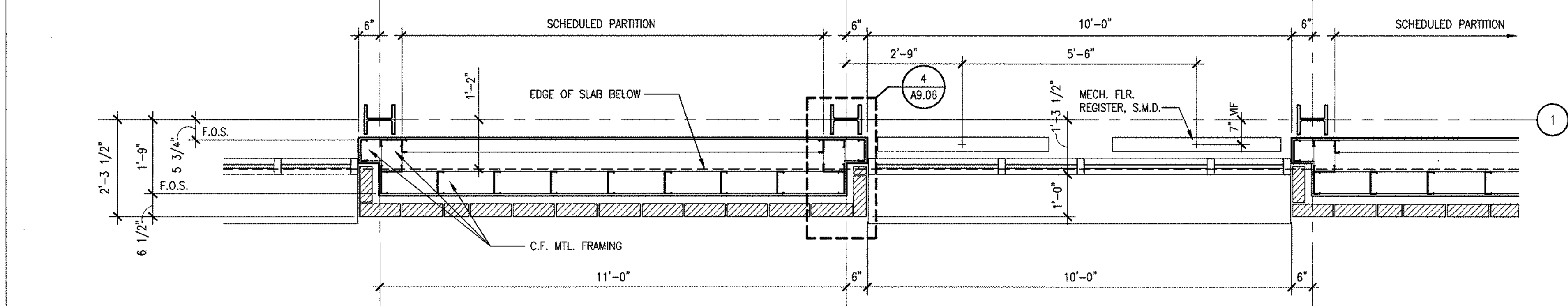
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 WALL SECTIONS

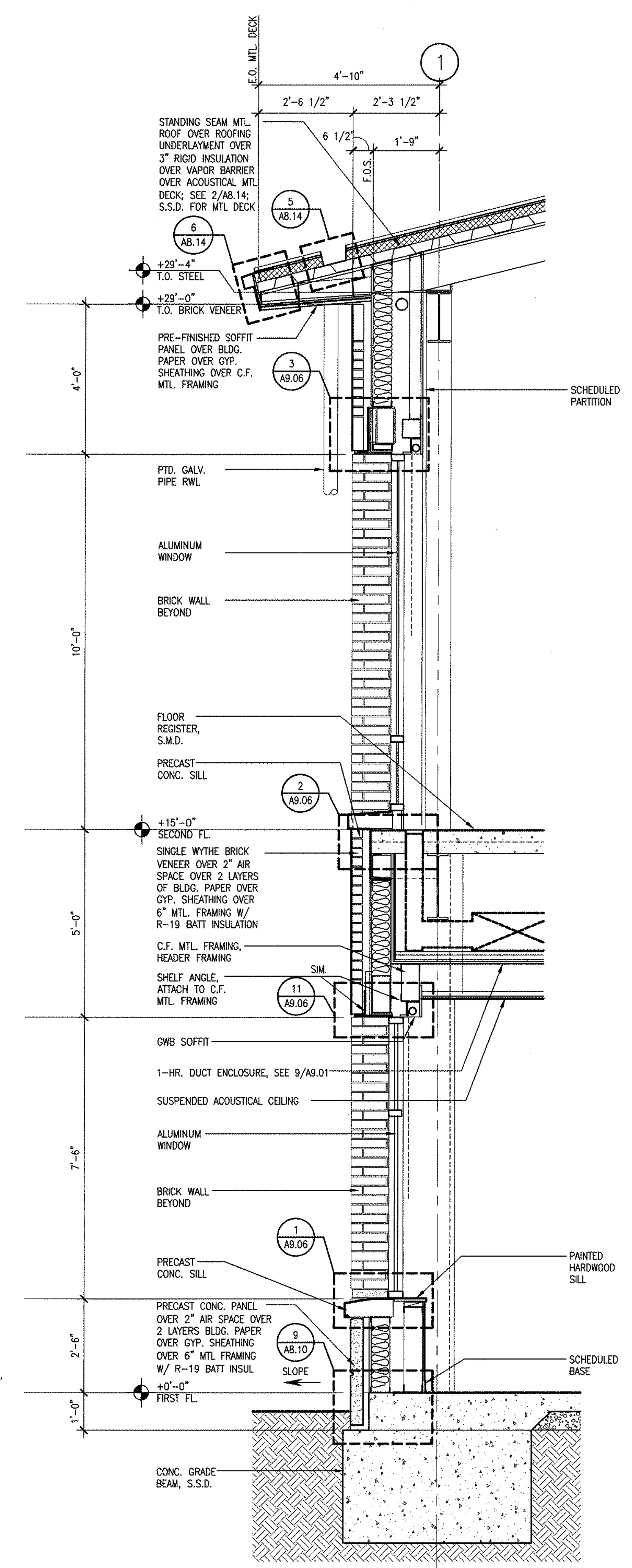
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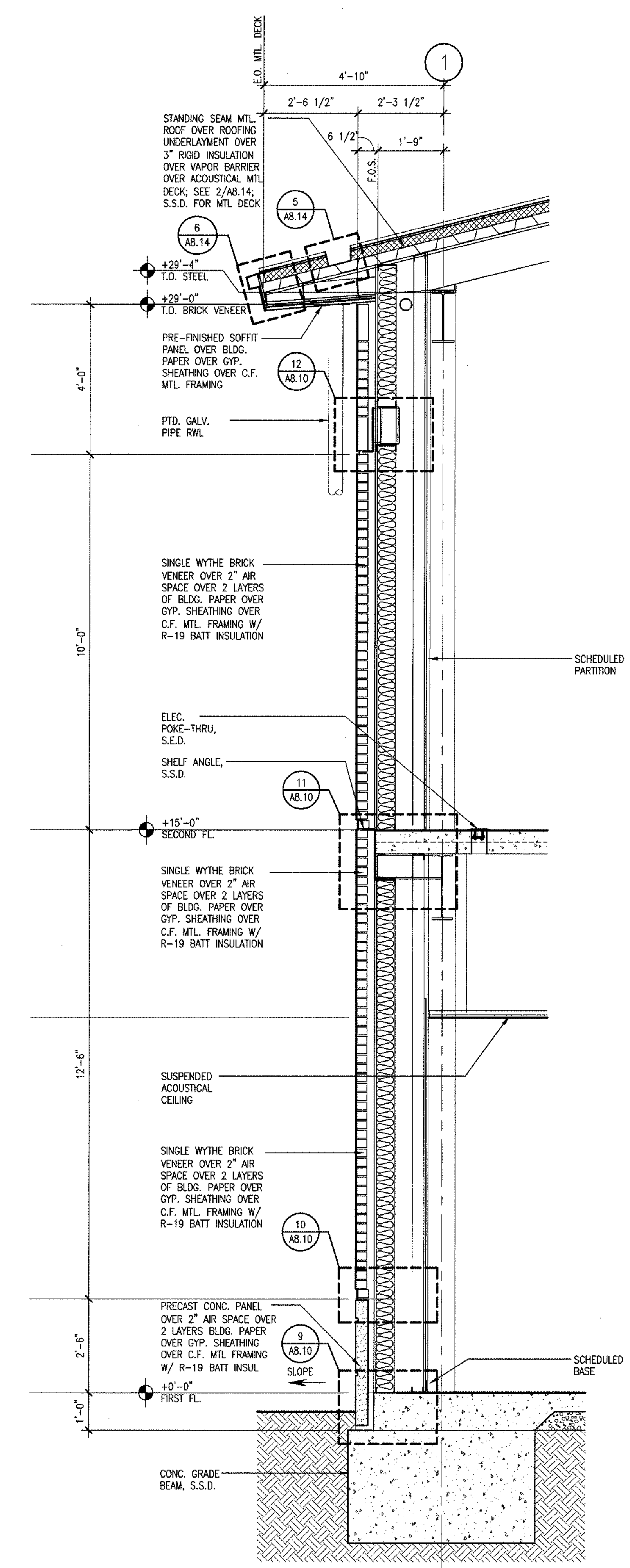
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ENLARGED SECOND FLOOR PLAN (FIRST FLOOR SIMILAR) 1/2"=1'-0" 3

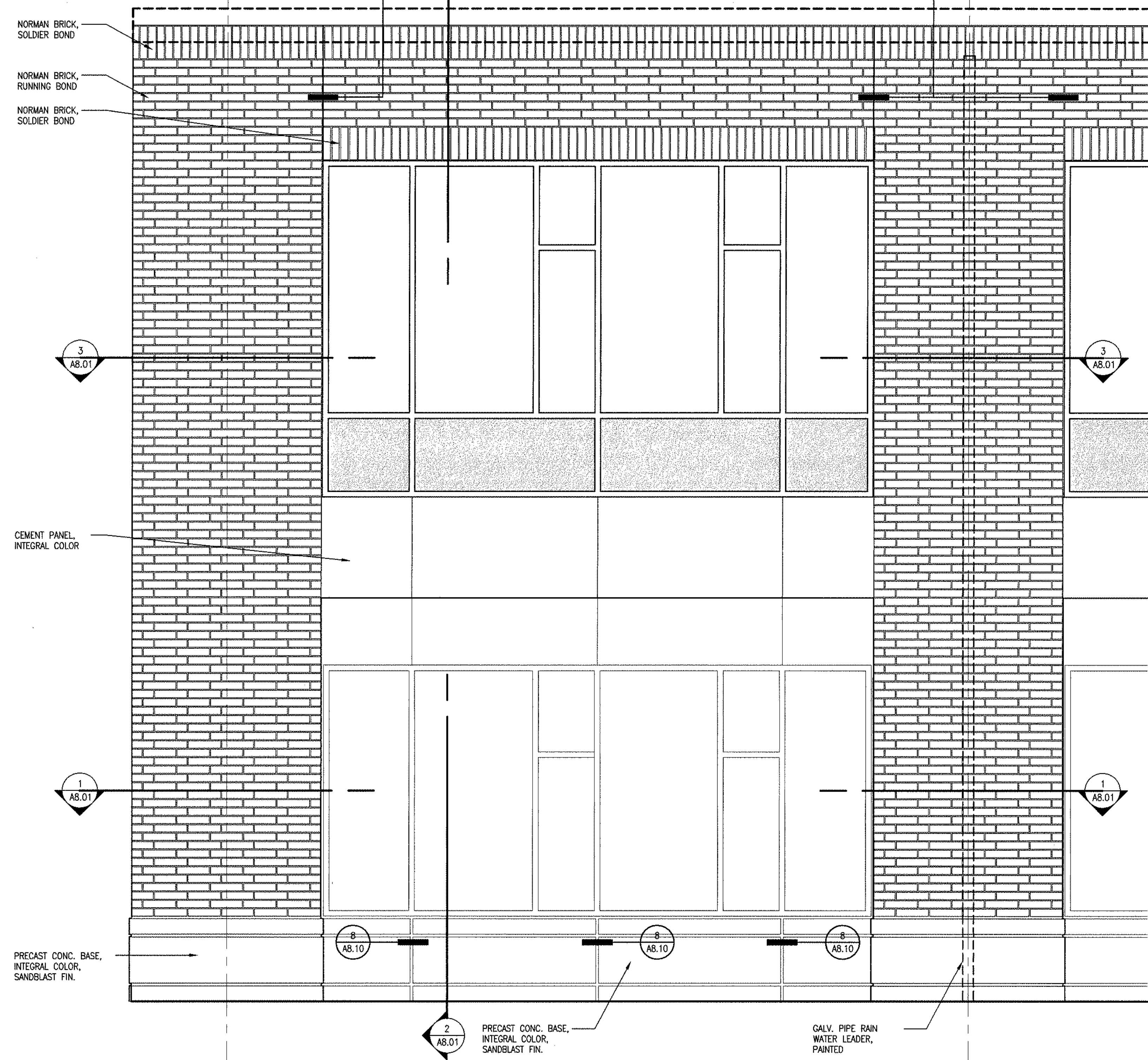


WALL SECTION 2 1/2"=1'-0" 2

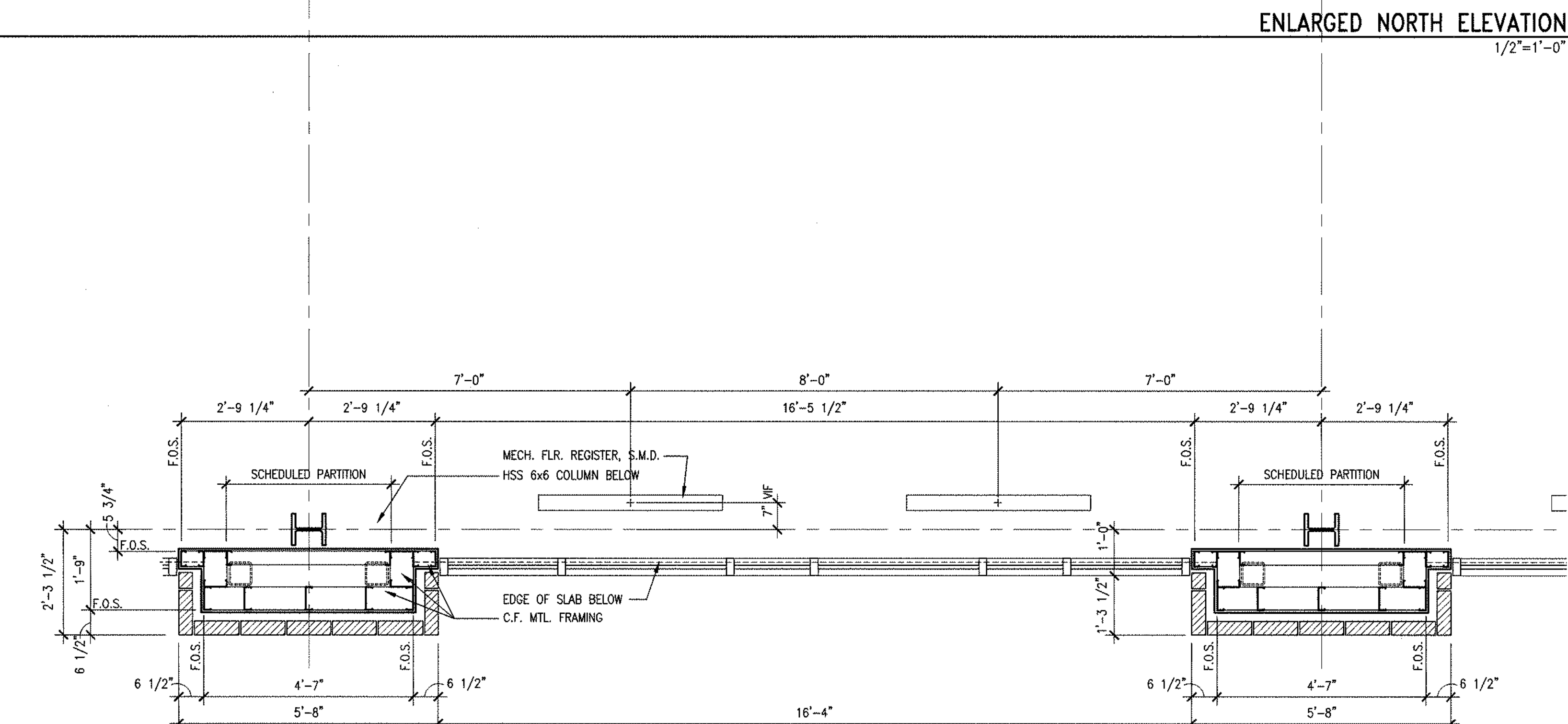


WALL SECTION 1 1/2"=1'-0" 1

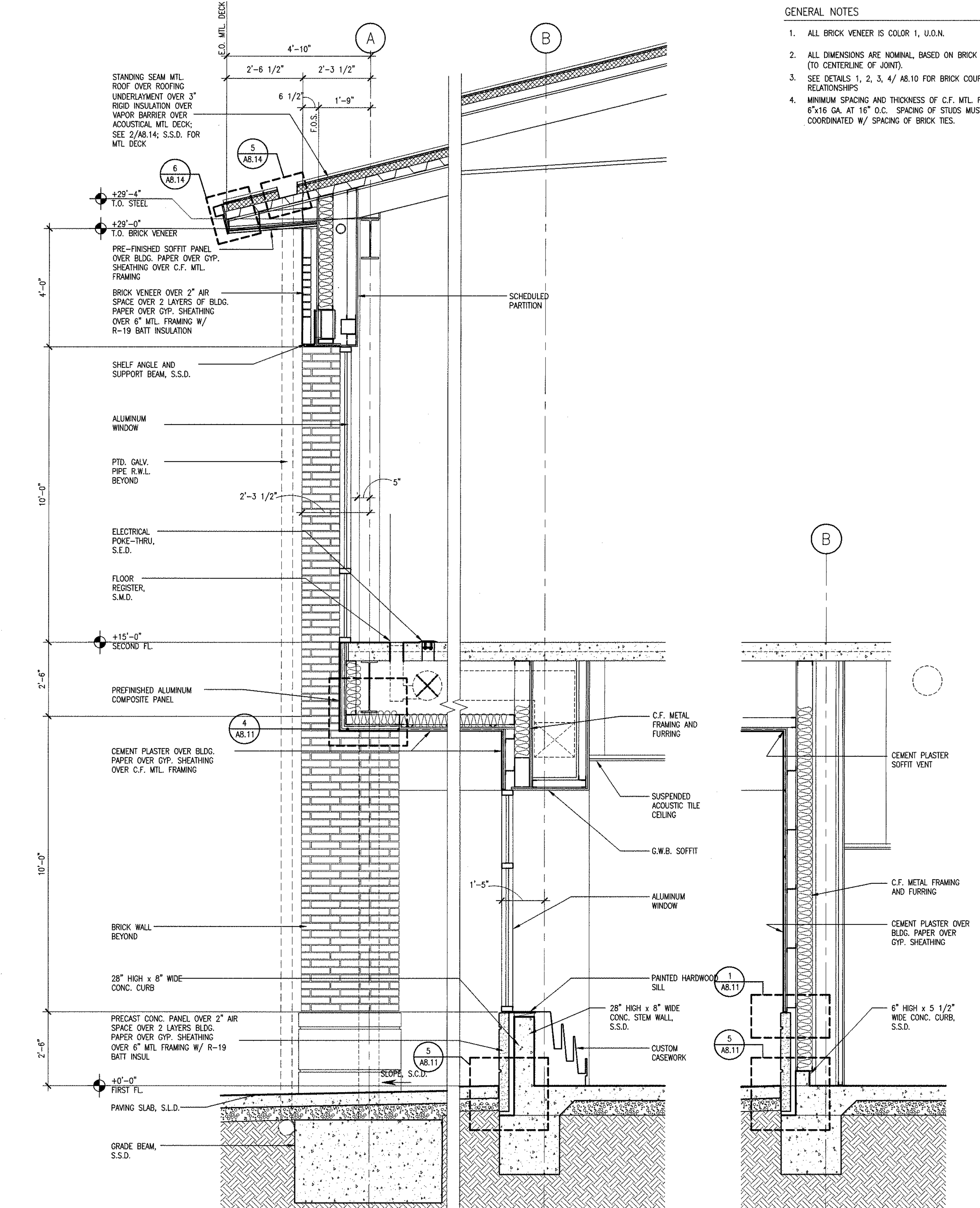
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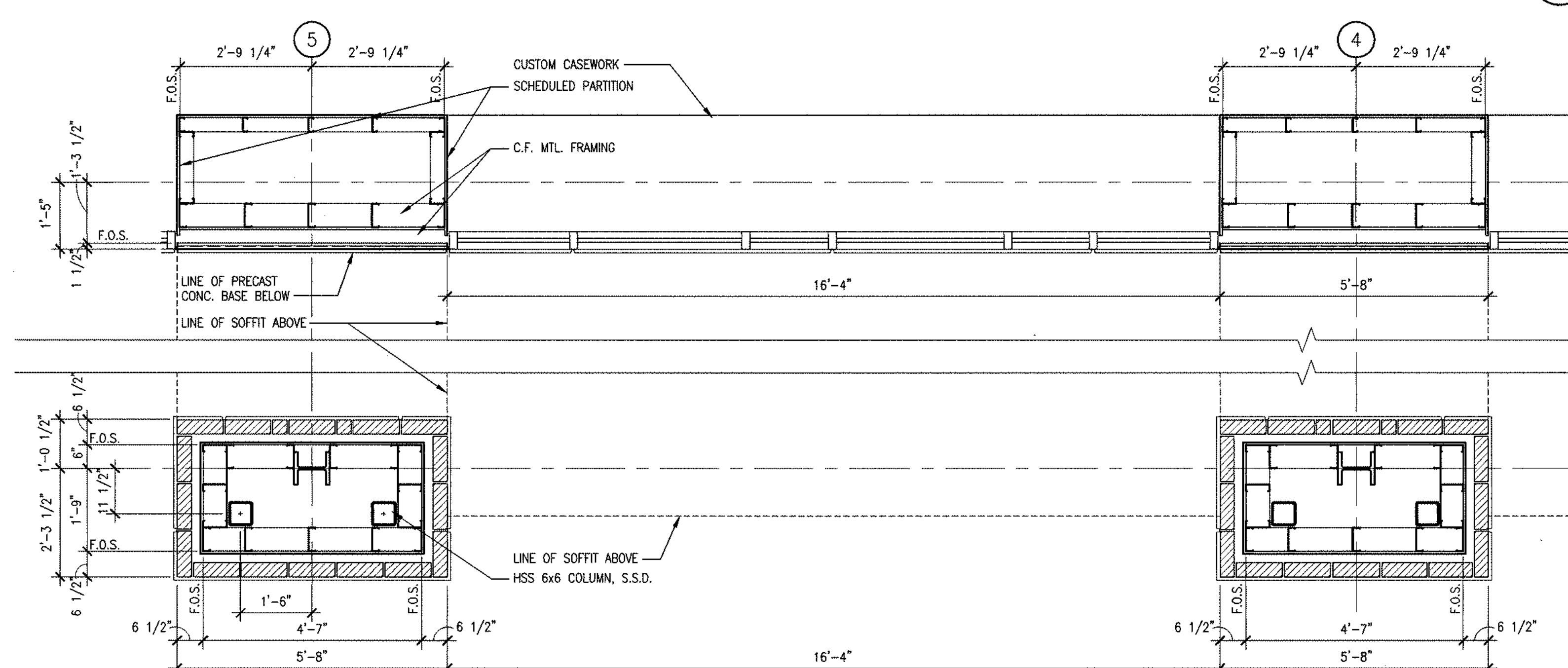
ENLARGED NORTH ELEVATION
1/2"=1'-0" ④



ENLARGED SECOND FLOOR PLAN
1/2"=1'-0" ③



WALL SECTION
1/2"=1'-0" ②



ENLARGED FIRST FLOOR PLAN
1/2"=1'-0" ①

- GENERAL NOTES
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 3. SEE DETAILS 1, 2, 3, 4/ AB.10 FOR BRICK COURSE RELATIONSHIPS
 4. MINIMUM SPACING AND THICKNESS OF C.F. MTL. FRAMING: 6"x16 GA. AT 16" O.C. SPACING OF STUDS MUST BE COORDINATED W/ SPACING OF BRICK TIES.

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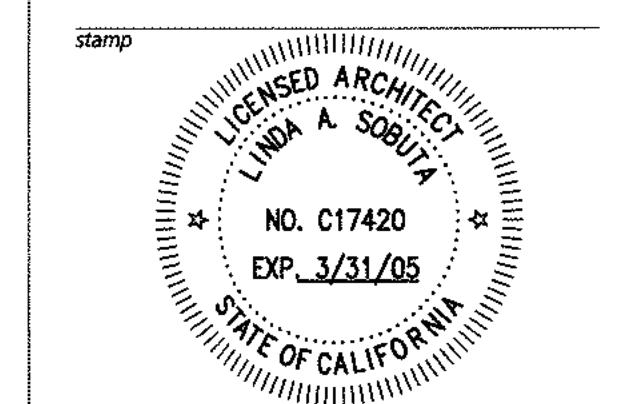
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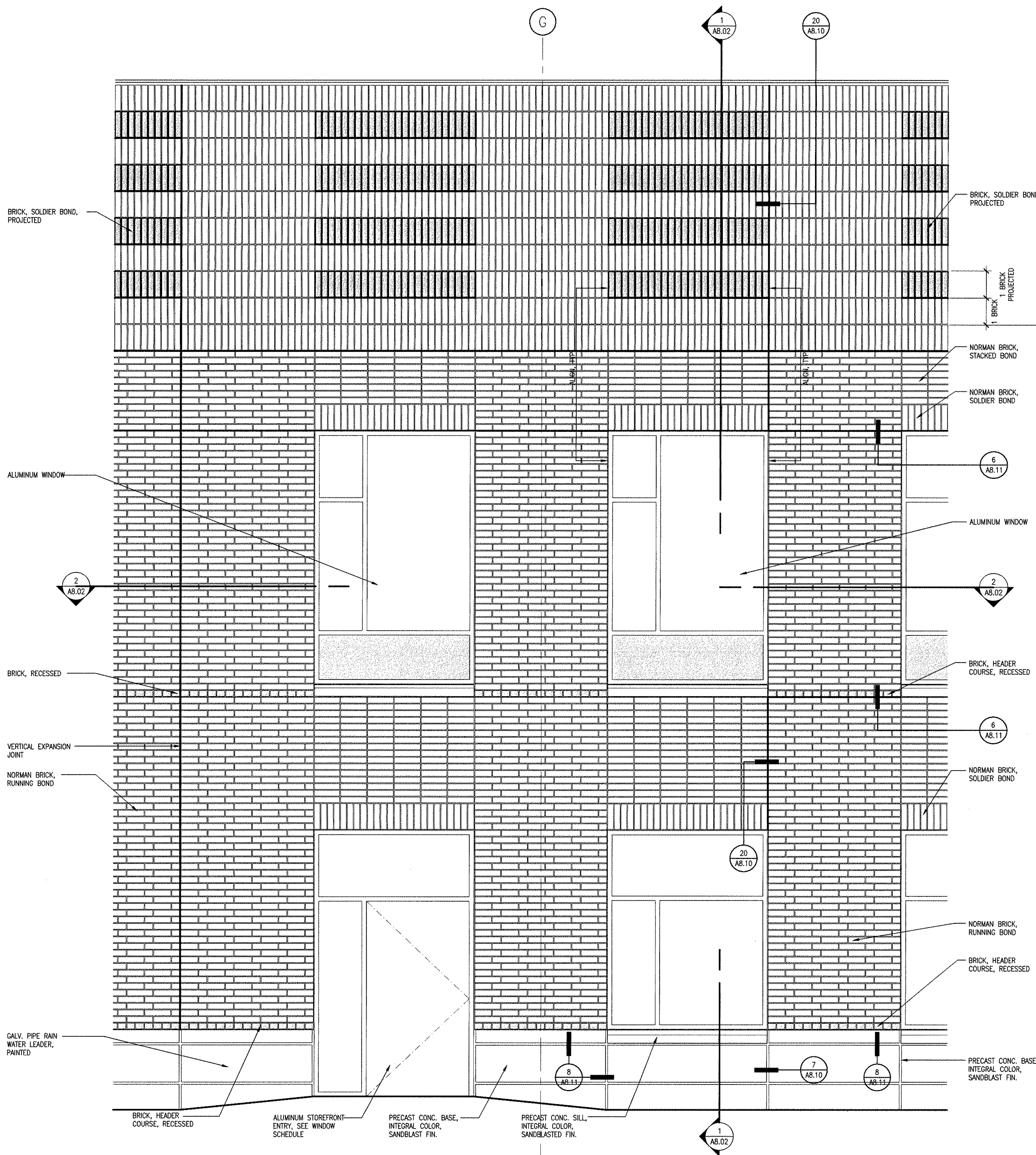
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WALL SECTIONS

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Date: 2003.04.18
Drawn by: LO
Project Number: 20114.00
Sheet Number: 4

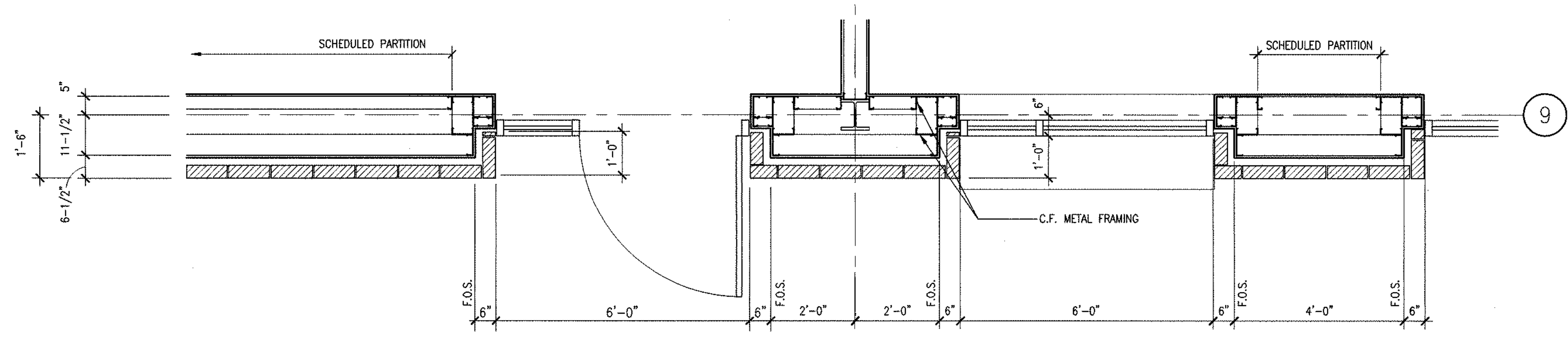
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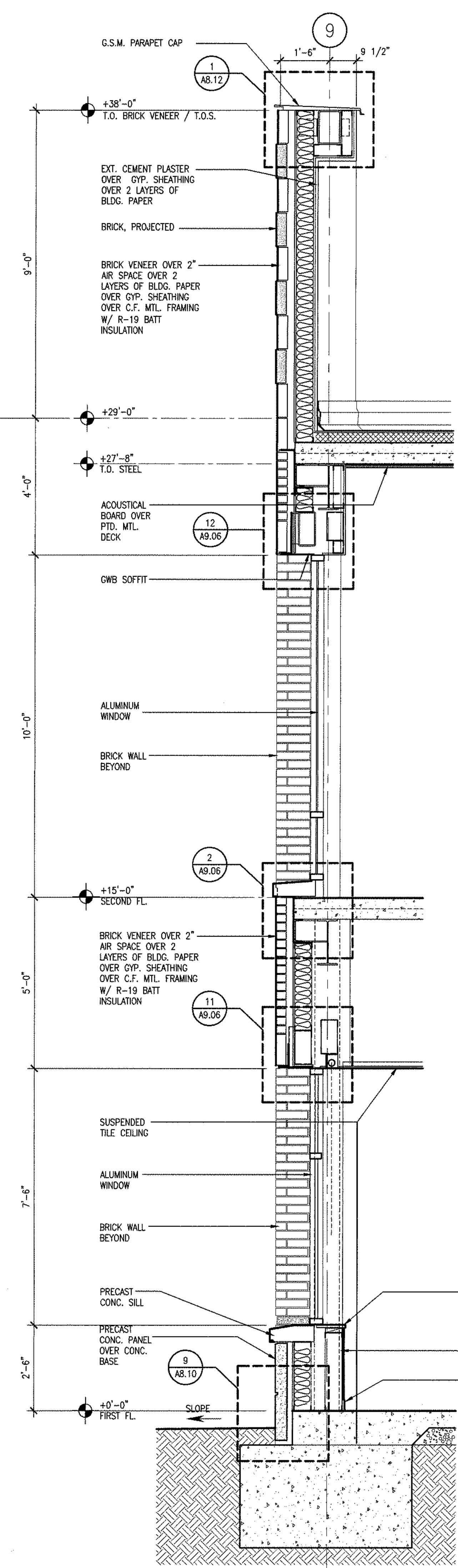
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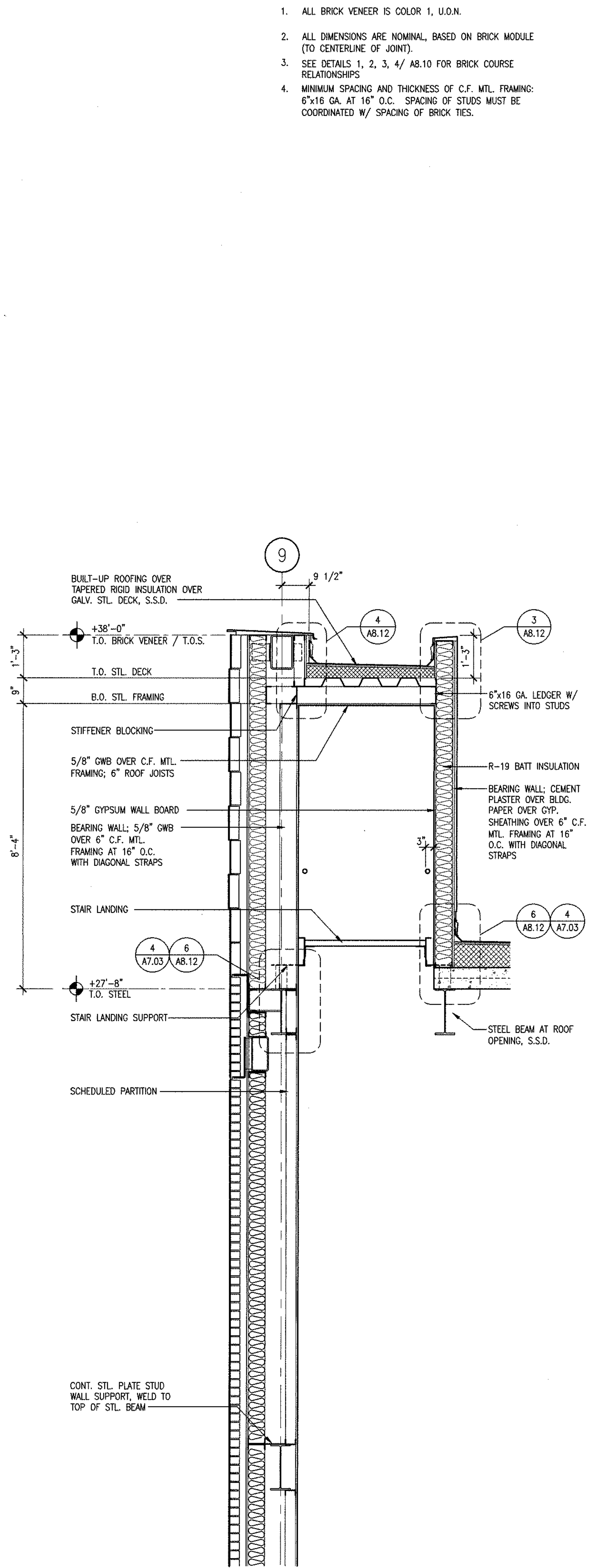
ENLARGED ELEVATION: EAST ELEVATION
1/2"=1'-0" 3



ENLARGED FIRST FLOOR PLAN: EAST ELEVATION
1/2"=1'-0" 2



WALL SECTION 1
1/2"=1'-0" 1



WALL SECTION 4
1/2"=1'-0" 4

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EXP. 3/31/06
STATE OF CALIFORNIA

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Issue

Sheet title

LIBRARY WALL SECTIONS

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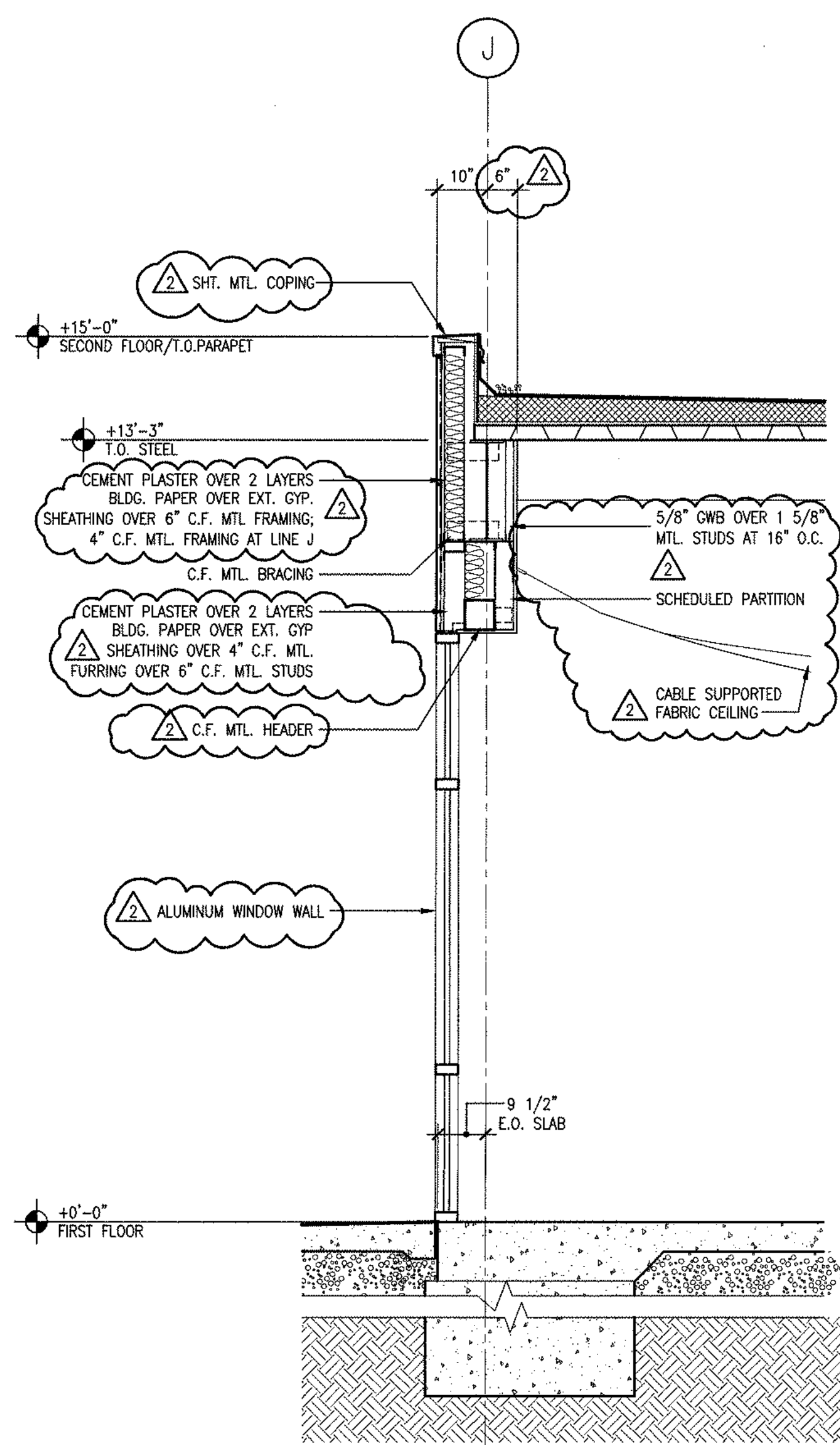
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drawn by: LO project number: 20114.00

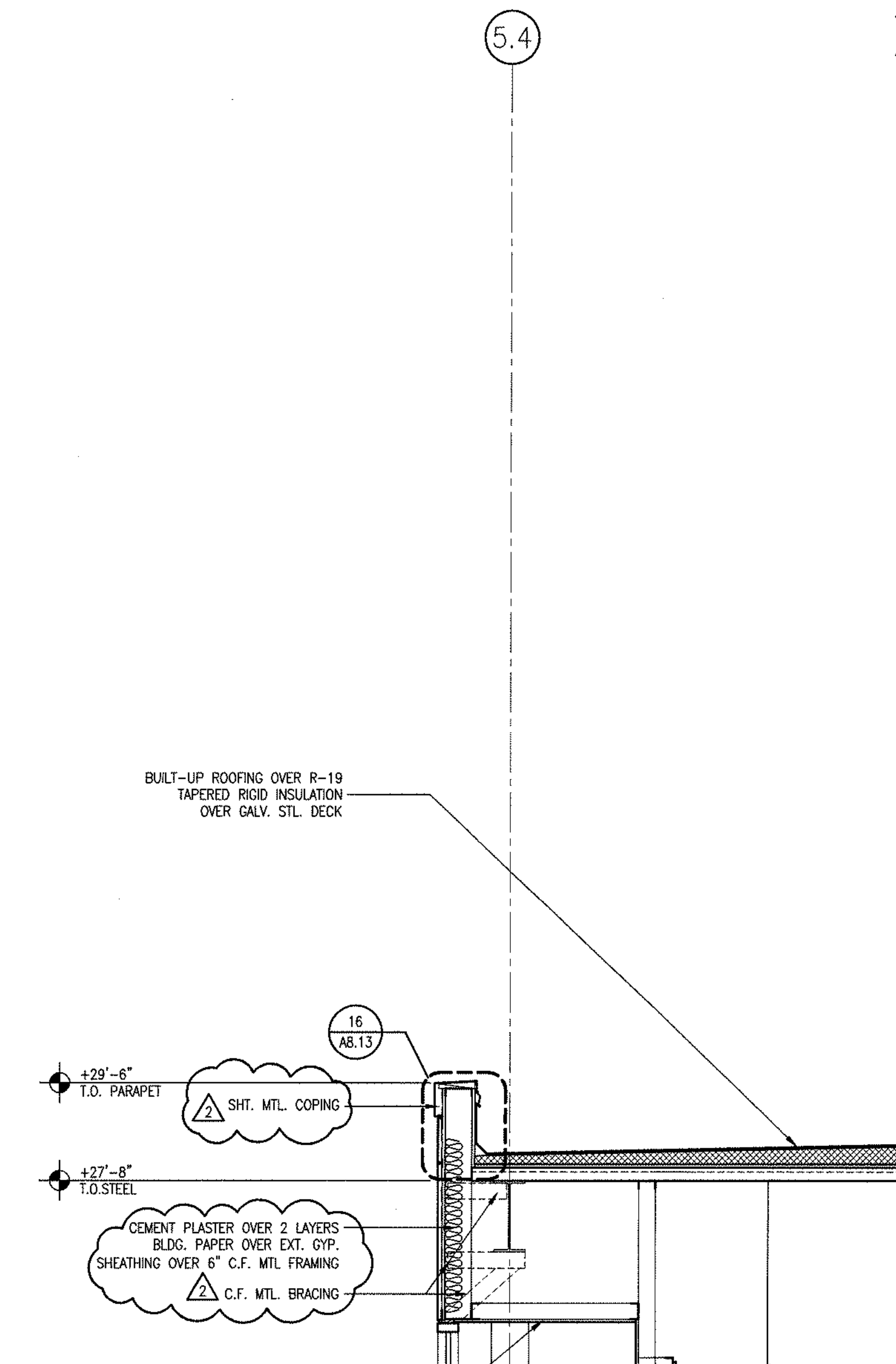
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GENERAL NOTES

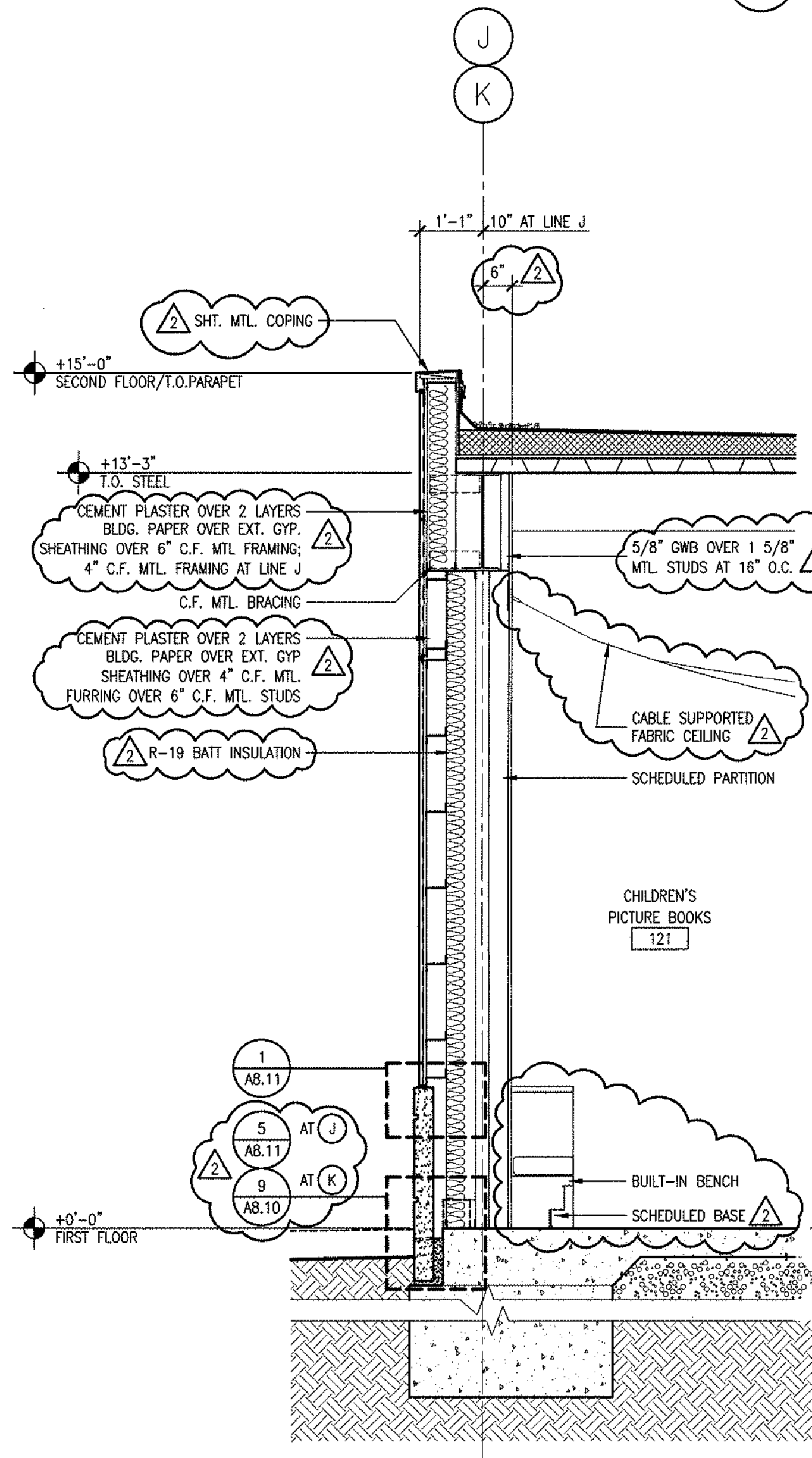
1. ALL BRICK VENEER IS COLOR 1, U.O.N.
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3. SEE DETAILS 1, 2, 3, 4/ A8.10 FOR BRICK COURSE RELATIONSHIPS.
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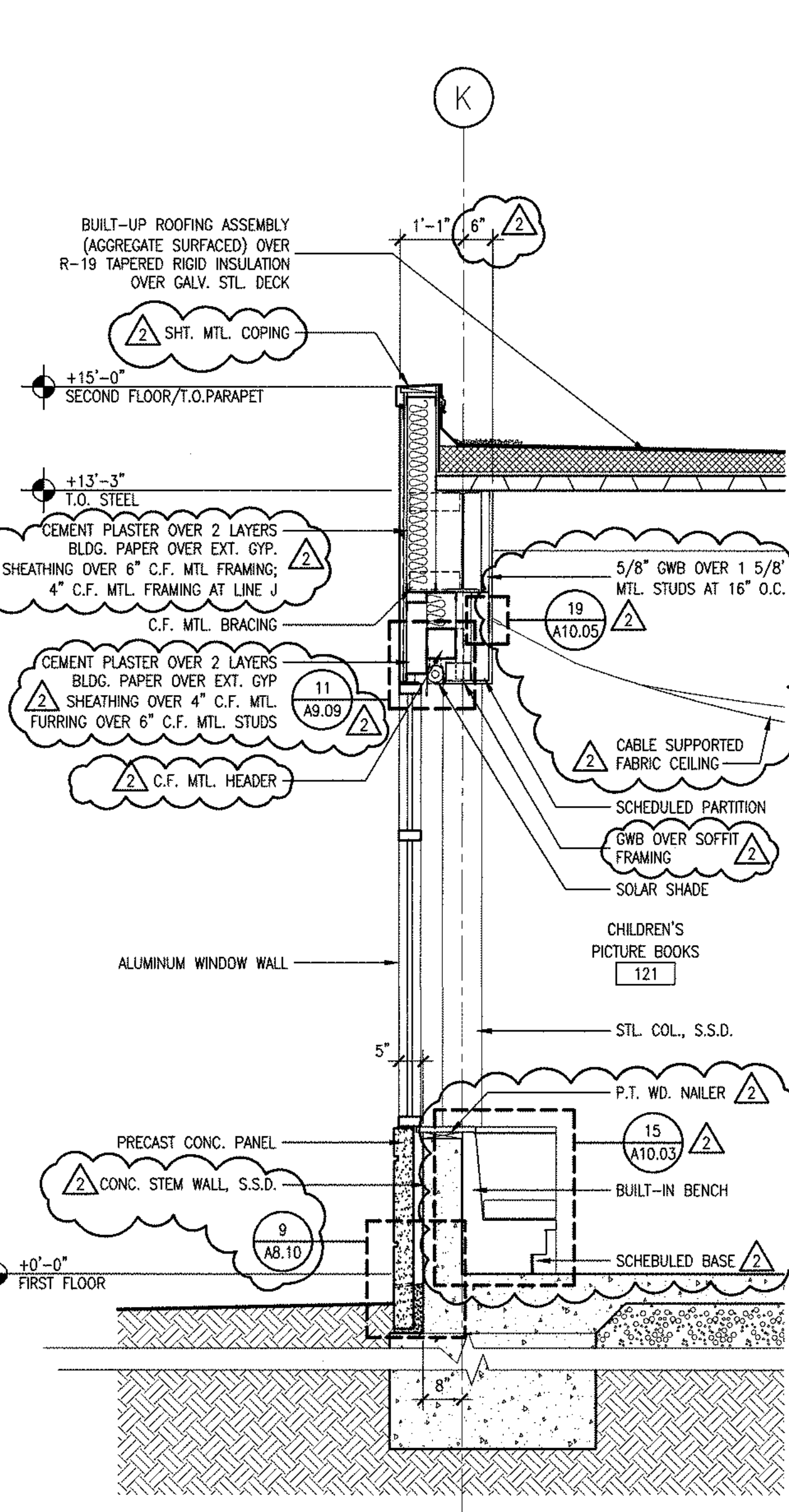
WALL SECTION 5
1/2" = 1'-0"



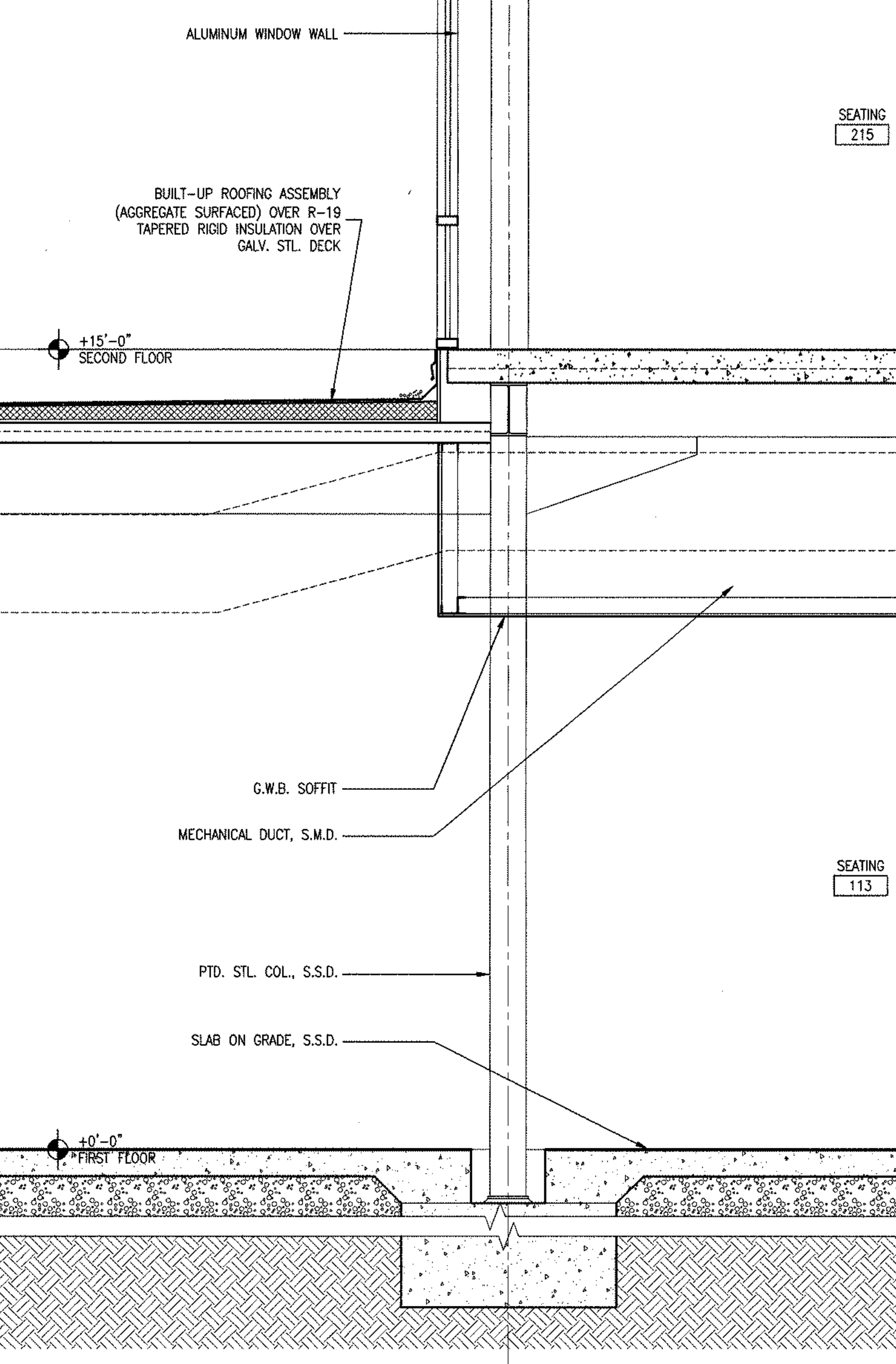
WALL SECTION 4
1/2" = 1'-0"



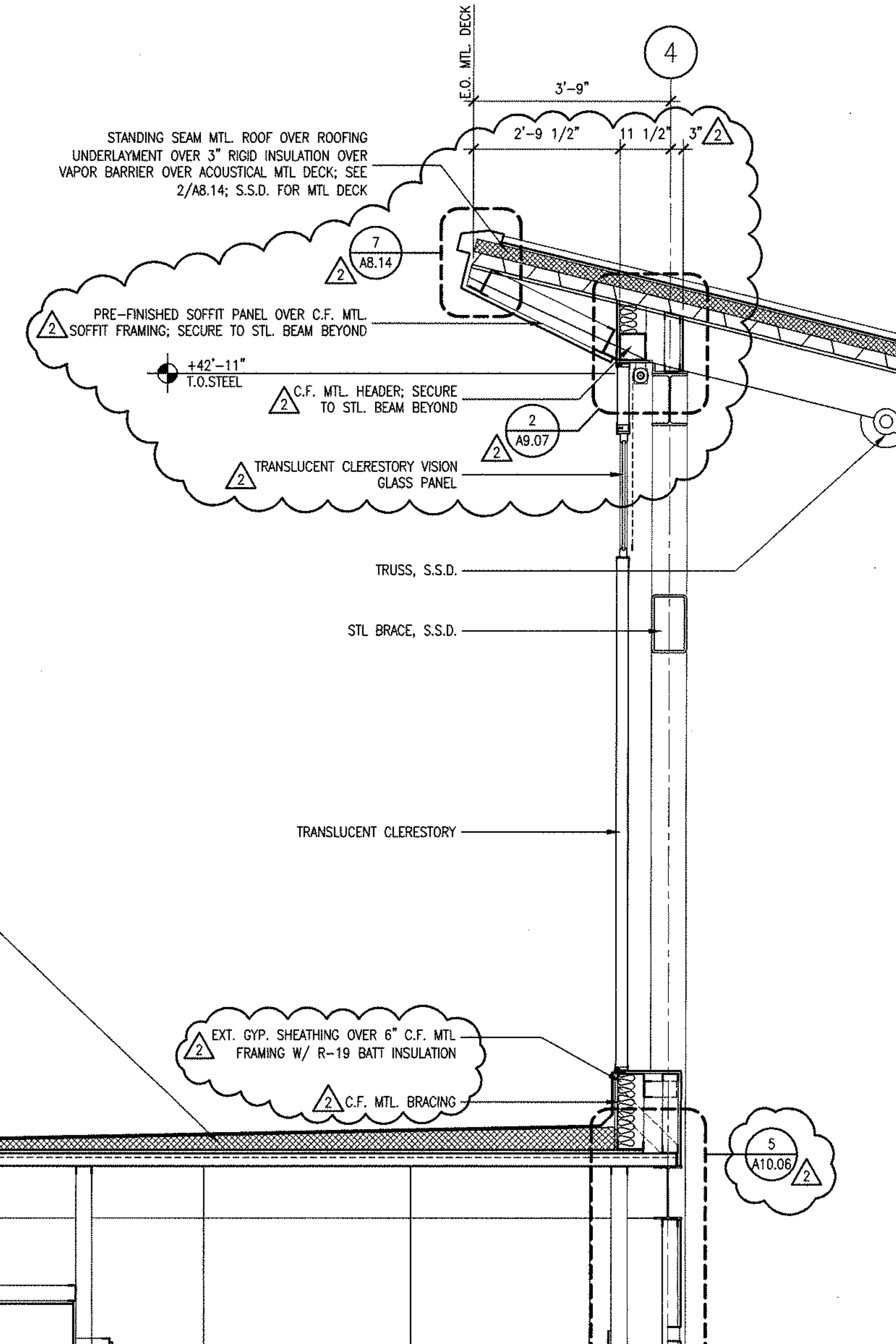
WALL SECTION 3
1/2" = 1'-0"



WALL SECTION 2
1/2" = 1'-0"



WALL SECTION 1
1/2" = 1'-0"



WALL SECTION 1
1/2" = 1'-0"

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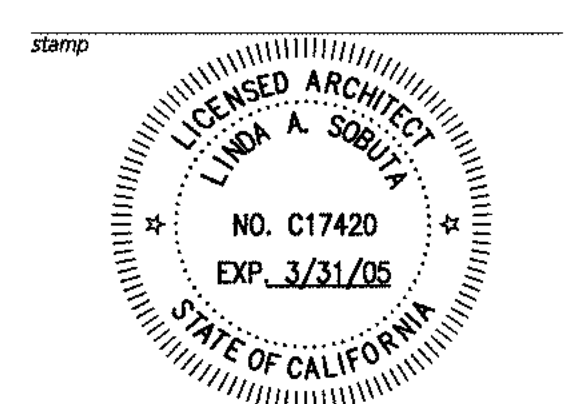
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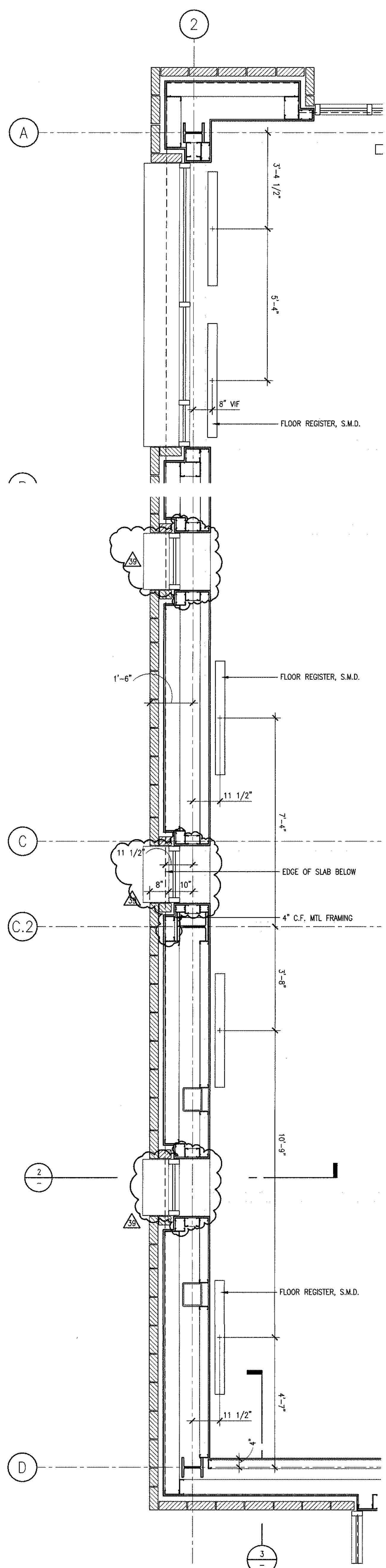
BID SET

LIBRARY
WALL SECTIONS

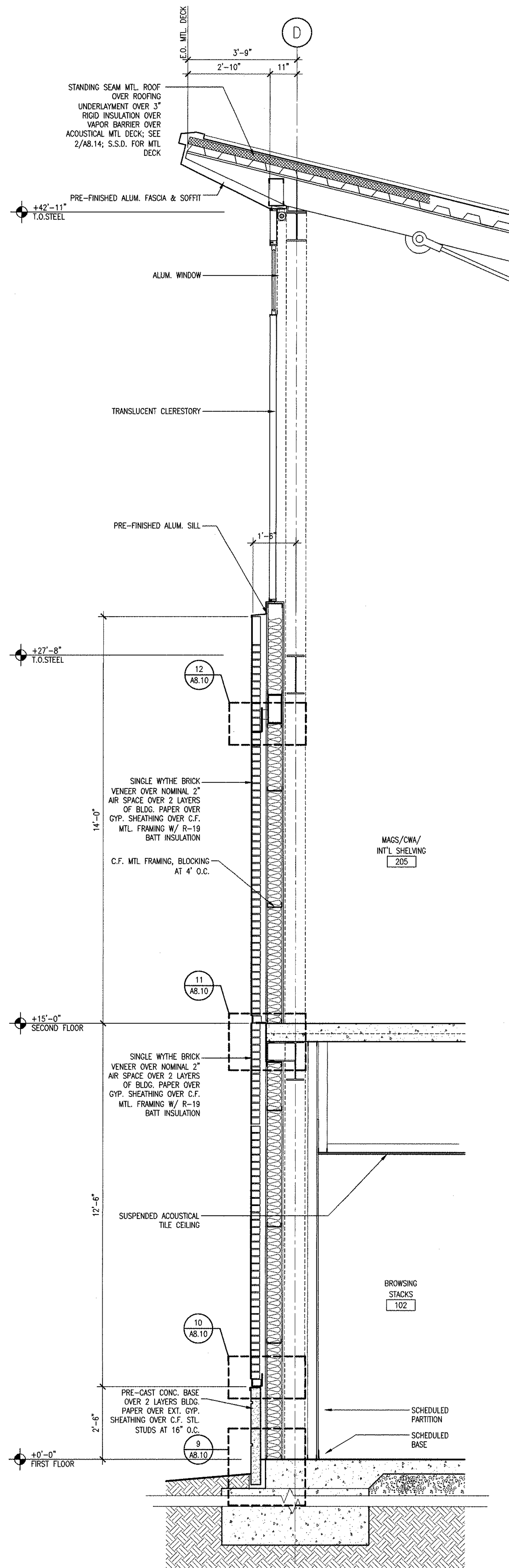
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drawn by LR project number 20114.00
sheet number

A8.03

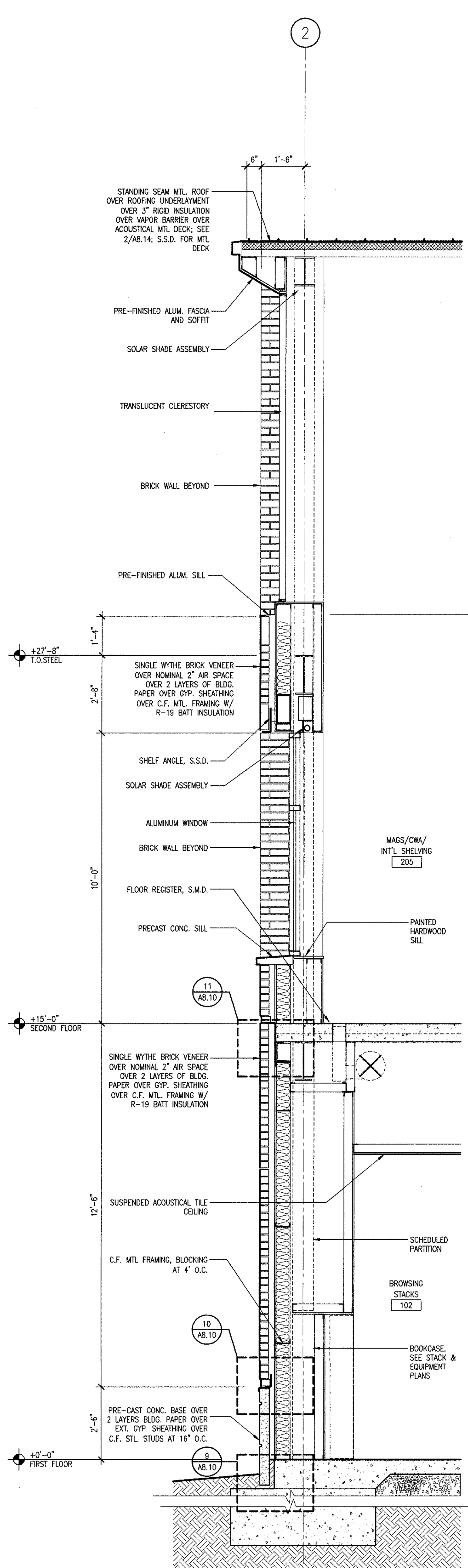
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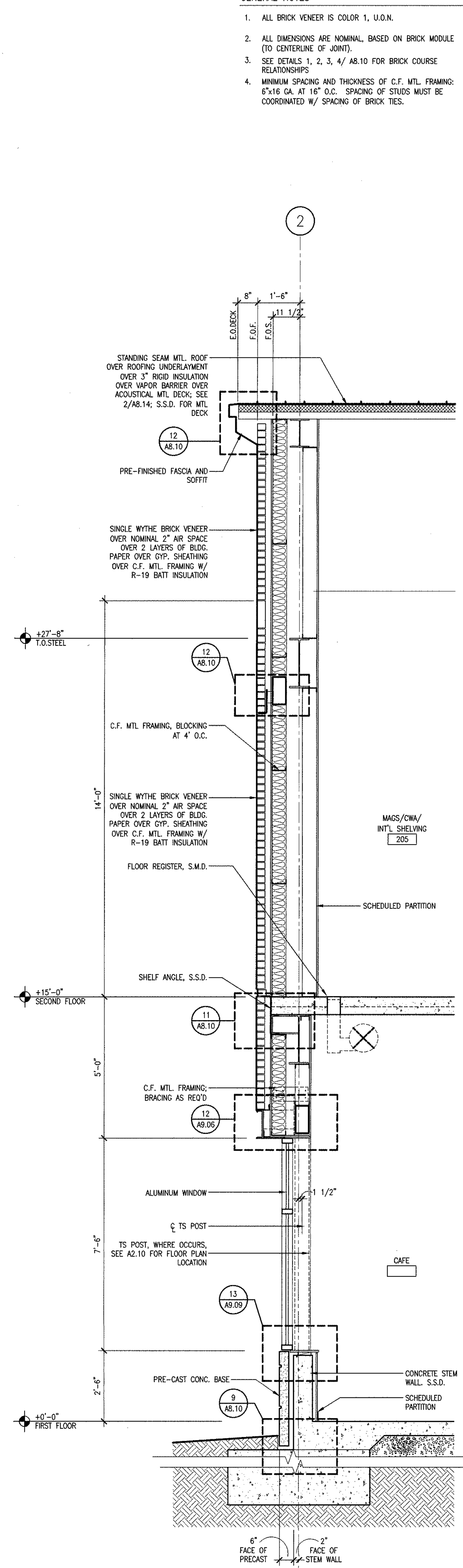
ENLARGED SECOND FLOOR PLAN
1/2" = 1'-0" ④



WALL SECTION
1/2" = 1'-0" ③



WALL SECTION
1/2" = 1'-0" ②



WALL SECTION
1/2" = 1'-0" ①

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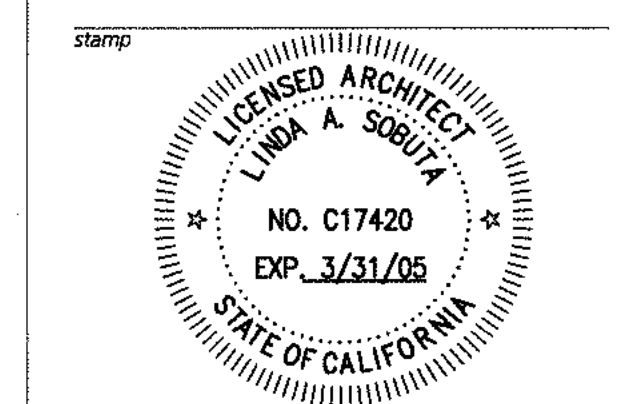
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GENERAL NOTES

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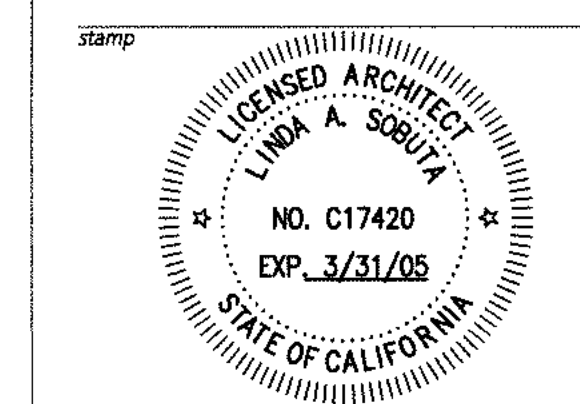
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REVISIONS	DATE	DESCRIPTION
1	2003.05.30	ADDENDUM NO. 2

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 Contract Documents**

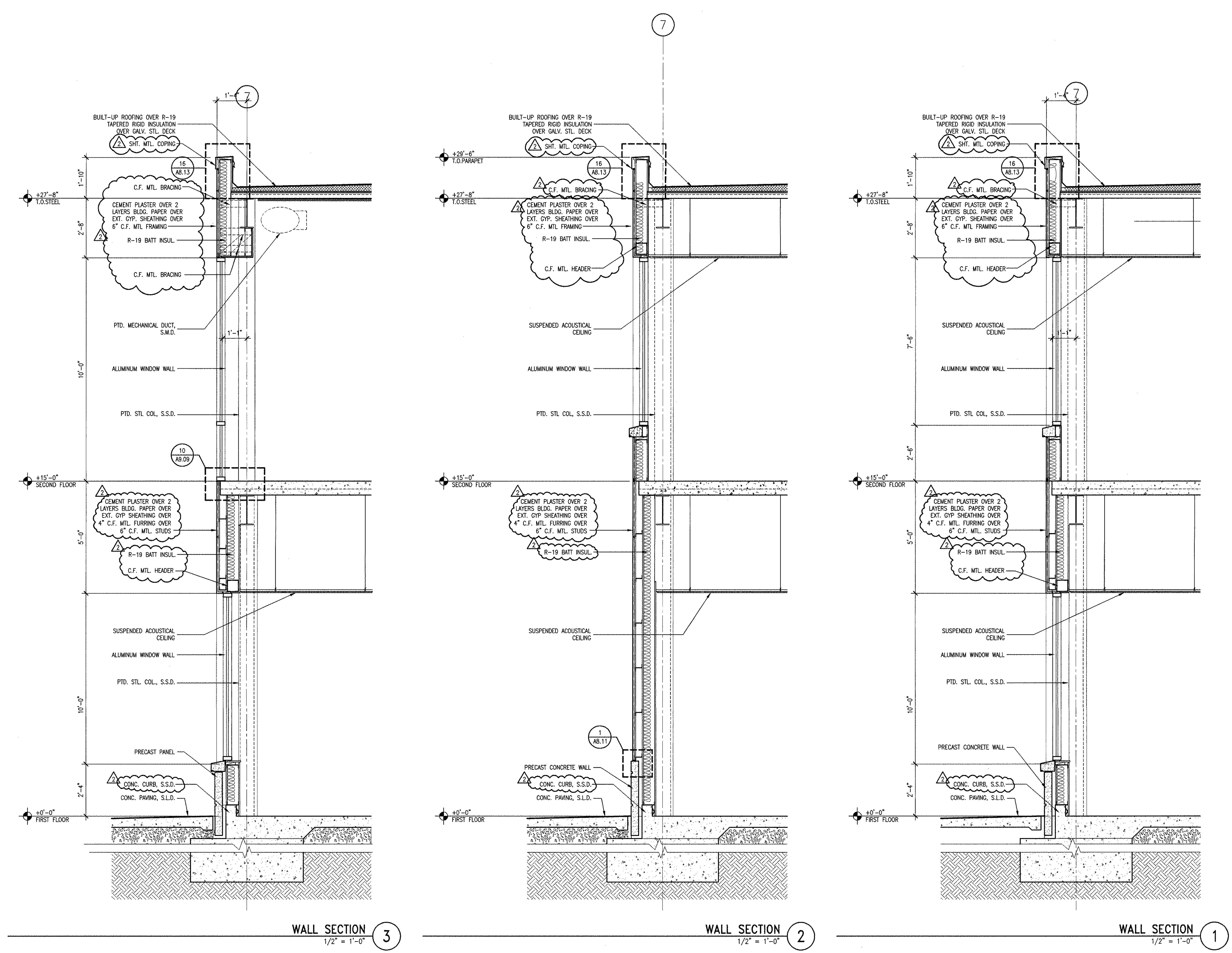


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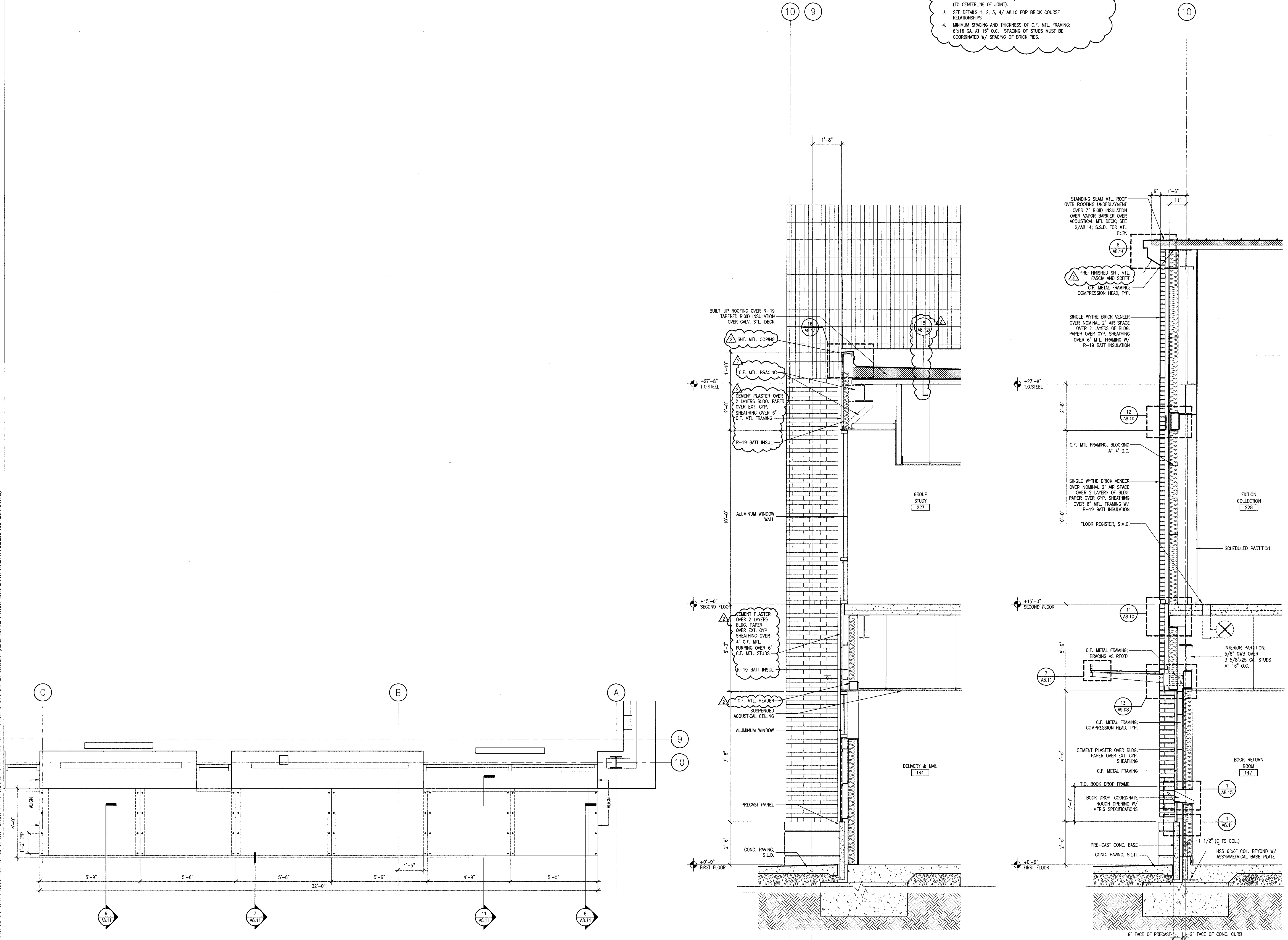
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ENLARGED PLAN OF CANOPY
1/2" = 1'-0" (3)

WALL SECTION
1/2" = 1'-0" (2)

WALL SECTION
1/2" = 1'-0" (1)

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2003.05.30 ADDENDUM NO. 2

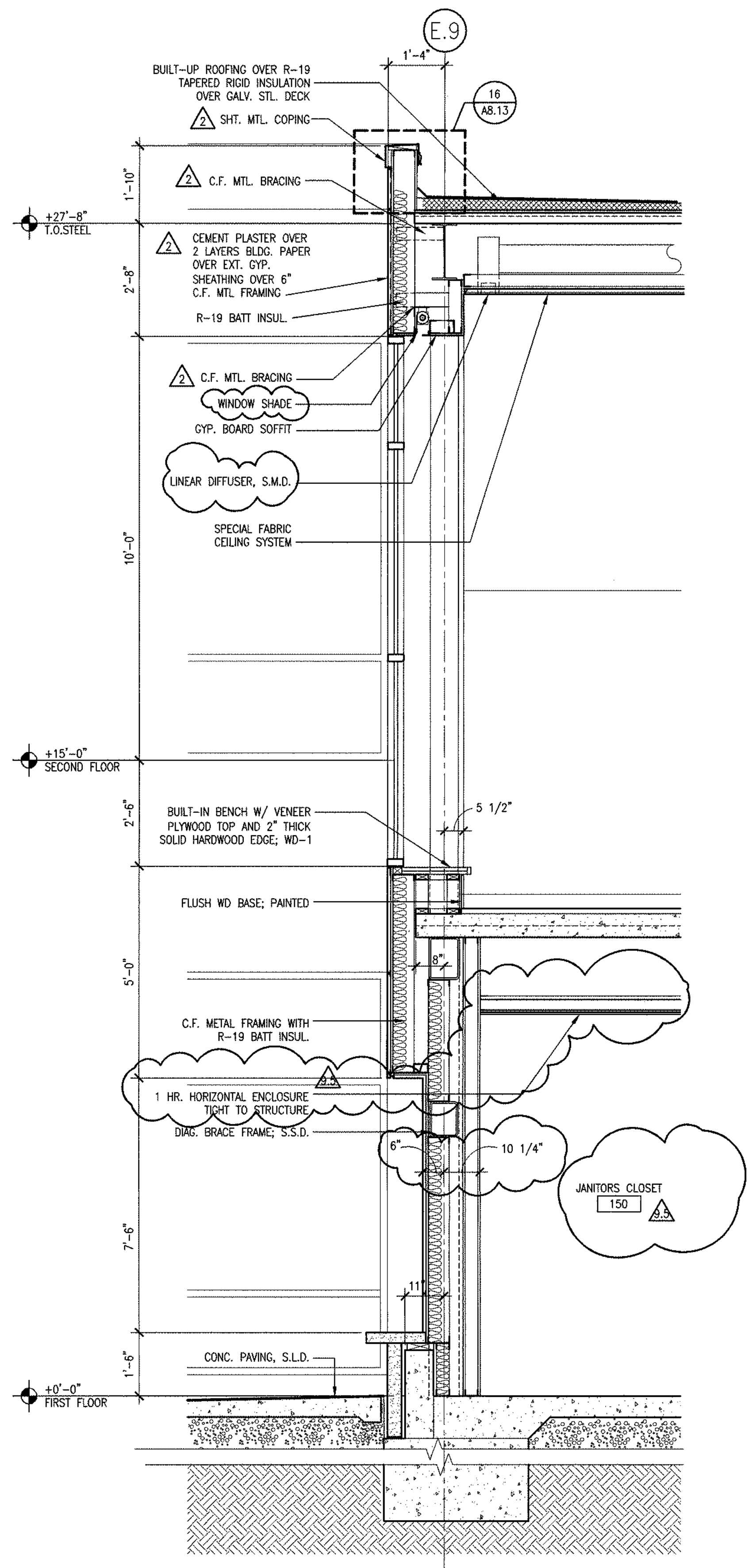
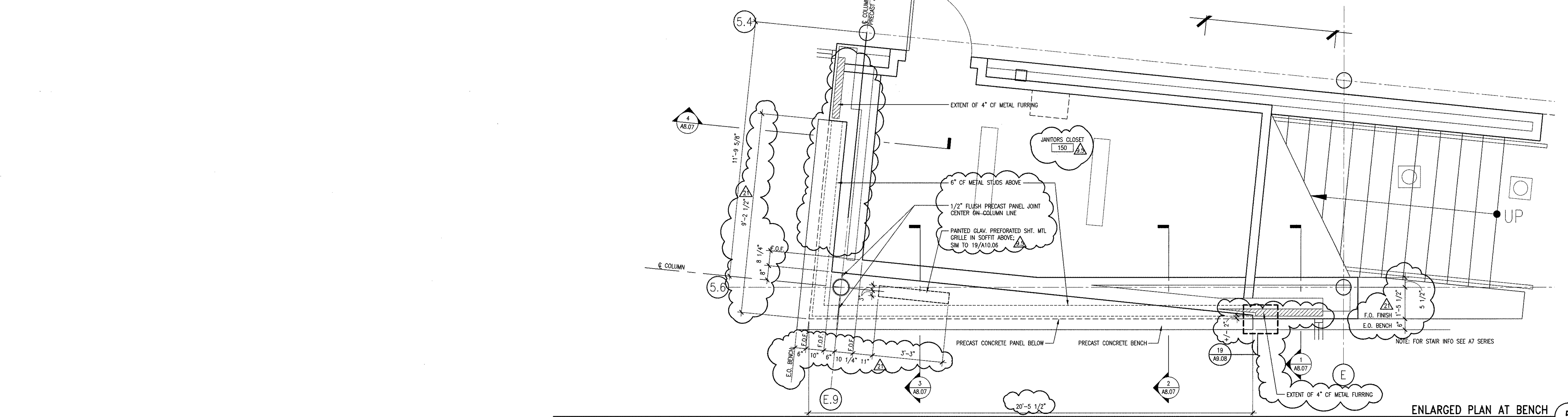
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NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

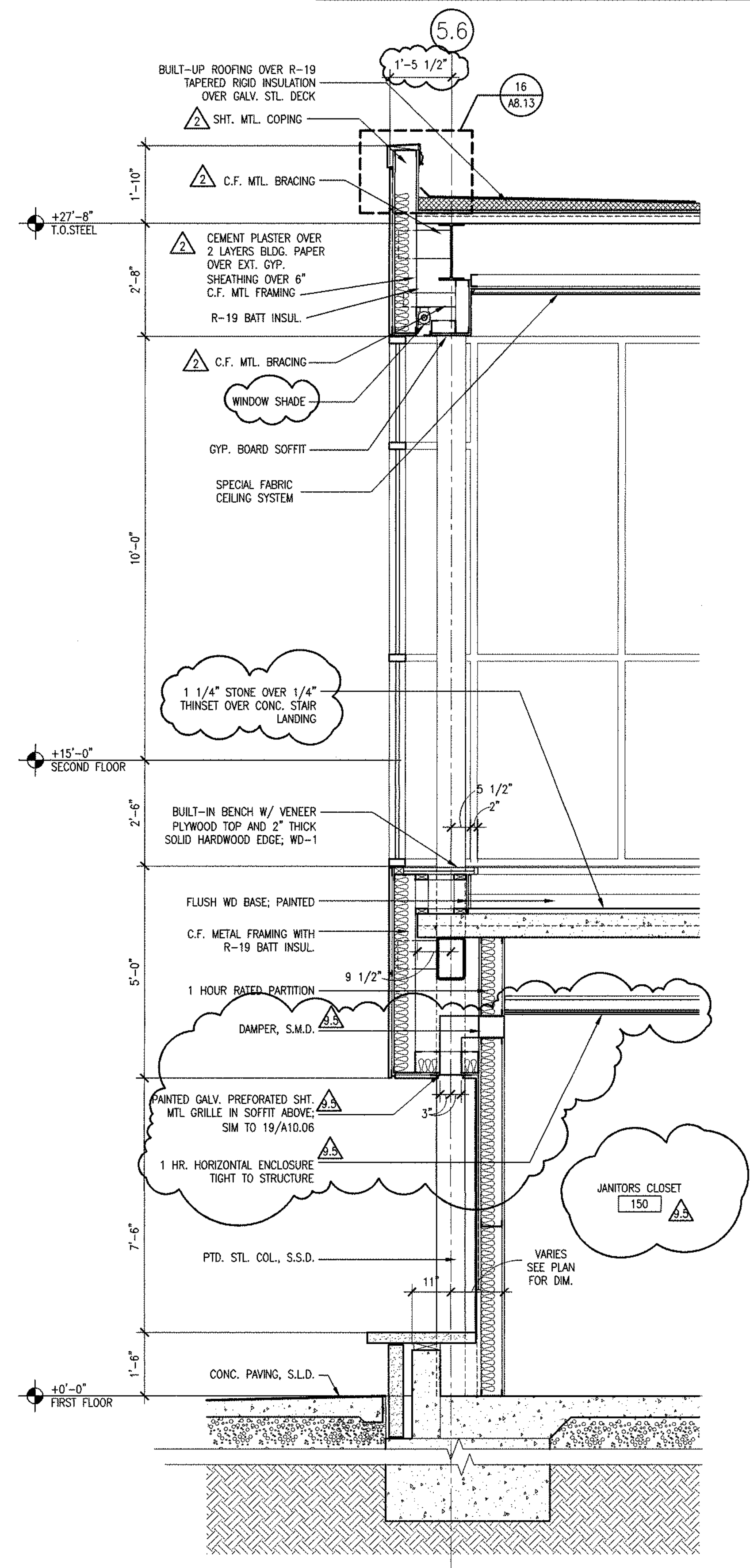
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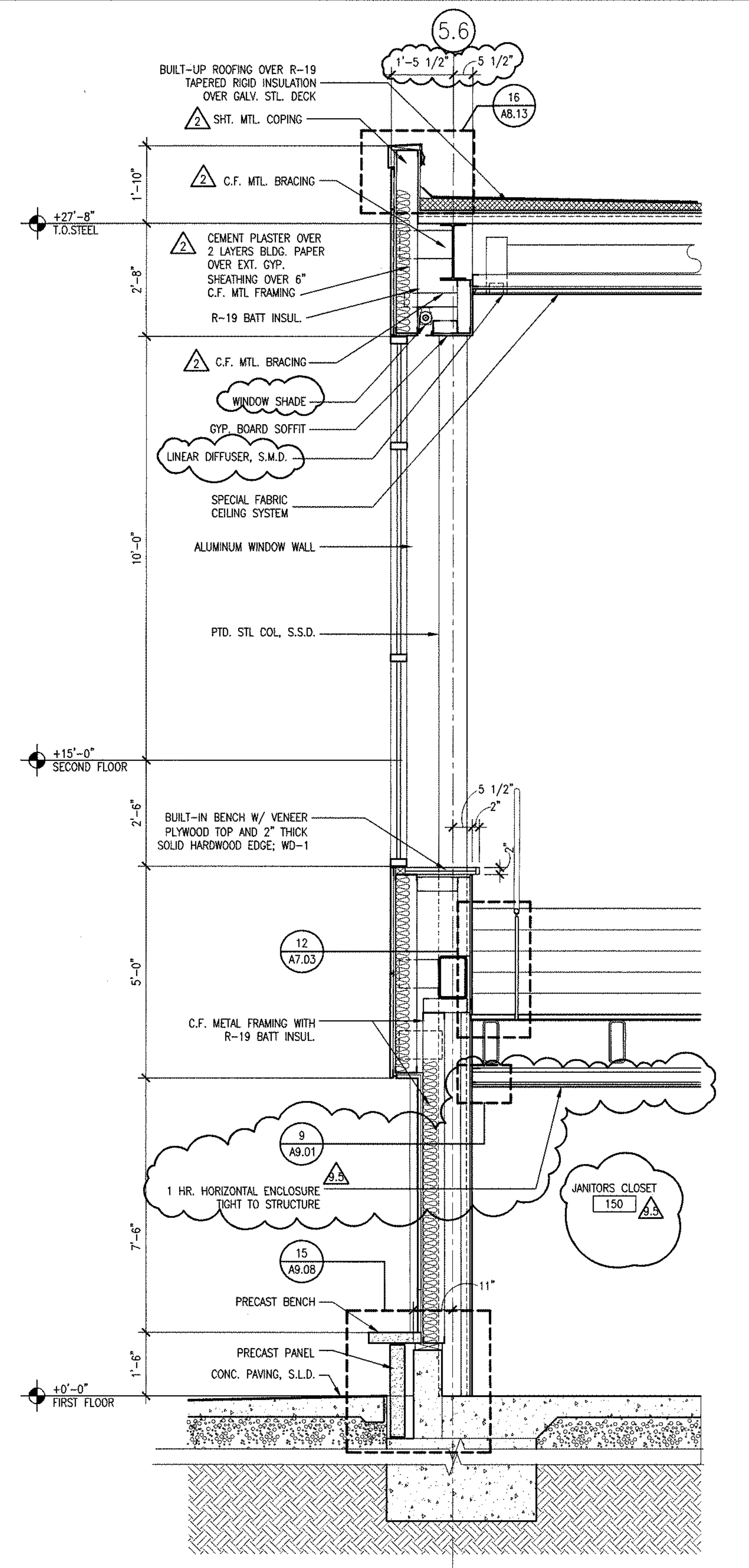
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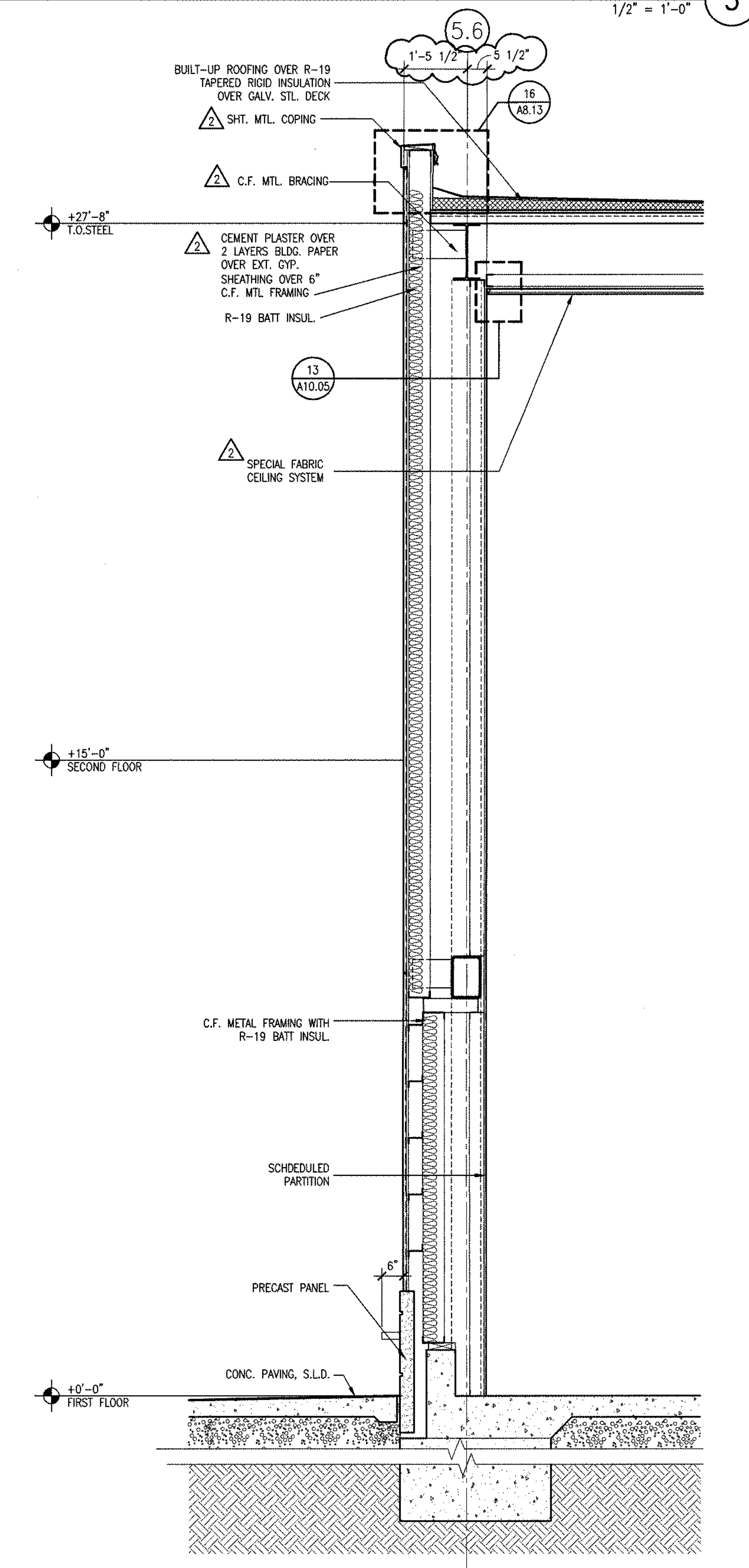
WALL SECTION 4
1/2" = 1'-0"



WALL SECTION 3
1/2" = 1'-0"



WALL SECTION 2
1/2" = 1'-0"



WALL SECTION 1
1/2" = 1'-0"

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REVISIONS

2003.05.30	ADDENDUM NO. 2
2004.01.20	CCD NO. 7.5
2004.01.20	CCD NO. 19

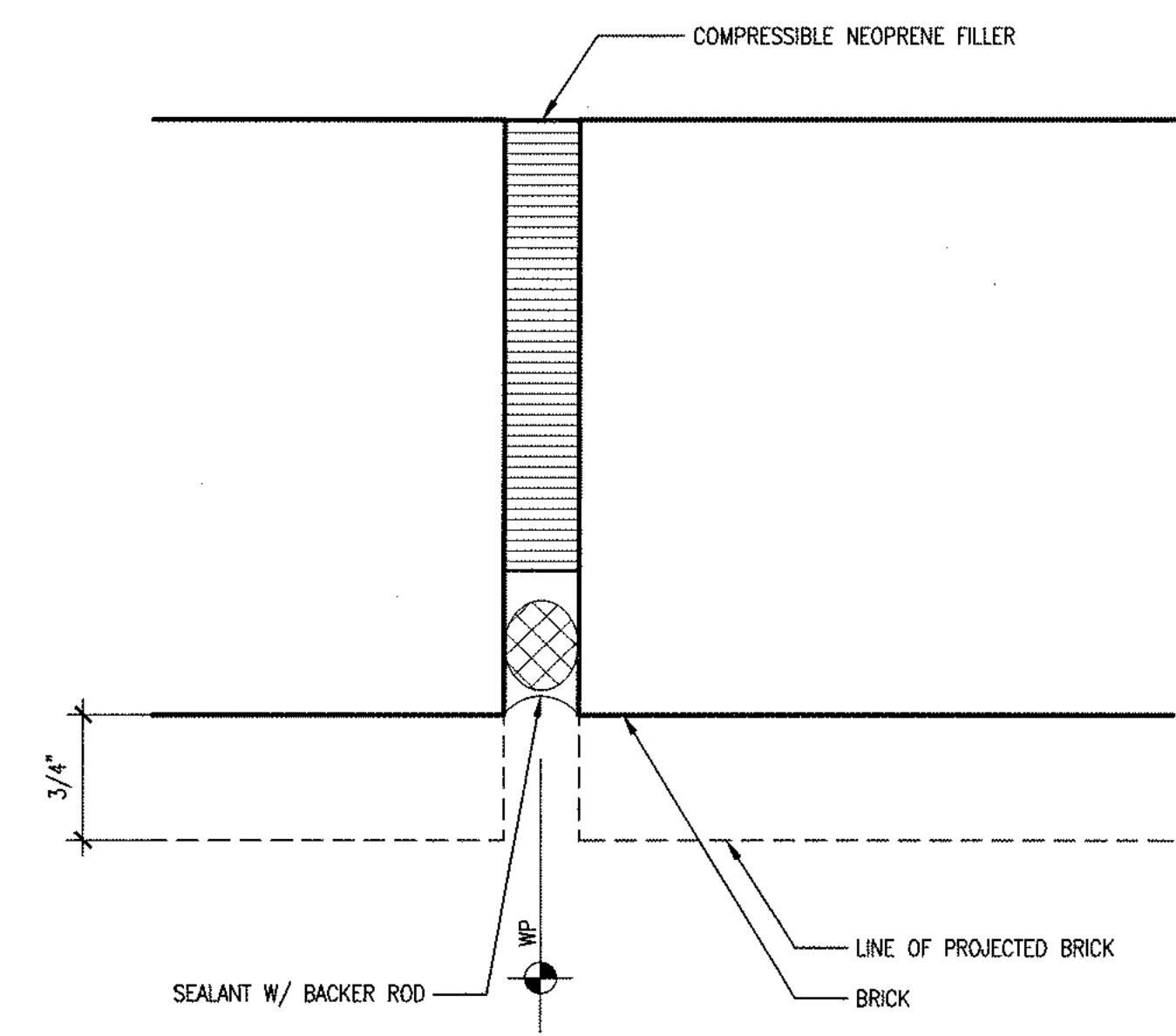
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EXP. 3/31/05
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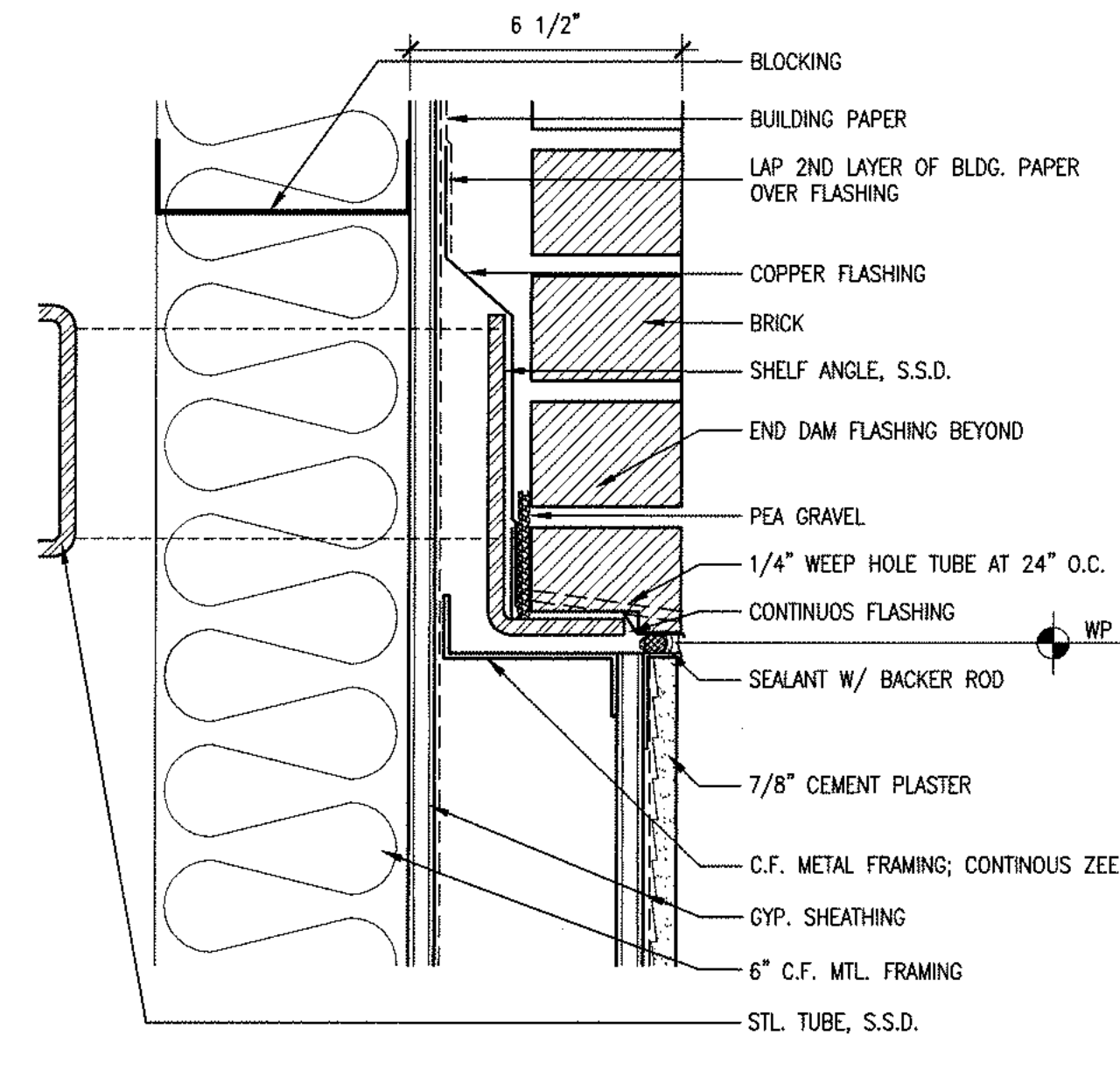
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LIBRARY
WALL SECTIONS

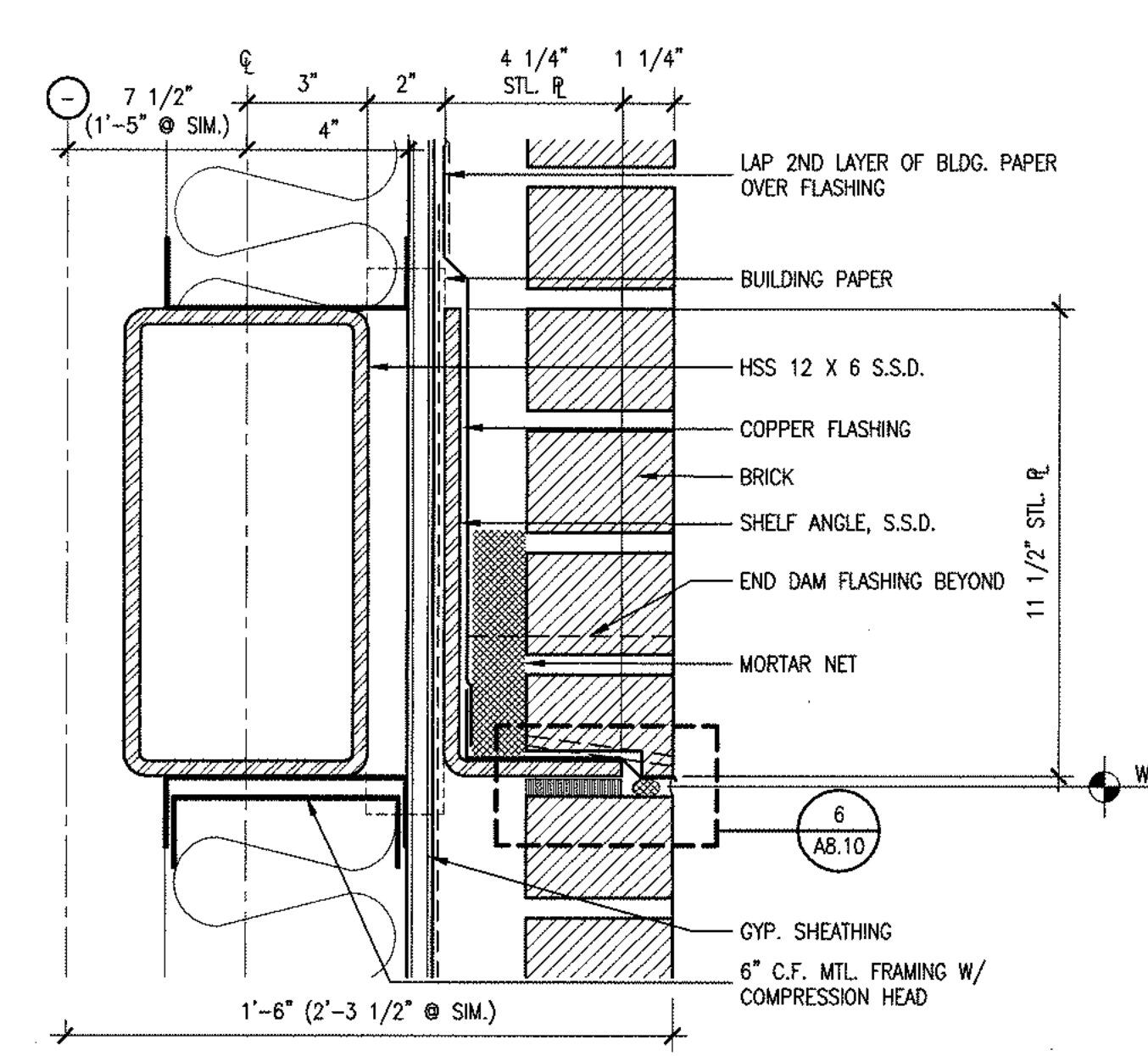
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Date: 2003.04.18
Drawn by: LR
Project number: 20114.00
Sheet number: A8.07



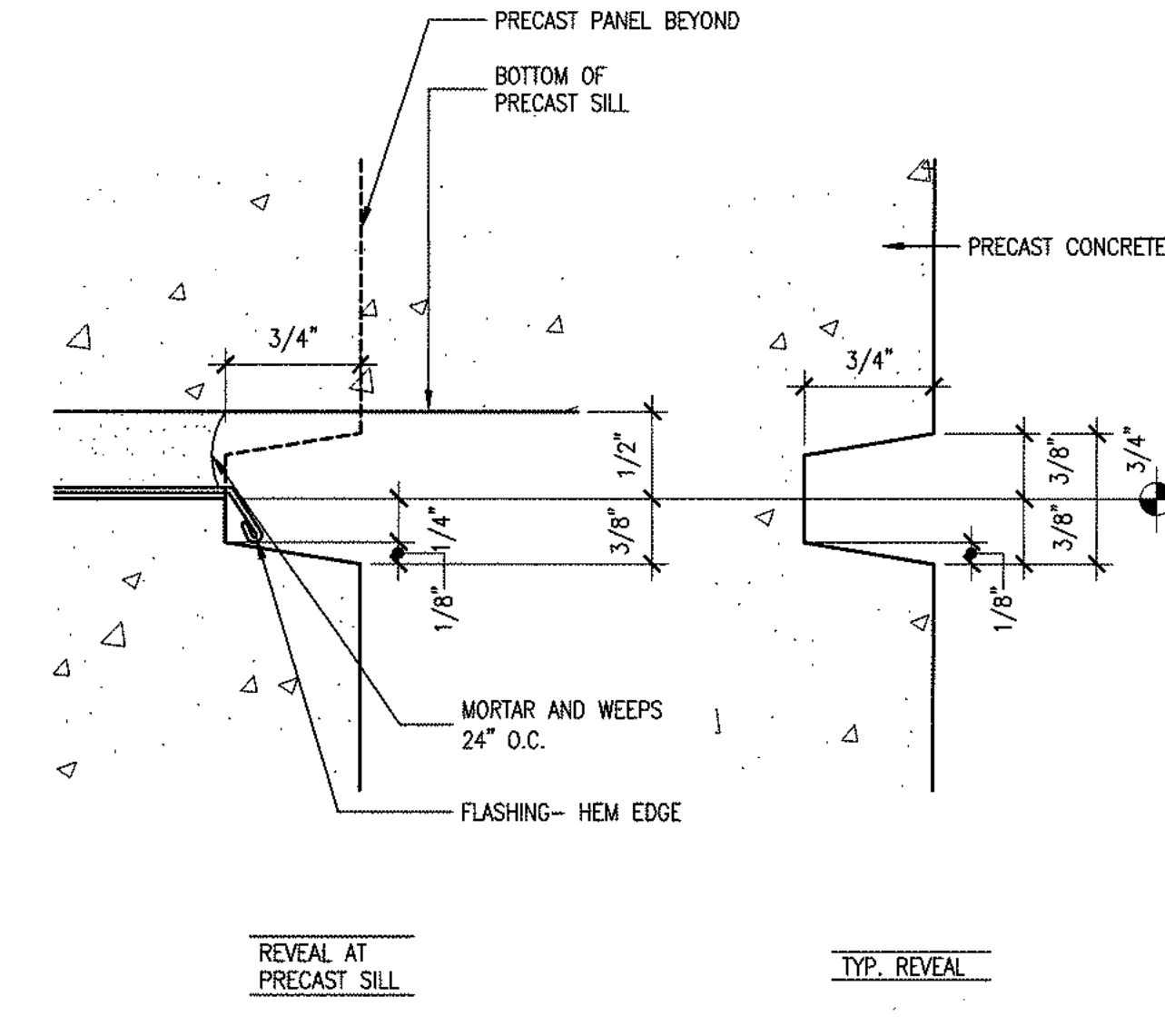
VERTICAL JOINT AT BRICK 20
3" = 1'-0"



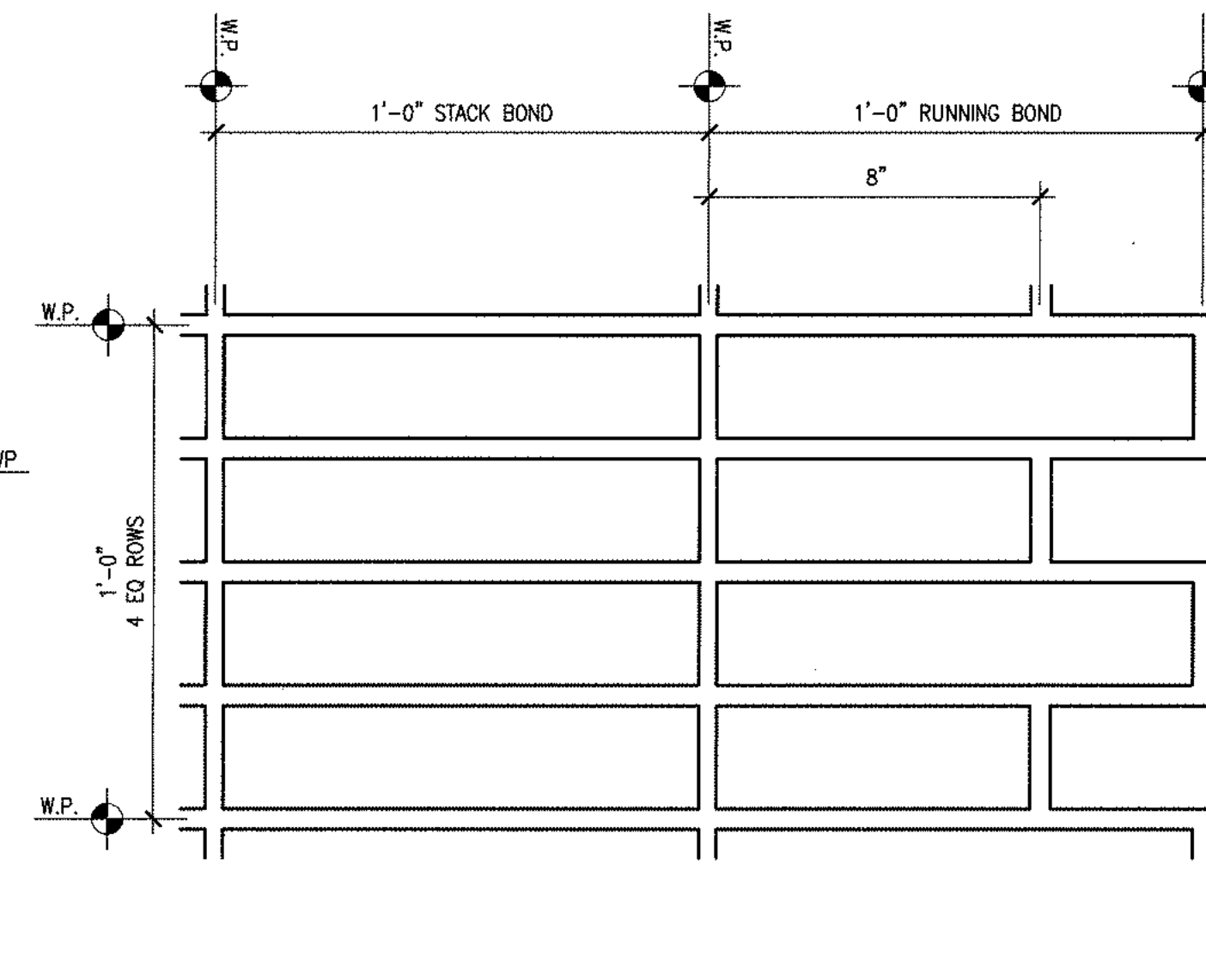
HEAD AT CEMENT PLASTER 16
3" = 1'-0"



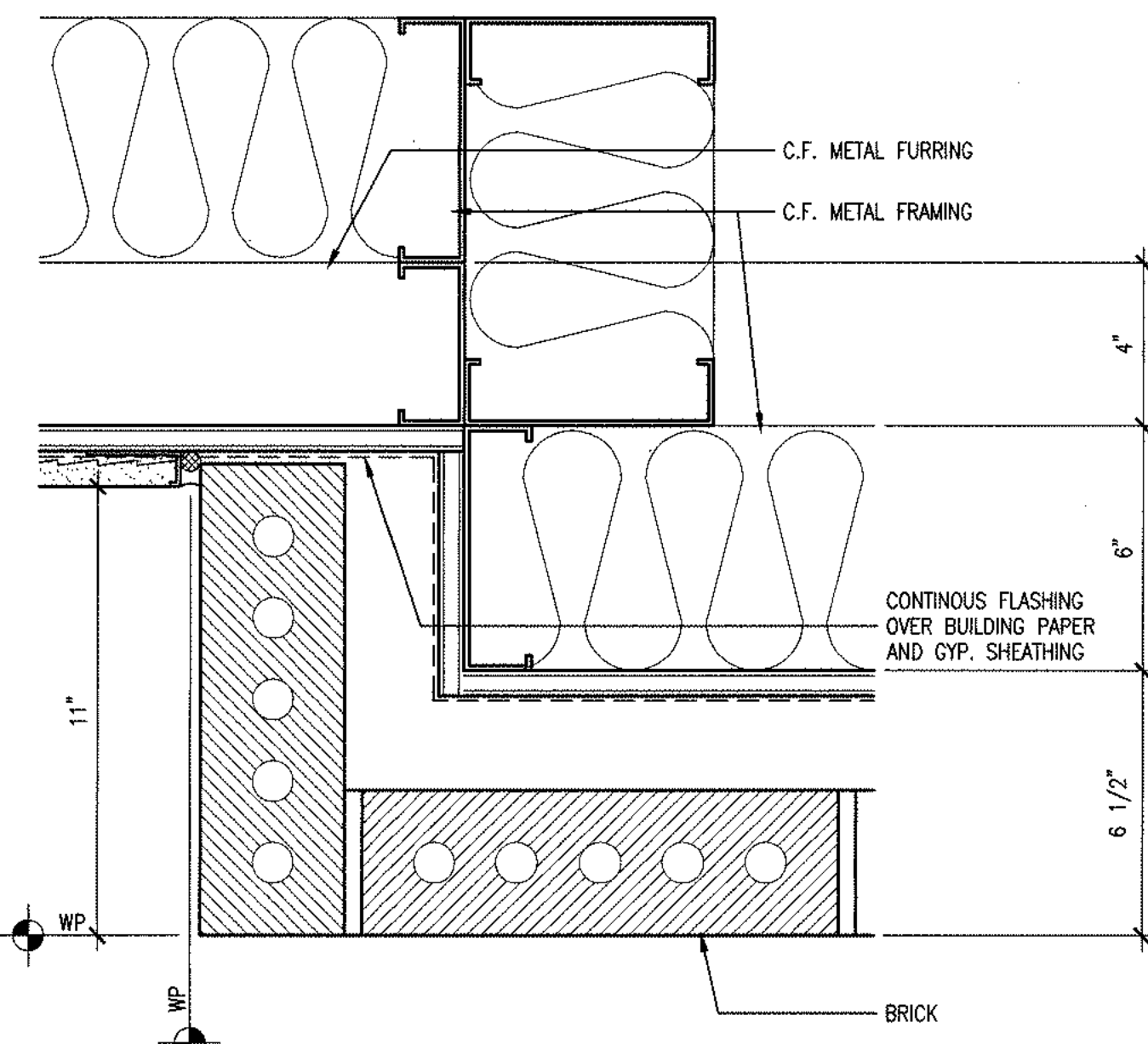
HORIZONTAL EXPANSION JOINT 12
3" = 1'-0"



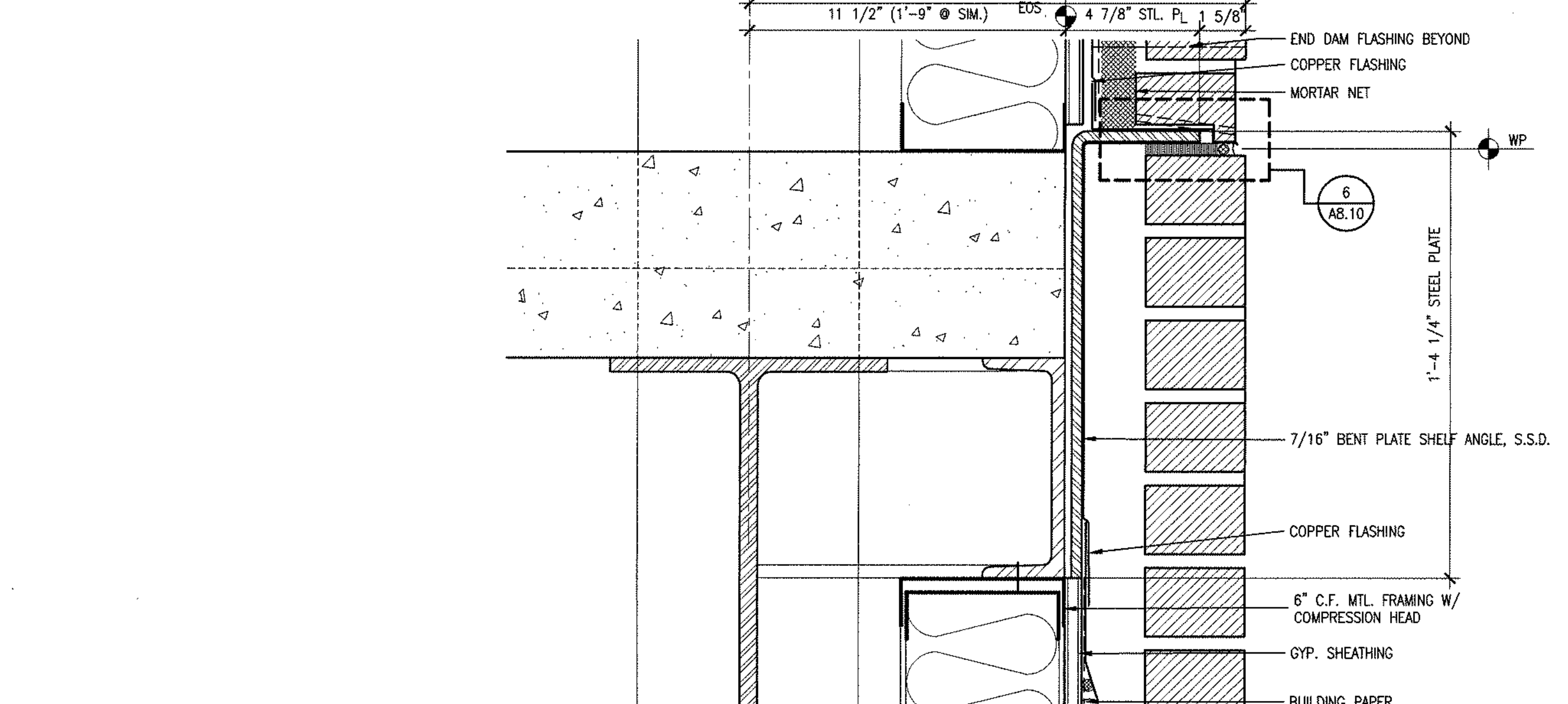
PRECAST CONCRETE REVEAL 8
12" = 1'-0"



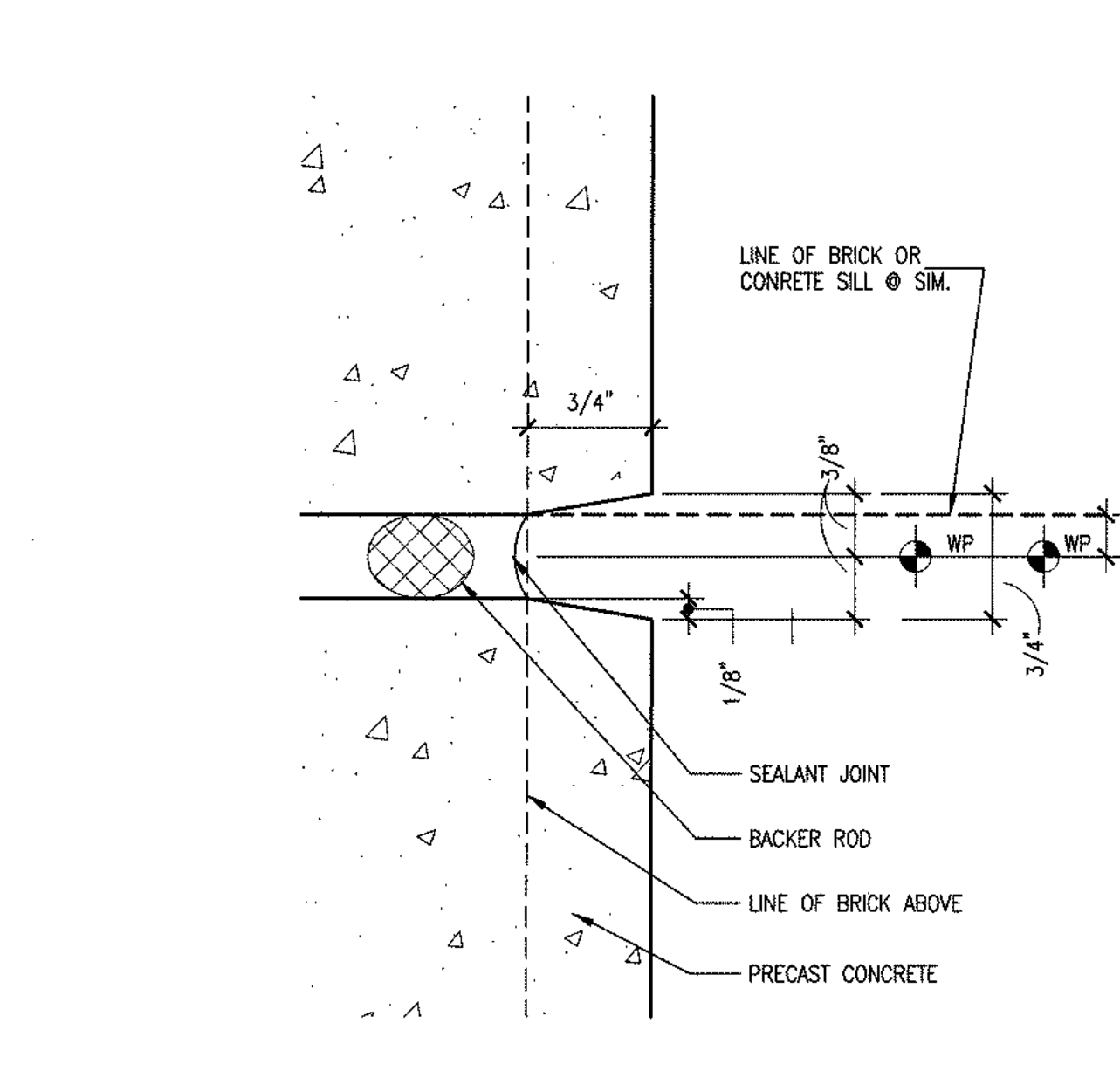
BRICK TRANSITION- STACK BOND TO RUNNING BOND 4
3" = 1'-0"



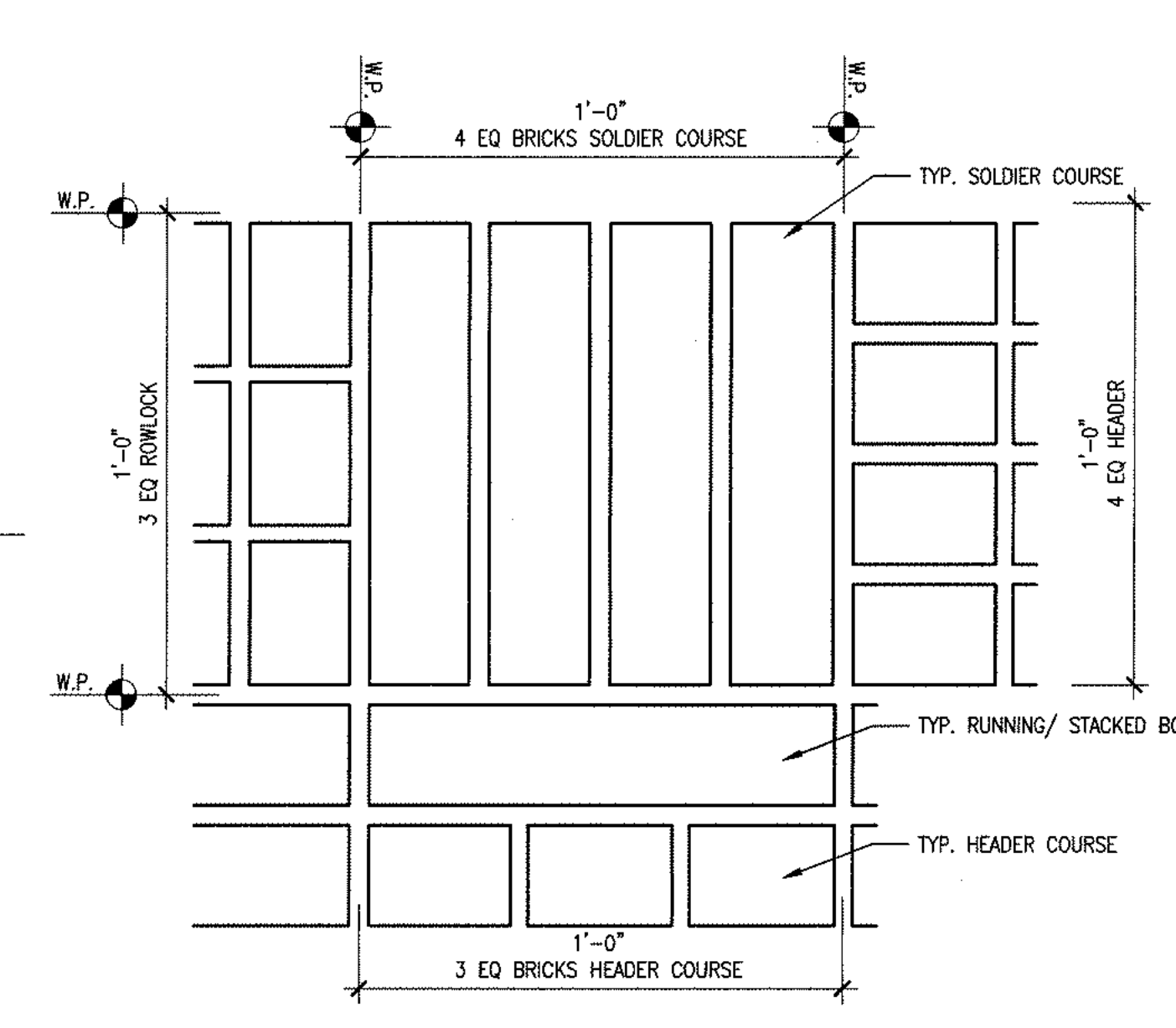
PLAN DETAIL: BRICK AT CEMENT PLASTER 19
3" = 1'-0"



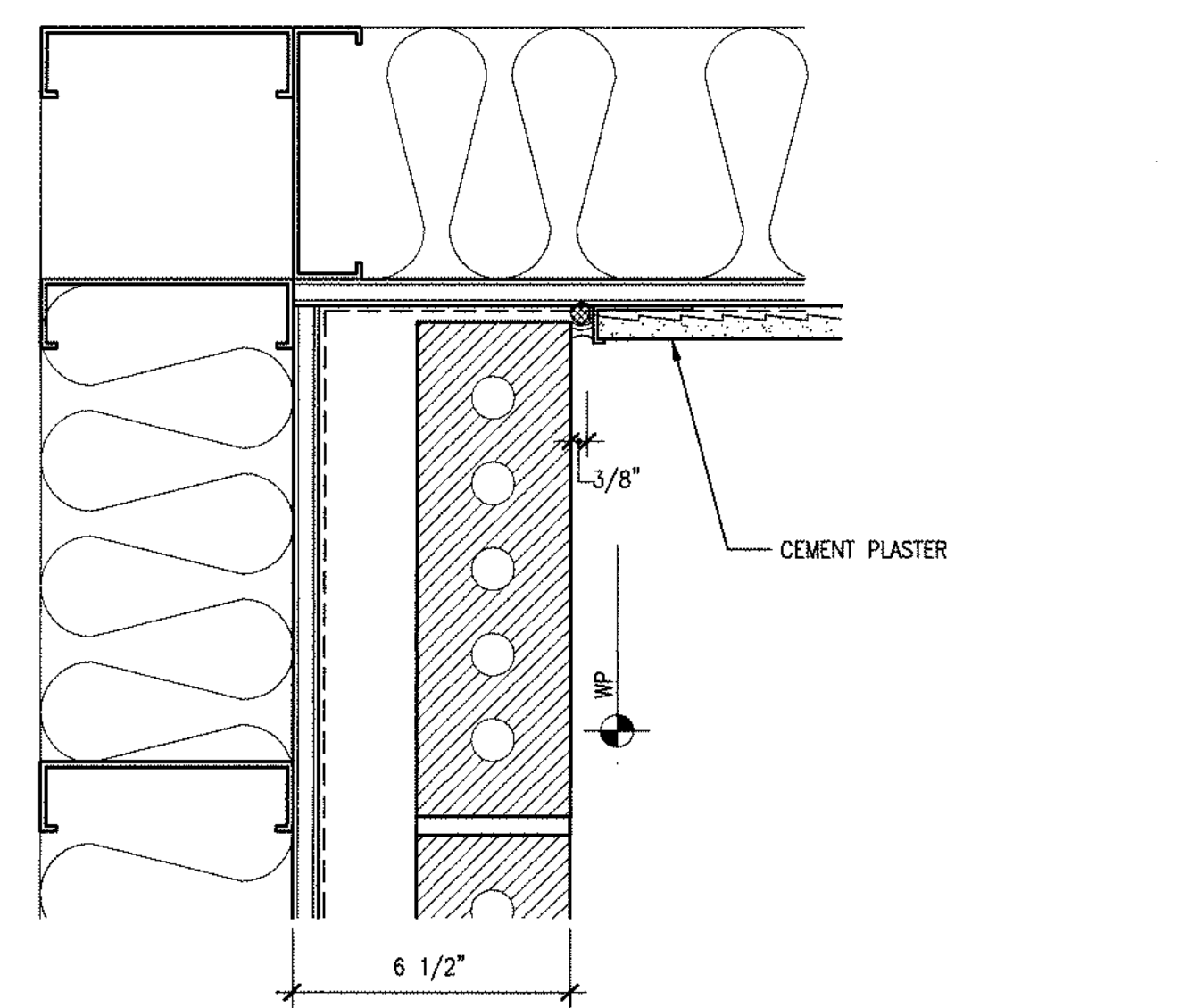
HORIZONTAL JOINT AT SECOND FLOOR 11
3" = 1'-0"



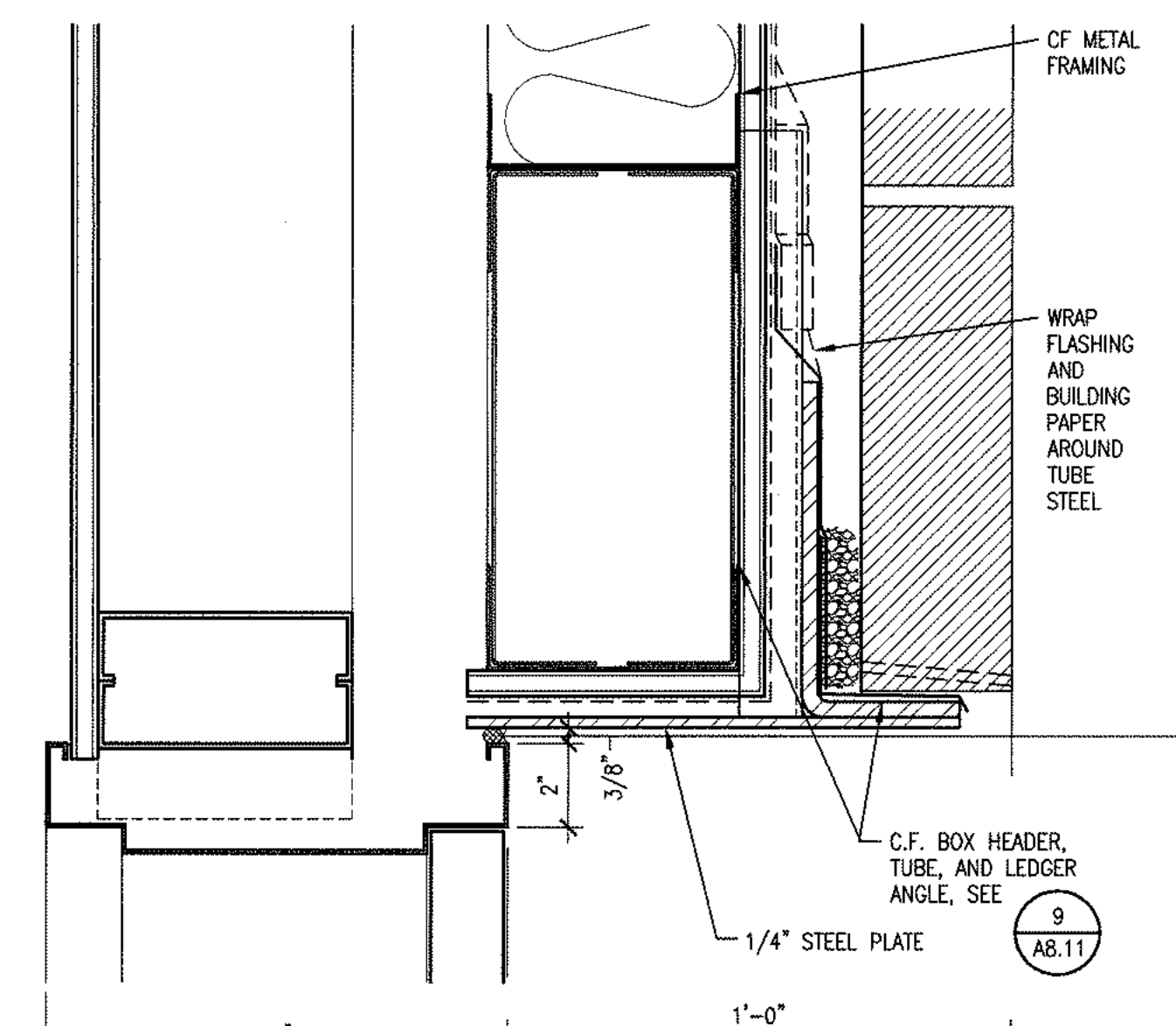
PRECAST CONCRETE JOINT 7
12" = 1'-0"



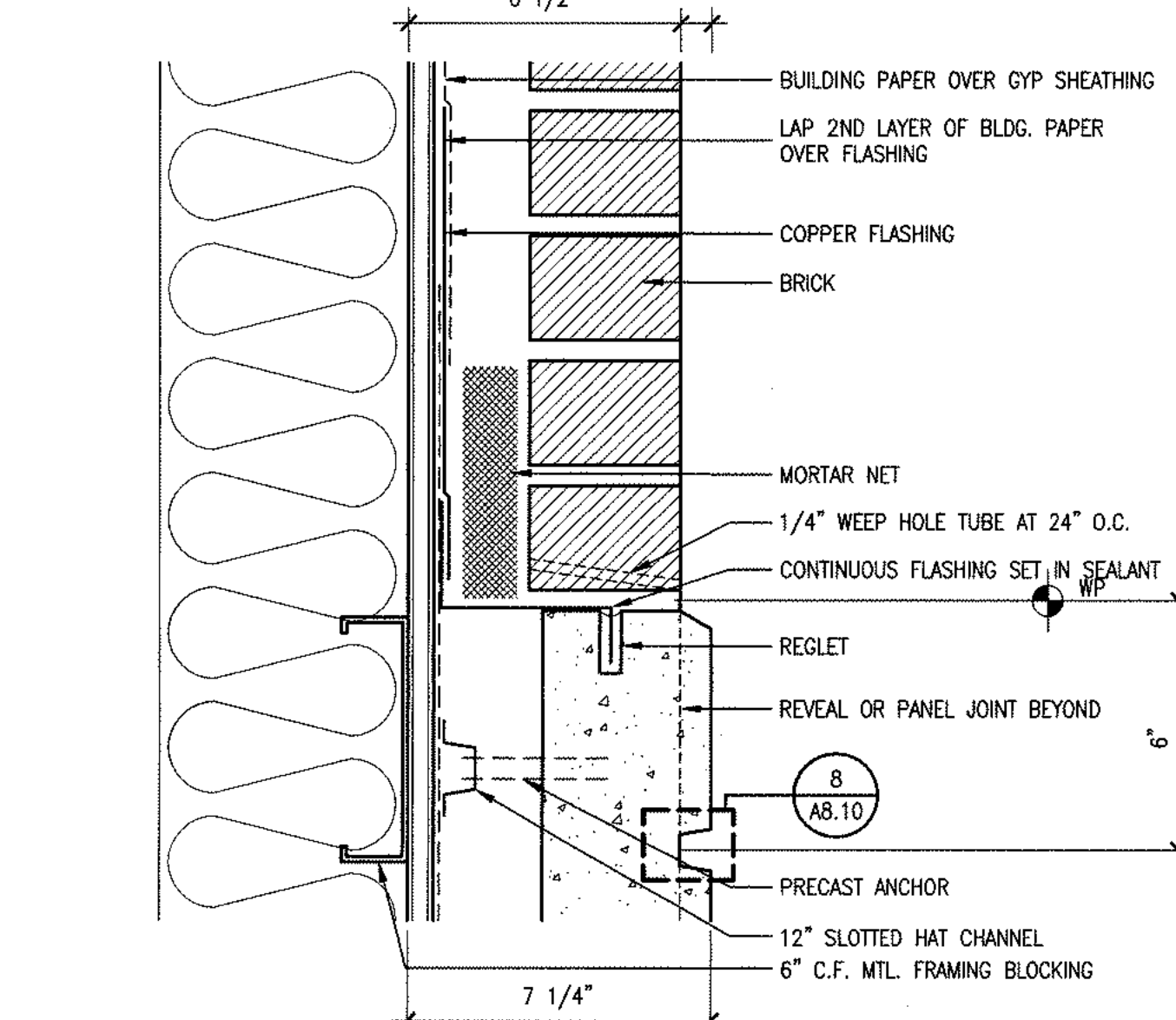
HORIZONTAL BRICK TRANSITIONS 3
3" = 1'-0"



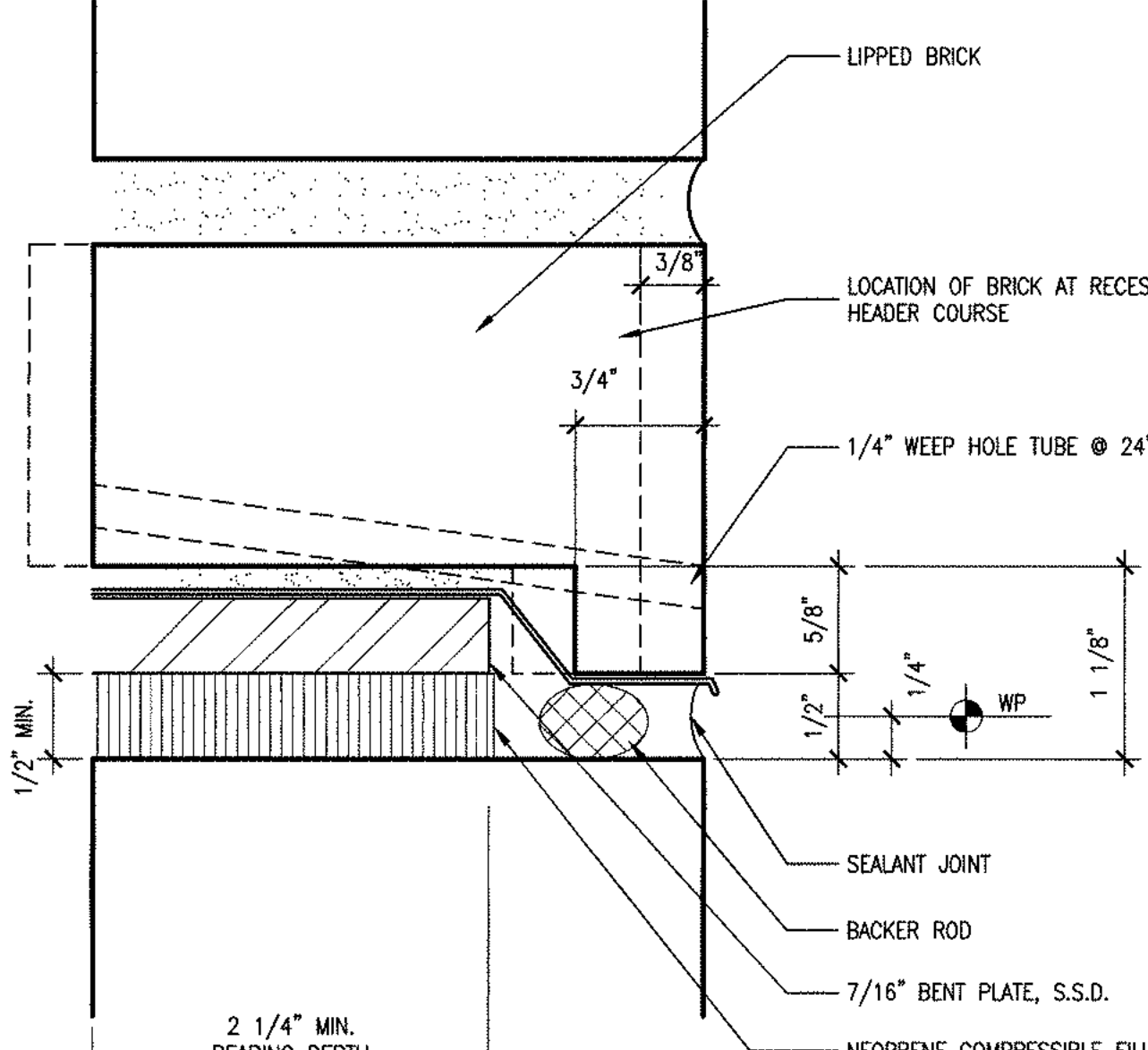
PLAN DETAIL: BRICK AT CEMENT PLASTER CORNER 18
3" = 1'-0"



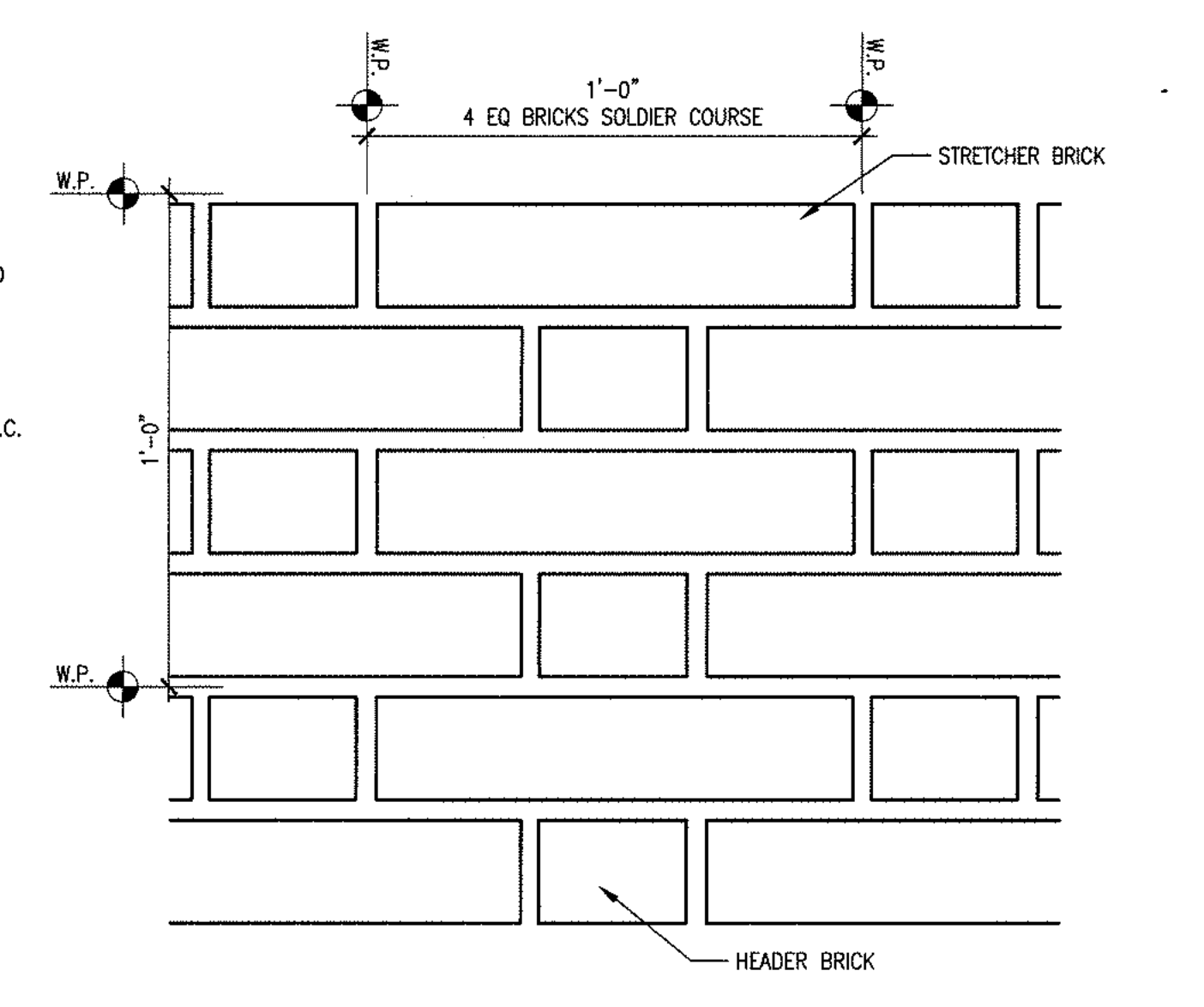
HM HEAD AT BRICK 14
3" = 1'-0"



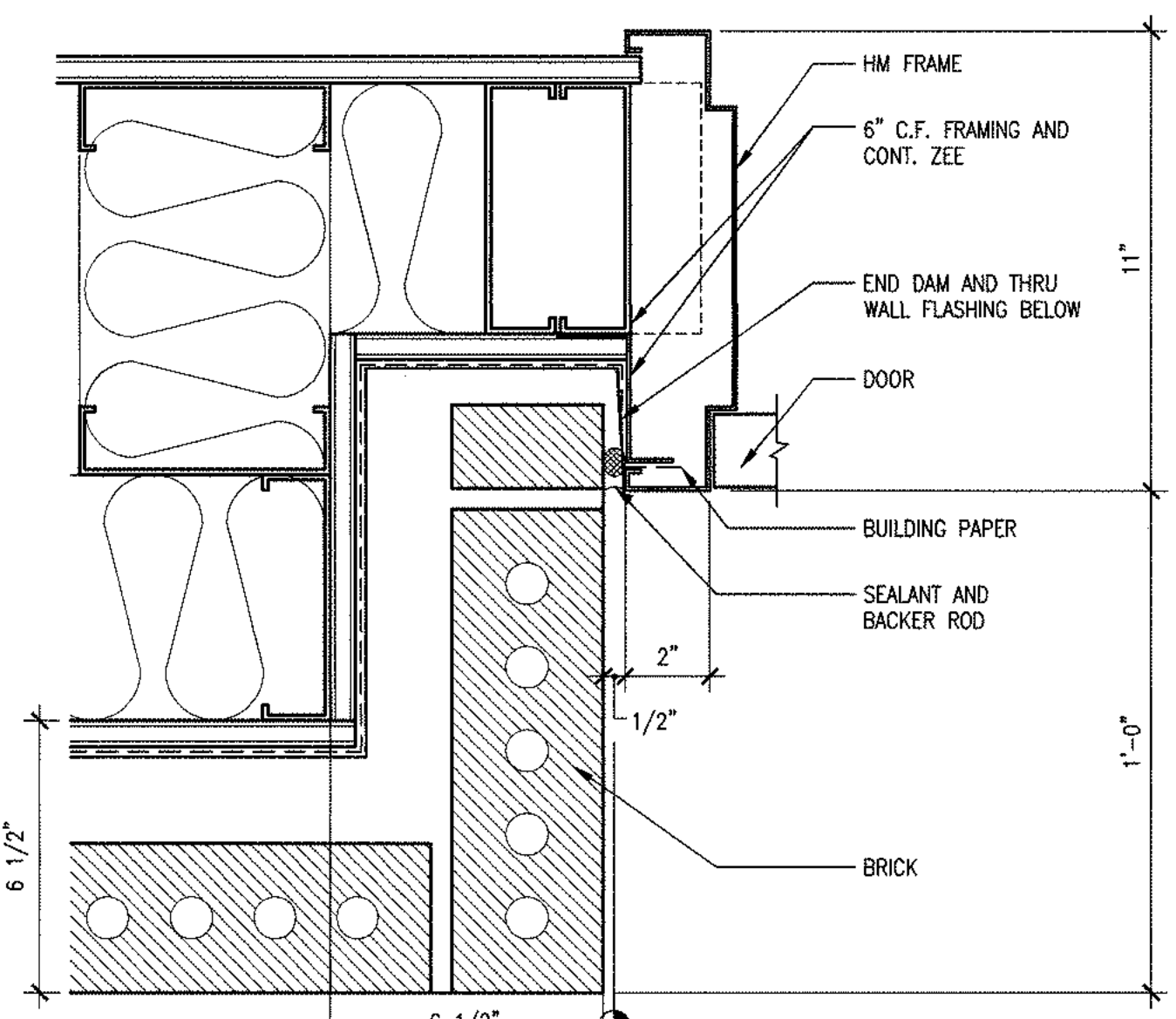
BRICK AT PRECAST CONCRETE 10
3" = 1'-0"



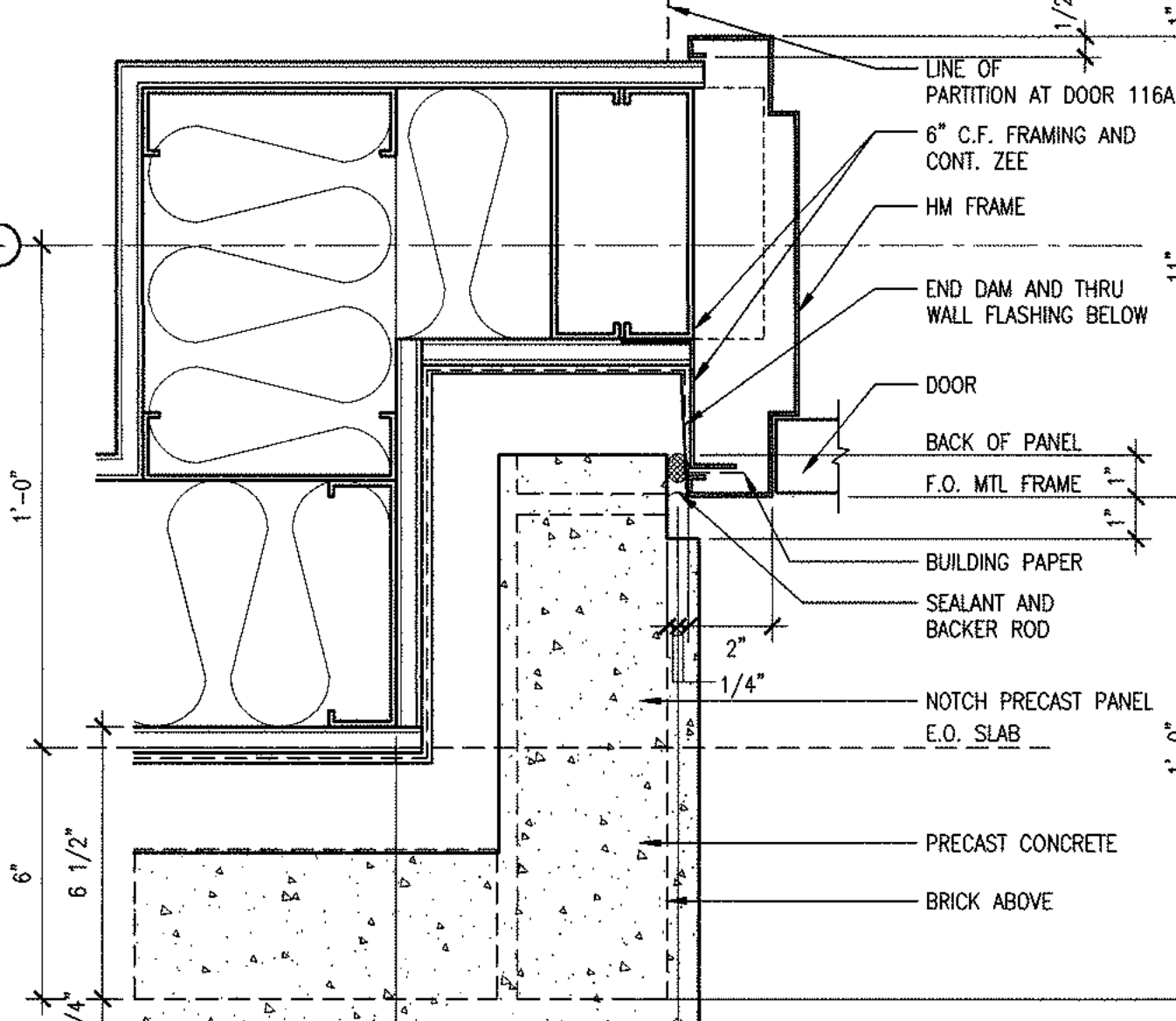
BRICK EXPANSION JOINT 6
12" = 1'-0"



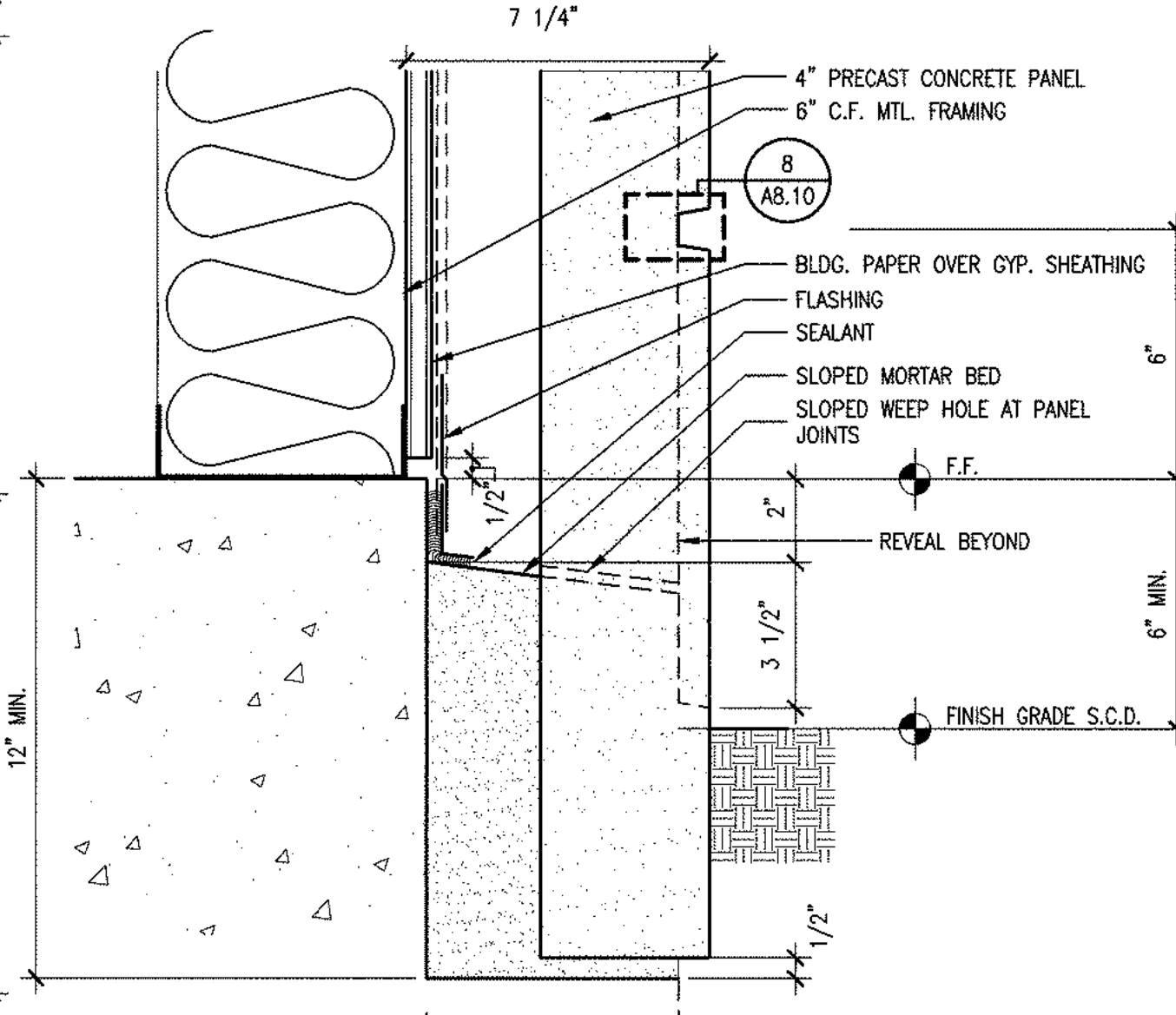
FLEMISH BOND BRICK PATTERN 2
3" = 1'-0"



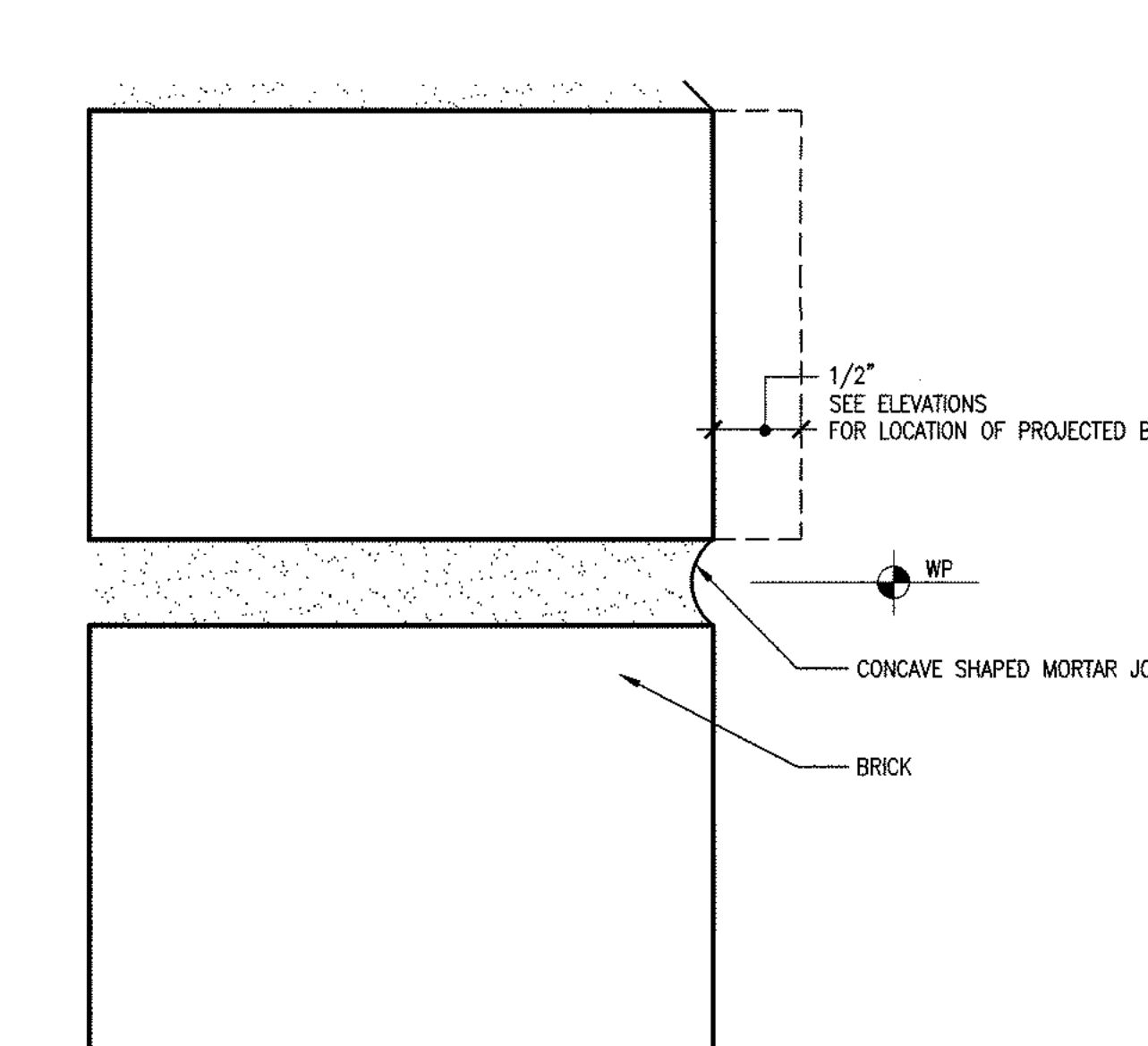
HM JAMB AT BRICK 17
3" = 1'-0"



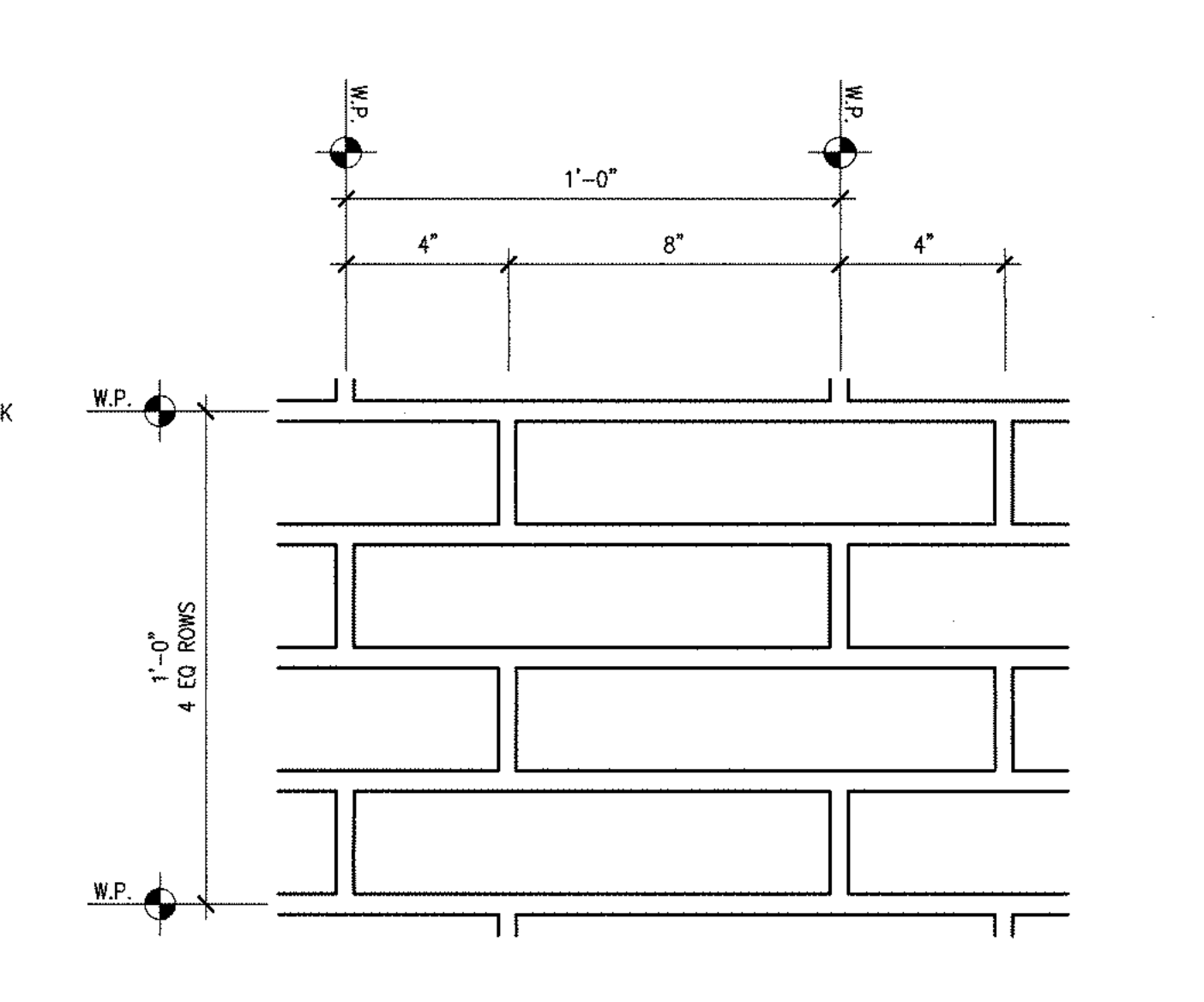
HM JAMB AT PRECAST CONCRETE BASE 13
3" = 1'-0"



PRECAST BASE AT GRADE 9
3" = 1'-0"



BRICK MORTAR JOINT 5
12" = 1'-0"



1/3 RUNNING BOND 1
3" = 1'-0"

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10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
580 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Eisesser Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

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405 Howard Street
Suite 500
San Francisco, CA 94105
415 398 3833 T
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370 Brannan Street
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stamp

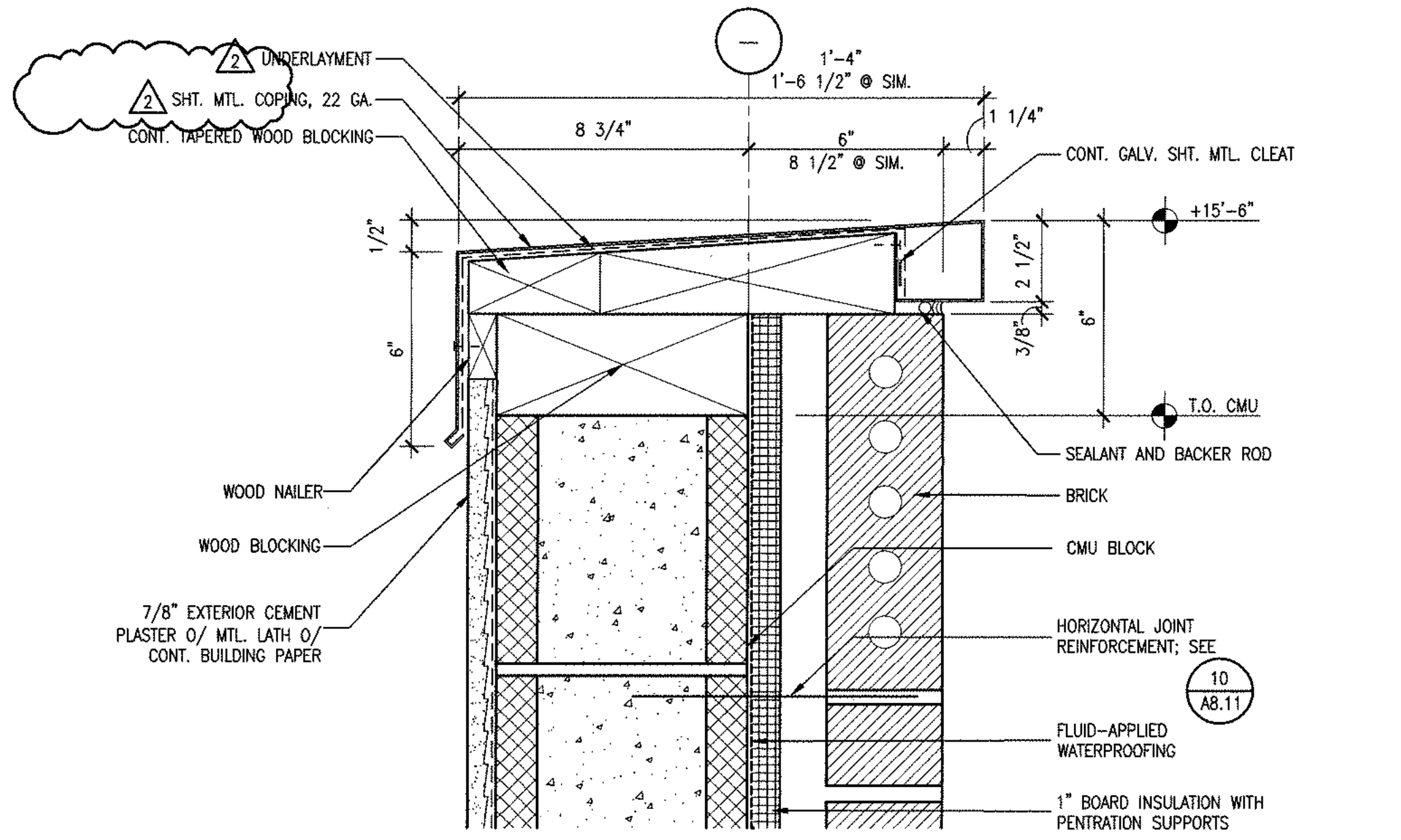
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LINK & SQUIB
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

BID SET

EXTERIOR DETAILS

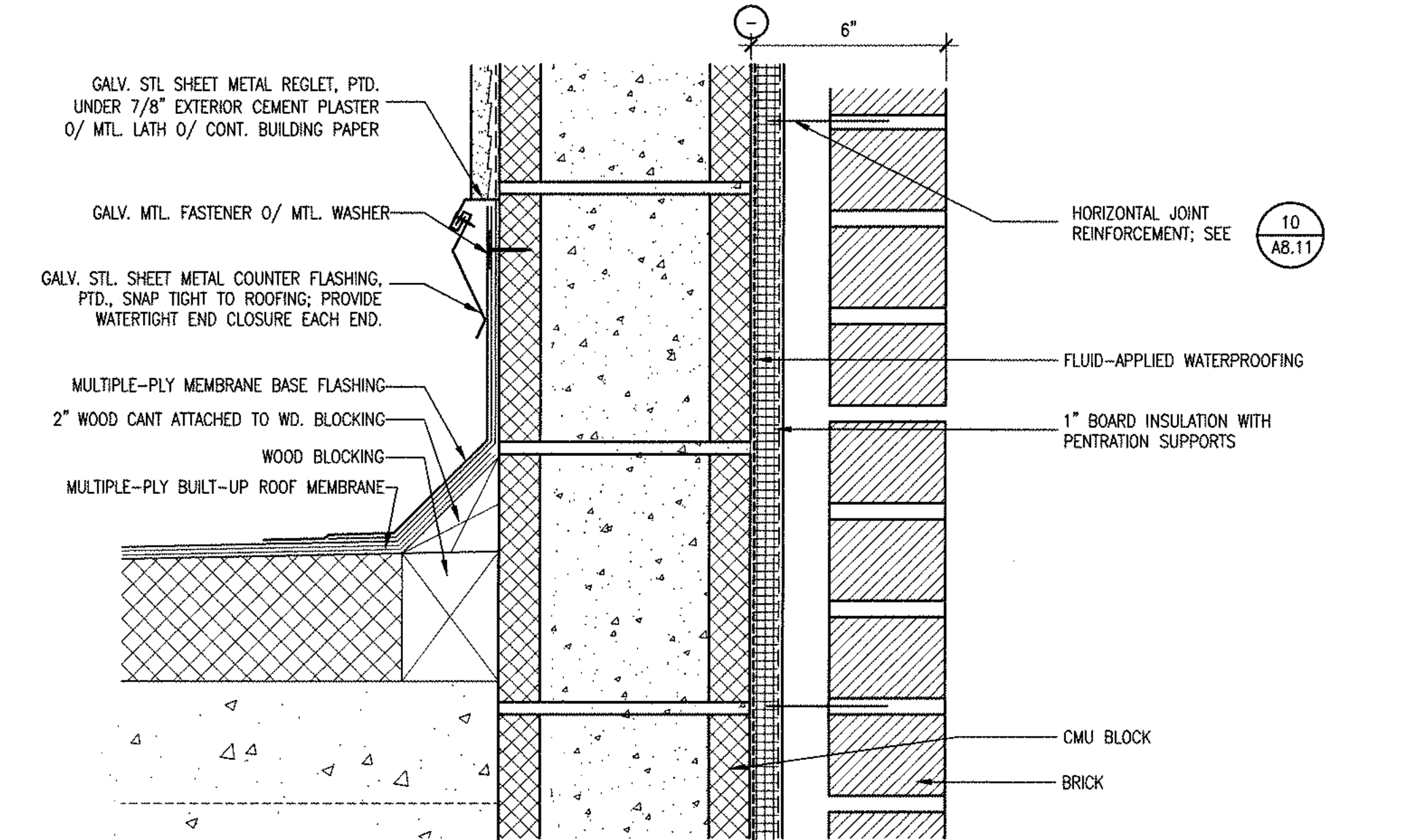
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drawn by: project number: 20114.00
sheet number: 30

A8.10



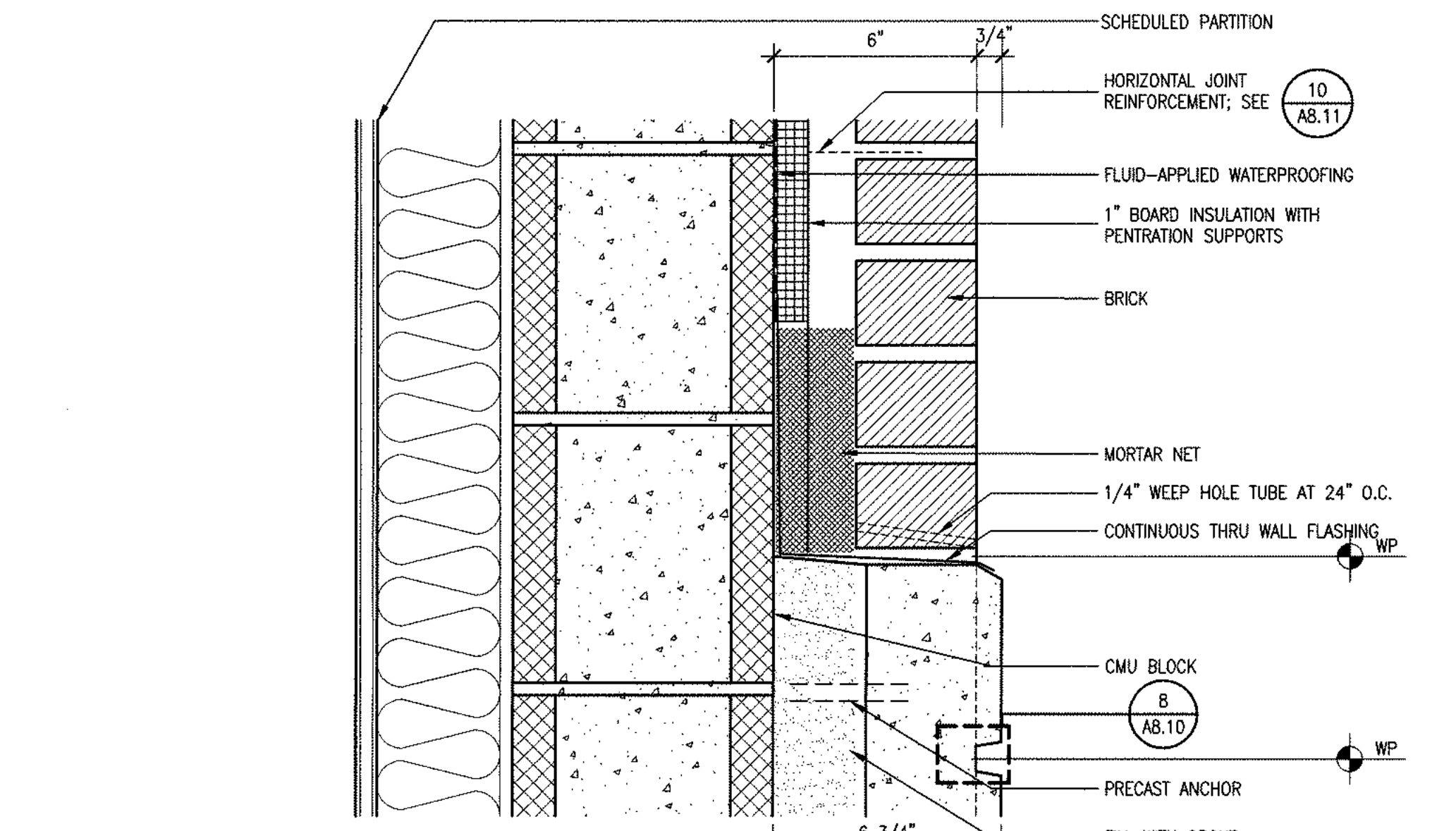
CMU & BRICK PARAPET WALL COPING 16
3" = 1'-0"

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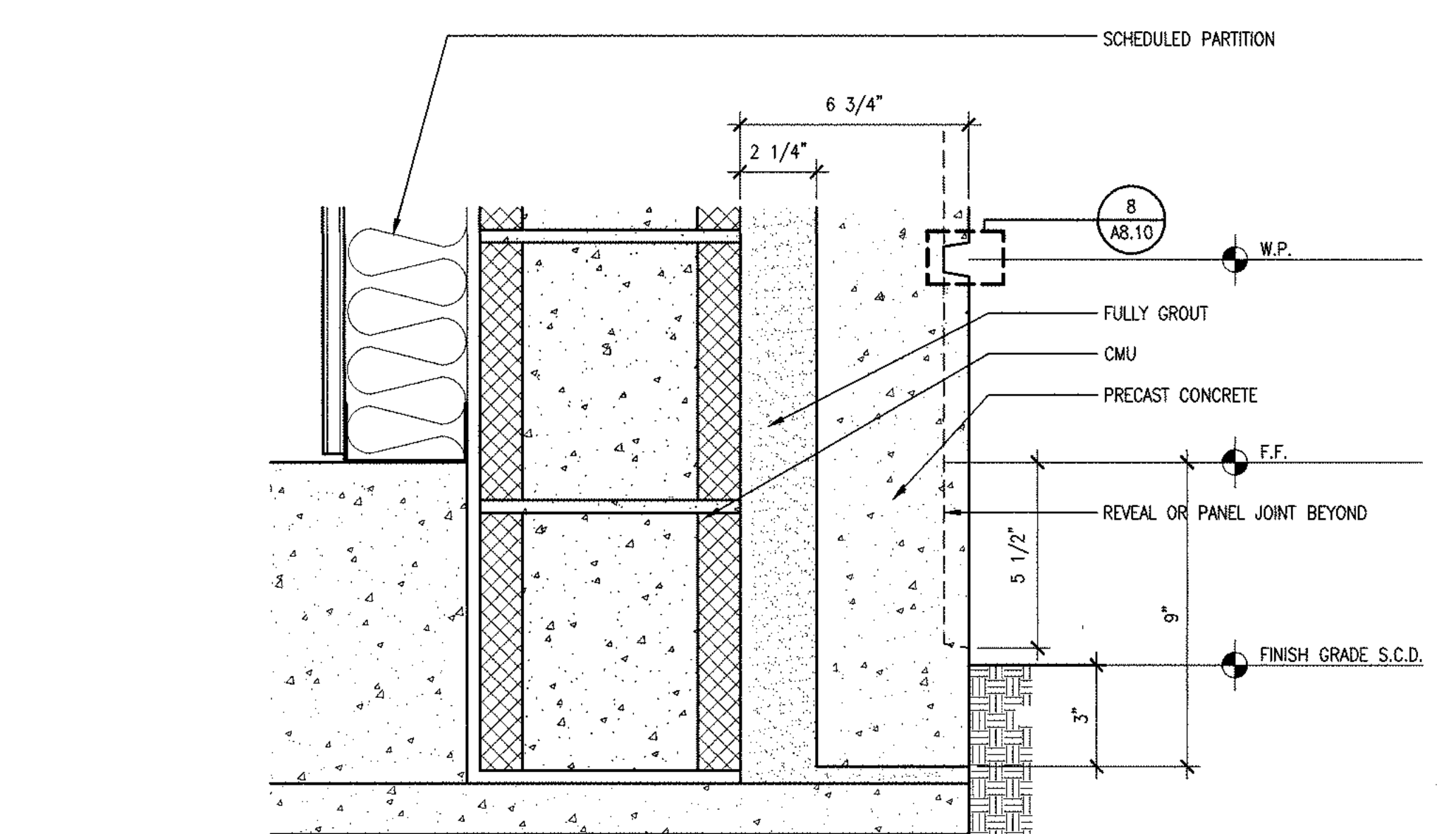
CMU & BRICK AT CONCRETE DECK 15
3" = 1'-0"

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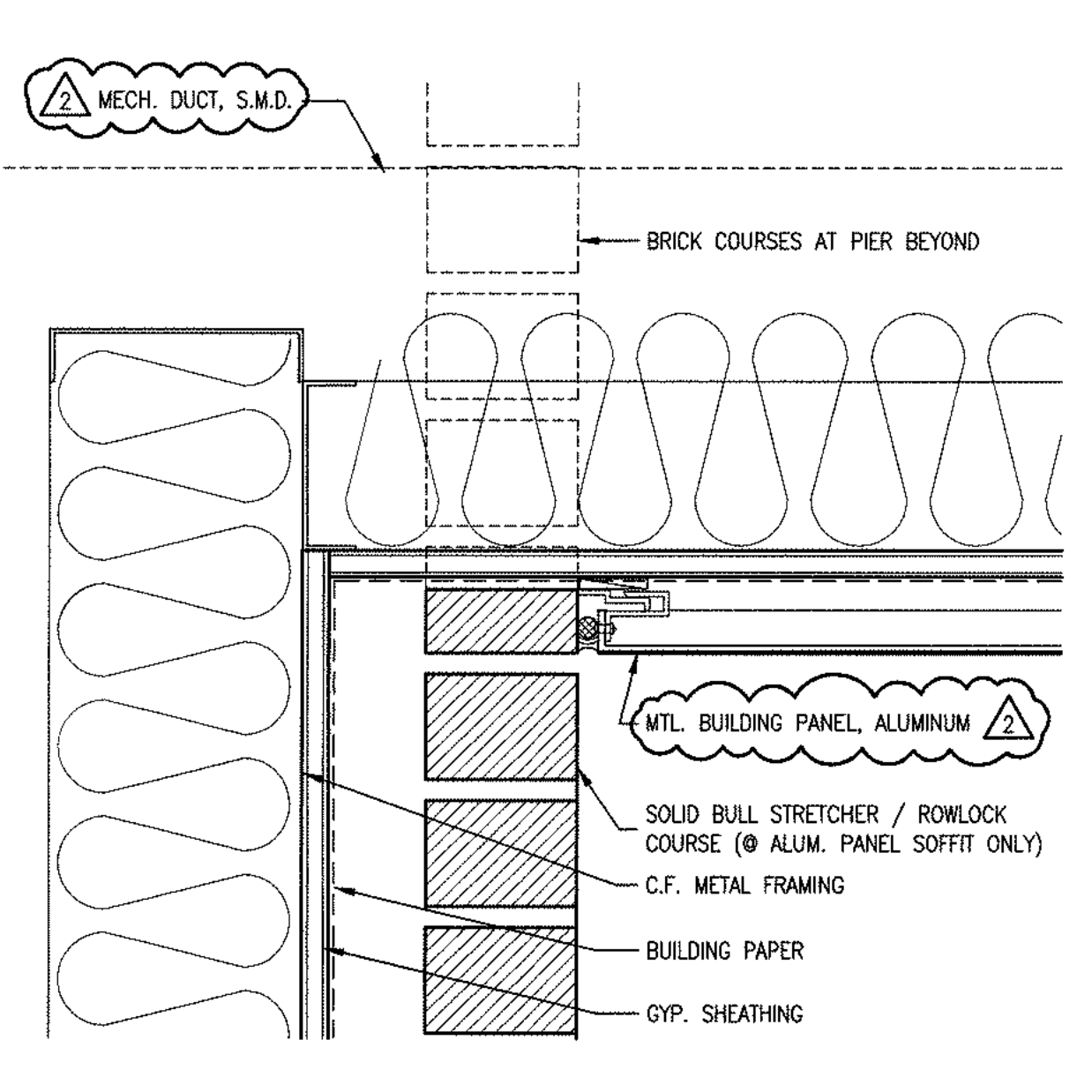
CMU & BRICK AT PRECAST CONCRETE BASE 14
3" = 1'-0"

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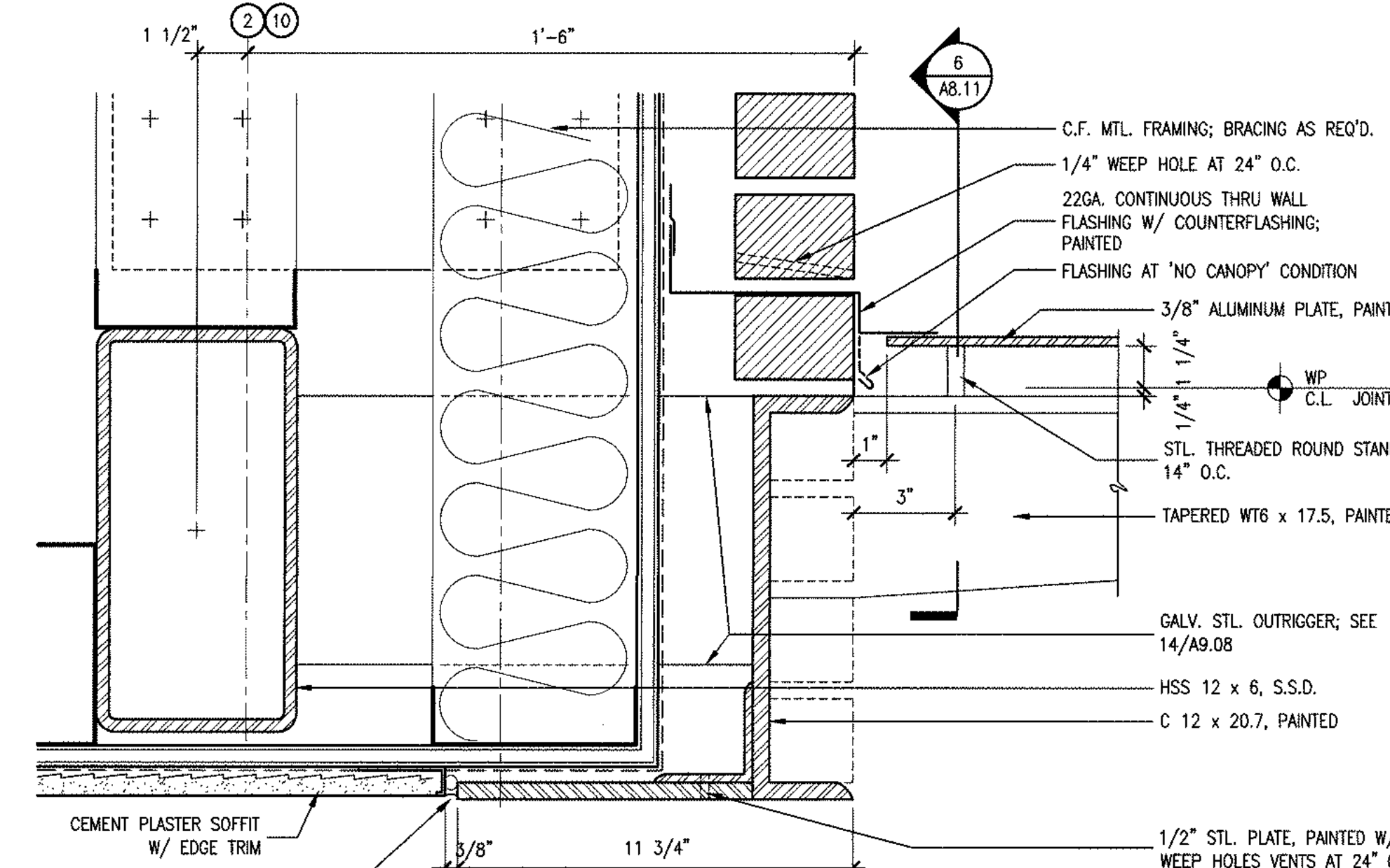
CMU AND PRECAST BASE AT GRADE 13
3" = 1'-0"

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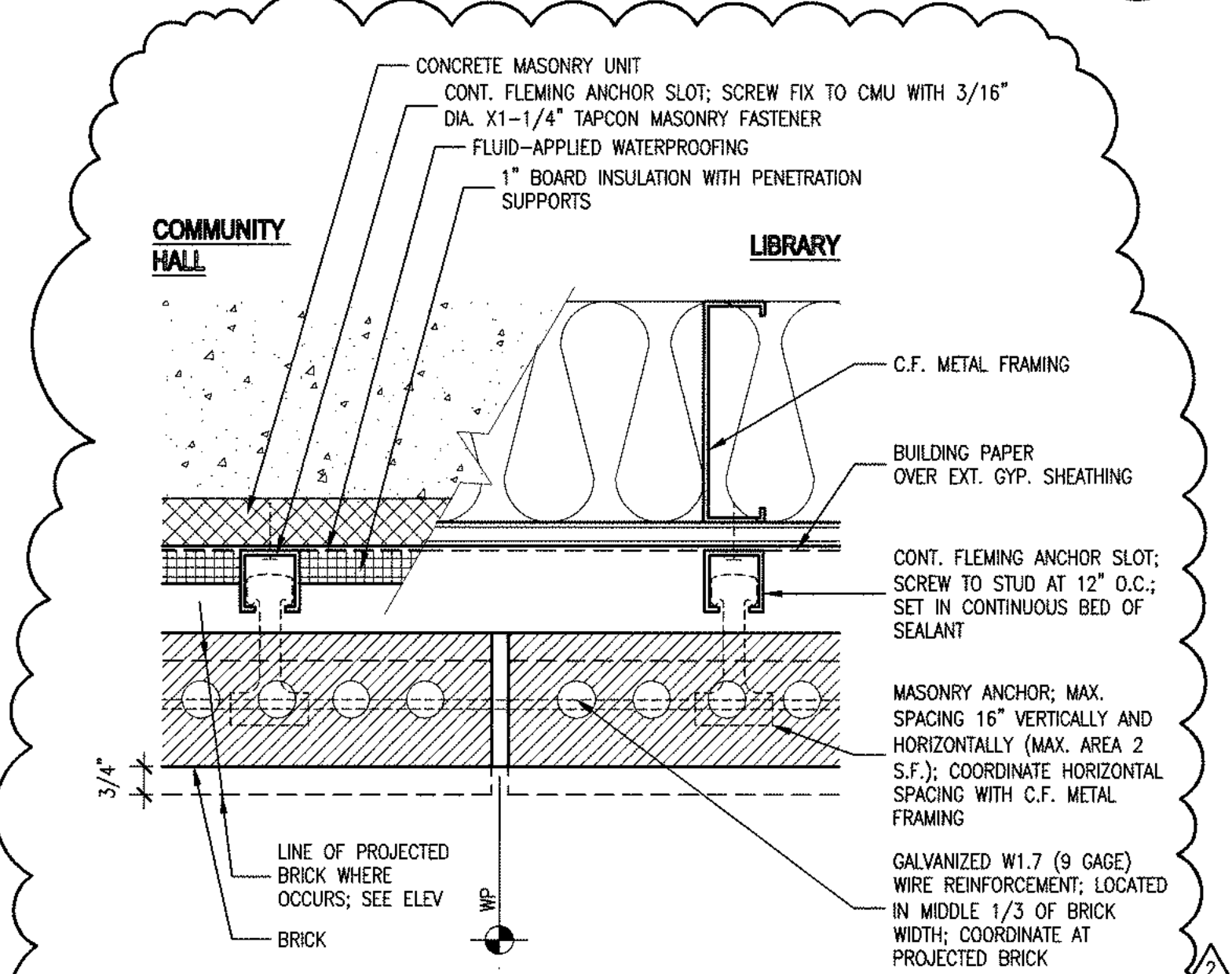
BRICK AT ALUM. COMPOSITE PANEL SOFFIT 12
3" = 1'-0"

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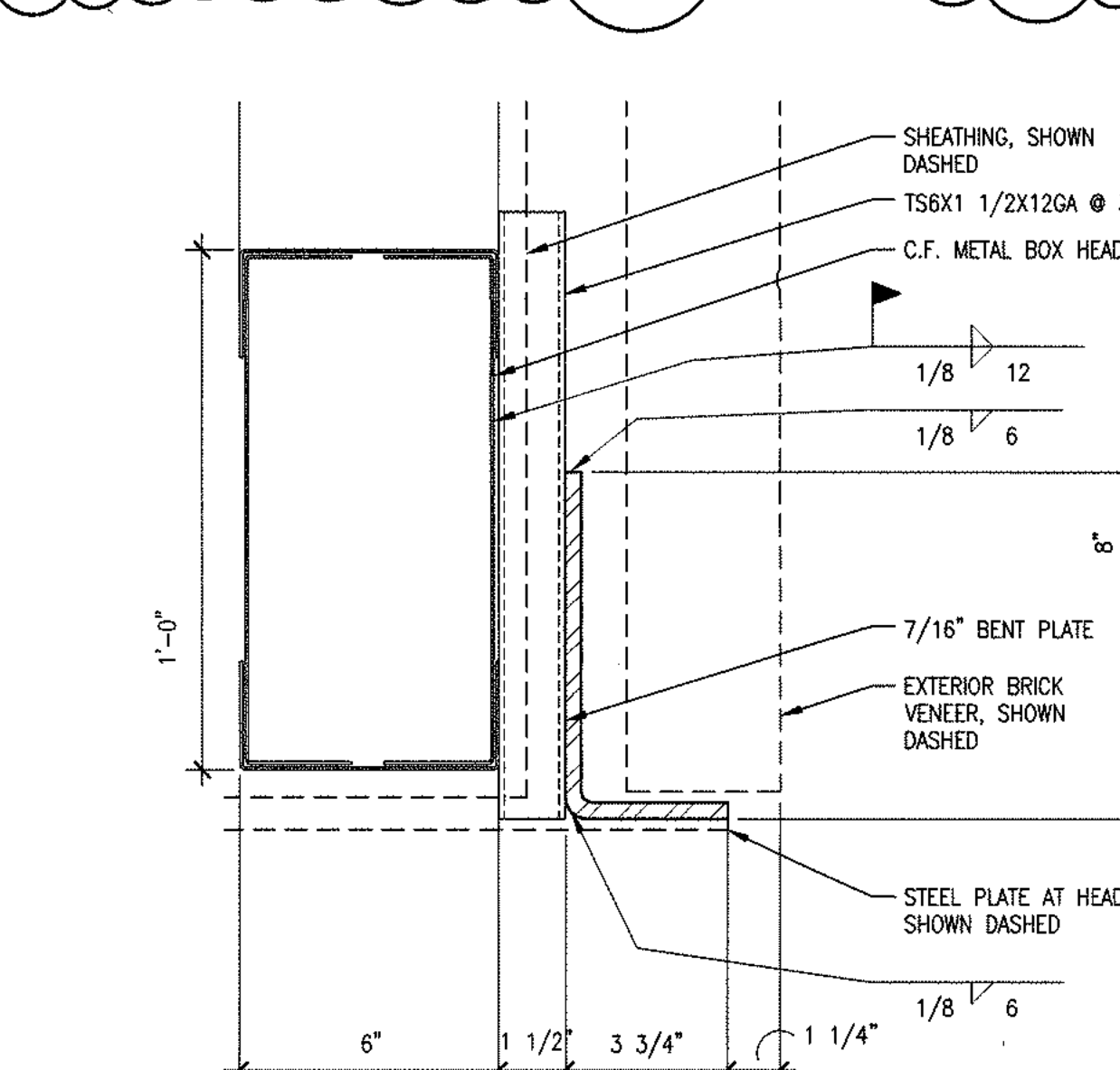
SOFFIT AT STL. CHANNEL 11
3" = 1'-0"

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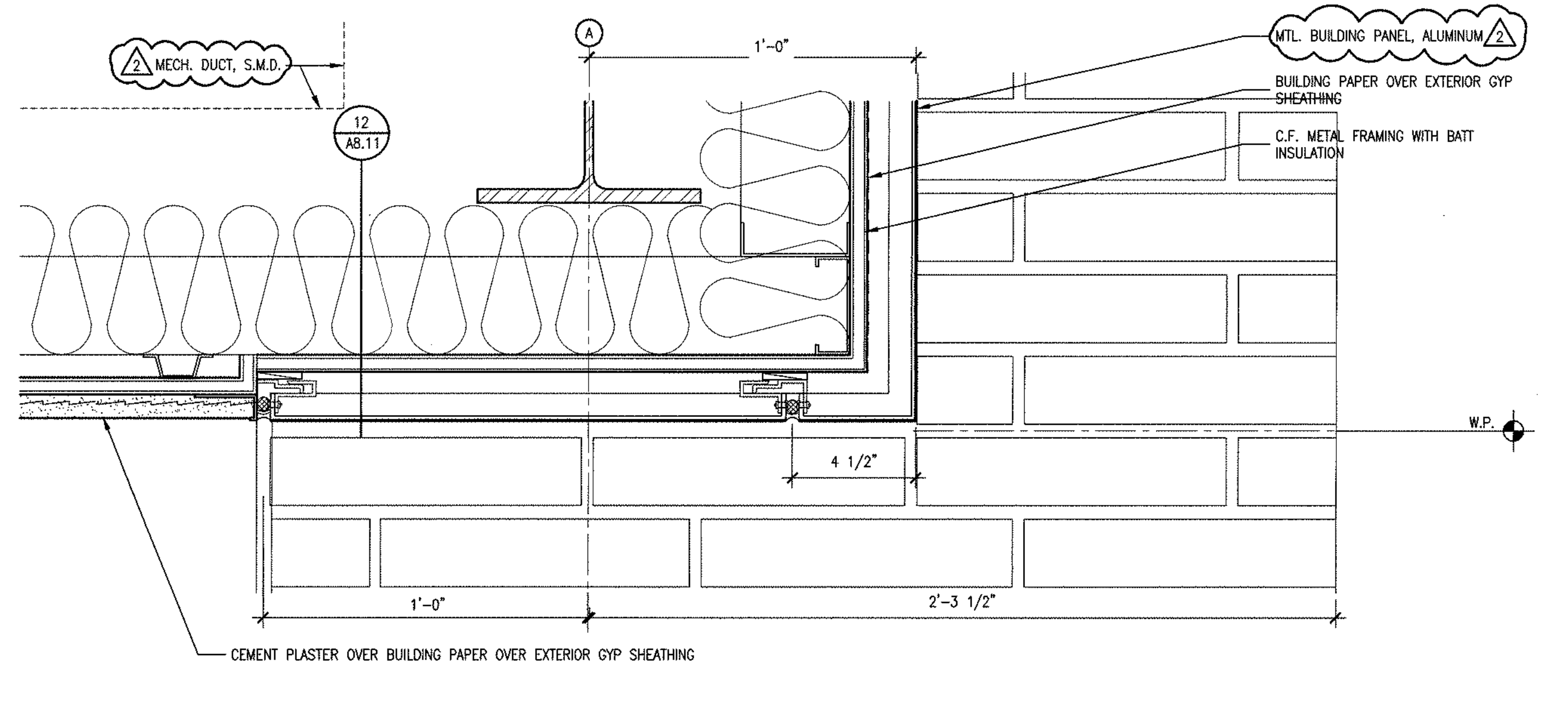
TYPICAL BRICK ANCHOR 10
3" = 1'-0"

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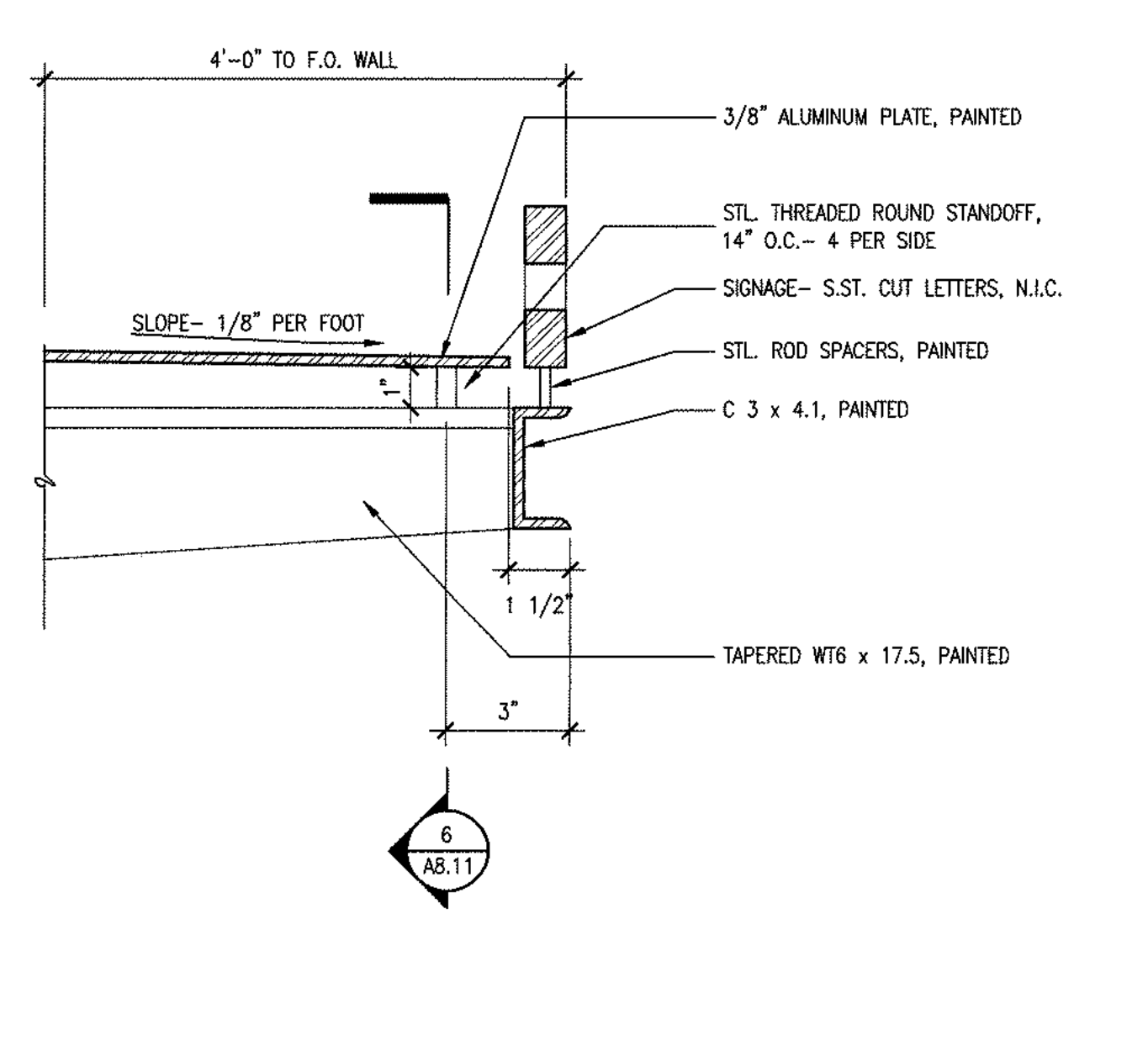
COLD FORMED METAL BOX HEADER 9
3" = 1'-0"

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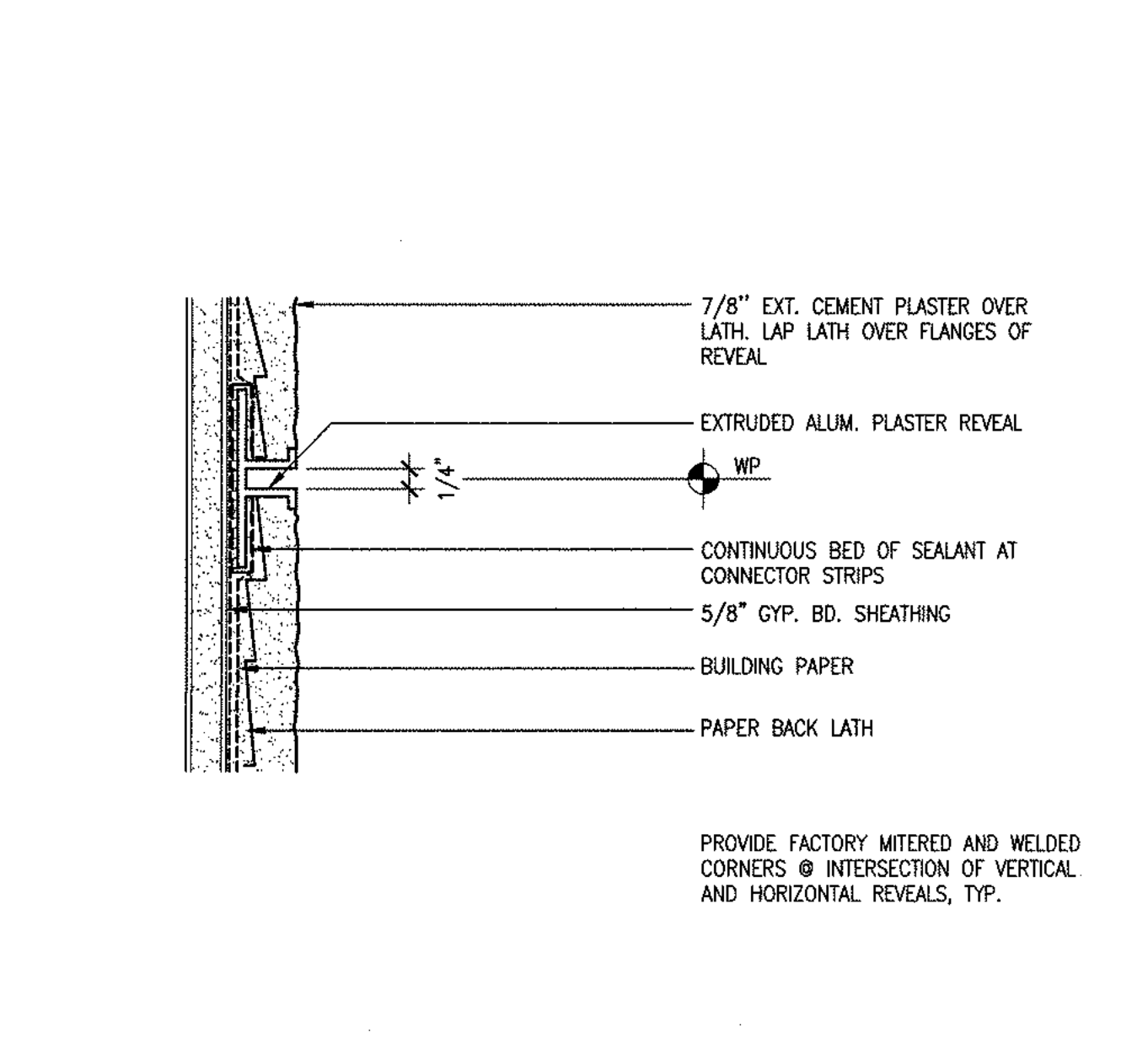
ALUMINUM PANEL SOFFIT 4
3" = 1'-0"

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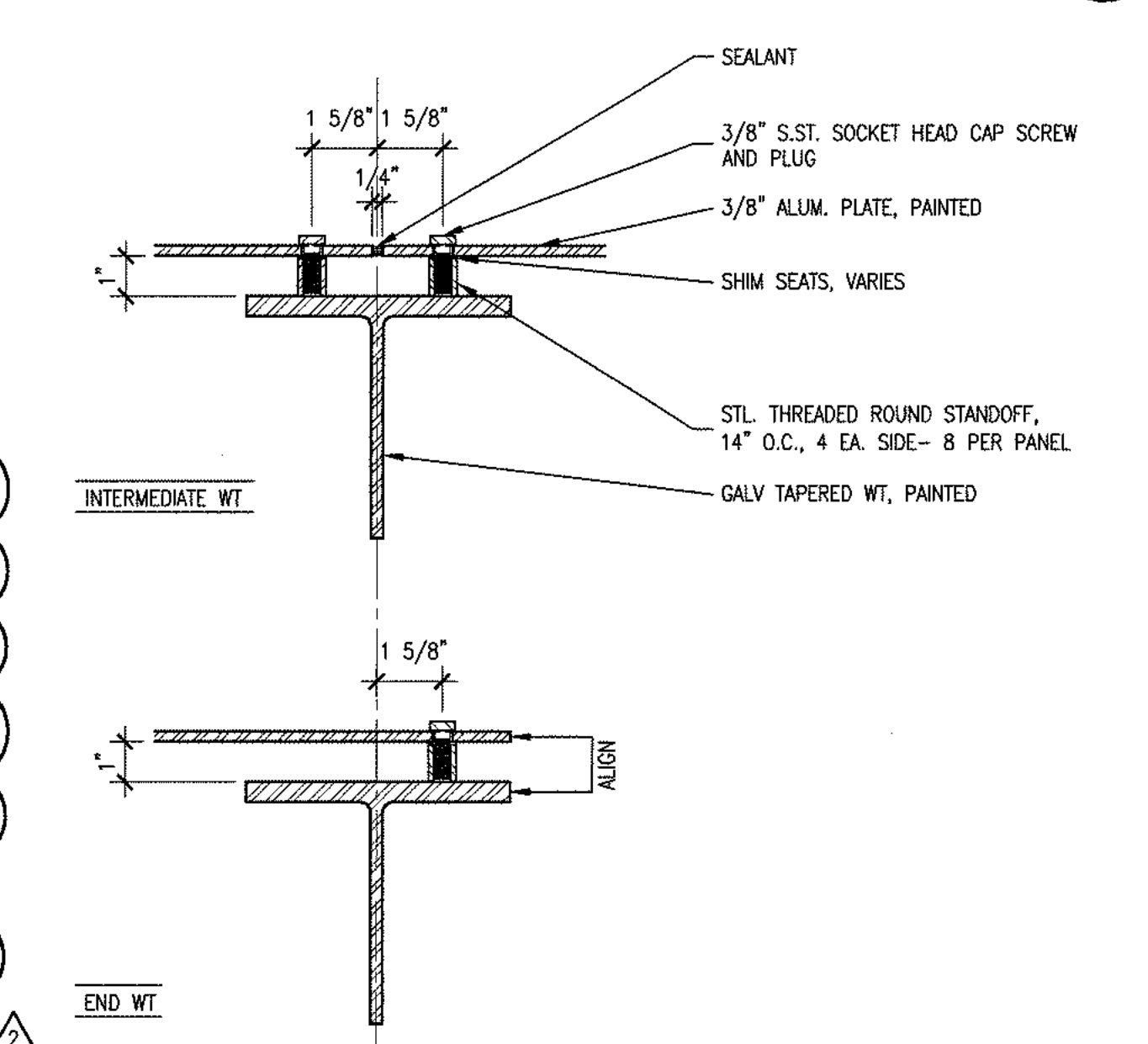
CANOPY EDGE 7
3" = 1'-0"

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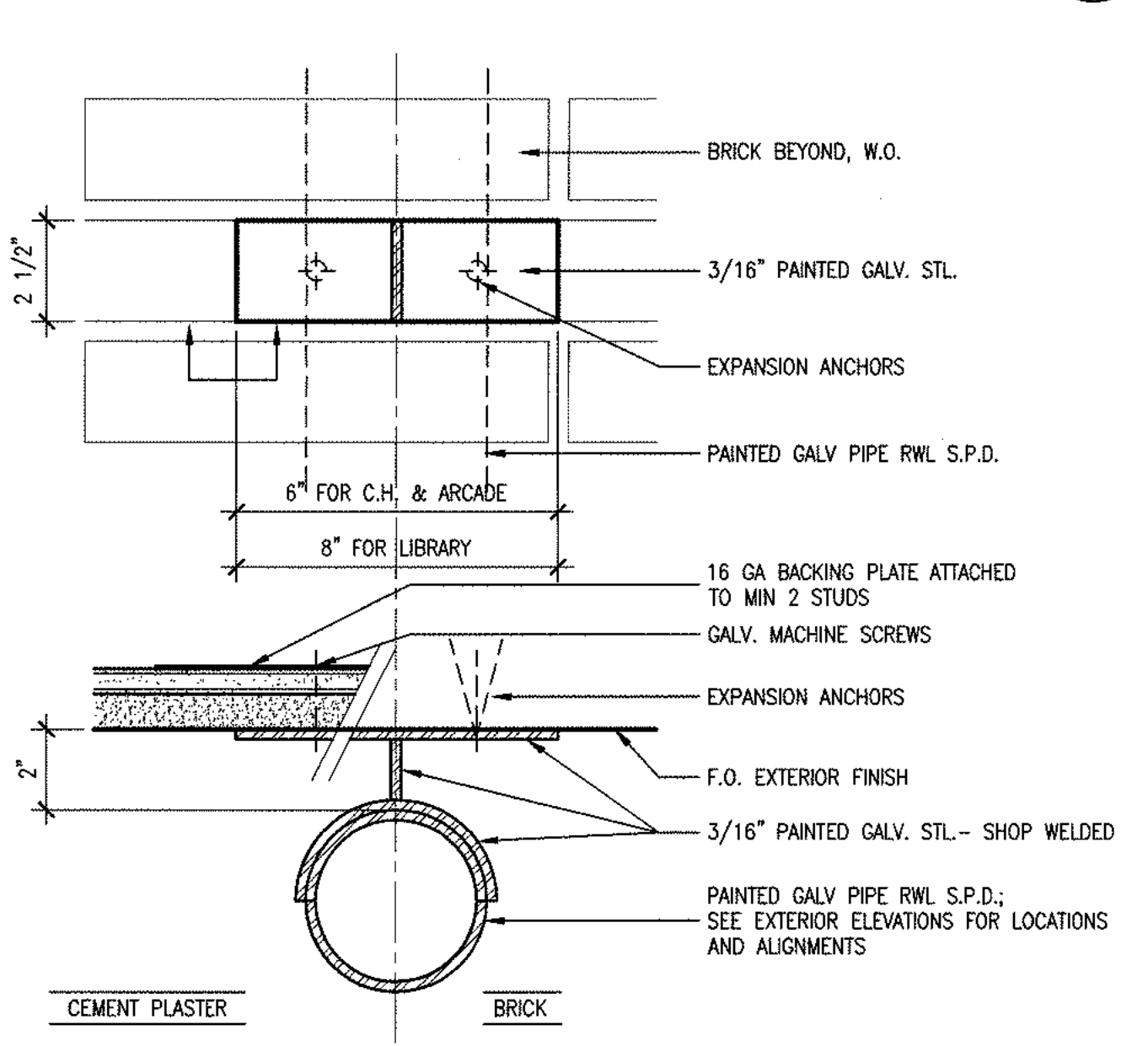
ALUMINUM REVEAL @ CEMENT PLASTER 3
6" = 1'-0"

FILE: I:\20114.00_CUPERTINO_LIBRARY\CAD\DRAWINGS\DETAILS\A08_DETAILS\Cement Plaster\Plaster.dwg



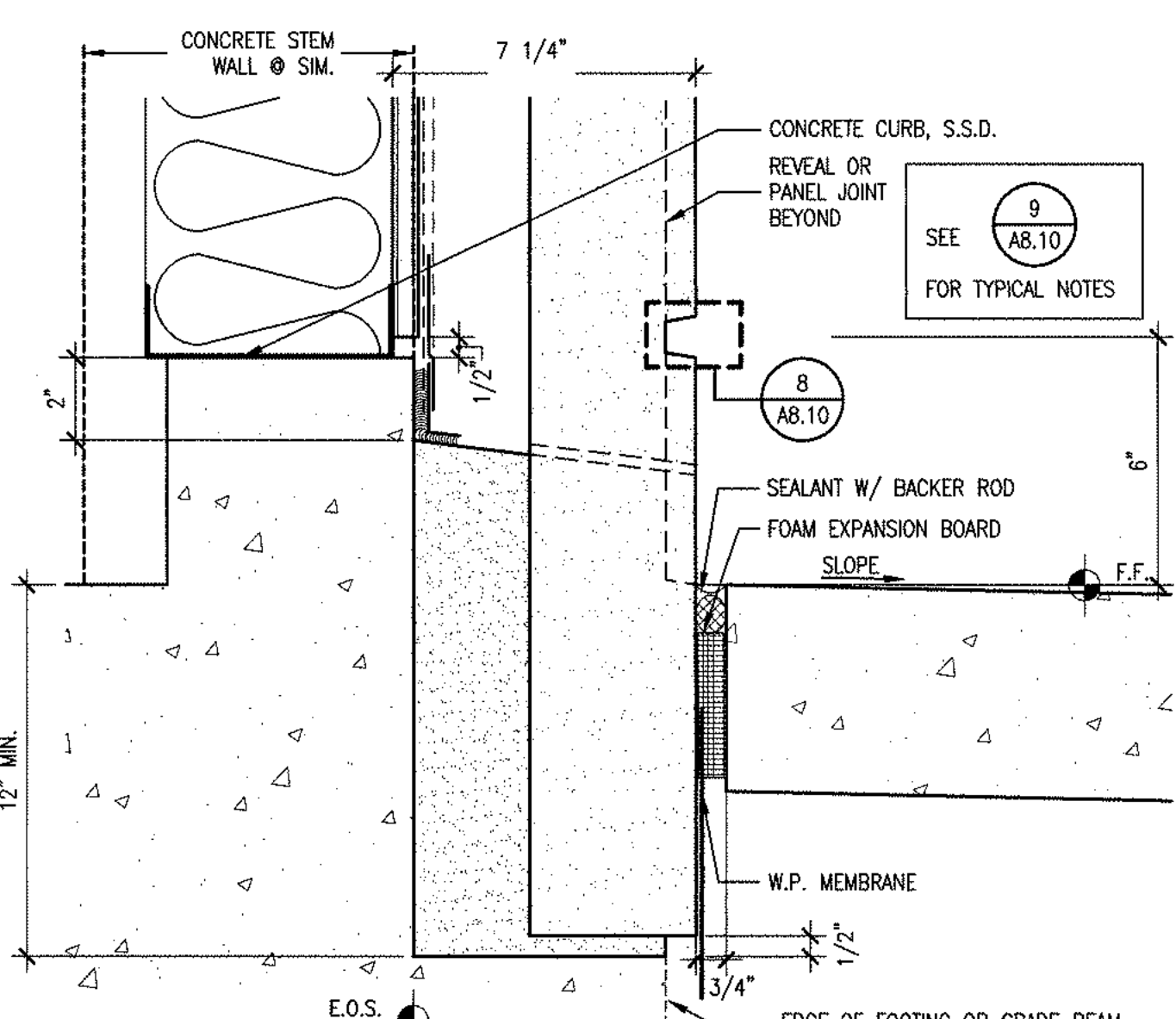
BOOK DROP CANOPY 6
3" = 1'-0"

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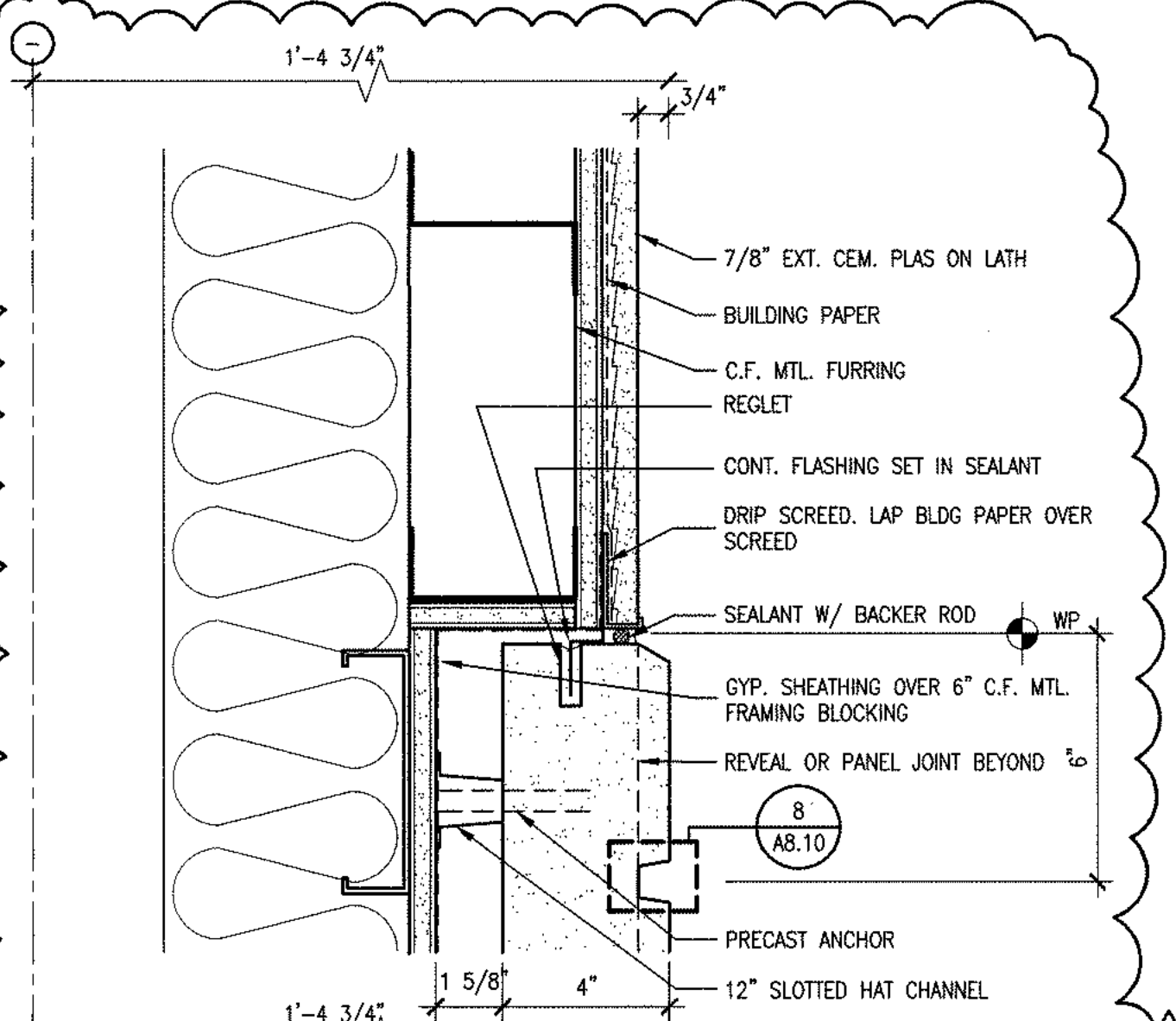
RAIN WATER LEADER 2
3" = 1'-0"

FILE: I:\20114.00_CUPERTINO_LIBRARY\CAD\DRAWINGS\DETAILS\A08_DETAILS\BRICK\RWL.DWG



PRECAST BASE AT PAVING 5
3" = 1'-0"

FILE: I:\20114.00_CUPERTINO_LIBRARY\CAD\DRAWINGS\DETAILS\A08_DETAILS\PRECAST\PRECAST.DWG



EXTERIOR PLASTER AT PRECAST CONCRETE 1
3" = 1'-0"

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SWMM
interiors
planning
graphic design

988 MARKET STREET, 3RD FLOOR, SAN FRANCISCO, CA 94103
415.546.0400 T
415.889.7098 F
WWW.SWMM.COM

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408.777.3354 T
408.777.3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916.435.2400 T
916.435.2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
415.865.1810 F

Forel/Eisesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415.837.0700 T
415.837.0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415.398.3833 T
415.433.5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415.495.4085 T
415.625.4660 F

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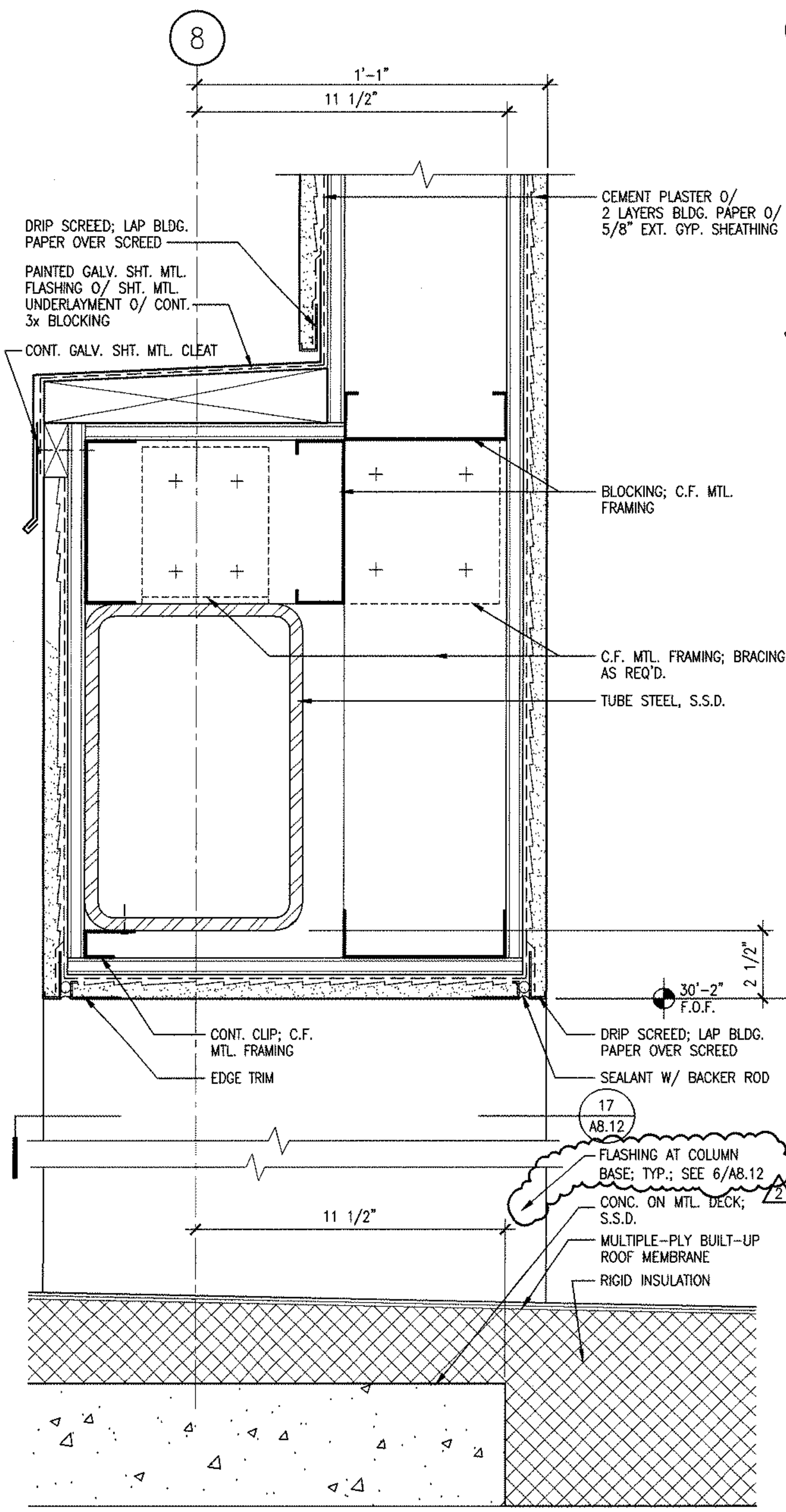
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EXP. 3/31/05
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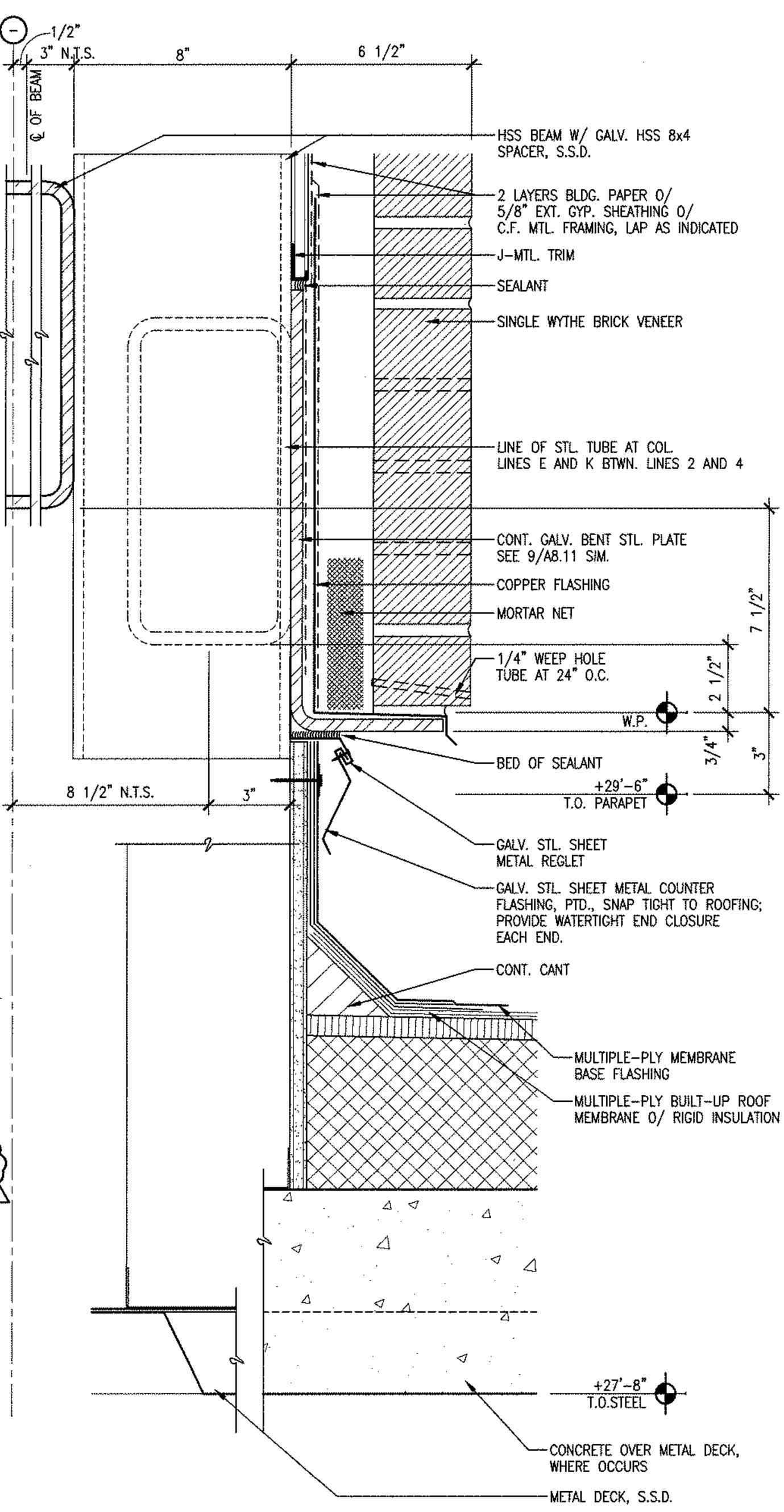
EXTERIOR
DETAILS

AS NOTED date 2003.04.18
drawn by project number 20114.00
sheet number

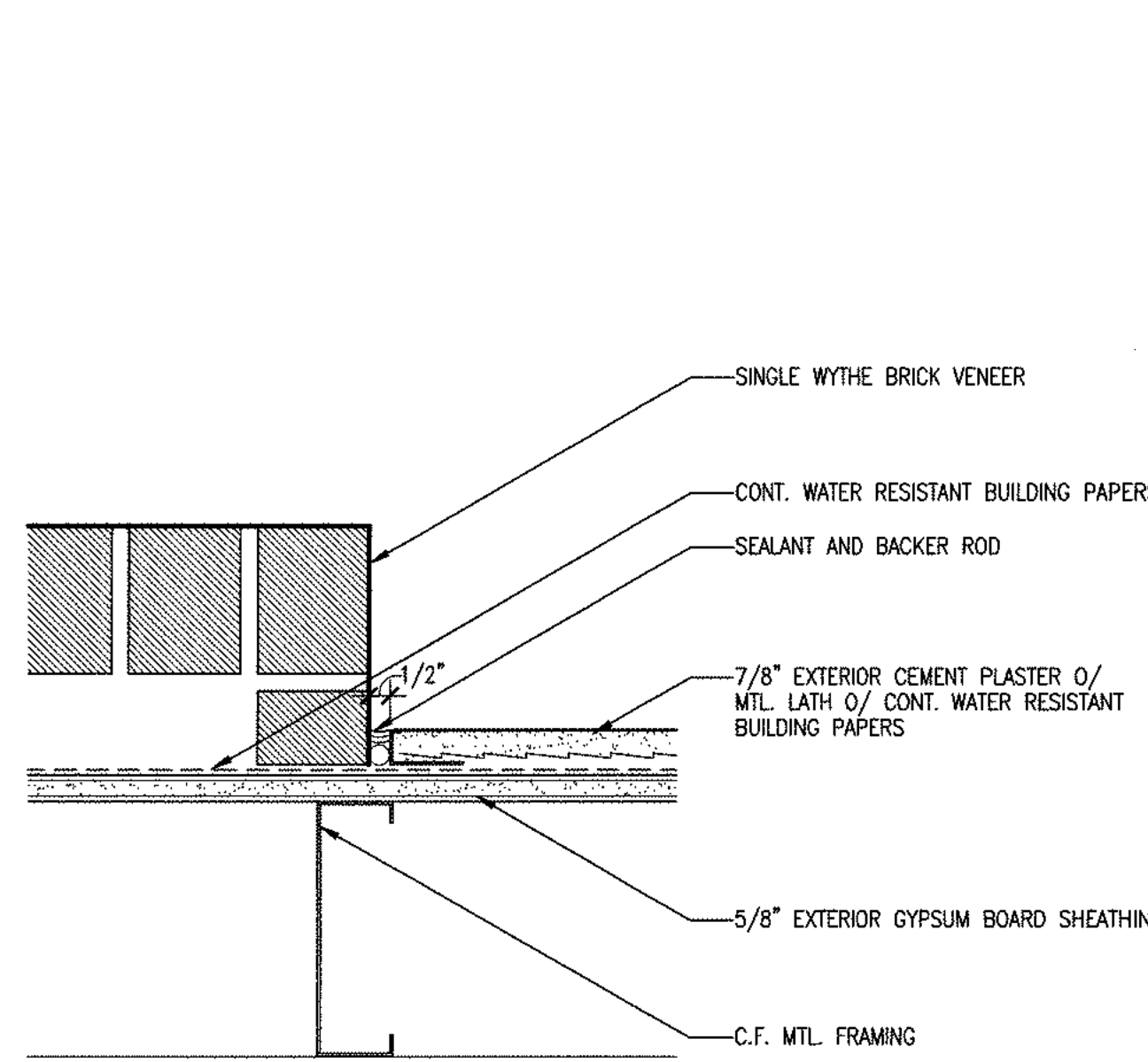
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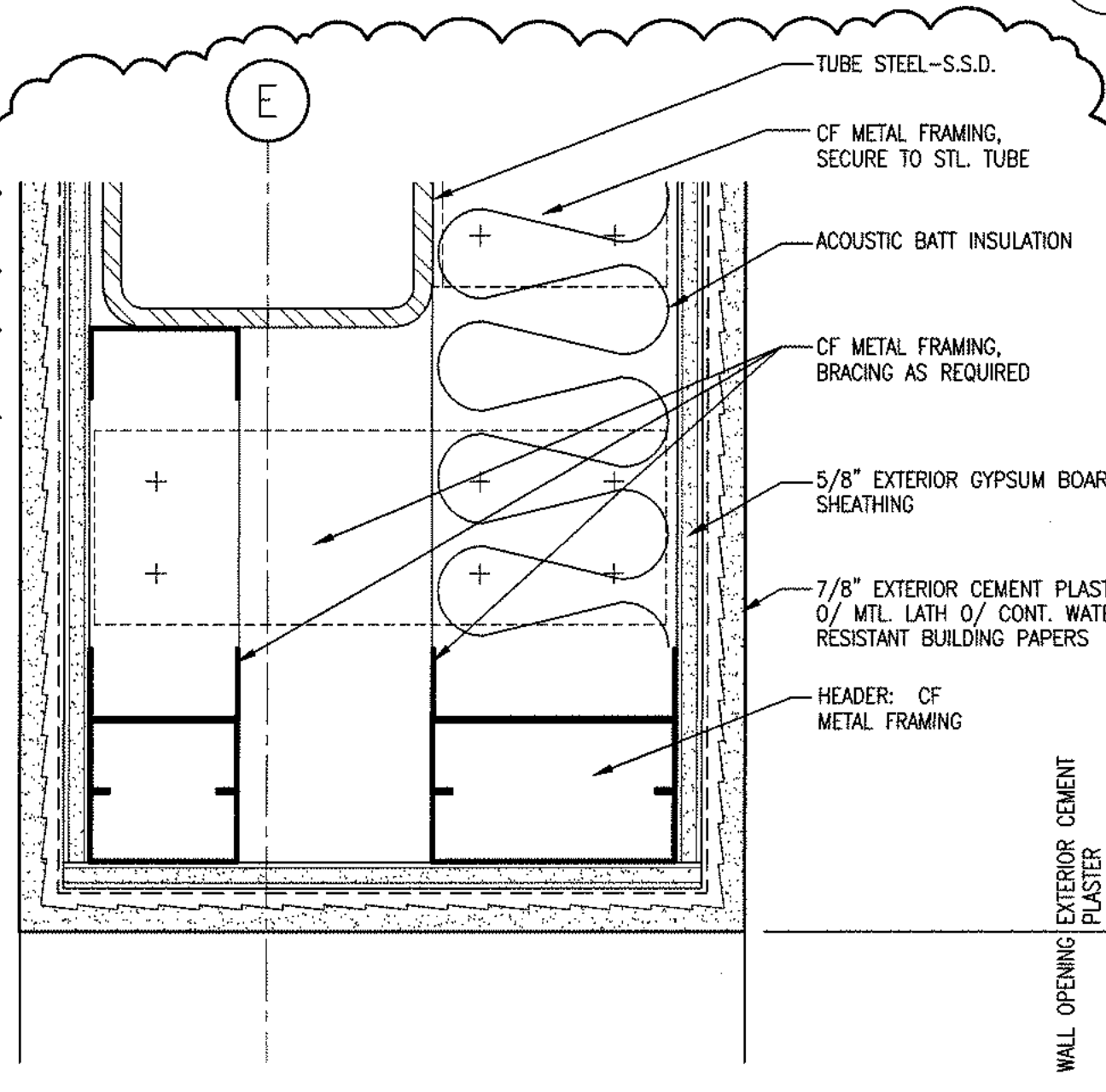
CEMENT PLASTER PARAPET WALL OPENING 19
3" = 1'-0"



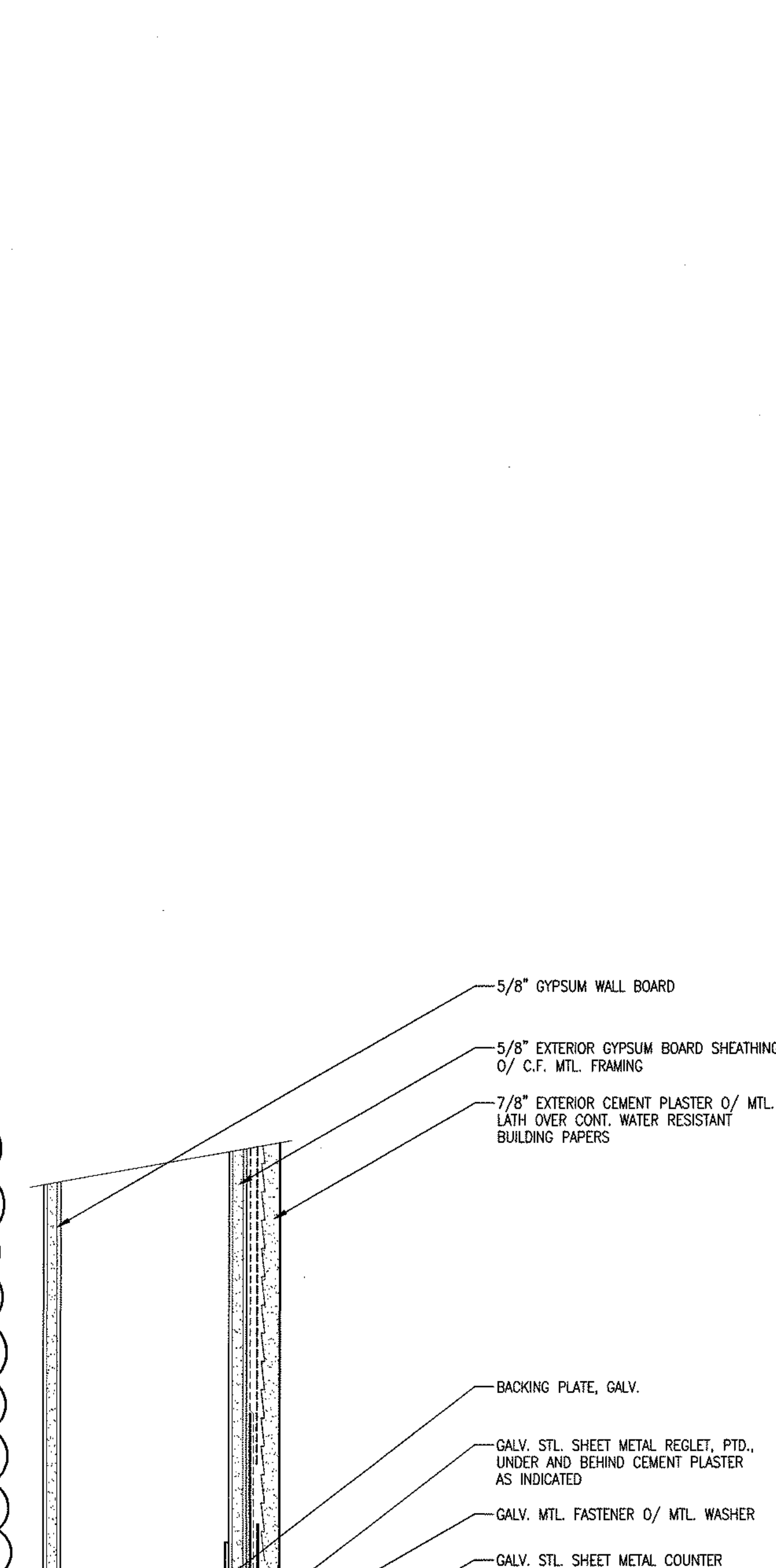
BRICK PARAPET WALL BASE 15
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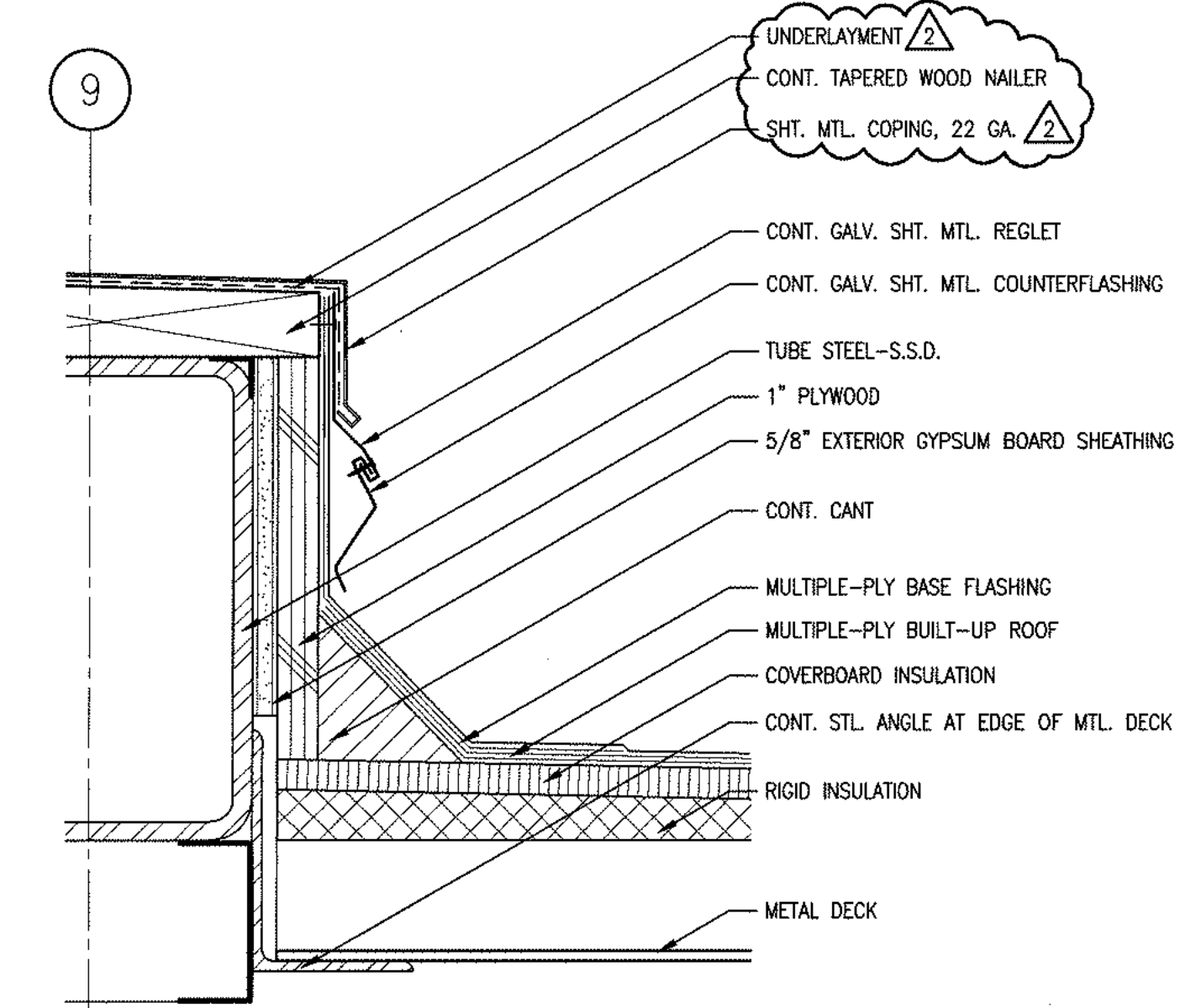
BRICK/PLASTER EXTERIOR WALL INTERSECTION 12
3" = 1'-0"



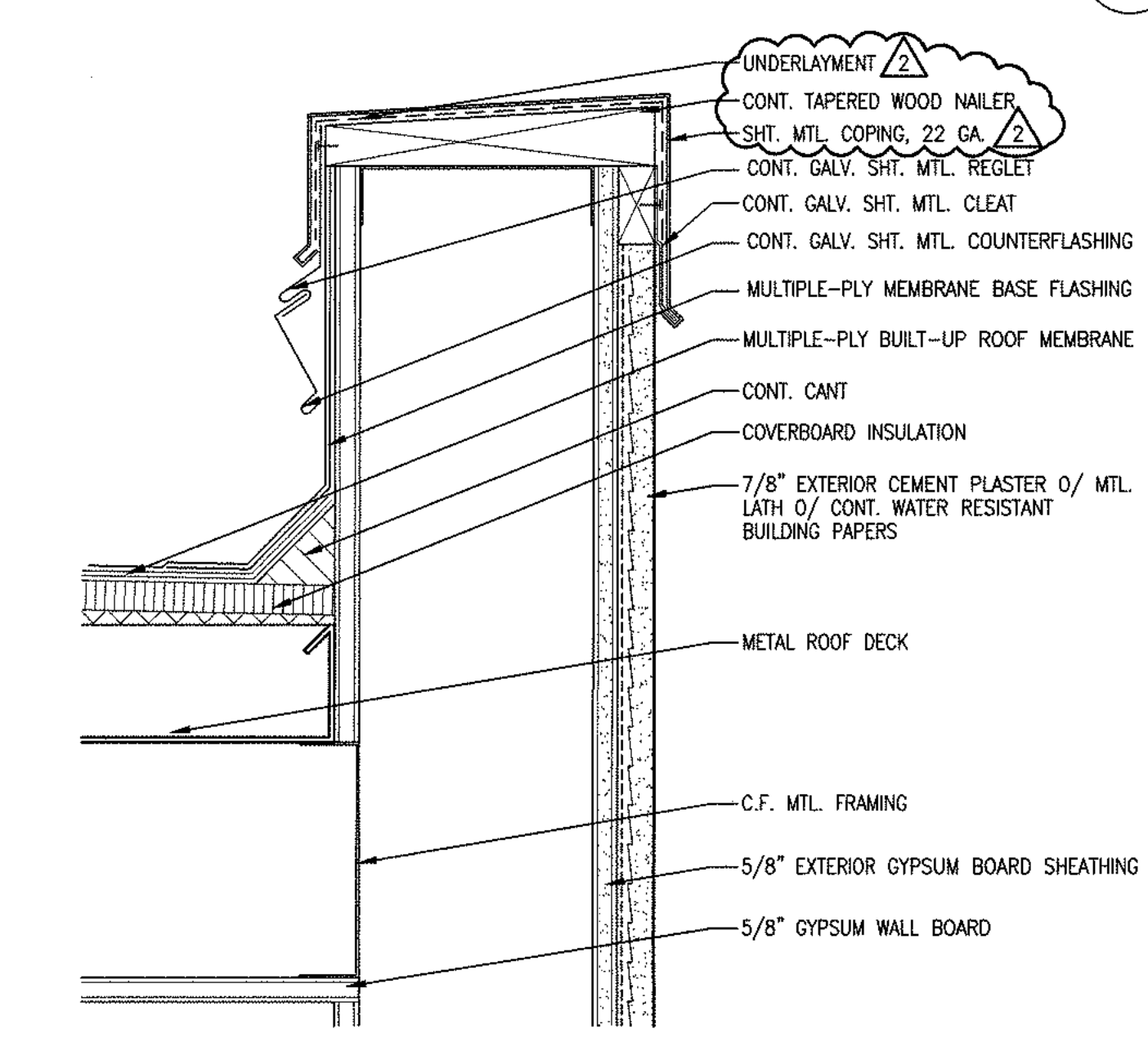
PARAPET OPENING HEAD DETAIL 11
3" = 1'-0"



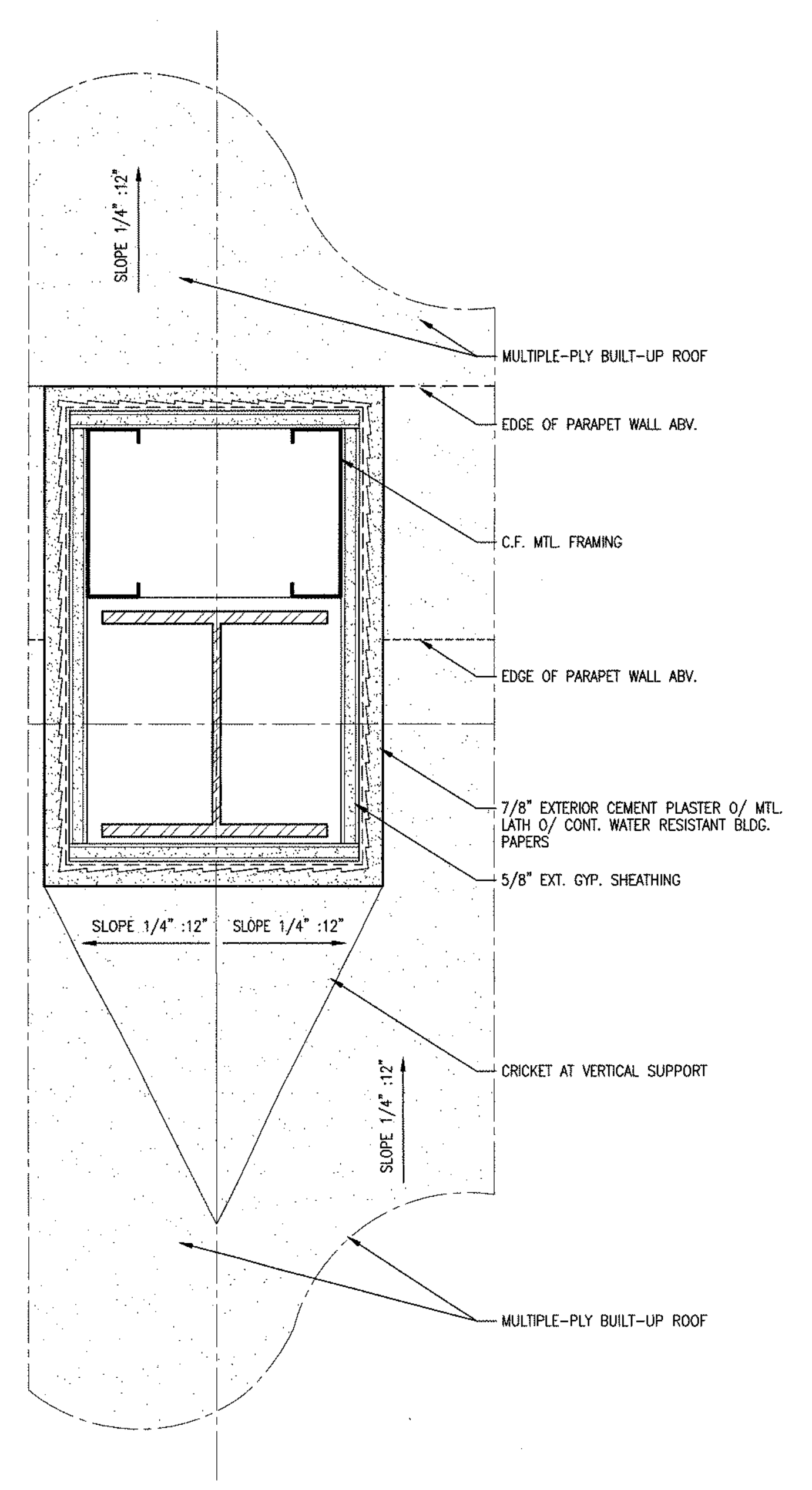
STAIR ENCLOSURE EXTERIOR WALL BASE AT ROOF 6
3" = 1'-0"



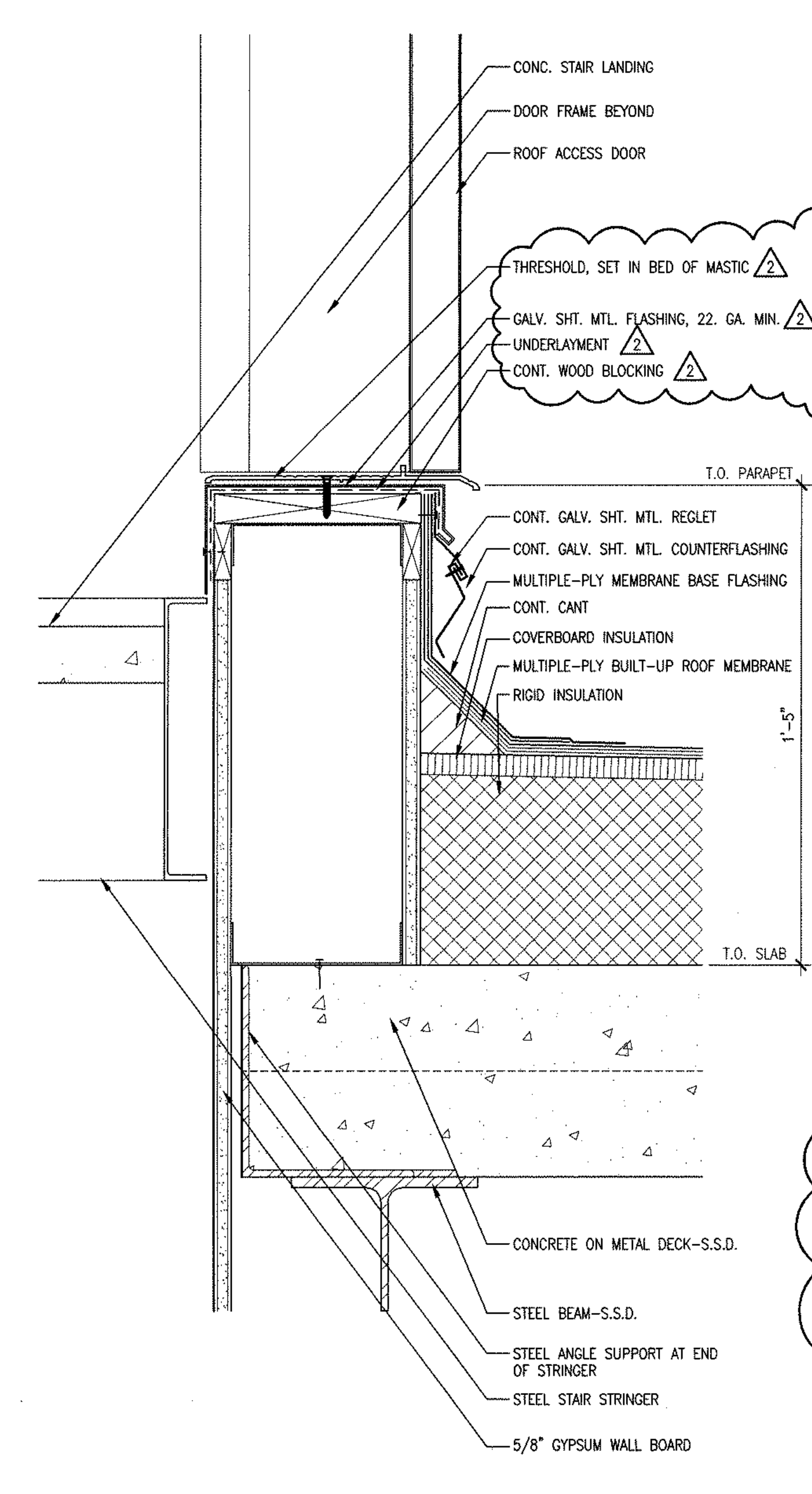
PARAPET AT STAIR PENTHOUSE ROOF 4
3" = 1'-0"



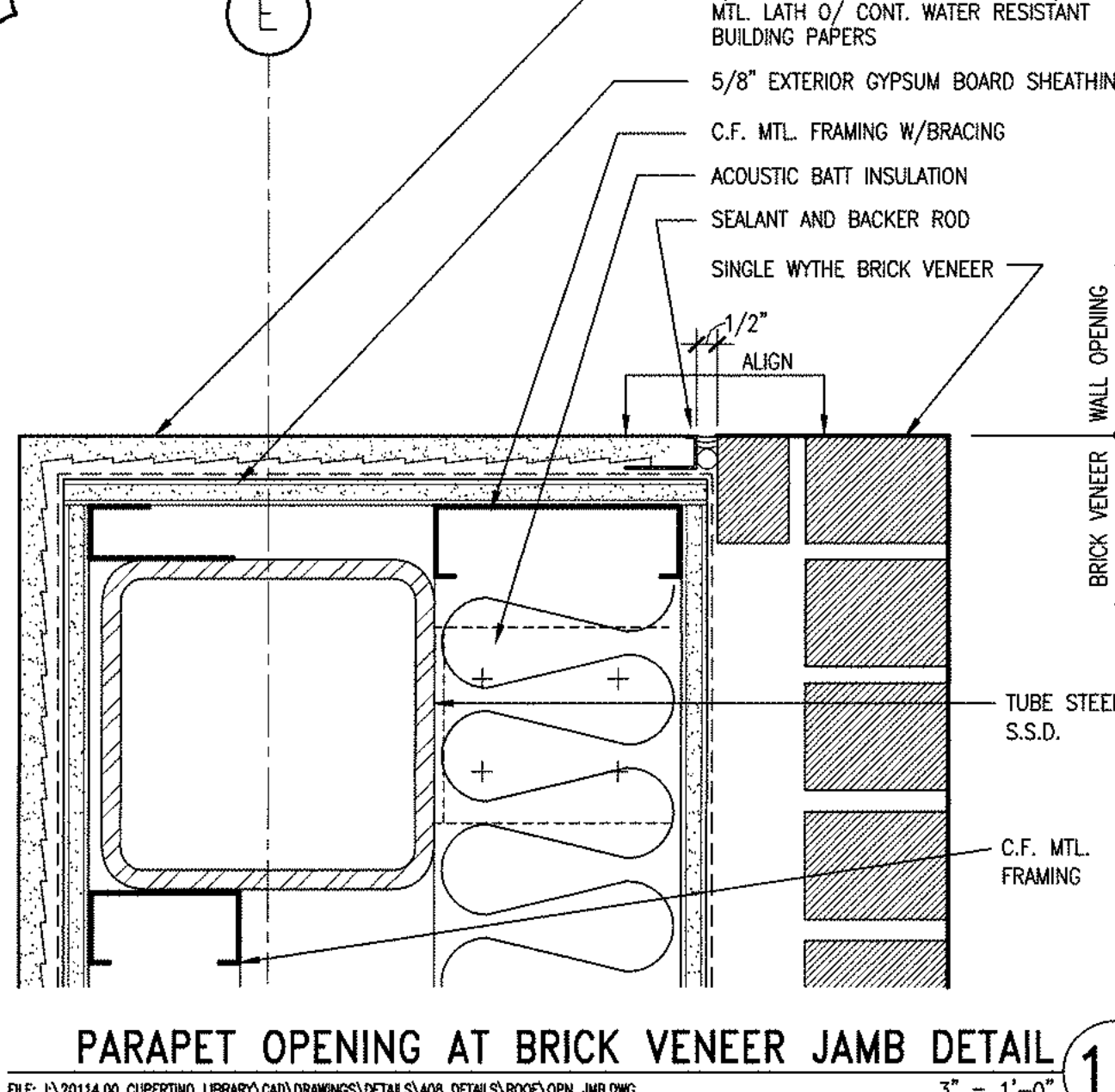
STAIR ENCLOSURE PARAPET COPING 3
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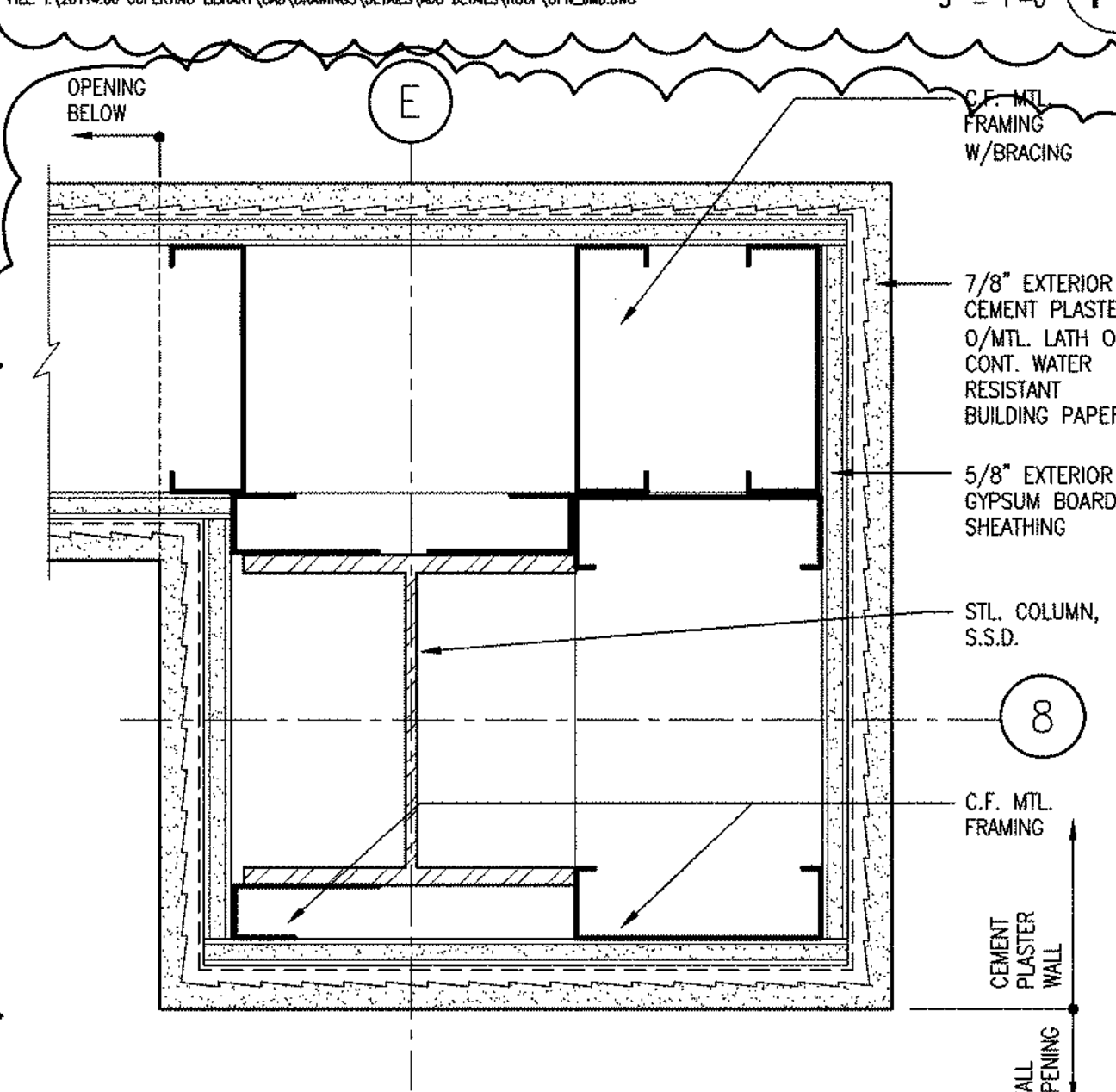
CEMENT PLASTER PARAPET WALL PLAN 17
3" = 1'-0"



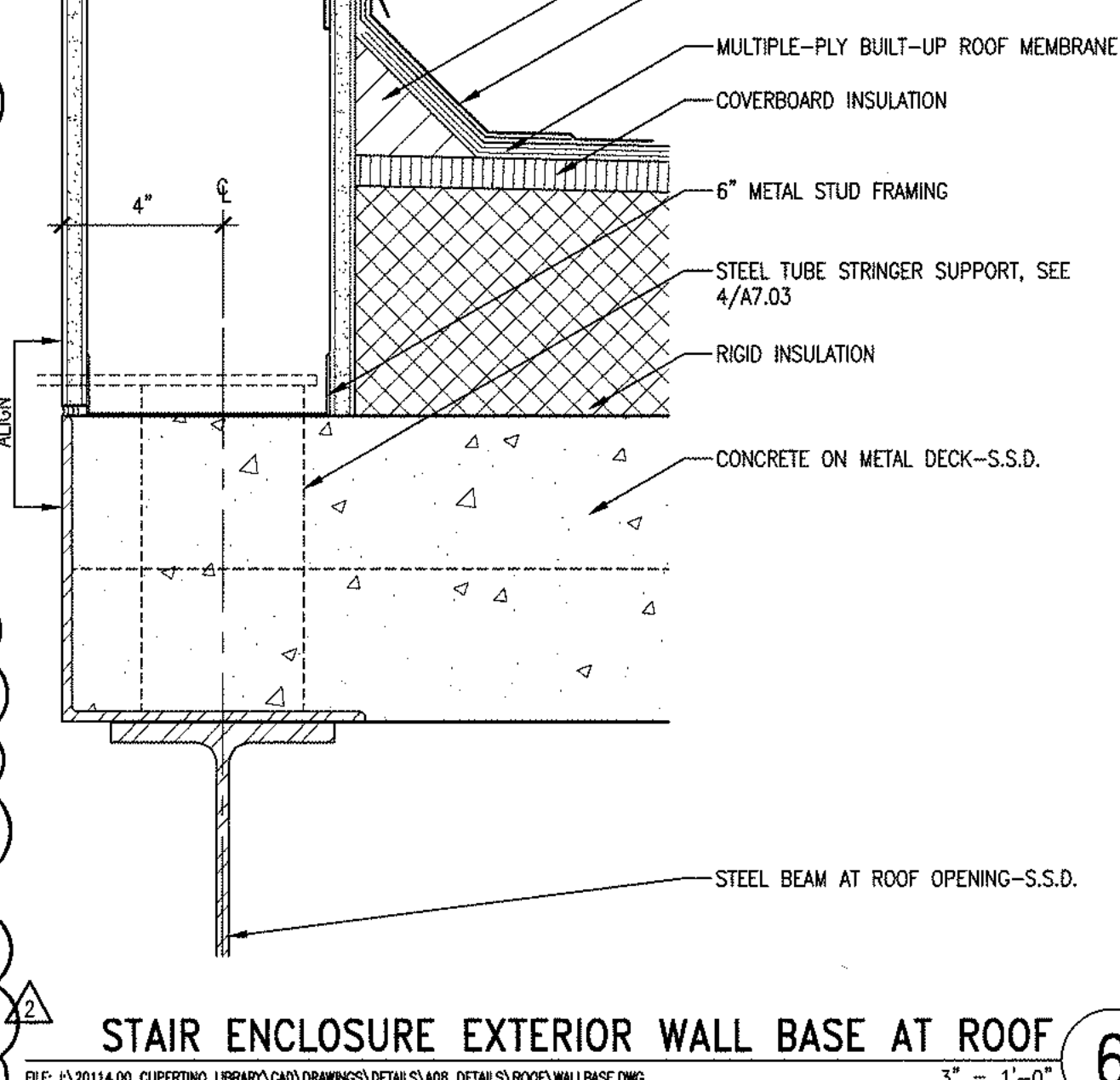
CURB AT ROOF ACCESS DOOR 13
3" = 1'-0"



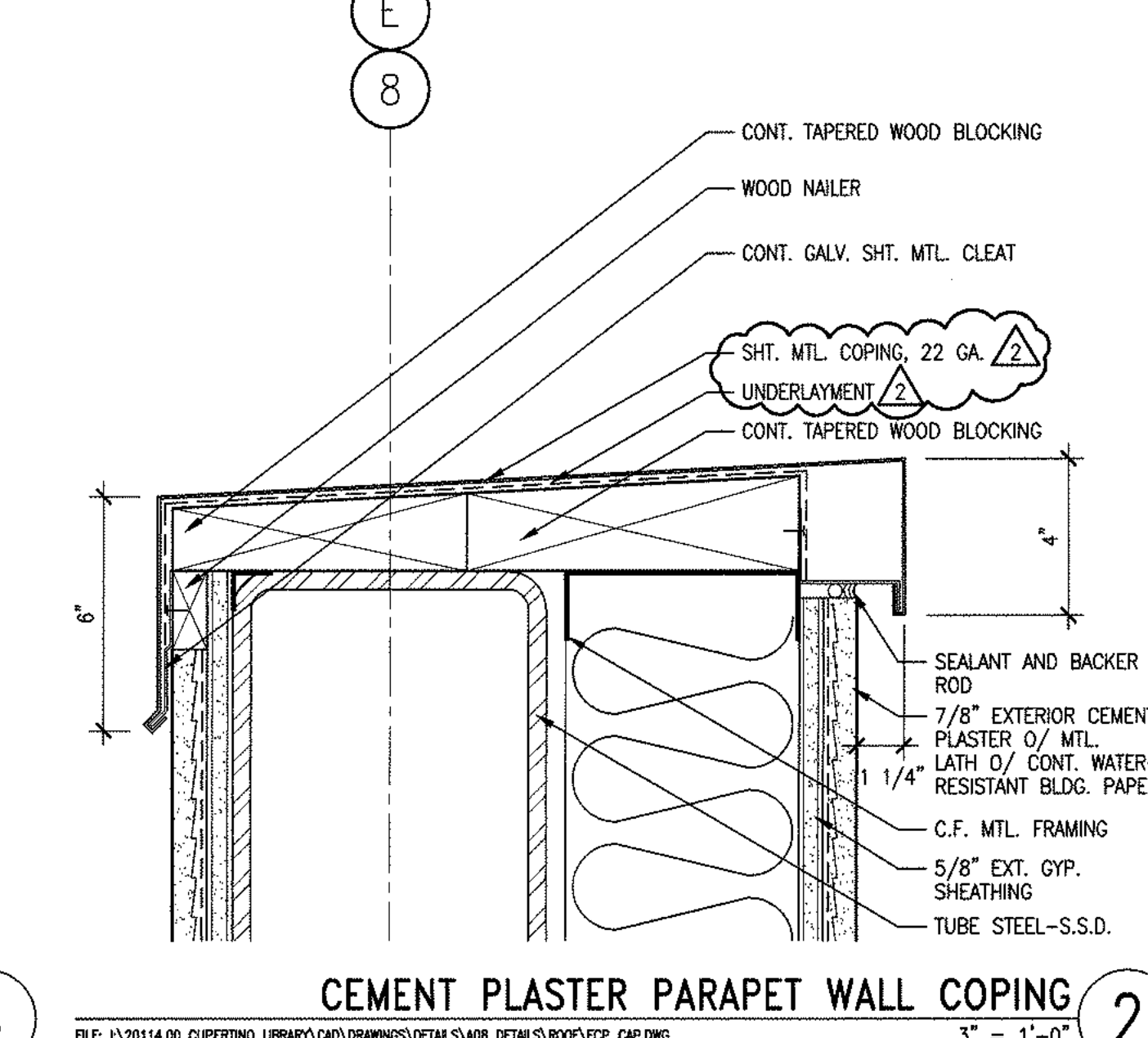
PARAPET OPENING AT BRICK VENEER JAMB DETAIL 10
3" = 1'-0"



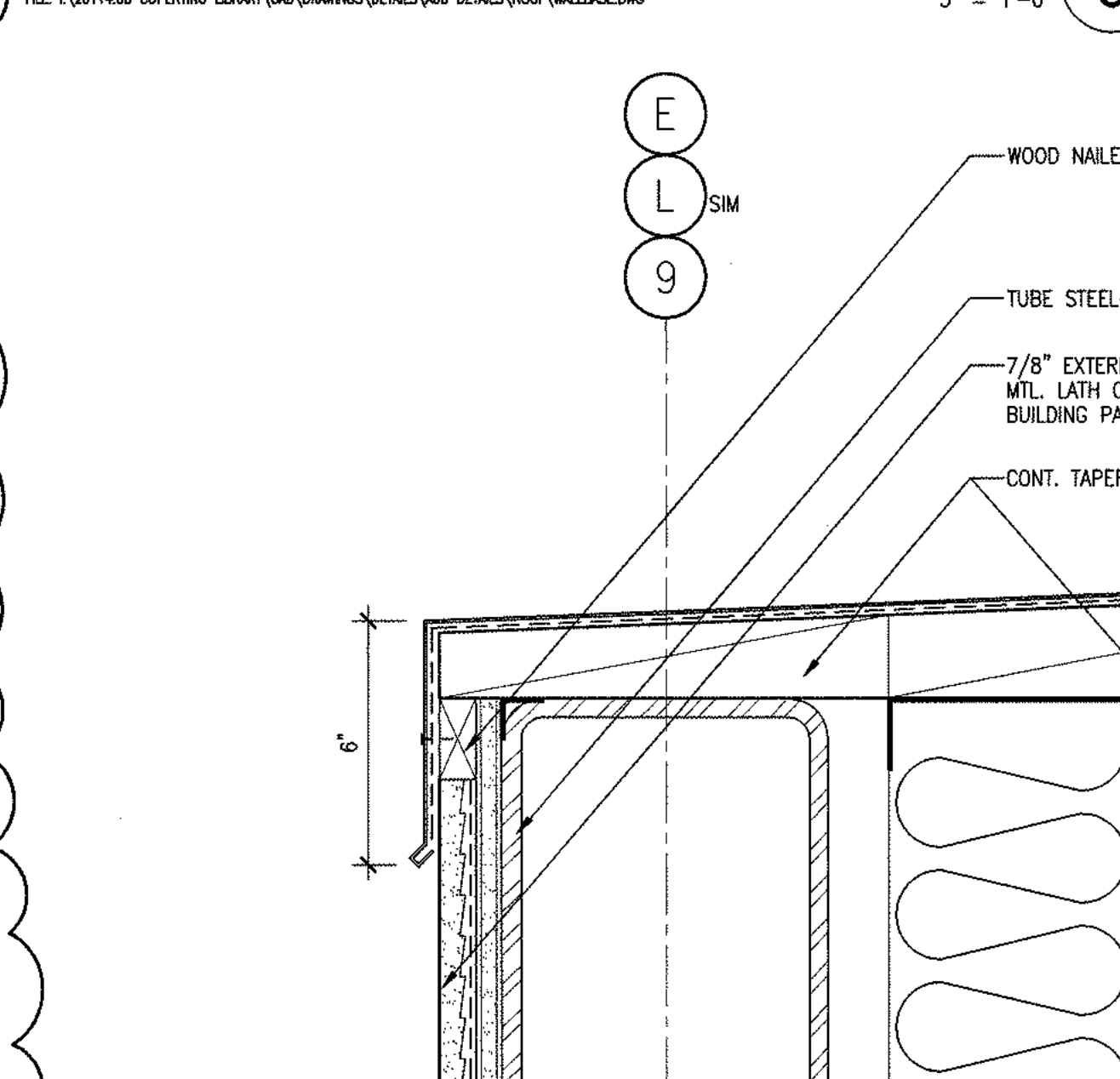
PARAPET OPENING JAMB DETAIL 9
3" = 1'-0"



STAIR ENCLOSURE EXTERIOR WALL BASE AT ROOF 6
3" = 1'-0"



CEMENT PLASTER PARAPET WALL COPING 2
3" = 1'-0"



BRICK PARAPET WALL COPING 1
3" = 1'-0"

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889 Market Street, 3rd Floor, San Francisco, CA 94103
415.546.0400 T
415.862.7098 F
www.shmm.com

City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408.777.3354 T
408.777.3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916.435.2400 T
916.435.2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
415.865.1810 F

Forell/Elsesser Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415.837.0700 T
415.837.0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415.398.3833 T
415.433.5311 F

Architectural Lighting Design
370 Brannan Street
San Francisco, CA 94107
415.485.4085 T
415.485.4660 F

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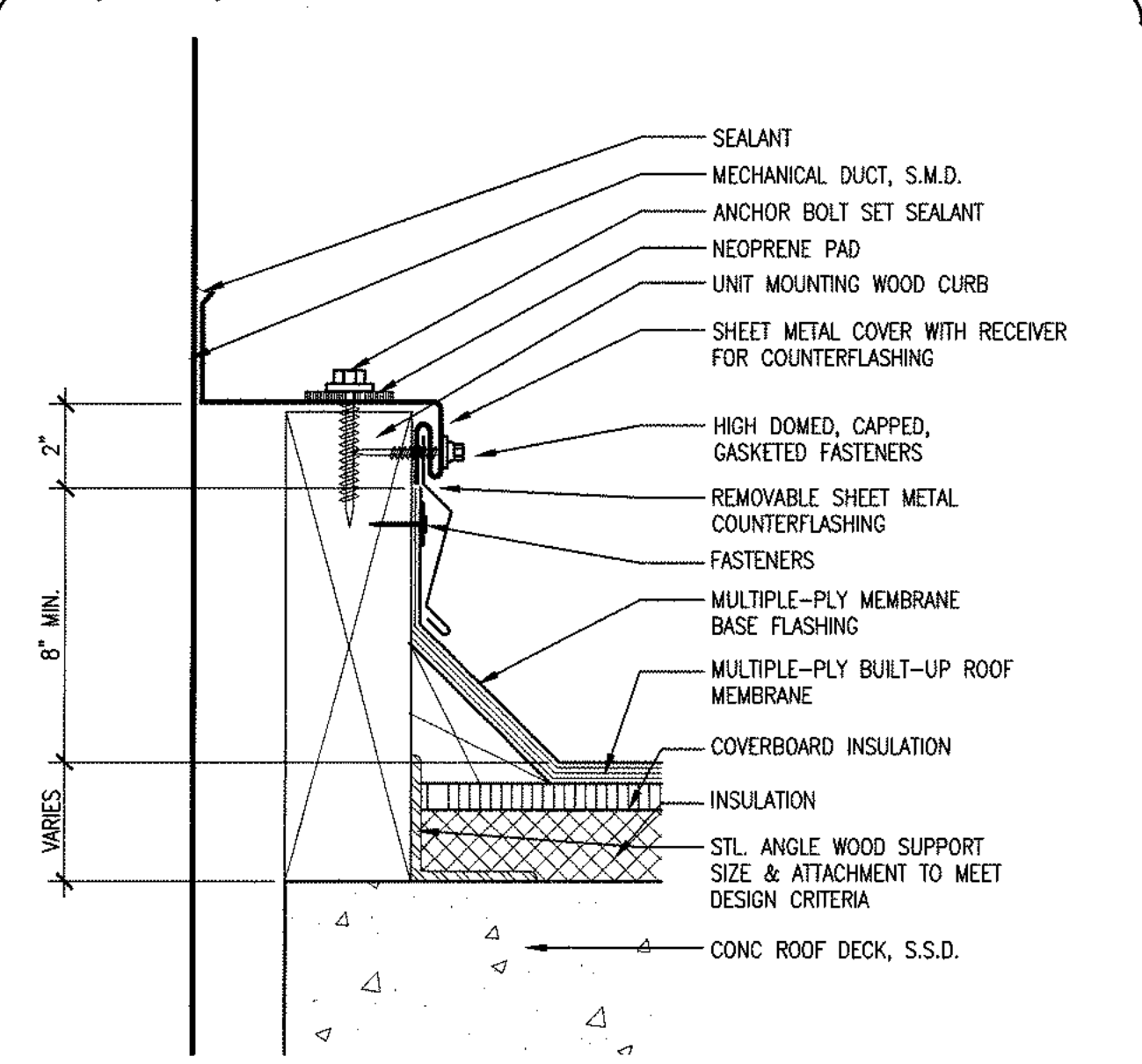
LICENCED ARCHITECT
LISA A. SCHEIT
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

BID SET

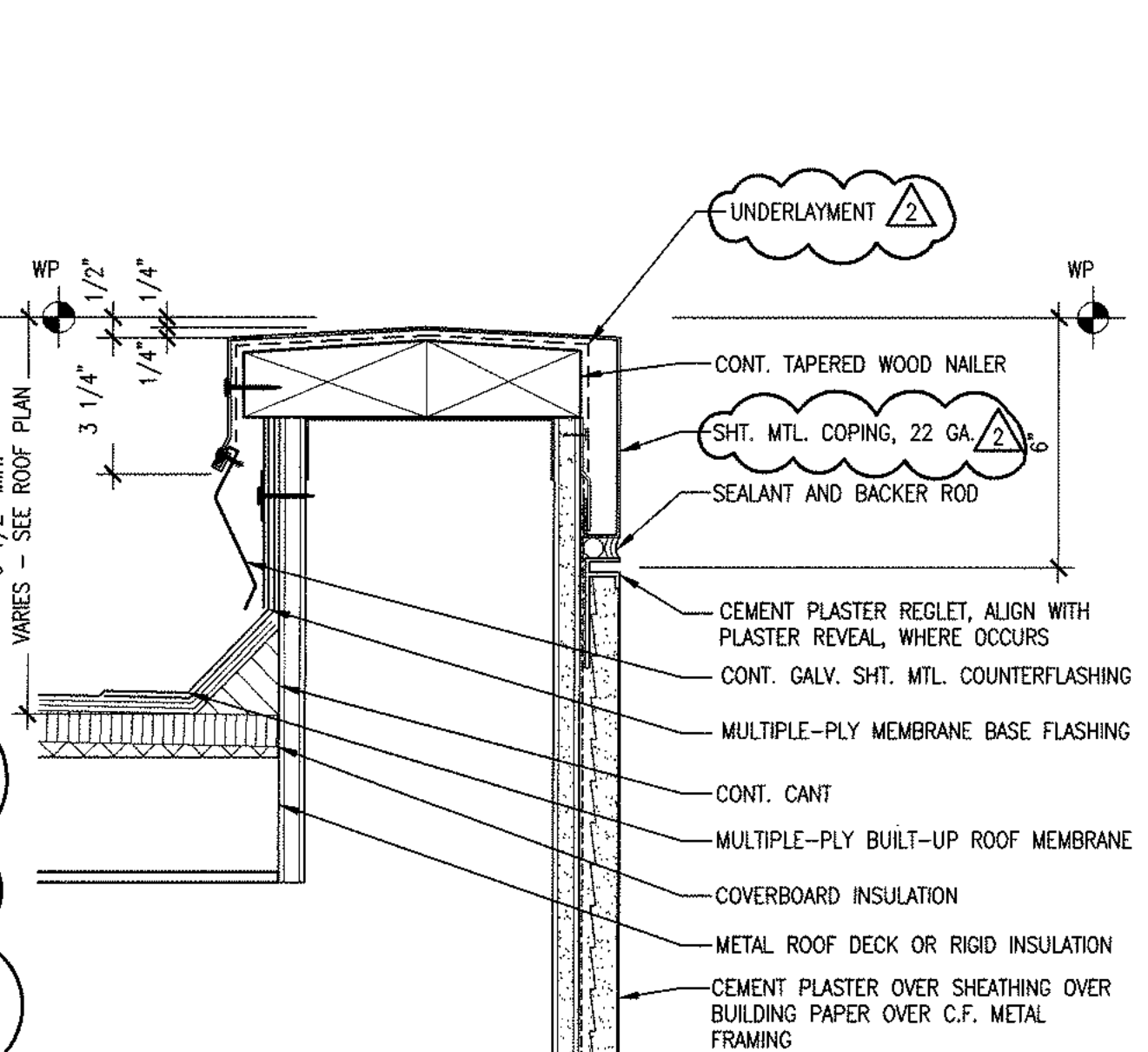
ROOF DETAILS

DATE AS NOTED 2003.04.18
DRAWN BY PROJECT NUMBER 20114.00
SHEET NUMBER dc

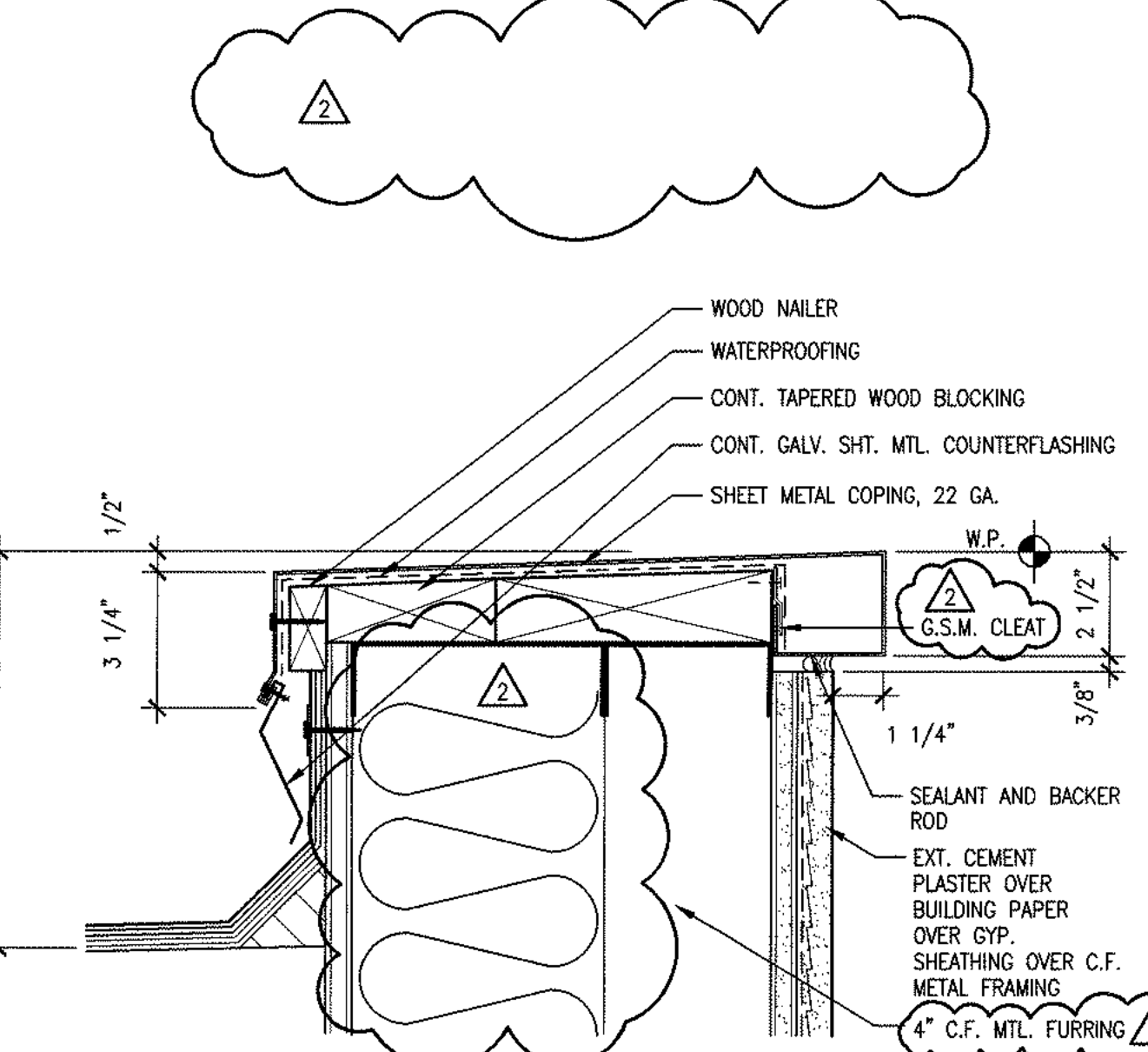
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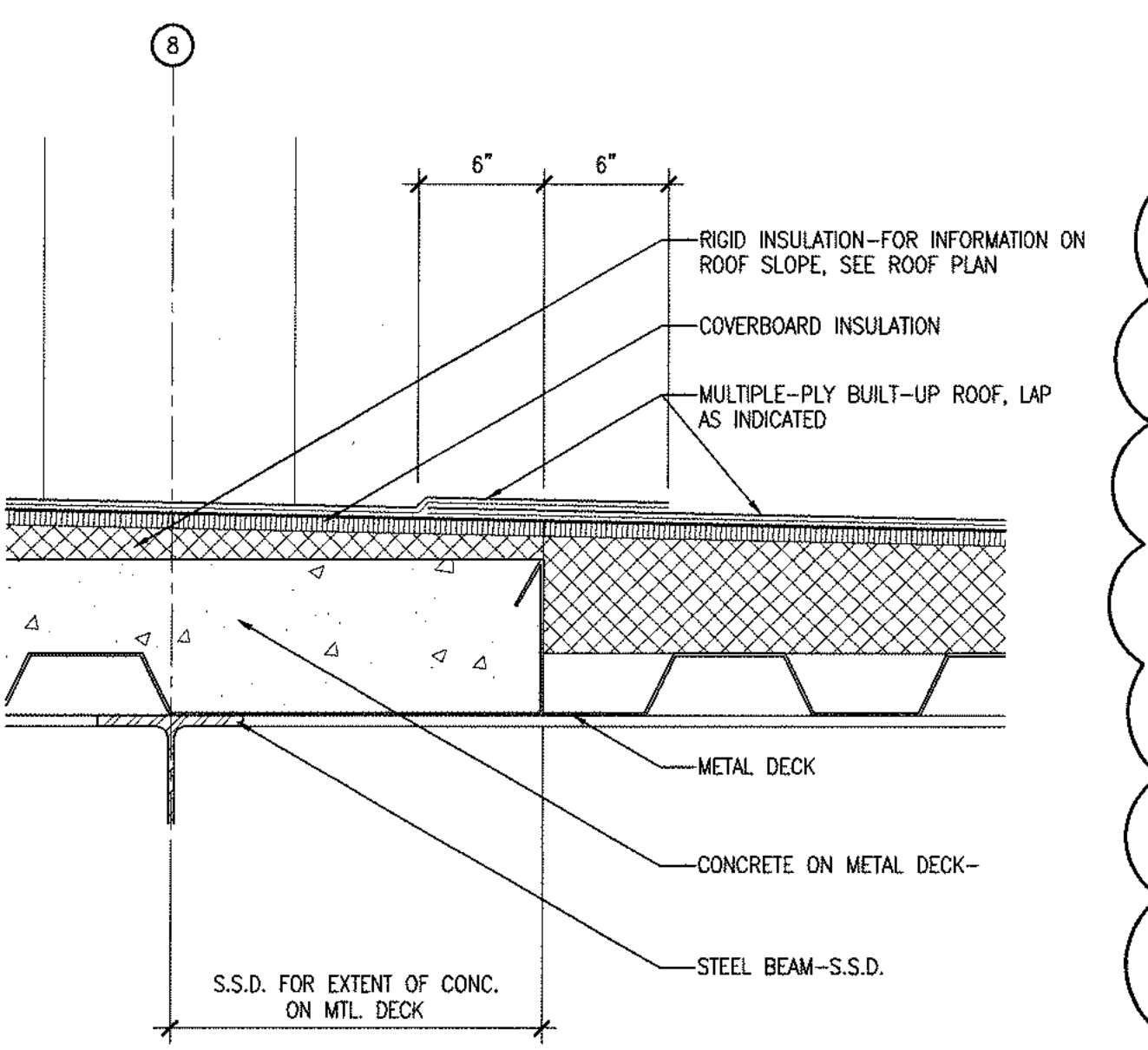
MECHANICAL DUCT PENETRATION 20
3" = 1'-0"



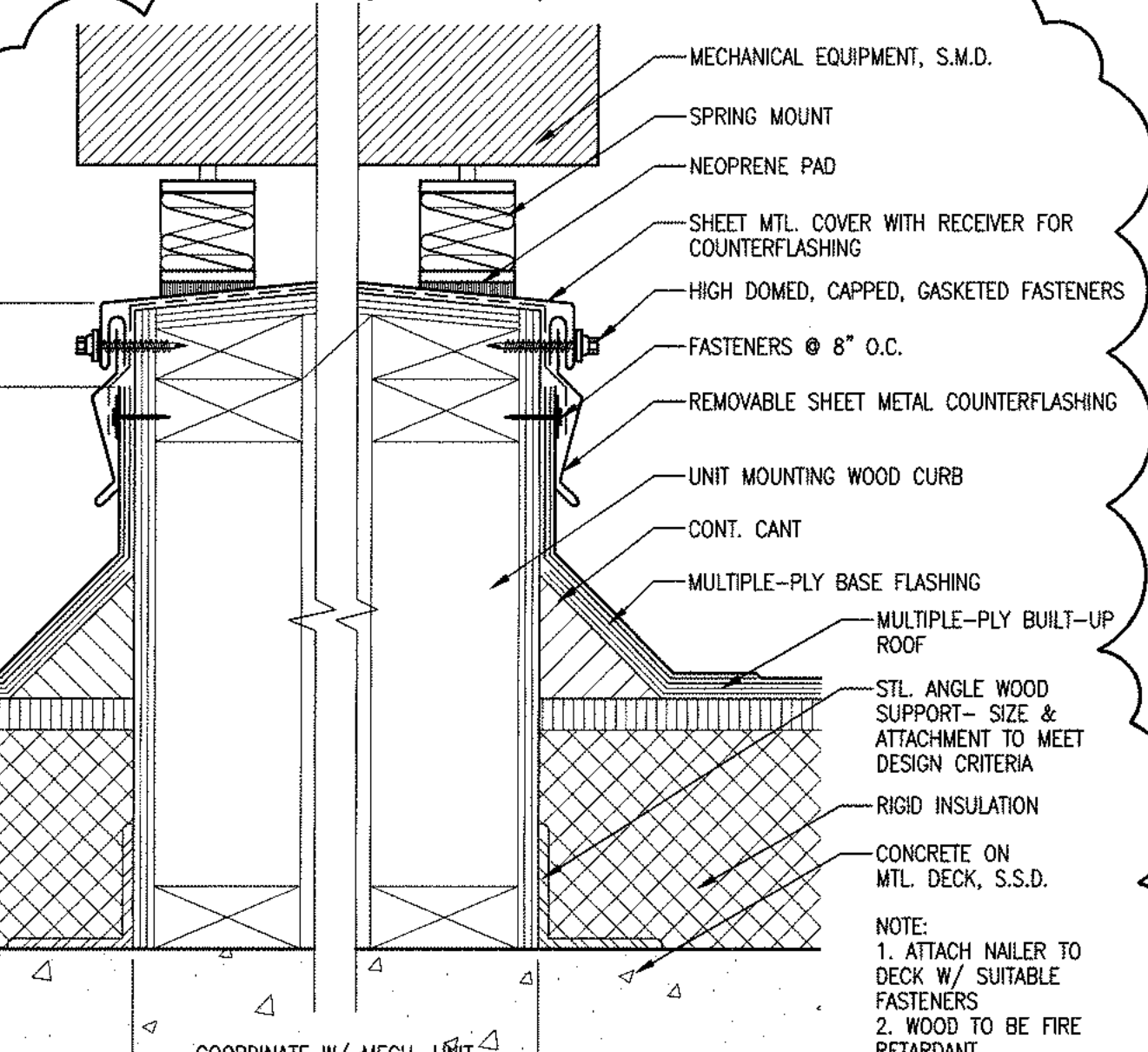
PARAPET COPING AT CEMENT PLASTER 16
3" = 1'-0"



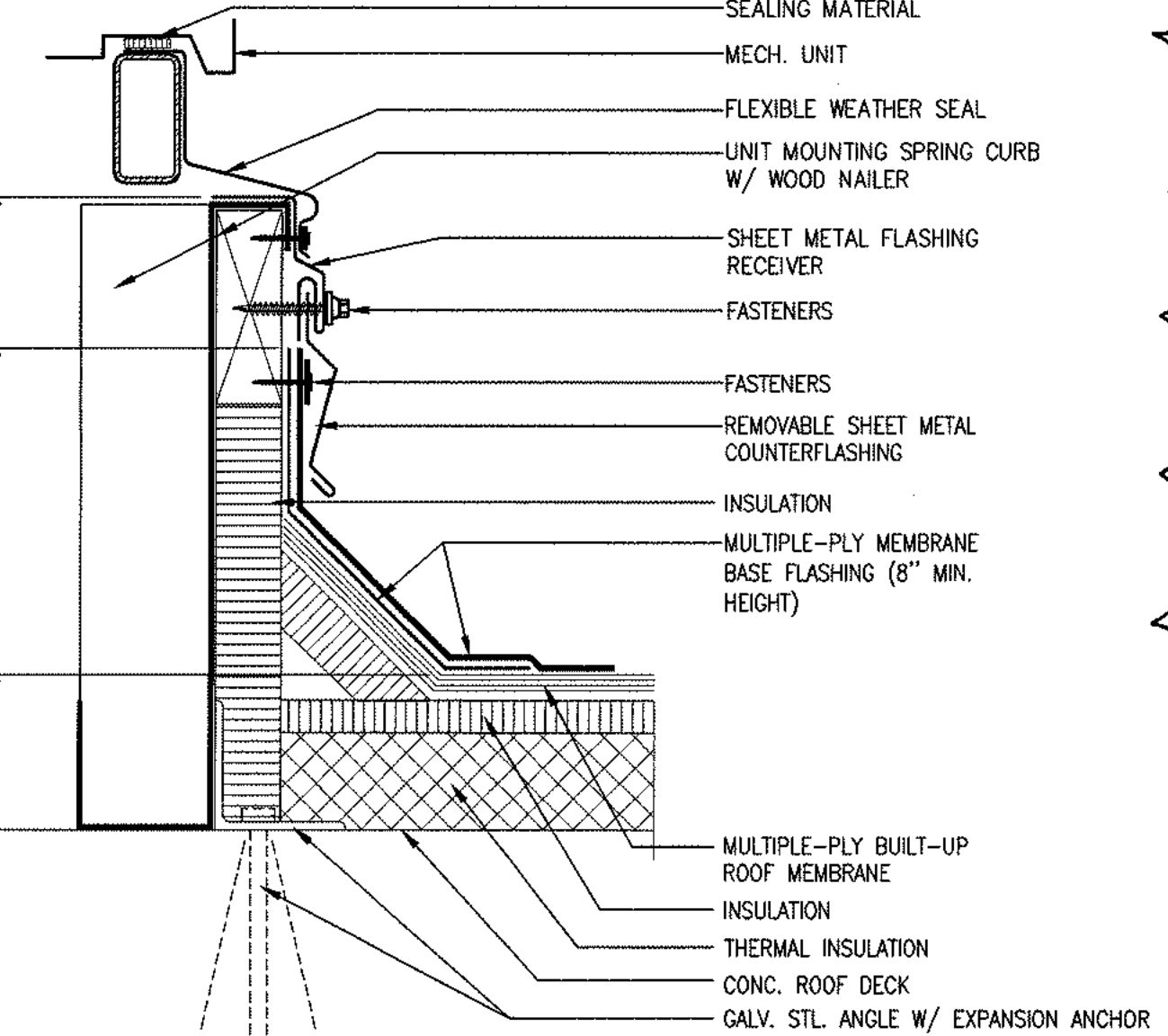
CEMENT PLASTER PARAPET WALL COPING 12
3" = 1'-0"



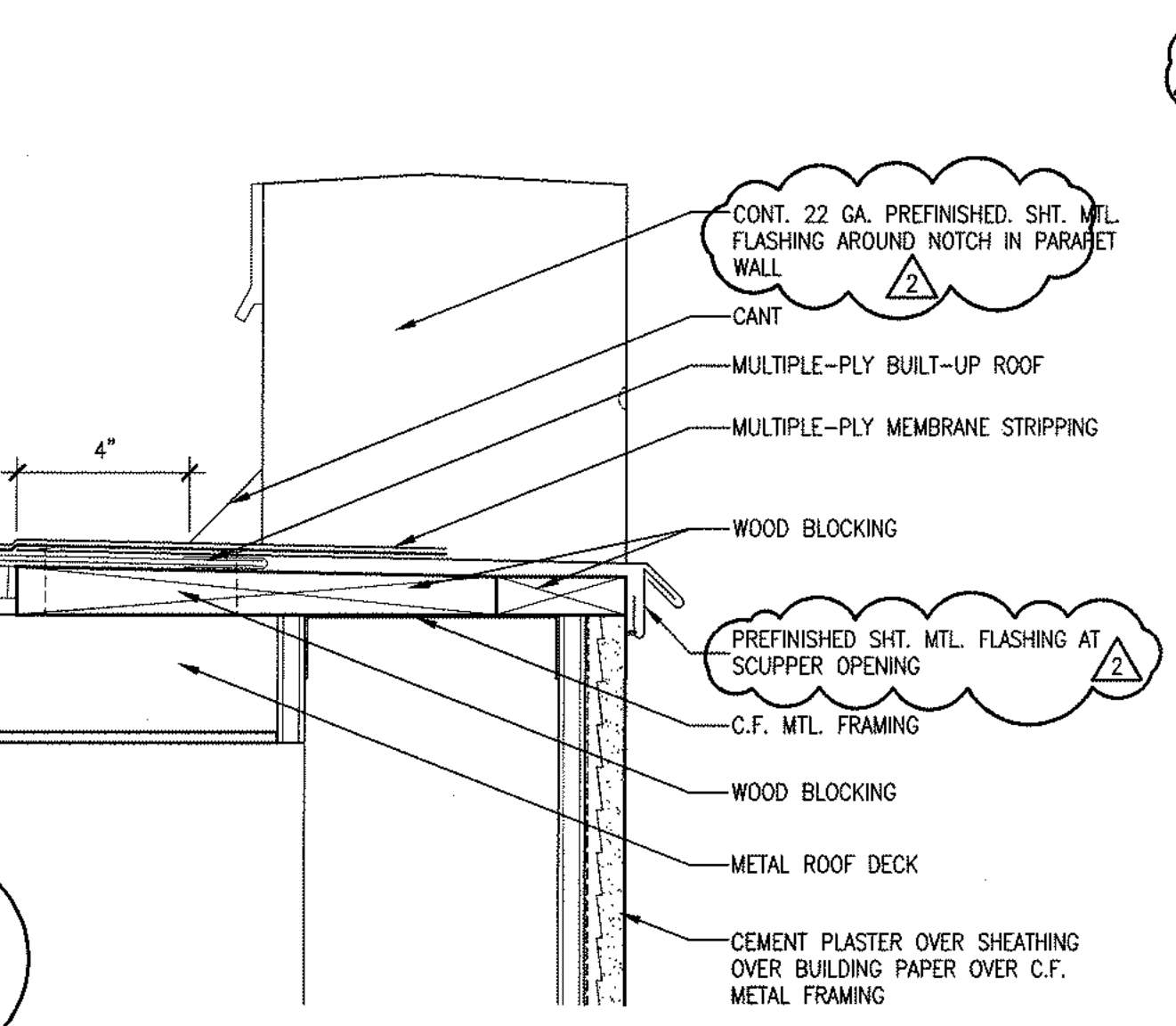
ROOF TRANSITION DETAIL 8
1 1/2" = 1'-0"



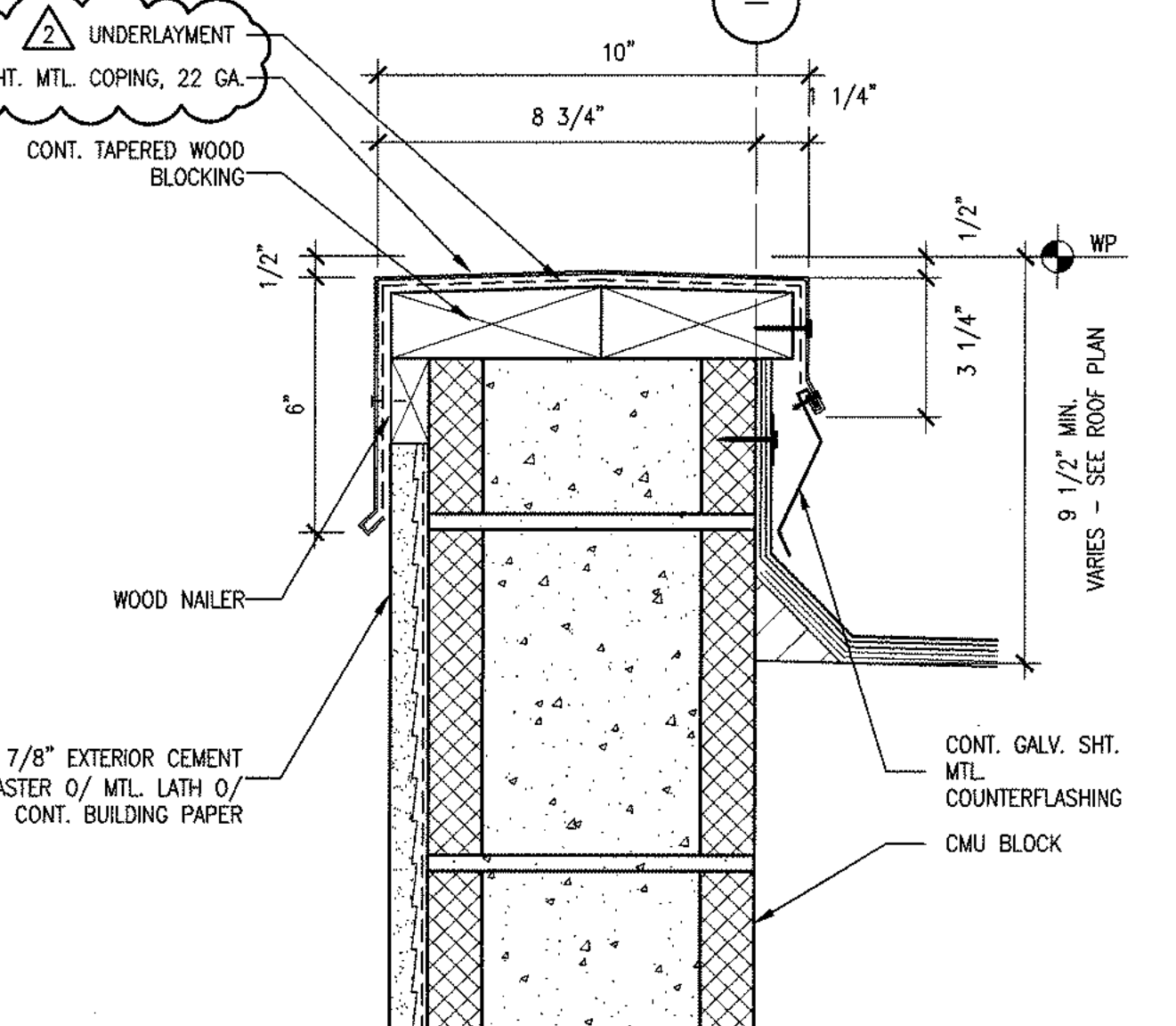
MECHANICAL EQUIPMENT CURB W/ SPRING MOUNT 4
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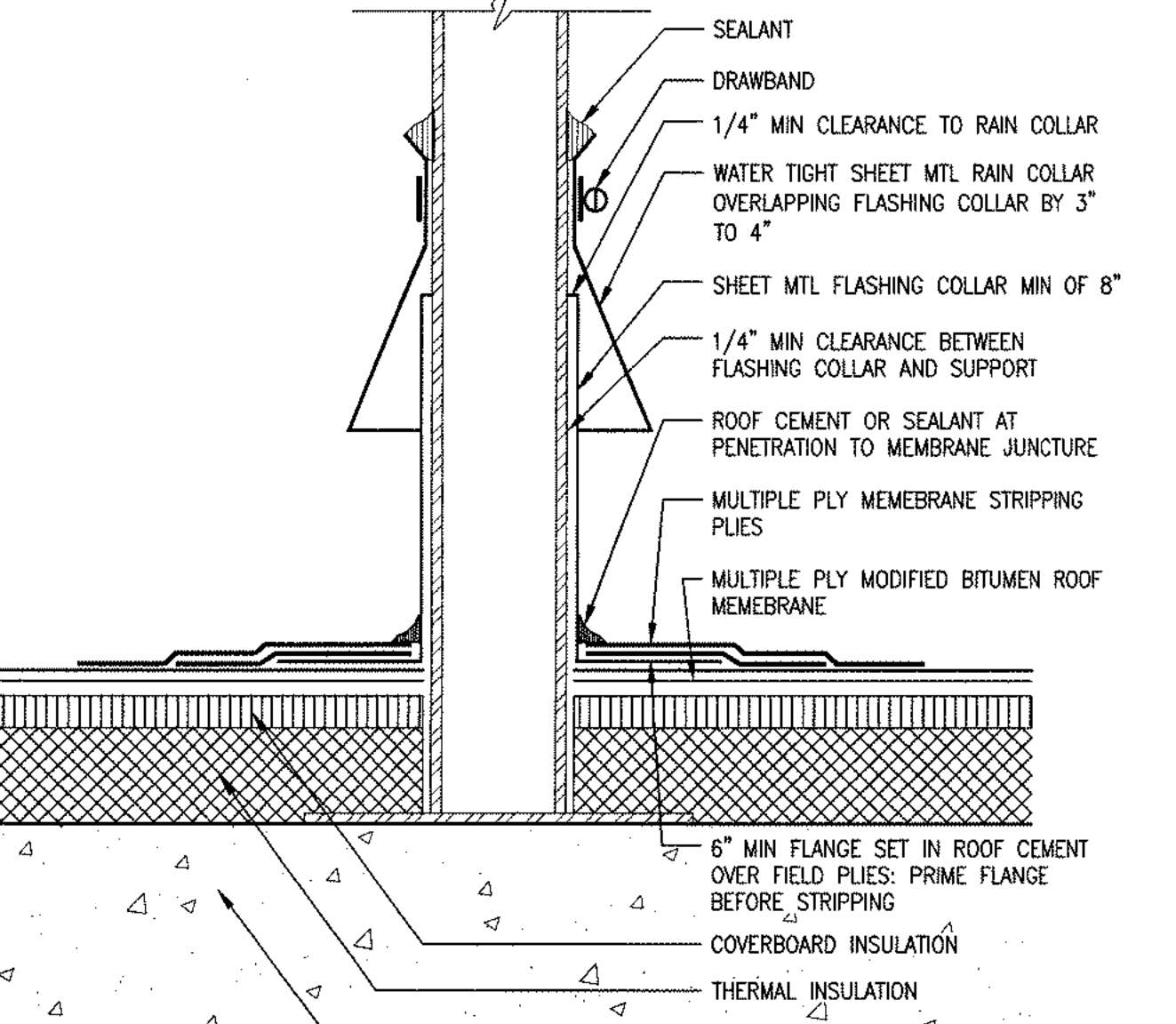
SPRING CURB 19
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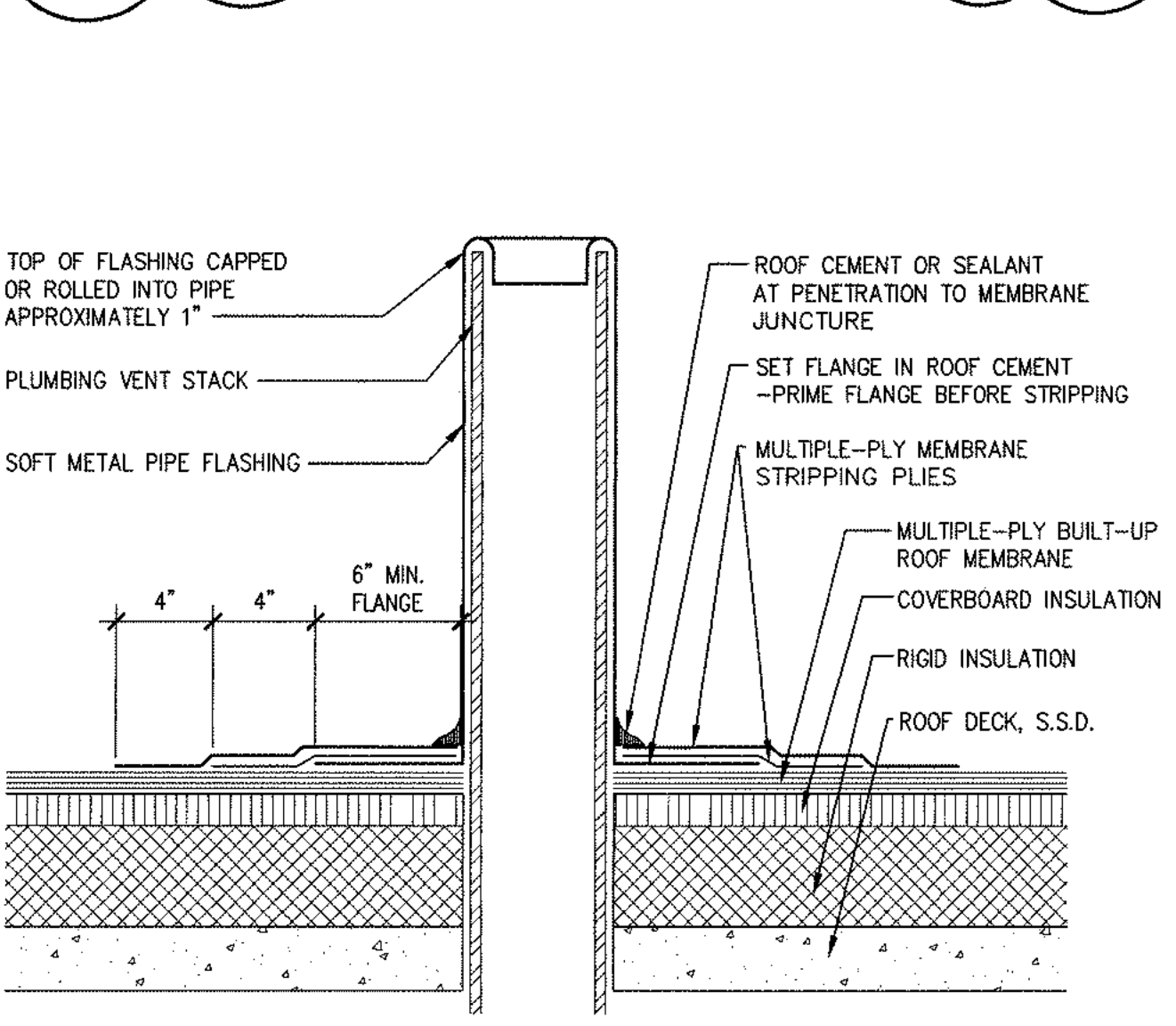
NOTCH IN CEMENT PLASTER PARAPET WALL 15
3" = 1'-0"



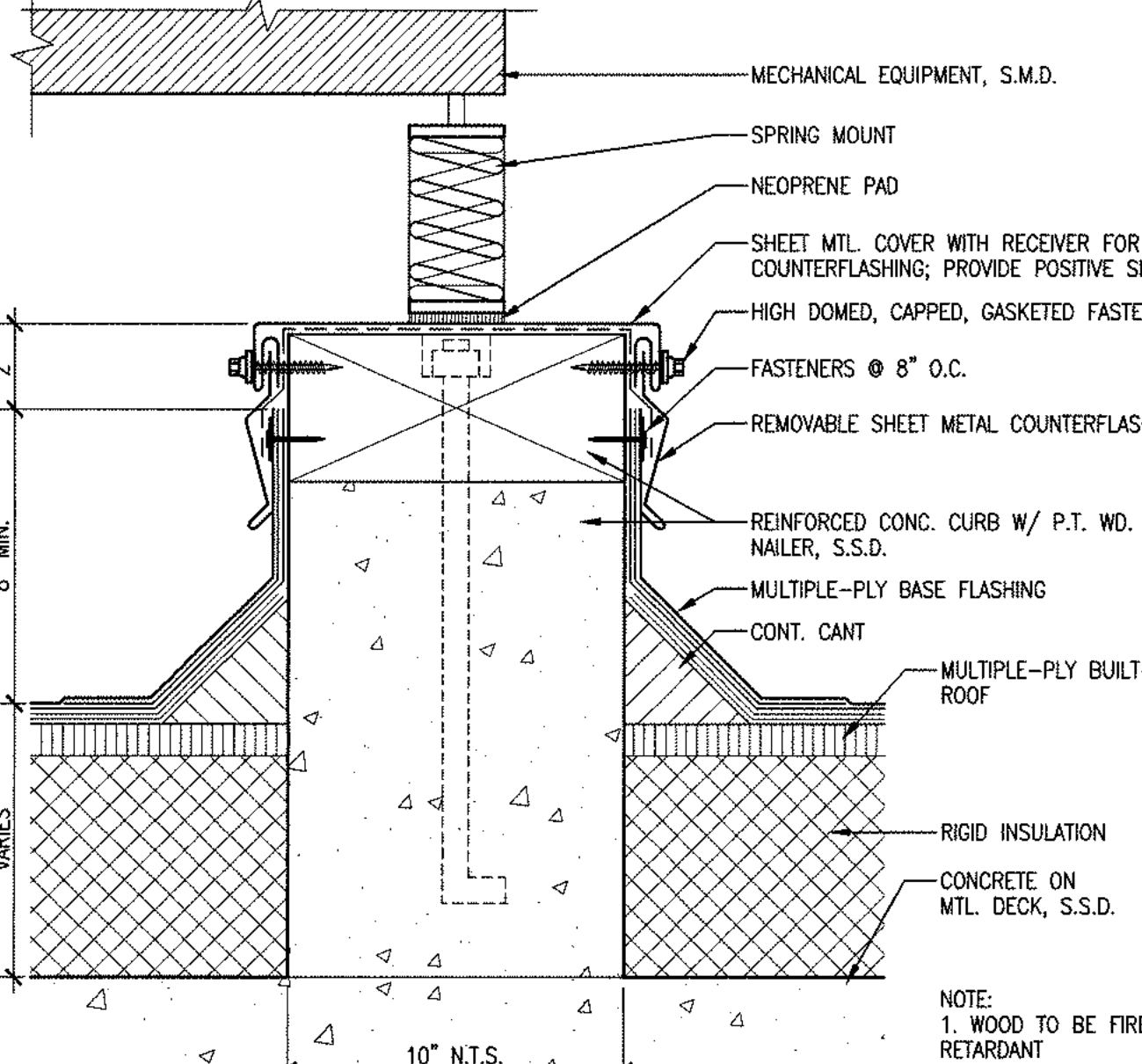
PARAPET WALL COPING AT ROOF TRANSITION 11
3" = 1'-0"



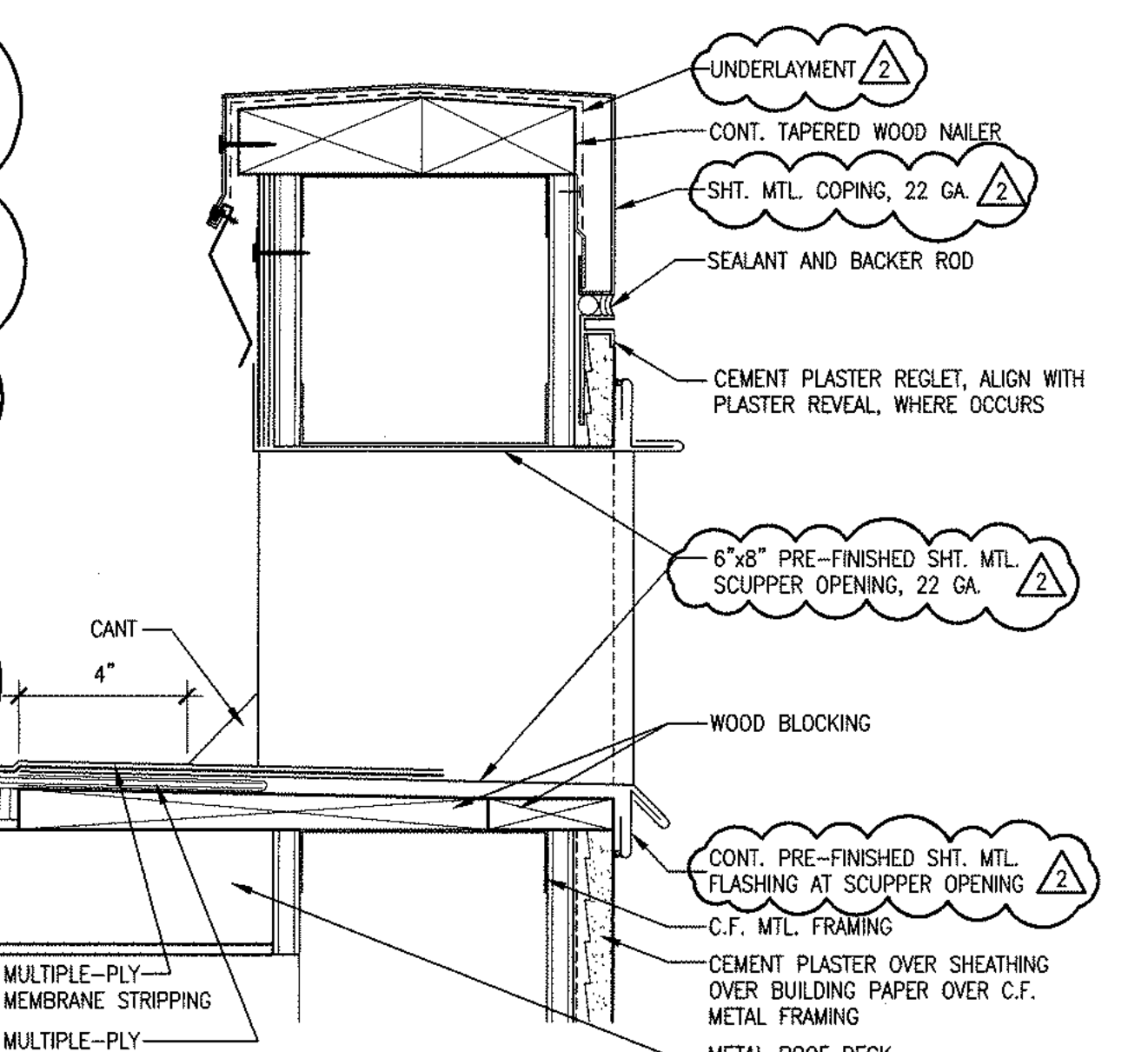
POST BASE DETAIL 7
3" = 1'-0"



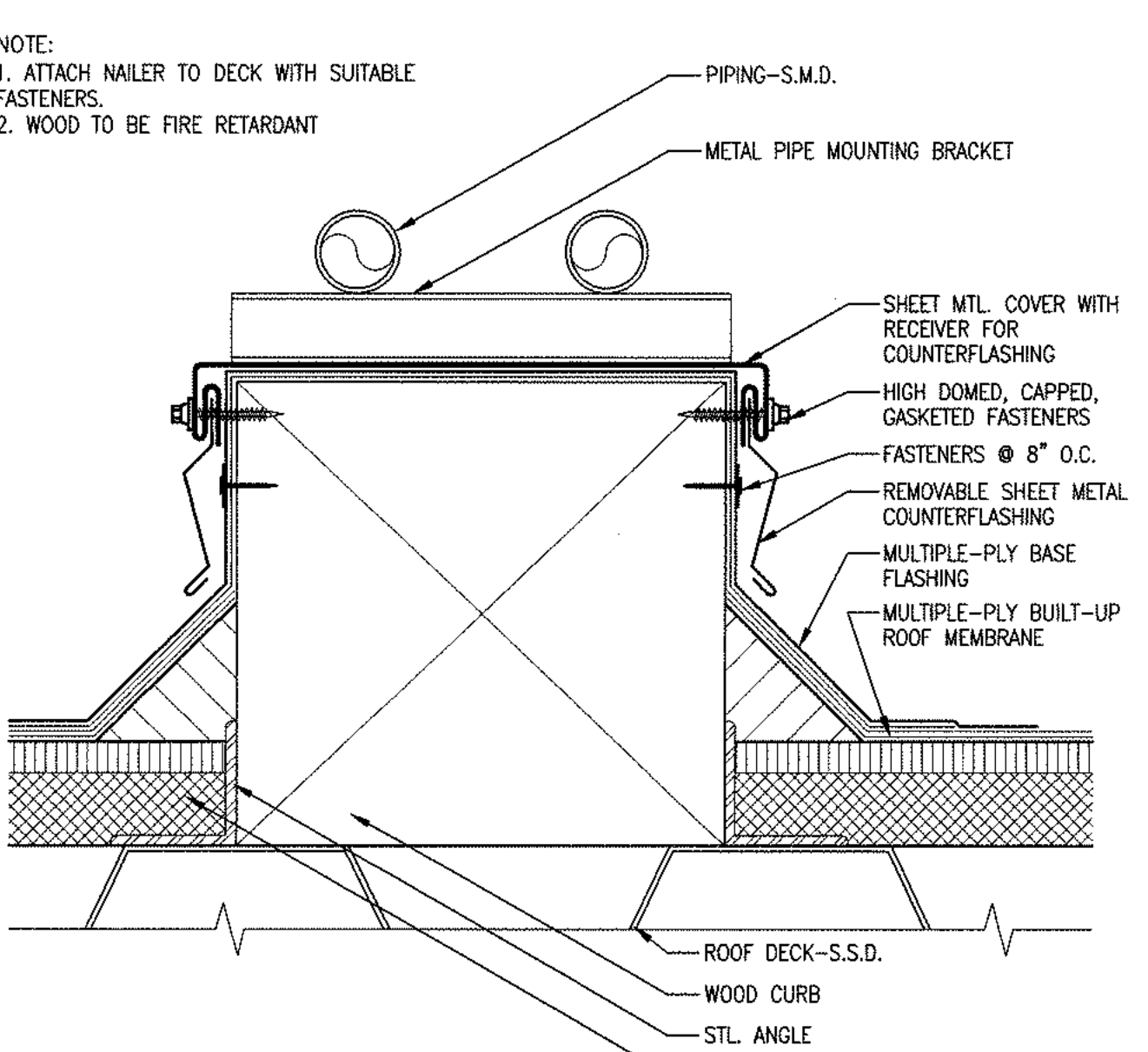
ROOF VENT DETAIL 3
3" = 1'-0"



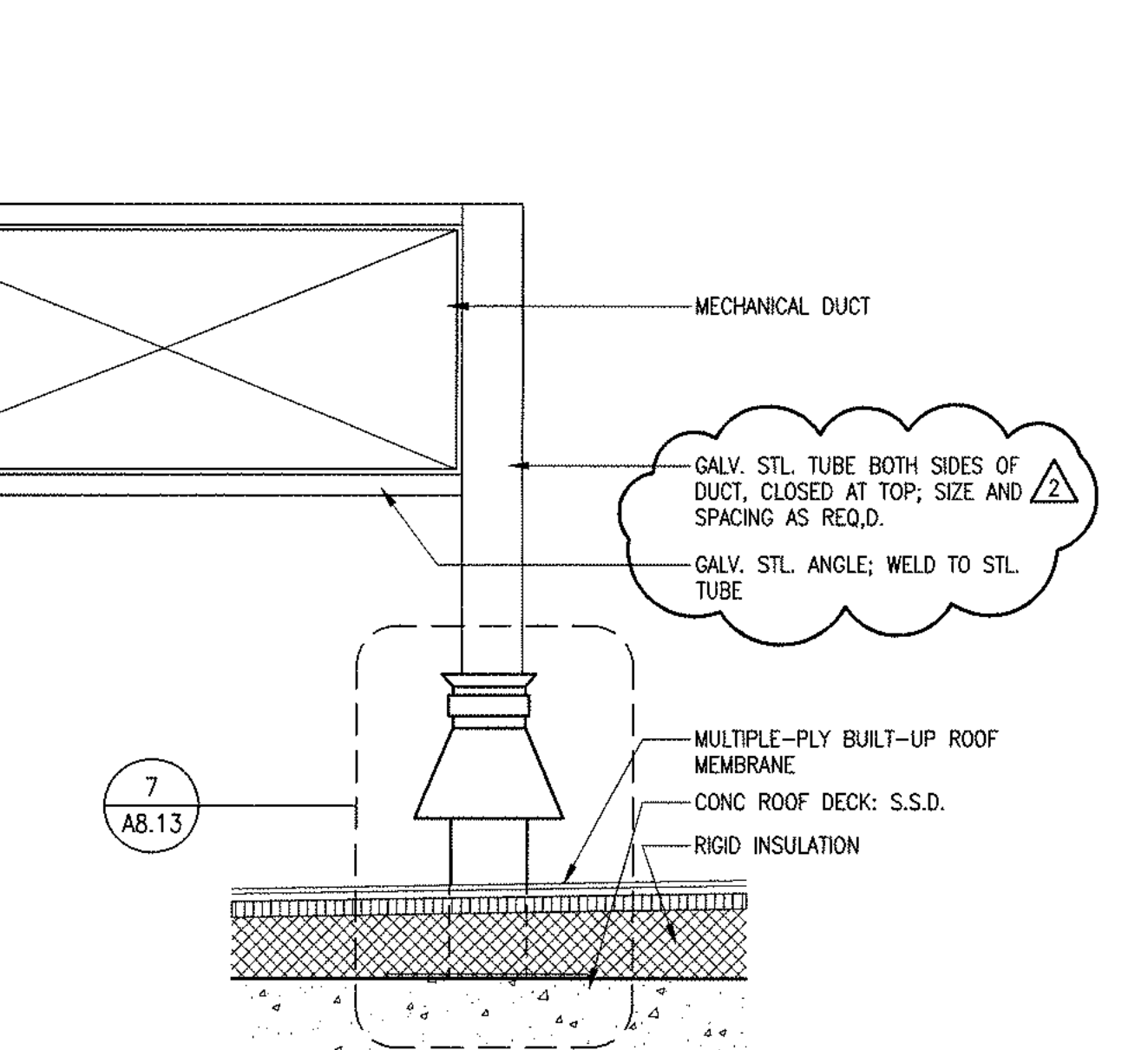
MECHANICAL EQUIPMENT CURB W/ SPRING MOUNT 18
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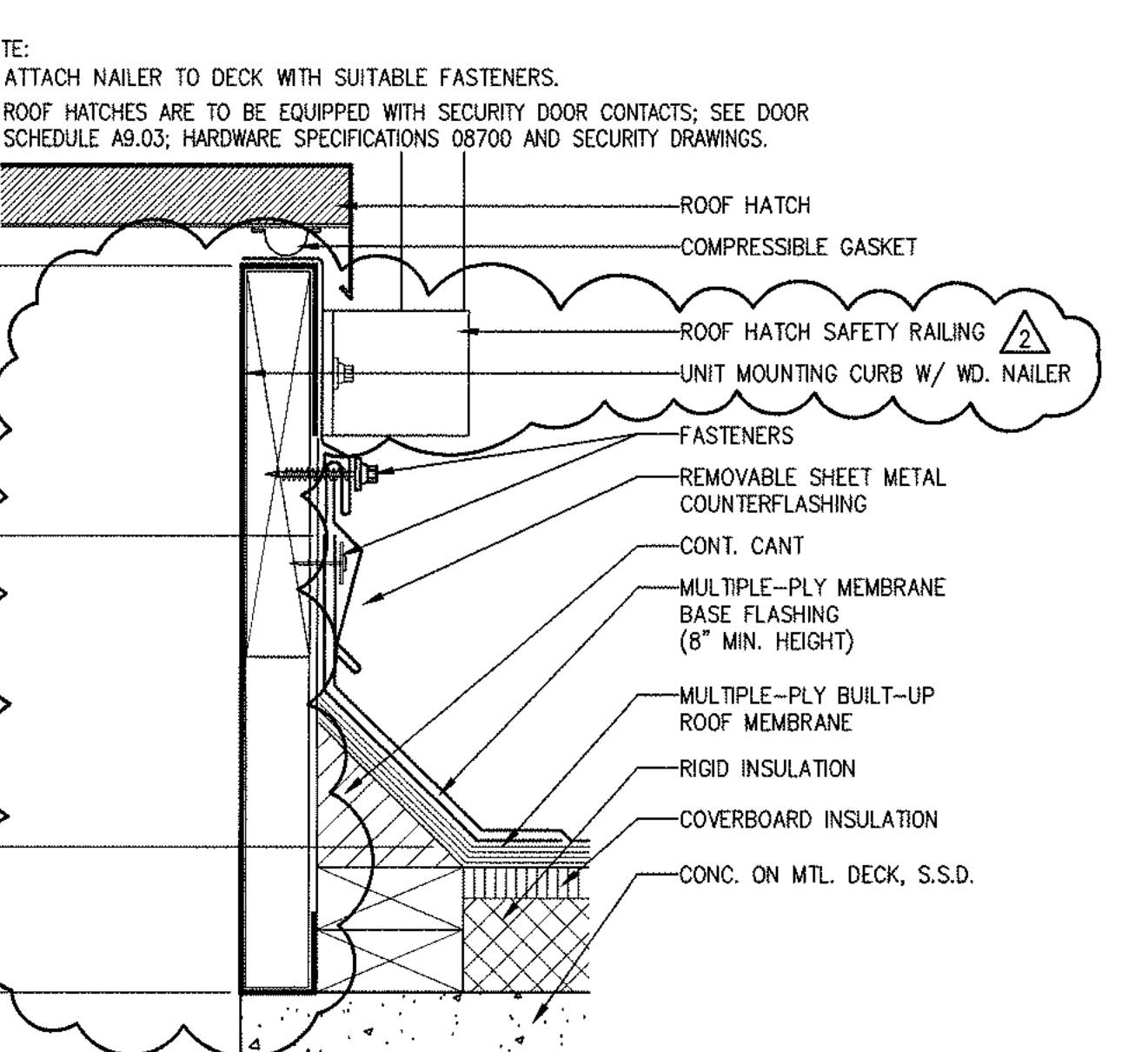
SCUPPER AT CEMENT PLASTER 14
3" = 1'-0"



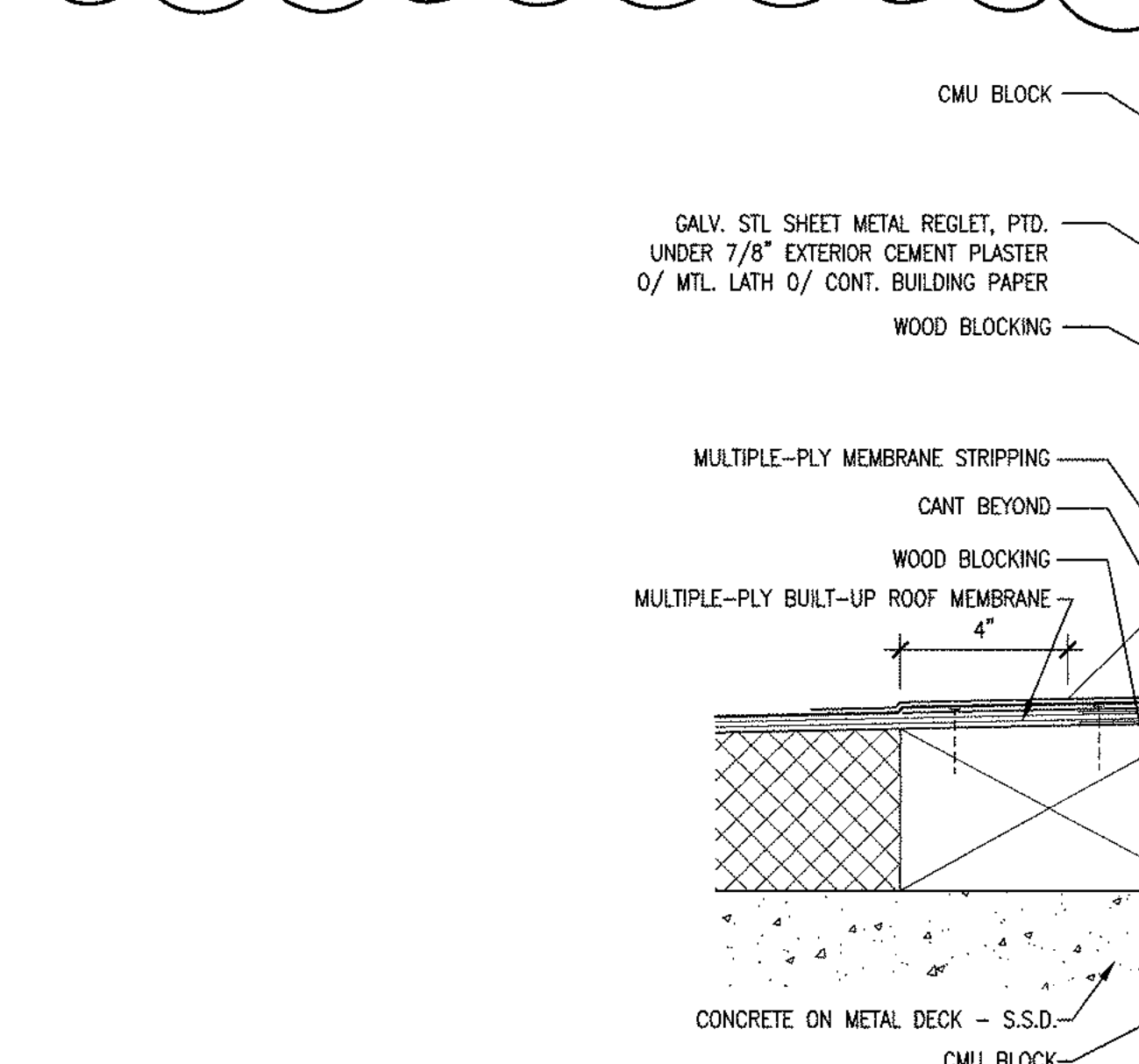
PIPE SUPPORT DETAIL 10
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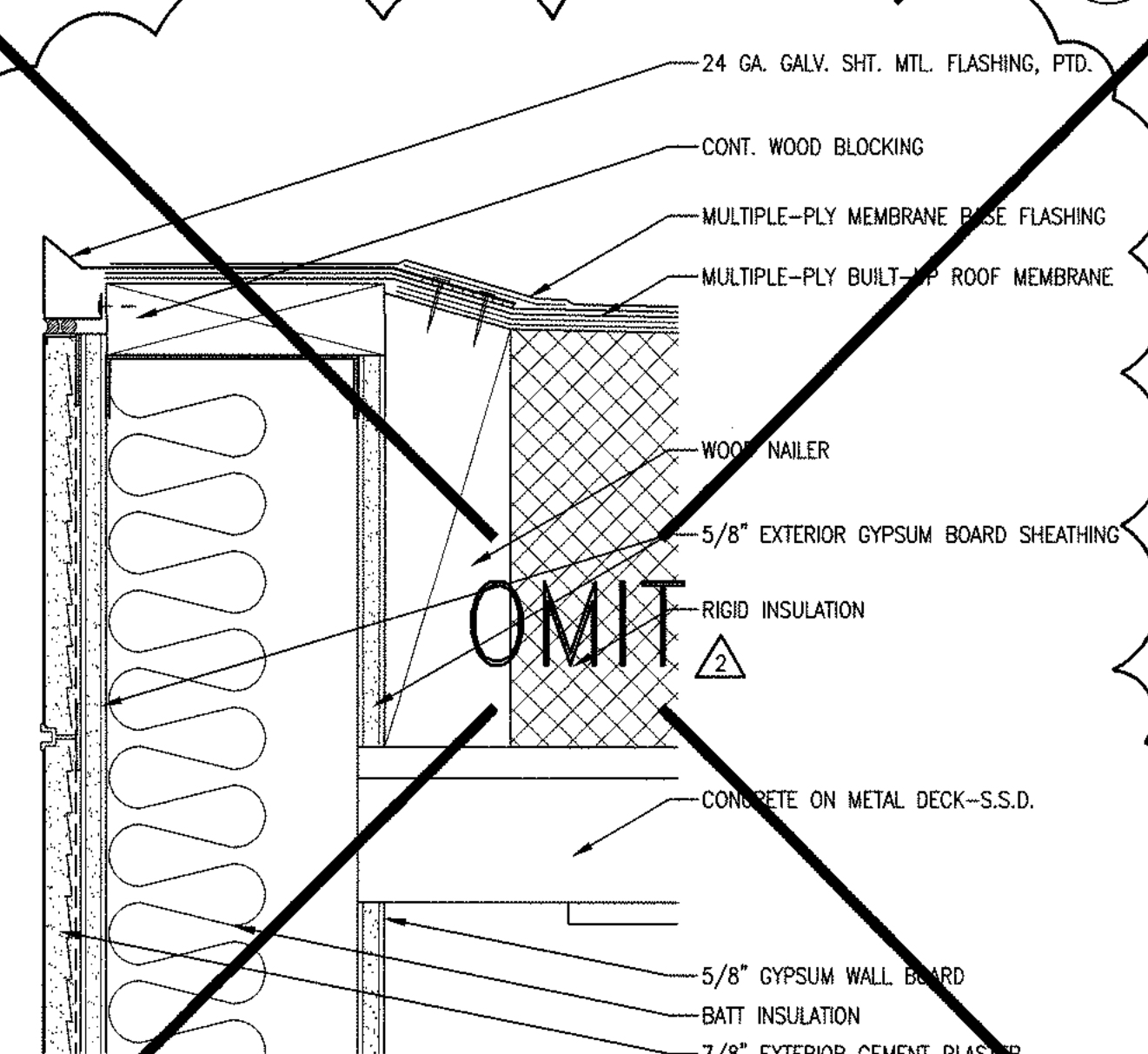
ROOFTOP MECHANICAL DUCT SUPPORT 6
1 1/2" = 1'-0"



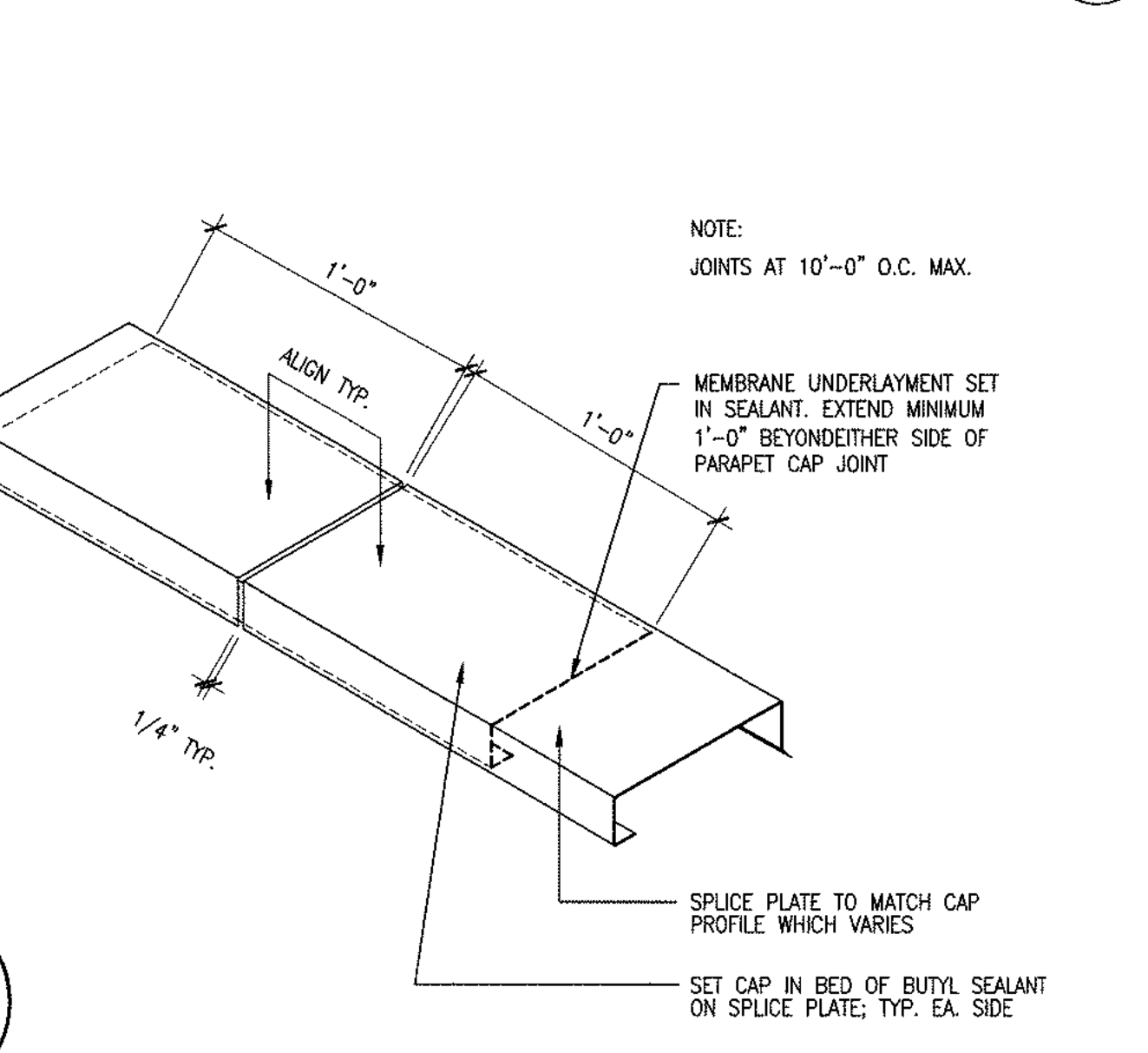
ROOF HATCH W/ SAFETY RAIL 2
3" = 1'-0"



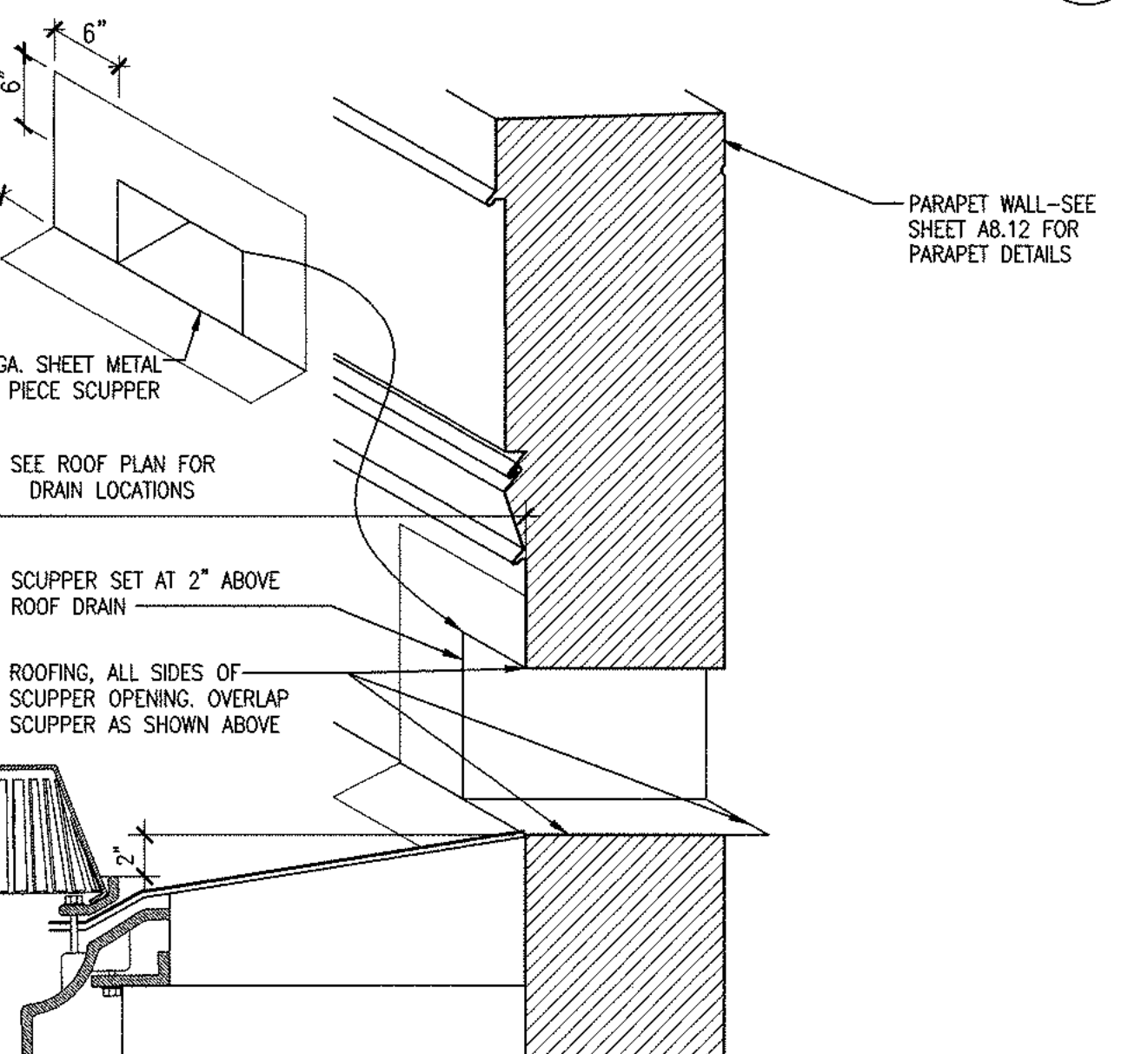
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3" = 1'-0"



ROOF EDGE DETAIL 9
3" = 1'-0"



PARAPET CONCEALED SPICE JOINT 5
1 1/2" = 1'-0"



SCUPPER DETAIL 1
1 1/2" = 1'-0"

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2003.05.30 ADDENDUM NO. 2

NO. C17420
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STATE OF CALIFORNIA

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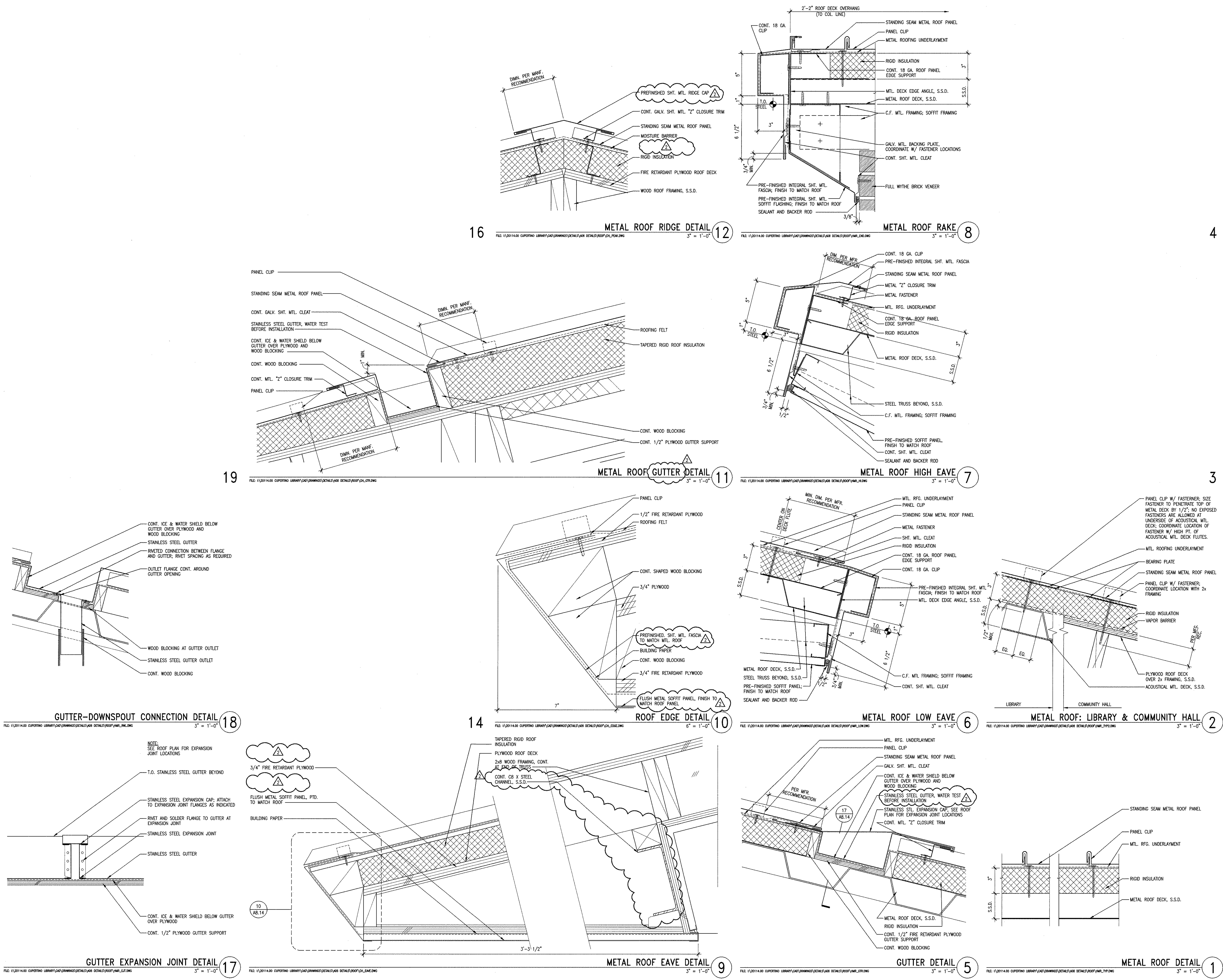
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ROOF
DETAILS

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 2003.05.30
 ADDENDUM NO. 2

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 EXP. 3/31/06
 STATE OF CALIFORNIA

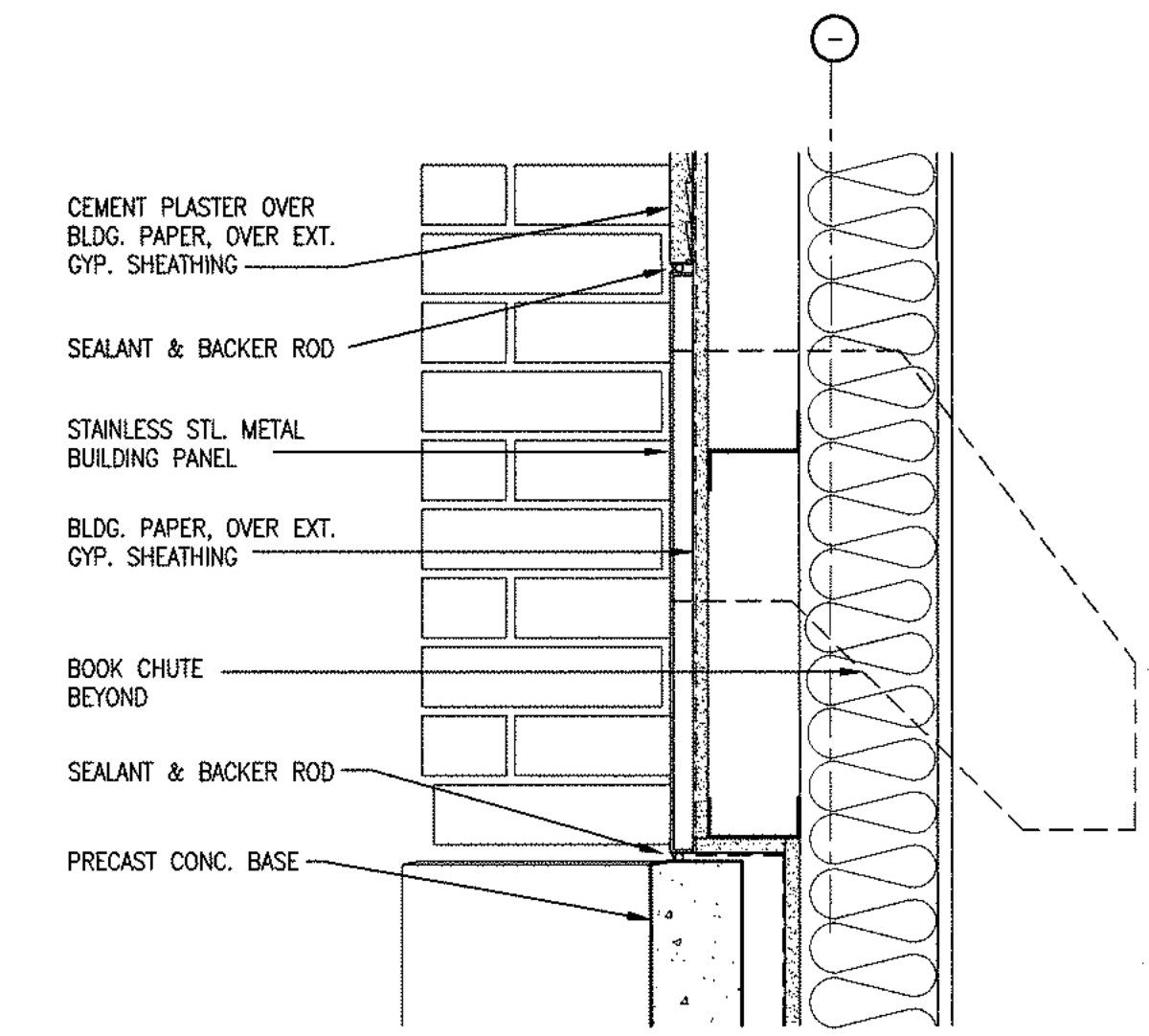
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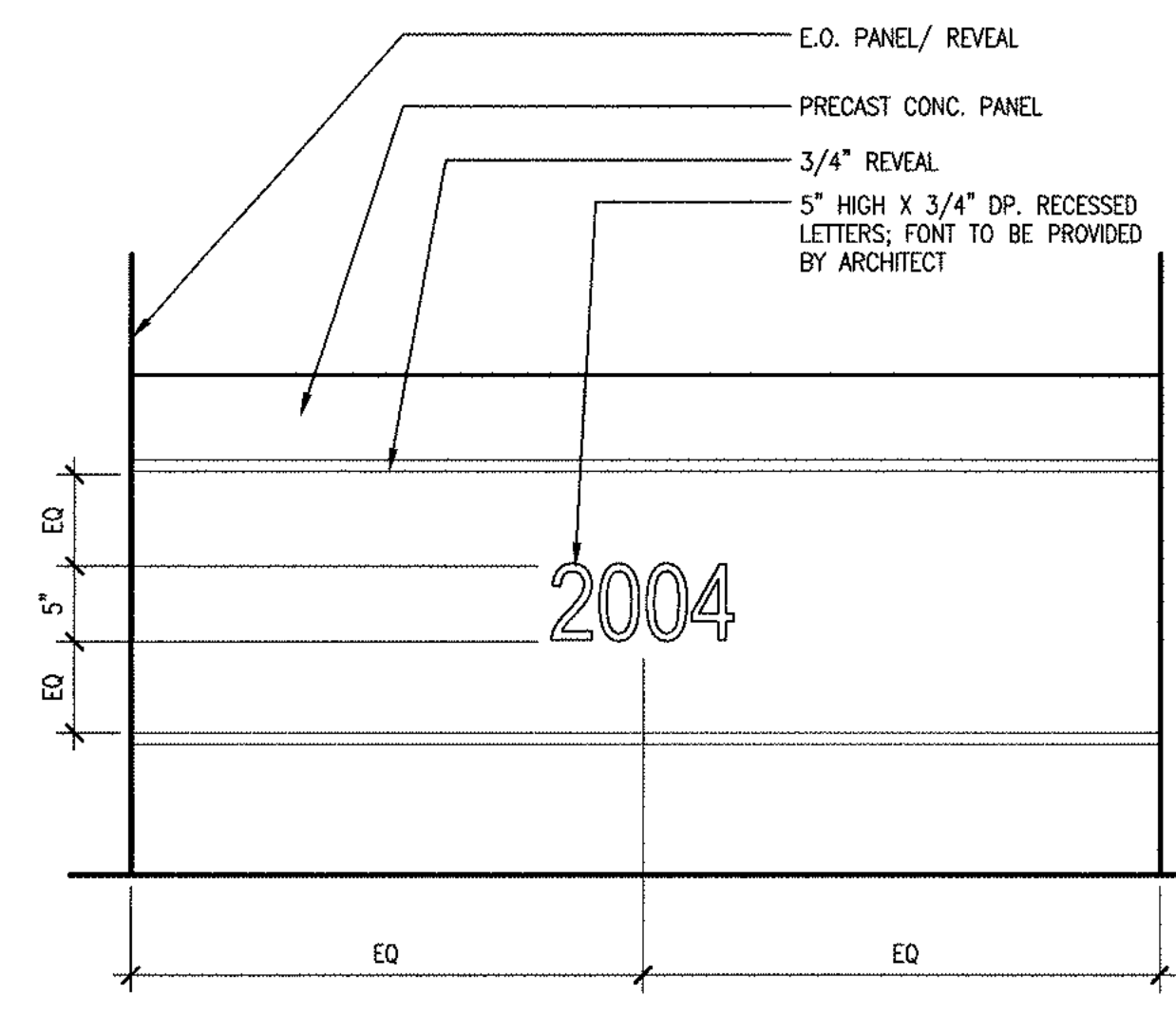
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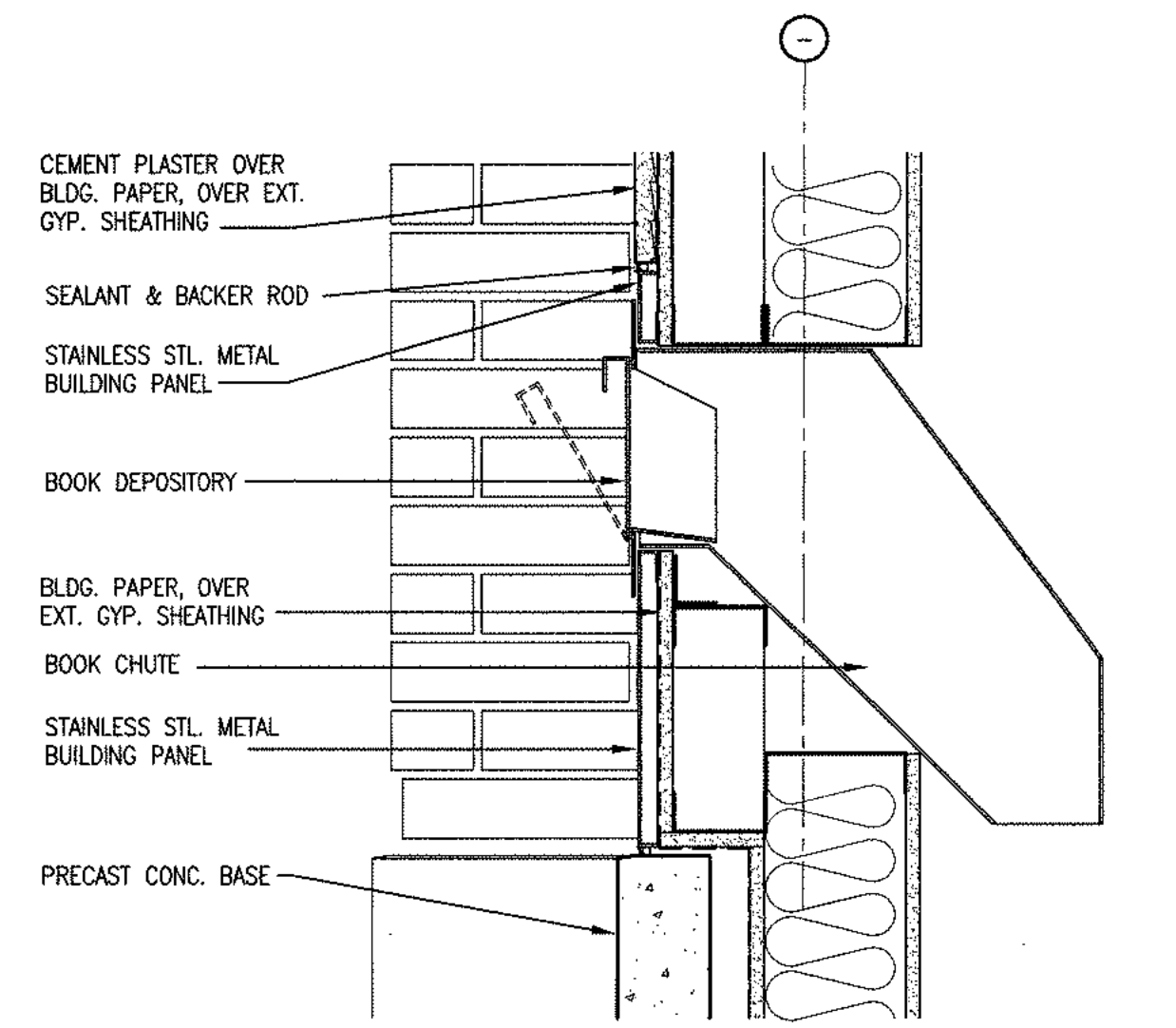
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ST. STEEL METAL BLDG. PANEL @ BOOK DEPOSITORY 5
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CORNERSTONE DETAIL 2
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BOOK DEPOSITORY 1
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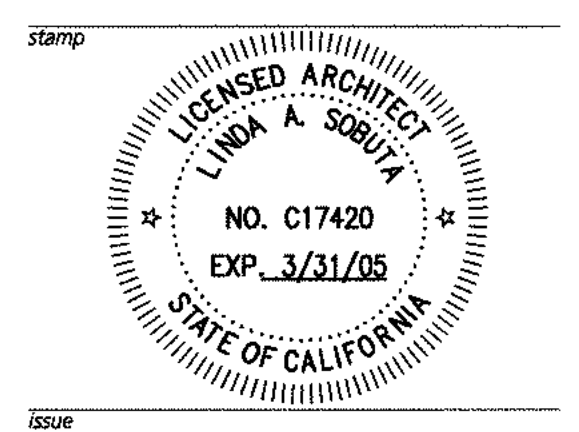
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11-29-04 Updated Contract Documents



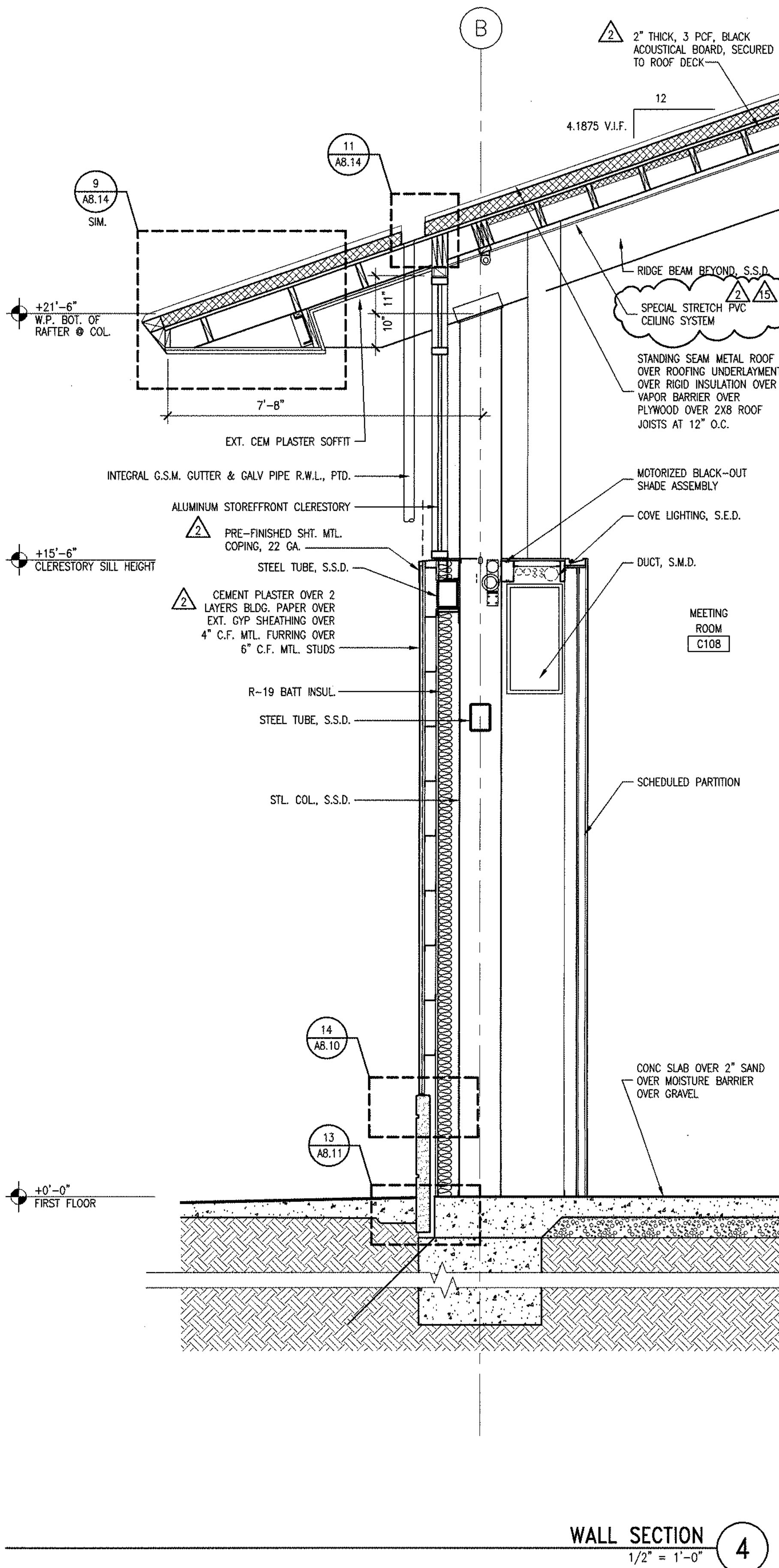
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EXTERIOR DETAILS

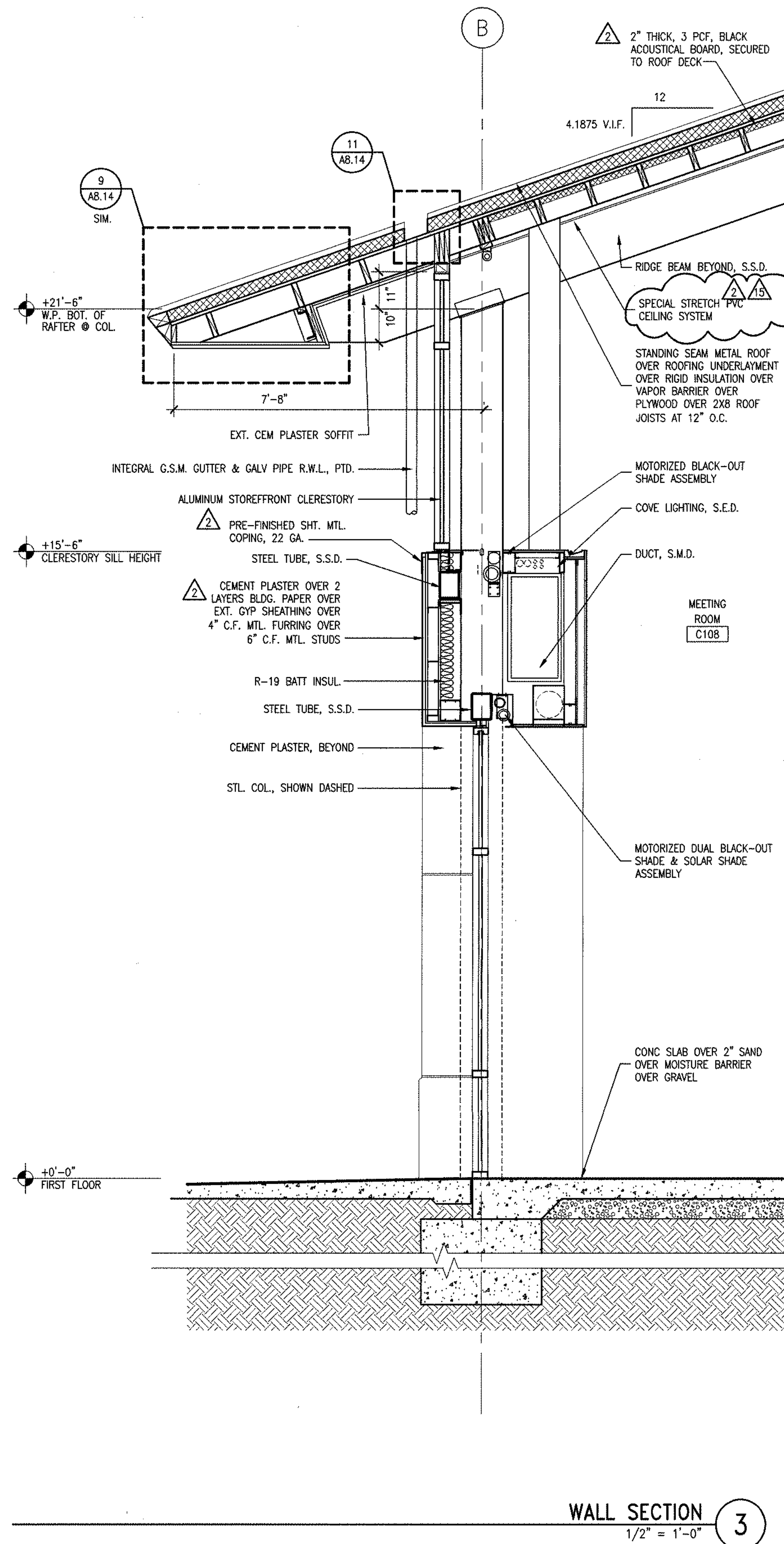
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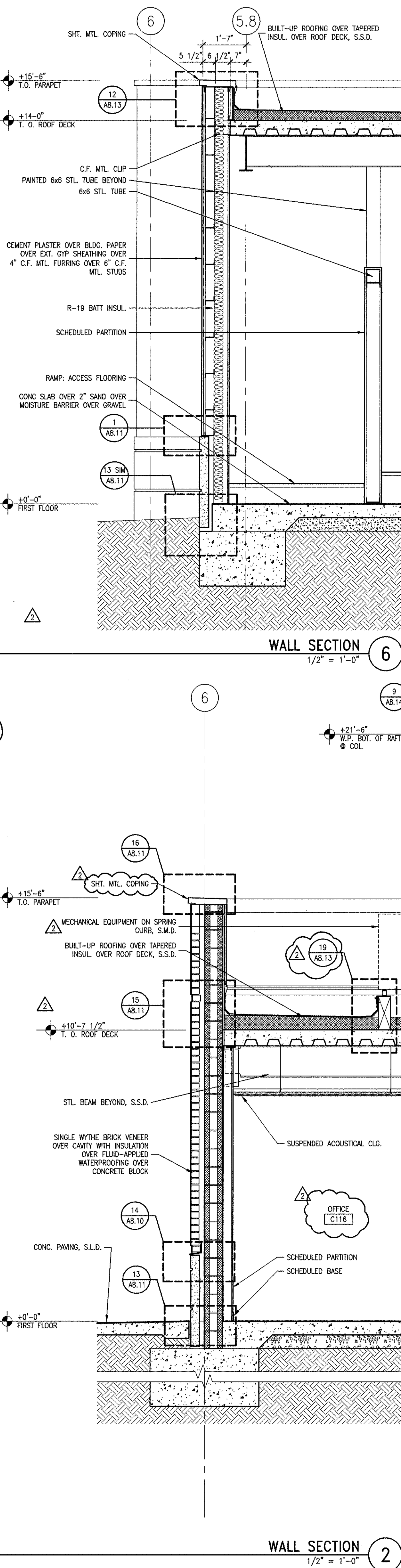
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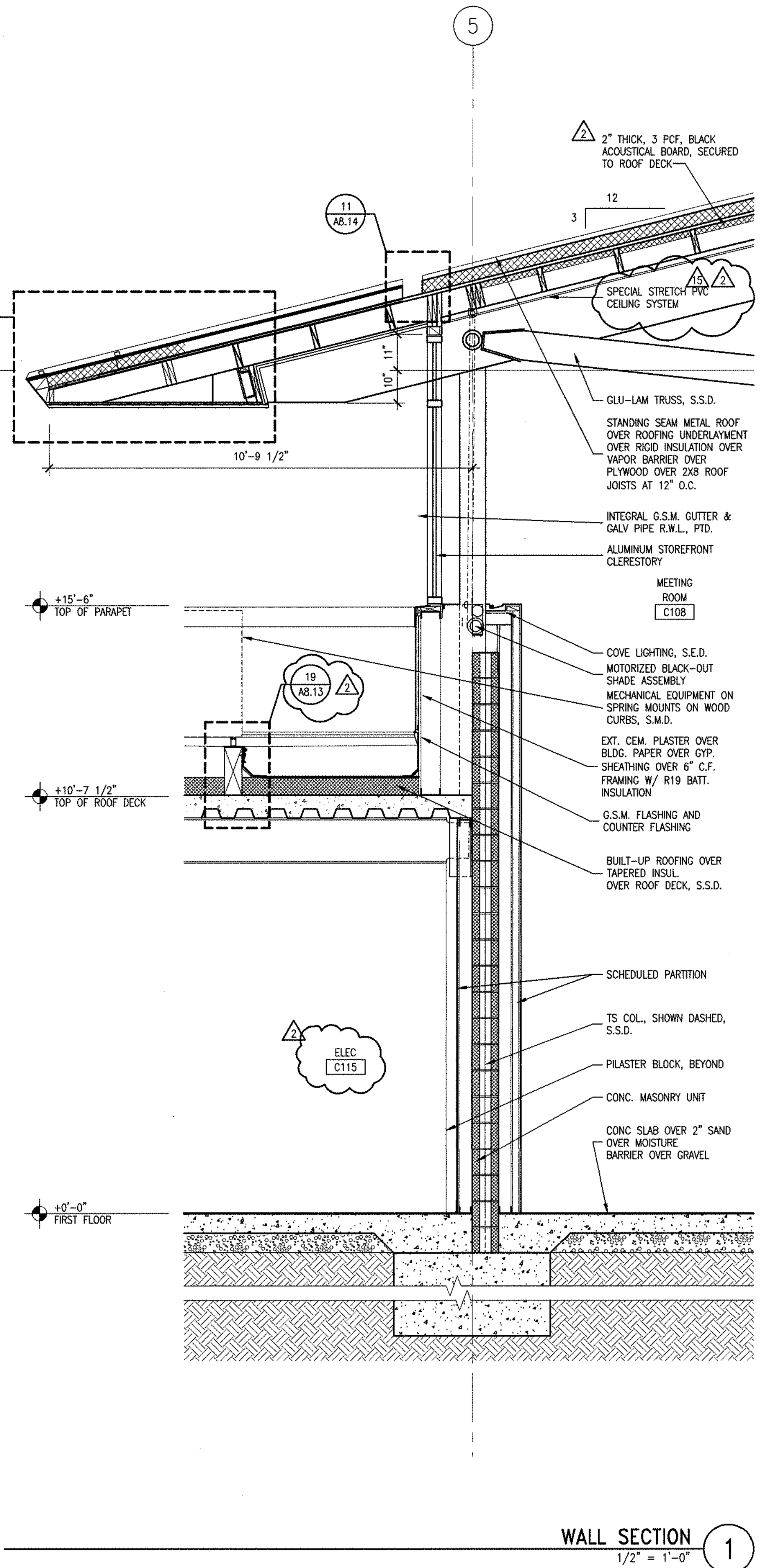
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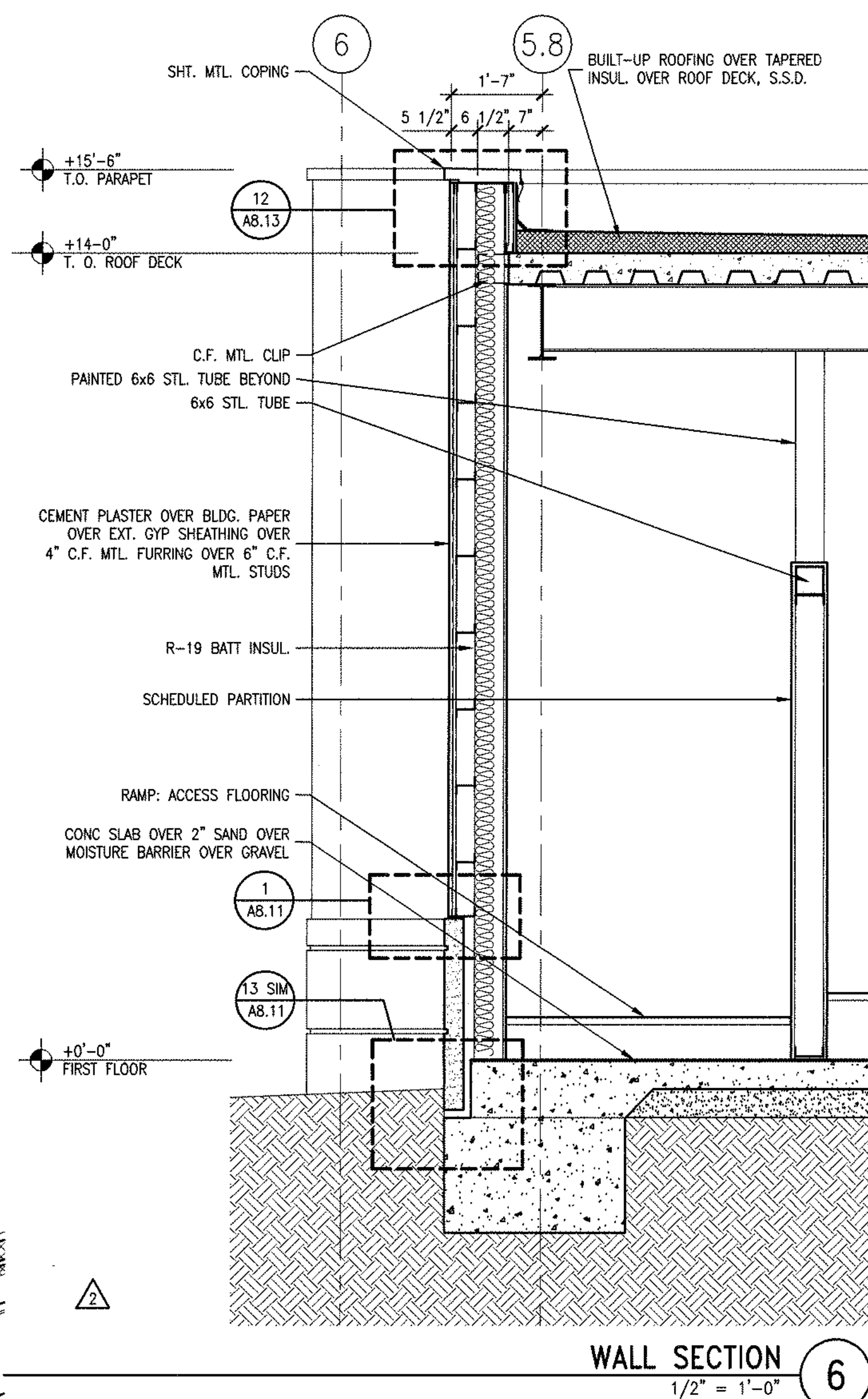
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WALL SECTION 2
1/2" = 1'-0"



WALL SECTION 1
1/2" = 1'-0"



WALL SECTION 6
1/2" = 1'-0"

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 2003.11.03
 2003.05.30
 2003.11.03

ADDENDUM NO. 2
 CCD 13 DELTA 15

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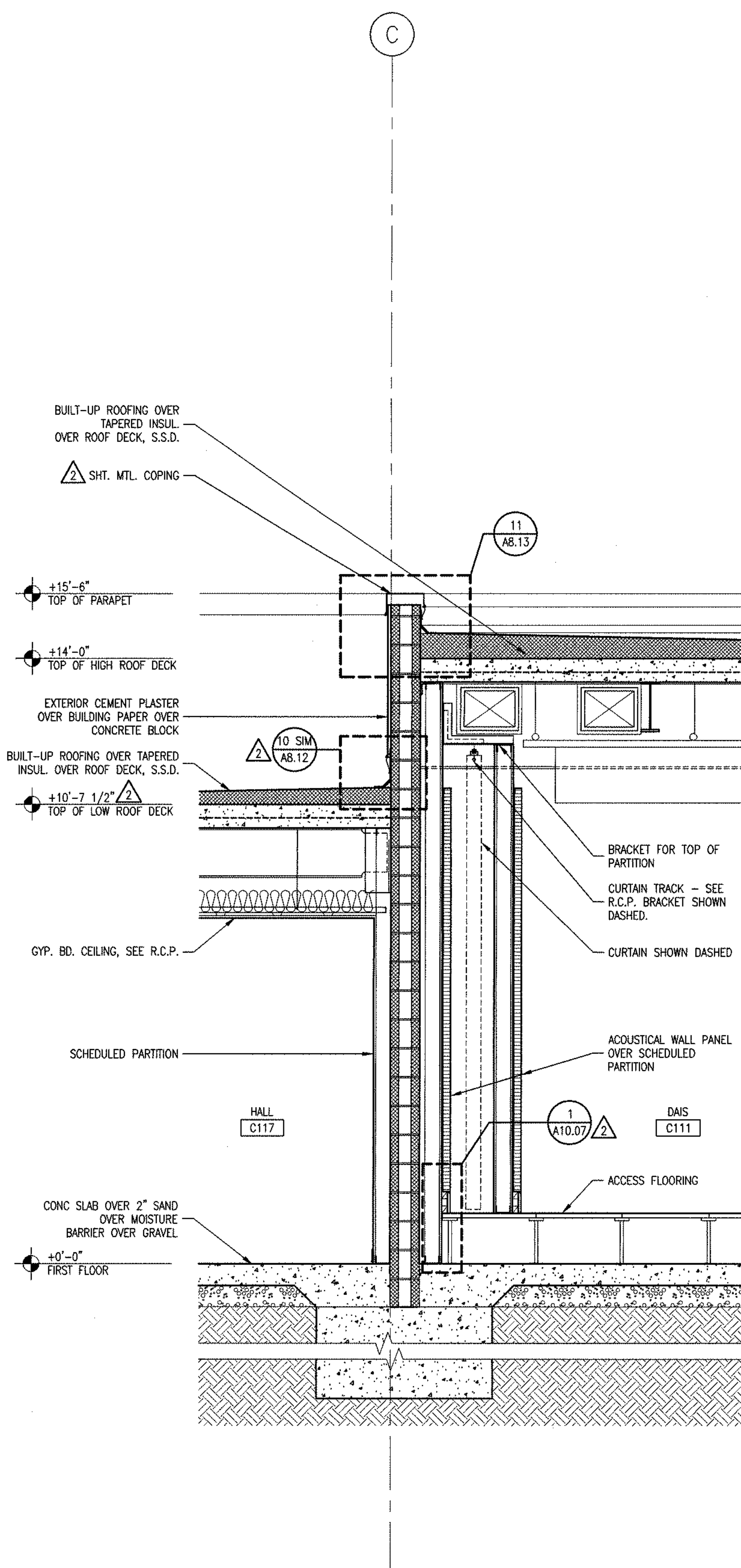
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 LISA A. SQUIP
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

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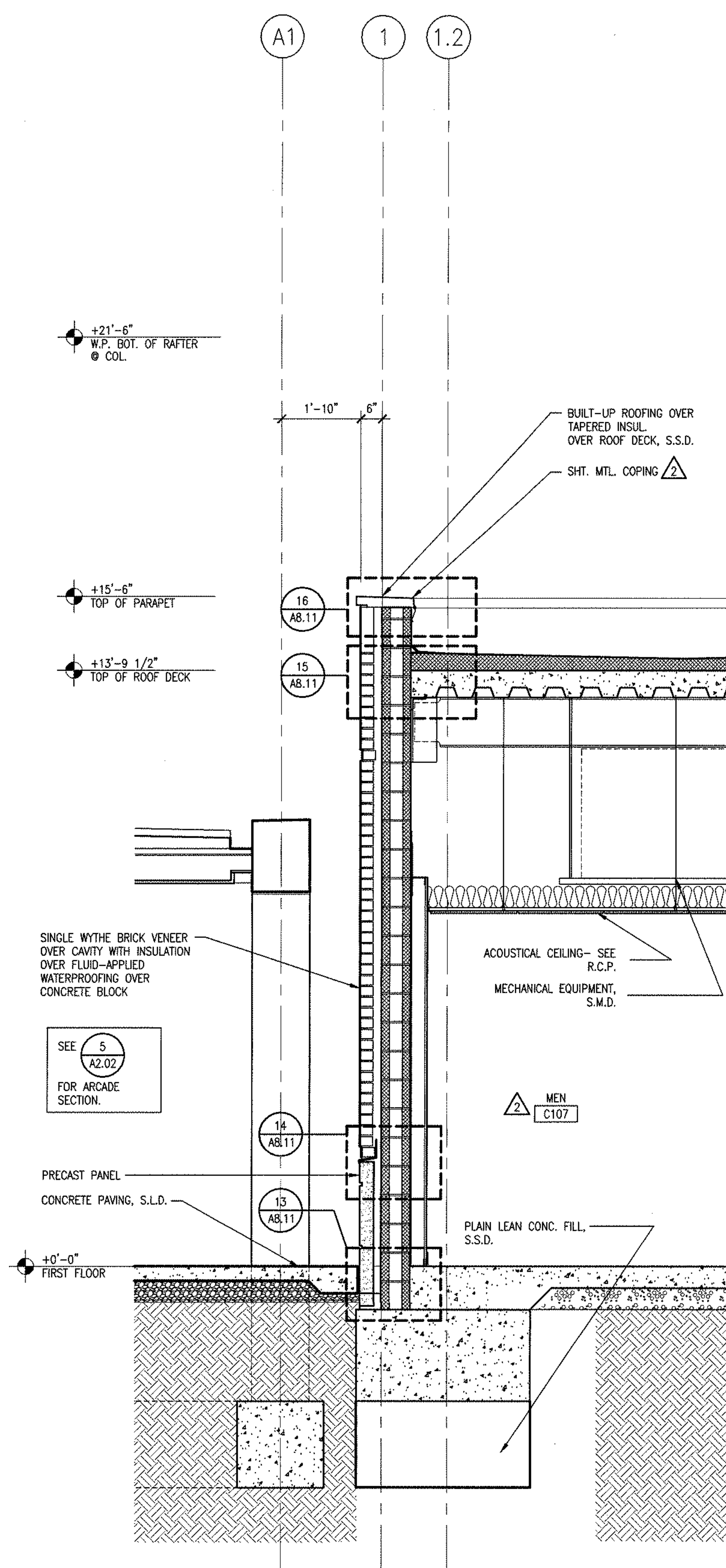
COMMUNITY
 HALL
 WALL SECTIONS

SCALE: 1/2" = 1'-0"
 DATE: 2003.04.18
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 PROJECT NUMBER: 20114.00
 SHEET NUMBER: A8.20

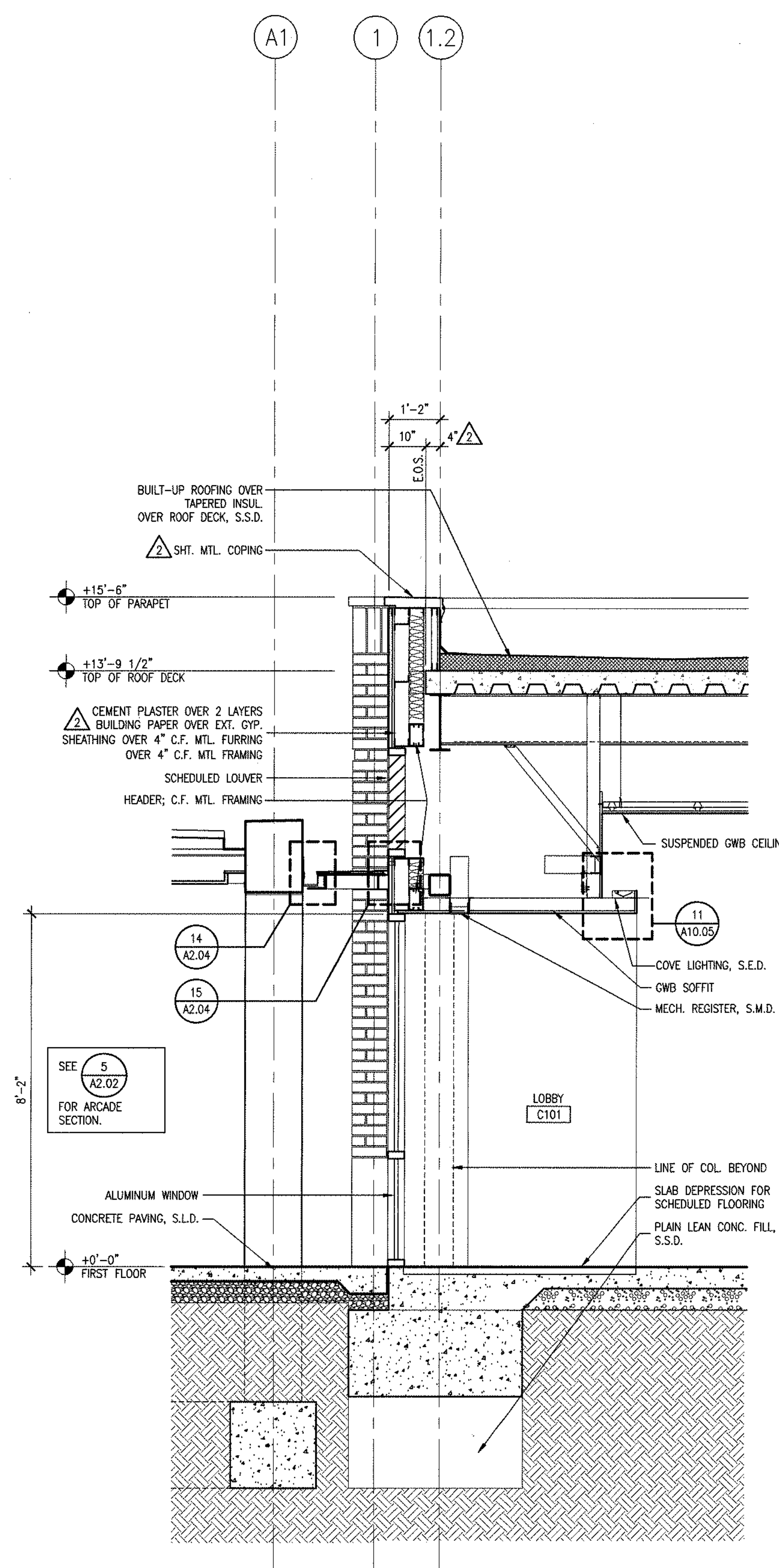
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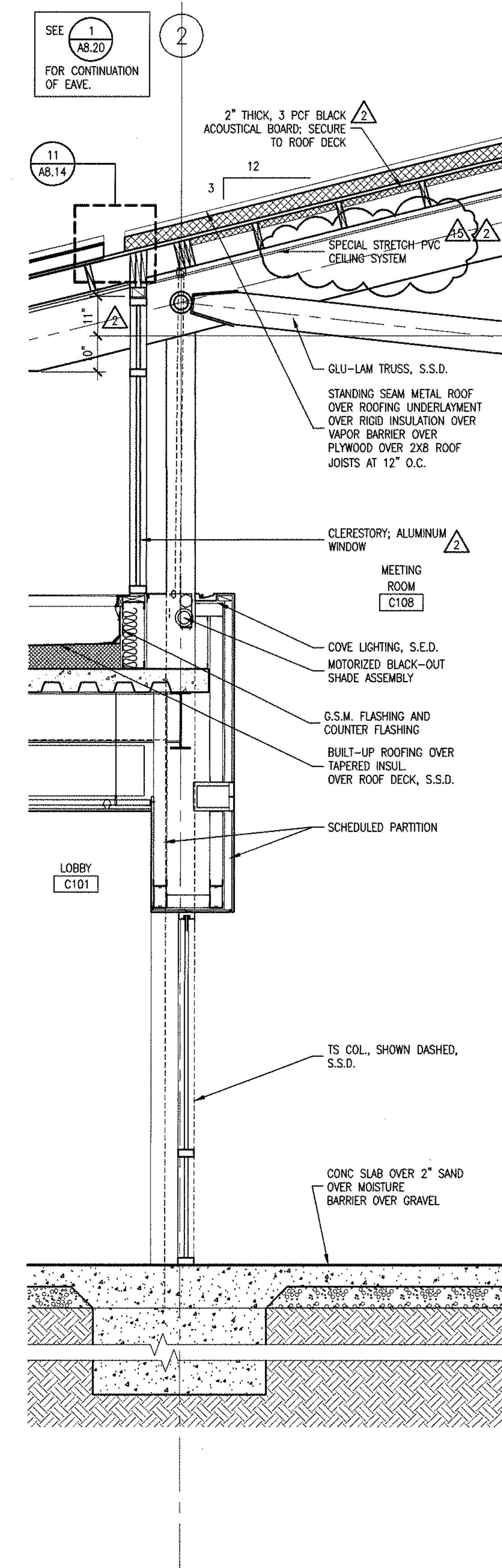
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WALL SECTION 3
1/2" = 1'-0"



WALL SECTION 2
1/2" = 1'-0"



WALL SECTION 1
1/2" = 1'-0"

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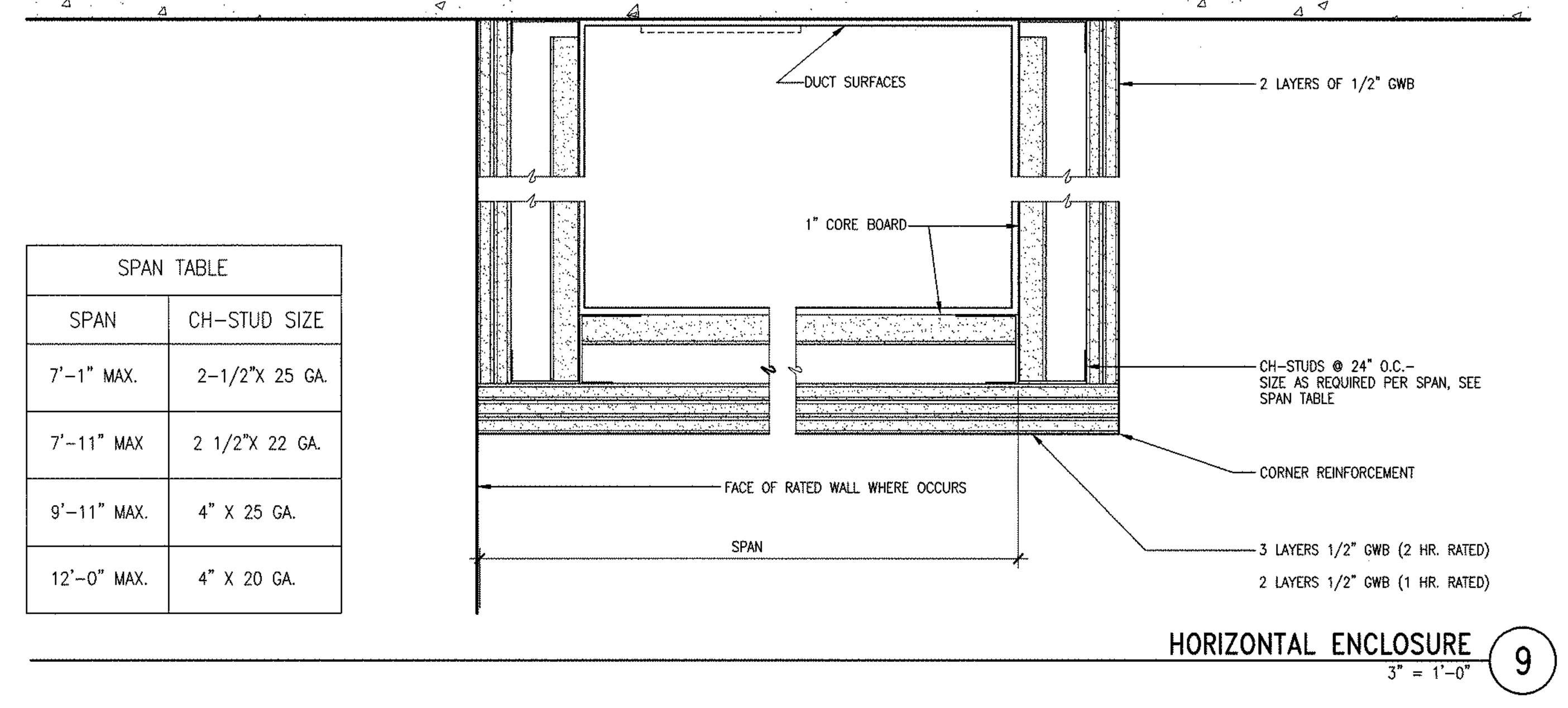
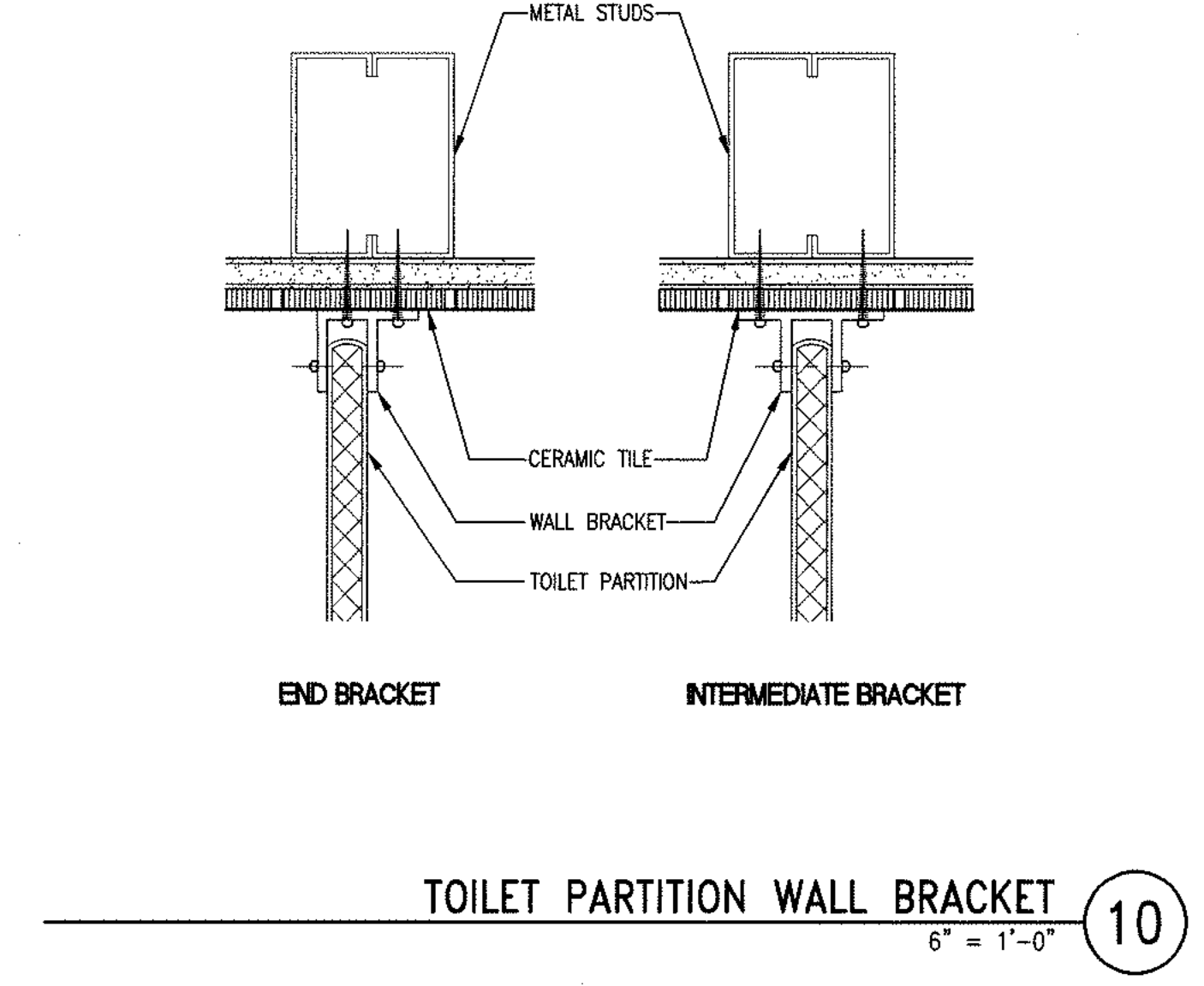
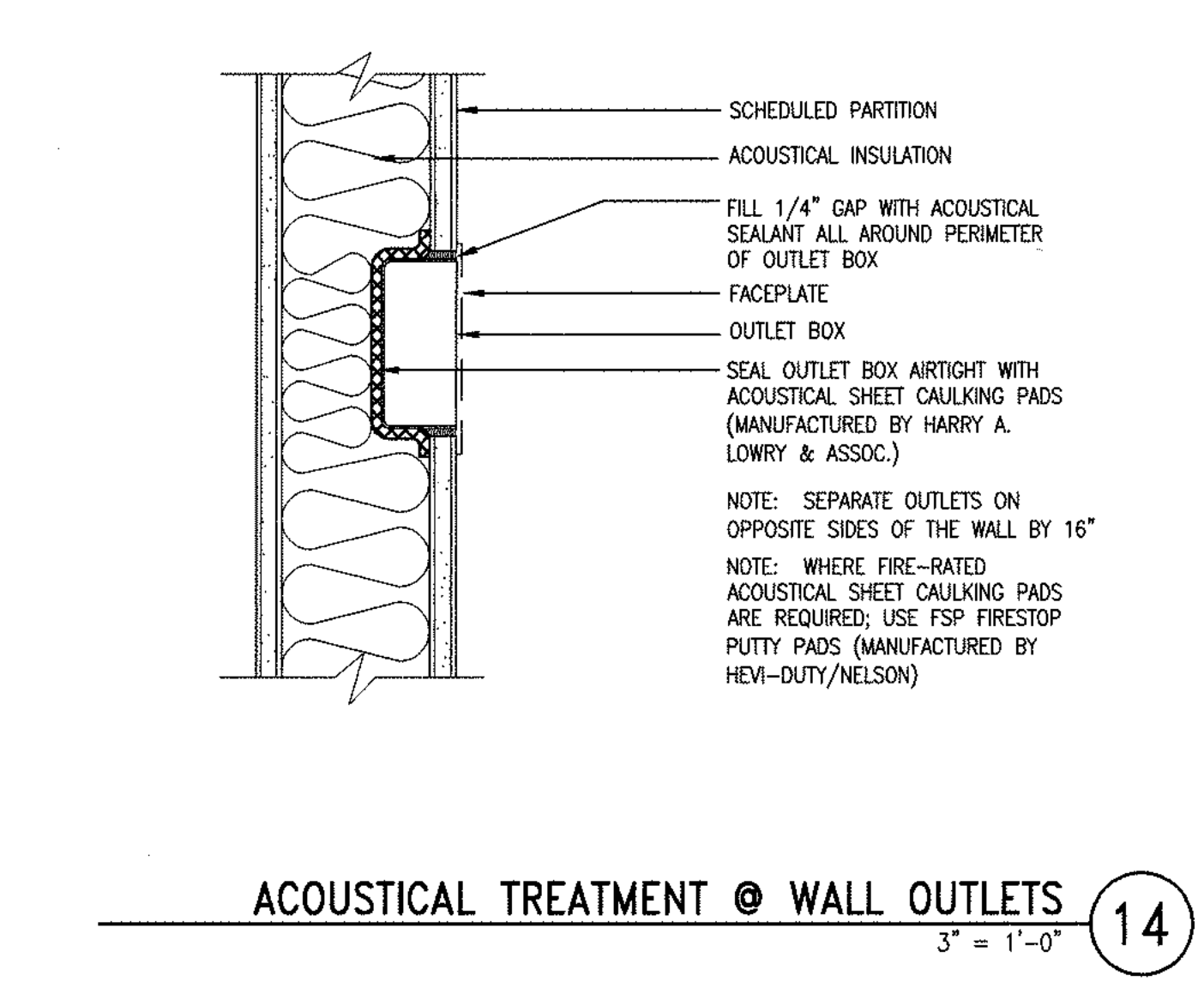
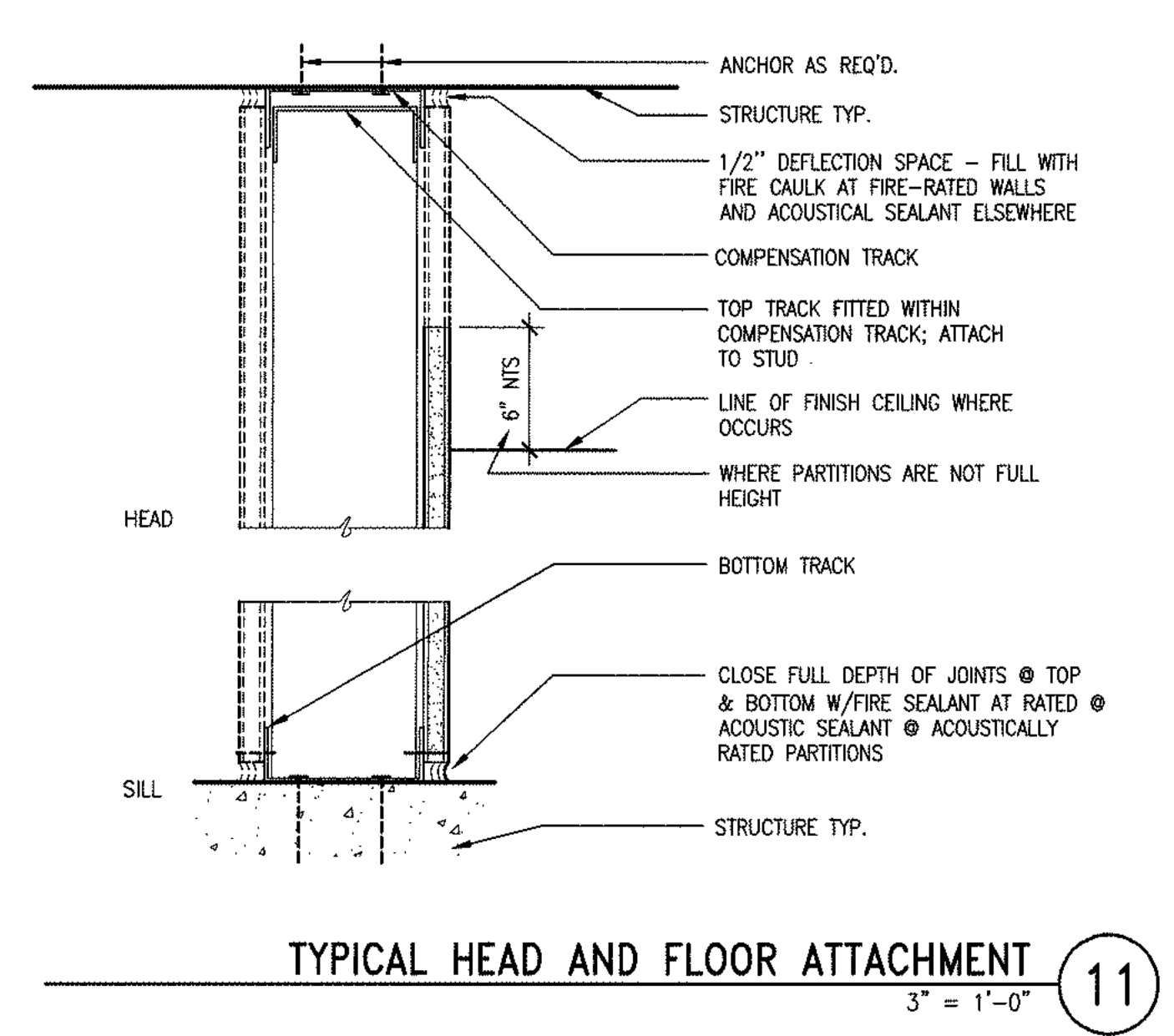
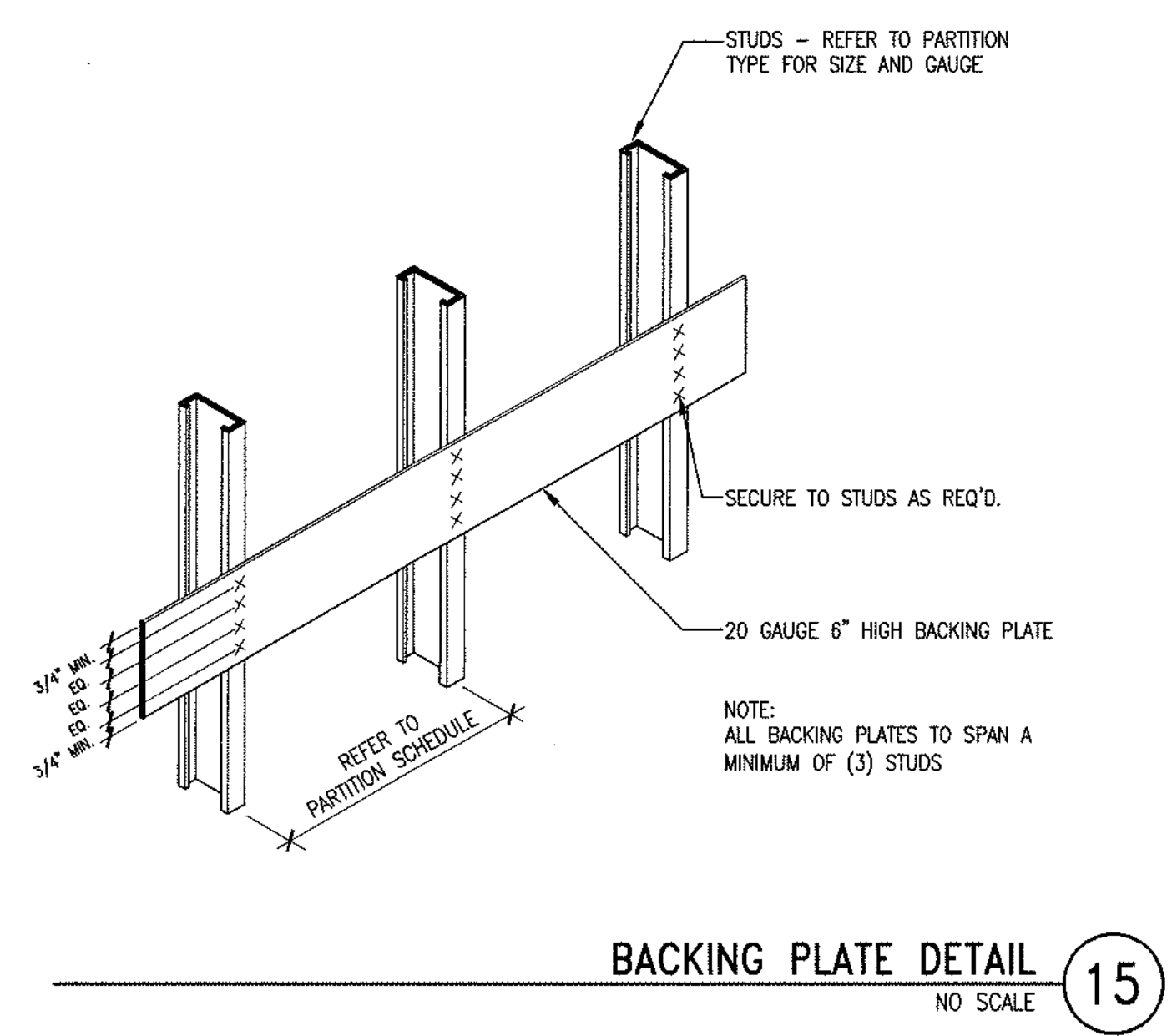
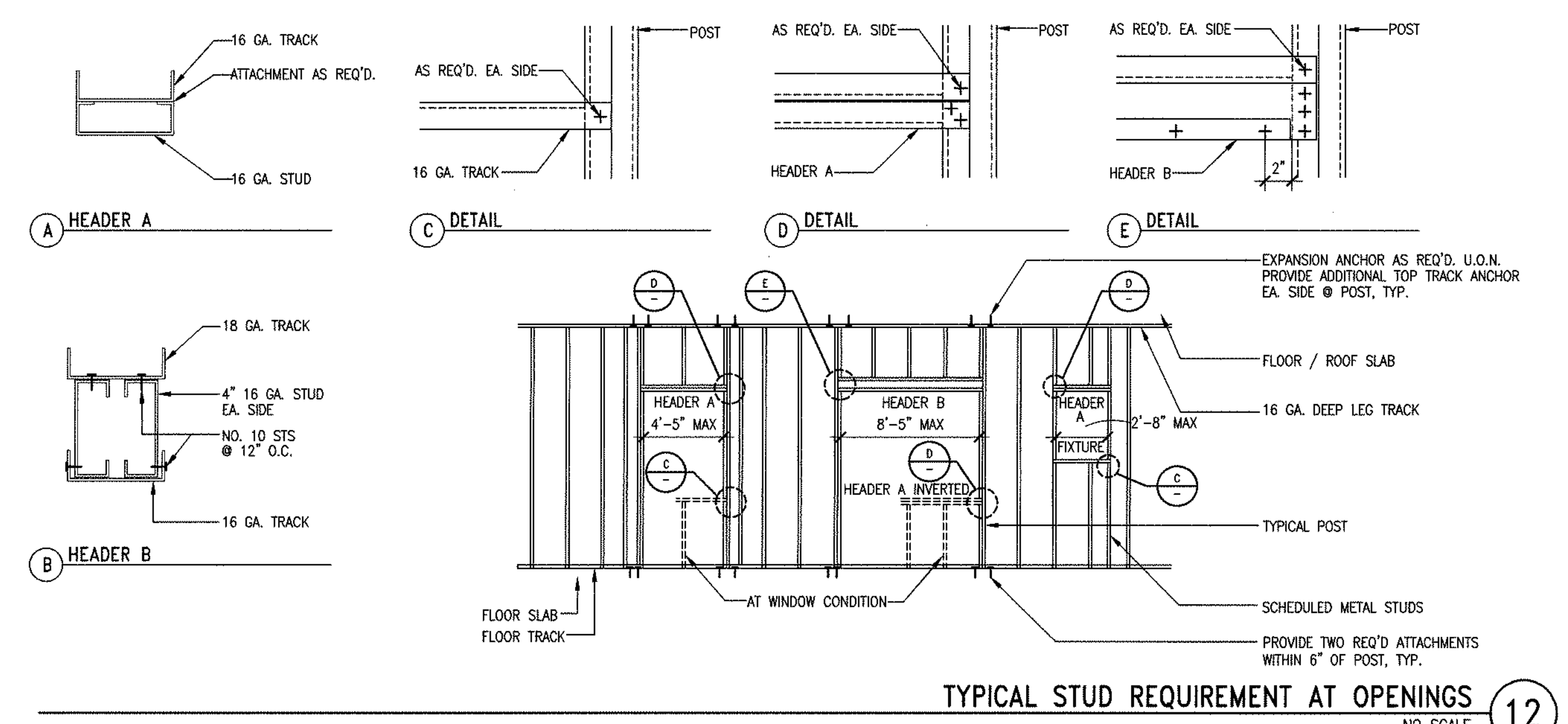
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2003.11.03 CCD 13 DELTA 15

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LICENSED ARCHITECT
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EXP. 3/31/05
STATE OF CALIFORNIA
ISSUE
BID SET
Sheet title

COMMUNITY
HALL
WALL SECTIONS
scale 1/2" = 1'-0"
date 2003.04.18
drawn by LR project number 20114.00
sheet number
A8.21



SPAN TABLE	
SPAN	CH-STUD SIZE
7'-1" MAX.	2-1/2" X 25 GA.
7'-11" MAX.	2 1/2" X 22 GA.
9'-11" MAX.	4" X 25 GA.
12'-0" MAX.	4" X 20 GA.

TYPE	DESCRIPTION	DETAIL	PARTITION SCHEDULE
M11	6" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB EACH SIDE	7 1/4"	PARTITION TYPE SYMBOLS XX - PARTITION TYPE - - - - - HOURLY FIRE RATING. PARTITION EXTENDS TO STRUCTURE ABOVE UNLESS OTHERWISE NOTED XX - PARTITION TYPE - - - - - HOURLY FIRE RATING (WHERE NOTED) UP TO CEILING HEIGHT ONLY XX - PARTITION TYPE - - - - - NON-RATED OR 'PERMANENT' PARTITION EXTENDS TO STRUCTURE ABOVE XX - PARTITION TYPE - - - - - STUDS EXTEND TO STRUCTURE ABOVE; GYP. BD. EXTENDS 6" ABOVE HIGHEST ADJACENT CEILING XX - PARTITION TYPE - - - - - STUDS AND GYP. BD., PLASTER, ETC. AND INSULATION ON ONE SIDE EXTEND TO STRUCTURE ABOVE XX - PARTITION TYPE - - - - - PARTITION TERMINATES BEFORE CEILING; SEE INTERIOR ELEVATIONS FOR HEIGHT. REINFORCING AS REQUIRED XX - PARTITION TYPE - - - - - STUDS AND GYP. BD., PLASTER, ETC. AND INSULATION ON ONE SIDE EXTEND TO STRUCTURE ABOVE XX - PARTITION TYPE - - - - - GYP. BD. ON OTHER SIDE TERMINATES 6" ABOVE CEILING
M11X	6" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB ONE SIDE 1 LAYER 5/8" GWB OTHER SIDE 6" ACOUSTICAL INSULATION	7 1/4"	
M12X	6" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB ONE SIDE 2 LAYERS 5/8" GWB OTHER SIDE 3" ACOUSTICAL INSULATION	7 7/8"	
N1	7/8" X 25 GA. FURRING CHANNEL AT 16" O.C. 1 LAYER 5/8" GWB	1 1/2" 1/4" SHIM SPACE WHERE OCCURS	
N4	1 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB	2 1/4" 1/4" SHIM SPACE WHERE OCCURS	
O4	2 1/2" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB	3 1/8" 1/4" SHIM SPACE WHERE OCCURS	
P4	3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB	4 1/4" 1/4" SHIM SPACE WHERE OCCURS	B45 4" X 20 GA. MTL. C-H STUD AT 24" O.C. 1" GYP. CORE BD. ONE SIDE 1 LAYERS 5/8" GWB OTHER SIDE
P4X	3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB R-11 BATT INSULATION	4 1/4" 1/4" SHIM SPACE WHERE OCCURS	B45X 4" X 20 GA. MTL. C-H STUD AT 24" O.C. 1" GYP. CORE BD. ONE SIDE 1 LAYER 5/8" GWB OTHER SIDE 3" ACOUSTICAL INSULATION
P5	3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 1/2" GWB 2-5/8" FINISH ASSEMBLY - SEE DETAILS	2 5/8" 4 1/8" 1/4" SHIM SPACE WHERE OCCURS	C21 6" X 20 GA. MTL. C-H STUD AT 24" O.C. 1" GYP. CORE BD. ONE SIDE 1 LAYER 5/8" GWB OTHER SIDE
P6	3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 1/2" GWB 1-3/8" FINISH ASSEMBLY - SEE DETAILS	1 3/8" 4 1/8" 1/4" SHIM SPACE WHERE OCCURS	C21X 6" X 20 GA. MTL. C-H STUD AT 24" O.C. 1" GYP. CORE BD. ONE SIDE 1 LAYER 5/8" GWB OTHER SIDE 6" ACOUSTICAL INSULATION
Q16	6" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB	6 5/8" 1/4" SHIM SPACE WHERE OCCURS	L2 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB EACH SIDE
Z1	TWO ROWS 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 2 LAYERS 5/8" GWB EACH SIDE BRACE EACH ROW OF STUDS WITH CHANNEL STIFFENERS MAINTAIN 1" MIN. SPACE BETWEEN STUD ROWS	SEE PLAN 1" MIN.	L2X 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB EACH SIDE 3" ACOUSTICAL INSULATION
Z1X	TWO ROWS 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 2 LAYERS 5/8" GWB EACH SIDE 3" ACOUSTICAL INSULATION EACH SIDE BRACE EACH ROW OF STUDS WITH CHANNEL STIFFENERS MAINTAIN 1" MIN. SPACE BETWEEN STUD ROWS	SEE PLAN 1" MIN.	L12 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB ONE SIDE 2 LAYERS 5/8" GWB OTHER SIDE
Z2X	TWO ROWS 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB EACH SIDE 3" ACOUSTICAL INSULATION EACH SIDE BRACE EACH ROW OF STUDS WITH CHANNEL STIFFENERS MAINTAIN 1" MIN. SPACE BETWEEN STUD ROWS	SEE PLAN 1" MIN.	L12X 3 5/8" X 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB ONE SIDE 2 LAYERS 5/8" GWB OTHER SIDE 3" ACOUSTICAL INSULATION

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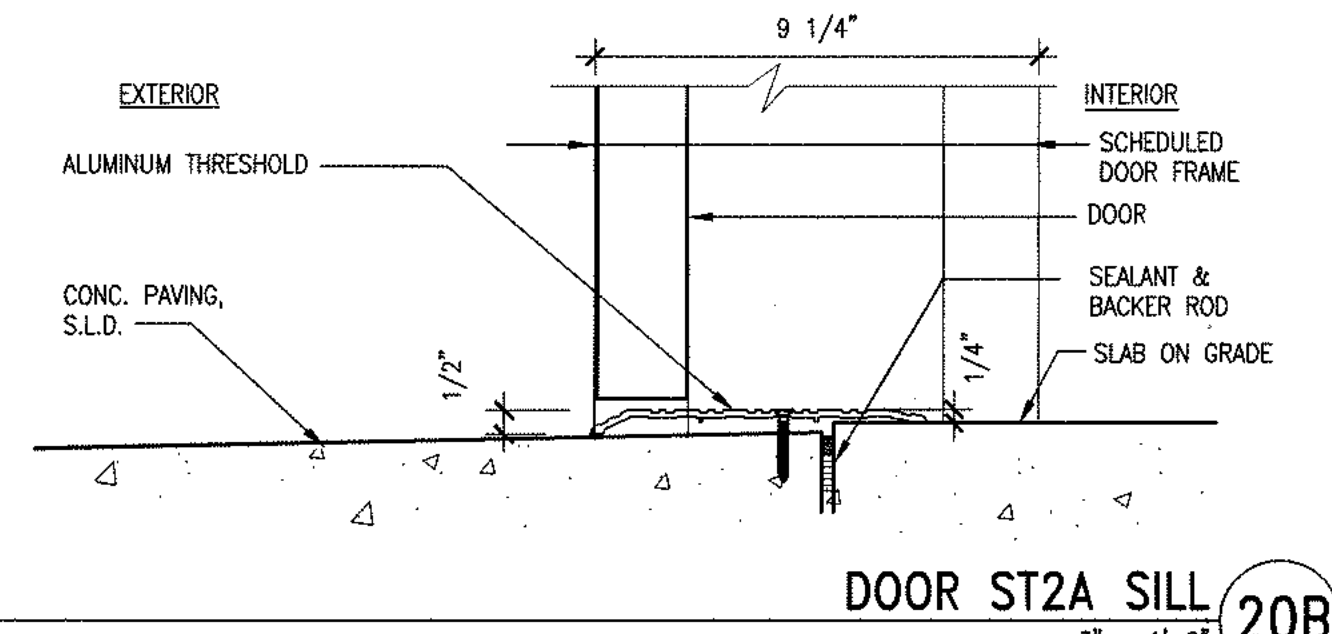
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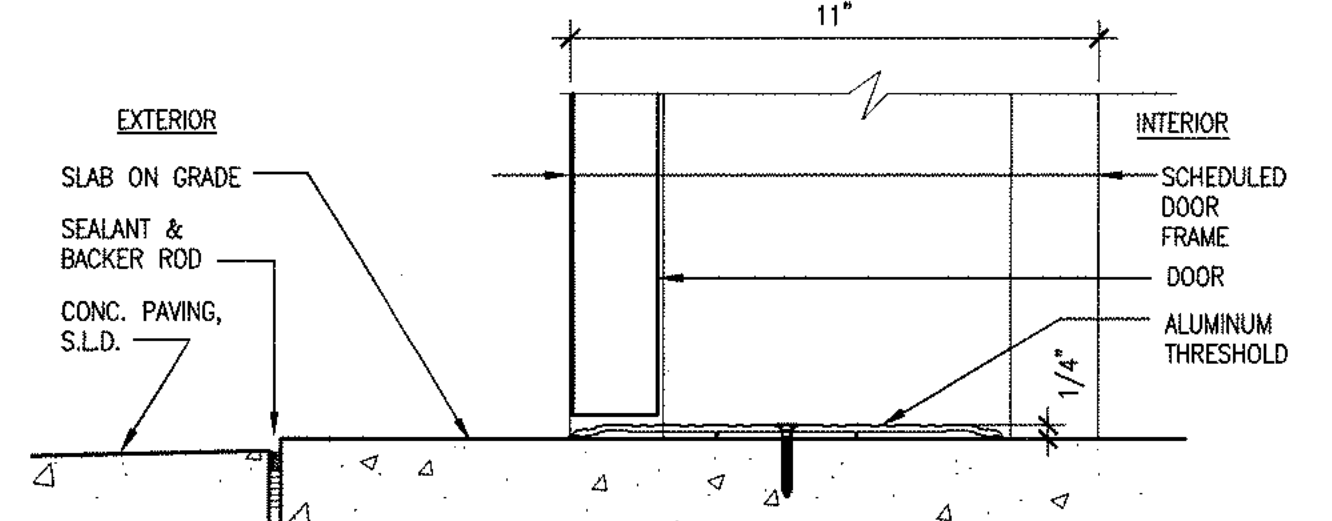
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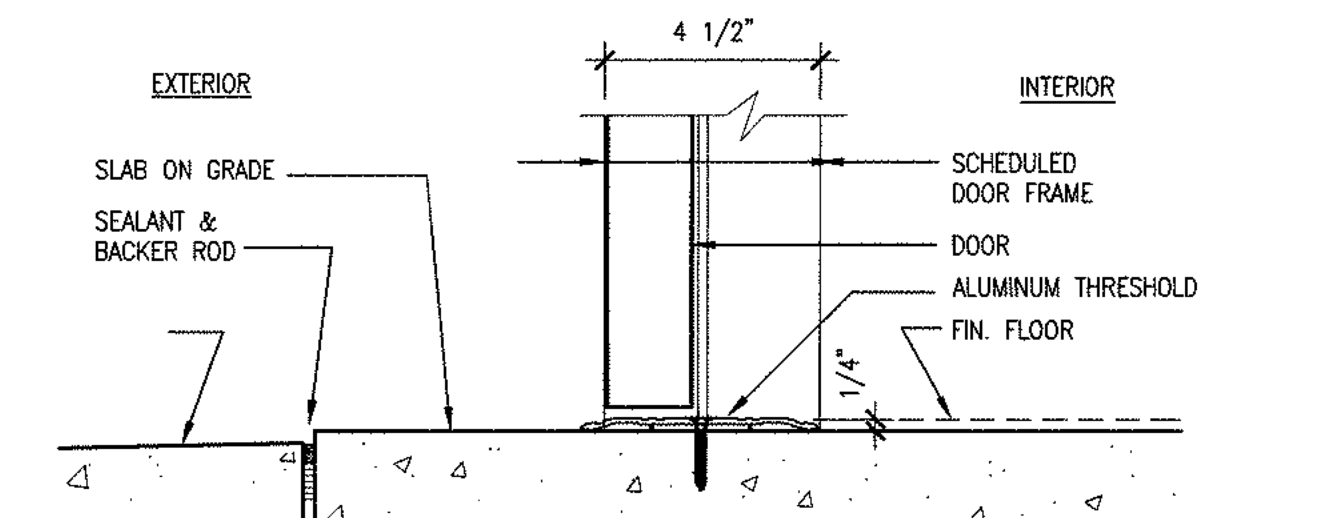
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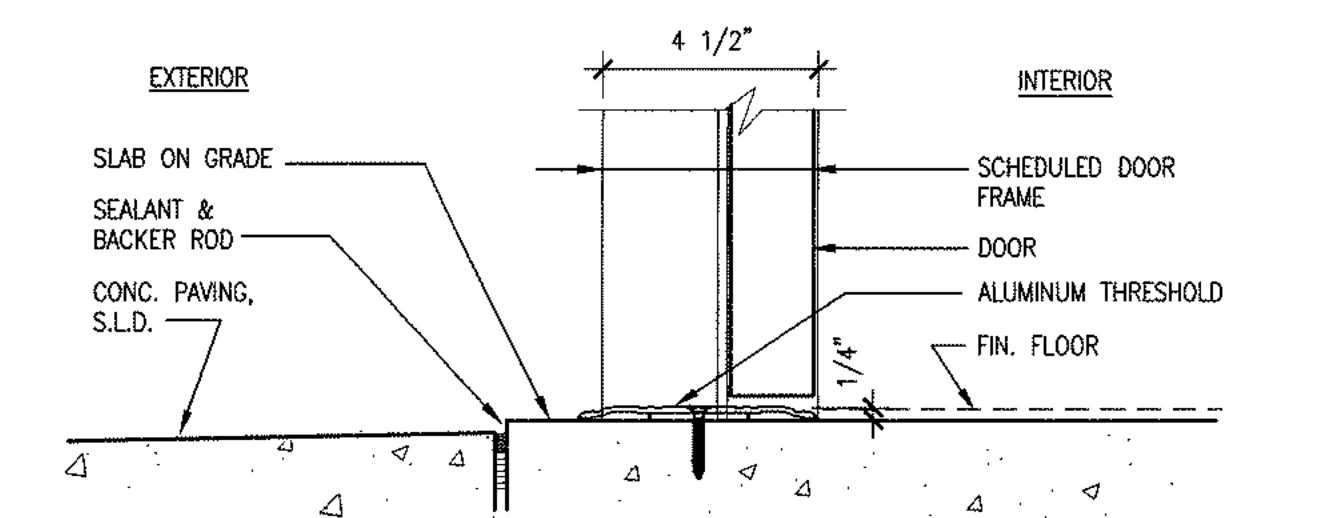
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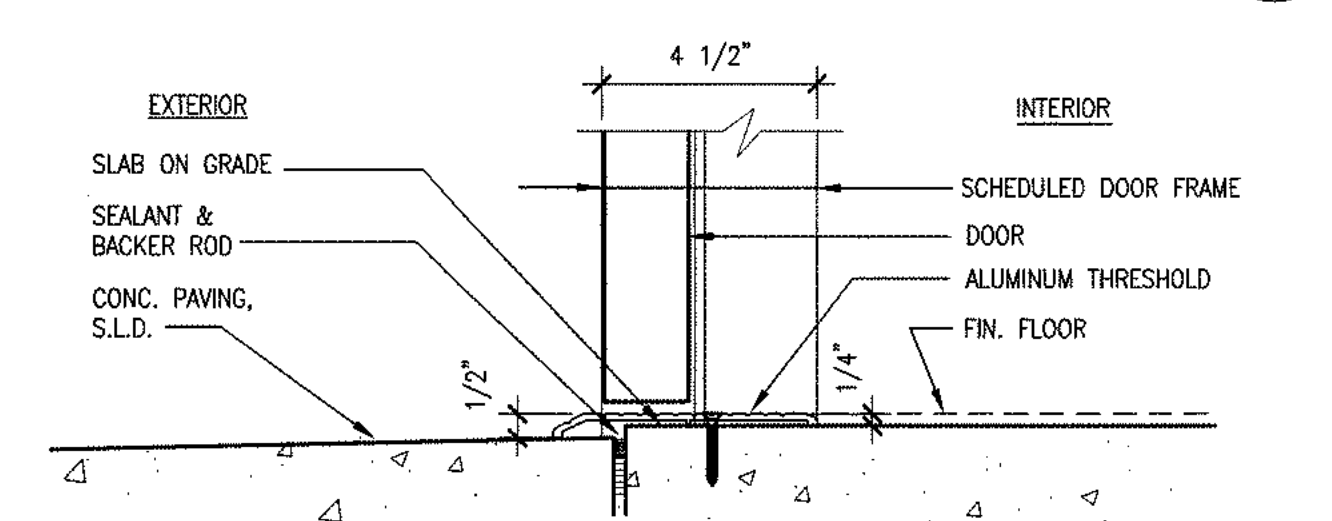
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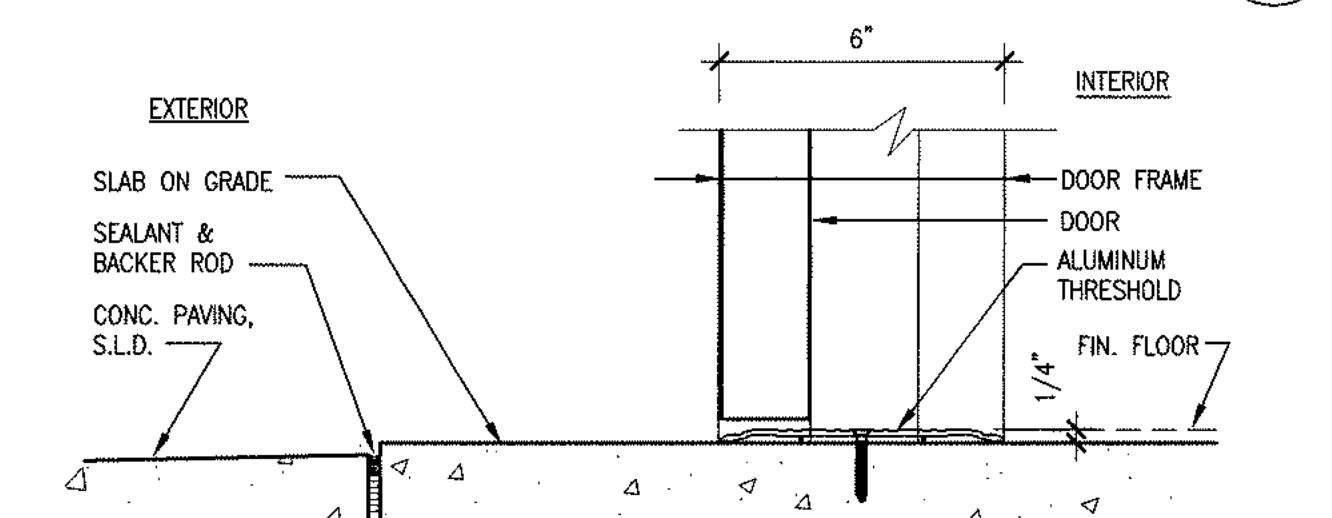
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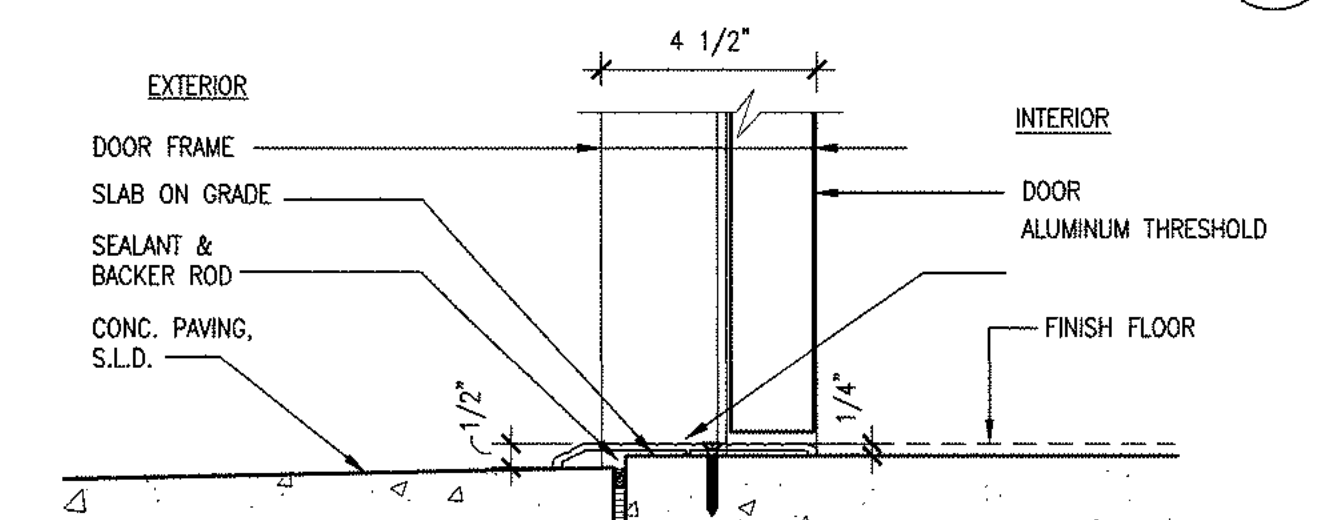
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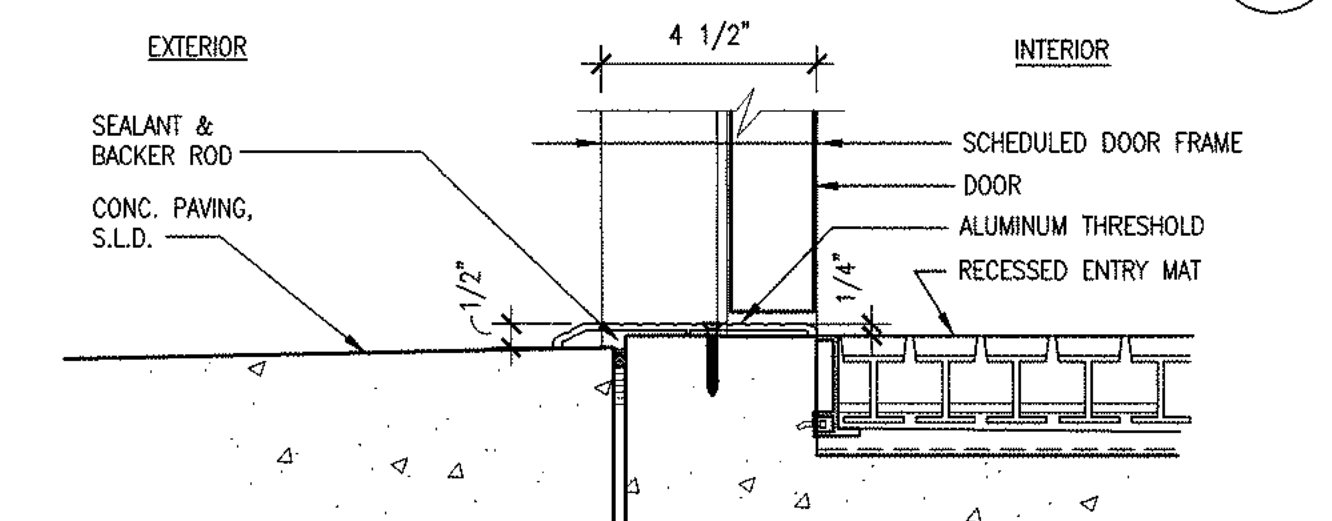
DOOR 123B SILL 18B
3" = 1'-0"



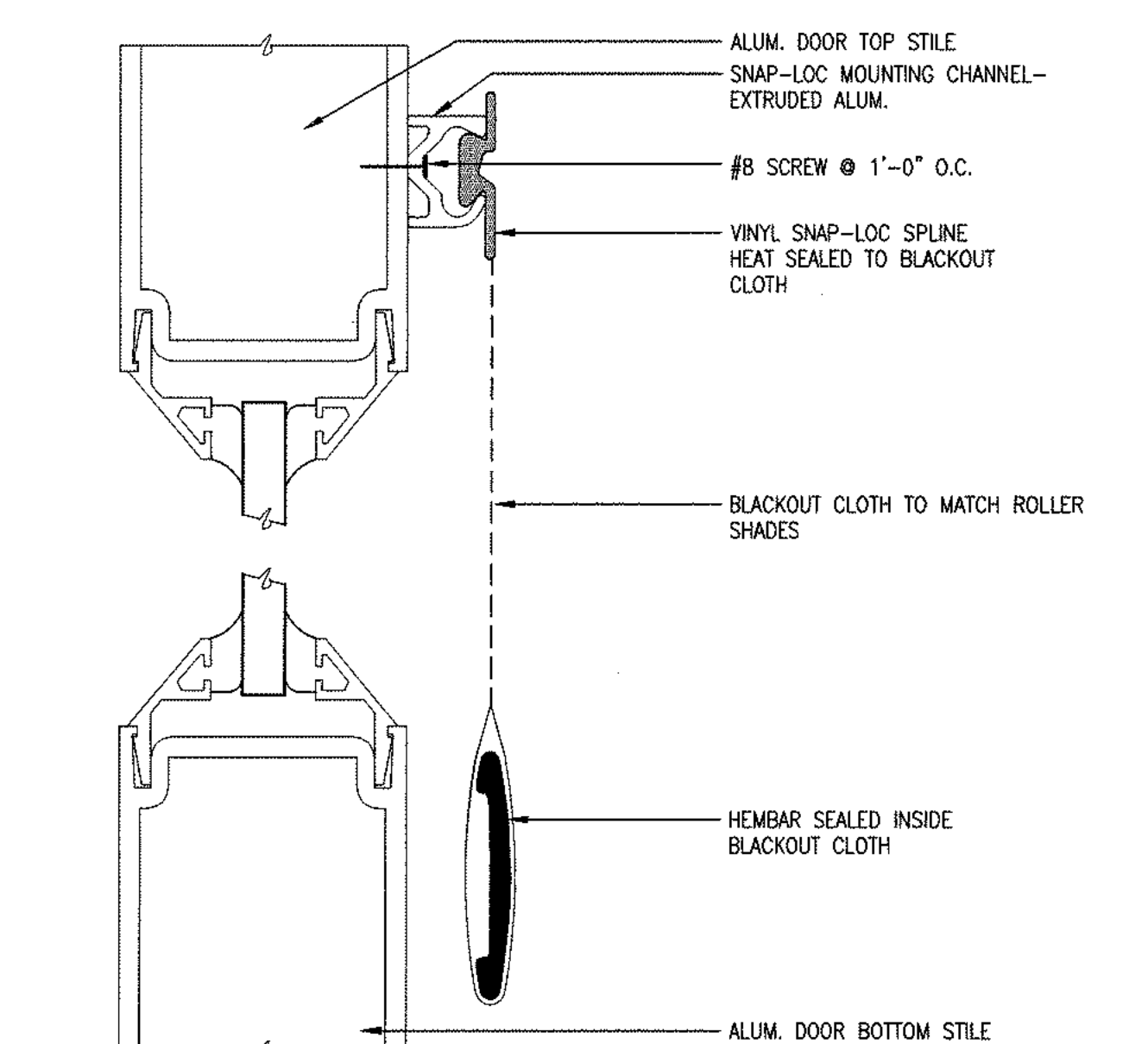
DOOR 116A SILL 18A
3" = 1'-0"



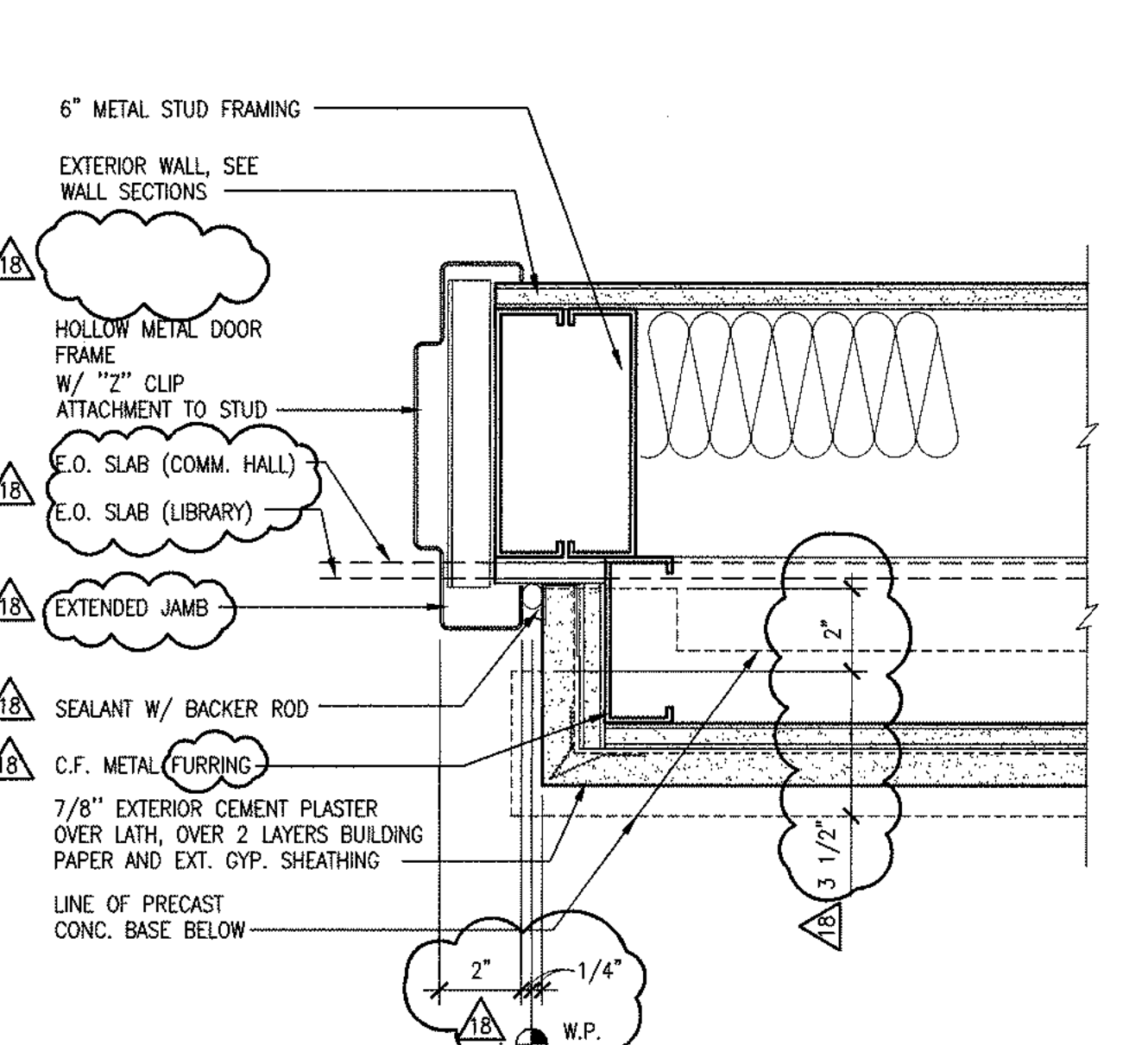
DOORS 113A & 113B SILL 17B
3" = 1'-0"



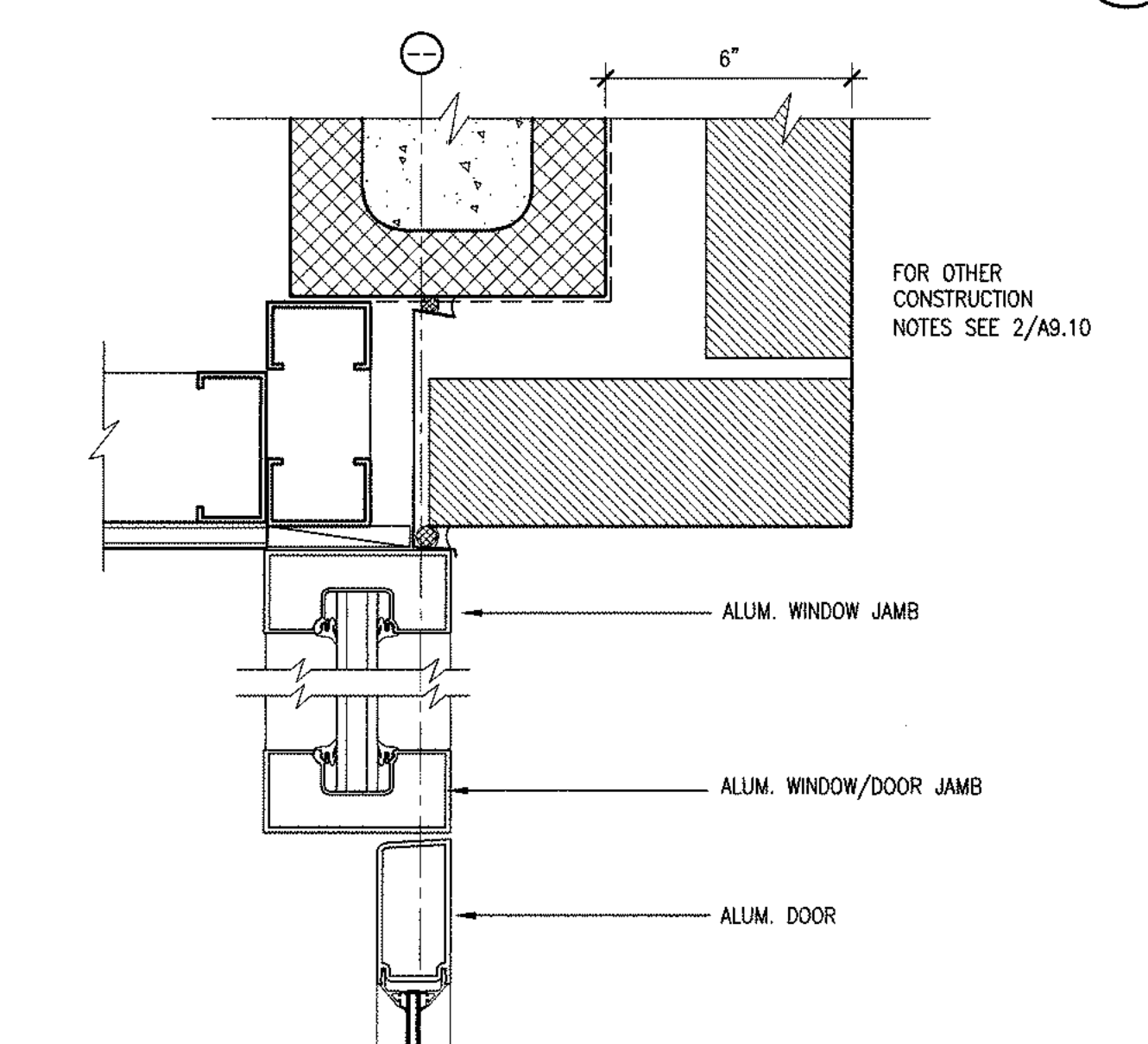
DOORS 101B SILL 17A
3" = 1'-0"



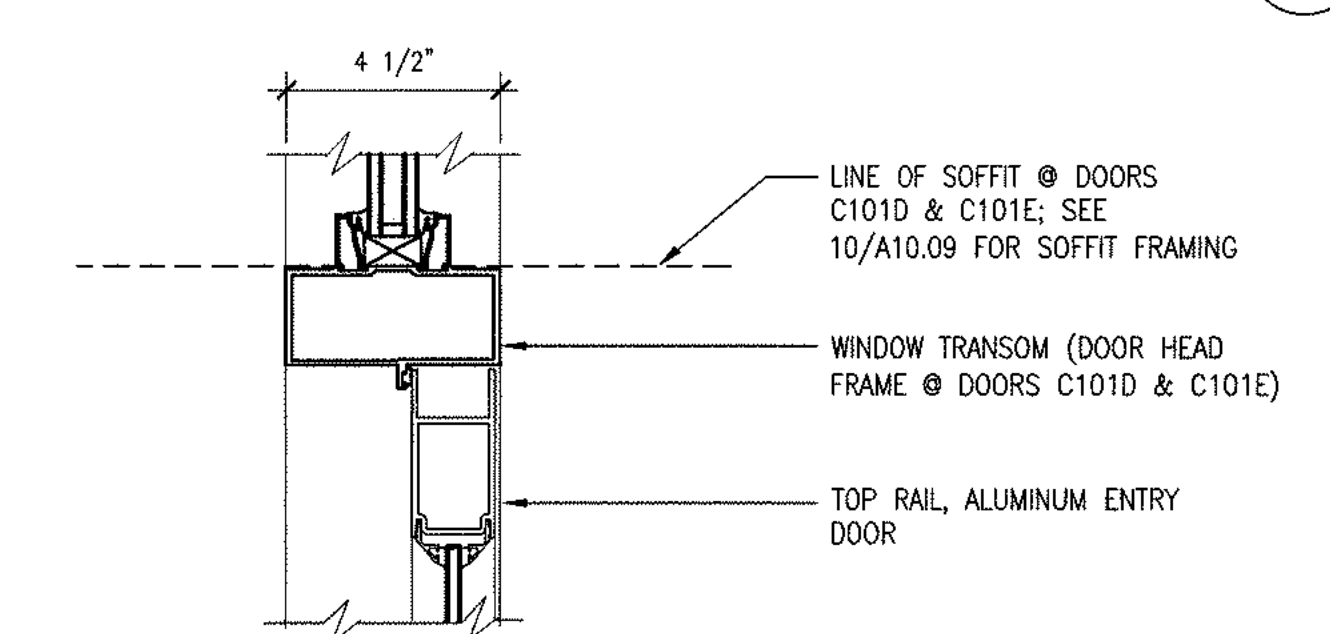
REMOVABLE BLACKOUT SHADE @ DOOR-SIDELITE SIM. 16
FULL SCALE



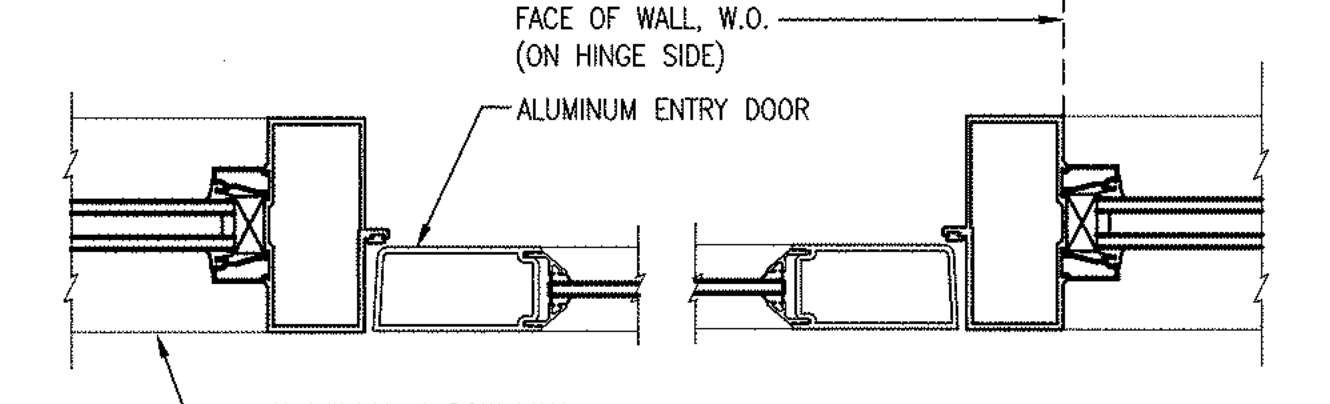
C111A JAMB @ CEM. PLASTER/HEAD SIM. 15
3" = 1'-0"



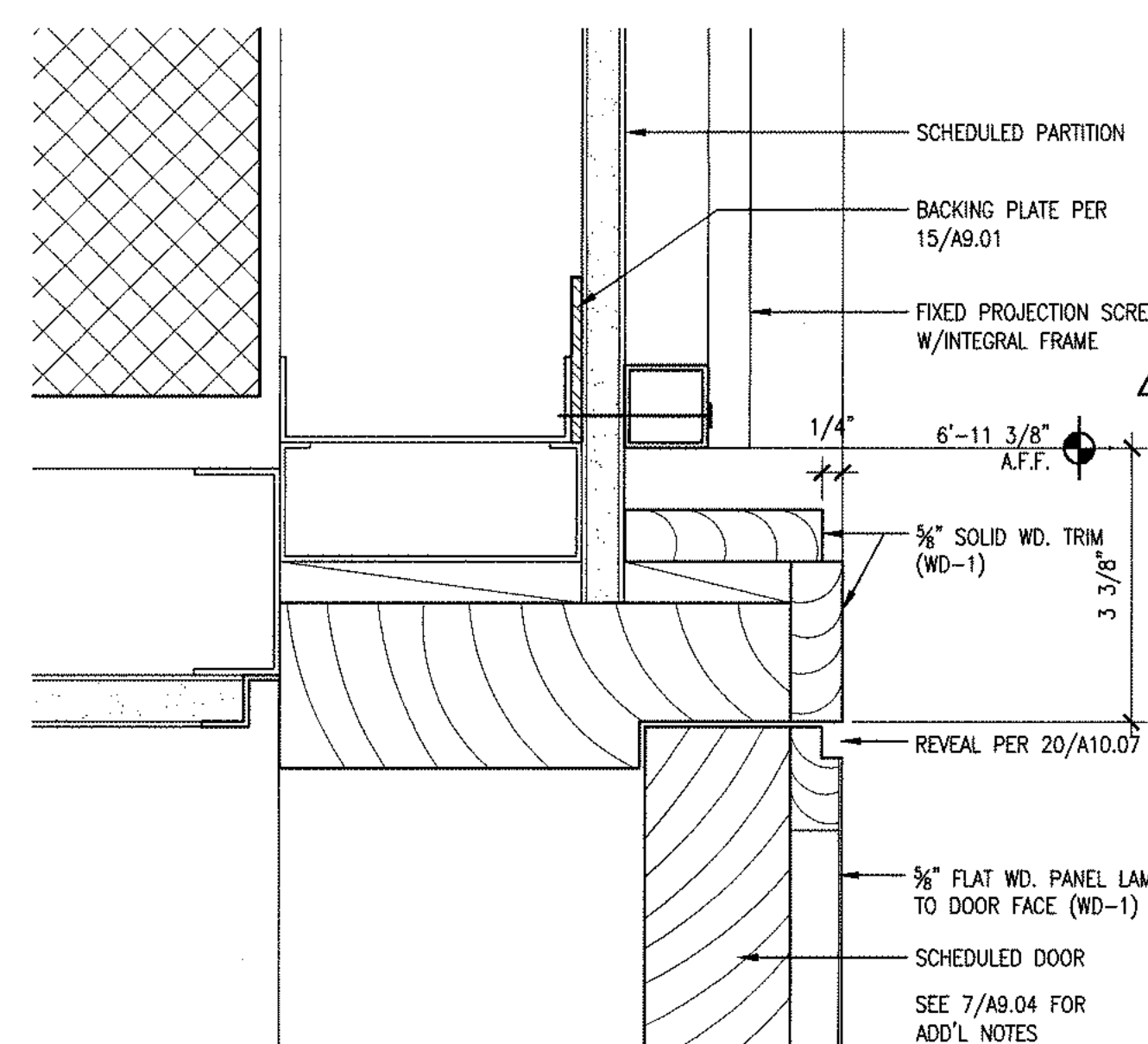
DOORS C101A & C101C JAMB AT MASONRY OPENING 14
3" = 1'-0"



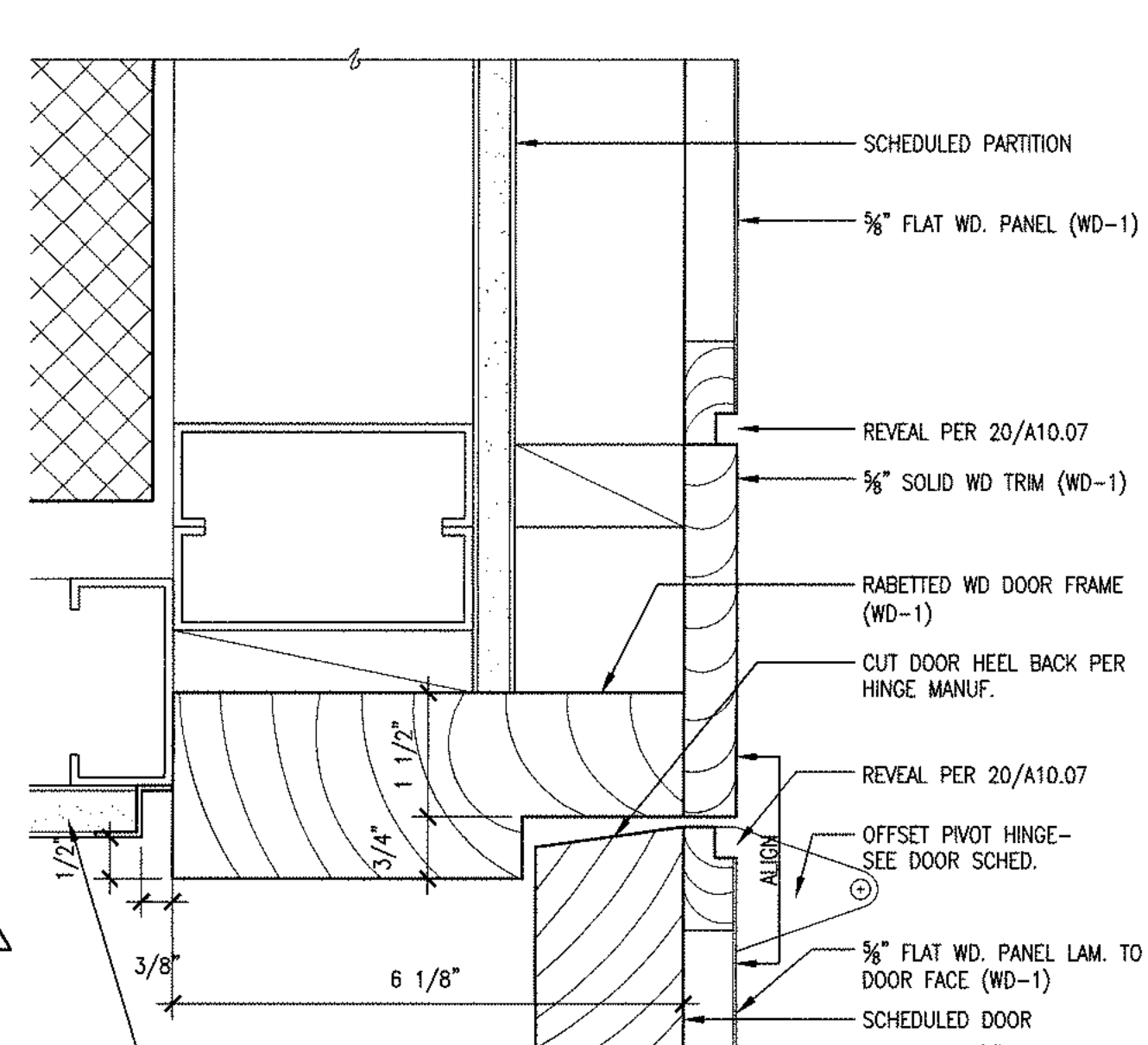
HEAD @ ENTRY DOORS 13B
3" = 1'-0"



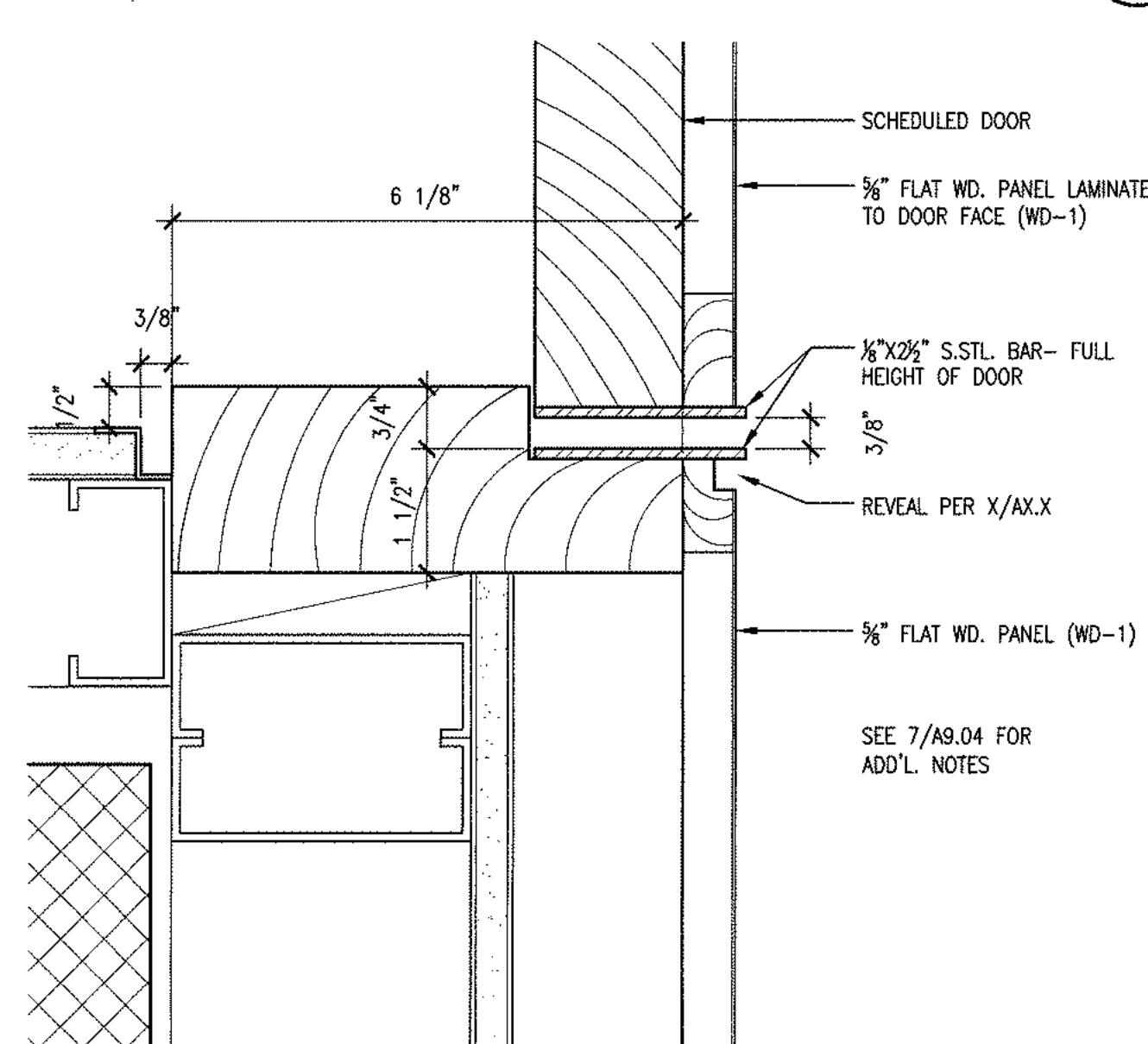
JAMB @ ENTRY DOORS 13A
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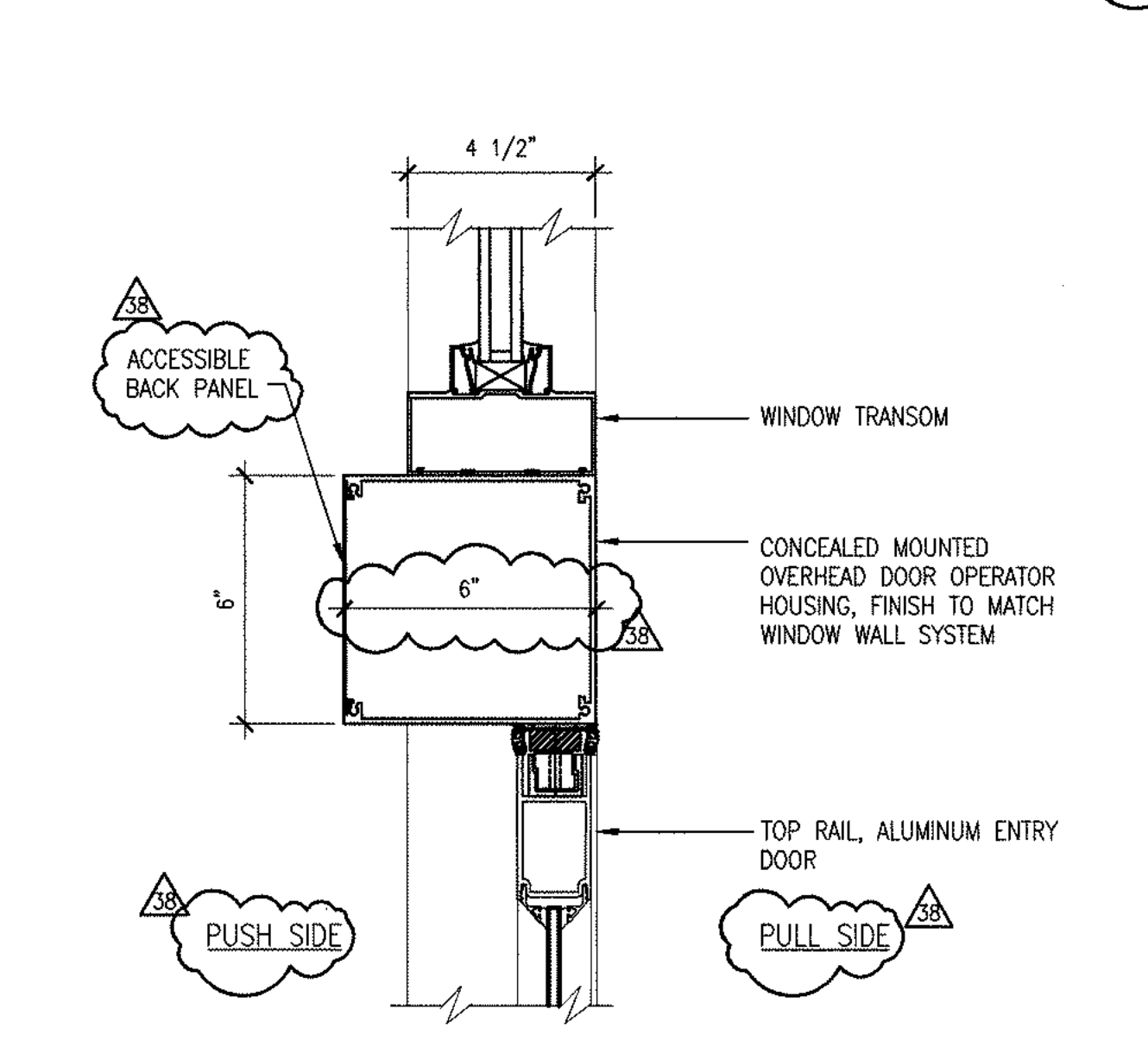
HEAD @ C113A & C117A & PROJECTION SCREEN 12
6" = 1'-0"



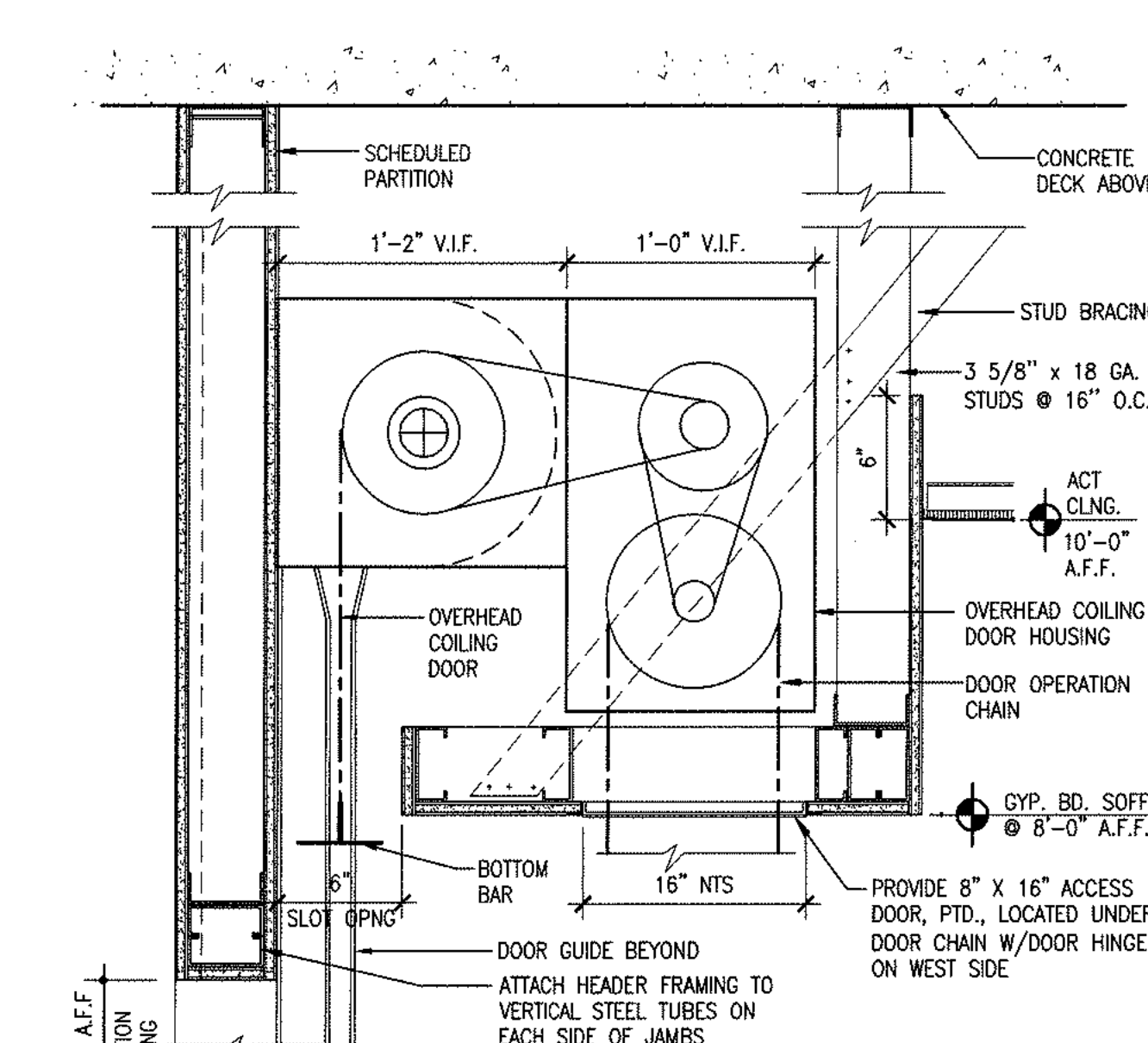
JAMB @ C113A & C117A-HINGE SIDE 11
6" = 1'-0"



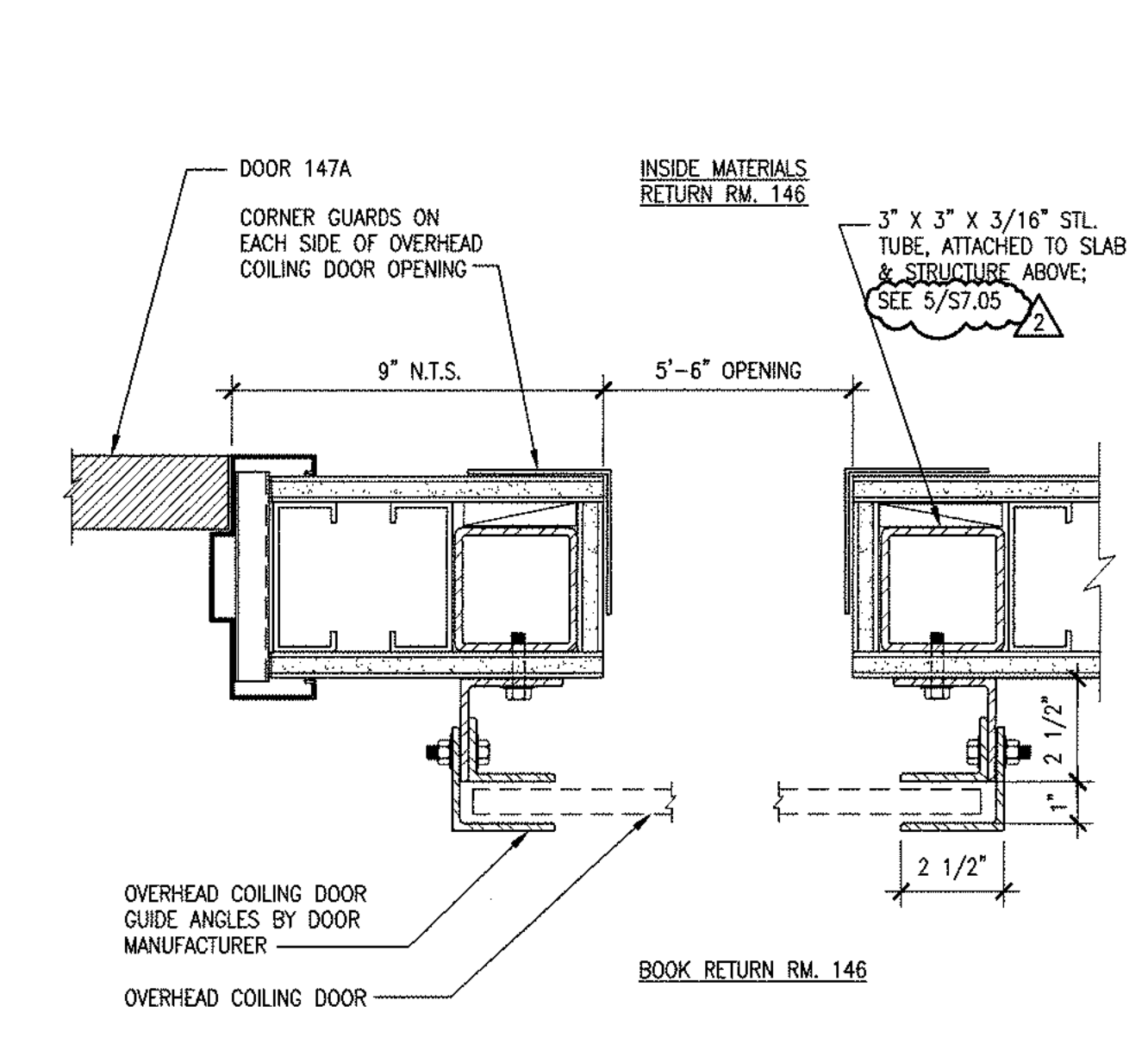
JAMB @ C113A & C117A-STRIKE SIDE 10
6" = 1'-0"



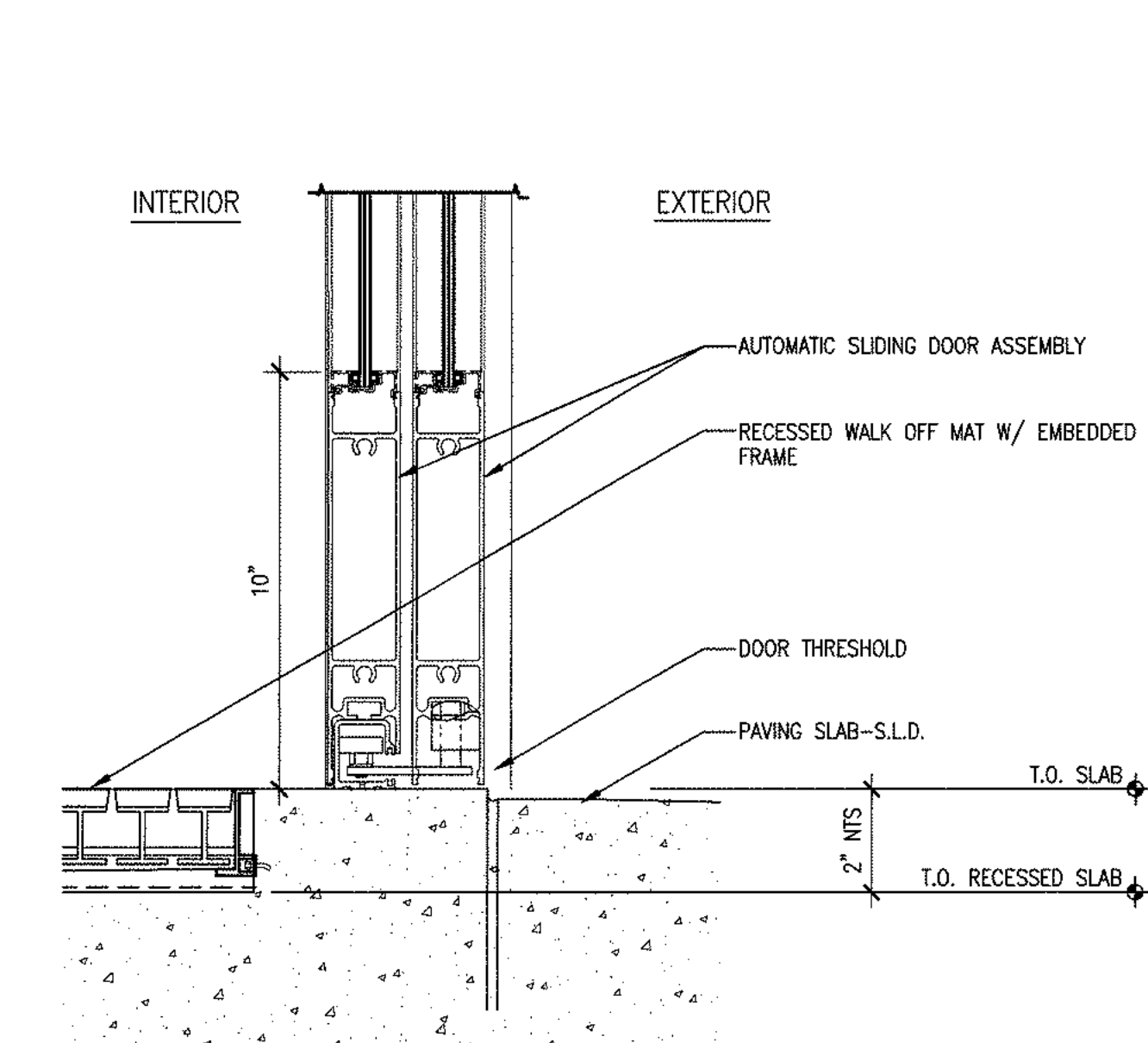
CONCEALED DOOR OPERATOR @ ENTRY DOORS 9
3" = 1'-0"



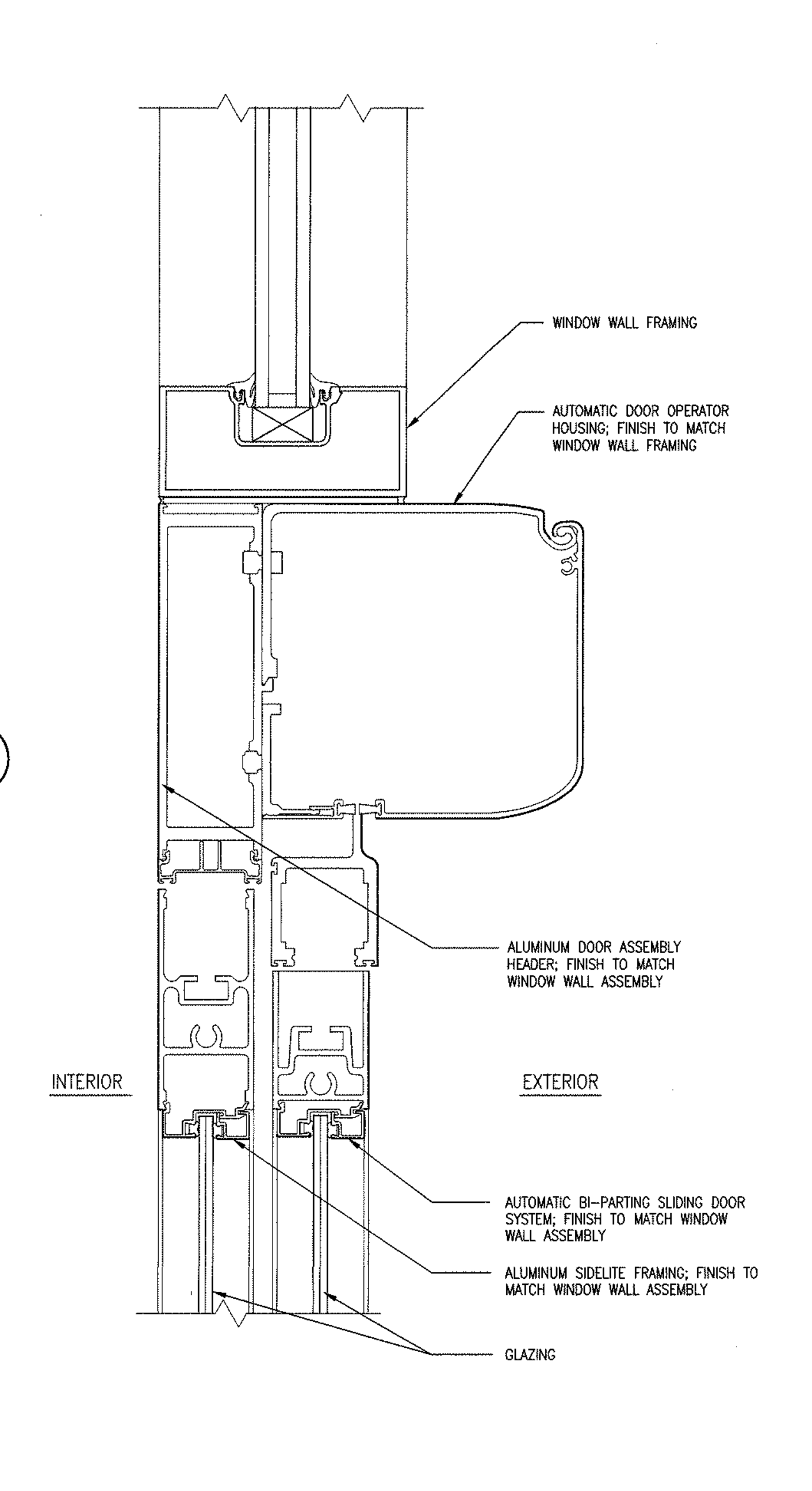
OVERHEAD COILING DOOR HEAD DETAIL 8
1 1/2" = 1'-0"



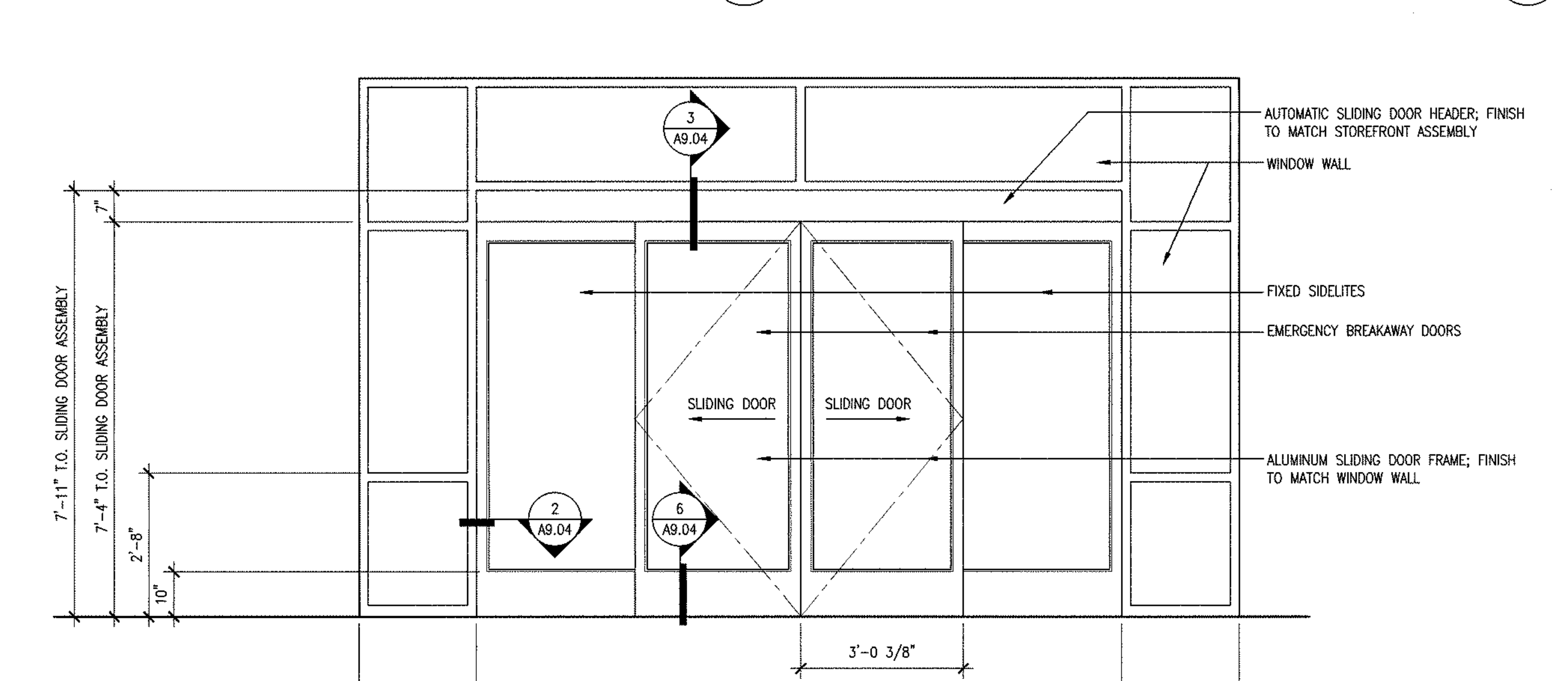
OVERHEAD COILING DOOR JAMBS 7
3" = 1'-0"



AUTOMATIC SLIDING DOOR THRESHOLD DETAIL 6
3" = 1'-0"



AUTOMATIC SLIDING DOOR JAMB DETAIL 2
6" = 1'-0"



AUTOMATIC SLIDING ENTRY DOOR ELEVATION 1
1/2" = 1'-0"

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Revisions

2003.05.30	ADDENDUM NO. 2
2003.XX.XX	CCD NO. XX
2003.02.09	CCD NO. 36

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stamp

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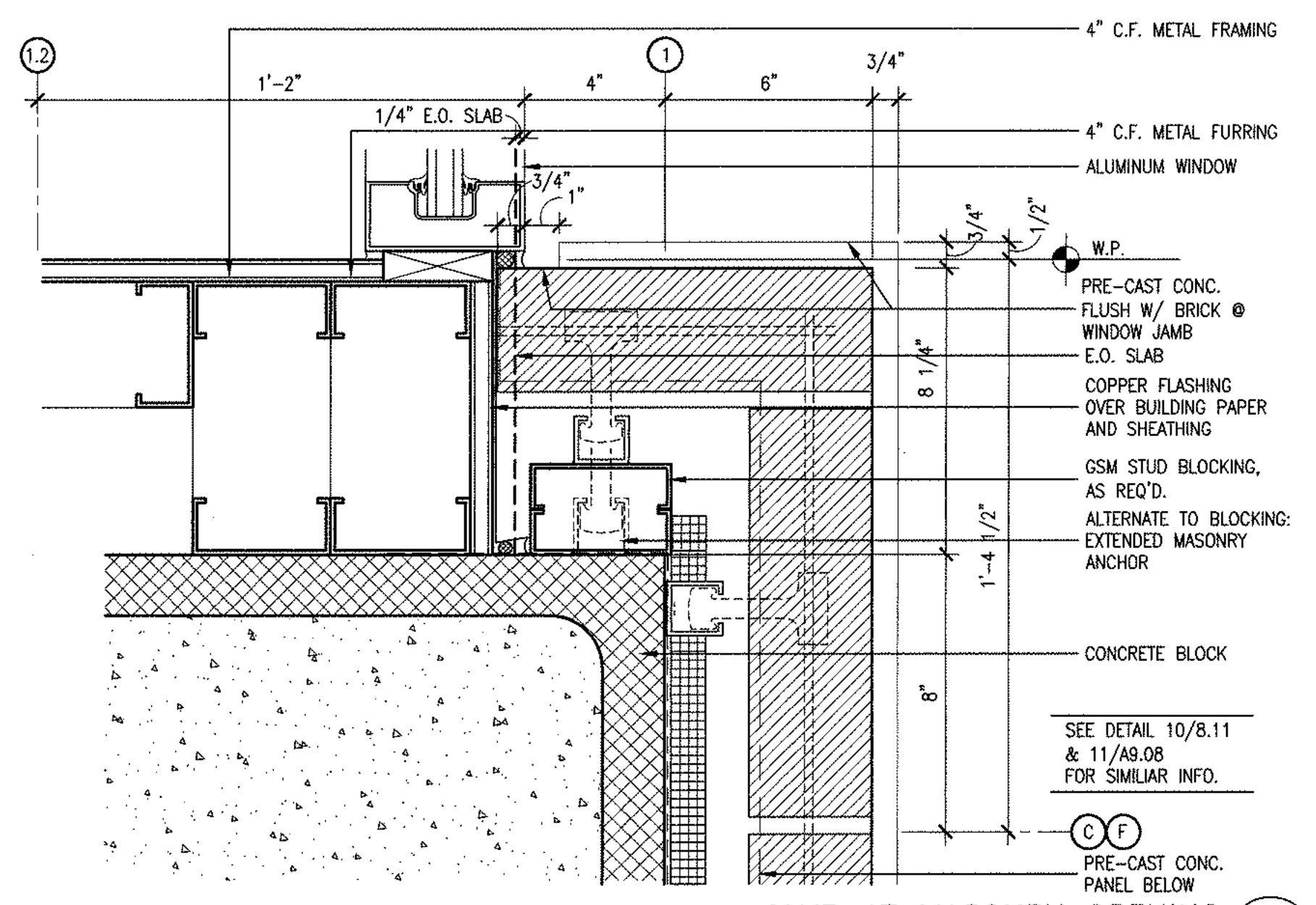
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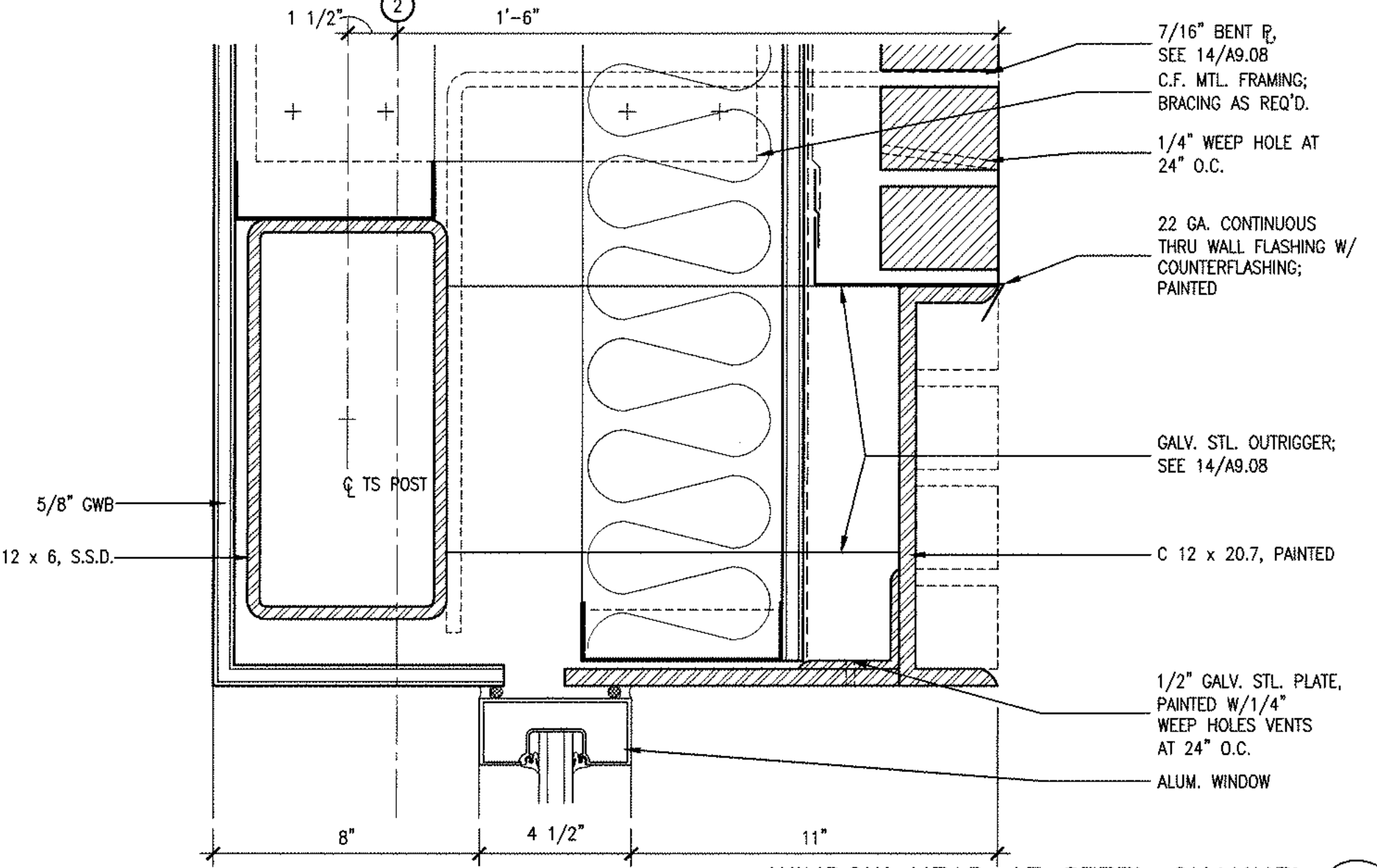
DOOR
DETAILS

scale AS NOTED date 2003.04.18
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sheet number

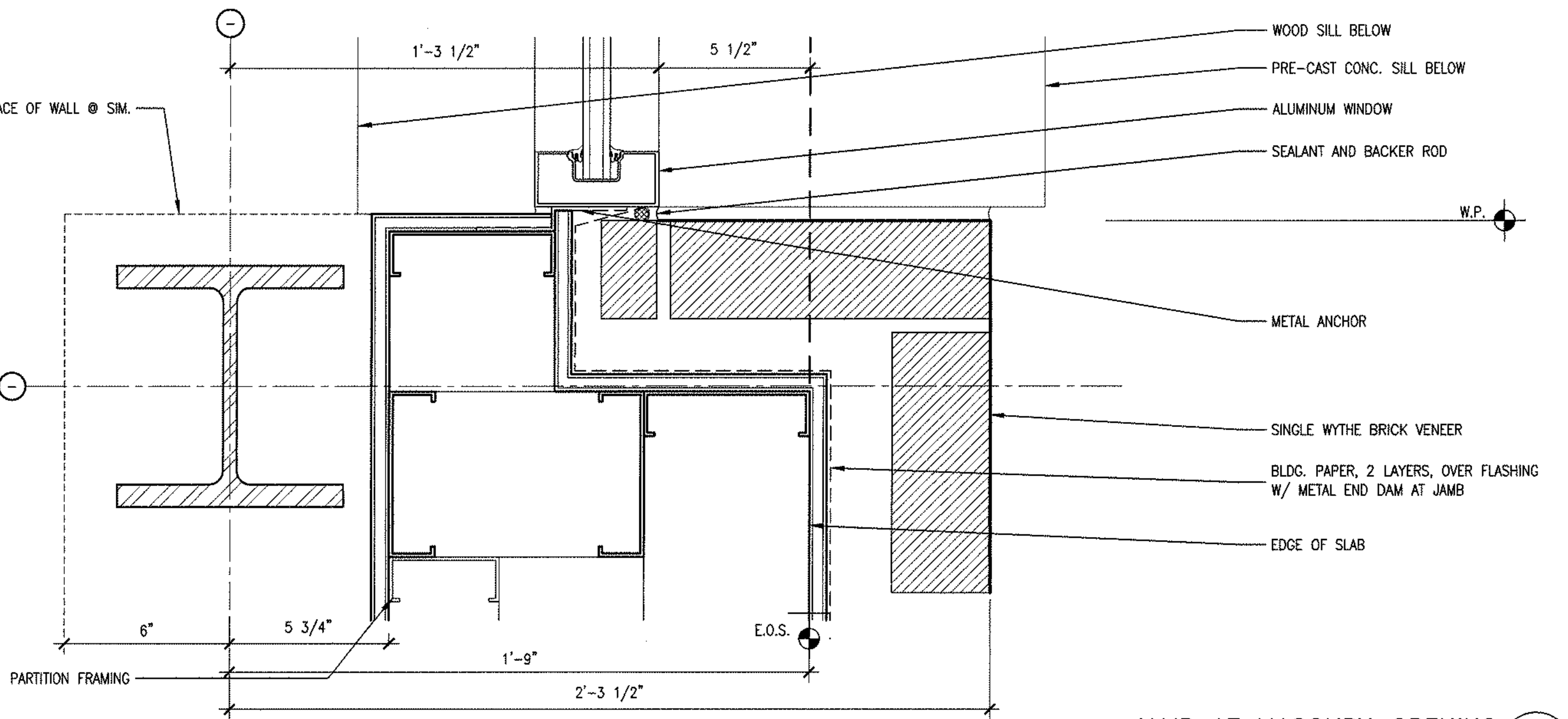
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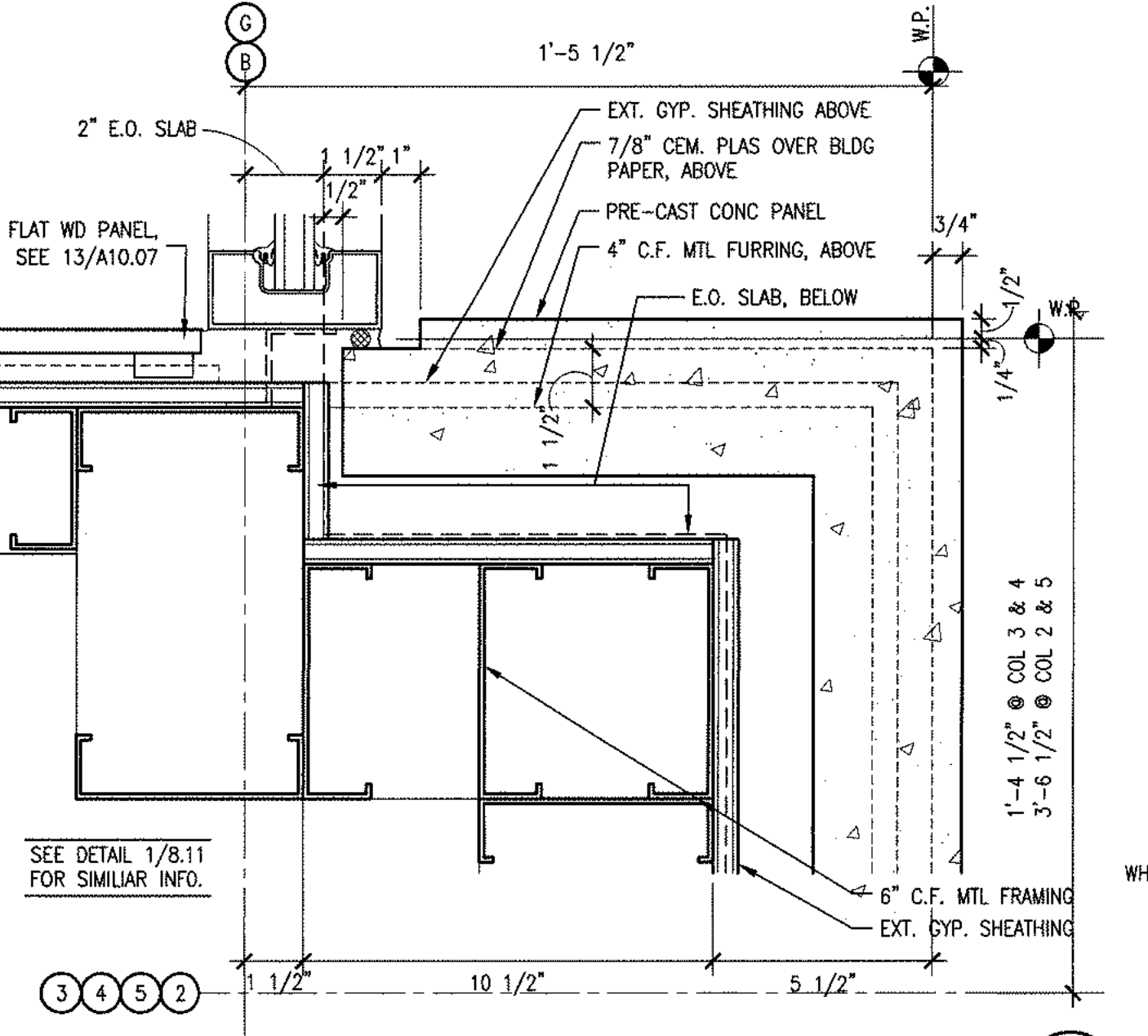
20 JAMB AT MASONRY OPENING
3" = 1'-0"



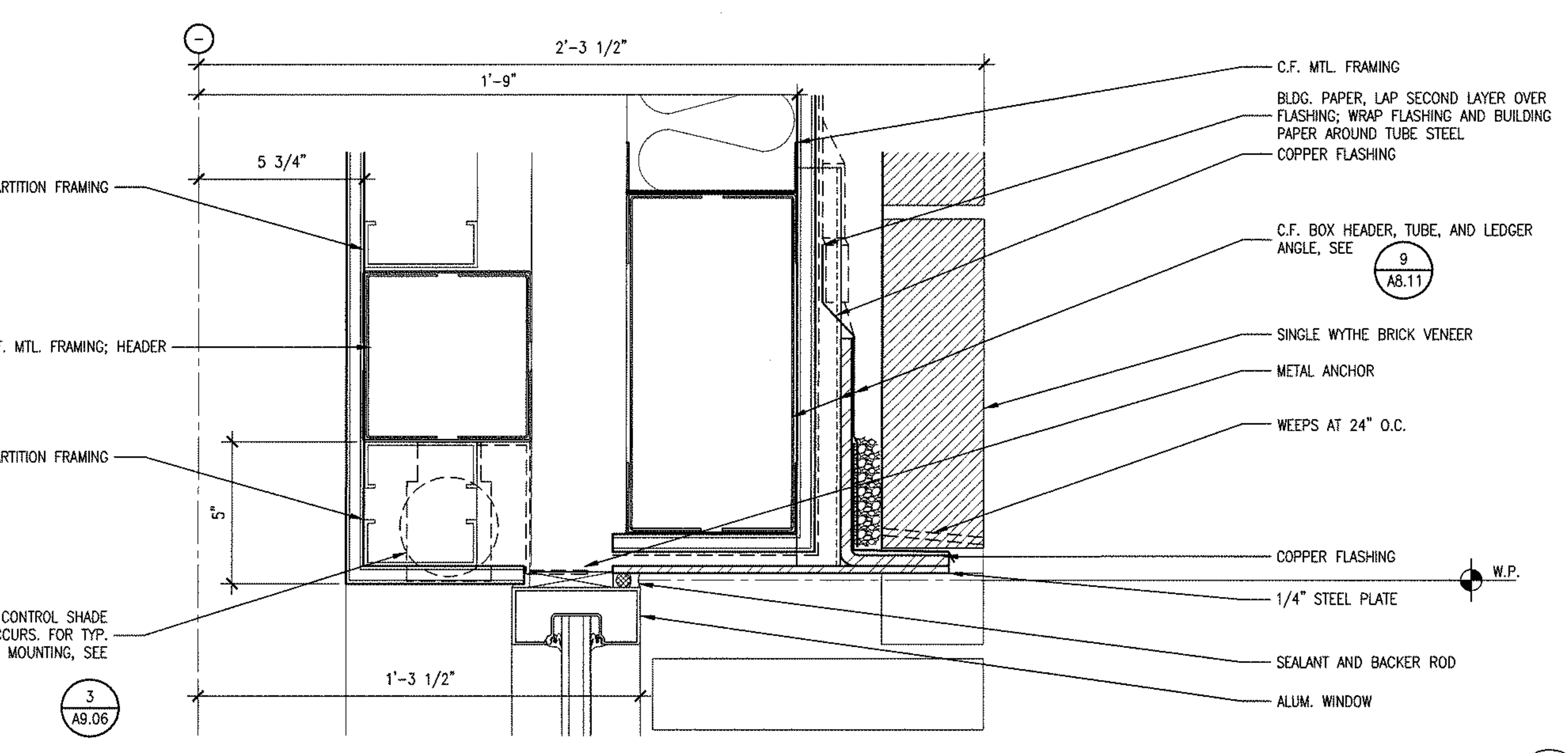
12 WINDOW HEAD AT STEEL CHANNEL
3" = 1'-0"



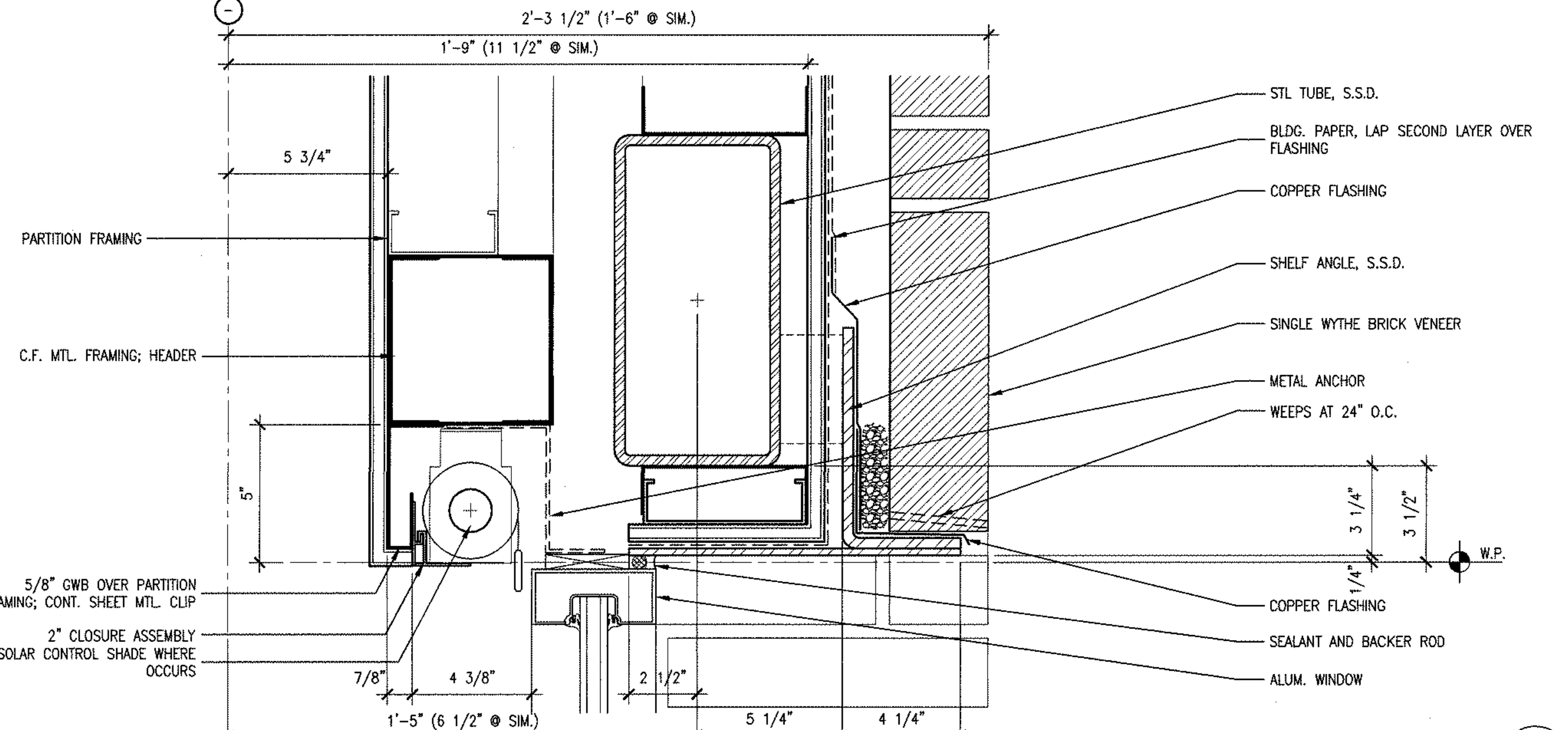
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3" = 1'-0"



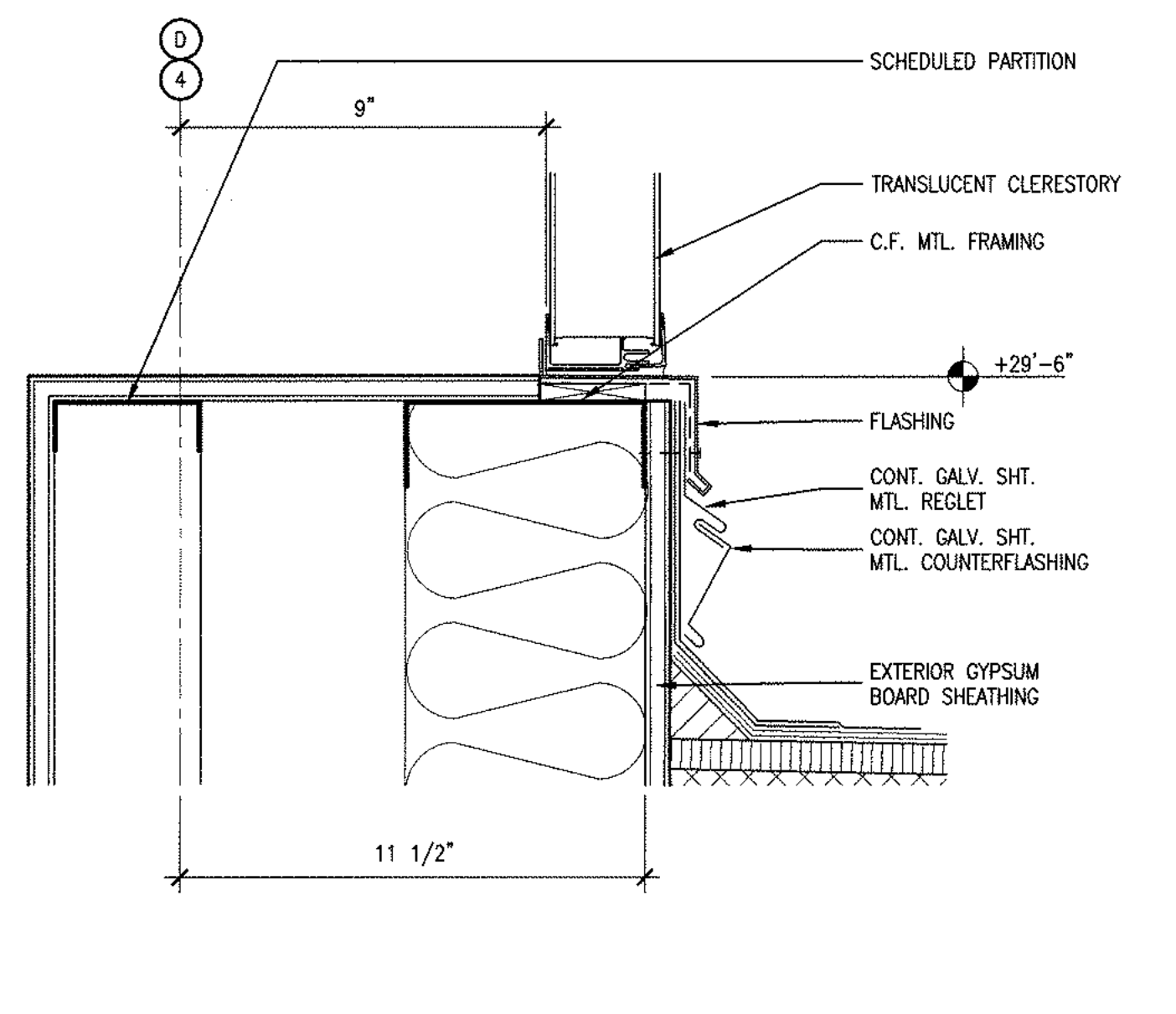
19 JAMB AT PRE-CAST PANEL
3" = 1'-0"



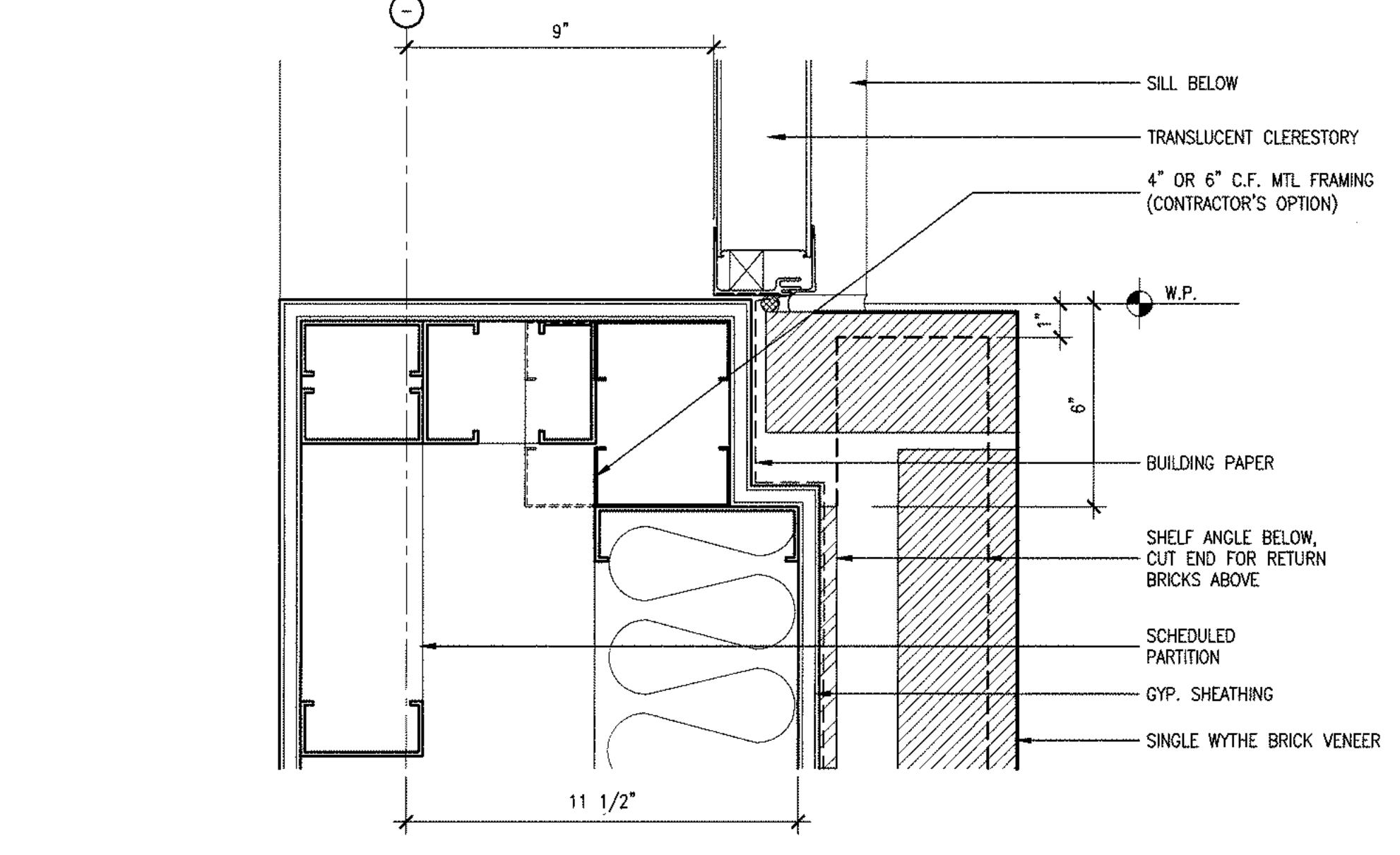
11 HEAD AT MASONRY OPENING
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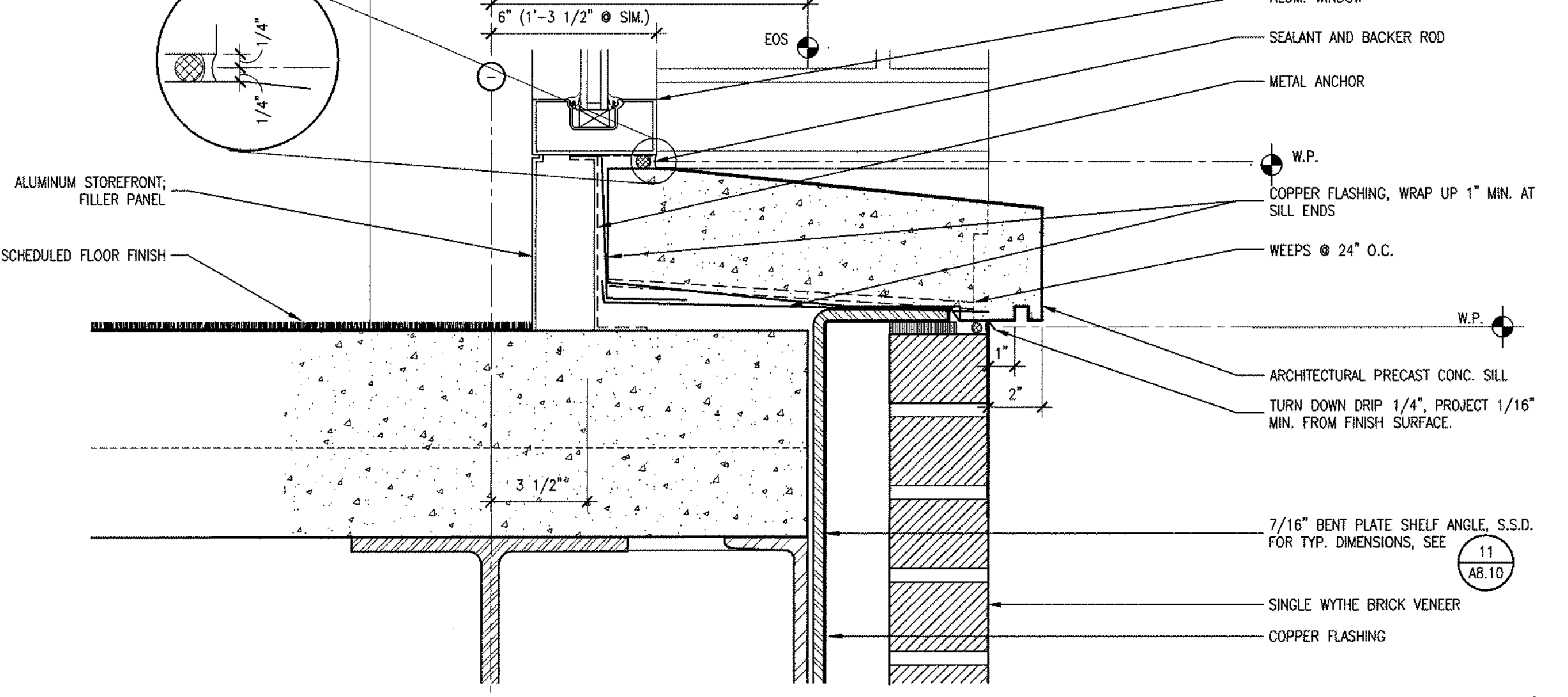
3 HEAD AT MASONRY OPENING
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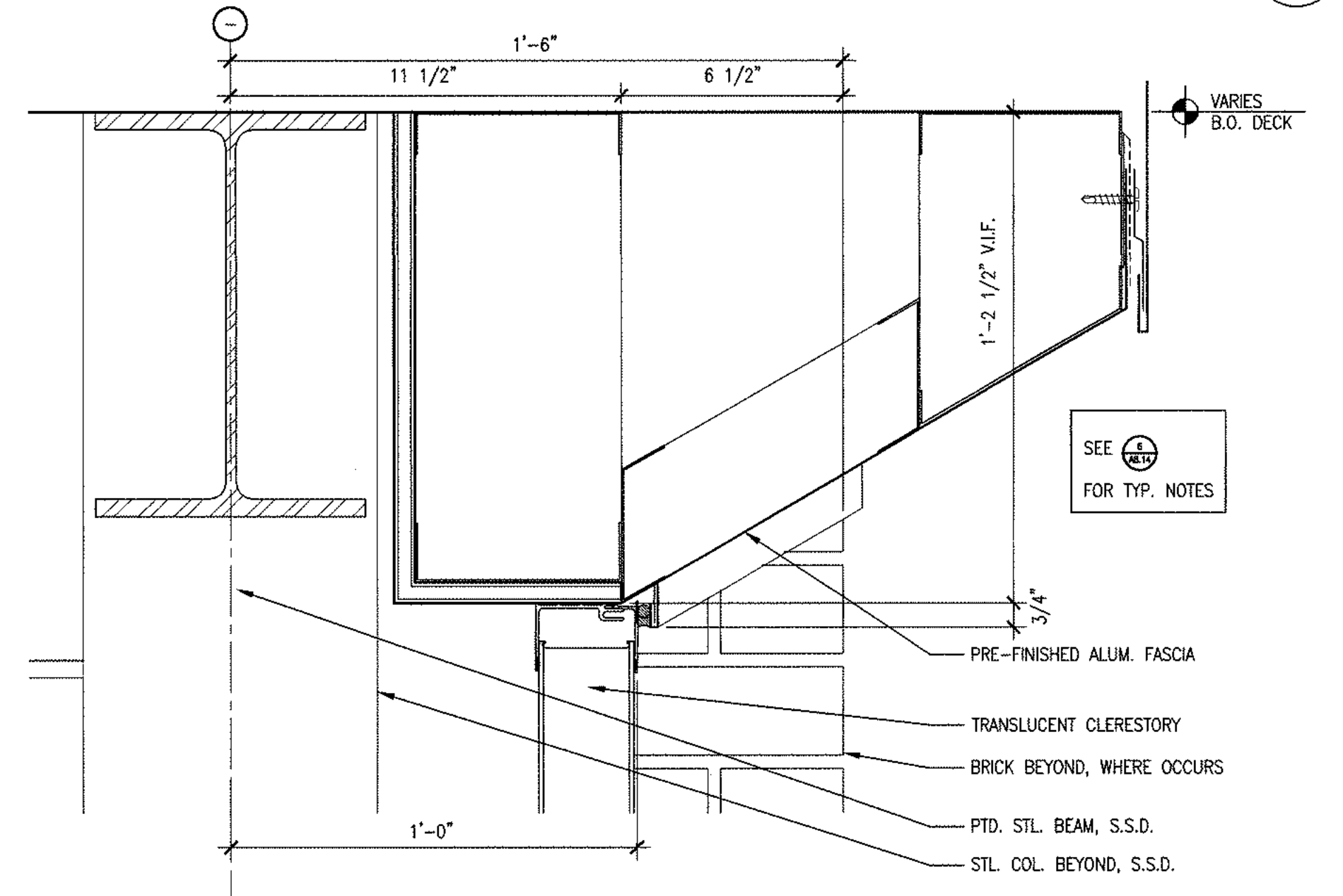
18 SILL AT CLERESTORY
3" = 1'-0"



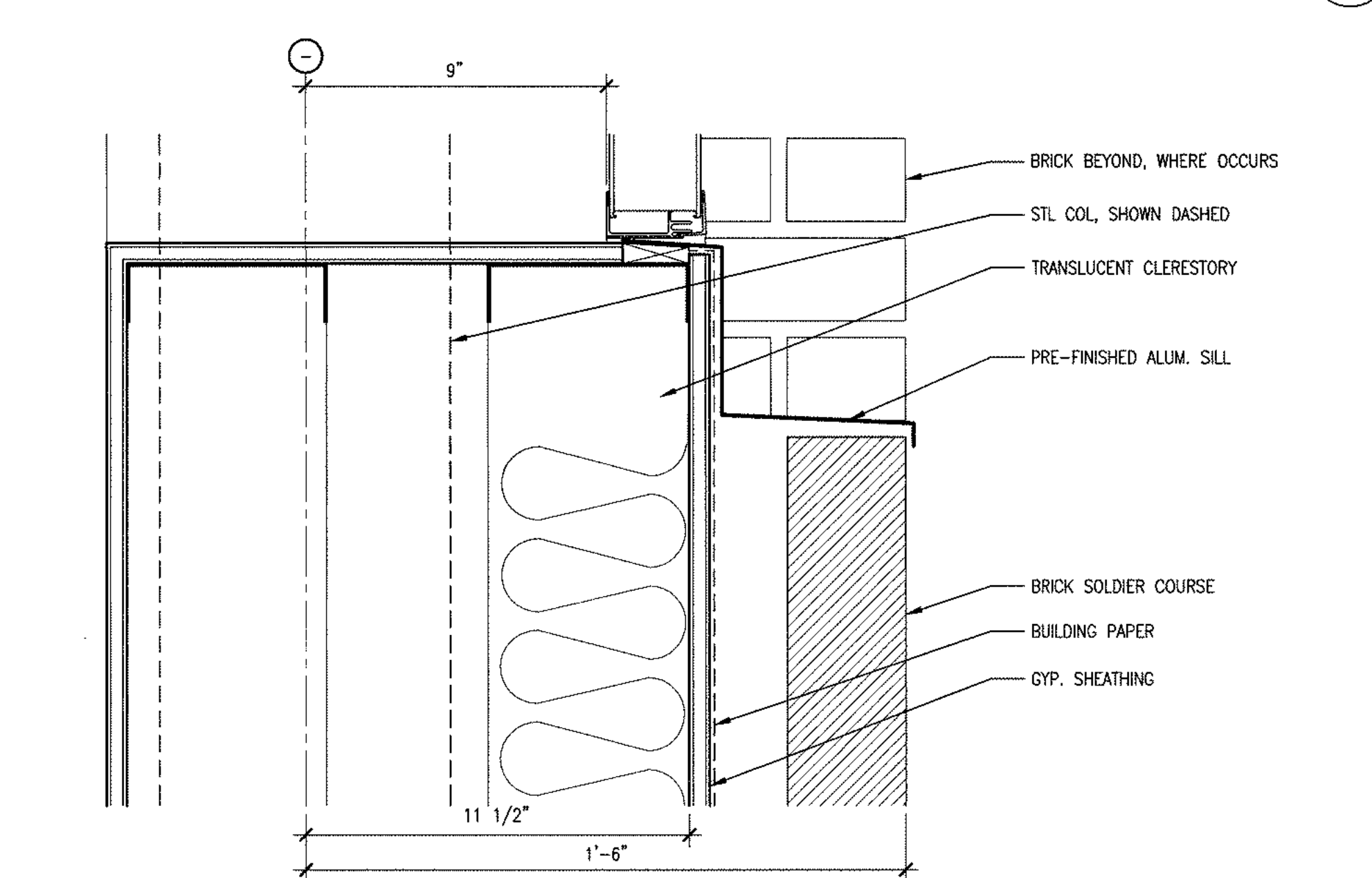
10 JAMB AT CLERESTORY
3" = 1'-0"



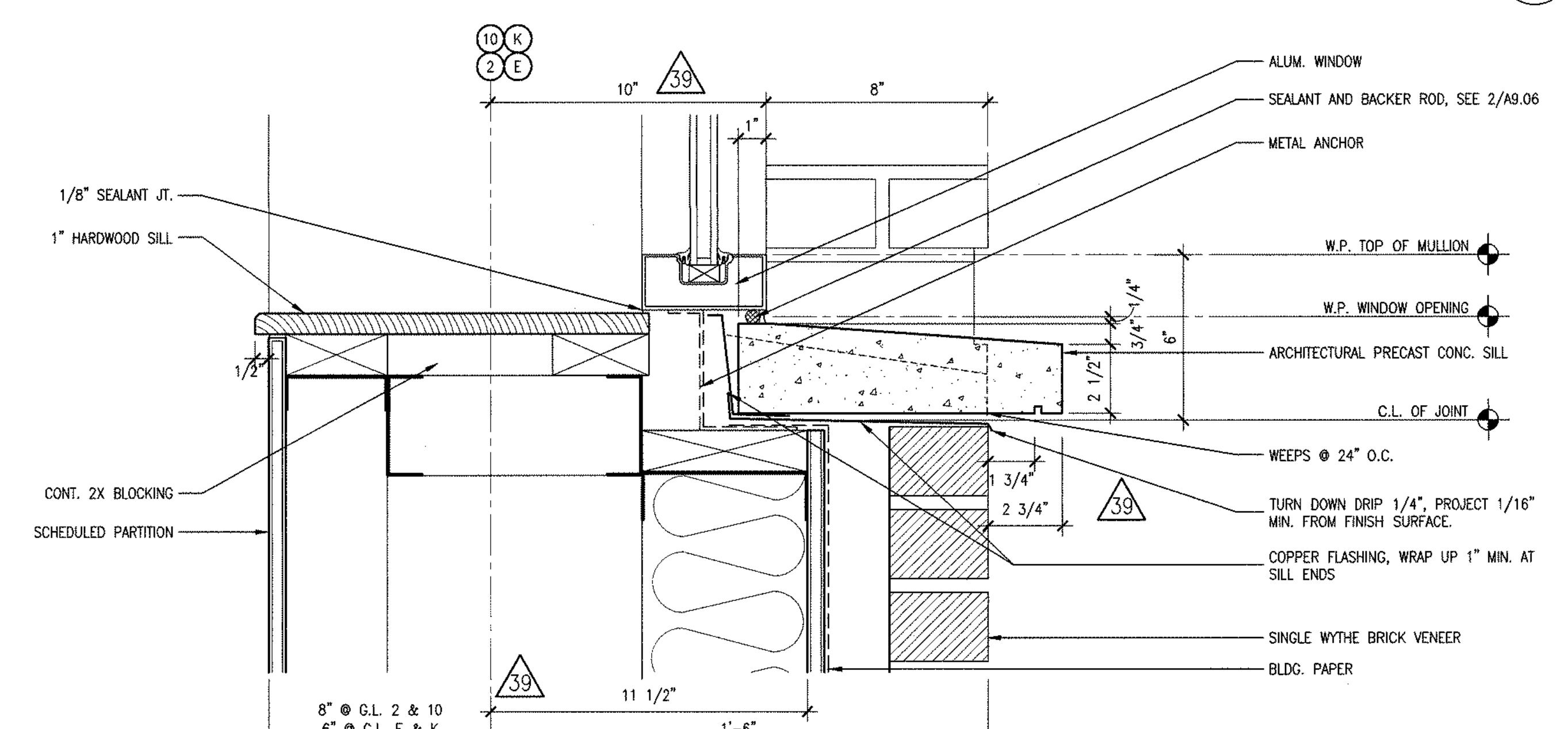
2 SILL AT 2nd FLOOR MASONRY OPENING
3" = 1'-0"



17 HEAD AT CLERESTORY
3" = 1'-0"



9 SILL AT CLERESTORY
3" = 1'-0"



1 SILL AT MASONRY OPENING
3" = 1'-0"

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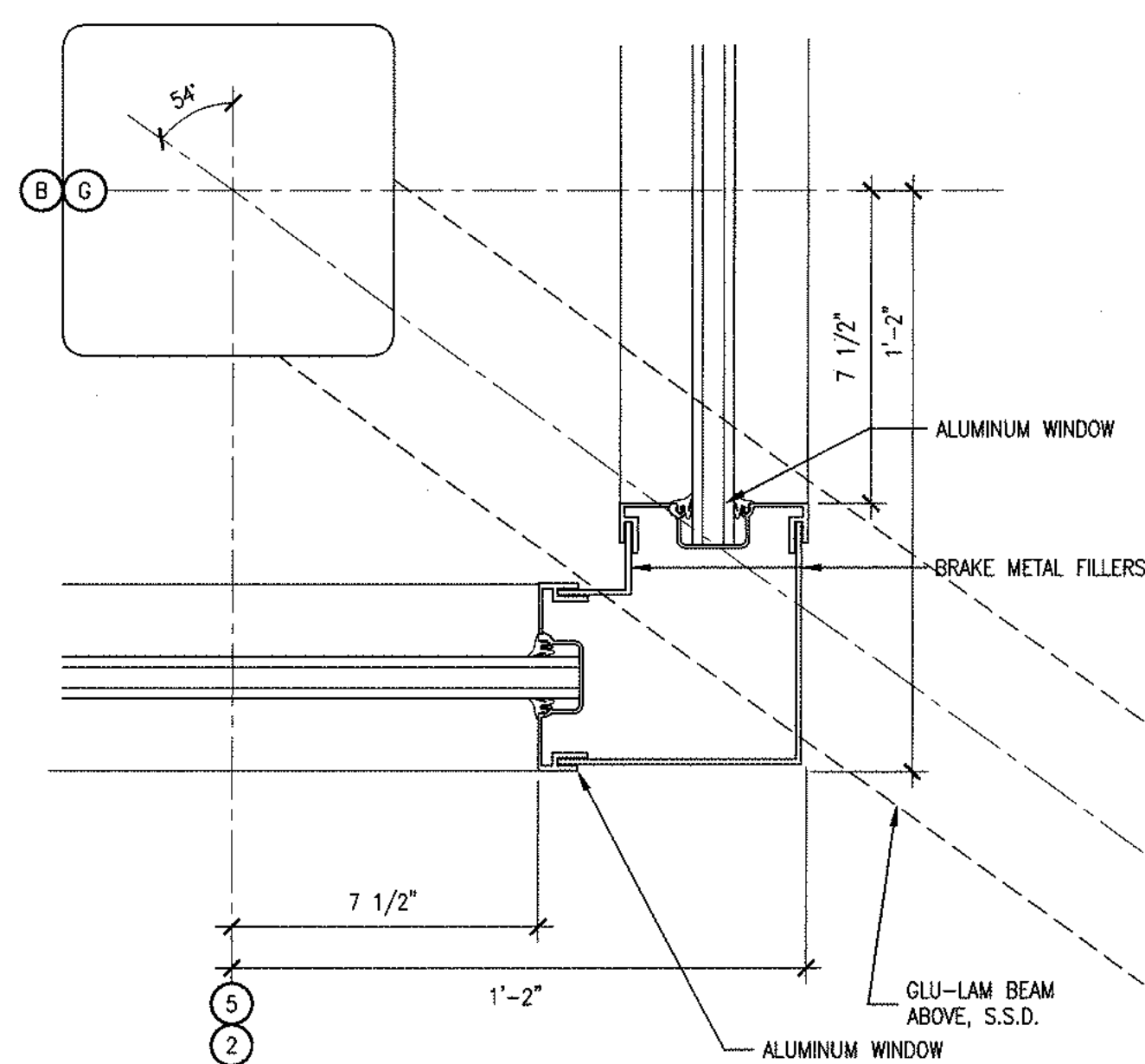
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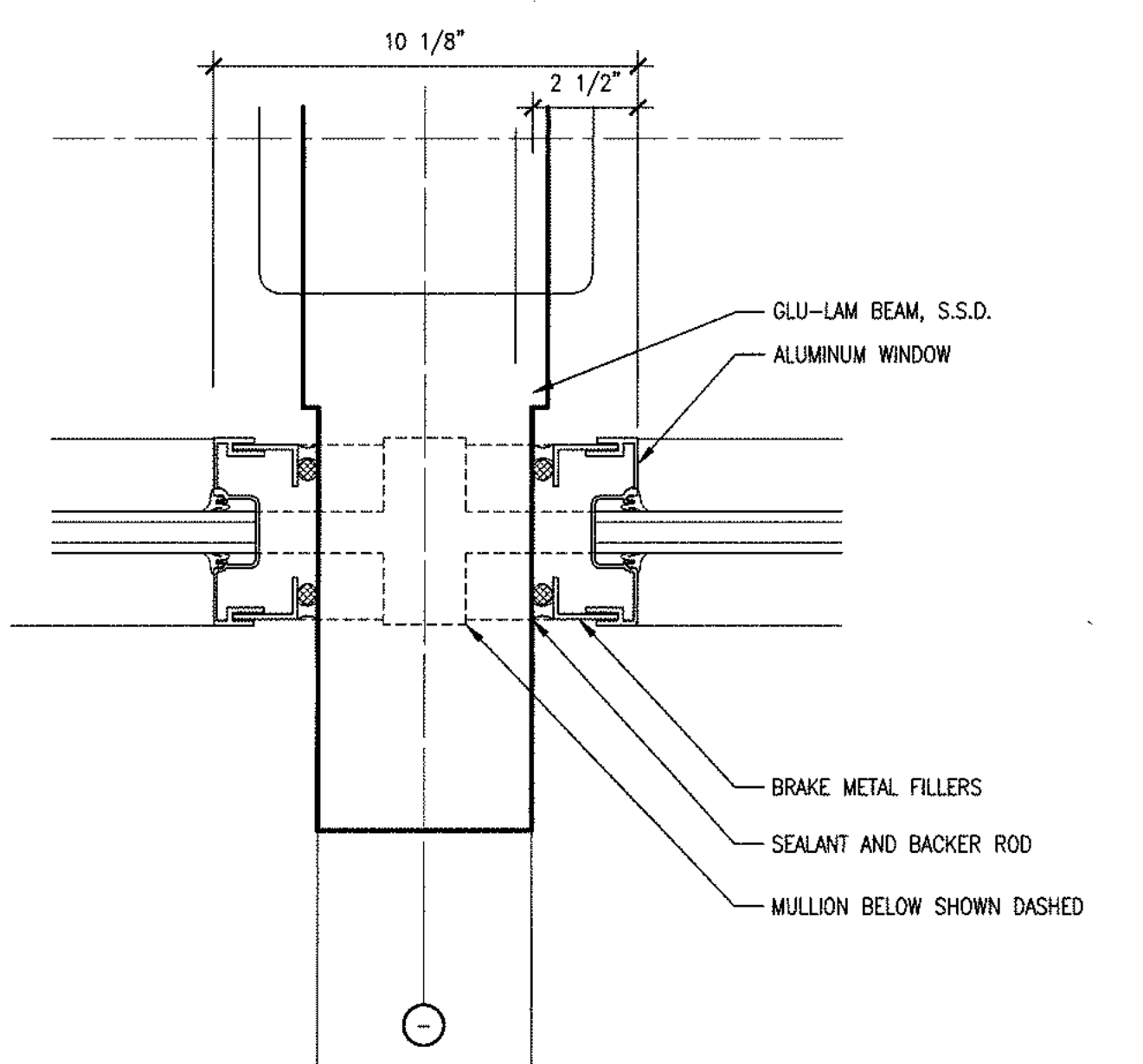
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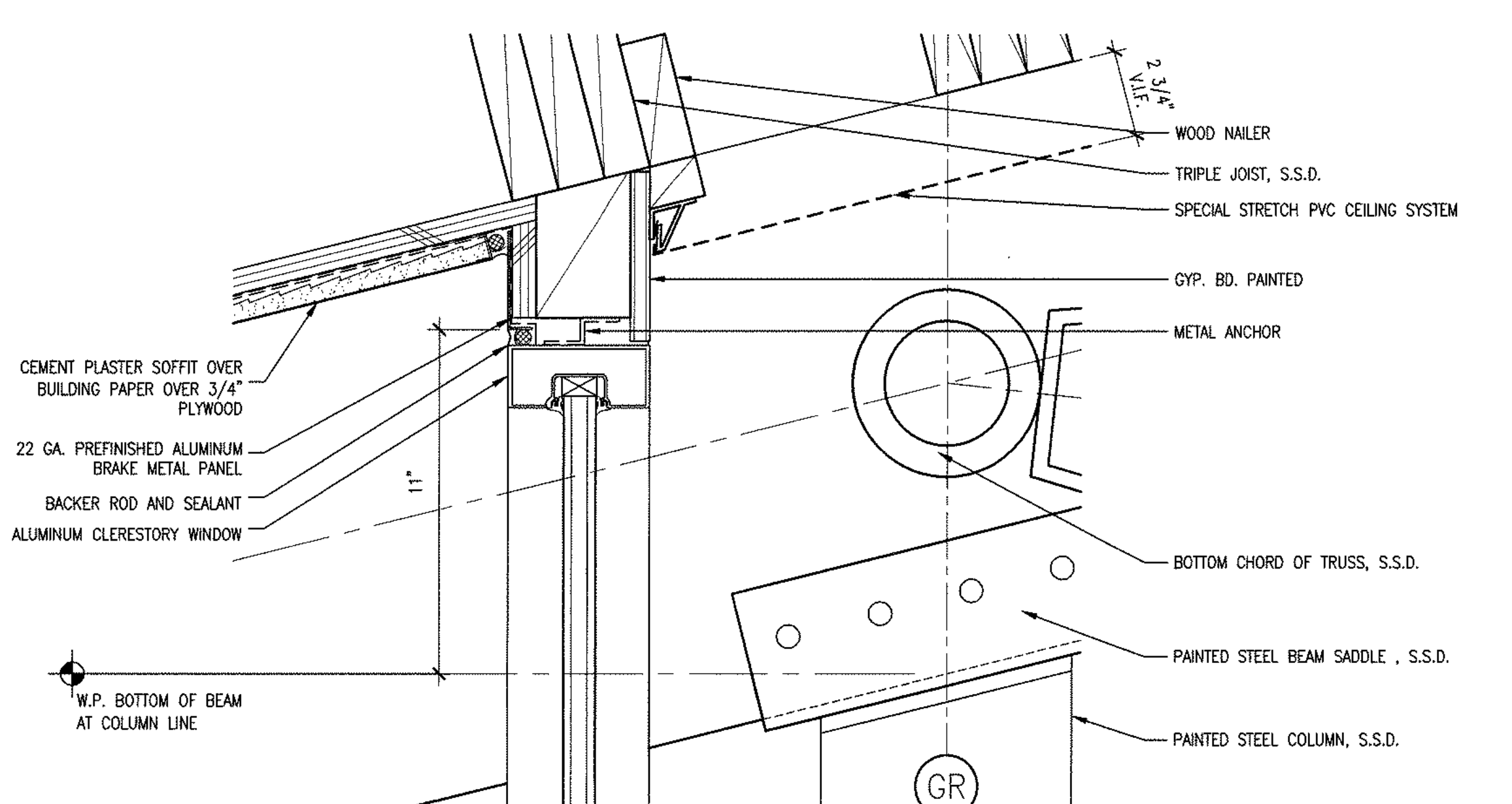
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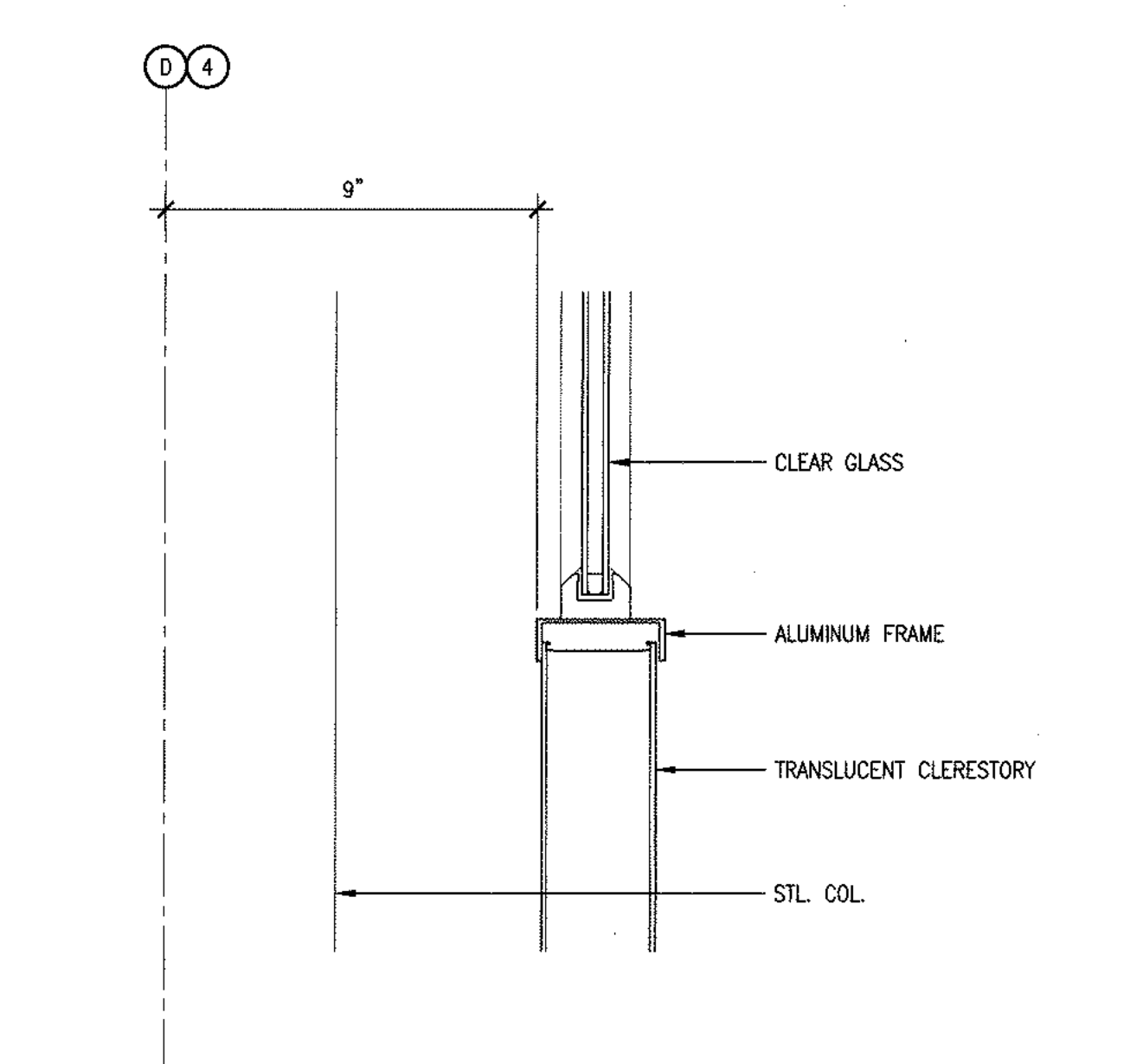
17 OUTSIDE CORNER AT ALUMINUM WINDOW WALL 3" = 1'-0"



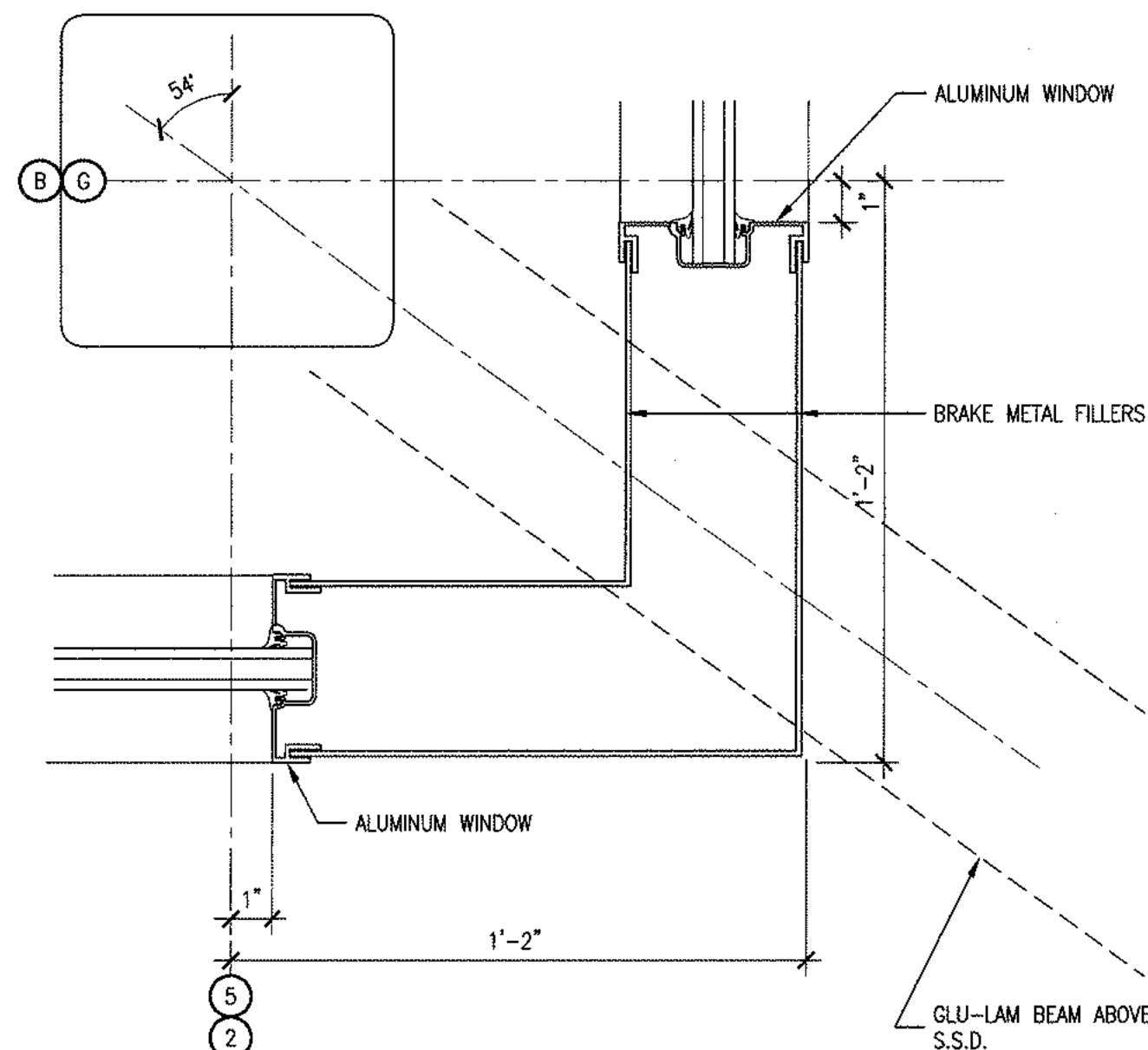
16 BEAM PENETRATION AT CLERESTORY 3" = 1'-0"



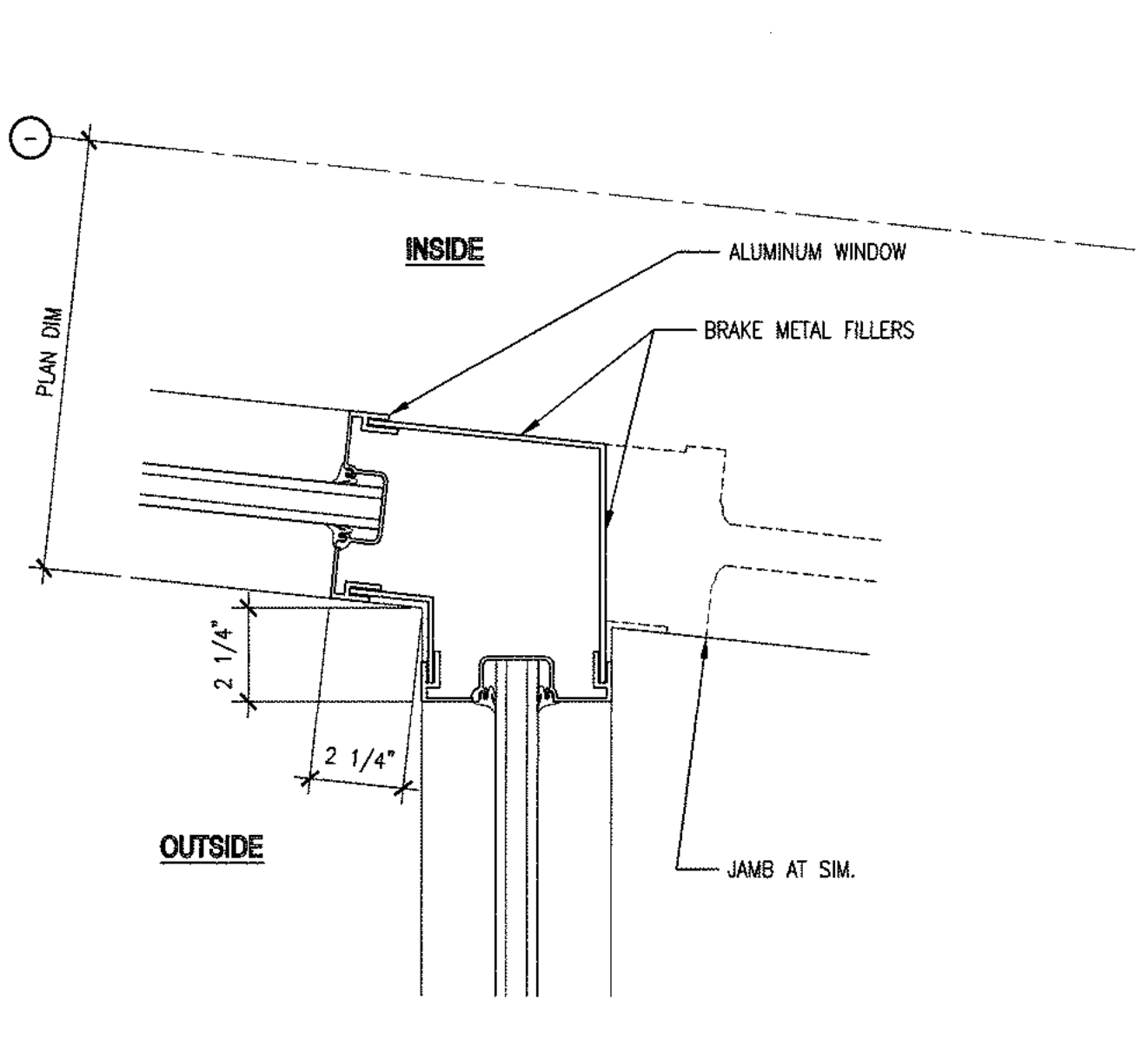
8 CELERESTORY HEAD 3" = 1'-0"



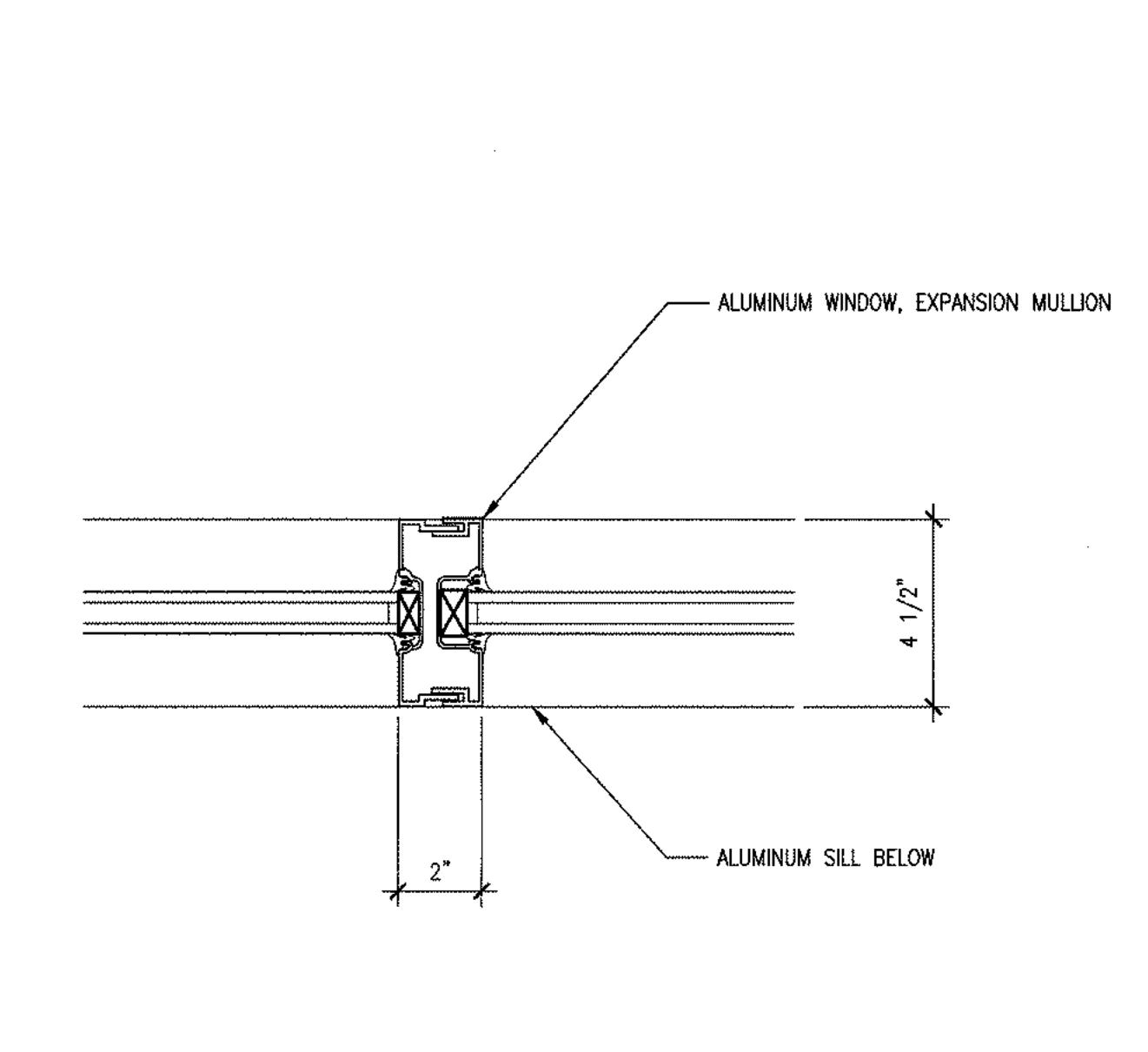
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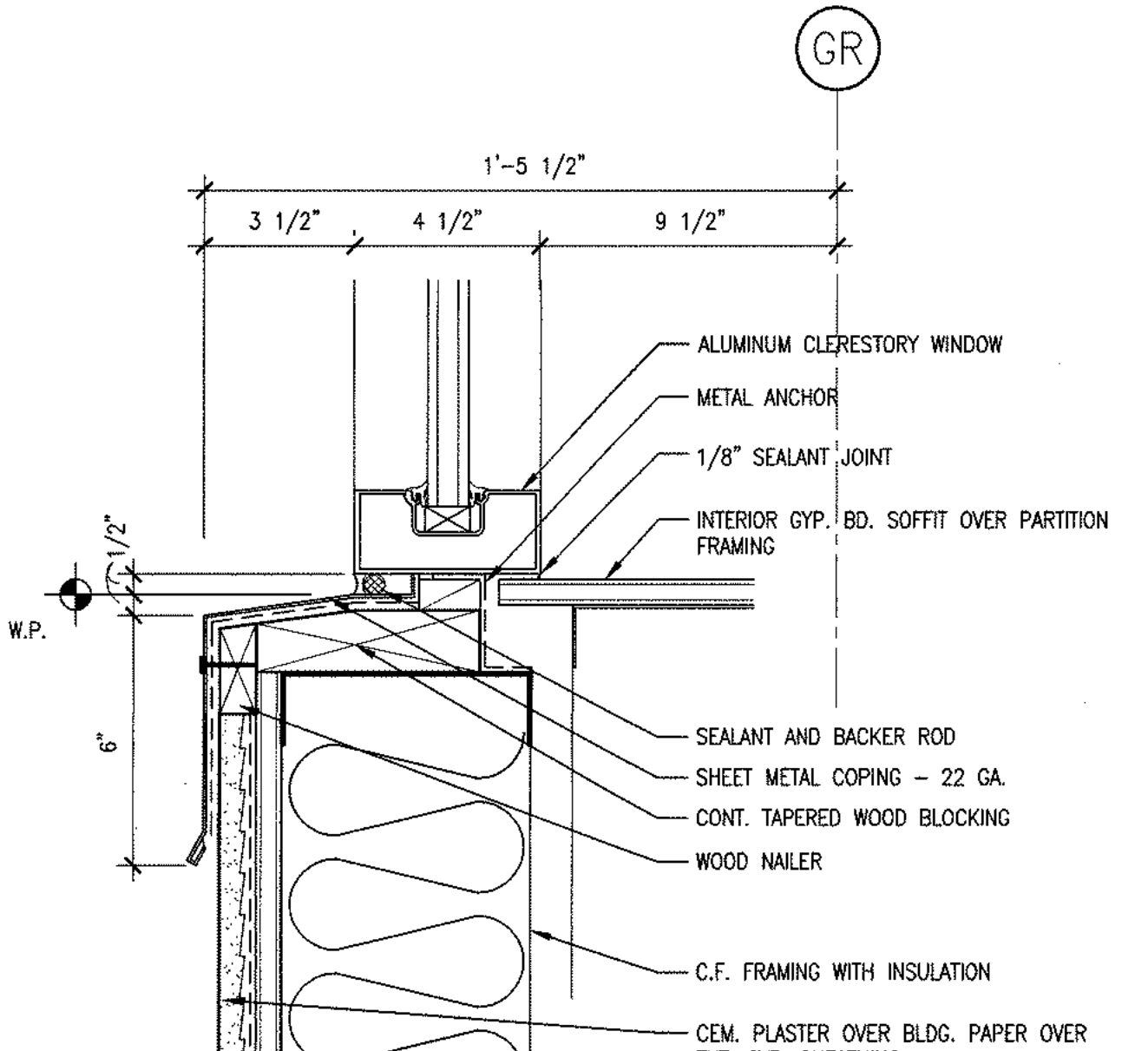
19 OUTSIDE CORNER AT ALUMINUM WINDOW WALL 3" = 1'-0"



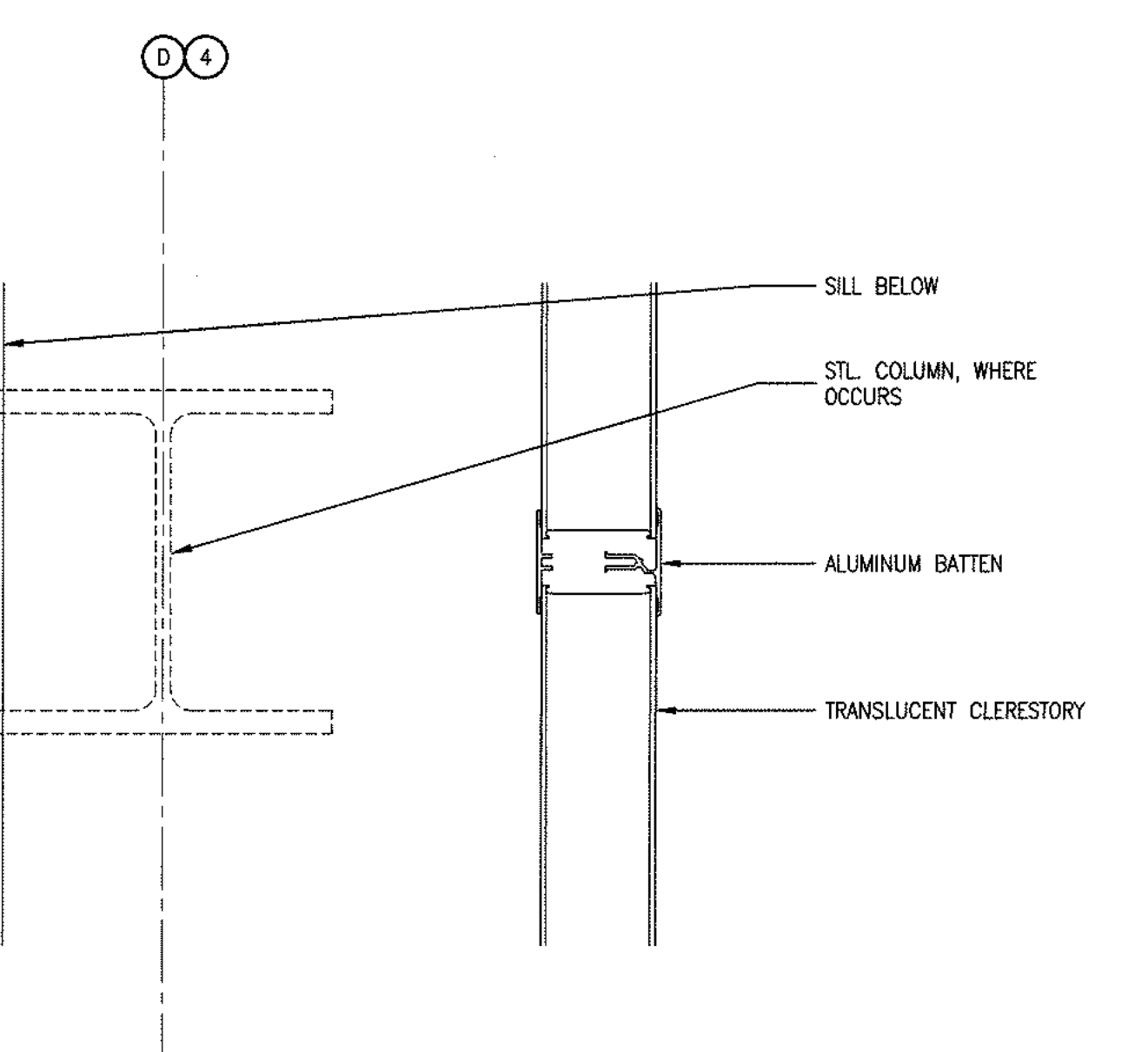
15 OUTSIDE CORNER AT ALUMINUM WINDOW WALL 3" = 1'-0"



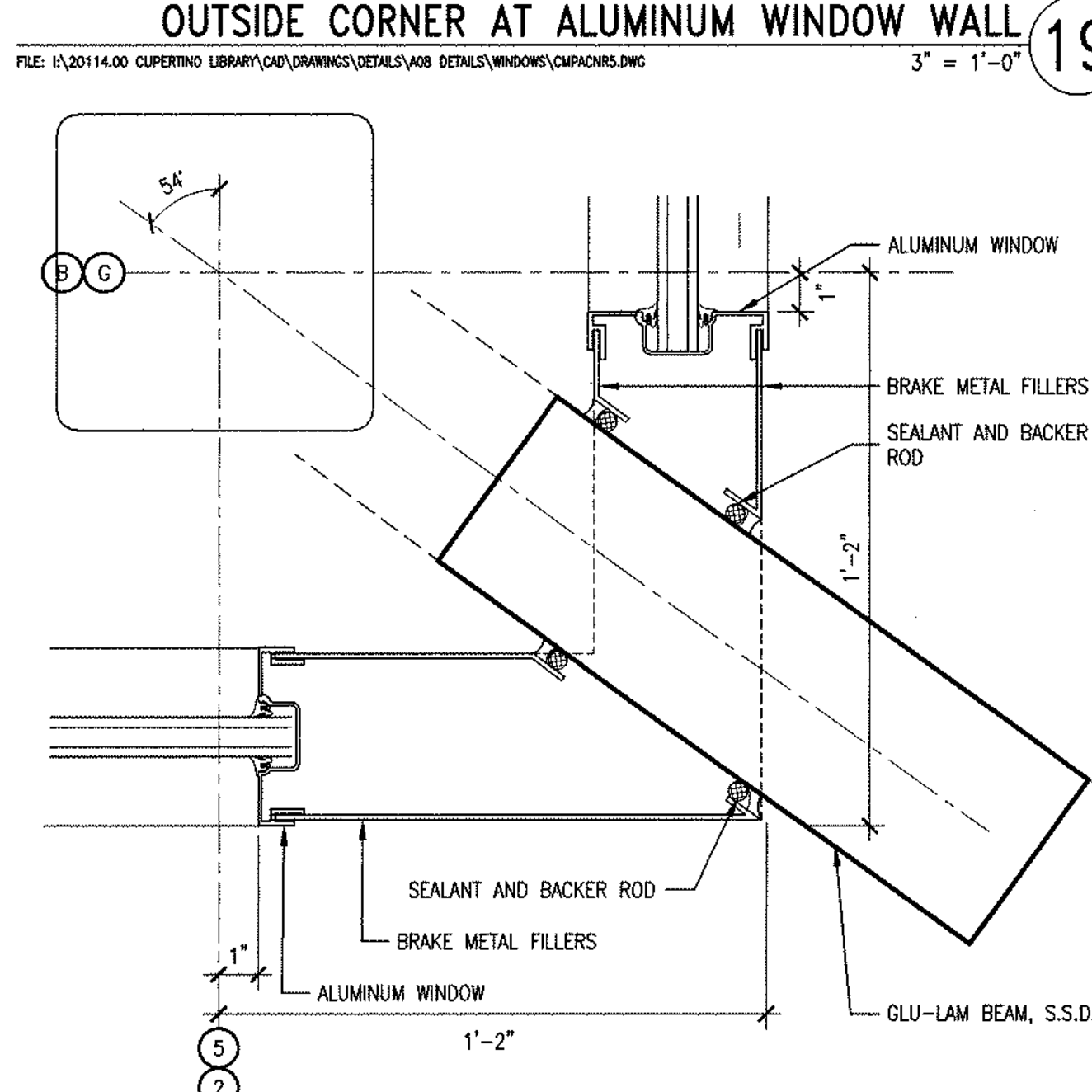
11 EXPANSION MULLION 3" = 1'-0"



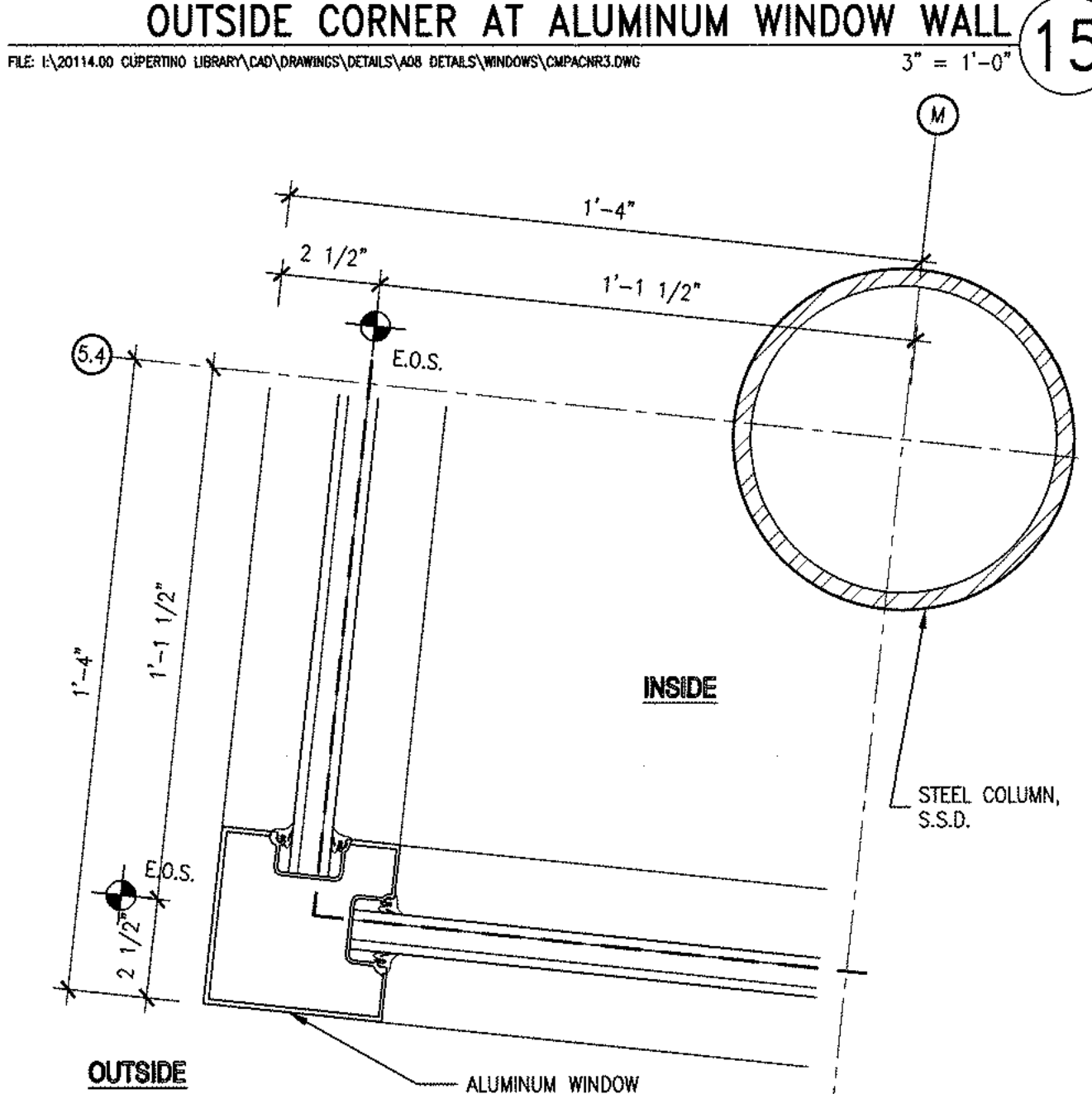
7 CELERESTORY SILL AT CEMENT PLASTER 3" = 1'-0"



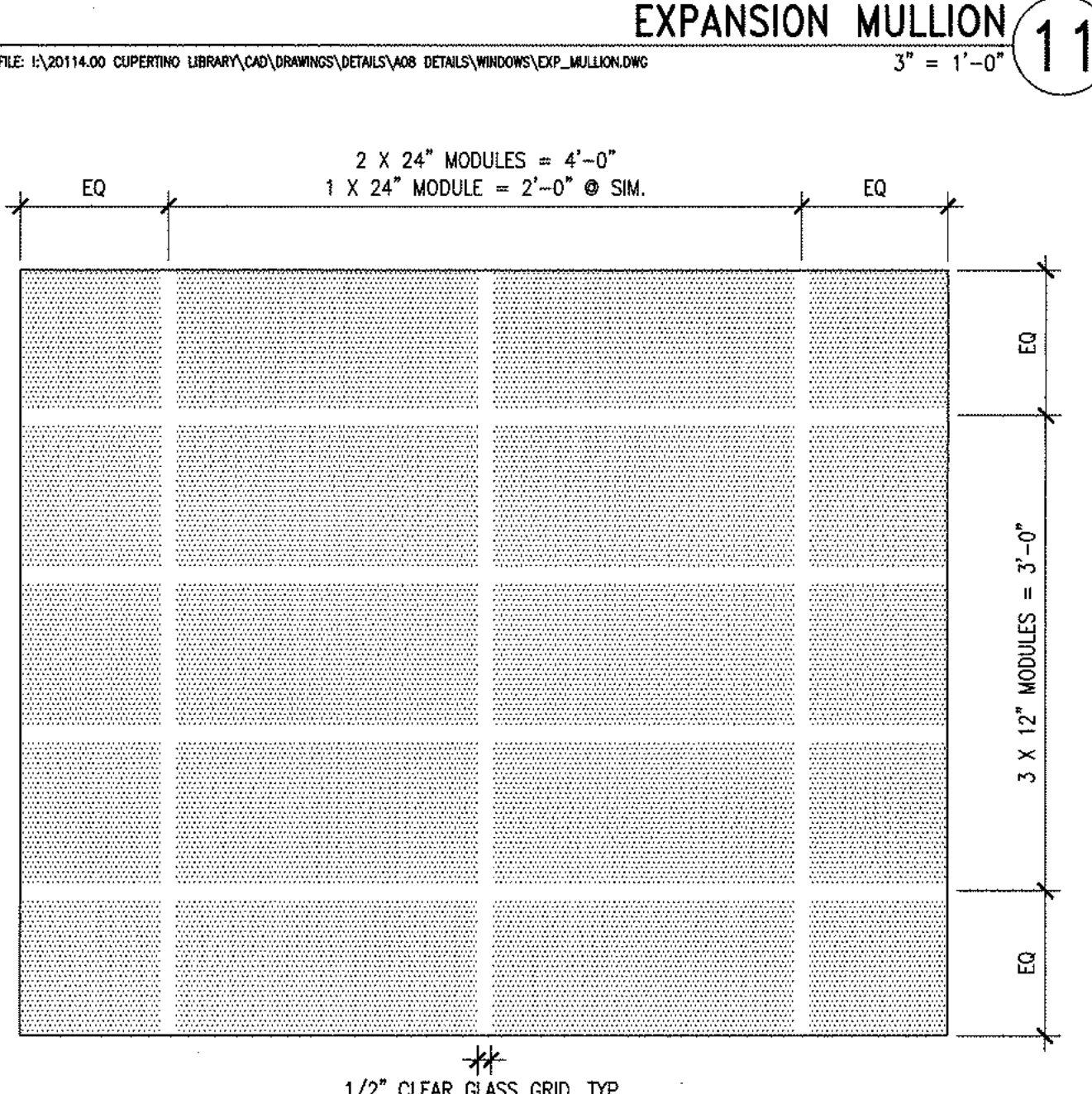
3 VERTICAL BATTEN AT CLERESTORY 3" = 1'-0"



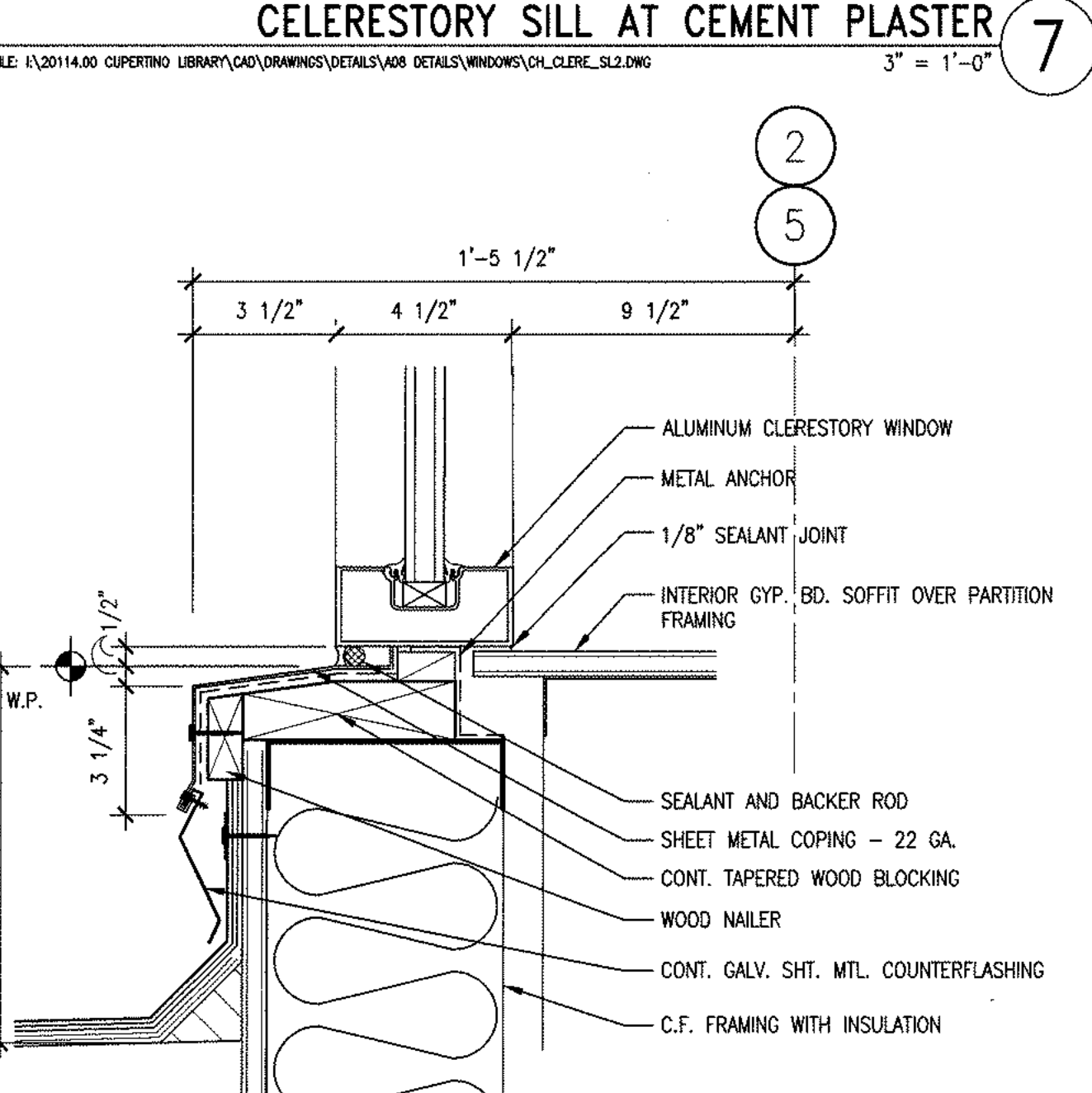
18 OUTSIDE CORNER AT ALUMINUM WINDOW WALL 3" = 1'-0"



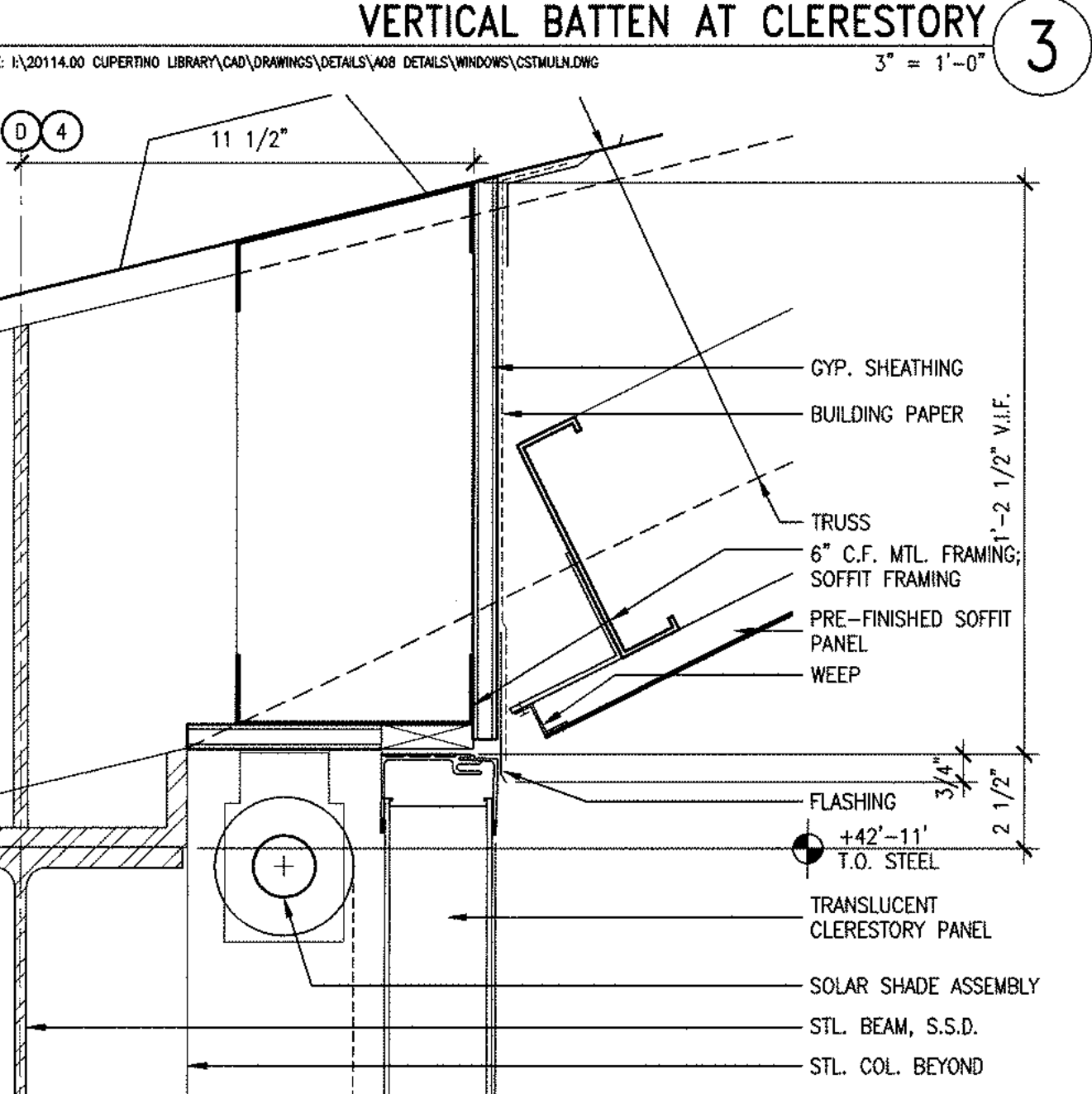
14 OUTSIDE CORNER AT ALUMINUM WINDOW WALL 3" = 1'-0"



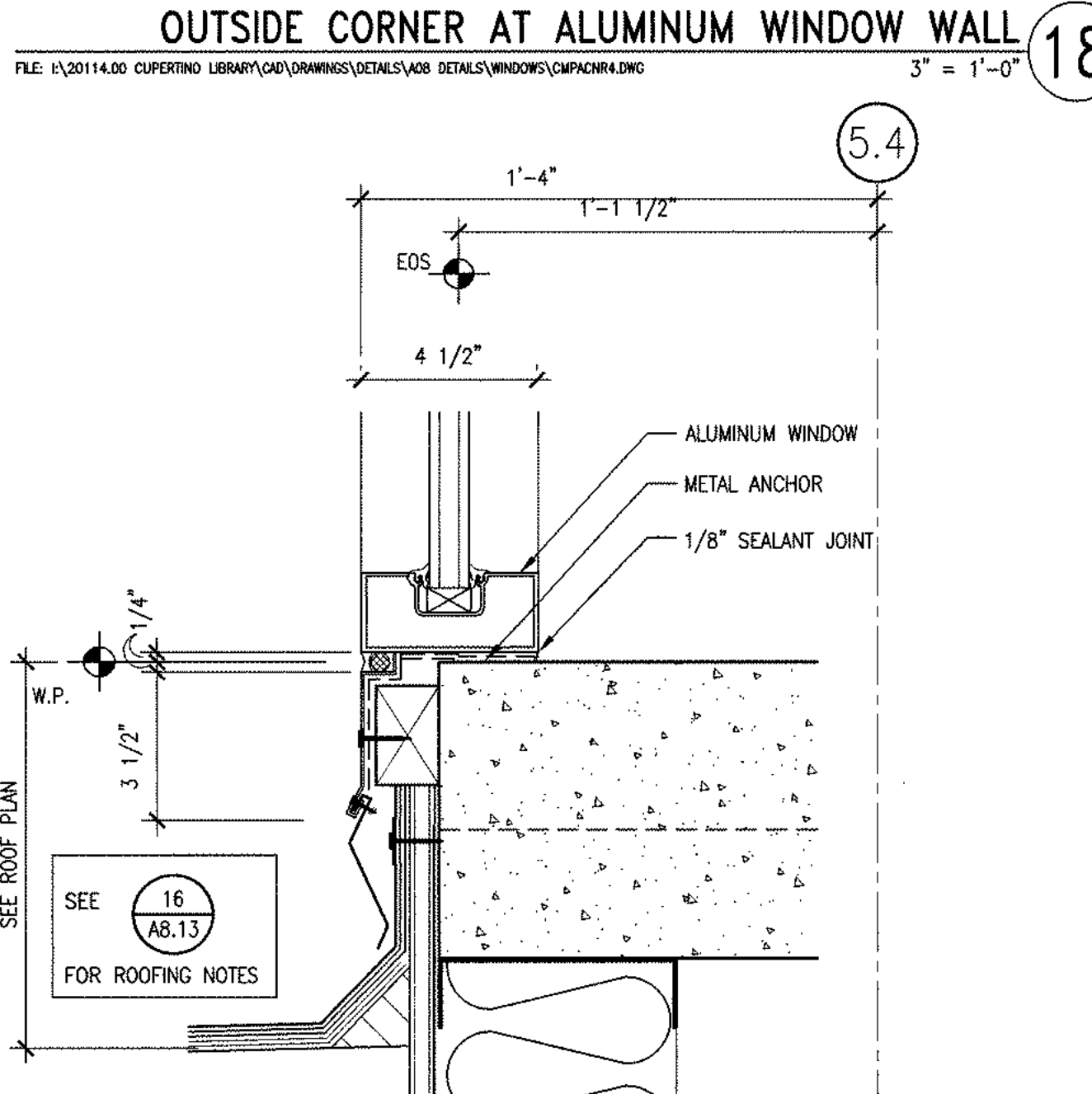
10 TRANSLUCENT GLASS PATTERN 1" = 1'-0"



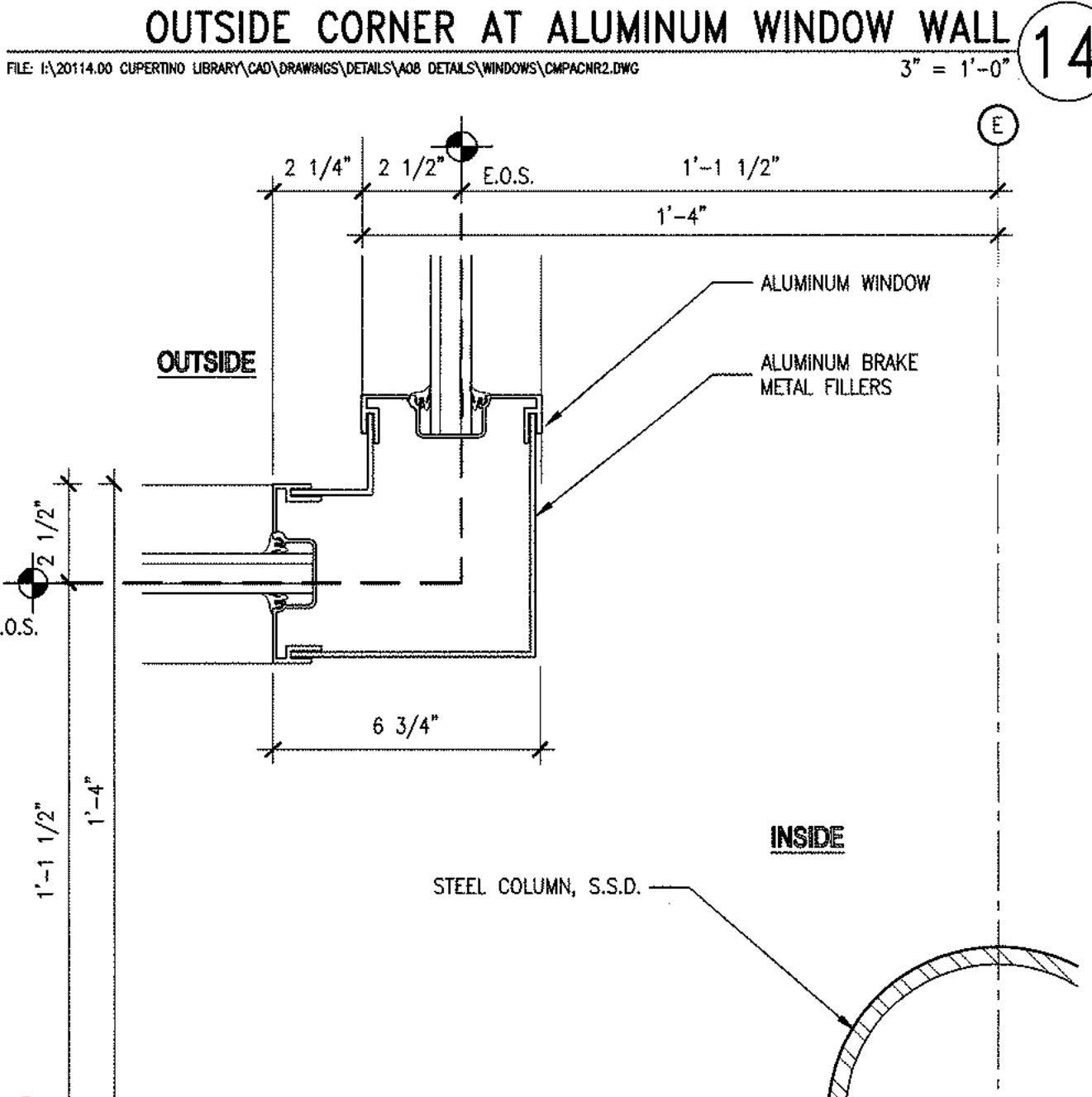
6 CELERESTORY SILL AT ROOF 3" = 1'-0"



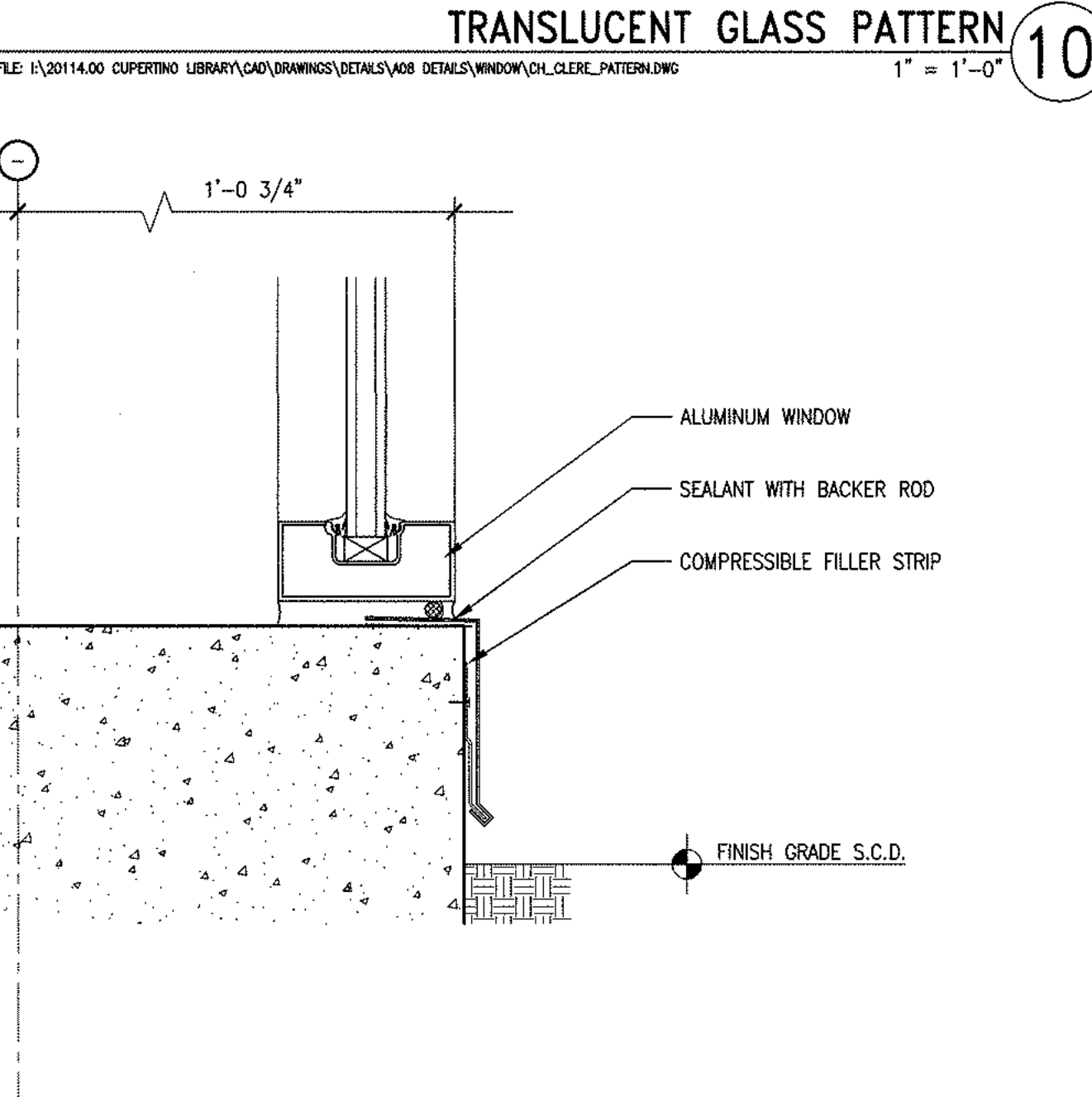
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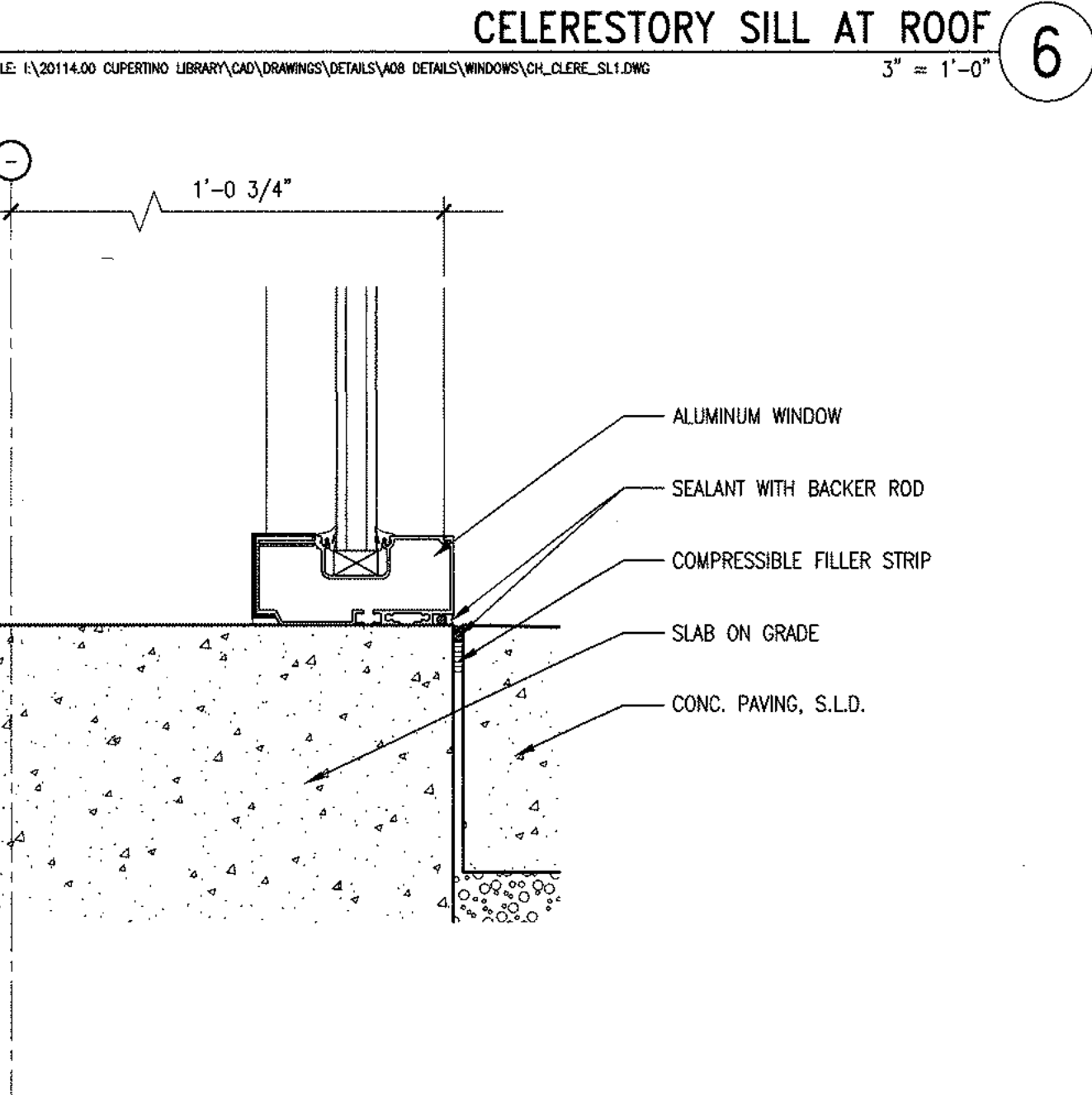
17 WINDOW SILL AT LOW ROOF 3" = 1'-0"



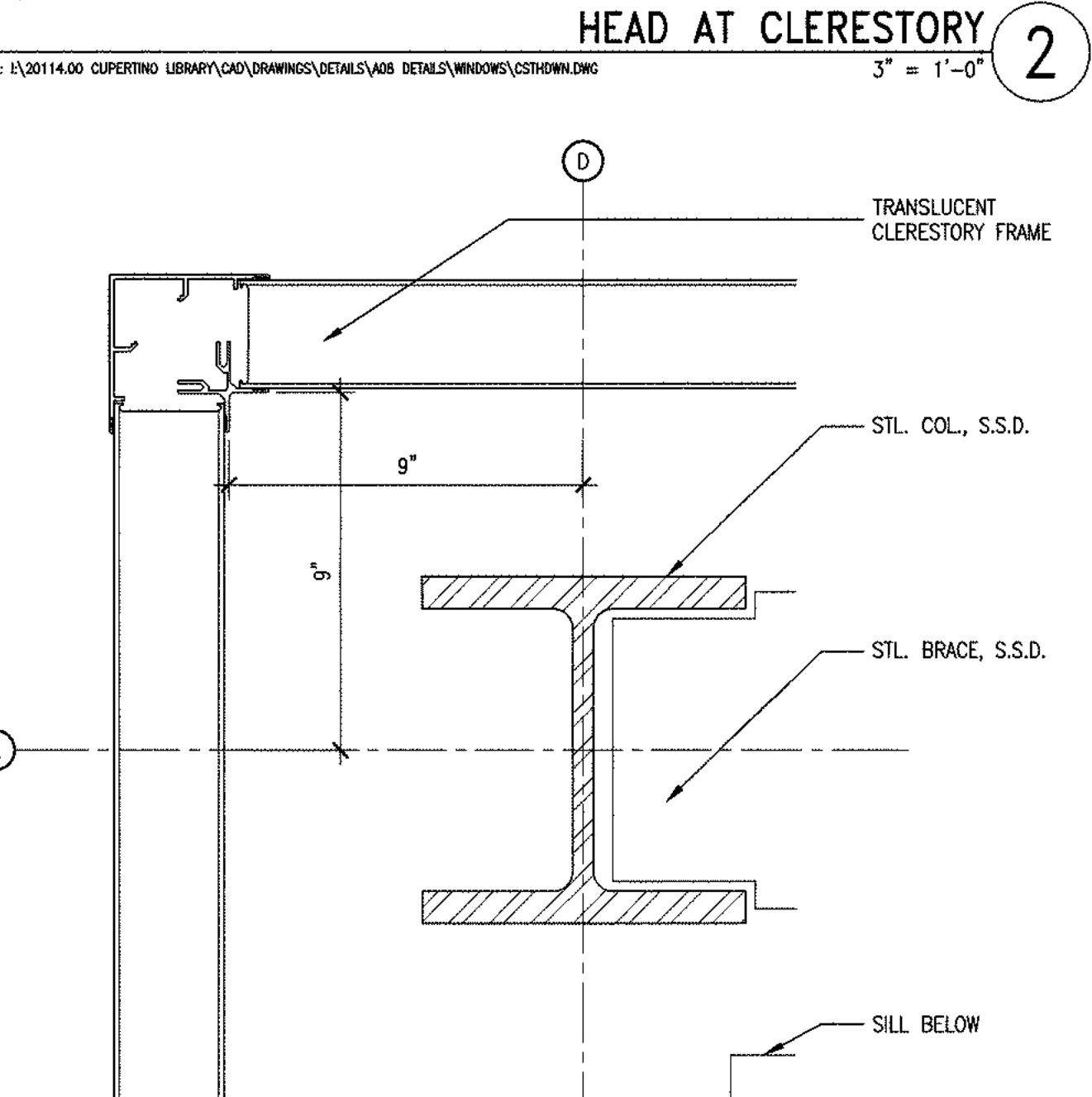
13 INSIDE CORNER AT ALUMINUM WINDOW WALL 3" = 1'-0"



9 SILL AT ALUMINUM WINDOW WALL 3" = 1'-0"



5 SILL AT ALUMINUM WINDOW WALL 3" = 1'-0"



1 CORNER AT CLERESTORY 3" = 1'-0"

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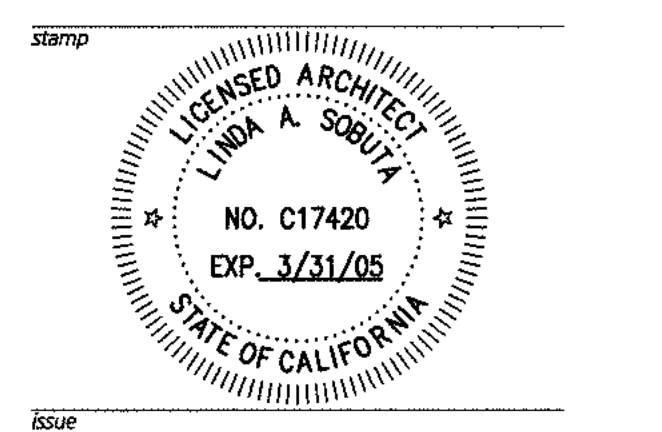
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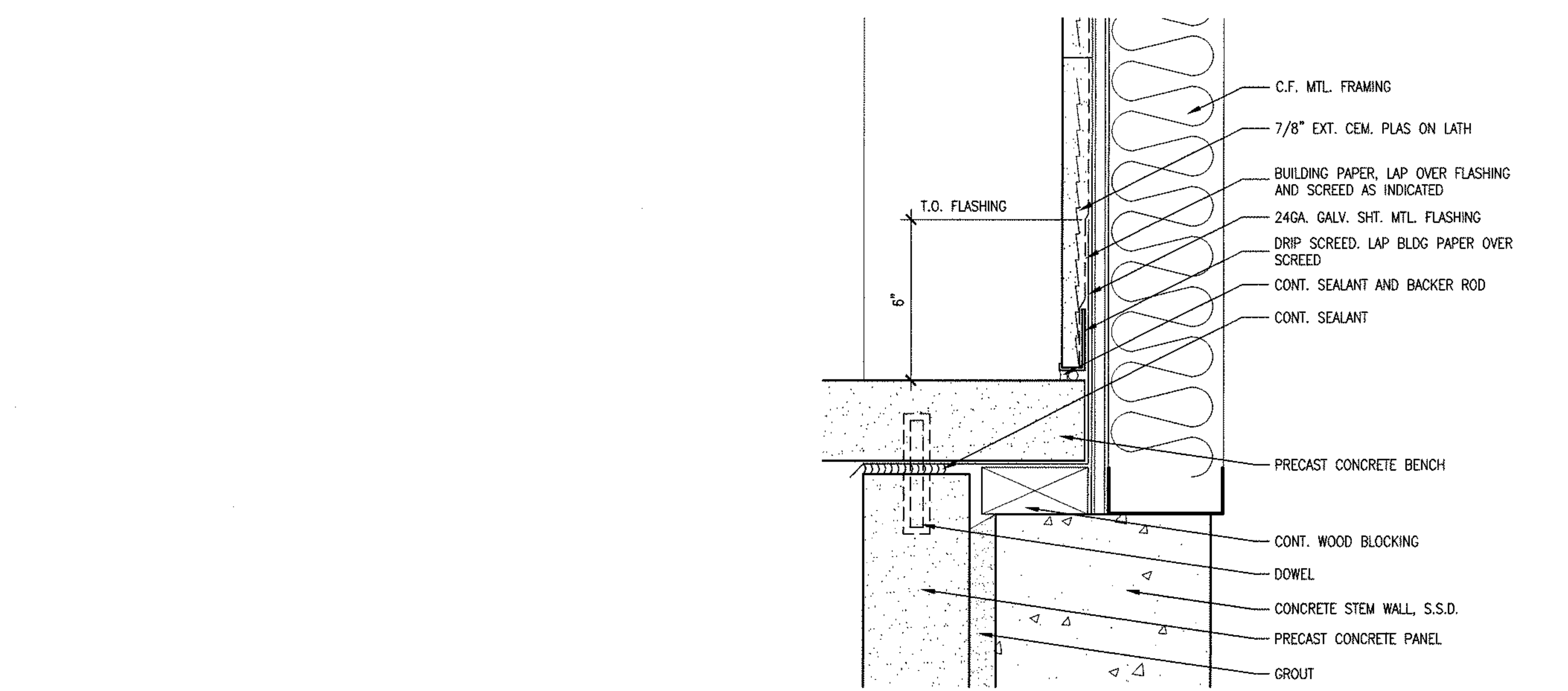
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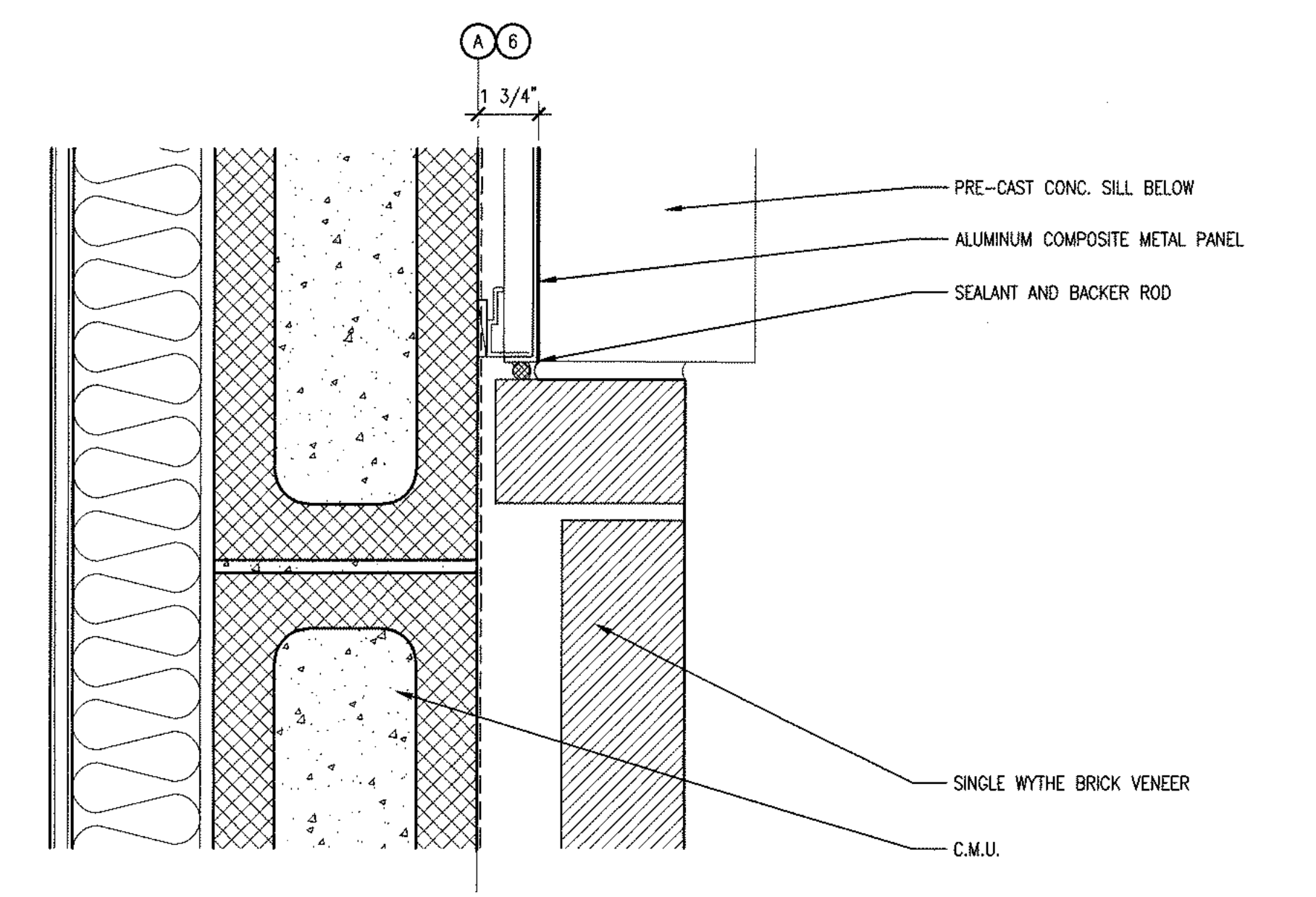
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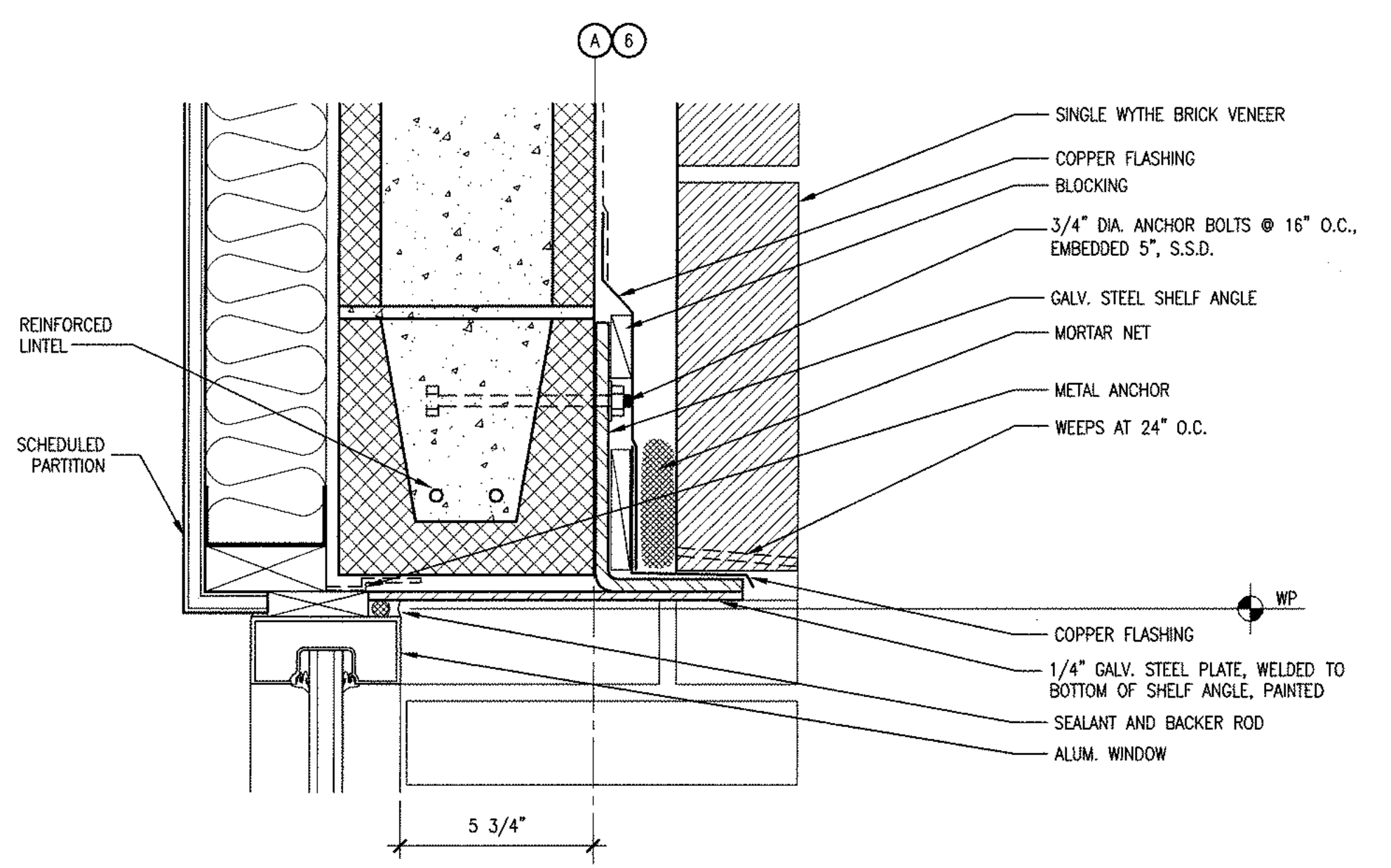
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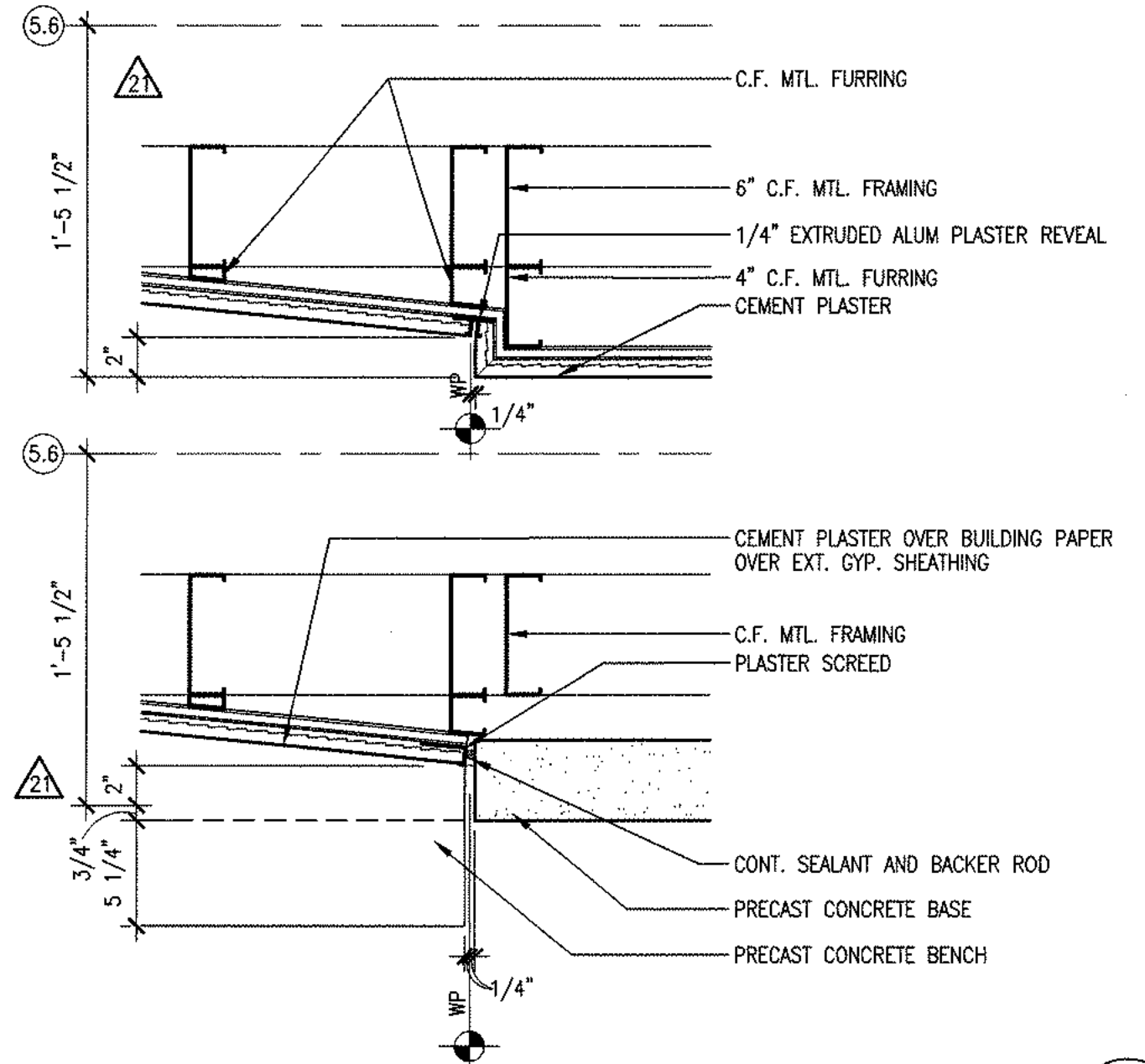
20 EXTERIOR PLASTER AT PRECAST CONCRETE 3" = 1'-0"



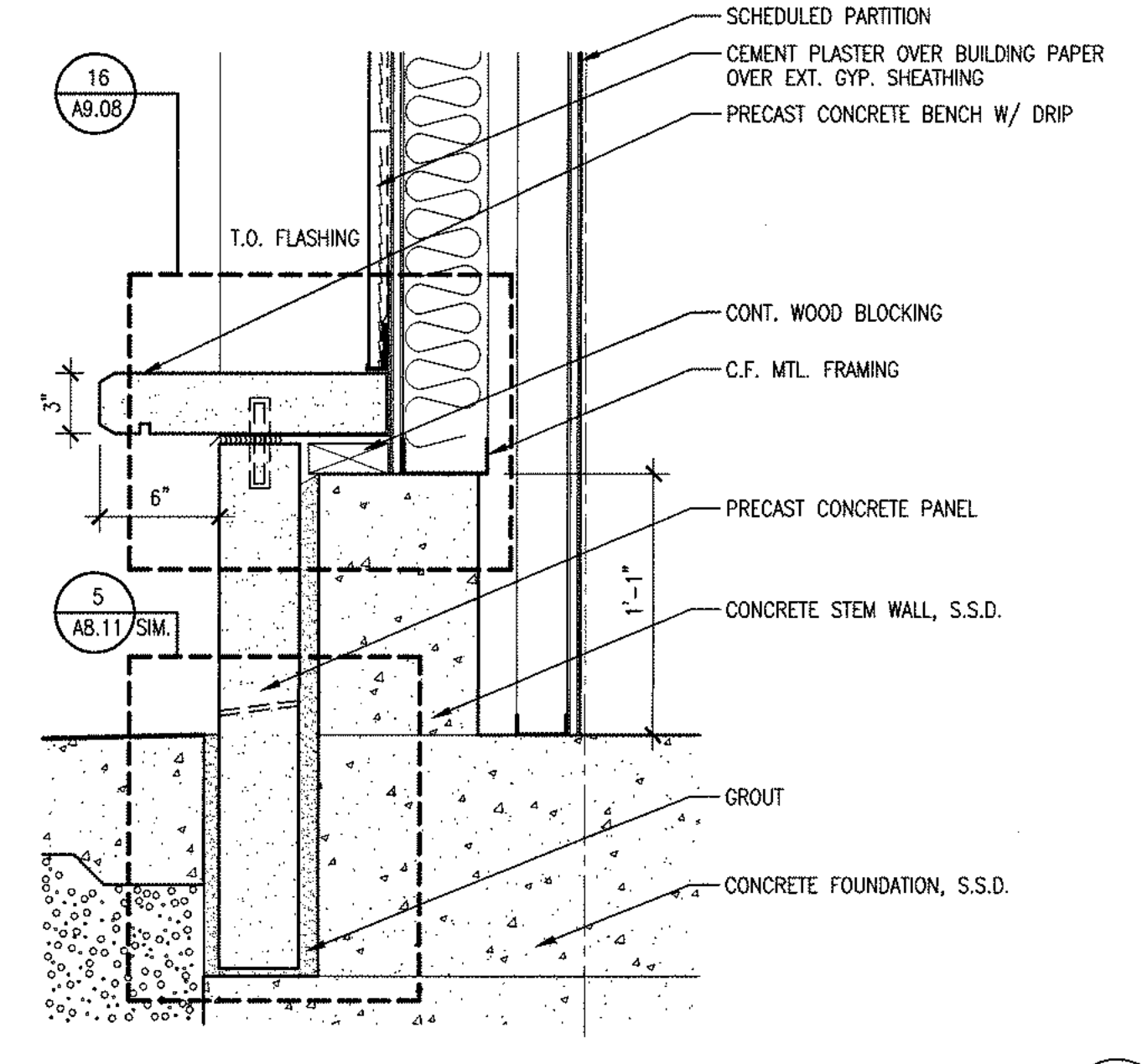
12 JAMB AT ALUMINUM COMPOSITE PANEL @ MASONRY OPENING 3" = 1'-0"



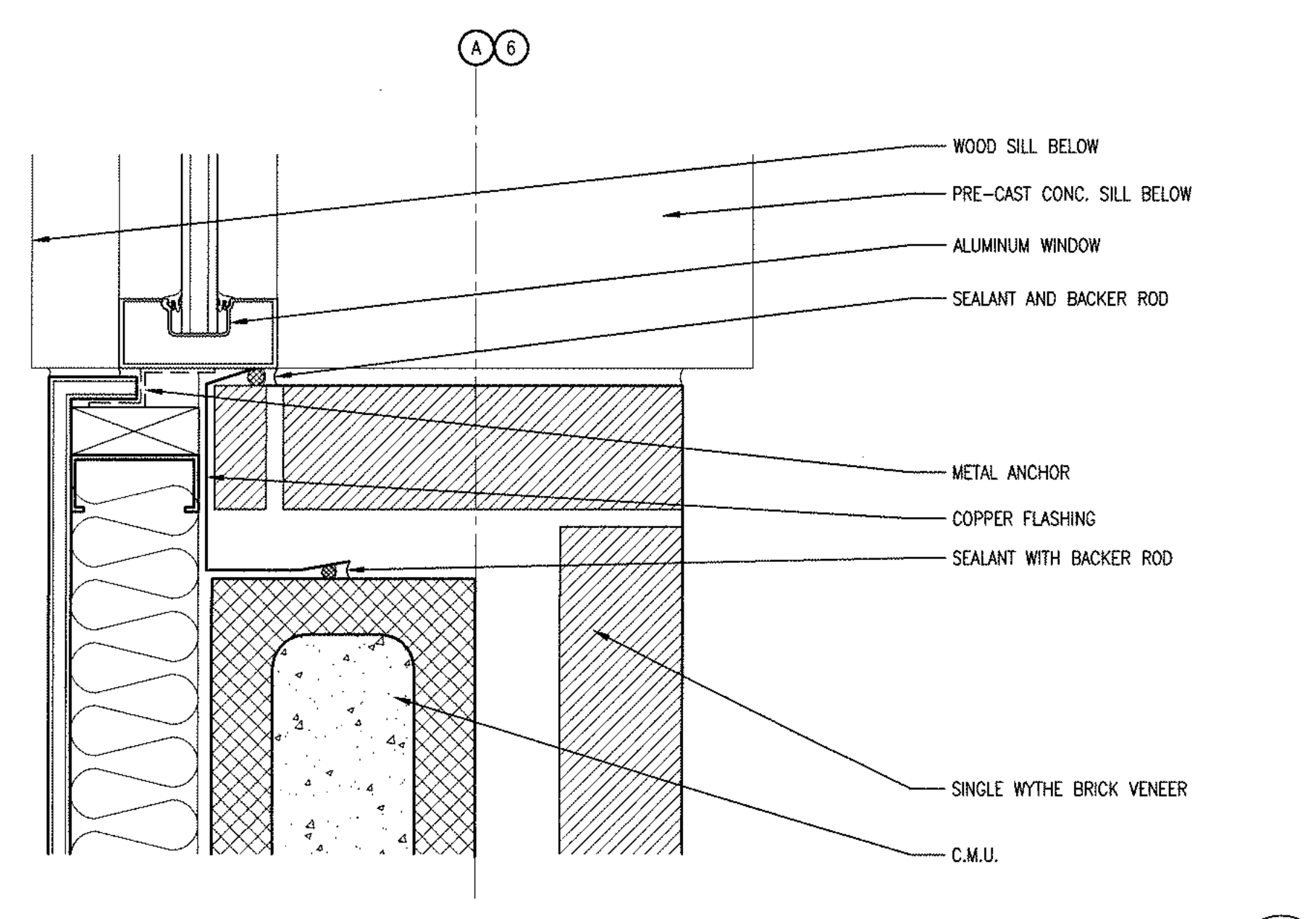
4 HEAD AT CMU & BRICK WALL 3" = 1'-0"



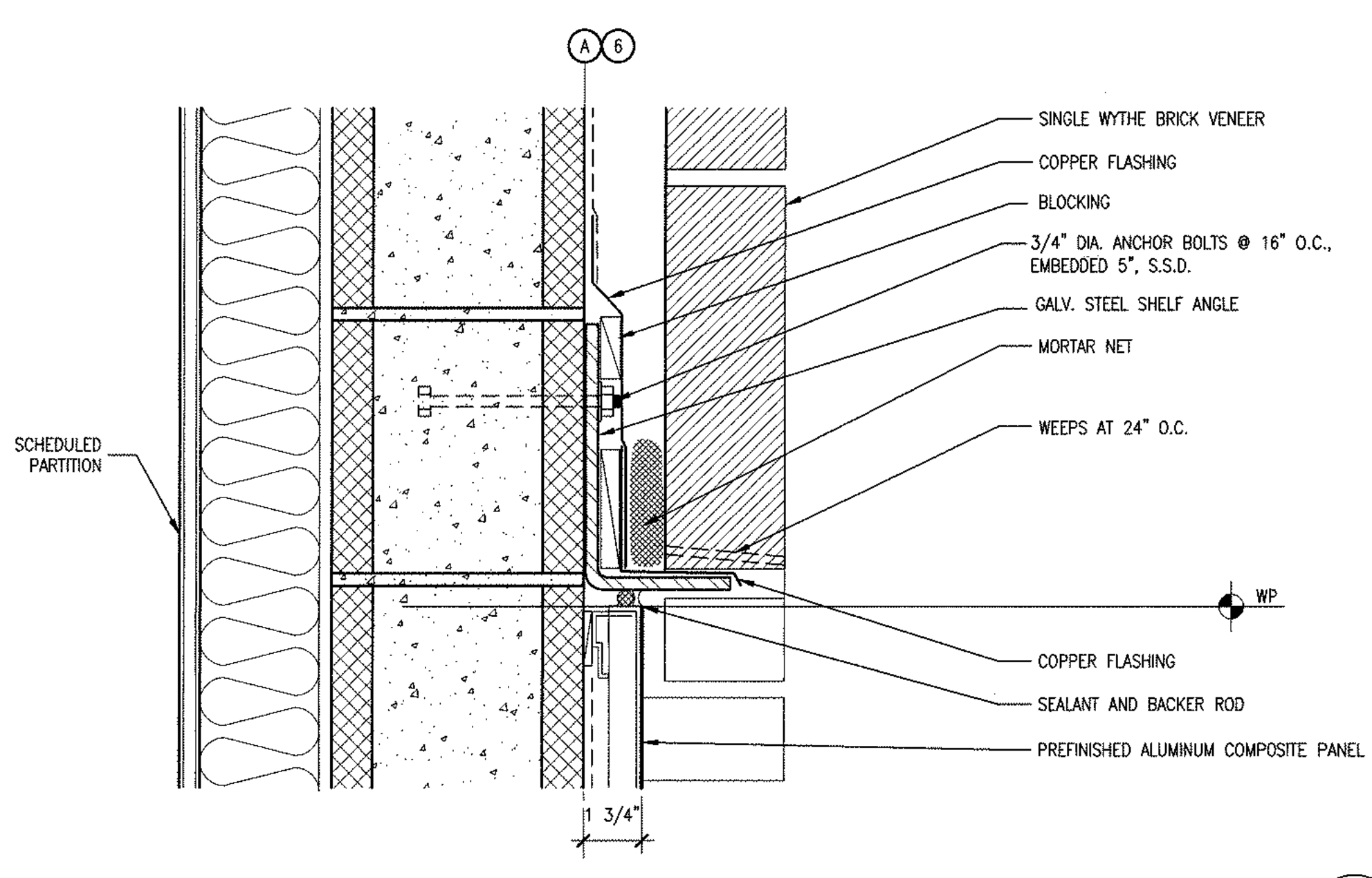
19 BENCH PLAN DETAIL 1 1/2\"/>



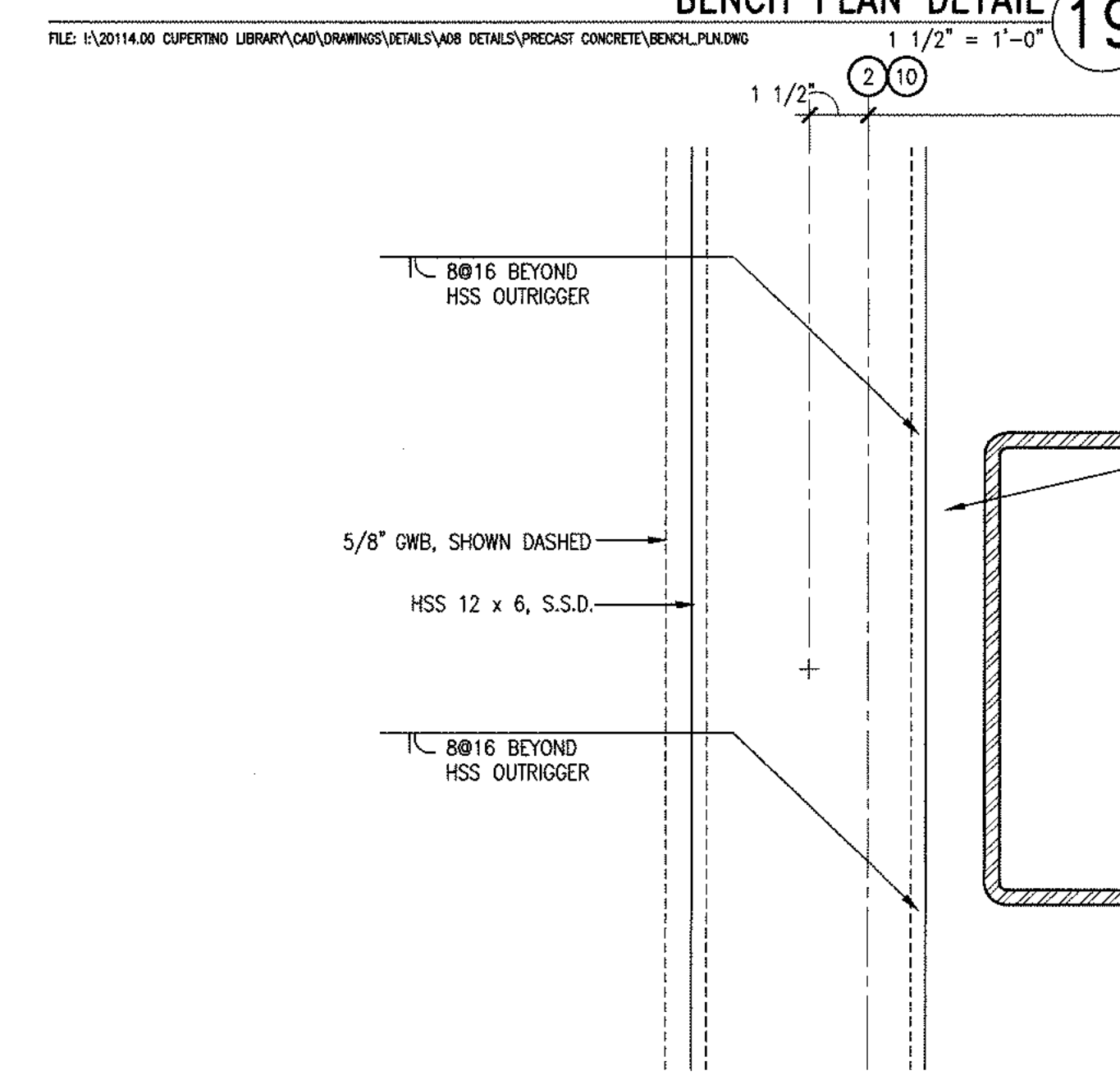
15 BENCH SECTION 1 1/2\"/>



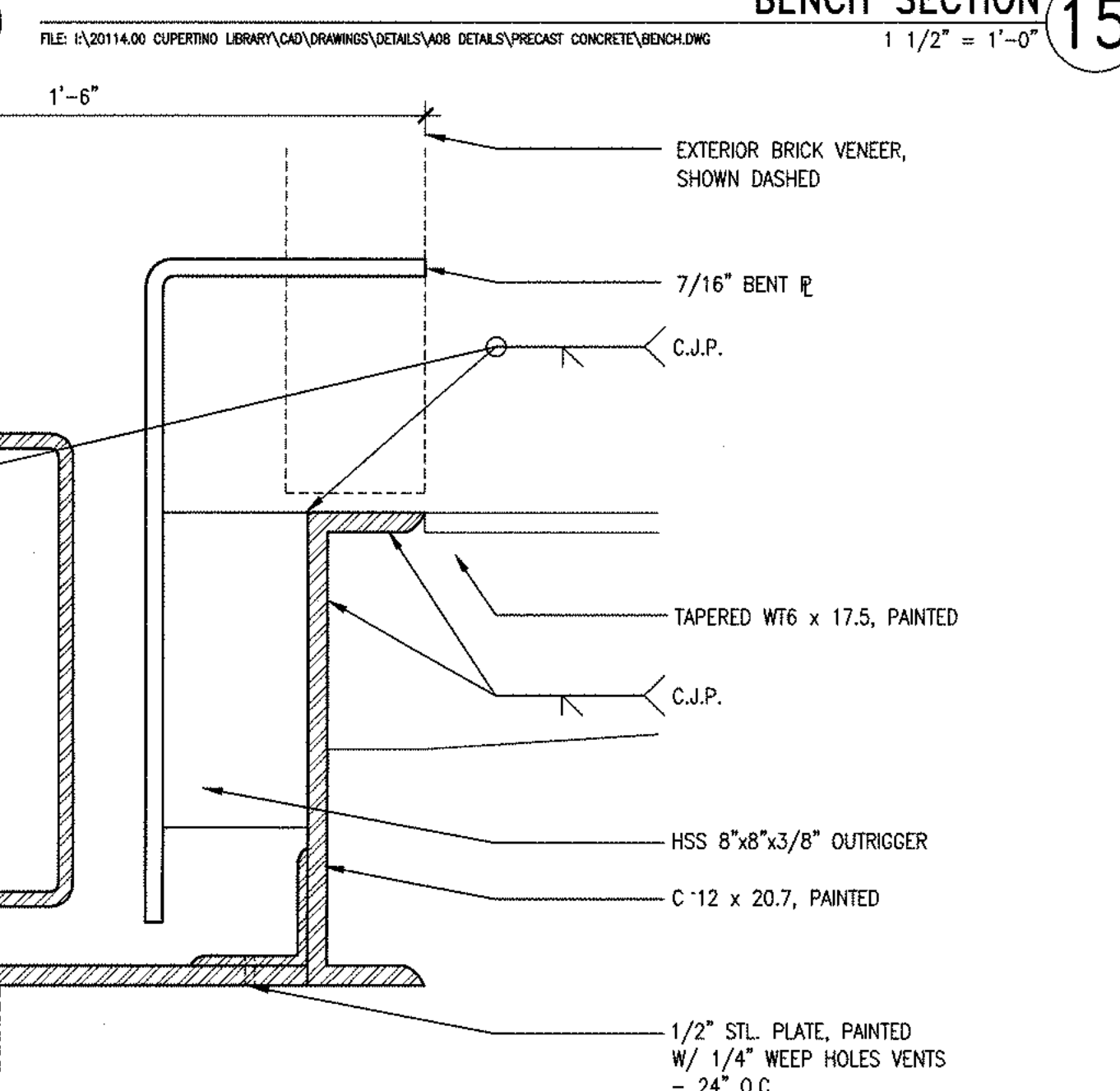
11 JAMB AT MASONRY OPENING 3" = 1'-0"



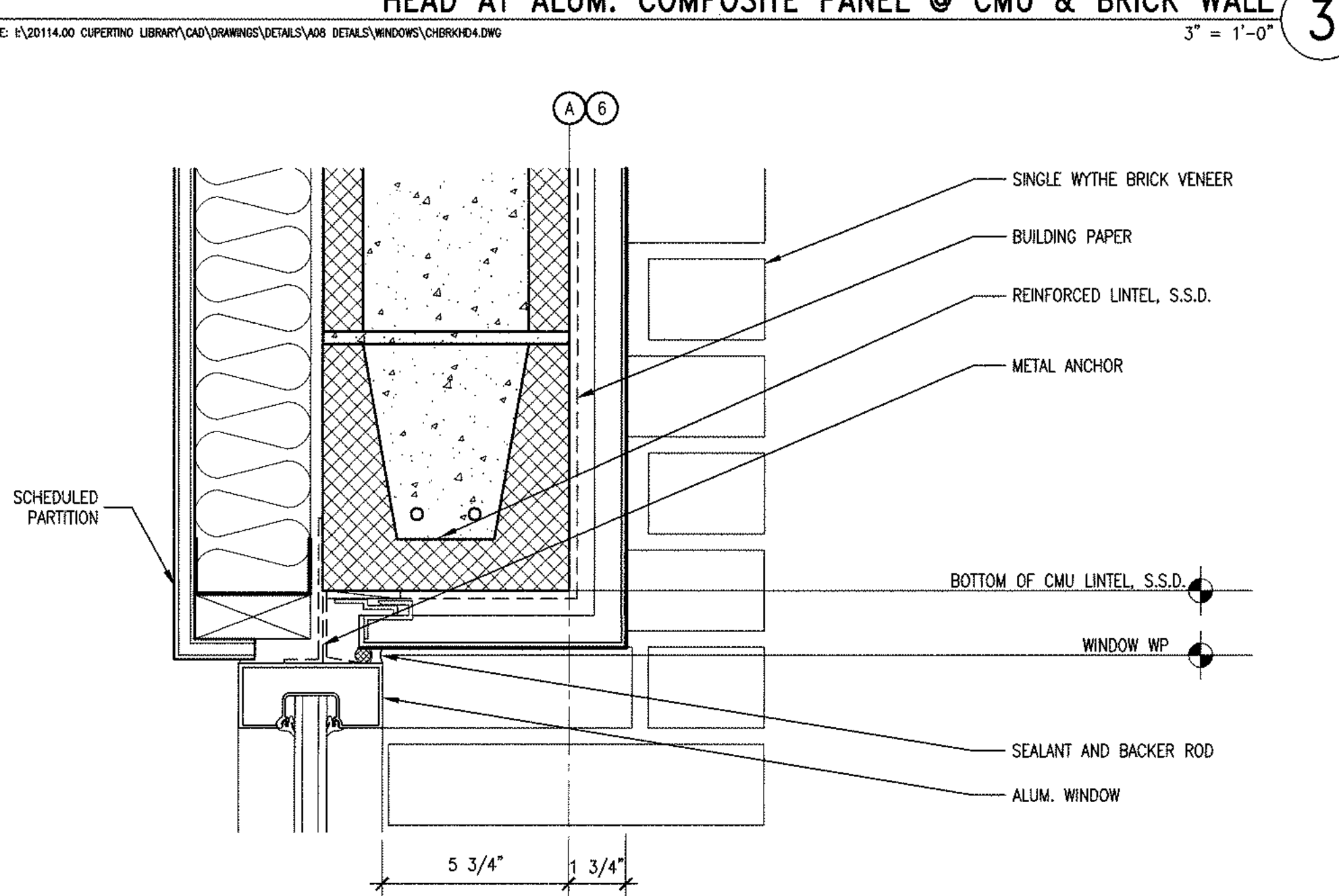
3 HEAD AT ALUM. COMPOSITE PANEL @ CMU & BRICK WALL 3" = 1'-0"



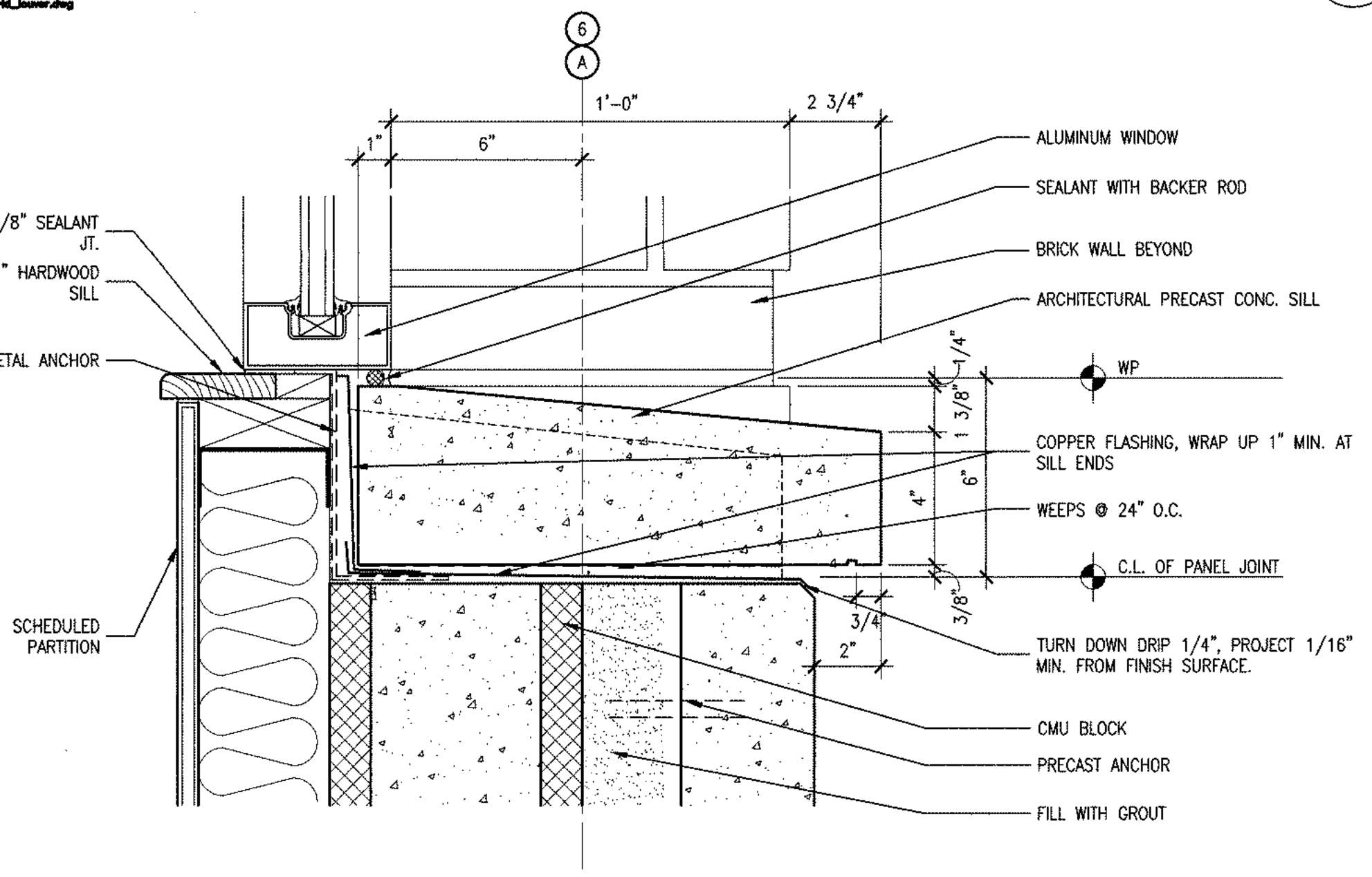
14 STEEL FRAMING DETAIL 3" = 1'-0"



13 PLASTER AT STL. CHANNEL 3" = 1'-0"



10 HEAD AT COMPOSITE METAL PANEL @ CMU & BRICK WALL 3" = 1'-0"



9 SILL AT CMU & BRICK WALL 3" = 1'-0"

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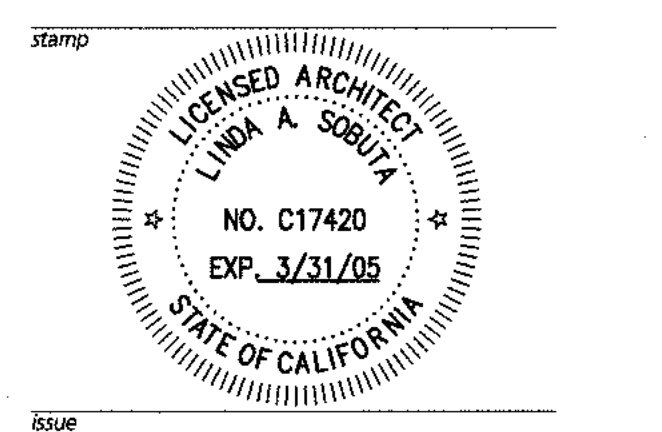
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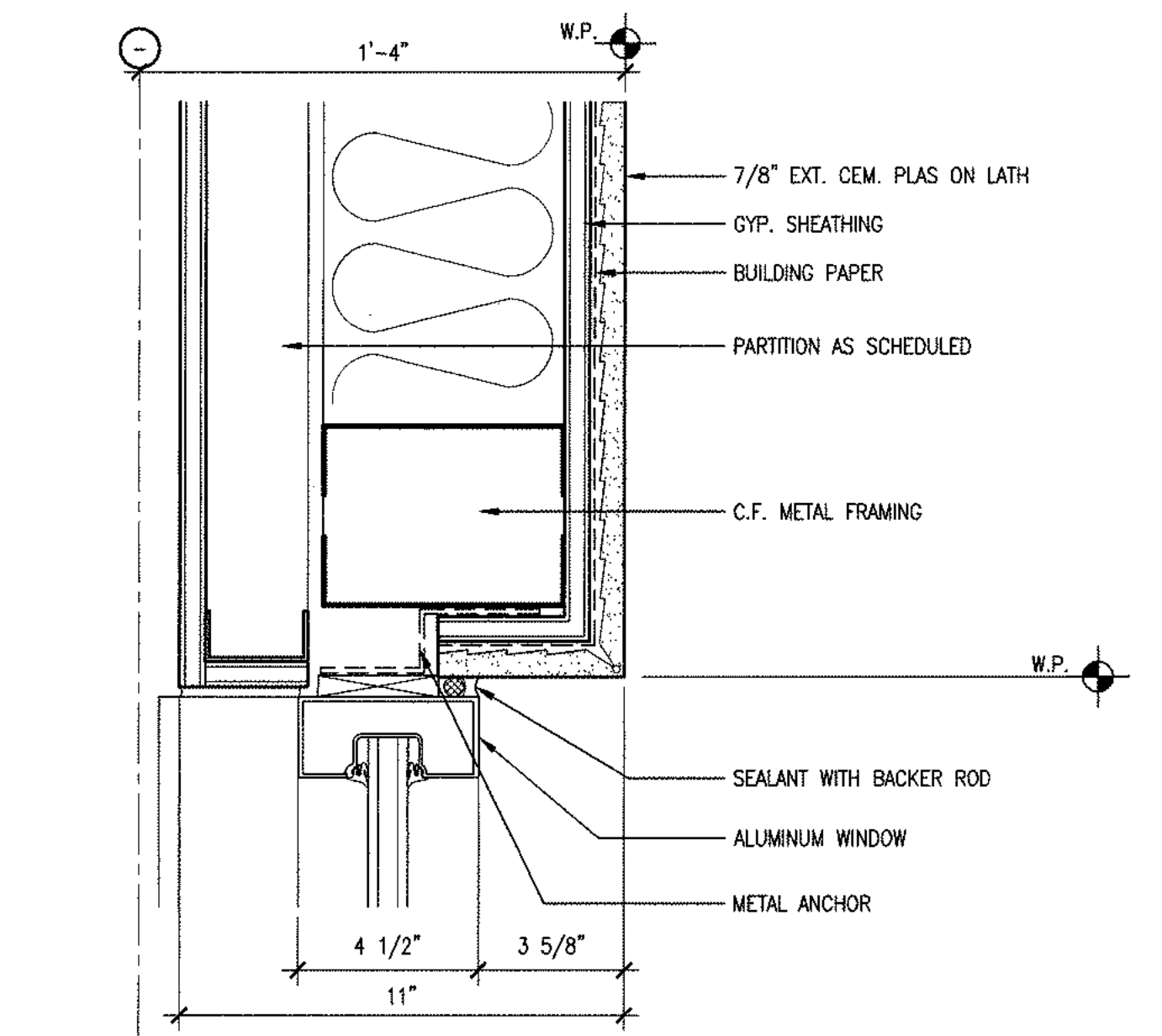
BID SET

WINDOW
 DETAILS

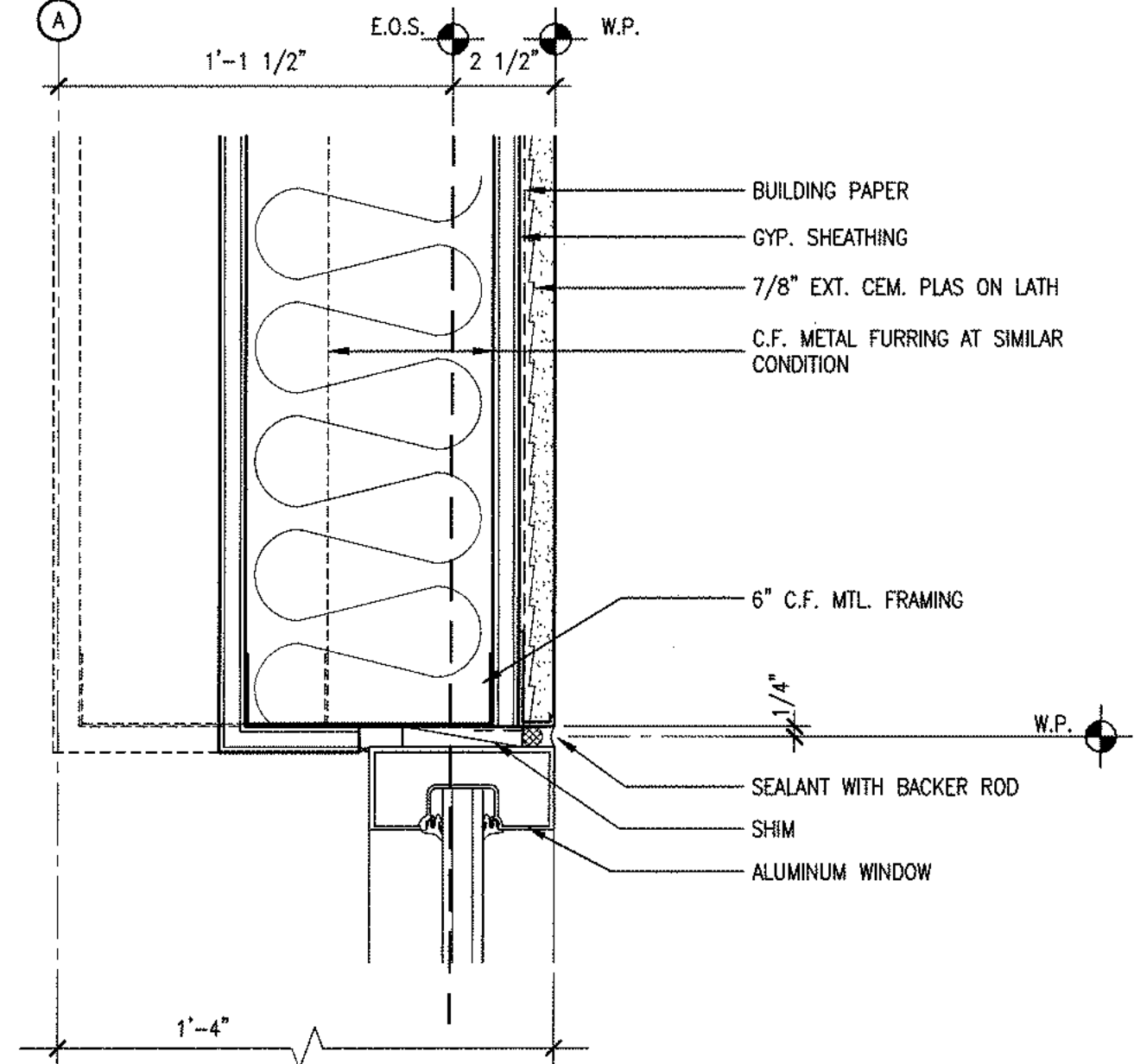
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 date: 2003.04.18
 drawn by: LR project number: 20114.00
 sheet number: LR

A9.08

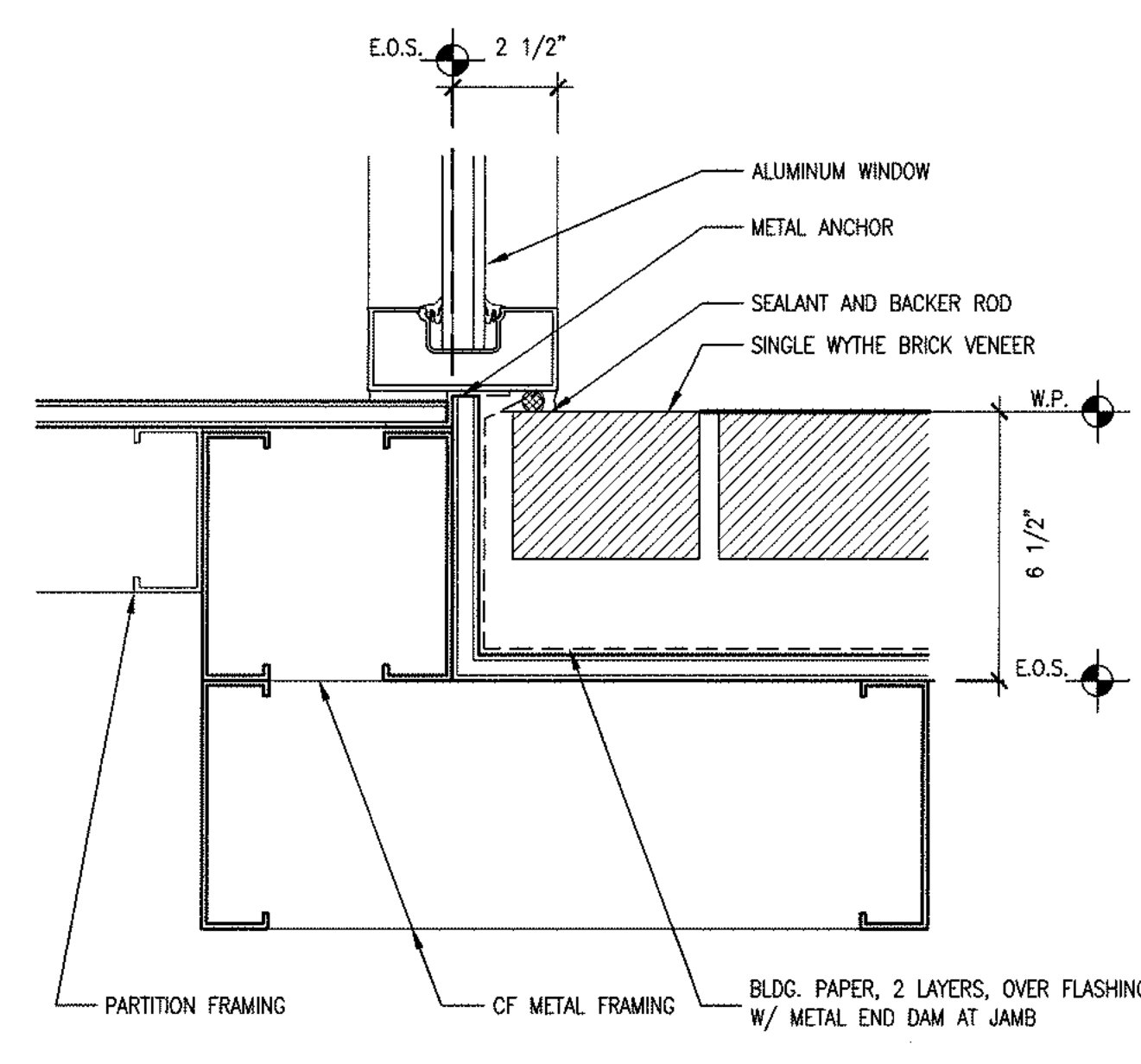
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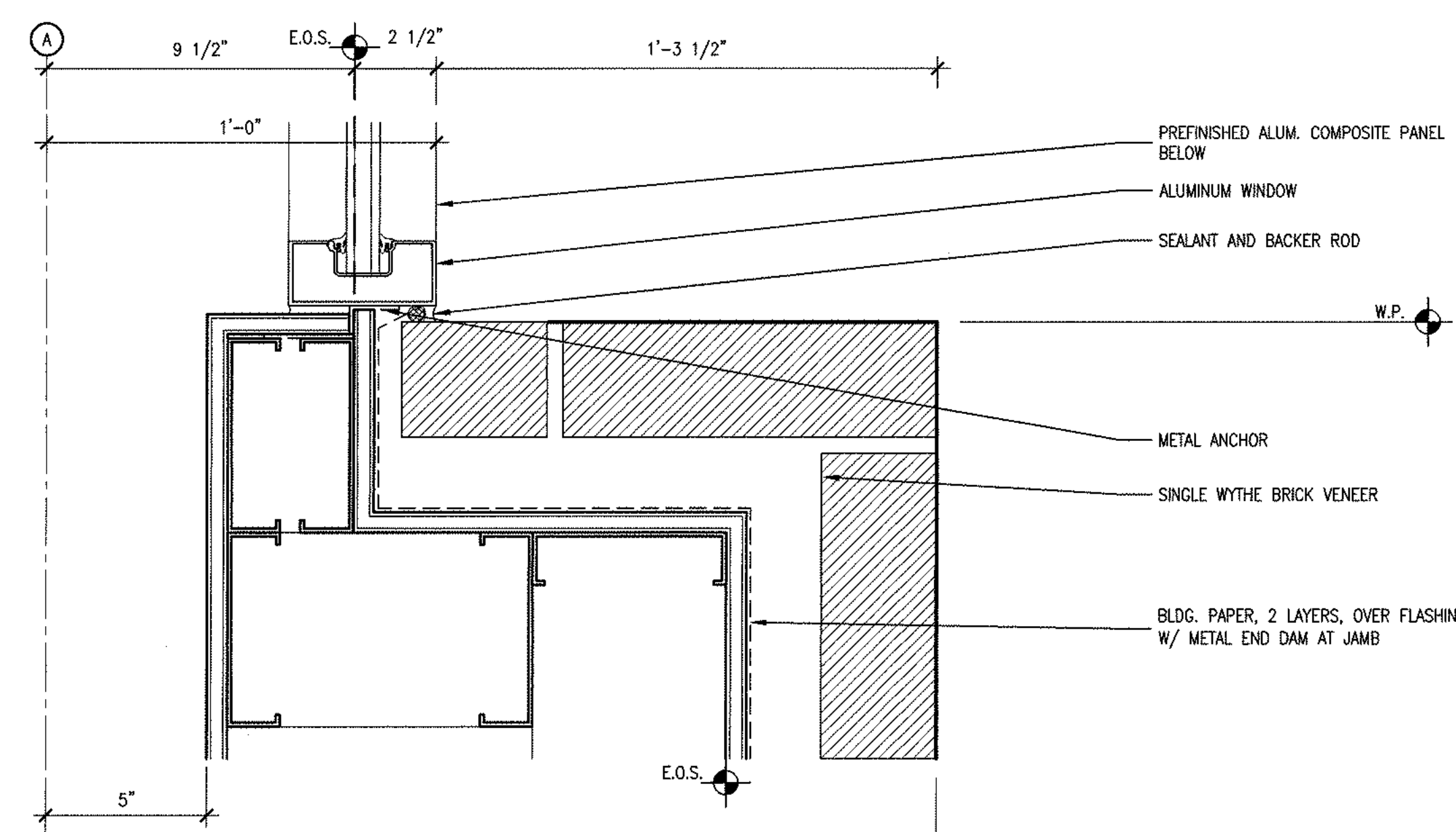
JAMB AT ALUMINUM WINDOW WALL 20
3" = 1'-0"



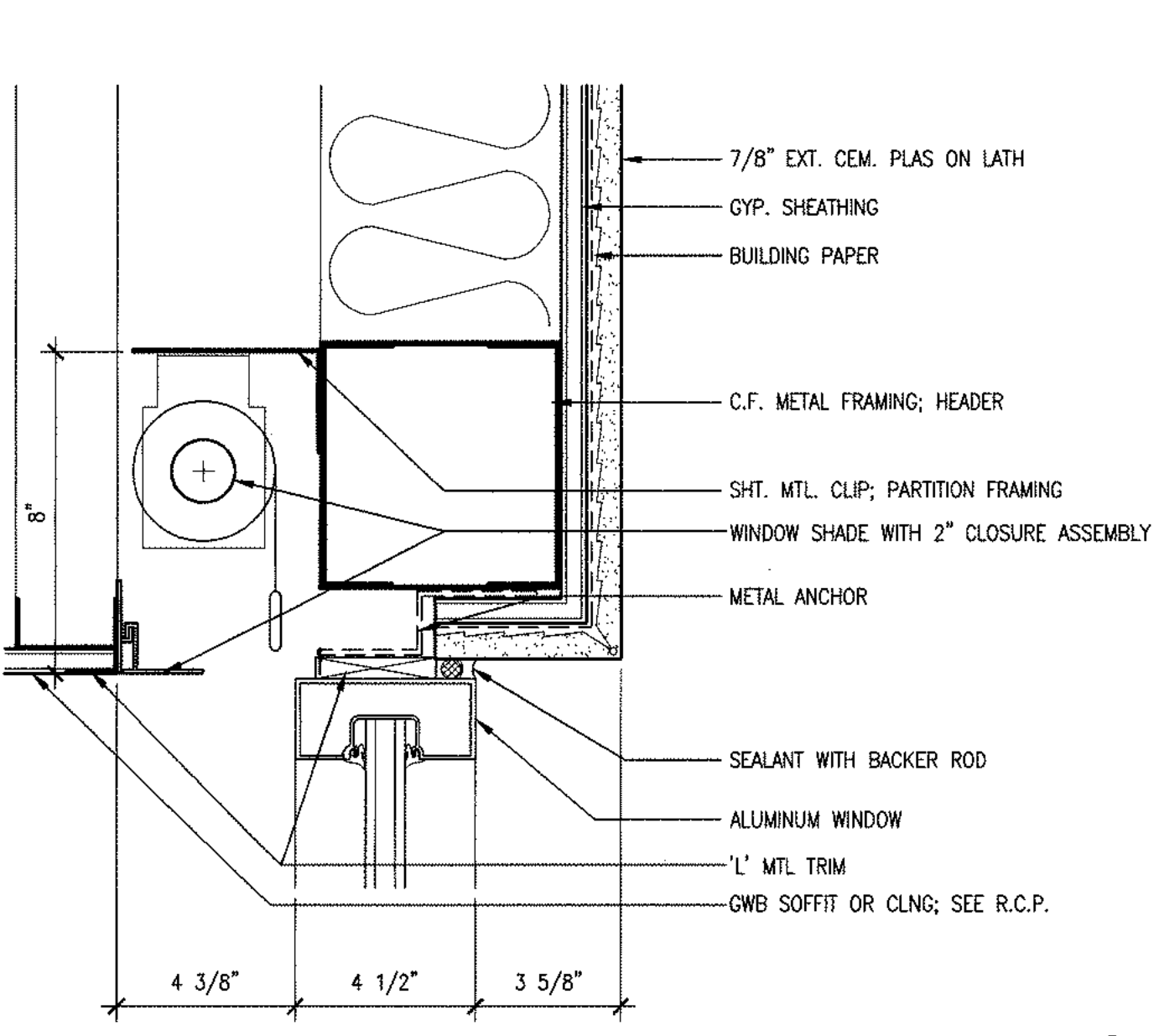
JAMB AT ALUMINUM WINDOW WALL 16
3" = 1'-0"



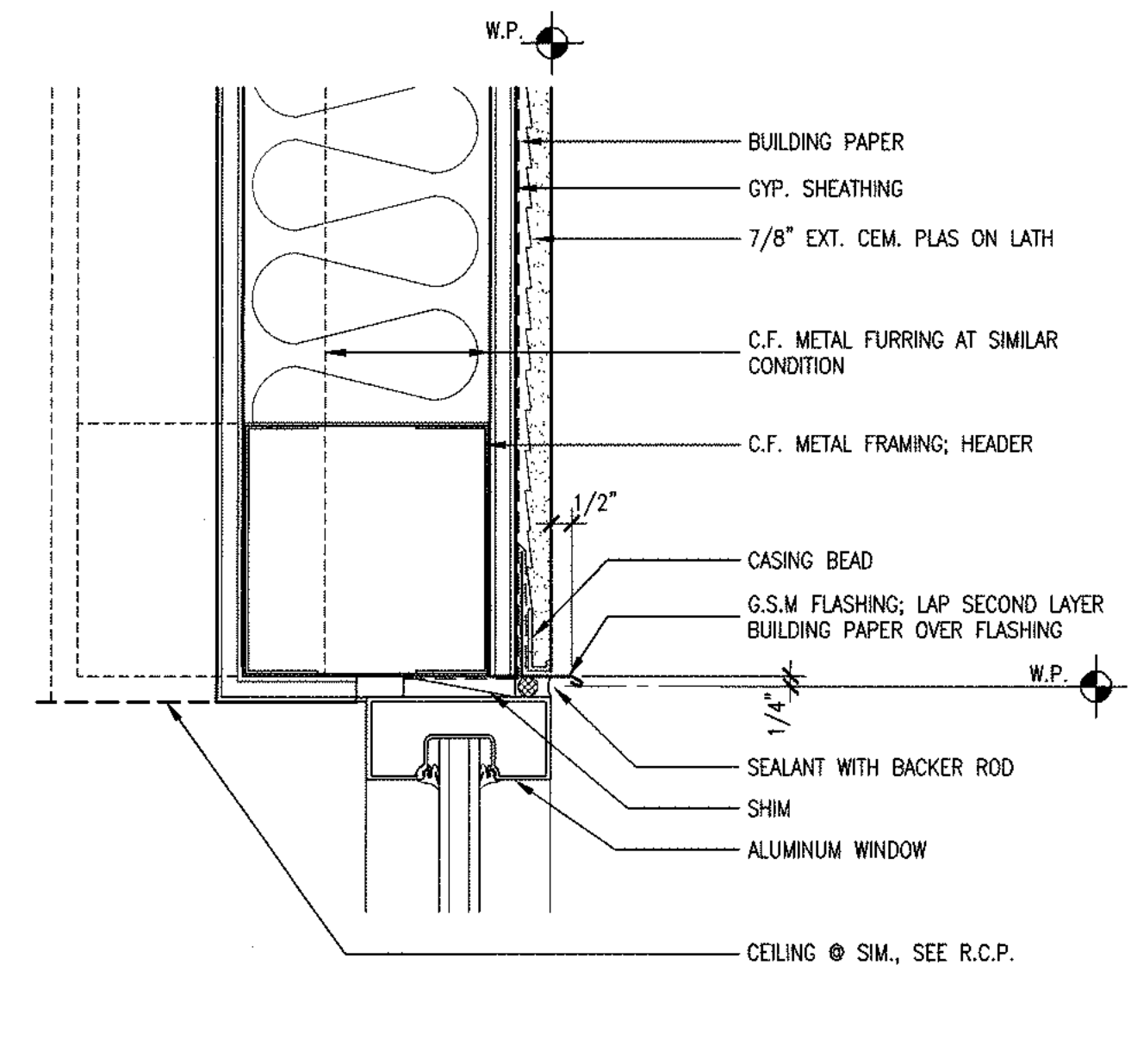
JAMB AT MASONRY OPENING 12
3" = 1'-0"



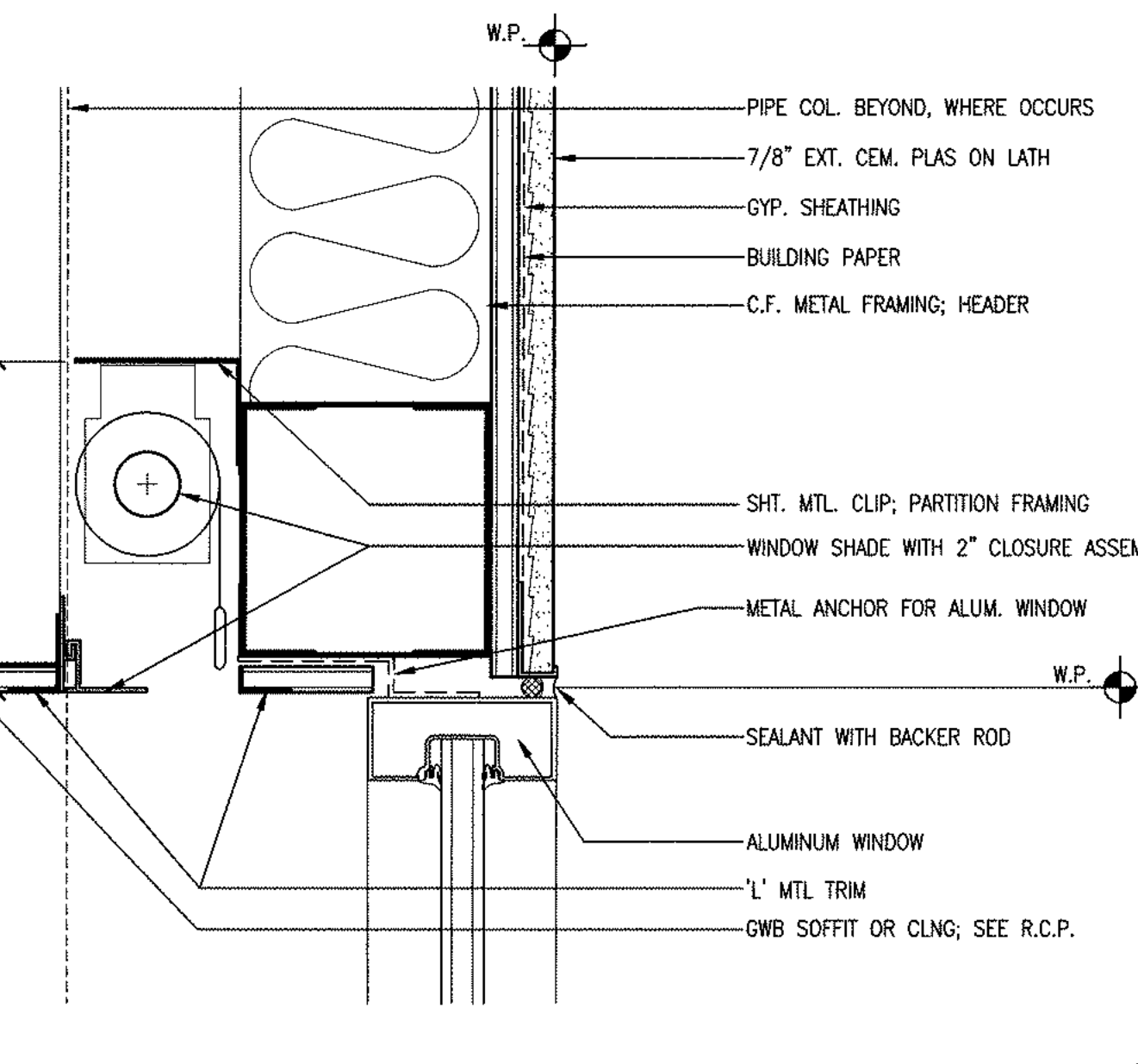
JAMB AT MASONRY OPENING 4
3" = 1'-0"



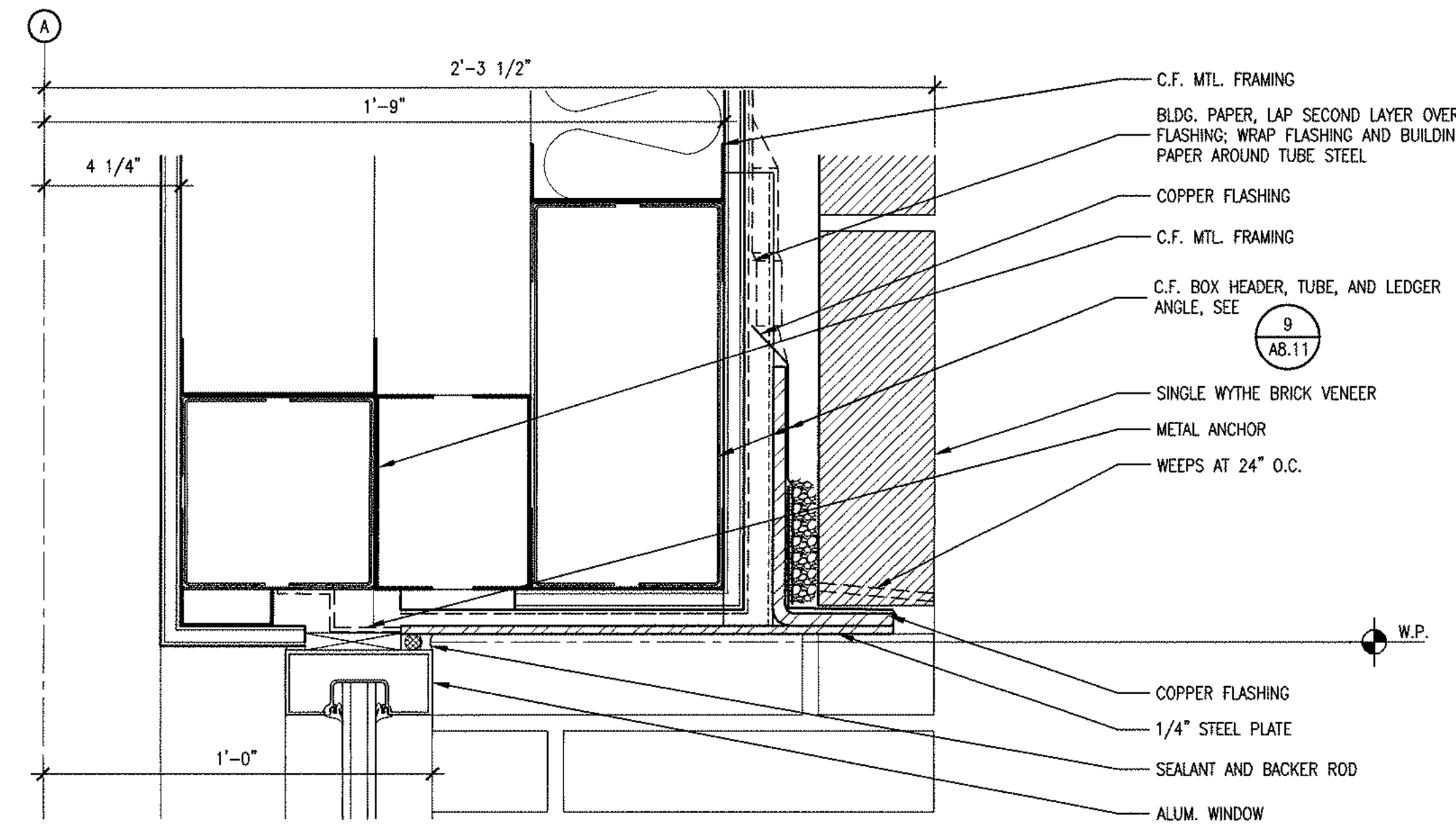
HEAD AT ALUMINUM WINDOW WALL 19
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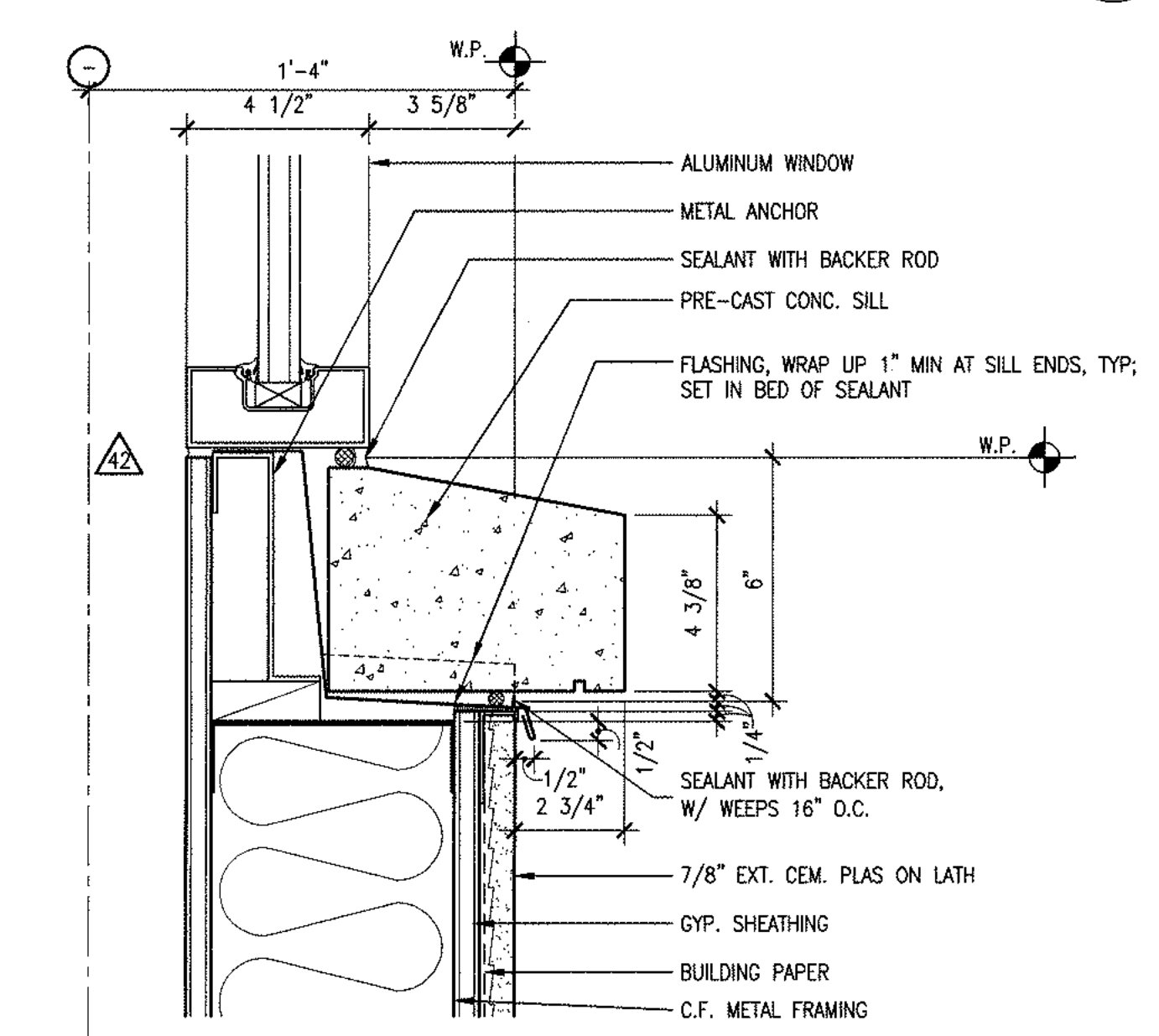
HEAD AT ALUMINUM WINDOW WALL 15
3" = 1'-0"



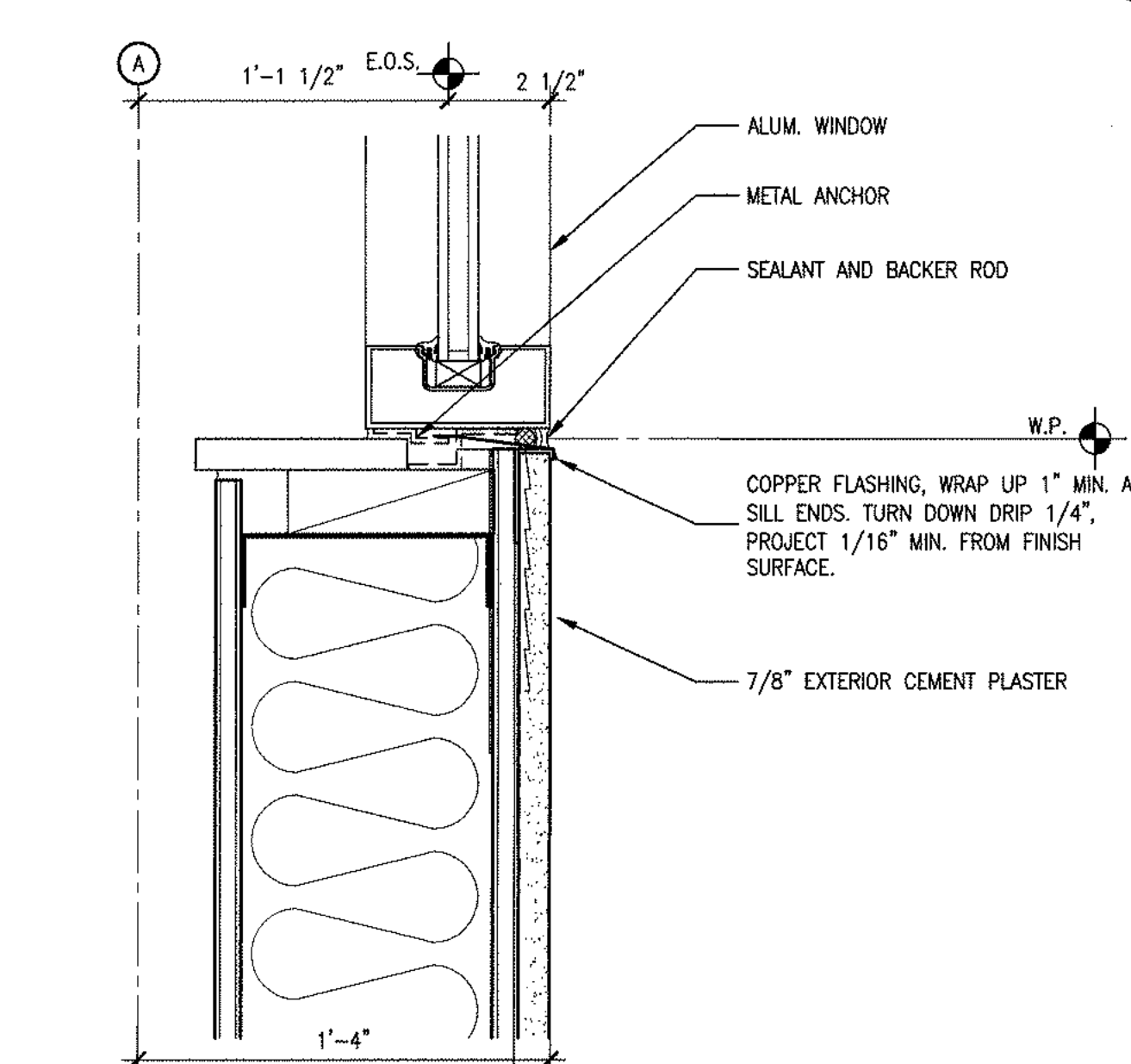
HEAD AT ALUMINUM WINDOW WALL 11
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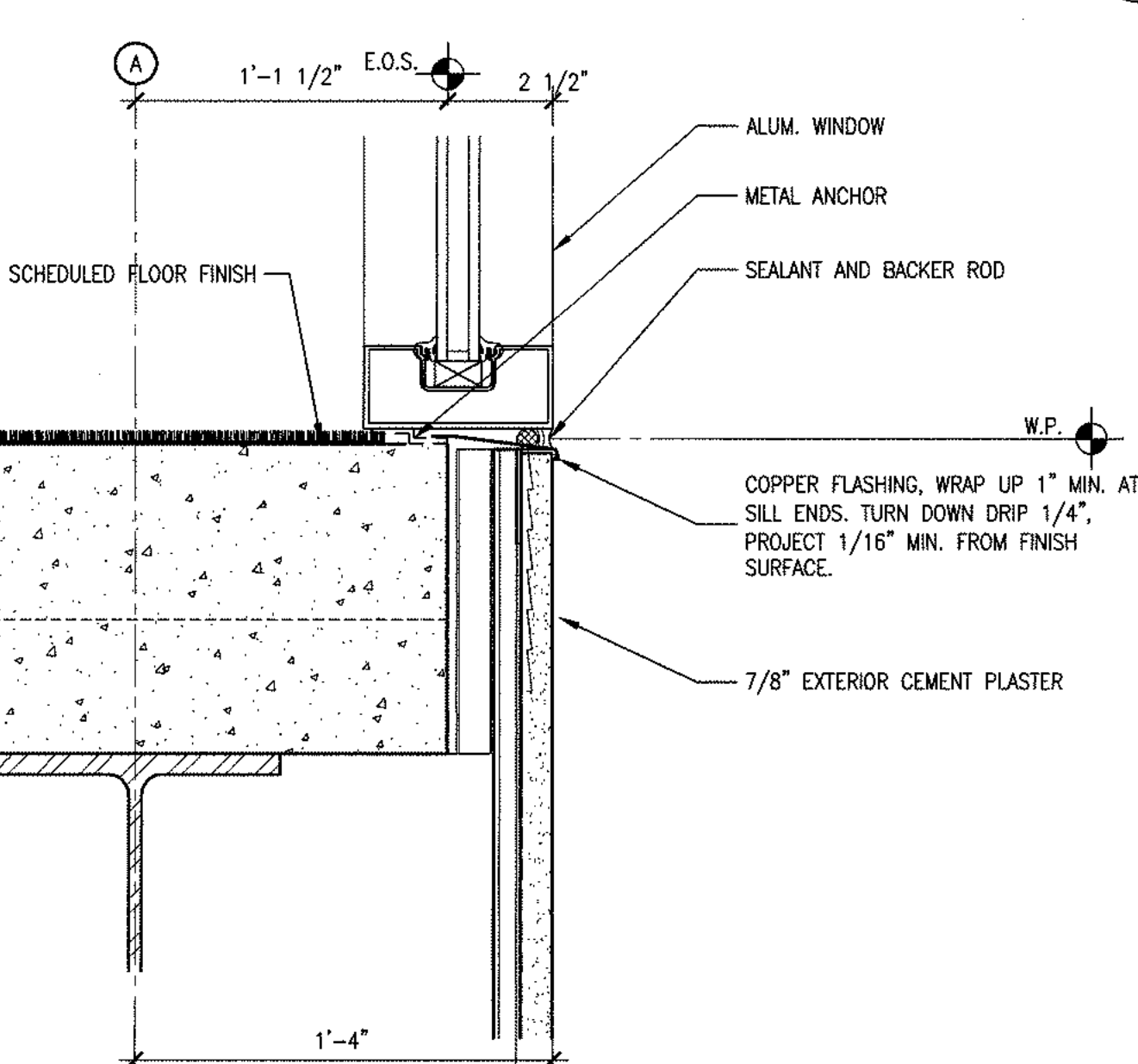
HEAD AT MASONRY OPENING 3
3" = 1'-0"



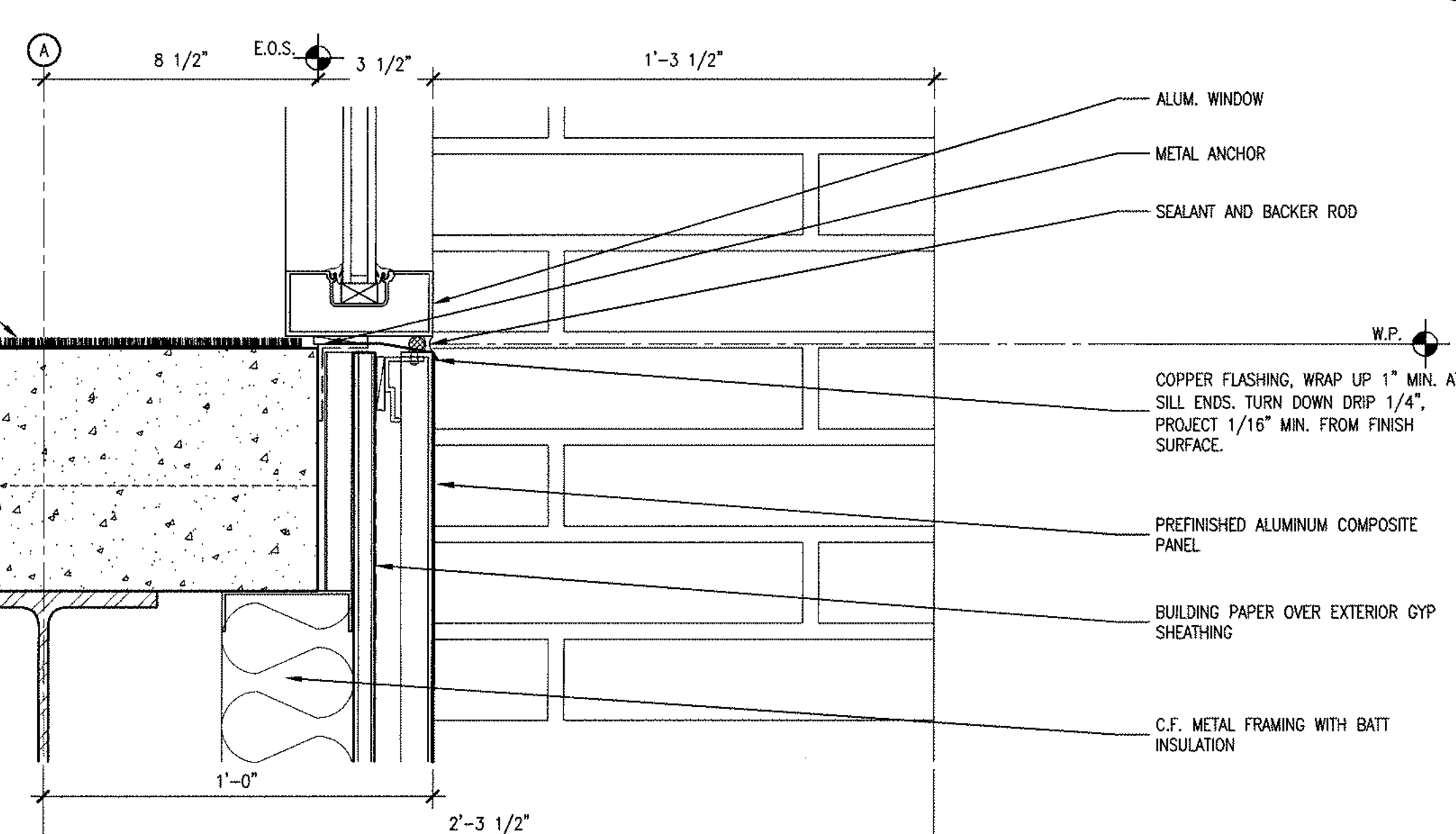
SILL AT CEMENT PLASTER WALL 18
3" = 1'-0"



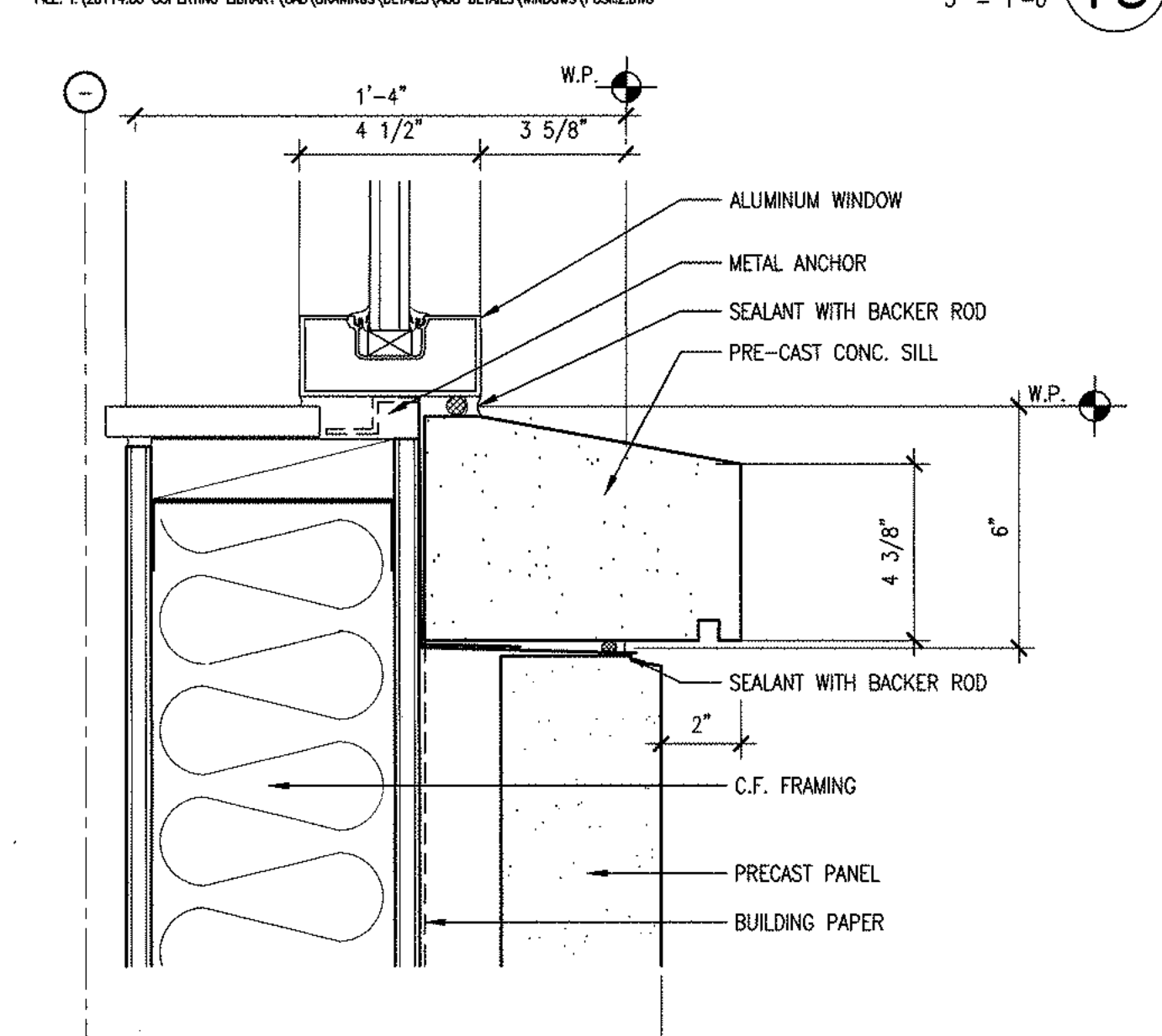
SILL AT CEMENT PLASTER 14
3" = 1'-0"



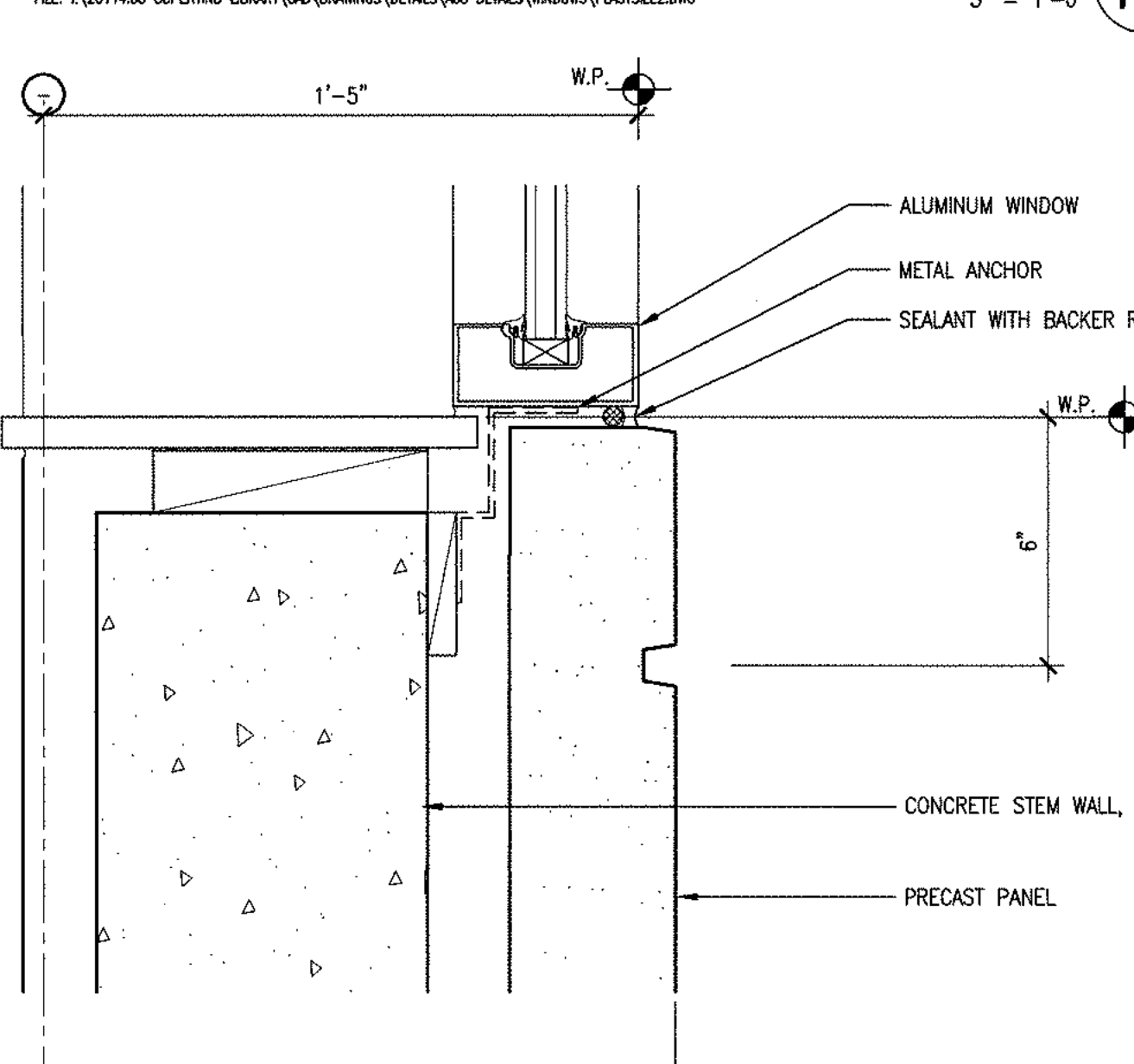
SILL AT CEMENT PLASTER 10
3" = 1'-0"



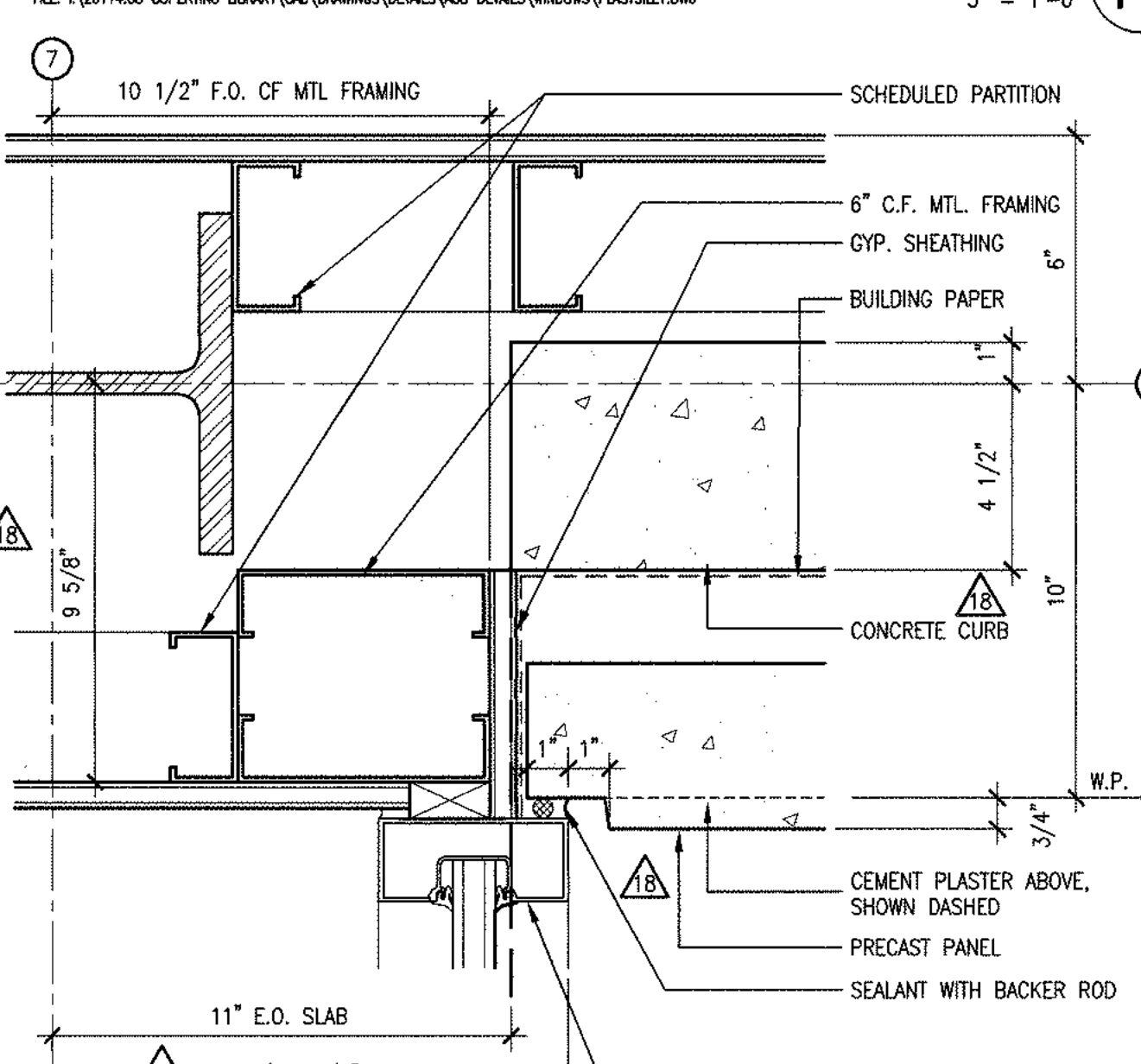
SILL AT ALUMINUM PANEL 2
3" = 1'-0"



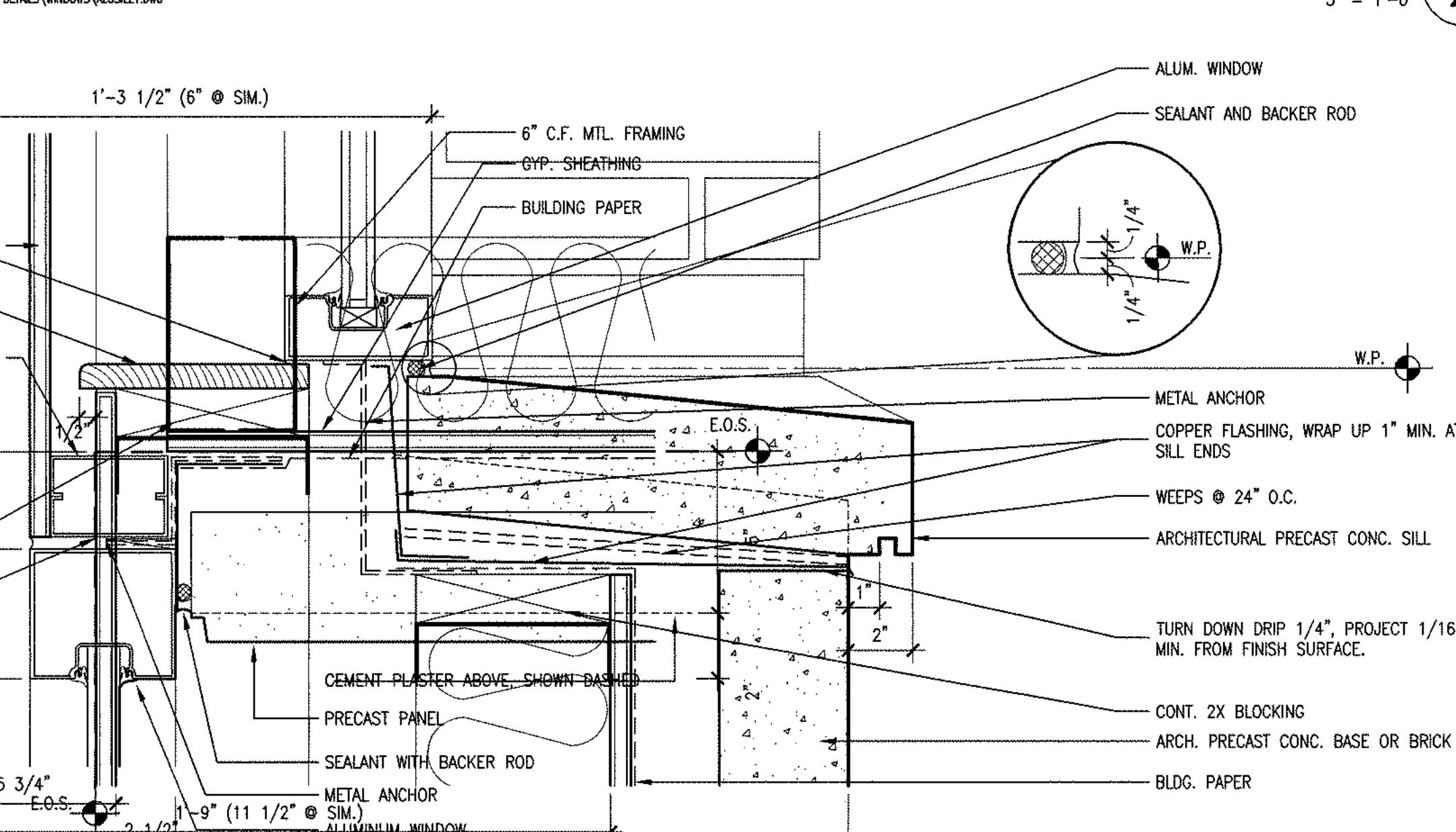
SILL AT PRECAST BASE 17
3" = 1'-0"



SILL AT PRECAST BASE 13
3" = 1'-0"



JAMB AT ALUMINUM WINDOW WALL 9
3" = 1'-0"



SILL AT MASONRY OPENING 1
3" = 1'-0"

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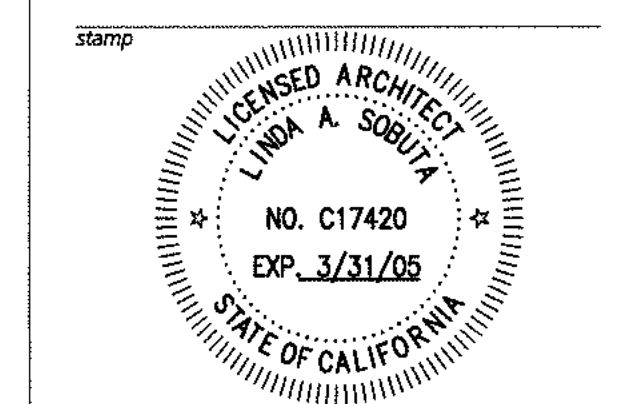
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415.865.1811 T
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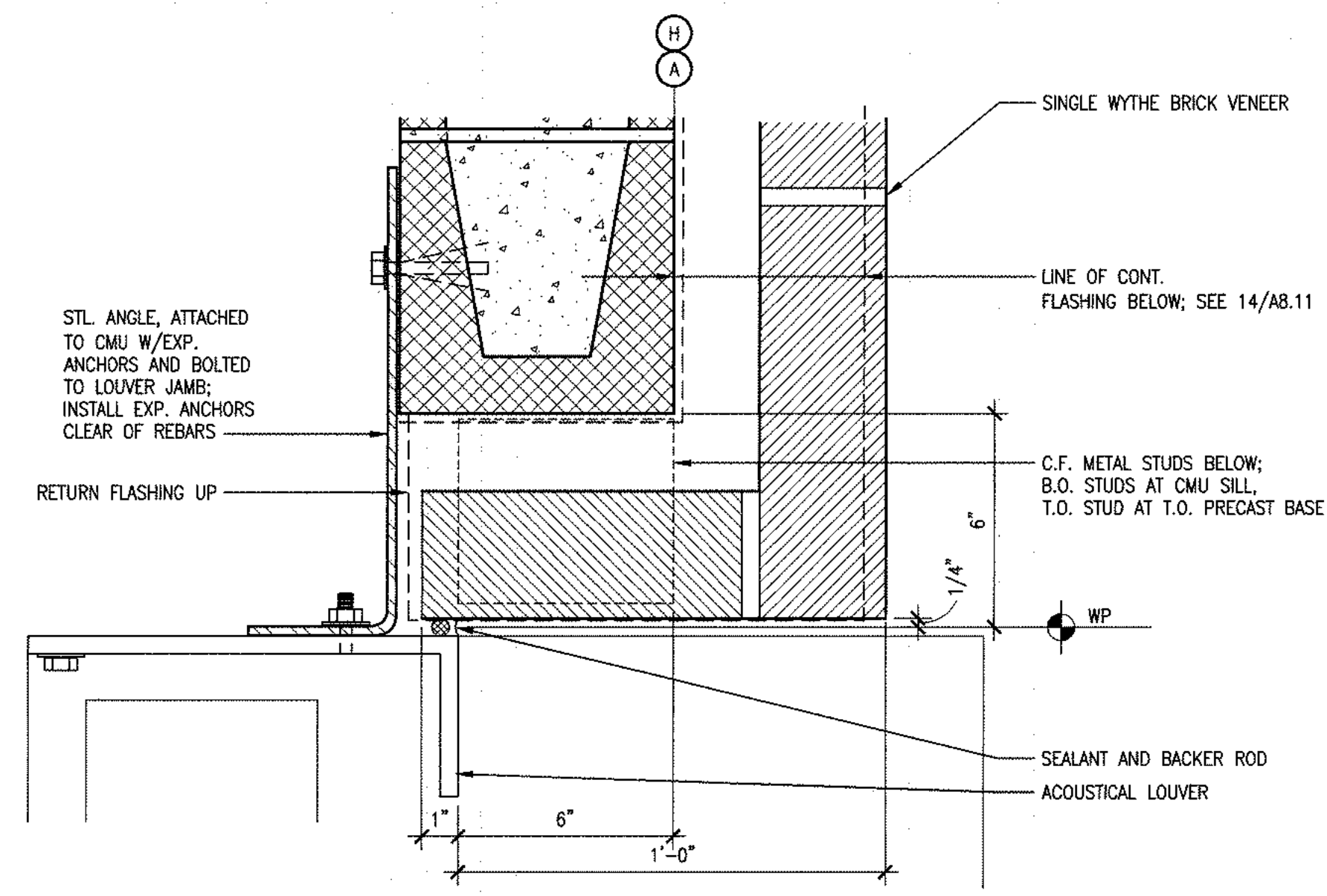
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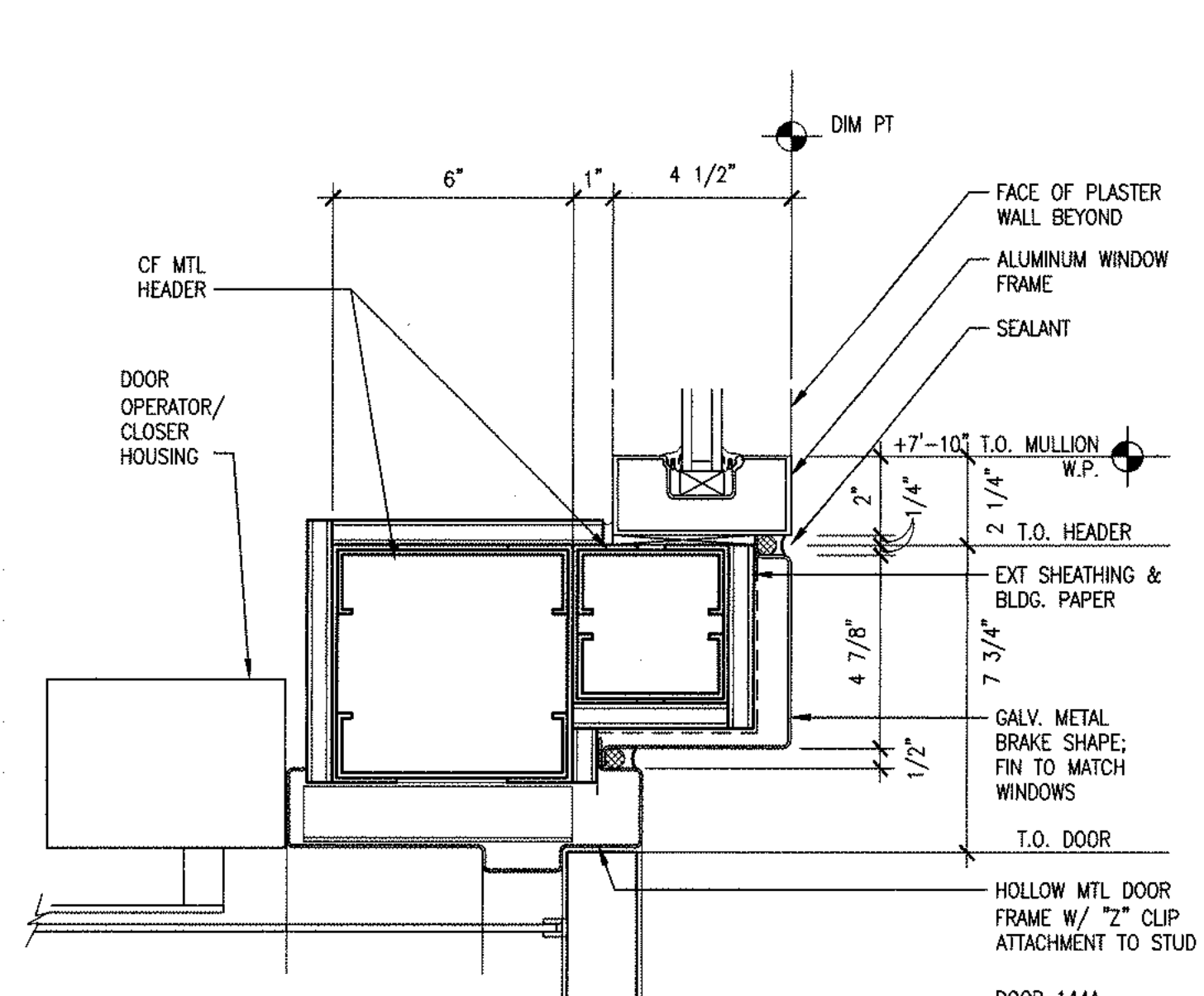
BID SET

WINDOW
DETAILS

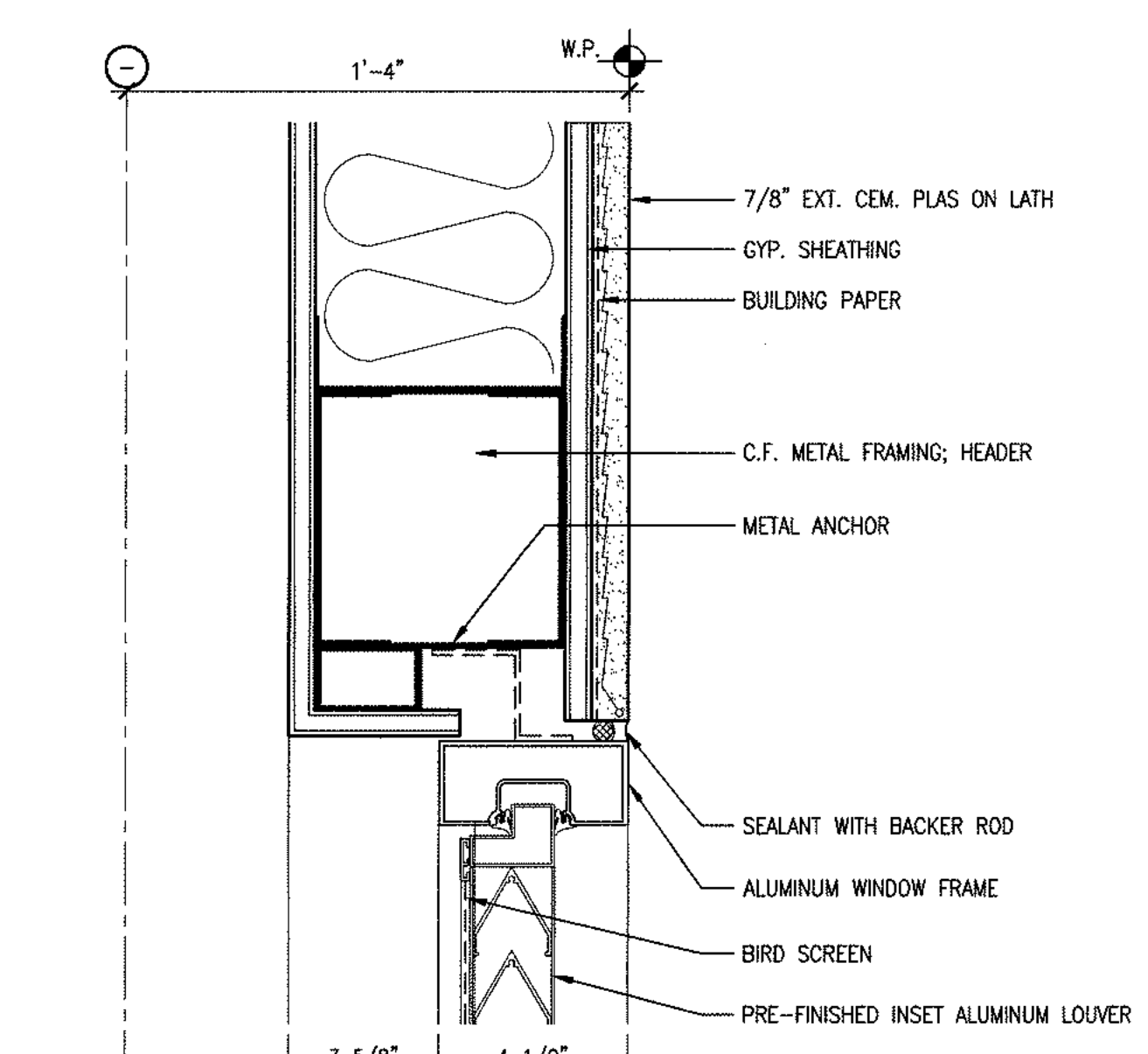
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Date: 2003.04.18
Drawn by: LR project number: 20114.00
Sheet number: A9.09



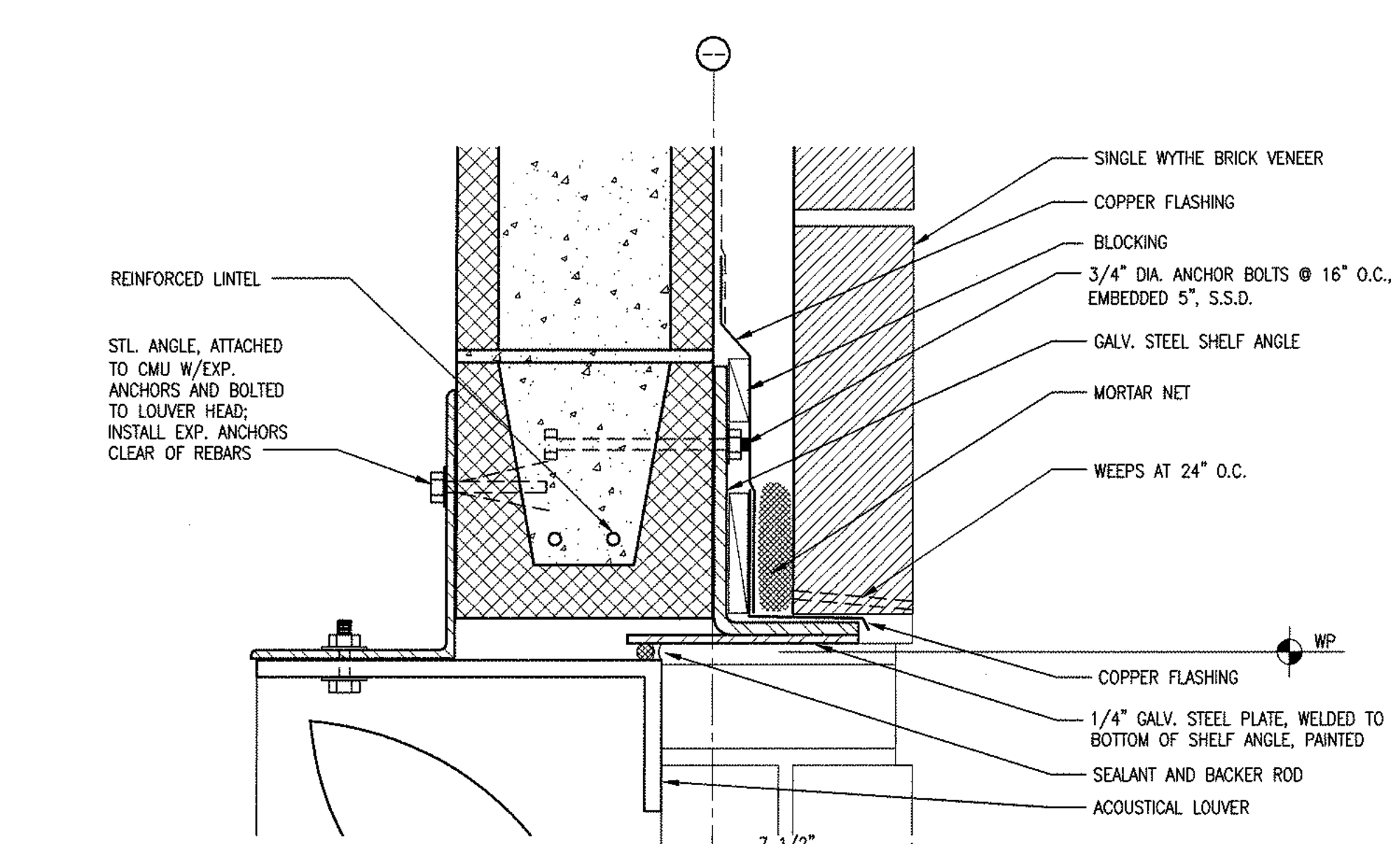
JAMB AT CMU & BRICK WALL 20
3" = 1'-0"



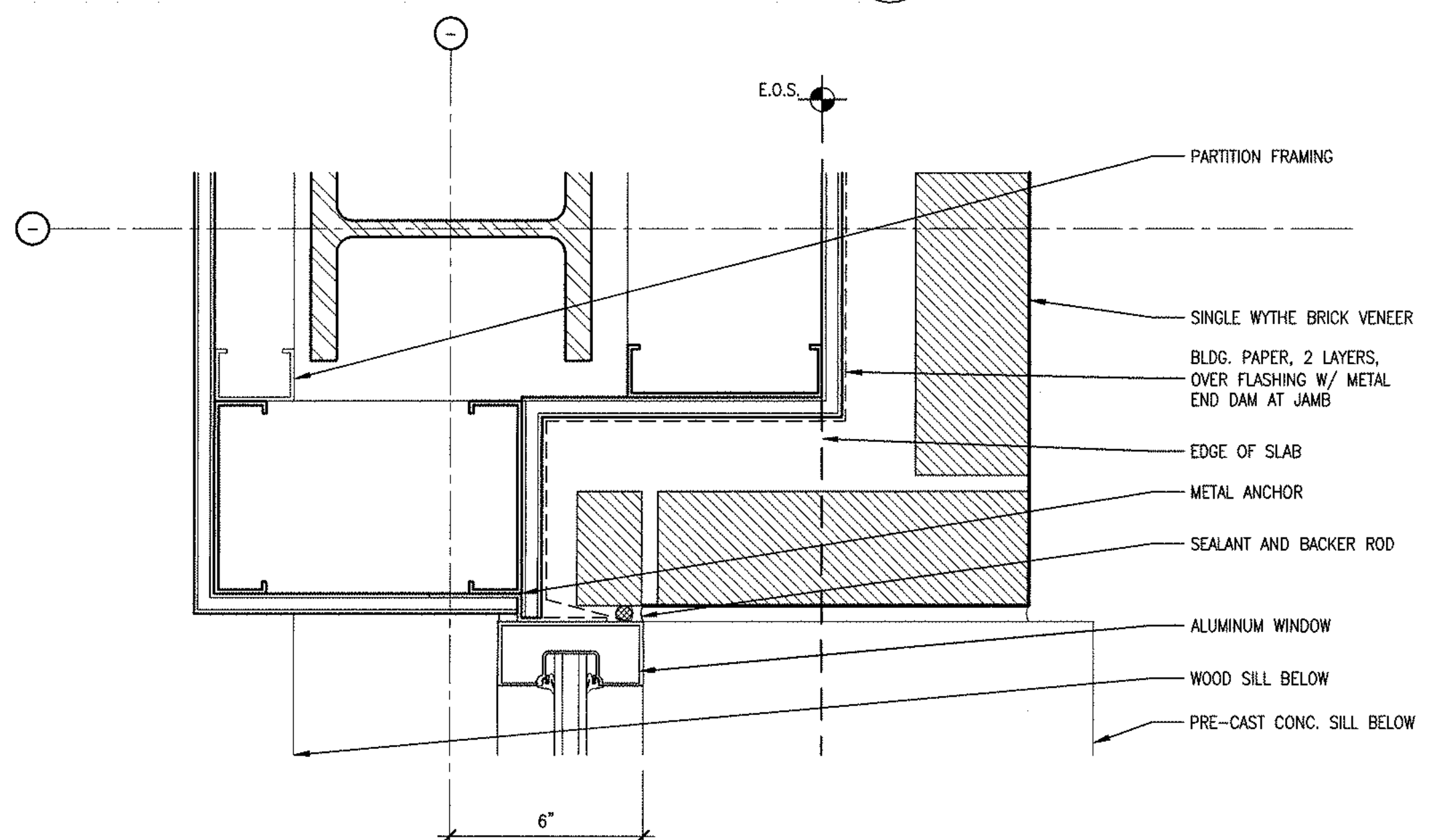
DOOR 144A HEAD @ ALUM. WINDOW SILL 16
3" = 1'-0"



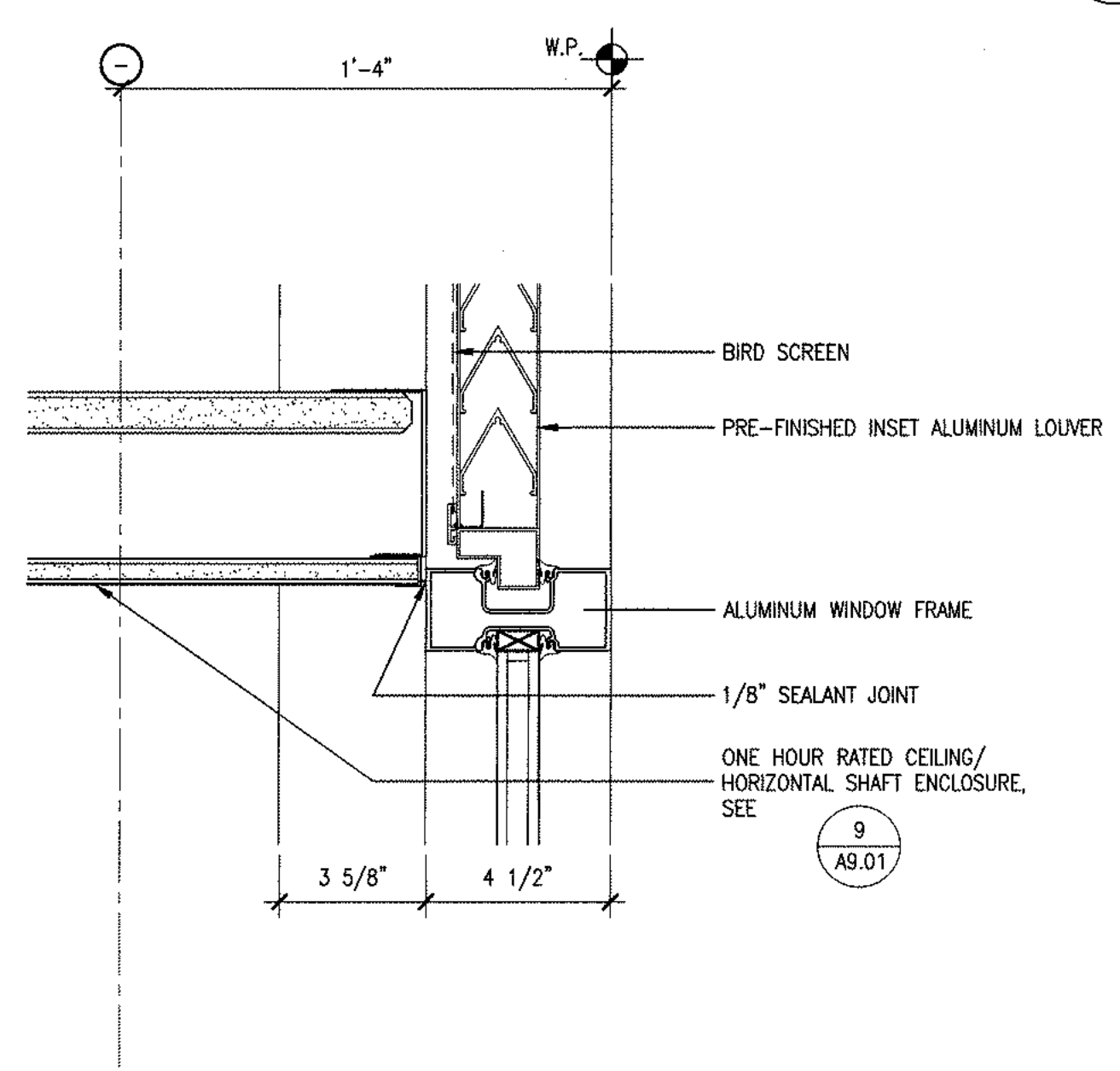
LOUVER HEAD AT ALUMINUM WINDOW WALL 12
3" = 1'-0"



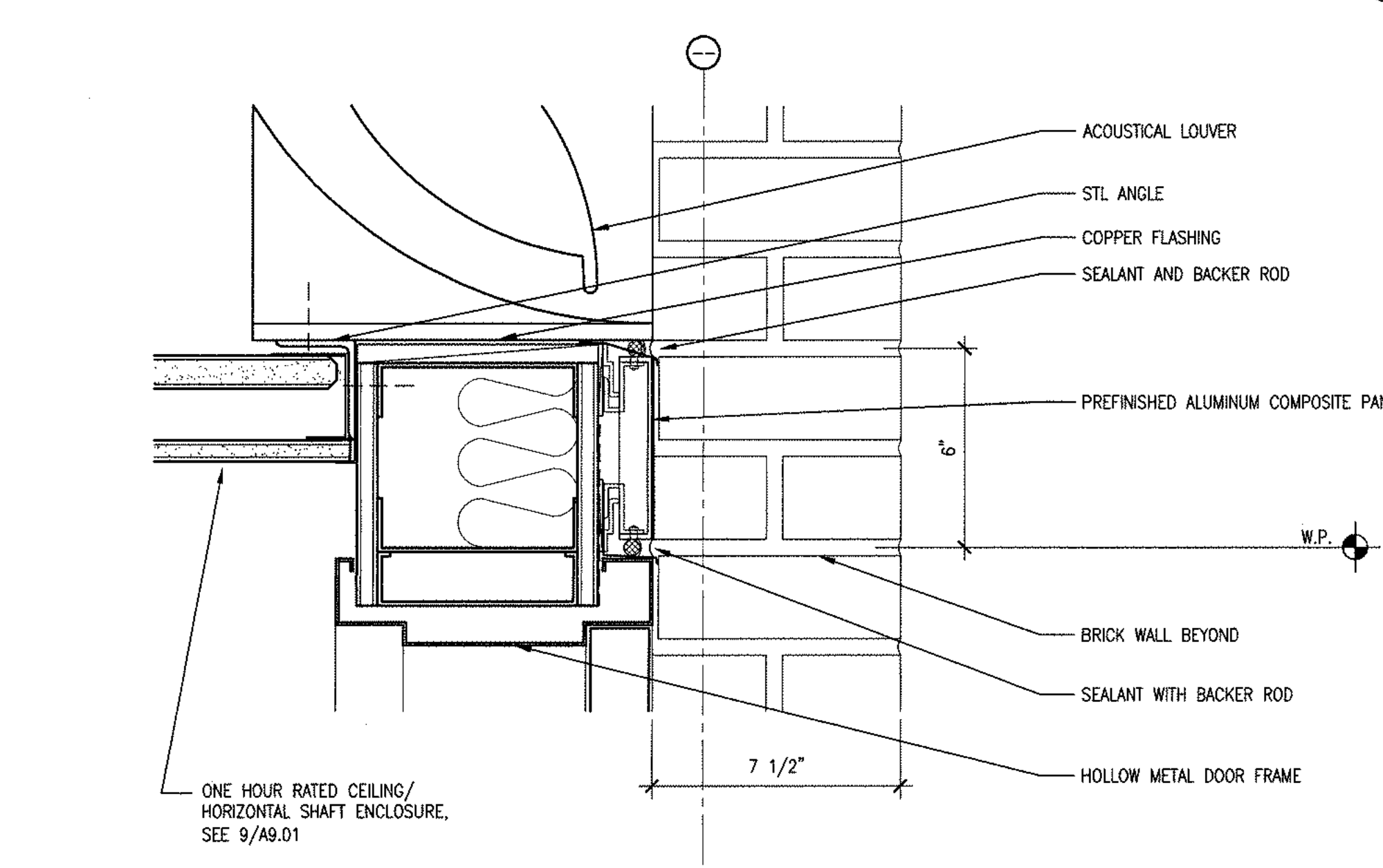
HEAD AT CMU & BRICK WALL 4
3" = 1'-0"



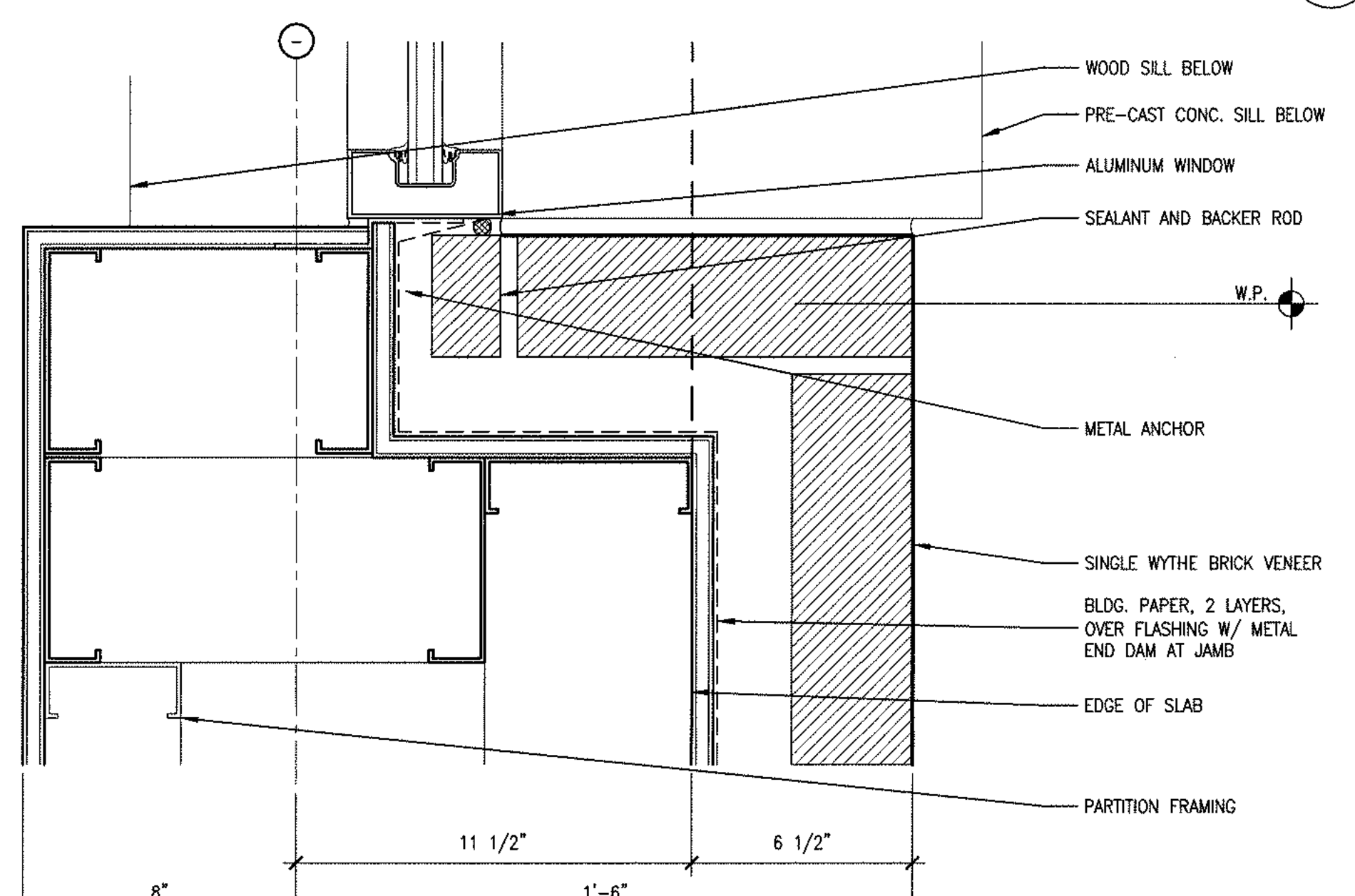
JAMB AT MASONRY OPENING 15
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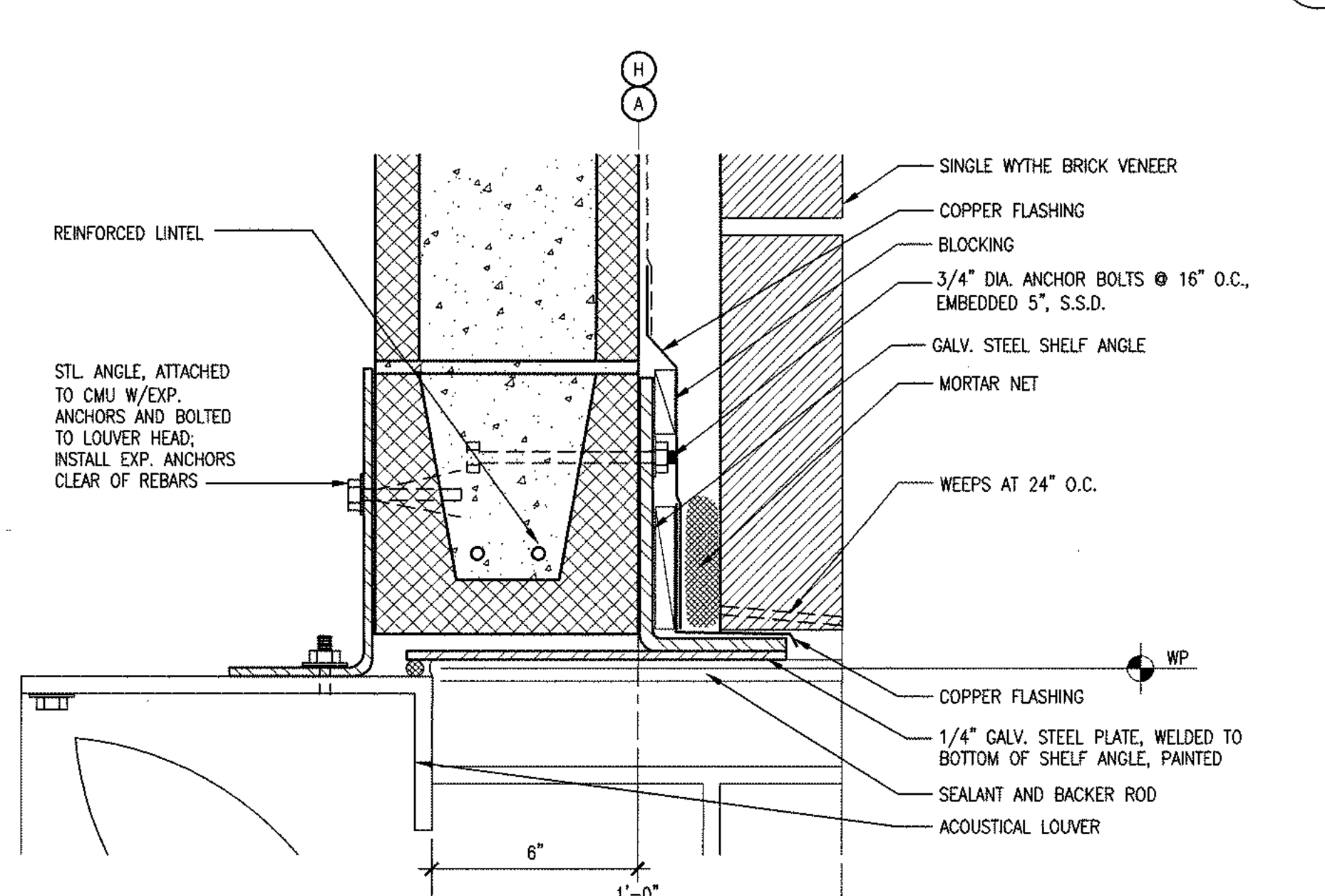
LOUVER INTERMEDIATE AT ALUMINUM WINDOW 11
3" = 1'-0"



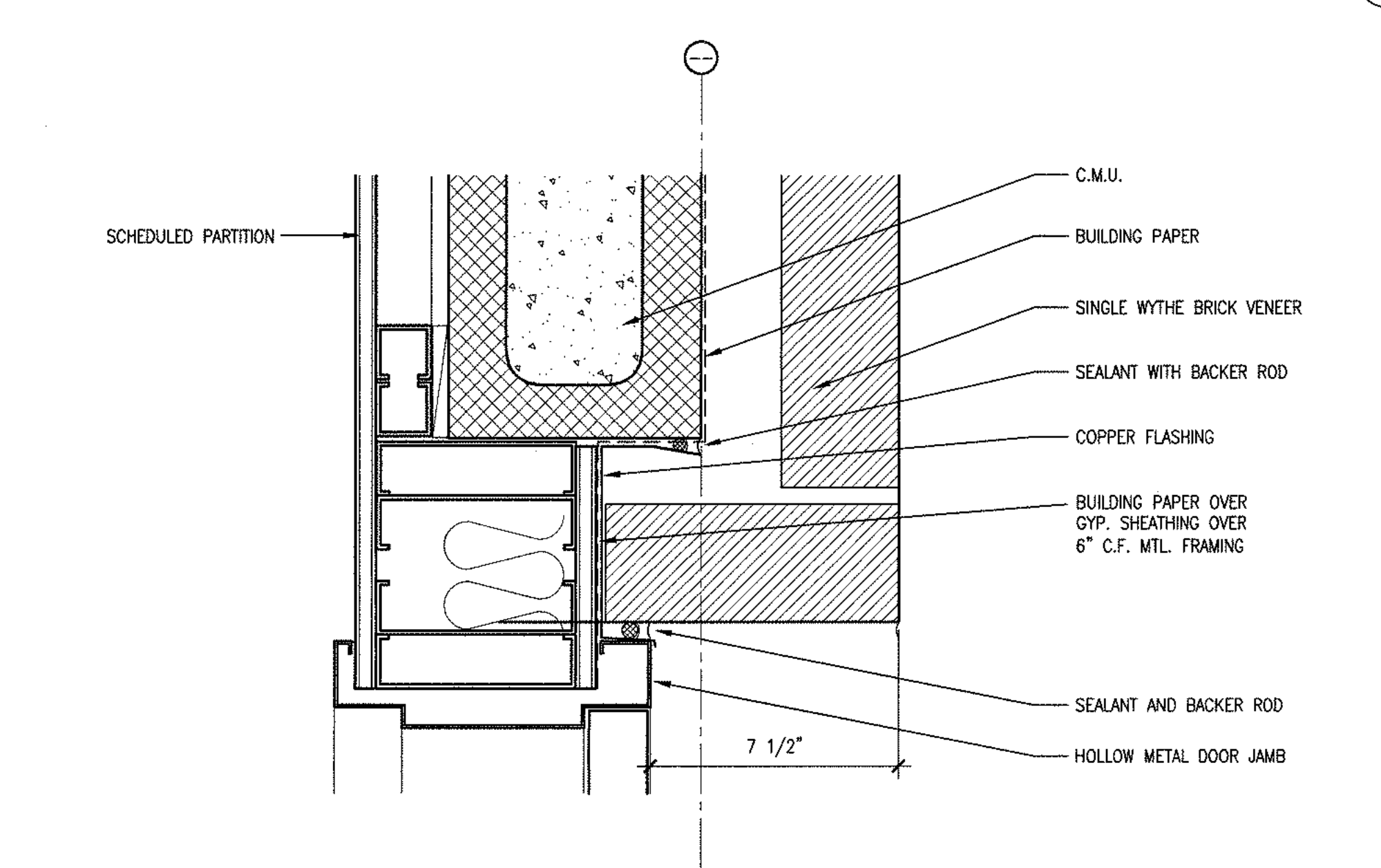
DOOR HEAD AT LOUVER TRANSOM 3
3" = 1'-0"



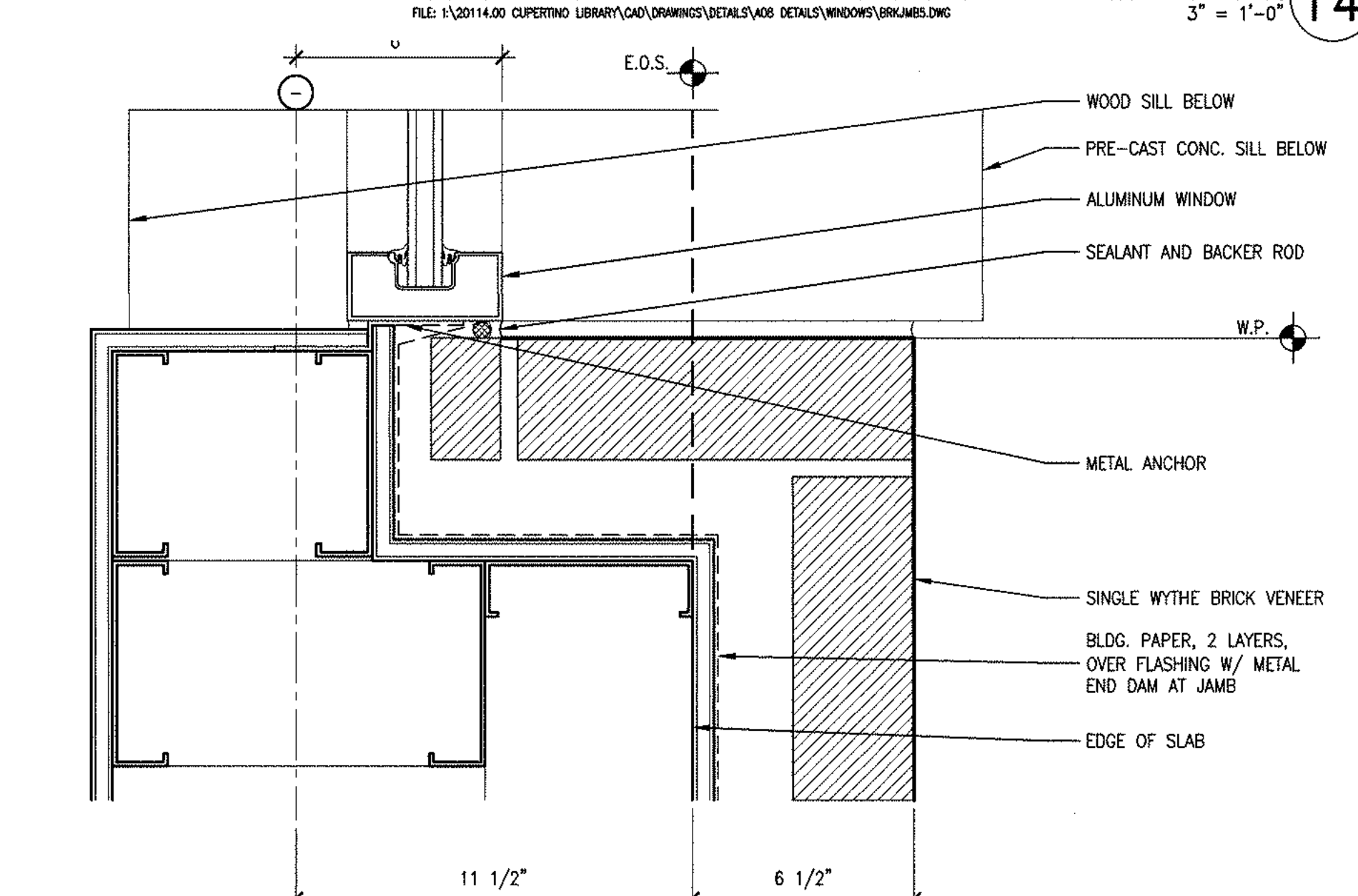
JAMB AT MASONRY OPENING 14
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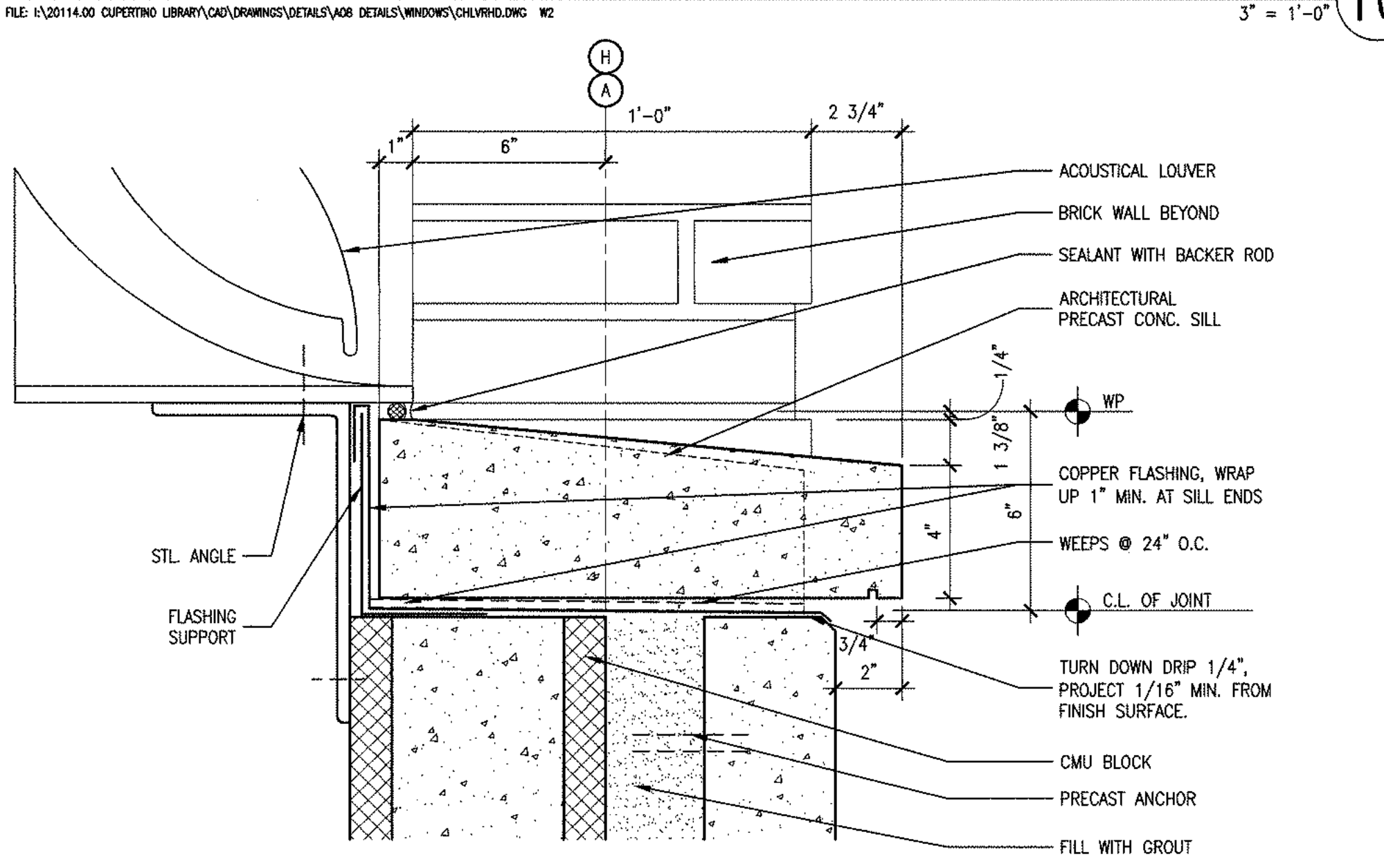
HEAD AT CMU & BRICK WALL 10
3" = 1'-0"



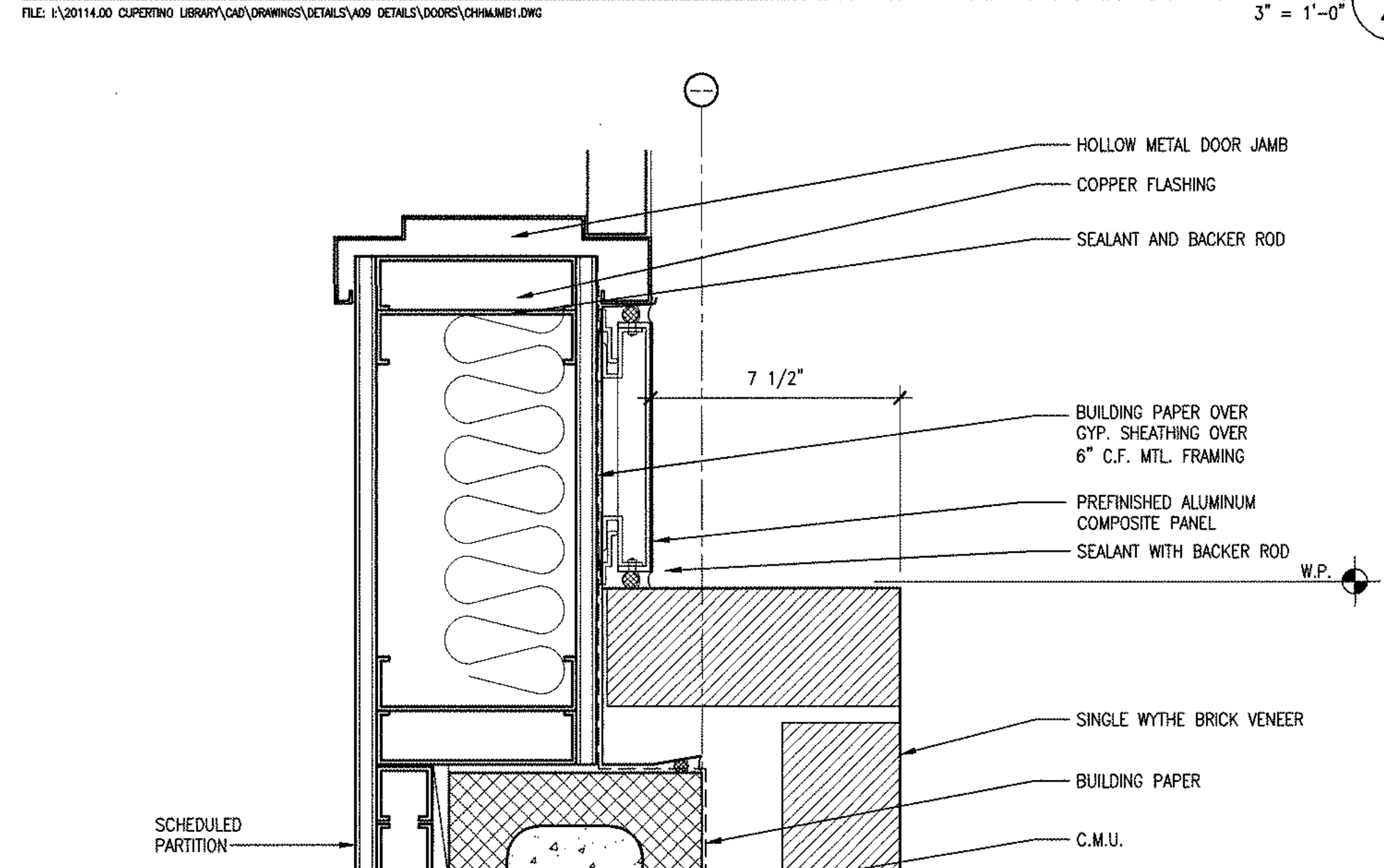
DOOR JAMB AT MASONRY OPENING 2
3" = 1'-0"



JAMB AT MASONRY OPENING 13
3" = 1'-0"



SILL AT CMU & BRICK WALL 9
3" = 1'-0"



DOOR JAMB AT MASONRY OPENING 1
3" = 1'-0"

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Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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160 Fine Street
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Suite 500
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CCD NO. 22

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EXP. 3/31/06
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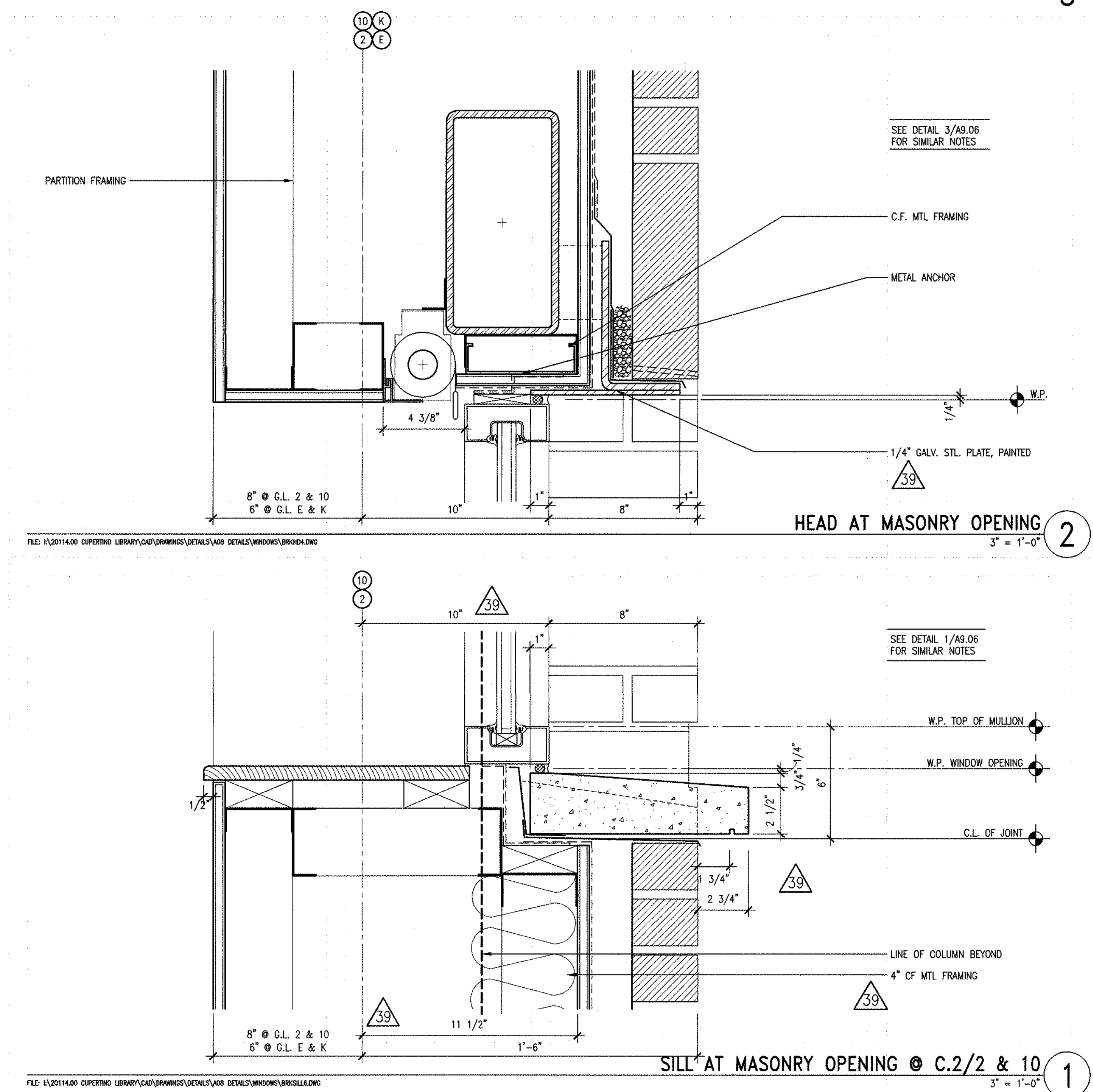
BID SET

WINDOW, DOOR
& LOUVER
DETAILS

SCALE AS NOTED
date 2003.04.18
drawn by ECR project number 20114.00
sheet number

A9.10

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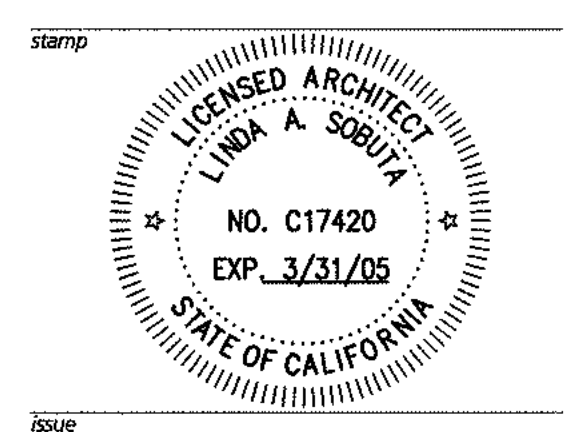
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 2004.02.11 CCD NO. 37

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BID SET

WINDOW, DOOR
 & LOUVER
 DETAILS

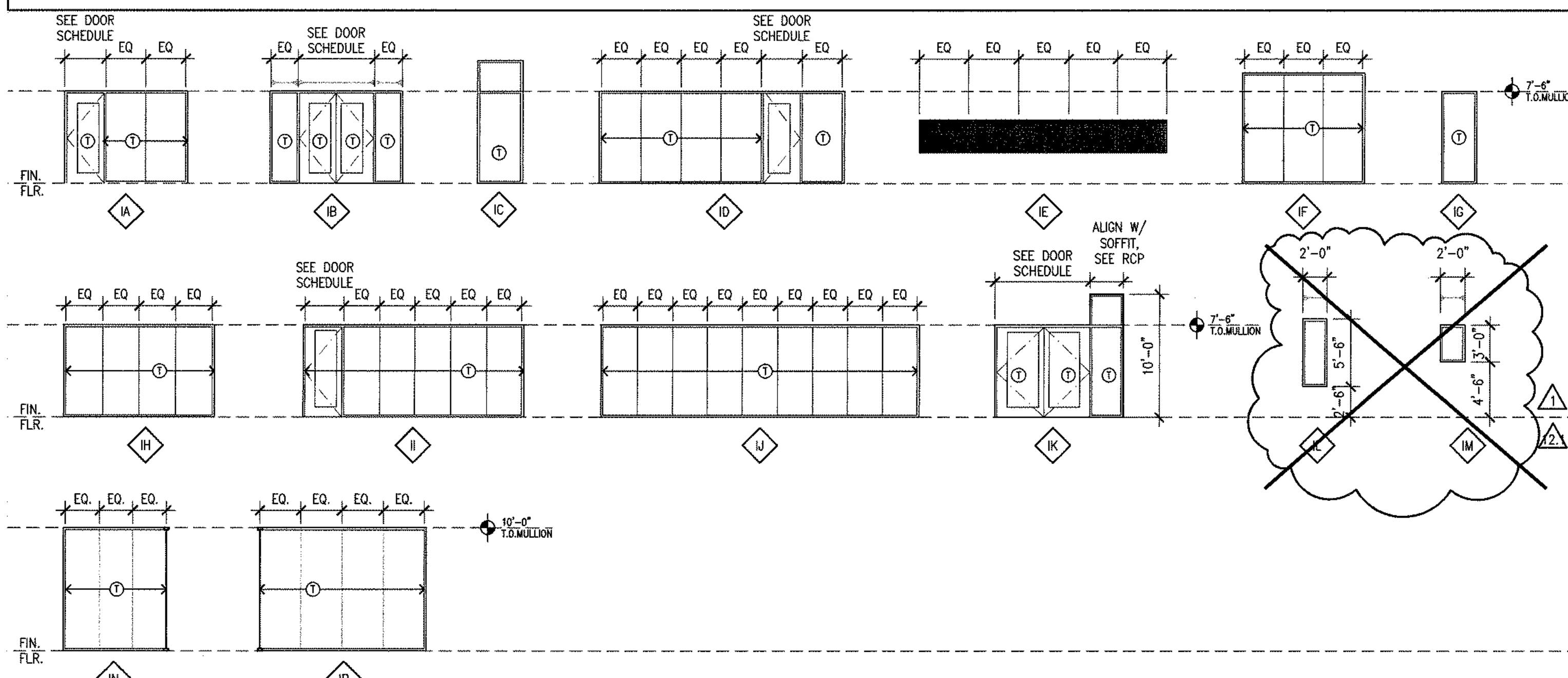
scale AS NOTED date 2003.04.18
 drawn by GSN project number 20114.00
 sheet number

A9.11

LIBRARY INTERIOR WINDOW SCHEDULE

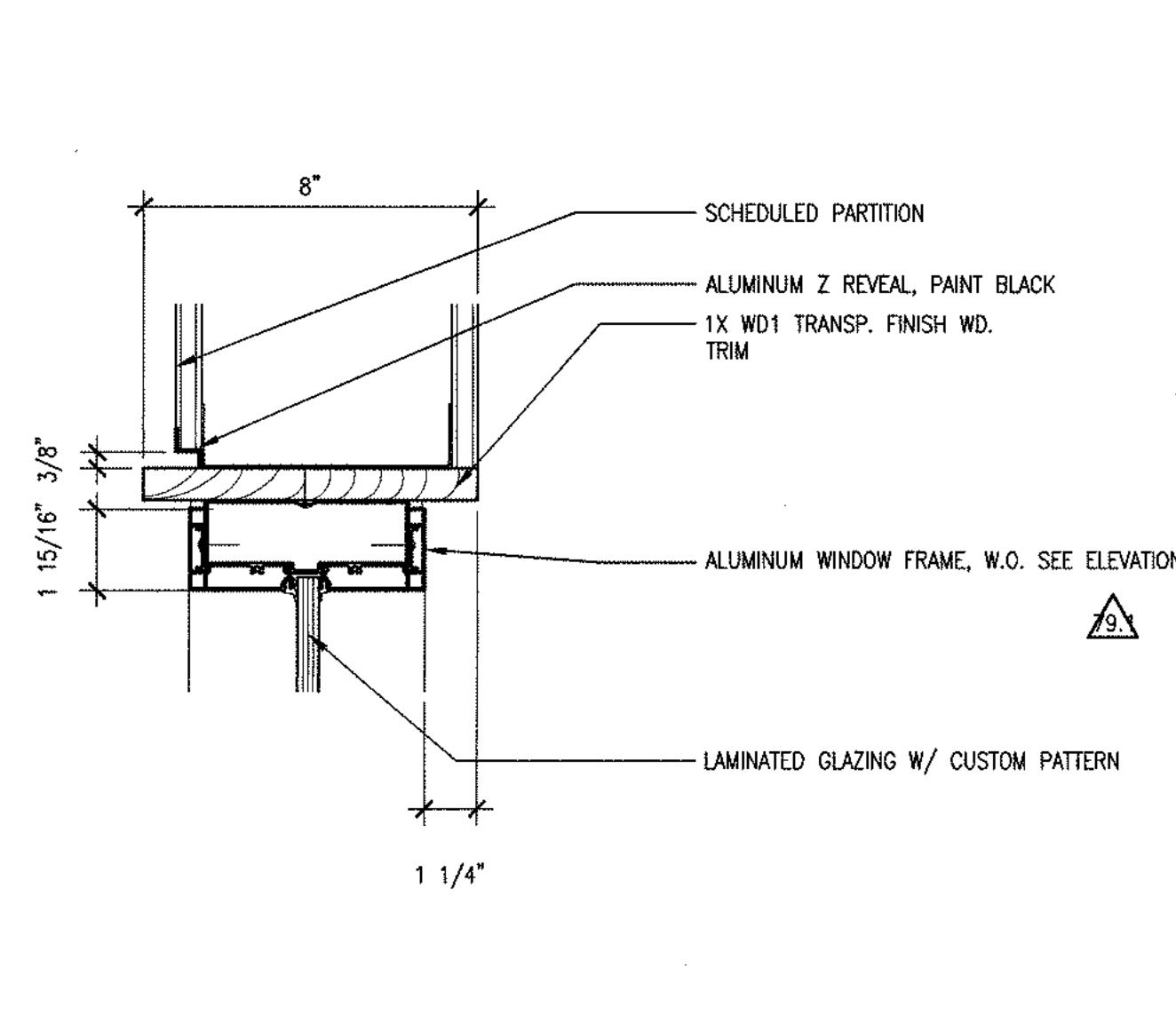
MARK	TYPE	ROOM #	Rough Opening		Glazing Type	Frame			Details			Special	Door Number	Notes
			Width	Height		Const.	Finish	Rating	Head	Jamb	Sill			
IA-1	IA	105	10'-0"	7'-6"	1/2"	AL	PF	---	10/A9.15	10/A9.15	9/A9.15	---	105A	(1)
IB-1	IB	120	10'-9"	7'-6"	1/2"	AL	PF	---	10/A9.15	13/A9.15	9/A9.15	---	---	---
IC-1	IC	114	3'-8"	10'-0"	1/2"	AL	PF	---	13/A9.15, SIM.	13/A9.15	9/A9.15	---	---	---
IC-2	IC	114	3'-8"	10'-0"	1/2"	AL	PF	---	13/A9.15, SIM.	13/A9.15	9/A9.15	---	---	---
ID-1	ID	114	20'-0"	7'-6"	1/2"	AL	PF	---	13/A9.15, SIM.	13/A9.15	9/A9.15	---	114A	---
IE-1	IE	101	20'-0"	2'-8"	1/2"	AL	PF	---	N/A	---	---	---	---	---
IF-1	IF	226	10'-0"	9'-0"	1/2"	AL	PF	---	13/A9.15, SIM.	14/A9.15	9/A9.15	---	---	---
IG-1	IG	227	2'-10"	7'-6"	1/2"	AL	PF	---	13/A9.15, SIM.	13/A9.15	9/A9.15	---	---	---
IH-1	IH	227	12'-3"	7'-6"	1/2"	AL	PF	---	10/A9.15	17/A9.15, 13/A9.15	9/A9.15	---	---	---
II-1	II	227	17'-10"	7'-6"	1/2"	AL	PF	---	10/A9.15	13/A9.15	9/A9.15	---	227A	---
IJ-1	IJ	216	28'-0"	7'-6"	1/2"	AL	PF	---	10/A9.15	13/A9.15	9/A9.15	---	---	---
IK-1	IK	215	10'-4"	VARIES	1/2"	AL	PF	---	10/A9.15	13/A9.15	9/A9.15	---	216A	---
IL-1	IL	142	2'-0"	3'-0"	1/2"	AL	PF	---	10/A9.15	10/A9.15 SIM.	10/A9.15 SIM.	DB-M	---	---
IM-1	IM	142	2'-0"	3'-0"	1/2"	AL	PF	---	10/A9.15	10/A9.15 SIM.	10/A9.15 SIM.	DB-M	---	---
IN-1	IN	146	2'-0"	3'-0"	1/2"	AL	PF	---	10/A9.15	10/A9.15 SIM.	10/A9.15 SIM.	DB-M	---	---
IO-1	IO	146	2'-0"	3'-0"	1/2"	AL	PF	---	10/A9.15	10/A9.15 SIM.	10/A9.15 SIM.	DB-M	---	---
IP-1	IP	ST1	8'-7"	10'-0"	1/2"	AL	PF	---	13/A9.15	13/A9.15, 17/19.15	9/A9.15	---	---	---
IP-2	IP	ST1	13'-9"	10'-0"	1/2"	AL	PF	---	13/A9.15	13/A9.15, 17/19.15	15/A9.15	---	---	---

WINDOW AND LOUVER TYPES

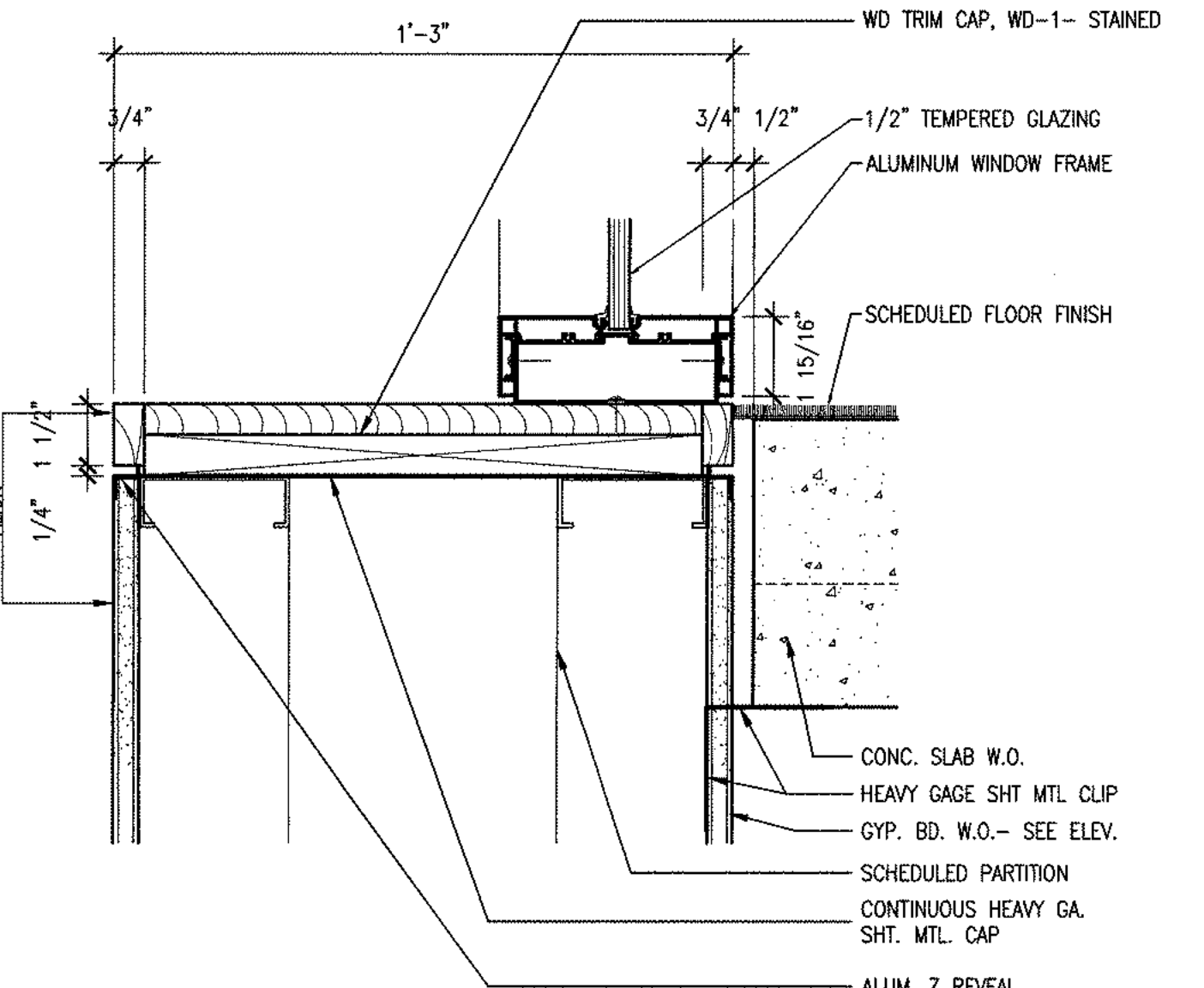


WINDOW NOTES

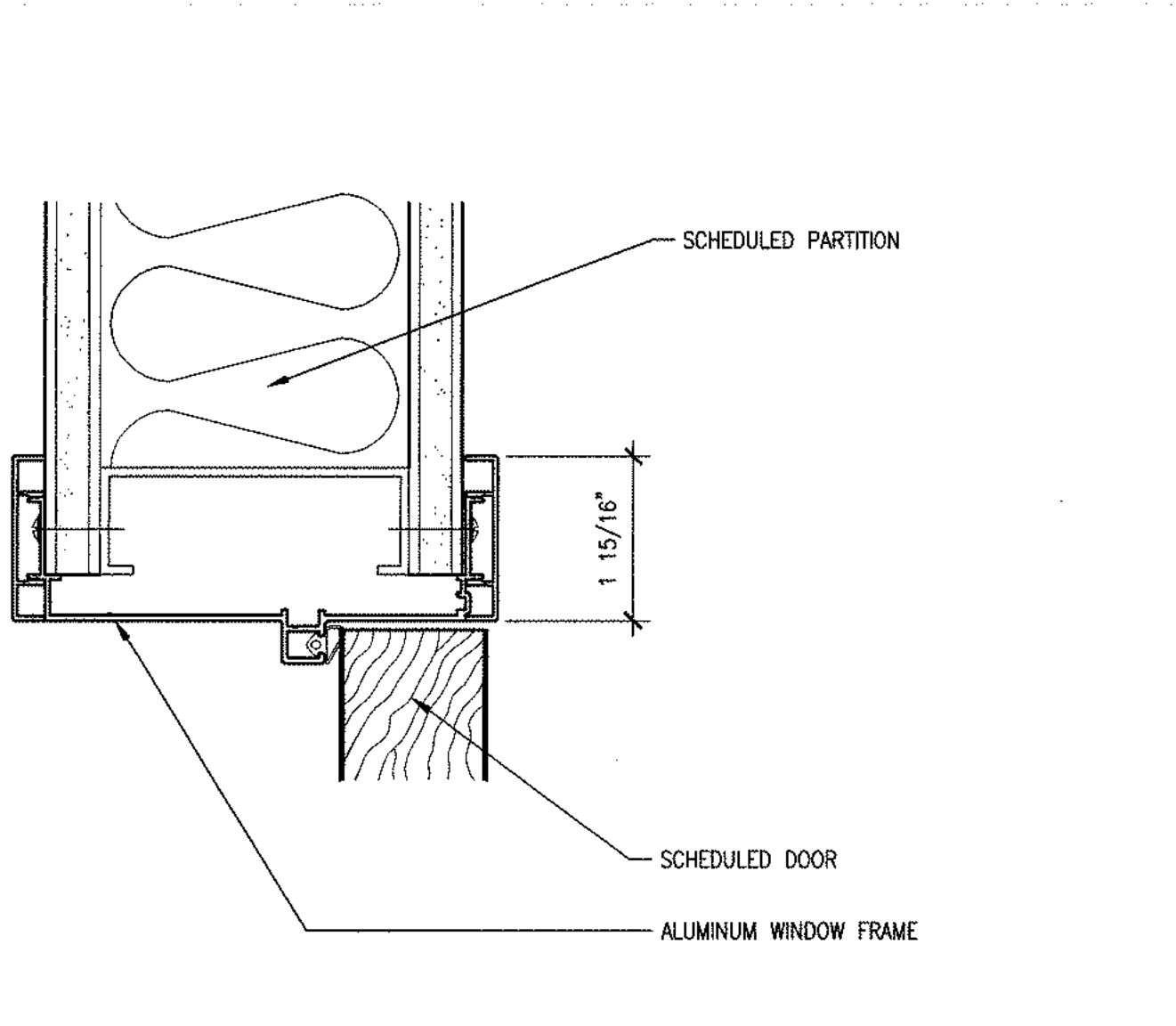
- ABBREVIATIONS & LEGEND:**
- AL ALUMINUM
 - ST STEEL
 - WD WOOD
 - NR NON RATED
 - PT PAINTED
 - PF PRE-FINISHED
 - TRANSLUCENT GLASS
 - TEMPERED GLASS
 - SOLAR CONTROL
- SOLAR CONTROL TYPES**
- BS BLACKOUT SHADE
 - M MANUALLY OPERATED
 - D DEMONSTRABLE MOUNTED TO DOOR ONLY
 - E ELECTRICALLY OPERATED (MOTORIZED)
- SHEET NOTES**
- PROVIDE SNAP-ON FASCIA FOR SHADE HOUSING
 -
 -
 -



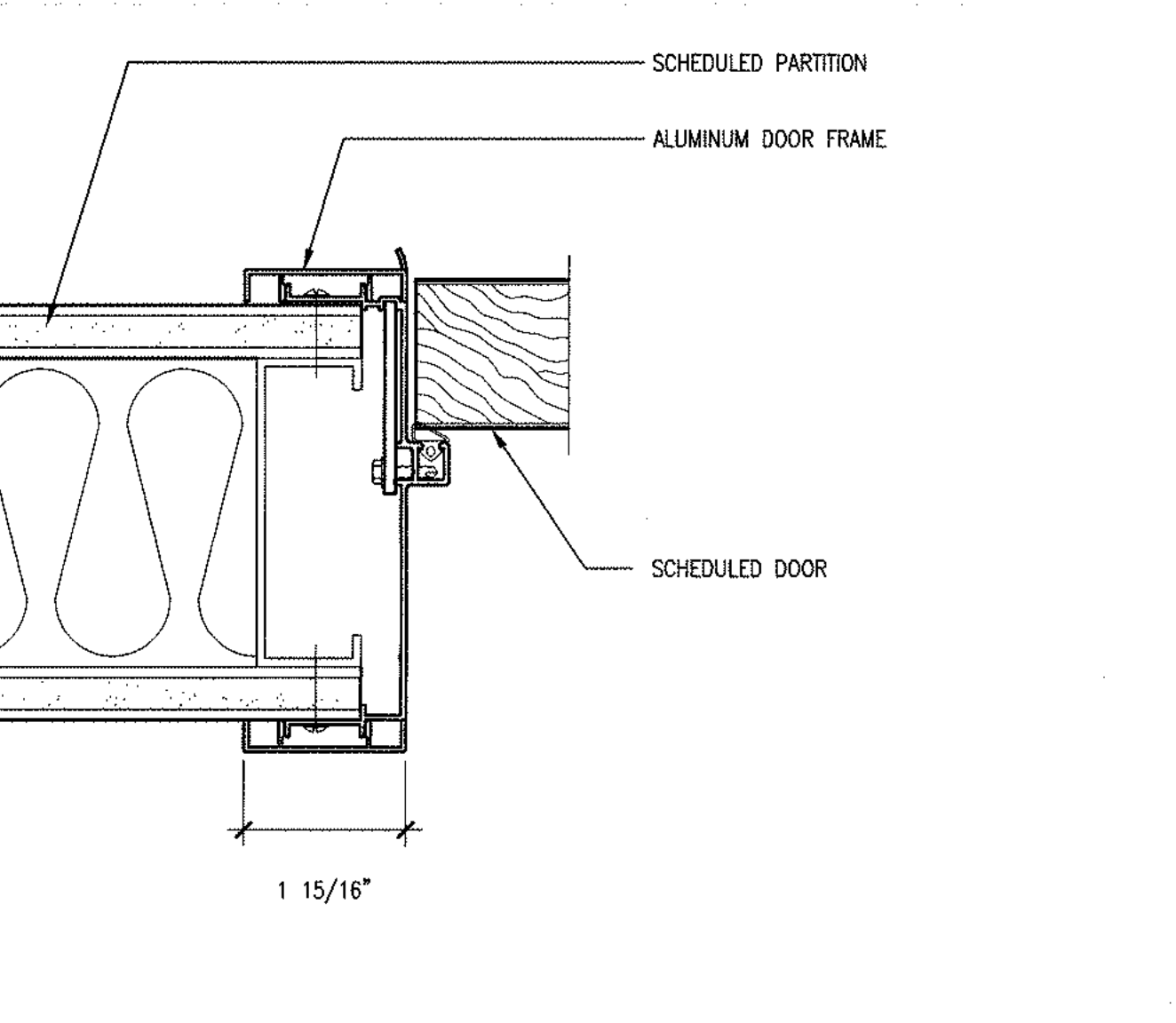
PARTITION HEAD @ DAIS 19



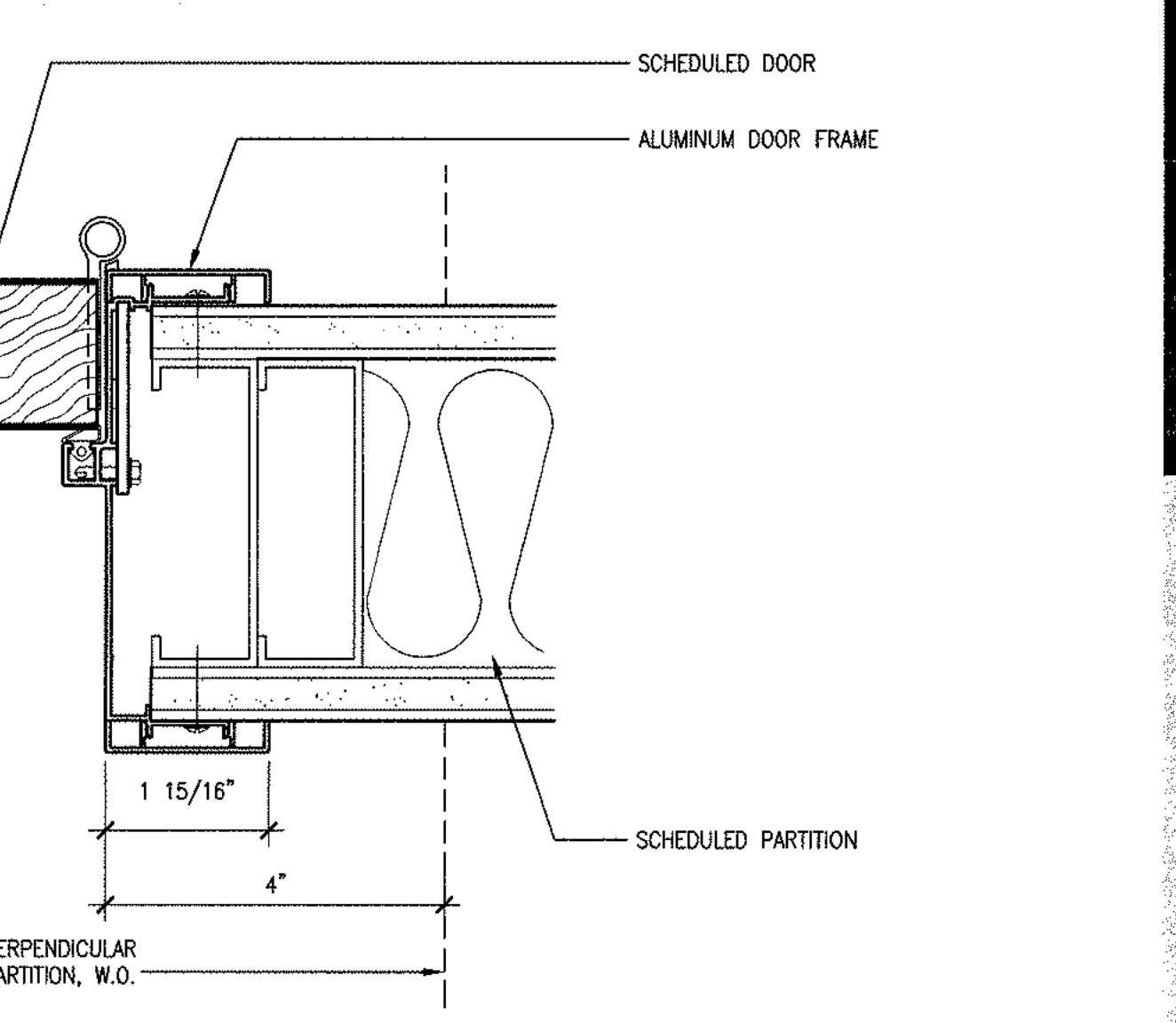
SILL AT STAIR 15



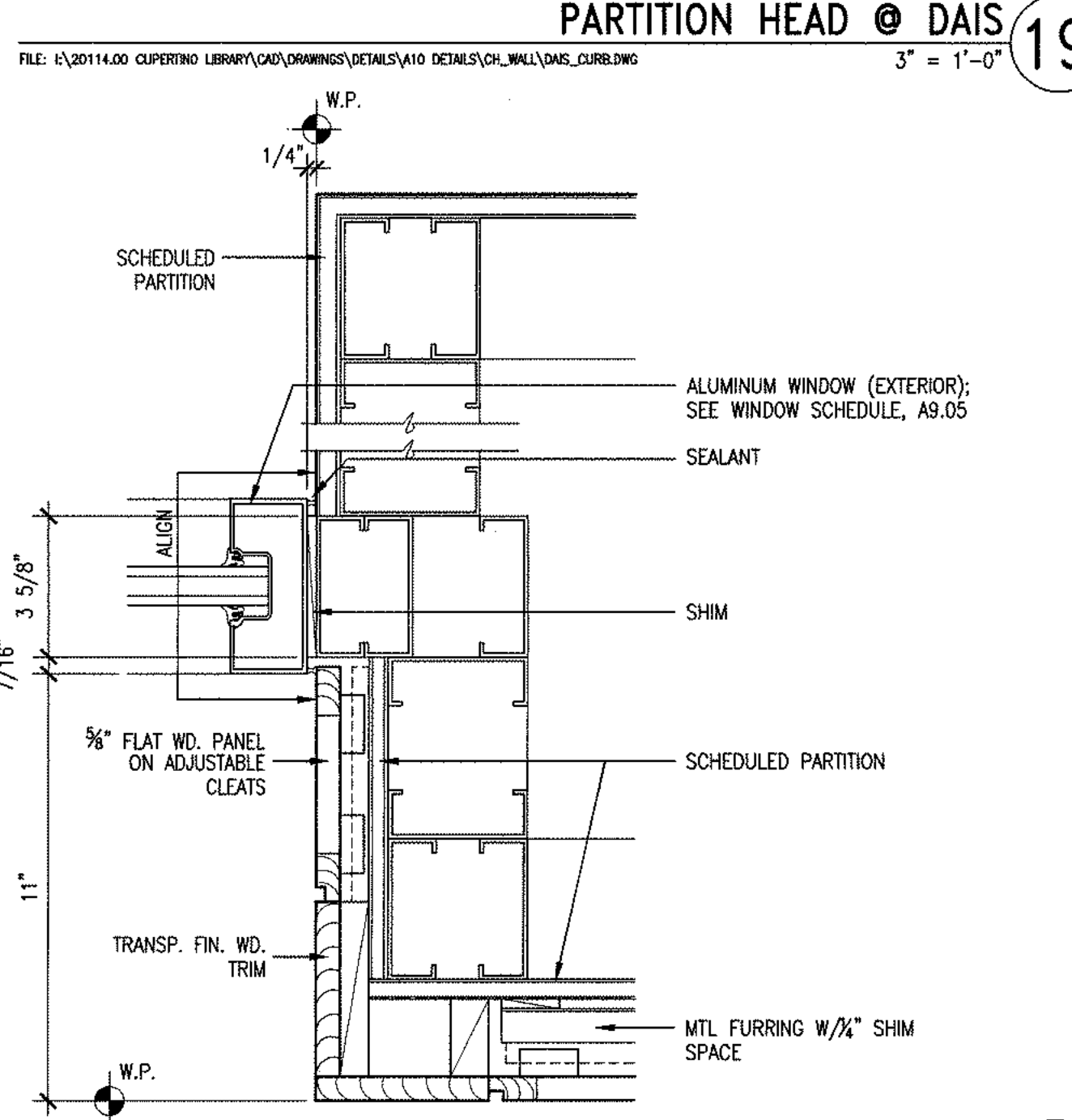
HEAD AT INTERIOR ALUMINUM DOOR 11



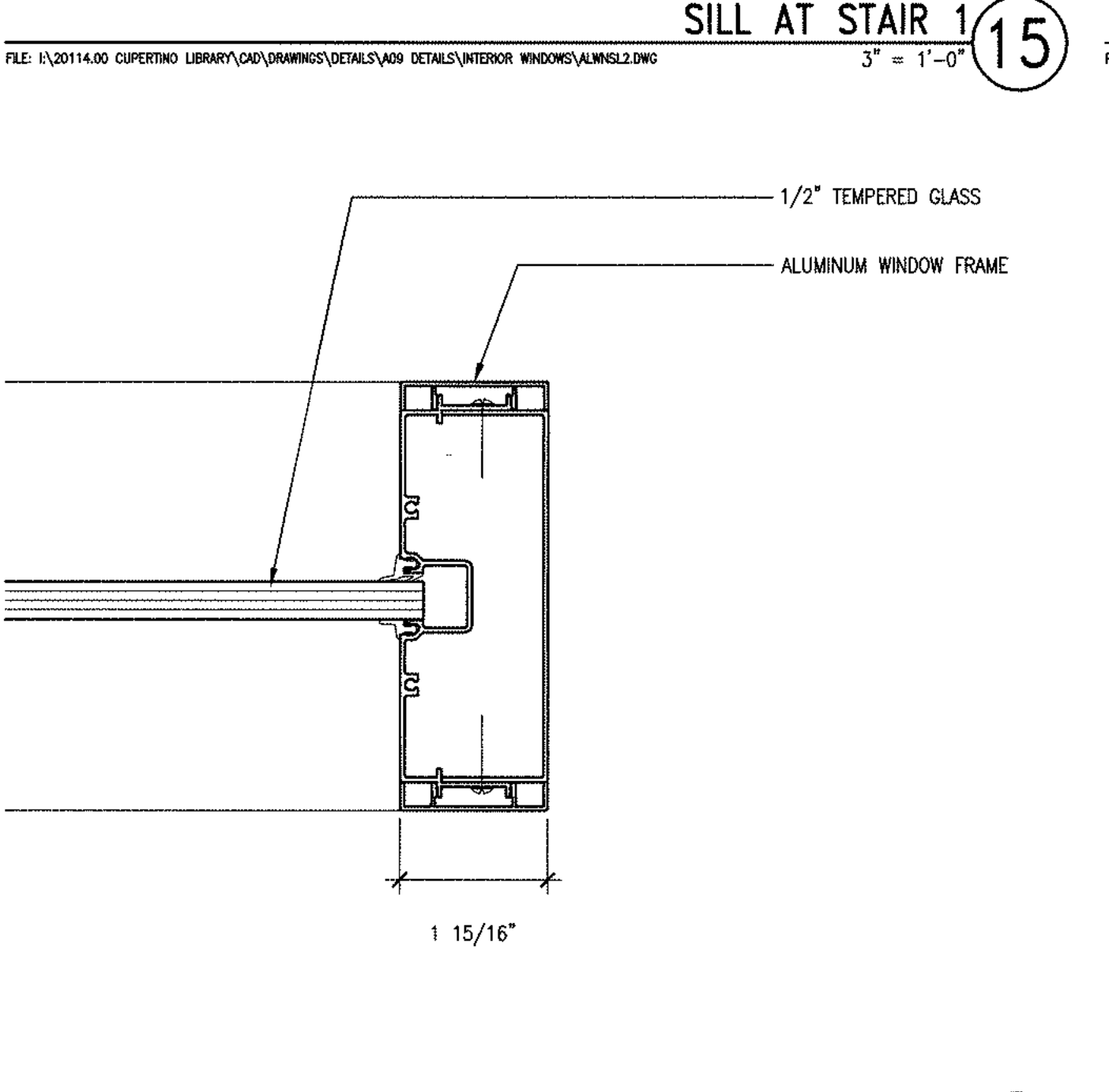
TYP. ALUMINUM DOOR STRIKE JAMB @ PARTITION 7



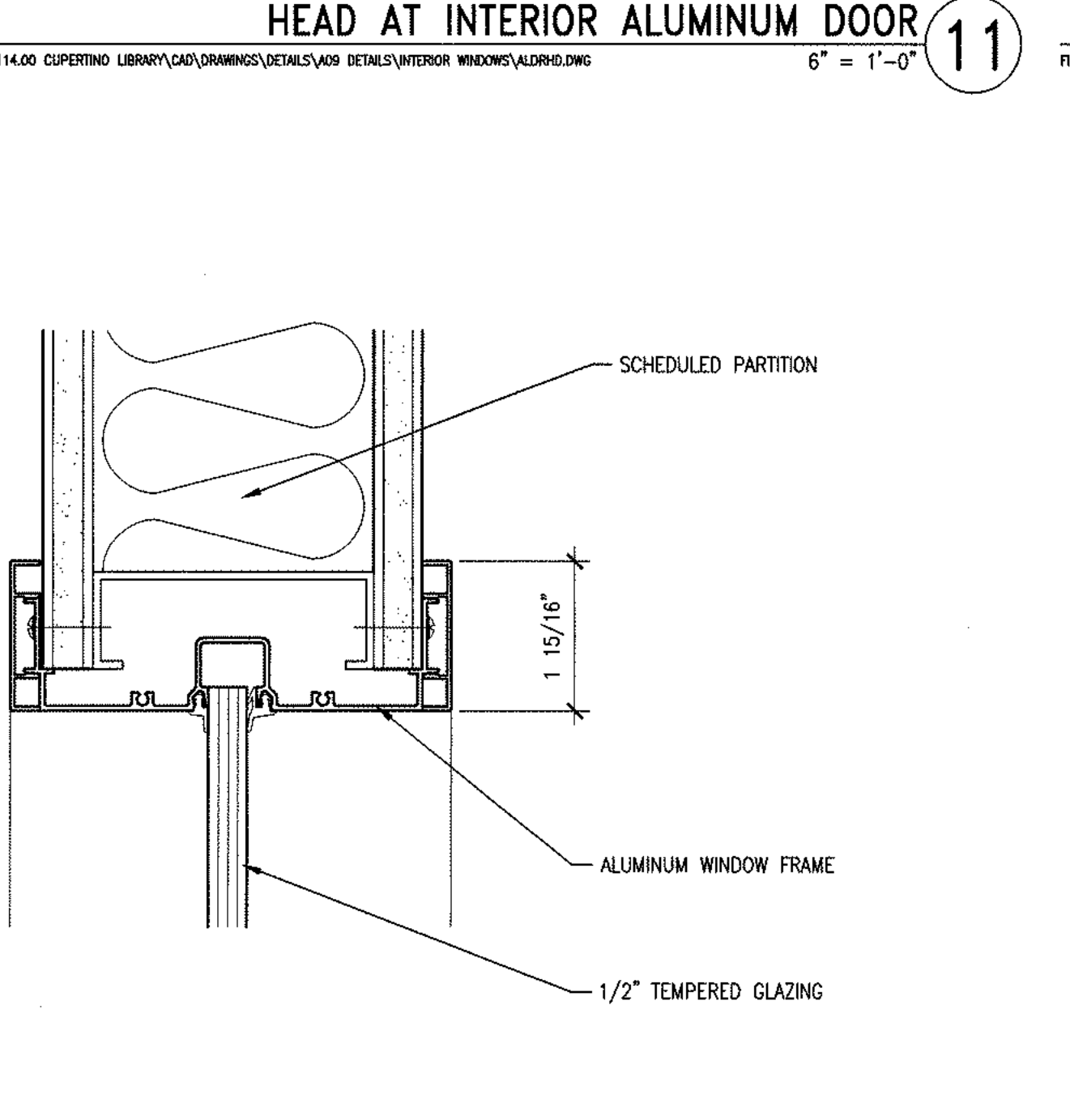
TYP. ALUMINUM DOOR HINGE JAMB @ PARTITION 3



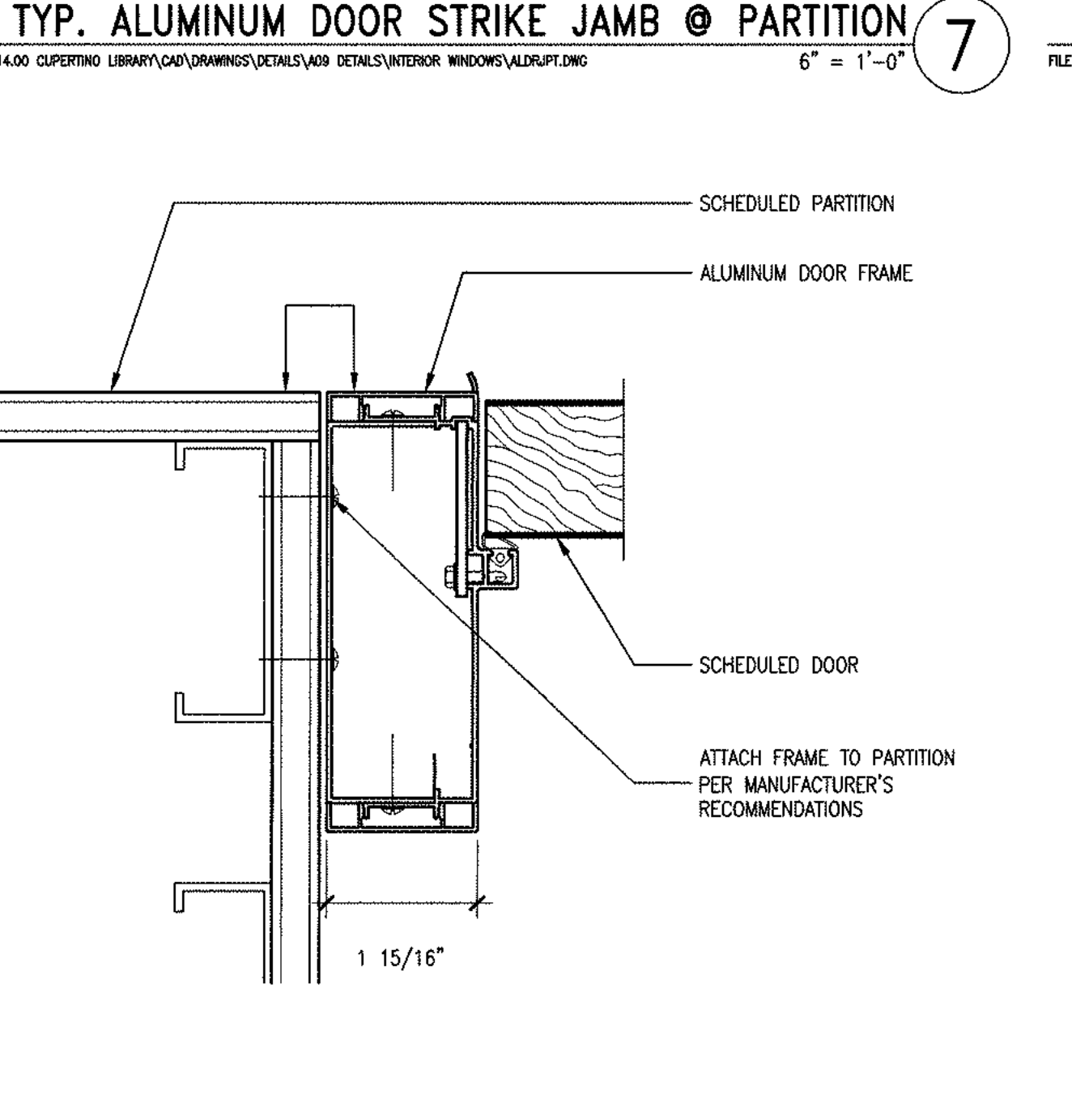
JAMB AT ALUMINUM WINDOW 18



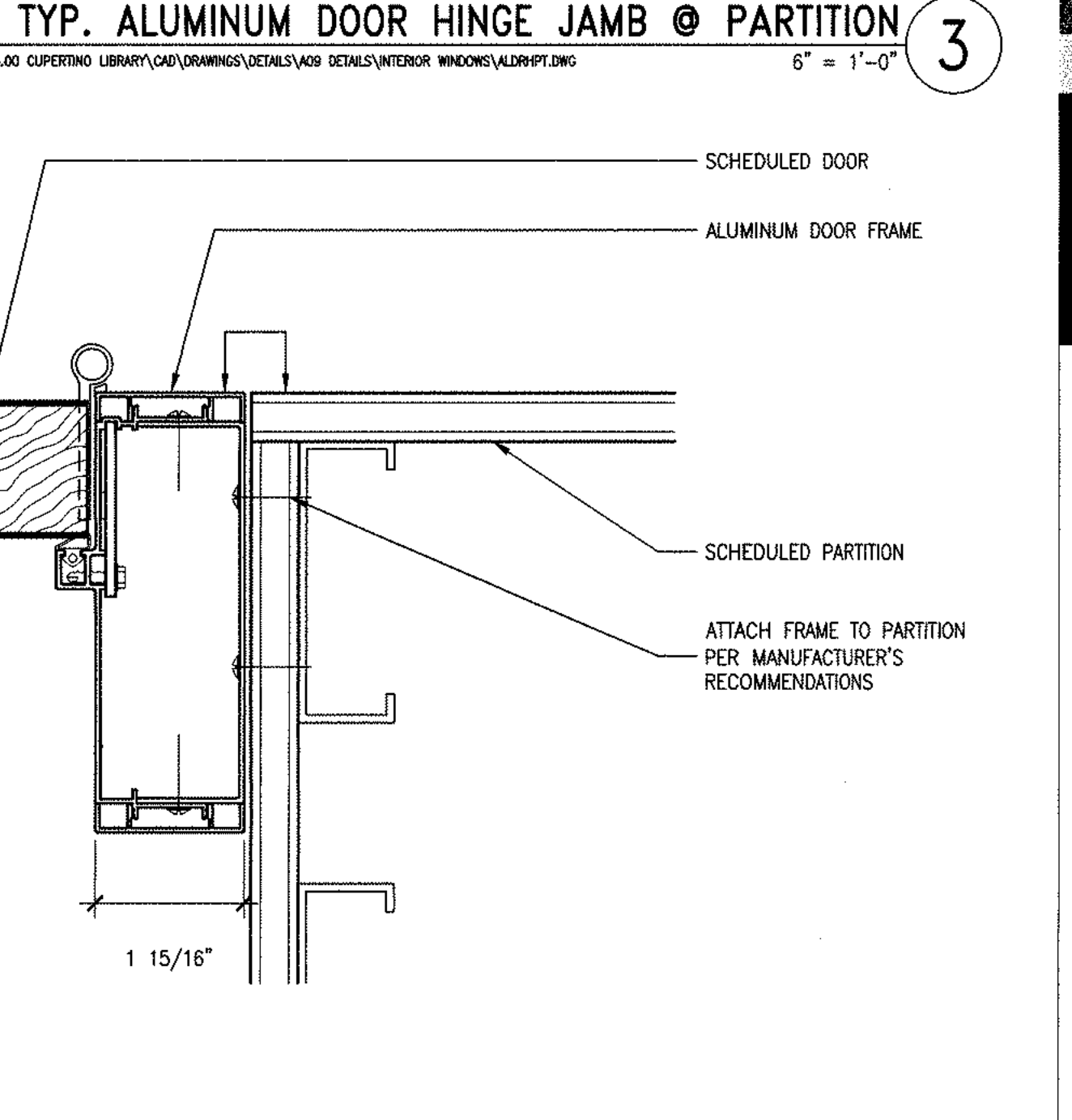
INTERIOR ALUMINUM WINDOW JAMB 14



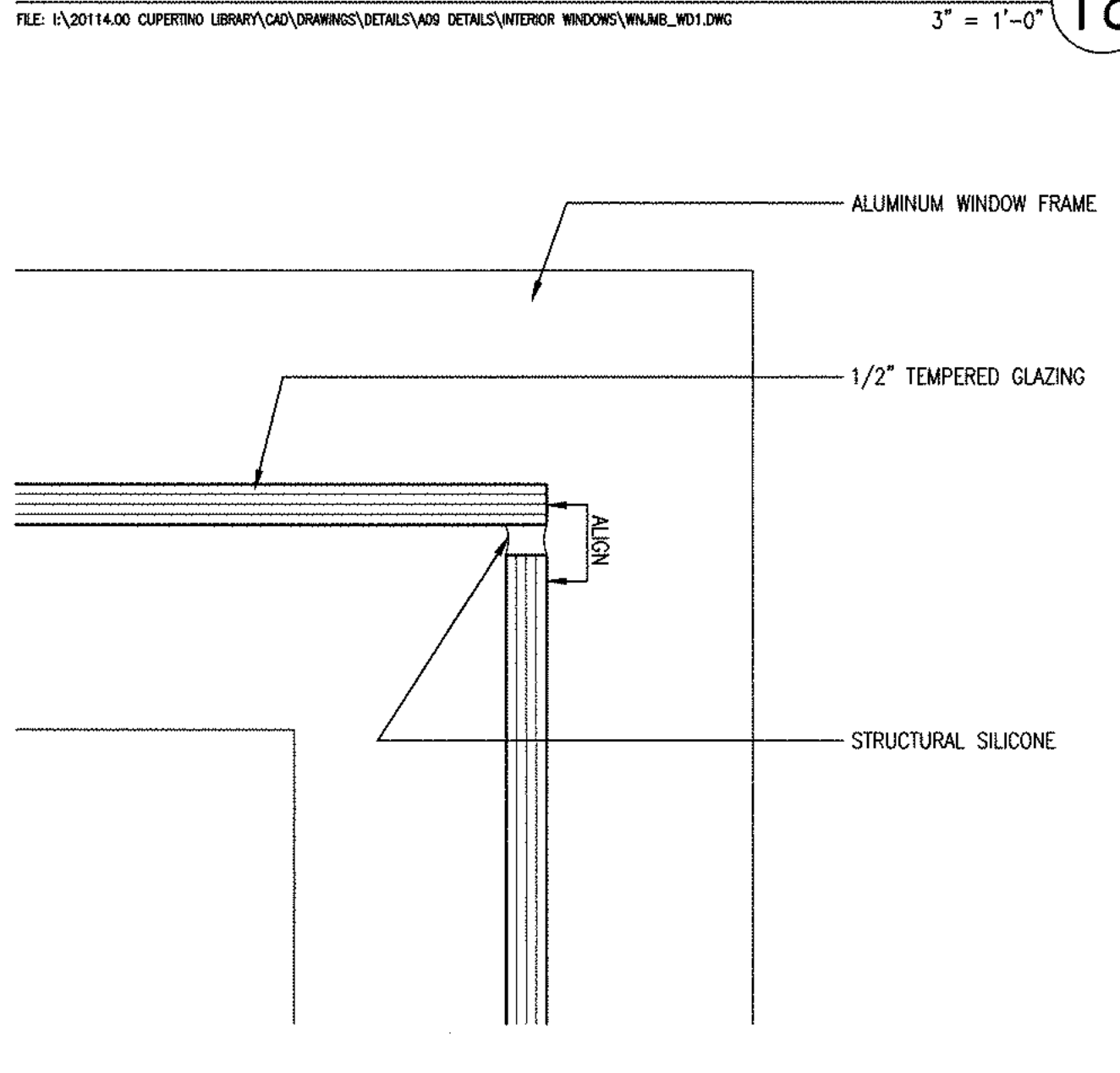
HEAD AT INTERIOR WINDOW (SILL & JAMB SIM.) 10



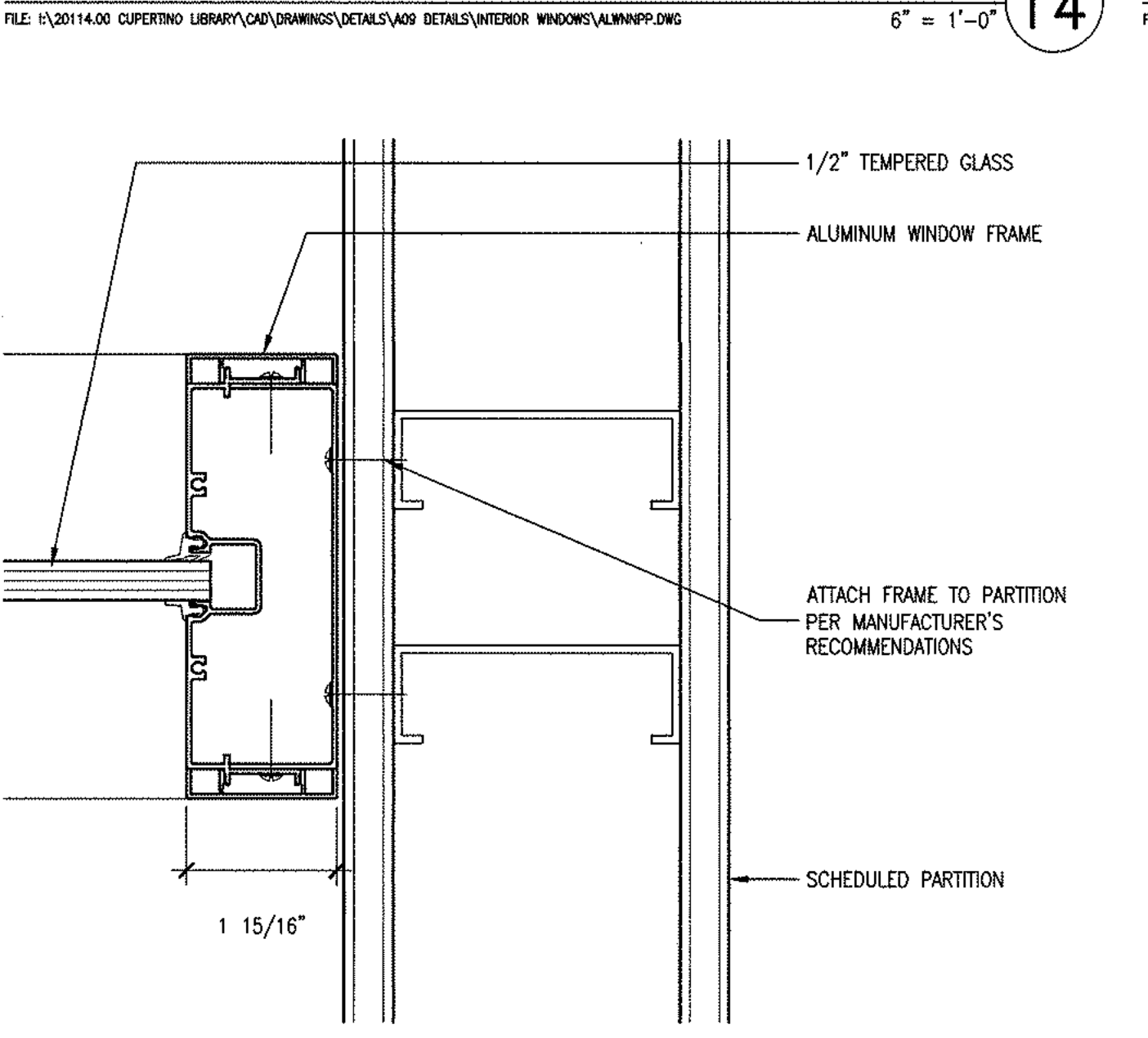
TYP. ALUMINUM DOOR STRIKE JAMB @ PARTITION 6



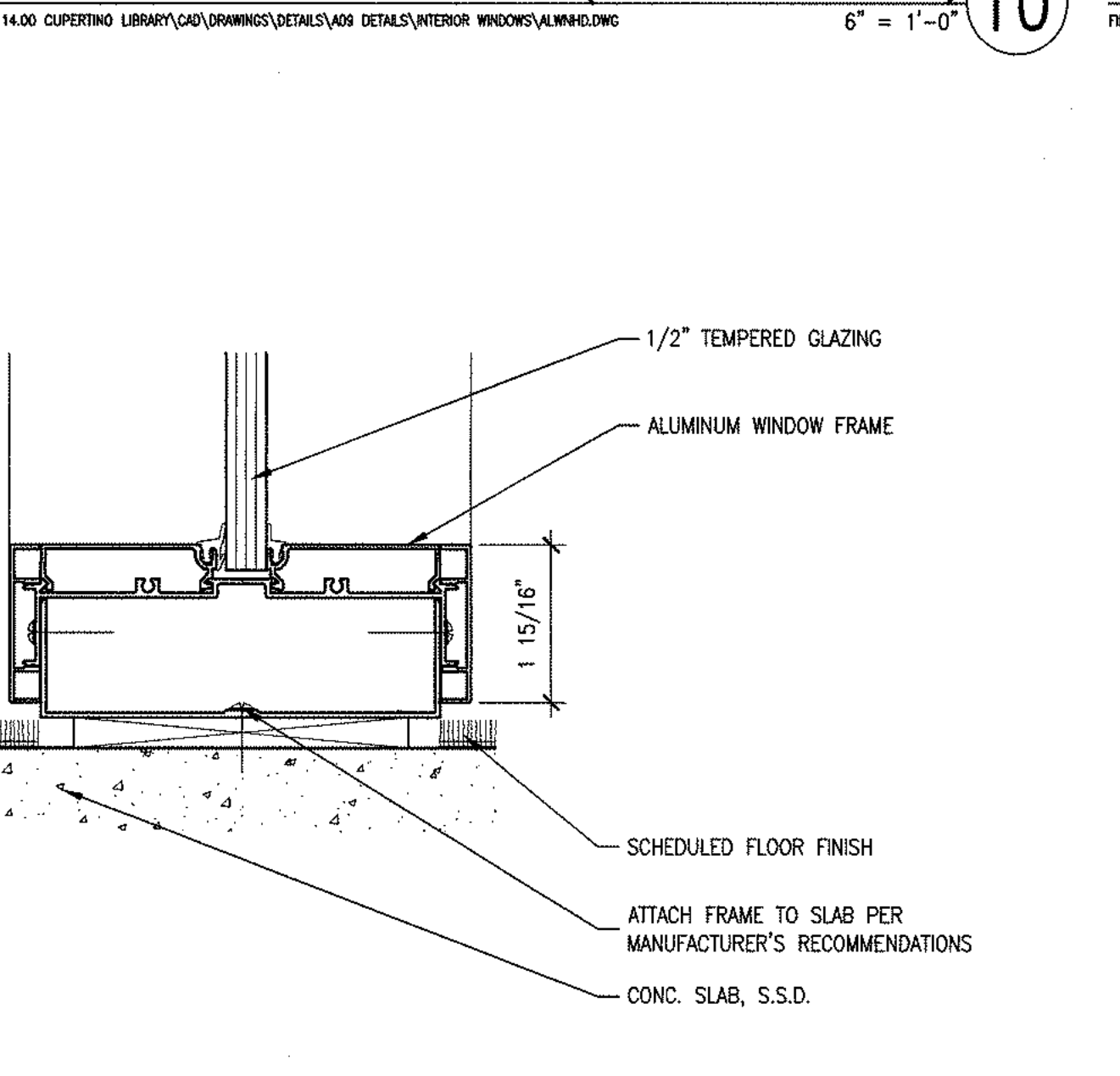
TYP. ALUMINUM DOOR HINGE JAMB @ PARTITION 2



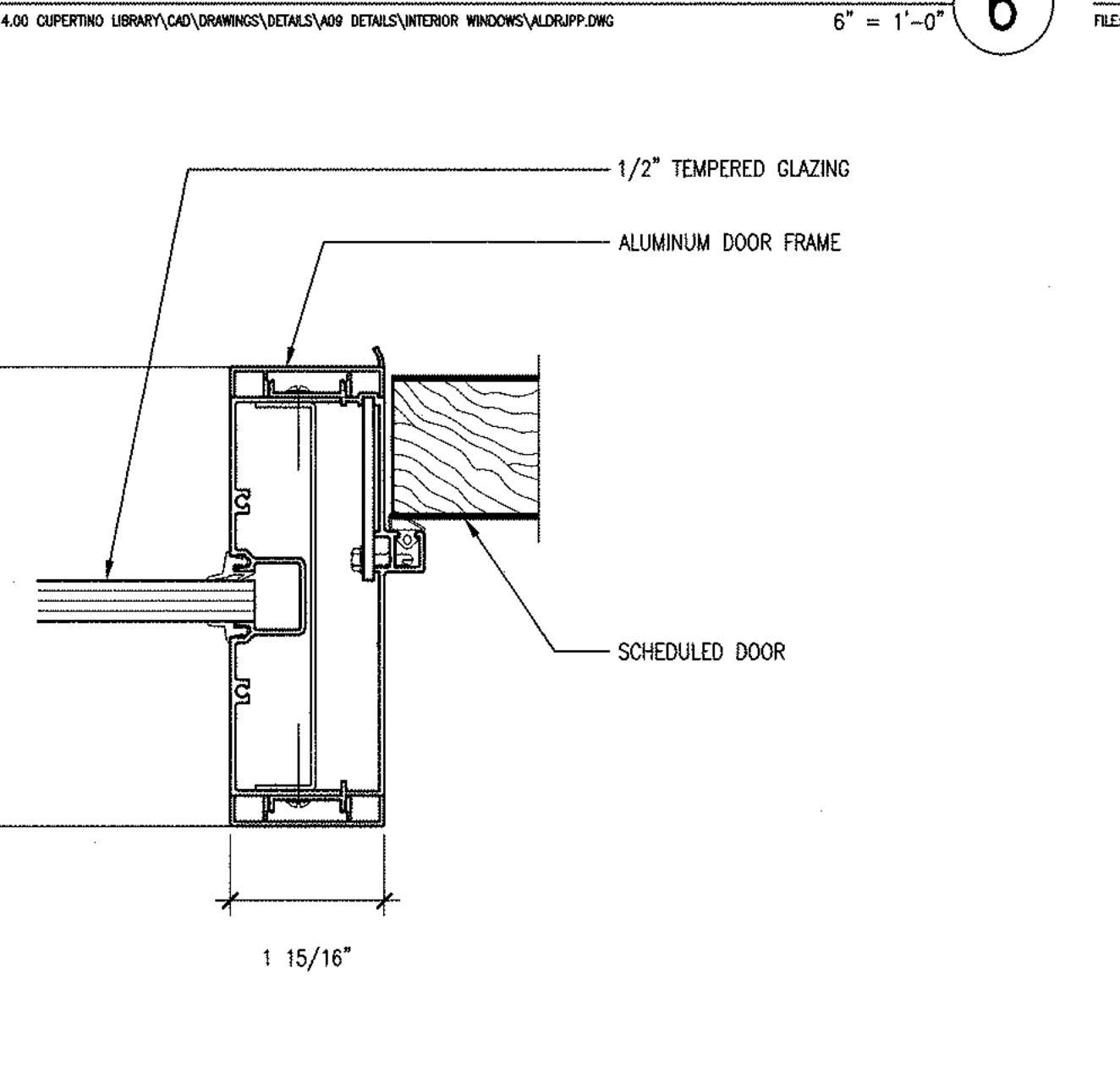
CORNER AT INTERIOR WINDOW 17



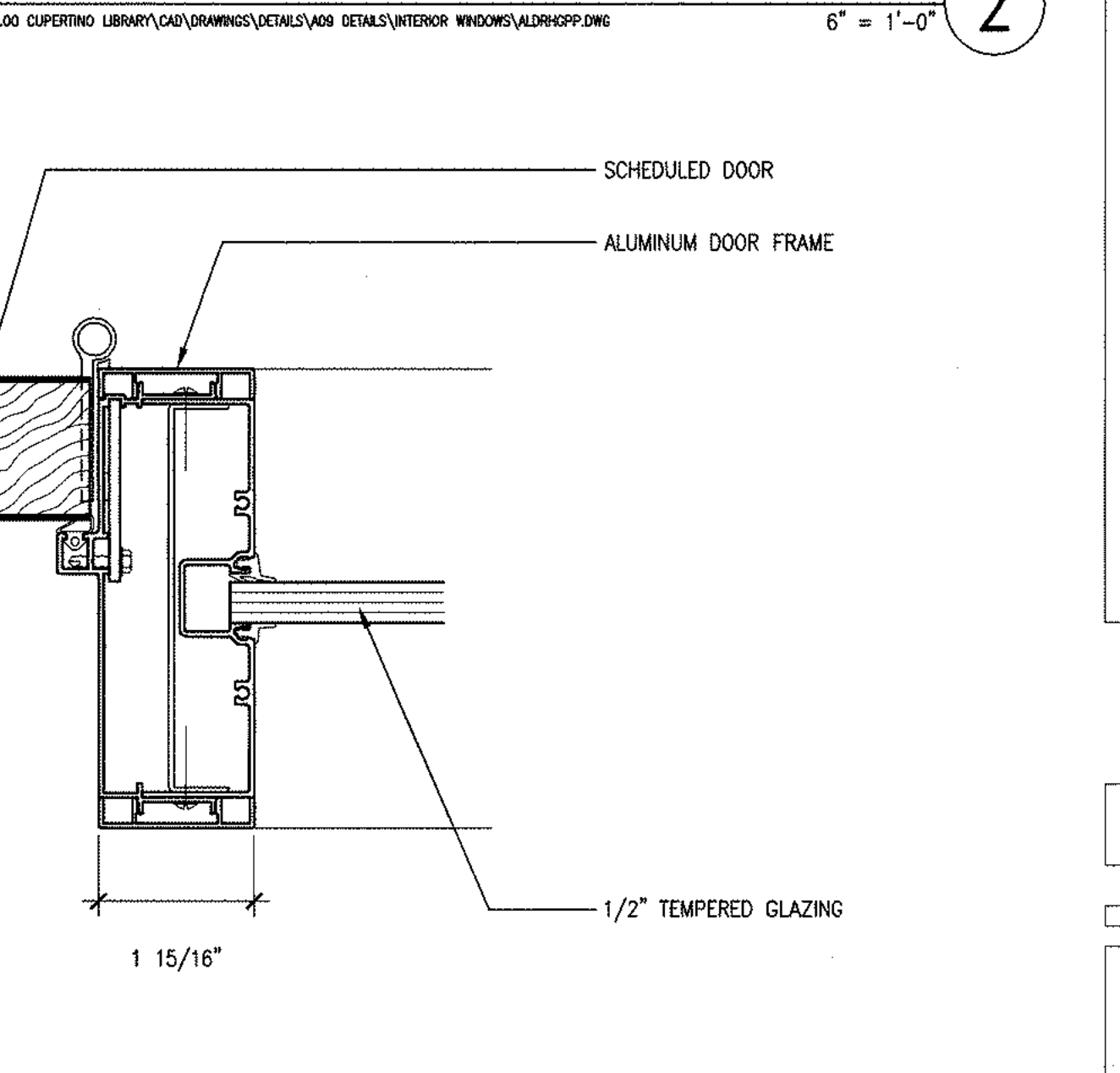
TYP. ALUM. INT. WINDOW FRAME JAMB (HEAD SIM.) 13



SILL AT INTERIOR WINDOW 9



TYP. ALUMINUM DOOR STRIKE JAMB @ GLAZING 5



TYP. ALUMINUM DOOR HINGE JAMB @ GLAZING 1

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590 Menlo Drive, Suite 1
Rocklin, CA 95765
916.435.2400 T
916.435.2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
415.865.1810 F

Forell/Elsesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415.837.0700 T
415.837.0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415.398.3833 T
415.433.5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415.495.4085 T
415.495.4660 F

REVISIONS
2003.05.07 ADDENDUM NO. 1
2003.11.24 CCD 10.1

11-29-04 Updated Contract Documents

Stamp: LICENSED ARCHITECT
LARRY A. SOUZA
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

BID SET

INTERIOR WINDOW SCHEDULE & DETAILS

Scale: AS NOTED Date: 2003.04.18
Drawn by: LR Project number: 20114.00
Sheet number: _____

A9.15

ROOM FINISH SCHEDULE - COMMUNITY HALL

NO.	ROOM NAME	FLOOR		WALLS								CEILING		REMARKS
		FINISH	BASE	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
FIRST FLOOR														
C101	LOBBY	ST-1/CPT-6	*	GWB	PT-1	GWB	AP-1	GWB	PT-1	GWB	PT-1	GWB	PT-2	* (7)
C102	NOT USED													
C103	VEST (TOILET)	CT-1	CT-1	CT-1	--	CT-3	--	CT-1	--	CT-1	--	GWB	PT-2	
C104	WOMEN	CT-1	CT-1	CT-1	--	CT-3	--	CT-3	--	CT-1	--	ACT	--	
C105	NOT USED													
C106	VEST (TOILET)	CT-1	CT-1	CT-1	--	CT-3	--	CT-1	--	CT-1	--	GWB	PT-2	
C107	MEN	CT-1	CT-1	CT-3	--	CT-1	--	CT-1	--	CT-1	--	ACT	--	
C108	MEETING ROOM	CPT-6	WD-1	GWB	WD-1/2	GWB	WD-1/2	GWB	WD-1/2	GWB	WD-1/2	EFC	PT-4 *	(6) (9)
C111	DAIS	CPT-7 / WD-1	WD-1	GWB	F-2/PT-4	GWB	F-2/PT-4	GWB	F-2/PT-4	GWB	F-2/PT-4	EXP	PT-4 *	(4) (9)
C112	BREAK ROOM	RF-1	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	
C113	CATERING	RF-1	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	
C114	JANITOR	CT-1	CT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	
C115	ELEC	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(8)
C116	CONF ROOM	CPT-7	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--	
C117	HALL	CPT-7	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-2	
C118	AV	--	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	

FINISH NOTES

ABBREVIATIONS:

ACT	ACOUSTICAL CEILING TILE, SUSPENDED	EXP	EXPOSED TO STRUCTURE AND DECK	SFC	RESILIENT FLOORING
AC DK	ACOUSTICAL CEILING	F	FABRIC (ON WRAPPED WALL PANEL)	RF	RESILIENT FLOORING
AP	ARTISAN PLASTER	FRP	FIBERGLASS REINFORCED PANEL	SFC	STRETCHED FABRIC CEILING
ATP	ACRYLIC TRANSLUCENT PANEL	GL	GLASS	SLR	SEALER, CLEAR
BB	BULLETIN BOARD WALLCOVERING	GL	GLASS	SS	STAINLESS STEEL
CPT	CARPET	GWB	GYPSUM WALL BOARD	ST	STONE
CONC	CONCRETE	MPLYWD	MARINE GRADE PLYWOOD	TC	TRAFFIC COATING W/NON-SLIP AGGREGATE
CT	CERAMIC TILE	PLAM	PLASTIC LAMINATE	WD	WOOD
EFC	EUROSPAN FABRIC CEILING	PT	PAINT, COLOR TO BE DETERMINED	N.I.C.	NOT IN CONTRACT
		RB	RESILIENT BASE		

GENERAL NOTES:

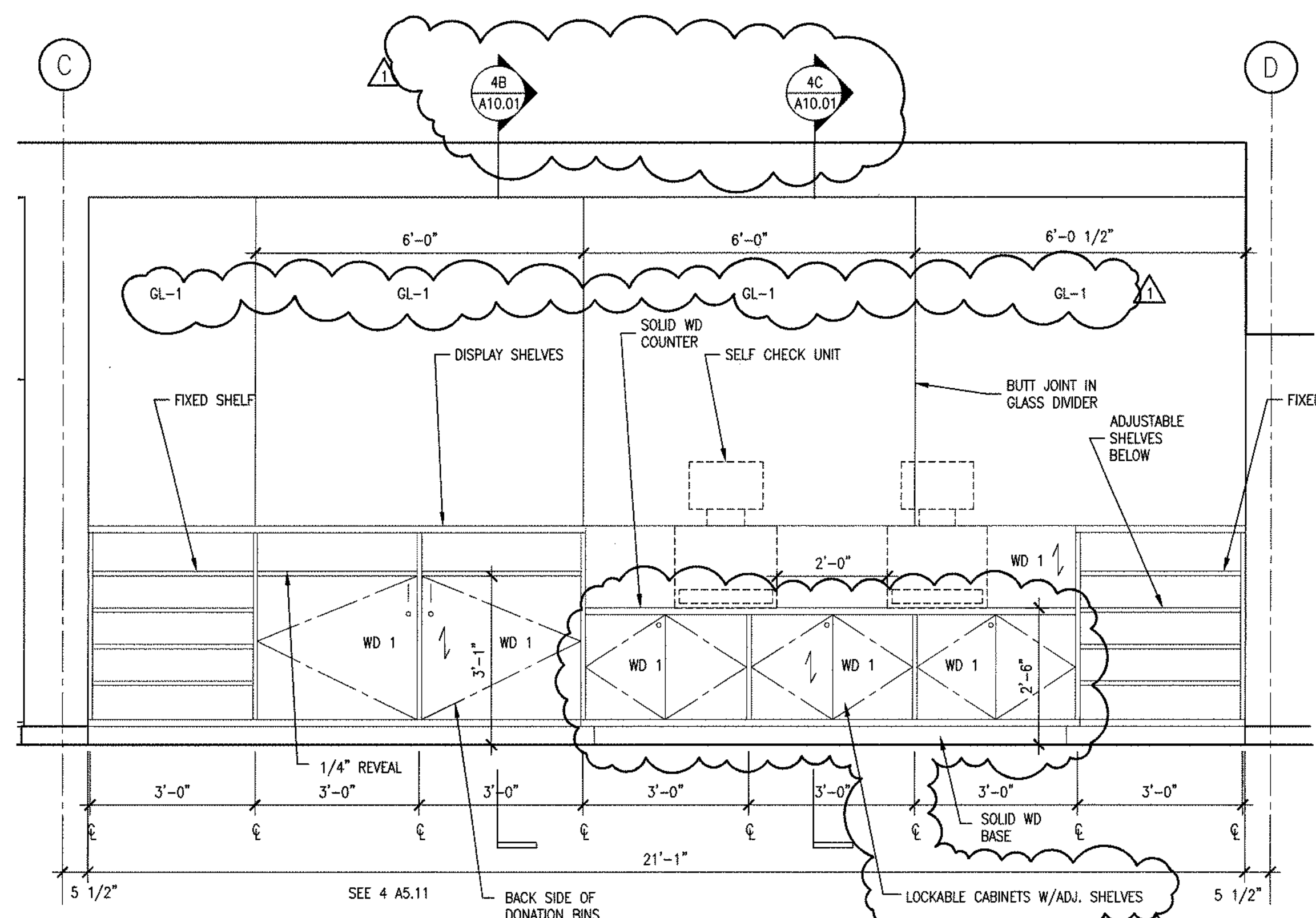
- SEE INTERIOR FINISH LIST FOR SPECIFIC MATERIAL INFORMATION
- SEE FLOOR FINISH PLANS FOR CLARIFICATION ON EXTENT OF FLOOR FINISHES.
- SEE INTERIOR ELEVATIONS FOR CLARIFICATION ON EXTENT OF WALL AND SOFFIT FINISHES.
- SEE REFLECTED CEILING PLANS FOR CLARIFICATION ON EXTENT OF CEILING AND SOFFIT FINISHES.
- FOR CEILING HEIGHTS SEE REFLECTED CEILING PLANS.
- LAY-IN-ACOUSTIC CEILING TO BE WATERPROOF AT TOILET ROOMS.
- WHERE NOT INDICATED, COLOR IS TO BE DETERMINED BY ARCHITECT PER SPECS.
- EXPOSED FLOOR & ROOF DECKING @ OCCUPIED SPACES ARE TO BE PAINTED.
- REFER TO SPEC. SECTION 09900 FOR PAINTING REQUIREMENTS AT ACOUSTICAL ROOM.
- REFER TO SPEC. SECTION 09960 FOR HIGH PERFORMANCE COATING @ AQUARIUM LIFE SUPPORT SYSTEM ROOM.

SHEET NOTES:

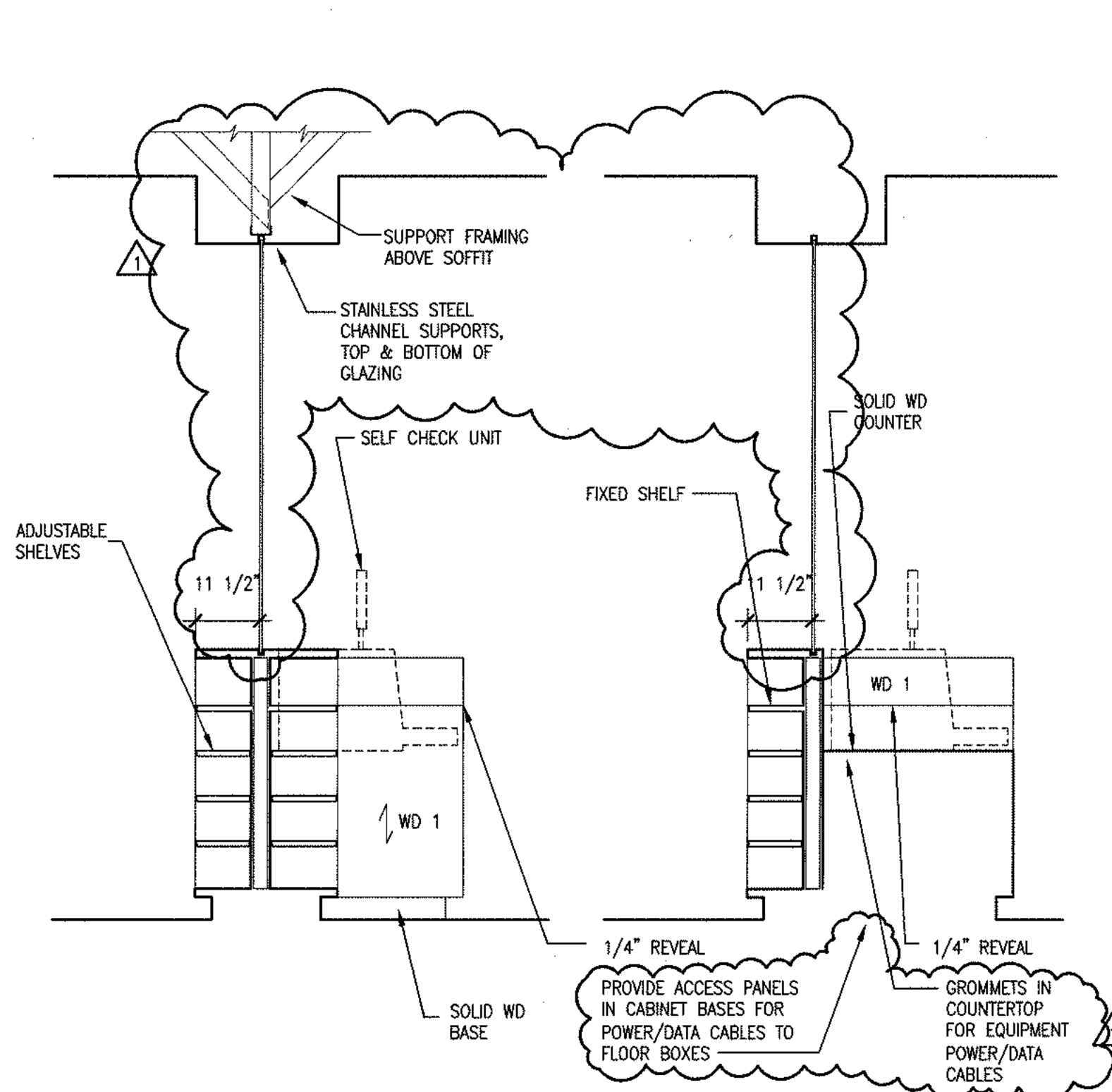
- PT-2 AT GWB CEILING AND SOFFITS ONLY
- 2" DUCT LINER ON (2) ADJACENT WALLS & CEILING
- INSTALL 4" X 8" FIRE TREATED PLYWOOD BACKBOARD OVER GYPSUM WALLBOARD; SEE ELEC./TELECOM DWGS. FOR EXACT LOCATIONS
- PAINT METAL DECK AND ALL EXPOSED DUCTS, CONDUIT, PIPING, HANGERS, SUPPORTS, ETC P-4. APPLY BLACK ACOUSTIC BOARD TO METAL DECK
- BASE TO BE WD/PT-3 AT NORTH ELEVATION, RB-1 ALL OTHER ELEVATIONS
- PT-12 ON UNDERSIDE OF SOFFITS AT EXTERIOR DOORS
- BASE TO BE WD/PT-1 AT STAIR. FLUSH STONE BASE AT AQUARIUM & ELEVATOR VESTIBULE RB-1 ALL OTHER ELEVATIONS
- BASE TO BE WD/PT-3 AT SOUTH ELEVATION, RB-1 ALL OTHER ELEVATIONS
- BASE TO BE WD/PT-1 AT WEST ELEVATION AND STAIR, WD/PT-5 AT CENTER WALL OF STAIR
- BASE TO BE WD/PT-6 AT EAST AND WEST; AND WD/PT-1 AT PARTIAL SOUTH ELEVATION, RB-1 ALL OTHER ELEVATIONS
- BASE TO BE WD/PT-1 AT EAST ELEVATION, RB-1 ALL OTHER ELEVATIONS
- BASE TO BE WD/PT-3 AT NORTH AND SOUTH ELEVATIONS, RB-1 ALL OTHER ELEVATIONS
- GWB AND PT-1 ON SOFFIT OF EAST ELEVATION, ALONG COLUMN LINE 4
- PT-1 AND RB-1 ON COLUMN ENCLOSURES ALONG COLUMN LINE 4
- WD-1 TRIM AND F-2 FABRIC WALL PANEL ON EAST ELEVATION OF PARTIAL HEIGHT WALL, GWB / PT-1 ON OPPOSITE SIDE.
- SEE SPECIFICATIONS FOR FURTHER INFORMATION REGARDING ELEVATOR CAB FINISHES
- BASE TO BE WD/PT-5 AT EAST ELEVATION; AND WD/PT-1 AT ALL OTHER ELEVATIONS
- EXPOSED WALL DECK & BEAMS TO BE PAINTED WITH HIGH PERFORMANCE COATING.
- ALL WALL PENETRATIONS TO BE SEALED WITH SILICONE SEALANT
- FRP ON CEILING
- ATP-1 @ AQUARIUM; WD-1 WALL PANELS AT ELEVATOR VESTIBULE; PAINT GWB SUBSTRATE BLACK

ROOM FINISH SCHEDULE - LIBRARY

NO.	ROOM NAME	FLOOR		WALLS								CEILING		REMARKS	
		FINISH	BASE	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH		
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH				
FIRST FLOOR															
101	LOBBY	ST-1/ST-2	WD/PT-1	GWB	PT-1	GWB	AP-1/PT-5	GWB/GL	PT-1	GWB	PT-1	GWB/EFC	PT-2 *	(1)	
102	BROWSING STACKS	CPT-4	WD/PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
103	BROWSING SEATING	*	*	*	*	*	*	*	*	*	*	*	*	SEE 102 BROWSING STACKS	
104	CAFE	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.		
105	GROUP STUDY	CPT-3	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
106	ELEC. ROOM	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(3)	
107	M.P.O.E. & SERVER	RF-1	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(3)	
108	COPIER	RF-1	*	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--	(6)	
109	ELEV. MACH. ROOM	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(2)	
110	LIFE SUPPORT SYSTEM	TC	TC	MPLYWD	FRP*	MPLYWD	FRP*	MPLYWD	FRP*	MPLYWD	FRP*	EXP	--	(18) (19)	
111	CHILDREN'S COLLECTION	CPT-3/ST-2	*	GWB	AP-3	GWB	PT-1/PT-2	GWB	PT-1	GWB	PT-1	ACT	--	(18)	
112	CHILDREN'S COLL. SEATING	CPT-3	*	GWB	AP-3	GWB	PT-1/PT-2	GWB	PT-1	GWB	PT-1	ACT	--	(6)	
113	SEATING	CPT-1/ST-2	*	--	GL/GWB	AP-3	GL/GWB	PT-1	GWB	PT-1	GWB	PT-1/8/9	ACT	--	(7) (21)
114	CHILDREN'S GROUP STUDY	CPT-3	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
115	CHILDREN'S PICTURE BOOKS	CPT-3	*	--	--	GWB	AP-3/BB-1	--	--	GWB	PT-7	ACT	--	(6)	
116	CHILDREN'S PICTURE BOOK SEATING	CPT-3	*	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--	(8)	
117	W.C.	CT-1	CT-1	CT-1	--	CT-1	--	CT-2	--	CT-1	--	GWB	PT-2		
118	W.C.	CT-1	CT-1	CT-1	--	CT-1	--	CT-2	--	CT-1	--	GWB	PT-2		
119	STORAGE	RF-1	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--		
120	STORYTIME	CPT-1A/CPT-3	RB-1	GWB	F-1/PT-4	GL/GWB	PT-1/PT-4	GL/GWB	PT-1/PT-4	GWB	PT-1/PT-4	SFC	PT-4 *	(4)	
121	CHILDREN'S PICTURE BOOKS	CPT-3	RB-1	GL/GWB	PT-1/PT-4	GWB	PT-1/PT-4	GL/GWB	PT-1/PT-4	GWB	PT-4	SFC	PT-4 *	(4)	
122	NOT USED														
123	STAFF BREAKROOM	RF-2A/2B	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
124	VESTIBULE	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-2	1 HR RATED CEILING	
125	PASSAGE	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
126	HALL	CPT-2	RB-1	--	--	GWB	PT-1	GWB	PT-1	GWB	PT-1/BB-2	ACT	--		
127	STORAGE	RF-1	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--		
128	MAIN SWITCHBOARD ROOM	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--		
129	W.C.	CT-1	CT-1	CT-1	--	CT-1	--	CT-2	--	CT-1	--	GWB	PT-2		
130	W.C.	CT-1	CT-1	CT-2	--	CT-1	--	CT-1	--	CT-1	--	GWB	PT-2		
131	NOT USED														
132	ELEV. MACH. ROOM	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(2)	
133	HOLDING TANK	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--		
134	CHILDREN'S LIB. OFFICE	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
135	CHILDREN'S STAFF WORKROOM	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
136	CIRC. STAFF WORKROOM	*	*	*	*	*	*	*	*	*	*	ACT	--	SEE 135 CHILDREN'S STAFF WORKROOM	
137	CIRC. STAFF STORAGE	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
138	LIBRARY SUP. OFFICE	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
139	NOT USED														
140	NOT USED														
141	STAFF CONF. ROOM	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
142	CIRC. SUP. OFFICE	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
143	BOOK HOLD	ST-1	WD/PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-2		
144	DELIVERY & MAIL	CPT-2	RB-1	--	--	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
145	CIRC. DESK	RF-3	--	*	*	*	*	*	*	*	*	*	*	SEE 101 LOBBY	
146	INSIDE MATS RETURN	CPT-2	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
147	BOOK RETURN ROOM	RF-1	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT	--		
148	BOOK RETURN BIN	*	*	*	*	*	*	*	*	*	*	GWB	PT-2	SEE 101 LOBBY	
149	NOT USED														
150	JANITOR	TC	TC	GWB	FRP	GWB	FRP	GWB	FRP	GWB	FRP	GWB	FRP	1 HR RATED CEILING	
151	VESTIBULE	ST-1	WD/PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-2		
152	MEN	CT-1	CT-1	CT-2	--	CT-1	--	CT-1	--	CT-1	--	GWB	PT-2		
153	WOMEN	CT-1	CT-1	CT-1	--	CT-1	--	CT-2	--	CT-1	--	GWB	PT-2		
SECOND FLOOR															
201	REF. DESK	CPT-1	*	--	--	GL/GWB	PT-1	GL/GWB	PT-1	GWB	PT-1	ACT/GWB	PT-2 +	(9) (11)	
202	REF. SHELVING	CPT-2	*	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	ACT DK	PT-2	(18)	
203	SEATING	*	*	*	*	*	*	*	*	*	*	*	*	SEE 202 REF SHELVING	
204	SEATING	*	*	*	*	*	*	*	*	*	*	*	*	SEE 202 REF SHELVING	
205	MAGS. & CNV & INTL. SHELVING	*	*	*	*	*	*	*	*	*	*	*	*	SEE 202 REF SHELVING	
206	PASSAGE	CPT-2	WD/PT-1	--	--	GWB	PT-1	--	--	GWB	PT-1	GWB	PT-2		
207	NOT USED														
208	WOMEN	CT-1	CT-1	CT-2	--	CT-1	--	CT-1	--	CT-1	--	GWB	PT-2		
209	MEN	CT-1	CT-1	CT-1	--	CT-1	--	CT-2	--	CT-1	--	GWB	PT-2		
210	ELEC. ROOM	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(3)	
211	L.D.F.	CONC W/SLR	RB-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	EXP	--	(3)	
212	REF. ENCLOSED	CPT-2	*	GWB											

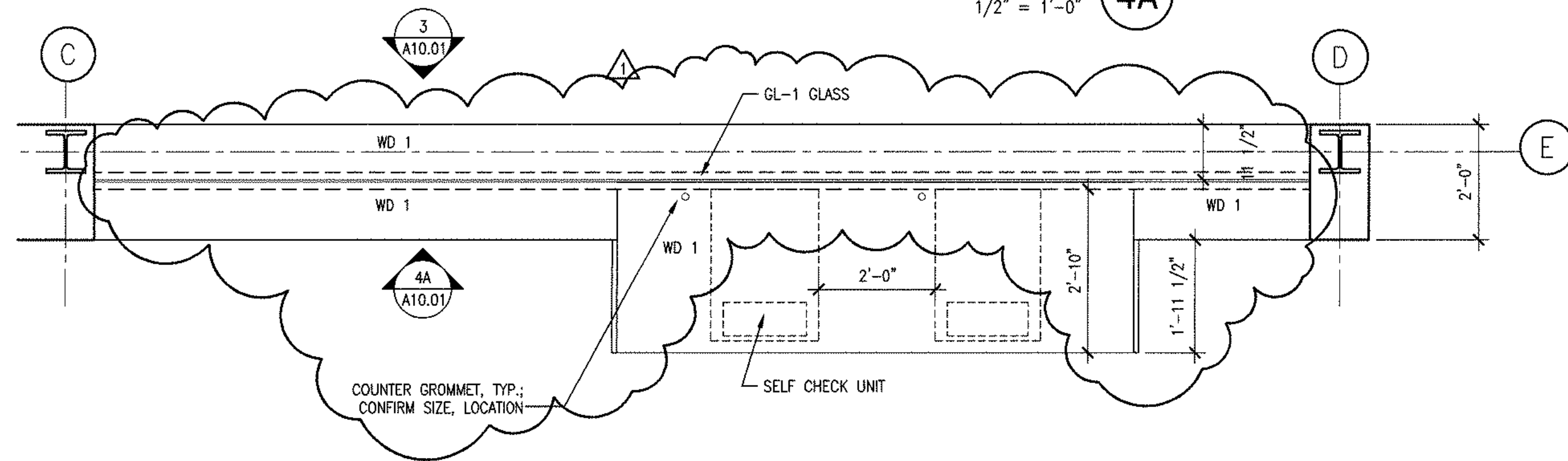


CASEWORK ELEVATION 4A
1/2" = 1'-0"

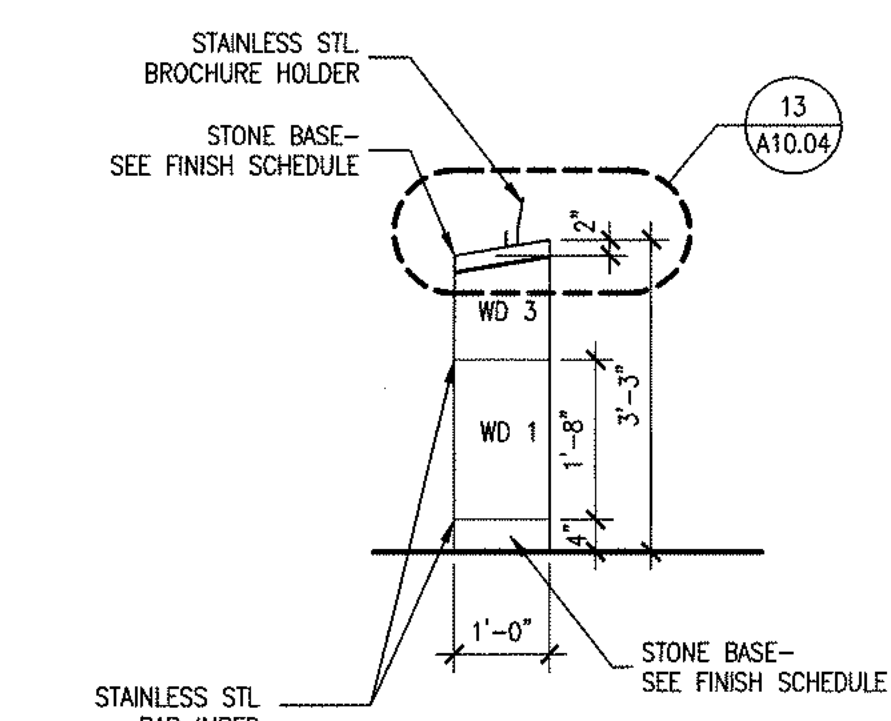


CASEWORK SECTION 4B
1/2" = 1'-0"

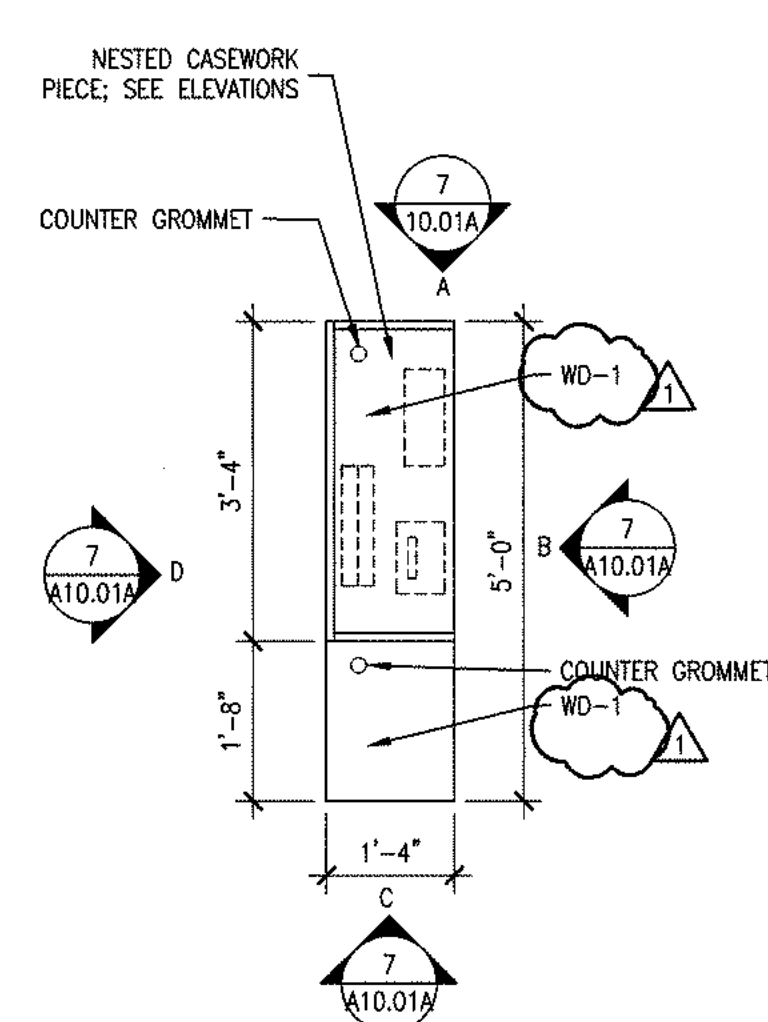
CASEWORK SECTION 4C
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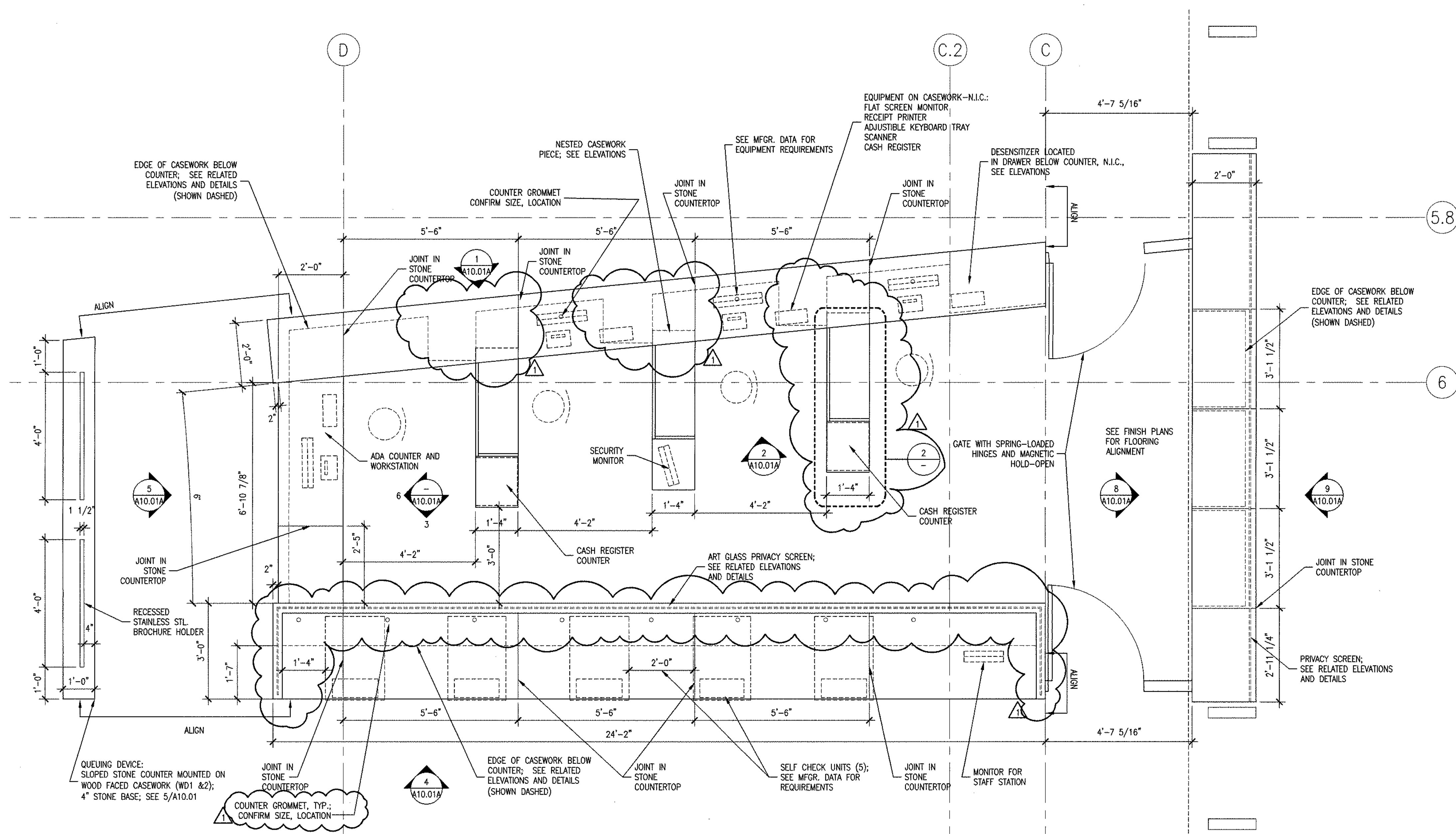
CASEWORK DETAIL 4
1/2" = 1'-0"



QUEUING DEVICE 5
1/2" = 1'-0"



CIRCULATION DESK RETURN-PLAN 2
1/2" = 1'-0"



CIRCULATION DESK PLAN 1
1/2" = 1'-0"

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SWMM architecture interiors planning graphic design

City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3353 F

Sandis Humber Jones
390 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
415 837 9800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415 398 3833 T
415 433 5311 F

Architectural Lighting Design
370 Branban Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

REVISIONS
2003.05.07 ADDENDUM NO. 1

11-29-04 Updated Contract Documents

stamp
LICENSED ARCHITECT
LAWRENCE A. SQUATTO
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

BID SET

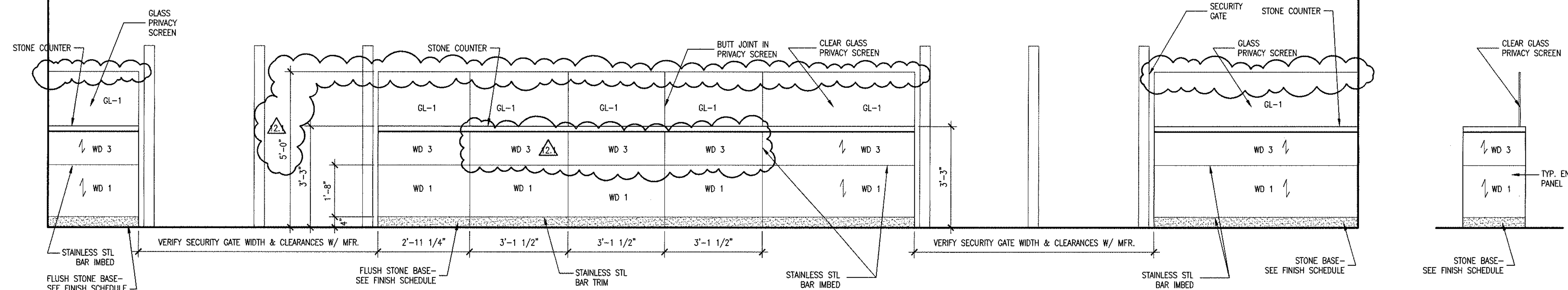
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DATE 2003.04.18
DRAWN BY GN PROJECT NUMBER 20114.00
SHEET NUMBER 11

CASEWORK DETAILS

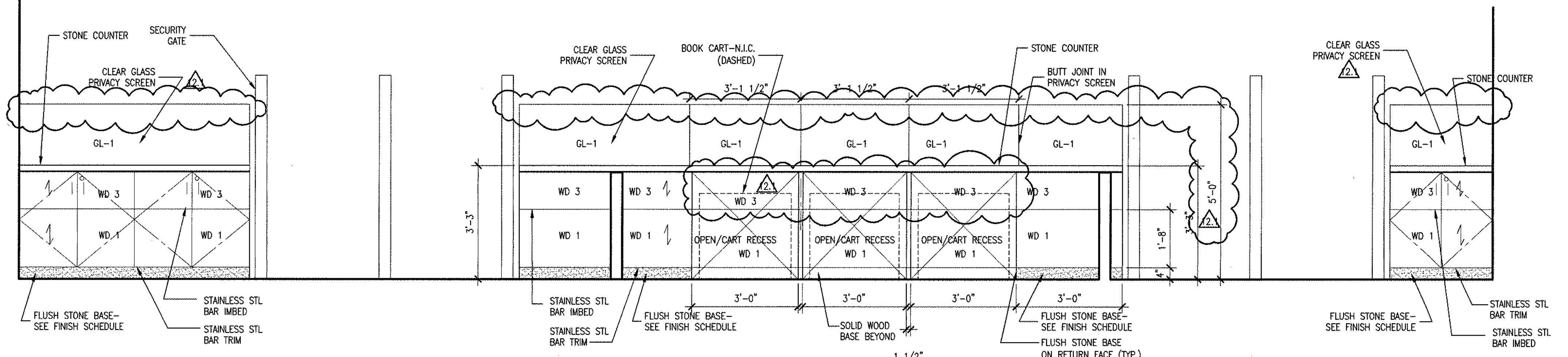
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SHEET NUMBER 11

A10.01

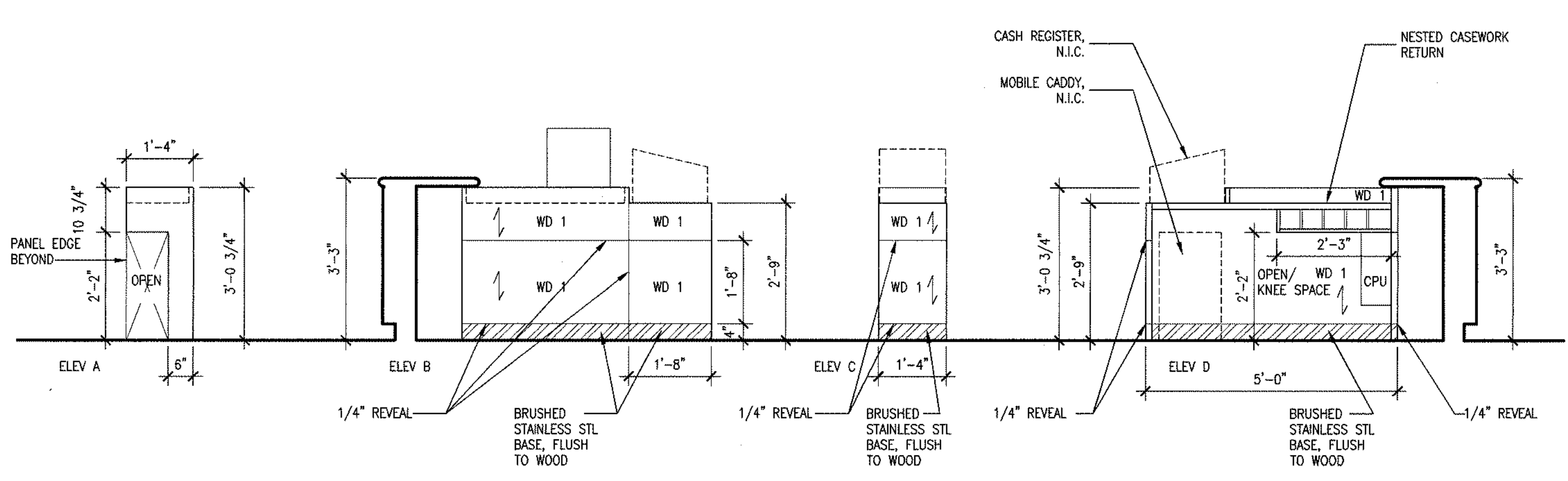
GENERAL NOTES:
 1. WOOD VENEER OR SOLID WOOD AT ALL EXPOSED SURFACES U.O.N.
 2. SEE A10.01 FOR CIRC. DESK PLANS; SEE FLOOR PLANS FOR CONTEXT
 3. SEE MANUFACTURER'S DATA FOR ALL REQUIRED EQUIPMENT



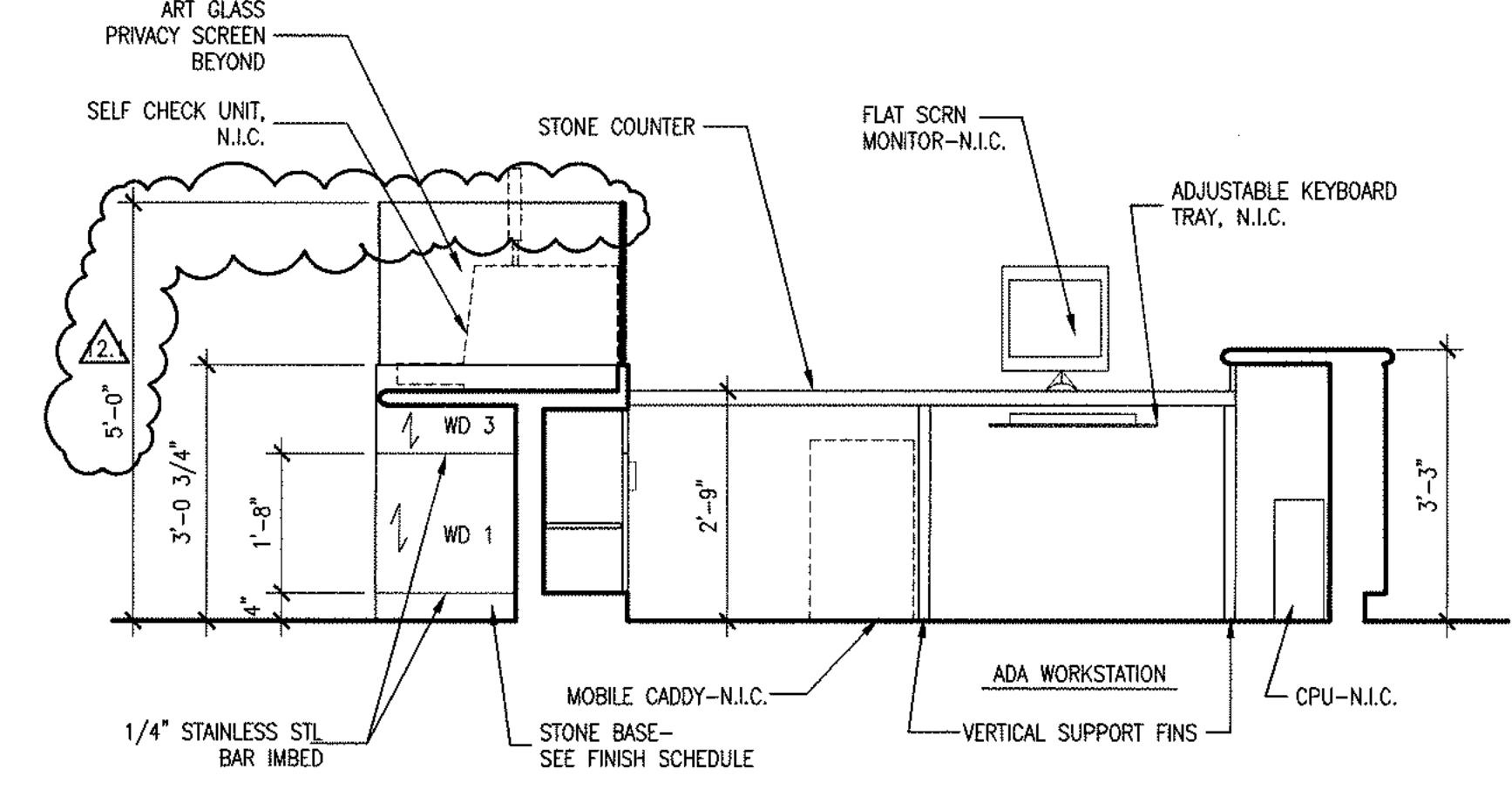
CIRCULATION DESK ELEVATION 9
 1/2" = 1'-0"



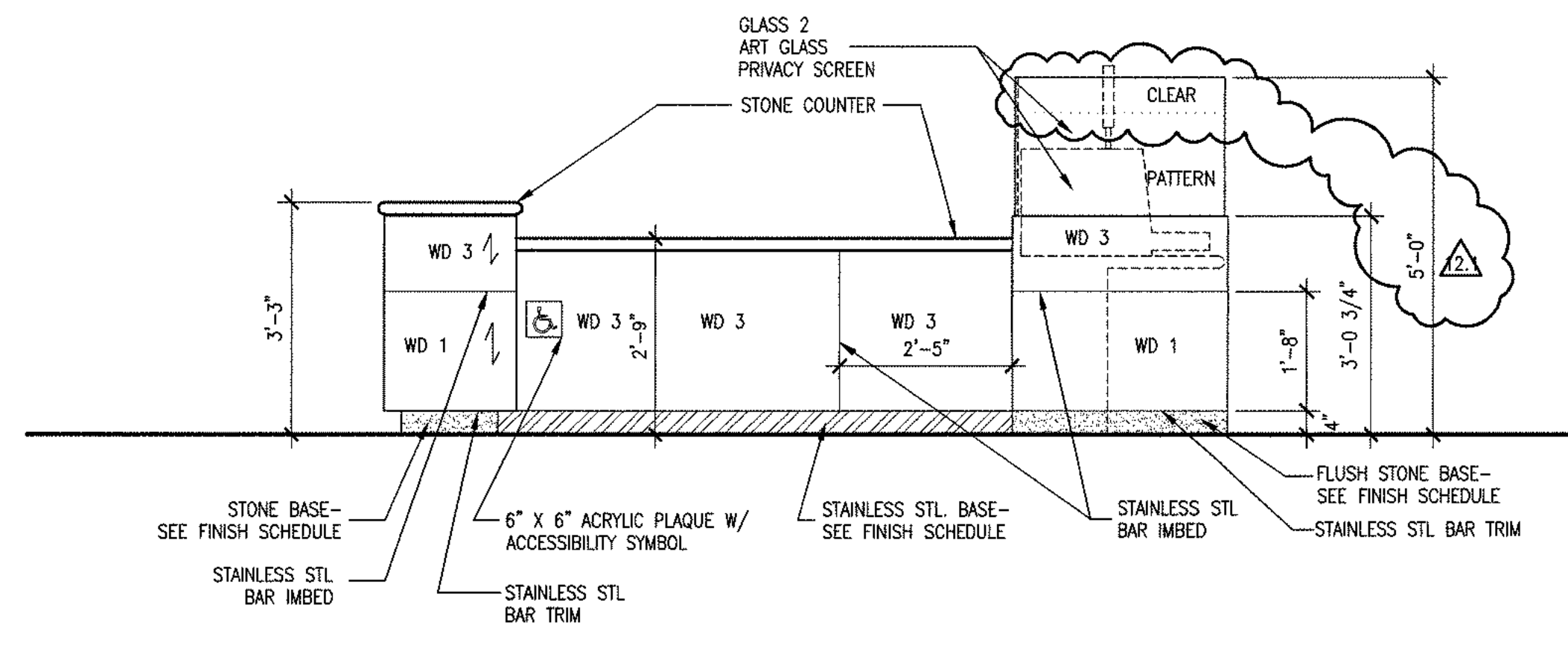
CIRCULATION DESK ELEVATION 8
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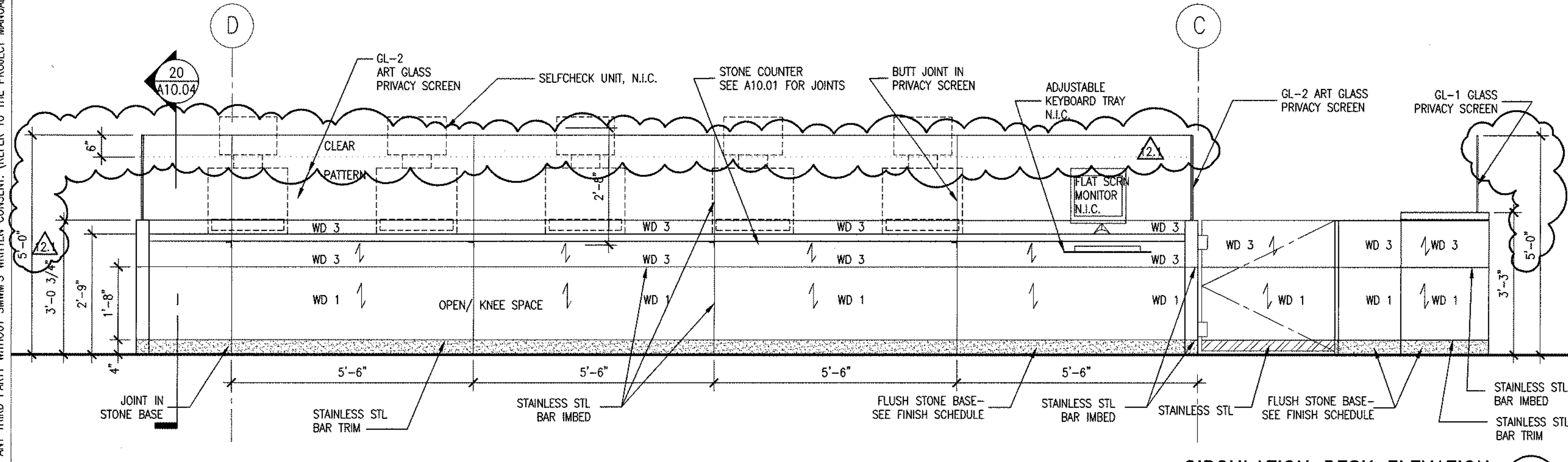
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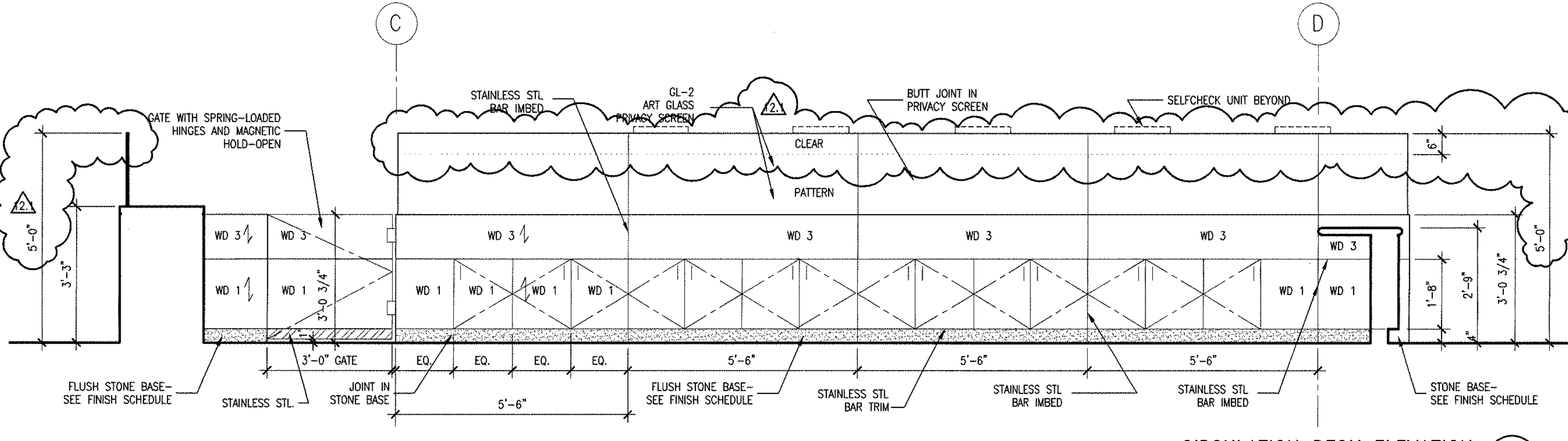
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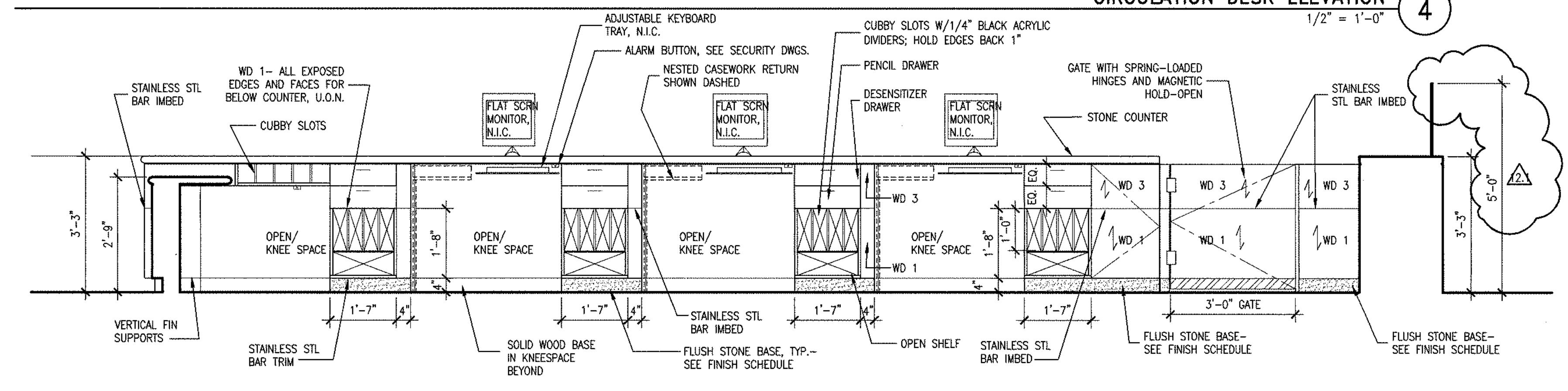
CIRCULATION DESK ELEVATION 5
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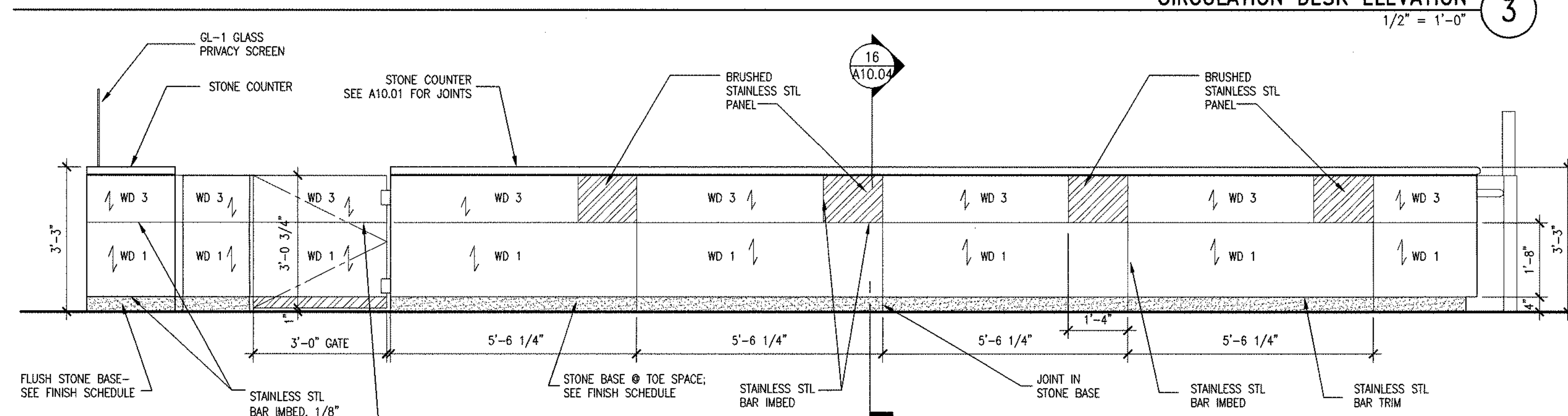
CIRCULATION DESK ELEVATION 4
 1/2" = 1'-0"



CIRCULATION DESK ELEVATION 3
 1/2" = 1'-0"



CIRCULATION DESK ELEVATION 2
 1/2" = 1'-0"



CIRCULATION DESK ELEVATION 1
 1/2" = 1'-0"

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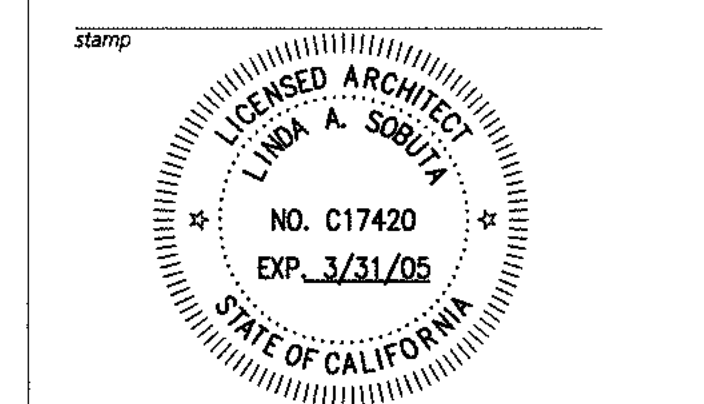
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revisions
 2003.05.07 ADDENDUM NO. 1
 2003.11.24 CCD 10.1

11-29-04 Updated Contract Documents



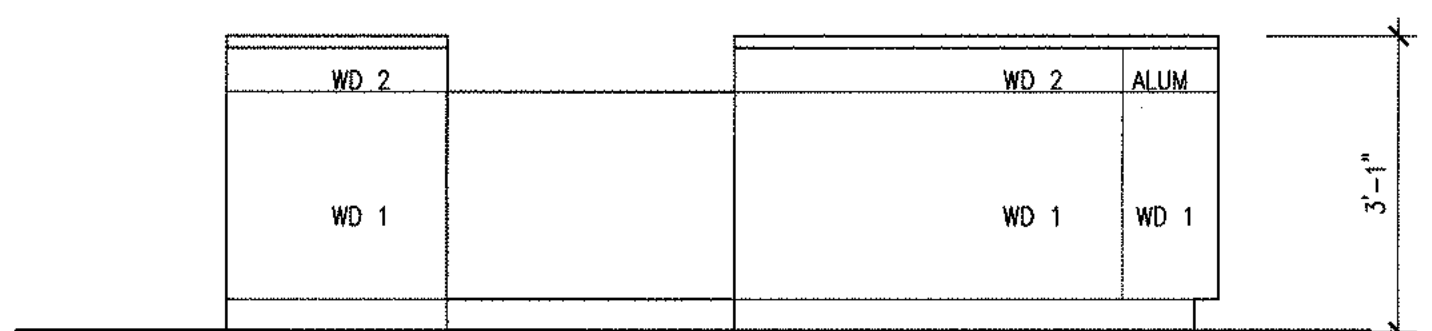
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CASEWORK DETAILS

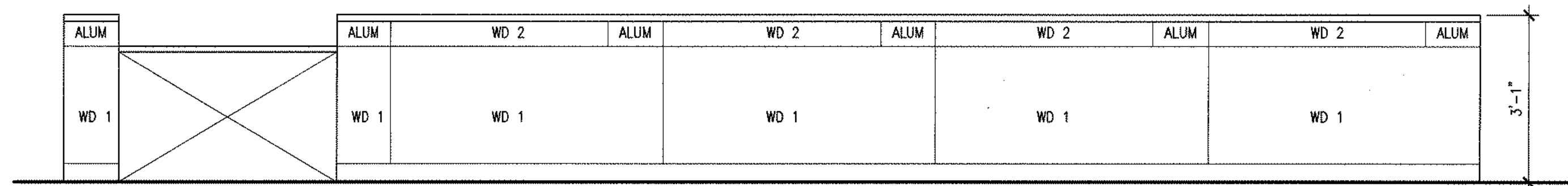
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 sheet number

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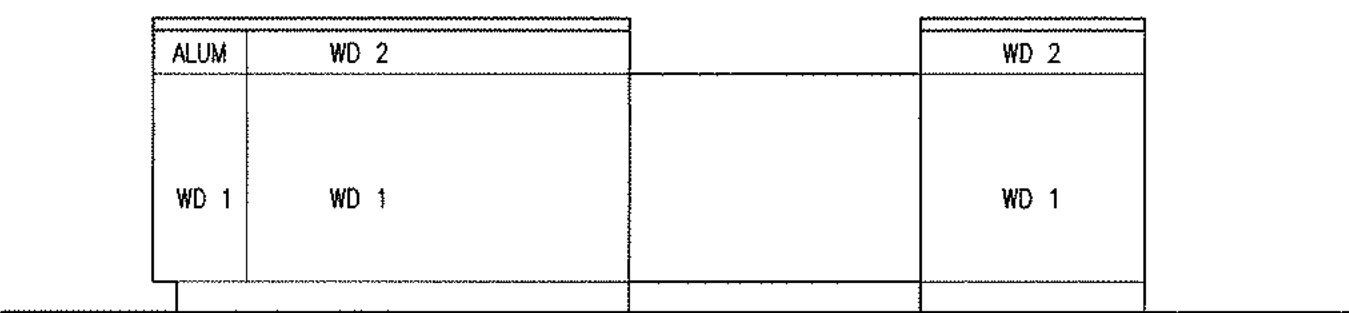
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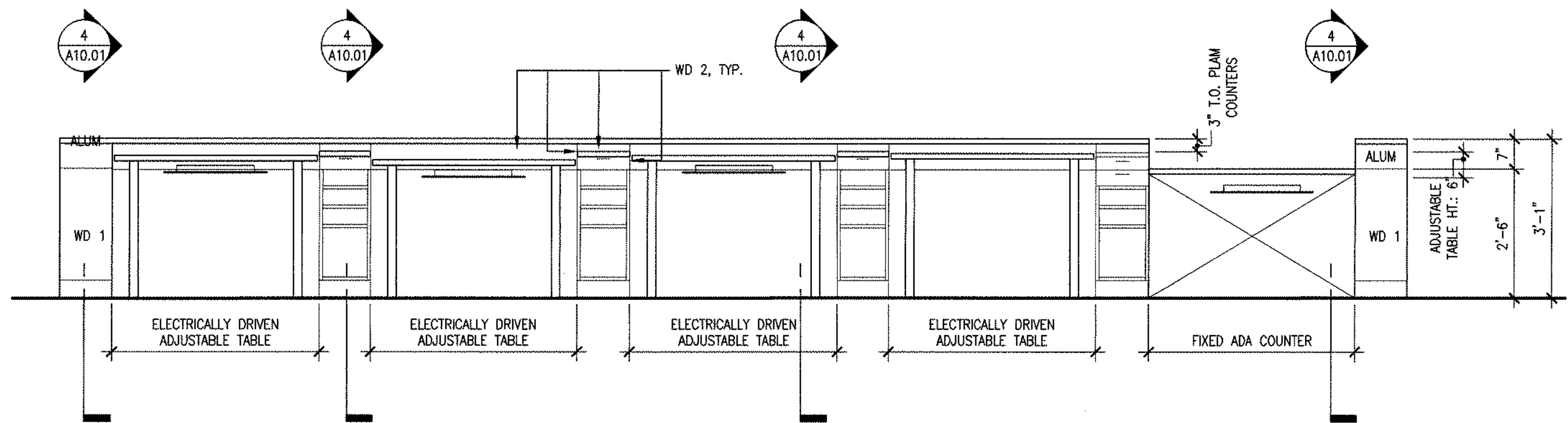
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1/2" = 1'-0" 14



REFERENCE DESK ELEVATION
1/2" = 1'-0" 8



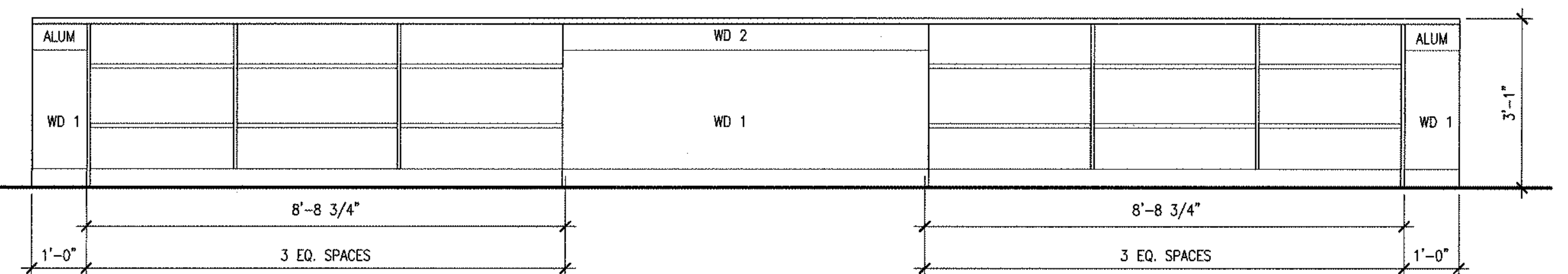
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1/2" = 1'-0" 13



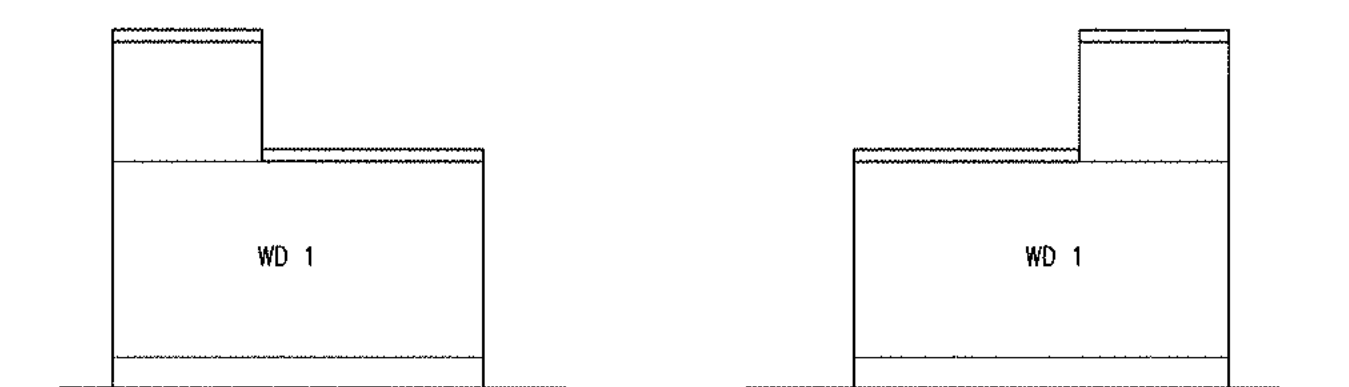
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1/2" = 1'-0" 7



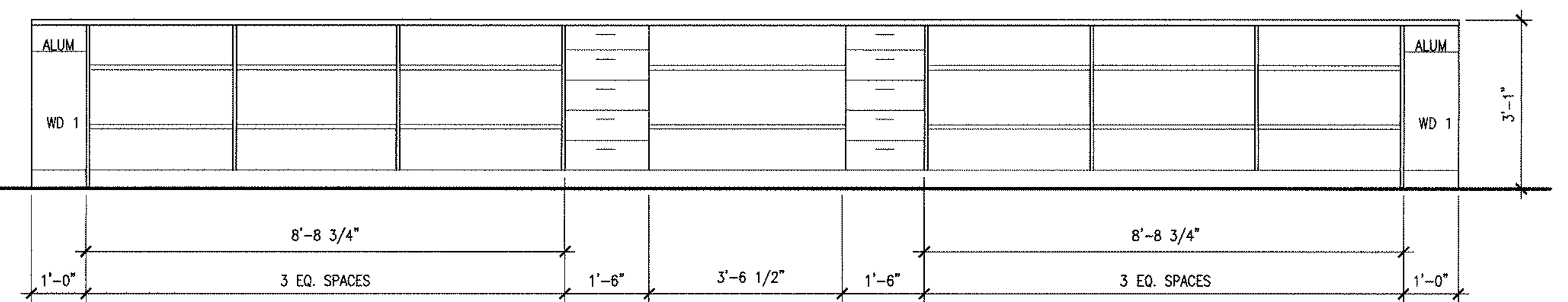
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1/2" = 1'-0" 12



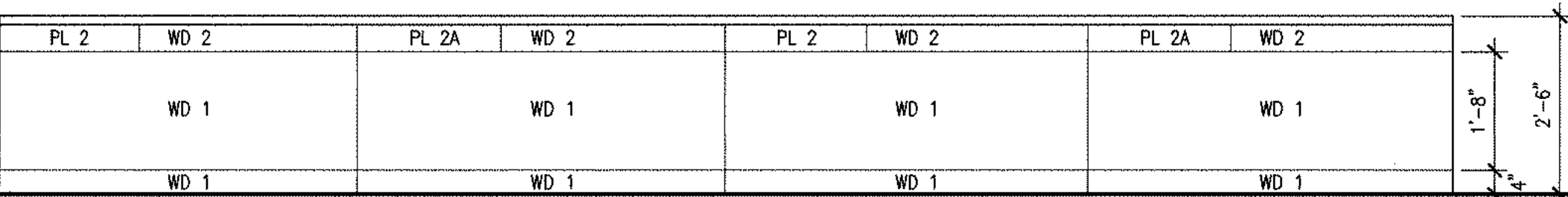
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1/2" = 1'-0" 6



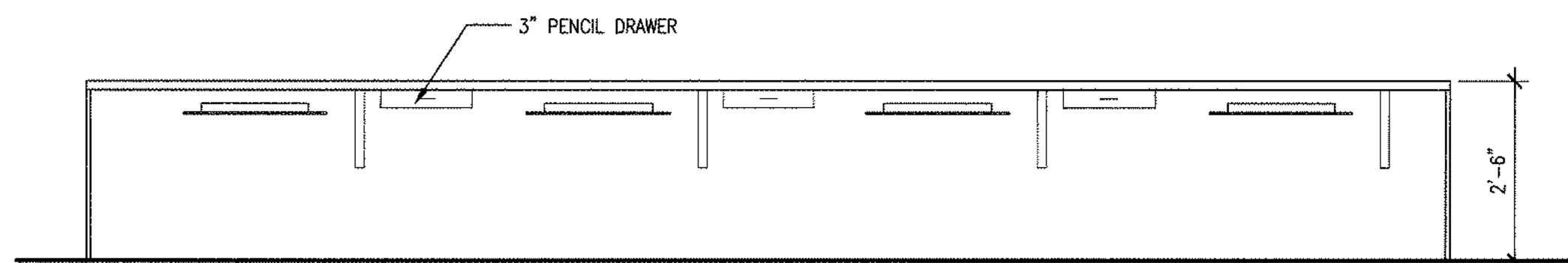
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1/2" = 1'-0" 11



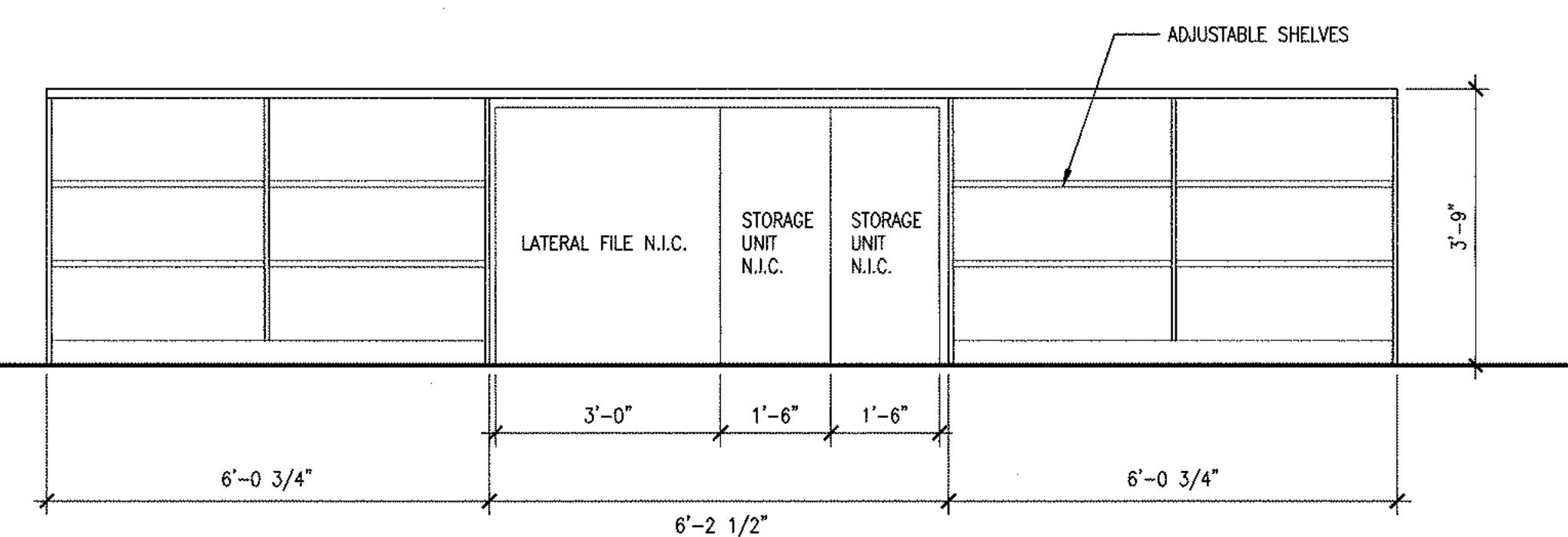
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1/2" = 1'-0" 5



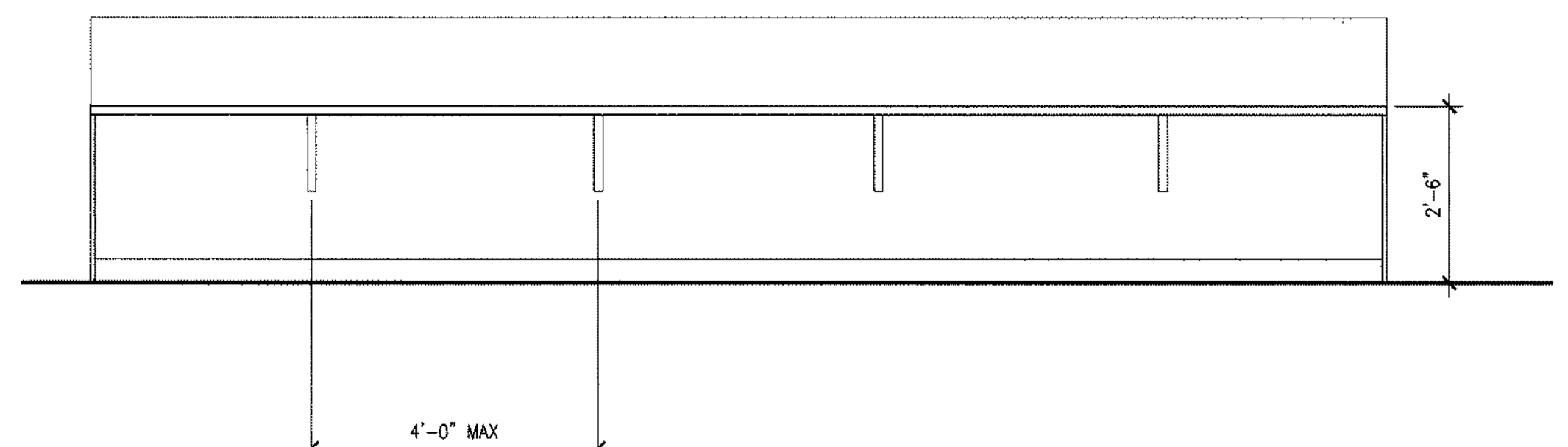
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1/2" = 1'-0" 10



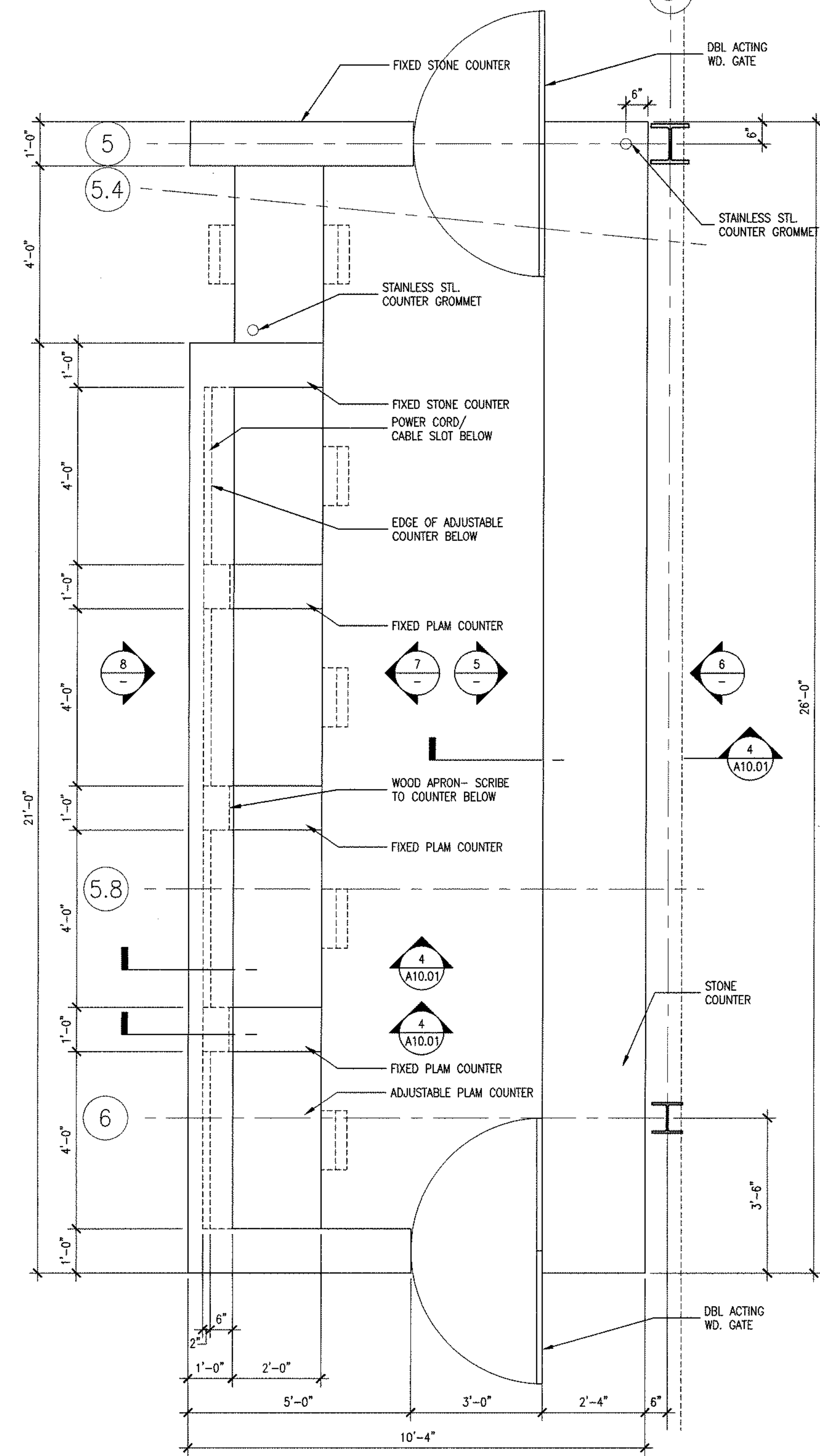
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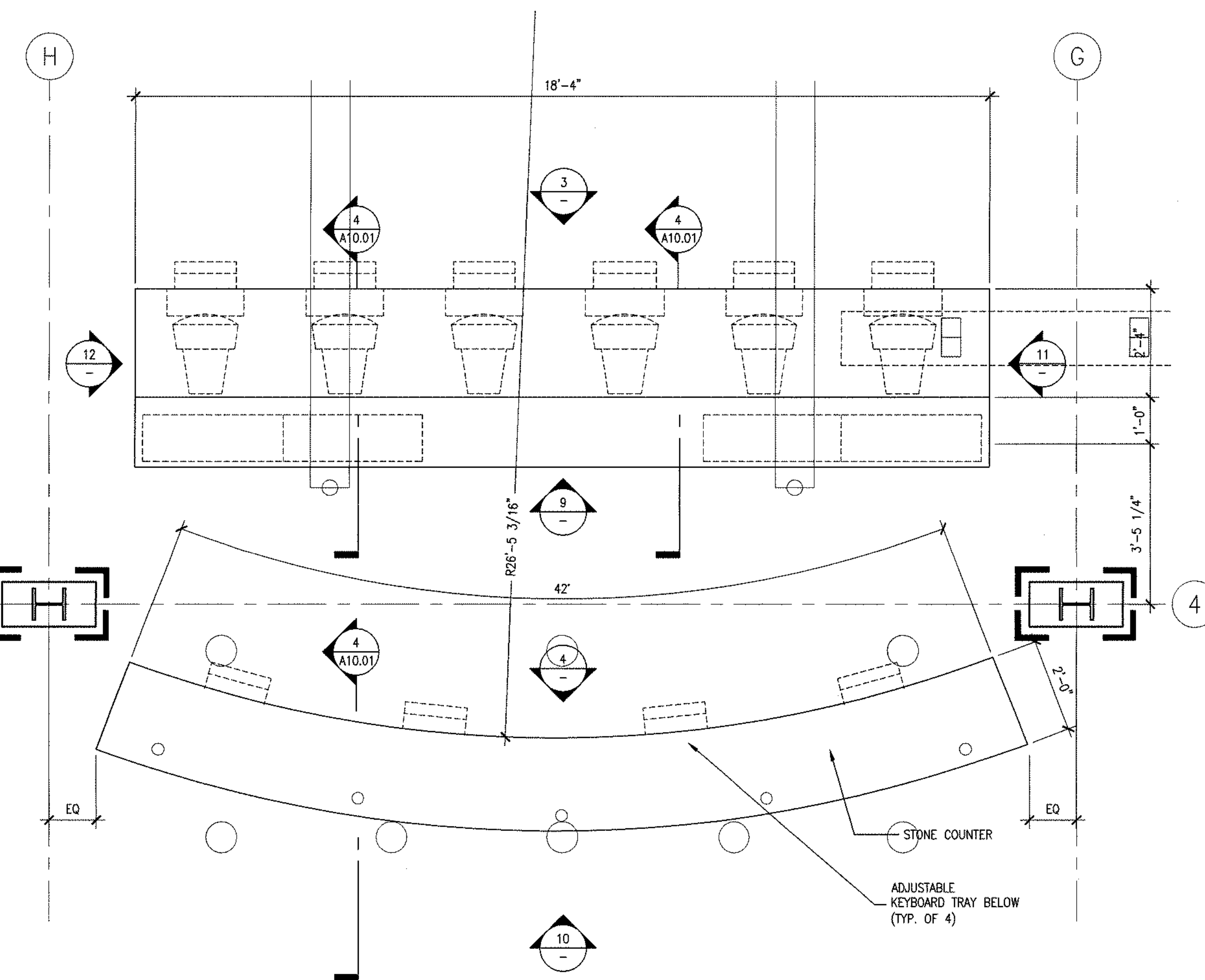
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1/2" = 1'-0" 9



CHILDREN'S DESK CREDENZA
1/2" = 1'-0" 3



REFERENCE DESK PLAN
1/2" = 1'-0" 2



CHILDREN'S DESK PLAN
1/2" = 1'-0" 1

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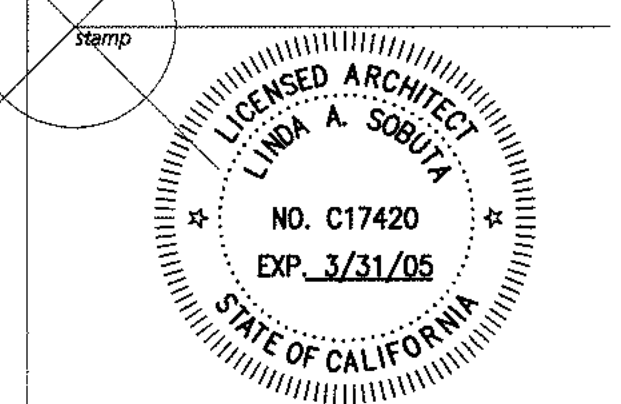
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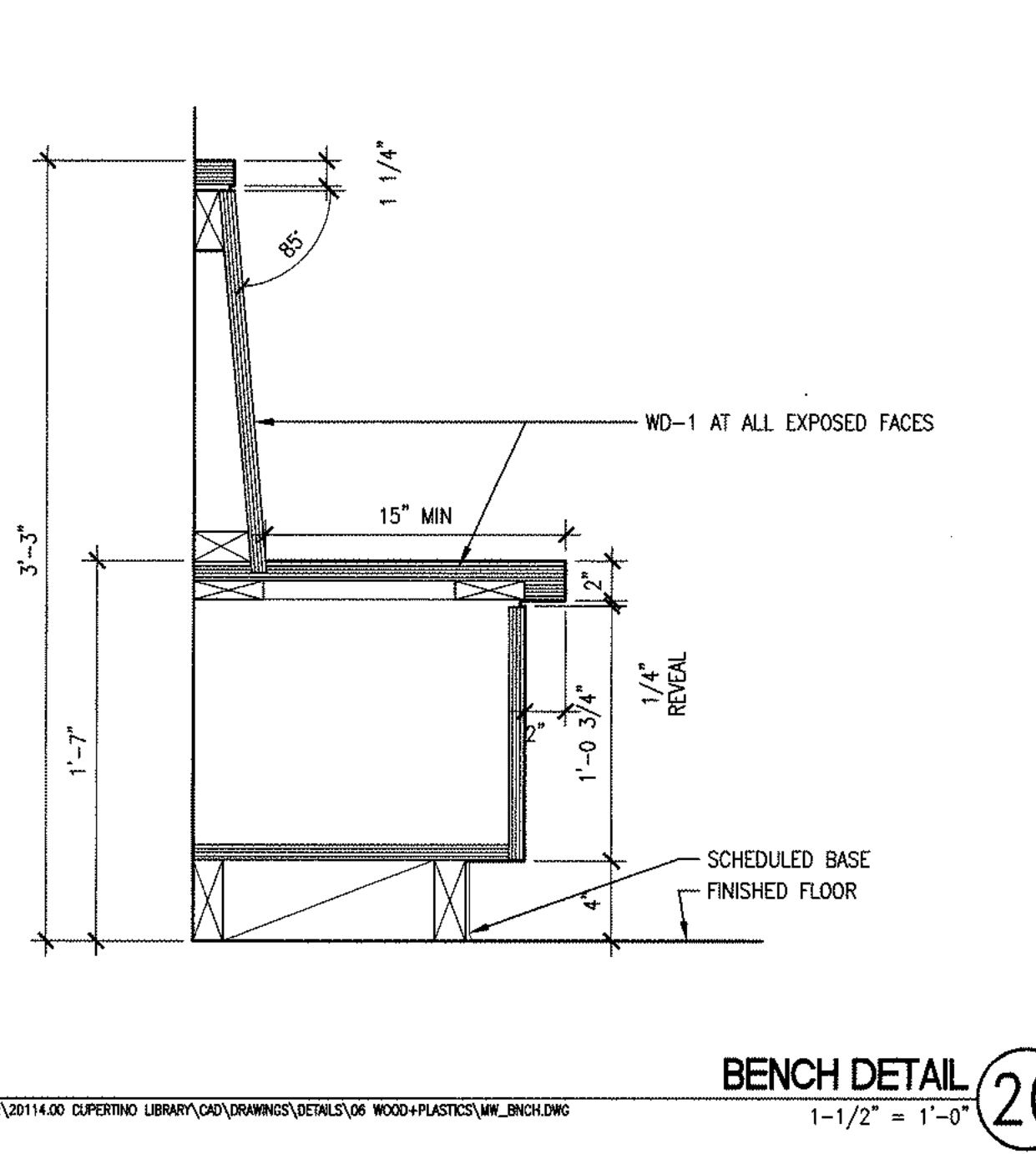


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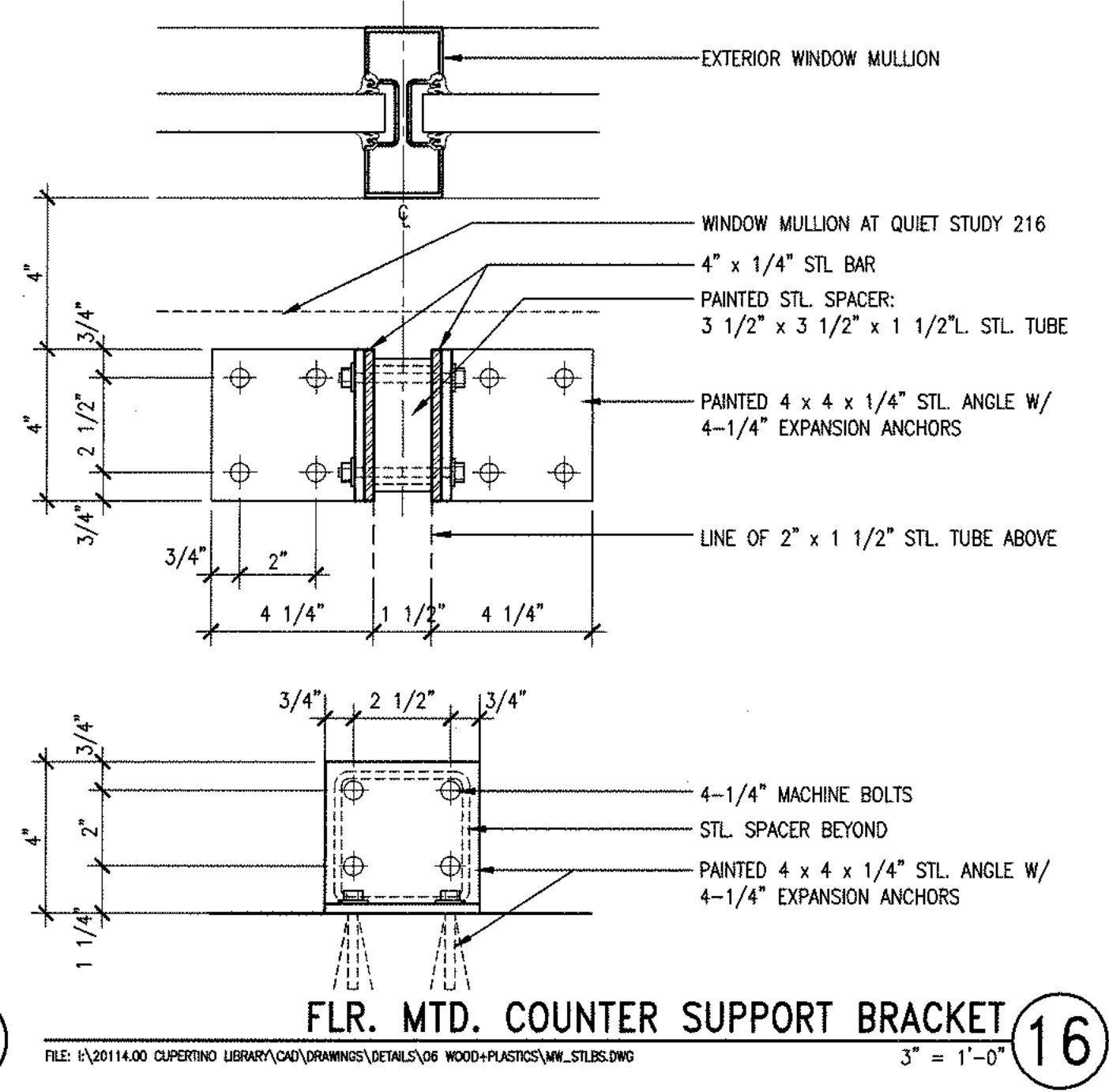
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sheet number:

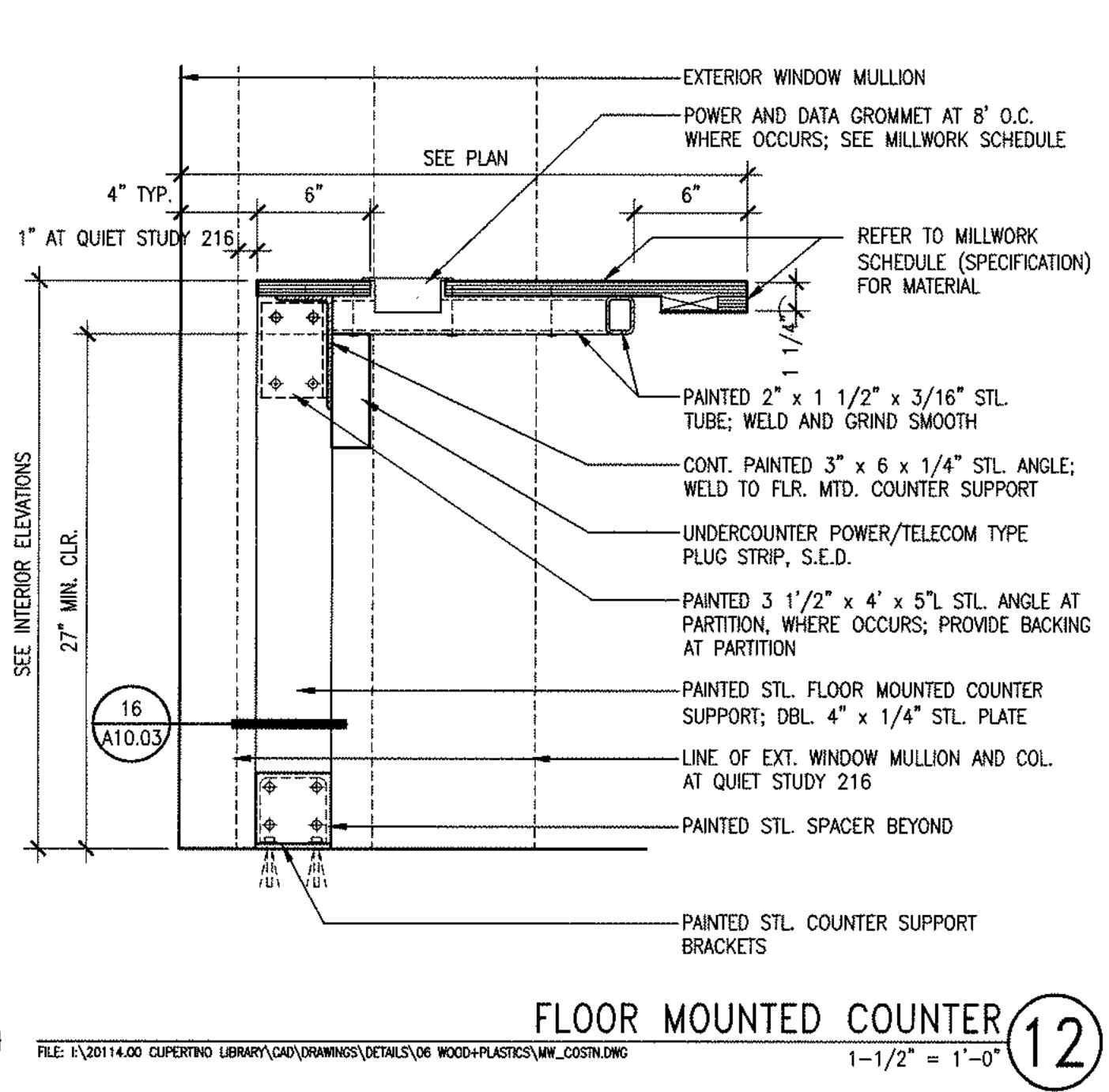
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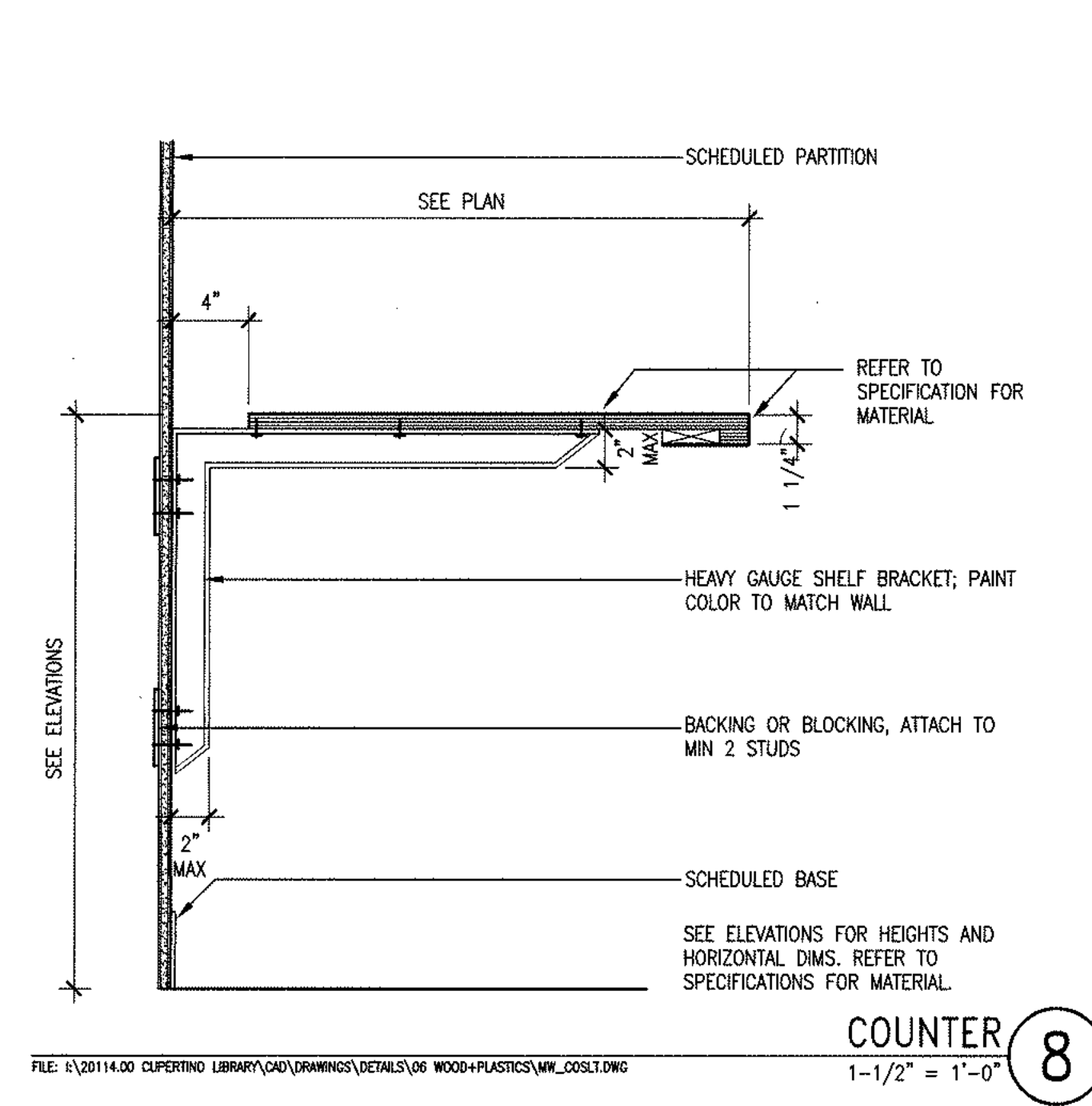
BENCH DETAIL 20
1-1/2" = 1'-0"



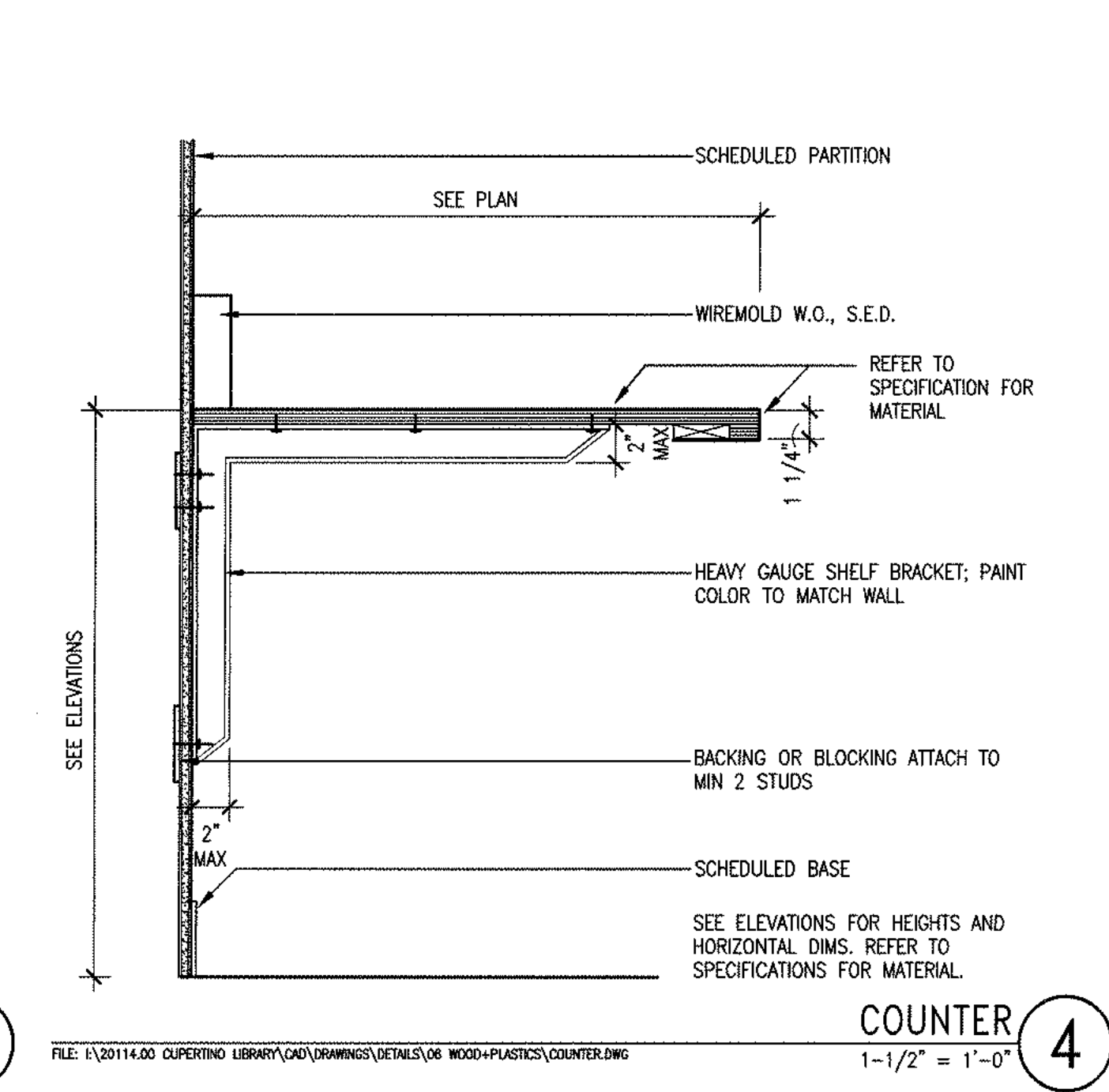
FLR. MTD. COUNTER SUPPORT BRACKET 16
3" = 1'-0"



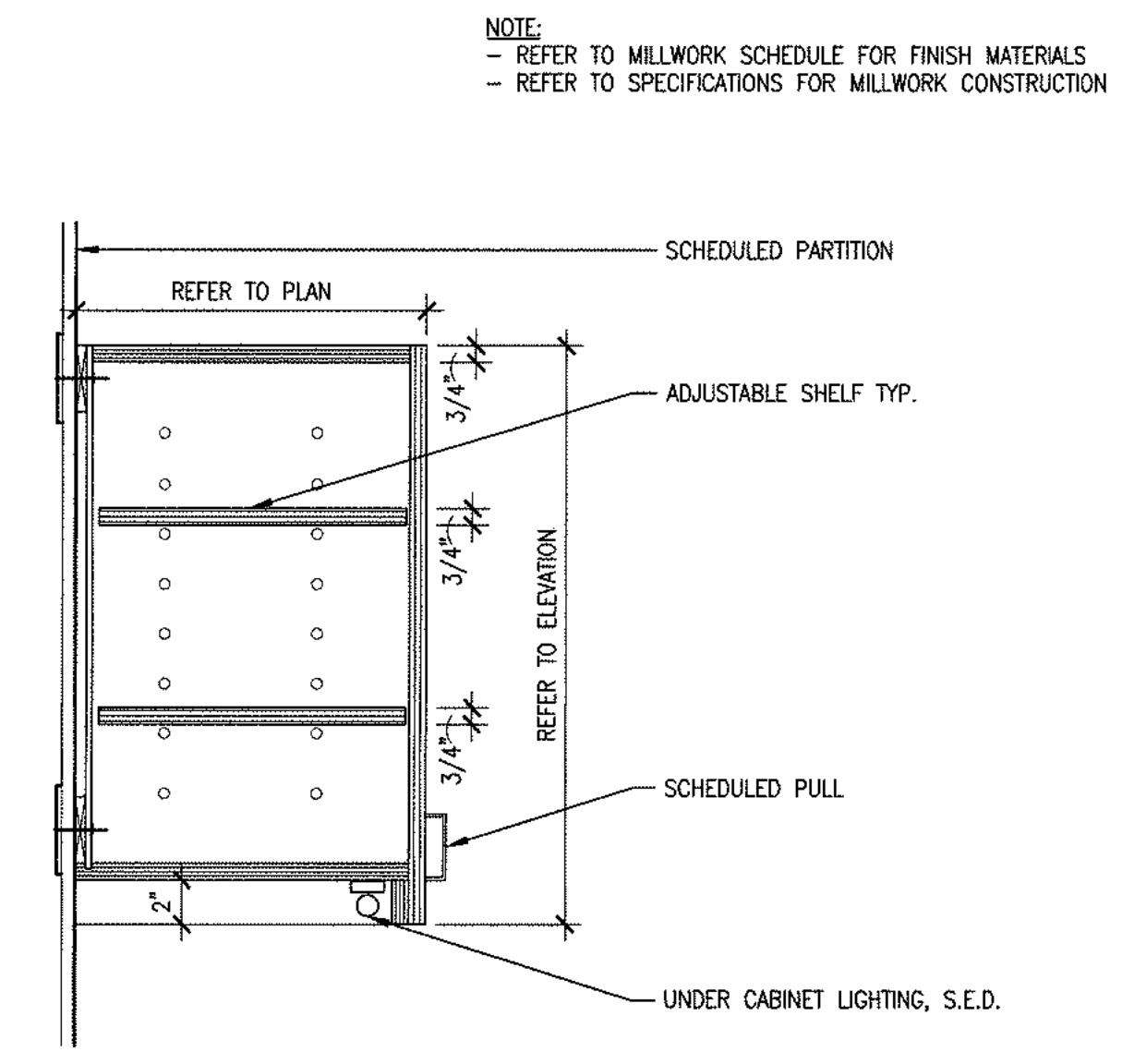
FLOOR MOUNTED COUNTER 12
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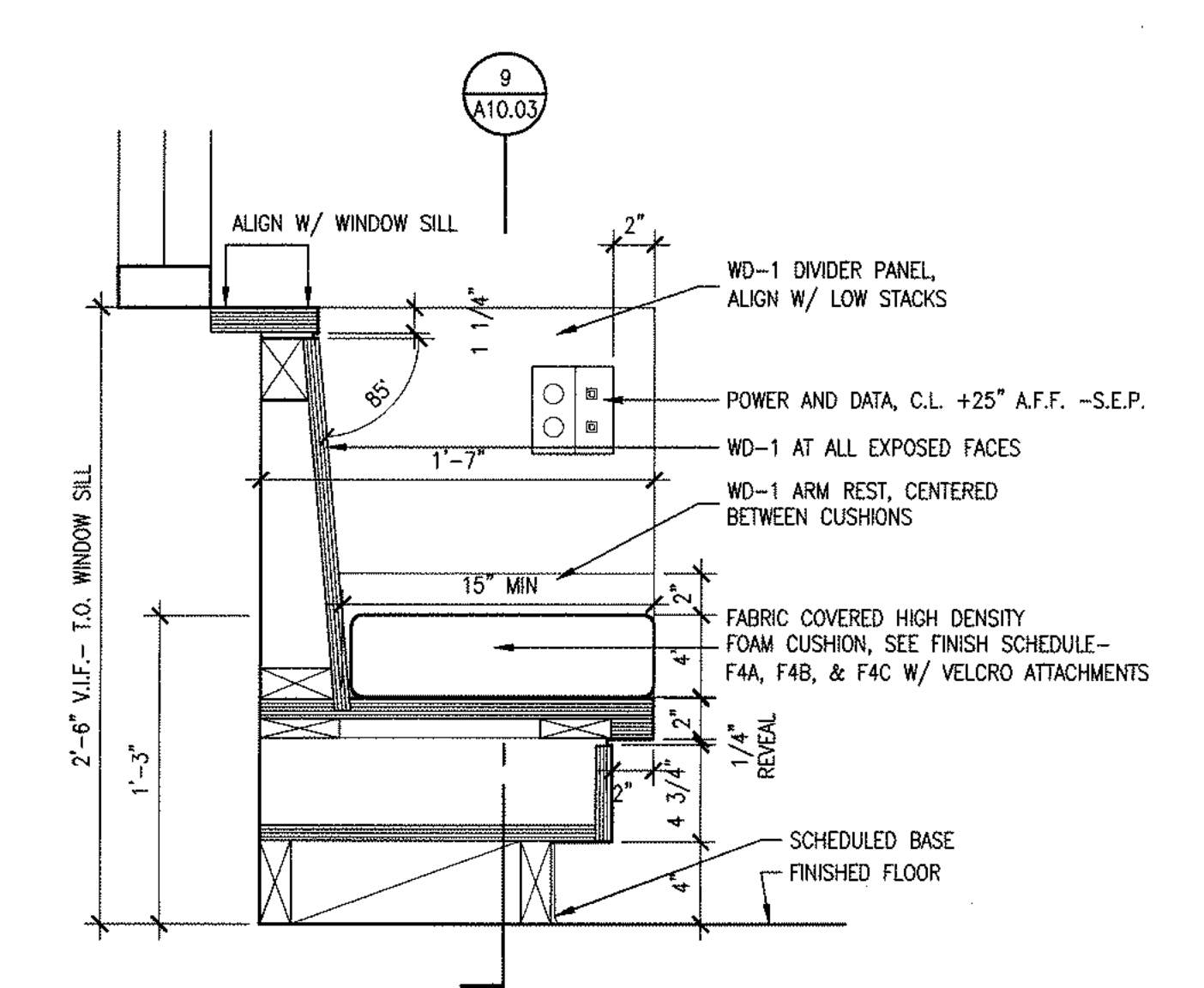
COUNTER 8
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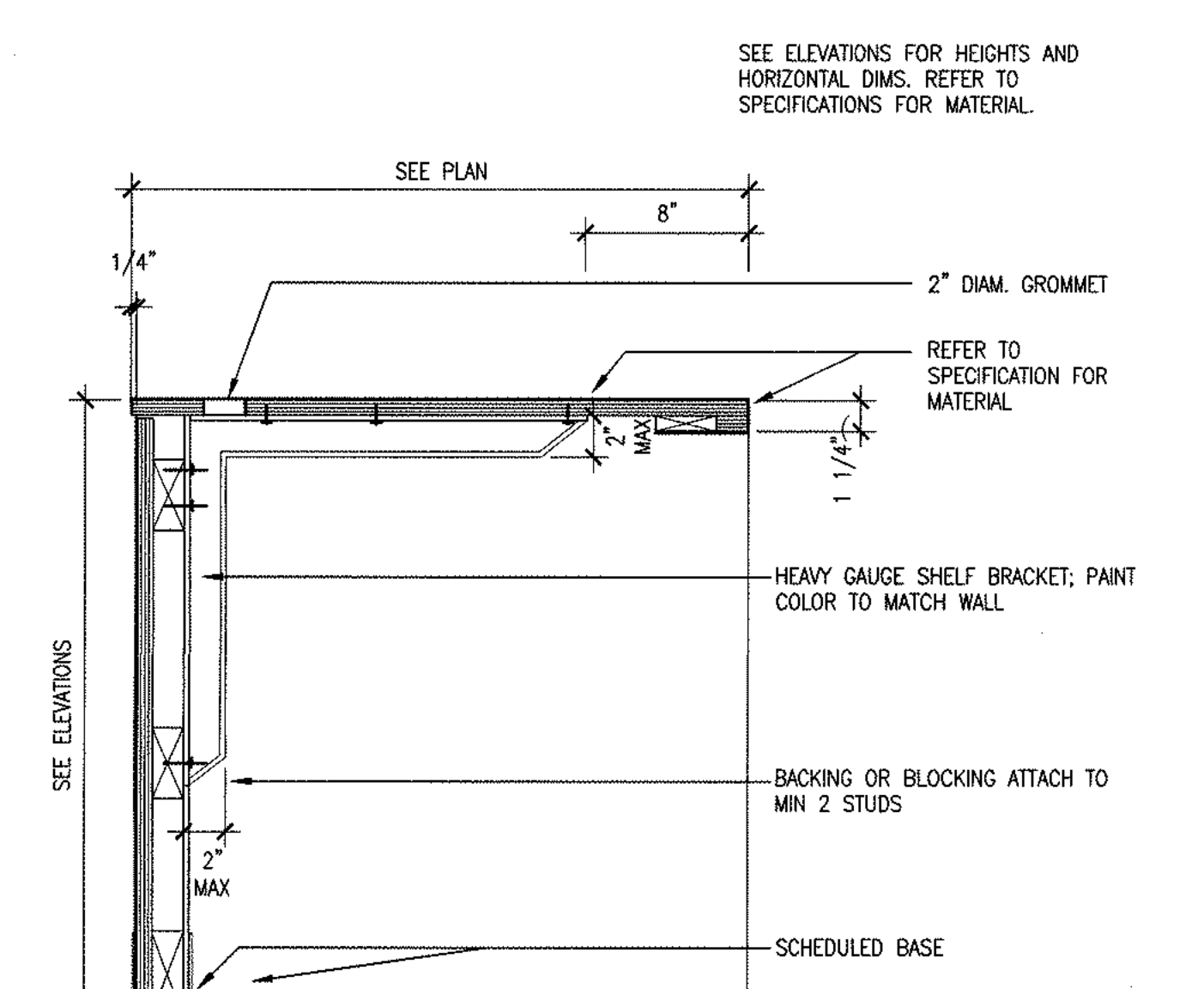
COUNTER 4
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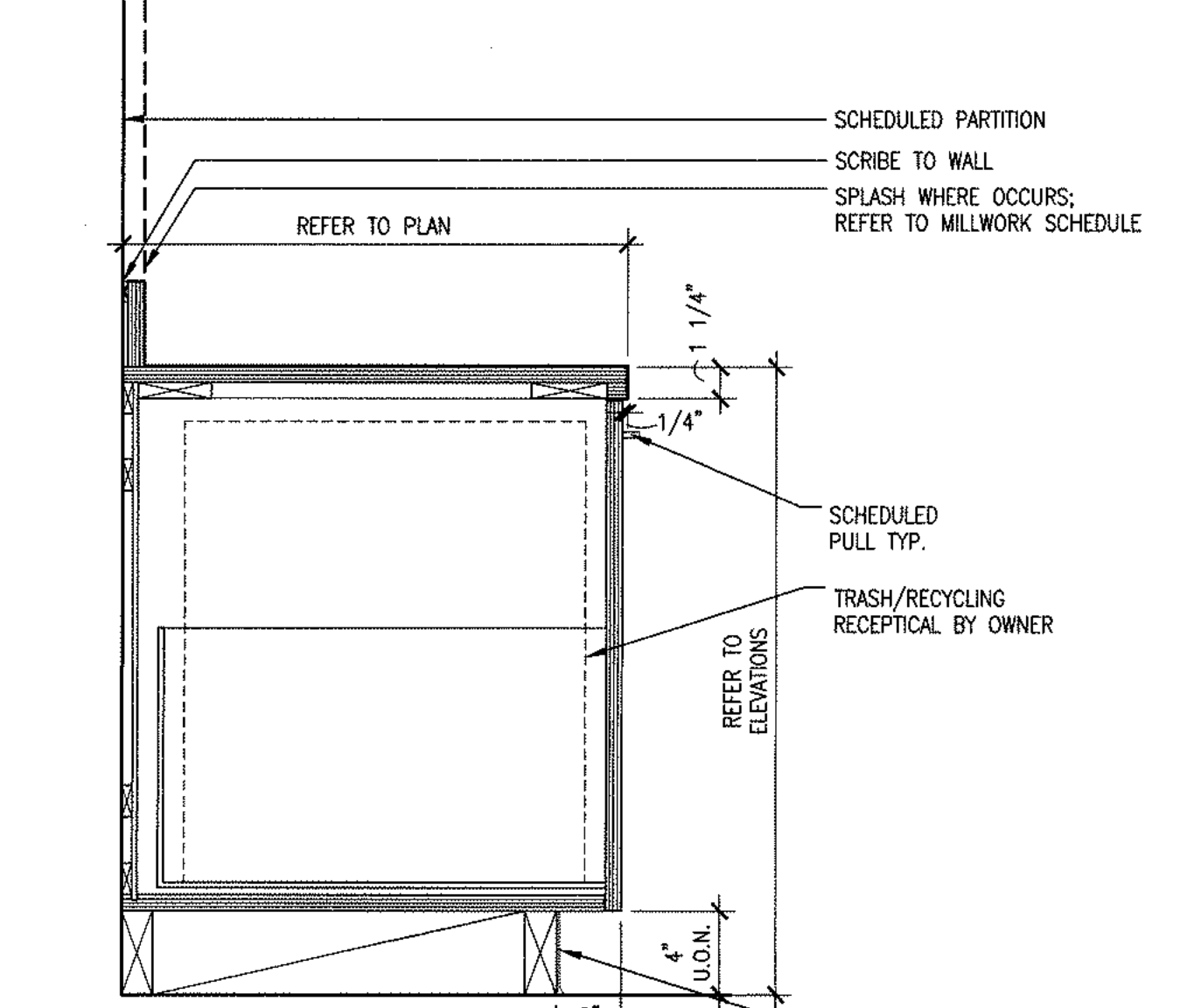
UPPER CABINET 19
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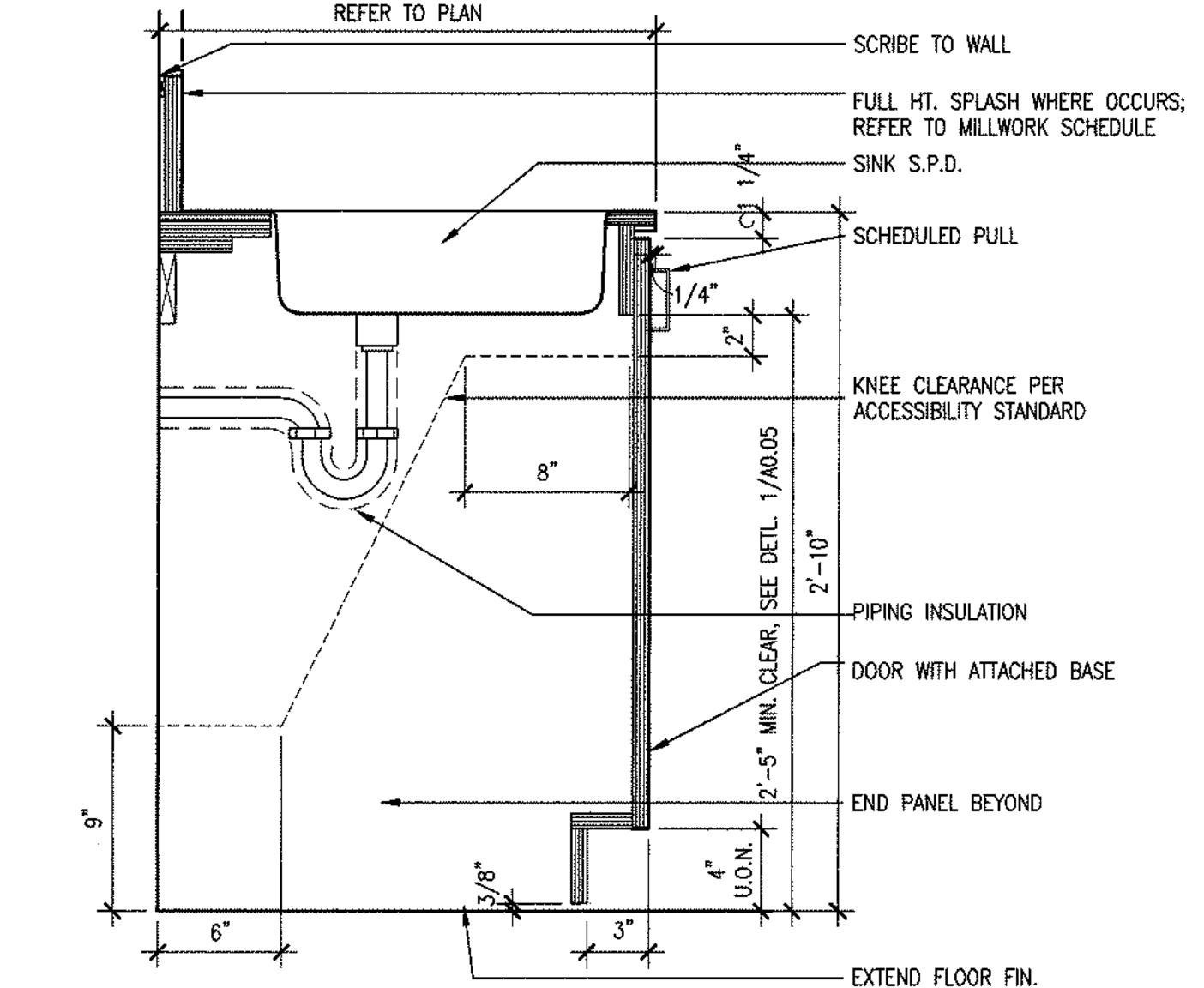
BENCH DETAIL 15
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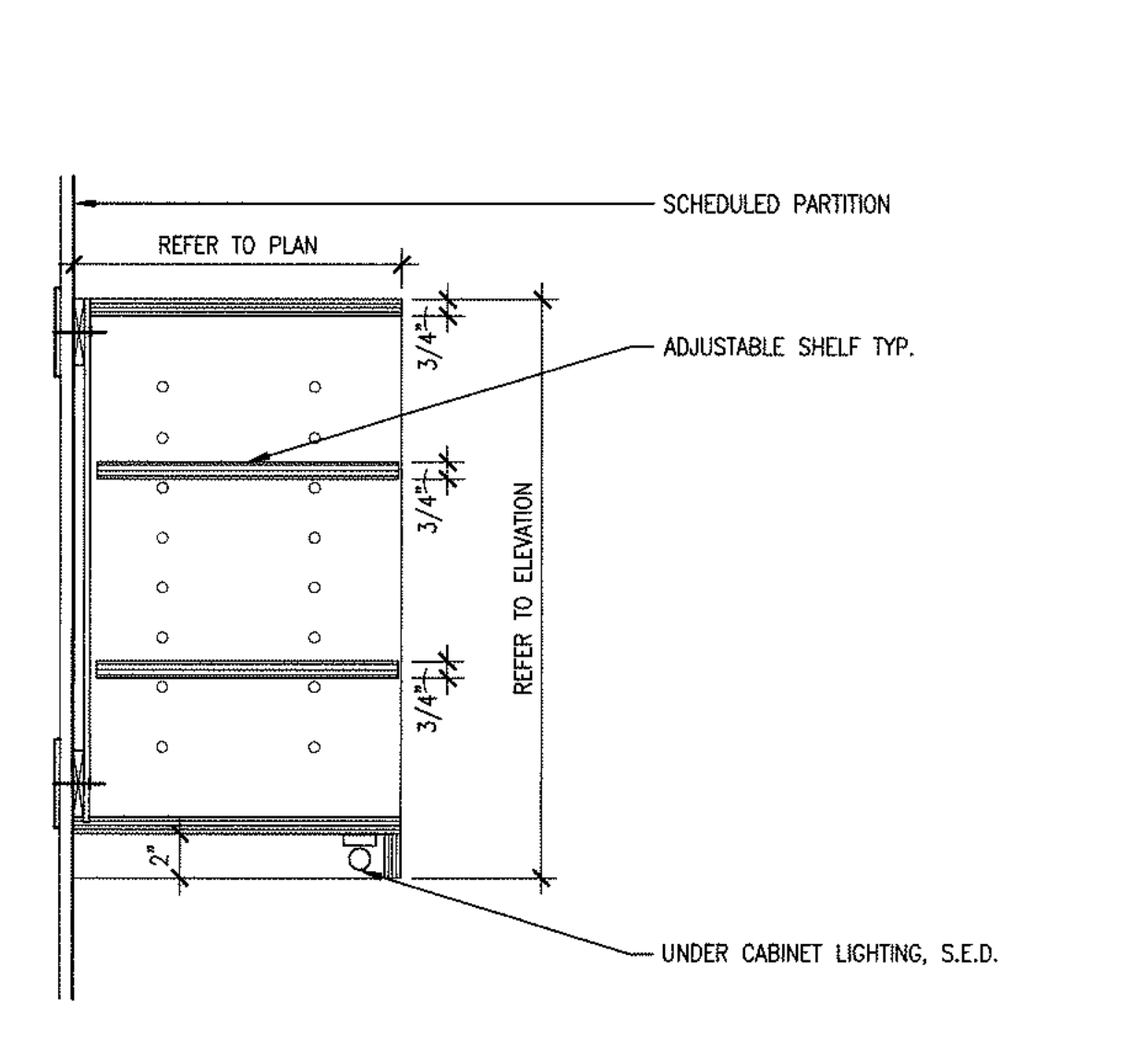
FREESTANDING COUNTER 11
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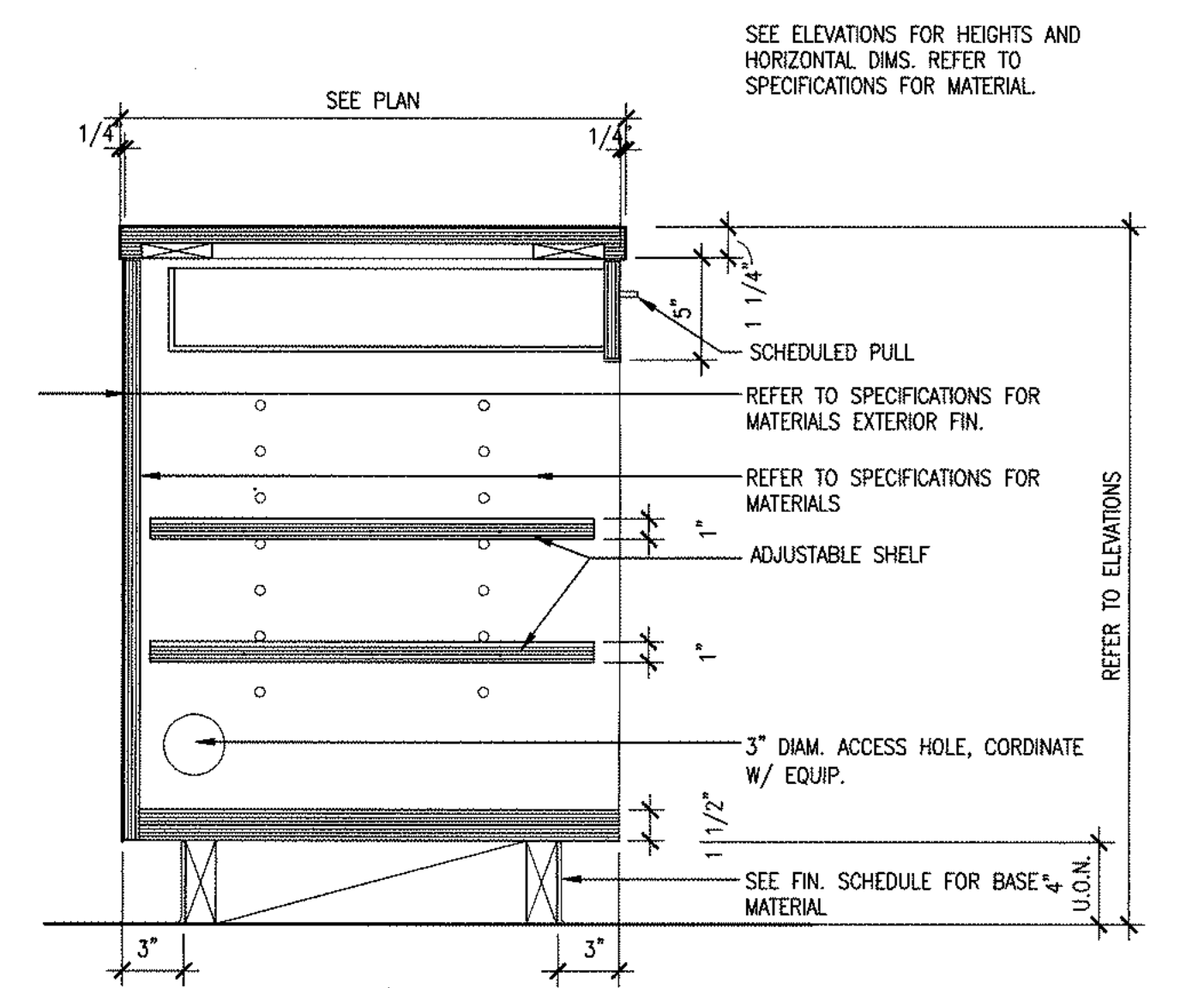
TRASH/RECYCLING ROLL-OUT BASE CABINET 7
1-1/2" = 1'-0"



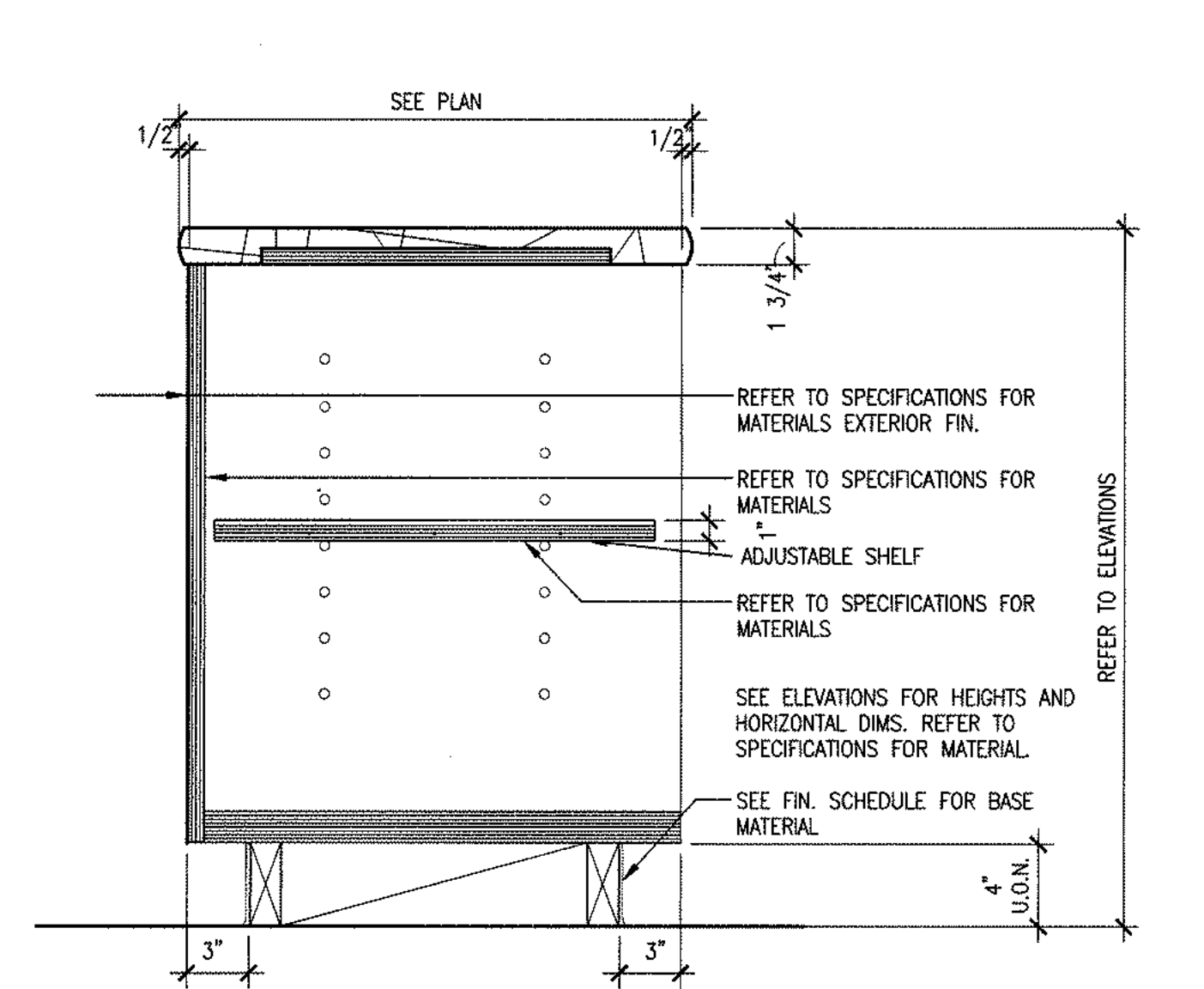
ADA SINK BASE CABINET 3
1-1/2" = 1'-0"



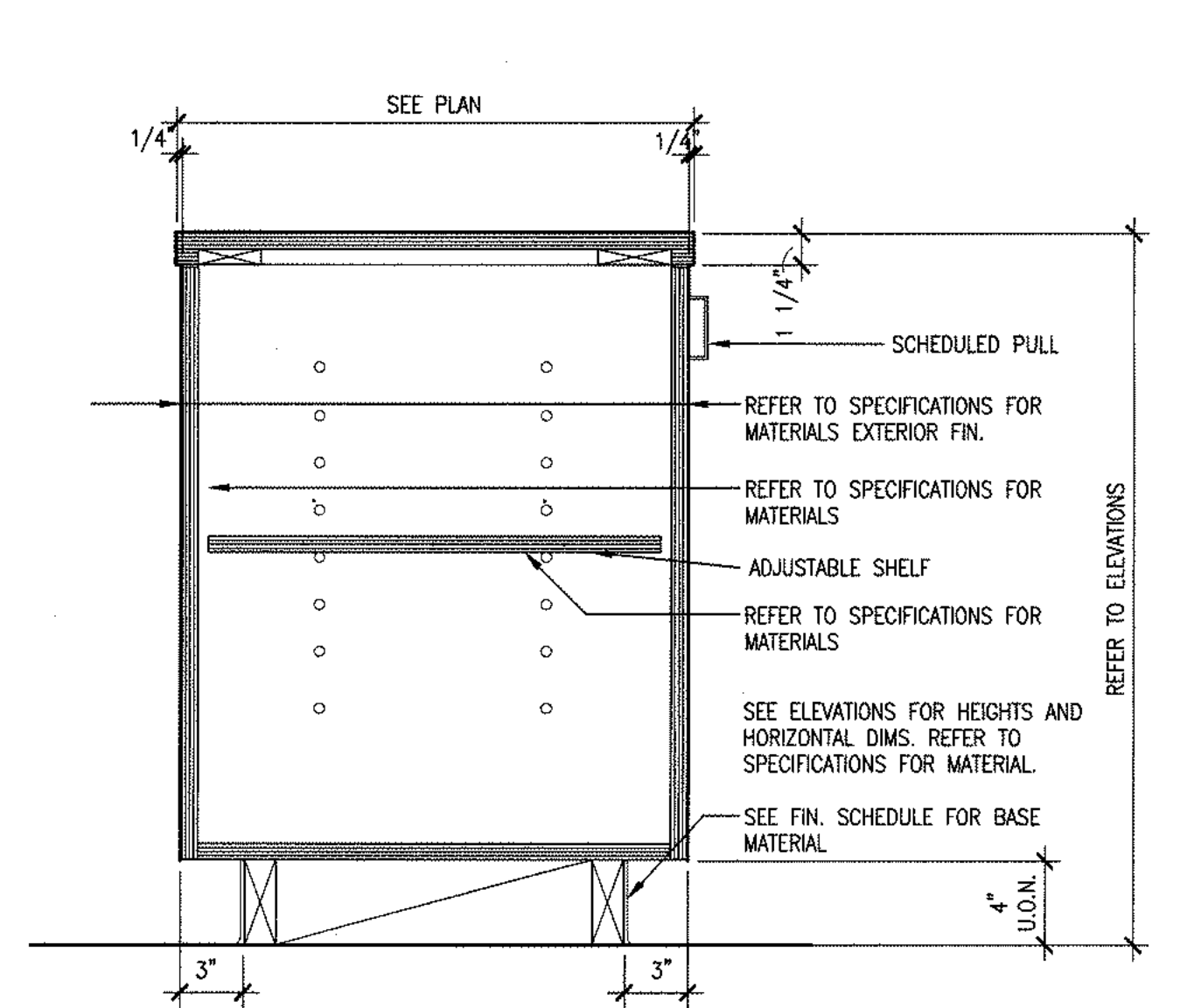
UPPER CABINET 18
1-1/2" = 1'-0"



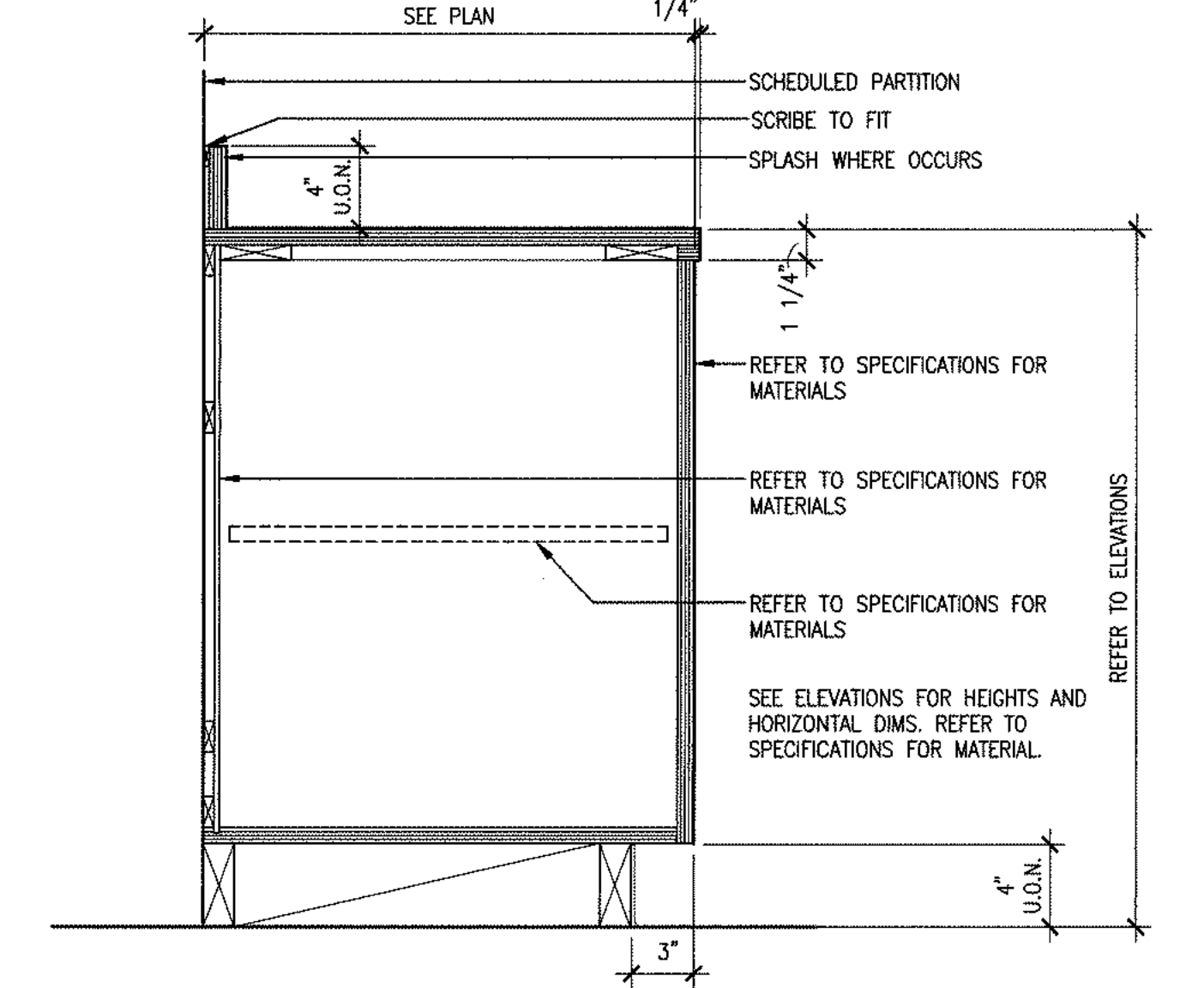
FREESTANDING OPEN CABINET- SINGLE DRAWER 14
1-1/2" = 1'-0"



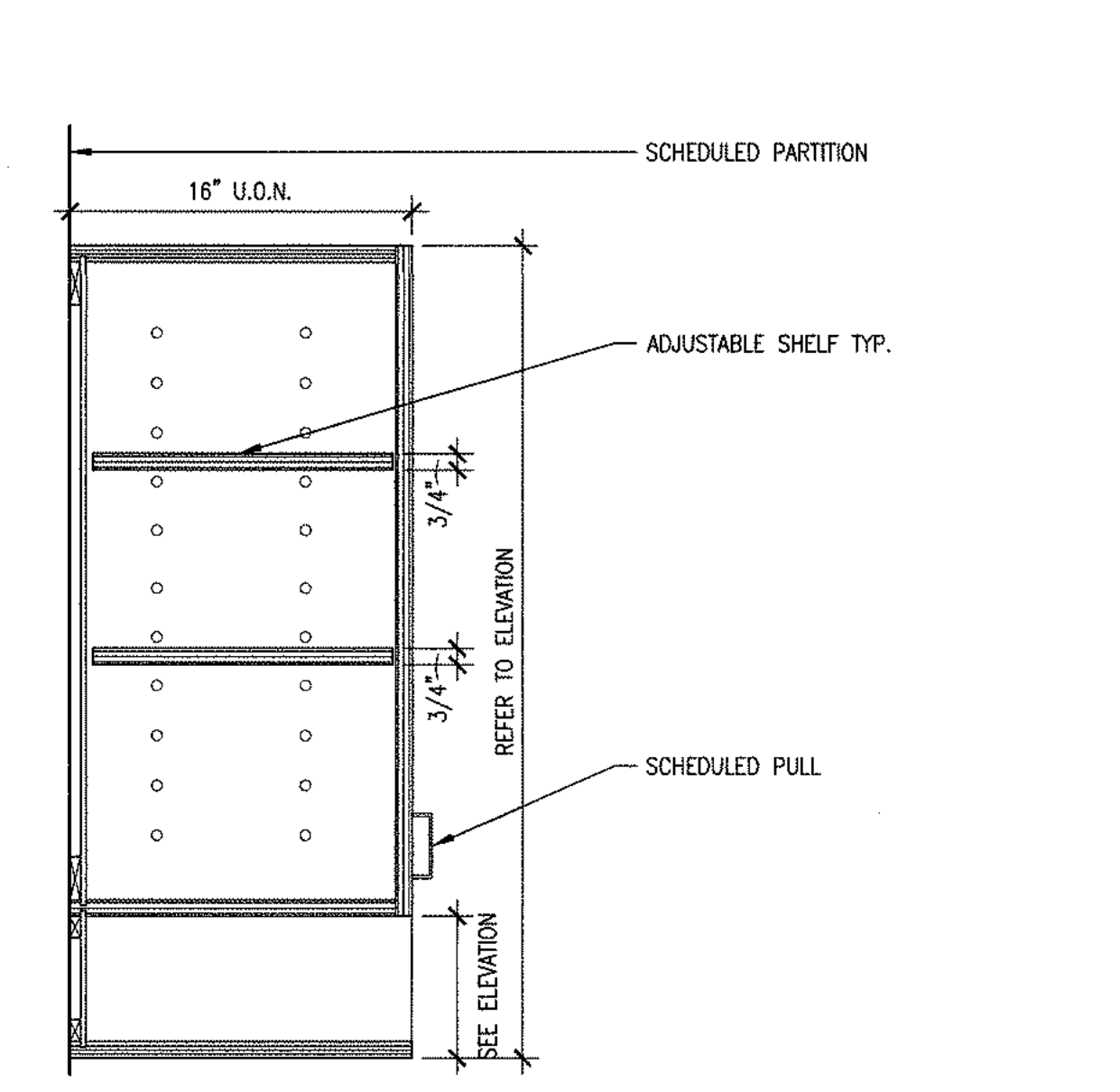
OPEN CABINET 10
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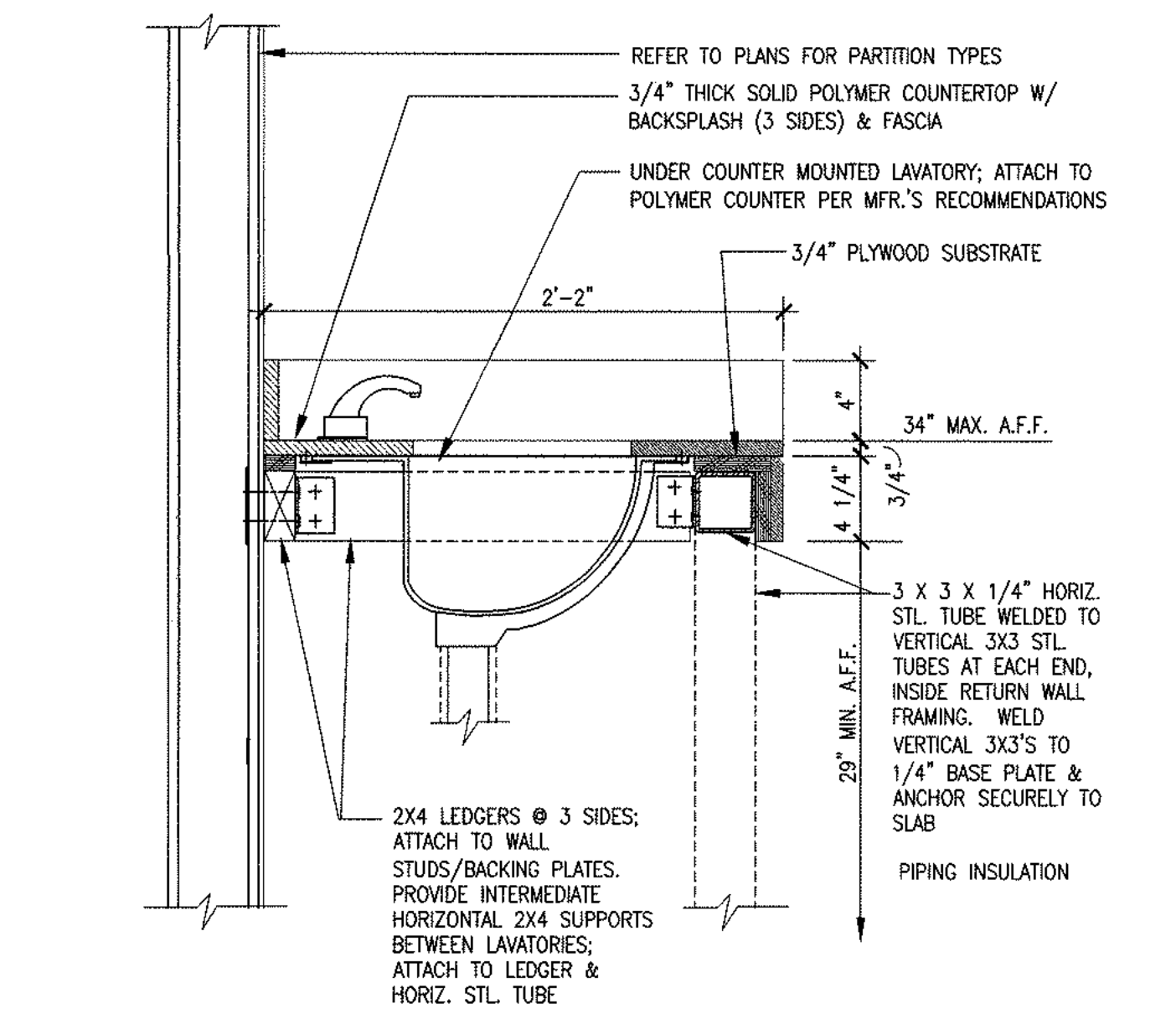
CABINET 6
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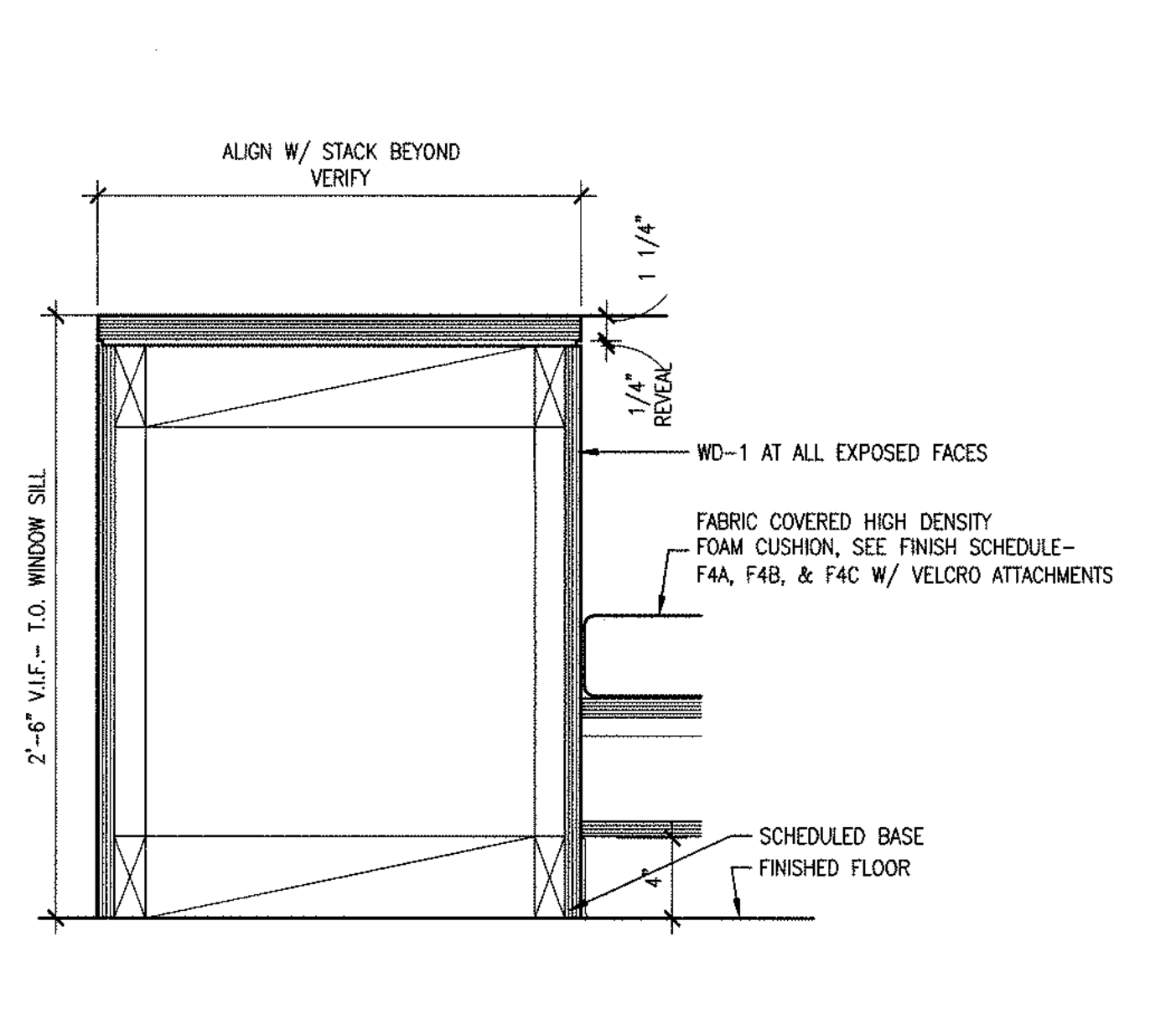
CABINET 2
1-1/2" = 1'-0"



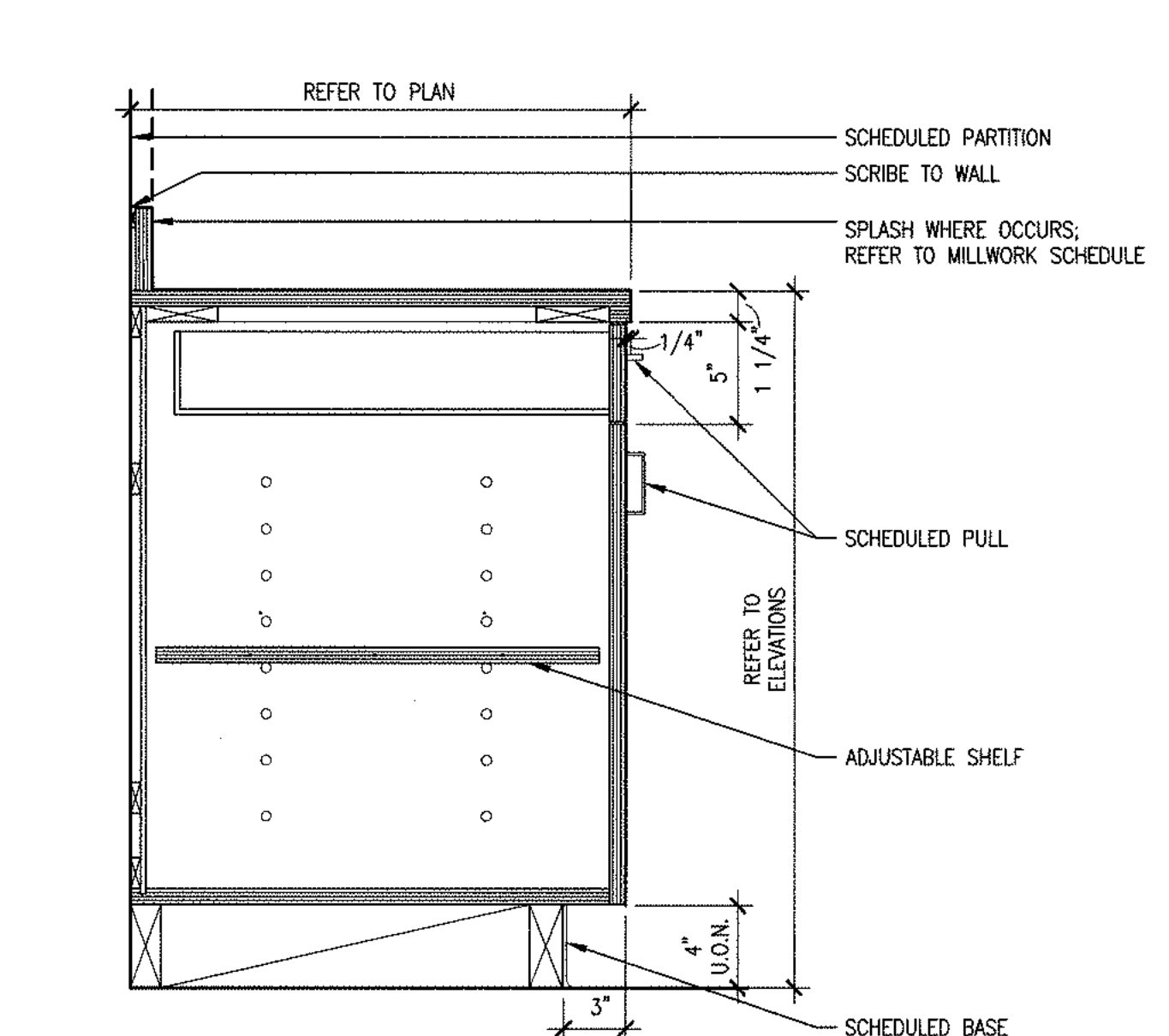
UPPER CABINET 17
1-1/2" = 1'-0"



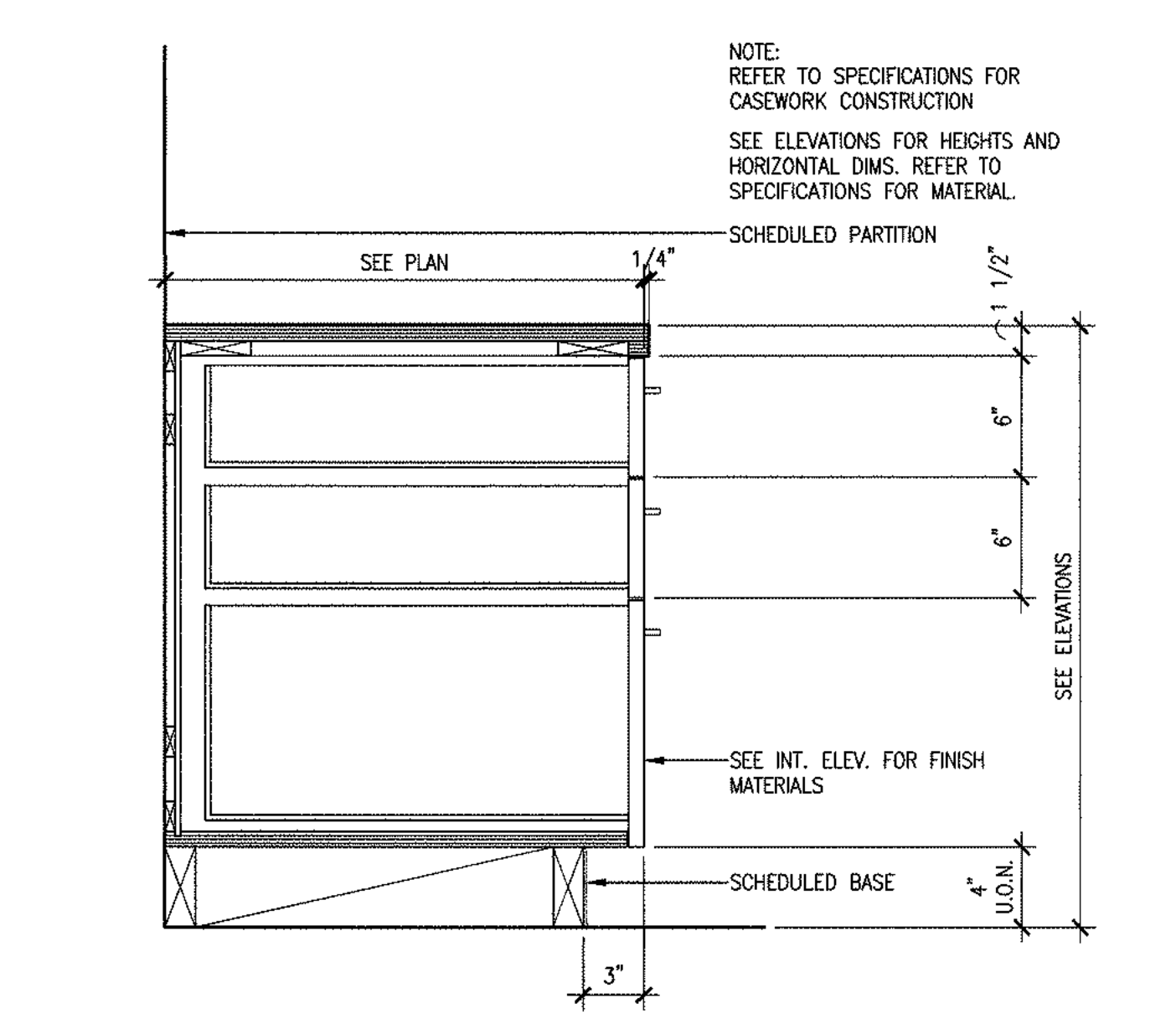
LAVATORY COUNTER 13
1 1/2" = 1'-0"



BENCH END PANEL 9
1-1/2" = 1'-0"



BASE CABINET 5
1-1/2" = 1'-0"



BASE - THREE DRAWER CABINET 1
1-1/2" = 1'-0"

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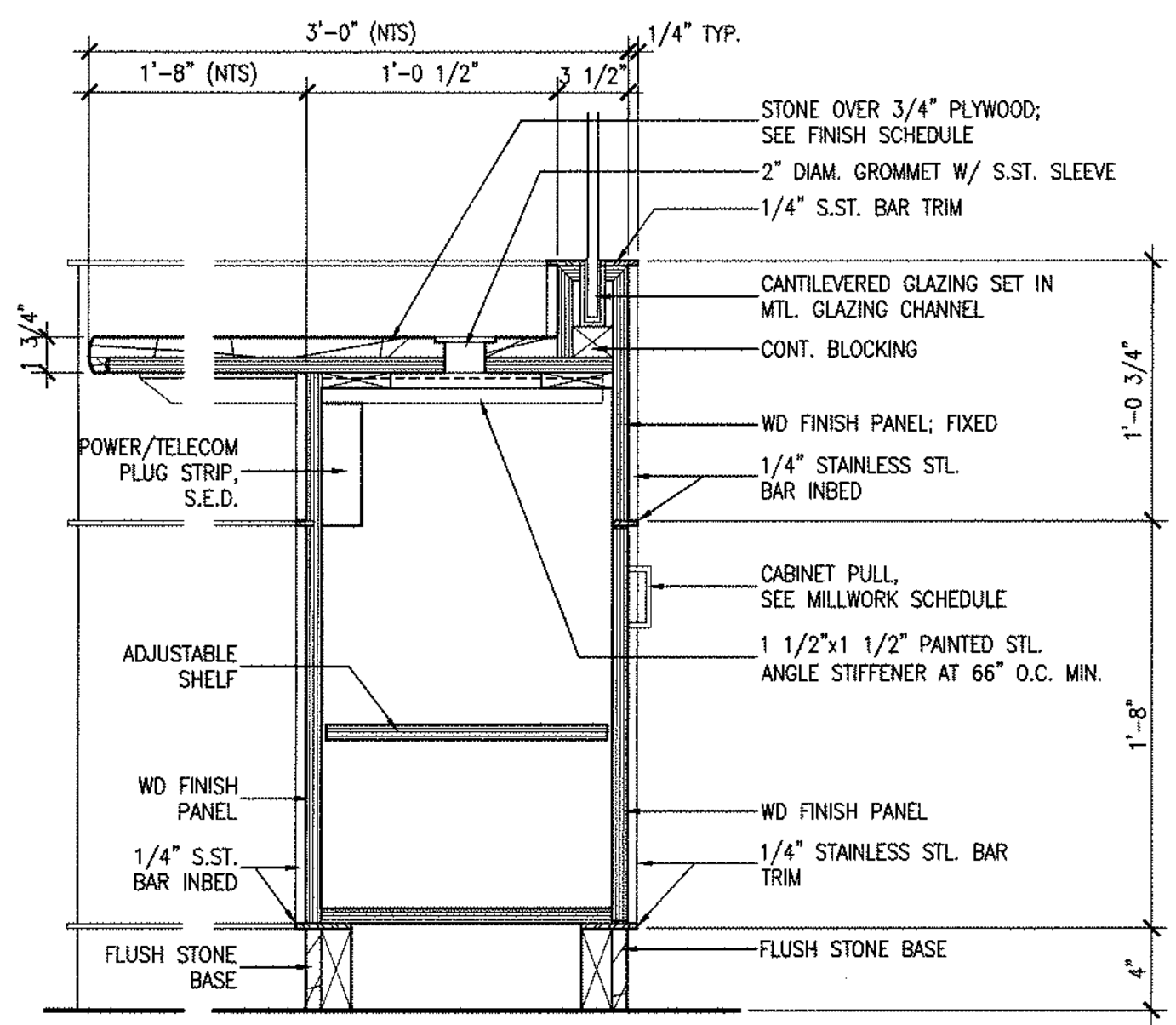
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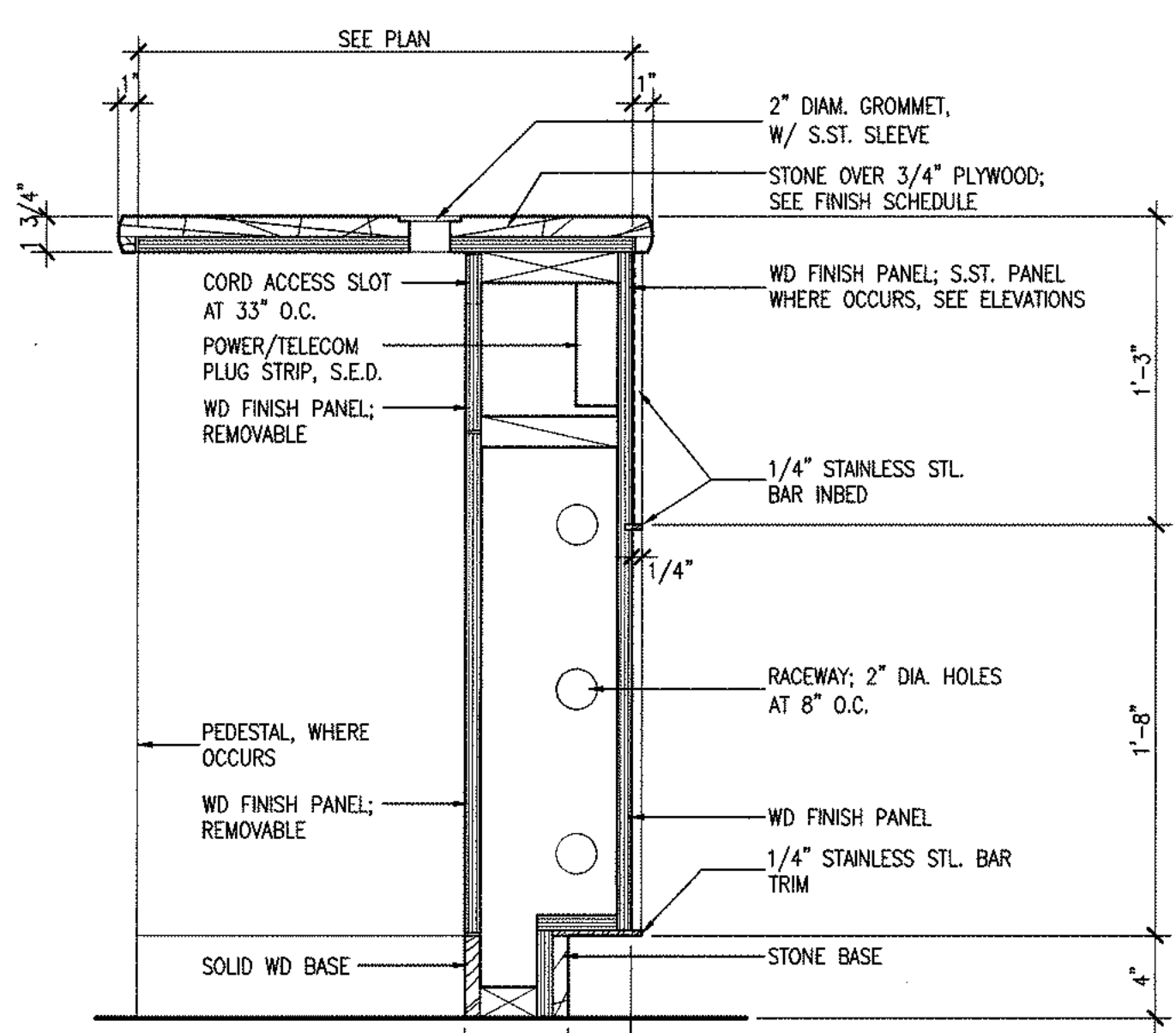
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sheet number

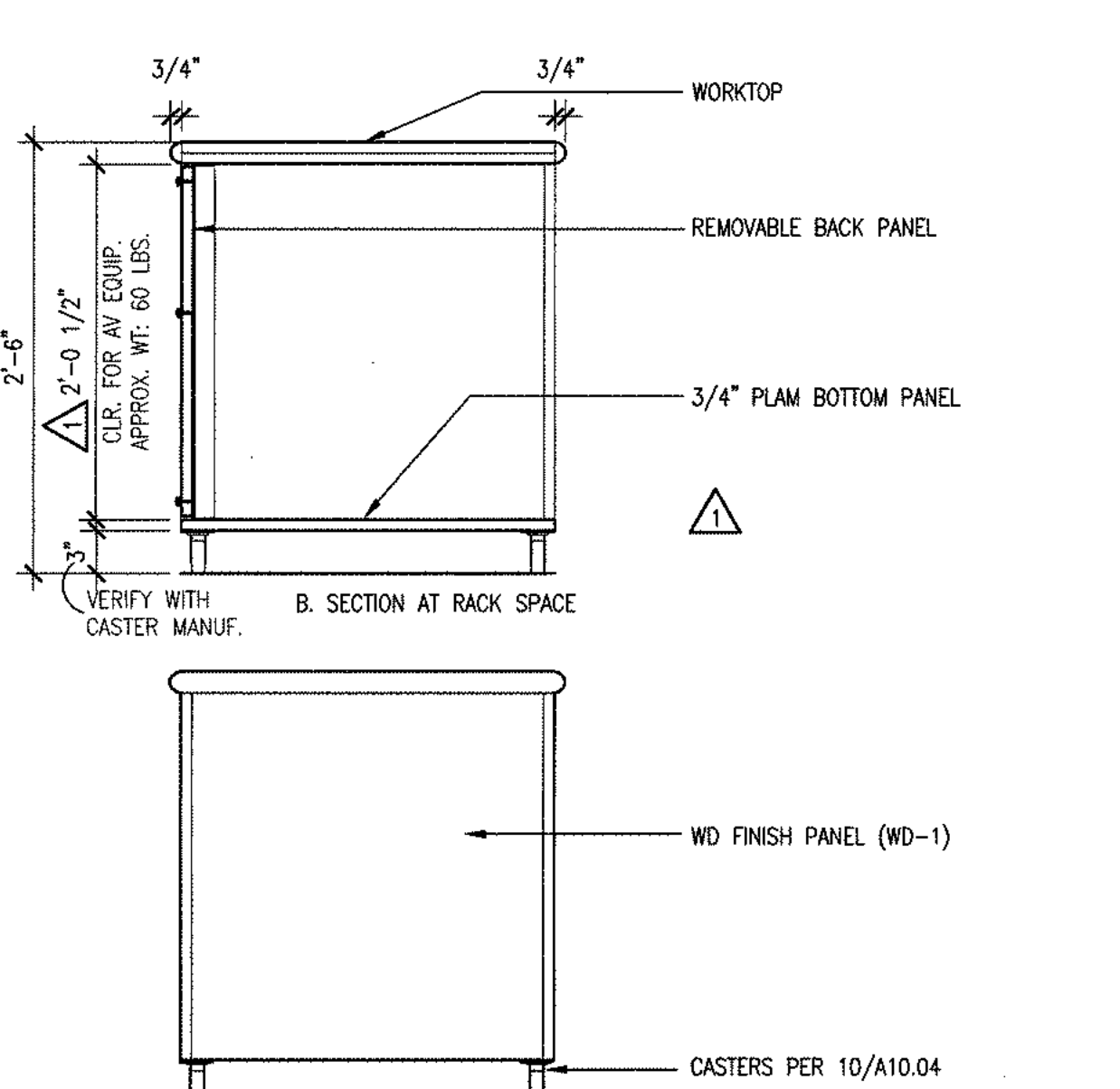
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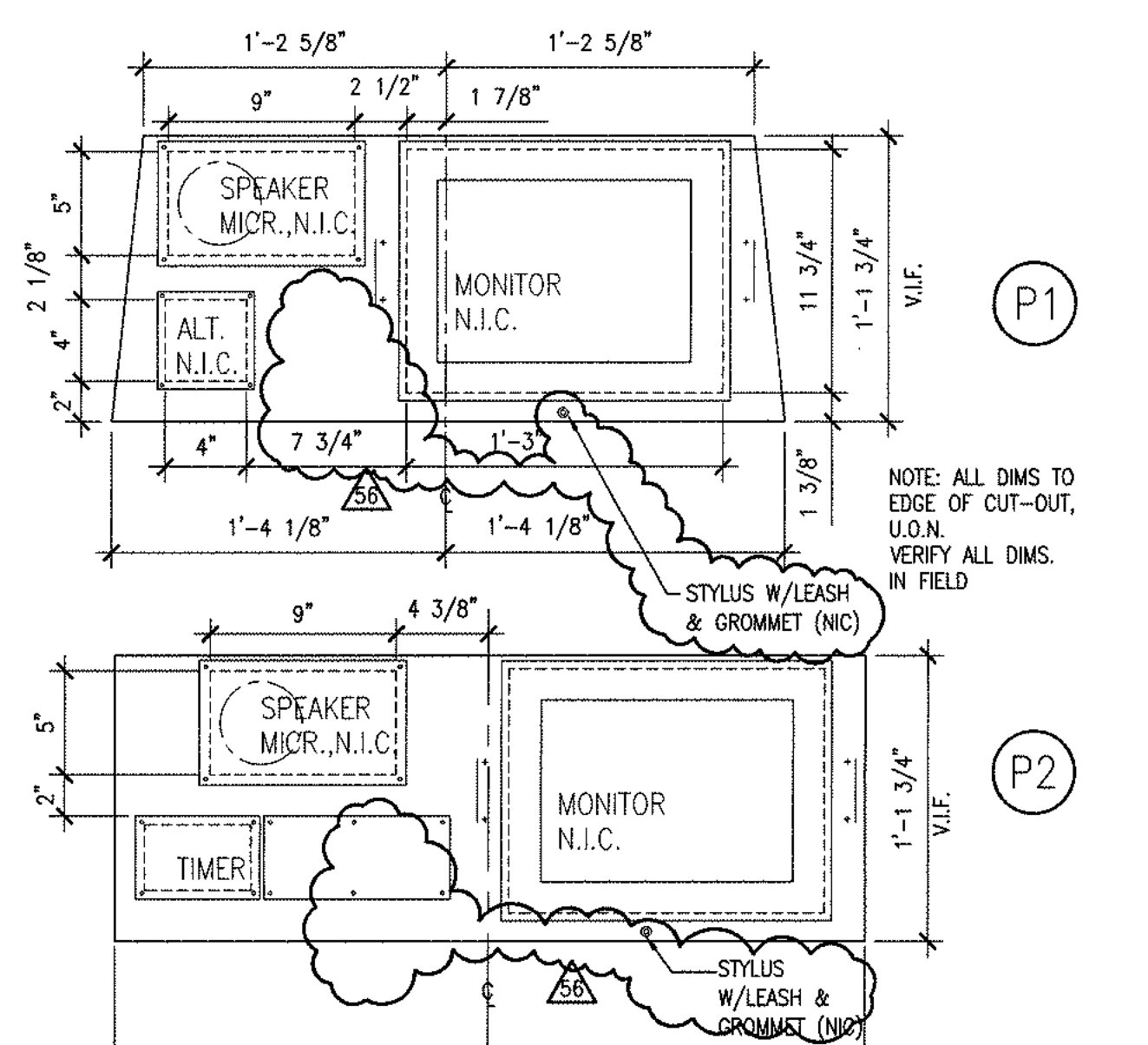
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1 1/2" = 1'-0"



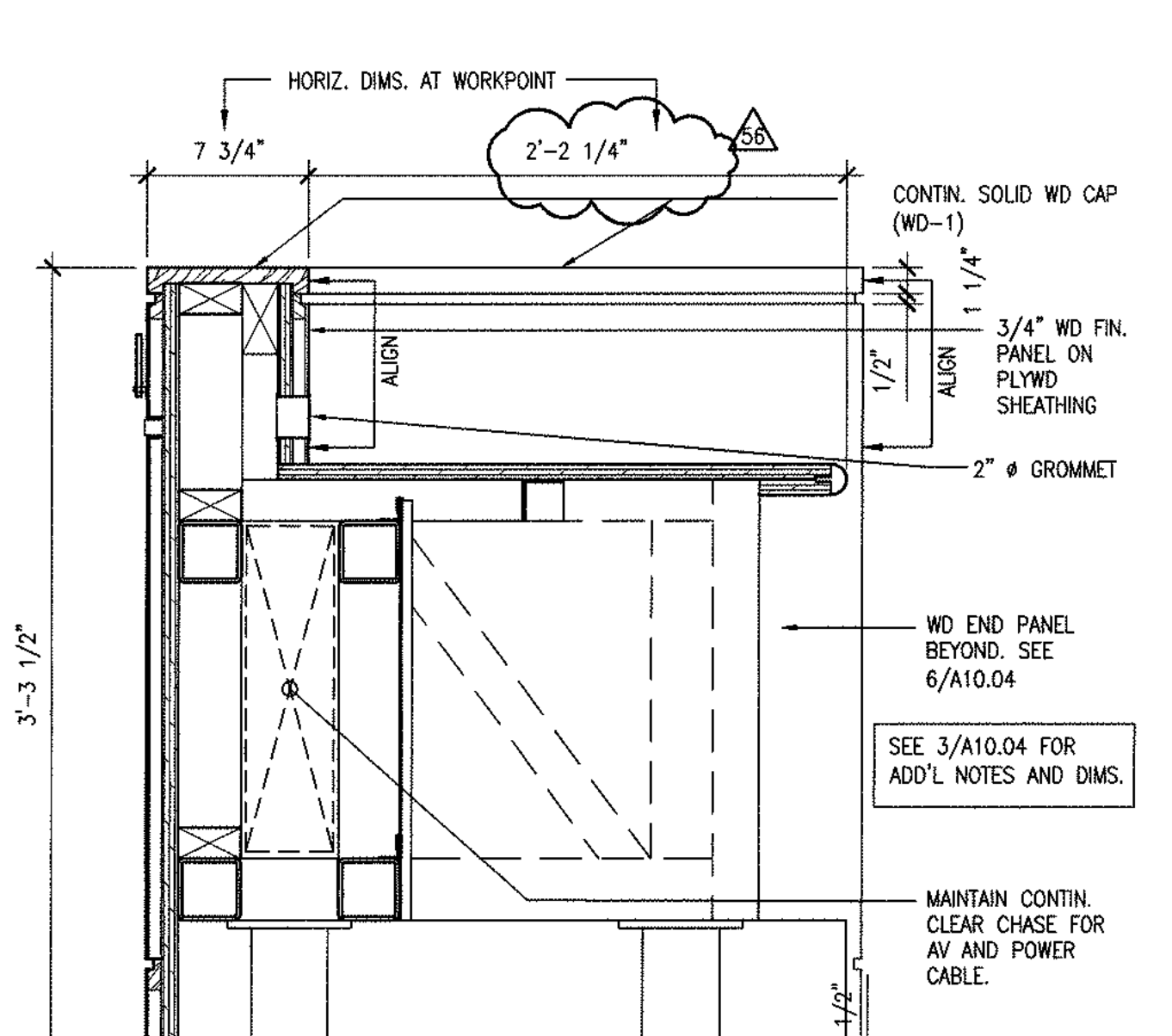
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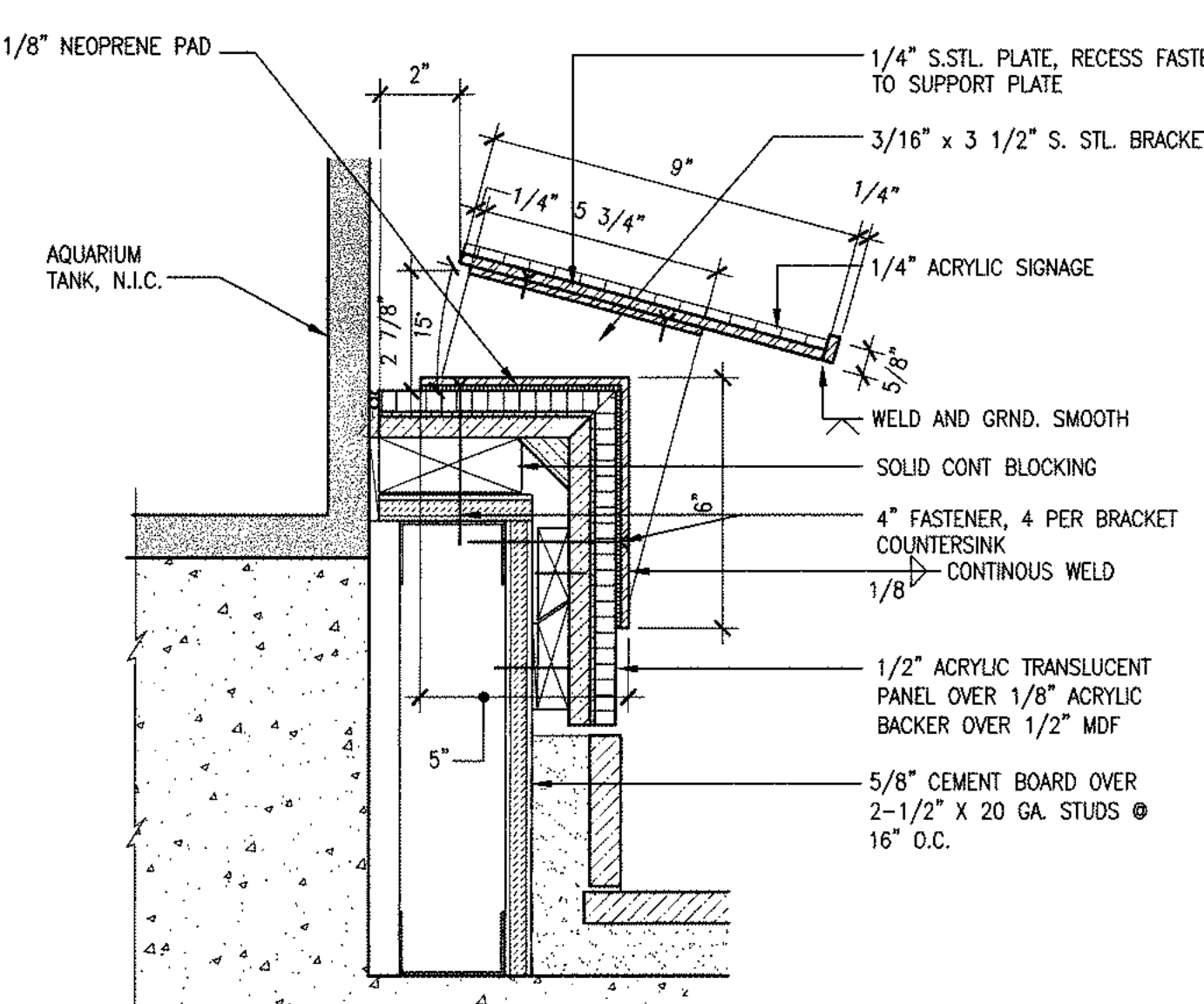
SECTION AND ELEV. AT WING DESK (12)
1" = 1'-0"



ELEV. AT DESK TOP PANELS (8)
1 1/2" = 1'-0"



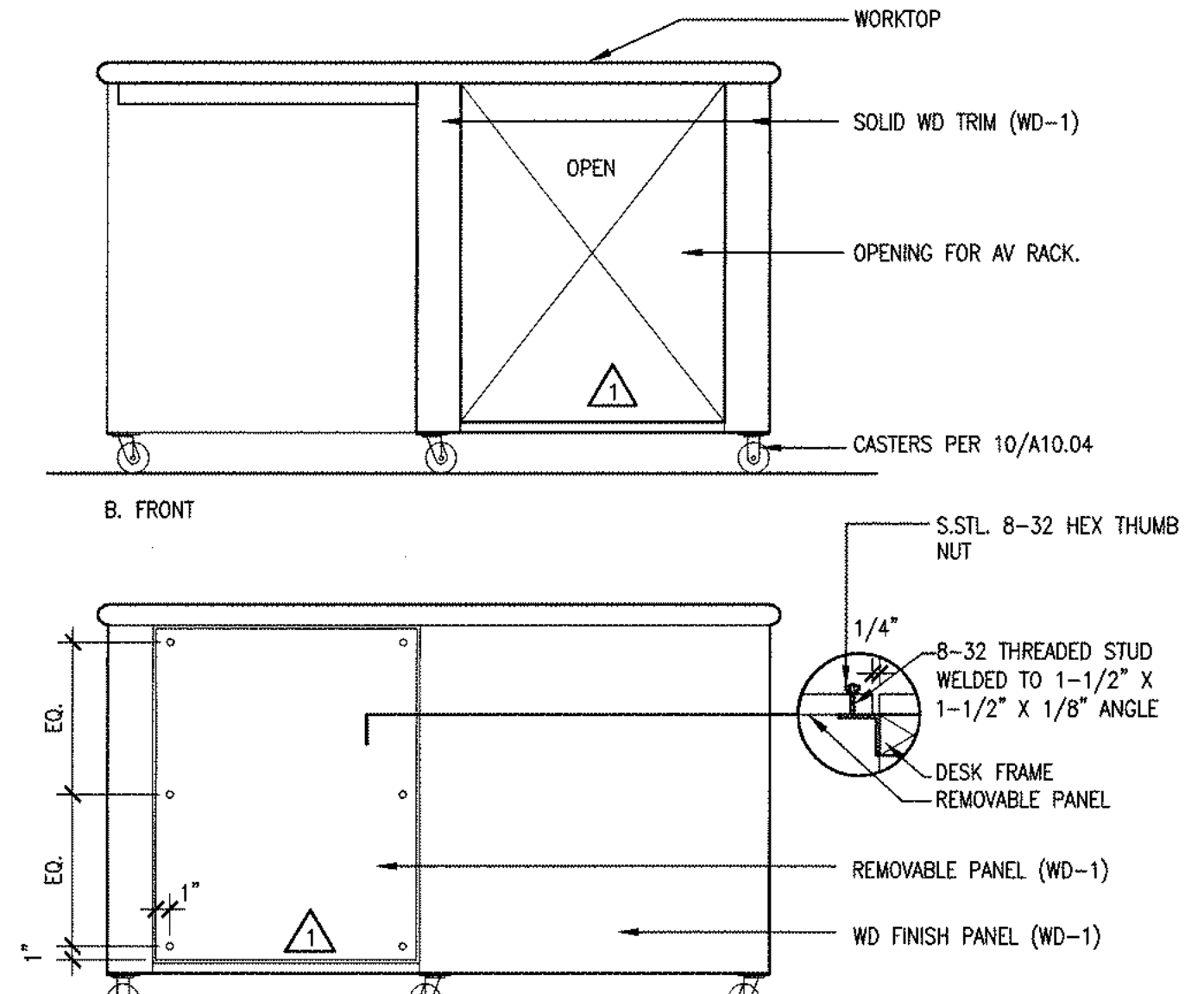
SECTION AT EXPANDED WORKTOP (4)
1 1/2" = 1'-0"



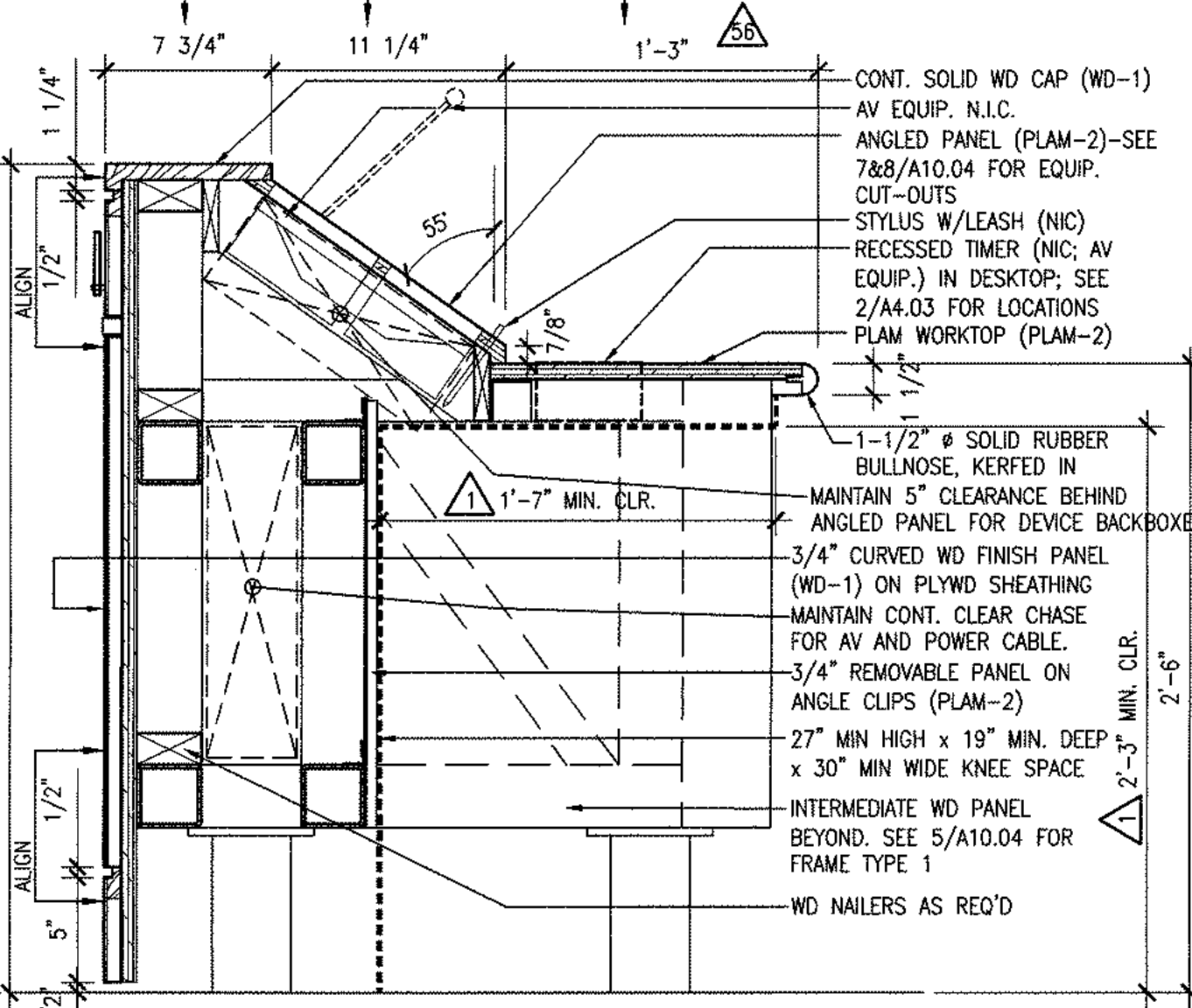
ACRYLIC/MDF PANEL SILL @ AQUARIUM TANK (17)
3" = 1'-0"



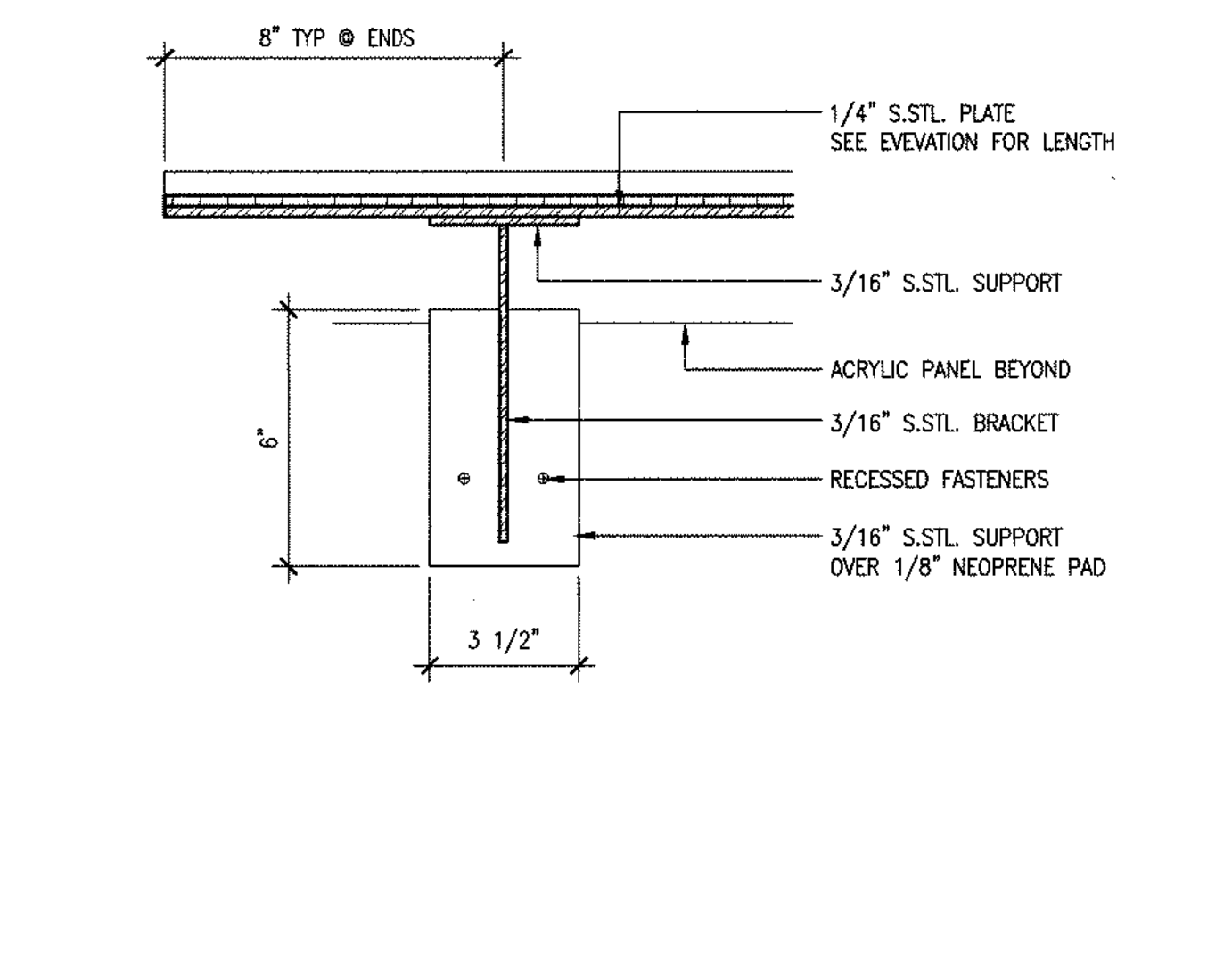
ELEVATIONS AT WING DESK (11)
1" = 1'-0"



ELEV. AT DESK TOP PANELS (7)
1 1/2" = 1'-0"



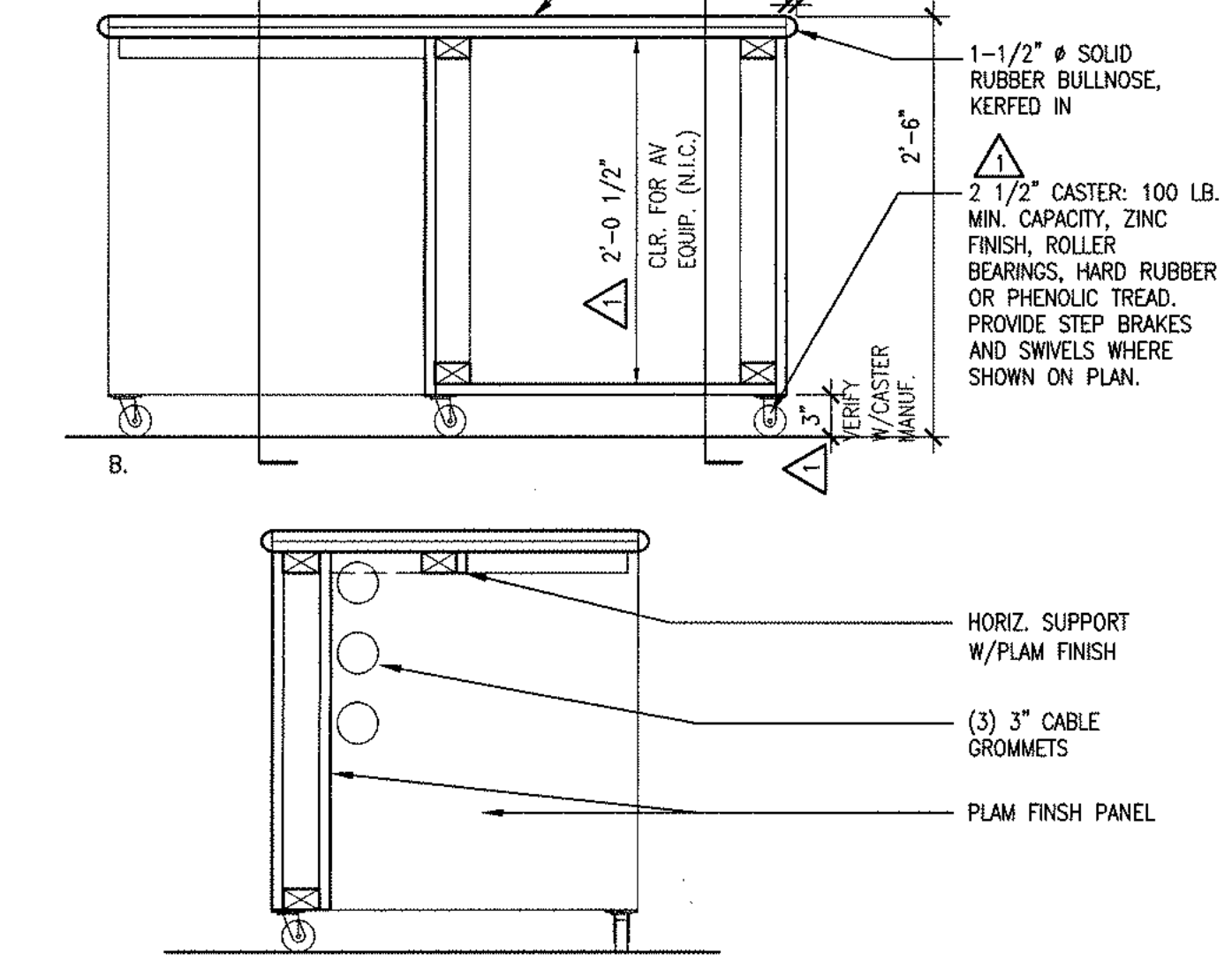
SECTION AT DAIS DESK, TYP. (3)
1 1/2" = 1'-0"



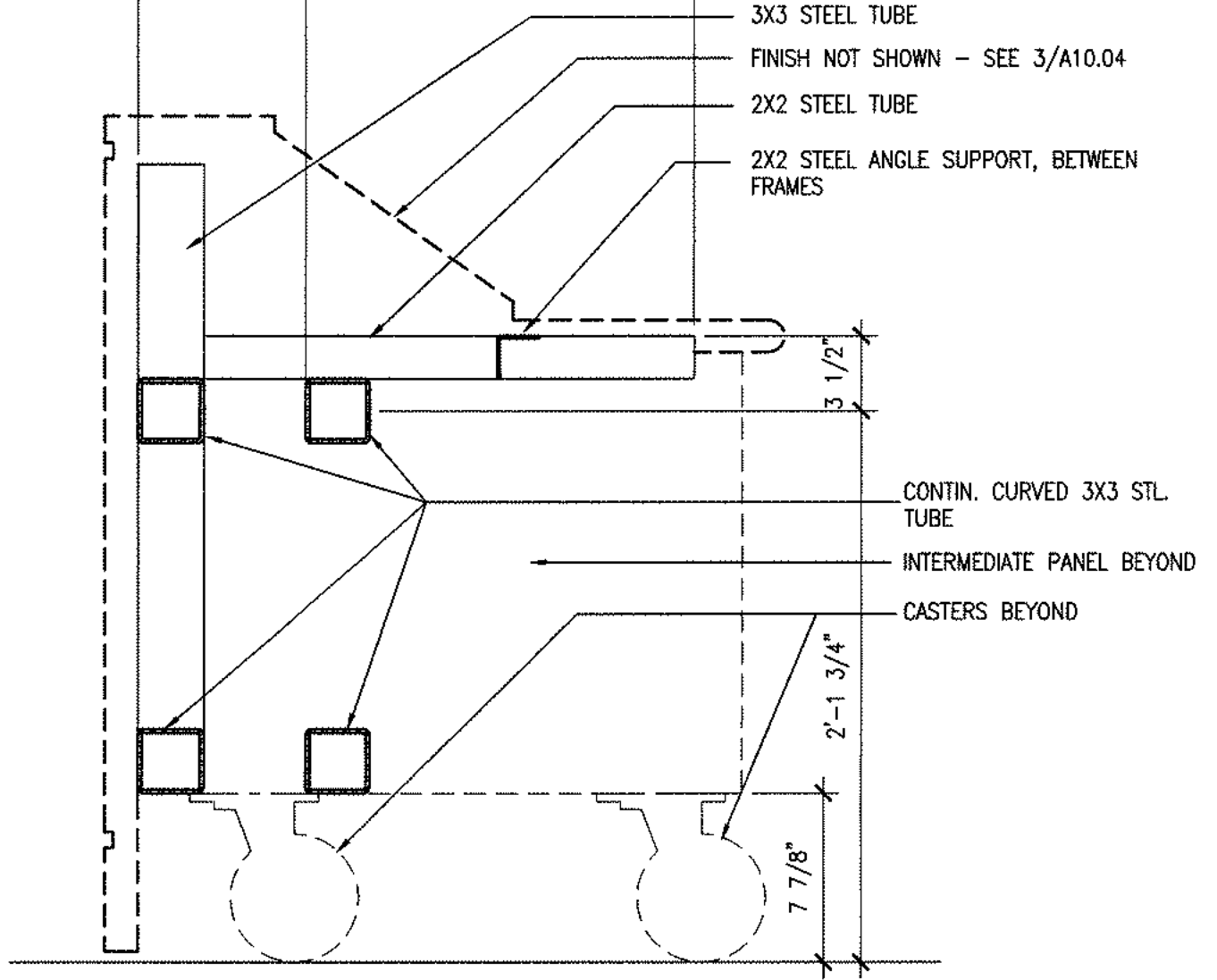
FOOTBOARD SUPPORT ELEVATION (18)
3" = 1'-0"



SECTIONS AT WING DESK (10)
1" = 1'-0"



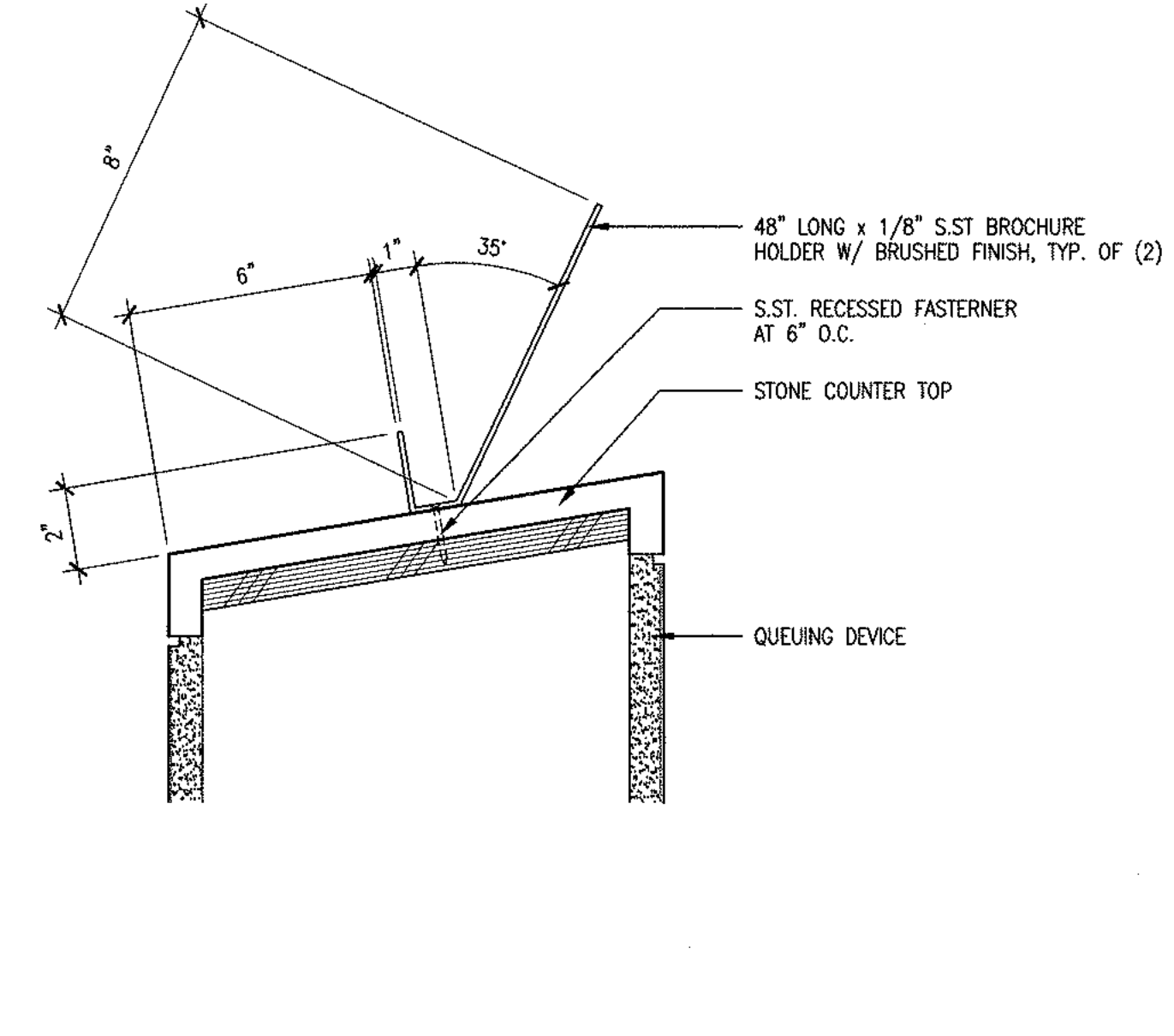
PLAN AT END PANEL (6)
1 1/2" = 1'-0"



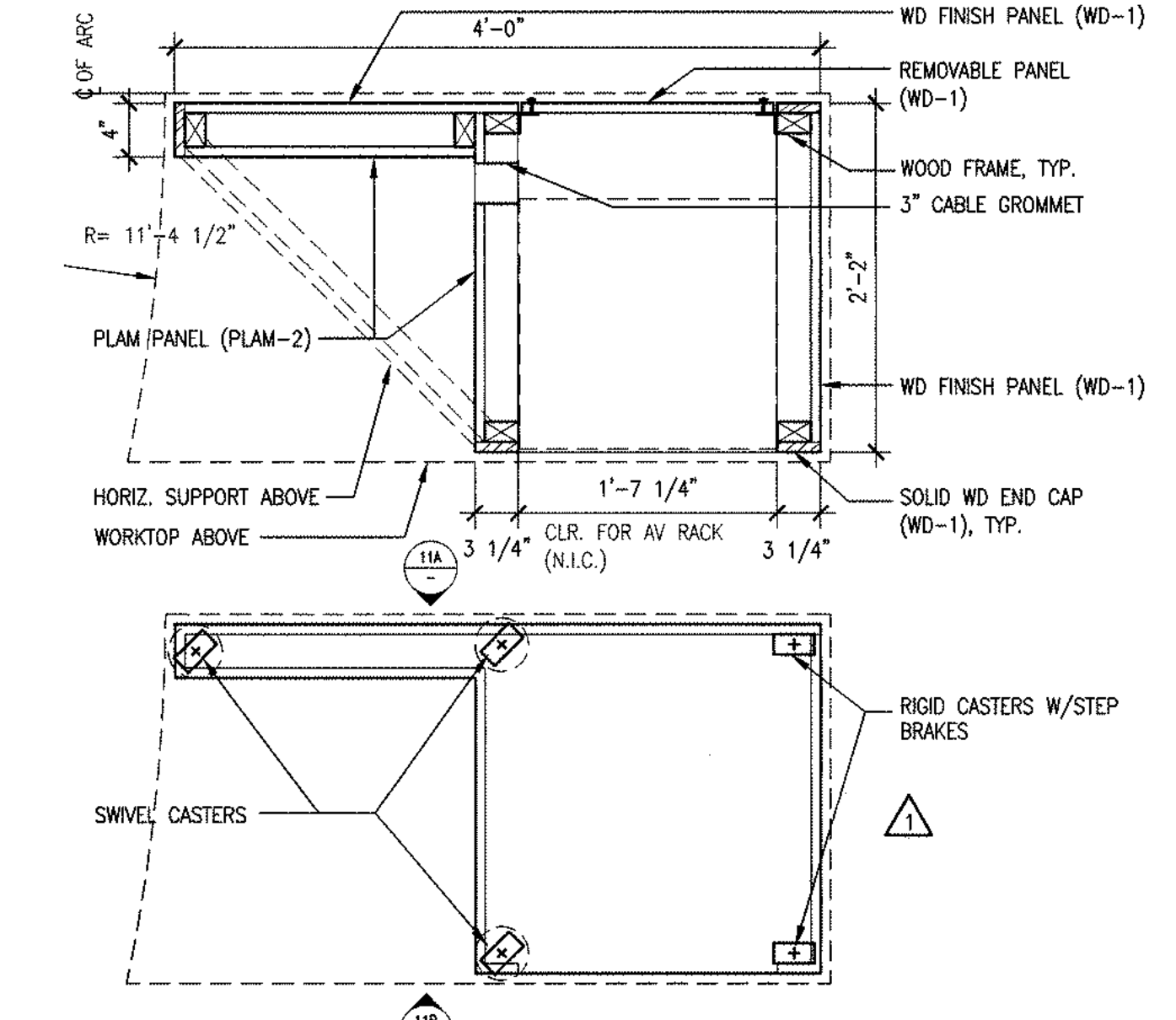
SECTION AT FRAME TYPE 2 (2)
1 1/2" = 1'-0"



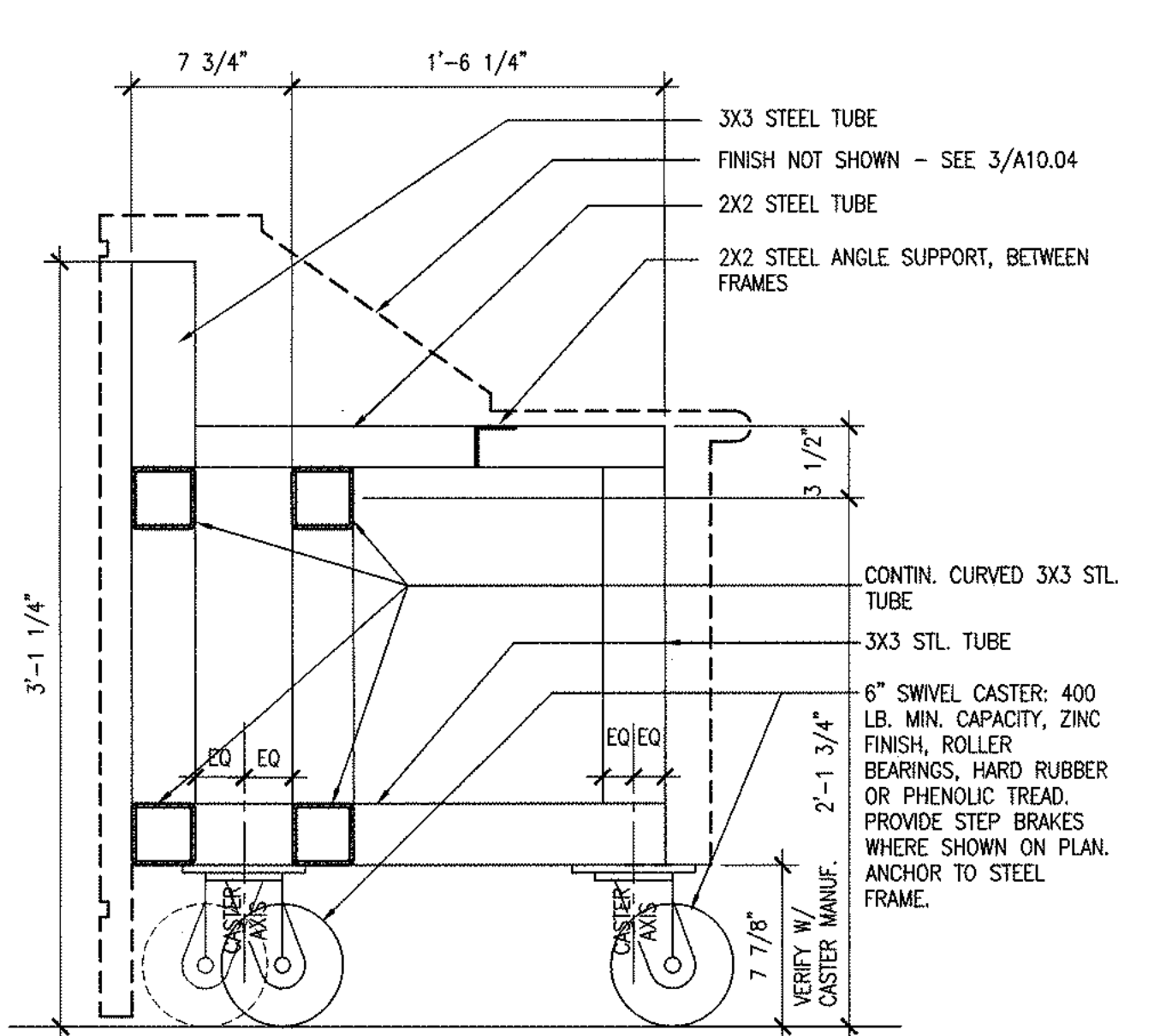
BROCHURE HOLDER AT QUEUING DEVICE (13)
3" = 1'-0"



WING DESK PLANS (9)
1" = 1'-0"



PLAN AT TYP. INTERMEDIATE PANEL (5)
1 1/2" = 1'-0"



SECTION AT FRAME TYPE 1 (1)
1 1/2" = 1'-0"

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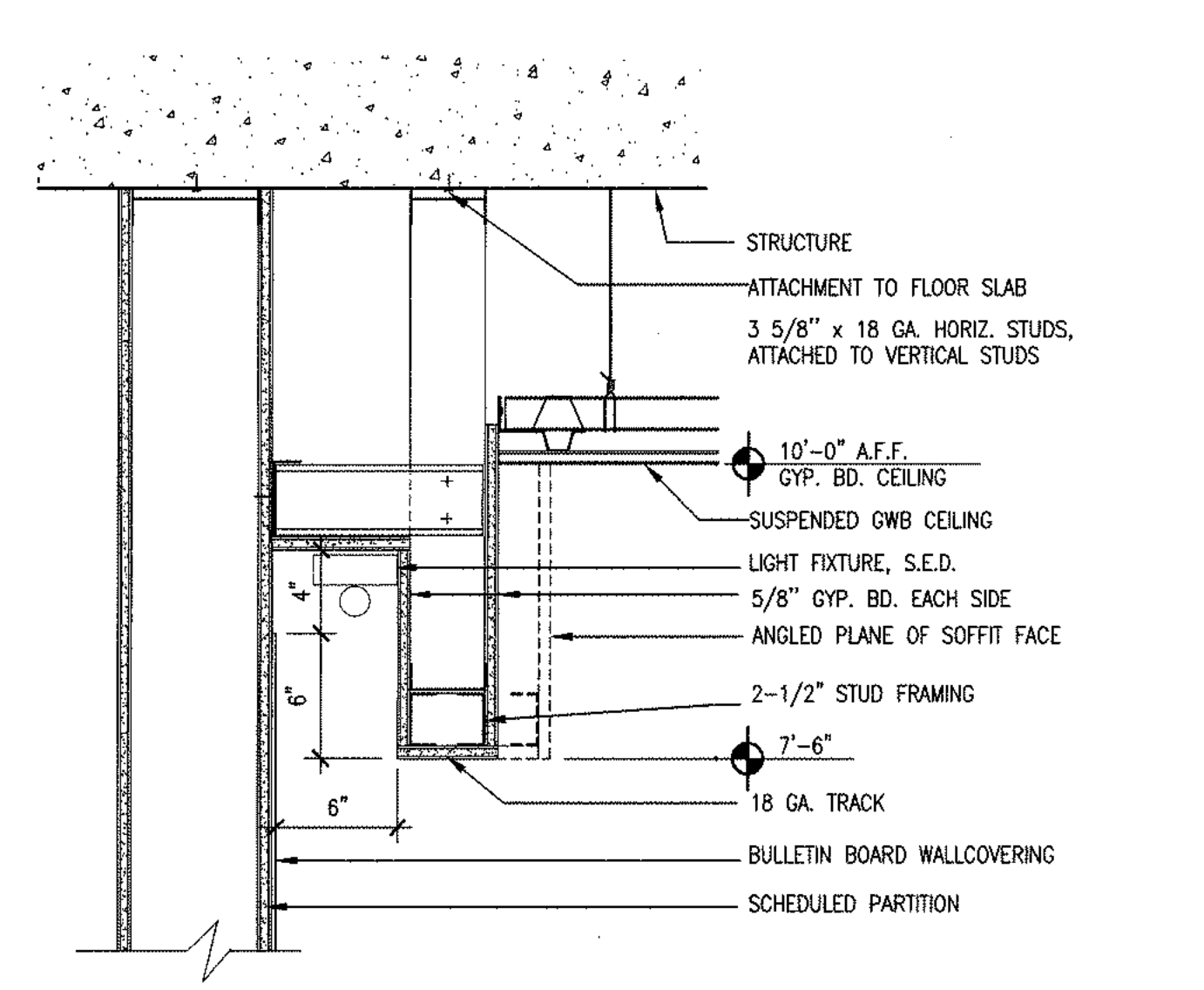
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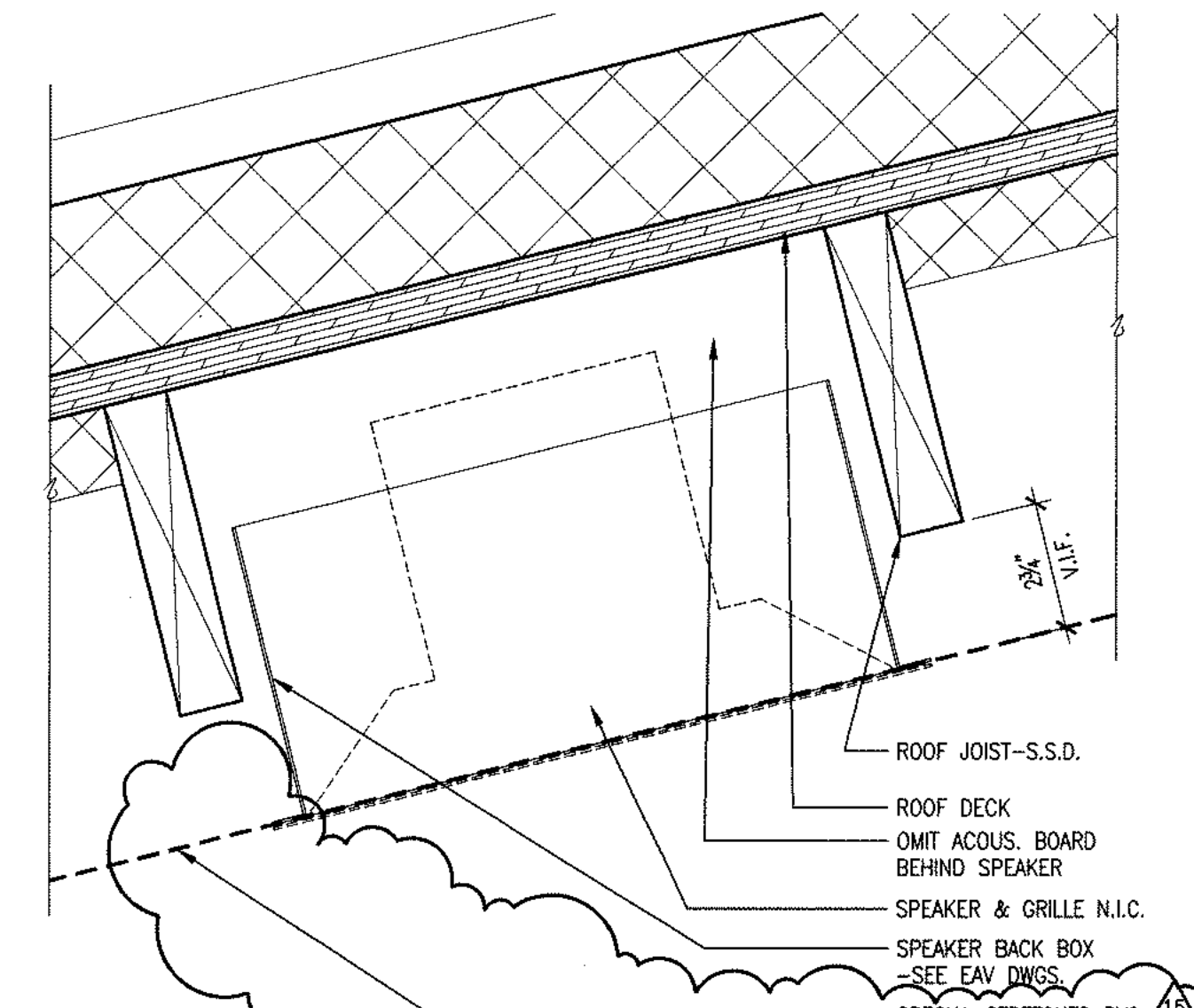
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DETAILS

AS NOTED
date 2003.04.18
project number 20114.00

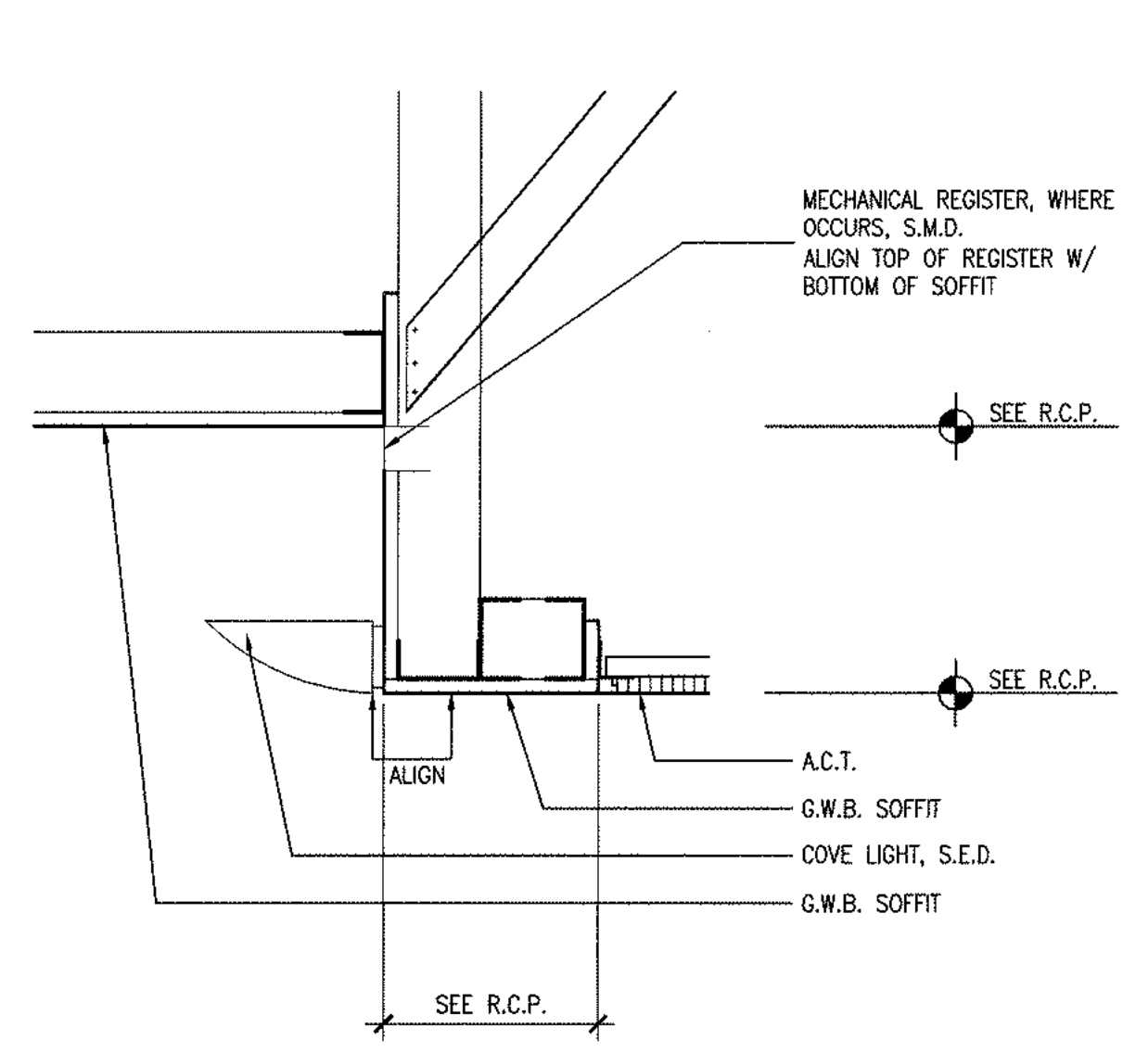
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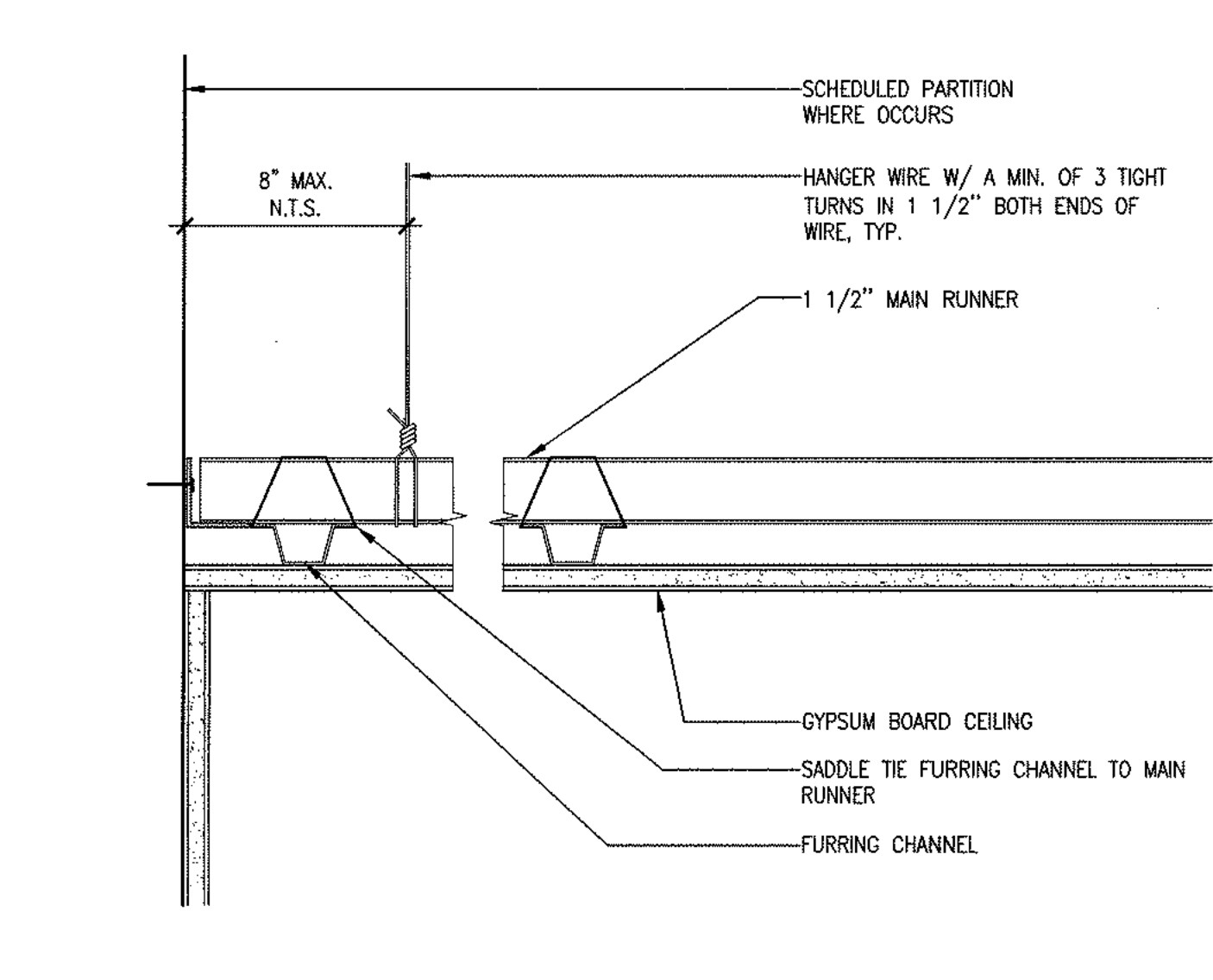
LIGHT COVE ABOVE BULLETIN BOARD 20
1-1/2" = 1'-0"



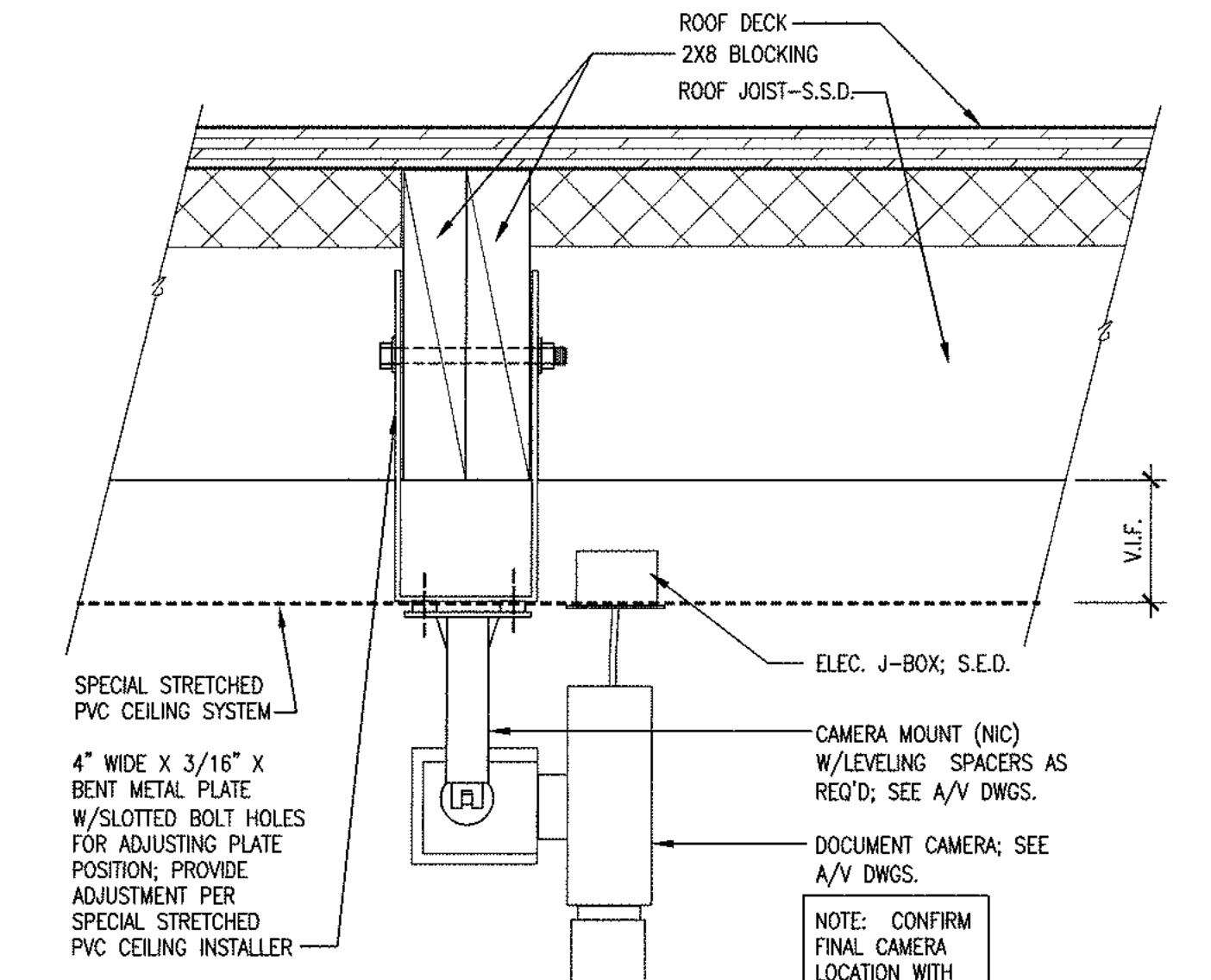
SECTION @ RECESSED SPEAKER 16
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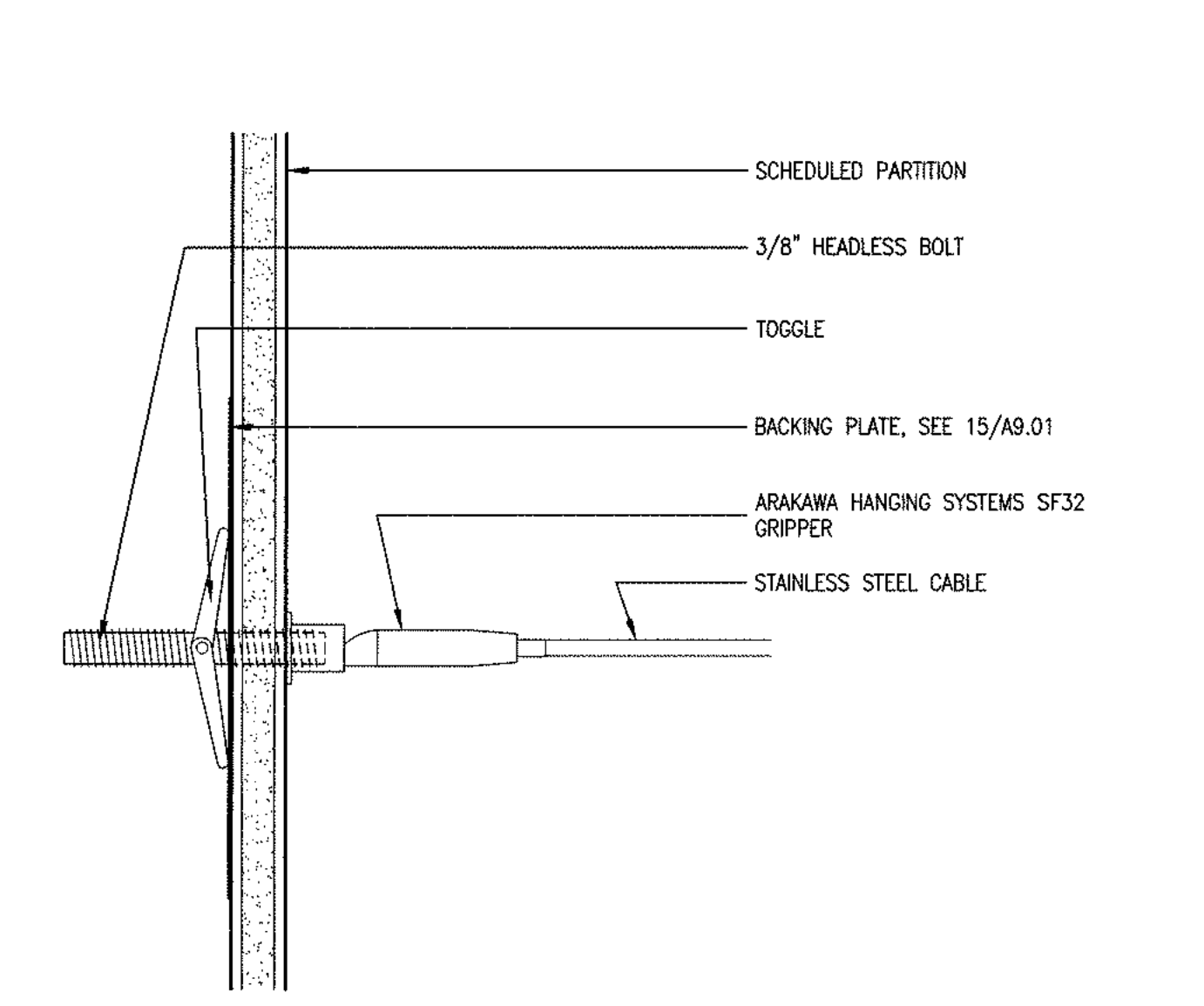
SOFFIT AT PERIMETER WINDOW 12
1-1/2" = 1'-0"



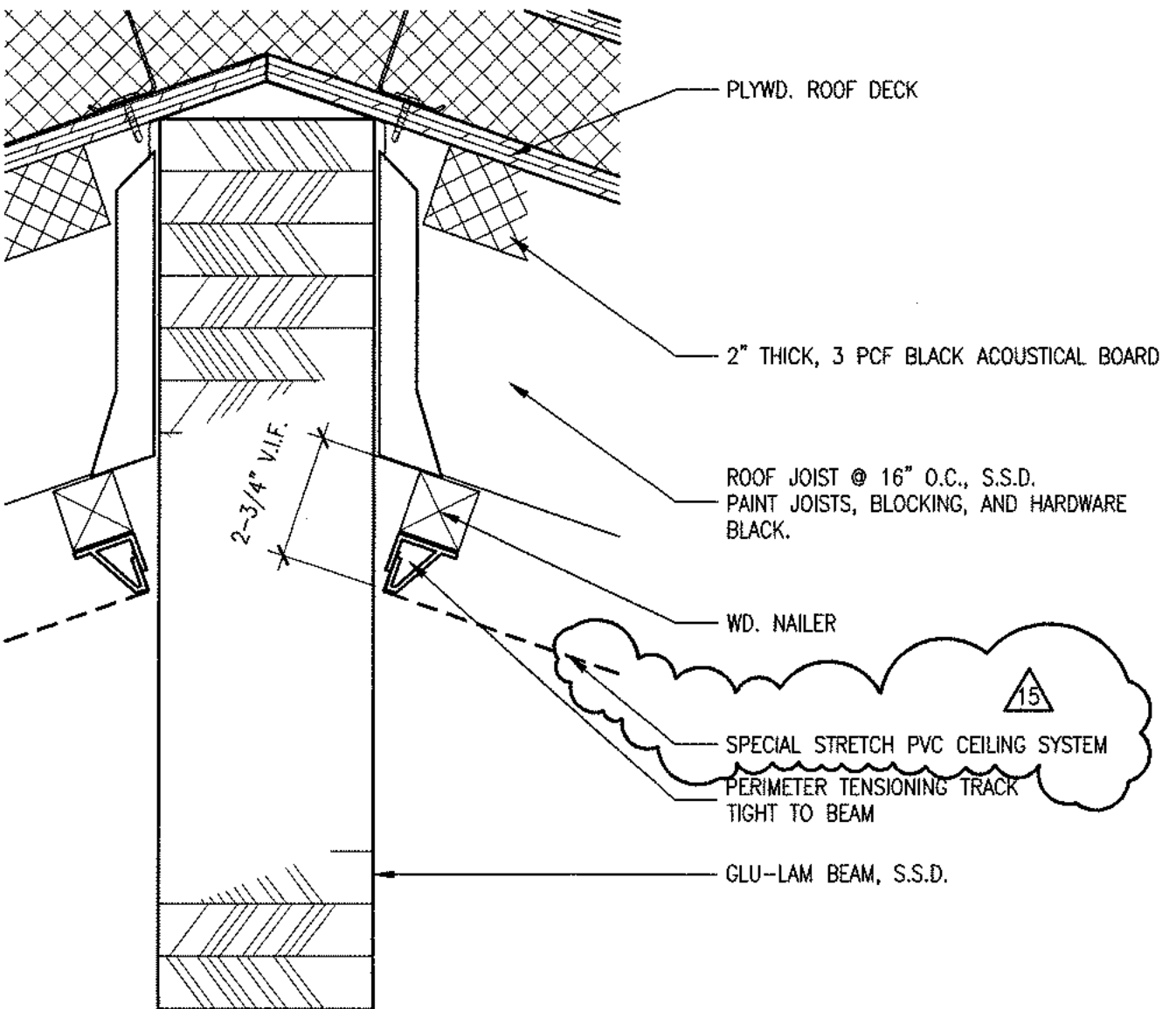
SUSPENDED GWB CEILING 8
3" = 1'-0"



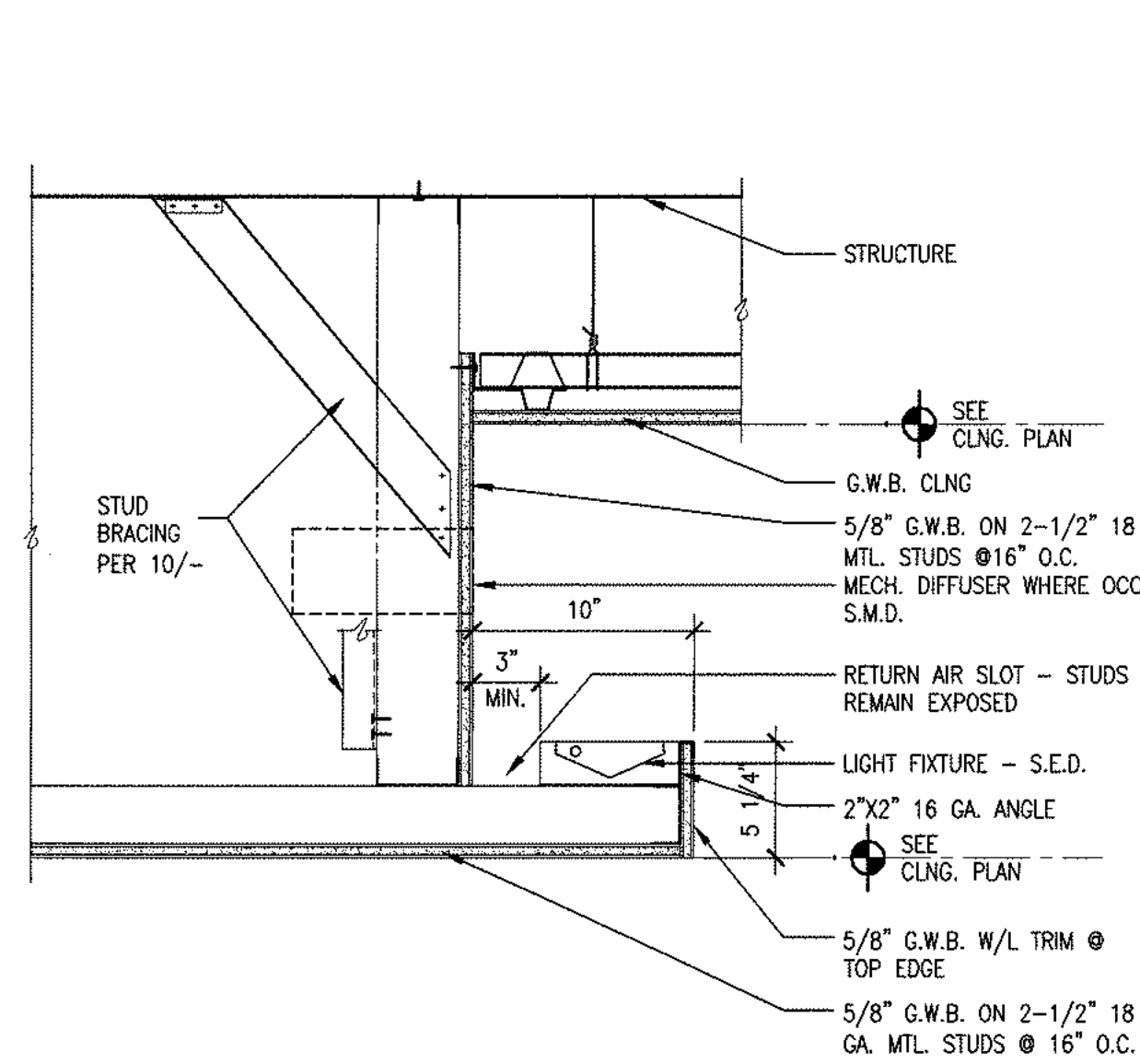
CEILING MOUNTED CAMERA 4A
3" = 1'-0"



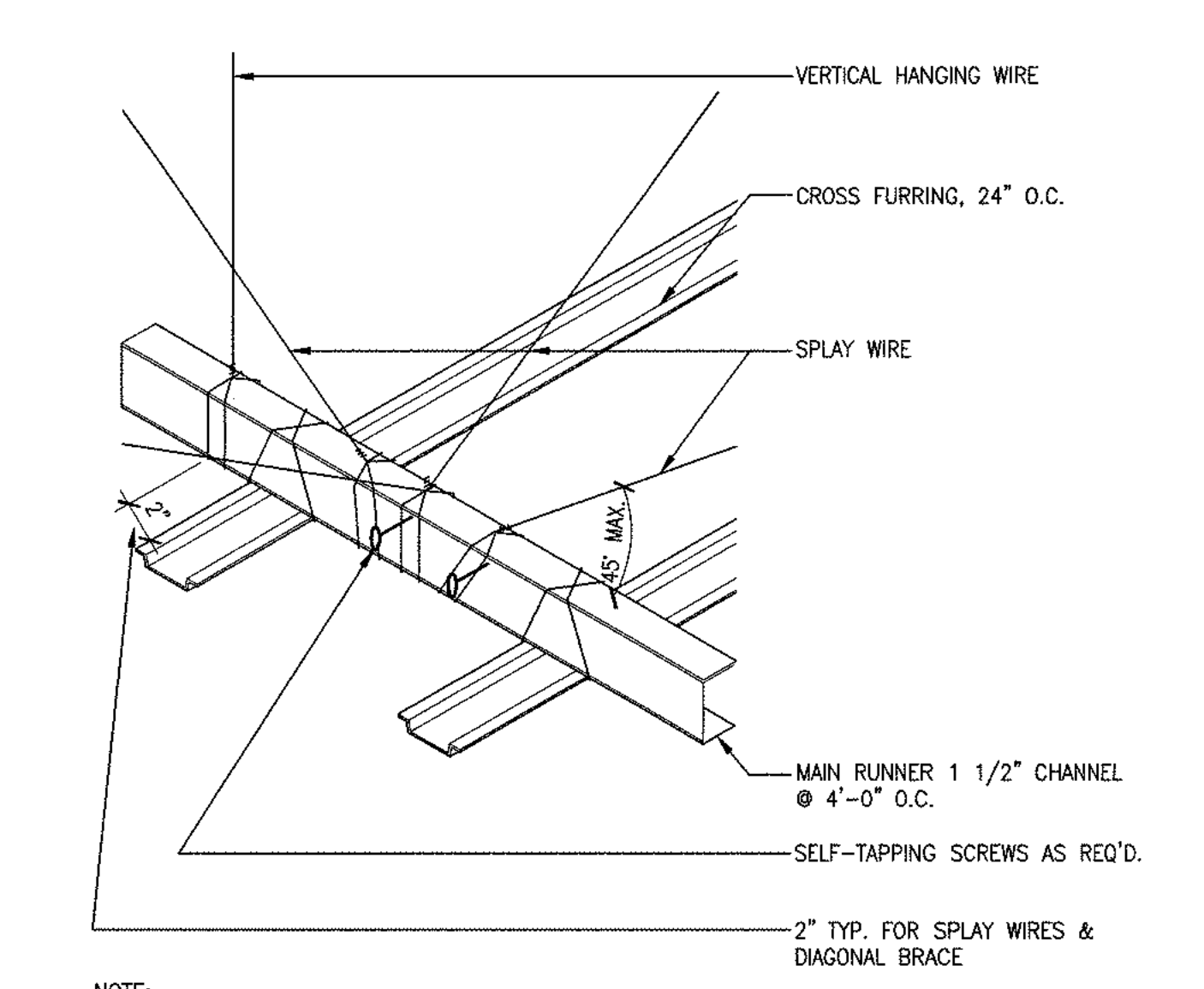
CUSTOM FABRIC CLG ATTACHMENT 19
6" = 1'-0"



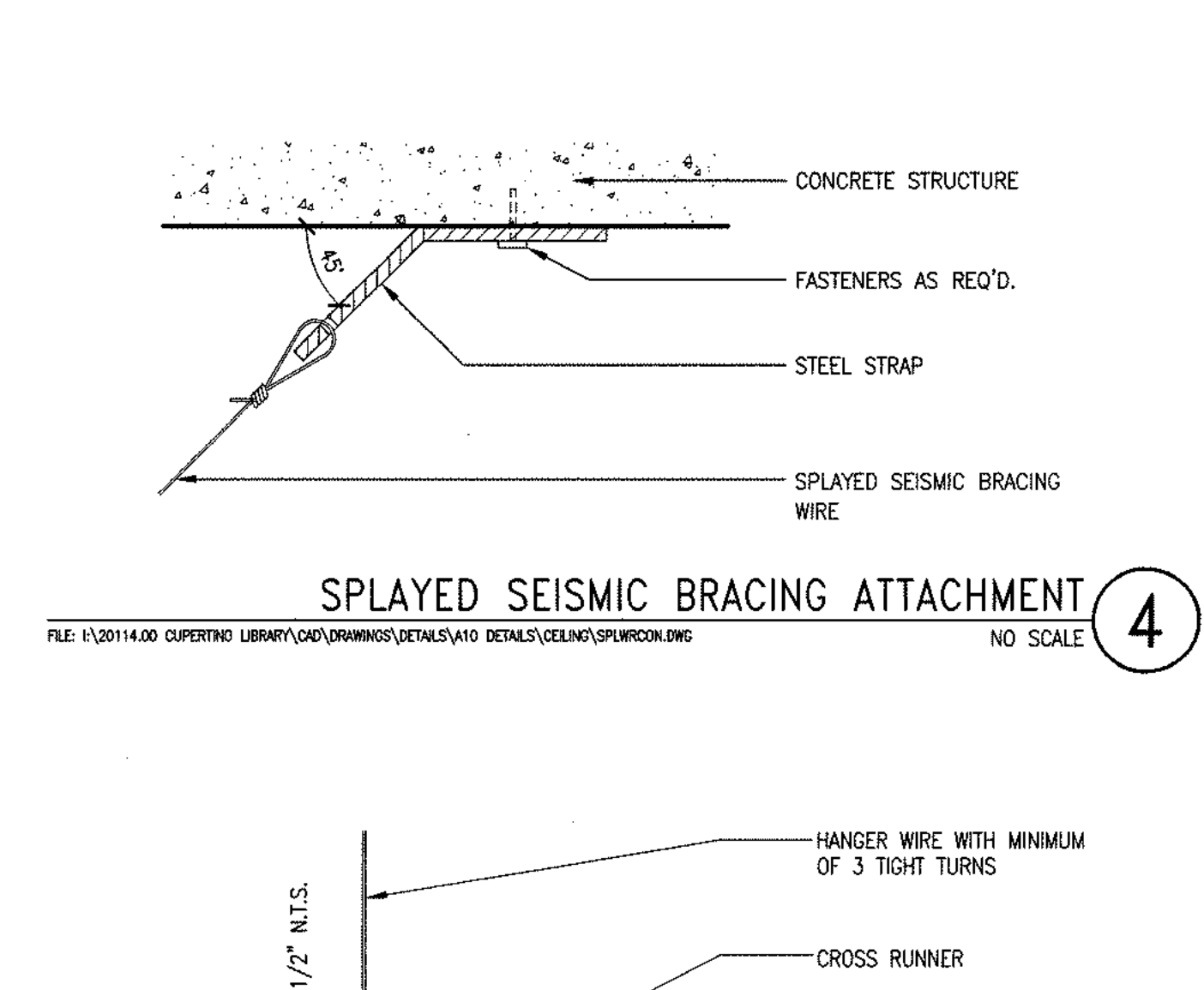
EUROSPAN CEILING AT HIP 15
3" = 1'-0"



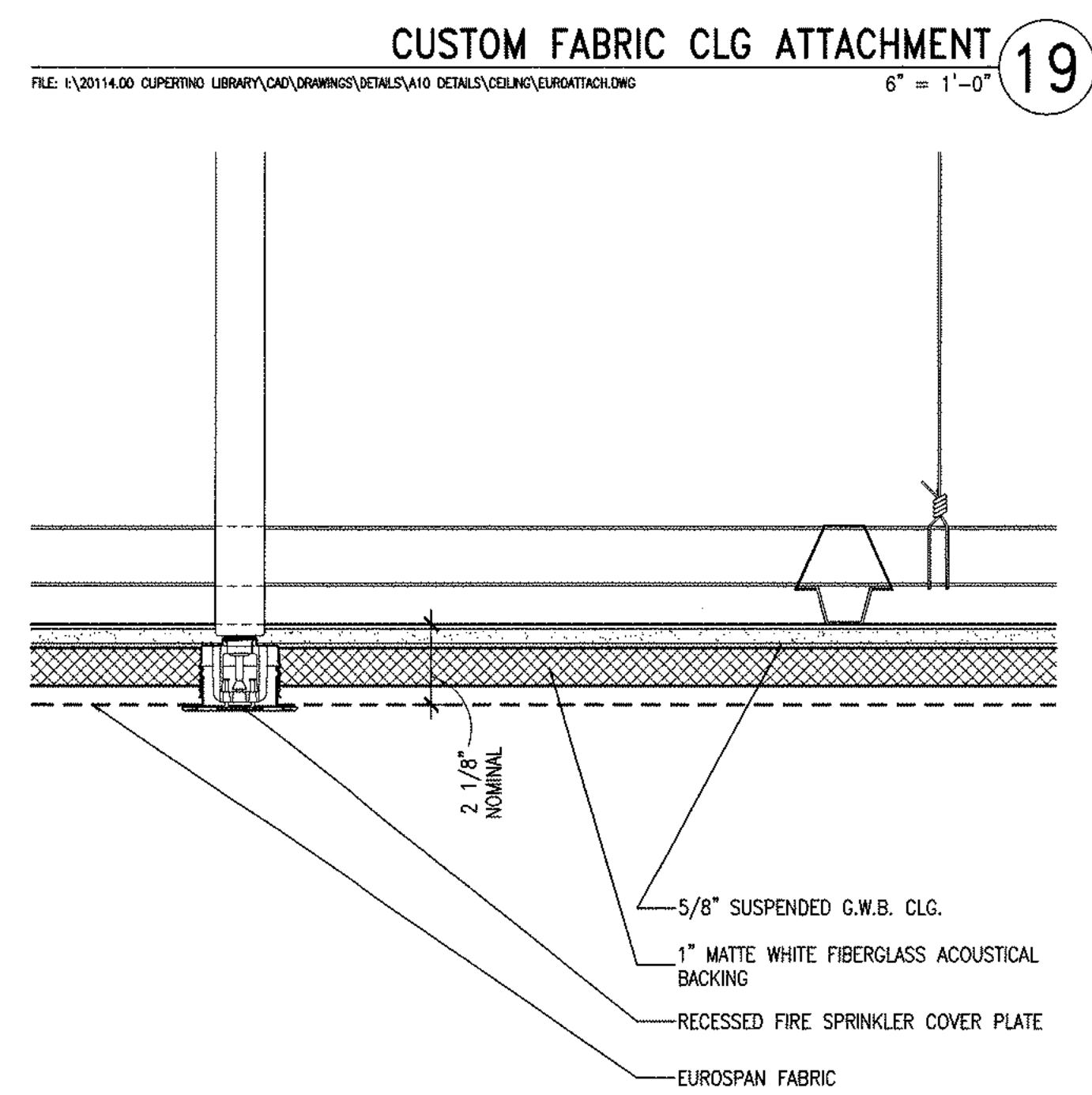
LIGHT COVE @ SOFFIT 11
1-1/2" = 1'-0"



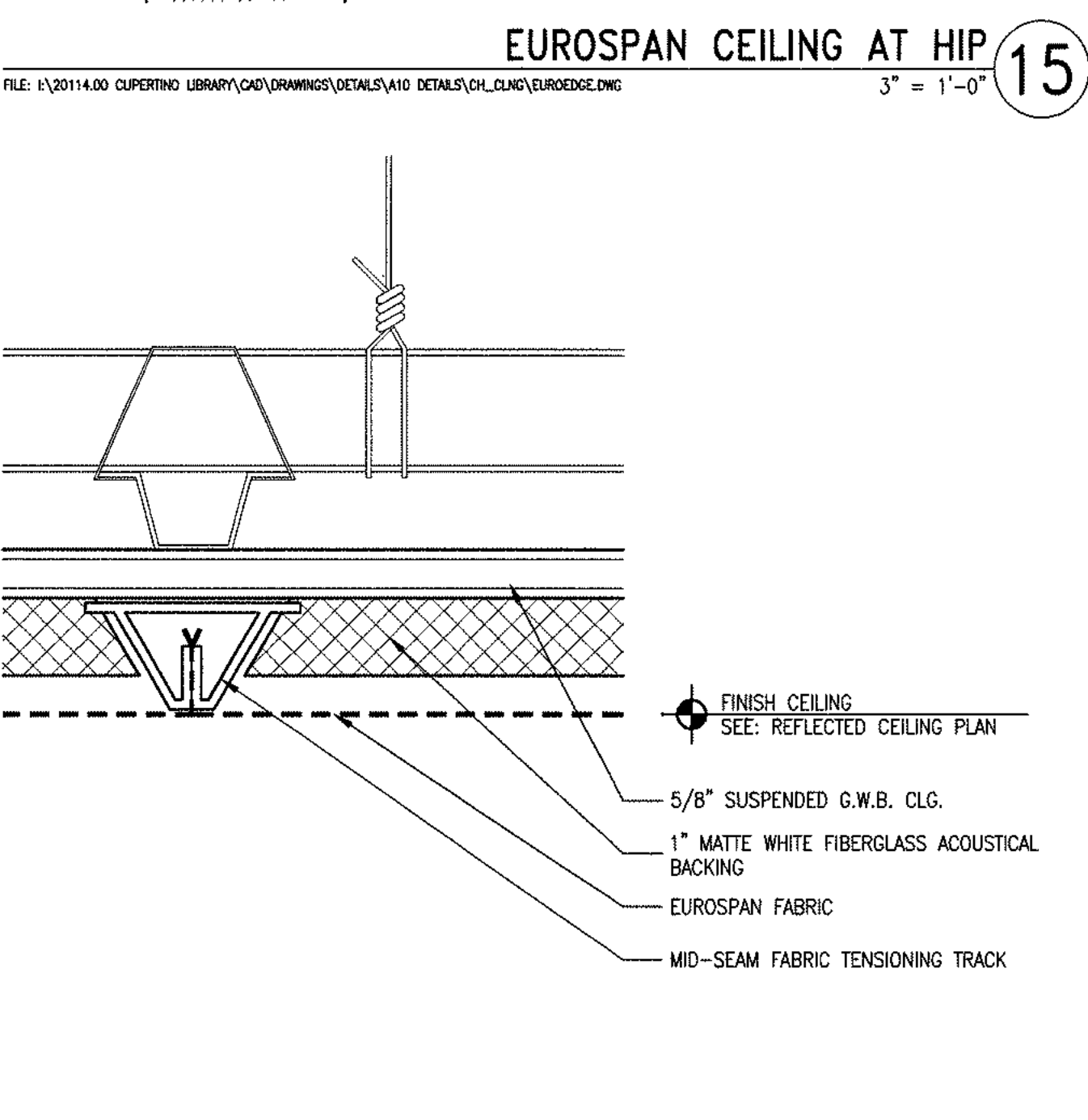
GRID CEILING ATTACHMENT 7
NO SCALE



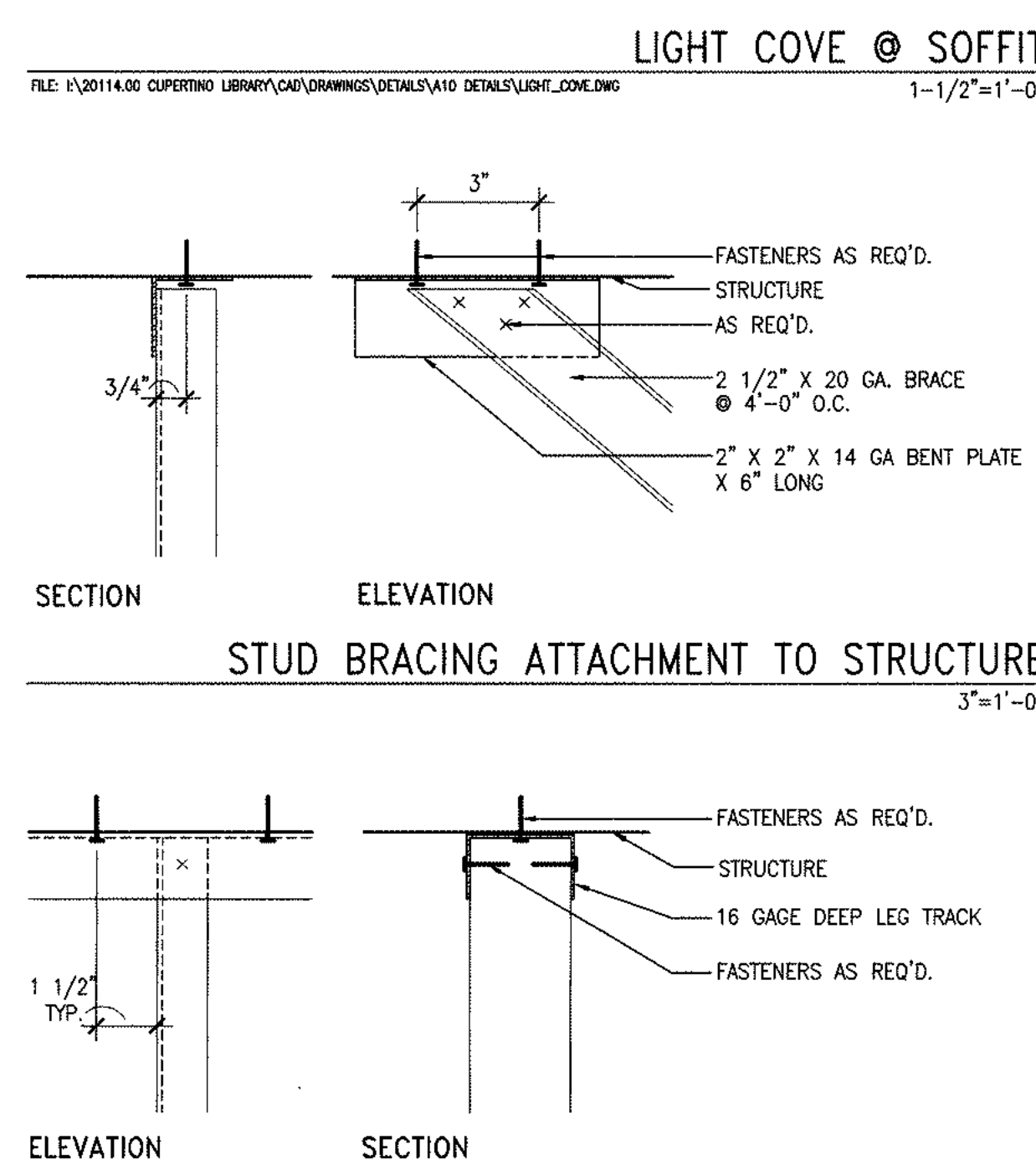
SPRAYED SEISMIC BRACING ATTACHMENT 4
NO SCALE



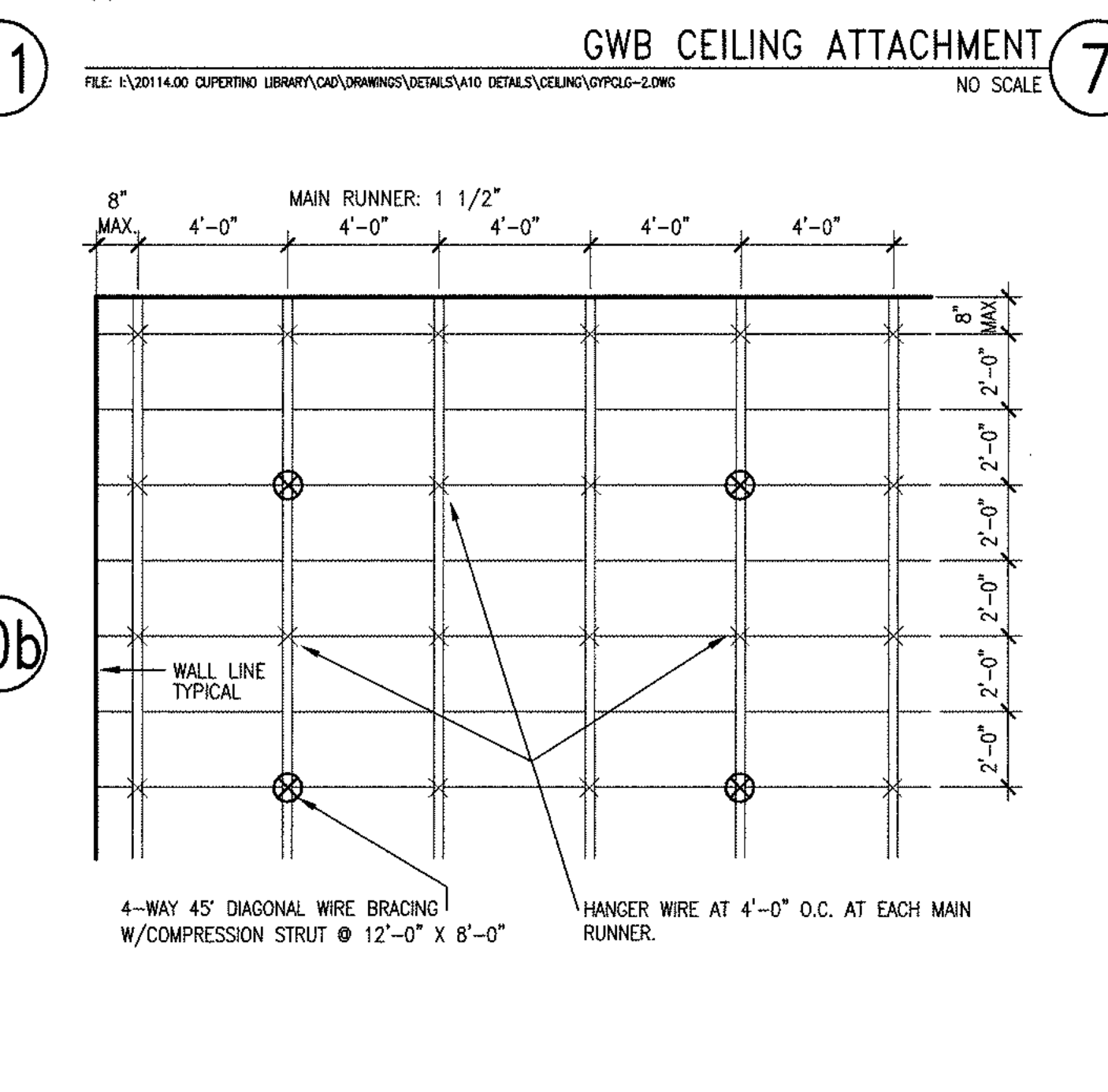
EUROSPAN CEILING AT RECESSED FIRE SPRINKLER 18
3" = 1'-0"



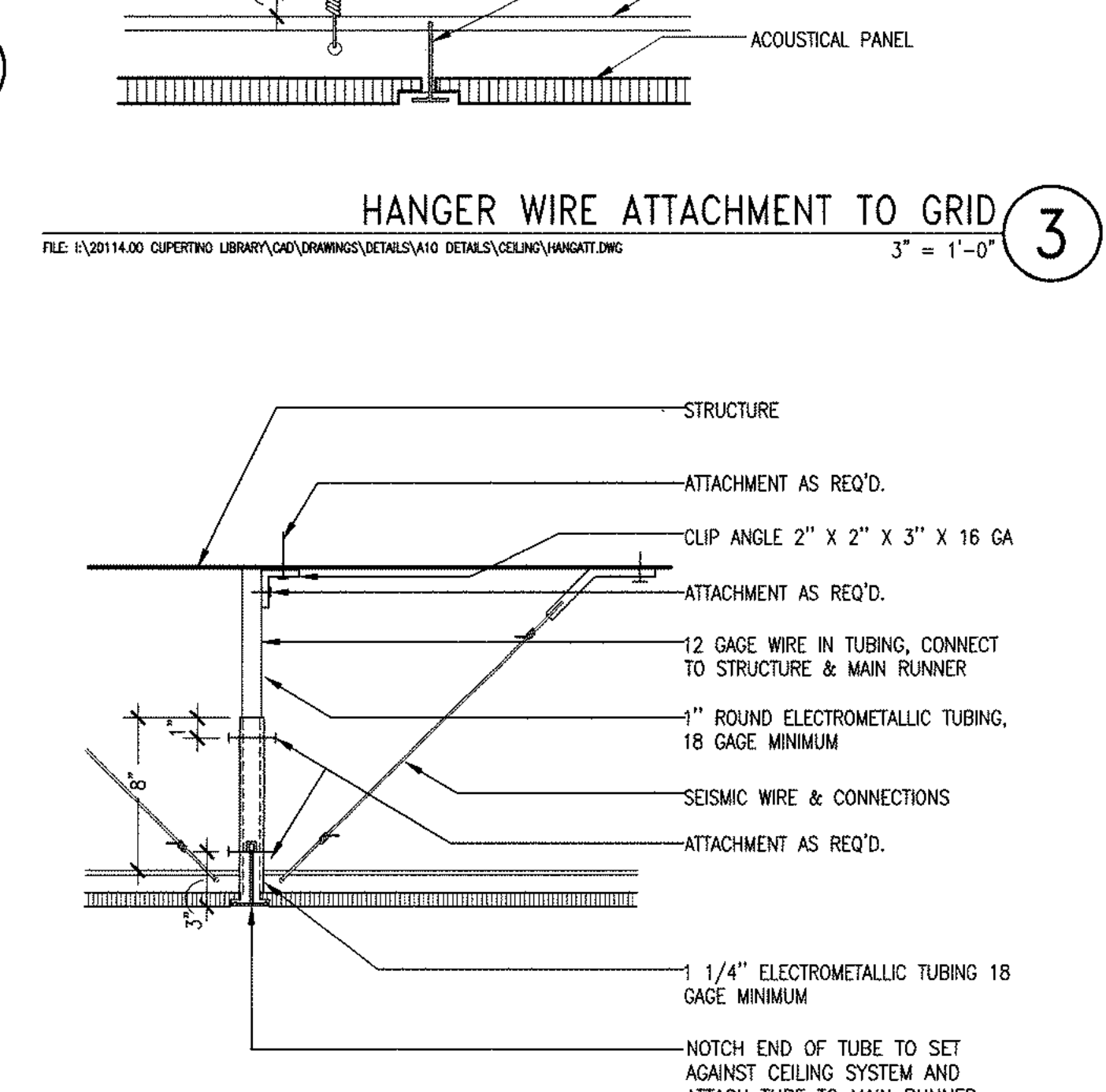
EUROSPAN TYP. MID-SEAM JOINT 14
6" = 1'-0"



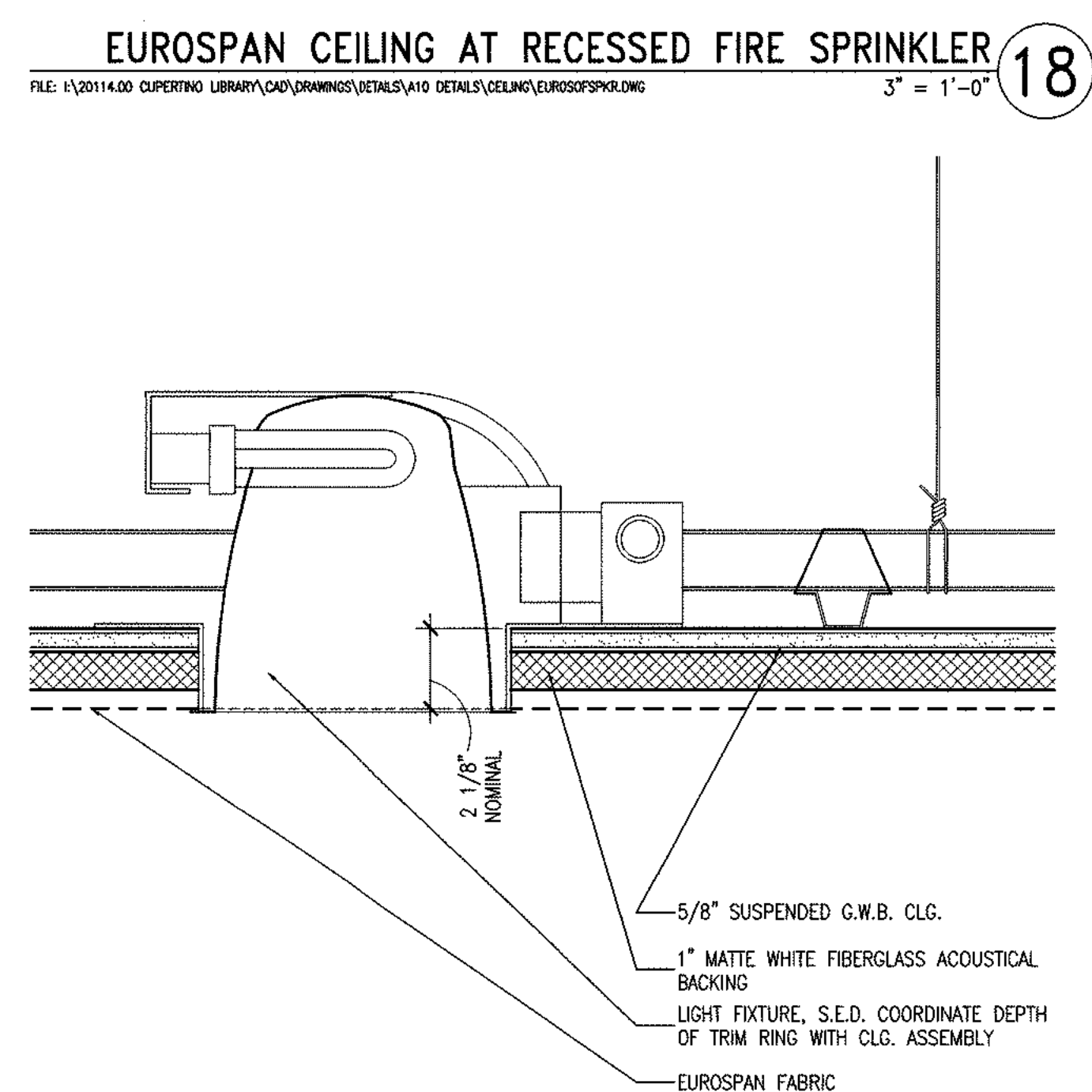
HUNG STUD ATTACHMENT TO STRUCTURE 10a
3" = 1'-0"



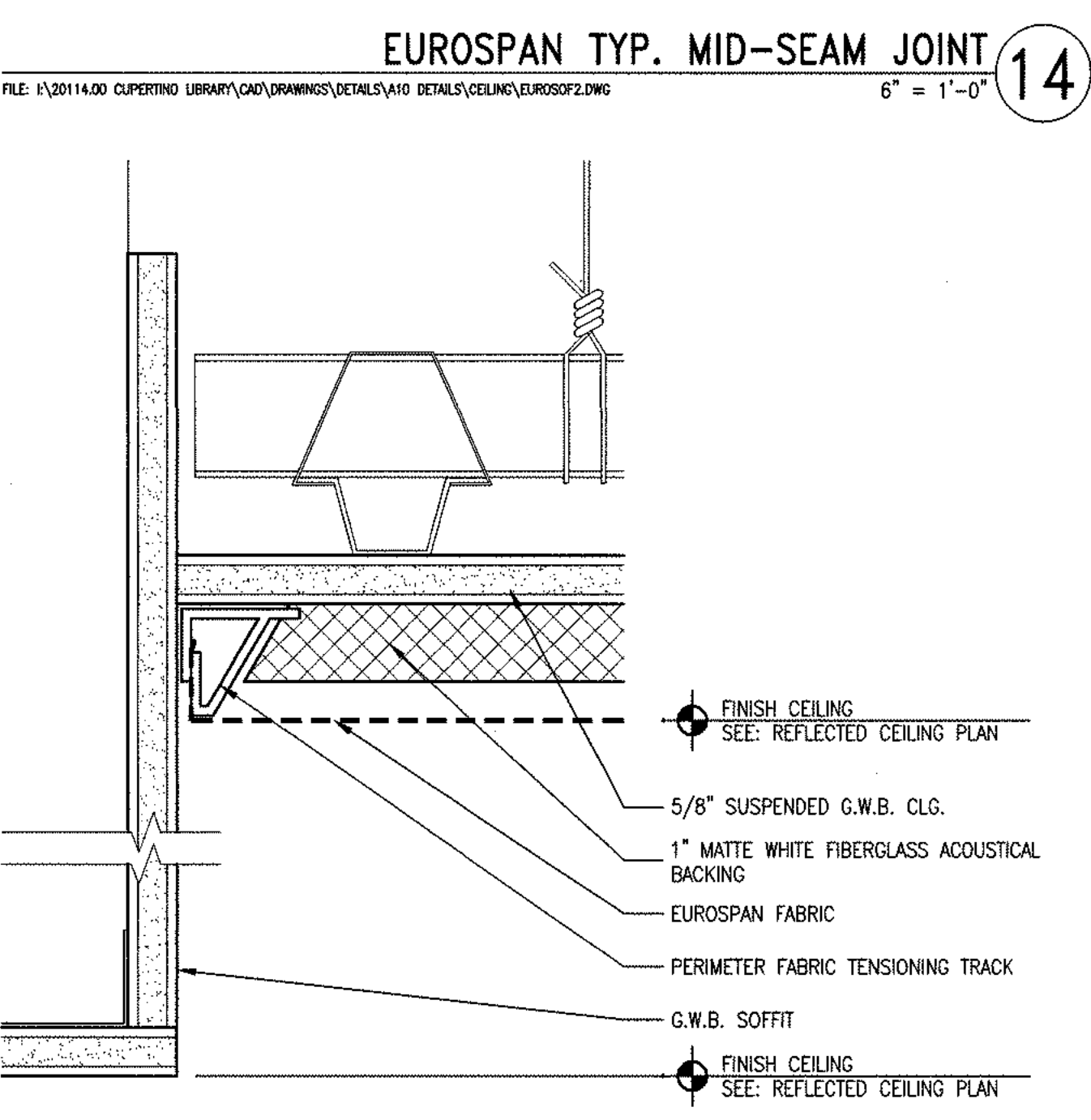
DIAGRAMMATIC GWB CEILING PLAN 6
NO SCALE



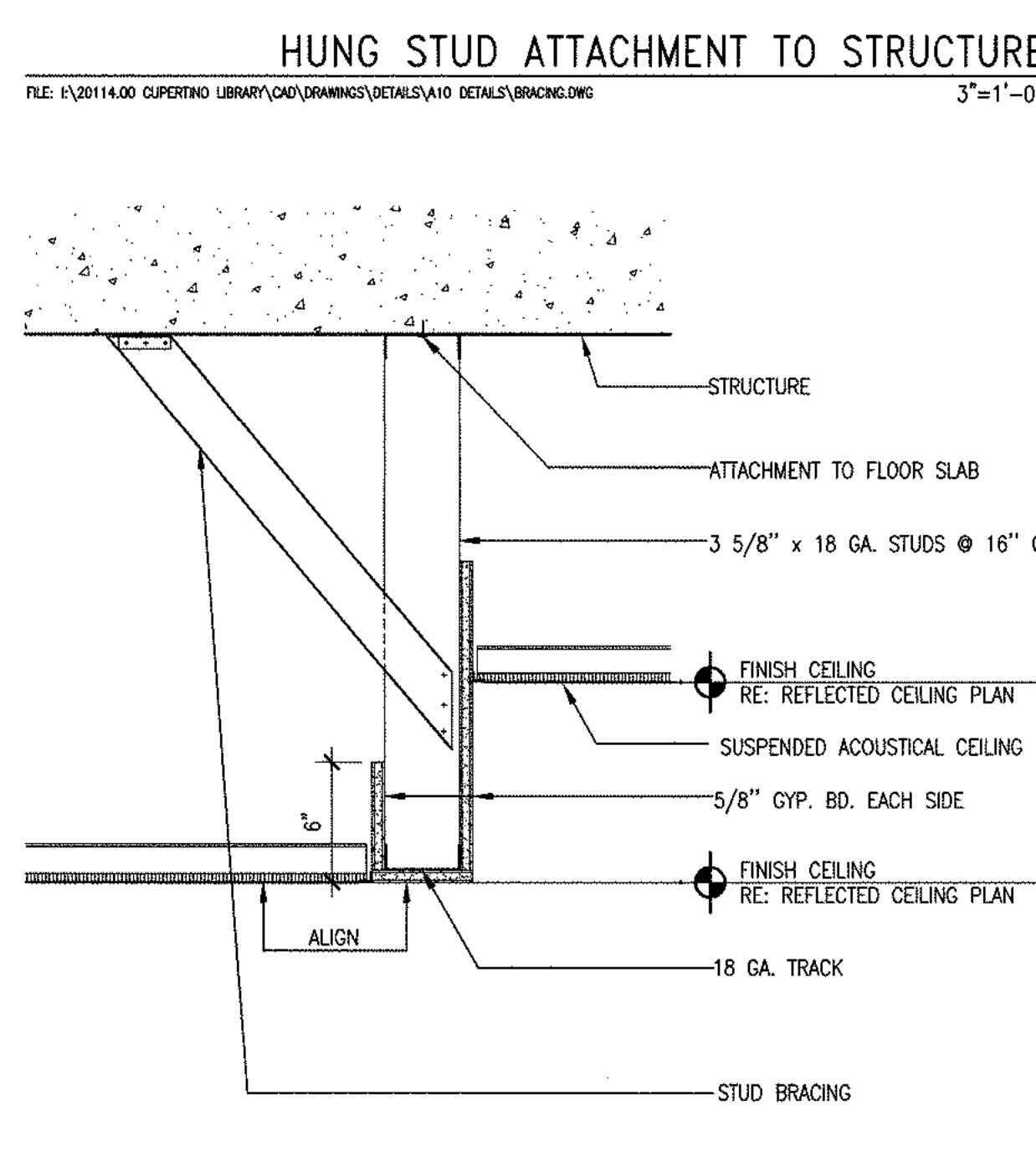
HANGER WIRE ATTACHMENT TO GRID 3
3" = 1'-0"



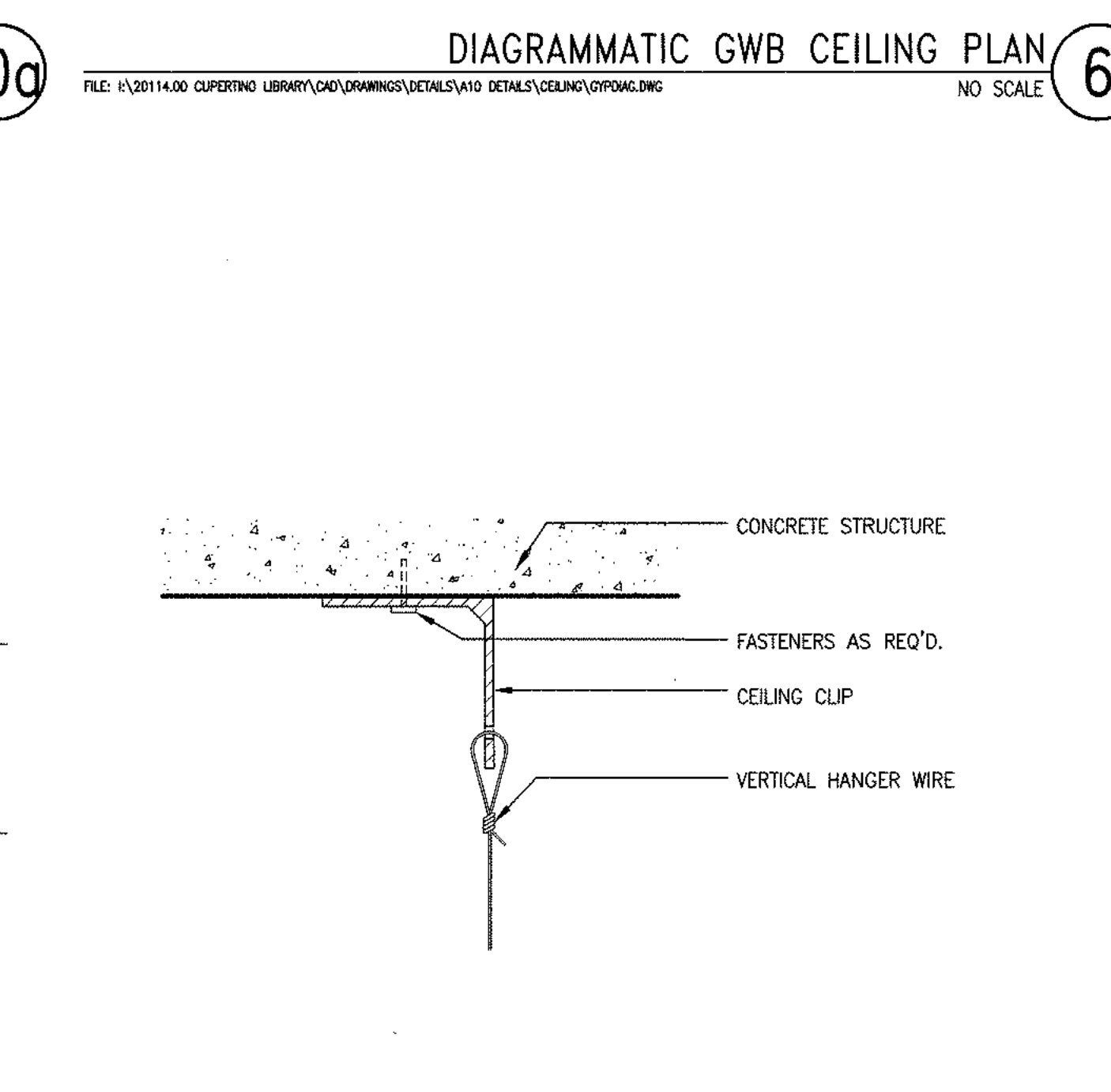
EUROSPAN CEILING AT RECESSED LIGHT FIXTURE 17
3" = 1'-0"



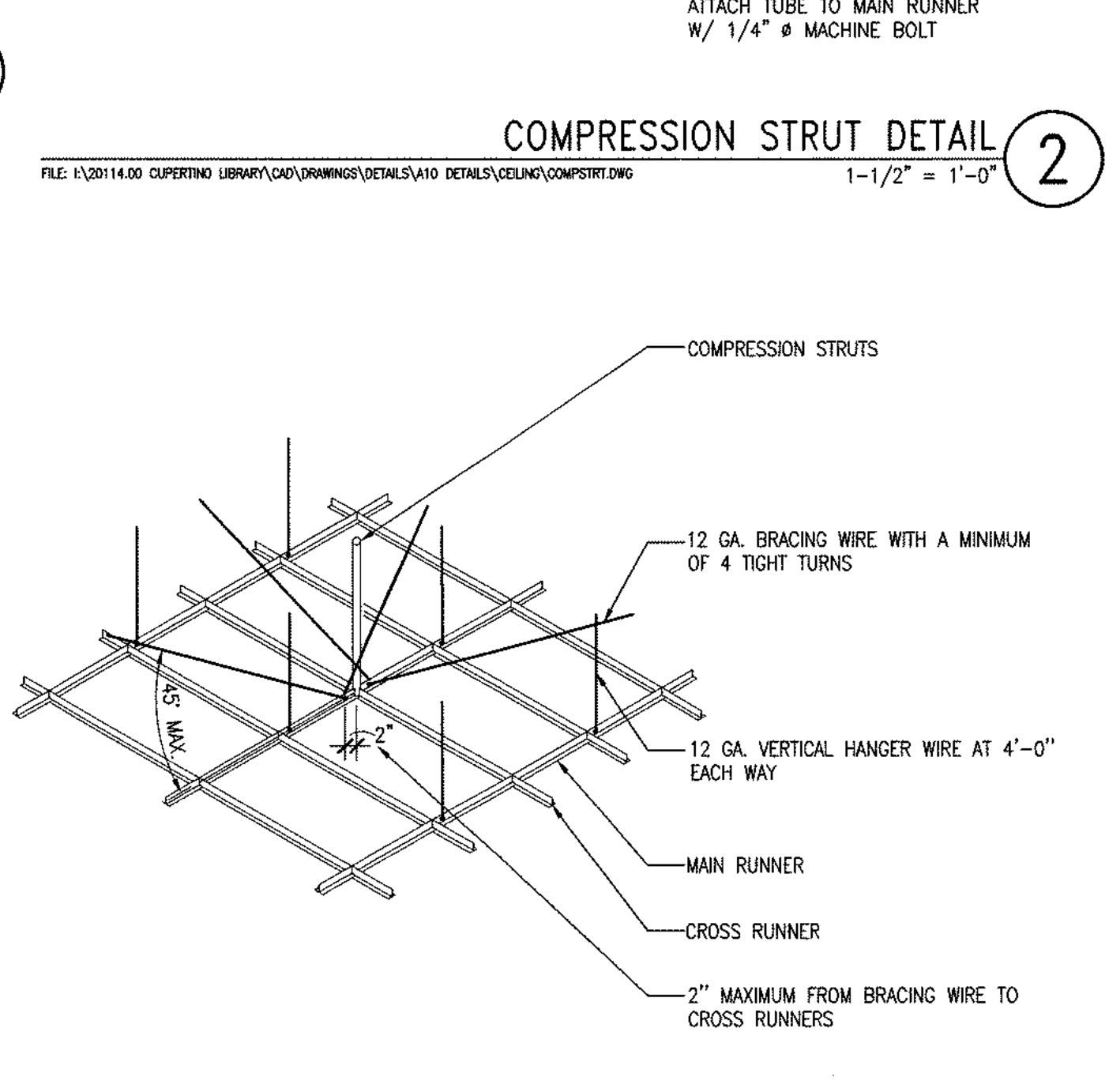
EUROSPAN EDGE @ SOFFIT 13
6" = 1'-0"



SOFFIT 9
1-1/2" = 1'-0"



VERTICAL HANGER WIRE ATTACHMENT 5
NO SCALE



ACOUSTICAL CEILING GRID ATTACHMENT 1
NO SCALE

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SWMM
988 Market Street, 3rd Floor, San Francisco, CA 94103
415.546.0400 T
415.867.7098 F
www.swmm.com

architecture
interiors
planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Elesser
Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 485 4085 T
415 485 4660 F

revisions
2003.11.03 CCD 13 DELTA 15

11-29-04 Updated
Contract Documents

stamp
LICENSED ARCHITECT
LINDA A. SCHULTZ
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

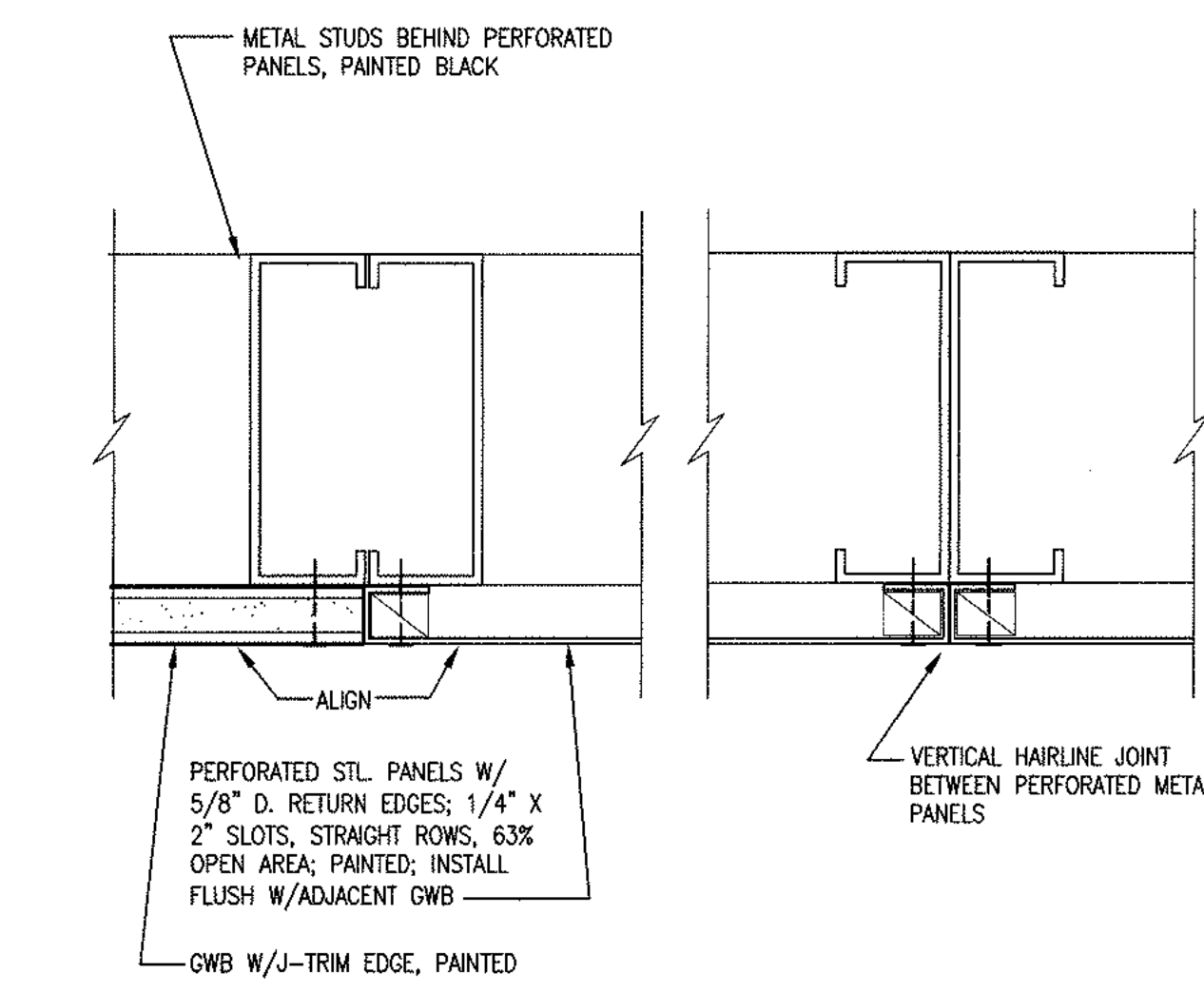
BID SET

sheet title

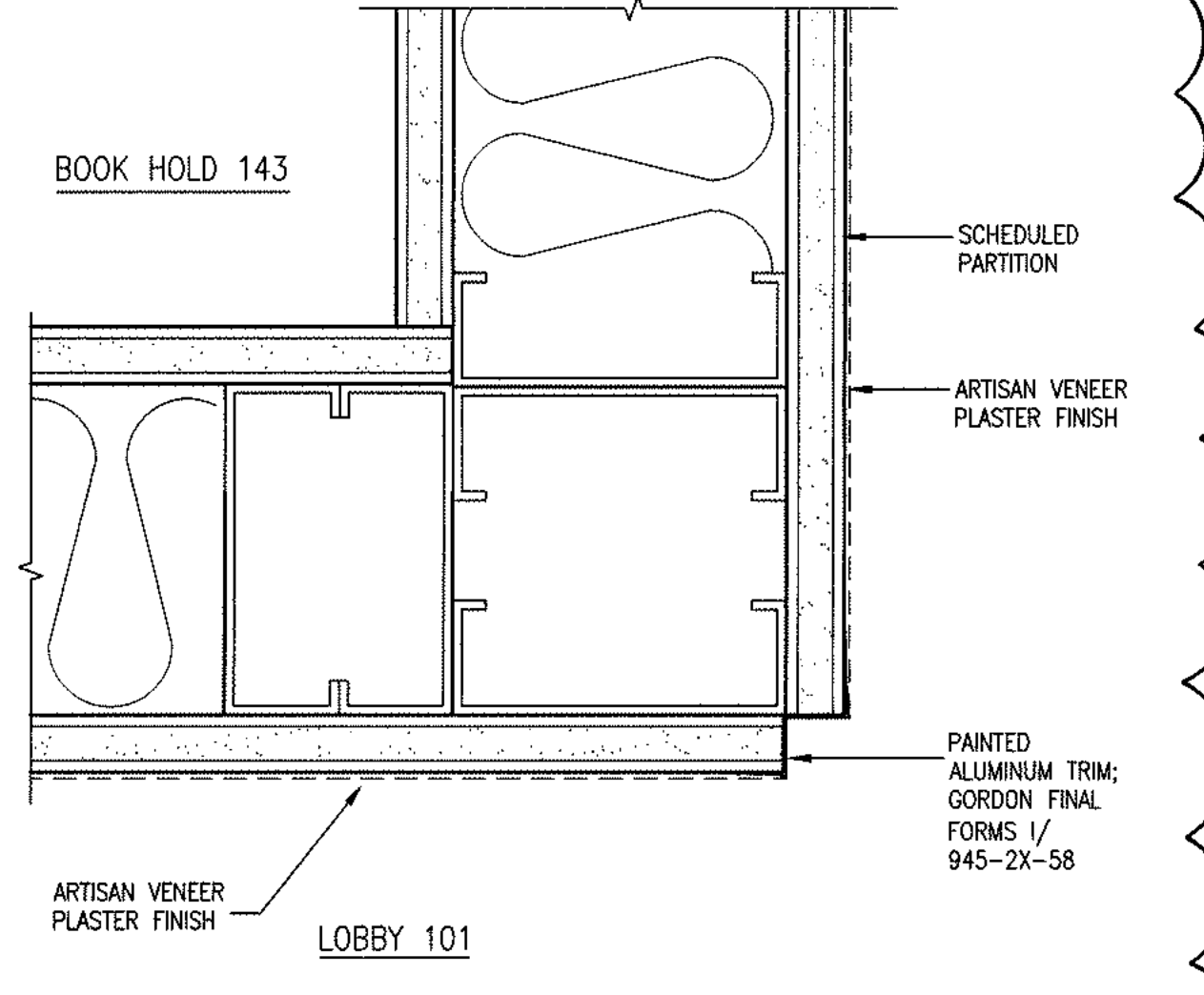
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drawn by LR project number 201114.00
sheet number

A10.05

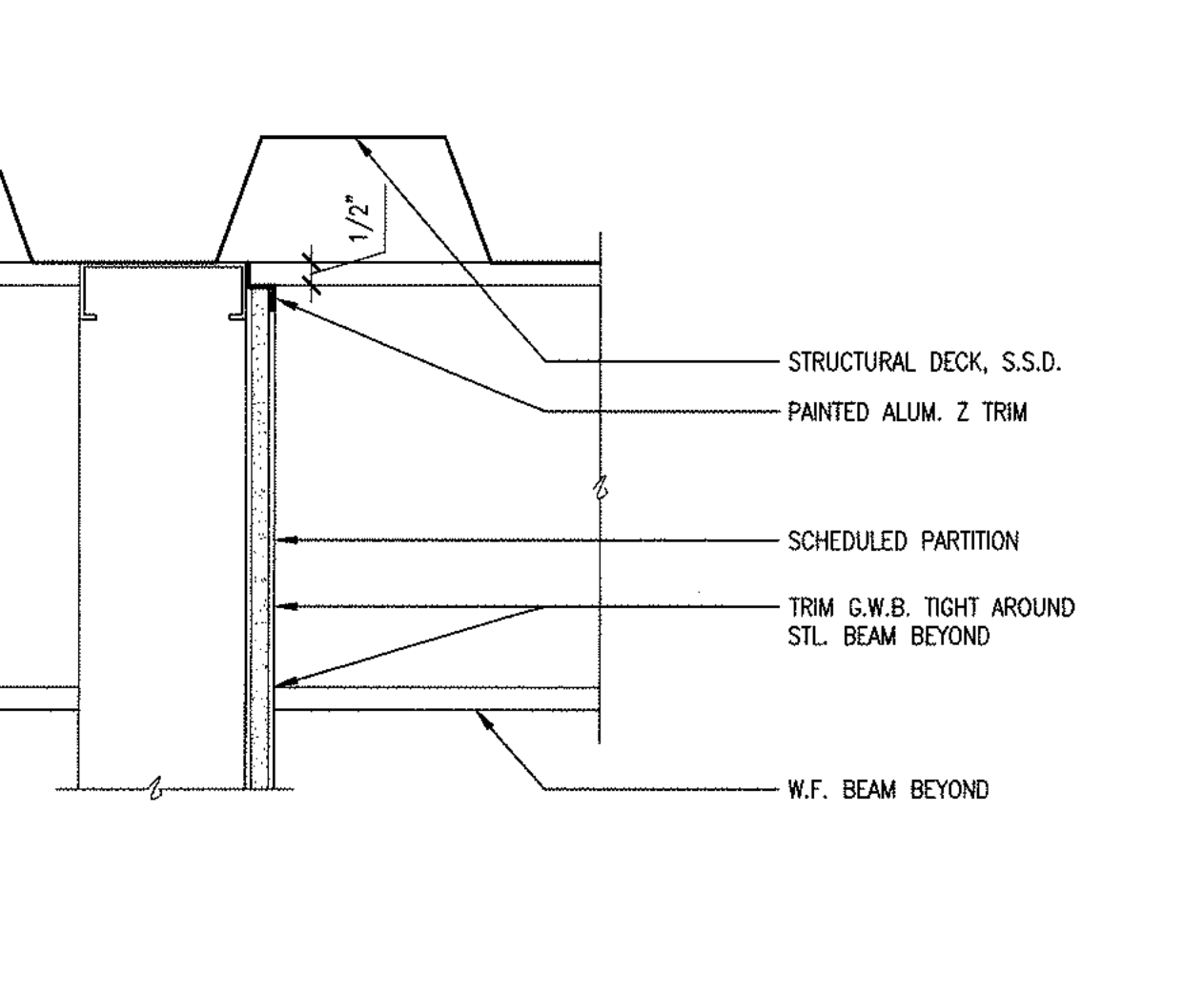
CEILING
DETAILS



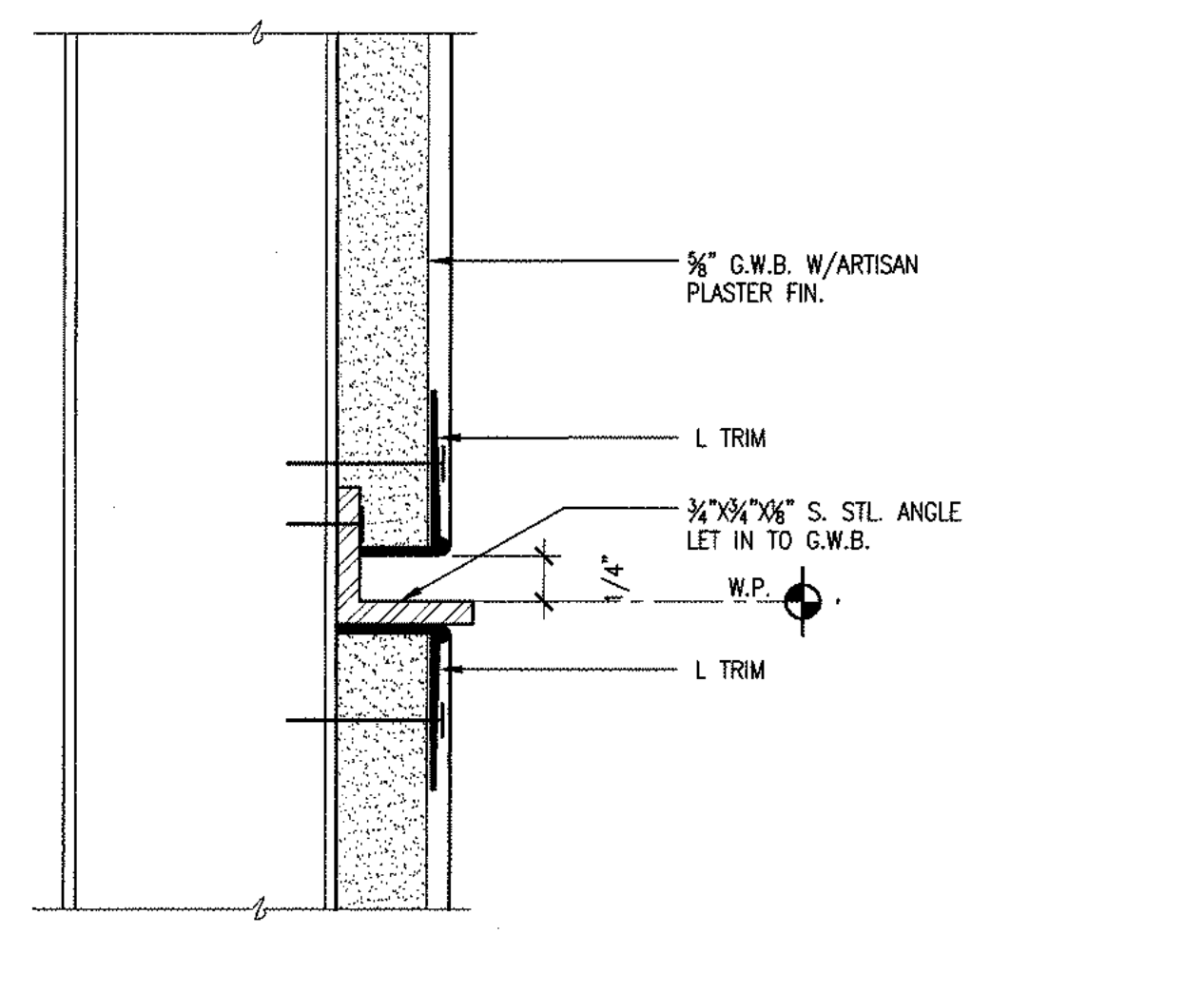
RETURN AIR GRILLE ABOVE BOOK HOLD 143 20
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 6" = 1'-0"



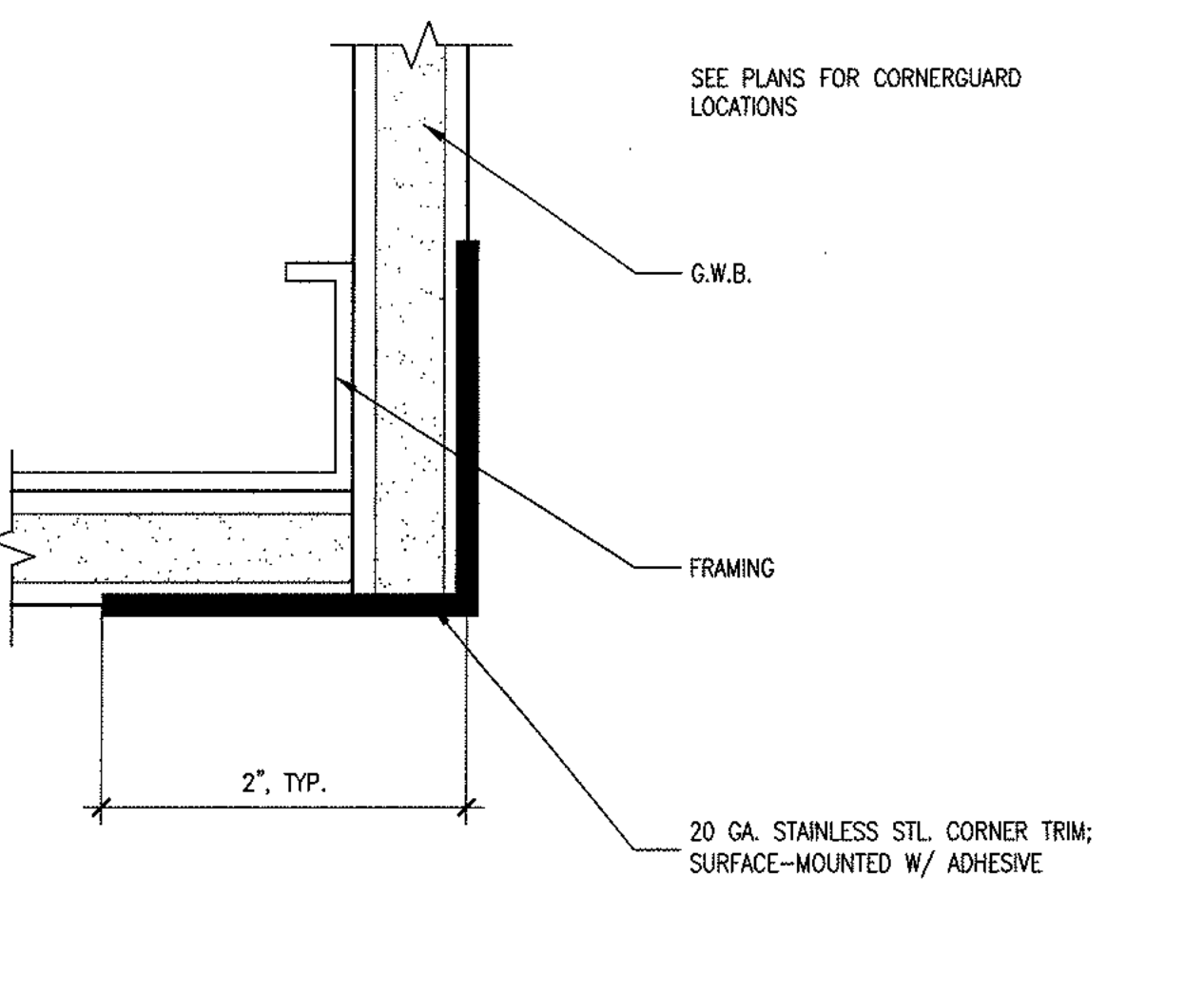
ARTISAN VENEER PLASTER CORNER 16
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 HALF SIZE



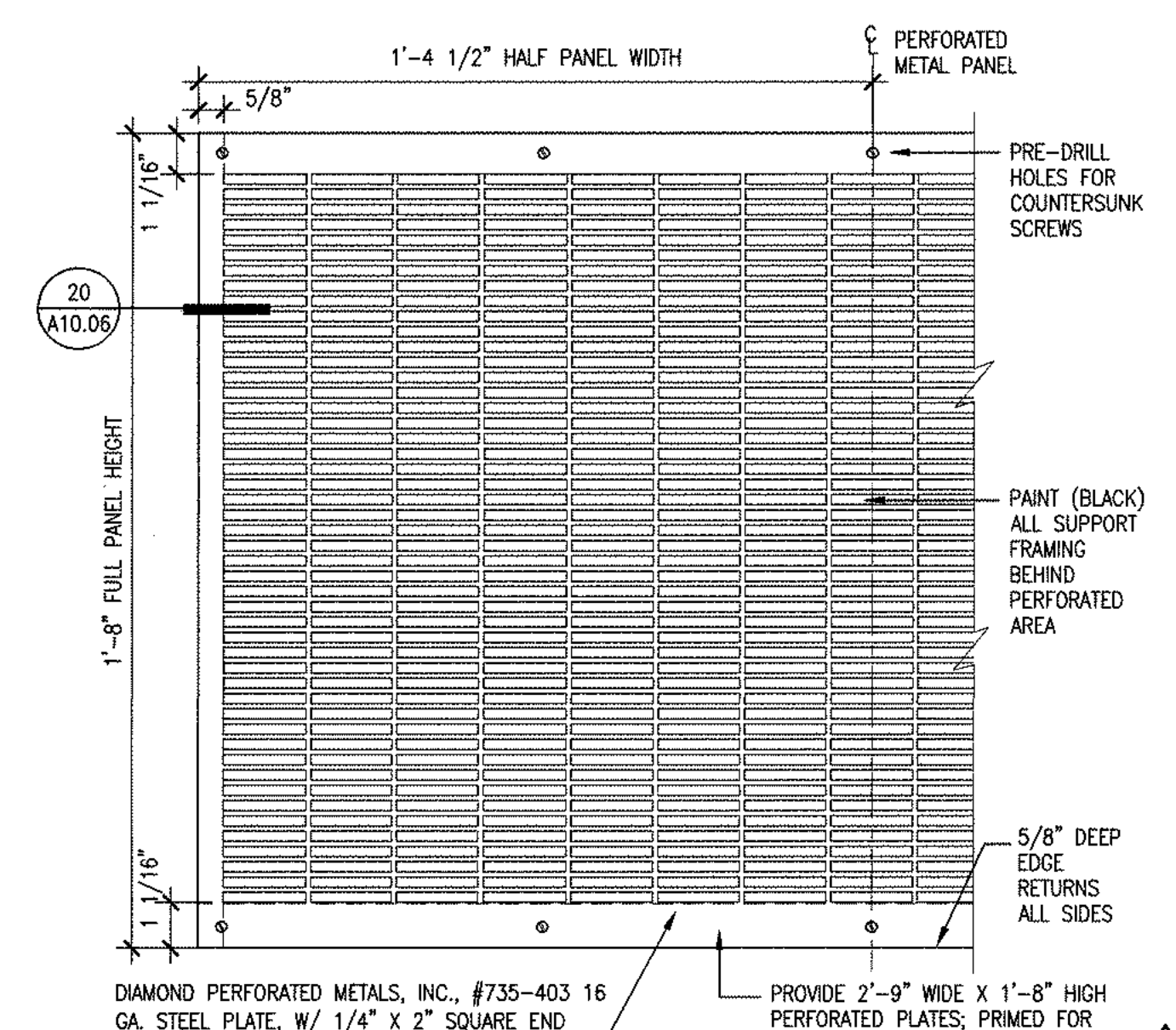
G.W.B. FINISH @ EXPOSED STRUCTURAL DECKING 12
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 3" = 1'-0"



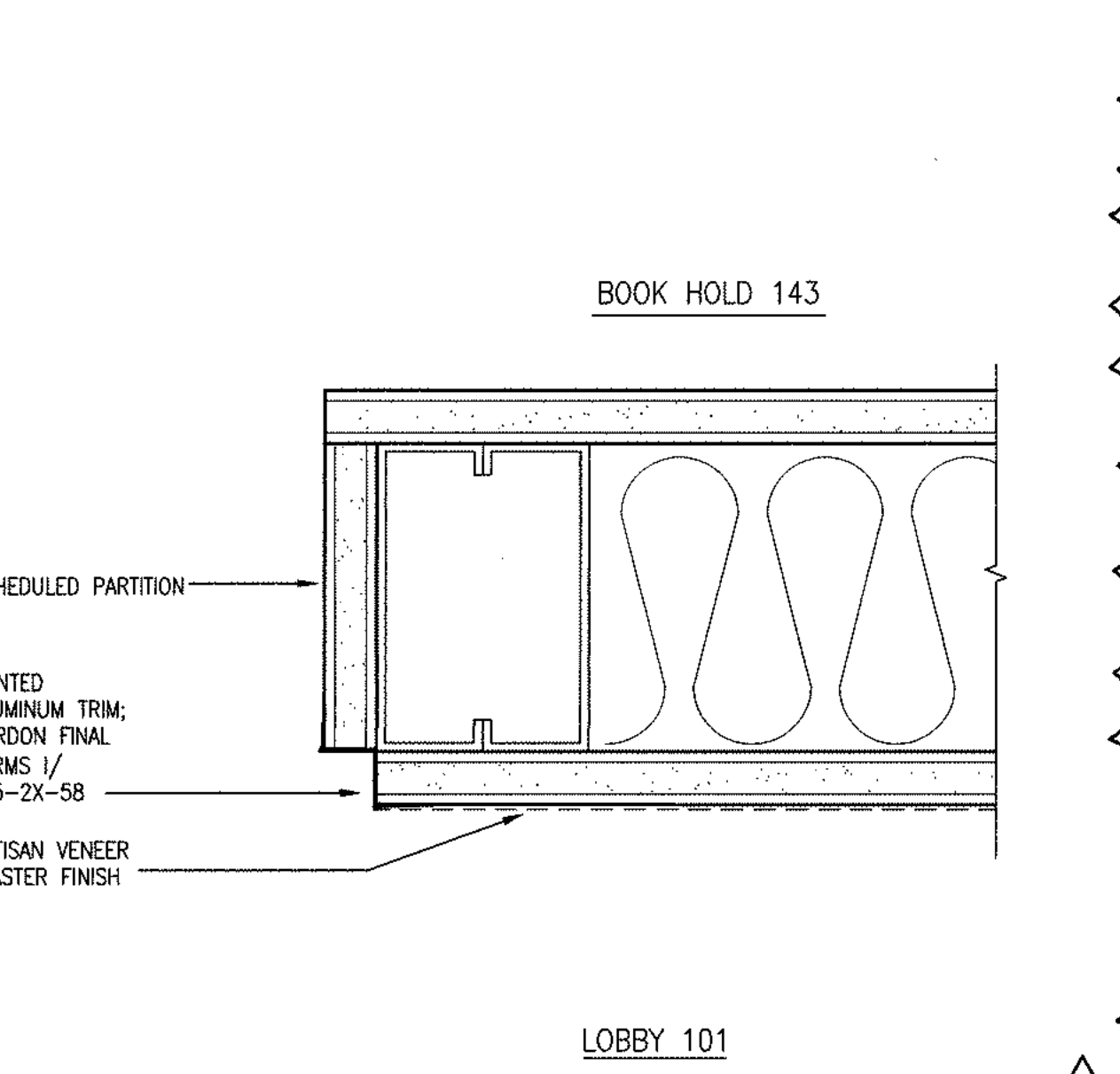
S. STL. CHAIR RAIL @ LOBBY 8
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 FULL SCALE



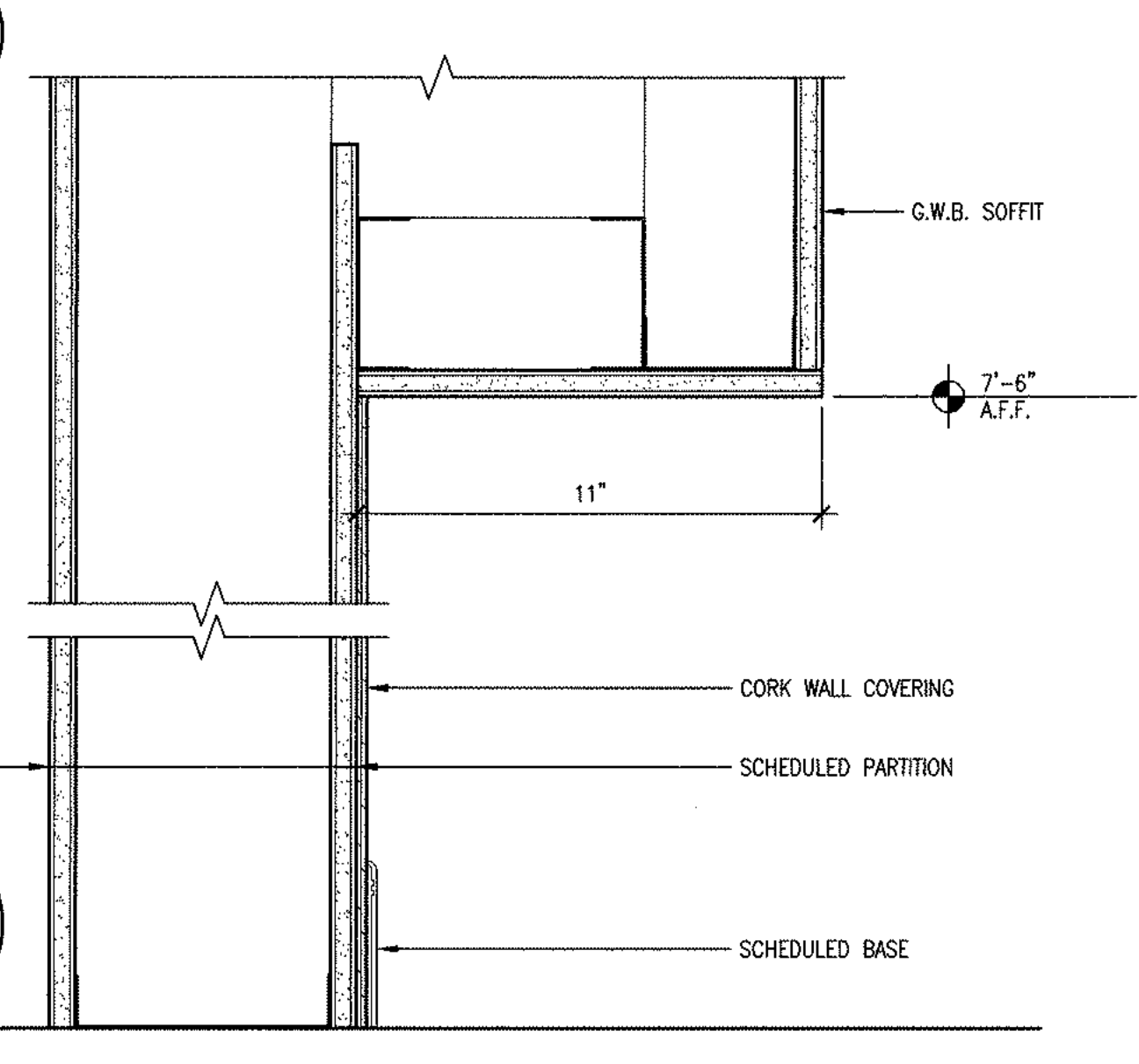
CORNERGUARD 4
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 FULL SCALE



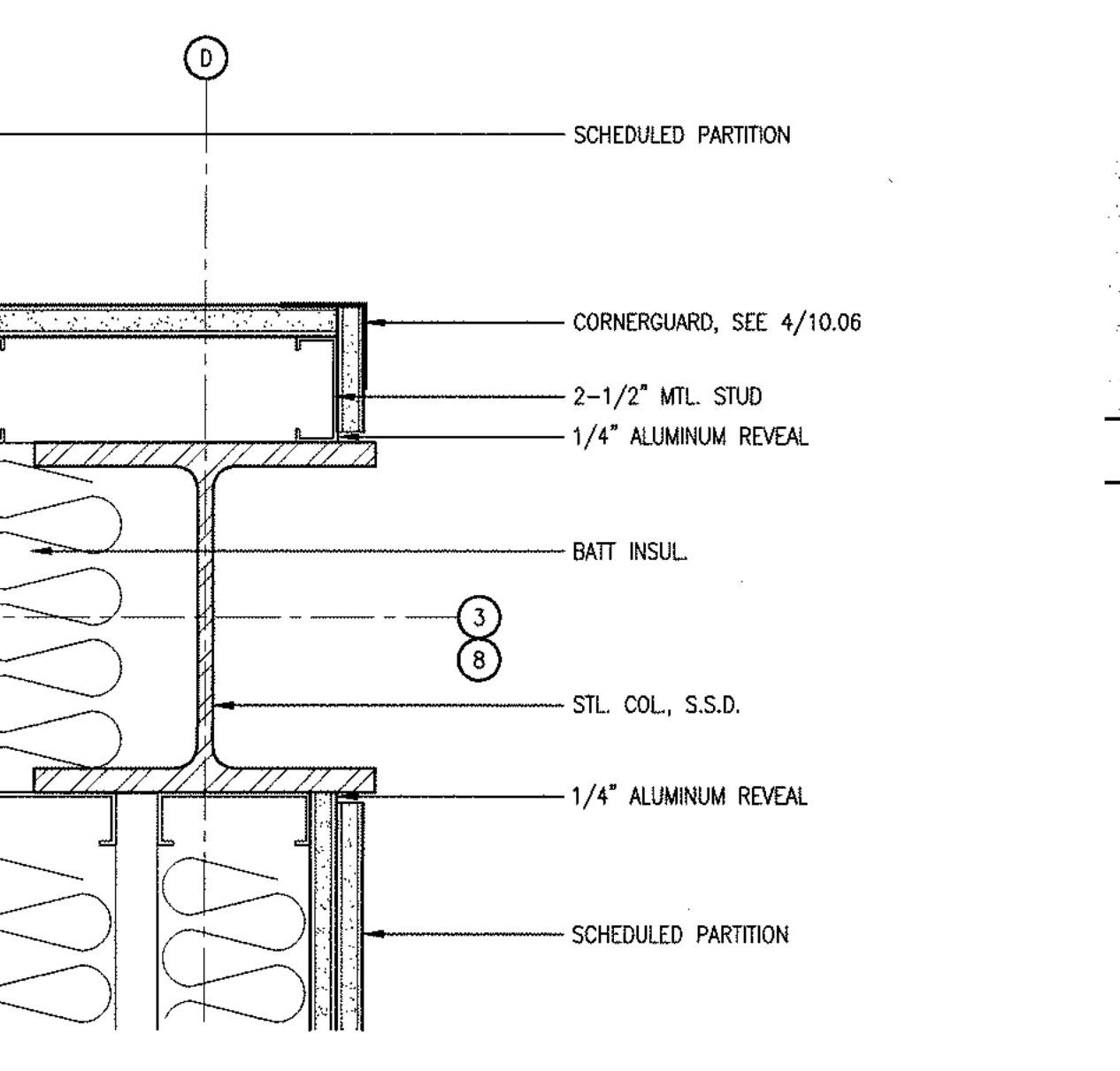
ELEVATION - RETURN AIR GRILLE 19
 FILE: I:\20114.00_CUPERTINO_LIBRARY\CAD\DRAWINGS\DETAILS\A10_DETAIL\RETURN_AIR_GRILLE.ELEV.DWG
 3" = 1'-0"



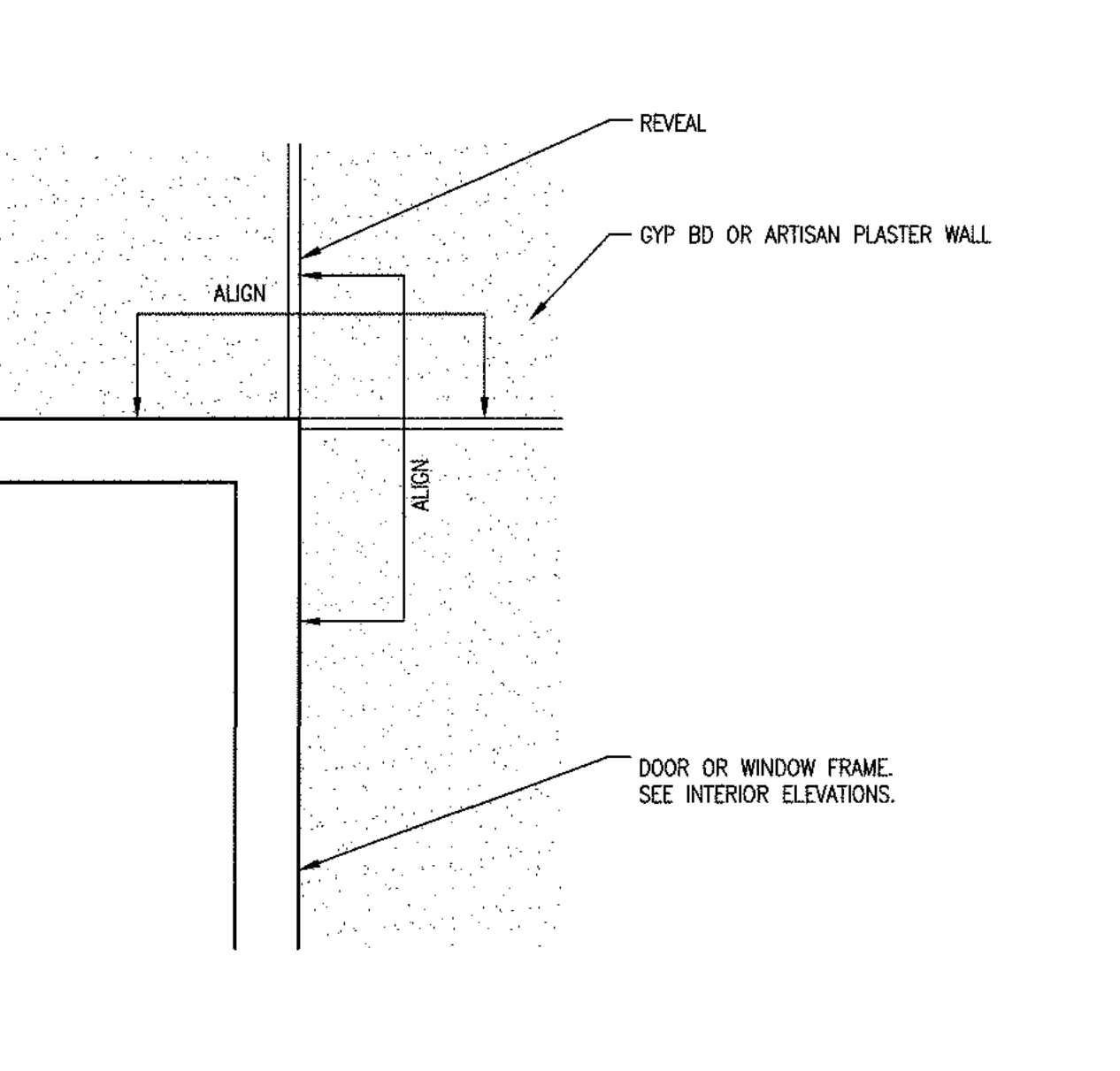
ARTISAN VENEER PLASTER CORNER LINES 15
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 3" = 1'-0"



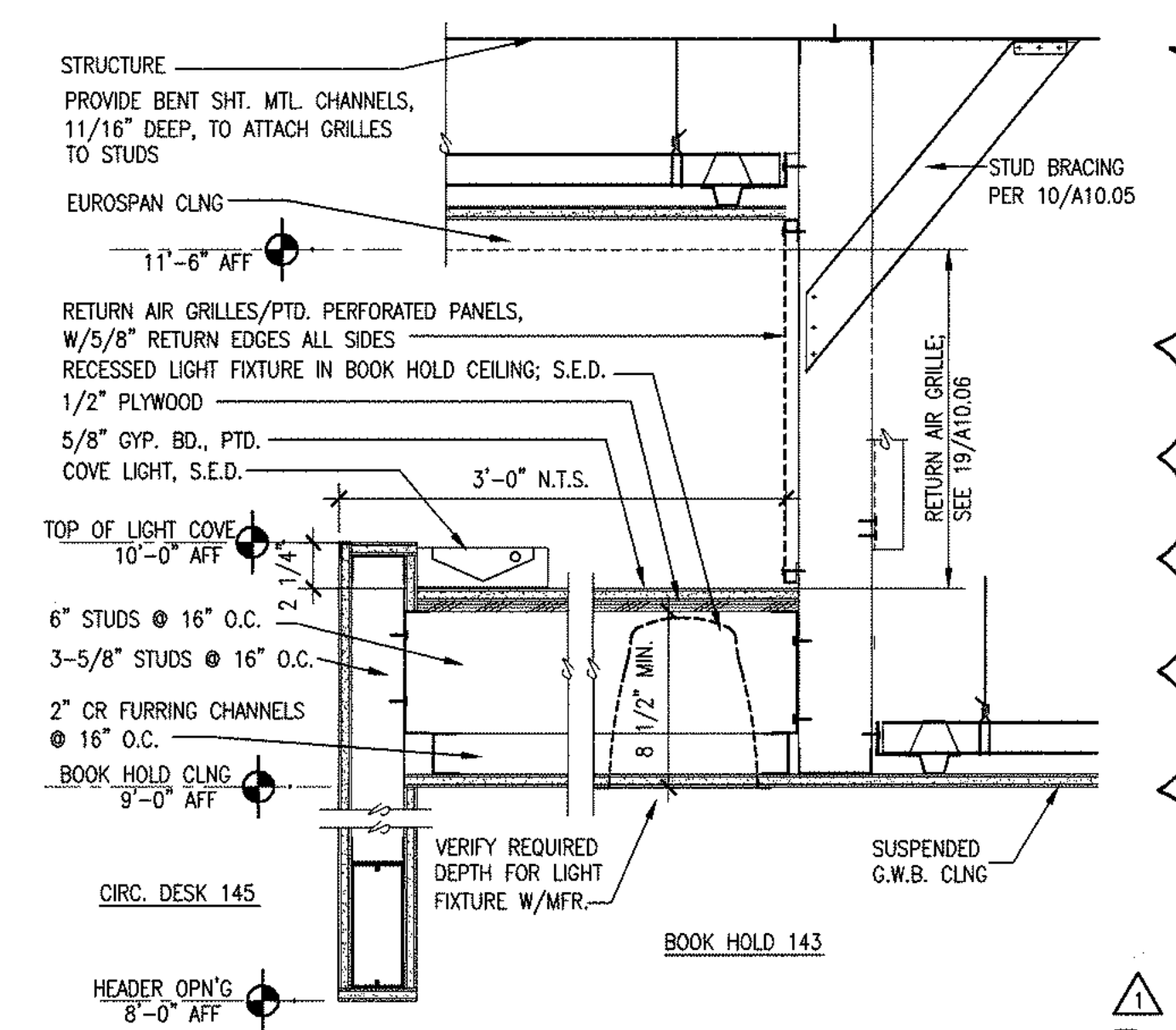
RECESSED CORK WALL COVERING 11
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 3" = 1'-0"



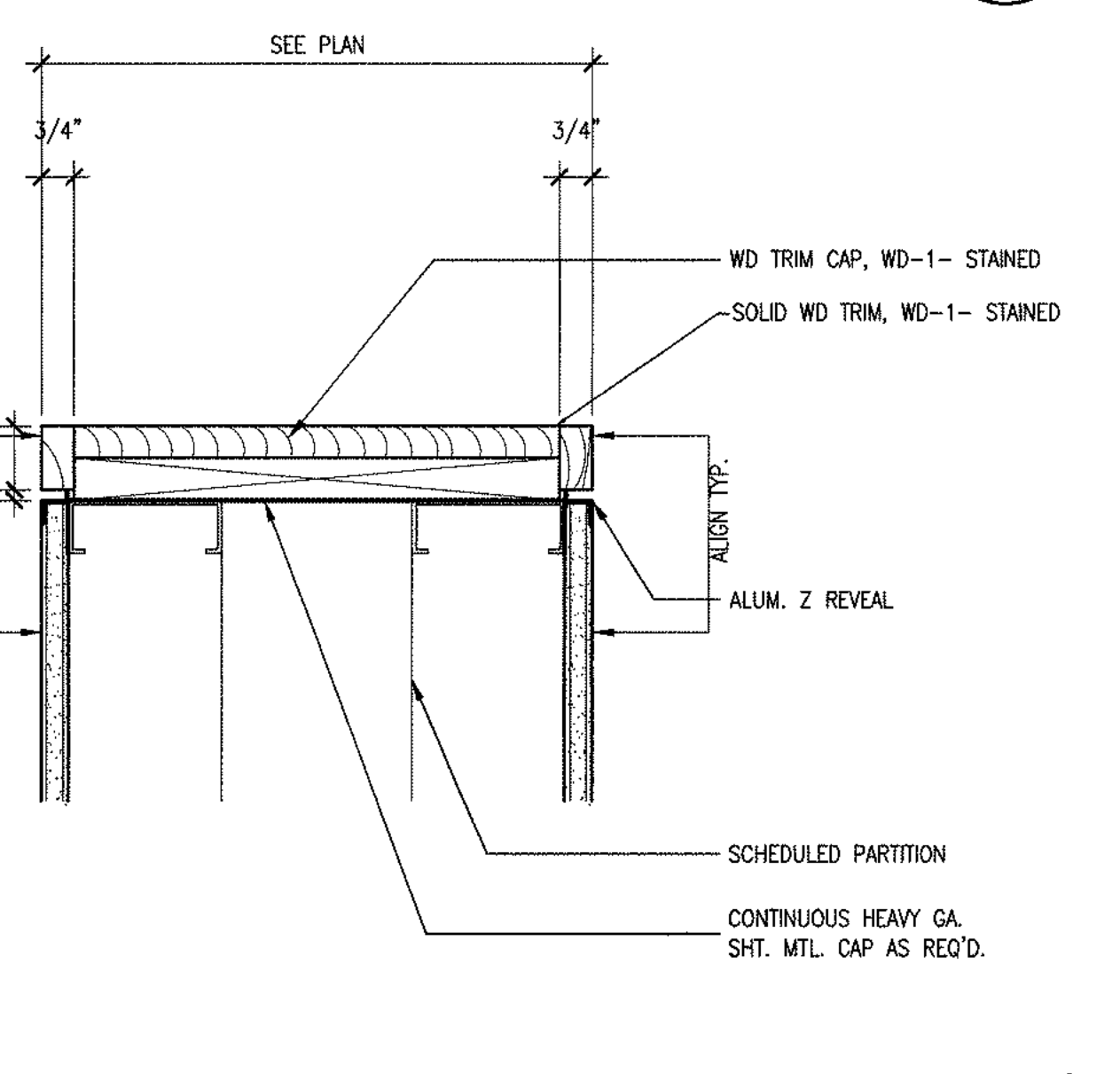
PLAN DETAIL AT COLUMN LINES D/3 & D/8 7
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 3" = 1'-0"



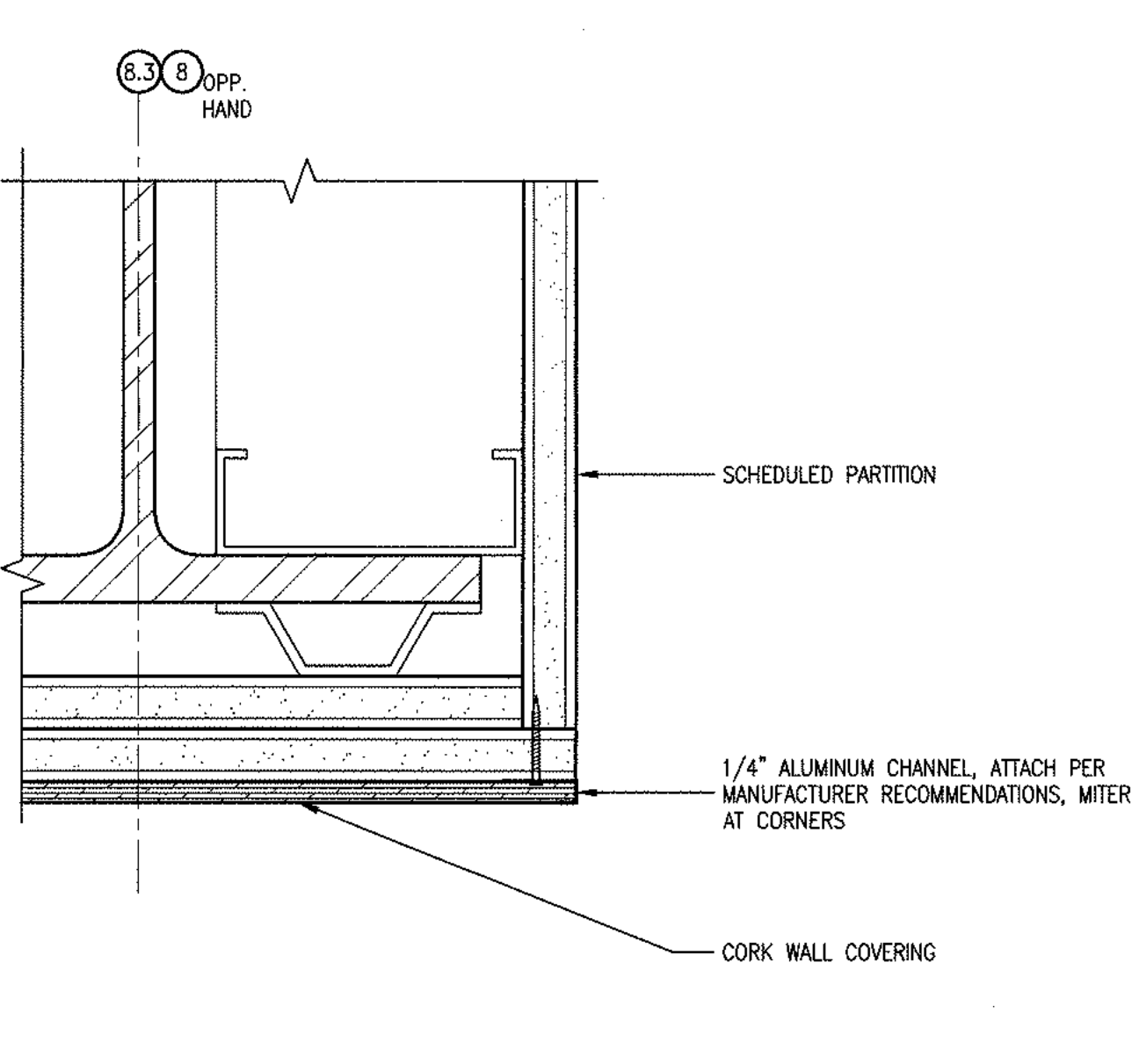
ELEVATION AT REVEAL 3
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 3" = 1'-0"



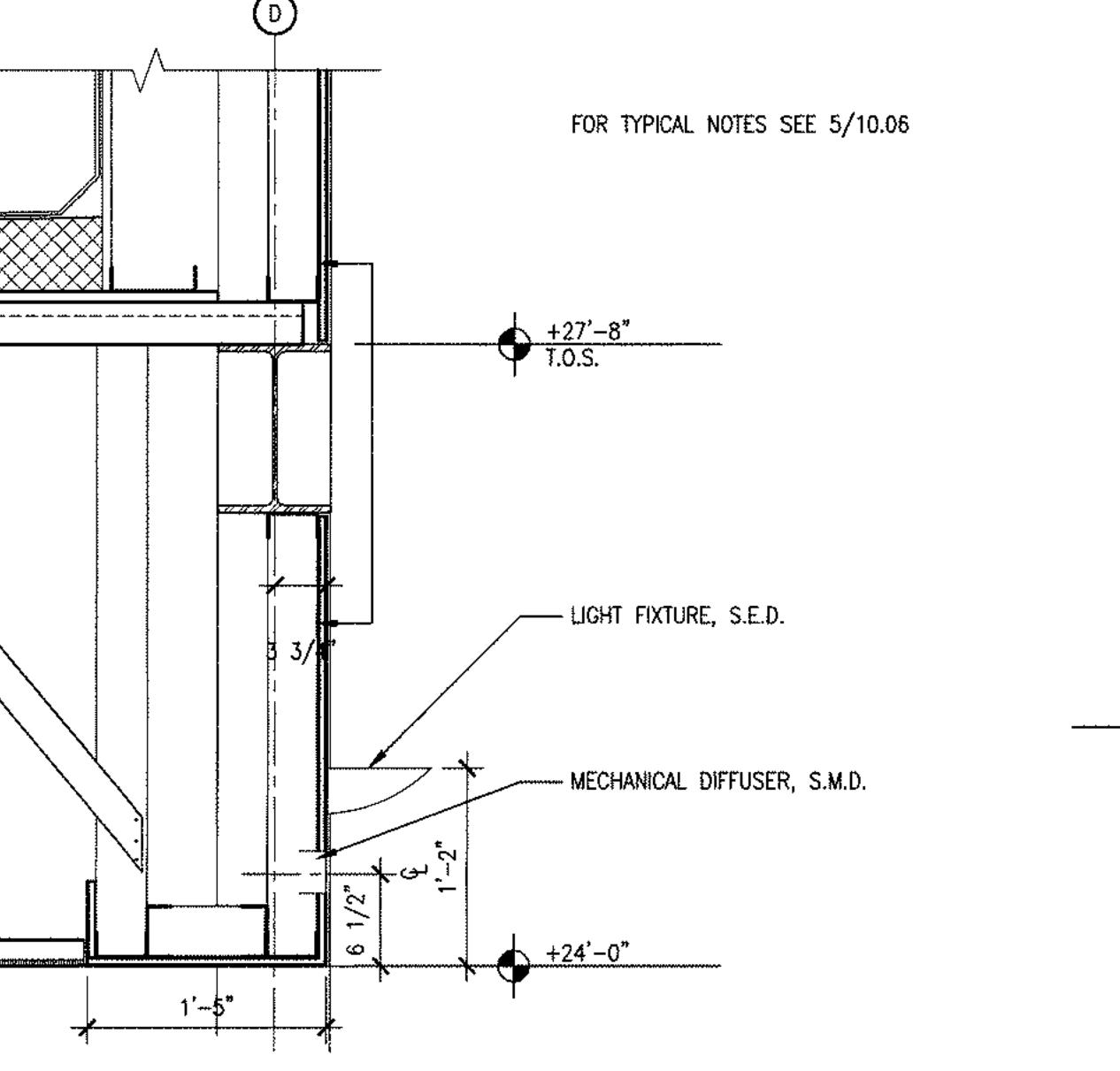
LIGHT COVE ABOVE BOOK HOLD 143 18
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 1'-1/2" = 1'-0"



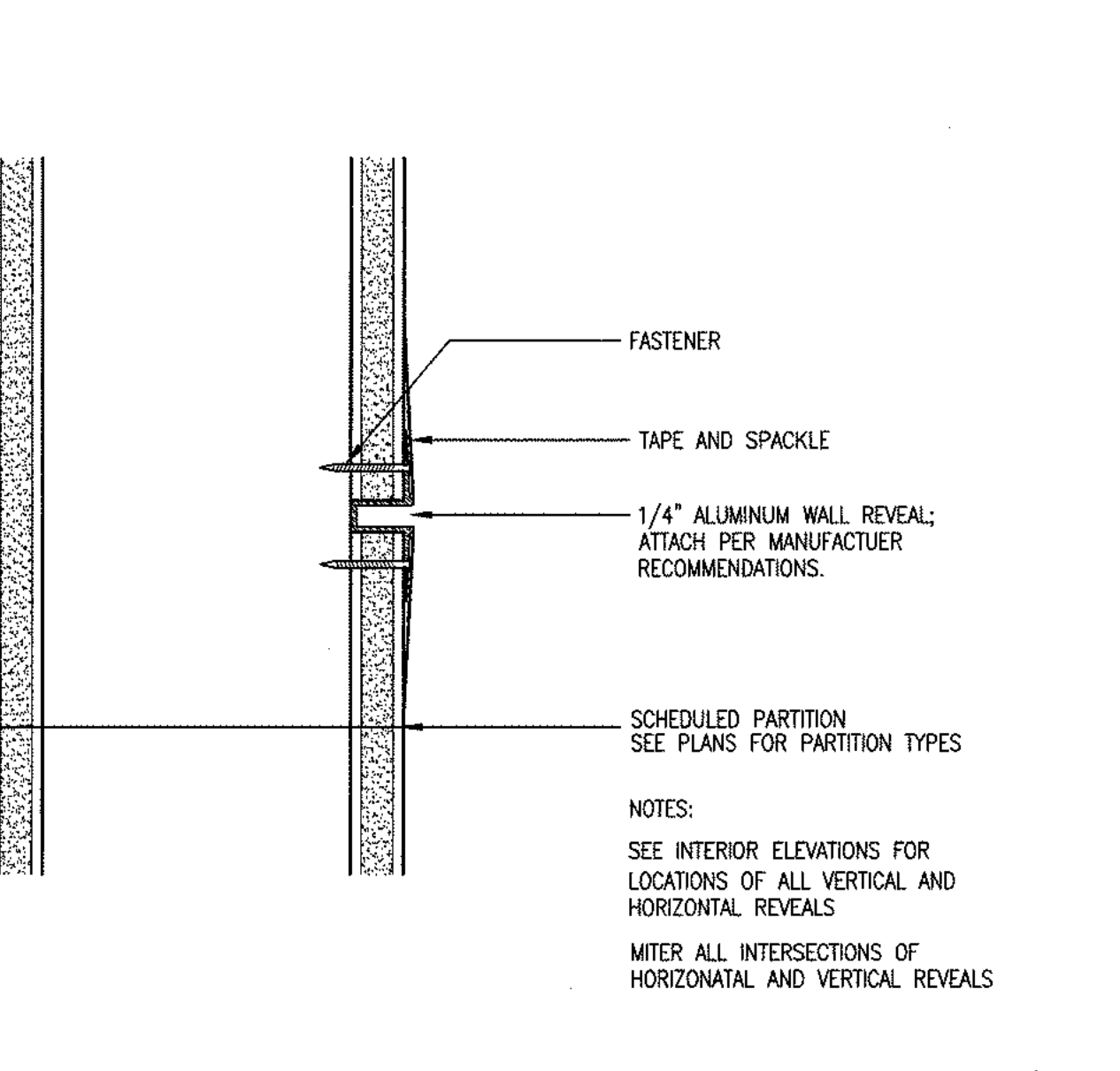
WOOD CAP 14
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 3" = 1'-0"



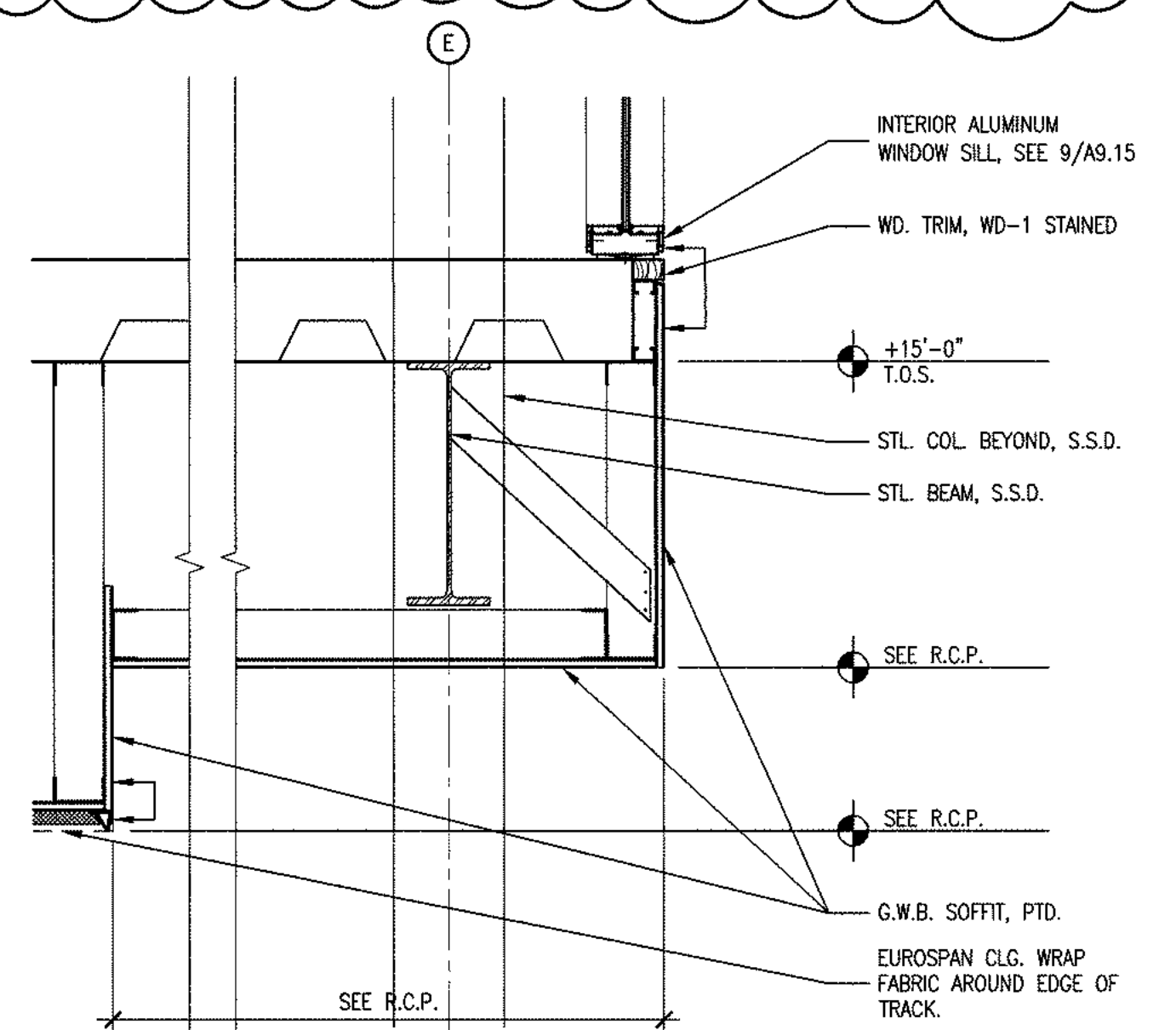
JAMB AT CORK WALL COVERING 10
 FILE: I:\20114.00_CUPERTINO_LIBRARY\CAD\DRAWINGS\DETAILS\A10_DETAIL\JAMB_WALL.DWG
 6" = 1'-0"



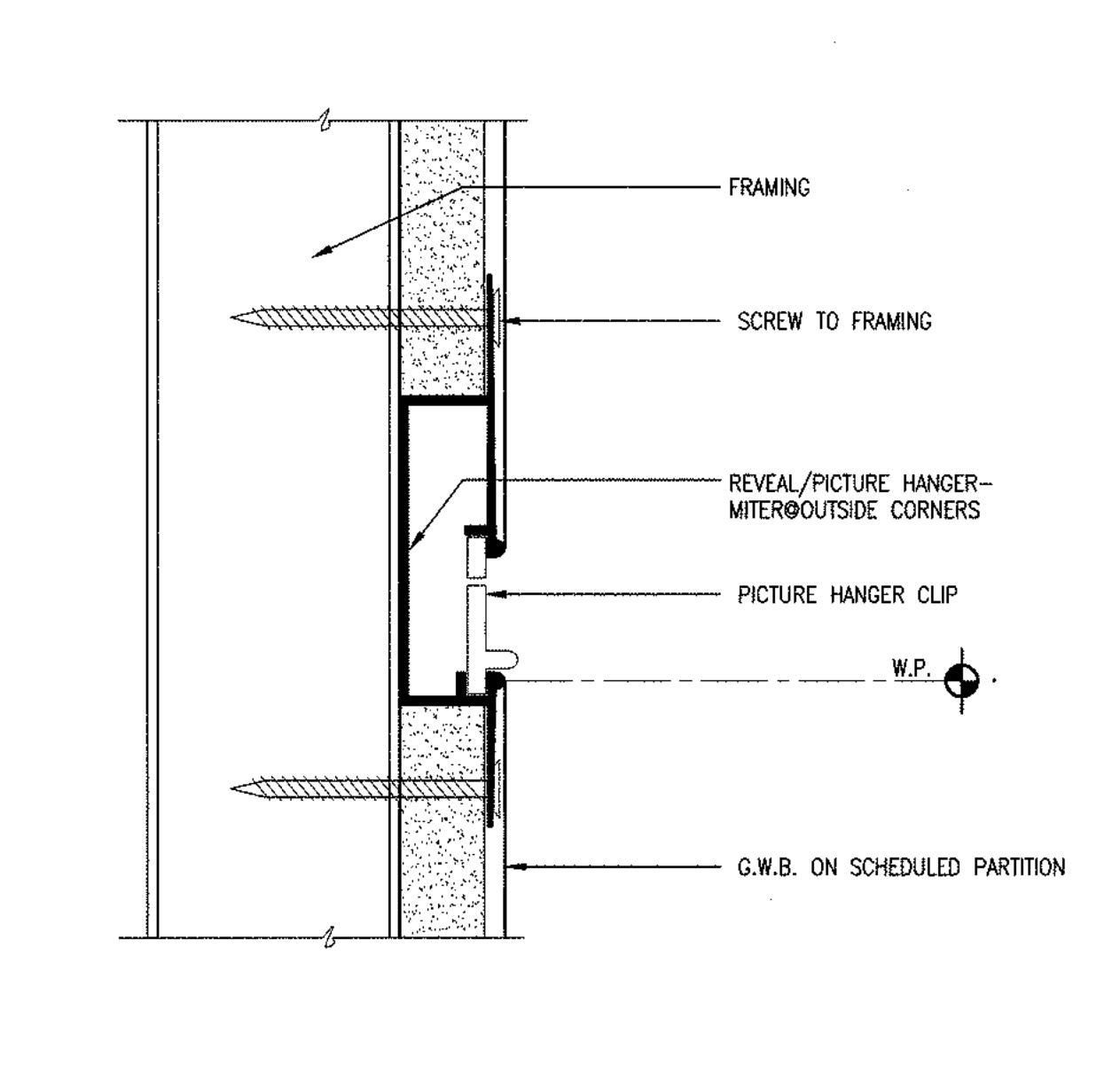
SECTION AT CLERESTORY 6
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 1" = 1'-0"



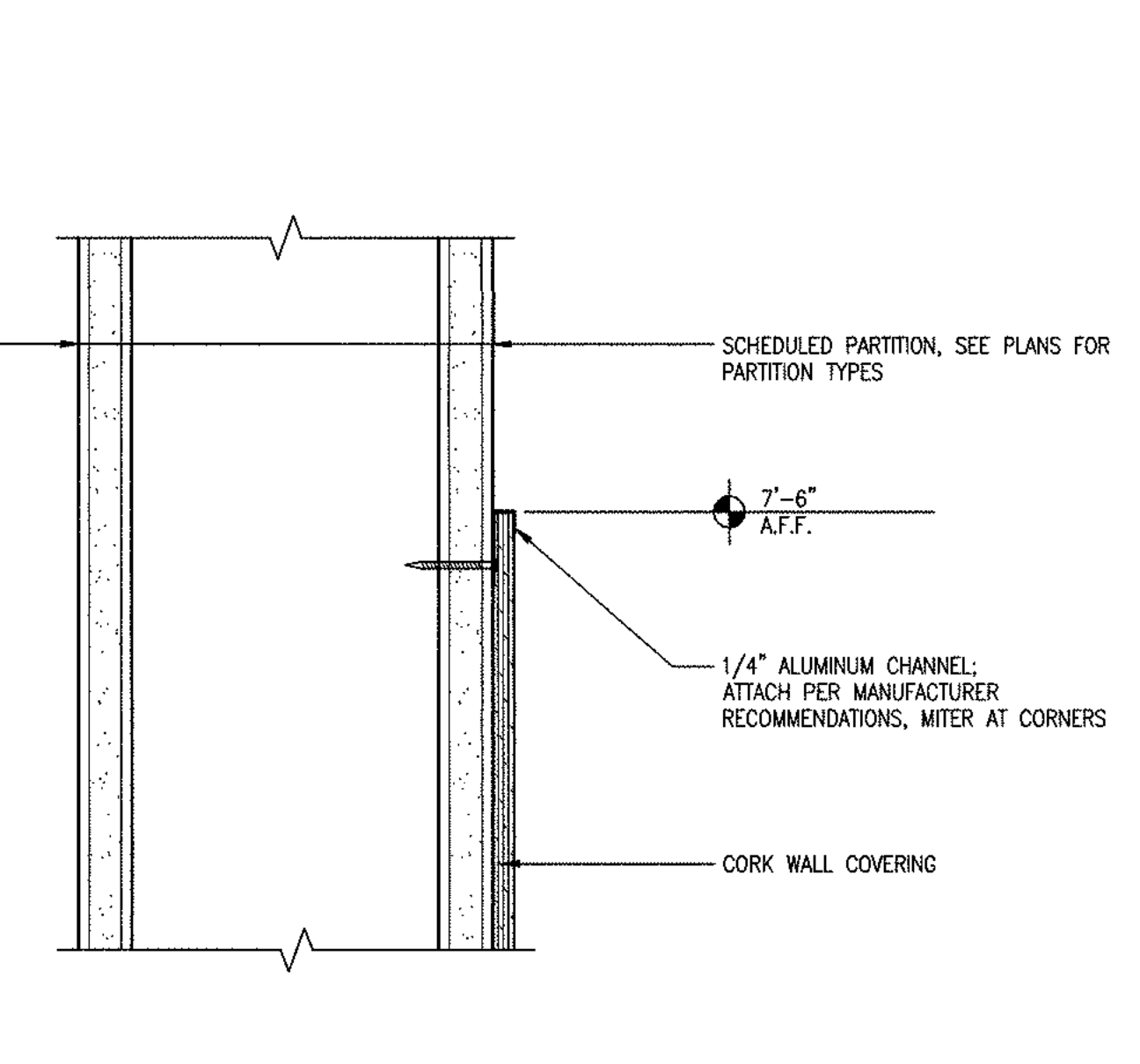
REVEAL AT PARTITION 2
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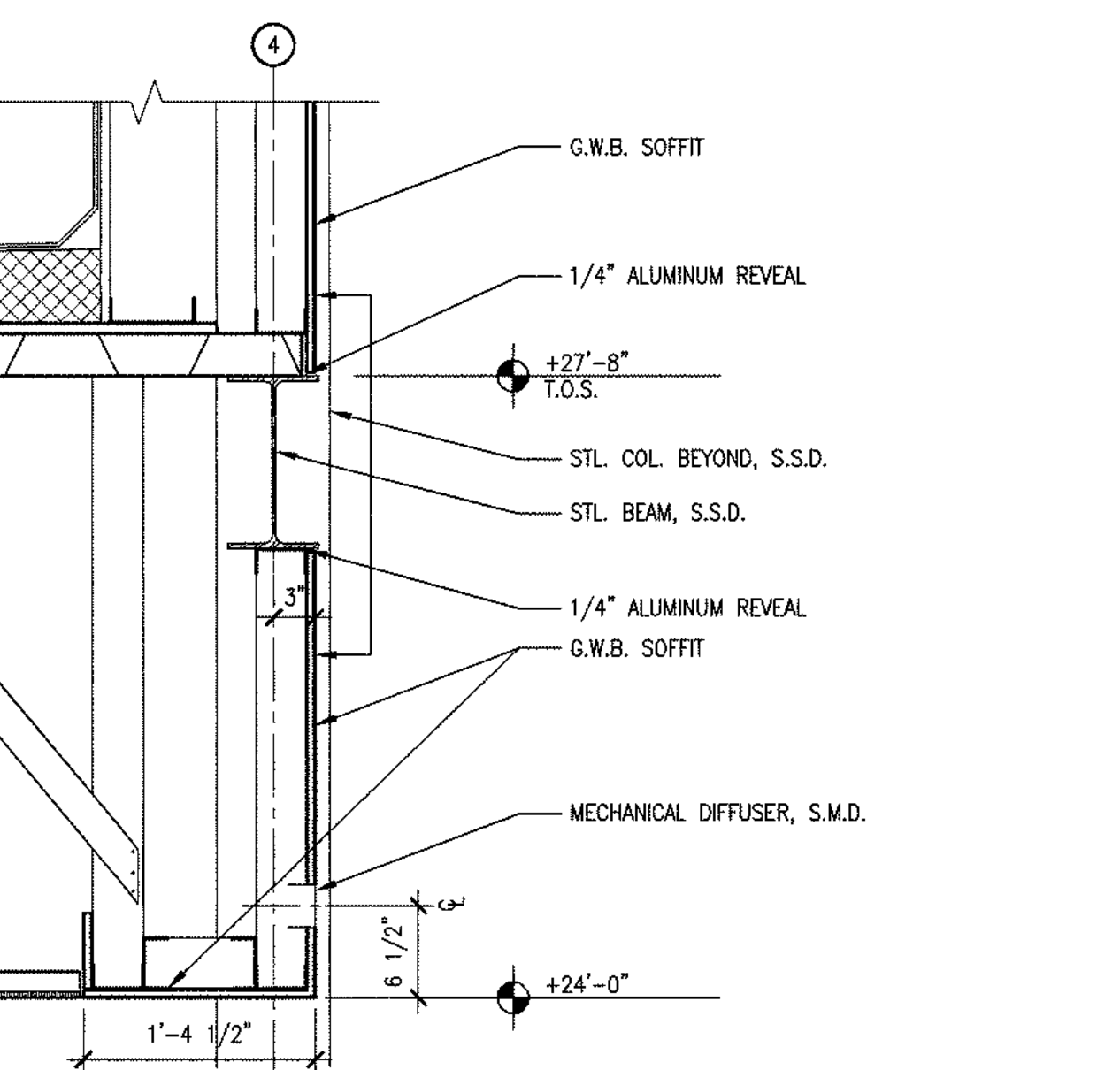
SOFFIT AT STAIR 17
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 1" = 1'-0"



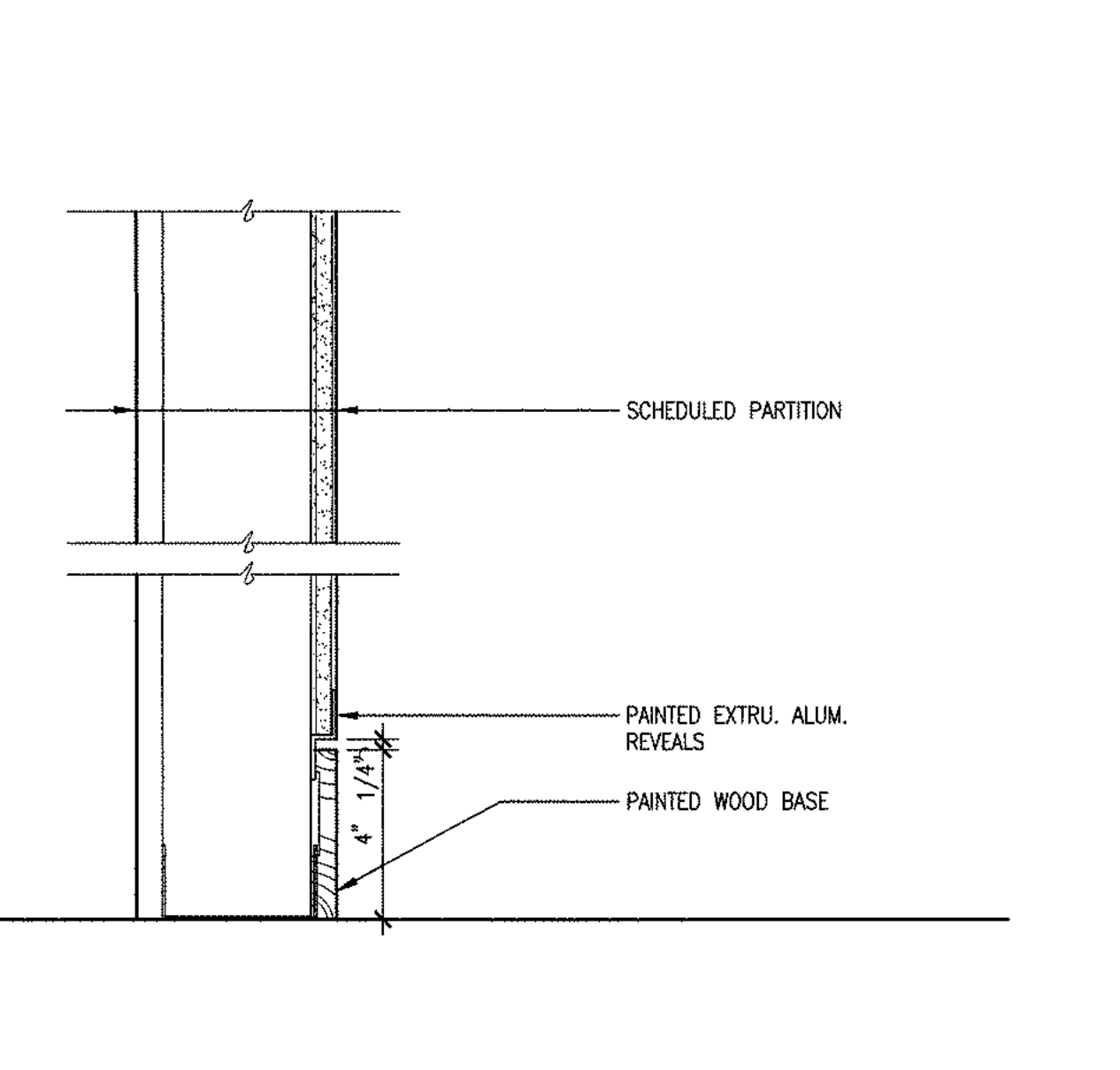
PICTURE RAIL REVEAL 13
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 FULL SCALE



CHANNEL AT CORK WALL COVERING 9
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 6" = 1'-0"

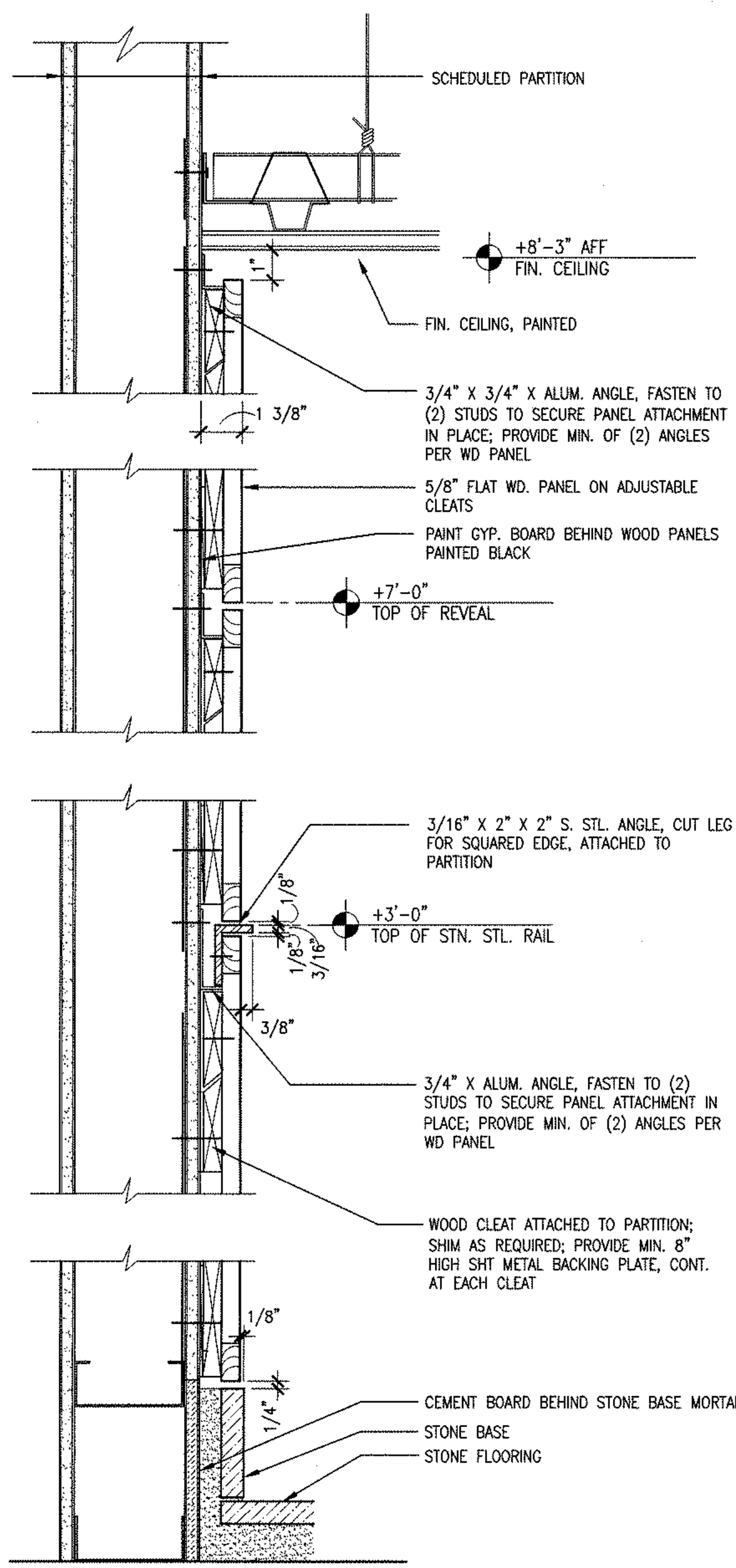


SECTION AT CLERESTORY 5
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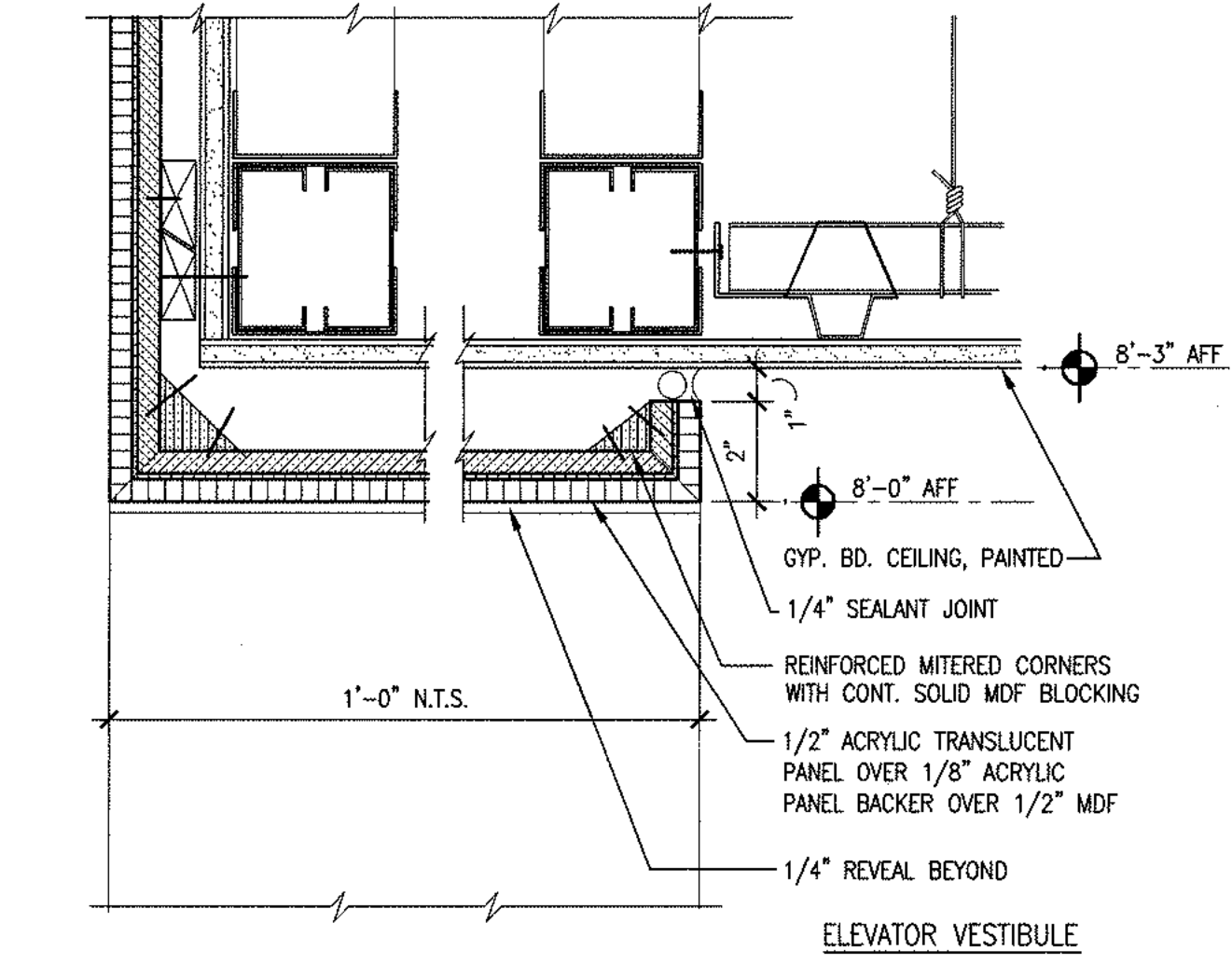


FLUSH BASE AT LOBBY 1
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 3" = 1'-0"

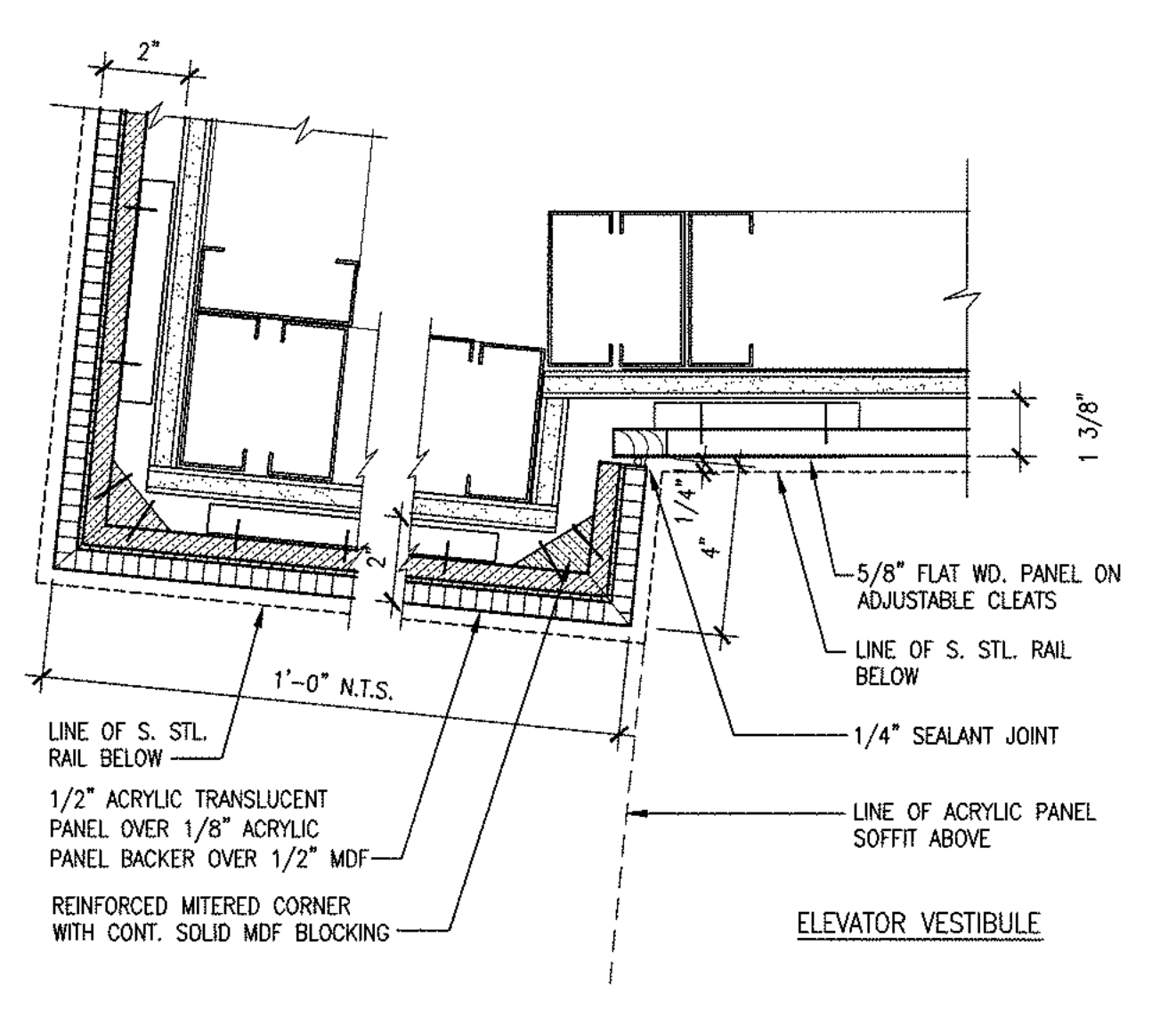
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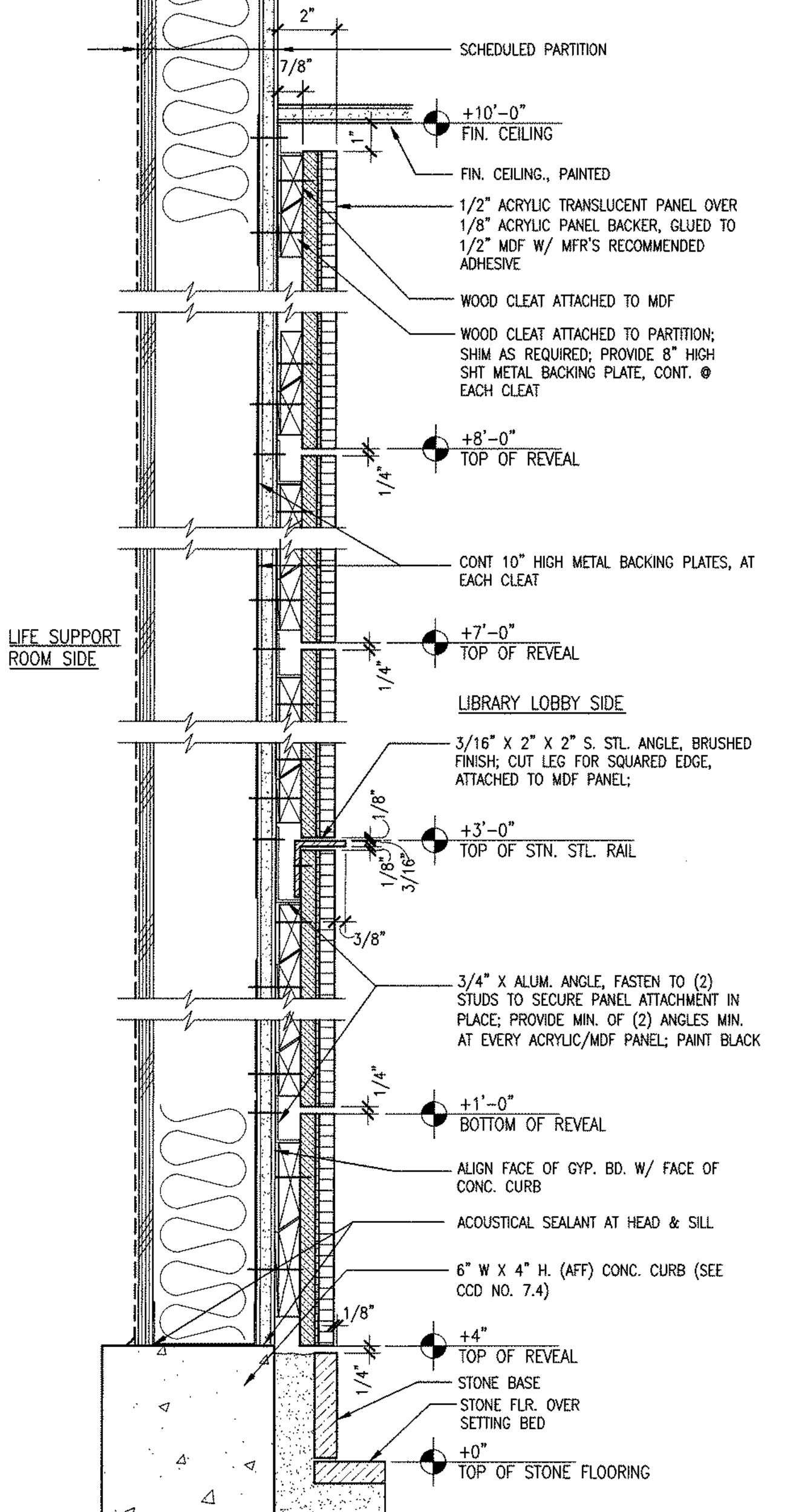
WALL SECTION AT ELEVATOR VESTIBULE 19
3" = 1'-0"



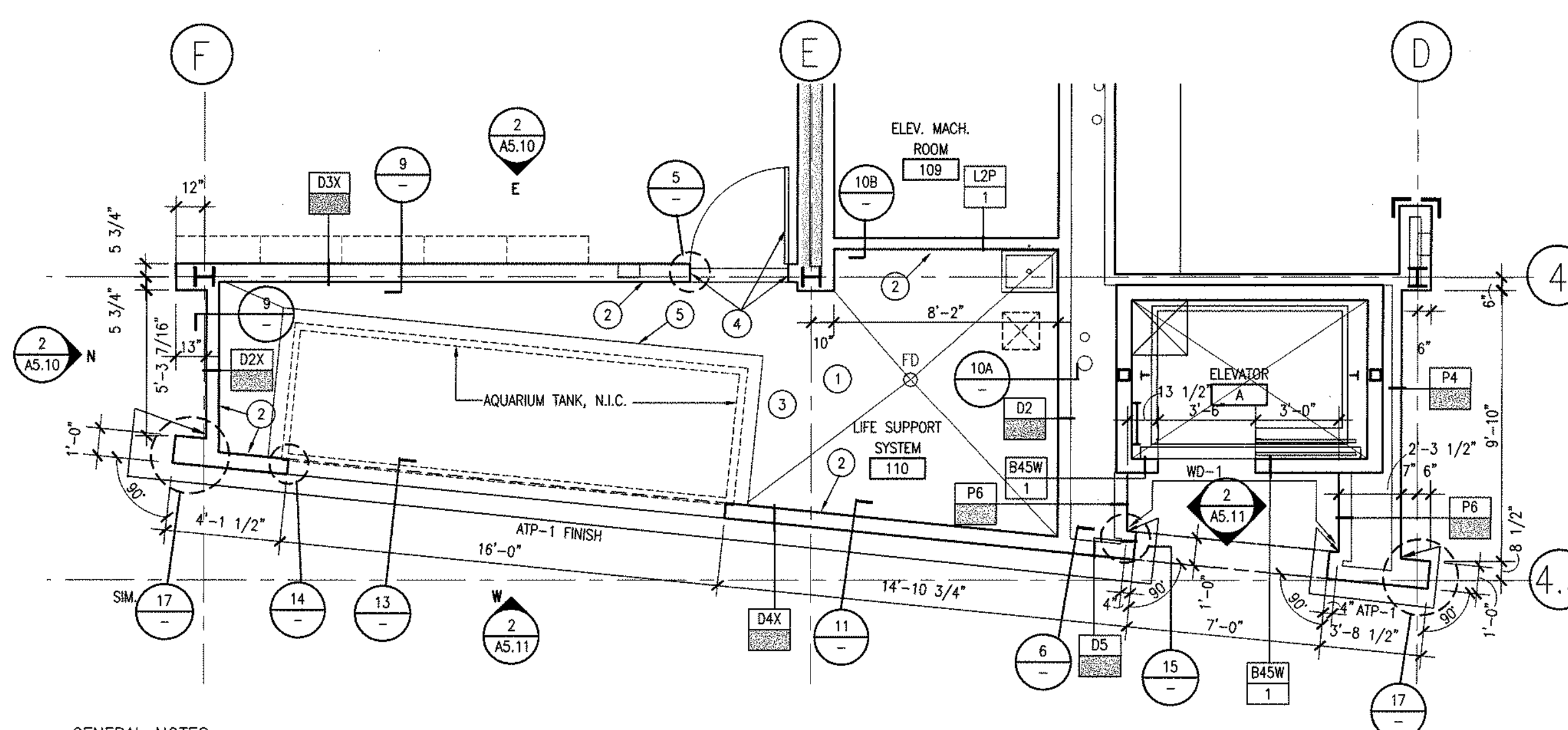
ACRYLIC/MDF PANEL HEADER @ ELEV. VEST. 16
3" = 1'-0"



ACRYLIC/MDF PANEL JAMB @ ELEVATOR VESTIBULE 15
3" = 1'-0"

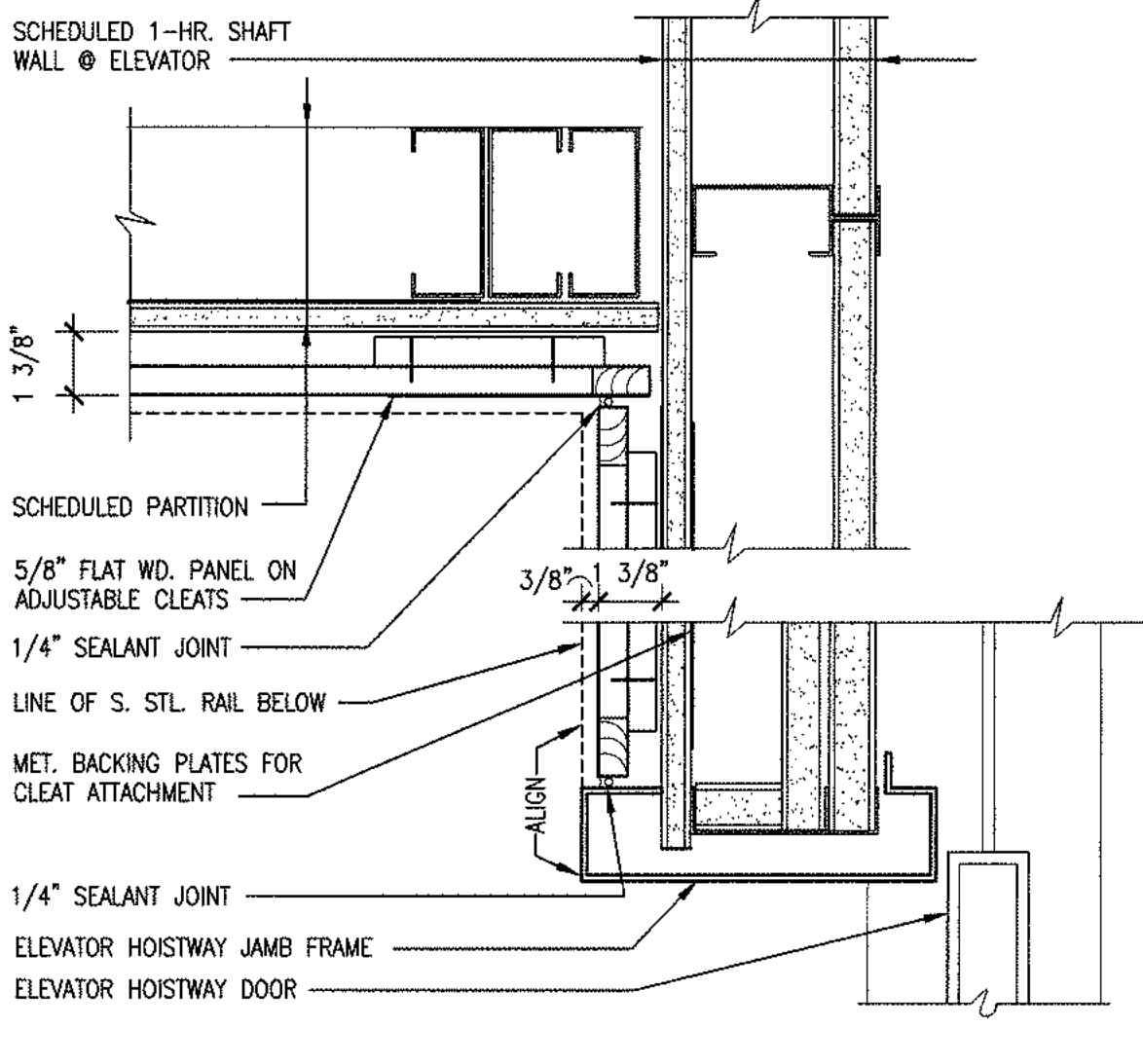


AQUARIUM WALL SECTION 11
3" = 1'-0"

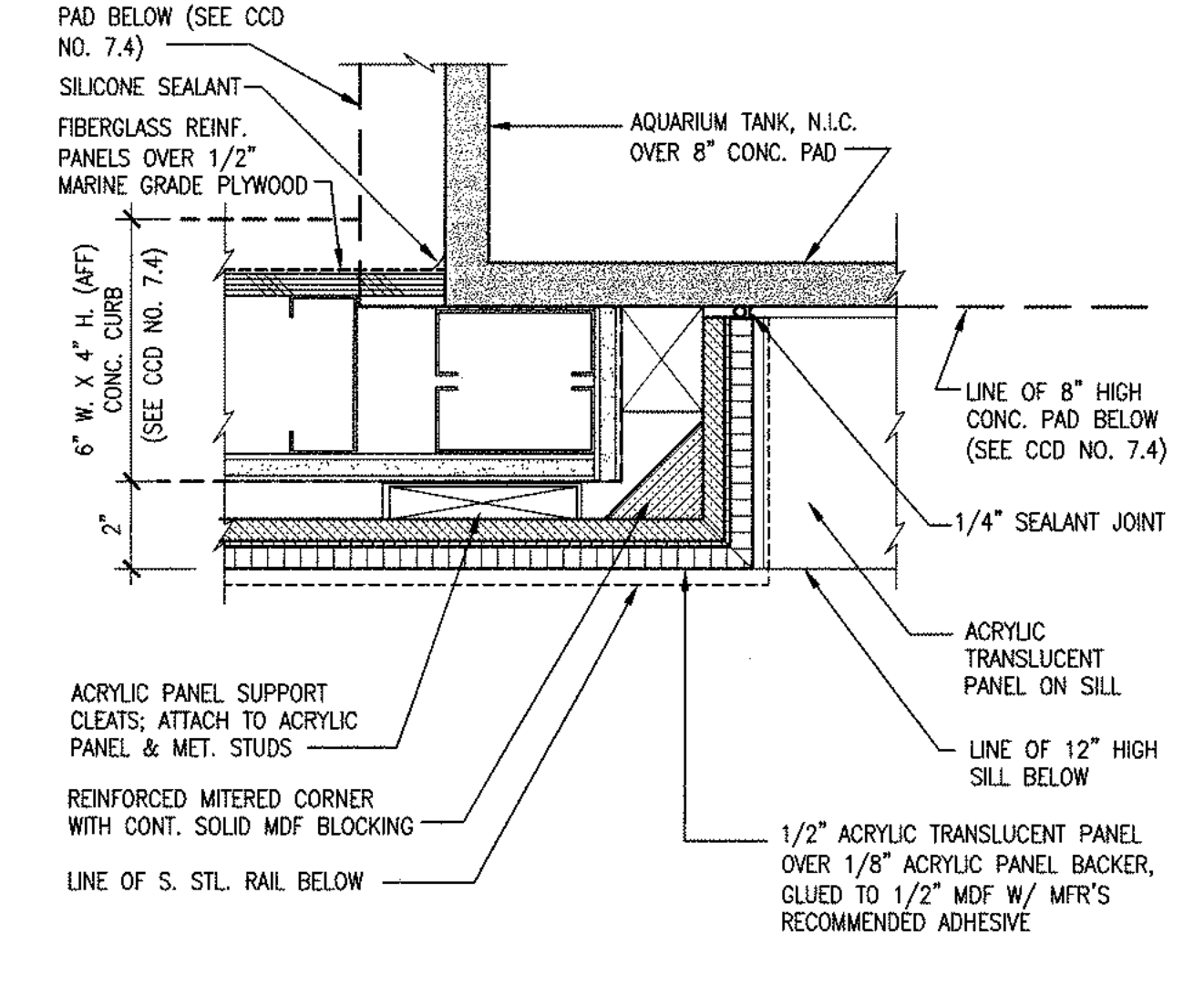


- GENERAL NOTES**
- REFER TO PREVIOUS CCD NOS. 7 THRU 7.6 FOR STRUCTURAL, MEP MODIFICATIONS AND FLOOR FINISH REVISIONS AND COORDINATE WORK.
 - REFER TO CCD NO. 19 FOR EXTERIOR WALL MODIFICATIONS AT STAIR 1.
 - PARTITIONS ARE DIMENSIONED TO FACE OF FINISH, OR "FINISH ASSEMBLES", I.E. ACRYLIC/MDF PANELS (ATP-1) OR WOOD PANELS (WD-1).
 - AQUARIUM TANK IS N.I.C.; COORDINATE ALL WORK WITH AQUARIUM FABRICATOR/INSTALLER.
 - REFER TO ENLARGED ELEVATOR PLAN 1/A7.10 FOR ELEVATOR VESTIBULE DIMENSIONS.
 - ALL WALLS INSIDE LIFE SUPPORT SYSTEM ROOM TO BE FACED WITH FIBERGLASS REIN. PANELS OVER MARINE GRADE PLYWOOD. (EXTEND FRP & PLYWOOD TO STRUCTURE ABOVE.) SEAL ALL FRP PANEL JOINTS, EDGES AND WALL PENETRATIONS WITH SILICONE SEALANT FOR MOISTURE TIGHT INSTALLATION. WHERE GWB IS INSTALLED ON "PUBLIC" SIDE OF WALLS, SEAL WITH ACOUSTICAL SEALANT.
 - WHERE OUTLET BOXES ARE RECESSED IN WALLS, INSTALL PER DETAIL 14/A9.01.
- KEYNOTES**
- TRAFFIC COATING W/ NON-SUP AGGREGATE OVER CONCRETE TOPPING SLAB, CONC. PAD AND CONC. CURBS
 - 1/2" MARINE GRADE PLYWOOD W/ FRP PANELS FULL HEIGHT (TO METAL DECK)
 - PAINT ALL EXPOSED STRUCTURE (METAL DECK & BEAMS) W/HIGH PERFORMANCE COATING.
 - PAINT HM DOOR & FRAME (INSIDE LIFE SUPPORT ROOM) W/HIGH PERFORMANCE COATING.
 - CONC. PAD (ADDED IN CCD NO. 7.4)

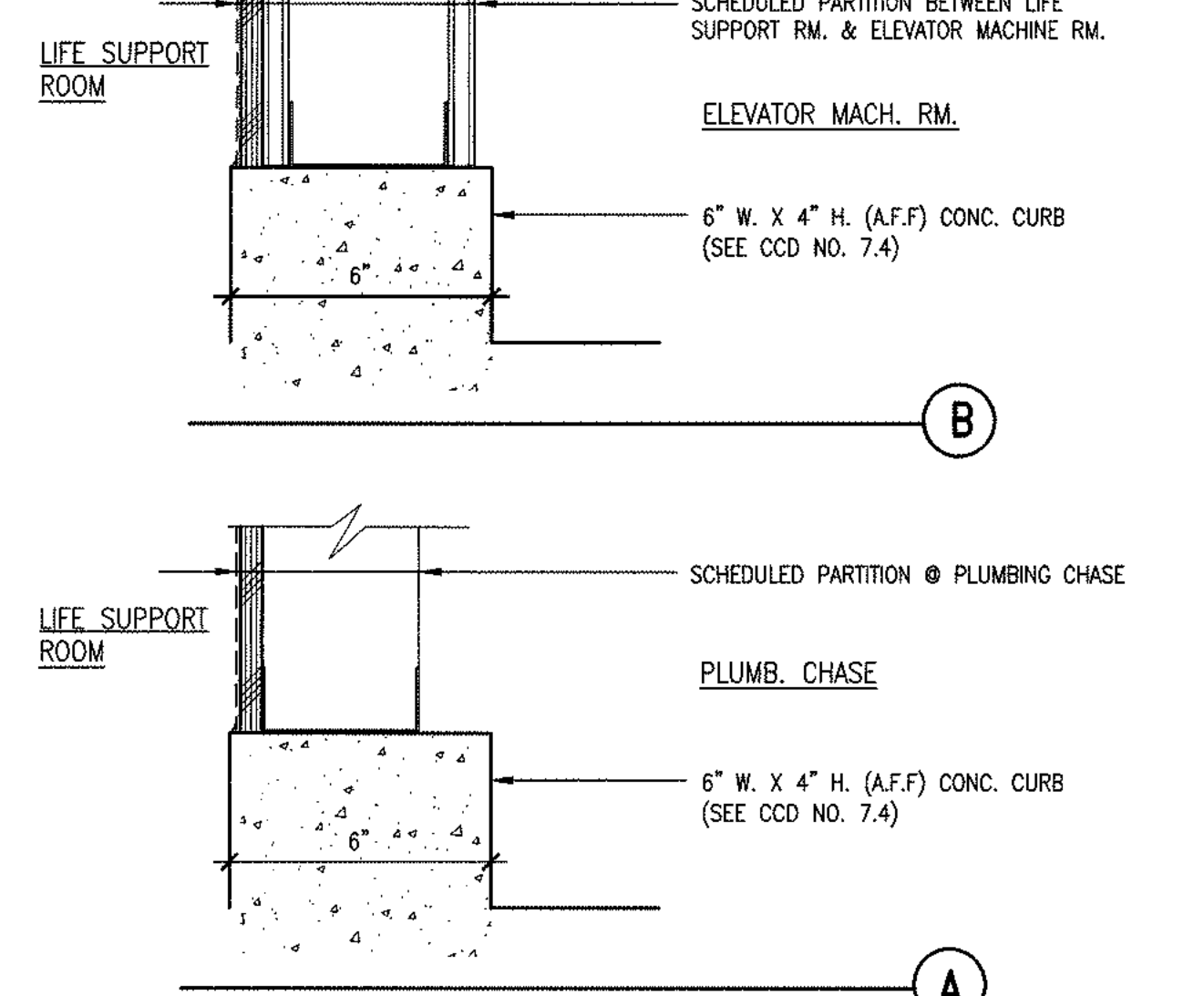
ENLARGED PLAN - AQUARIUM LIFE SUPPORT SYSTEM ROOM & ELEVATOR A VESTIBULE 4
1/4" = 1'-0"



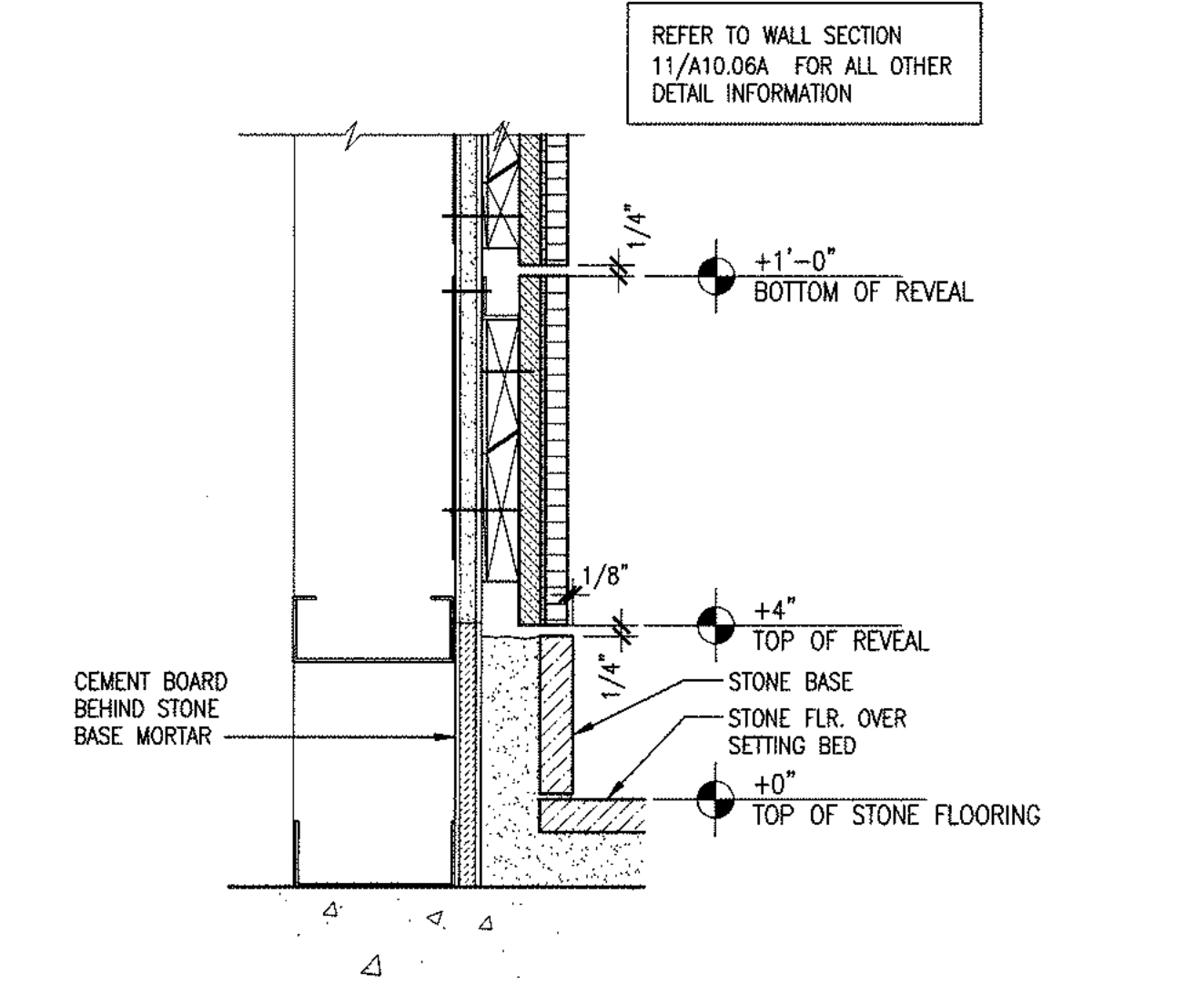
WOOD PANEL @ ELEVATOR HOISTWAY JAMB (HEAD SIM.) 18
3" = 1'-0"



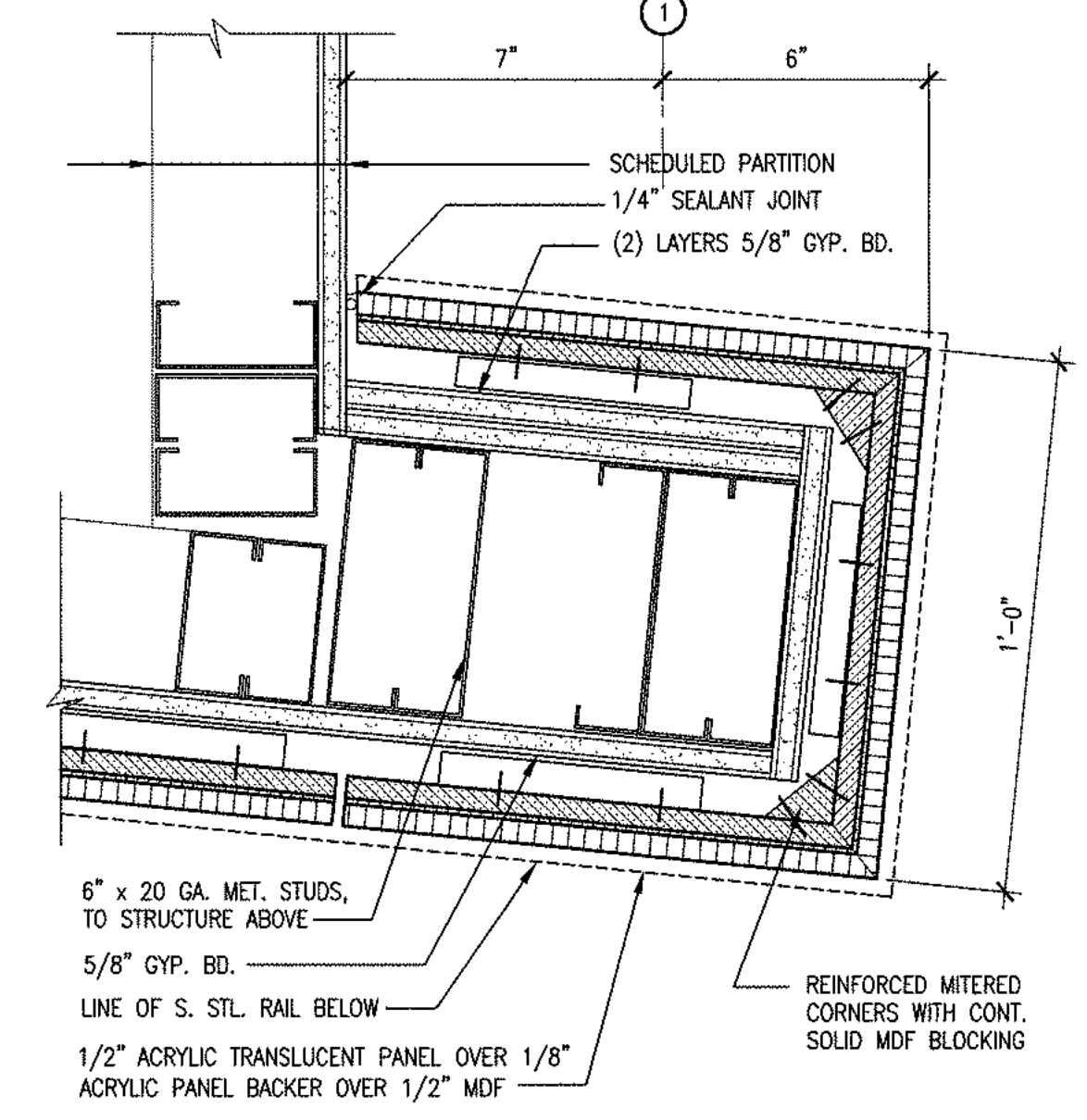
ACRYLIC/MDF PANEL JAMB (HEAD SIM.) @ AQUA. TANK 14
3" = 1'-0"



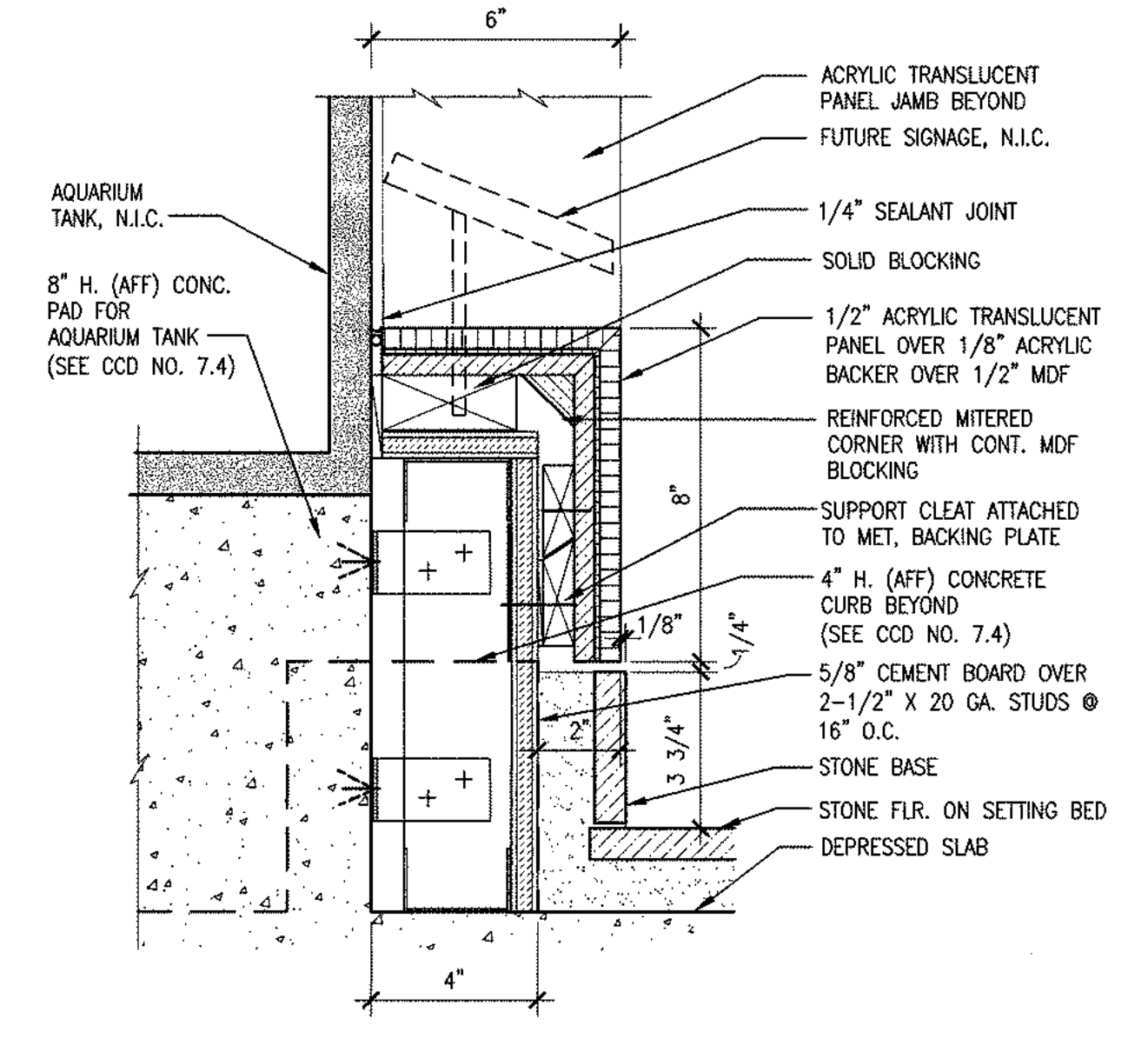
PARTITION BASE AT CONC. CURB 10
3" = 1'-0"



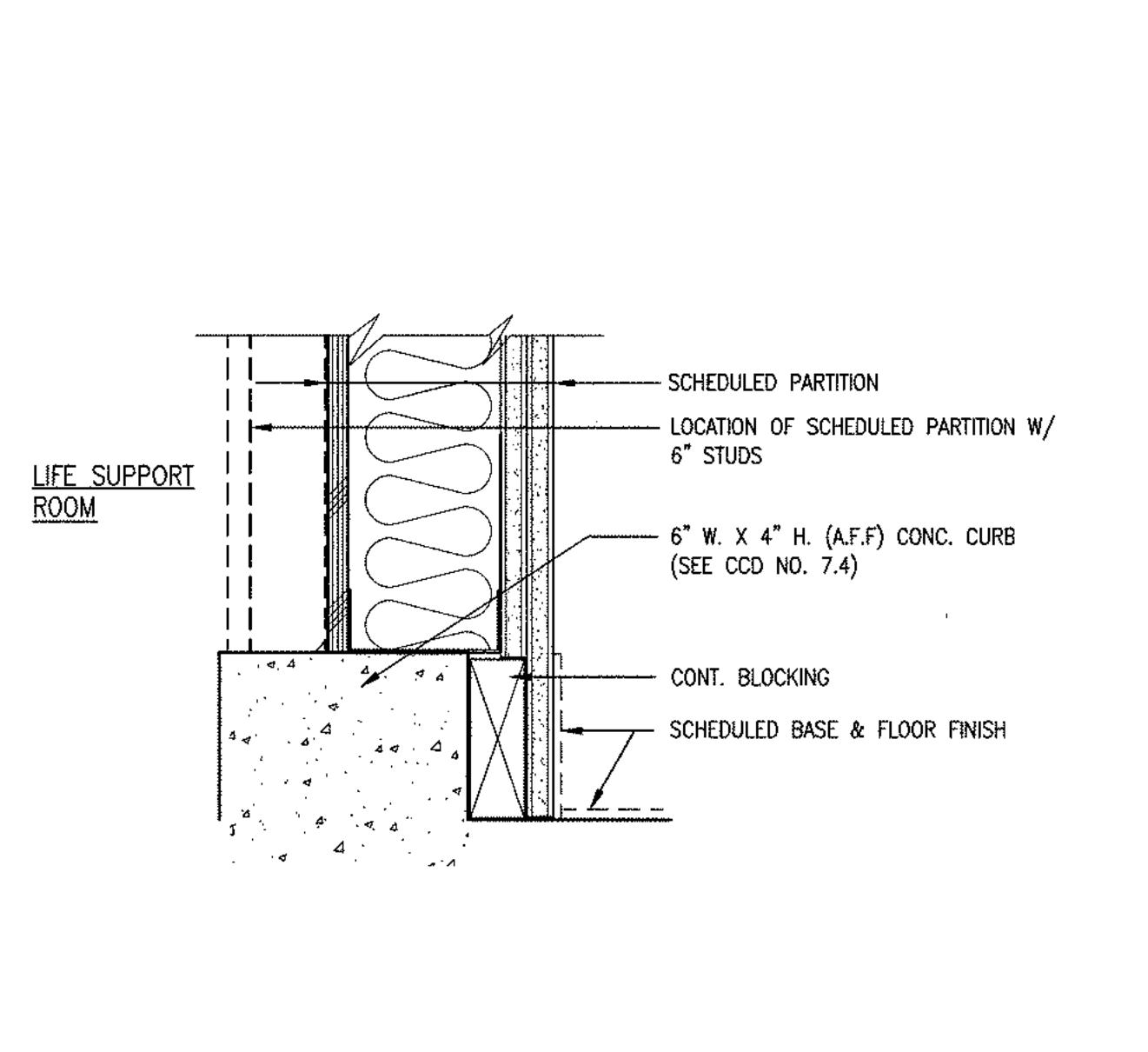
WALL BASE @ CONDITION WITHOUT CURB 6
3" = 1'-0"



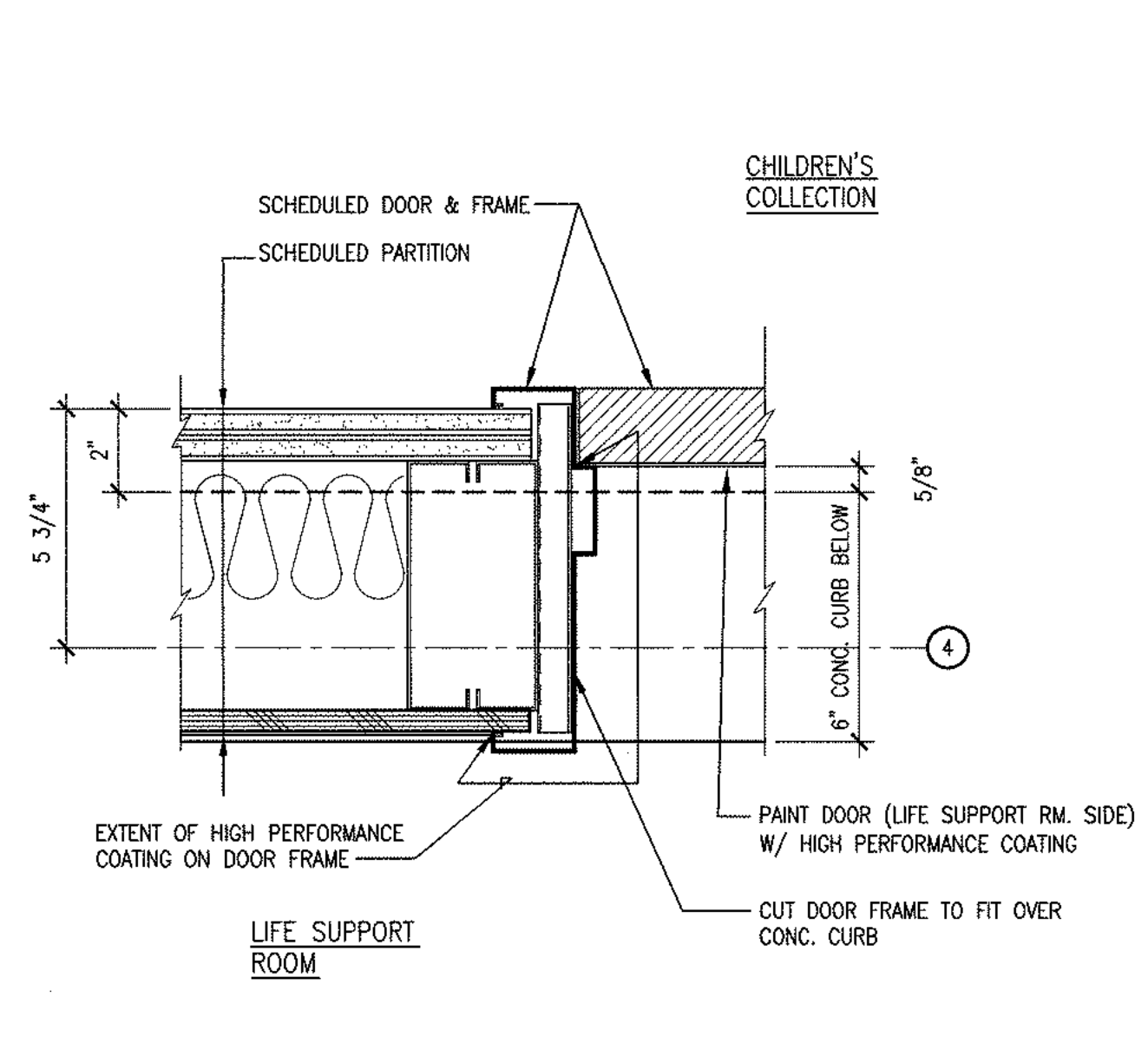
ACRYLIC/MDF PANEL WALL RETURN 17
3" = 1'-0"



ACRYLIC/MDF PANEL SILL @ AQUARIUM TANK 13
3" = 1'-0"



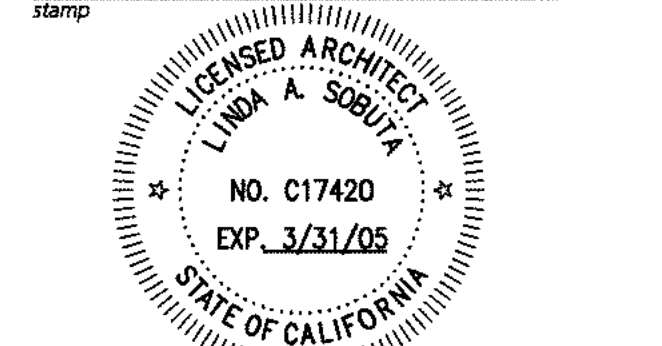
PLYWOOD/FRP/GYP. BD. PARTITION 9
3" = 1'-0"



DOOR 110A JAMB 5
3" = 1'-0"

PARTITION SCHEDULE (REFER TO SHT. A8.0 FOR OTHER PARTITION TYPES)			
TYPE	DESCRIPTION	DETAIL	
B4SW	4" x 20 GA. MTL. C-H STUD AT 24" O.C. 1" DYP. CORE BD. ONE SIDE 2 LAYERS 5/8" GWB OTHER SIDE 1-3/8" FINISH ASSEMBLY - SEE DETAILS	1 3/8" x 4 5/8"	
D1	3 5/8" x 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 1/2" MARINE GRADE PLYWOOD W/ FIBERGLASS REINFORCED PANELS (AT LIFE SUPPORT ROOM SIDE)	4 1/8" x 1 1/4" SHIM SPACE WHERE OCCURS	
D2X	3 5/8" x 20 GA. MTL. STUD AT 16" O.C. 2 LAYERS 5/8" GWB ONE SIDE 3" ACOUSTICAL INSULATION 1/2" MARINE GRADE PLYWOOD & FIBERGLASS REINFORCED PANELS (AT LIFE SUPPORT ROOM SIDE)	5 3/8"	
D3X	8" x 20 GA. MTL. STUD AT 16" O.C. 2 LAYERS 5/8" GWB ONE SIDE 3" ACOUSTICAL INSULATION 1/2" MARINE GRADE PLYWOOD & FIBERGLASS REINFORCED PANELS (AT LIFE SUPPORT ROOM SIDE)	7 3/4"	
D4X	3 5/8" x 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB ONE SIDE 2" FINISH ASSEMBLY (SEE DETAILS) 3" ACOUSTICAL INSULATION 1/2" MARINE GRADE PLYWOOD & FIBERGLASS REINFORCED PANELS (AT LIFE SUPPORT ROOM SIDE)	4 3/4" x 2"	
D5	3 5/8" x 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GYP. BD. 2" FINISH ASSEMBLY (SEE DETAILS)	2" x 4 1/4" x 1 1/4" SHIM SPACE WHERE OCCURS	
L2P	3 5/8" x 20 GA. MTL. STUD AT 16" O.C. 1 LAYER 5/8" GWB ONE SIDE; 1 LAYER 1/2" MARINE GRADE PLYWOOD W/FIBERGLASS REINFORCED PANELS (AT LIFE SUPPORT ROOM SIDE)	5 3/8"	

11-29-04 Updated Contract Documents



BID SET

ENLARGED PLAN & DETAILS: AQUARIUM LIFE SUPPORT SYSTEM RM. & ELEVATOR A VEST.

AS NOTED
2003.04.18
2011.04.00

A10.06A

SIMWAY
interiors
planning
graphic design

City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

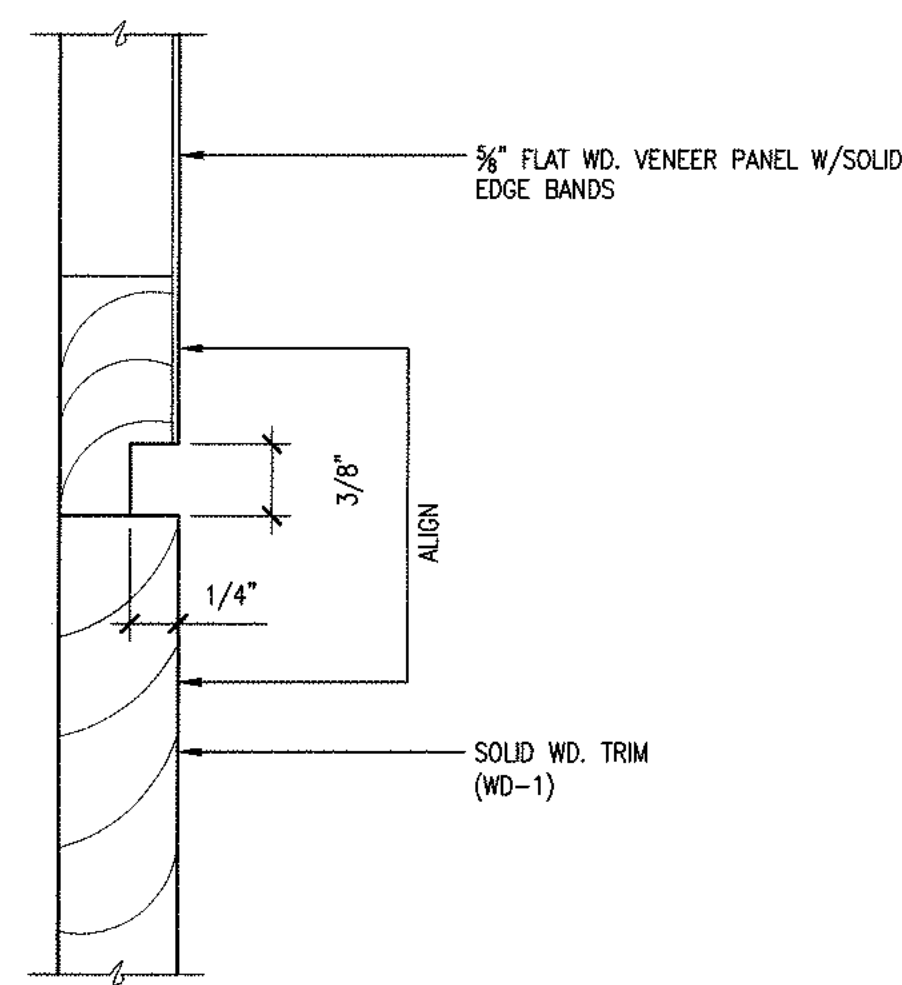
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San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Essesser Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0600 F

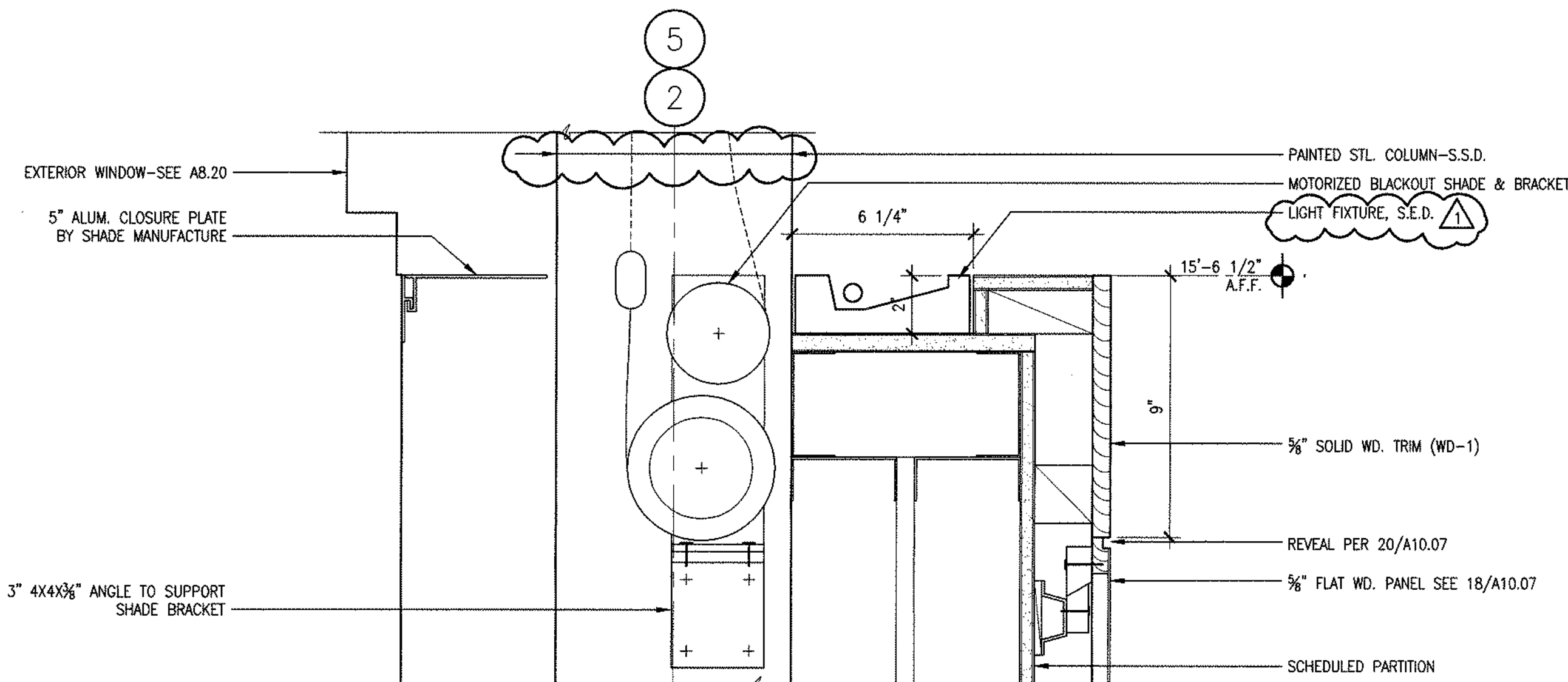
Flack + Kurtz
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415 433 5311 F

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San Francisco, CA 94107
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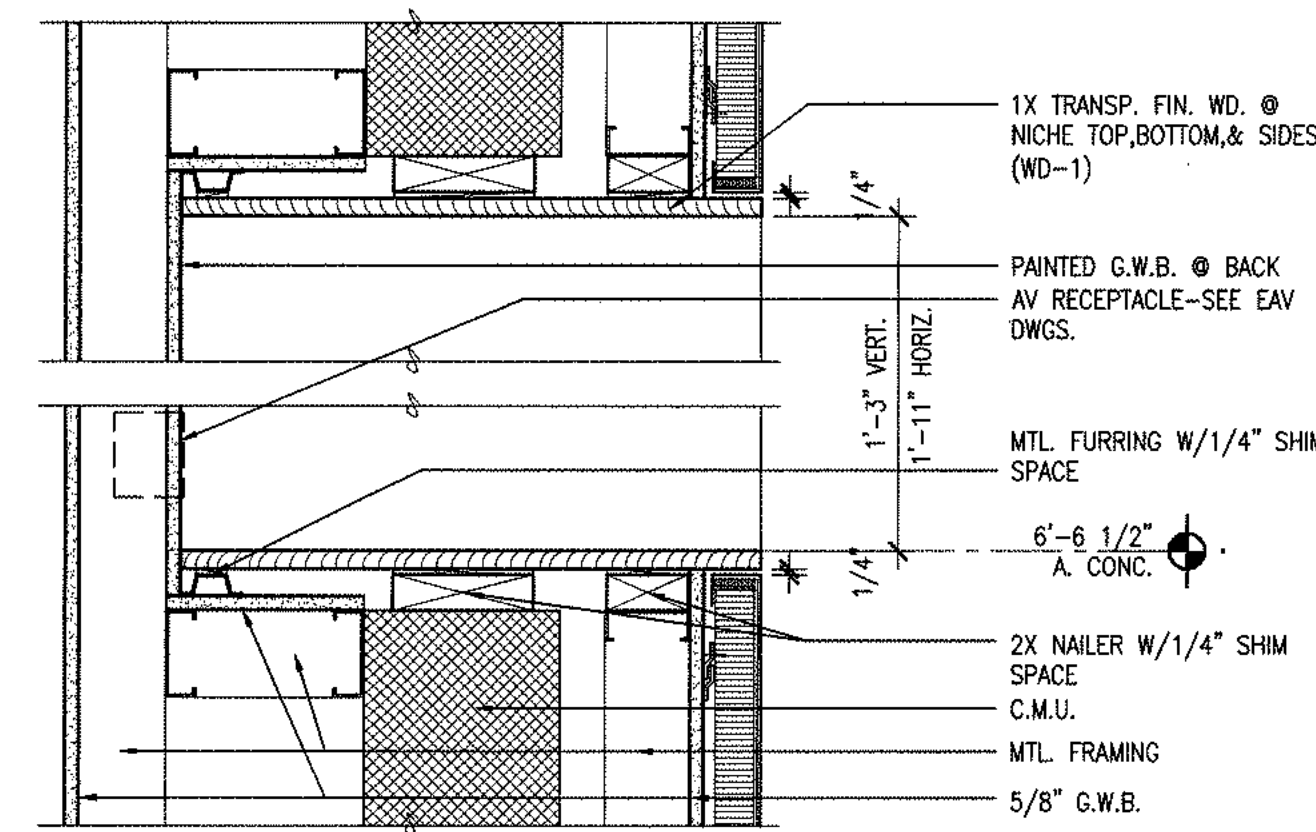
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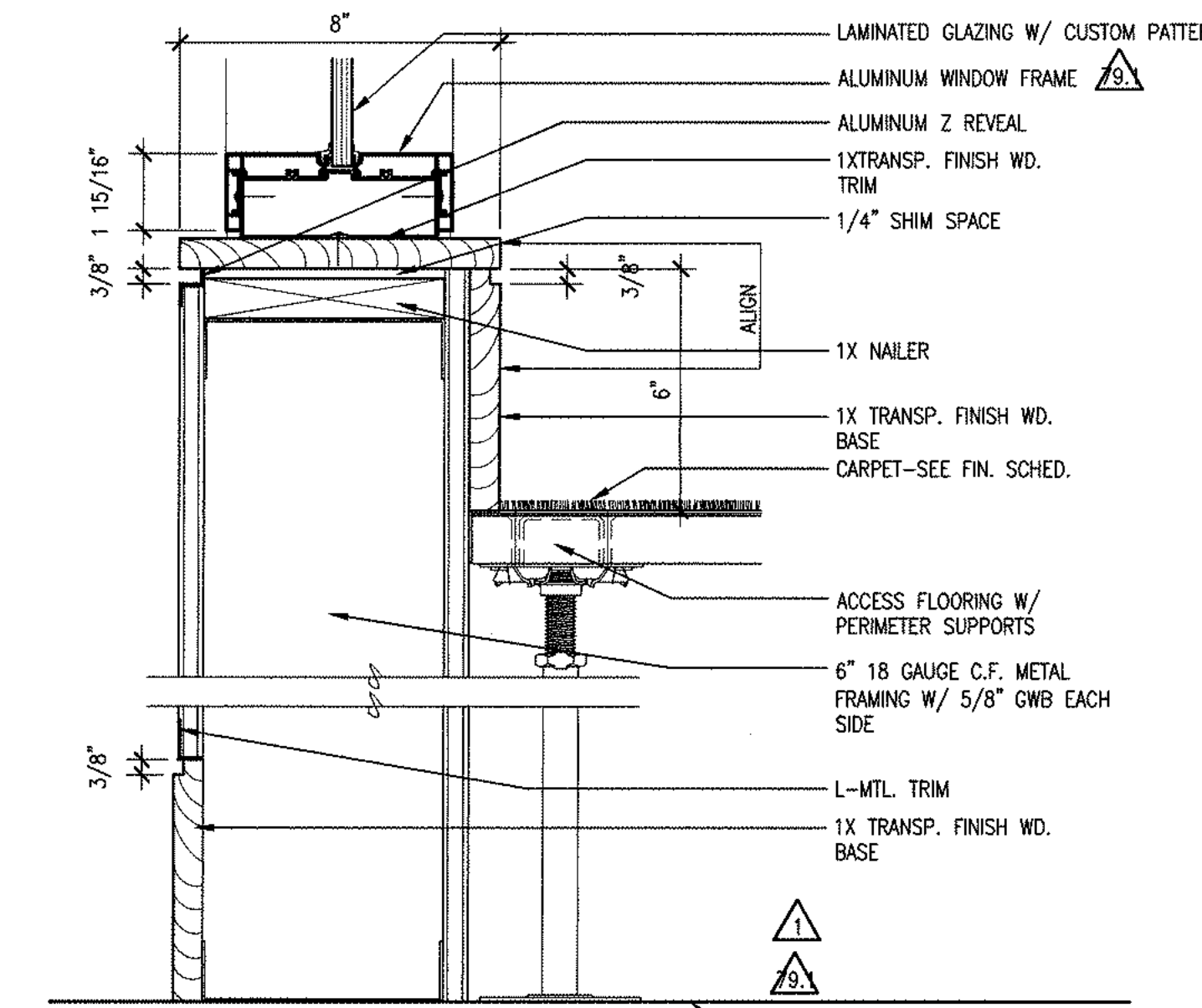
TYP. REVEAL @ FLAT PANEL (20)
FULL SCALE



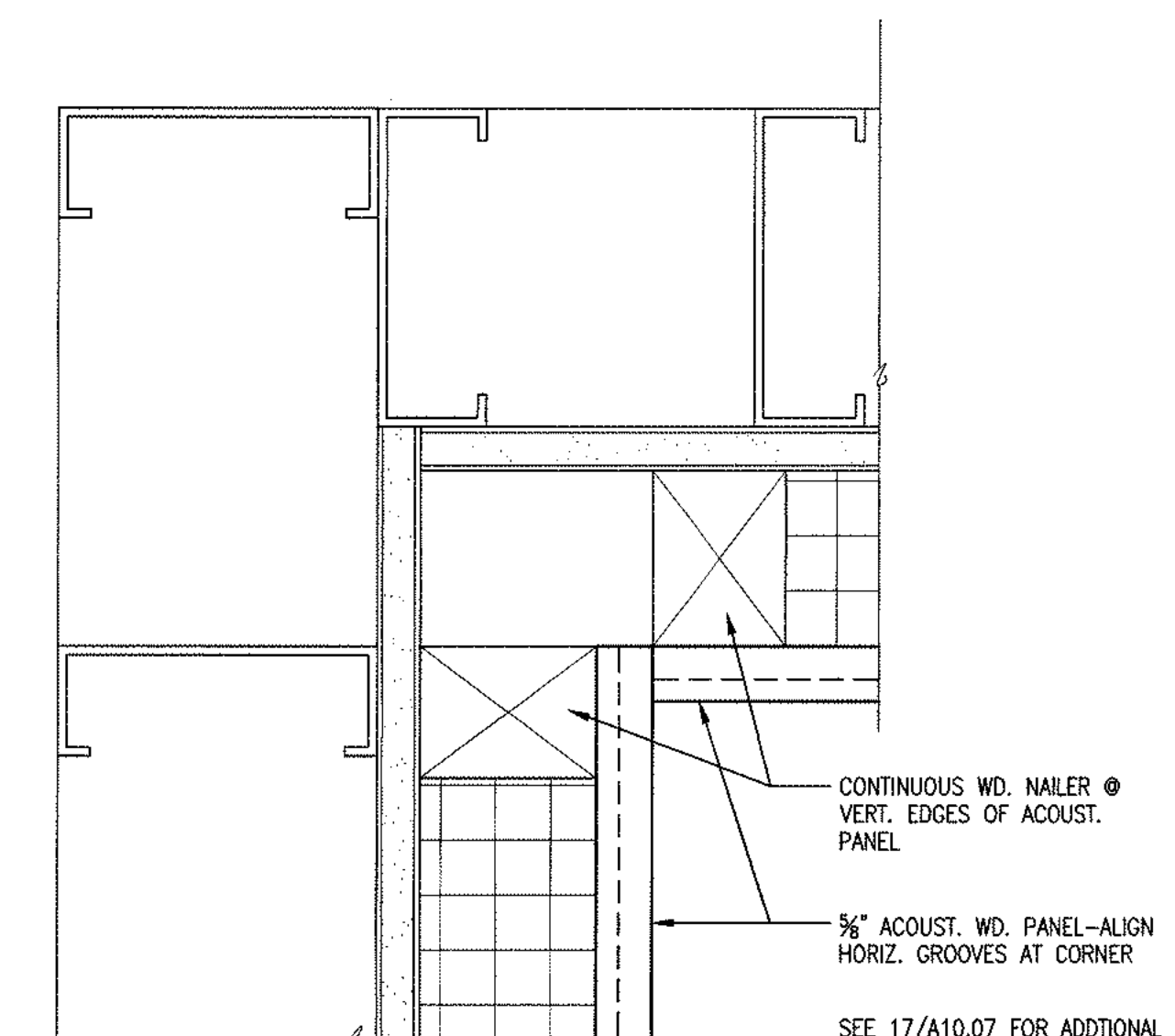
SHADE & COVELIGHT @ G.L. 2 & 5 (12)
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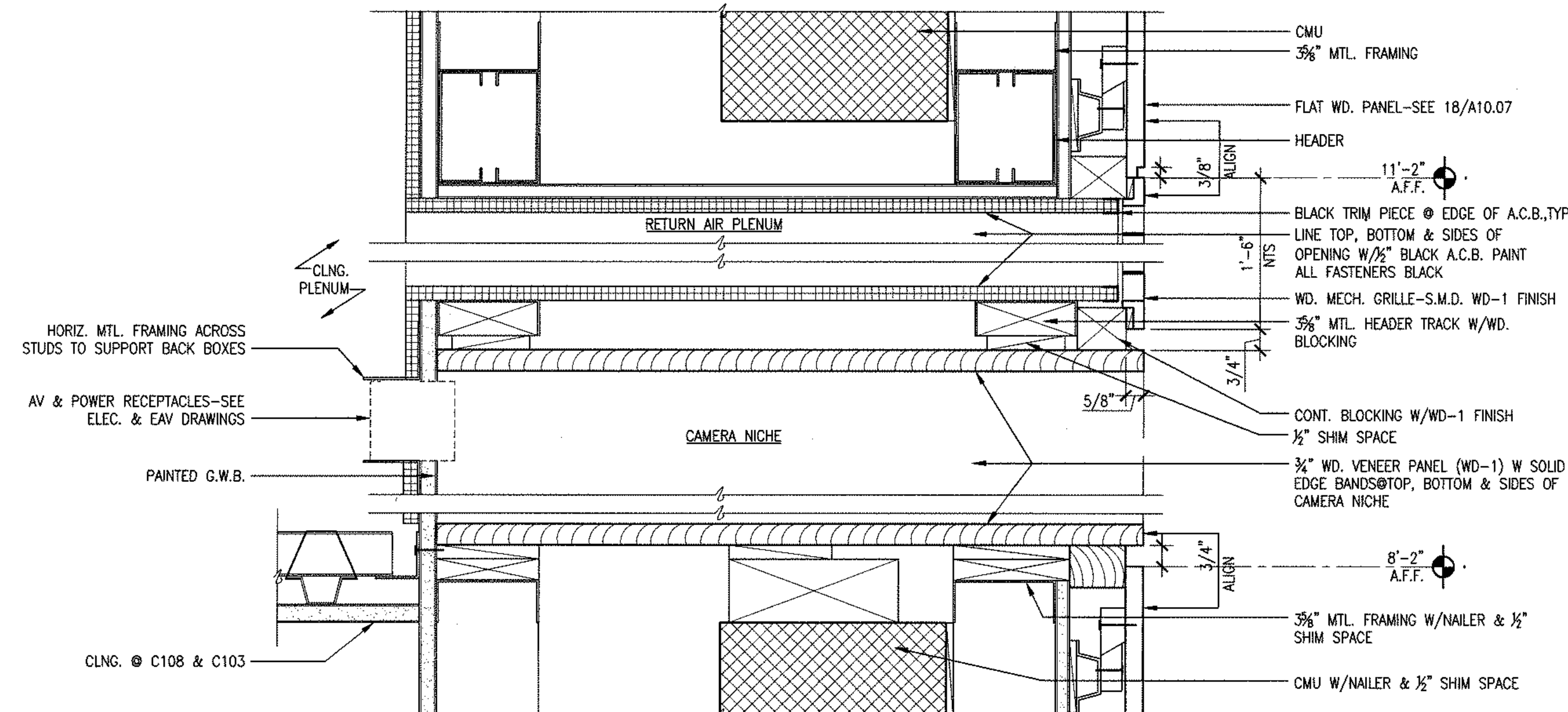
SECTION @ DAIS CAMERA NICHE-PLAN SIM. (8)
1 1/2\"/>



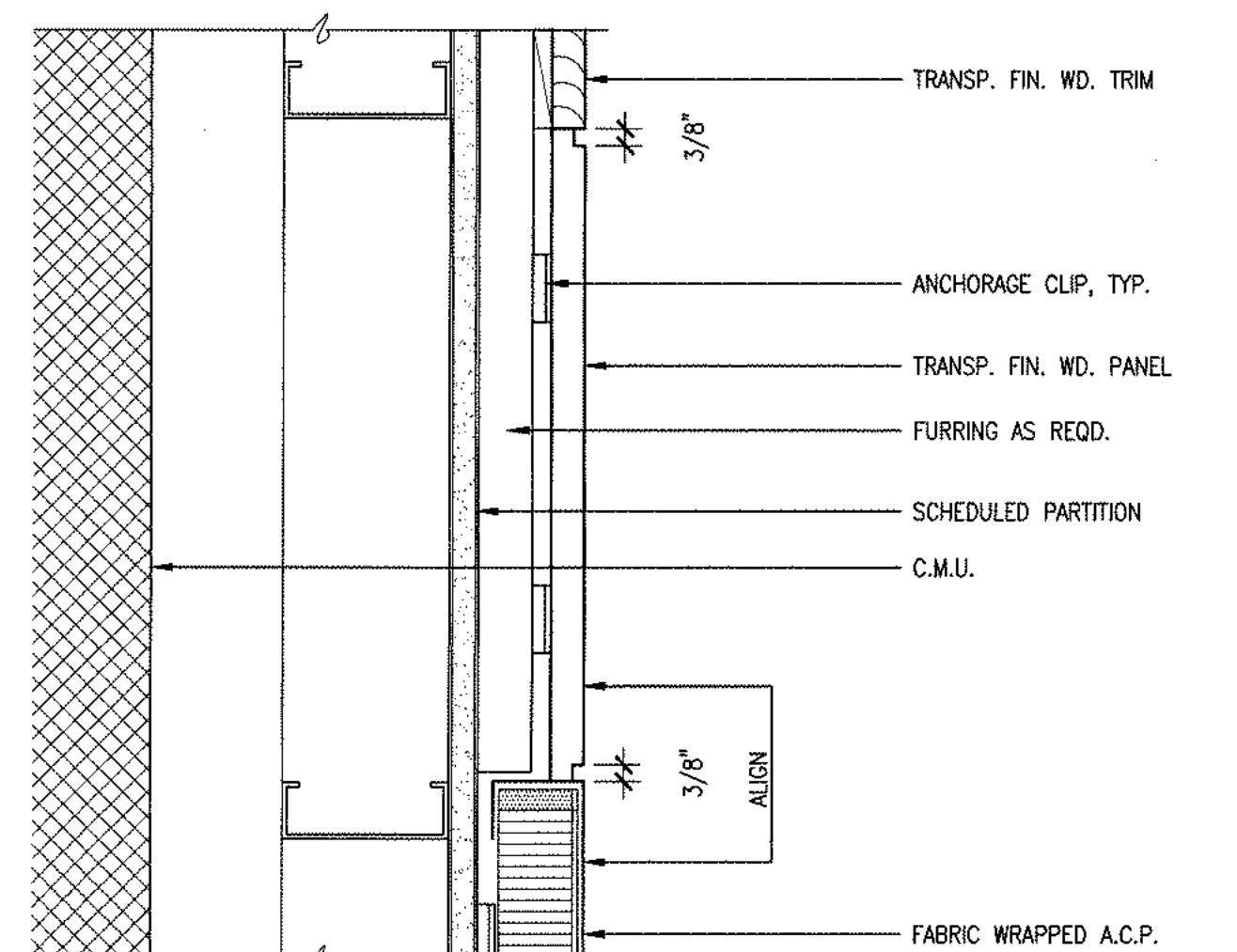
WOOD BASE/TRIM @ DAIS CURB (4)
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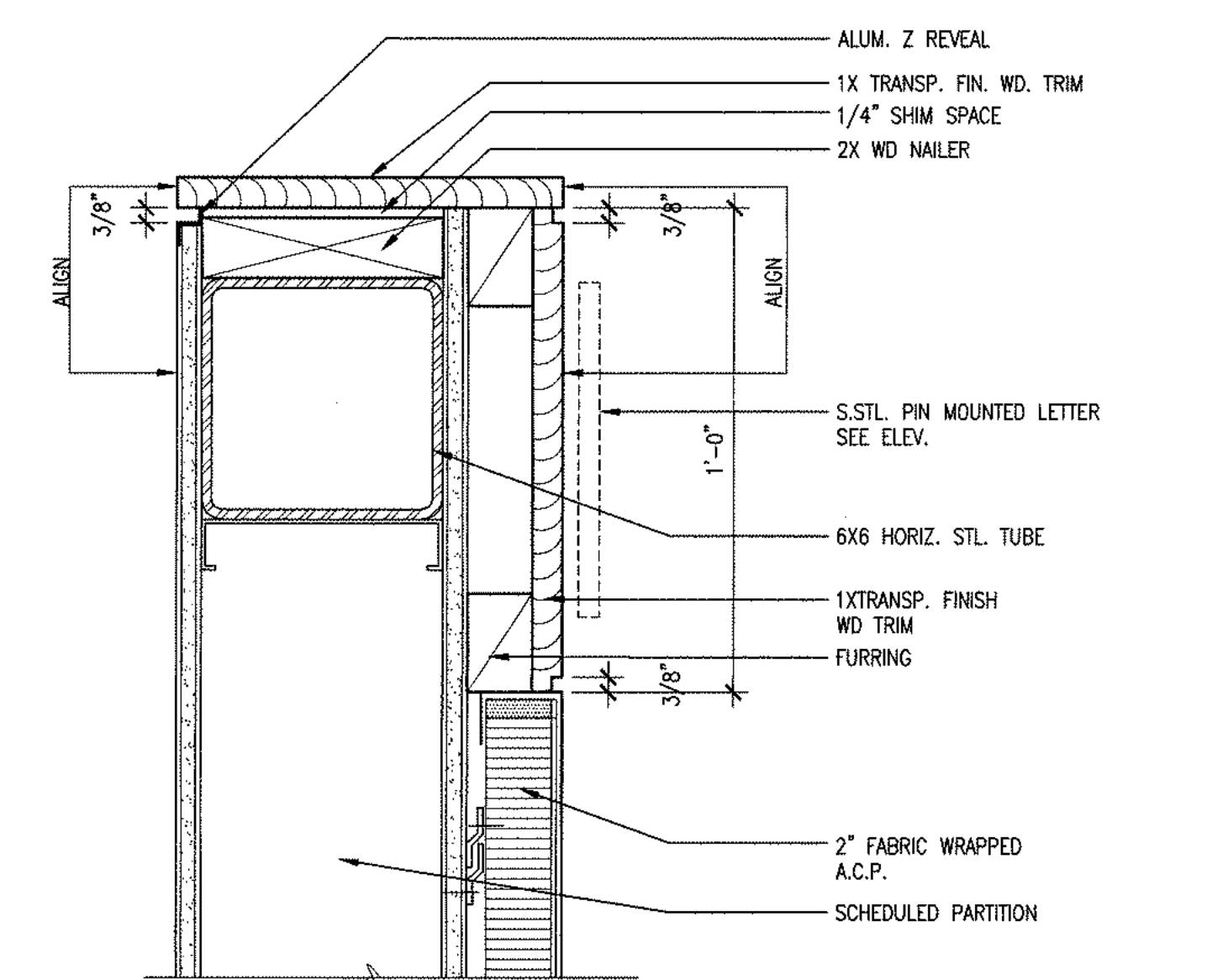
INSIDE CORNER @ ACOUST. WD. PANEL (19)
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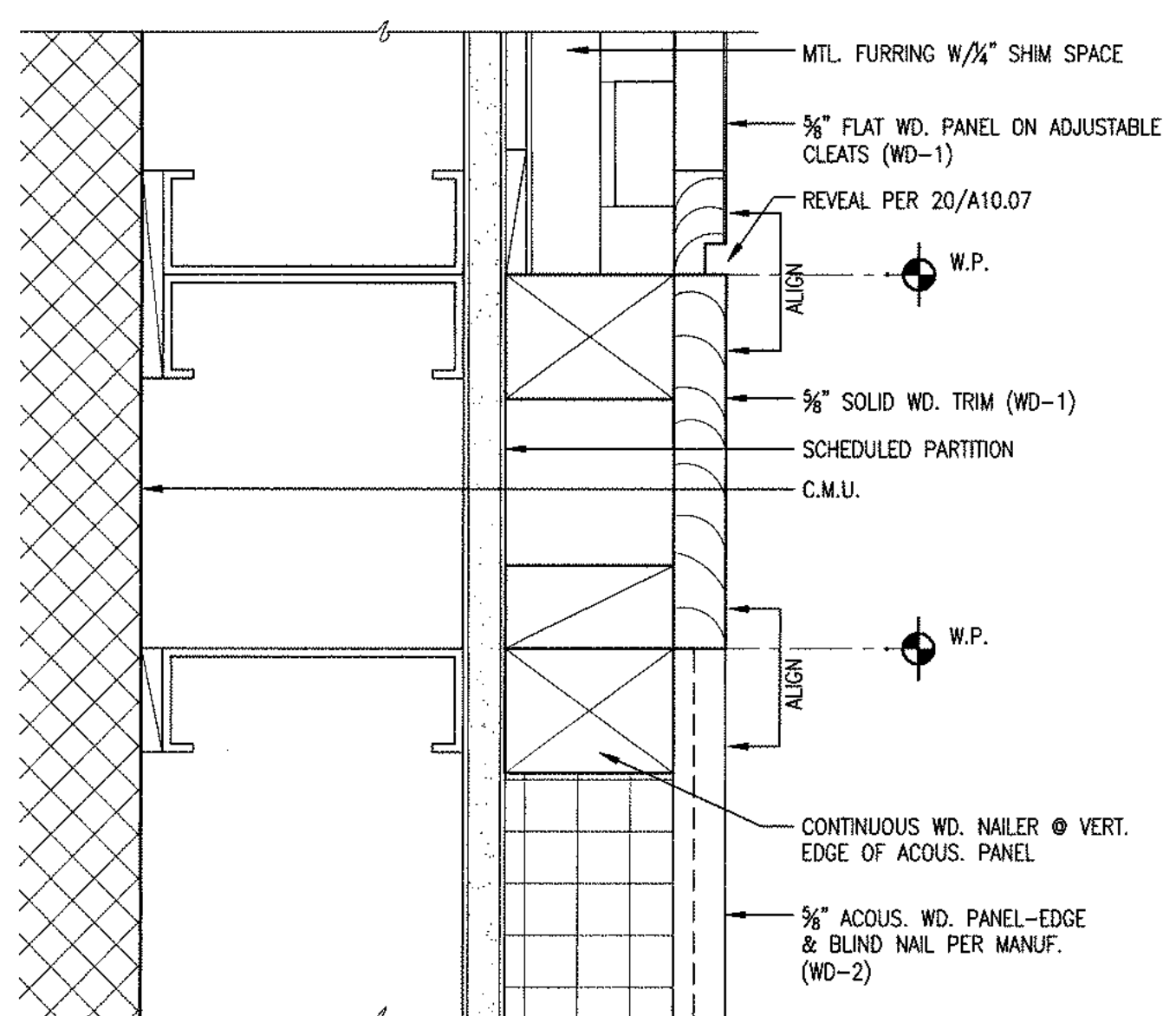
SECTION @ CAMERA NICHE & RETURN AIR PLENUM (11)
3\"/>



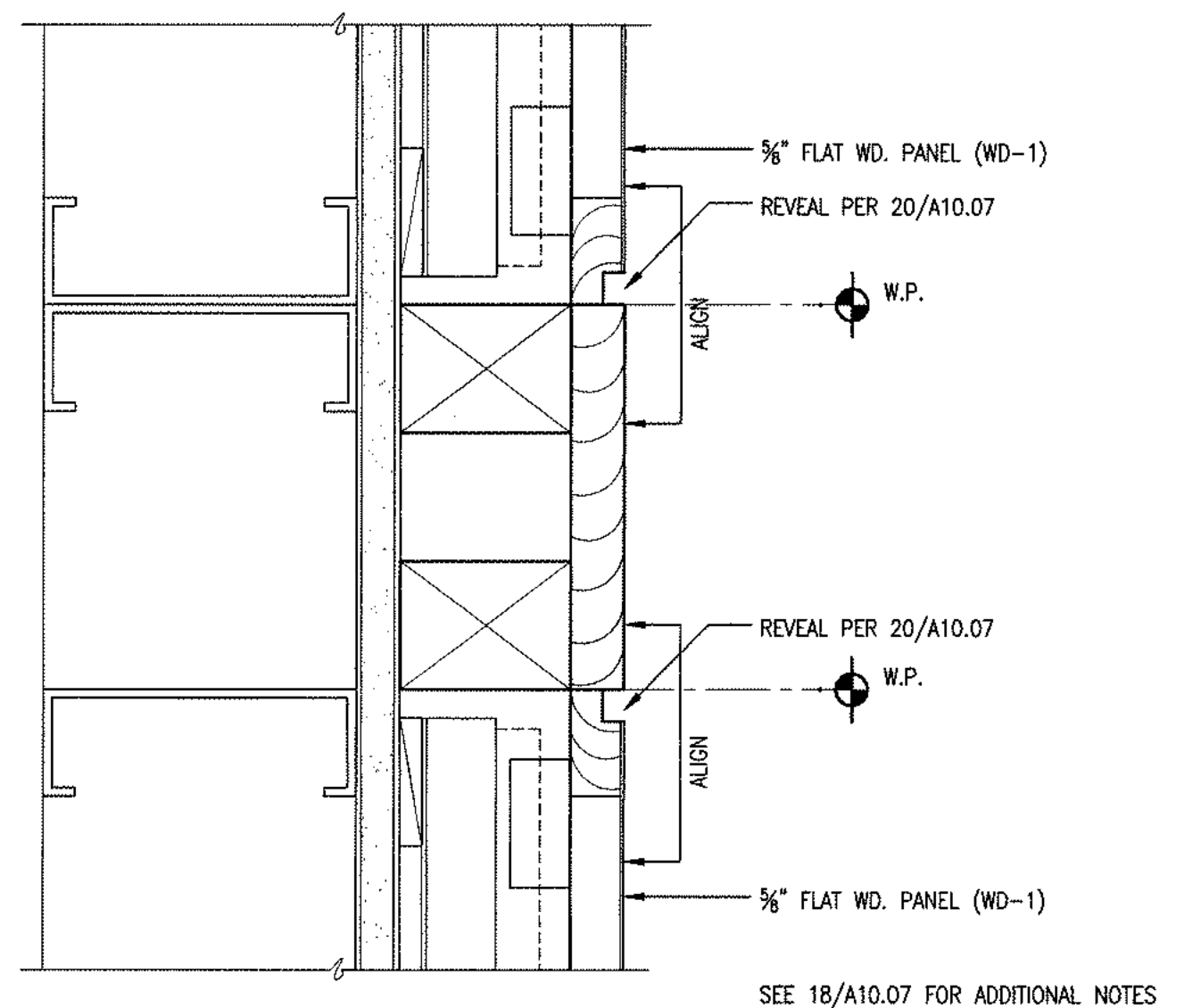
PLAN @ WOOD PANEL & A.C.P. (7)
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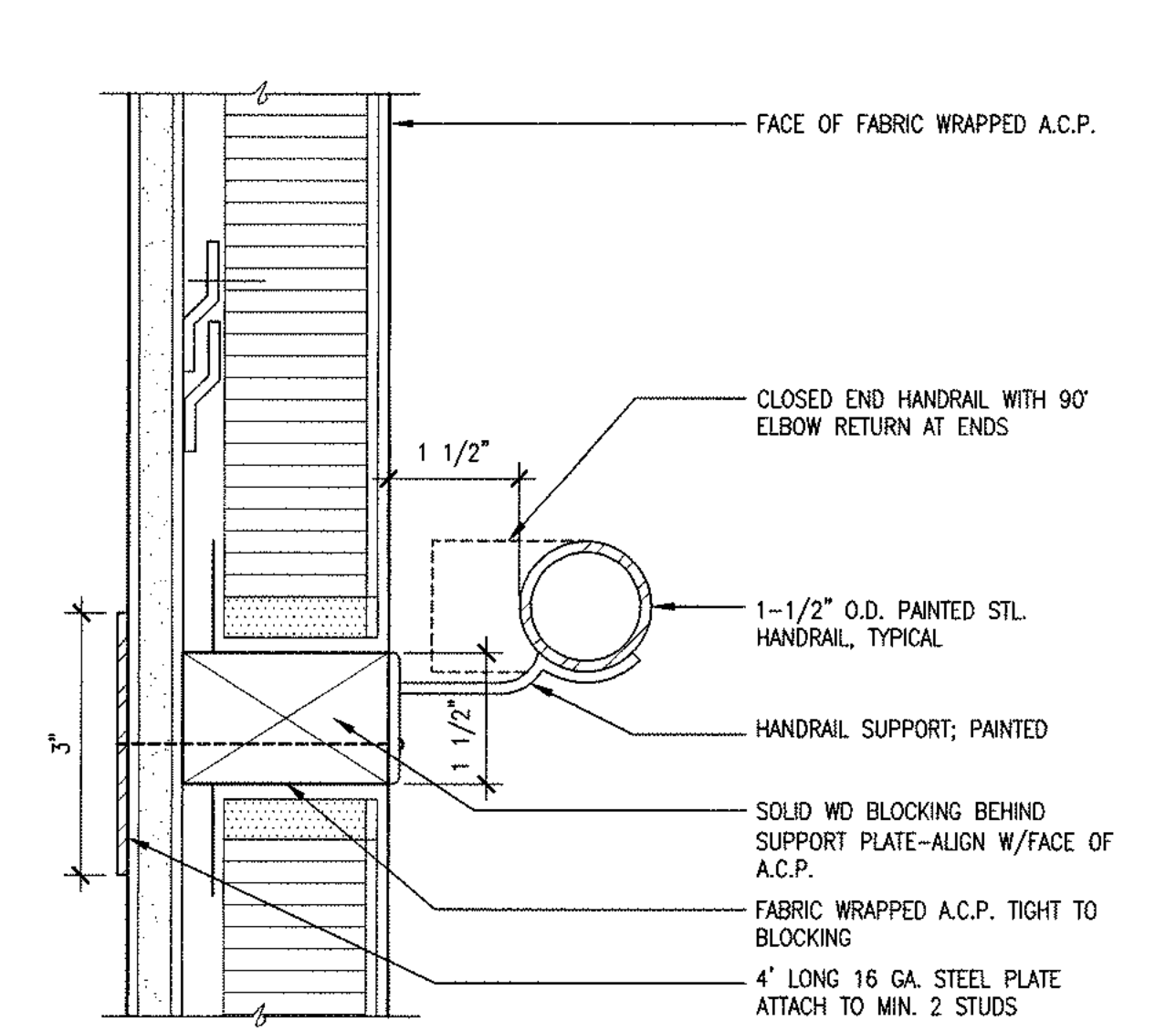
WOOD CAP @ LOW WALL (3)
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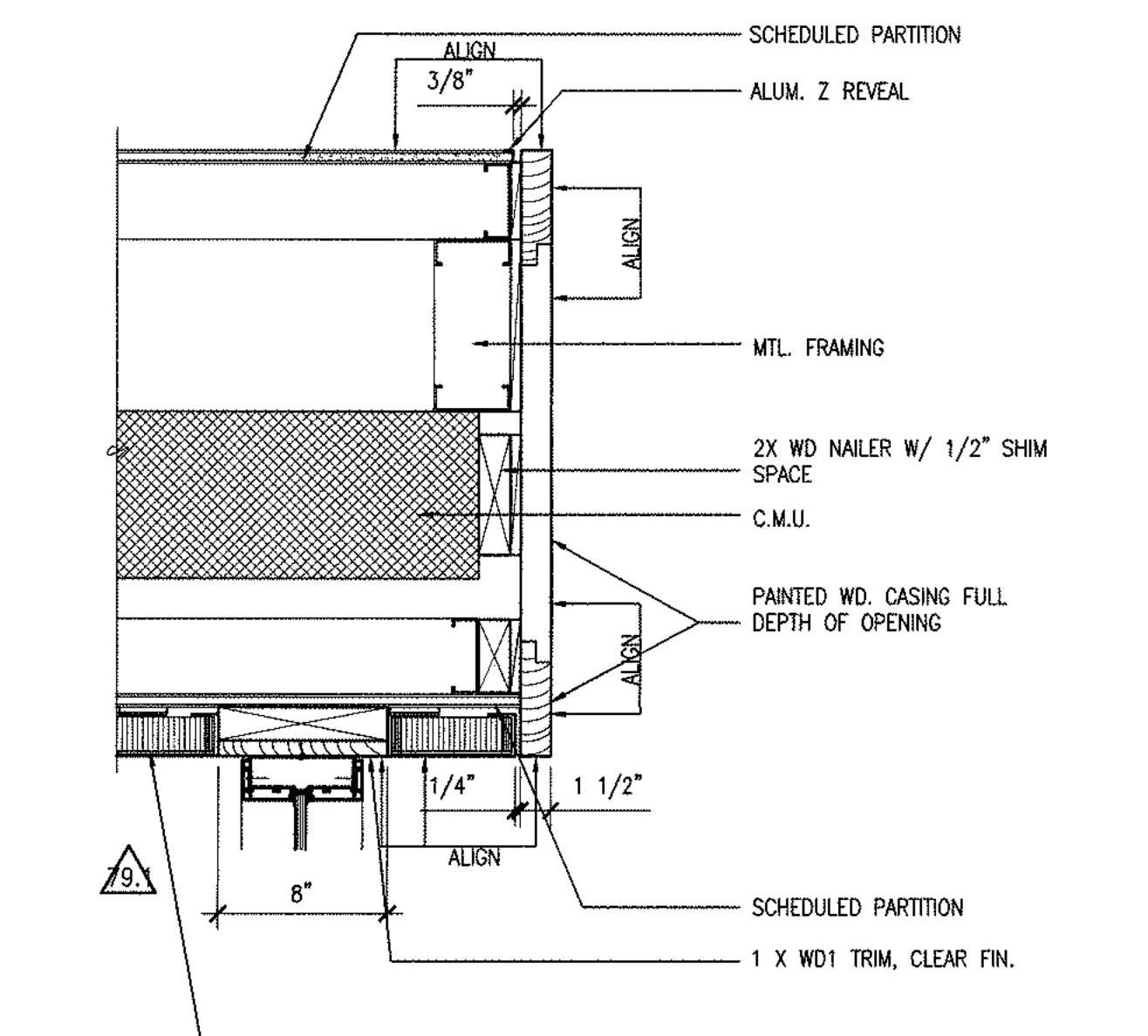
PLAN @ ACOUST. WD. PANEL (18)
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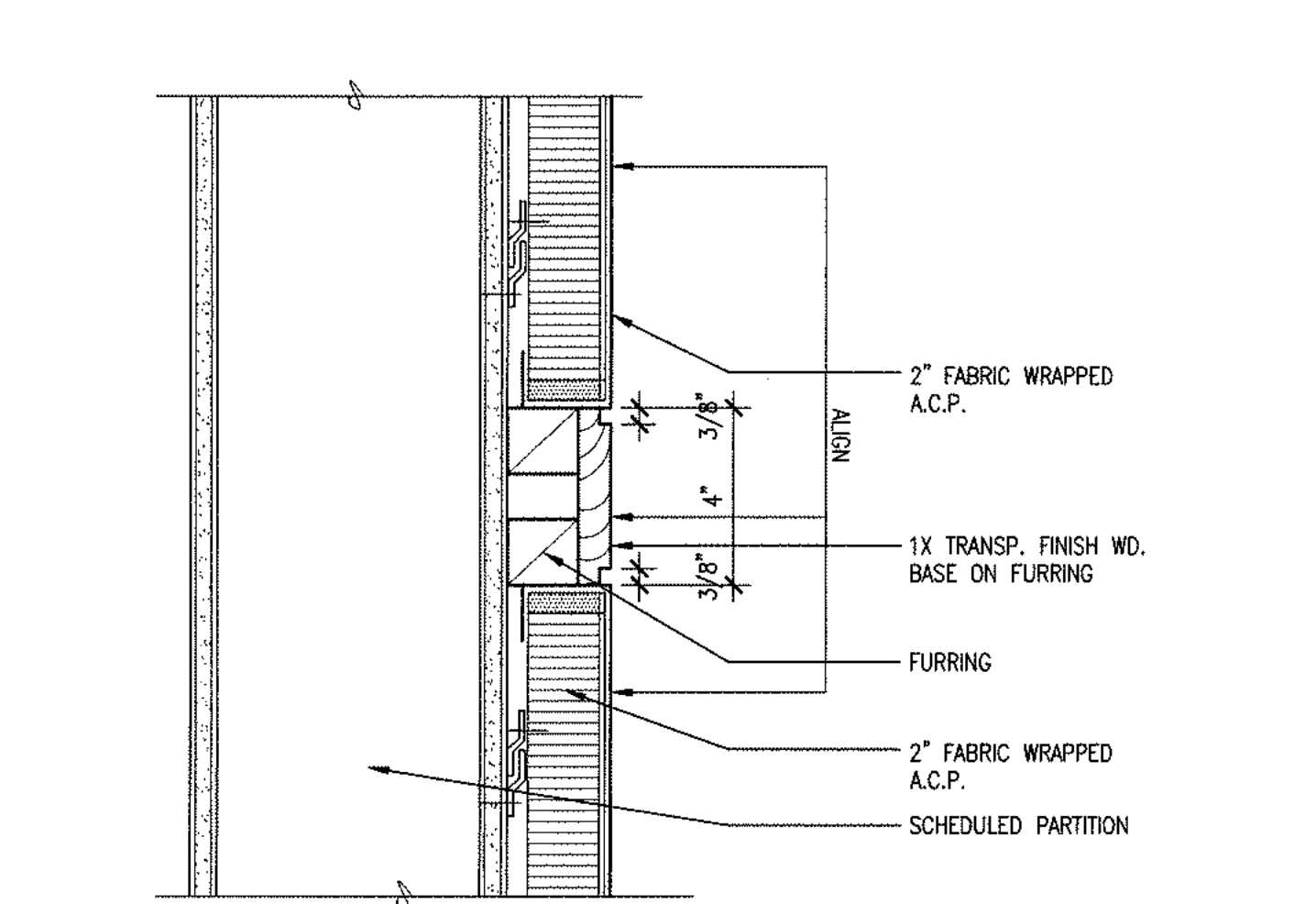
PLAN @ FLAT WD. PANEL (14)
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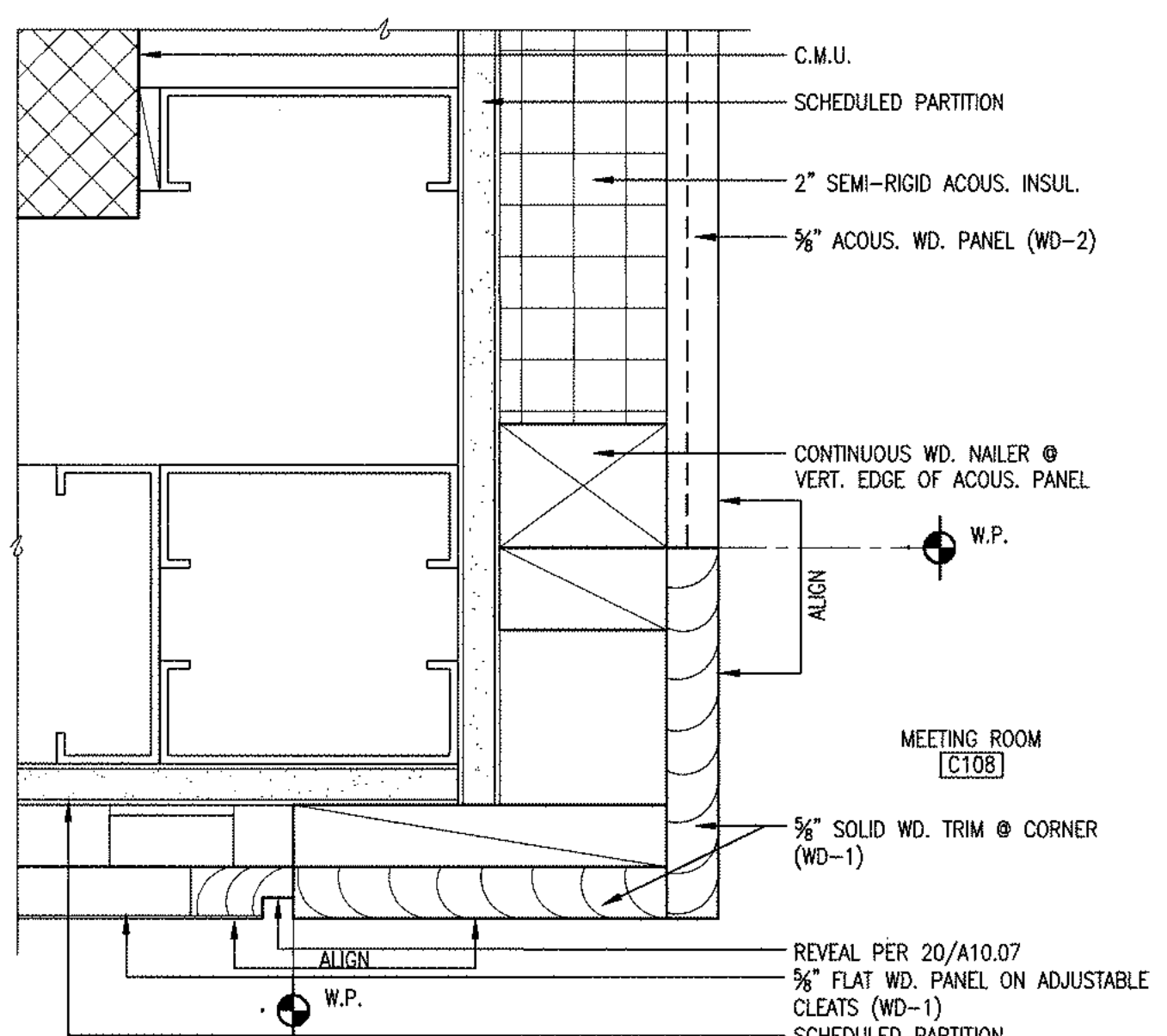
HANDRAIL SECTION @ A.C.P. (10)
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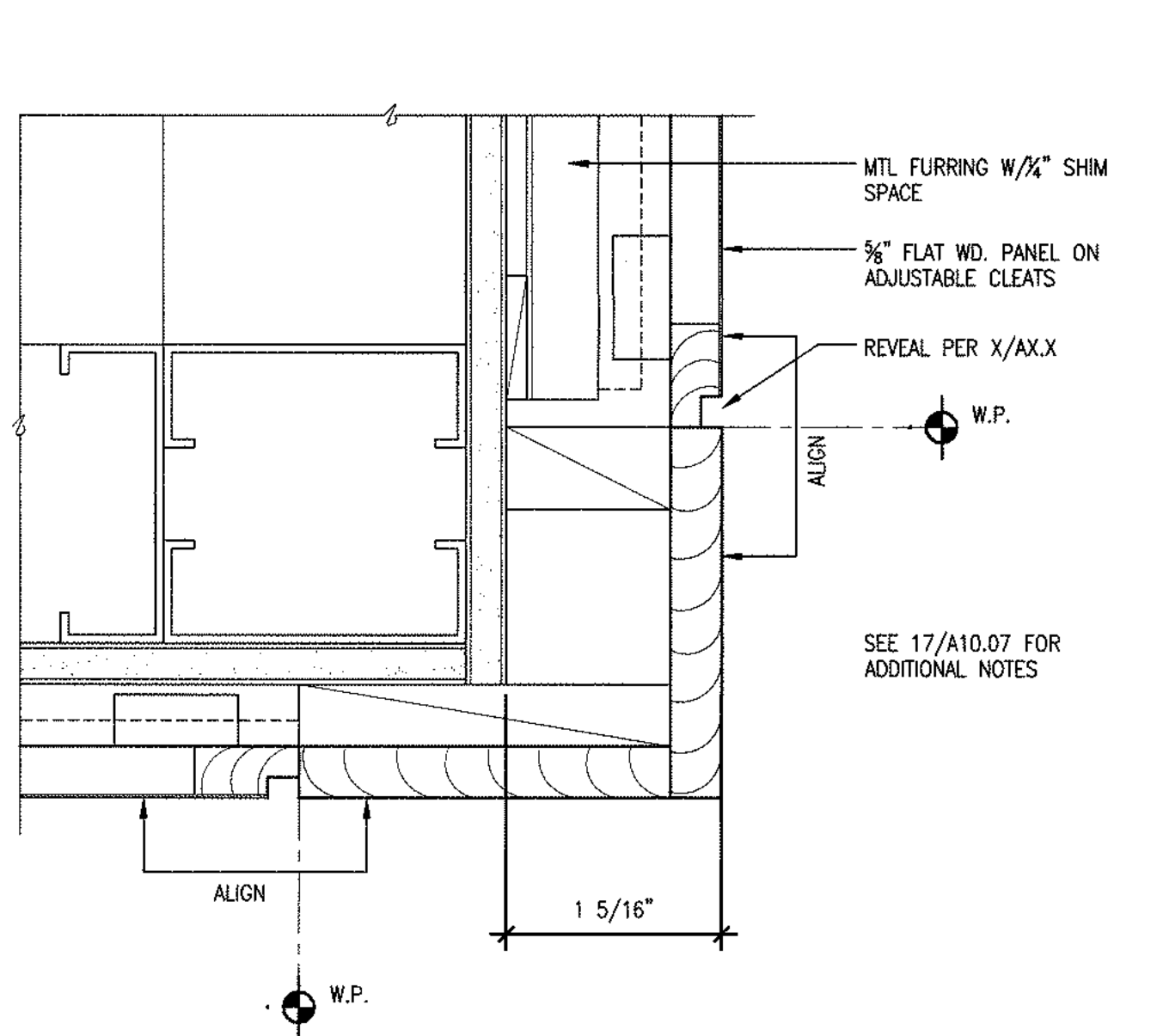
JAMB @ CASED OPENING-HEAD SIM. (6)
1 1/2\"/>



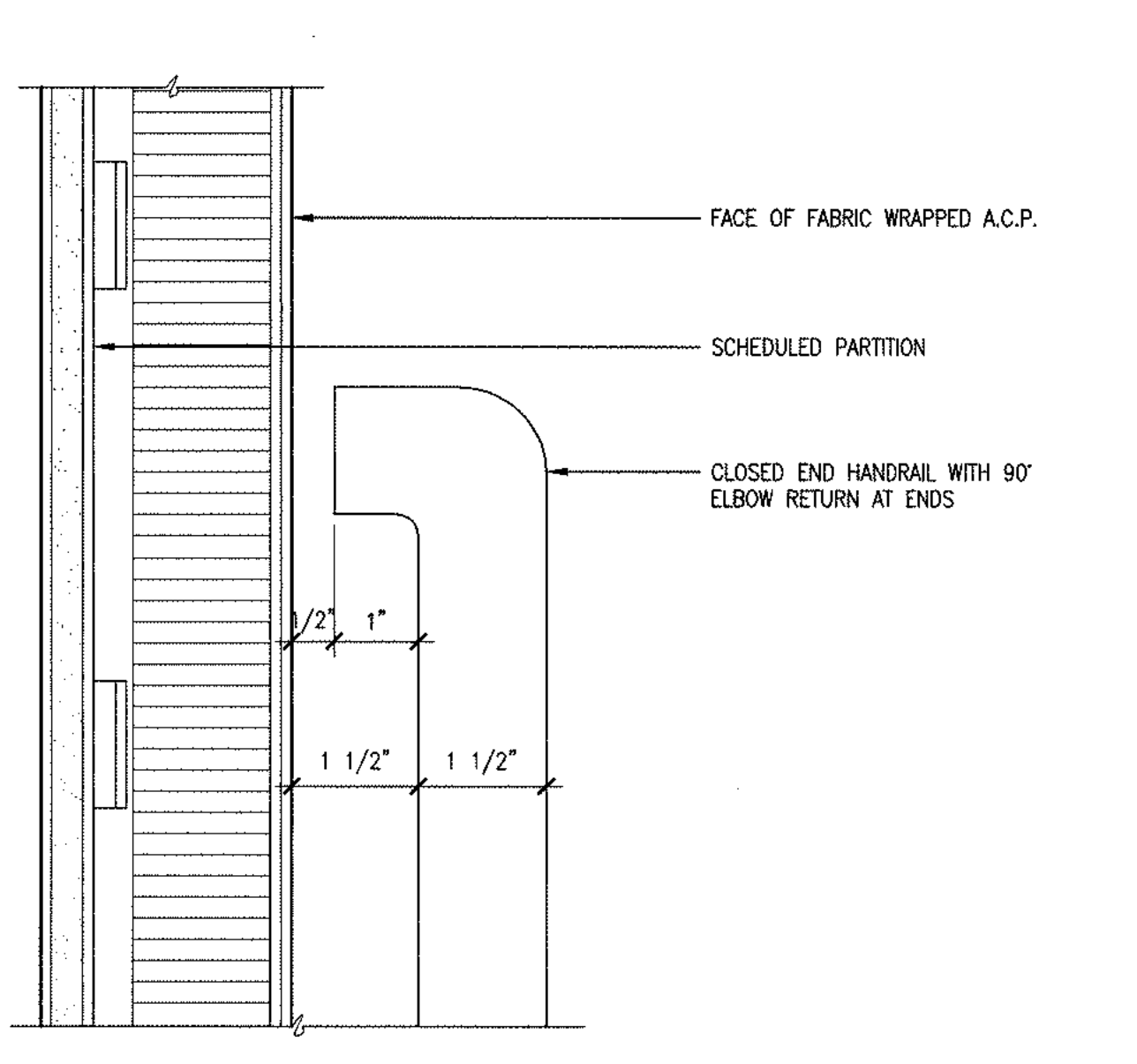
SECTION @ CHAIR RAIL & FABRIC WRAPPED A.C.P. (2)
3\"/>



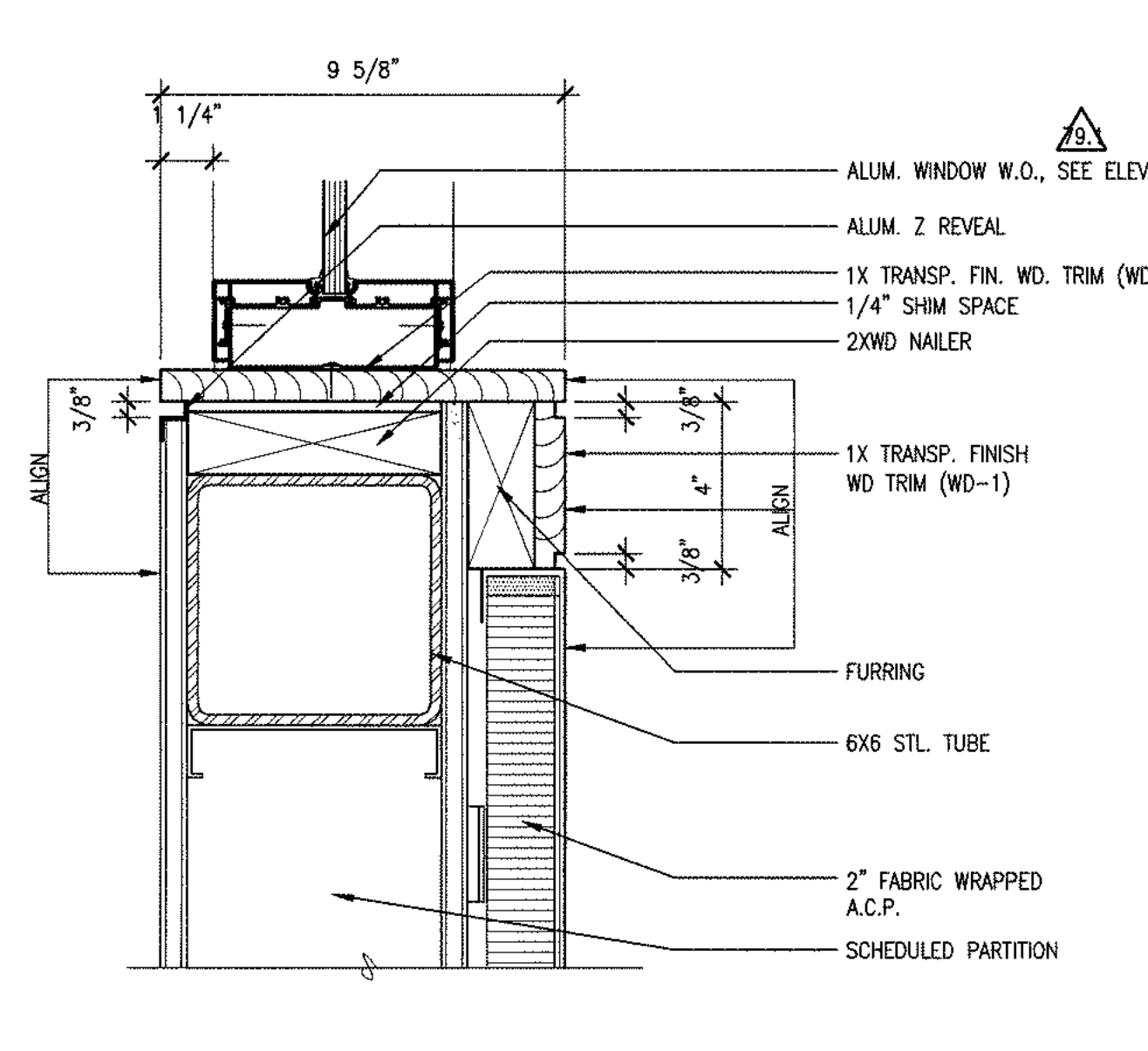
PLAN @ ACOUST. WD. PANEL-OUTSIDE CORNER (17)
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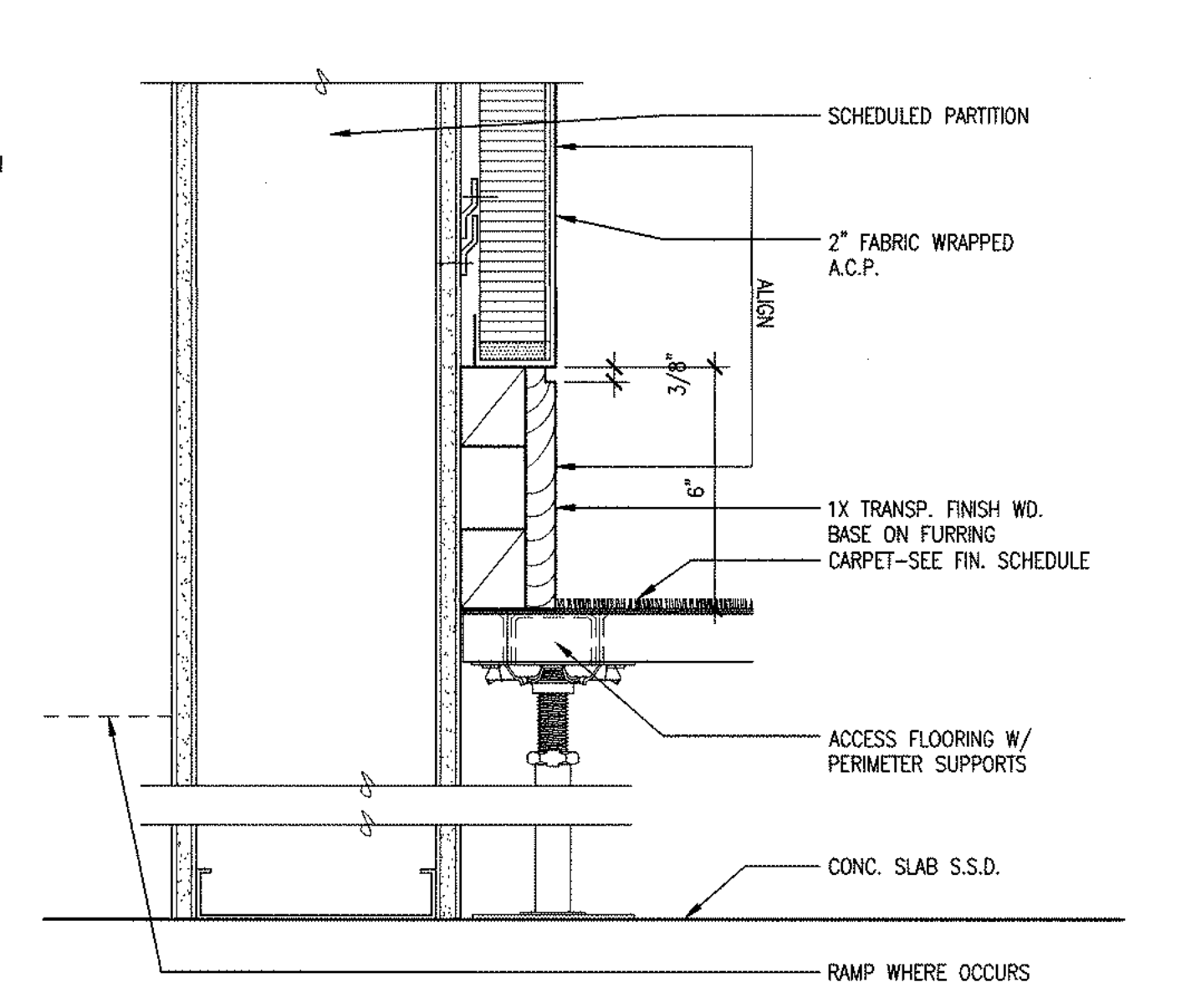
PLAN @ FLAT WD. PANEL-OUTSIDE CORNER (13)
6\"/>



HANDRAIL PLAN @ A.C.P. (9)
6\"/>



PLAN @ END OF LOW WALL (5)
3\"/>



WOOD BASE @ FABRIC WRAPPED A.C.P. (1)
3\"/>

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415.549.6400 T
415.882.7886 F
www.siemann.com

interiors
planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408.777.3354 T
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590 Menlo Drive, Suite 1
Rocklin, CA 95765
916.435.2400 T
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Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
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1650 Fine Street
San Francisco, CA 94111
415.837.0700 T
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San Francisco, CA 94105
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2003.05.07 ADDENDUM NO. 1

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Contract Documents

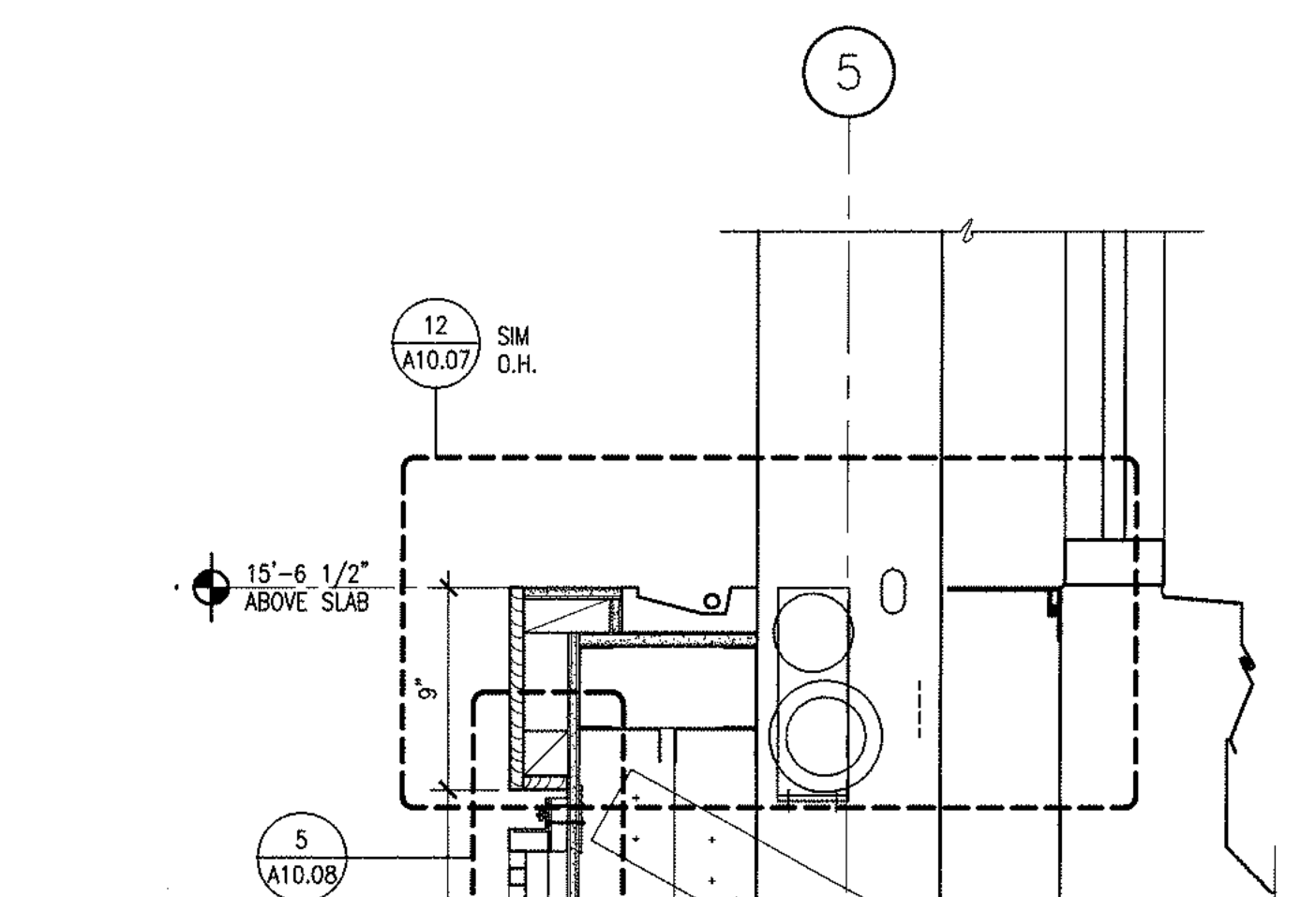
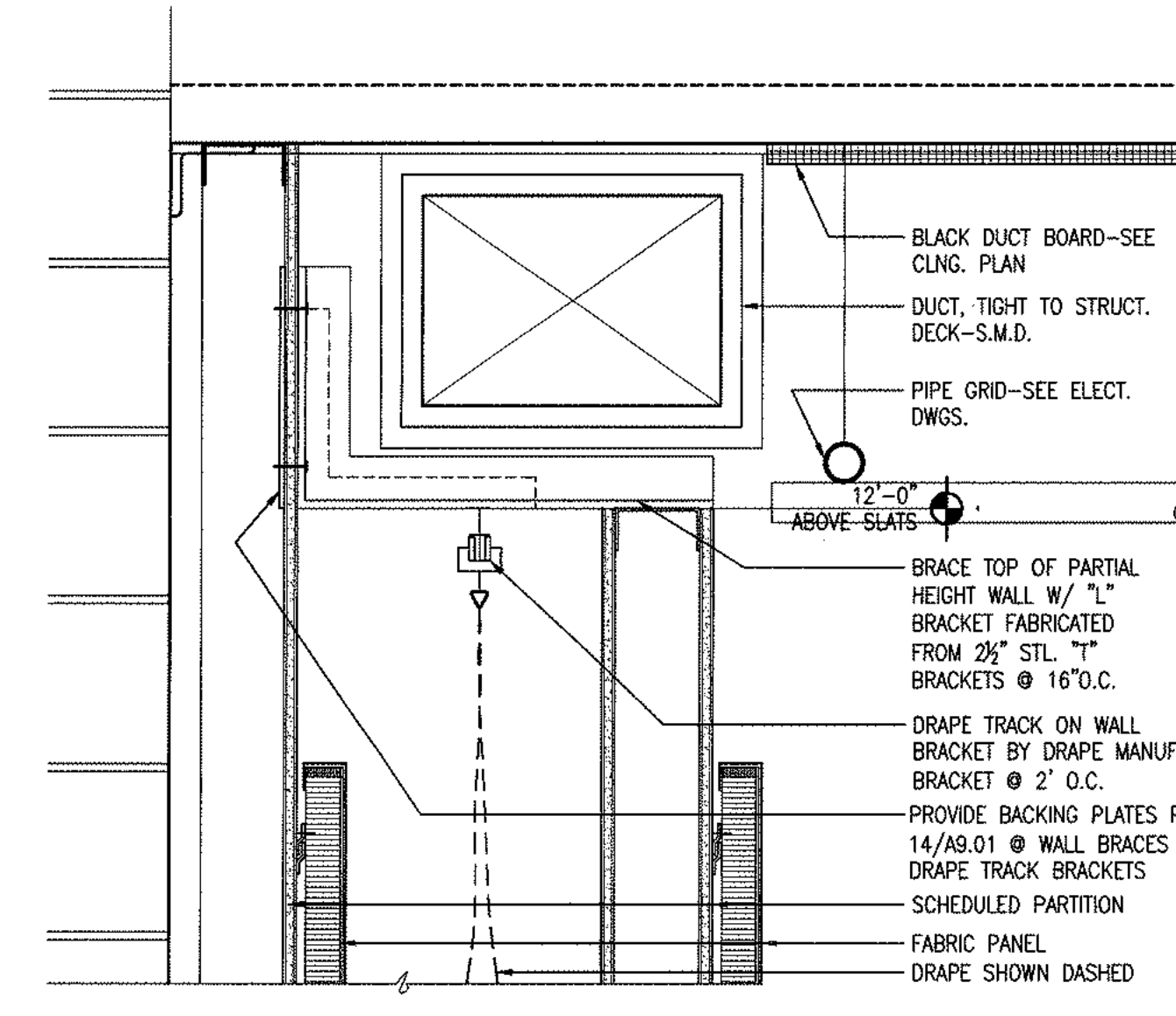
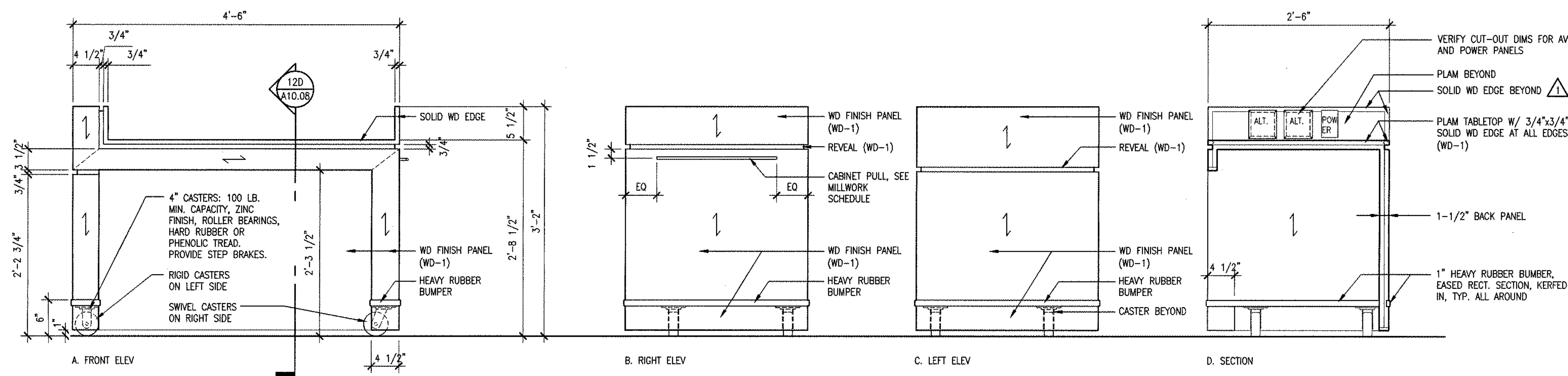
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EXP. 3/31/08
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BID SET

INTERIOR
DETAILS

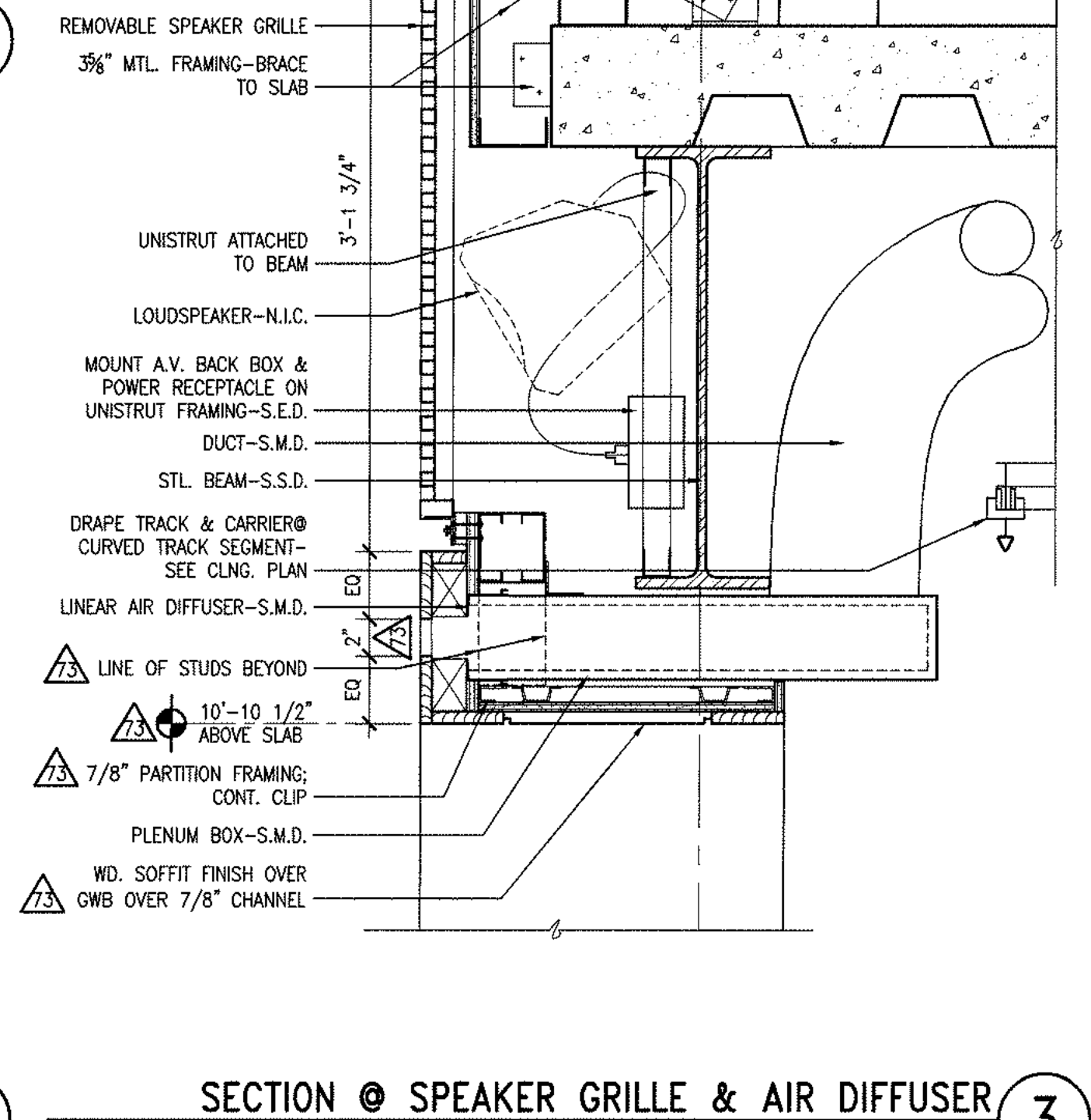
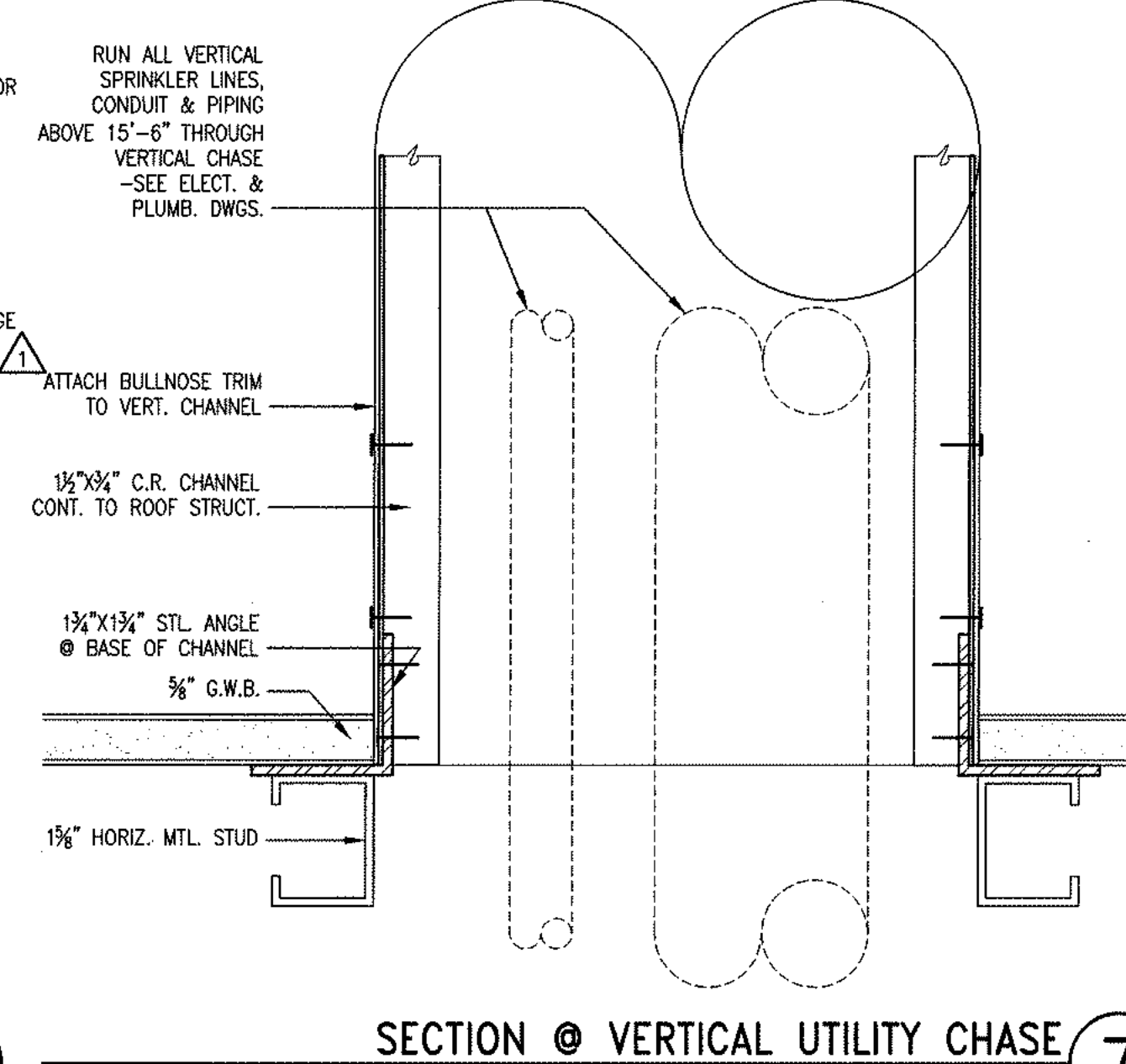
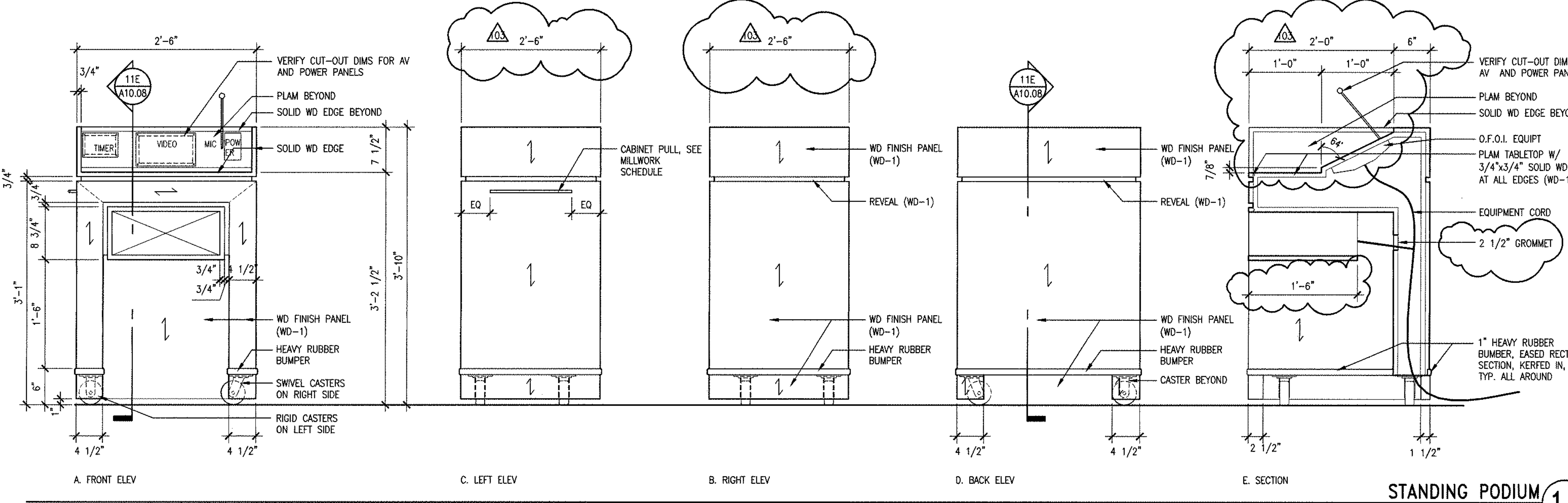
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drawn by JL project number 20114.00
sheet number

A10.07



DOCUMENT TABLE 12
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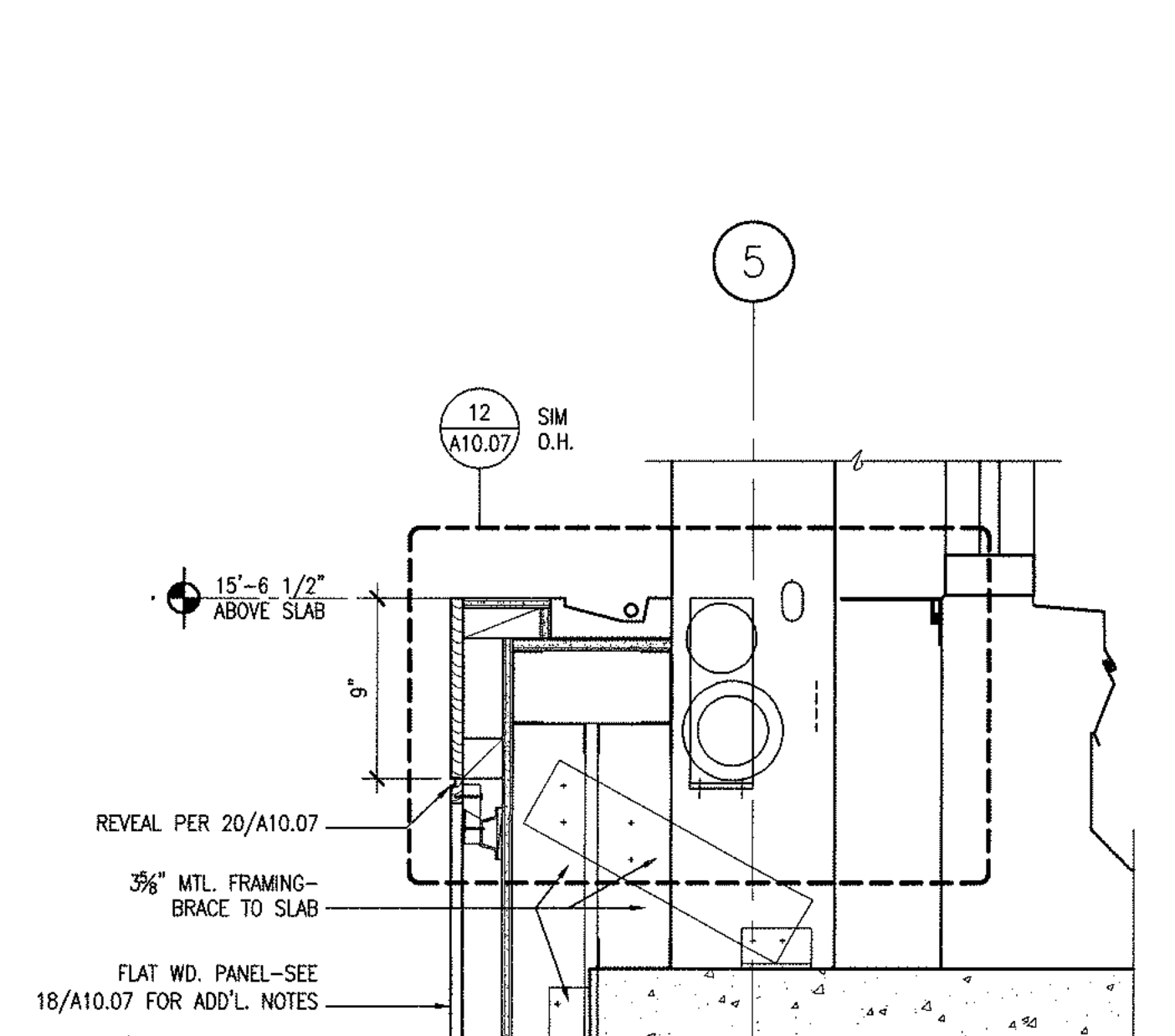
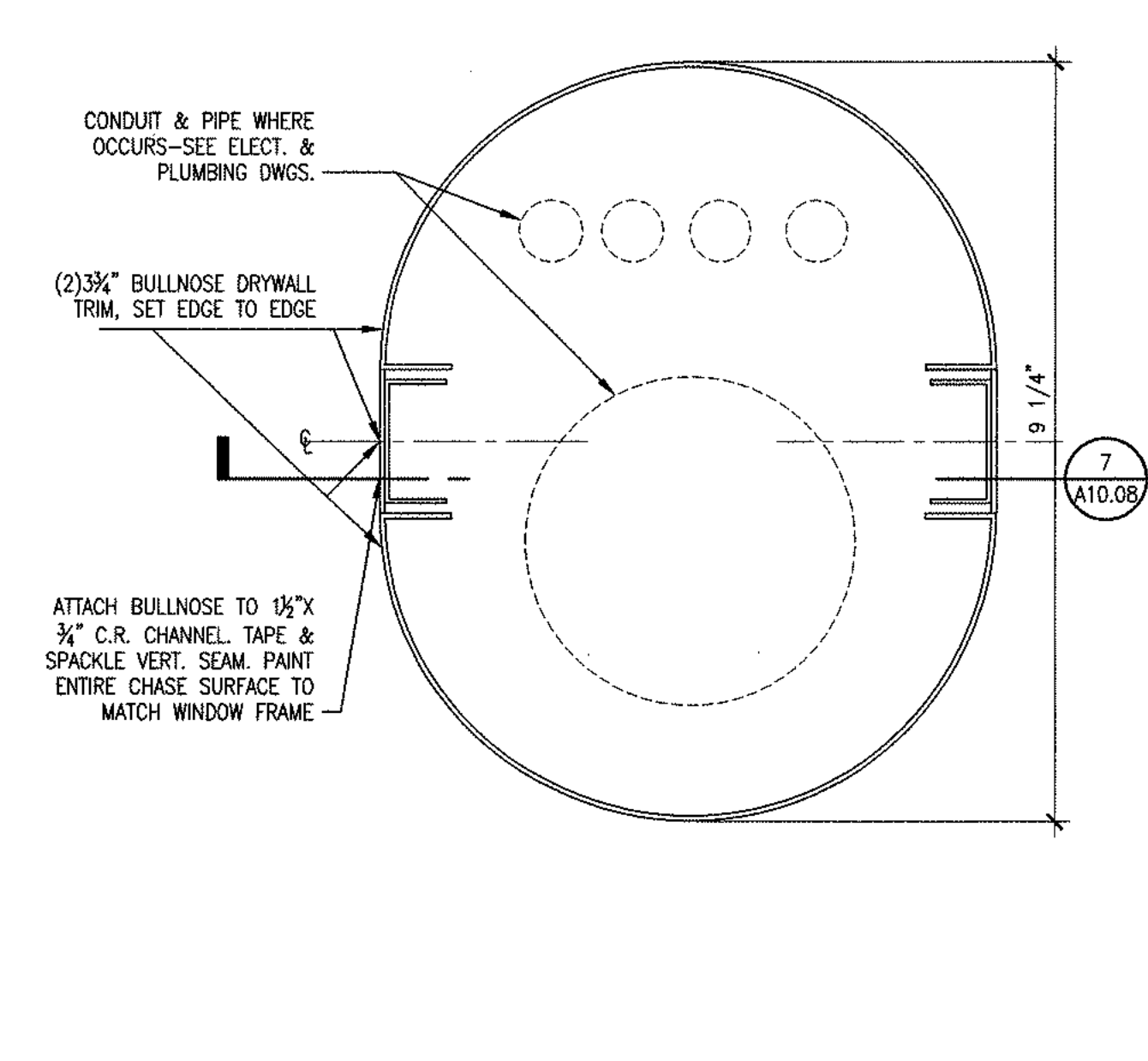
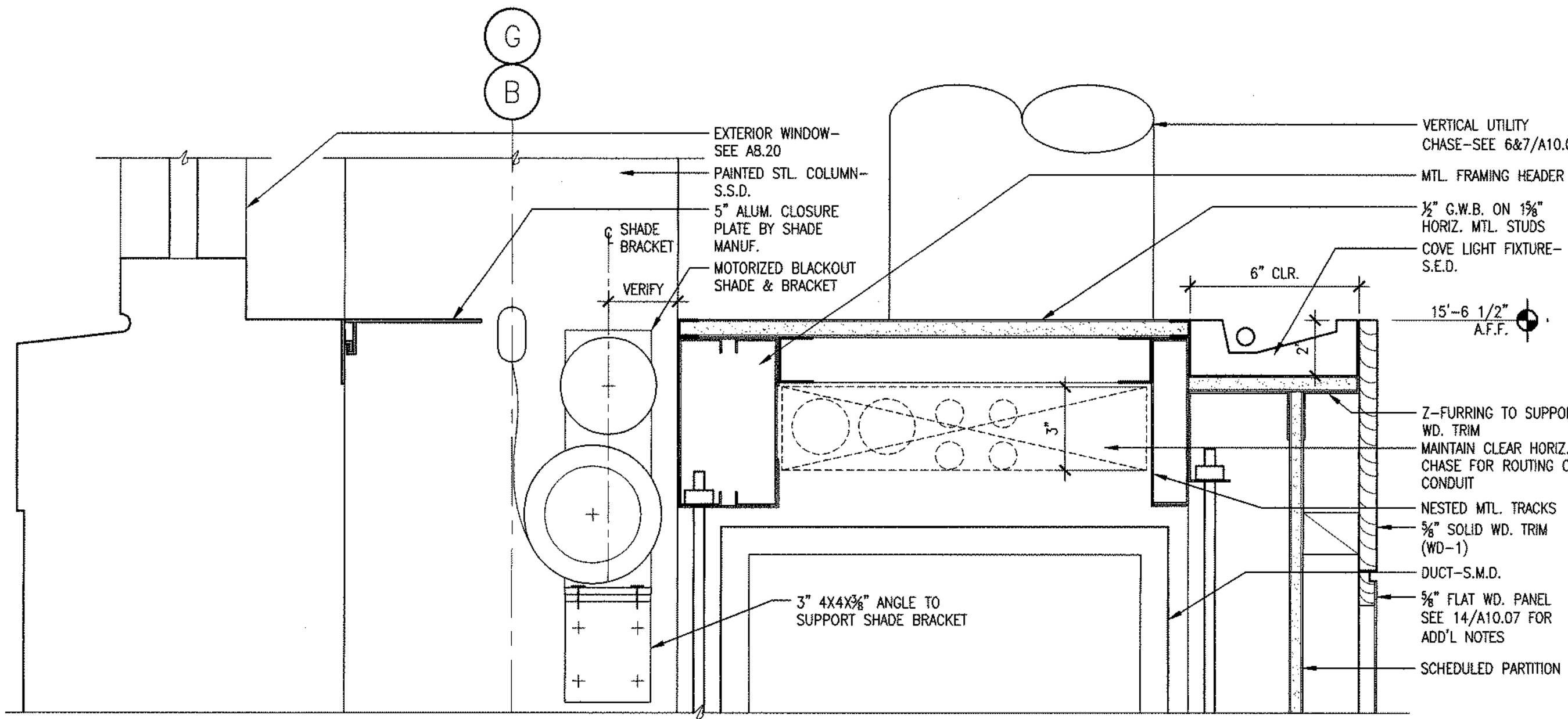
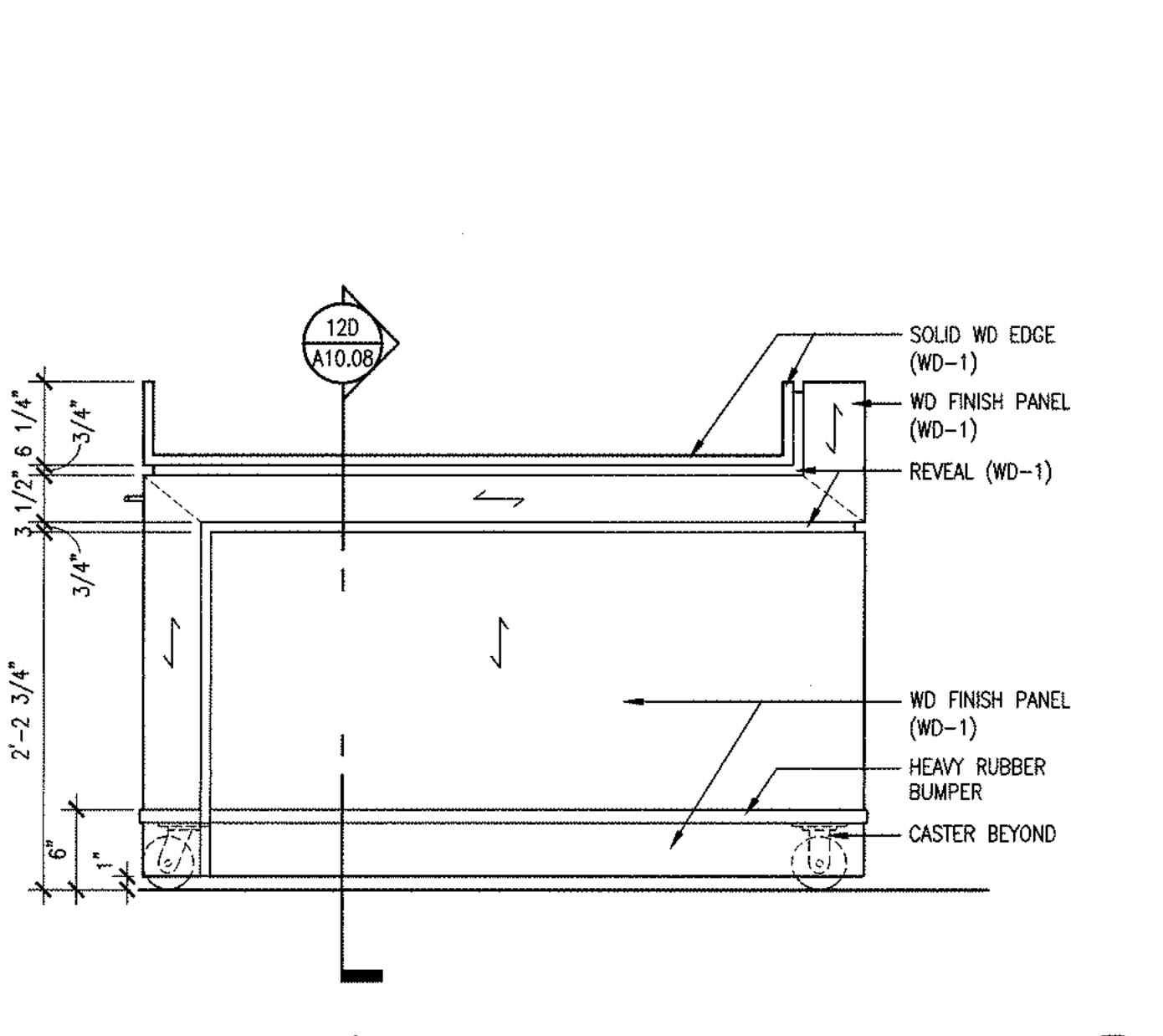
BRACING @ SCREEN WALL 8
1 1/2" = 1'-0"



STANDING PODIUM 11
1" = 1'-0"

SECTION @ VERTICAL UTILITY CHASE 7
6" = 1'-0"

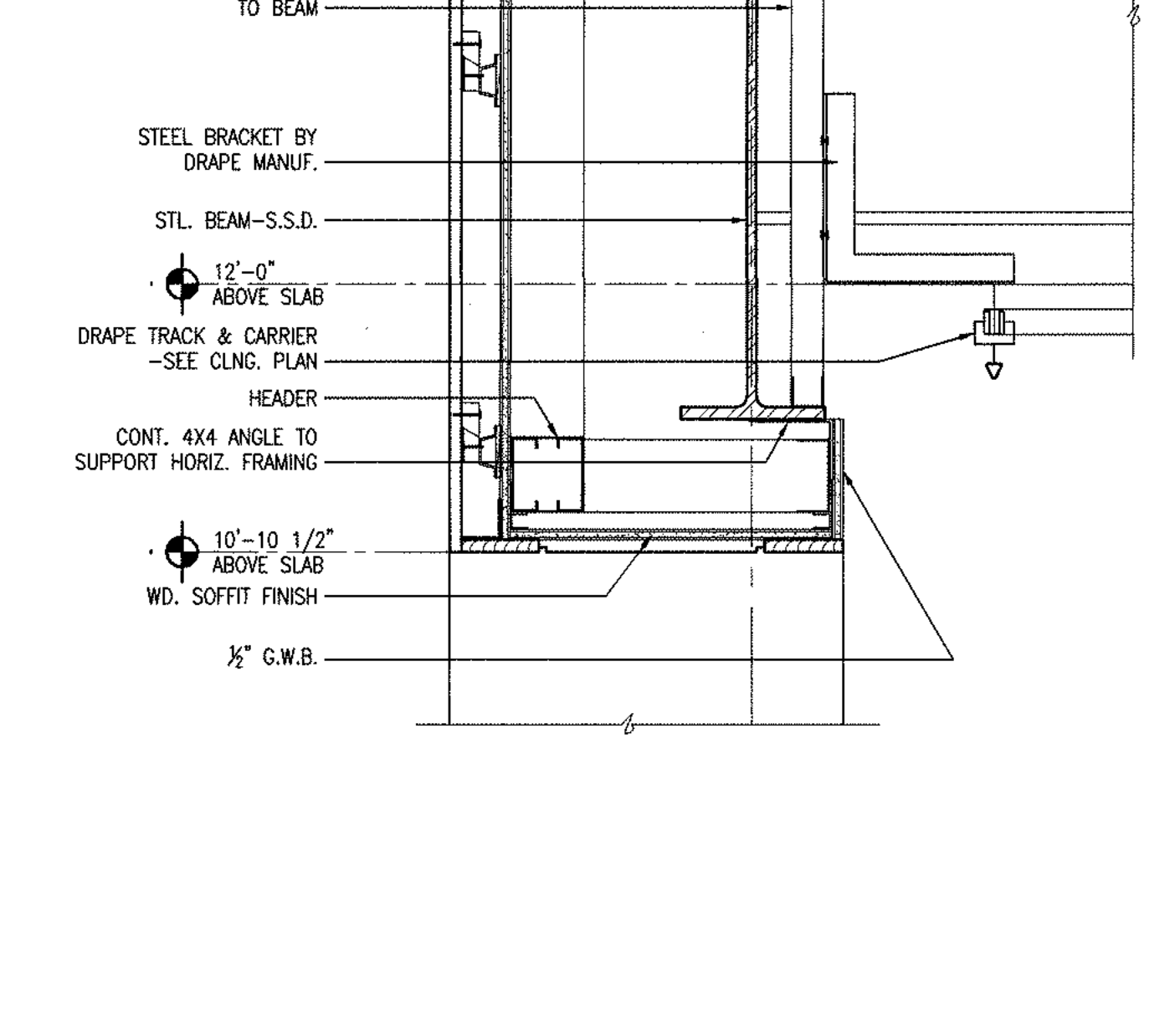
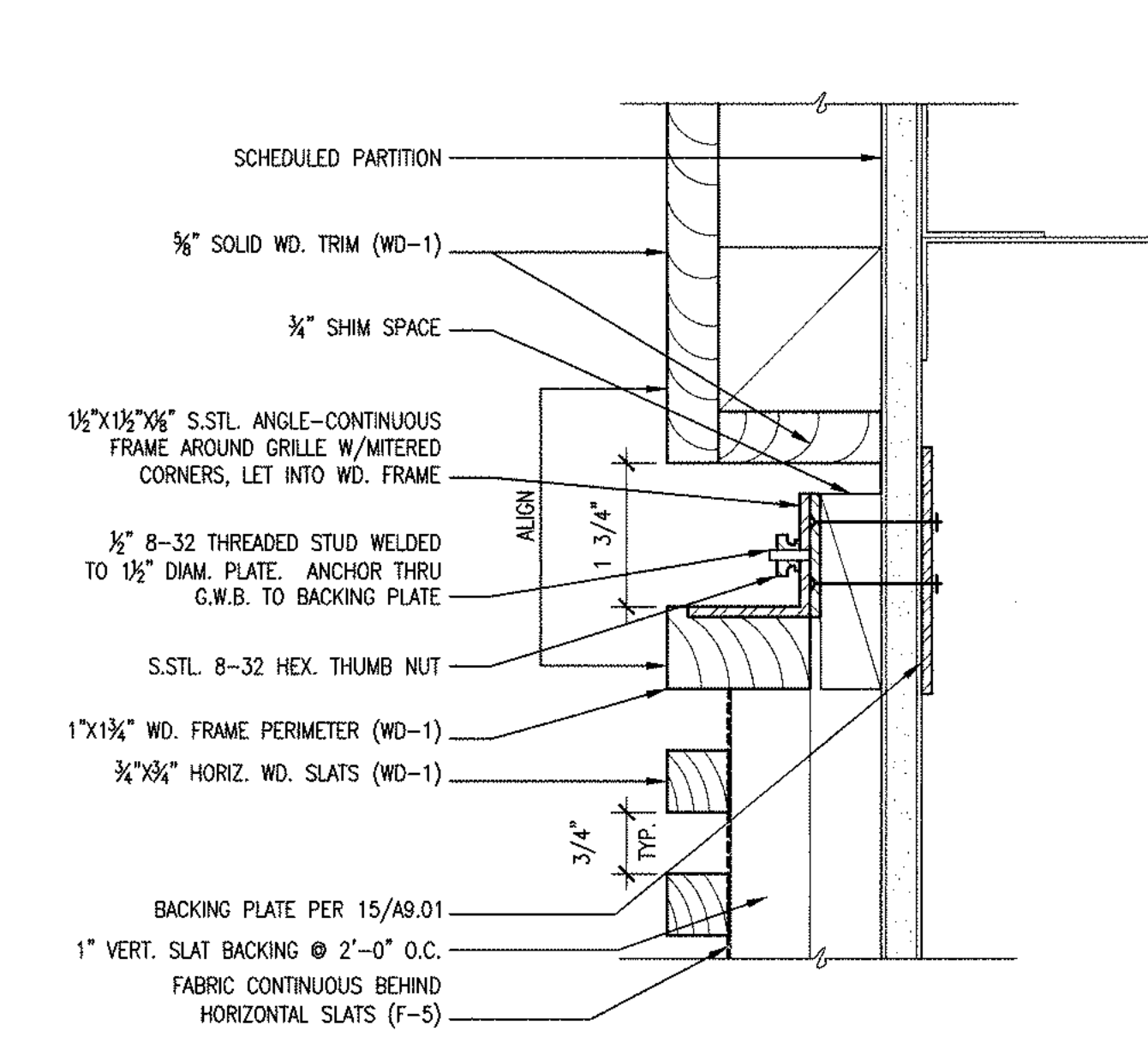
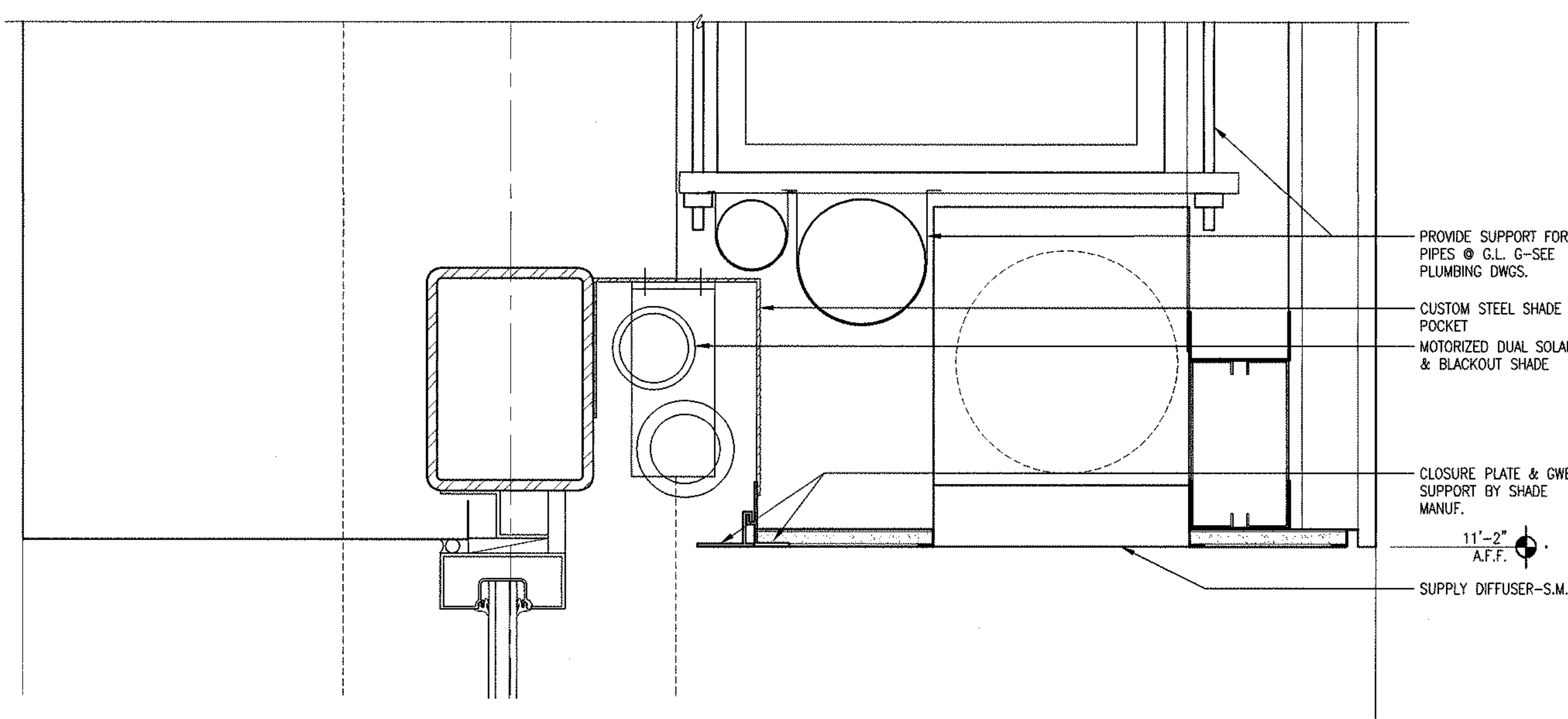
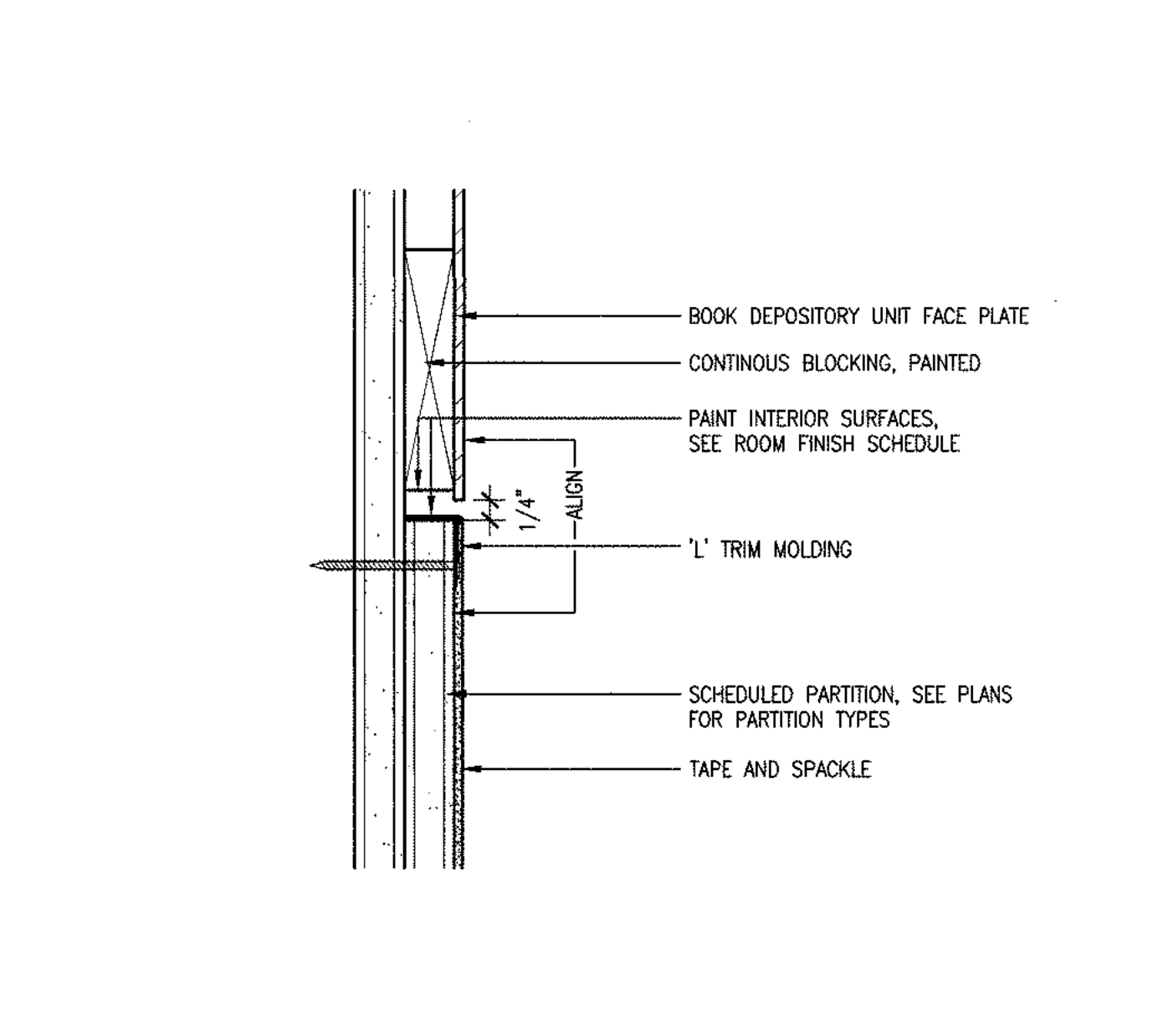
SECTION @ SPEAKER GRILLE & AIR DIFFUSER 3
1 1/2" = 1'-0"



DOCUMENT TABLE: BACK ELEVATION 18
1" = 1'-0"

PLAN @ VERTICAL UTILITY CHASE 6
6" = 1'-0"

SECTION @ PROSCENIUM HEADER 5
1 1/2" = 1'-0"



REVEAL 17
6" = 1'-0"

SHADE & COVELIGHT @ G.L. G&B 9
3" = 1'-0"

HEAD @ SPEAKER GRILLE/JAMB. 5
6" = 1'-0"

SECTION @ PROSCENIUM HEADER 1
1 1/2" = 1'-0"

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415.546.0400 T
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www.swmm.com

architecture
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City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

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Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
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Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
415 398 3833 T
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Lighting Design
370 Brannan Street
San Francisco, CA 94107
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revisions
2003.05.07 ADDENDUM NO. 1
2004.09.22 CCD 101

11-29-04 Updated
Contract Documents

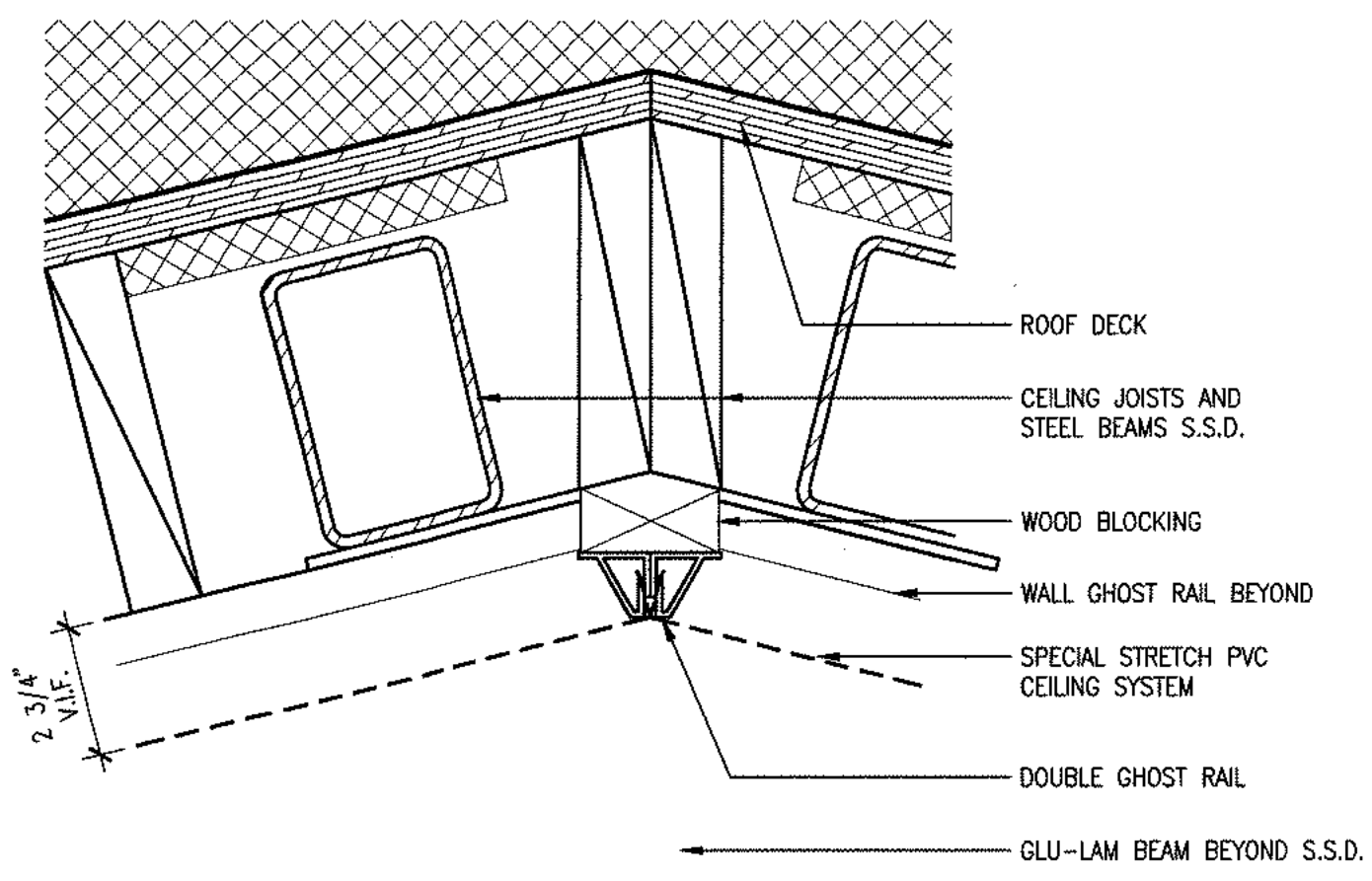
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LINDA A. SOBUE
NO. C17420
EXP. 3/31/05
STATE OF CALIFORNIA

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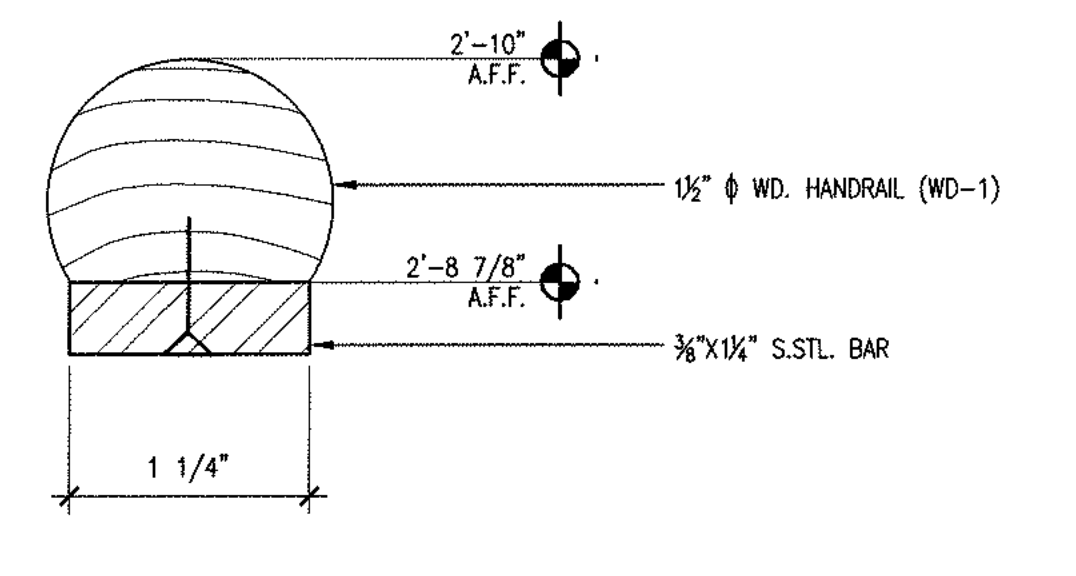
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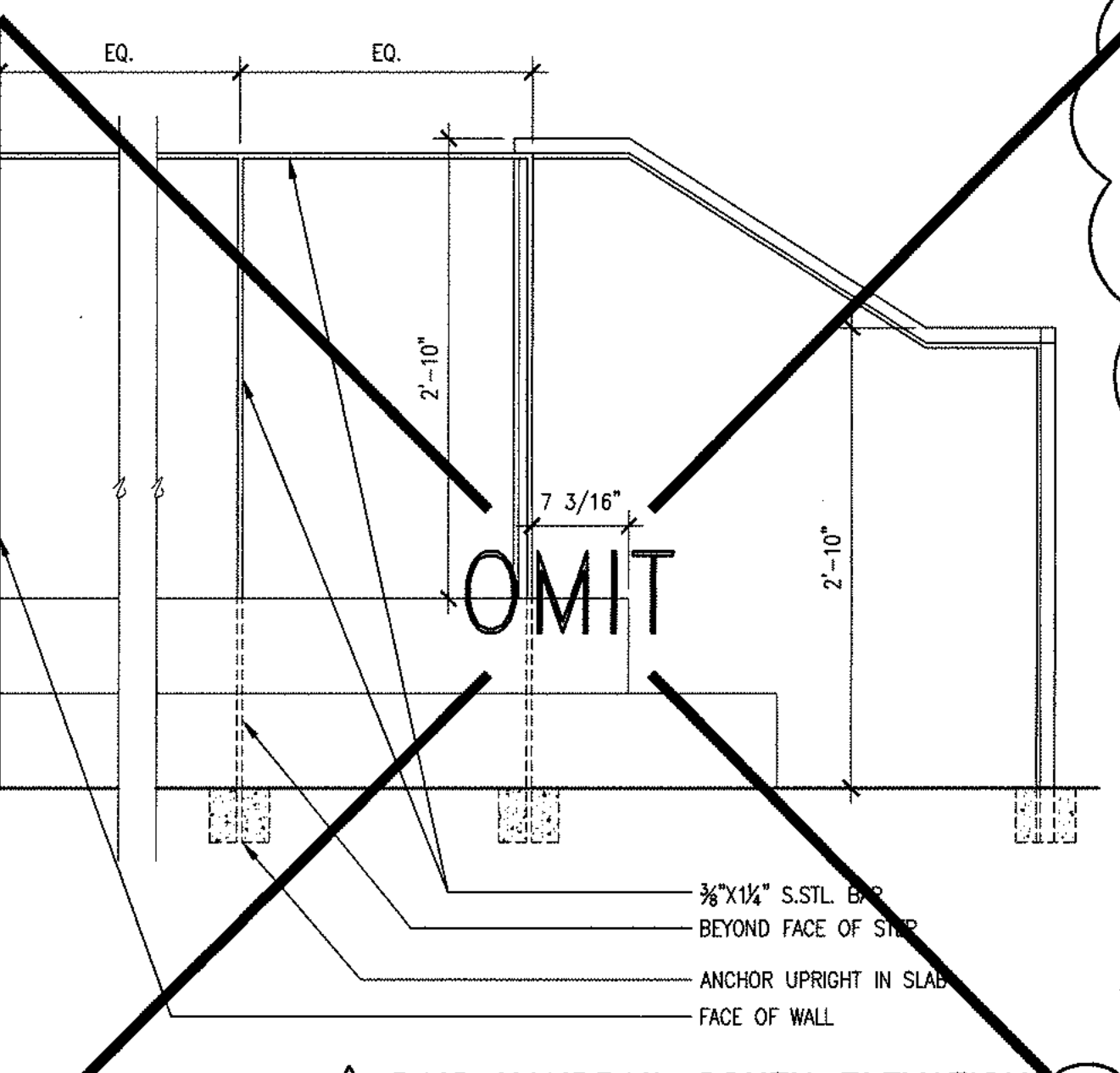
A10.08



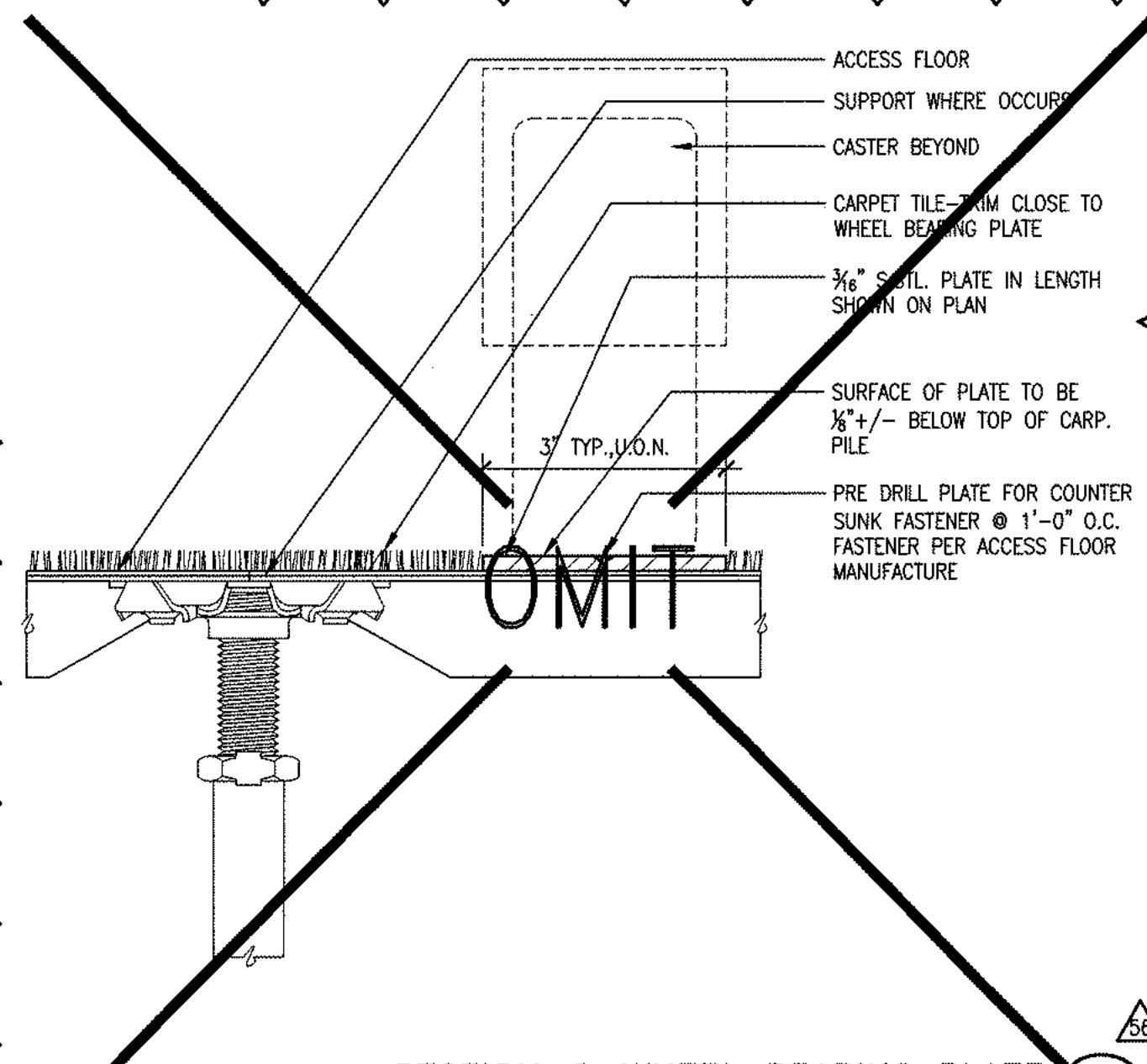
CEILING AT RIDGE (20)
 3" = 1'-0"



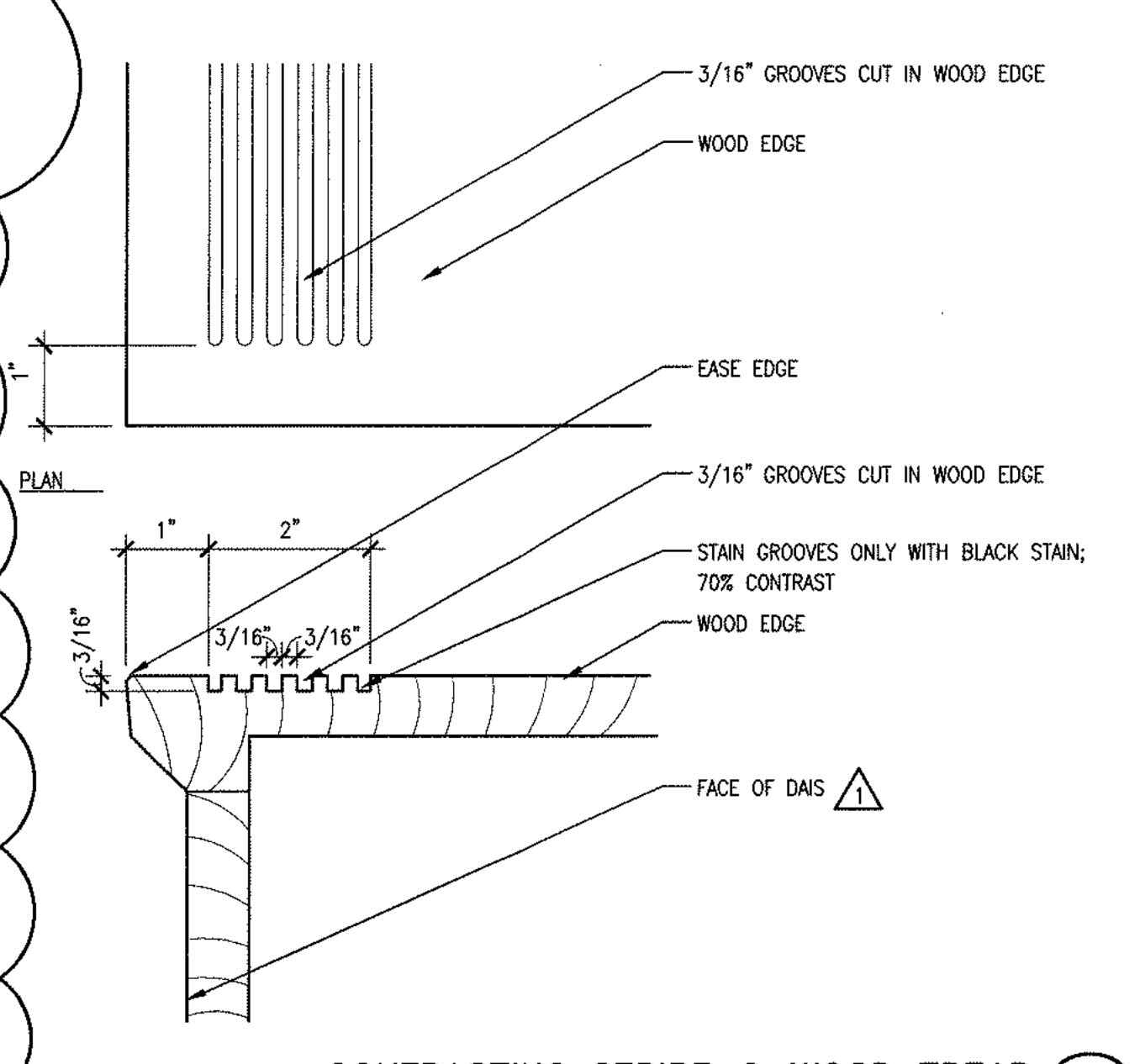
HANDRAIL GRIP SECTION (16)
 FULL SCALE



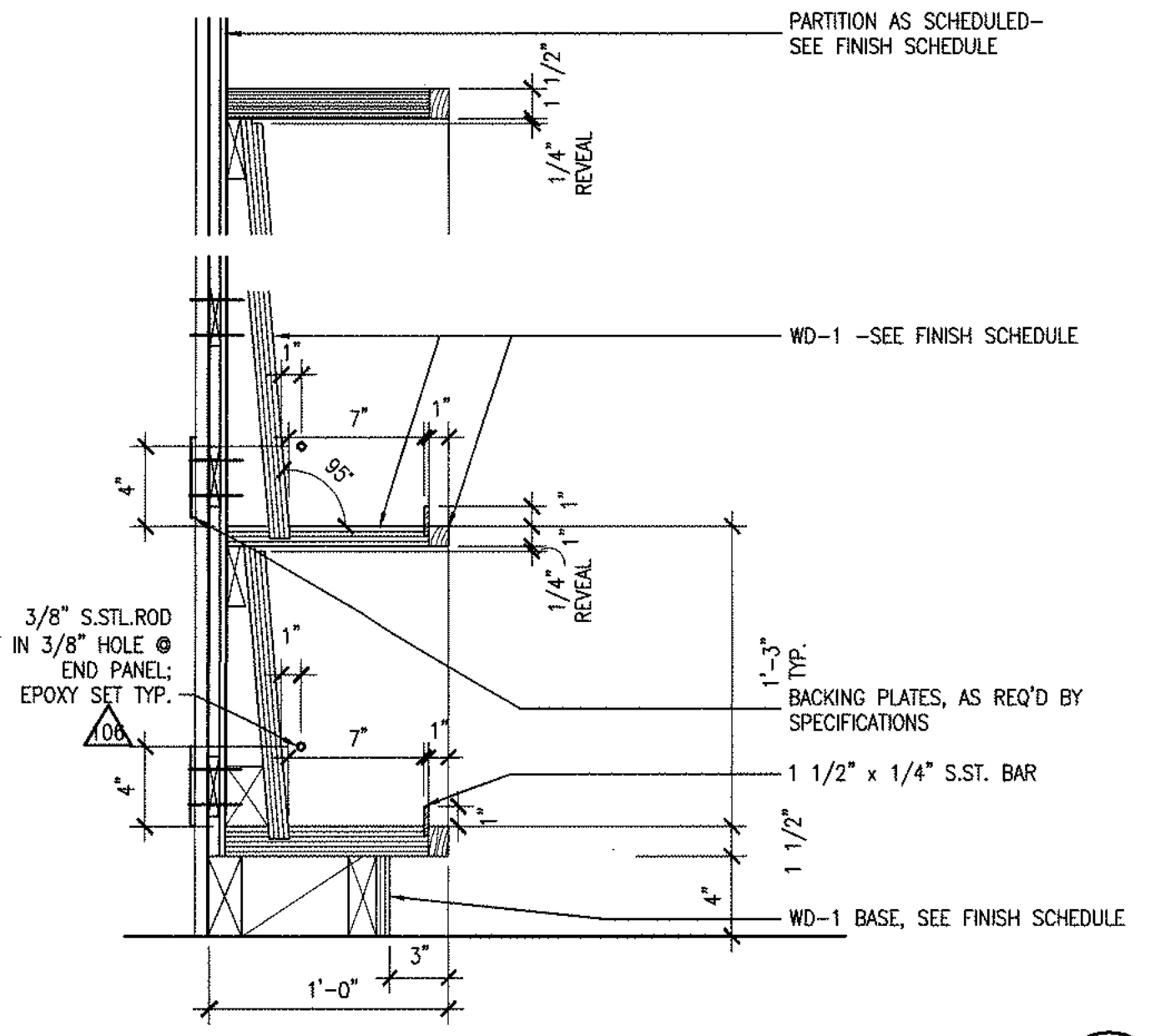
DAIS HANDRAIL SOUTH ELEVATION (12)
 1" = 1'-0"



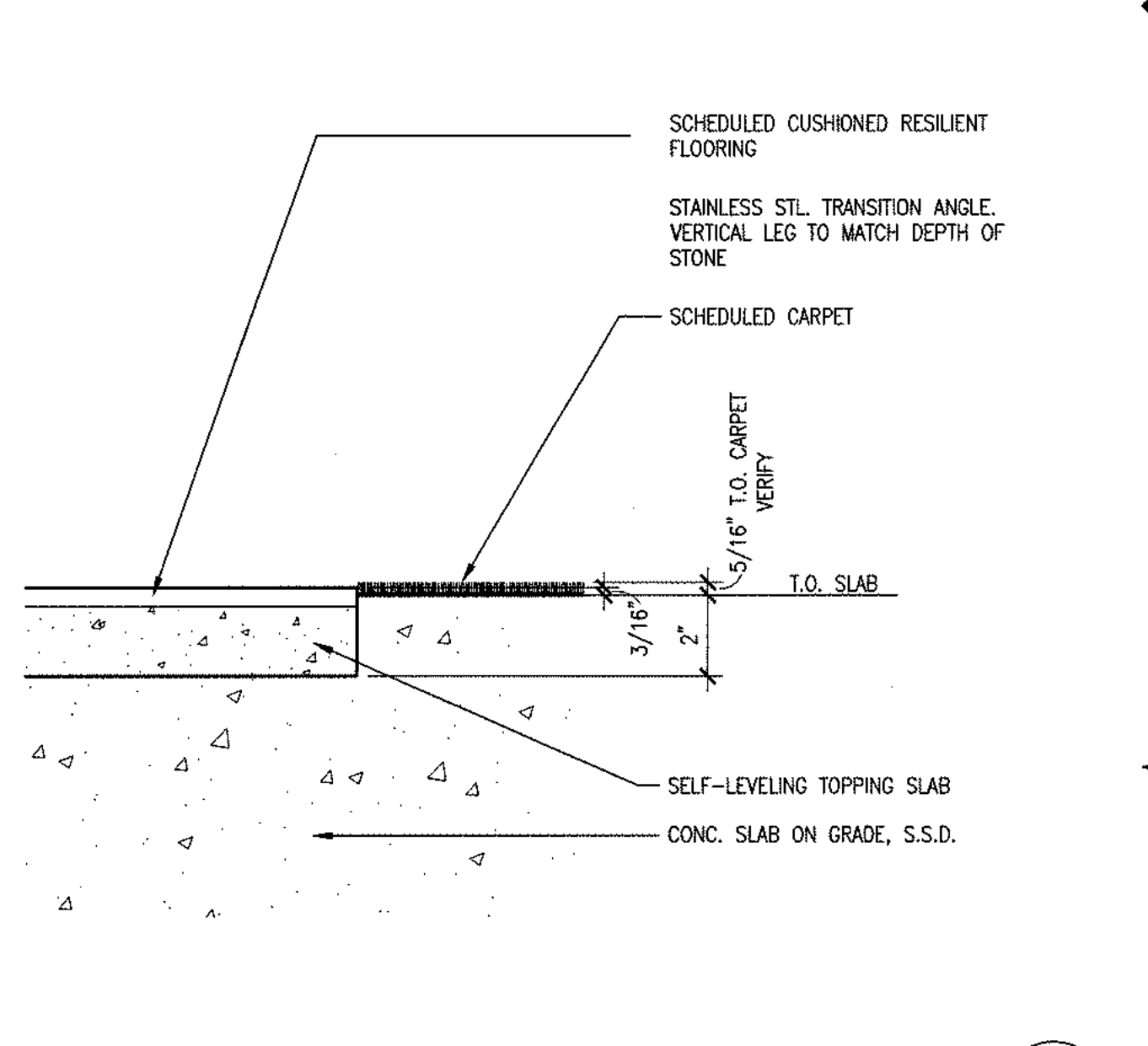
SECTION @ WHEEL BEARING PLATE (8)
 6" = 1'-0"



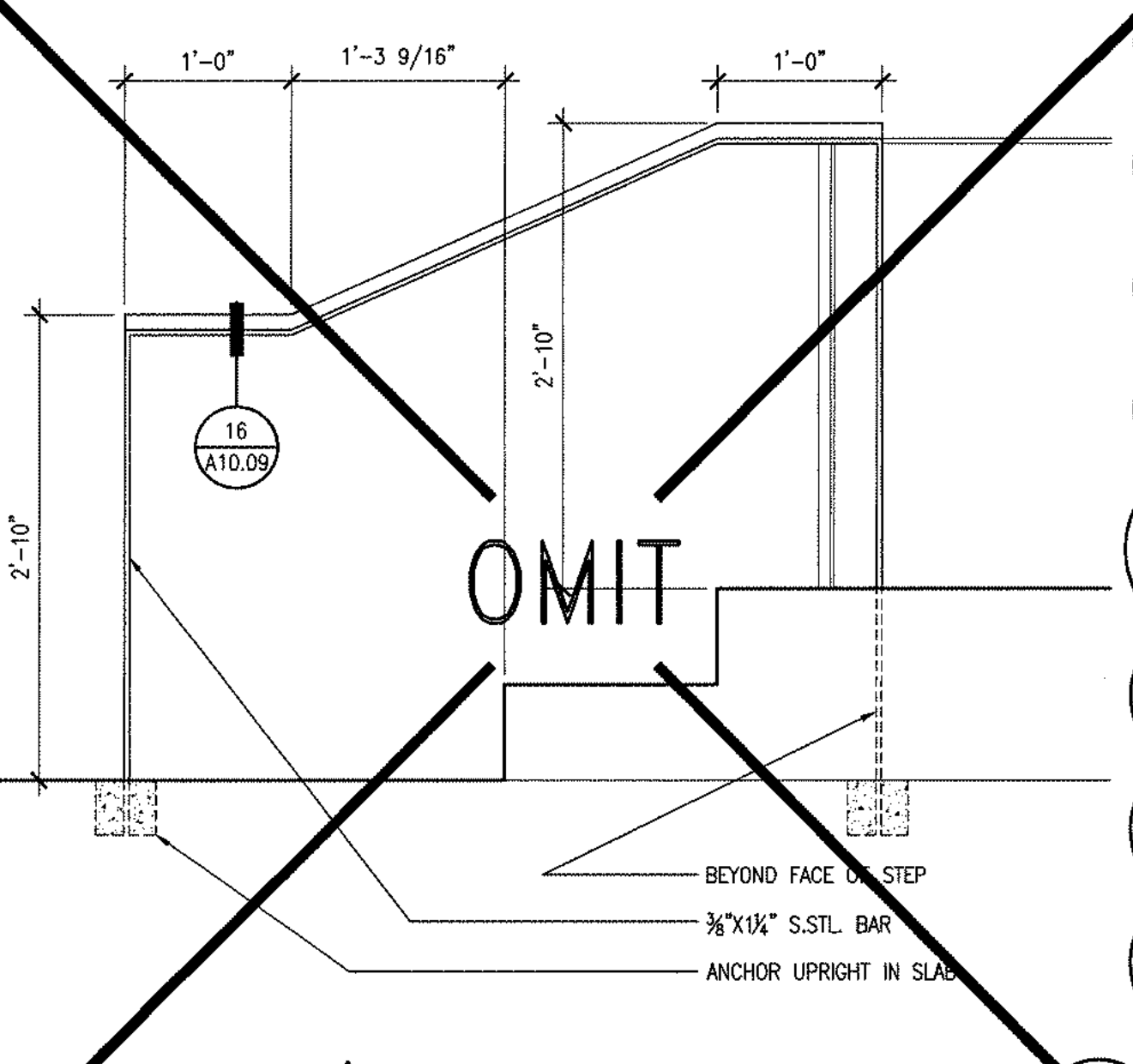
CONTRASTING STRIPE @ WOOD TREAD (4)
 6" = 1'-0"



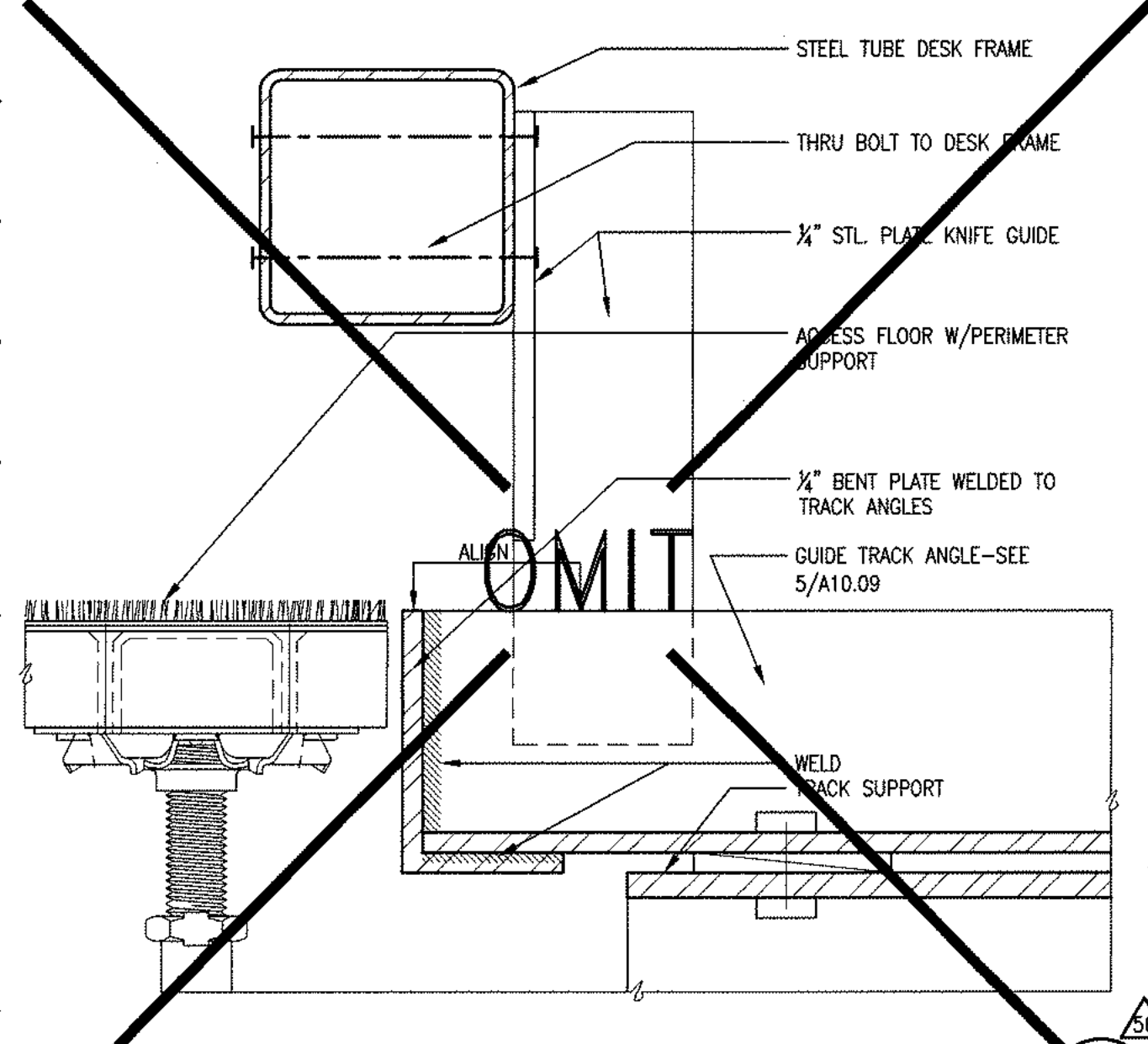
HIGH DISPLAY (19)
 1 1/2" = 1'-0"



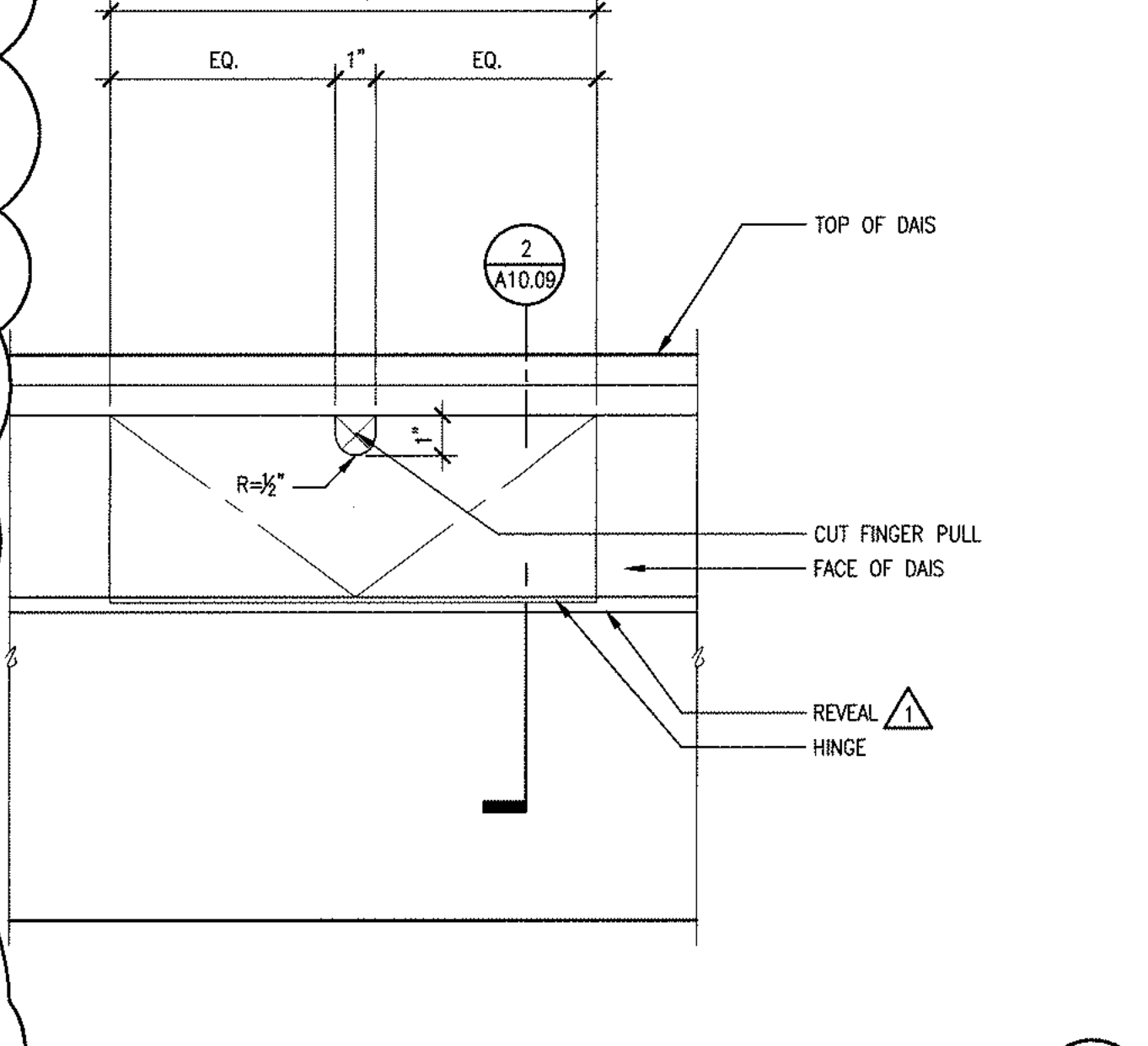
RESILIENT FLOORING TO CARPET TRANSITION (15)
 3" = 1'-0"



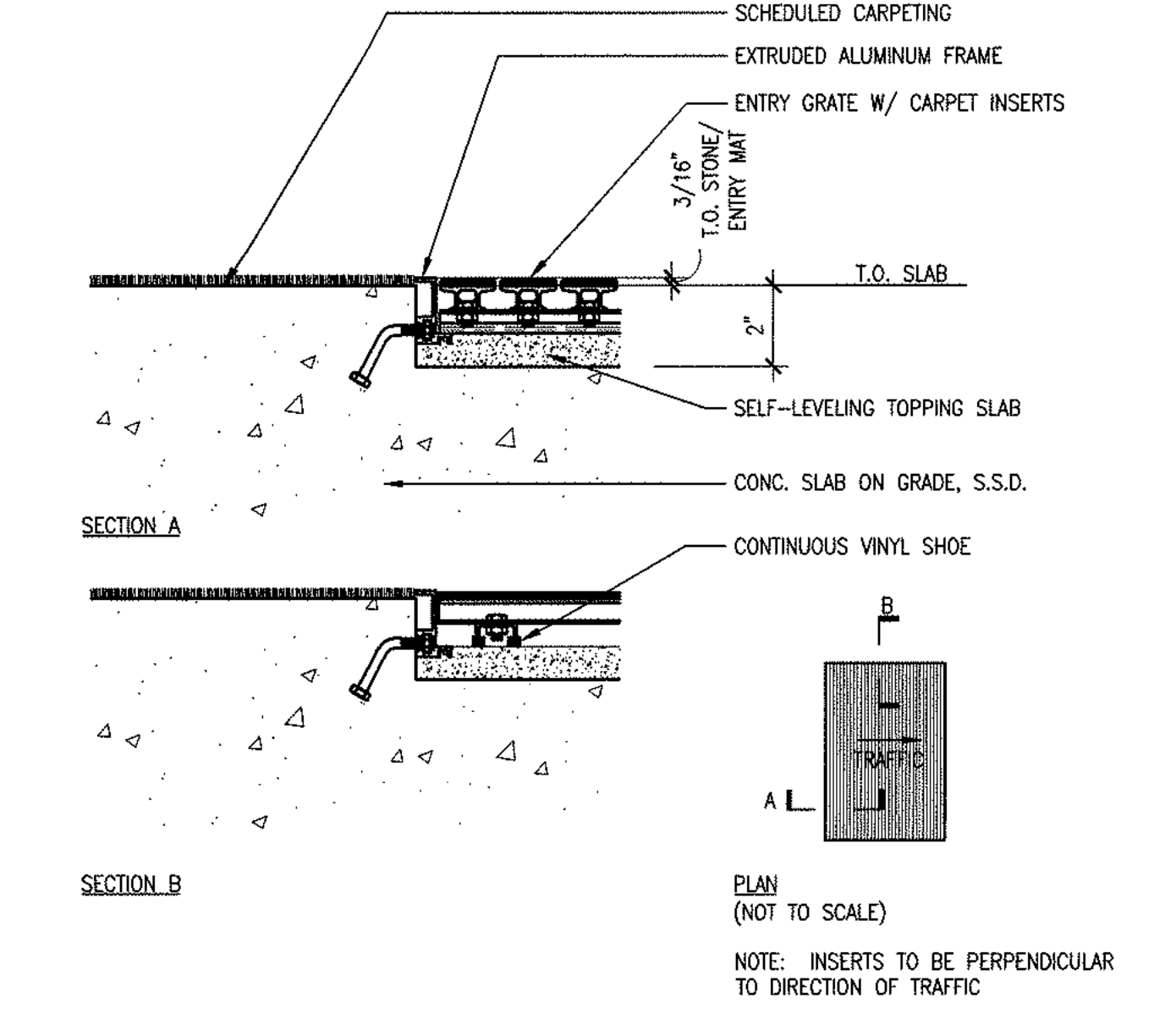
DAIS HANDRAIL NORTH ELEVATION (11)
 1" = 1'-0"



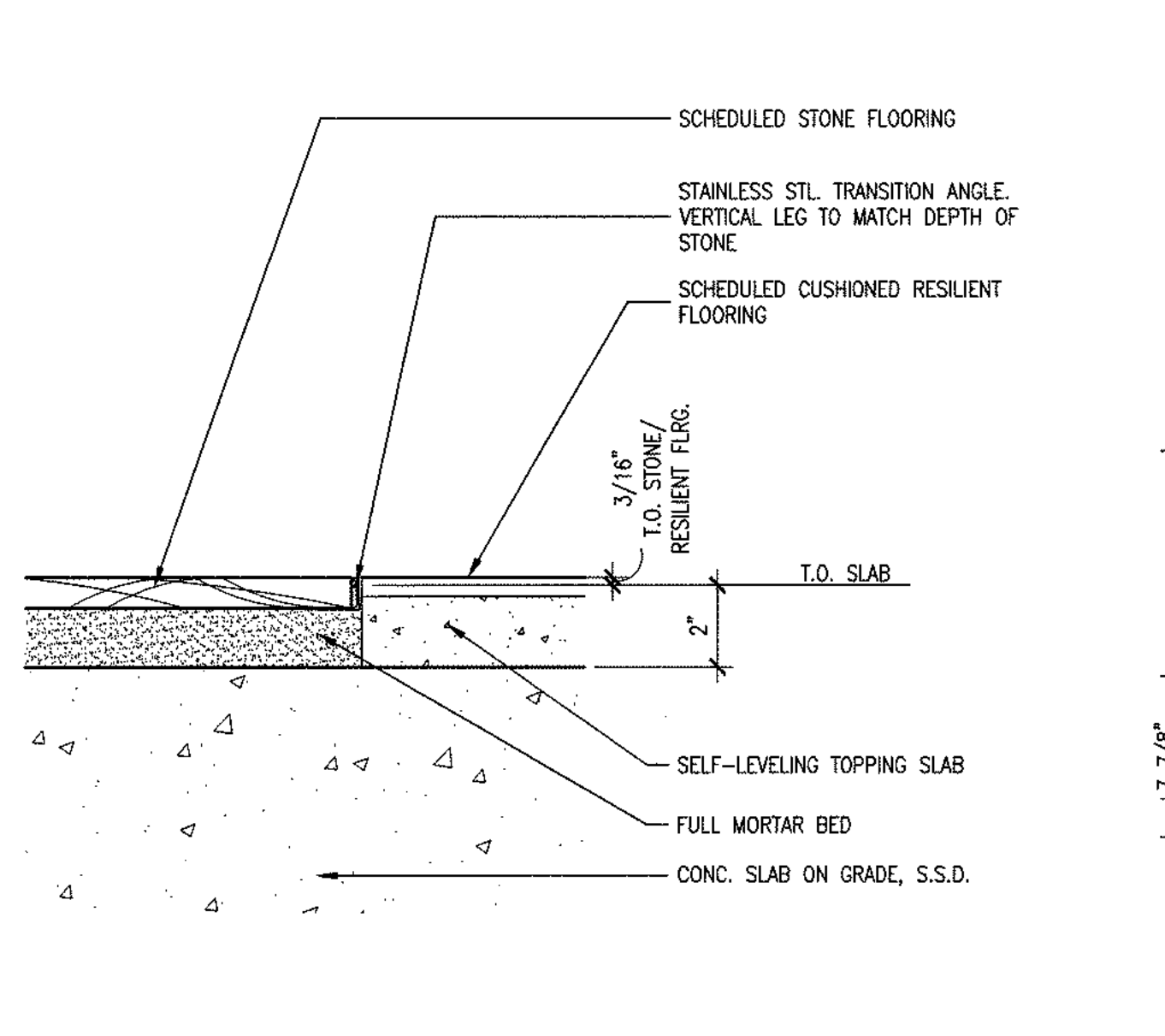
SIDE ELEVATION @ KNIFE GUIDE & TRACK END (7)
 6" = 1'-0"



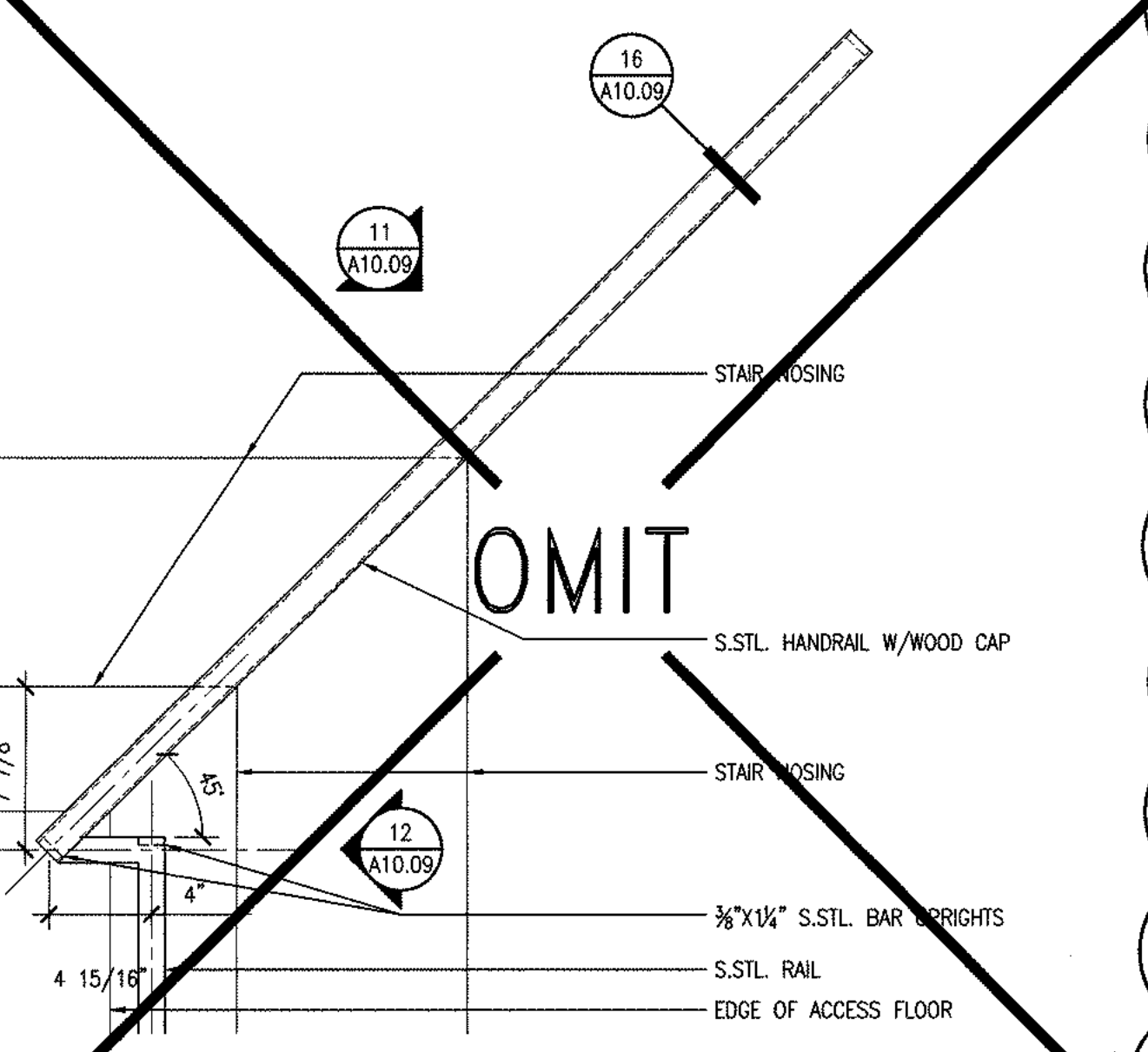
ELEV. @ CABLE PASS-THRU (3)
 3" = 1'-0"



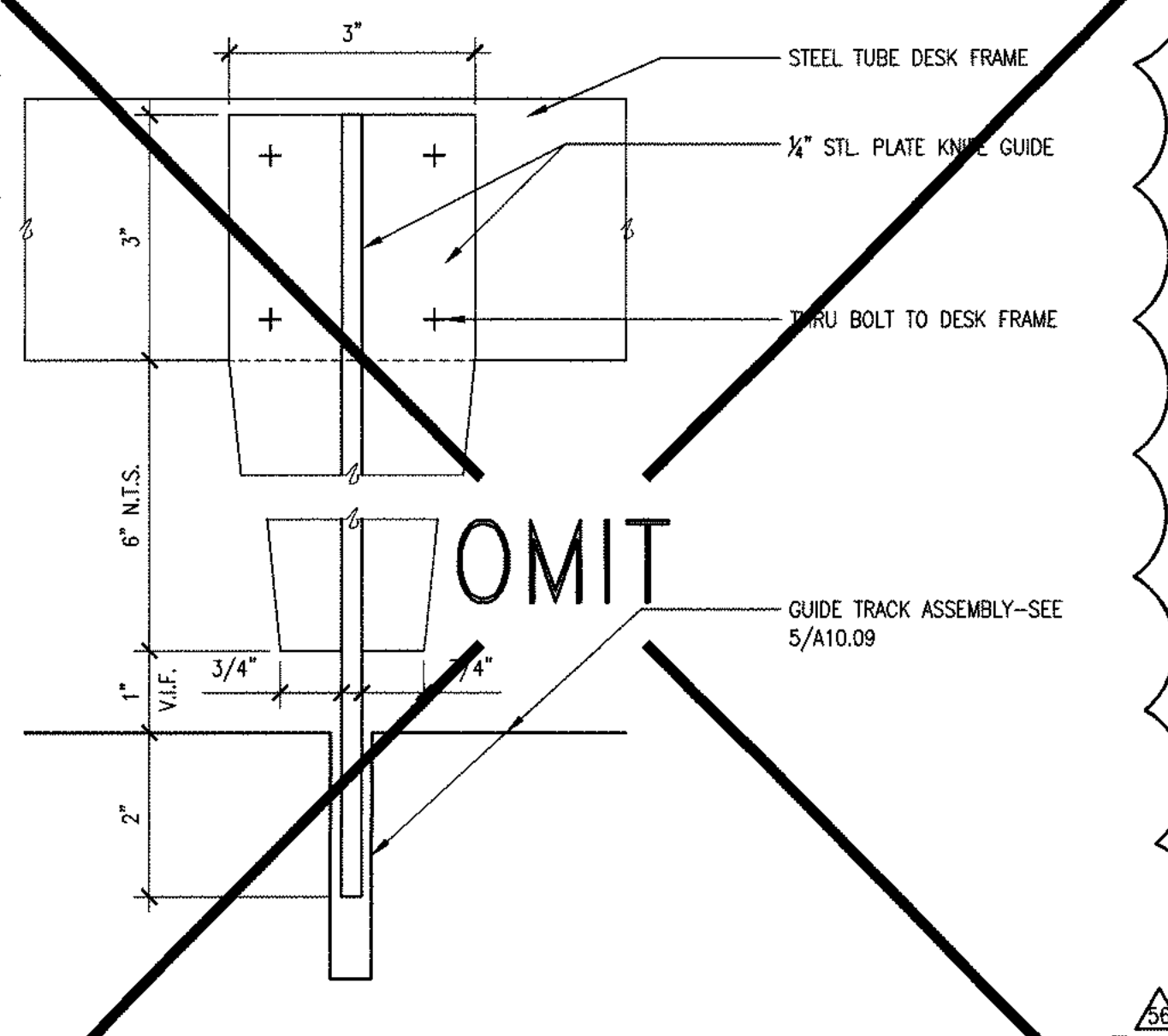
RECESSED ENTRY MAT TO CARPET TRANSITION (18)
 3" = 1'-0"



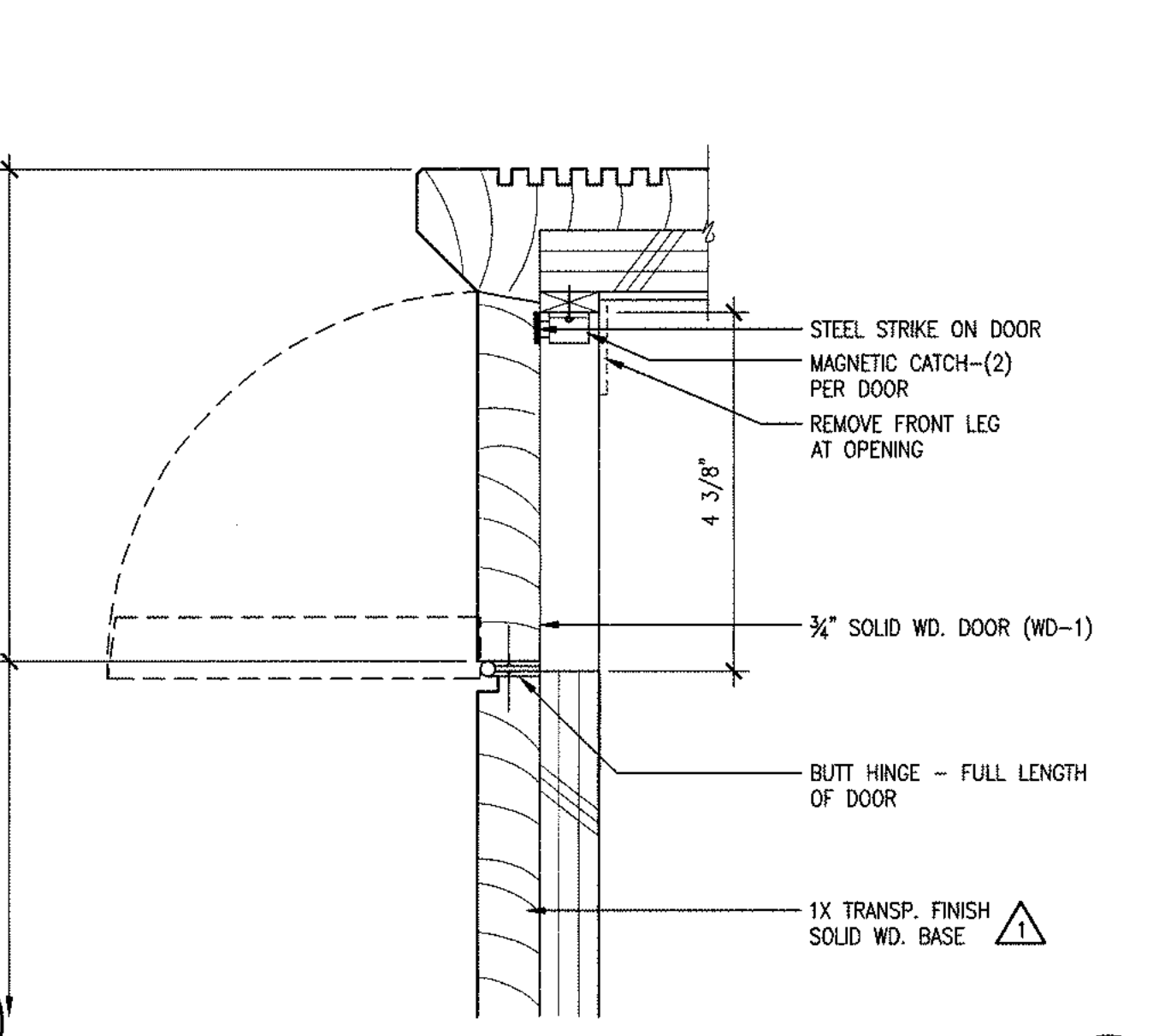
STONE TO RESILIENT FLOORING TRANSITION (14)
 3" = 1'-0"



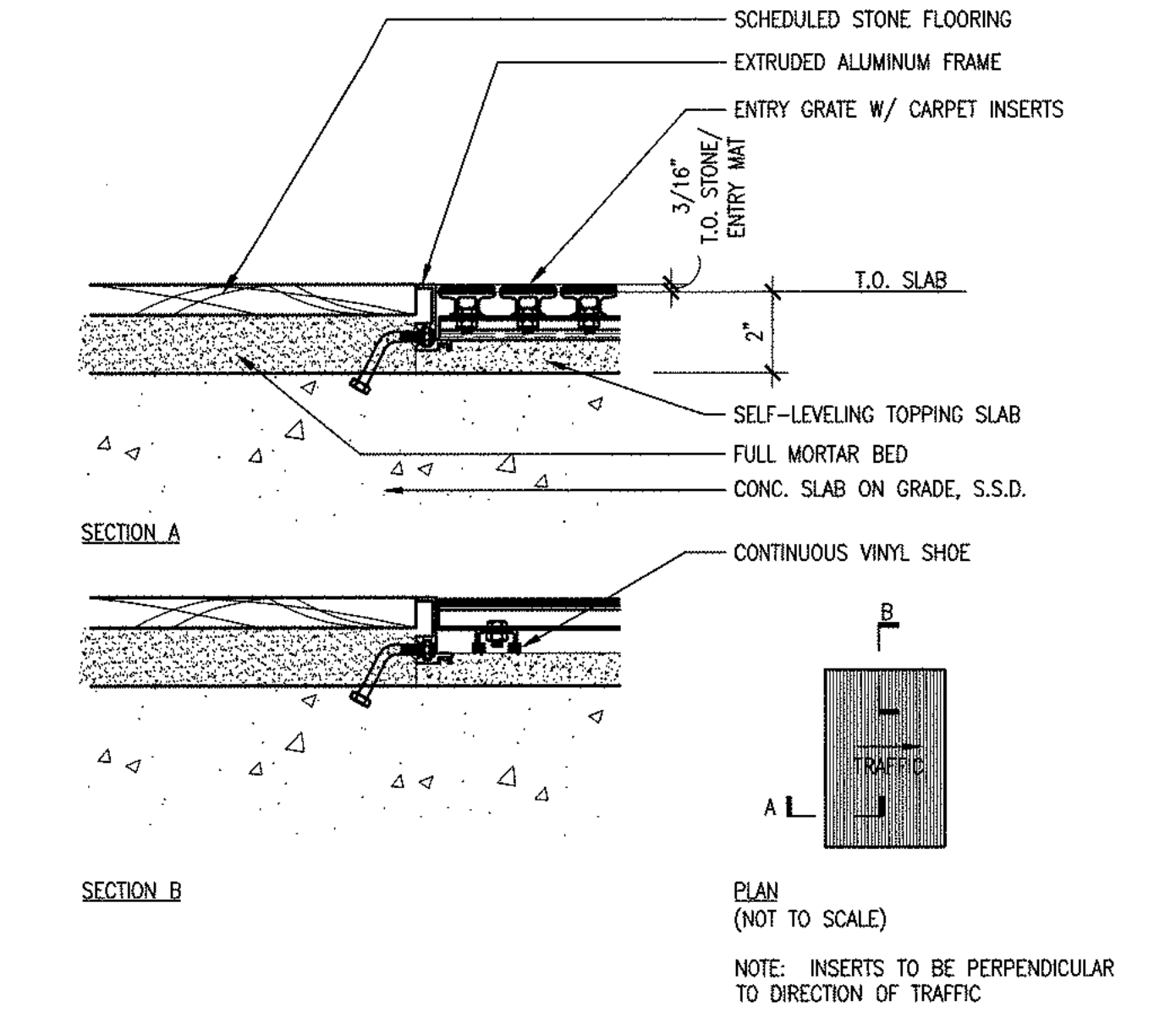
HANDRAIL PLAN (10)
 1 1/2" = 1'-0"



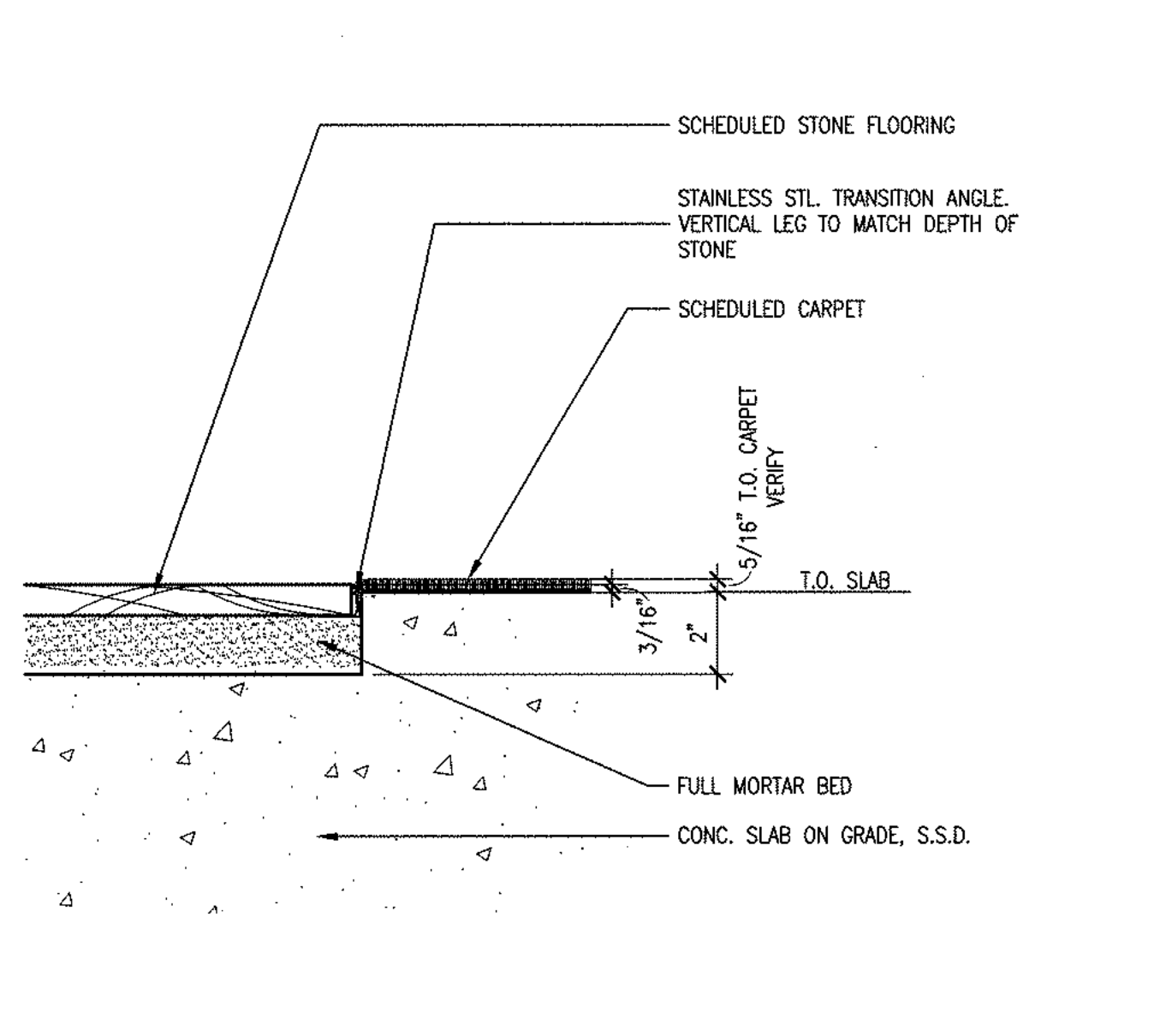
ELEVATION @ KNIFE GUIDE (6)
 6" = 1'-0"



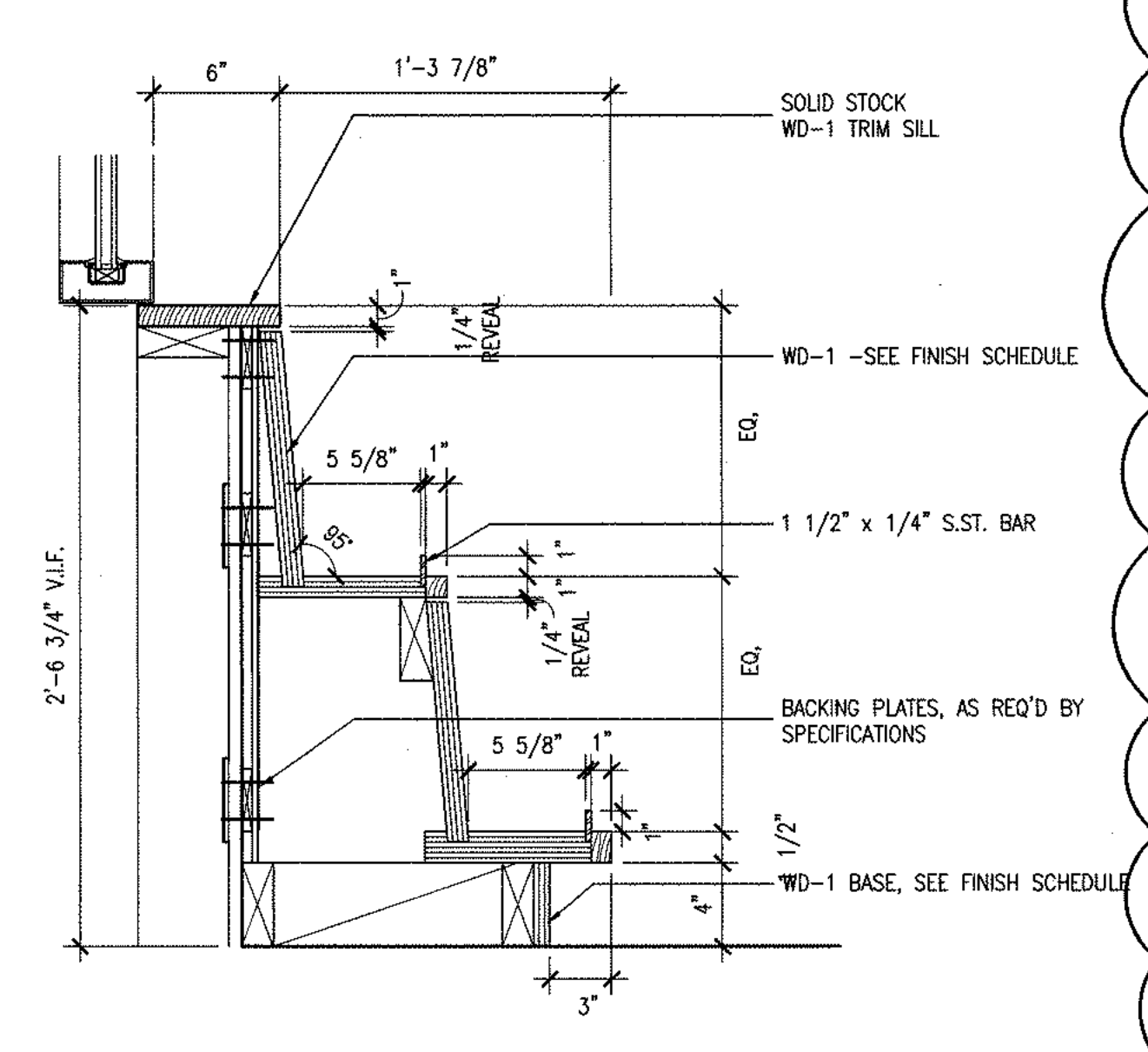
SECTION @ CABLE PASS-THRU (2)
 6" = 1'-0"



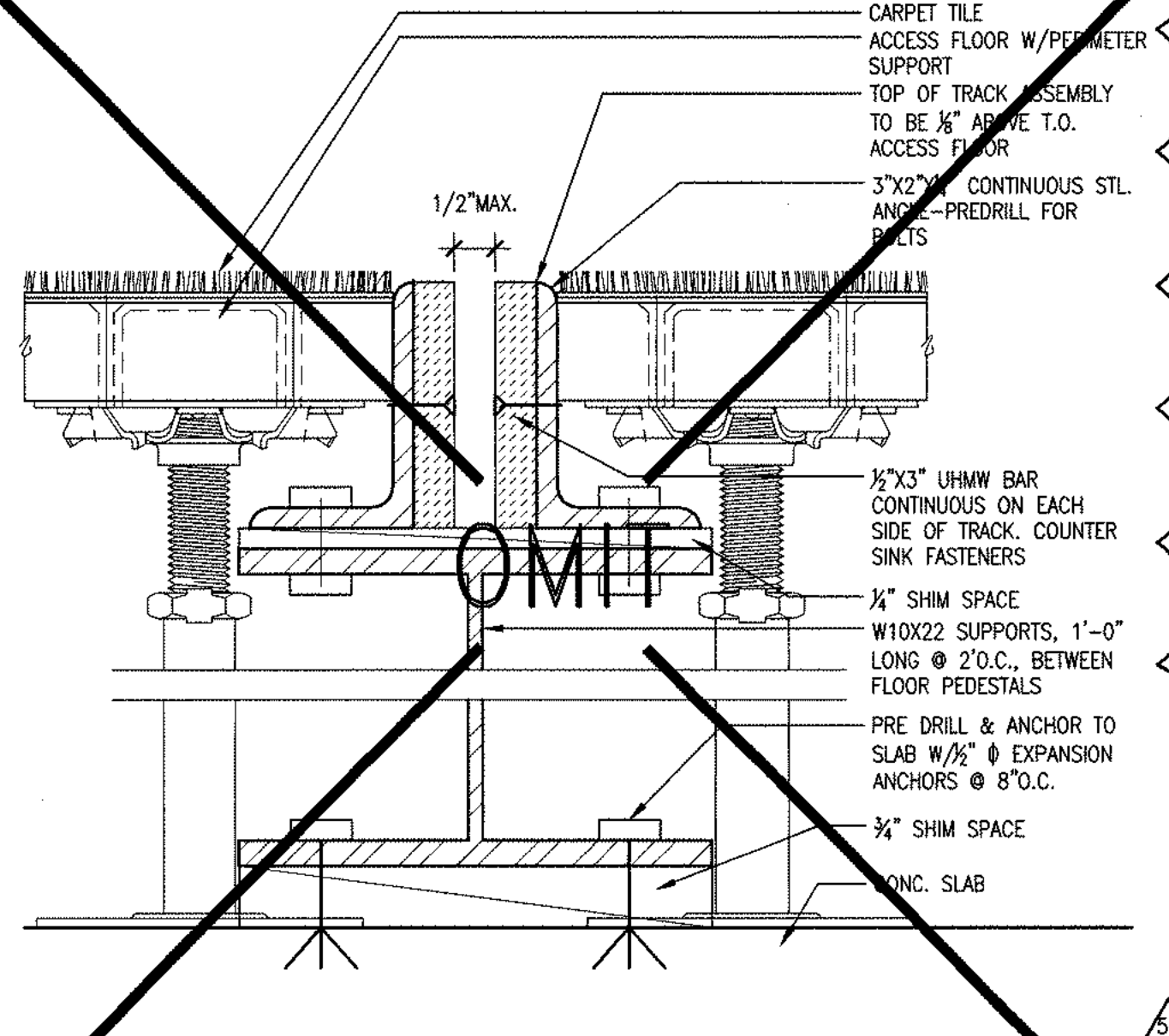
RECESSED ENTRY MAT TO STONE TRANSITION (17)
 3" = 1'-0"



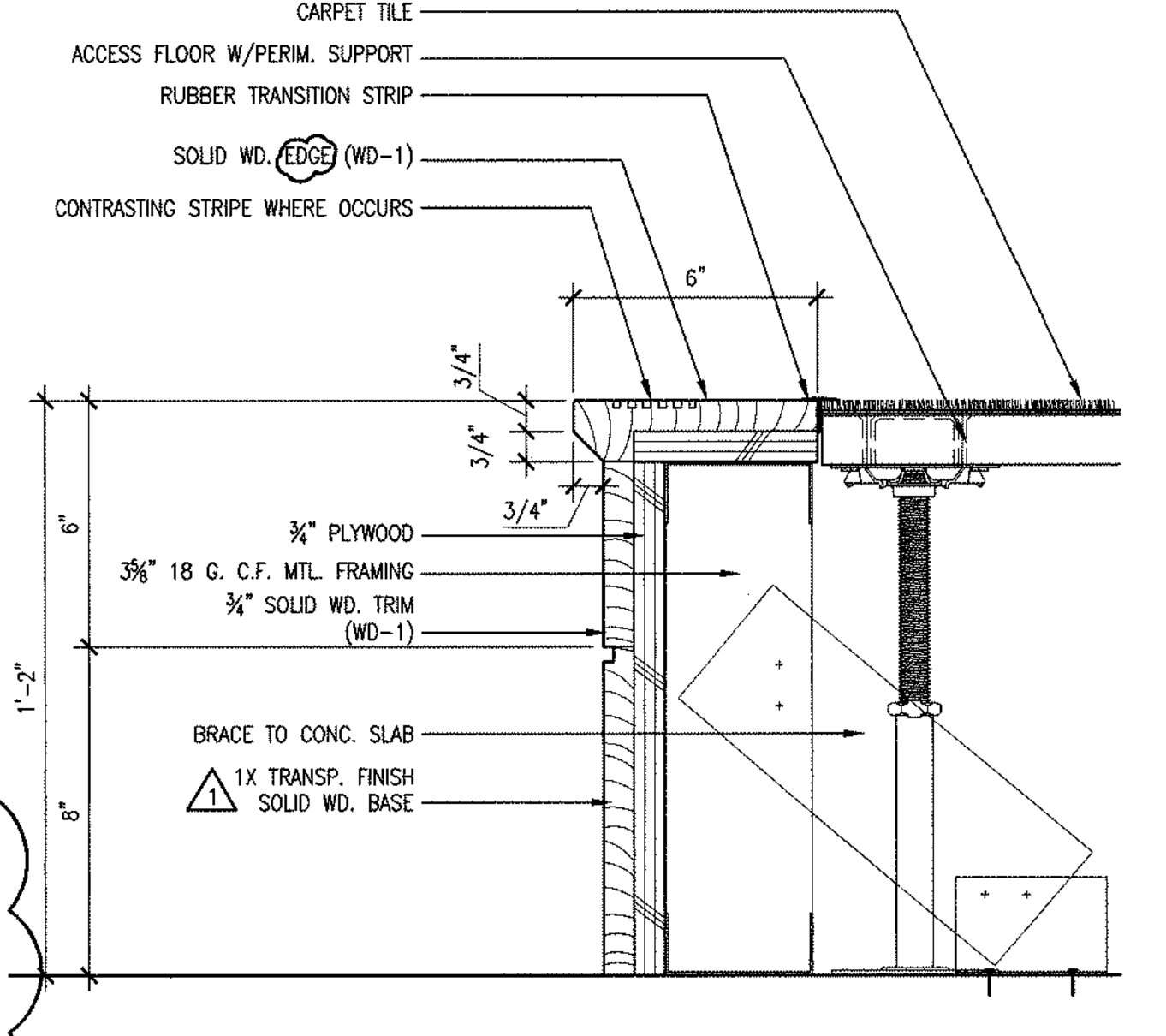
STONE TO CARPET TRANSITION (13)
 3" = 1'-0"



LOW DISPLAY (9)
 1 1/2" = 1'-0"



GUIDE TRACK ASSEMBLY (5)
 6" = 1'-0"



SECTION @ DAIS EDGE (1)
 3" = 1'-0"

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 10300 Torre Avenue
 Cupertino, CA 95014
 408.777.3354 T
 408.777.3333 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916.435.2400 T
 916.435.2410 F

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 Associates
 2020 17th Street
 San Francisco, CA 94103
 415.865.1811 T
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 Engineers, Inc.
 160 Pine Street
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 415.837.0700 T
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 405 Howard Street
 Suite 500
 San Francisco, CA 94105
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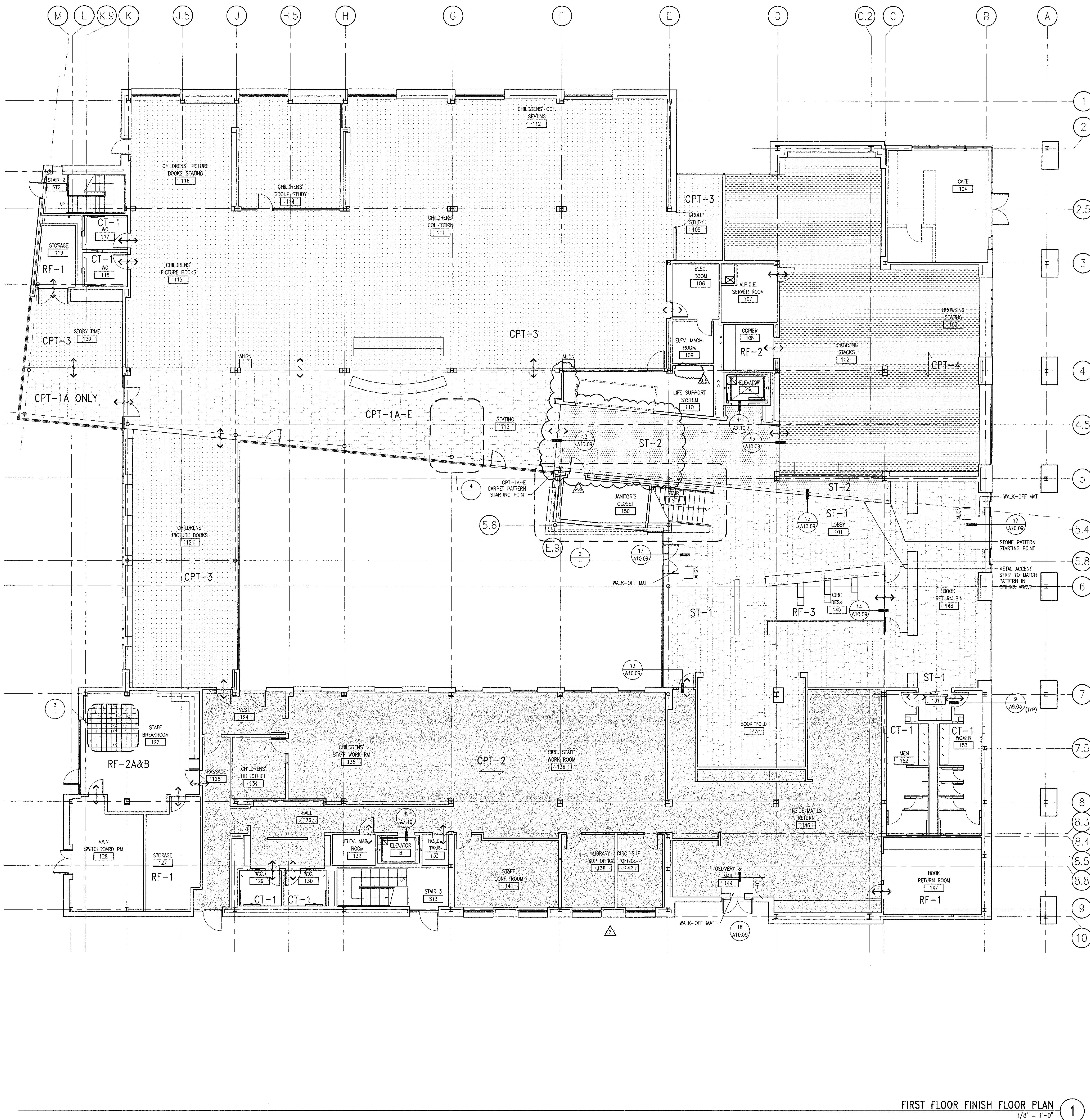
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 2003.11.03 CCD 13 DELTA 15

**11-29-04 Updated
 Contract Documents**

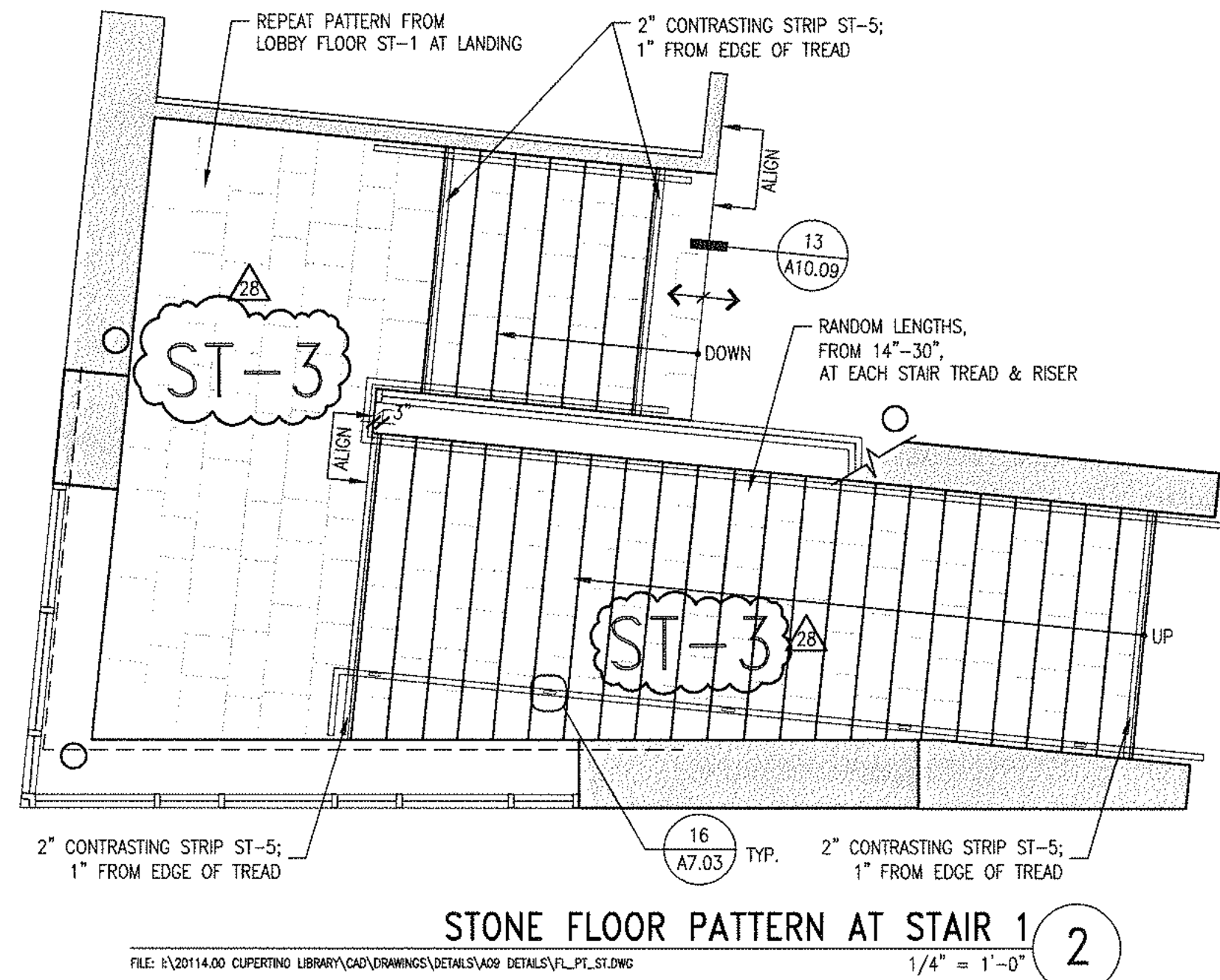
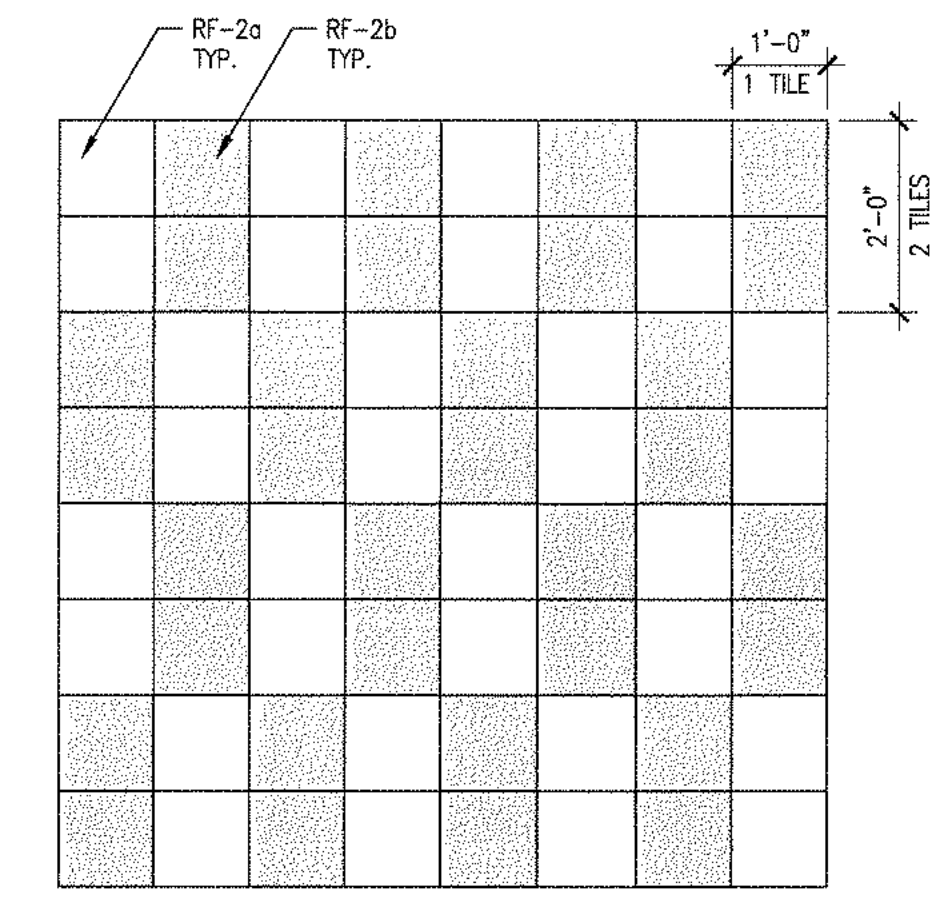
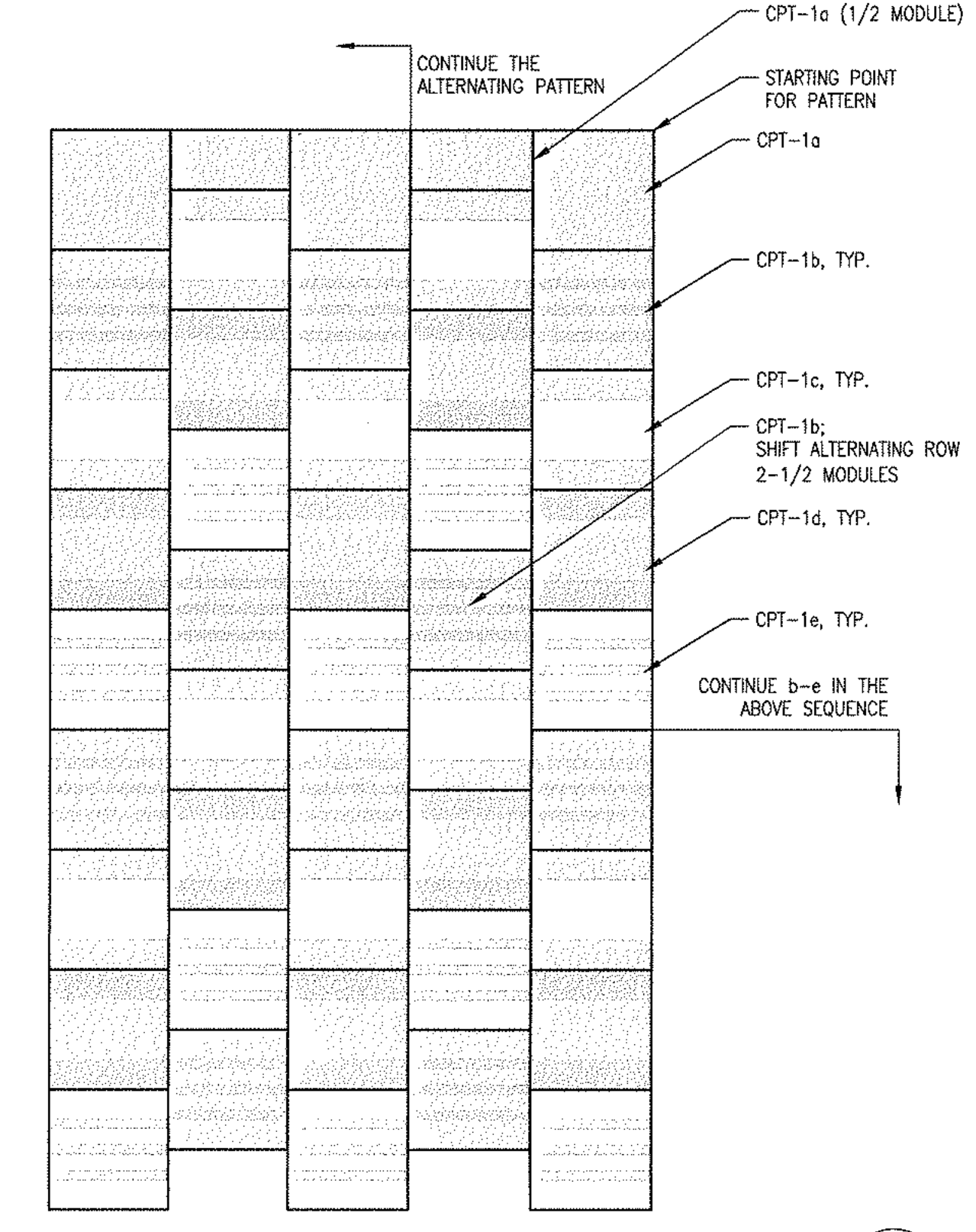
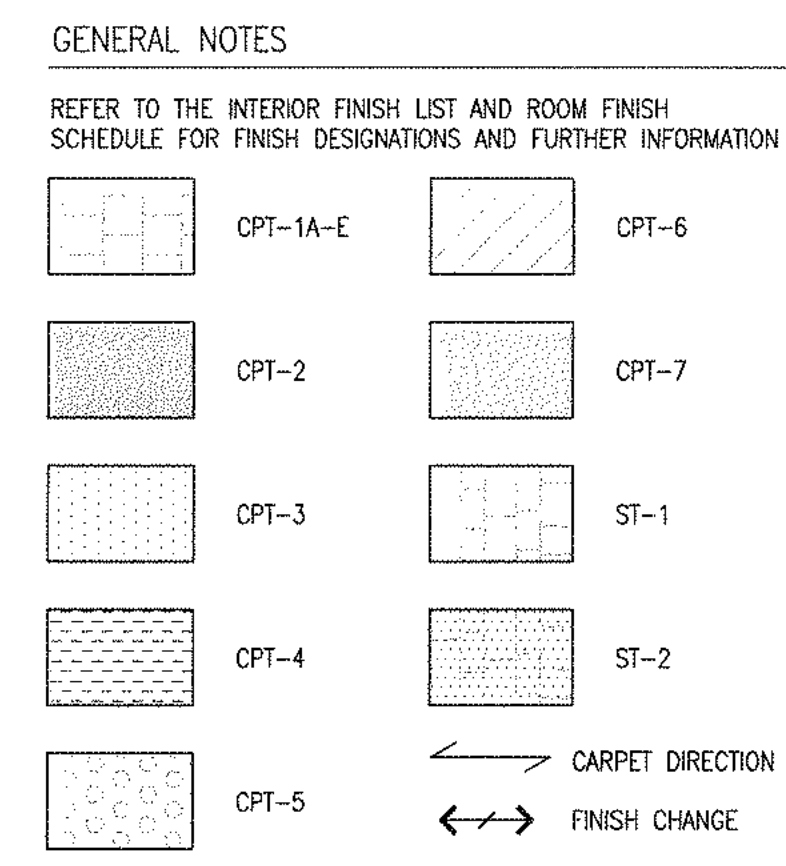
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 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

INTERIOR
 DETAILS
 2003.04.18
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- GENERAL NOTES**
- SEE DOOR SCHEDULE FOR FLOOR FINISH MATERIAL TRANSITIONS UNDER DOORS
 - SEE ELEC / TELECOM DRAWINGS FOR FLOOR OUTLETS
 - SEE PLUMBING DRAWINGS FOR FLOOR CLEANOUT LOCATIONS AND COORDINATE FLOOR FINISH MATERIALS OVER COVER PLATES



FIRST FLOOR FINISH FLOOR PLAN
1/8" = 1'-0"

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Associates
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San Francisco, CA 94103
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Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
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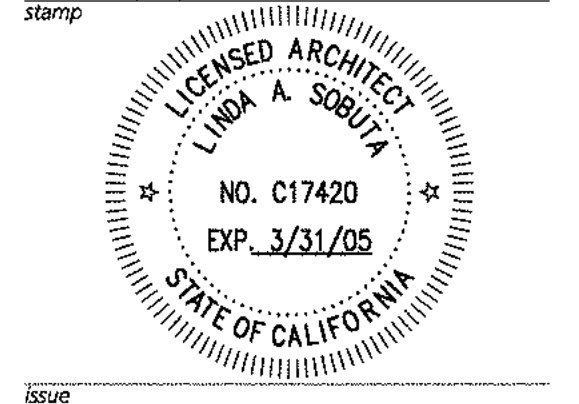
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415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
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415 495 4660 F

revisions

2003.11.24	CCD NO. 10.1
2004.01.21	CCD NO. 26
2004.01.21	CCD NO. 7.6

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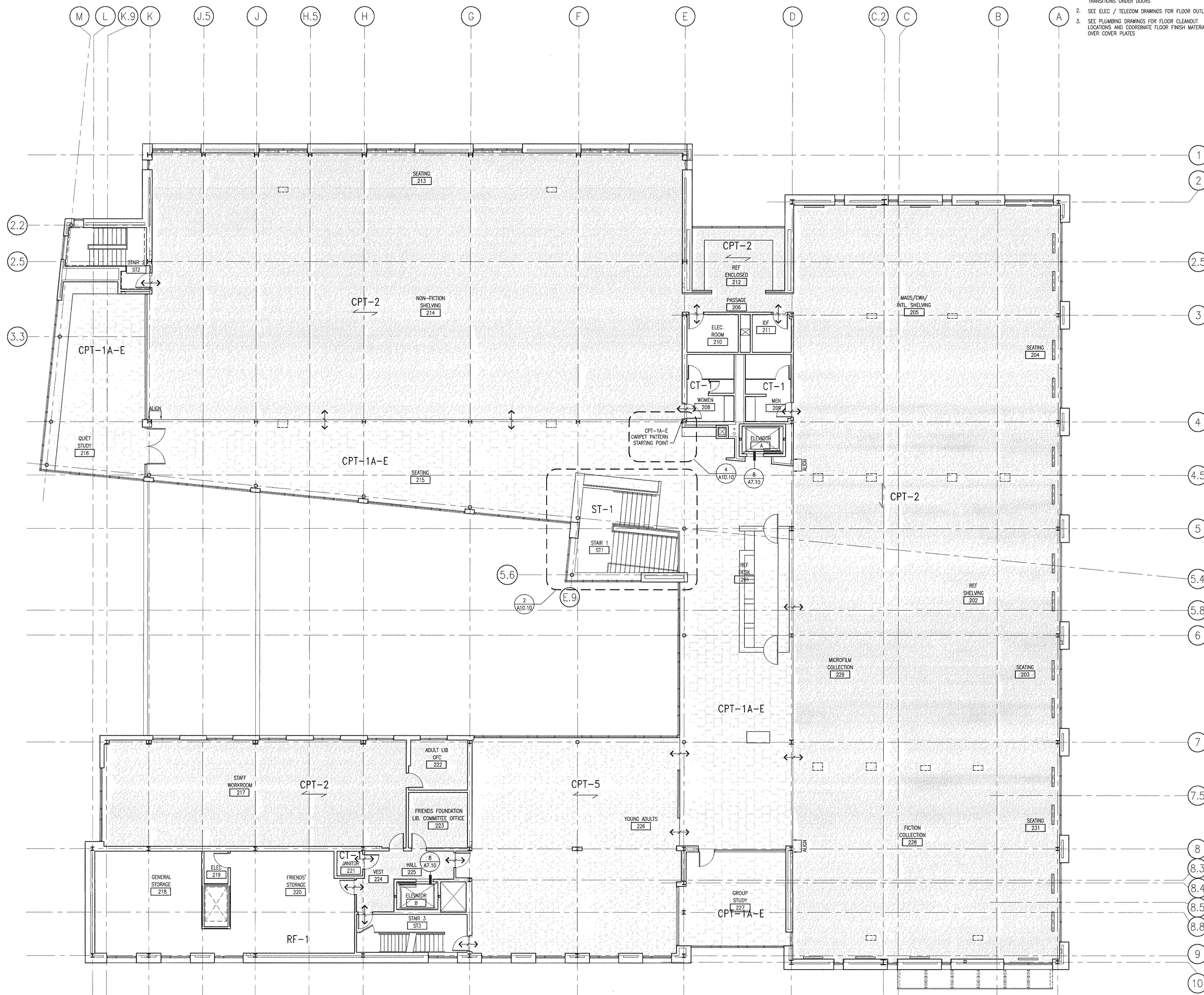
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LIBRARY FIRST FLOOR FINISH PLAN

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drawn by: CN project number: 20114.00
sheet number:

A10.10

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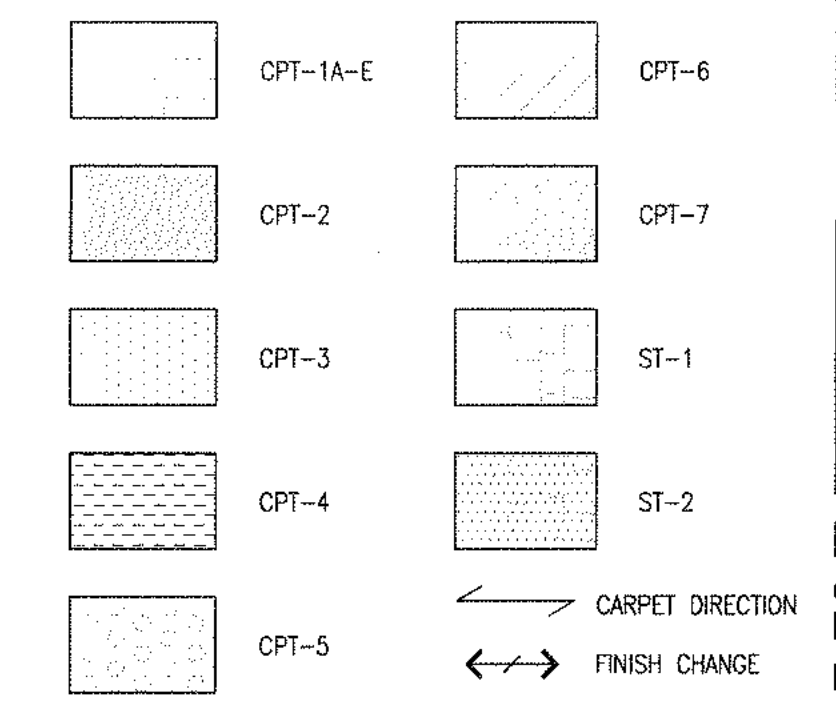


GENERAL NOTES

1. SEE DOOR SCHEDULE FOR FLOOR FINISH MATERIAL TRANSITIONS UNDER DOORS
2. SEE ELEC / TELECOM DRAWINGS FOR FLOOR OUTLETS
3. SEE PLUMBING DRAWINGS FOR FLOOR CLEANOUT LOCATIONS AND COORDINATE FLOOR FINISH MATERIALS OVER COVER PLATES

GENERAL NOTES

REFER TO THE INTERIOR FINISH LIST AND ROOM FINISH SCHEDULE FOR FINISH DESIGNATIONS AND FURTHER INFORMATION



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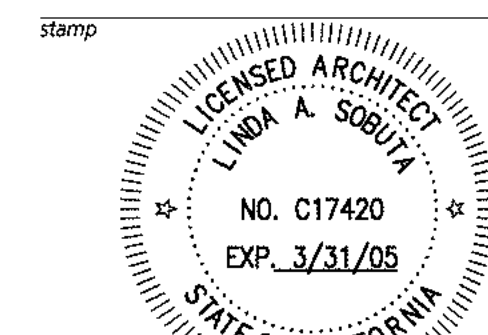
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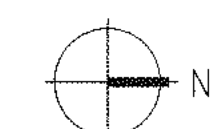
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LIBRARY
SECOND FLOOR
FINISH PLAN

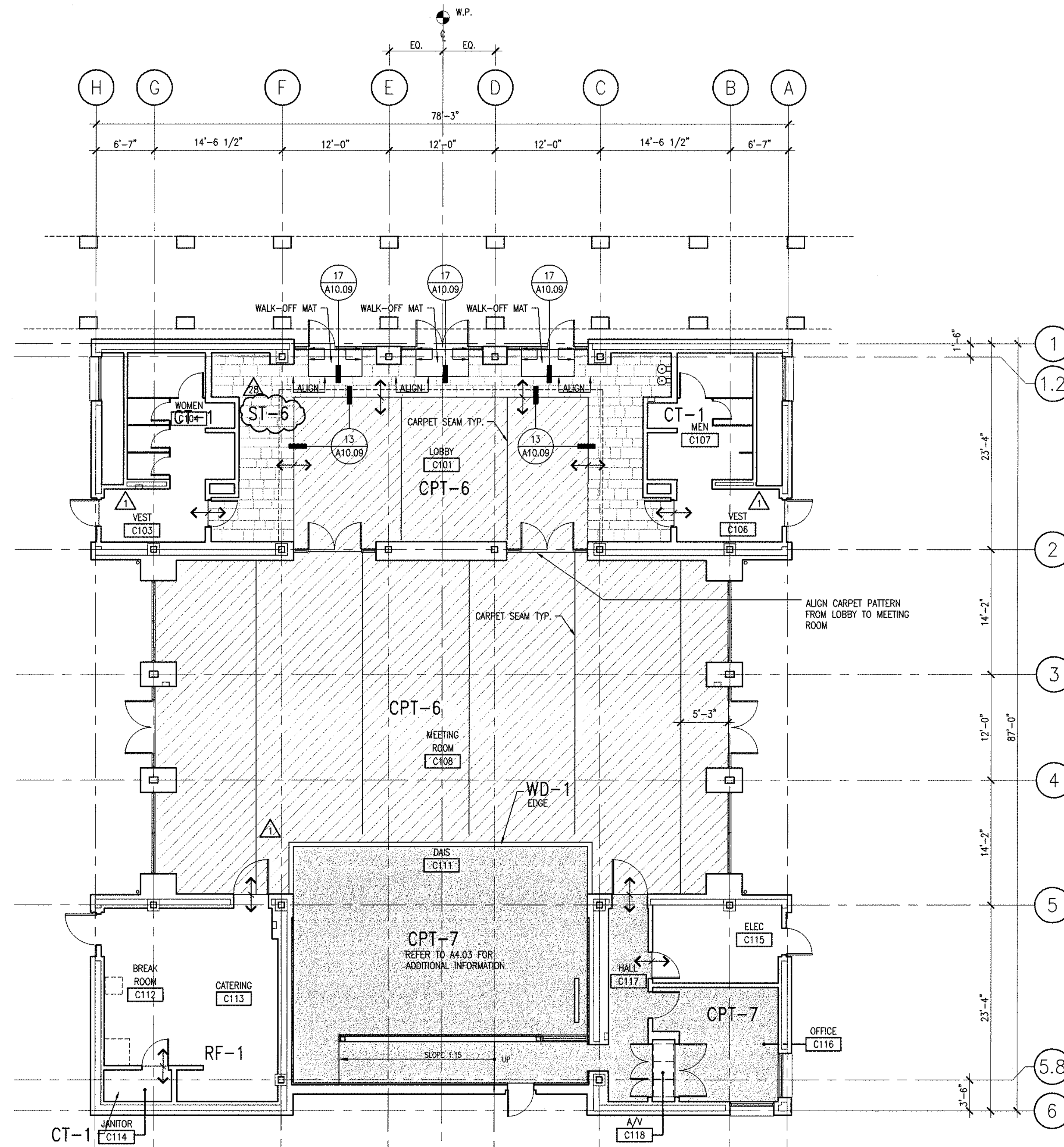
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Drawn by: GN
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Sheet number: 20114.00

A10.11

SECOND FLOOR FINISH FLOOR PLAN 1
1/8" = 1'-0"



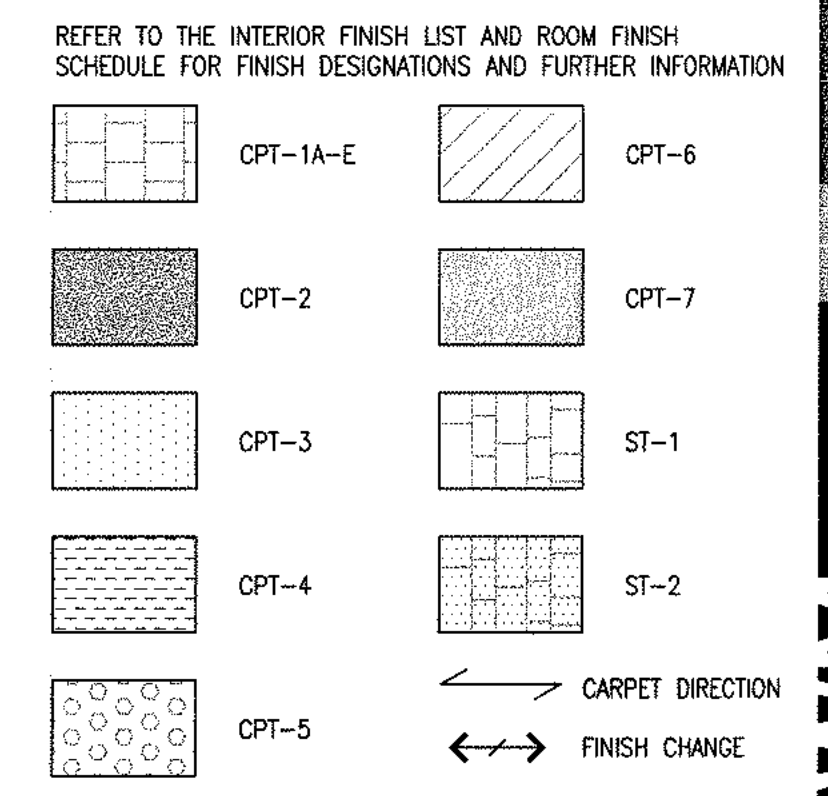
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GENERAL NOTES

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- SEE PLUMBING DRAWINGS FOR FLOOR CLEANOUT LOCATIONS AND COORDINATE FLOOR FINISH MATERIALS OVER COVER PLATES

GENERAL NOTES



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revisions

	2003.05.07	ADDENDUM NO. 1
	2004.01.21	CCD NO. 26

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stamp

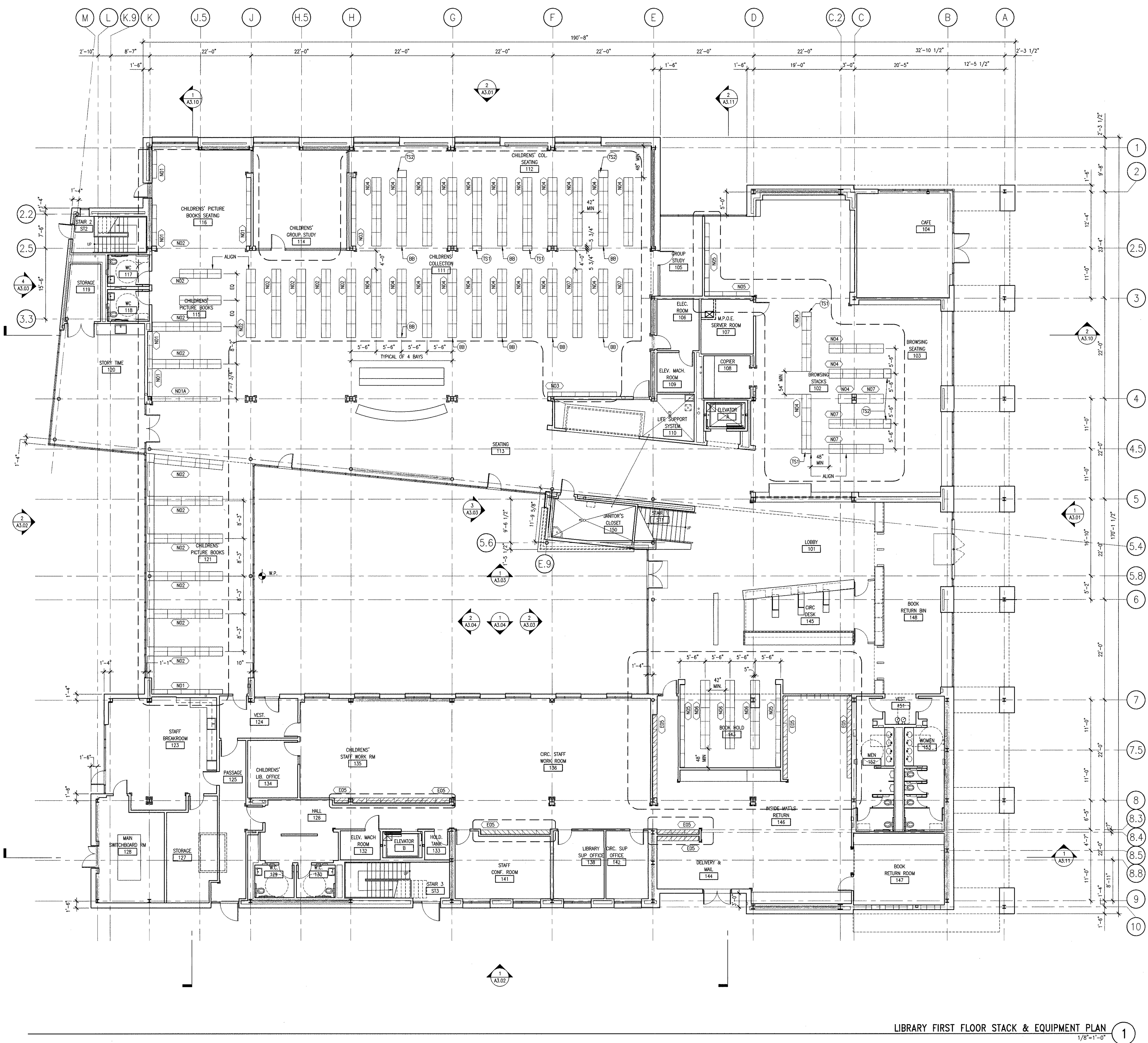
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SHEET SIZE

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- NOTE**
- PHASE 2 CONTRACTOR TO INSTALL BACKING PLATES IN WALLS FOR SINGLE FACED BOOKSTACK ANCHORAGE, AS PART OF PHASE 2 WORK.
 - BASE BID: ALL BOOKSTACKS ARE CONTRACTOR FURNISHED CONTRACTOR INSTALLED. THOSE BOOKSTACKS NOTED OFCI (HATCHED) ARE OFCI IN BASE BID.
 - DEDUCTIVE ALTERNATE NO. 1: CLEAN, PAINT AND INSTALL OWNER FURNISHED BOOKSTACKS (SHOWN HATCHED ON DRAWINGS). PAINT TO MATCH NEW BOOKSTACKS.
 - REFER TO SPECIFICATION SECTION 11054 FOR FLOOR AND WALL ANCHORAGE REQUIREMENTS.
 - BOOKSTACK SIZES ARE NOMINAL. UNLESS OTHERWISE NOTED, ALL BOOKSTACK UNITS WITH A STACK ROW ARE OF THE SAME SIZE AND TYPE.
 - COORDINATE THE INSTALLATION OF THE BOOKSTACKS AND LIGHTING. REFER TO PHASE 2 ELEC. LIGHTING DRAWING (A1.01) FOR STACK MOUNTED LIGHT FIXTURES.
 - COORDINATE THE INSTALLATION OF THE BOOKSTACKS WITH FLOOR MOUNTED POWER AND DATA OUTLETS. REFER TO PHASE 2 FLOOR PLAN A2.10, AND POWER/ DATA PLAN, A12.21.
 - BOTTOM OF CENTER RAIL OF BOOKSTACKS MUST BE 6" ABOVE FINISH FLOOR. MIN. TYPICAL OF ALL BOOKSTACKS.

- BOOKSTACK LEGEND**
- NEW SINGLE FACE BOOKSTACK, OFCI
 - OWNER FURNISHED SINGLE FACE BOOKSTACK, OFCI-SEE GENERAL NOTES
 - NEW DOUBLE FACE BOOKSTACK, OFCI
 - OWNER FURNISHED DOUBLE FACE BOOKSTACK, OFCI-SEE GENERAL NOTES
 - BOOKSTACK CODE: SEE SCHEDULE BELOW
 - N04 60" TERMINAL SHELF: SEE 4/A12.13; PROVIDE (2) 2" HOLE W/ GROMMET AT BASE SHELF (1 HOLE EA. SIDE)
 - TS1 TS2 90" TERMINAL SHELF: SEE 15/A12.13; PROVIDE (2) 2" HOLE W/ GROMMET AT BASE SHELF (1 HOLE EA. SIDE)
 - BB BULLETIN BOARD END PANEL; SEE 17/A12.13
 - LIMIT OF WORK

- BOOKSTACK SCHEDULE**
- OWNER FURNISHED BOOKSTACKS:**
- E05 90" X 36" W X 12"D SINGLE FACE BOOKSTACK W/ 6 ADJUSTABLE SHELVES AND 1 BASE SHELF. PROVIDE NEW PAINTED METAL END PANELS TO MATCH STACKS AT EXPOSED FACES.
 - E06 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SHELVES AND 2 BASE SHELVES. PROVIDE NEW PAINTED METAL END PANELS TO MATCH STACKS AT EXPOSED FACES.
- NEW BOOKSTACKS: SEE A12.12 FOR END PANEL ELEVATIONS AND CANOPY PLANS**
- N01 45" X 36" W X 12"D SINGLE FACE BOOKSTACK W/ 2 ADJUSTABLE SLOTTED SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP.
 - N01A 45" X 36" W X 12"D SINGLE FACE BOOKSTACK W/ 2 ADJUSTABLE SLOTTED SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP. PROVIDE SOLID BACK PANEL TO MATCH CANOPY TOP.
 - N02 45" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/ 4 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP.
 - N03 60" X 36" W X 12"D SINGLE FACE BOOKSTACK W/ 4 ADJUSTABLE SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS AND CANOPY TOP.
 - N04 60" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/ 8 ADJUSTABLE SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS AND CANOPY TOP. REFER TO (BB) SYMBOL FOR LOCATION OF BULLETIN BOARD END PANELS.
 - N05 90" X 36" W X 12"D SINGLE FACE BOOKSTACK W/ 6 ADJUSTABLE SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS AT EXPOSED FACES.
 - N06 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS.
 - N06E 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 1" HOLE WITH GROMMET IN VERTICAL STACK POST BELOW BASE SHELF FOR STACK LIGHTS. S.E.D. AND COORDINATE W/ PHASE 2 CONTRACTOR. PROVIDE END PANELS.
 - N07 60" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/ 8 ADJUSTABLE DISPLAY SHELVES AND 2 FLAT BASE SHELVES. PROVIDE END PANELS AND CANOPY TOP.
 - N08 60" X 36" W X 12" TO SINGLE FACE BOOKSTACK W/ 4 ADJUSTABLE DISPLAY SHELVES AND 1 FLAT BASE SHELF. PROVIDE END PANELS AND CANOPY TOP.
 - N09 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/ 12 ADJUSTABLE DISPLAY SHELVES AND 2 FLAT BASE SHELVES. PROVIDE END PANELS.
 - N10 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/ 6 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP. SEE DETAIL 13/A12.13.
 - N10E 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/ 6 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP. SEE DETAIL 14/A12.13. PROVIDE 1" HOLE WITH GROMMET IN VERTICAL STACK POST BELOW BASE SHELF FOR STACK LIGHTS. S.E.D. AND COORDINATE W/ PHASE 2 CONTRACTOR.
 - N11 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. PROVIDE 5 DIVIDERS PER SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS.
 - N11E 90" X 36" W X 24"D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. PROVIDE 5 DIVIDERS PER SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 1" HOLE WITH GROMMET IN VERTICAL STACK POST BELOW BASE SHELF FOR STACK LIGHTS. S.E.D. AND COORDINATE W/ PHASE 2 CONTRACTOR. PROVIDE END PANELS.

11-29-04 Updated Contract Documents

REGISTERED ARCHITECT
 LINDA A. SAUTER
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

BOOKSTACKS BID SET

LIBRARY FIRST FLOOR STACK PLAN

SCALE: 1/8" = 1'-0"
 drawn by: LO project number: 2003.12.12
 sheet number: 20114.00

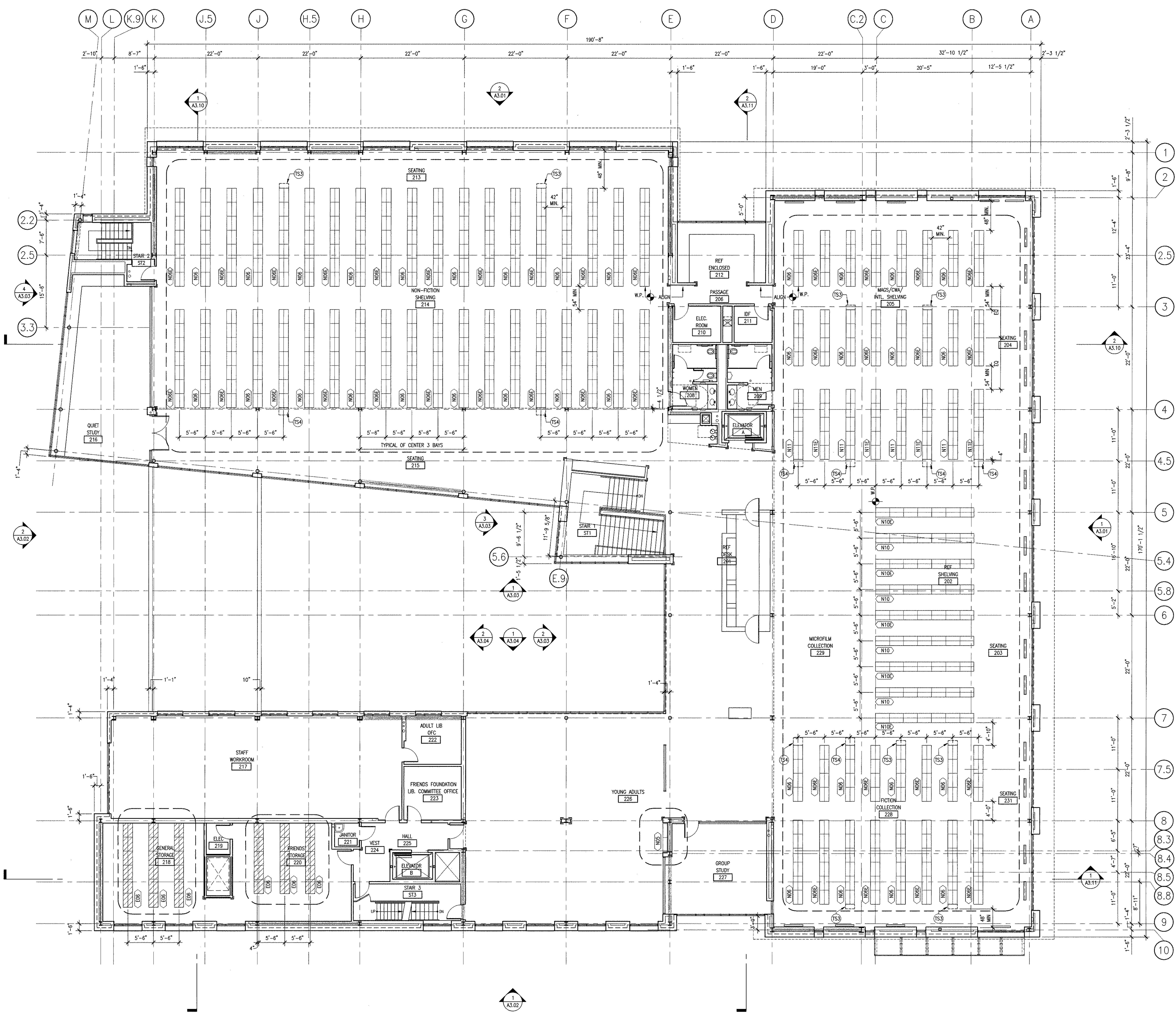
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LIBRARY FIRST FLOOR STACK & EQUIPMENT PLAN 1/8"=1'-0"

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NOTE
 1. PHASE 2 CONTRACTOR TO INSTALL BACKING PLATES IN WALLS FOR SINGLE FACED BOOKSTACK ANCHORAGE, AS PART OF PHASE 2 WORK.
BOOKSTACKS - GENERAL NOTES
 1. BASE BID: ALL BOOKSTACKS ARE CONTRACTOR FURNISHED CONTRACTOR INSTALLED. THOSE BOOKSTACKS NOTED OFCI (HATCHED) ARE CFCI IN BASE BID.
 DEDUCTIVE ALTERNATE NO. 1: CLEAN, PAINT AND INSTALL OWNER FURNISHED BOOKSTACKS (SHOWN HATCHED ON DRAWINGS). PAINT TO MATCH NEW BOOKSTACKS.
 2. REFER TO SPECIFICATION SECTION 11054 FOR FLOOR AND WALL ANCHORAGE REQUIREMENTS.
 3. BOOKSTACK SIZES ARE NOMINAL, UNLESS OTHERWISE NOTED. ALL BOOKSTACK UNITS WITHIN A STACK ROW ARE OF THE SAME SIZE AND TYPE.
 4. COORDINATE THE INSTALLATION OF THE BOOKSTACKS AND LIGHTING. REFER TO PHASE 2ELEC. LIGHTING DRAWING (A3.10) FOR STACK MOUNTED LIGHT FIXTURES.
 5. COORDINATE THE INSTALLATION OF THE BOOKSTACKS WITH FLOOR MOUNTED POWER AND DATA OUTLETS. REFER TO PHASE 2 FLOOR PLAN A2.10, AND POWER/ DATA PLAN, A12.21.
 6. BOTTOM OF CENTER RAIL OF BOOKSTACKS MUST BE 6" ABOVE FINISH FLOOR, MIN. TYPICAL OF ALL BOOKSTACKS

BOOKSTACK LEGEND

- [Symbol] NEW SINGLE FACE BOOKSTACK, CFCI
- [Symbol] OWNER FURNISHED SINGLE FACE BOOKSTACK; OFCI - SEE GENERAL NOTES
- [Symbol] NEW DOUBLE FACE BOOKSTACK; CFCI
- [Symbol] OWNER FURNISHED DOUBLE FACE BOOKSTACK; OFCI - SEE GENERAL NOTES
- [Symbol] BOOKSTACK CODE; SEE SCHEDULE BELOW
- [Symbol] 60" TERMINAL SHELF; SEE 4/A12.13; PROVIDE (2) 2" HOLE W/ GROMMET AT BASE SHELF (1 HOLE EA. SIDE)
- [Symbol] 90" TERMINAL SHELF; SEE 15/A12.13; PROVIDE (2) 2" HOLE W/ GROMMET AT BASE SHELF (1 HOLE EA. SIDE)
- [Symbol] BULLETIN BOARD END PANEL; SEE 17/A12.13
- [Symbol] LIMIT OF WORK

BOOKSTACK SCHEDULE

OWNER FURNISHED BOOKSTACKS:

- E05 90" X 36" W X 12" D SINGLE FACE BOOKSTACK W/ 6 ADJUSTABLE SHELVES AND 1 BASE SHELF. PROVIDE NEW PAINTED METAL END PANELS TO MATCH STACKS AT EXPOSED FACES.
- E06 90" X 36" W X 24" D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SHELVES AND 2 BASE SHELVES. PROVIDE NEW PAINTED METAL END PANELS TO MATCH STACKS AT EXPOSED FACES.

NEW BOOKSTACKS; SEE A12.12 FOR END PANEL ELEVATIONS AND CANOPY PLANS:

- N01 45" X 36" W X 12" D SINGLE FACE BOOKSTACK W/ 2 ADJUSTABLE SLOTTED SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP.
- N01A 45" X 36" W X 12" D SINGLE FACE BOOKSTACK W/ 2 ADJUSTABLE SLOTTED SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP. PROVIDE SOLID Baffle PANEL TO MATCH CANOPY TOP.
- N02 45" X 36" W X 24" D DOUBLE FACE BOOKSTACK W/ 4 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 5 DIVIDERS PER SHELF. PROVIDE END PANELS AND CANOPY TOP.
- N03 60" X 36" W X 12" D SINGLE FACE BOOKSTACK W/ 4 ADJUSTABLE SHELVES AND 1 BASE SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS AND CANOPY TOP.
- N04 60" X 36" W X 24" D DOUBLE FACE BOOKSTACK W/ 8 ADJUSTABLE SHELVES AND 2 BASE SHELVES. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE END PANELS AND CANOPY TOP. REFER TO [Symbol] SYMBOL FOR LOCATION OF BULLETIN BOARD END PANELS.
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- N08 60" X 36" W X 12" D SINGLE FACE BOOKSTACK W/ 4 ADJUSTABLE DISPLAY SHELVES AND 1 FLAT BASE SHELF. PROVIDE END PANELS AND CANOPY TOP.
- N09 90" X 36" W X 24" D DOUBLE FACE BOOKSTACK W/ 12 ADJUSTABLE DISPLAY SHELVES AND 2 FLAT BASE SHELVES. PROVIDE END PANELS.
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- N11E 90" X 36" W X 24" D DOUBLE FACE BOOKSTACK W/12 ADJUSTABLE SLOTTED SHELVES AND 2 BASE SHELVES. PROVIDE 5 DIVIDERS PER SHELF. INTEGRAL 1 1/2" STOP ON BACK OF SHELVES. PROVIDE 1" HOLE WITH GROMMET IN VERTICAL STACK POST BELOW BASE SHELF FOR STACK LIGHTS, S.E.D. AND COORDINATE W/ PHASE 2 CONTRACTOR. PROVIDE END PANELS.

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stamp
 LICENSED ARCHITECT
 LINA A. SQUITA
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

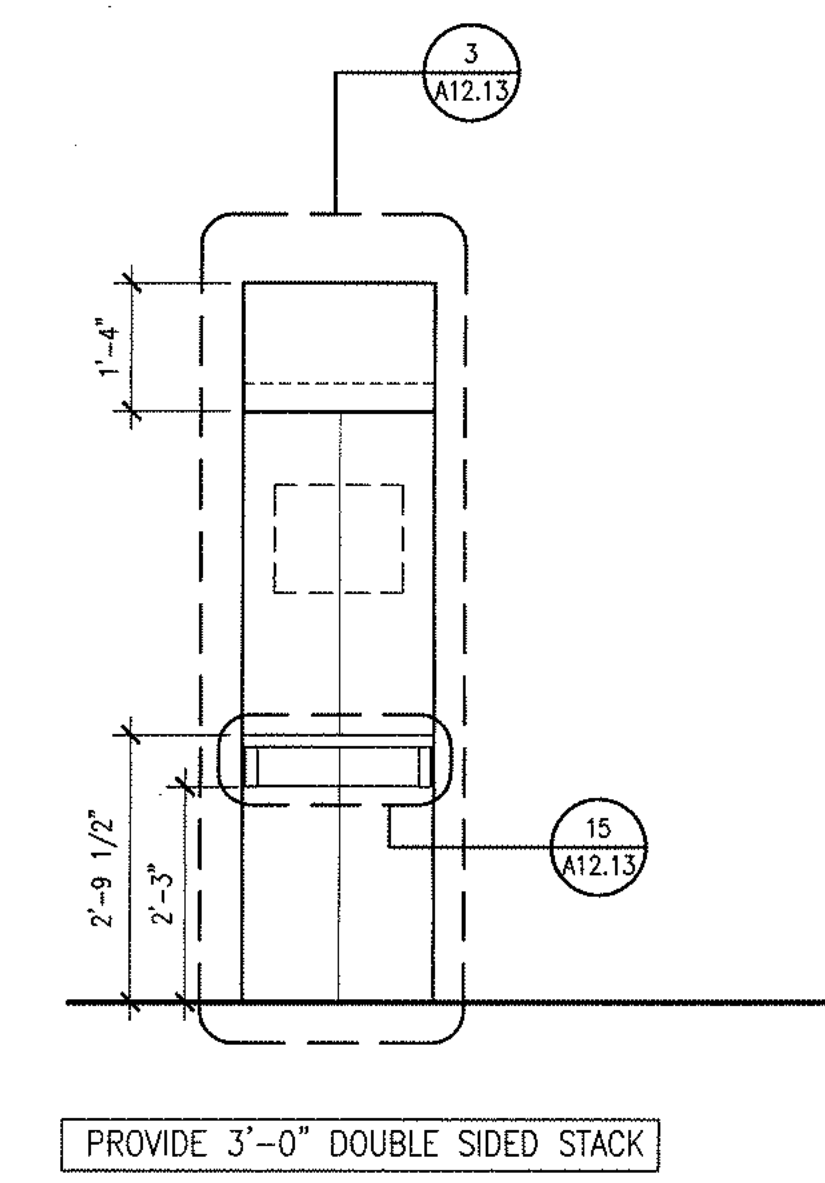
BOOKSTACKS BID SET
LIBRARY SECOND FLOOR STACK PLAN

scale 1/8" = 1'-0"
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 drawn by LL project number 20114.00
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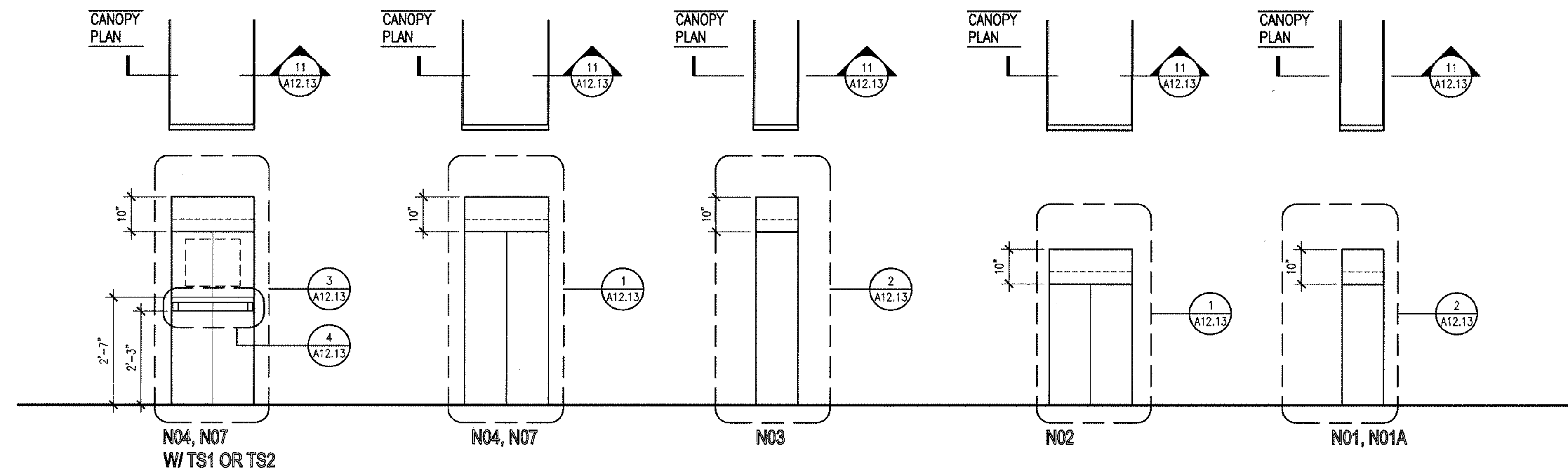
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LIBRARY SECOND FLOOR STACK & EQUIPMENT PLAN 1/8"=1'-0"

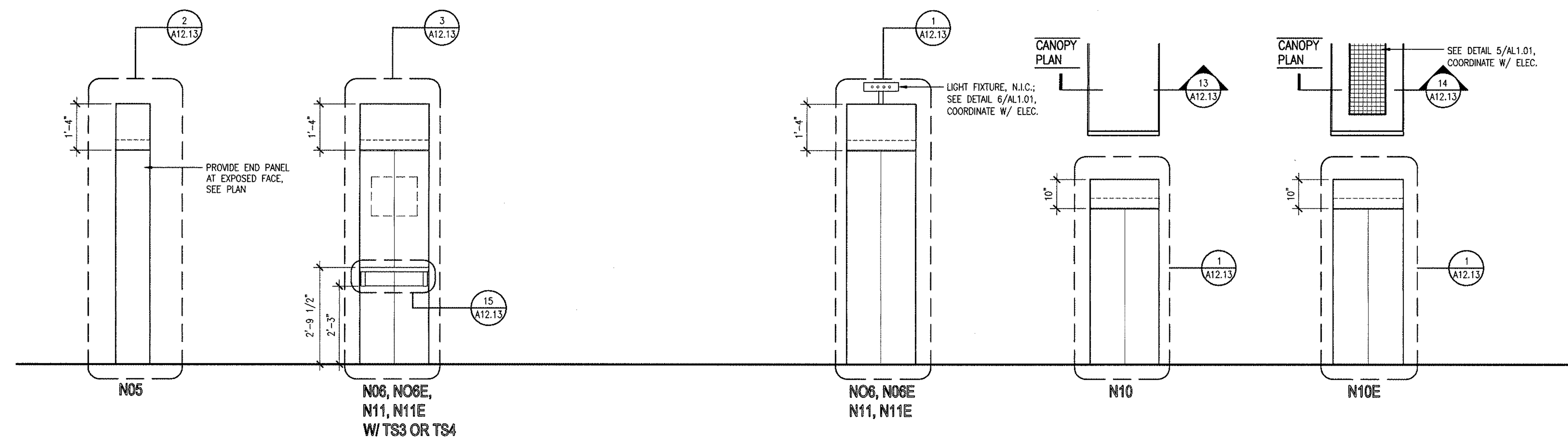
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MOCK-UP; N06 WITH TS4
1/2"=1'-0" 3



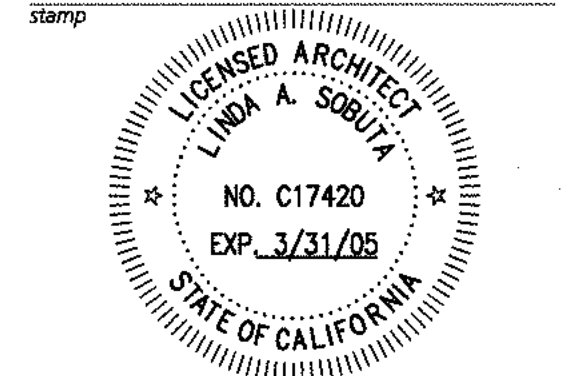
FIRST FLOOR- CHILDREN'S COLLECTION AND BROWSING STACKS
1/2"=1'-0" 2



SECOND FLOOR- NONFICTION, FICTION AND REFERENCE SHELVES
1/2"=1'-0" 1

Revisions	Date	Description
△	2003.05.07	ADDENDUM NO. 1

11-29-04 Updated Contract Documents



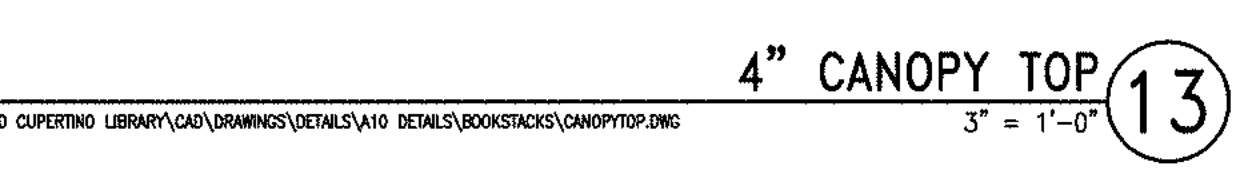
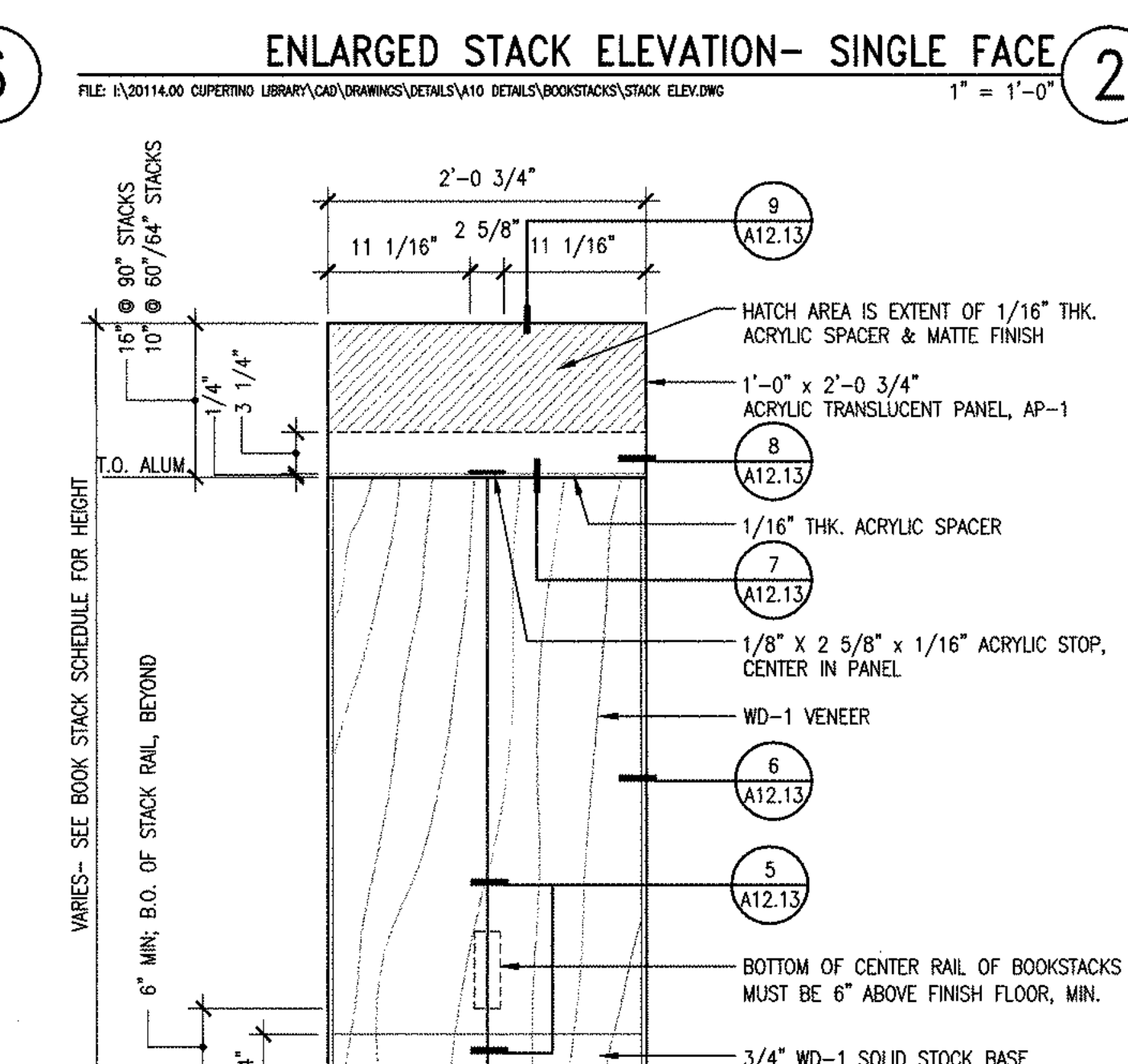
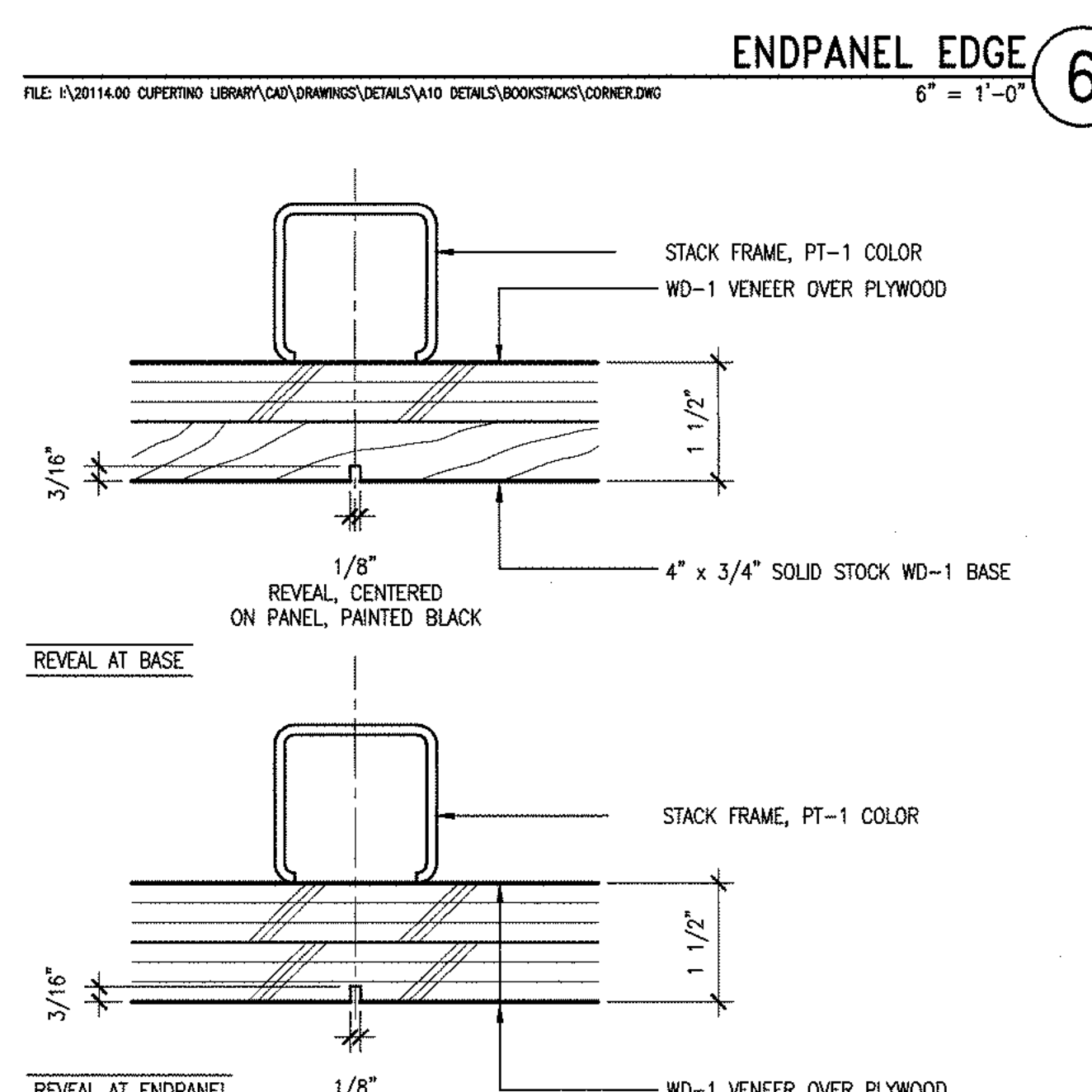
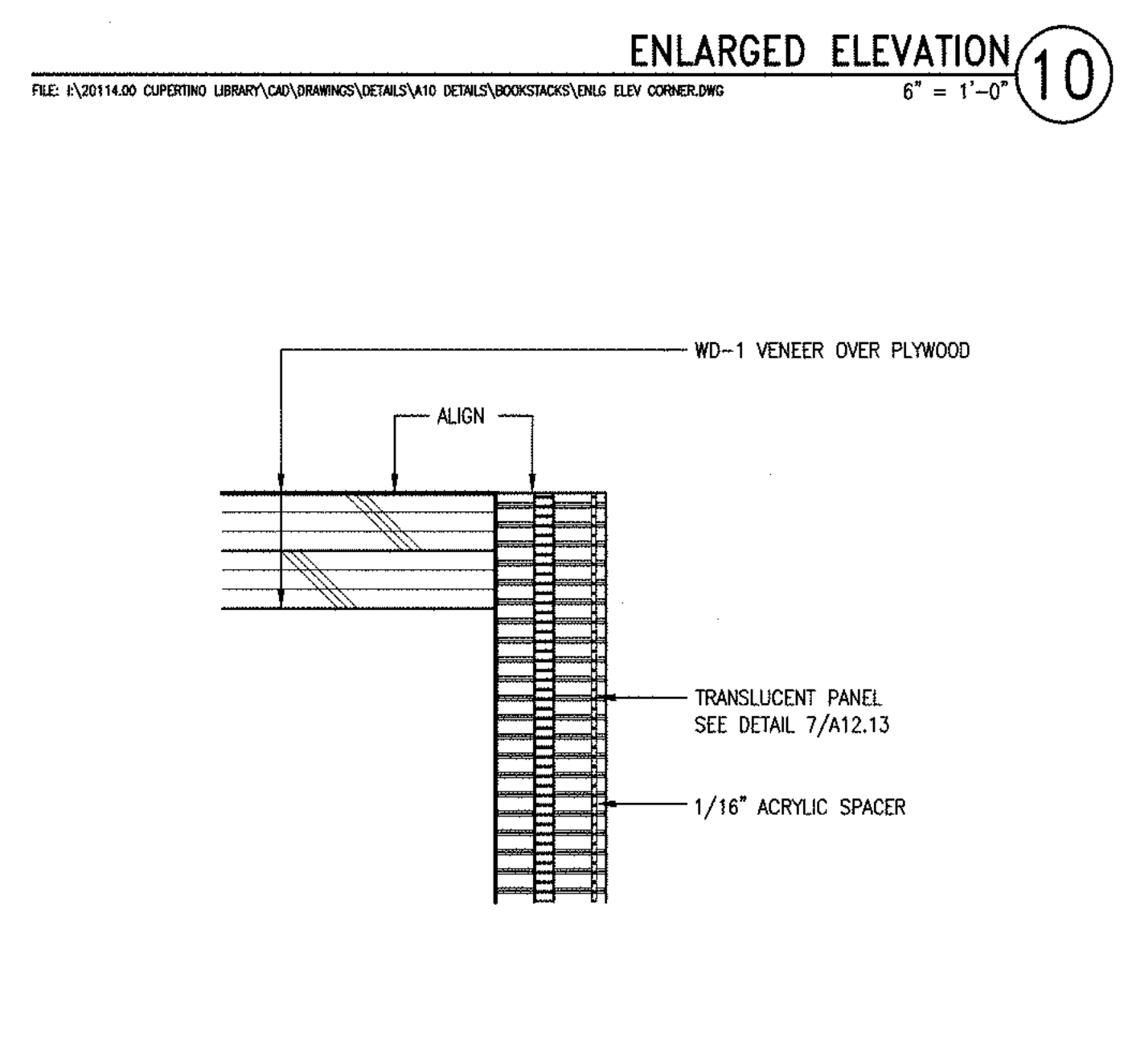
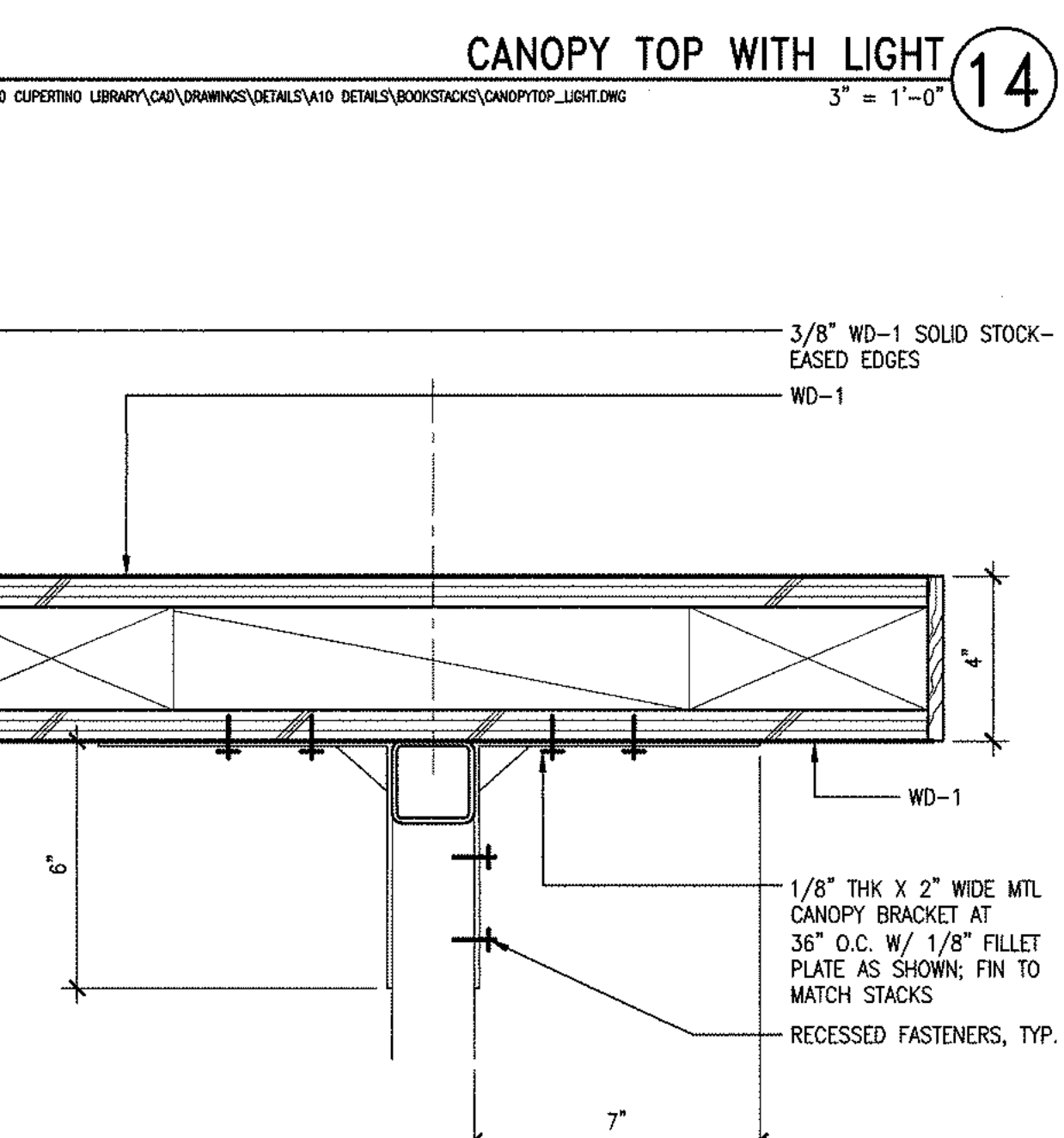
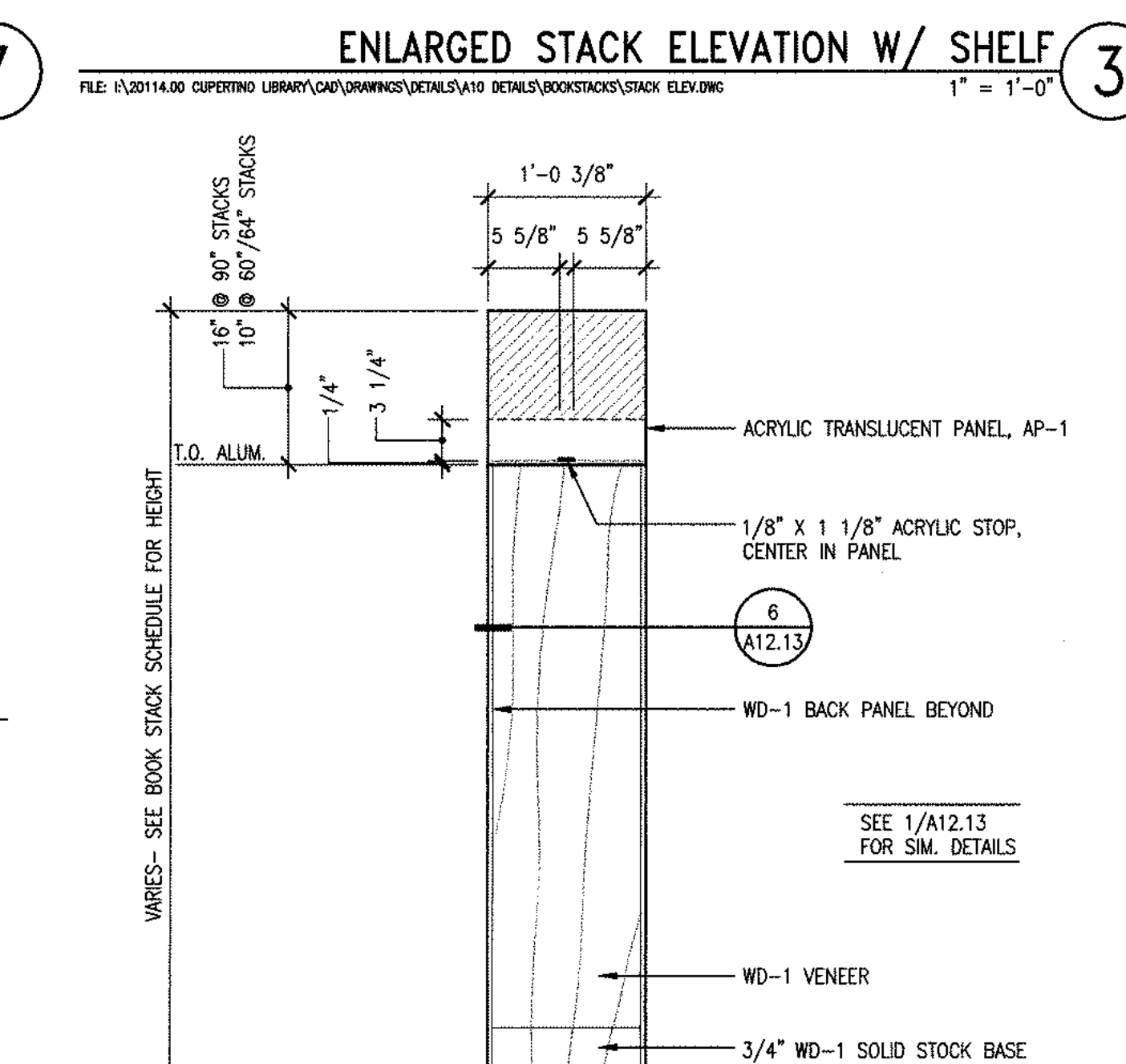
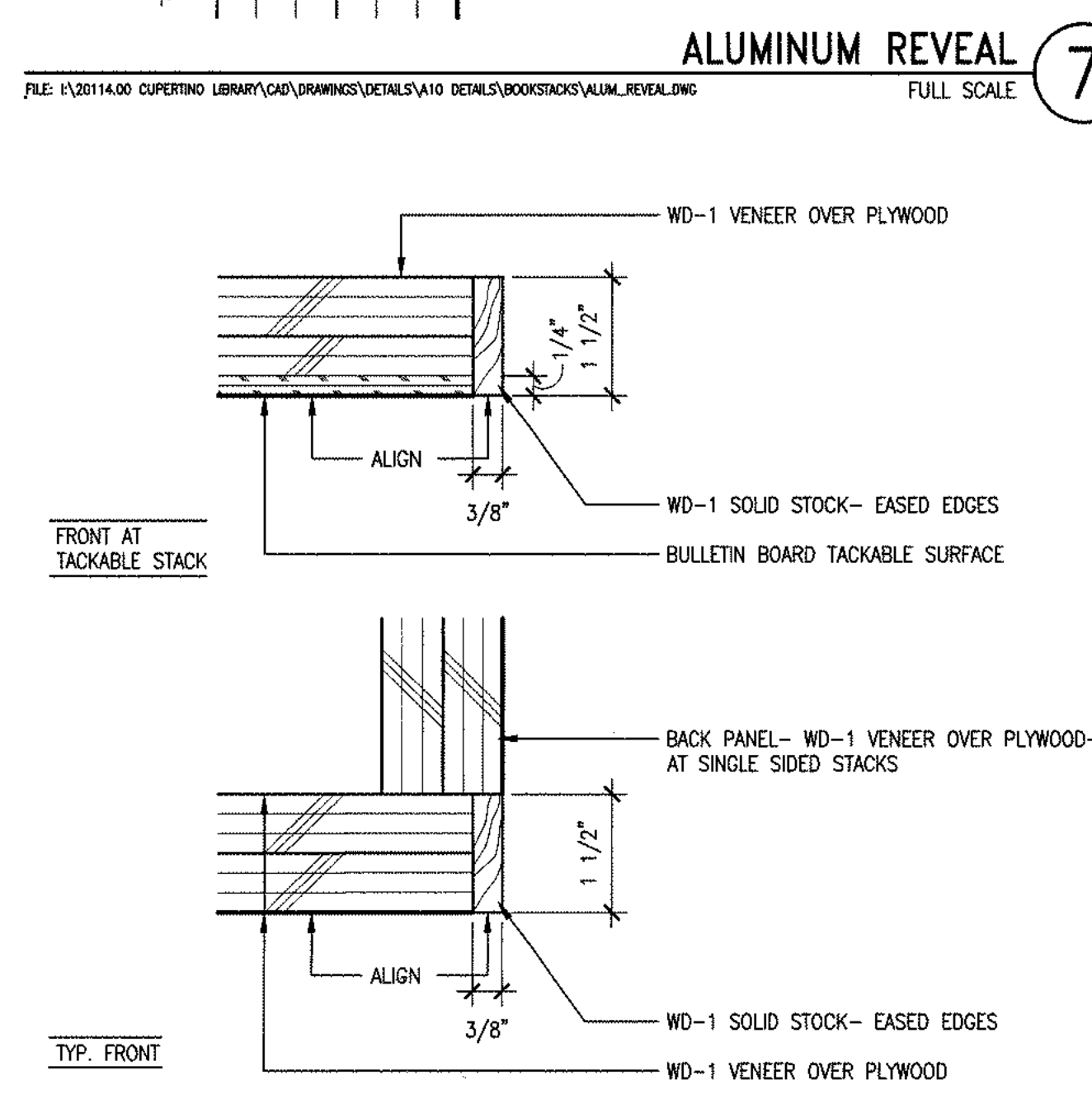
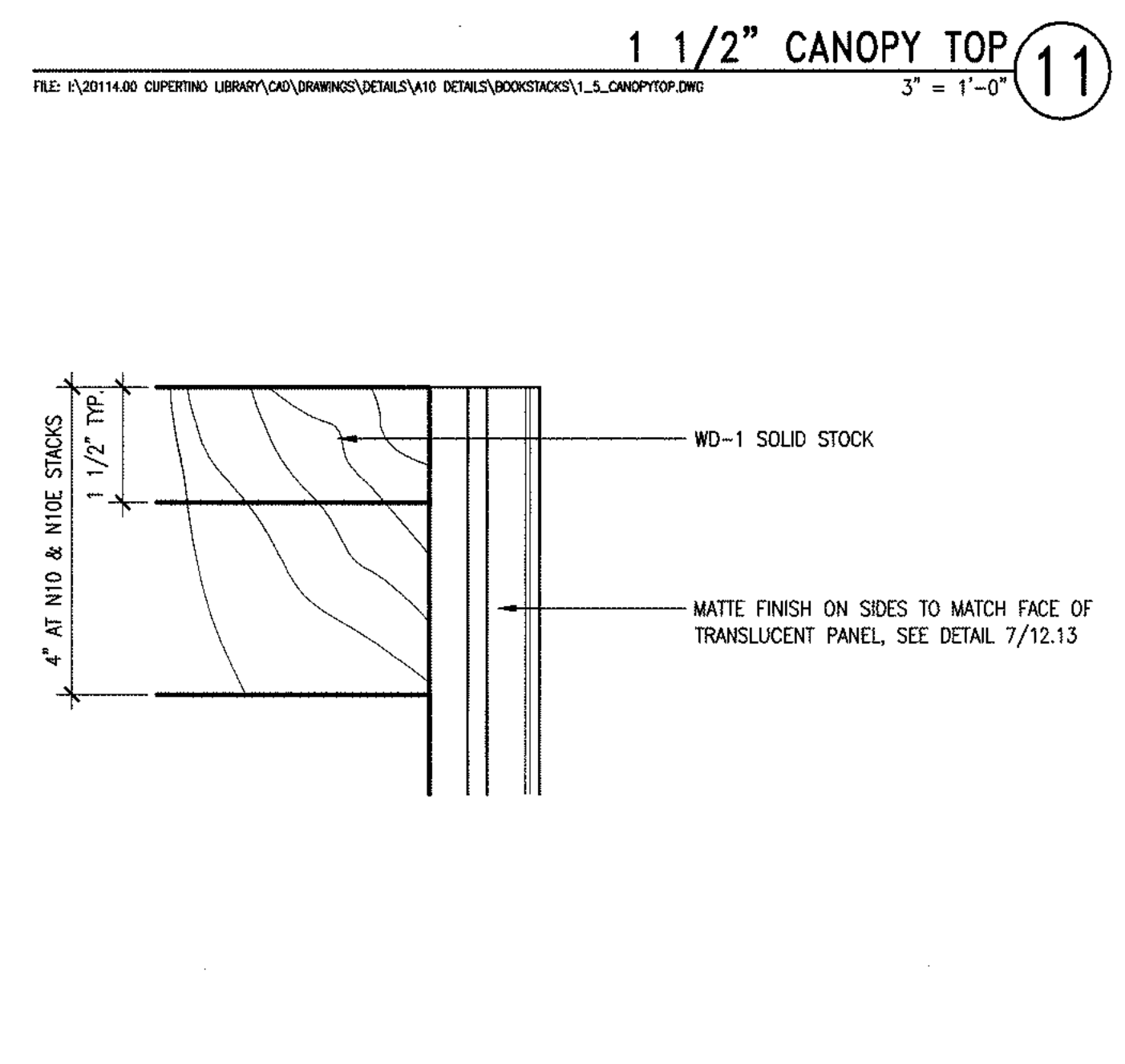
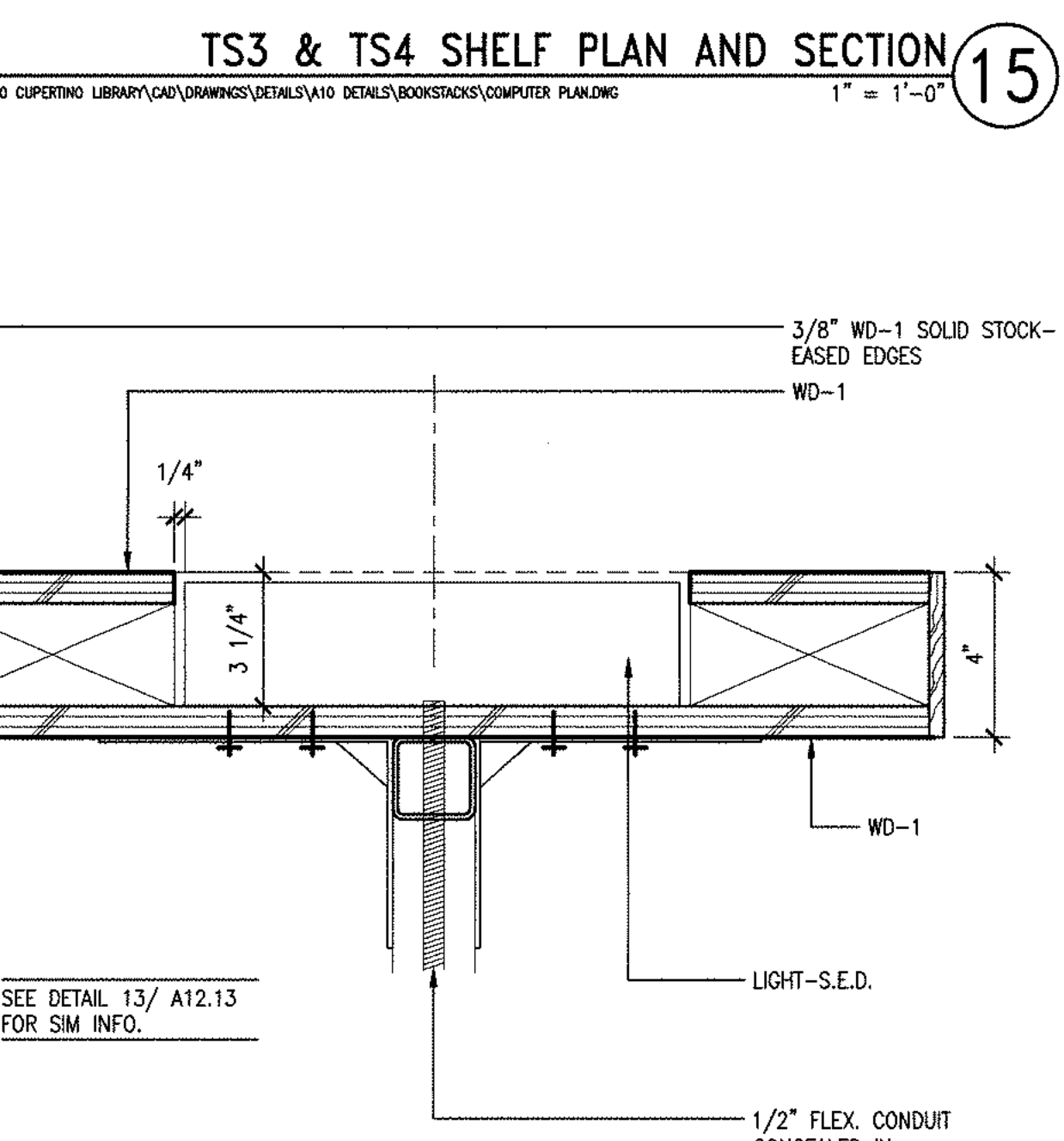
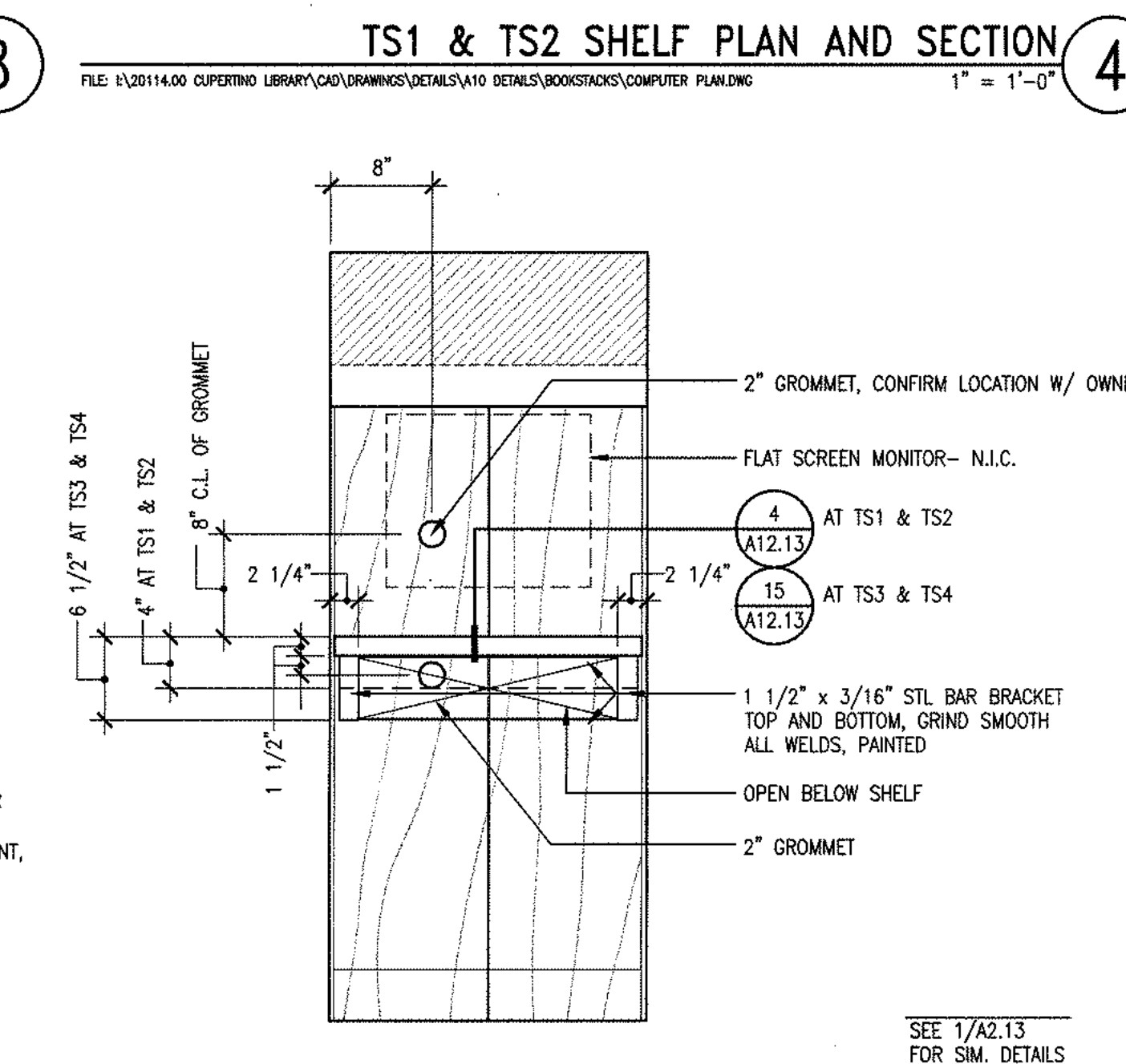
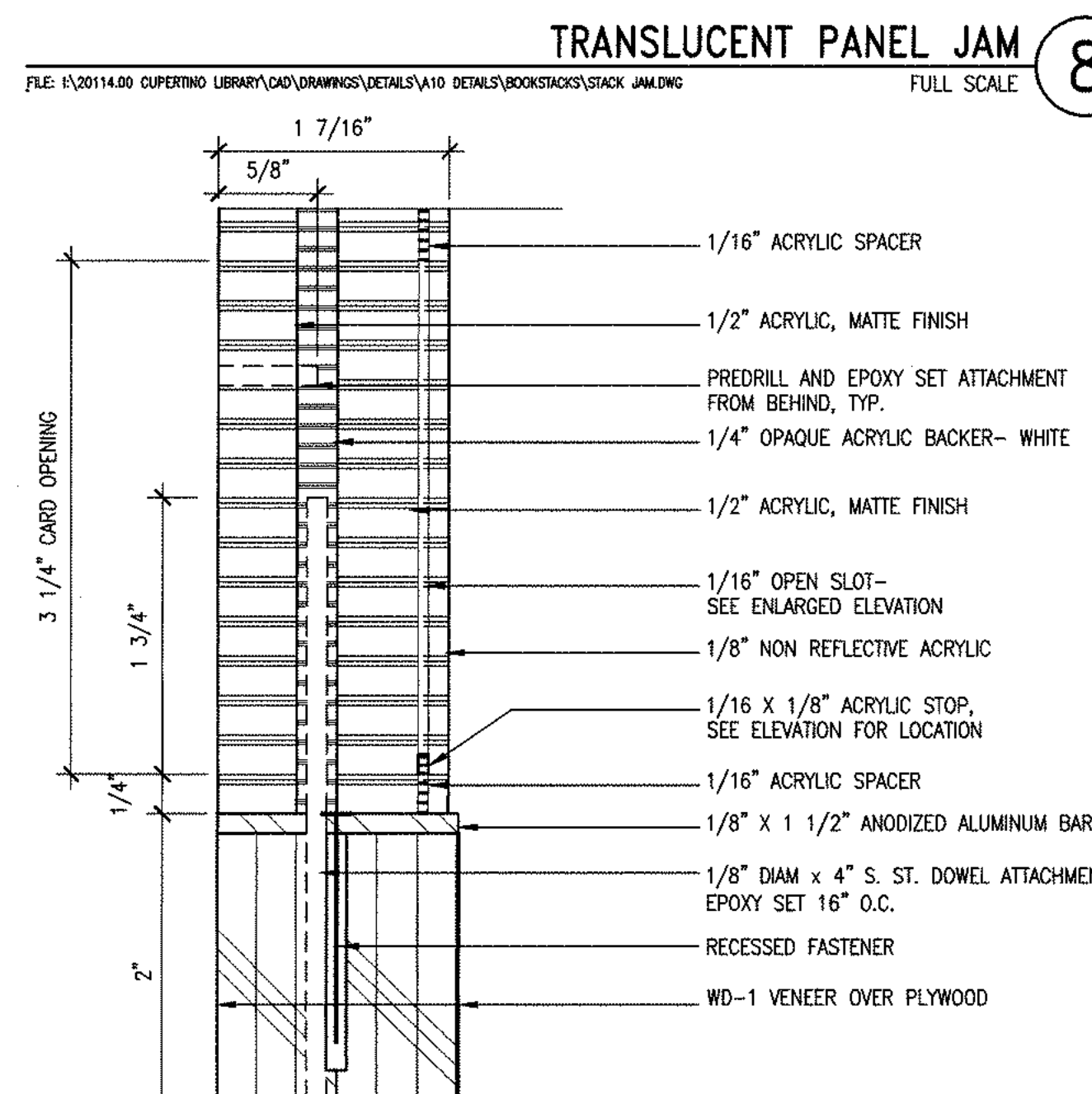
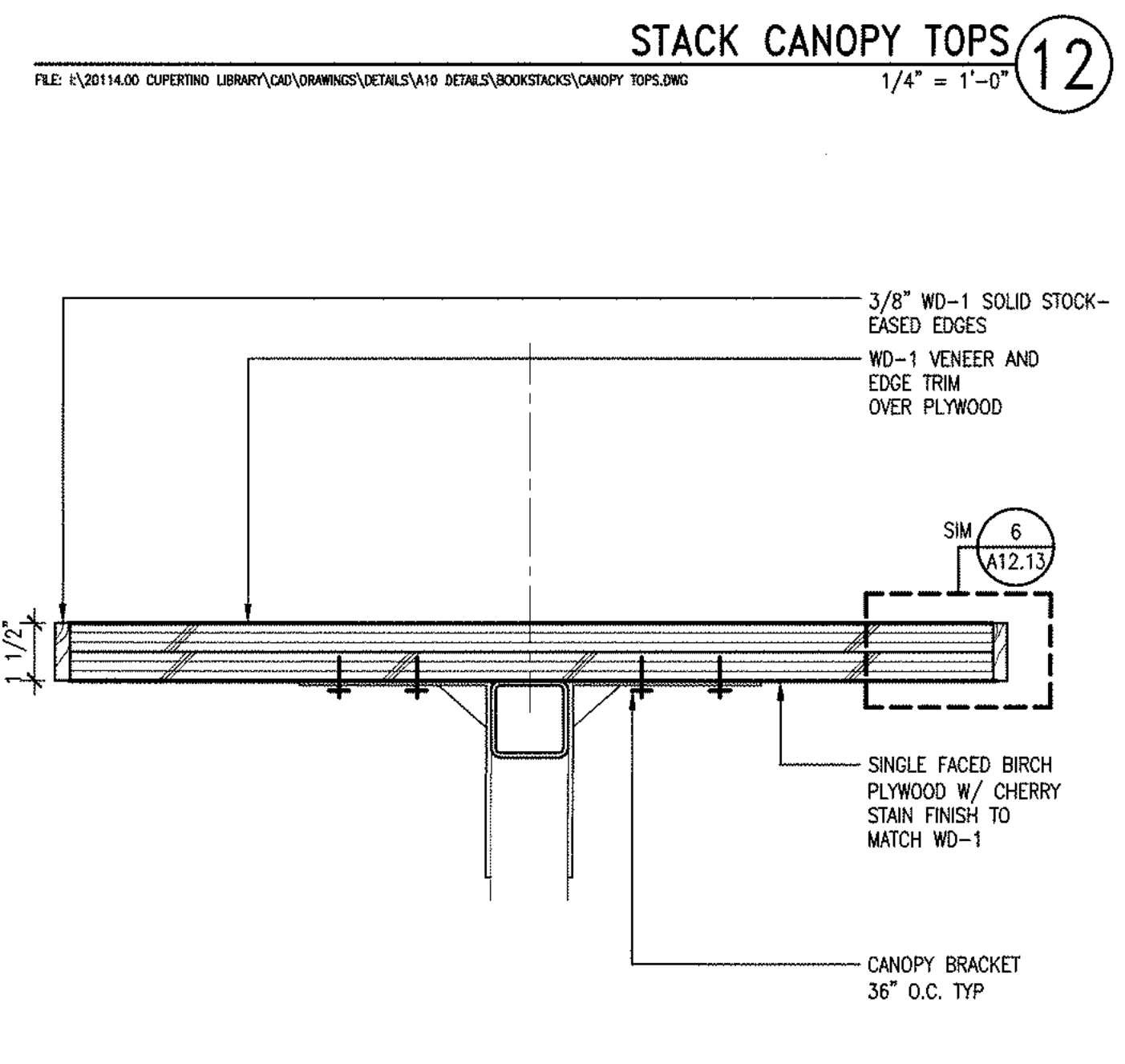
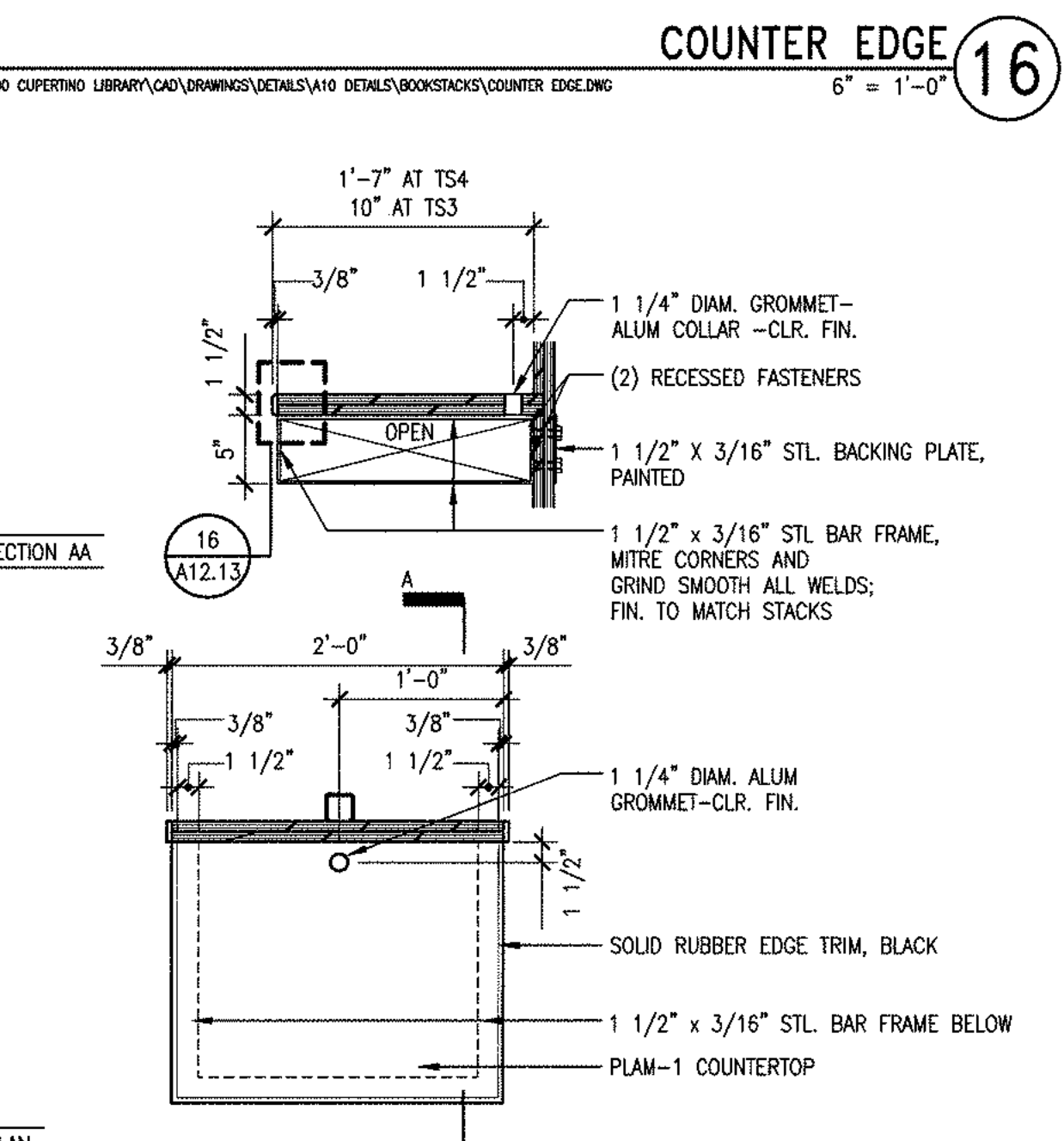
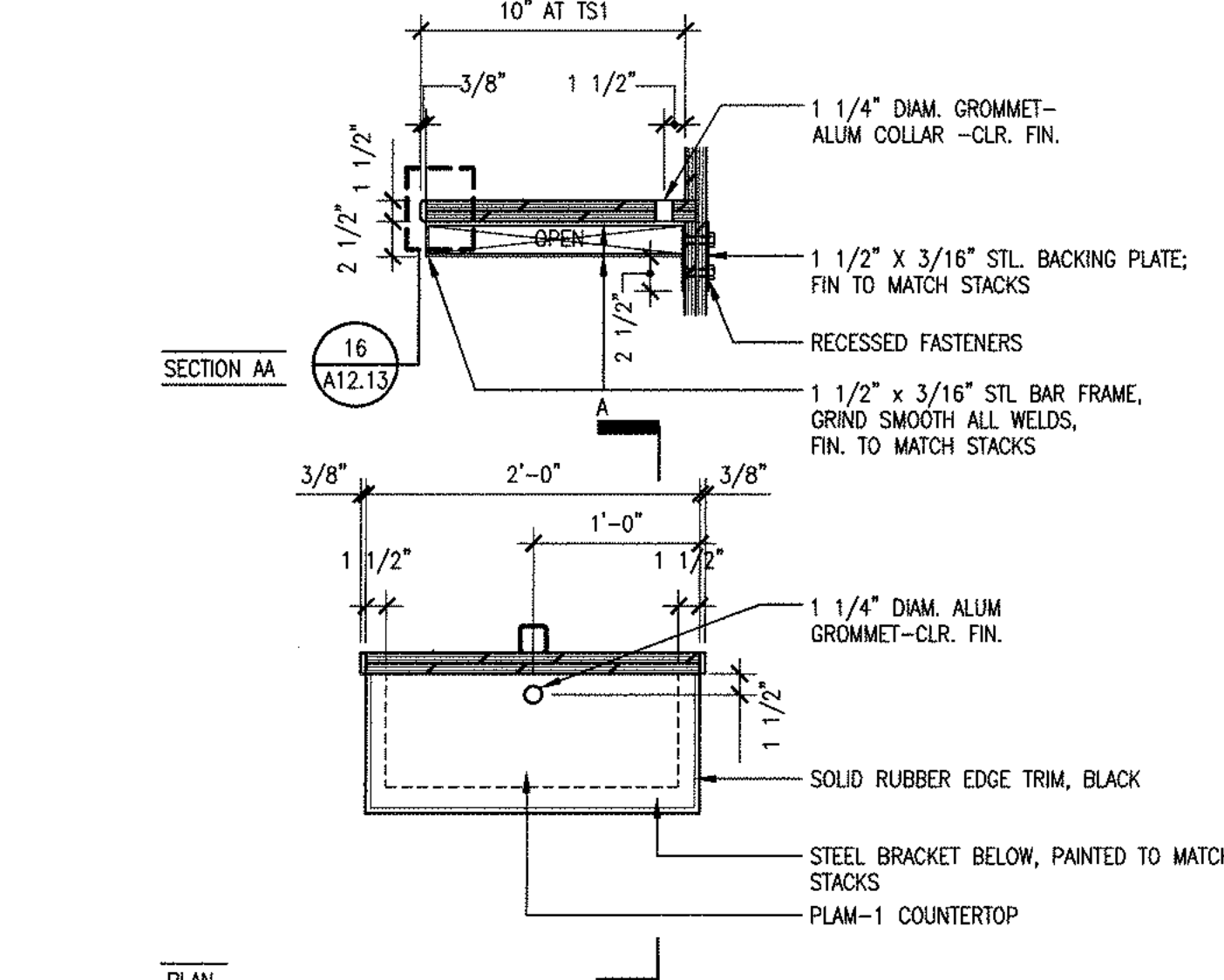
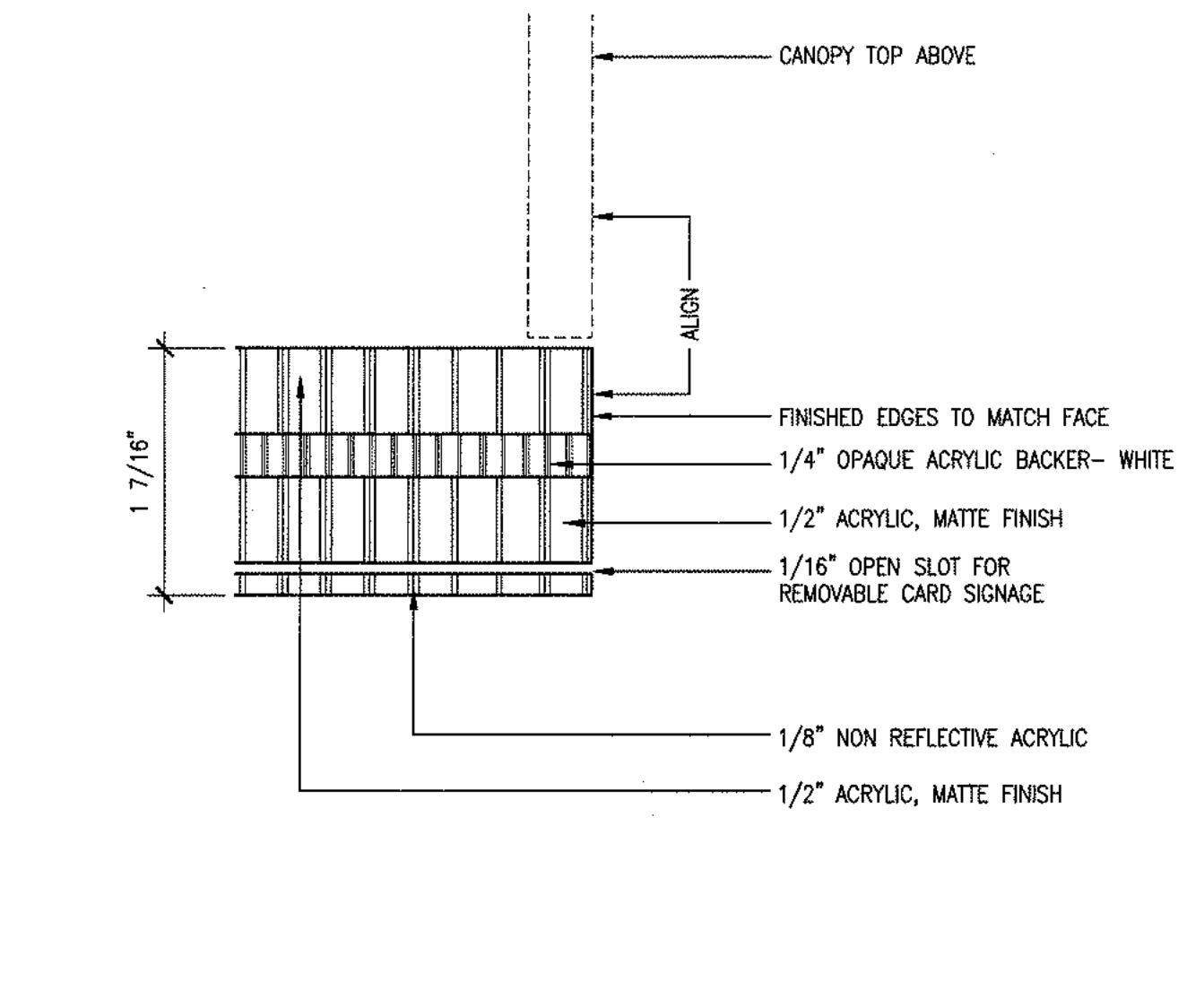
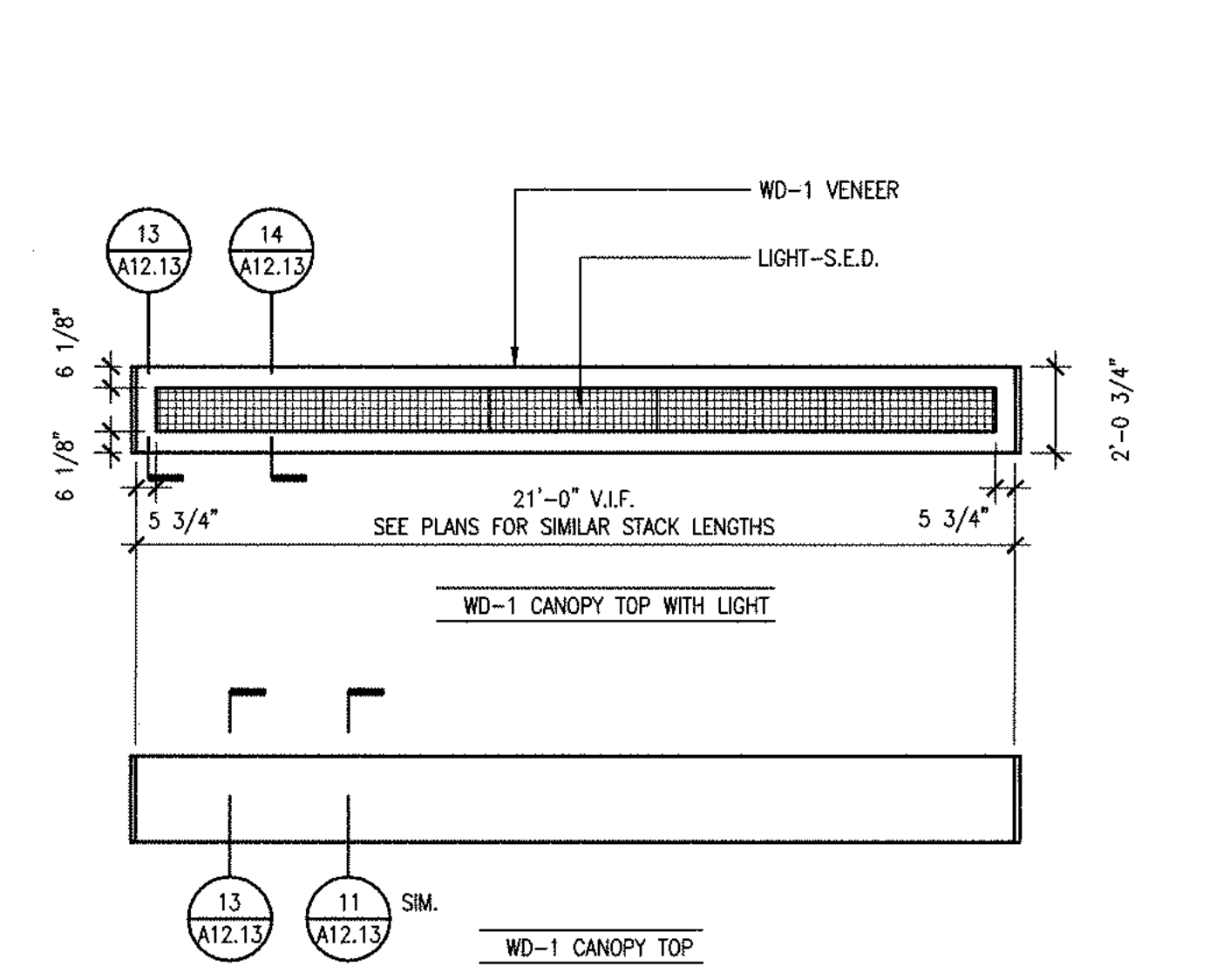
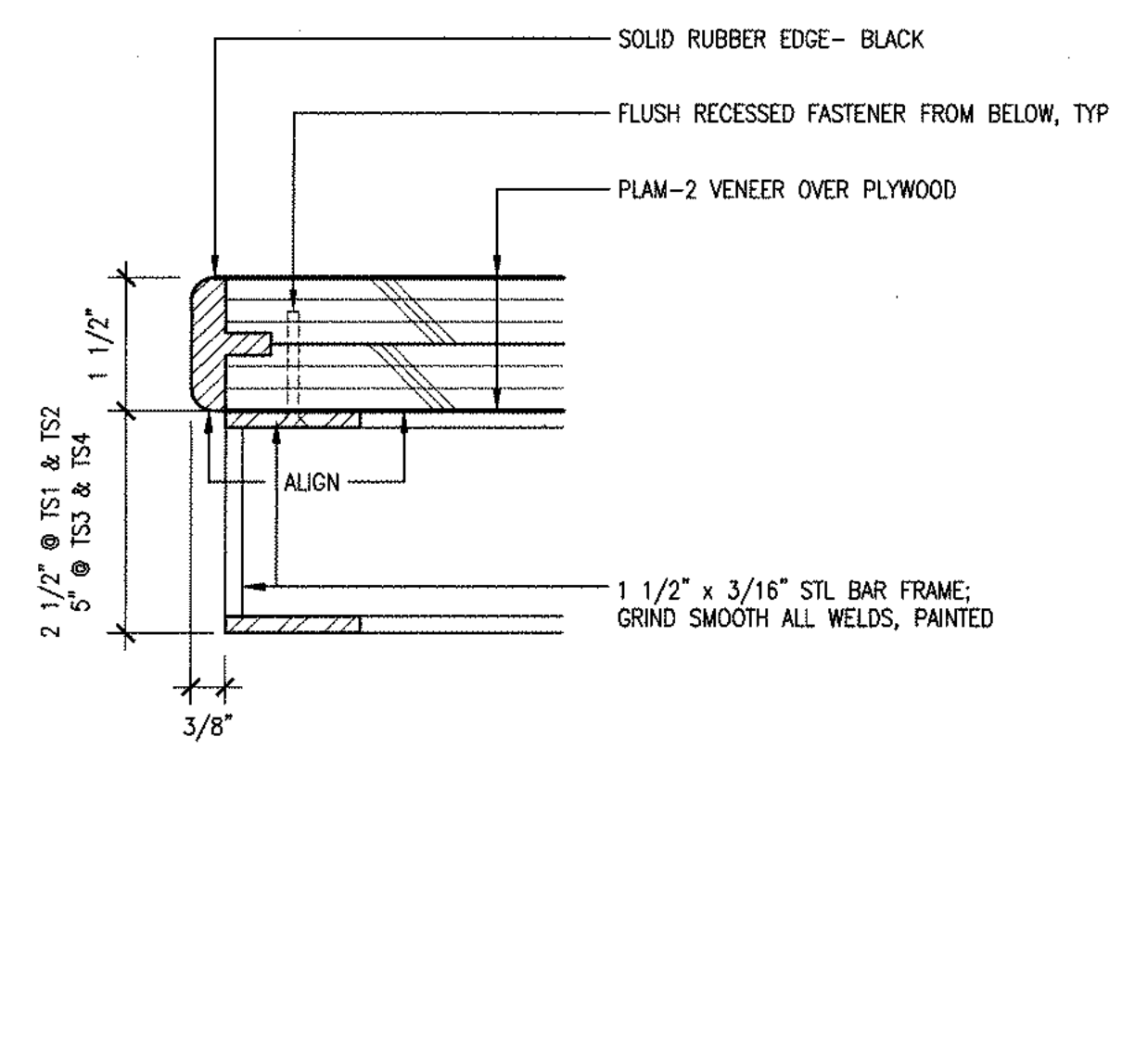
BOOKSTACKS BID SET

BOOKSTACK CASEWORK ELEVATIONS

Scale	Date
AS NOTED	2003.12.12
Drawn by	Project number
GN	20114.00
Sheet number	

A12.12

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www.shawm.com

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408 777 3333 F

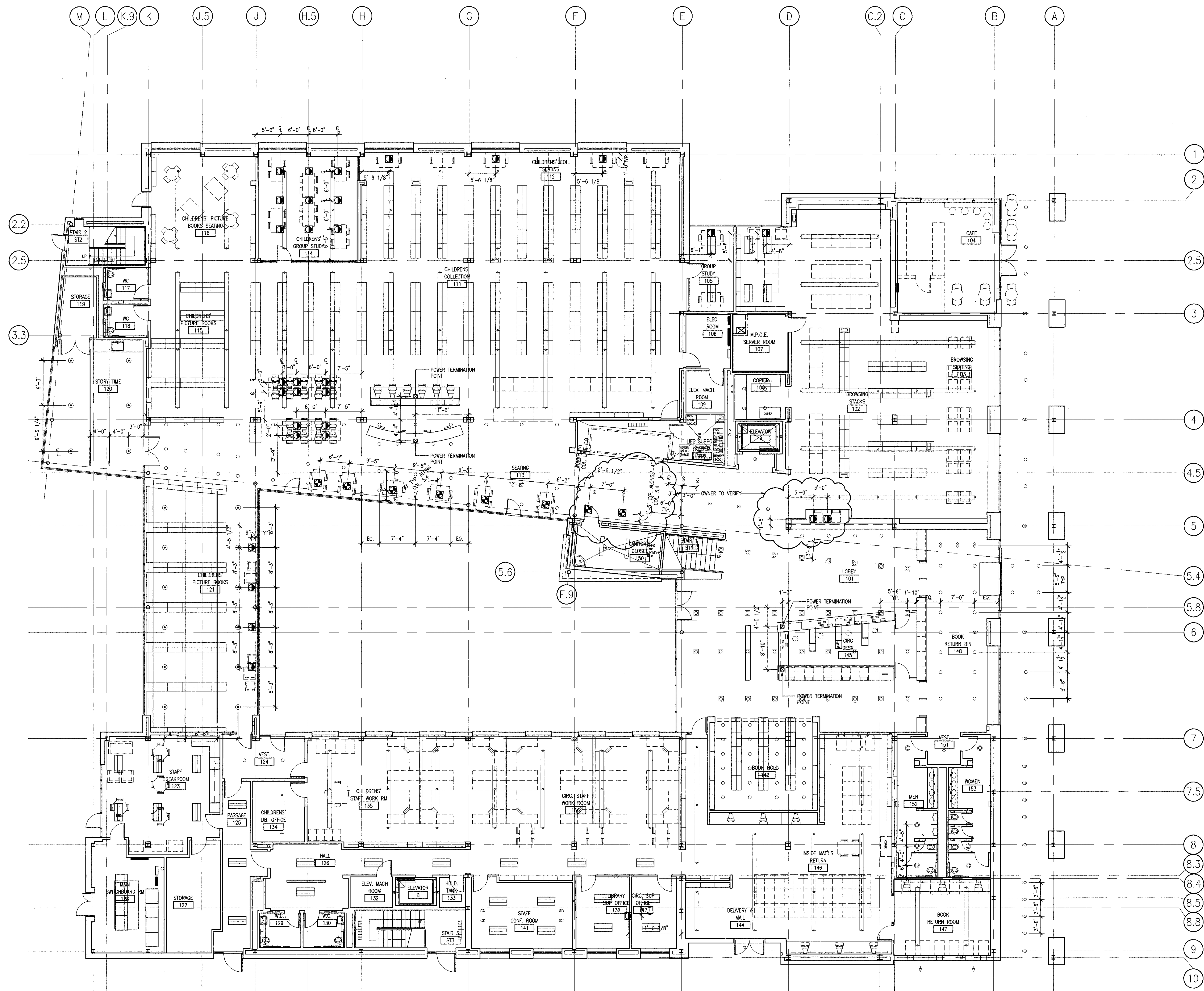
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BOOKSTACKS BID SET

BOOKSTACK CASEWORK DETAILS

A12.13

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FIRST FLOOR POWER/DATA AND SIGNAGE FLOOR PLAN 1
1/8" = 1'-0"

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408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

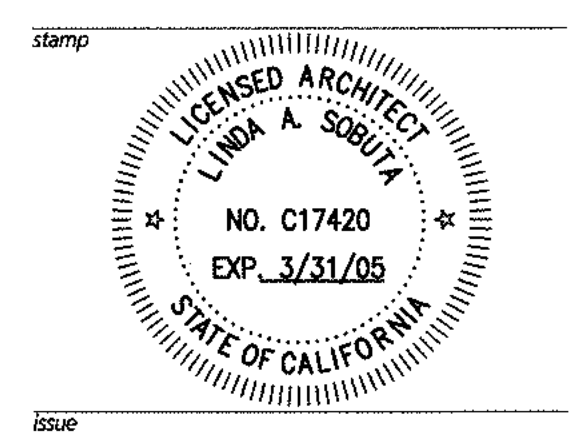
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Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

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Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105
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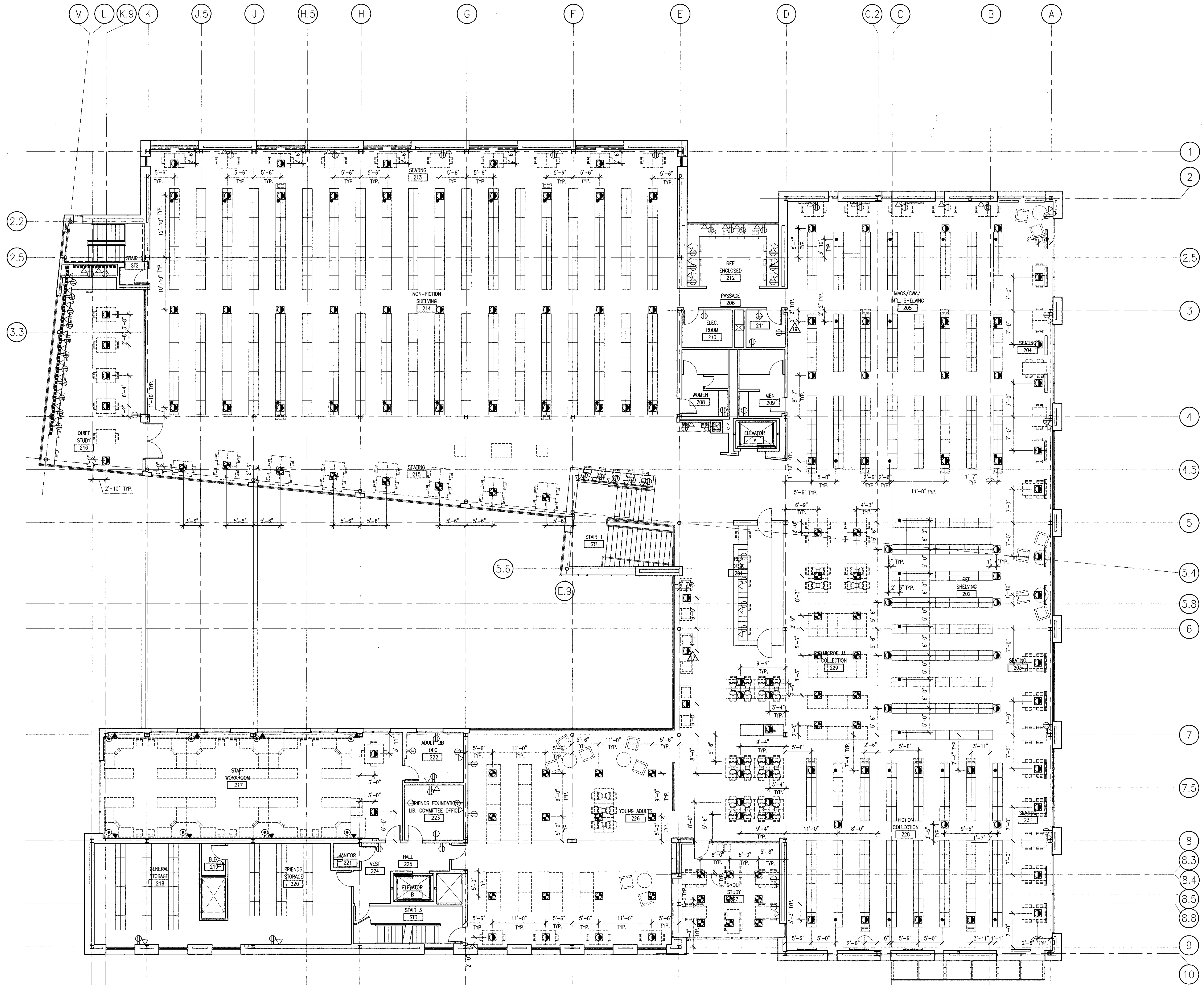
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LIBRARY
FIRST FLOOR
POWER/DATA
LOCATIONS

Scale: 1/8" = 1'-0"
Date: 2003.04.18
Drawn by: GN
Project number: 20114.00
Sheet number: 12

A12.20

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LIBRARY SECOND FLOOR POWER/DATA & SIGNAGE LOCATIONS 1
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www.shwm.com

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916 435 2410 F

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415 865 1811 T
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revisions:
 2003.11.14 CCD NO. 15
 2003.11.14 CCD NO. 17

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 LICENSED ARCHITECT
 LARRY A. SCHULTZ
 NO. C17420
 EXP. 3/31/05
 STATE OF CALIFORNIA

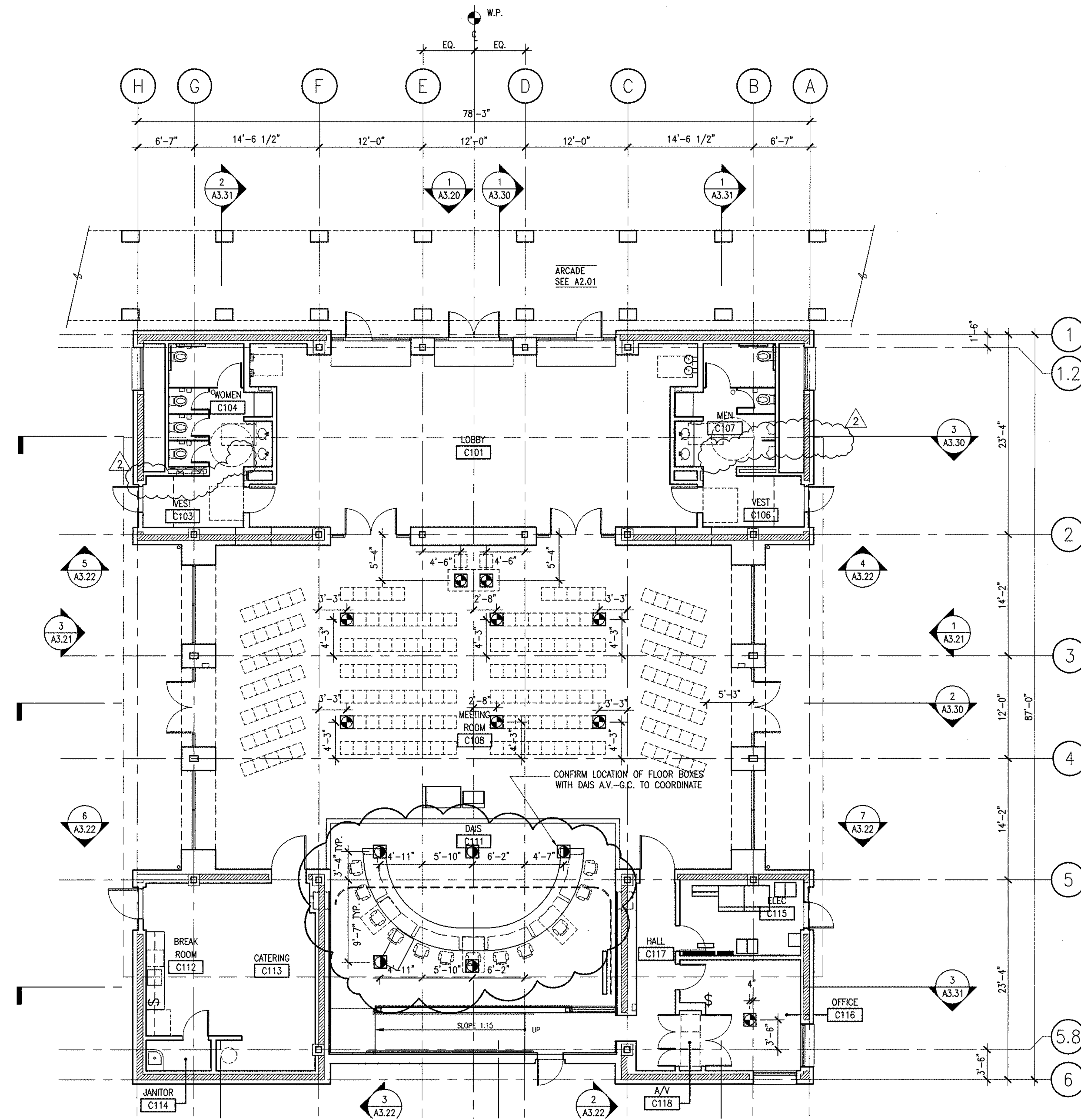
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SHEET TITLE
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SCALE
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 DRAWN BY project number 20114.00
 SHEET NUMBER 01

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COMMUNITY HALL FIRST FLOOR POWER/DATA & SIGNAGE LOCATIONS 1
1/8" = 1'-0"

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planning
graphic design

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916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

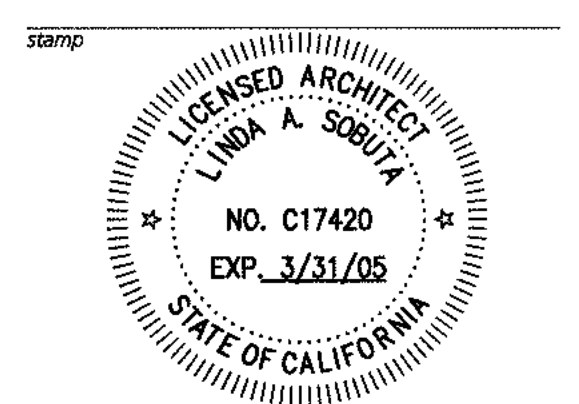
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Suite 500
San Francisco, CA 94105
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DATE: BID SET

SHEET TITLE: COMMUNITY HALL
FIRST FLOOR
POWER/DATA
LOCATIONS

scale: 1/8" = 1'-0" date: 2003.04.18
drawn by: GN project number: 20114.00
sheet number: 1

A12.22

1

GENERAL

CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, 2001 EDITION.

DESIGN BASIS

THE DESIGN IS IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, 2001 EDITION AND PROVIDES FOR THE FOLLOWING LOADS:

SPECIAL INSPECTIONS

THE SPECIAL INSPECTION REQUIREMENTS OF SECTION 1701 OF THE 2001 CBC APPLY TO THE FOLLOWING:

FOUNDATIONS

FOR DETAILED INFORMATION, REFER TO "GEO TECHNICAL INVESTIGATION, CUPERTINO LIBRARY REPLACEMENT PROJECT" BY TREADWELL & ROLLO, DATED NOV. 4, 2002.

CONCRETE

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS. ALL CONCRETE SHALL DEVELOP THE FOLLOWING COMPRESSIVE STRENGTHS AT 28 DAYS:

CONCRETE MASONRY UNIT

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING:

REINFORCING STEEL

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL CONCRETE SHALL BE REINFORCED WITH REINFORCING STEEL.

STRUCTURAL STEEL

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:

METAL DECK

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. SEE SHEET S7.02 FOR DECK PROFILES.

WELDED STUDS

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL STEEL BEAMS SUPPORTING CONCRETE SLABS OR CONCRETE FILL ON METAL DECK SHALL HAVE WELDED STUDS.

STRUCTURAL SHEATHING

STRUCTURAL SHEATHING SHALL BE APA GRADE STRUCTURAL 1, CONFORMING TO PSI-95, CDX GRADE.

GLUE LAMINATED UNITS

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. V4 FOR SIMPLE SPAN APPLICATIONS.

CARPENTRY

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL FRAMING SHALL BE DOUGLAS FIR, NO. 1.

DRILLED DOWELS

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS. ALL DRILLED DOWELS SHALL BE REINFORCING STEEL.

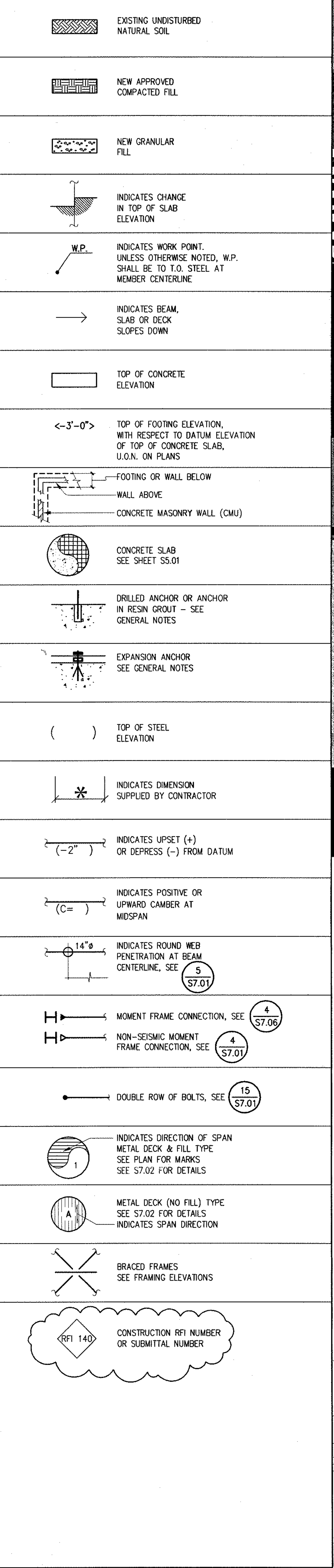
DRILLED ANCHORS

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS. ALL DRILLED ANCHORS SHALL BE A36 ALL-THREAD ROD.

ABBREVIATIONS

A.B. ANCHOR BOLT; A.V. ABOVE; B.L.W. BELOW; B.M. BEAM.

LEGEND



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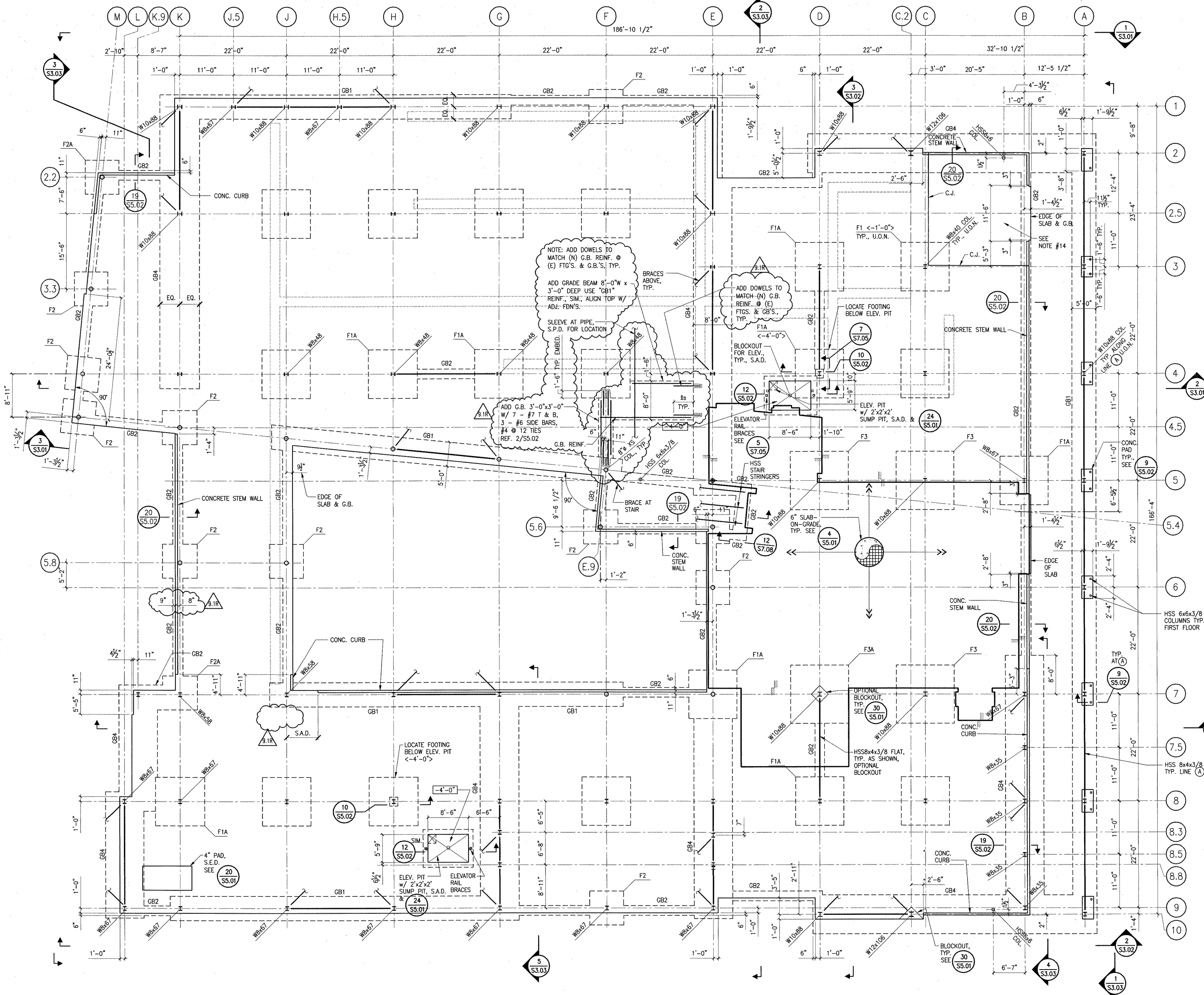
SWMM 888 Market Street, 3rd Floor, San Francisco, CA 94103

Scale: NO SCALE; Date: 2003.04.18; Sheet number: 1035

Cupertino Civic Center 10300 Torre Avenue, Cupertino, CA 95014. Includes contact information for various firms like Sandis Humber Jones, Hargreaves Associates, etc.

11-29-04 Updated Contract Documents

CA UPDATE SET GENERAL NOTES SO.01



- NOTES:**
- REFER TO GENERAL NOTES, ABBREVIATIONS AND LEGEND ON SHEET S0.01
 - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, DEPRESSIONS, CURBS, SLOPES, AND INFORMATION NOT NOTED.
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 - EQUIPMENT PADS AND CURBS ARE DEFINED IN ARCH., MECH., ELEC., AND PLUMBING DRAWINGS. SEE 20/S5.01 AND 11/S7.02 FOR DETAILS.
 - SEE S5.01 FOR TYPICAL CONCRETE DETAILS.
 - SEE S5.02 FOR GRADE BEAM AND FOOTING SCHEDULES AND DETAILS.
 - SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ELECTRICAL BOXES TO BE CAST INTO THE SLAB.
 - SEE CIVIL DRAWINGS FOR BUILDING PAD INFORMATION.
 - COLUMN SIZES SHOWN ARE FOR THE FULL HEIGHT OF THE COLUMN, TYP., U.O.N.
 - ANCHOR BOLTS PROJECTING ABOVE THE BASE PLATE AND BELOW THE SLAB SHALL BE ENCASED IN CONCRETE.
 - SEE 15/S5.01 FOR TRENCH DETAIL AT ELECTRICAL DUCTS. S.A.D. FOR LOCATIONS.
 - PERIMETER GRADE BEAMS AND FOOTINGS ARE CENTERED ON COLUMN LINES, U.O.N. COORDINATE ALL HORIZONTAL PENETRATIONS OF CONDUITS AND PIPES. SEE M/E/P & TELECOM DRAWINGS.
 - PERIMETER GRADE BEAMS AND FOOTINGS PROVIDE SUPPORT FOR THE EXTERIOR VENEER. COORDINATE EDGE OF GRADE BEAMS AND FOOTINGS WITH THE LOCATION OF THE EXTERIOR VENEER.
 - SLAB IN CAFE AREA TO BE POURED LATER. S.A.D.
 - COORDINATE LOCATION, EXTENT & DETAILS OF CONCRETE CURB AND STEM WALLS W/ ARCH. DWGS.
 - FOR SLAB ON GRADE CONSTRUCTION JOINTS, SEE 14/S5.01 AND SEE SPECS.
 - PRIOR TO THE CONTRACTOR REQUESTING A FOUNDATION INSPECTION, THE SOIL ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
 - THE BUILDING EXCAVATION AND BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.
 - THE FOUNDATION FORMING AND GRADING COMPLY WITH THE SOIL REPORT AND APPROVED PLANS.
 - DRAINAGE SYSTEM IN ACCORDANCE WITH THE SOIL REPORT.

FOUNDATION PLAN

1/8" = 1'-0"

T.O.C. = +227'-9"
DATUM 0'-0"



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Suite 2
Sacramento, CA 95815
916 929 9290 T
916 929 9541 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser Engineers, Inc.
160 Fine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
343 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
415 433 5311 F

Architectural Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

Charles M. Salter Associates, Inc.
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San Jose, CA 95134
408 432 7270 T
408 432 7235 F

revisions
3.1A CCD 7.1

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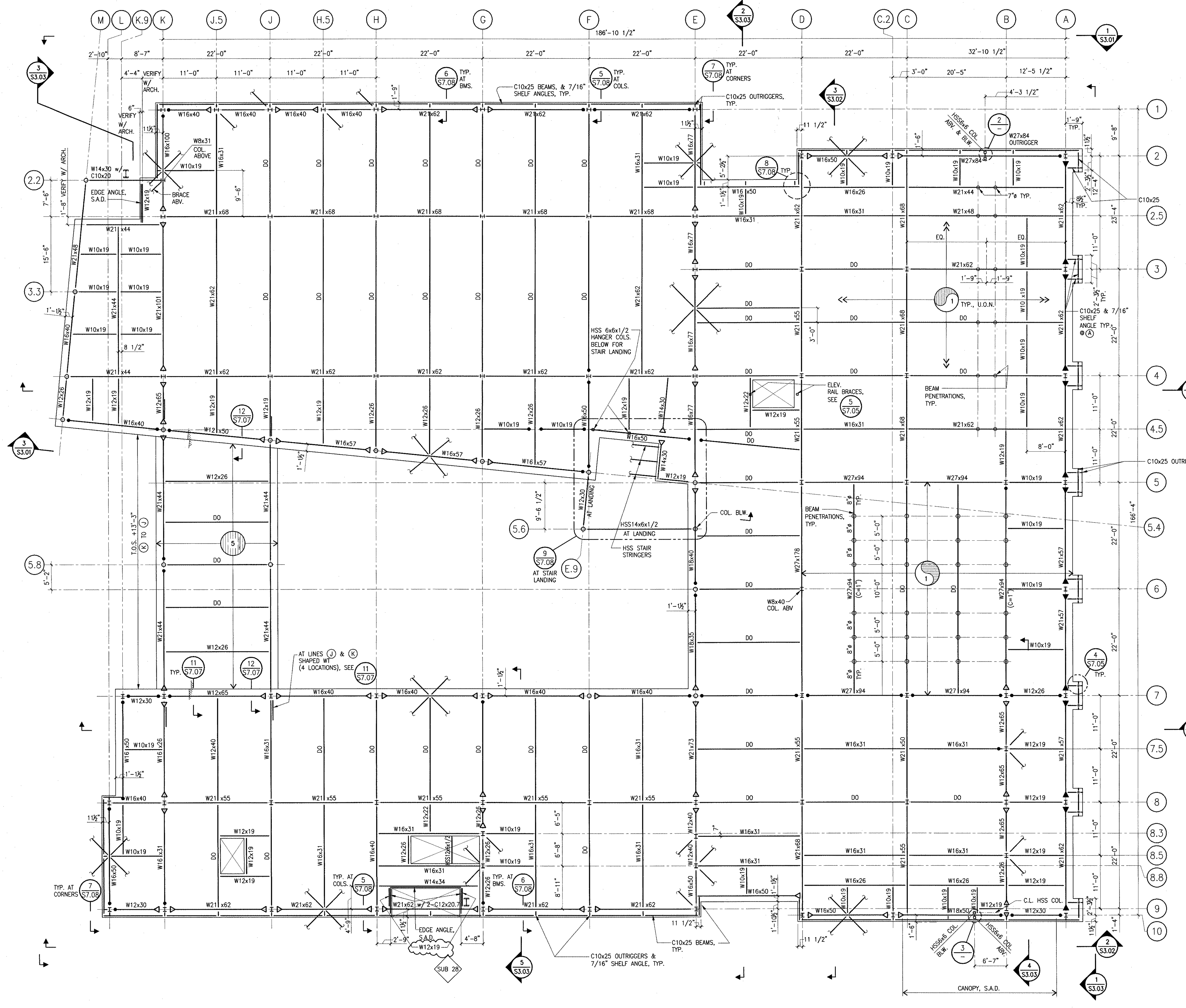
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REGISTERED PROFESSIONAL ENGINEER
No. S2431
Exp. 3/31/06
STRUCTURAL
STATE OF CALIFORNIA

Issue
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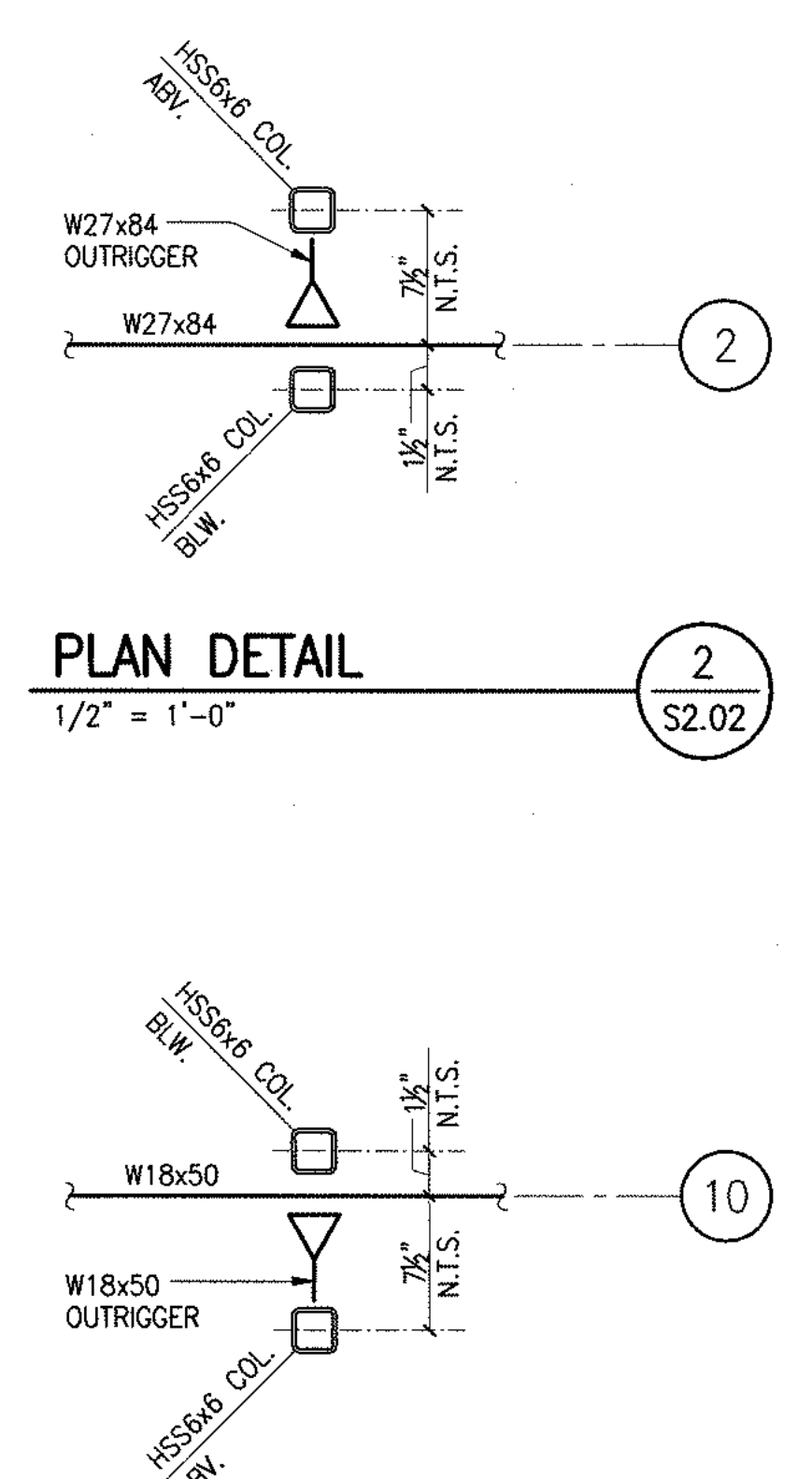
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Scale 1/8"=1'-0" date 2003.04.18
drawn by KRL/opev project number 1035
sheet number

S2.01



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 - EQUIPMENT PADS AND CURBS ARE DEFINED IN ARCH., MECH., ELECT., AND PLUMBING DRAWINGS. SEE 20/S5.01 AND 11/S7.02 FOR DETAILS.
 - SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ELECTRICAL BOXES TO BE CAST INTO THE SLAB.
 - DECKS SPANNING LESS THAN THREE SPANS REQUIRE SHORING.
 - AT EXPOSED W COLUMNS, SEE 17/S7.07 FOR ADDED STIFFENER PLATES AT THE SECOND FLOOR. S.A.D. FOR EXPOSED COLUMN LOCATIONS.
 - ALL 7/16" BENT PL. CLADDING SUPPORTS AND HSS SPACERS SHALL BE GALVANIZED.



SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

T.O.C. = +15'-0"
T.O.S. = (-7' 1/2")



SIMMONS
architecture
interiors
planning
graphic design

Cupertino Civic Center
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

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408 777 3333 F

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1600 Sacramento Inn Way
Suite 2
Sacramento, CA 95815
916 929 9290 T
916 929 9541 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

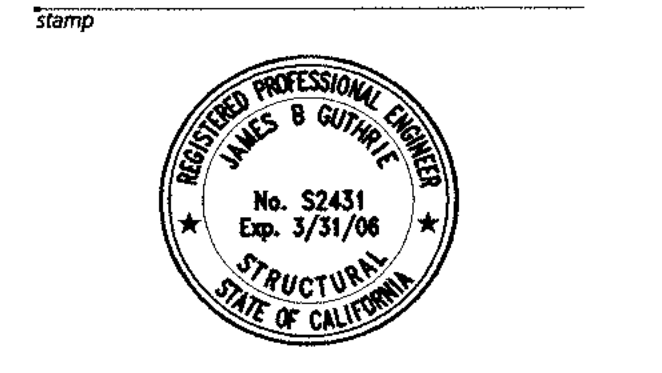
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San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

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343 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
415 433 5311 F

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370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
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Contract Documents



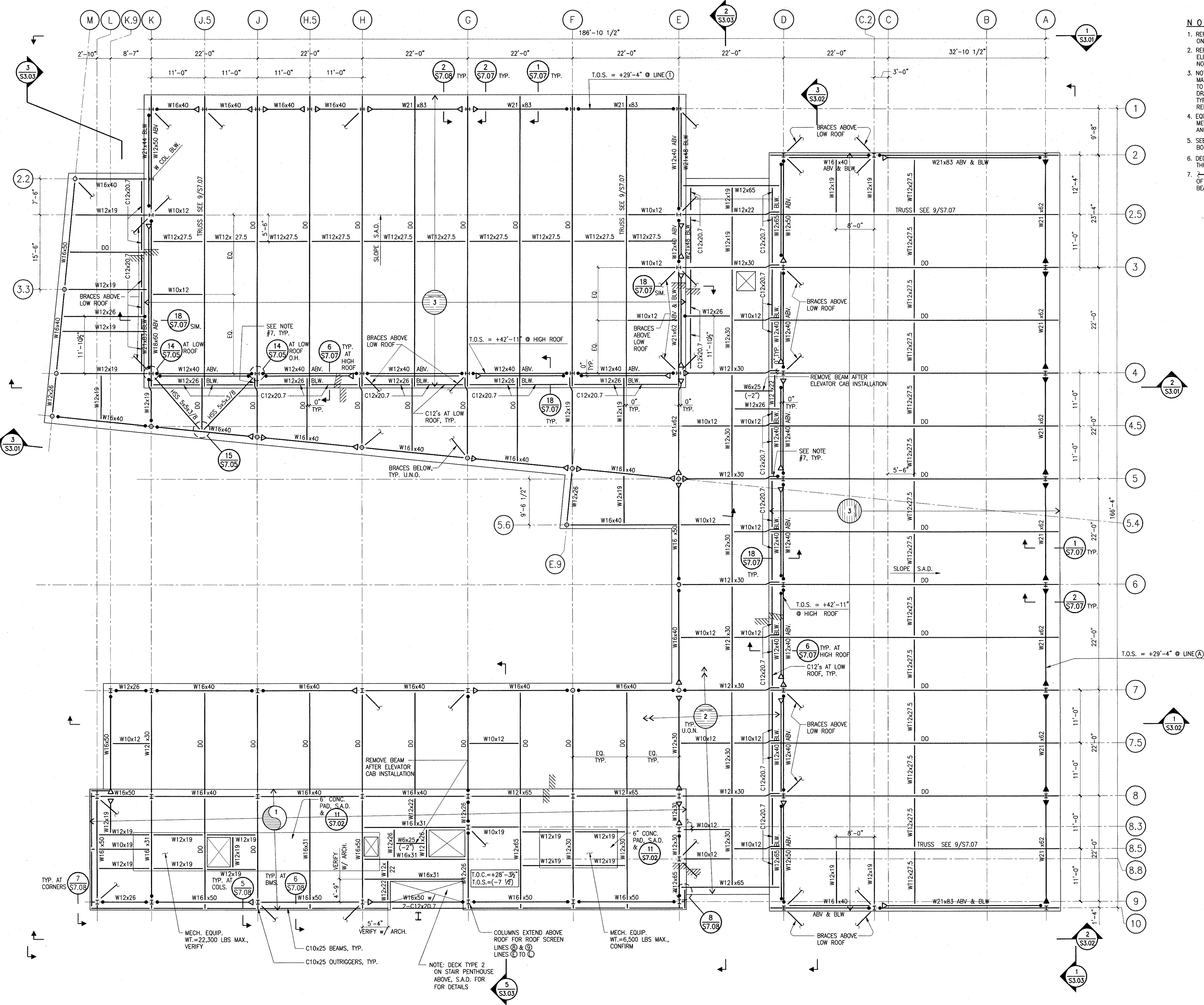
CA UPDATE SET

LIBRARY -
SECOND FLOOR
FRAMING PLAN

Scale: 1/8"=1'-0" date: 2003.04.18
drawn by: KRL/pez project number: 1035
sheet number:

\$2.02

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 - SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ELECTRICAL BOXES TO BE CAST INTO THE SLAB.
 - DECKS WITH CONCRETE FILL SPANNING LESS THAN THREE SPANS REQUIRE SHORING.
 - INDICATES FRAMING TO THE C.L. OF THE COLUMN AT DIFFERENT ELEVATIONS. THE BEAM IS NOT "KINKED".

ROOF FRAMING PLAN

1/8" = 1'-0"

T.O.S. = +27'-8" U.O.N. **1** S2.03



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Associates
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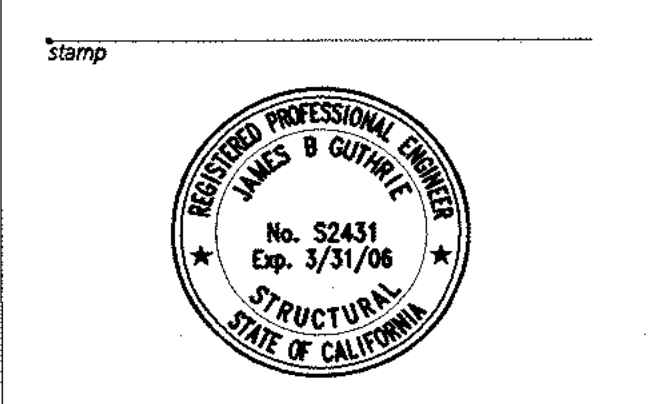
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LIBRARY -
ROOF FRAMING
PLAN

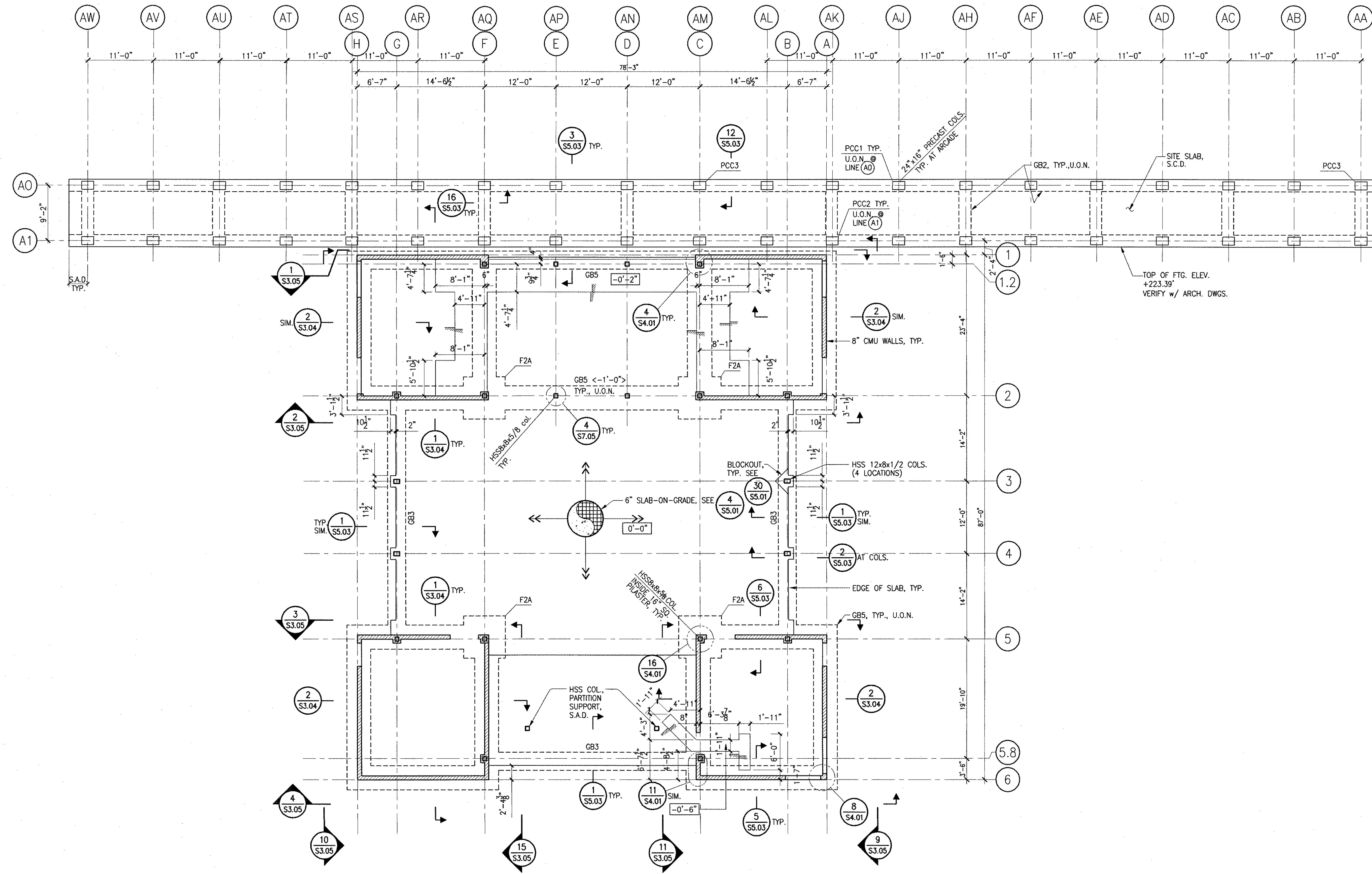
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Drawn by: KRL/lopez project number: 1035
Sheet number:

\$2.05

15. SEE NOTE 17 ON S2.01.

NOTES:

1. REFER TO GENERAL NOTES, ABBREVIATIONS AND LEGEND ON SHEET S0.01
2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, DEPRESSIONS, CURBS, SLOPES, AND INFORMATION NOT NOTED.
3. NOT ALL OPENINGS SHOWN ON PLANS. ADDITIONAL OPENINGS MAY BE REQUIRED BUT ARE NOT SHOWN ON PLANS. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATIONS OF OTHER OPENINGS. SEE TYPICAL DETAIL SHEETS FOR ADDITIONAL FRAMING AND REINFORCING REQUIRED AT MISCELLANEOUS OPENINGS.
4. EQUIPMENT PADS AND CURBS ARE DEFINED IN ARCH., MECH., ELECT., AND PLUMBING DRAWINGS. SEE 20/S5.01 AND 11/S7.02 FOR DETAILS.
5. FOR SLAB ON GRADE CONSTRUCTION JOINTS, SEE 14/S5.01 AND SEE SPECS.
6. SEE S5.02 FOR GRADE BEAM AND FOOTING SCHEDULES AND DETAILS.
7. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ELECTRICAL BOXES TO BE CAST INTO THE SLAB.
8. SEE CIVIL DRAWINGS FOR BUILDING PAD INFORMATION.
9. FOOTINGS ARE CENTERED ON WALLS, U.O.N.
10. SEE 15/S5.01 FOR TRENCH DETAIL AT ELECTRICAL DUCTS. S.A.D. FOR LOCATIONS.
11. SEE SHEET S3.05 FOR WALL AND FRAMING ELEVATIONS.
12. SEE SHEET S5.03 FOR ARCADE PRECAST CONCRETE DETAILS.
13. SEE SHEET S4.01 FOR TYPICAL CMU DETAILS.
14. SEE SHEET S5.01 FOR TYPICAL CONCRETE DETAILS.

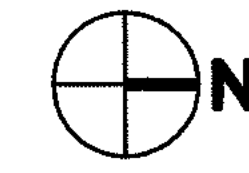


FOUNDATION PLAN

1/8" = 1'-0"

T.O.C. = 226'-5 1/2"
DATUM 0'-0"

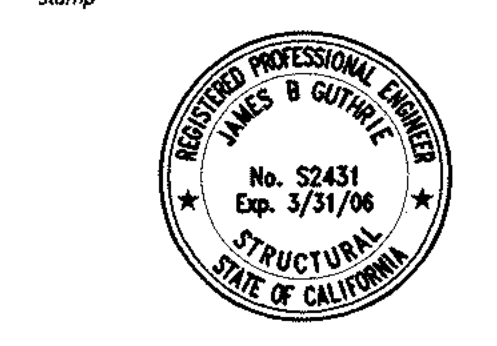
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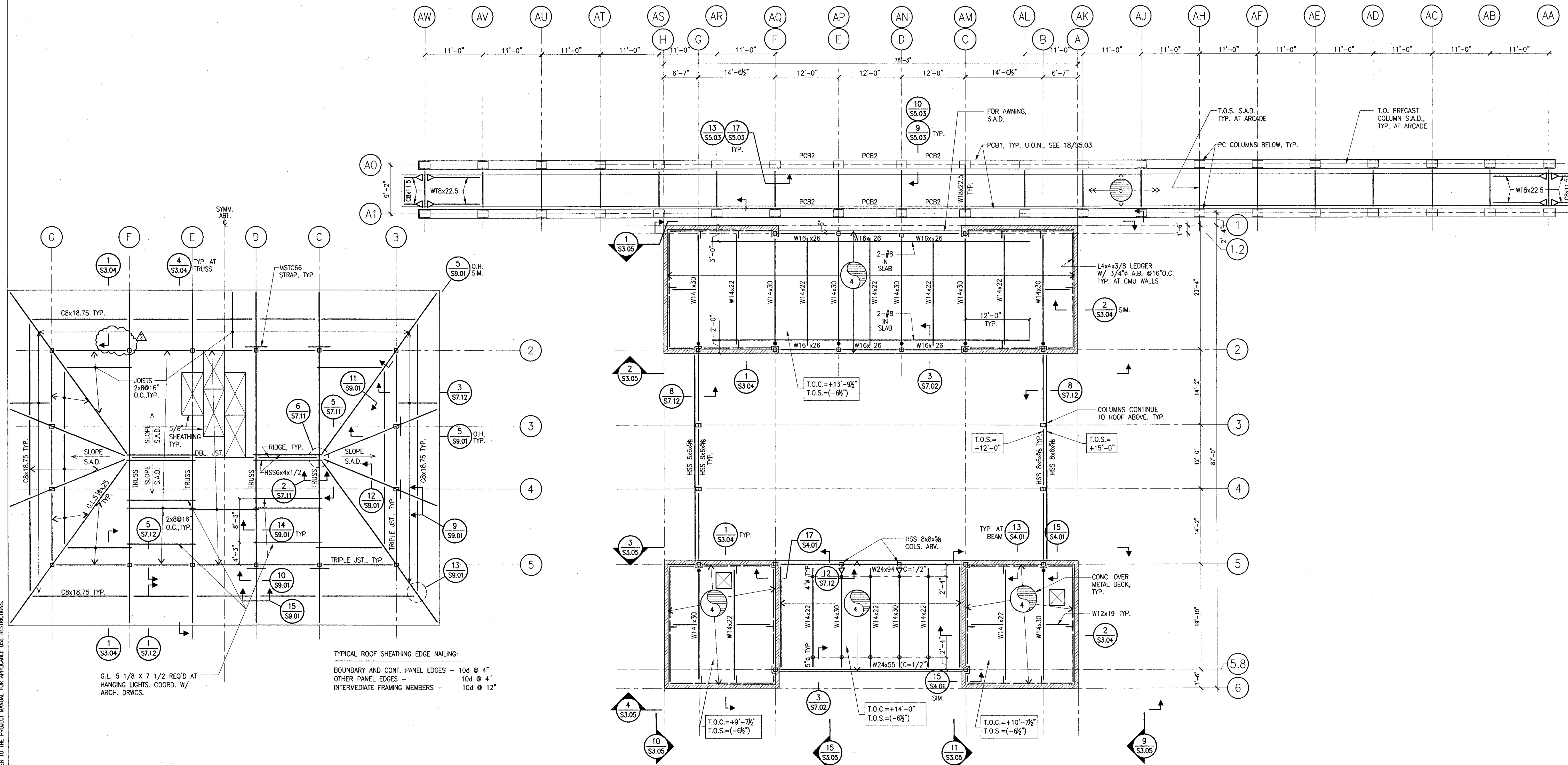
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COMMUNITY HALL - FOUNDATION PLAN

scale 1/8"=1'-0" date 2003.04.18
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 5. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ELECTRICAL BOXES TO BE CAST INTO THE SLAB.
 6. SEE SHEET S3.05 FOR WALL AND FRAMING ELEVATIONS.
 7. SEE 13/S9.01 FOR STRAPS REQUIRED AT SLOPED ROOF HIPS.



TYPICAL ROOF SHEATHING EDGE NAILING:
 BOUNDARY AND CONT. PANEL EDGES - 10d @ 4"
 OTHER PANEL EDGES - 10d @ 4"
 INTERMEDIATE FRAMING MEMBERS - 10d @ 12"

G.L. 5 1/8 X 7 1/2 REQ'D AT HANGING LIGHTS. COORD. W/ ARCH. DRWS.

HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

2
S2.05



LOW ROOF FRAMING PLAN

1/8" = 1'-0"

1
S2.05



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Stamp

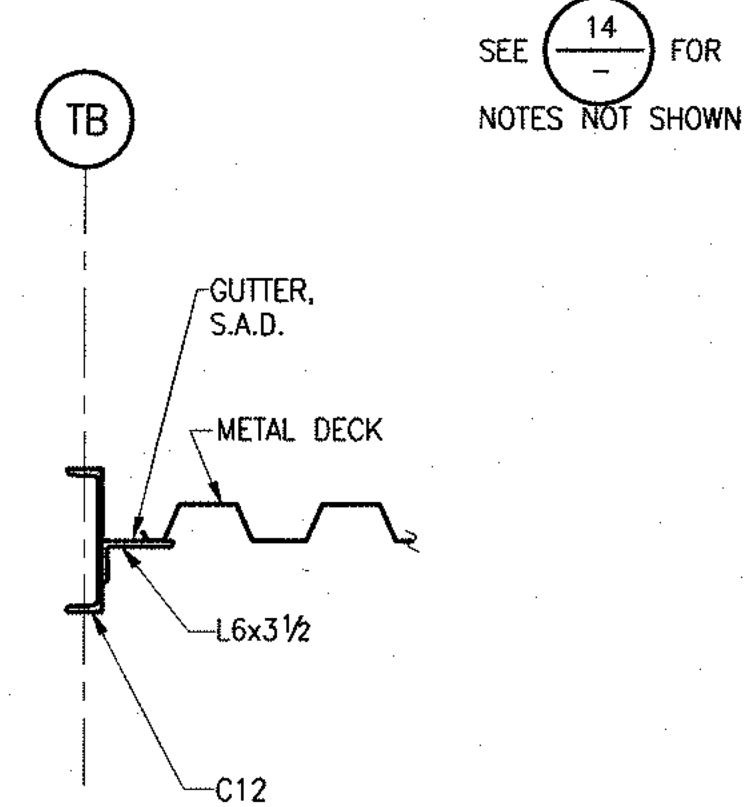
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COMMUNITY HALL - HIGH & LOW ROOF FRAMING PLAN

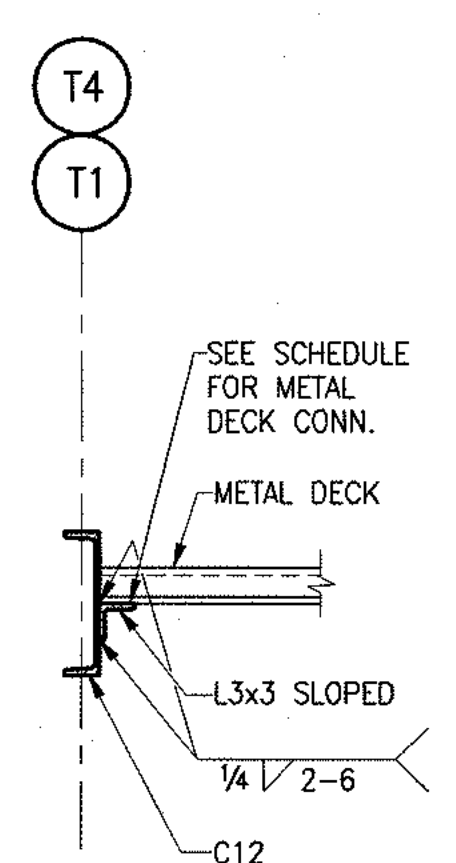
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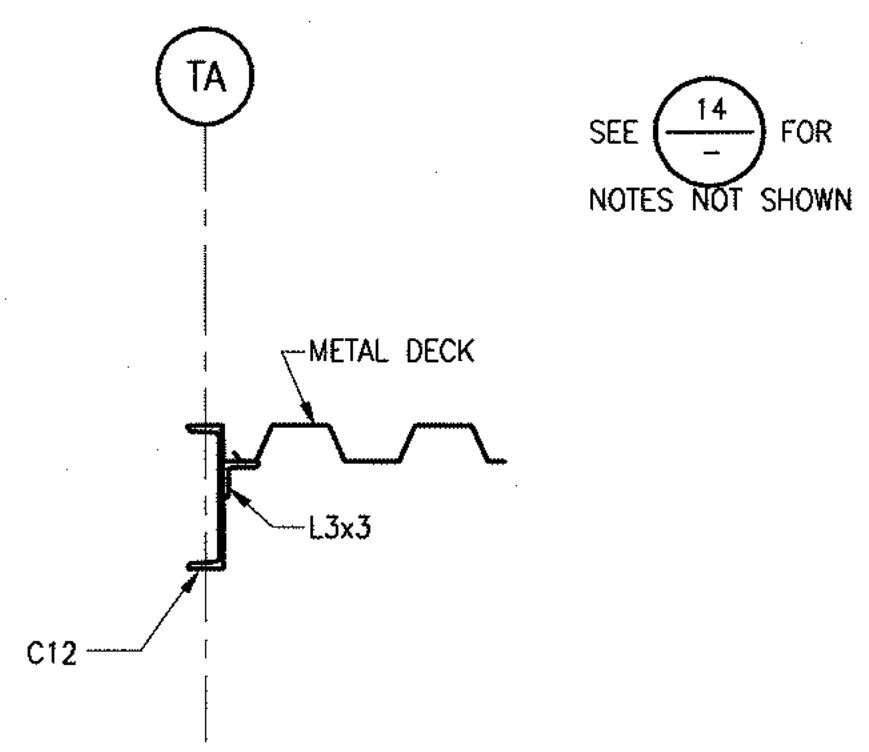
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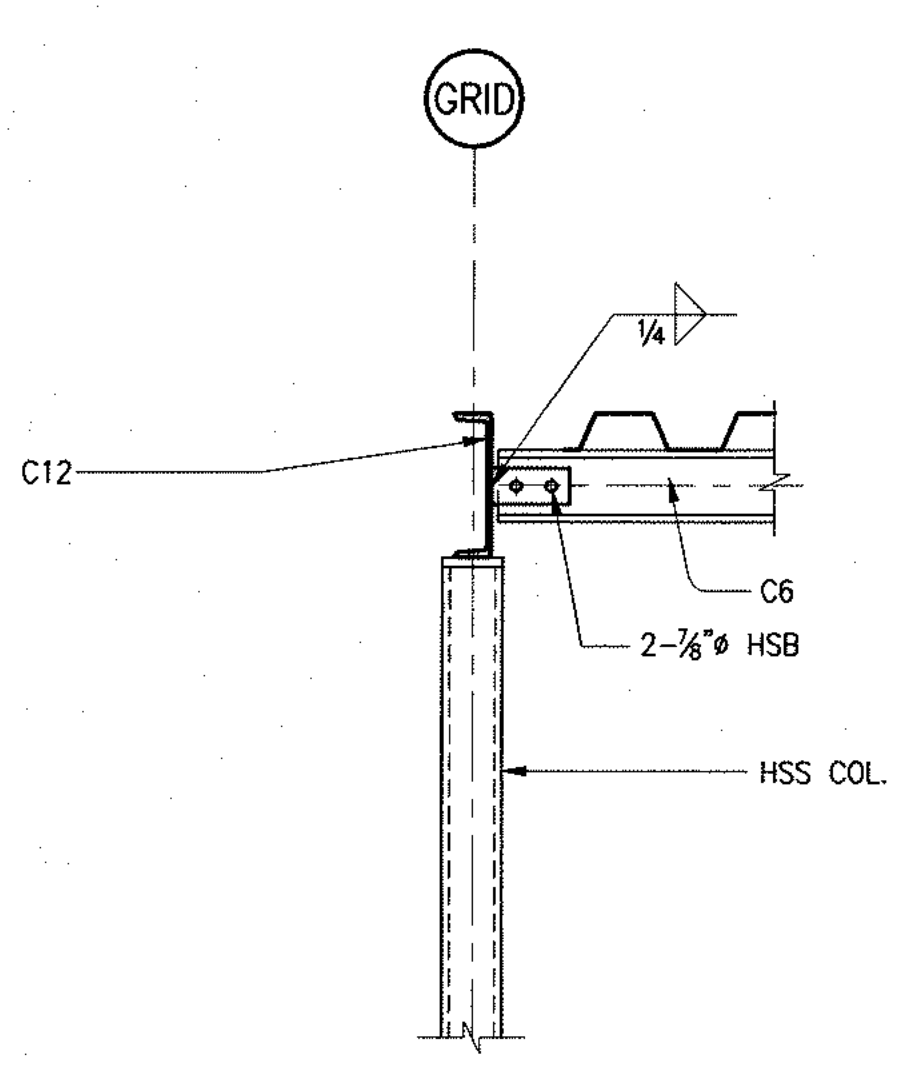
DETAIL 13
3/4"=1'-0" S2.06



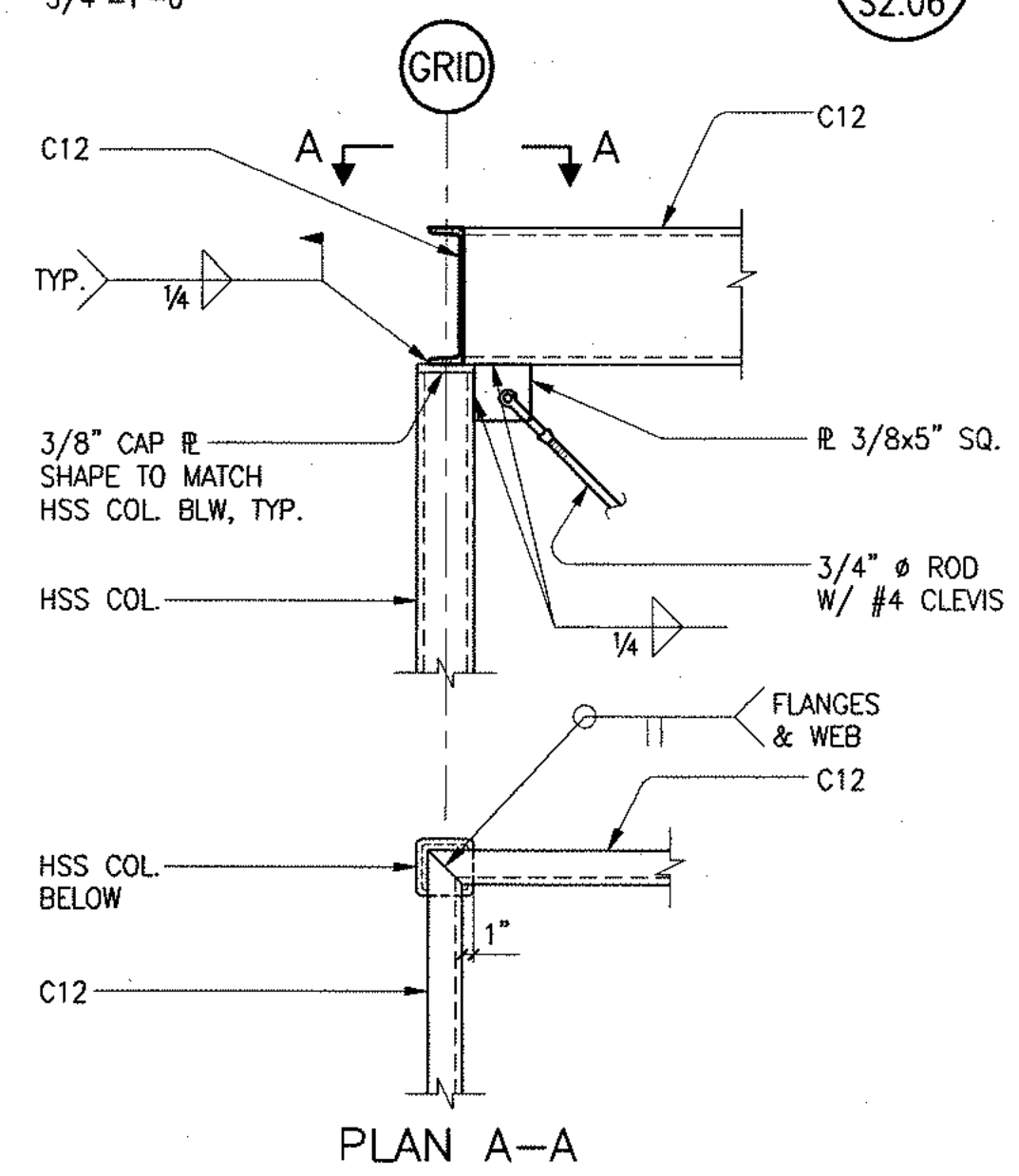
DETAIL 14
3/4"=1'-0" S2.06



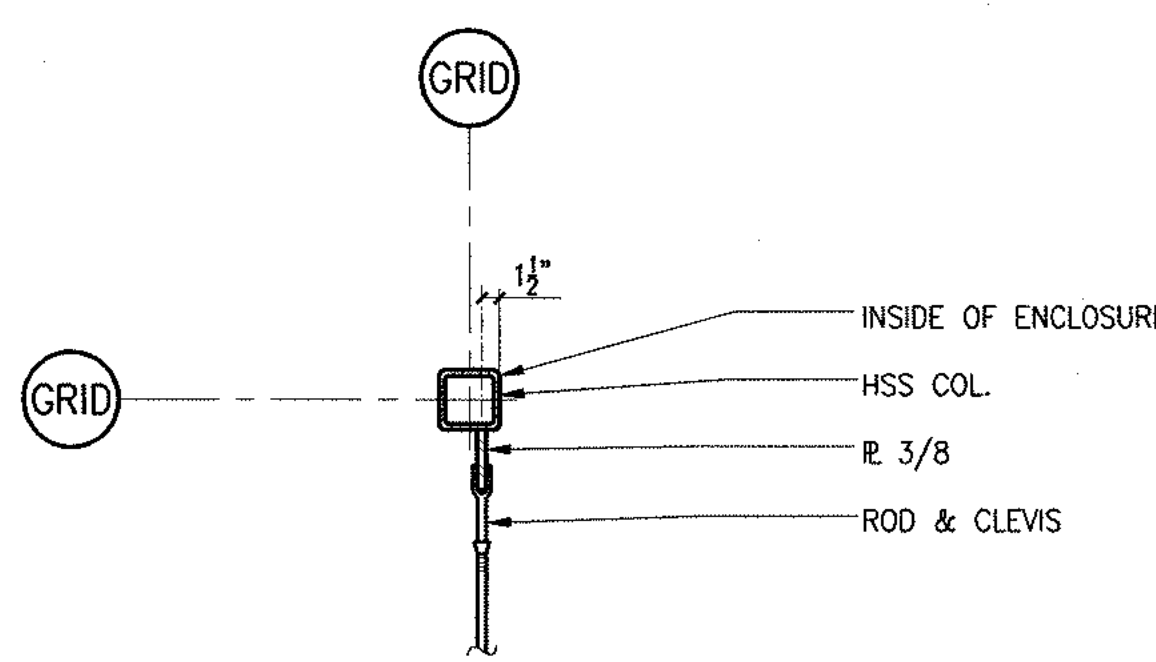
DETAIL 15
3/4"=1'-0" S2.06



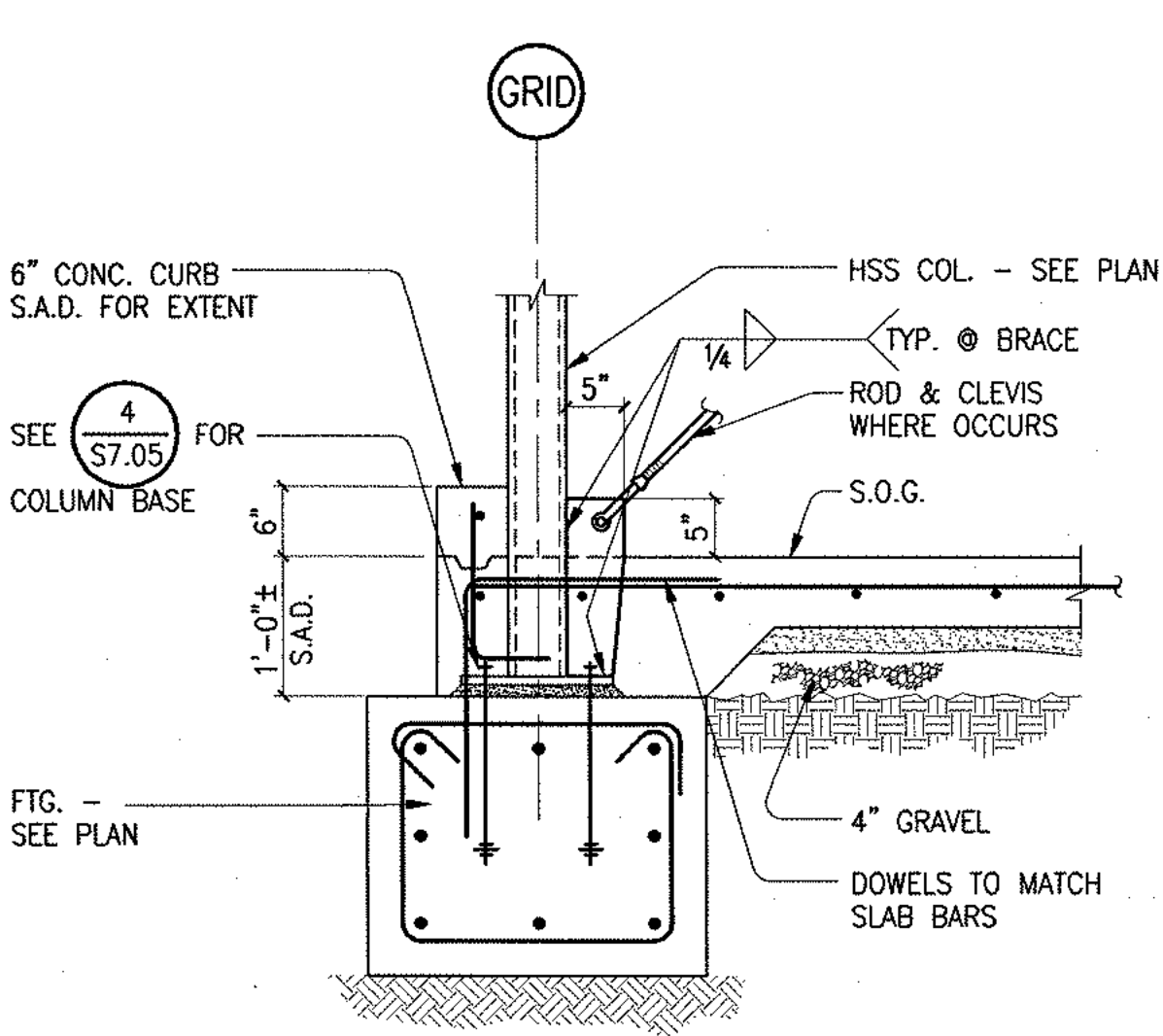
DETAIL 9
3/4"=1'-0" S2.06



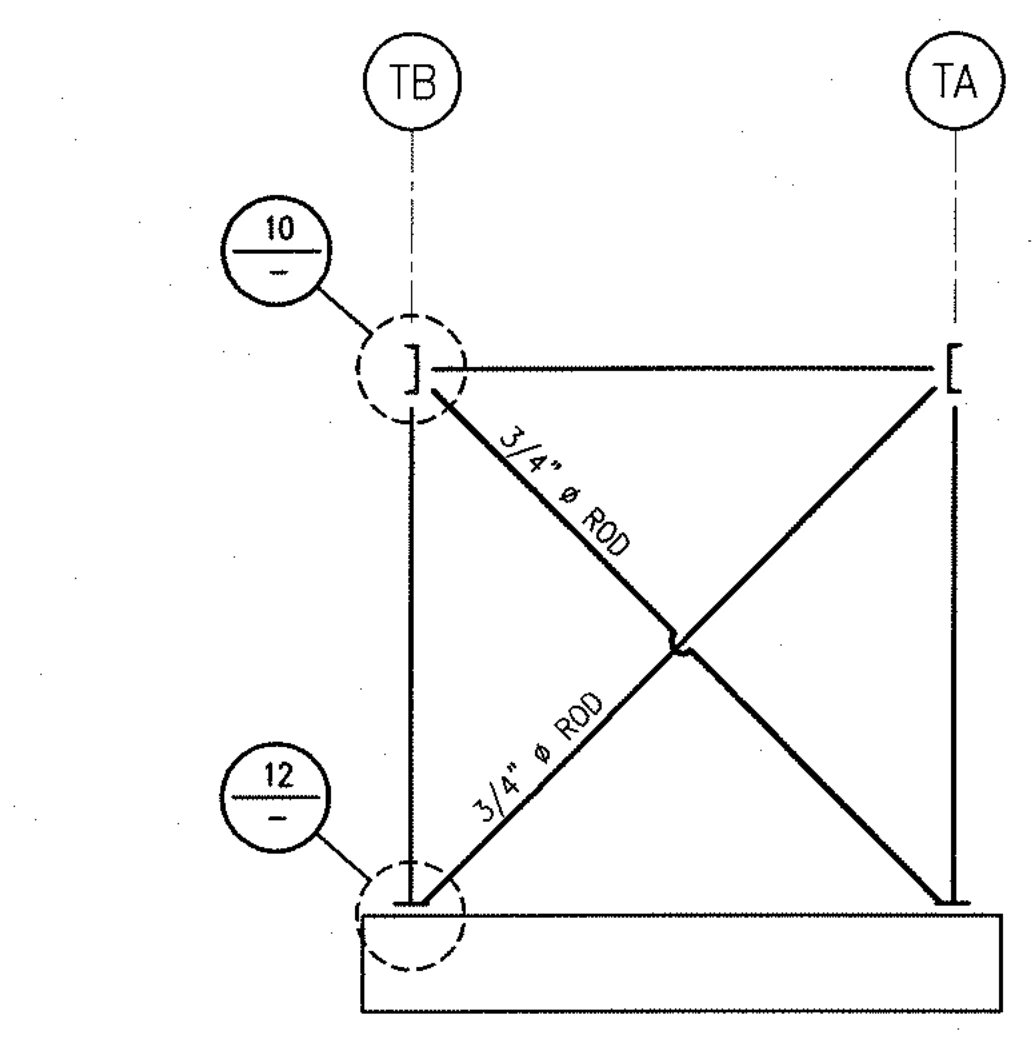
DETAIL 10
3/4"=1'-0" S2.06



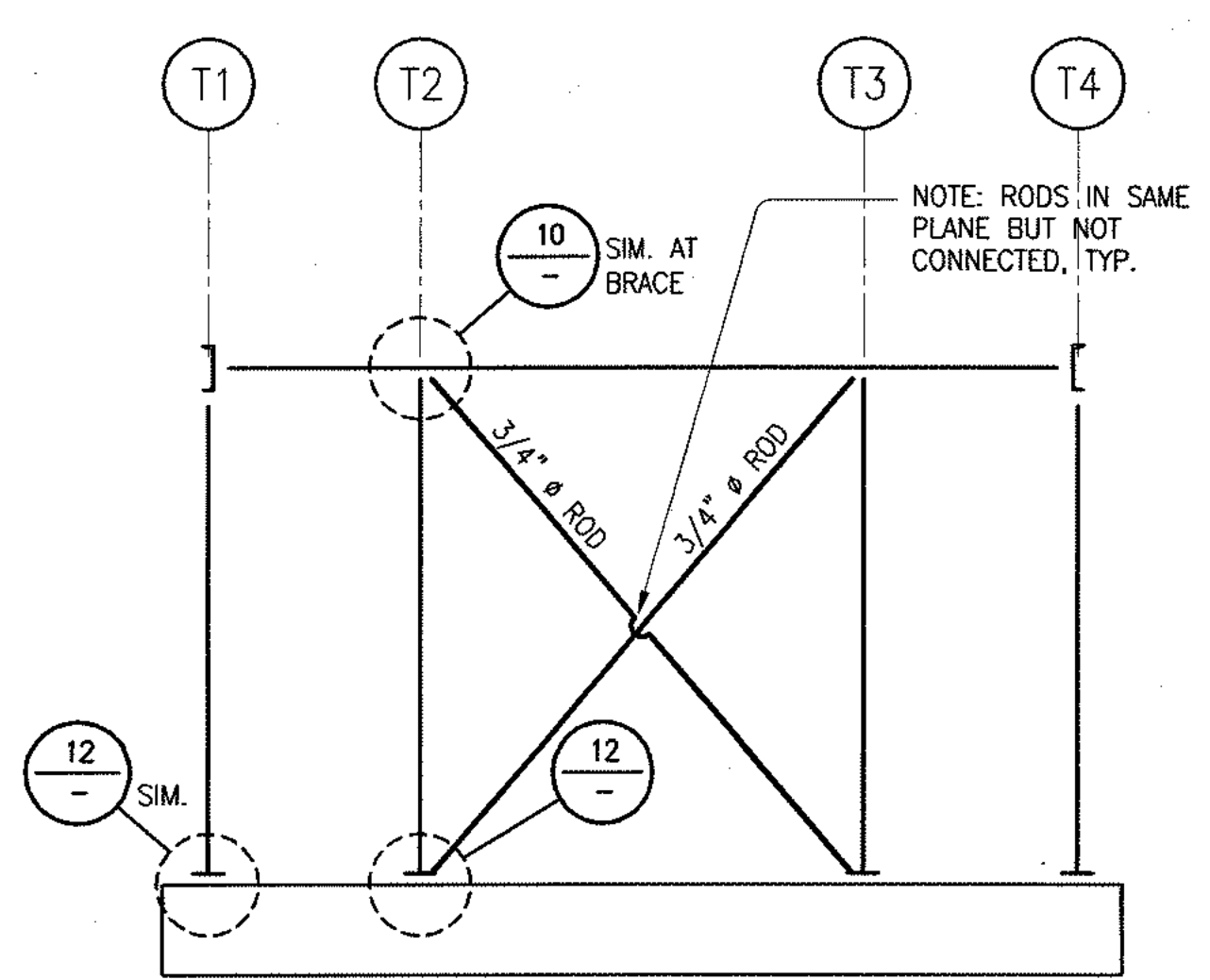
PLAN DETAIL 11
3/4"=1'-0" S2.06



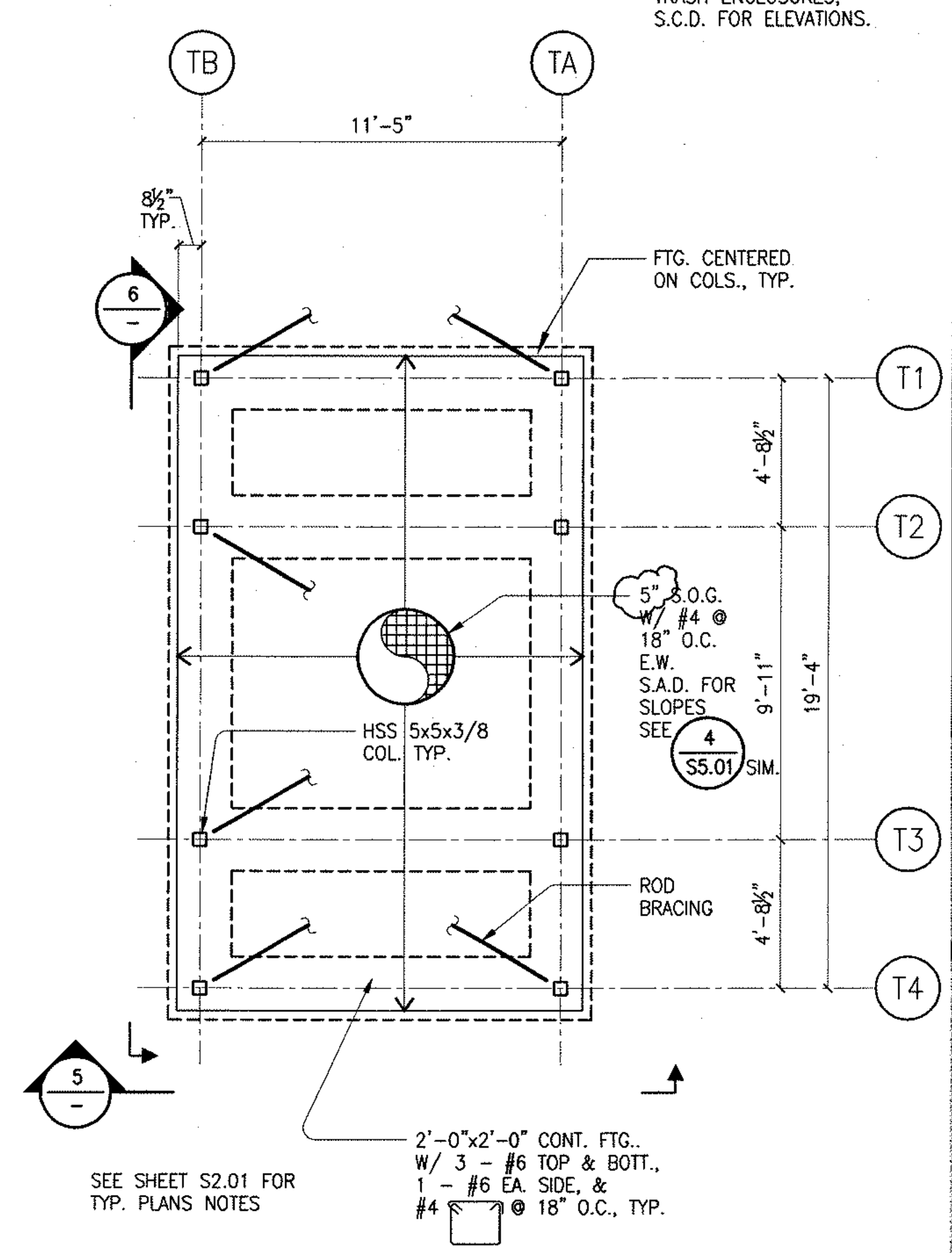
DETAIL 12
3/4"=1'-0" S2.06



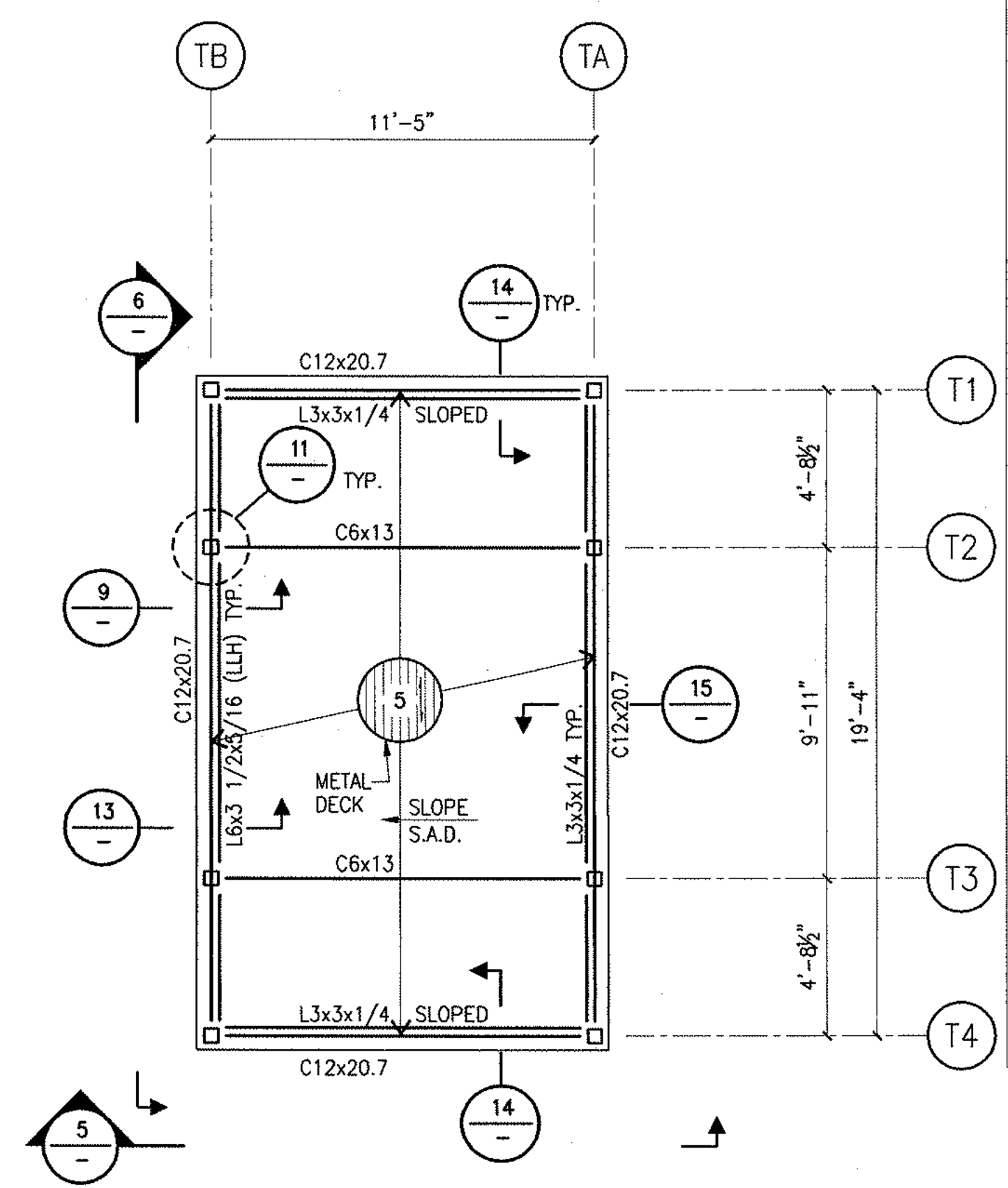
ELEV. LINE T4 (LINE T1 SIM.) 5
1/4"=1'-0" S2.06



ELEV. LINE TB (LINE TA SIM.) 6
1/4"=1'-0" S2.06



FOUNDATION PLAN 2
1/4"=1'-0" S2.06



ROOF FRAMING PLAN 4
1/4"=1'-0" S2.06

NOTE: S.A.D. FOR LOCATION AND ORIENTATION OF TRASH ENCLOSURES. S.C.D. FOR ELEVATIONS.

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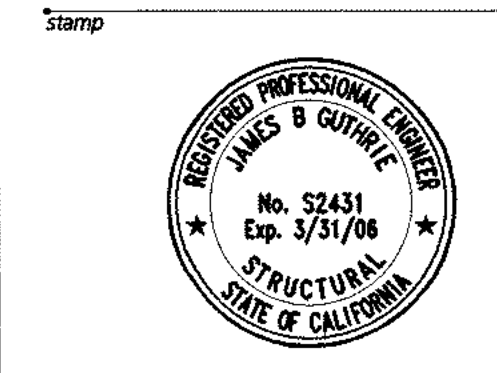
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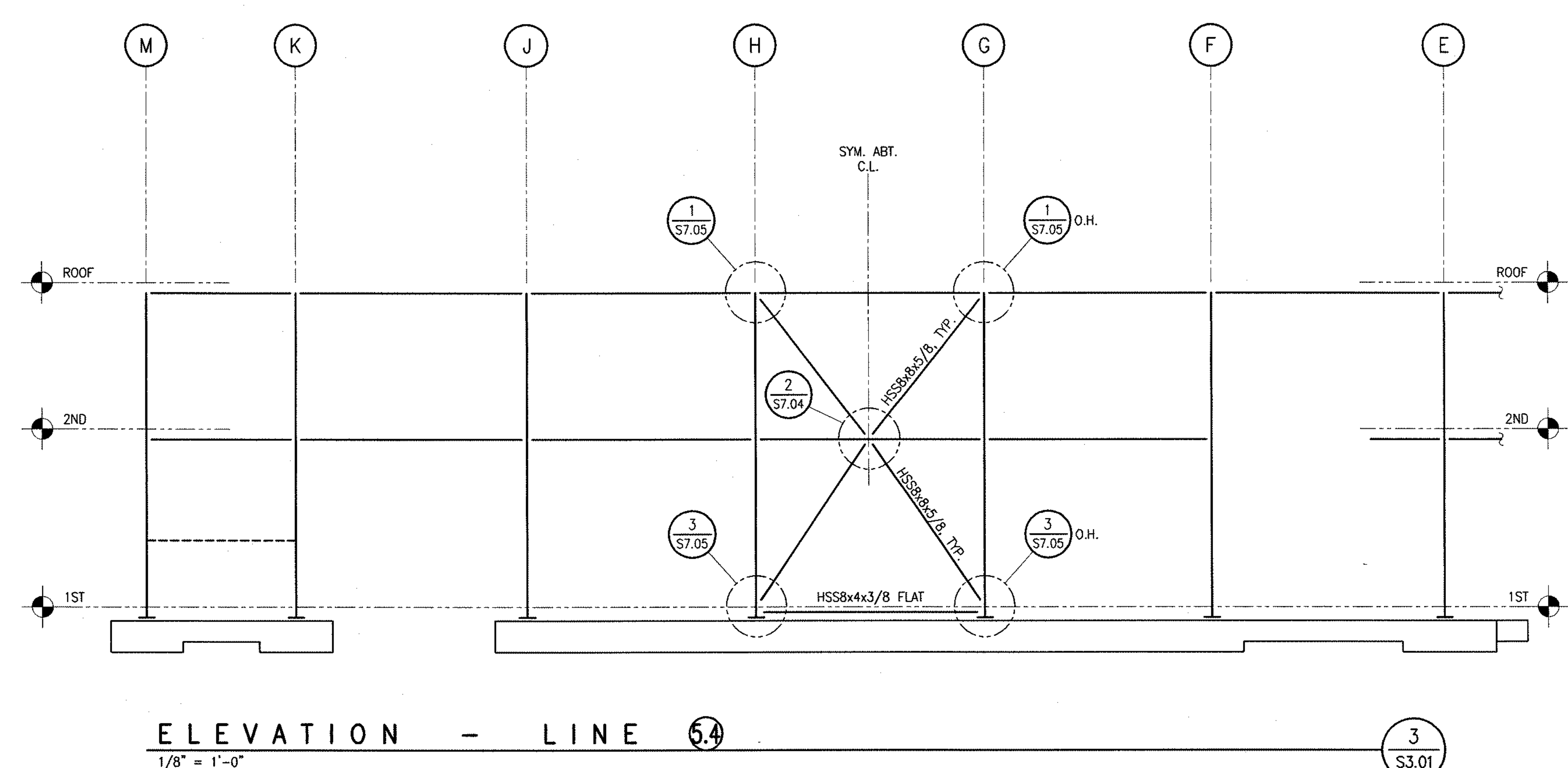
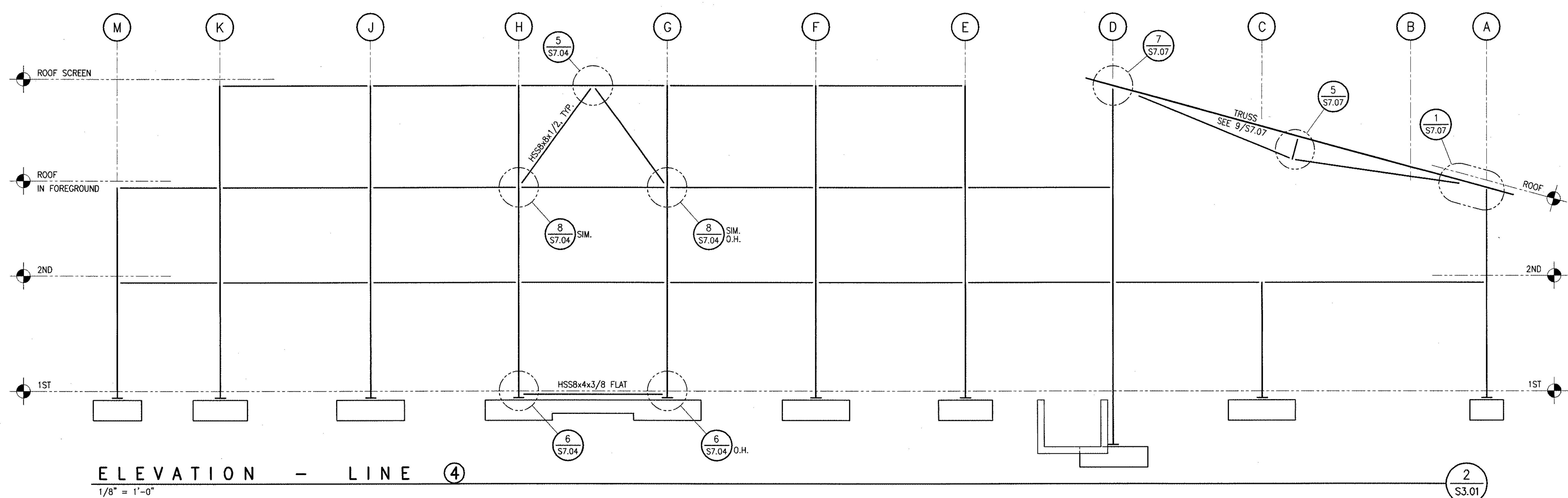
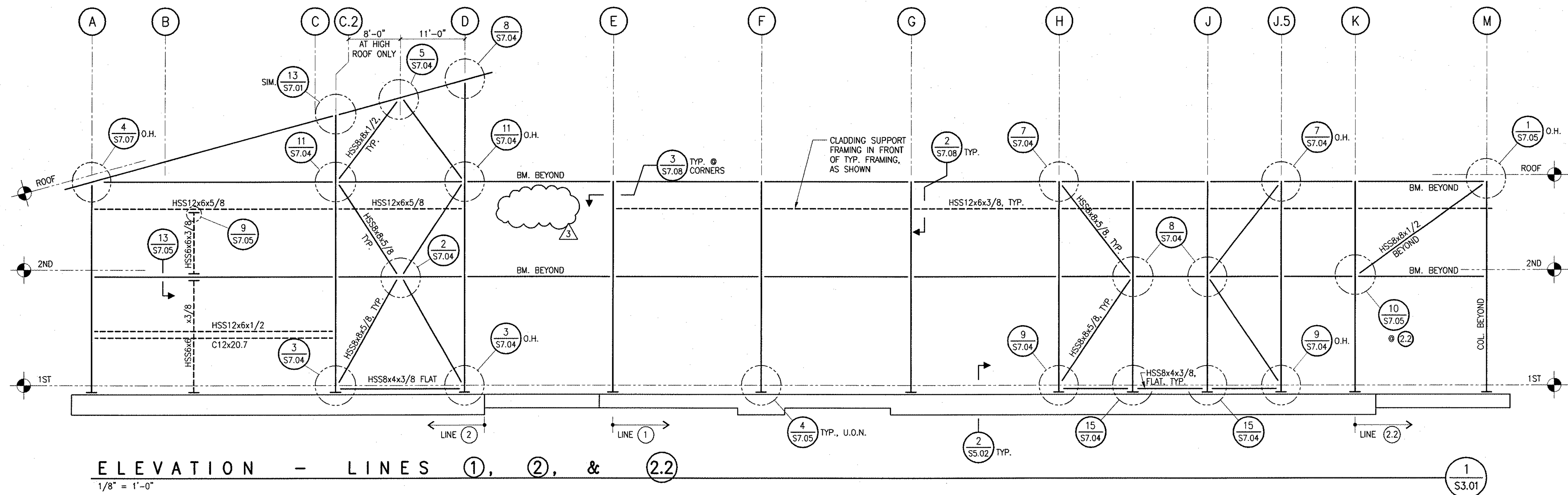
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TRASH ENCLOSURE
DETAILS

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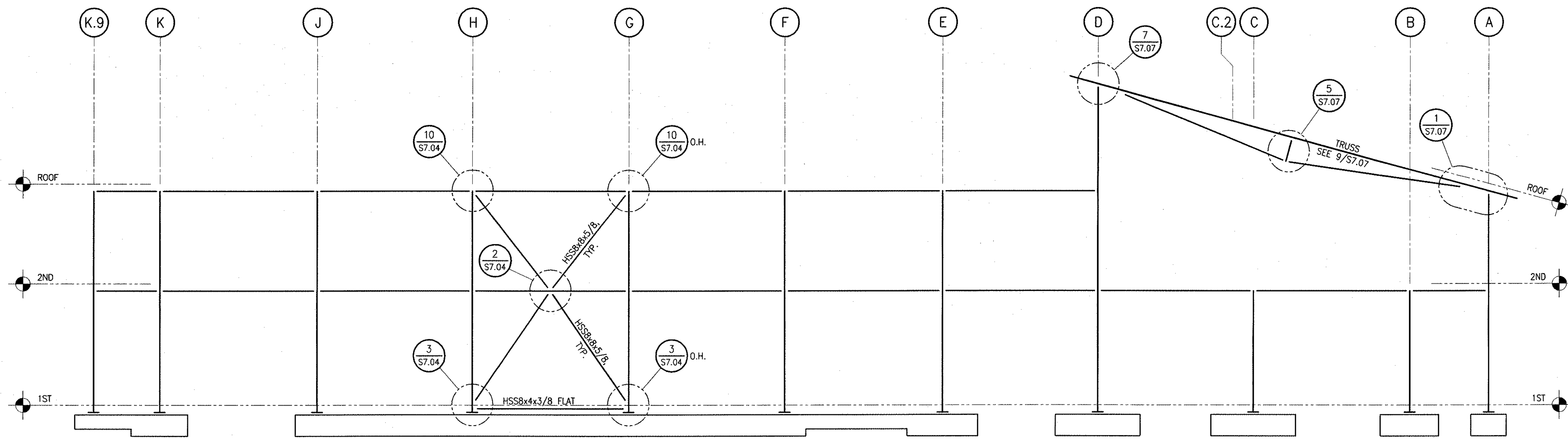
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 sheet number:

\$3.01

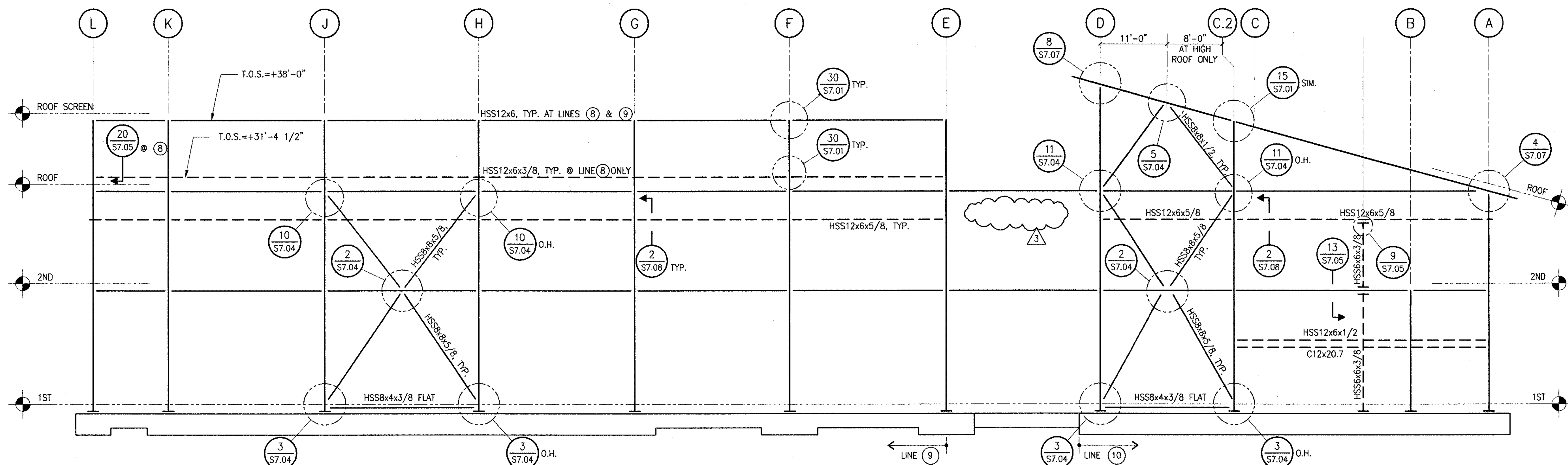


ELEVATION - LINE 7

1/8" = 1'-0"

1

S3.02

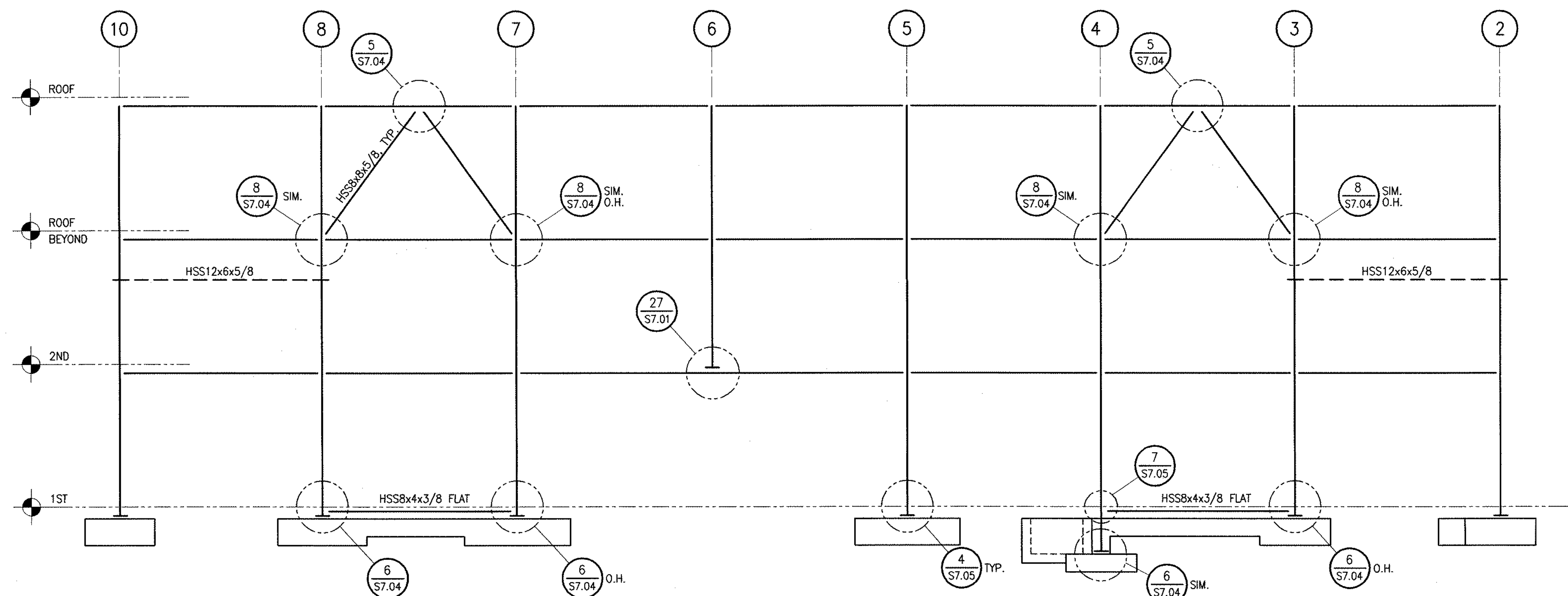


ELEVATION - LINE 9 AND 10

1/8" = 1'-0"

2

S3.02



ELEVATION - LINE D

1/8" = 1'-0"

3

S3.02

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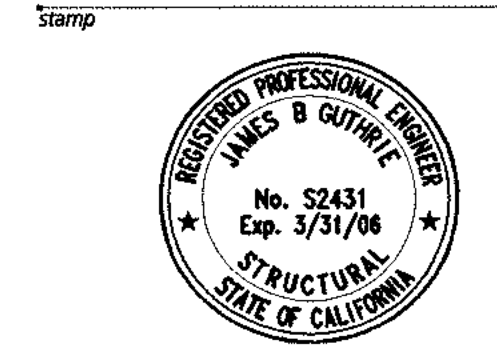
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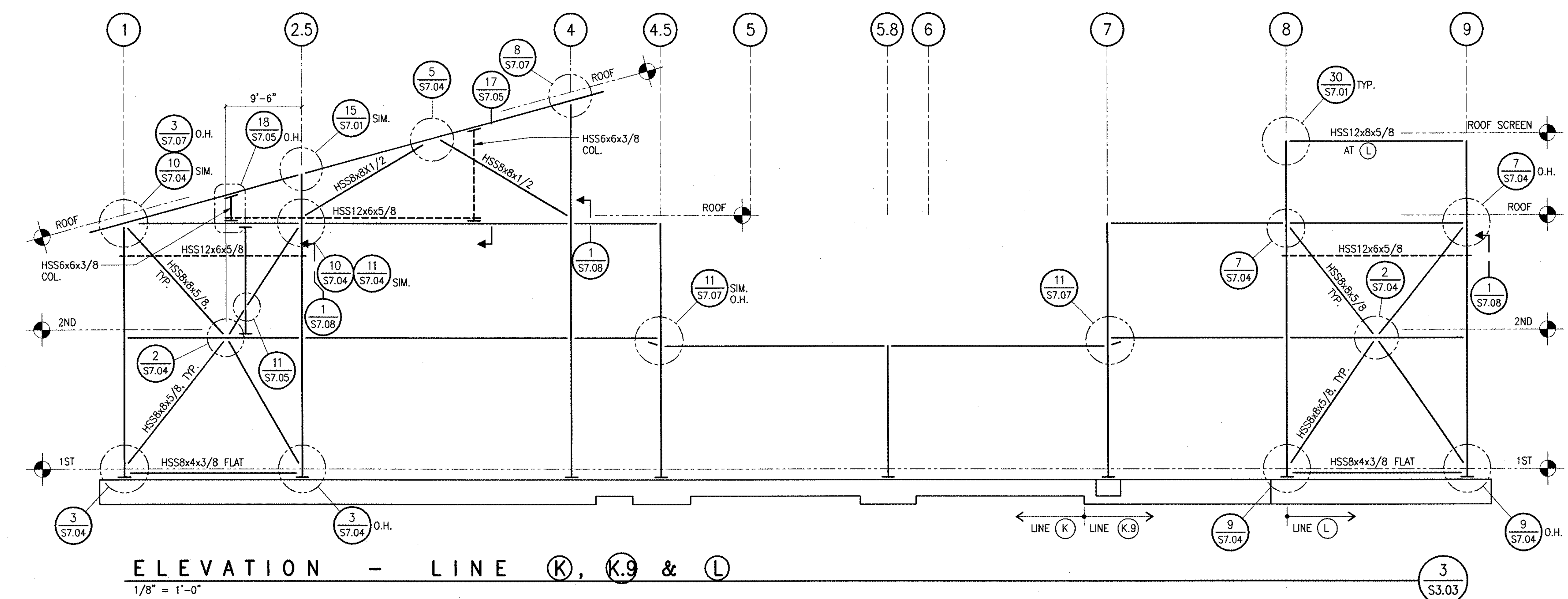
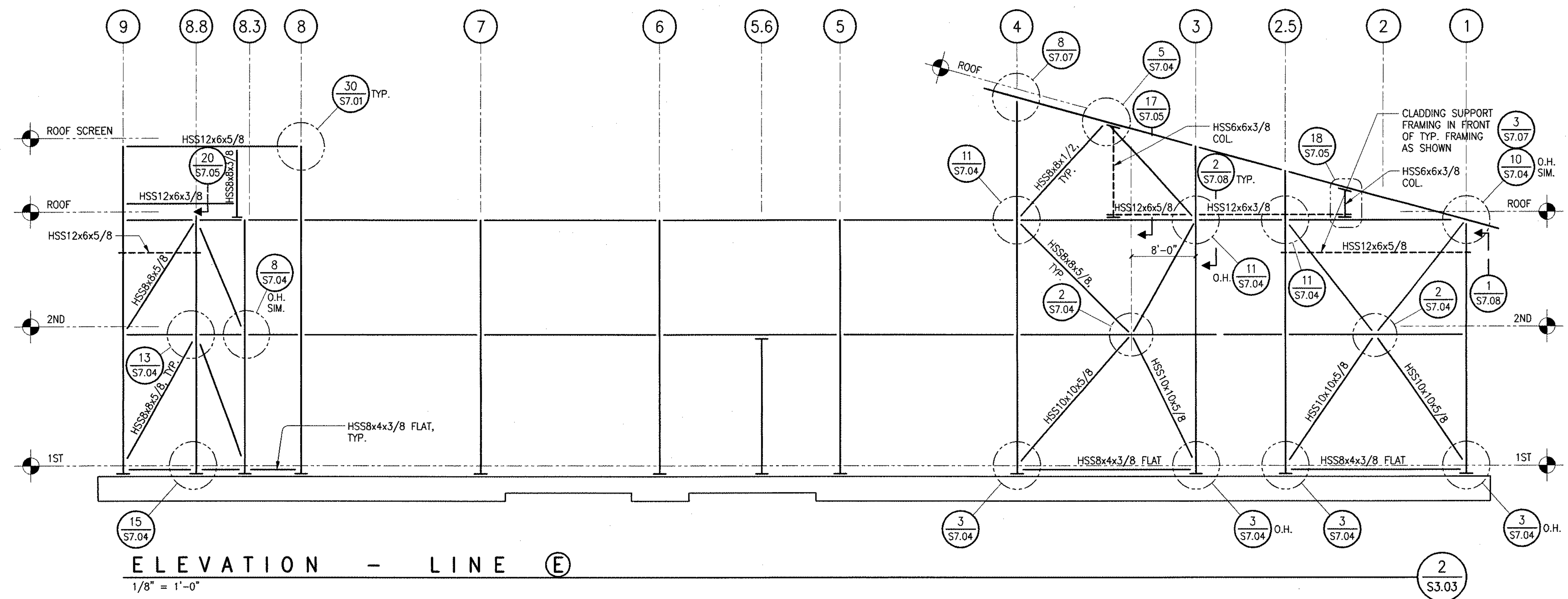
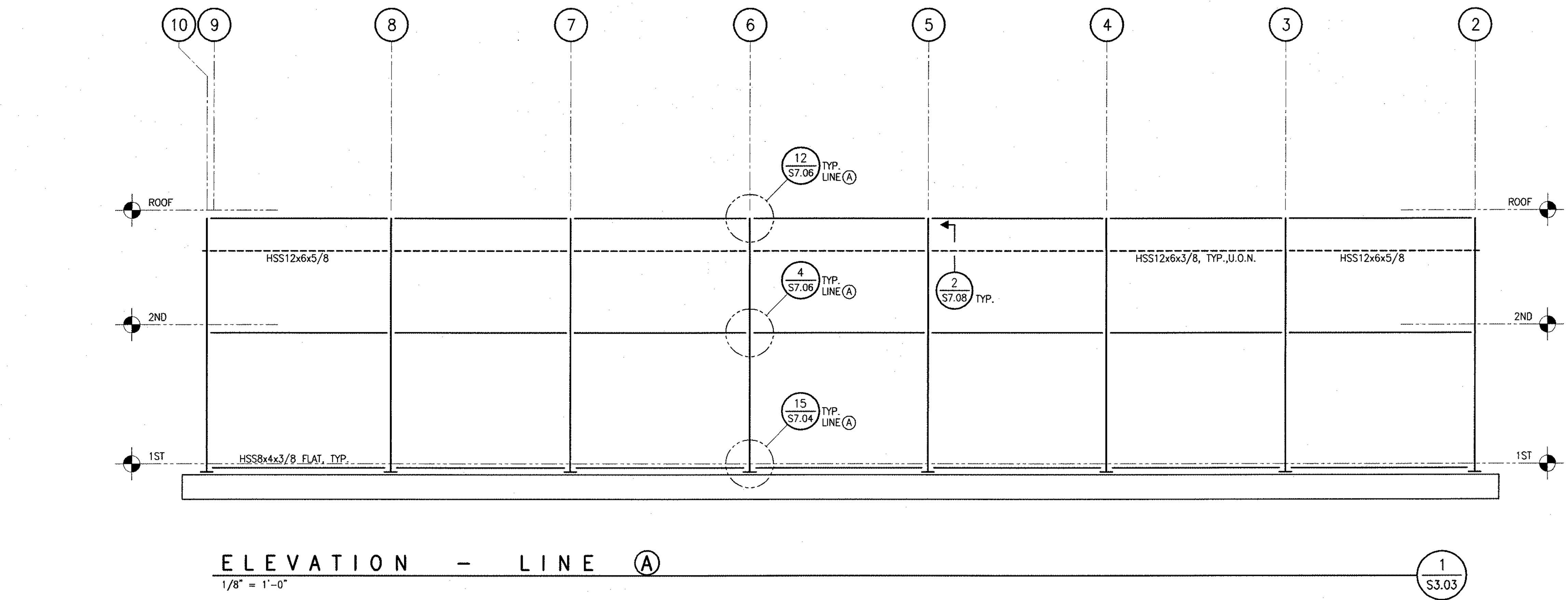
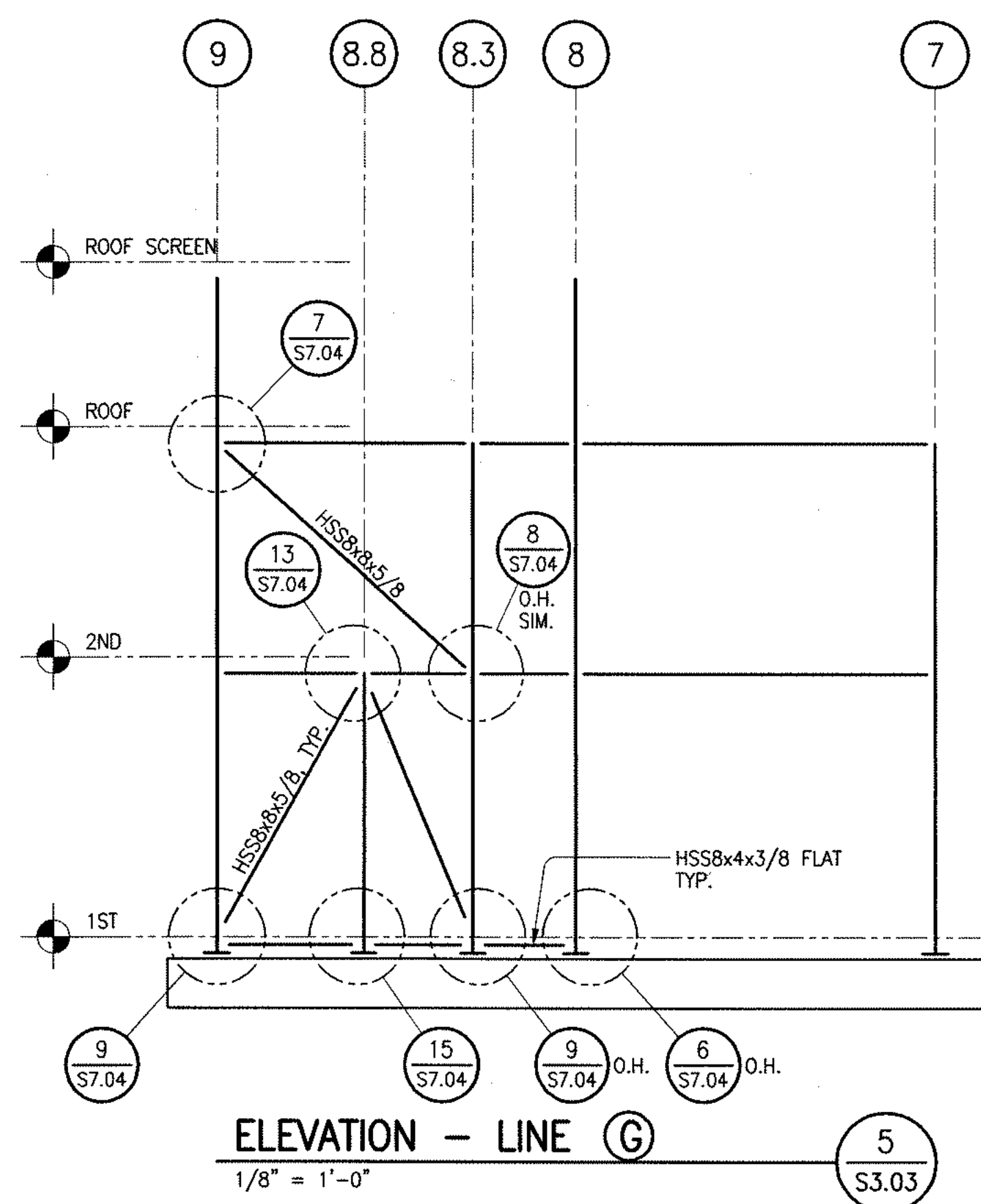
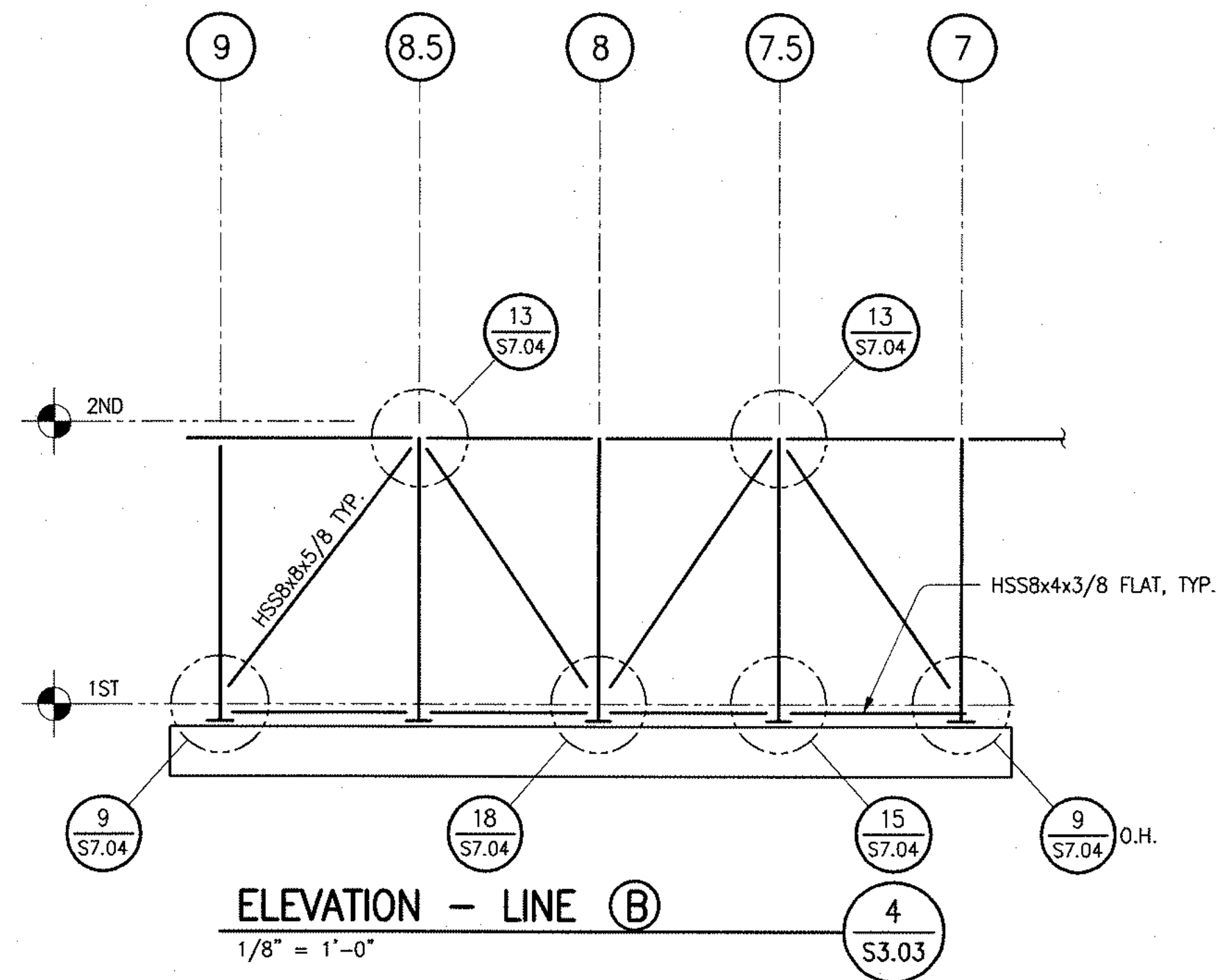


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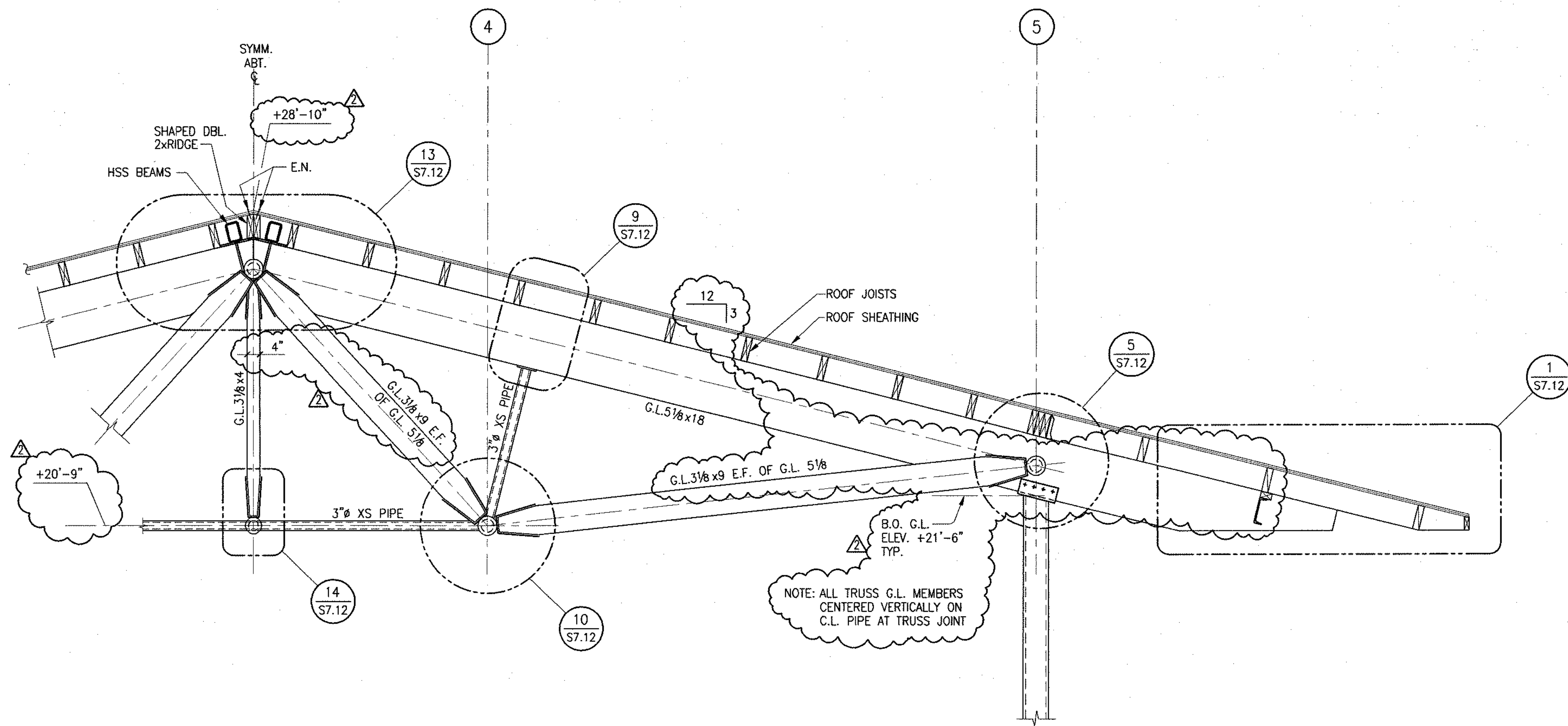
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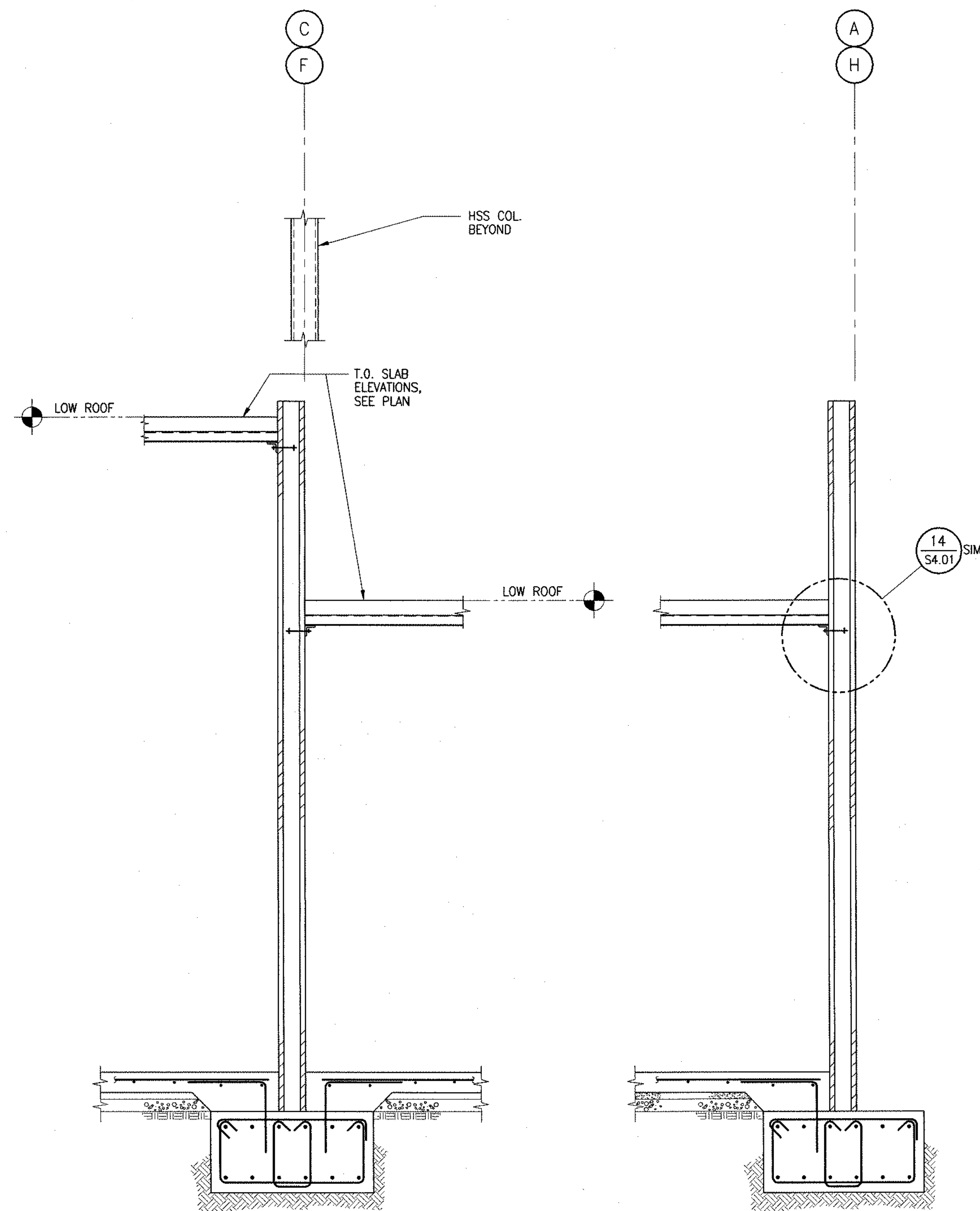
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TRUSS ELEVATION

1/2"=1'-0"

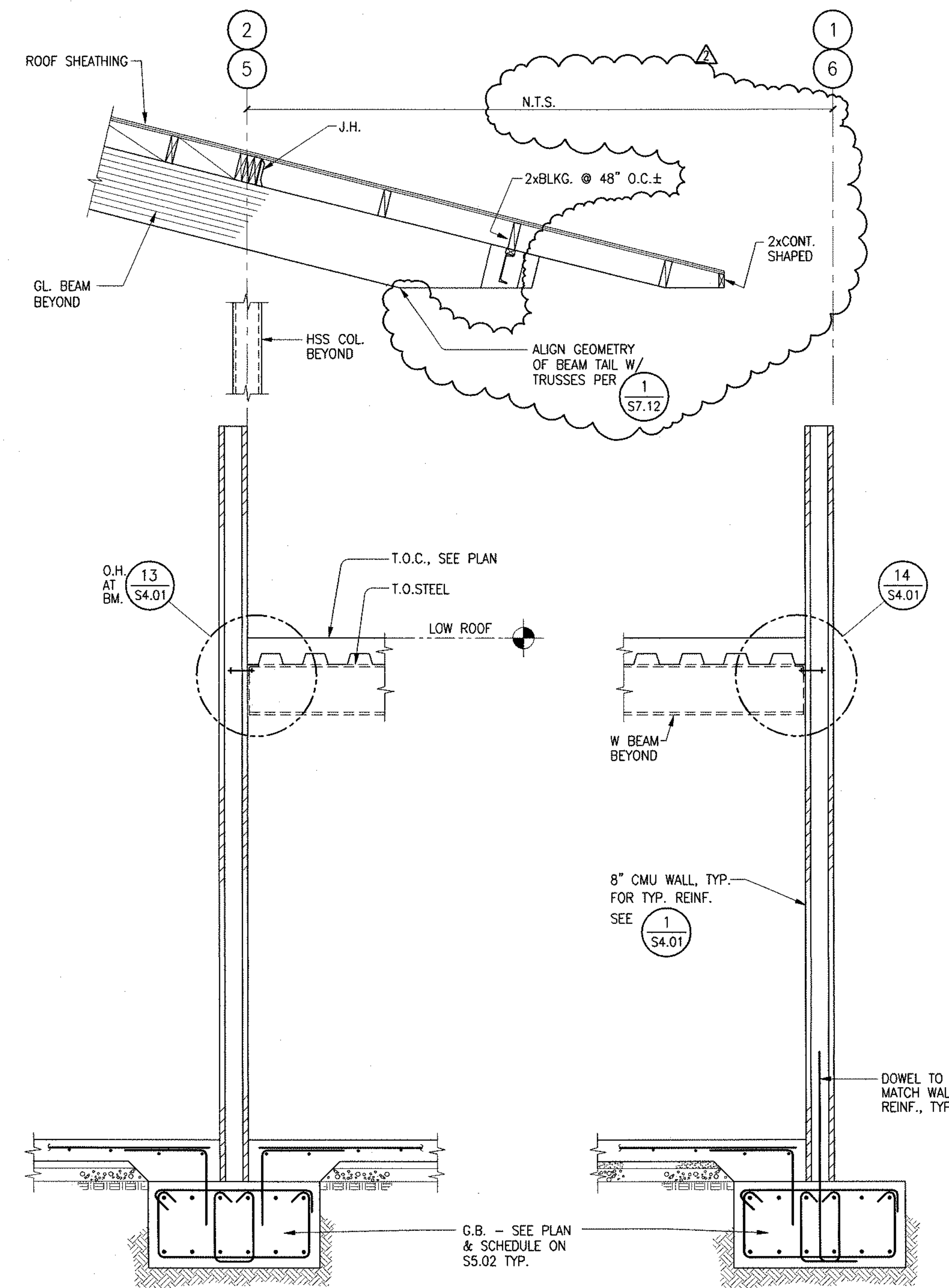
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S3.04



SECTION

1/2"=1'-0"

2
S3.04



SECTION

1/2"=1'-0"

1
S3.04

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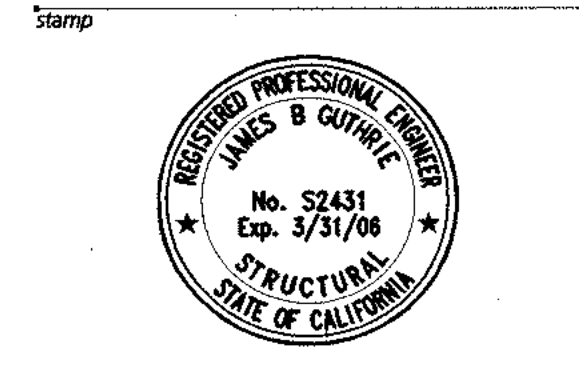
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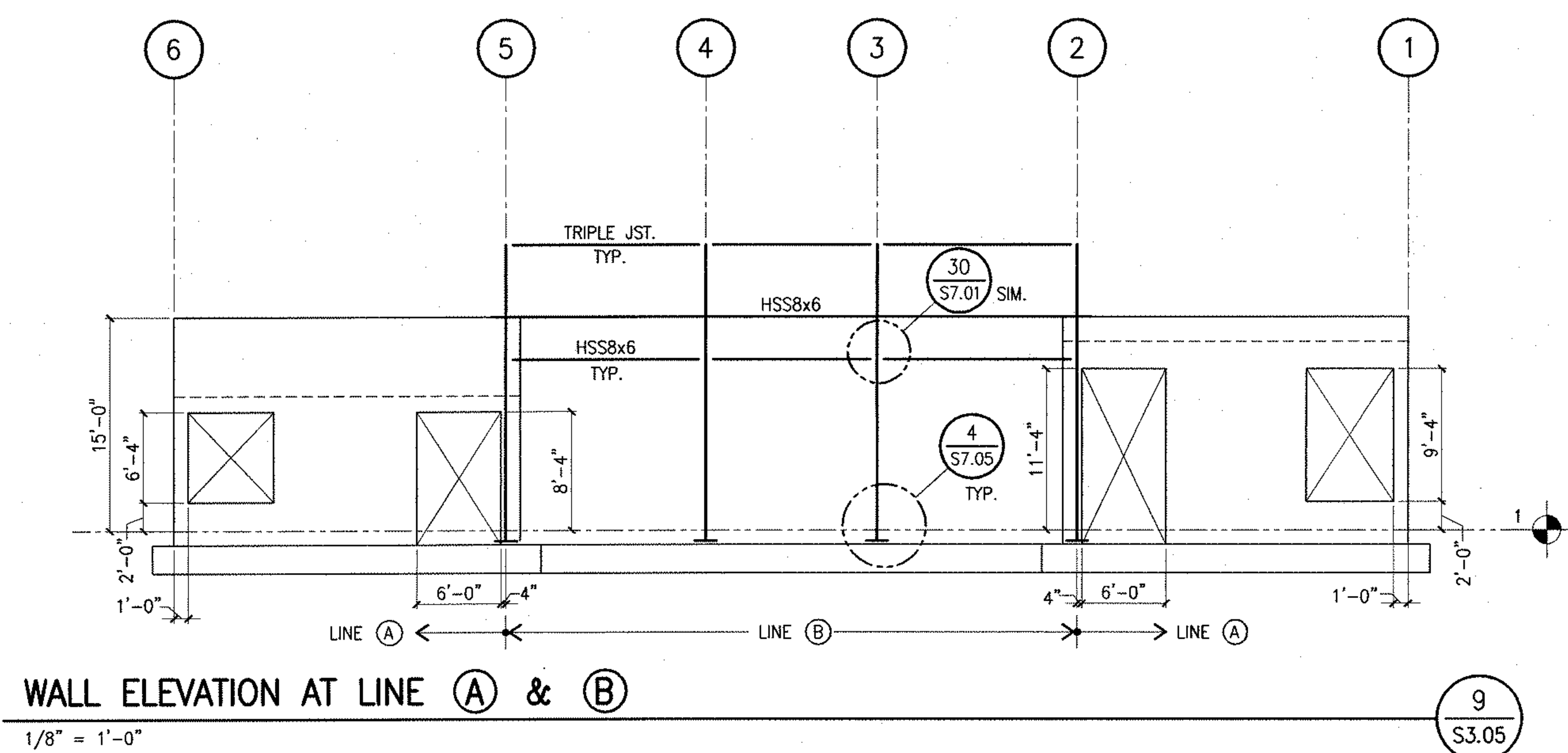


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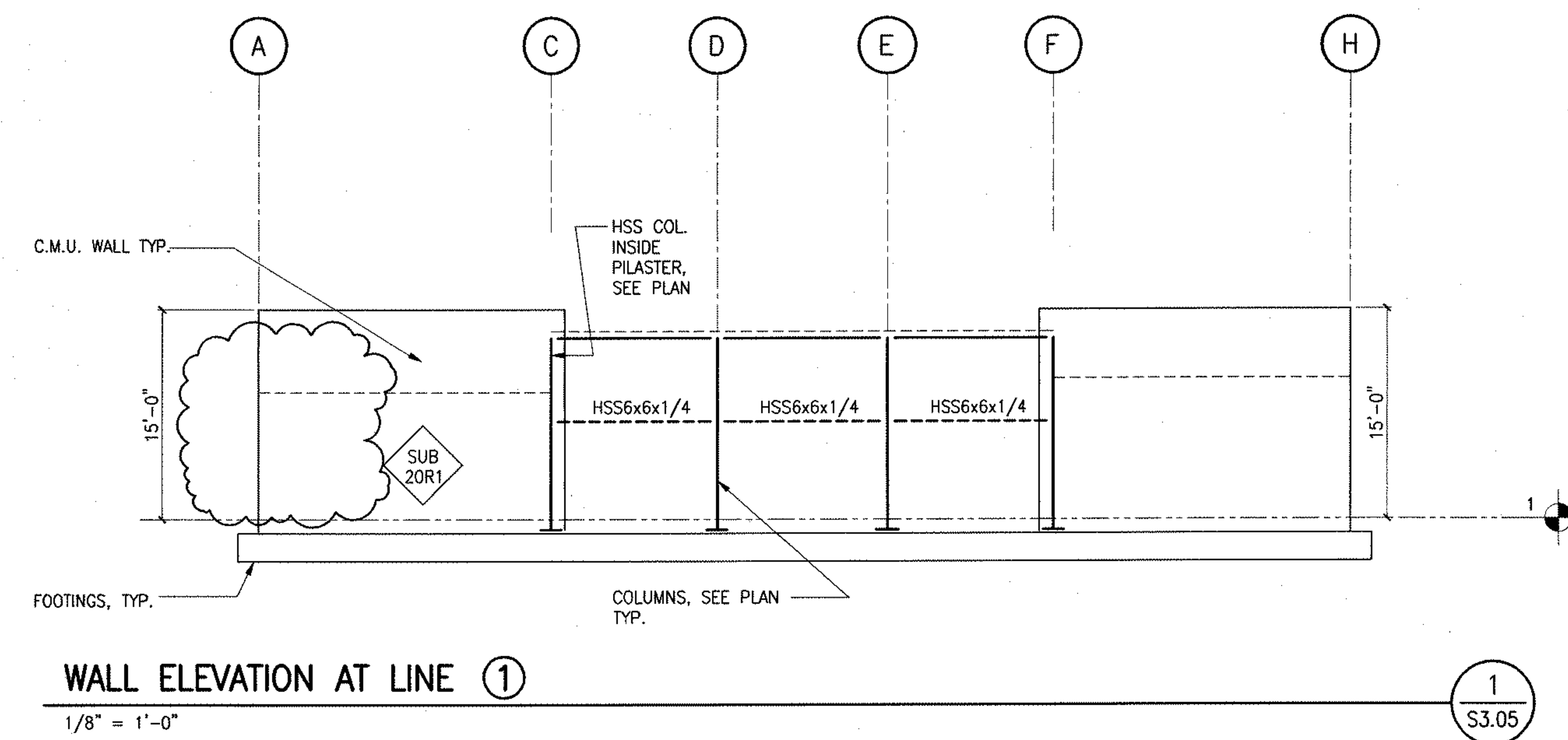
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scale AS NOTED date 2003.04.18
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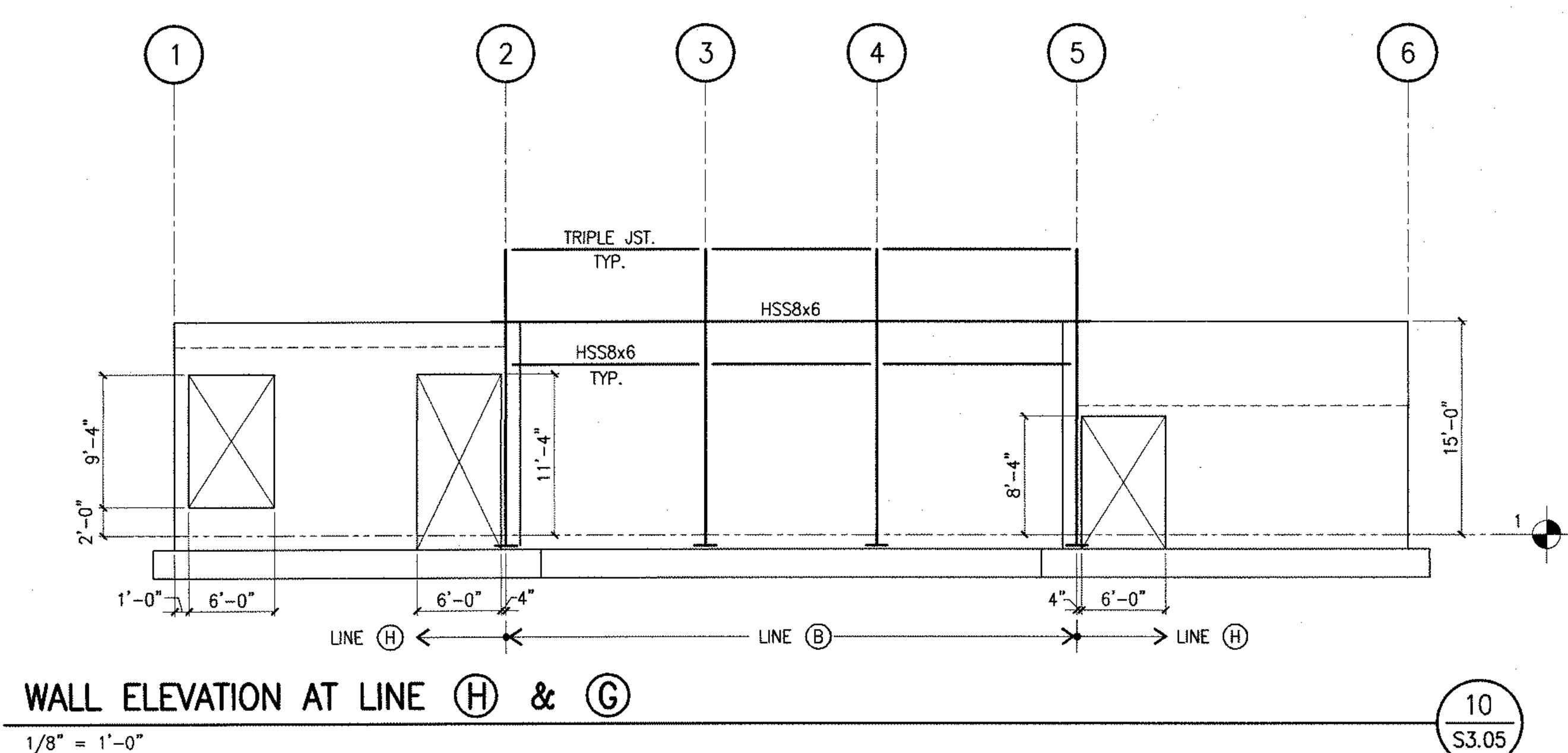
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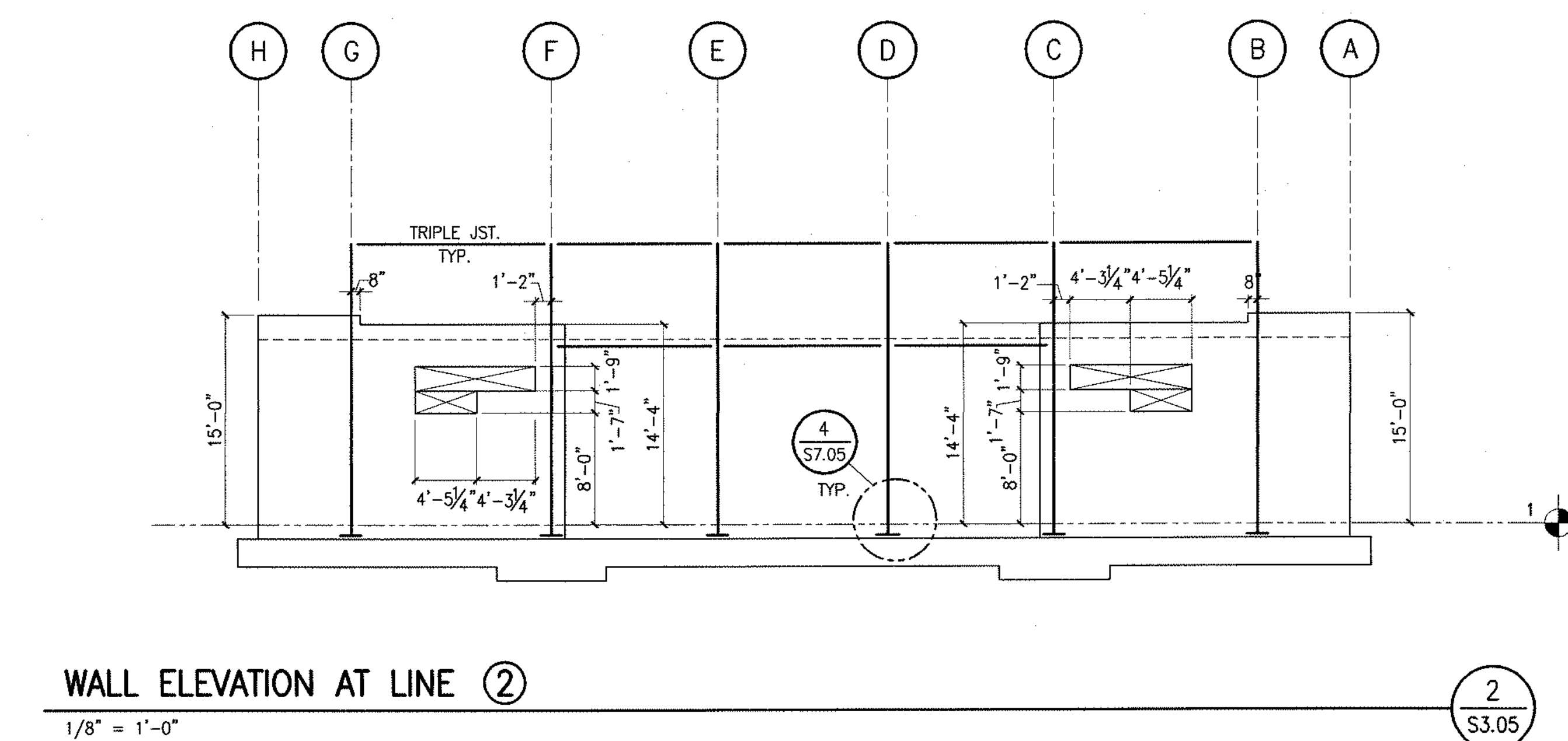
WALL ELEVATION AT LINE (A) & (B) 9 S3.05
1/8" = 1'-0"



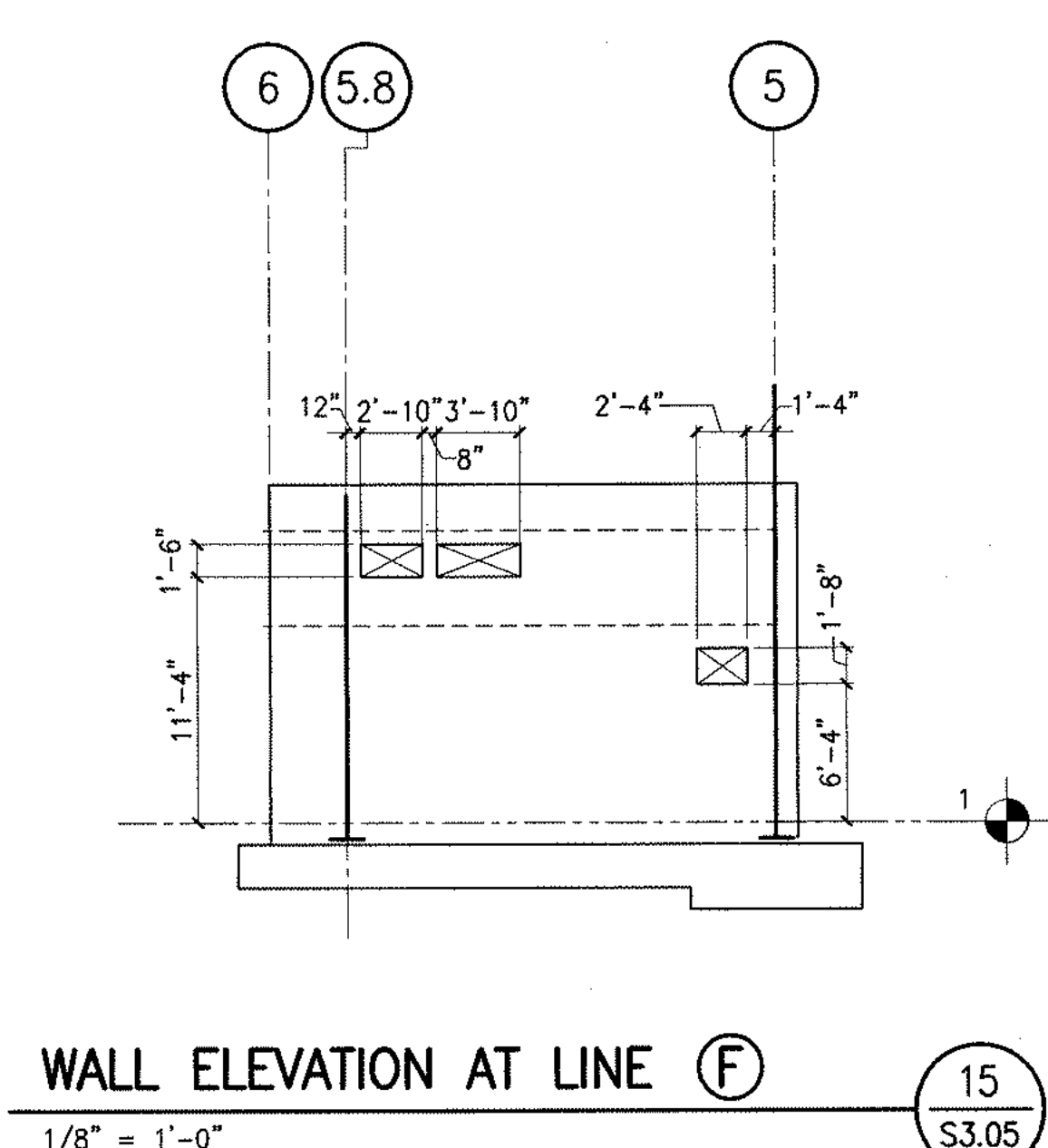
WALL ELEVATION AT LINE (1) 1 S3.05
1/8" = 1'-0"



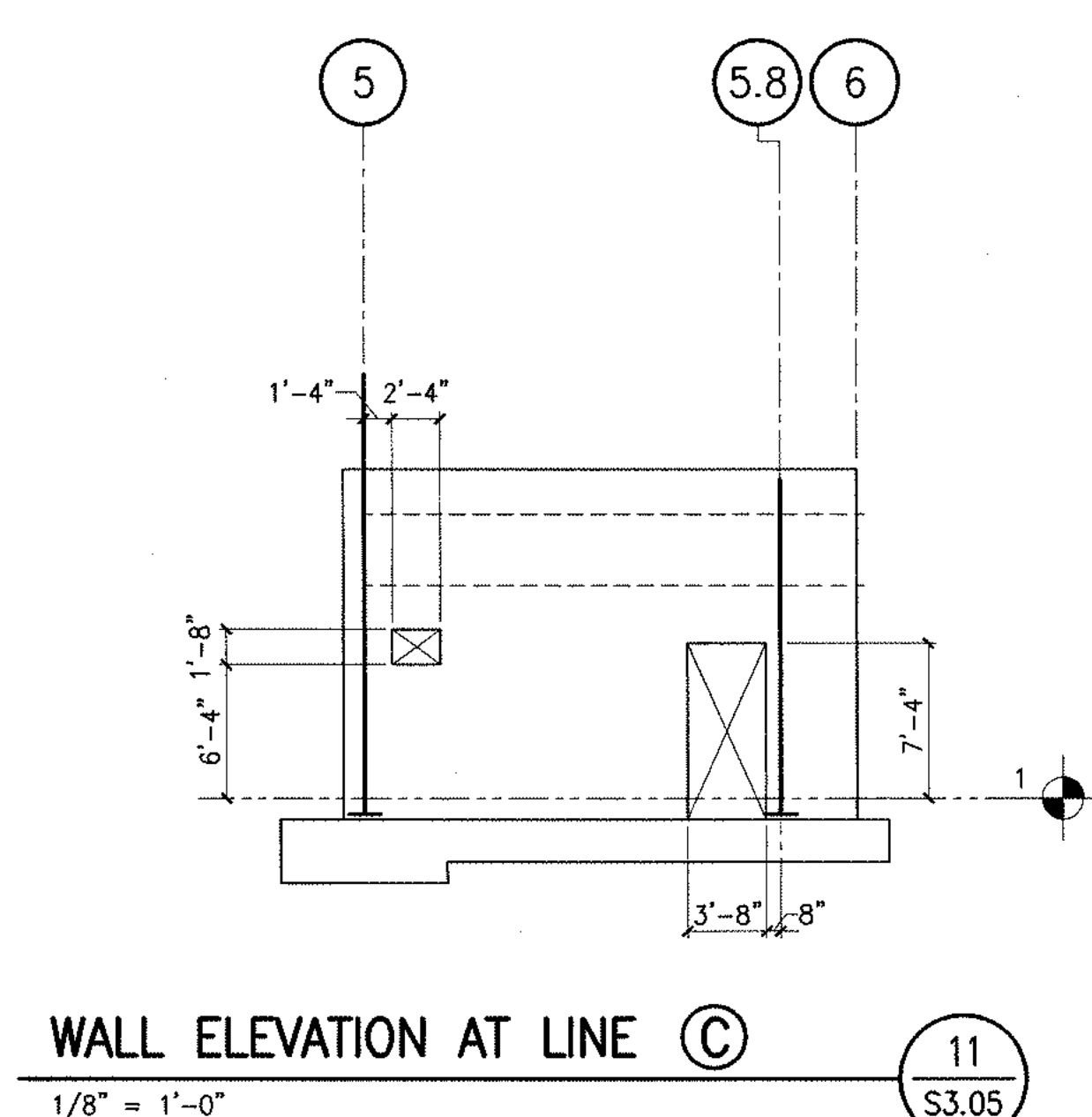
WALL ELEVATION AT LINE (H) & (G) 10 S3.05
1/8" = 1'-0"



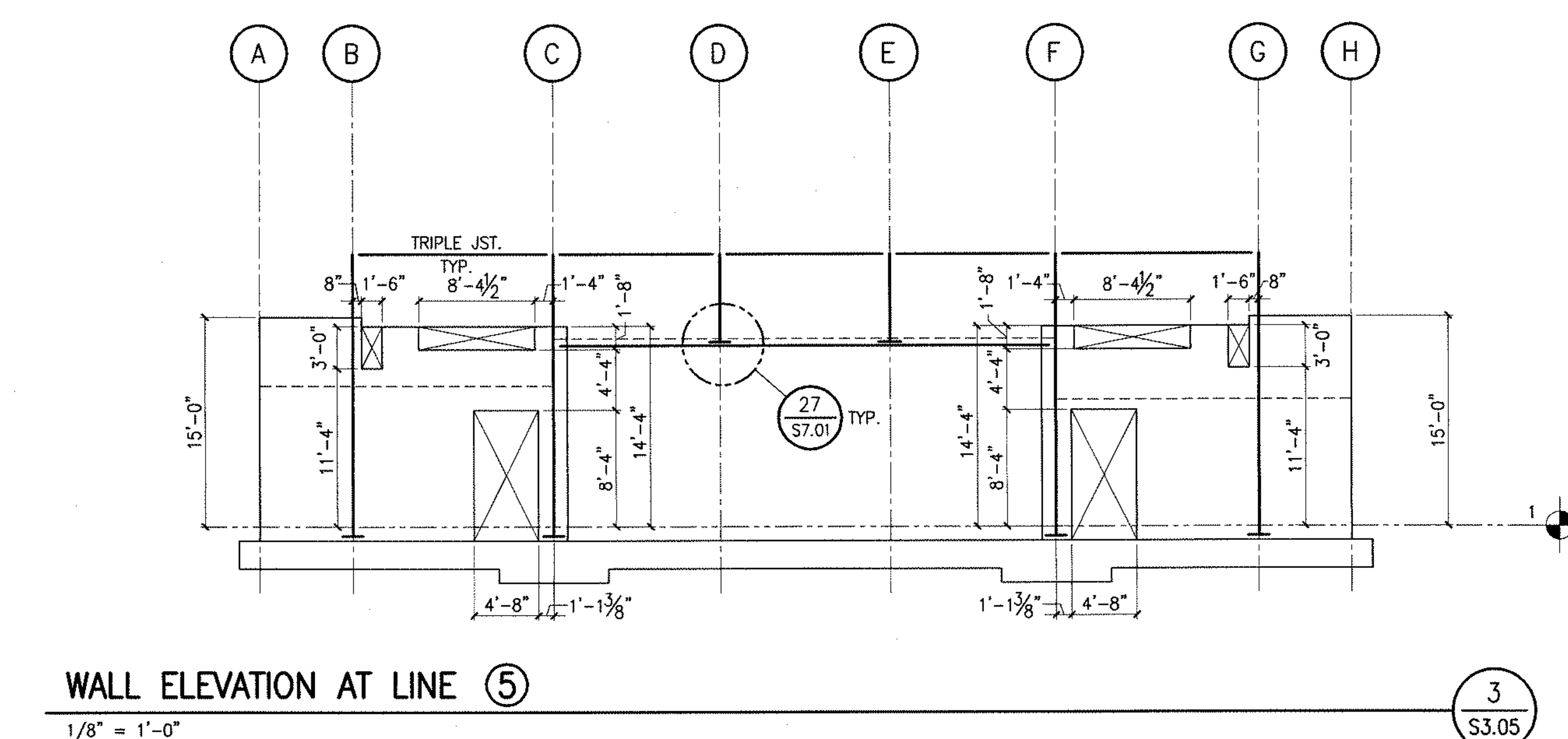
WALL ELEVATION AT LINE (2) 2 S3.05
1/8" = 1'-0"



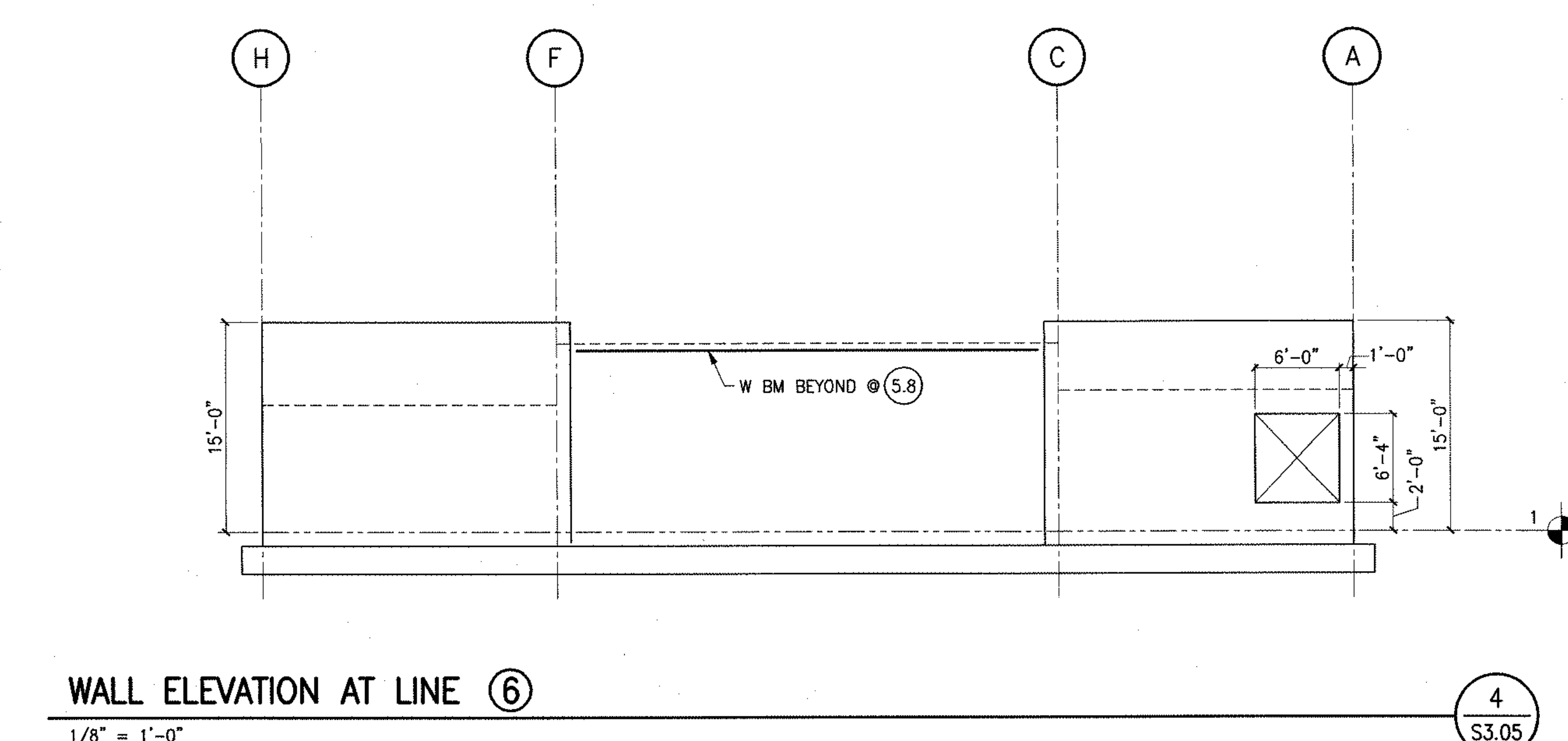
WALL ELEVATION AT LINE (F) 15 S3.05
1/8" = 1'-0"



WALL ELEVATION AT LINE (C) 11 S3.05
1/8" = 1'-0"



WALL ELEVATION AT LINE (5) 3 S3.05
1/8" = 1'-0"



WALL ELEVATION AT LINE (6) 4 S3.05
1/8" = 1'-0"

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2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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160 Pine Street
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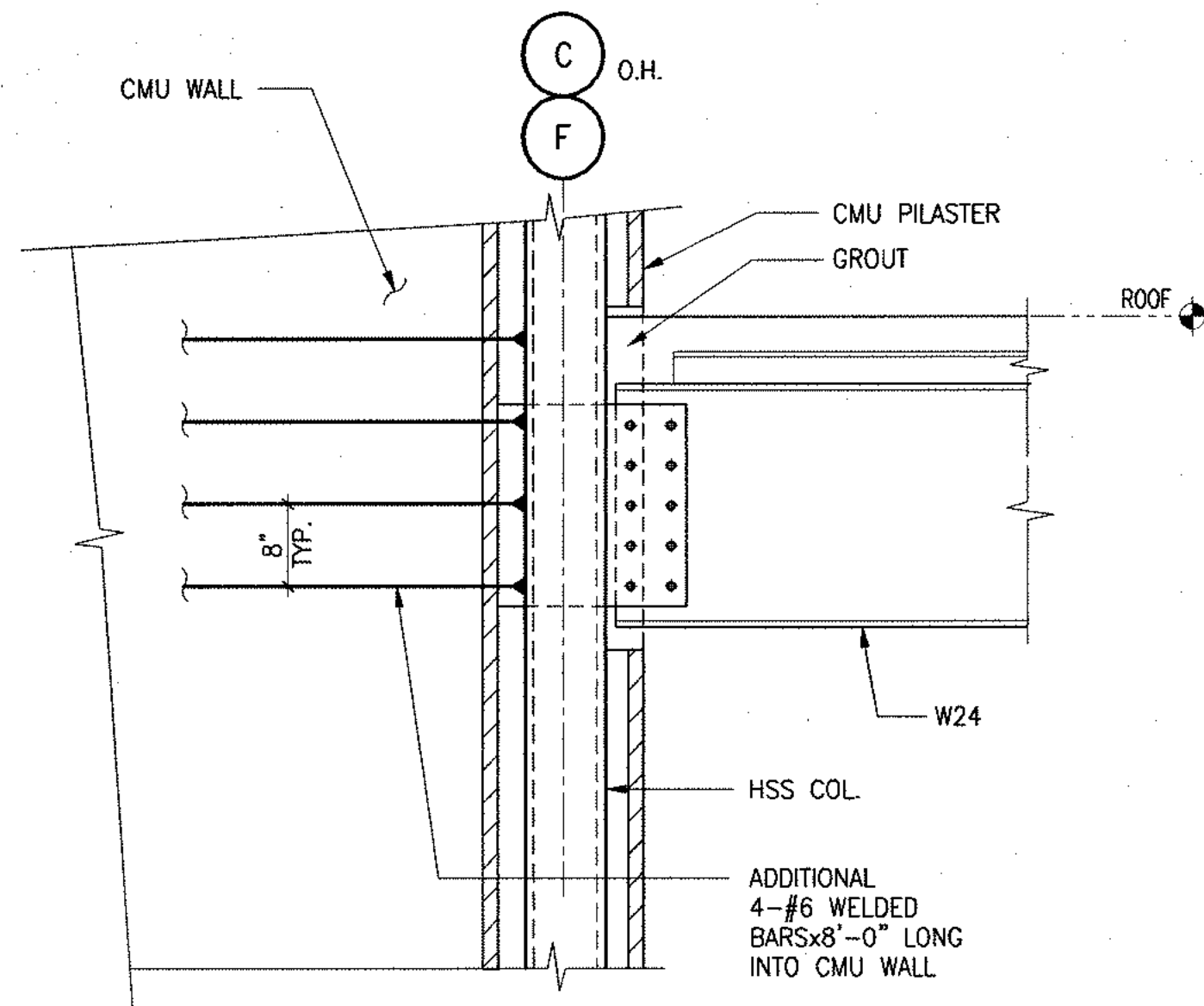
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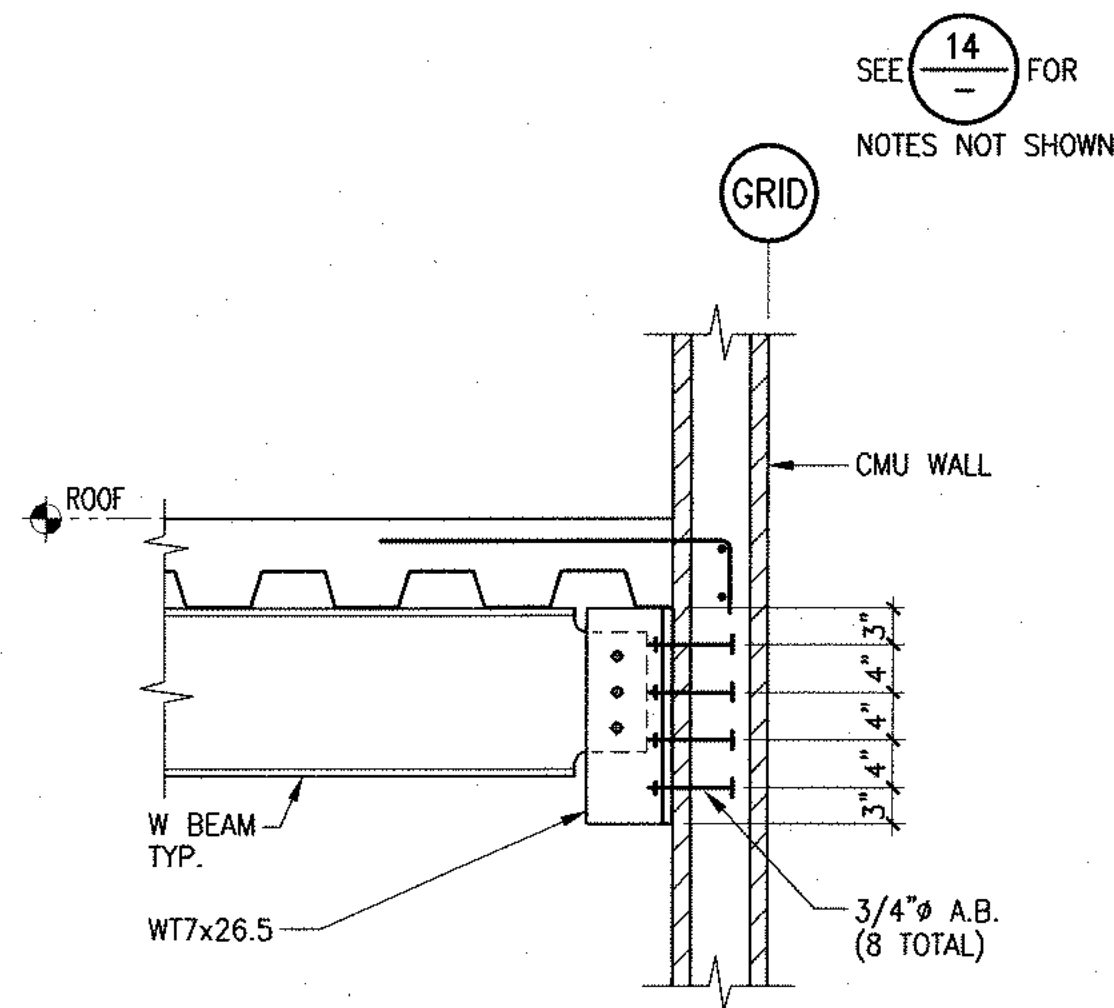
COMMUNITY HALL - ELEVATIONS

Scale: AS NOTED Date: 2003.04.18
Drawn by: project number: 10335
Sheet number:

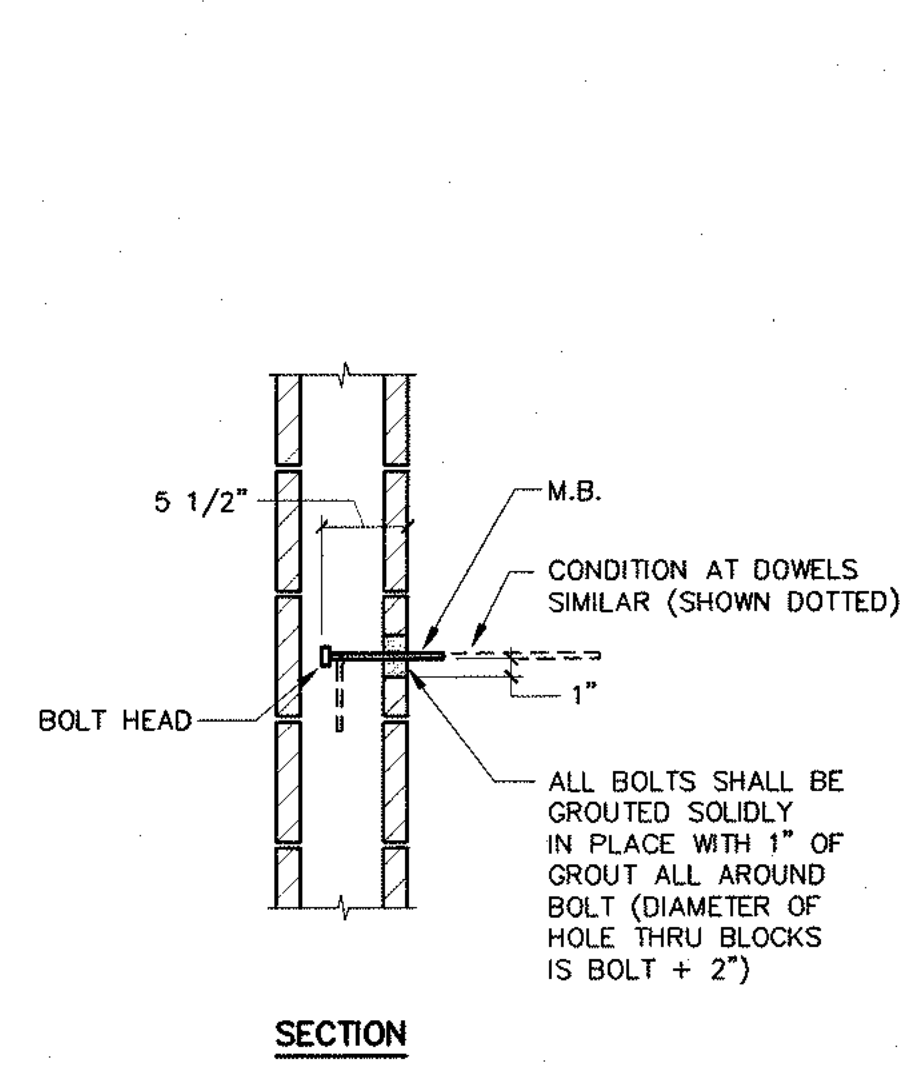
\$3.05



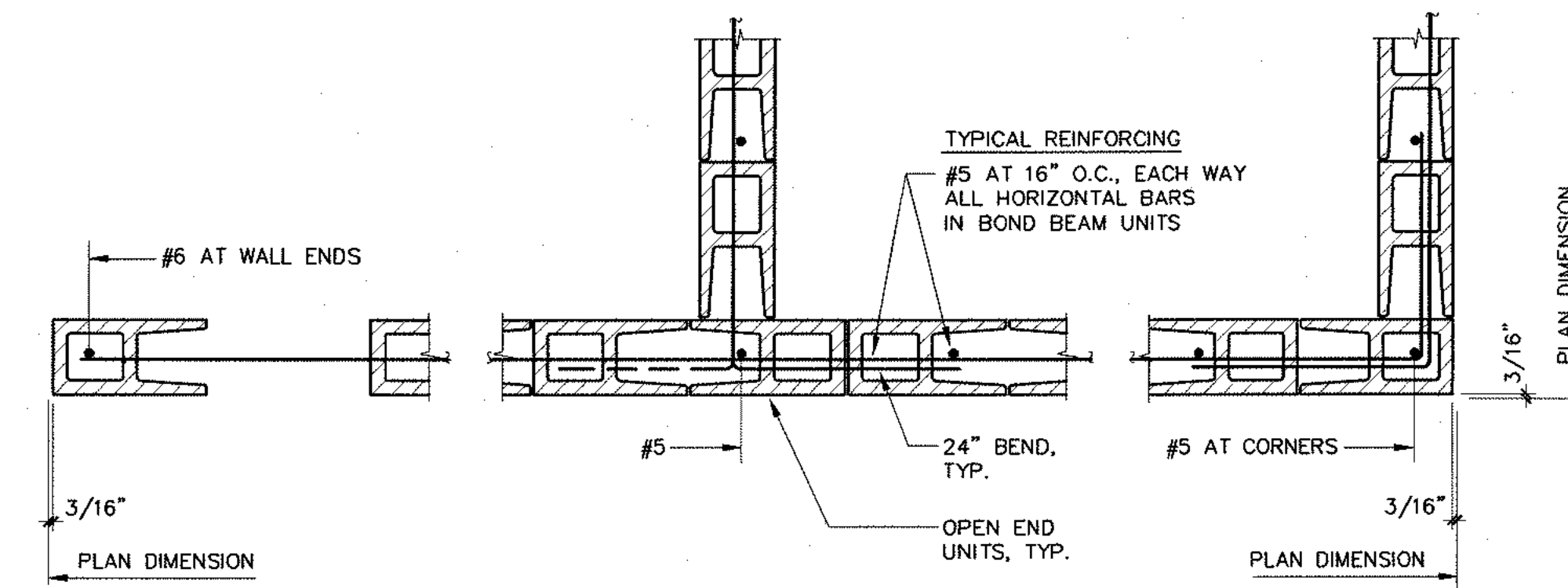
DETAIL 17
3/4"=1'-0" S4.01



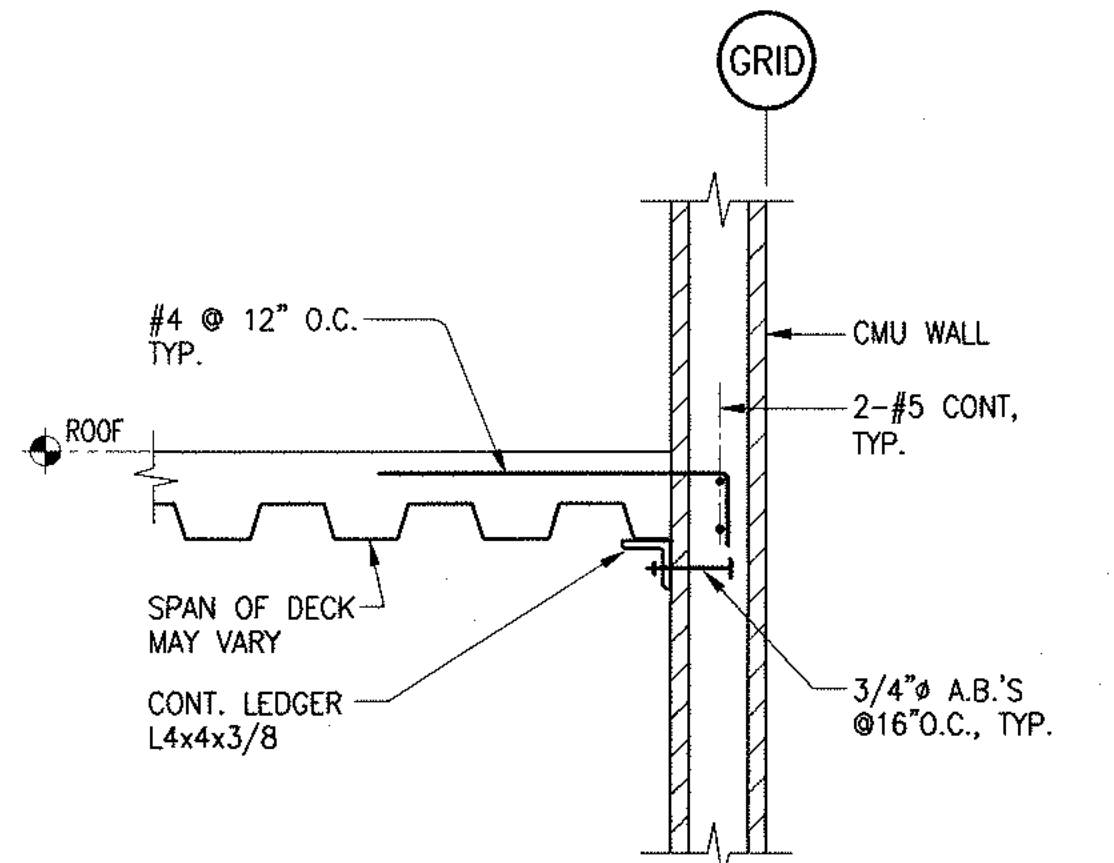
DETAIL 13
3/4"=1'-0" S4.01



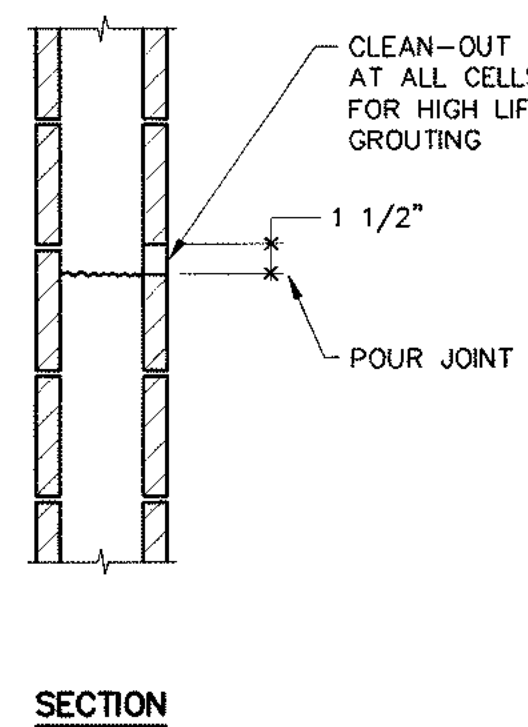
BOLT IN C.M.U. WALL 9
NO SCALE S4.01



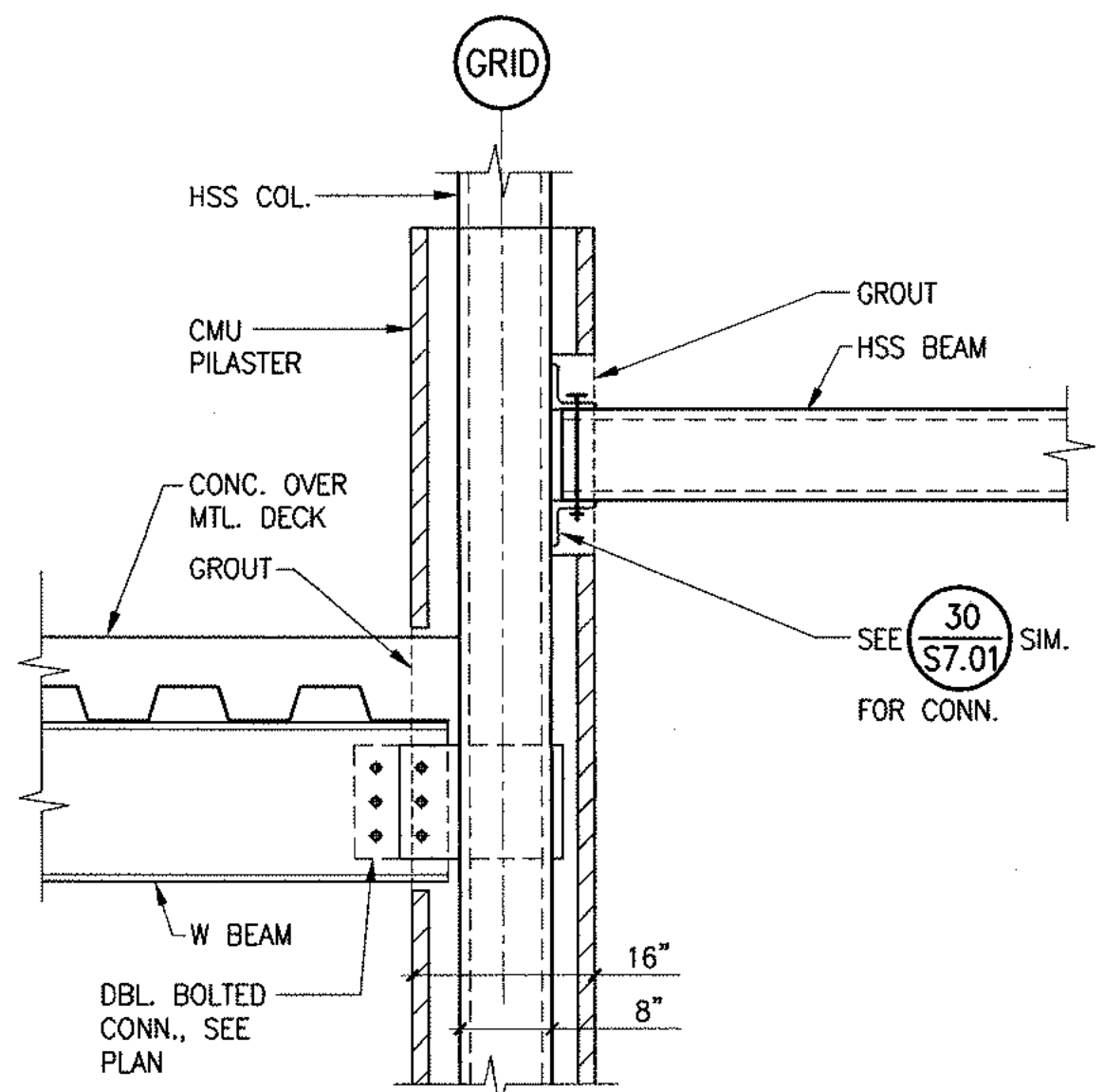
TYPICAL PLAN VIEW OF 8\"/>



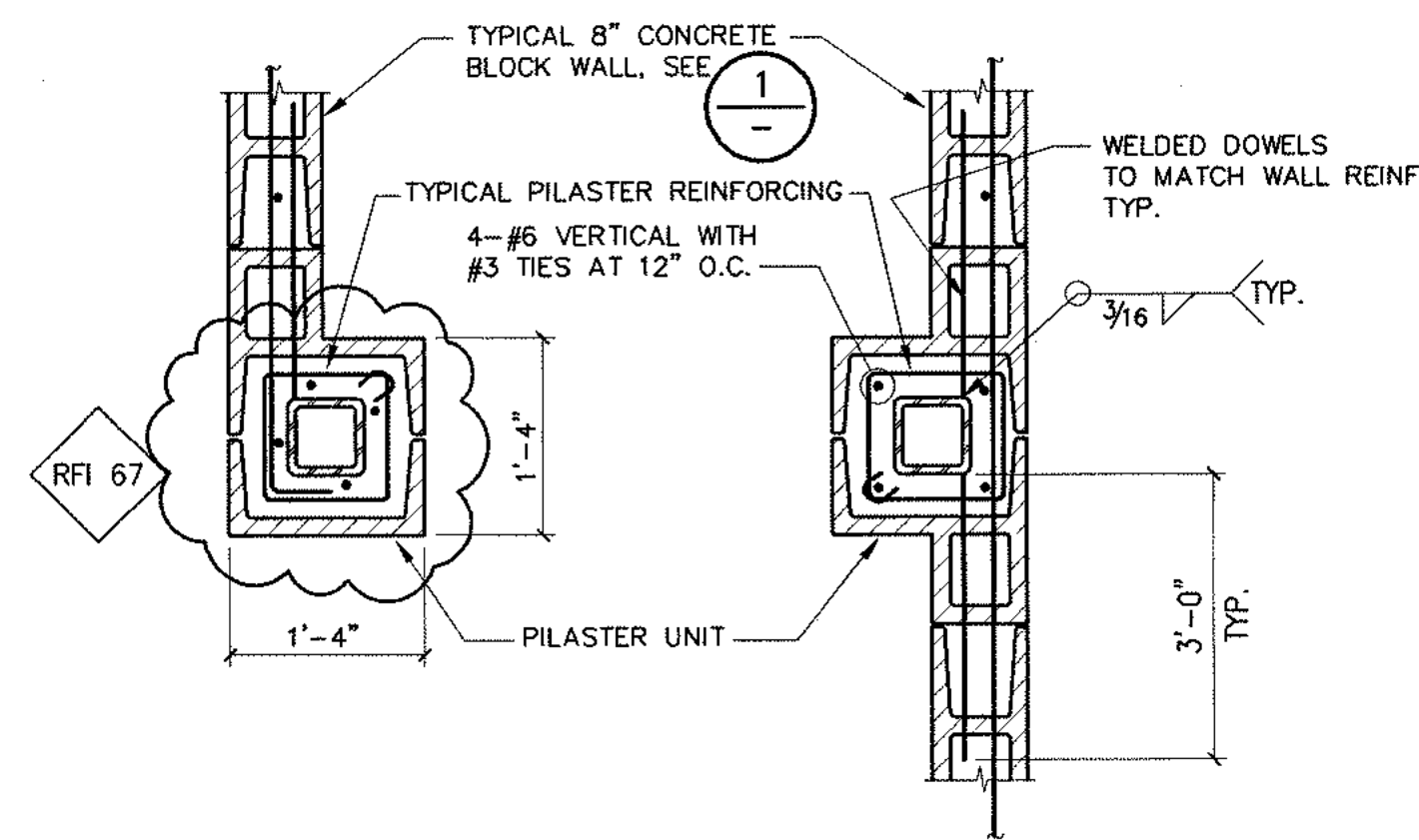
DETAIL 14
3/4"=1'-0" S4.01



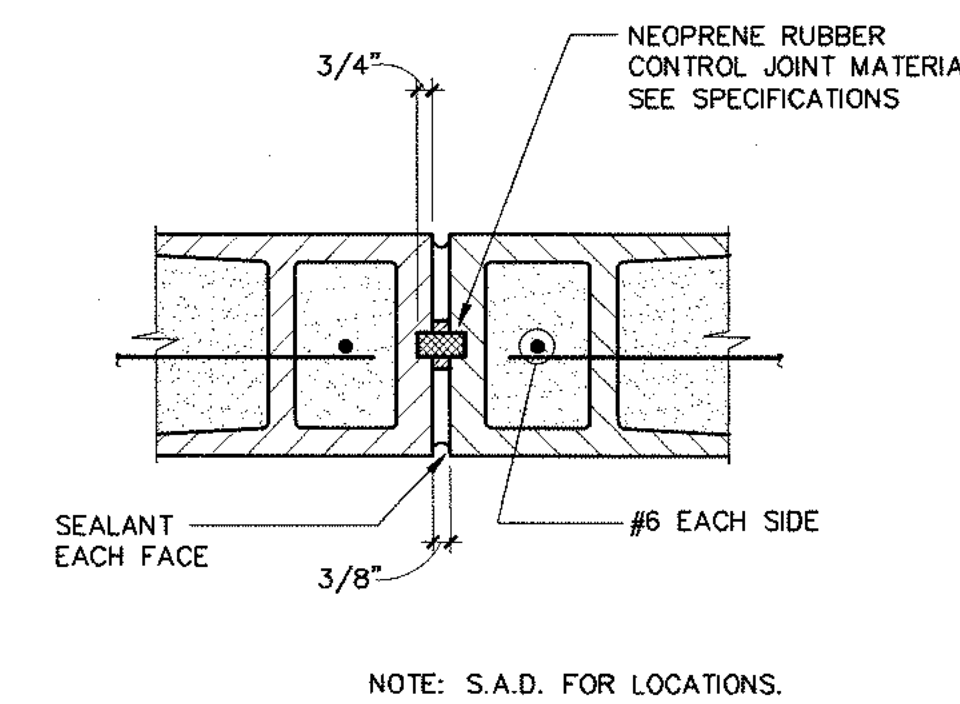
HORIZONTAL CONSTRUCTION JOINT IN C.M.U. WALL 10
NO SCALE S4.01



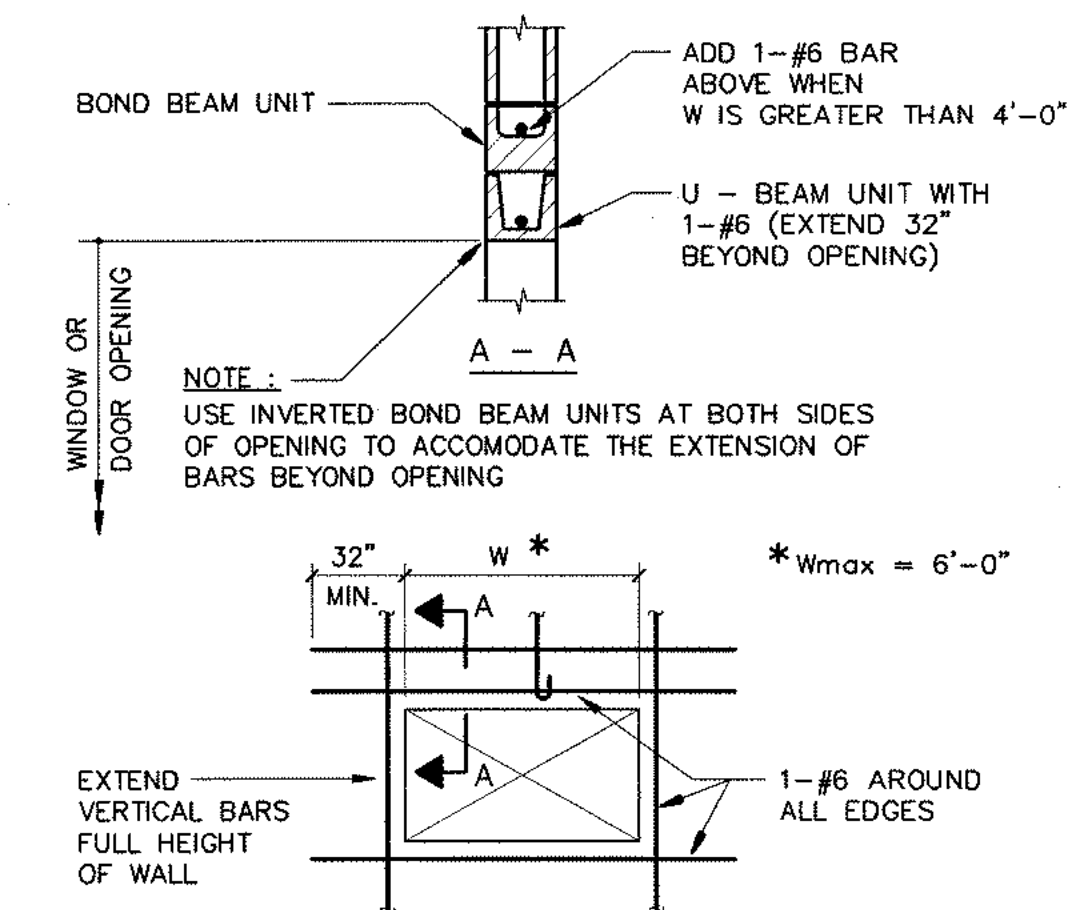
DETAIL 15
3/4"=1'-0" S4.01



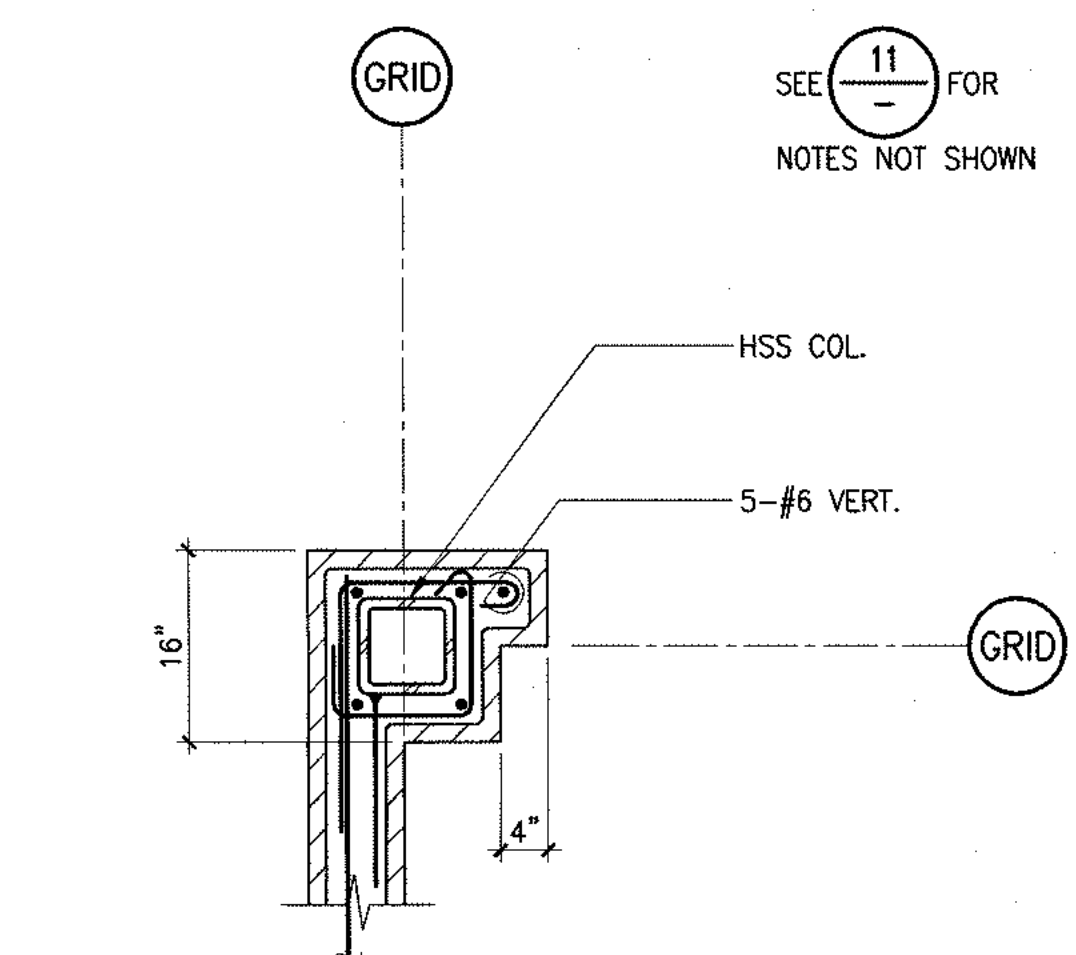
TYPICAL CONCRETE BLOCK PILASTER DETAILS 11
NO SCALE S4.01



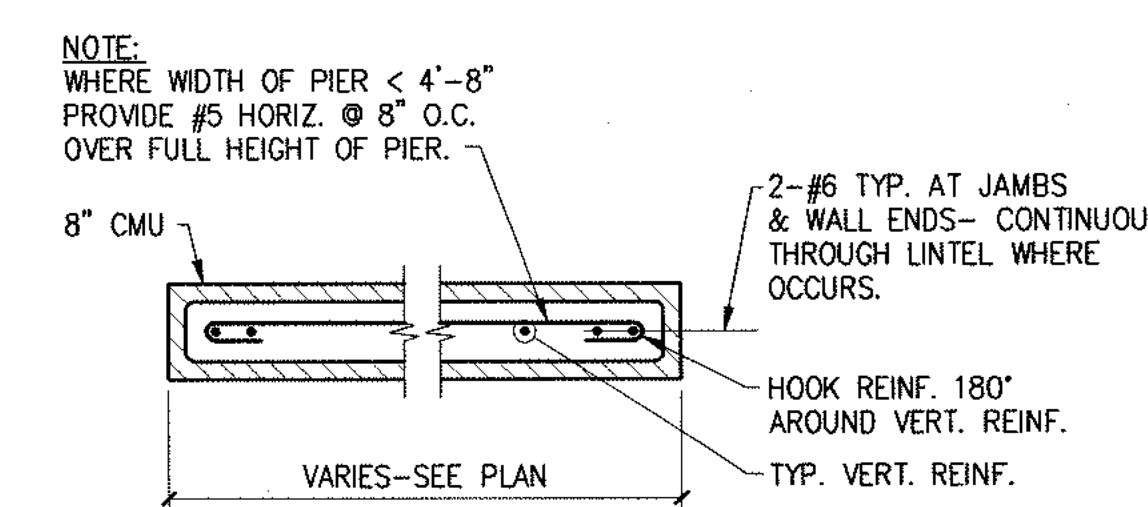
TYPICAL C.M.U. WALL CONTROL JT. AT 8\"/>



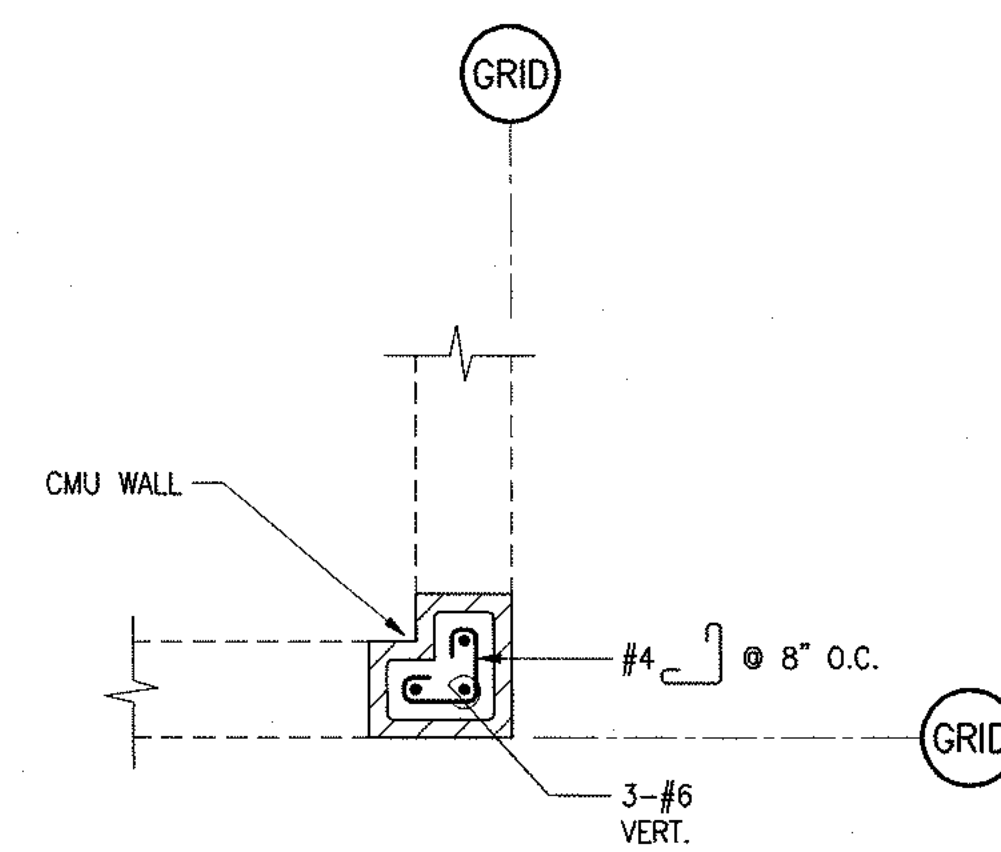
TYPICAL REINFORCING AROUND OPENING IN C.M.U. WALL 3
NO SCALE S4.01



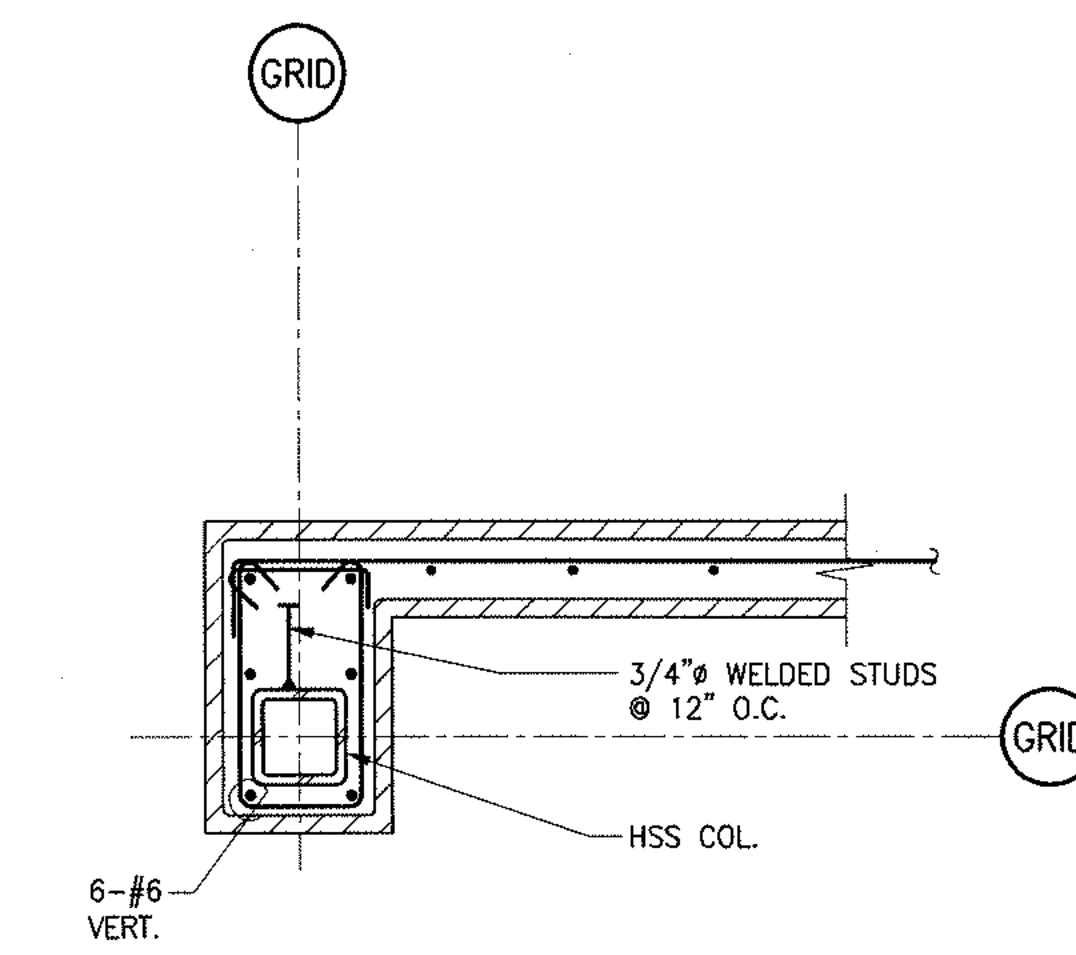
PLAN DETAIL 16
3/4"=1'-0" S4.01



PLAN SECTION-TYP. WALL PIER 8\"/>



PLAN DETAIL 8
3/4"=1'-0" S4.01



PLAN DETAIL 4
3/4"=1'-0" S4.01

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408 777 3333 F

Sandis Humber Jones
1600 Sacramento Inn Way
Suite 2
Sacramento, CA 95815
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2020 17th Street
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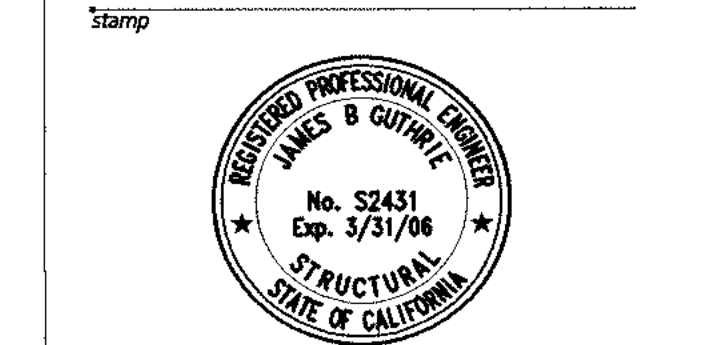
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415 398 3833 T
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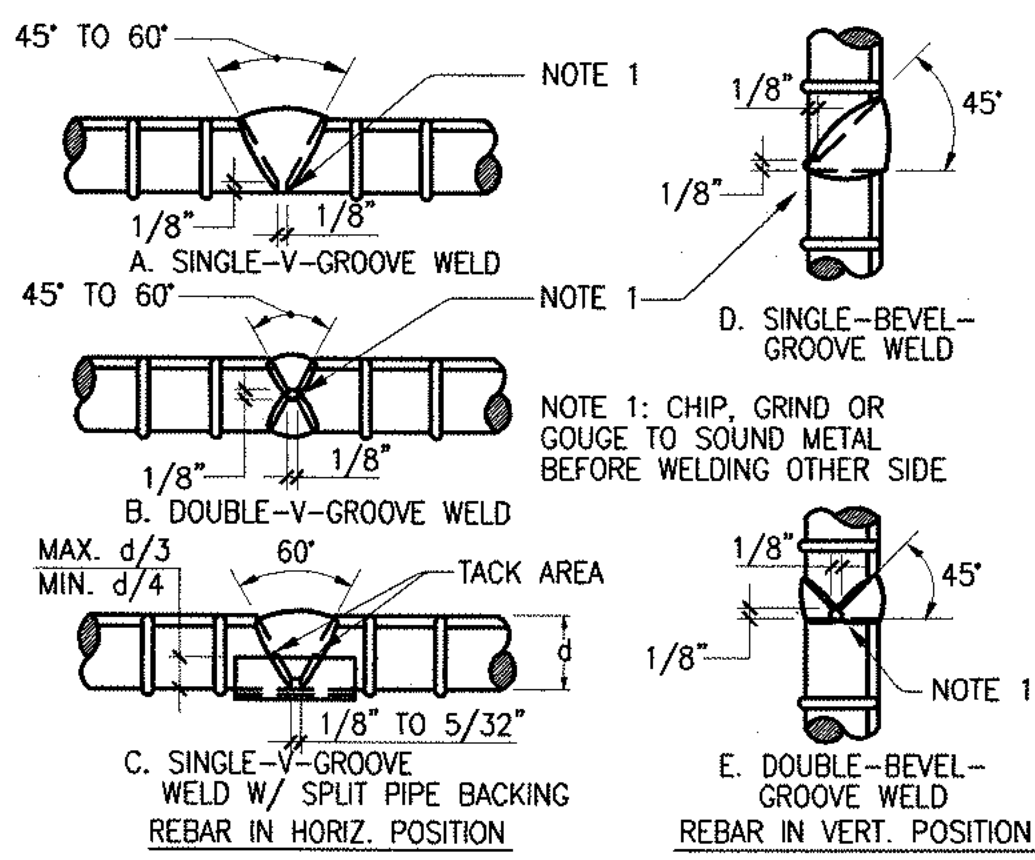


CA UPDATE SET

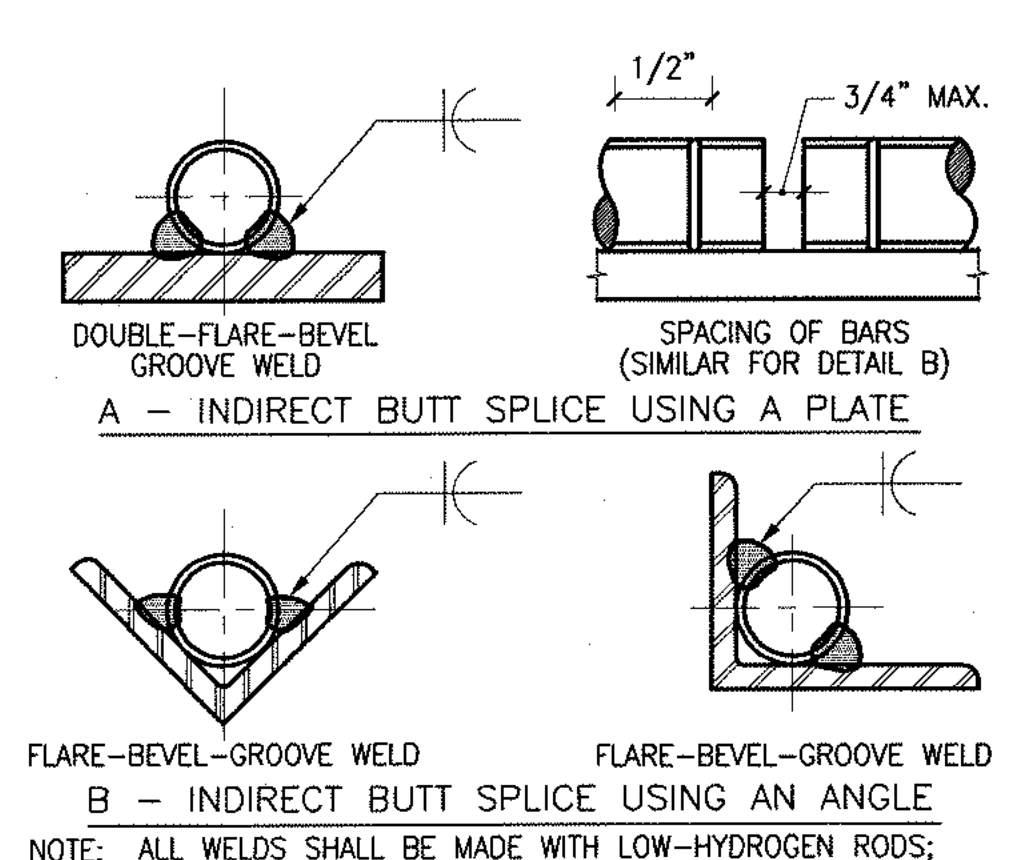
TYPICAL
CONCRETE
MASONRY UNIT
DETAILS

scale AS NOTED date 2003.04.18
drawn by KRL/lopez project number 1035
sheet number

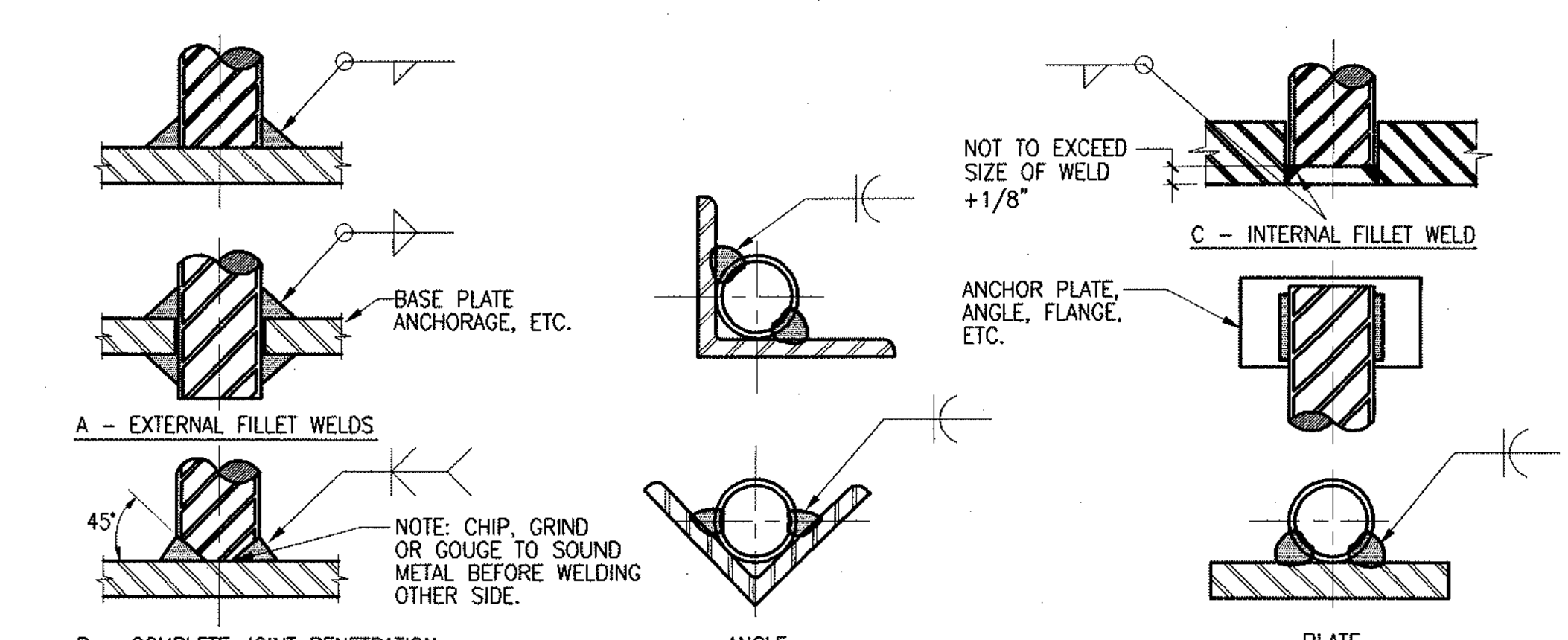
S4.01



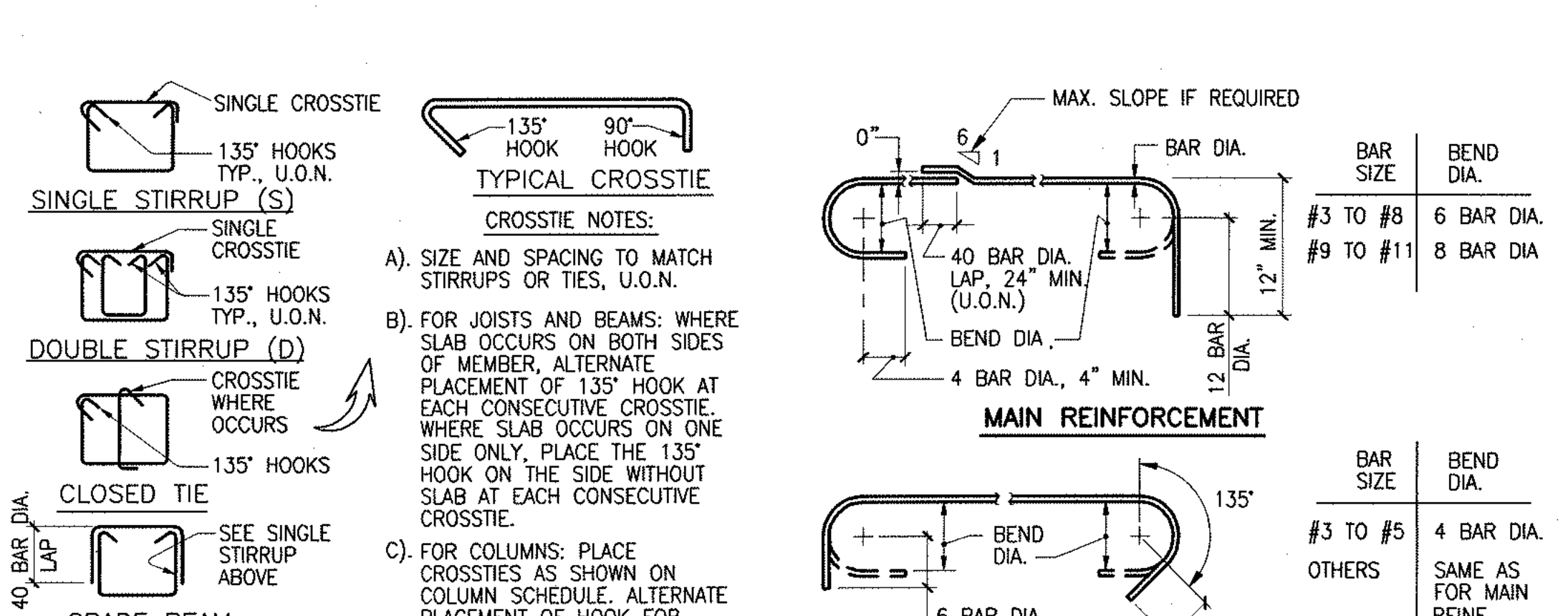
REINFORCING BAR WELDS - BAR TO BAR DIRECT BUTT SPLICES 26
NO SCALE \$5.01



REINFORCING BAR WELDS - BAR TO BAR INDIRECT BUTT SPLICES 21
NO SCALE \$5.01

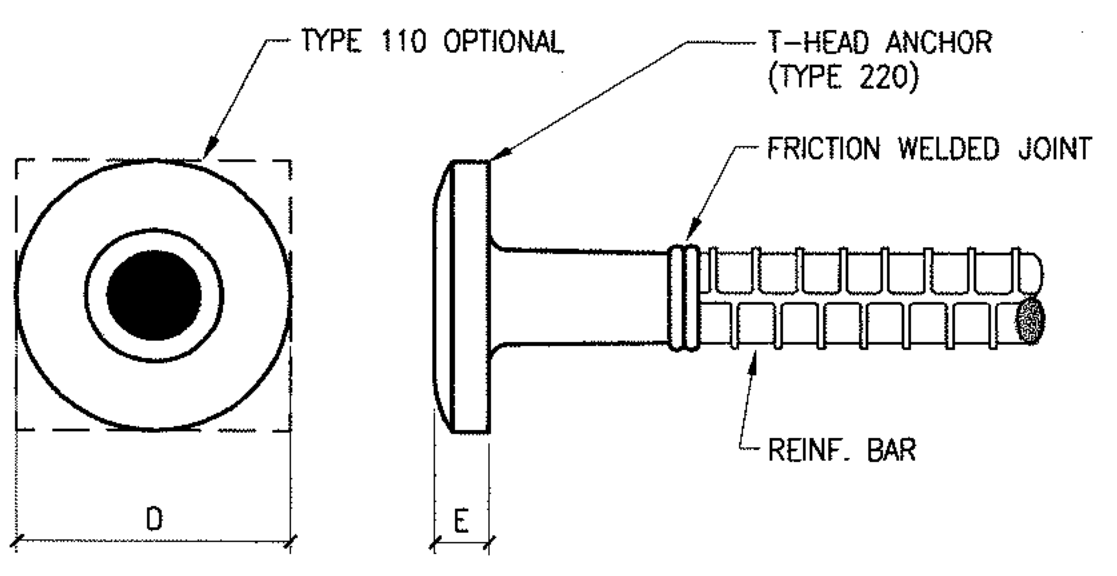


REINFORCING BAR WELDS - BAR TO PLATE OR STEEL SHAPE 11
NO SCALE \$5.01



TYPICAL STIRRUPS AND TIES 6
NO SCALE \$5.01

TYPICAL BAR HOOKS & BENDS 1
NO SCALE \$5.01

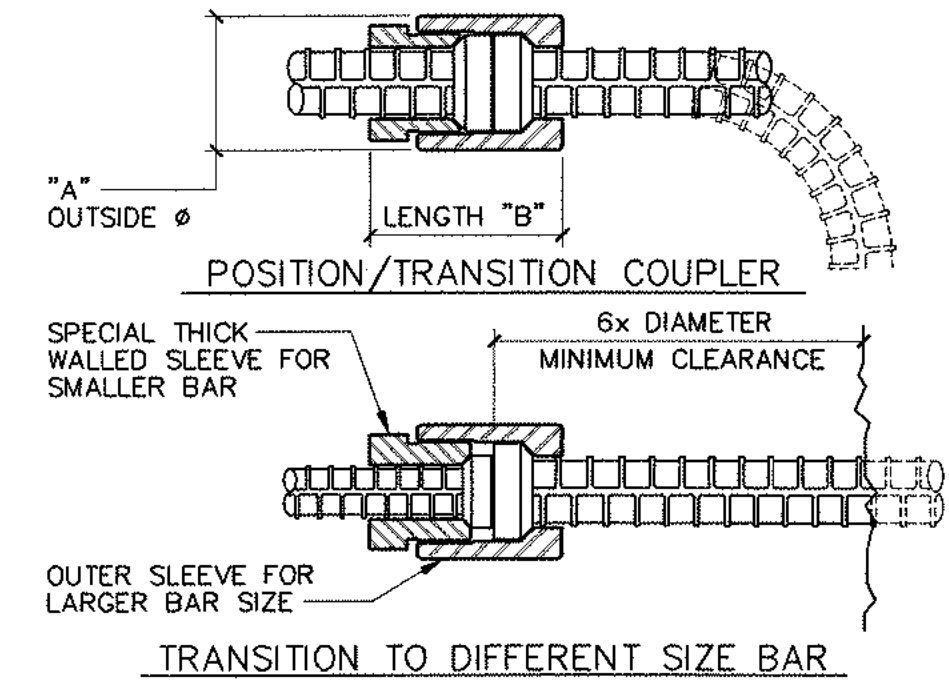
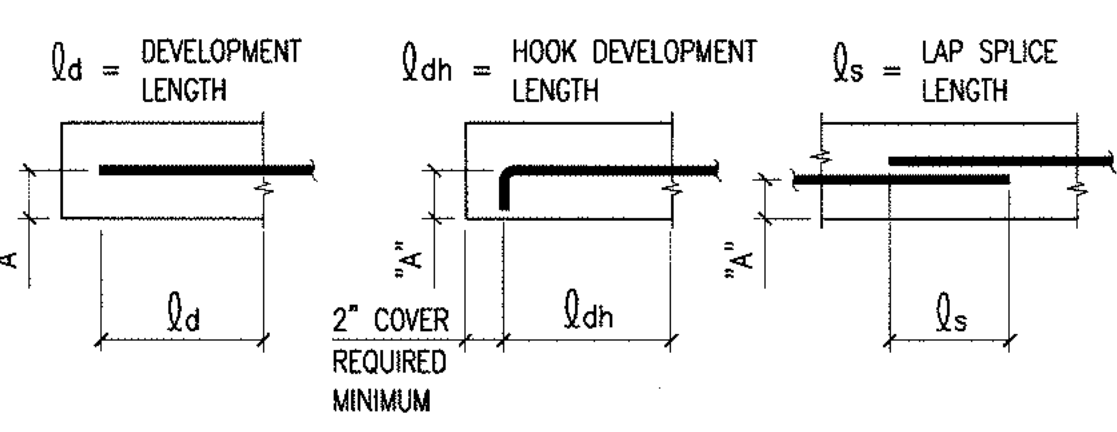


ANCHOR DETAIL 28
NO SCALE \$5.01

Bar NO.	Properties (Lbs.)		Anchor Head/Thread Dimension (Inch)	
	YIELD STRENGTH	TENSILE STRENGTH	D	E
#6	26,400	35,200	2.36	0.56
#7	36,000	48,000	2.77	0.63
#8	47,400	63,200	3.25	0.63
#9	60,000	80,000	3.50	0.71
#10	76,200	101,600	4.0	0.79
#11	93,600	124,800	4.50	0.88

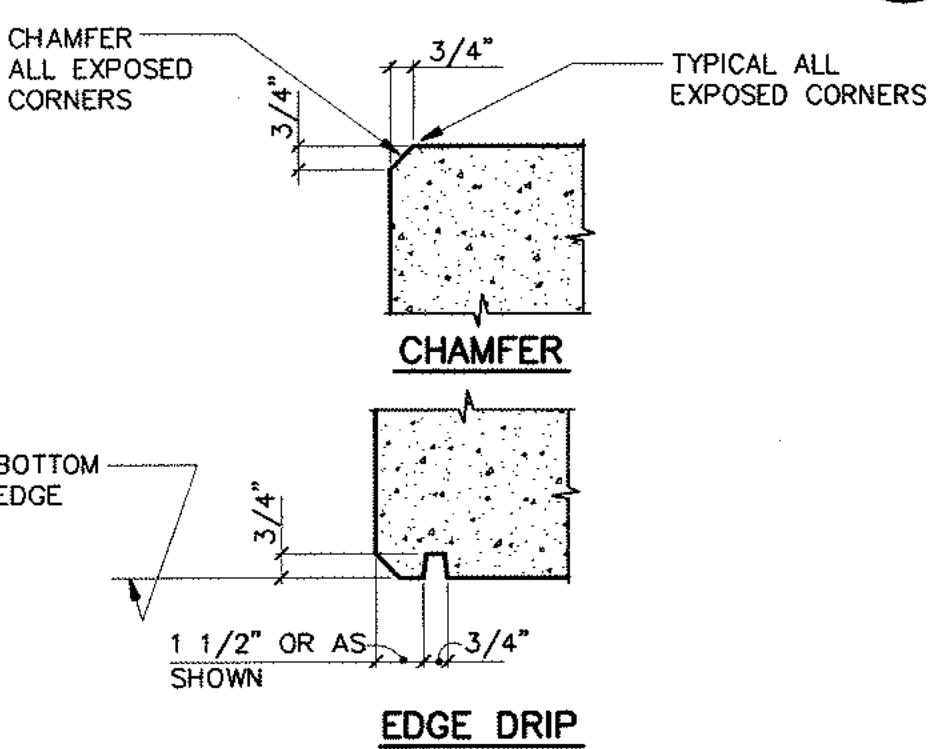
CONCRETE BAR SIZE	POSITION	3,000 PSI CONC.			4,000 PSI CONC.			5,000 PSI CONC.		
		ldh	ld	ls	ldh	ld	ls	ldh	ld	ls
4	TOP (NOTE 4)	11"	29"	37"	10"	25"	32"	9"	22"	29"
5	TOP OTHER	14"	36"	47"	12"	31"	40"	11"	28"	36"
6	TOP OTHER	17"	43"	56"	15"	37"	48"	13"	33"	43"
7	TOP OTHER	19"	48"	63"	17"	42"	54"	15"	49"	63"
8	TOP OTHER	22"	55"	72"	19"	48"	62"	17"	55"	72"
9	TOP OTHER	25"	62"	81"	22"	54"	70"	19"	63"	81"
10	TOP OTHER	28"	70"	93"	24"	61"	81"	22"	78"	93"
11	TOP OTHER	31"	79"	105"	27"	69"	94"	24"	86"	105"
14	TOP OTHER	37"	93"	121"	32"	81"	105"	29"	104"	121"

- NOTES:**
1. DEVELOPMENT LENGTH (ld) WHERE REQUIRED IN DRAWINGS AND FOR SPLICE CALCULATION SHALL BE CALCULATED PER ACI 318R.
 2. CLASS "B" SPLICES (ls) SHALL BE USED TYPICALLY, U.O.N. ON DRAWINGS.
 3. ALL WALL HORIZ. REINF. ARE TOP BARS.
 4. ALL BARS ARE TOP BARS UNLESS DIMENSION "A" IS LESS THAN 12".
 5. USE MECHANICAL COUPLERS TO SPLICE BAR SIZES NO. 10 AND GREATER. MECHANICAL COUPLERS OPTIONAL FOR NO. 7 - NO. 9 BARS.
 6. MULTIPLY ldh BY 1.4 WHERE 2" COVER NOT MAINTAINED.



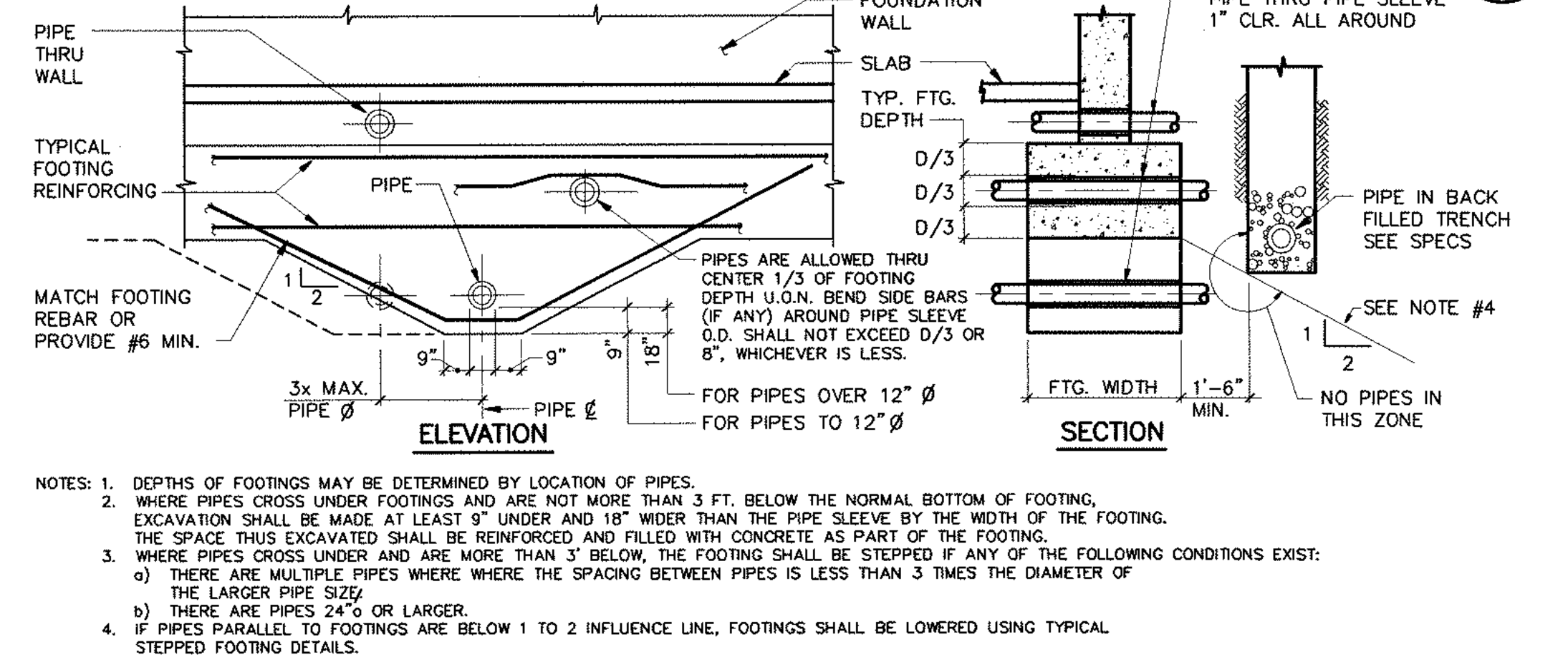
COUPLER DATA						
Maximum Coupler Dimensions	#7	#8	#9	#10	#11	#14
A. Coupler OD	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3 1/2"
B. Coupler Length	2 3/4"	3"	3 1/2"	3 3/4"	4"	5"
HRC 510 Recommended Install. Torque	Ft-lbs 200	Ft-lbs 200	Ft-lbs 250	Ft-lbs 250	Ft-lbs 300	Ft-lbs 300

TYP. MECH. COUPLER DETAILS 12
NO SCALE \$5.01

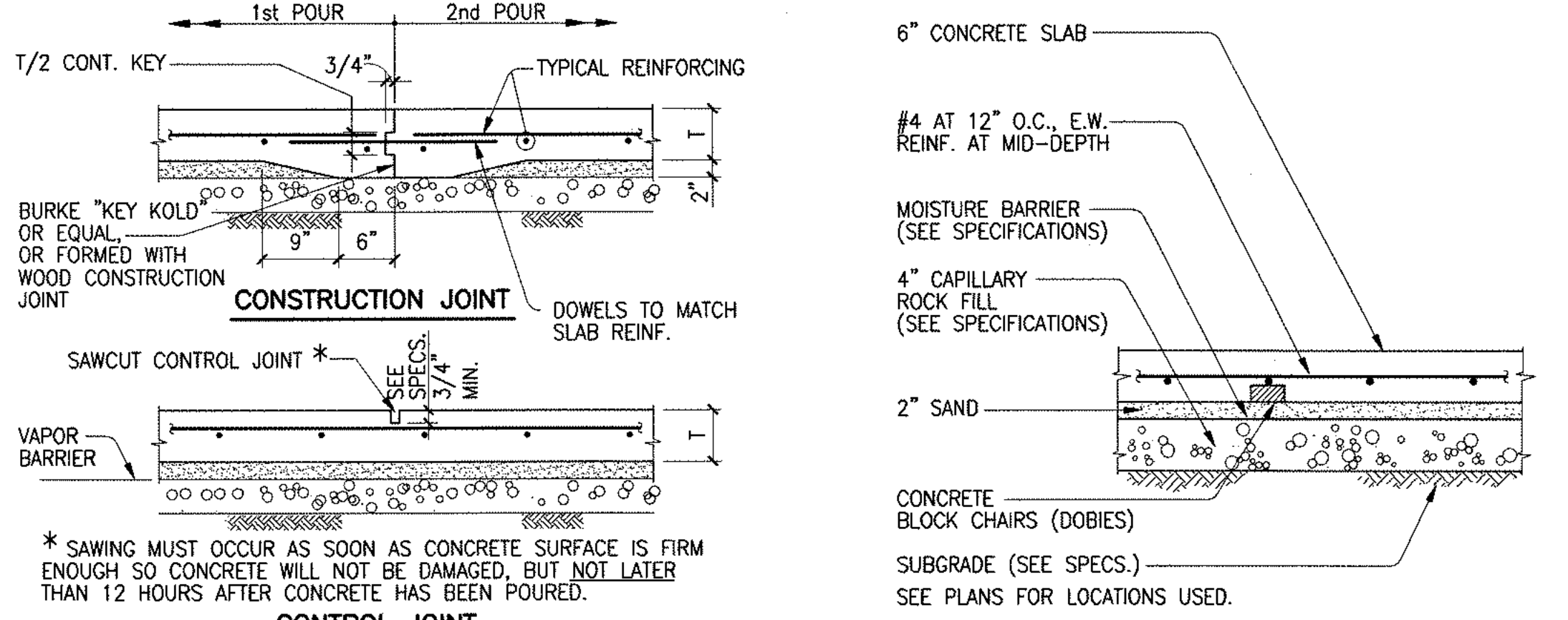


TYPICAL CONC. EDGE DETAILS 13
NO SCALE \$5.01

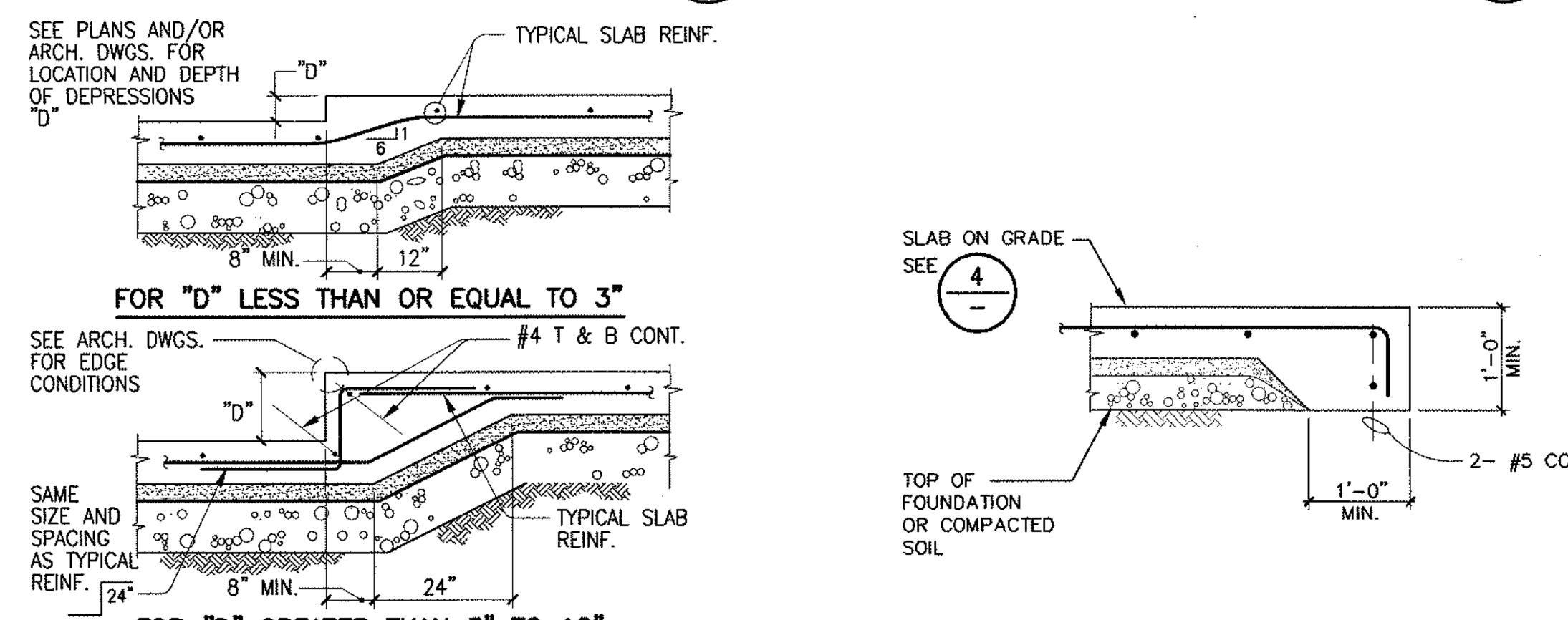
TYPICAL PLAN VIEWS OF CONCRETE WALLS AND FOOTINGS 2
NO SCALE \$5.01



TYPICAL PIPE AT FOOTING DETAILS 3
NO SCALE \$5.01

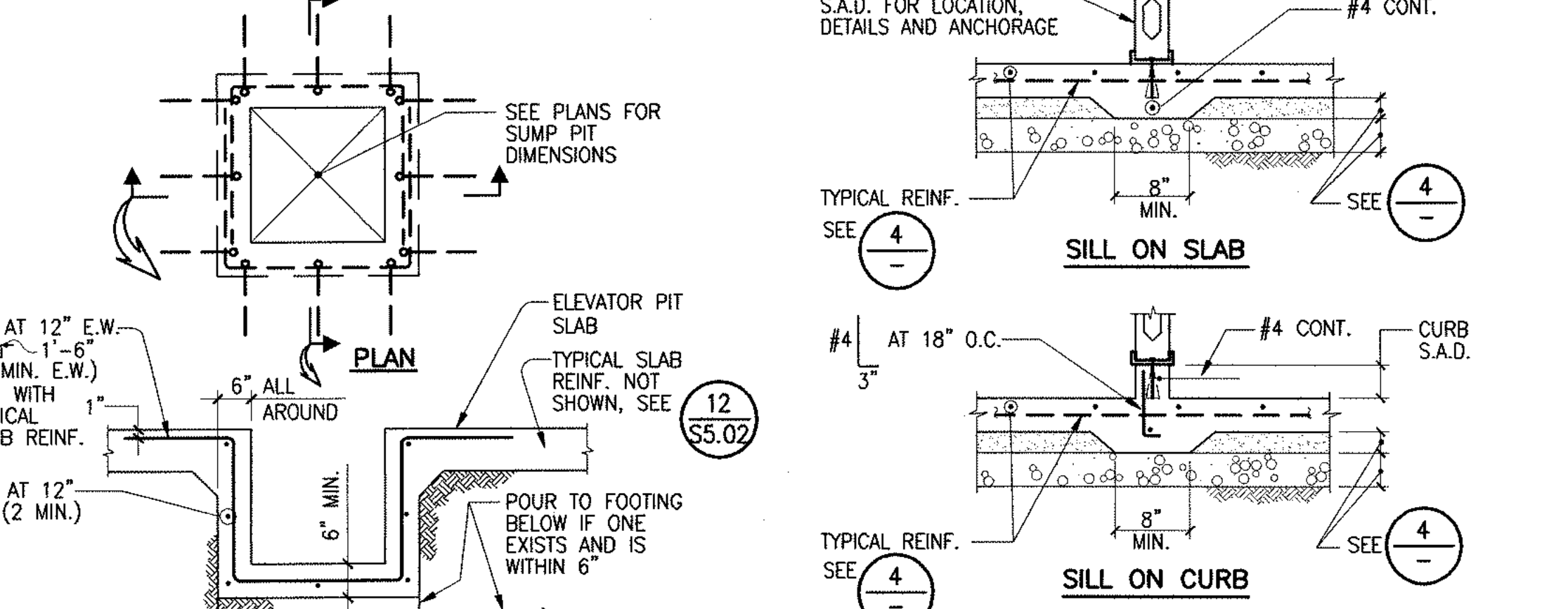


TYP. SLAB ON GRADE JOINTS 9
NO SCALE \$5.01

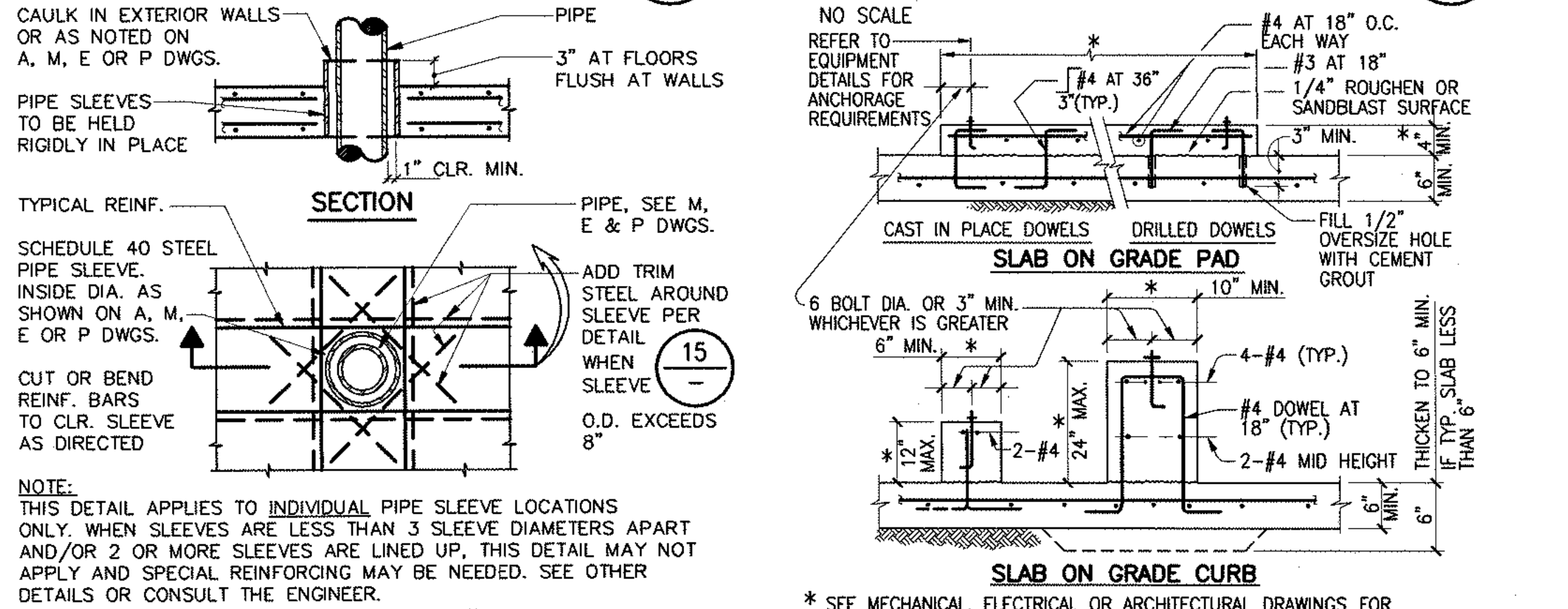


TYP. DEPRESSED SLAB DETAILS 10
NO SCALE \$5.01

REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE AND NOTES 18
NO SCALE \$5.01

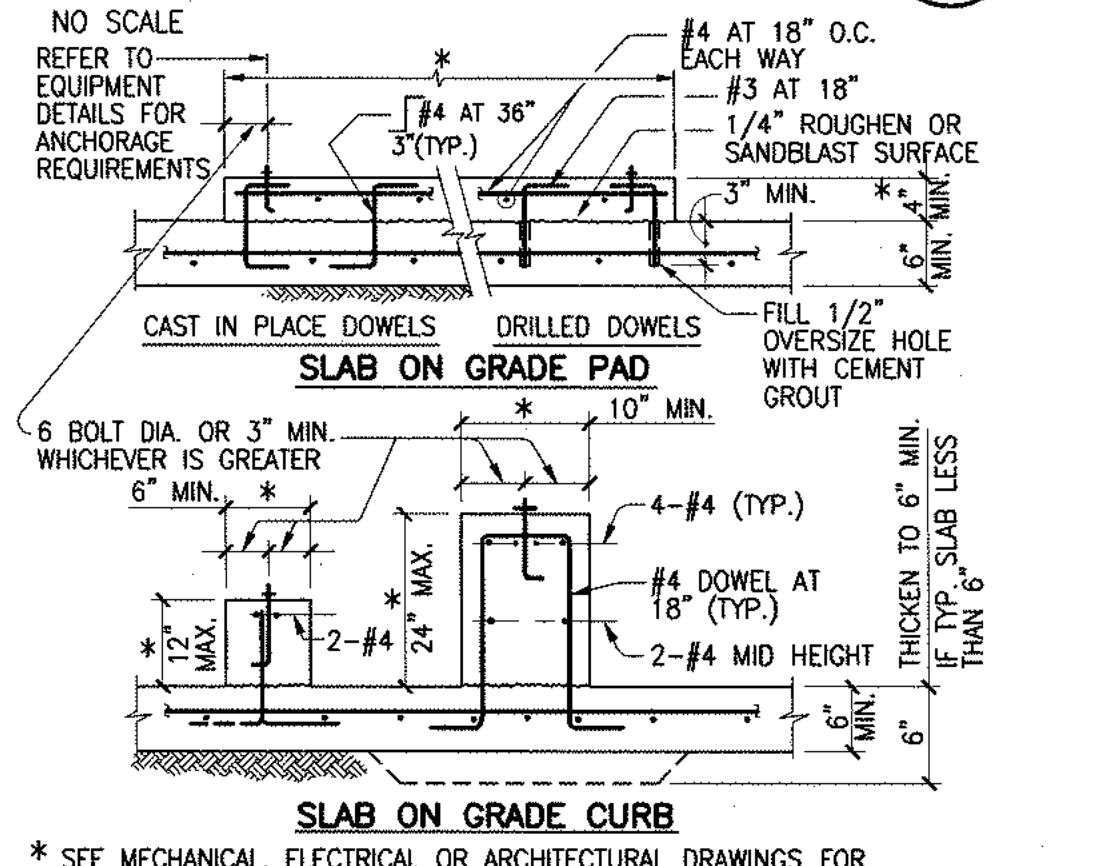


TYPICAL SUMP PIT DETAIL 24
NO SCALE \$5.01



TYPICAL REINFORCING AT WALL AND SLAB PIPE SLEEVES 25
NO SCALE \$5.01

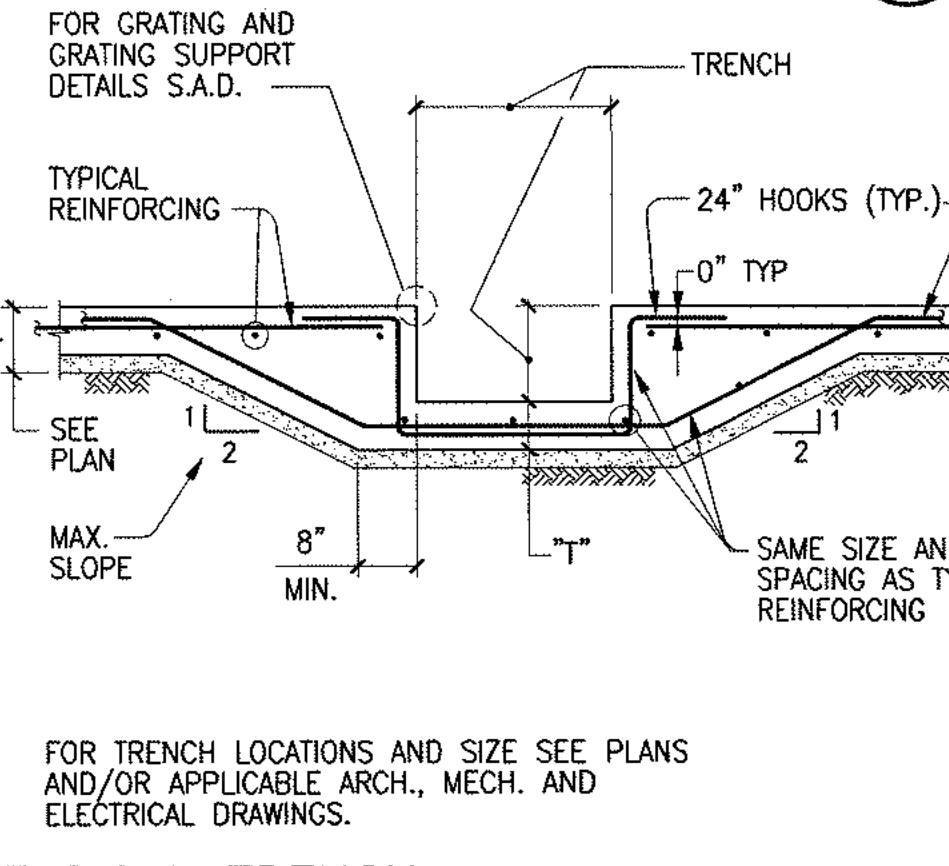
TYPICAL NON-BEARING METAL STUD WALL AT SLAB ON GRADE 19
NO SCALE \$5.01



TYP. CONC. EQUIPMENT SUPPORTS 20
NO SCALE \$5.01



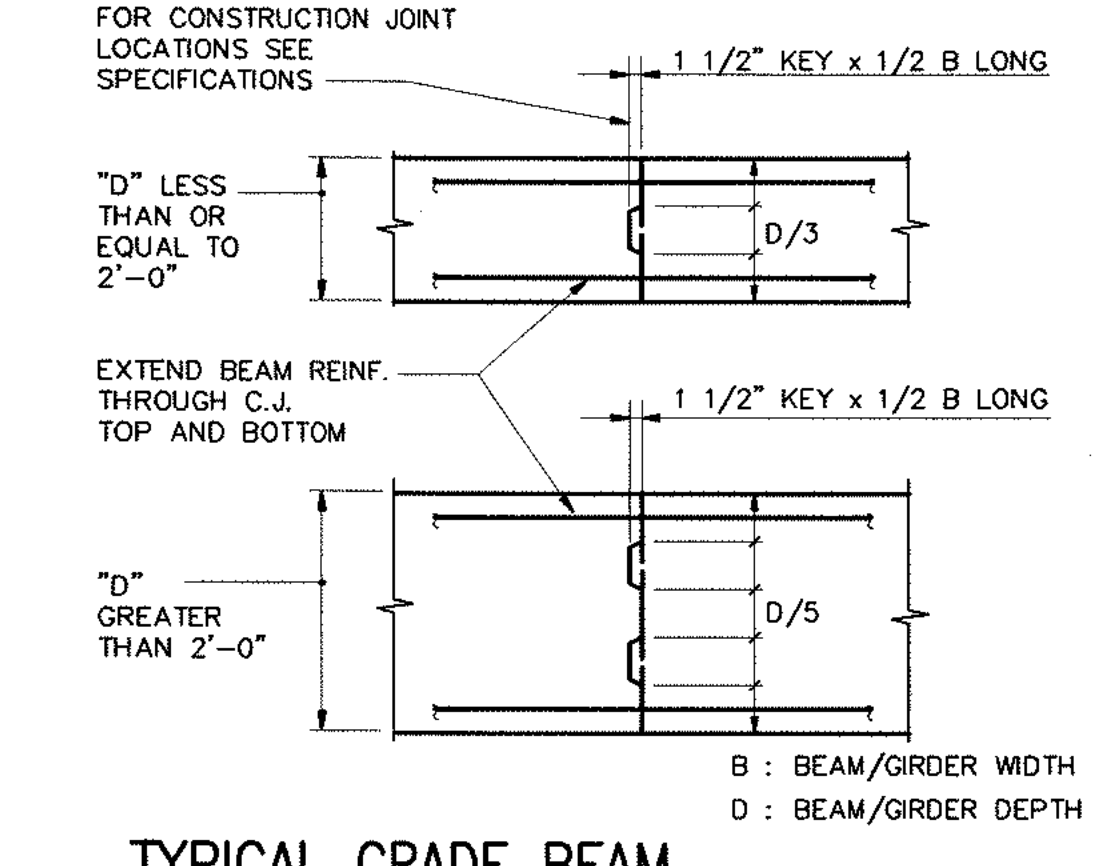
SLAB ON GRADE POUR PATTERN 14
NO SCALE \$5.01



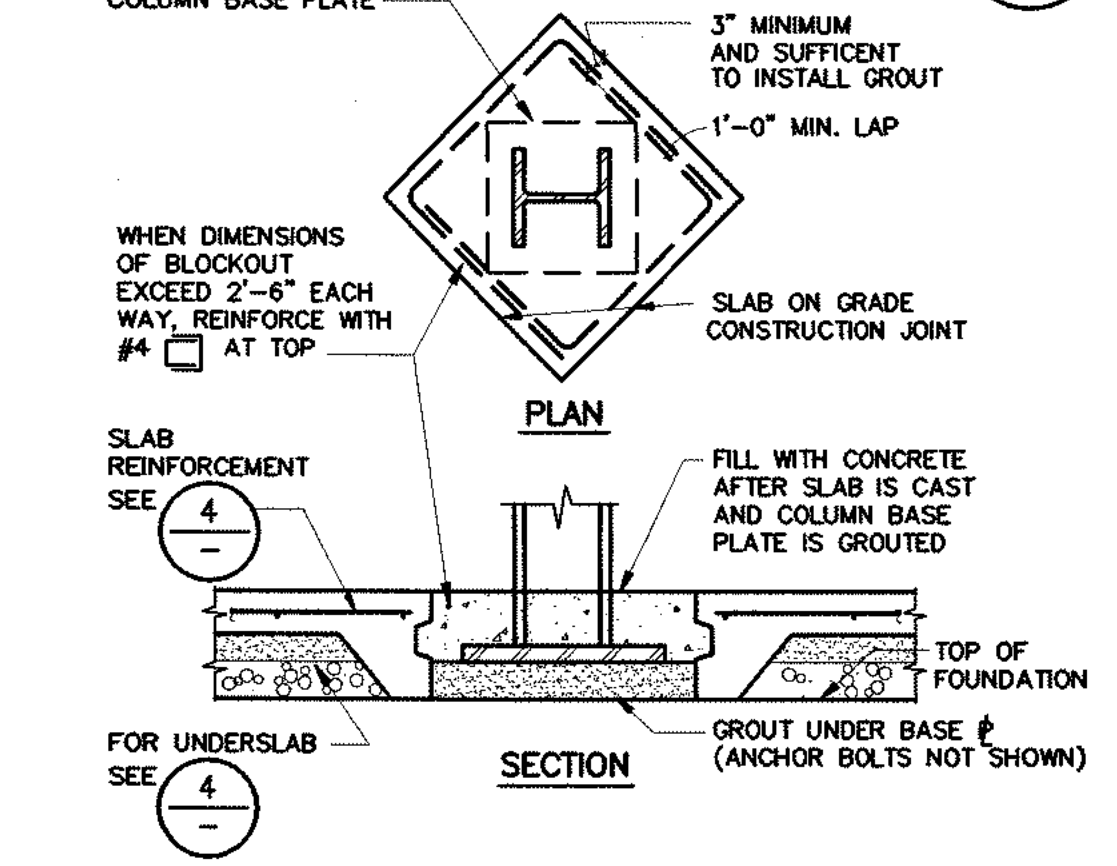
TYPICAL TRENCH AT SLAB ON GRADE 15
NO SCALE \$5.01



TYPICAL GRADE BEAM CONSTRUCTION JOINT 29
NO SCALE \$5.01



TYPICAL GRADE BEAM CONSTRUCTION JOINT 29
NO SCALE \$5.01



SLAB ON GRADE BLOCKOUT AT STEEL COLUMN 30
NO SCALE \$5.01



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Cupertino, CA 95014
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1600 Sacramento Inn Way
Suite 2
Sacramento, CA 95815
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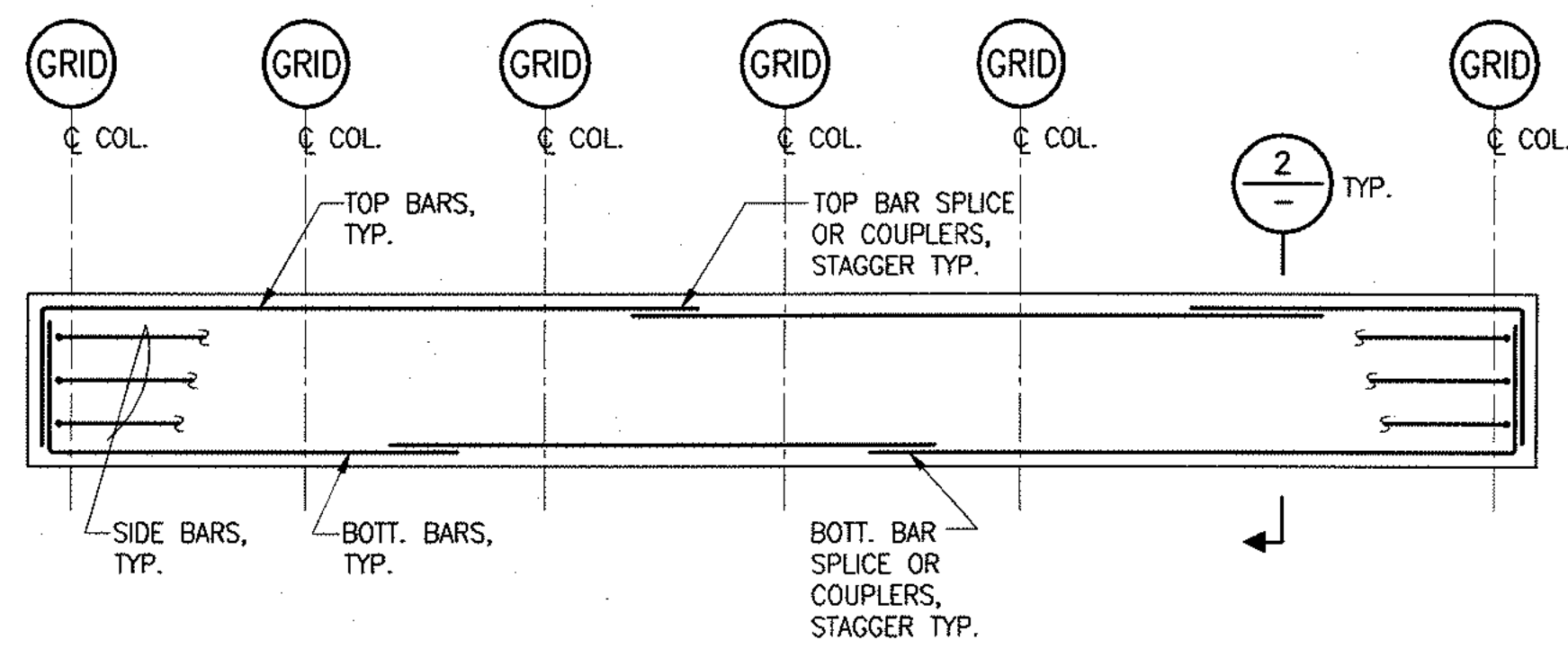
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TYPICAL CONCRETE DETAILS

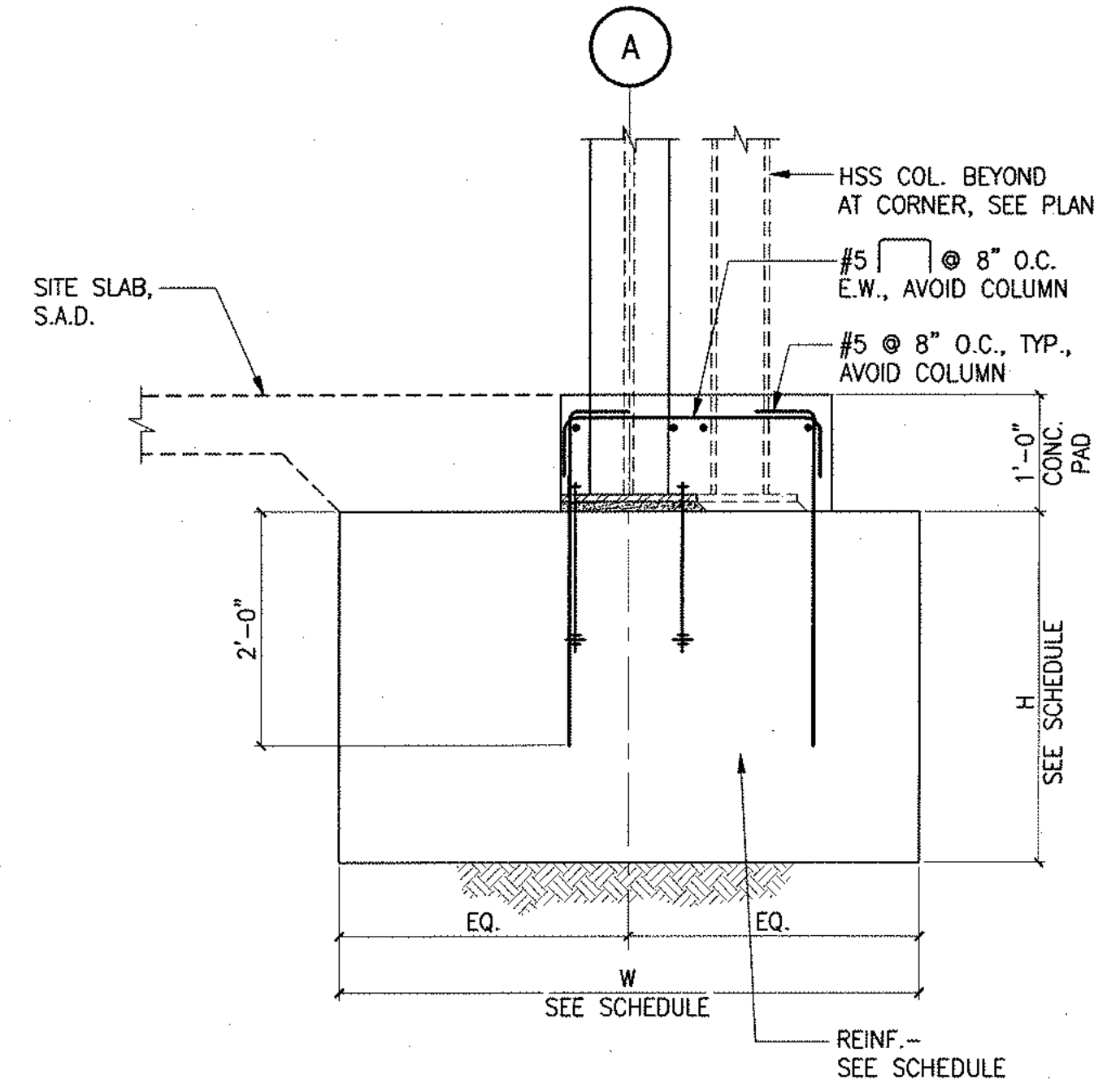
NO SCALE \$5.01



TYPICAL GRADE BEAM ELEVATION

NO SCALE

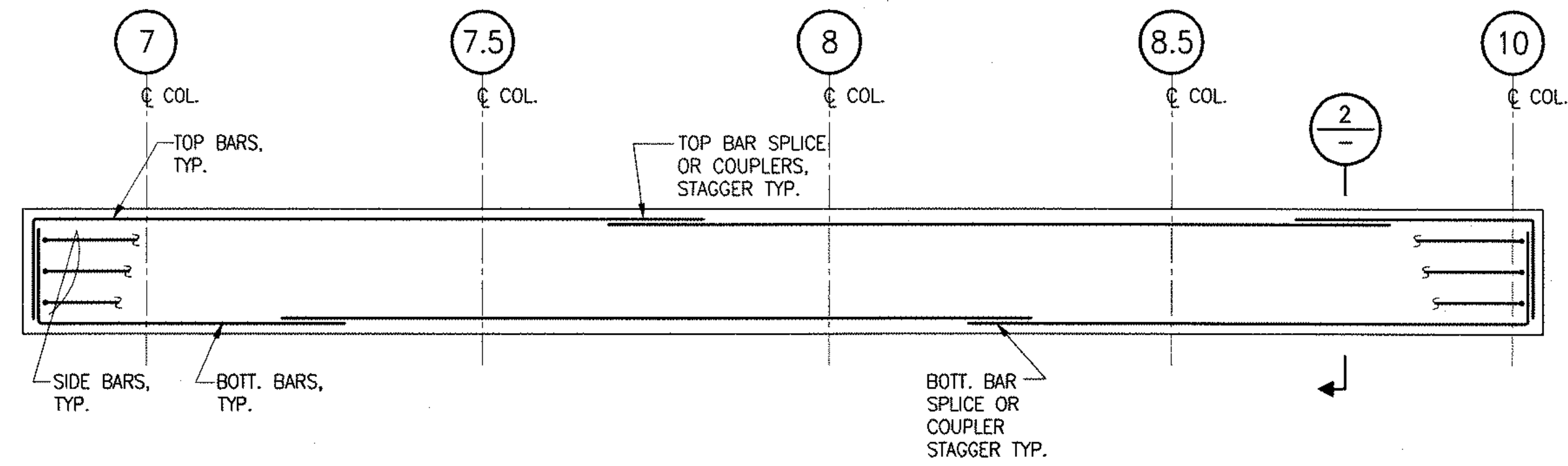
13
S5.02



SECTION

3/4"=1'-0"

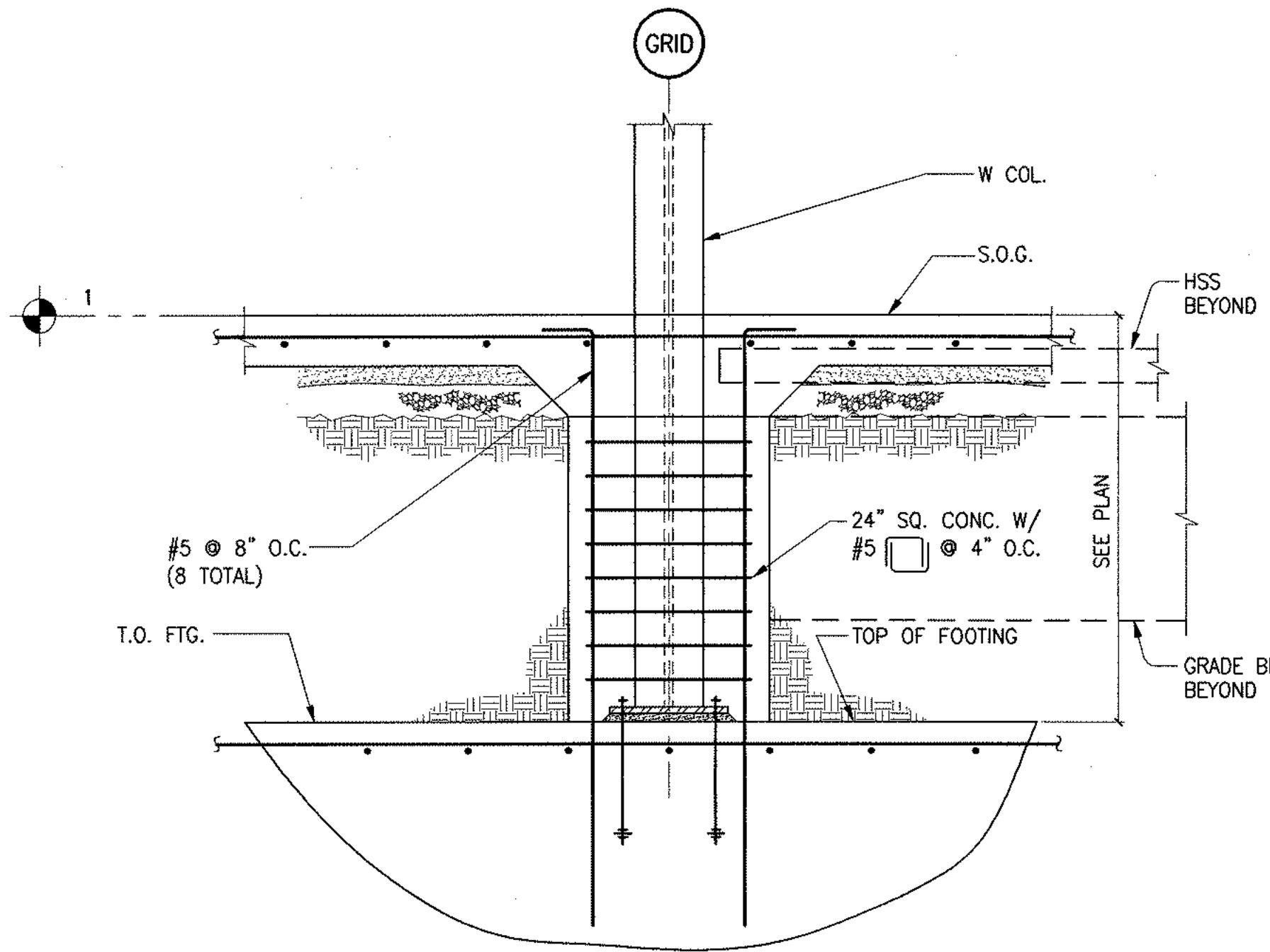
9
S5.02



GB4 ELEVATION - GRADE BEAM AT LINE (B)

NO SCALE

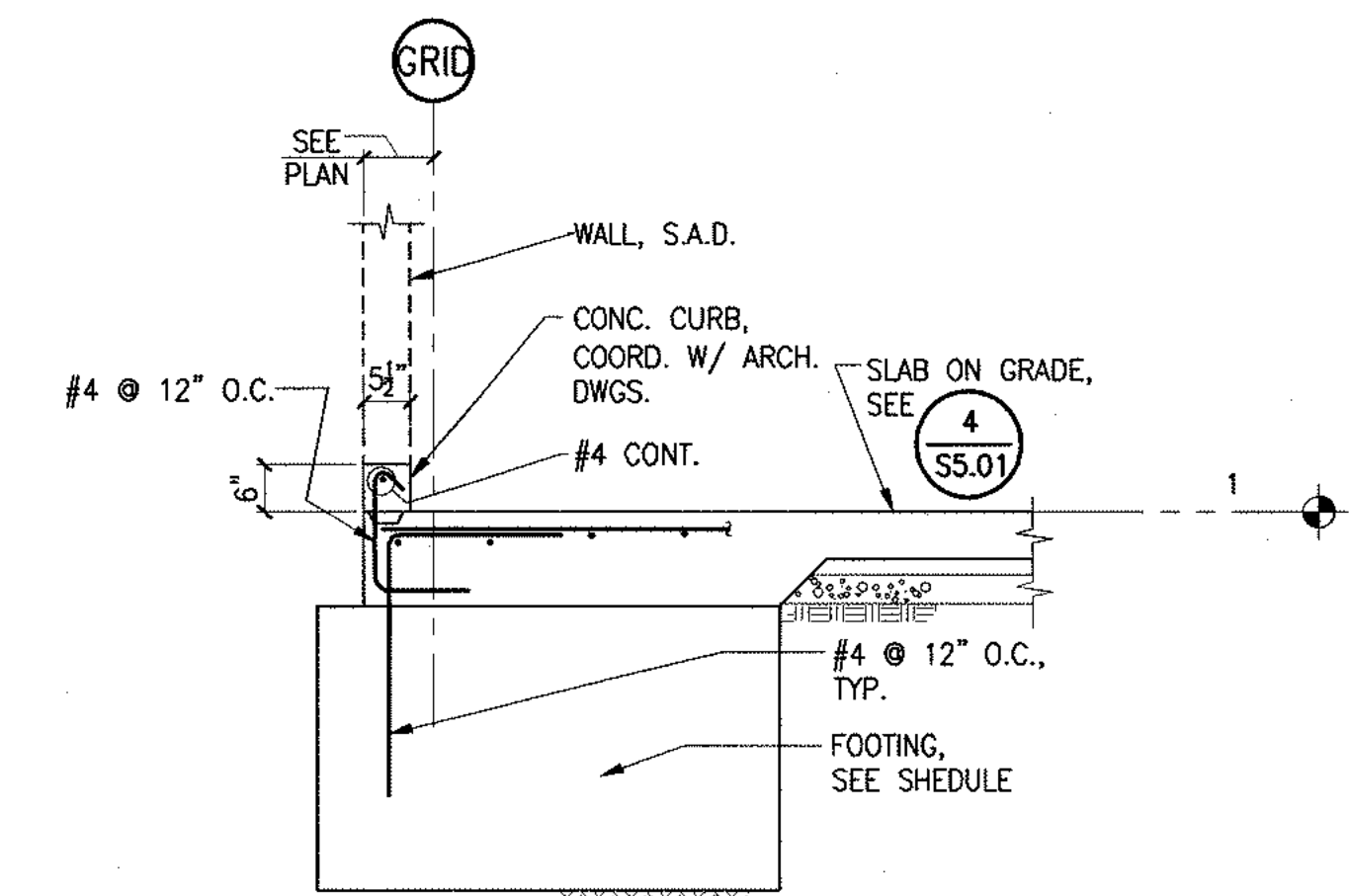
14
S5.02



SECTION AT LOWERED FOOTING

3/4"=1'-0"

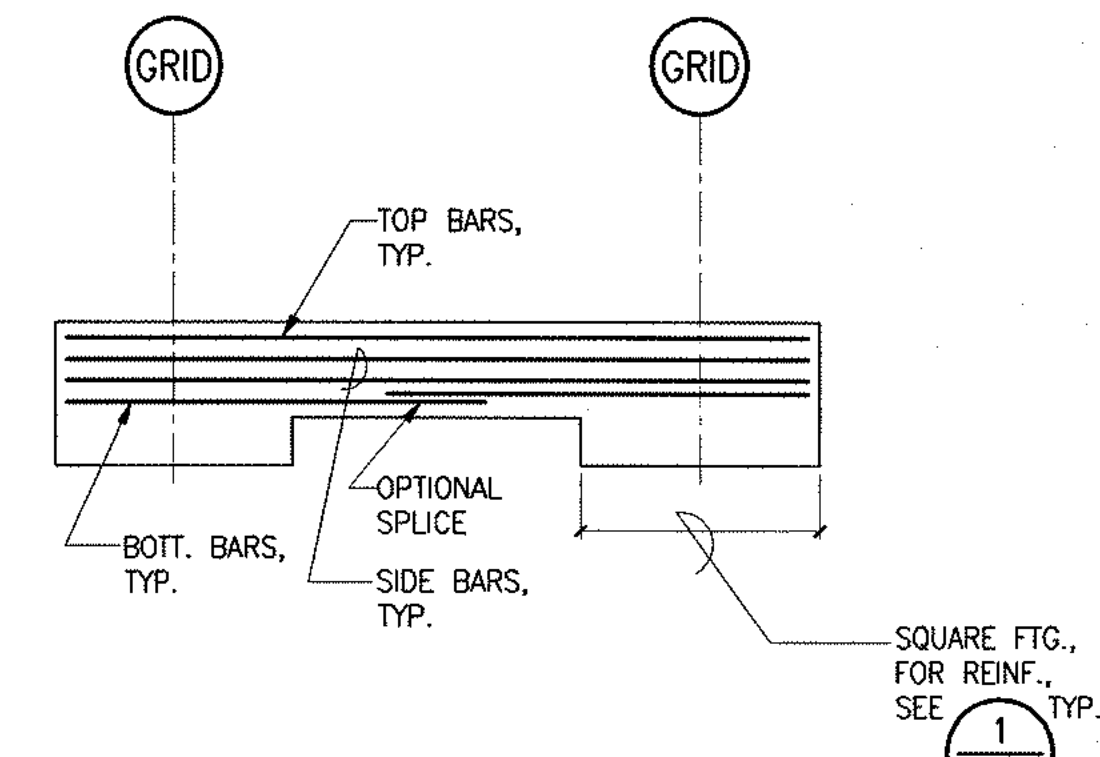
10
S5.02



SECTION @ CONC. CURB

1/2"=1'-0"

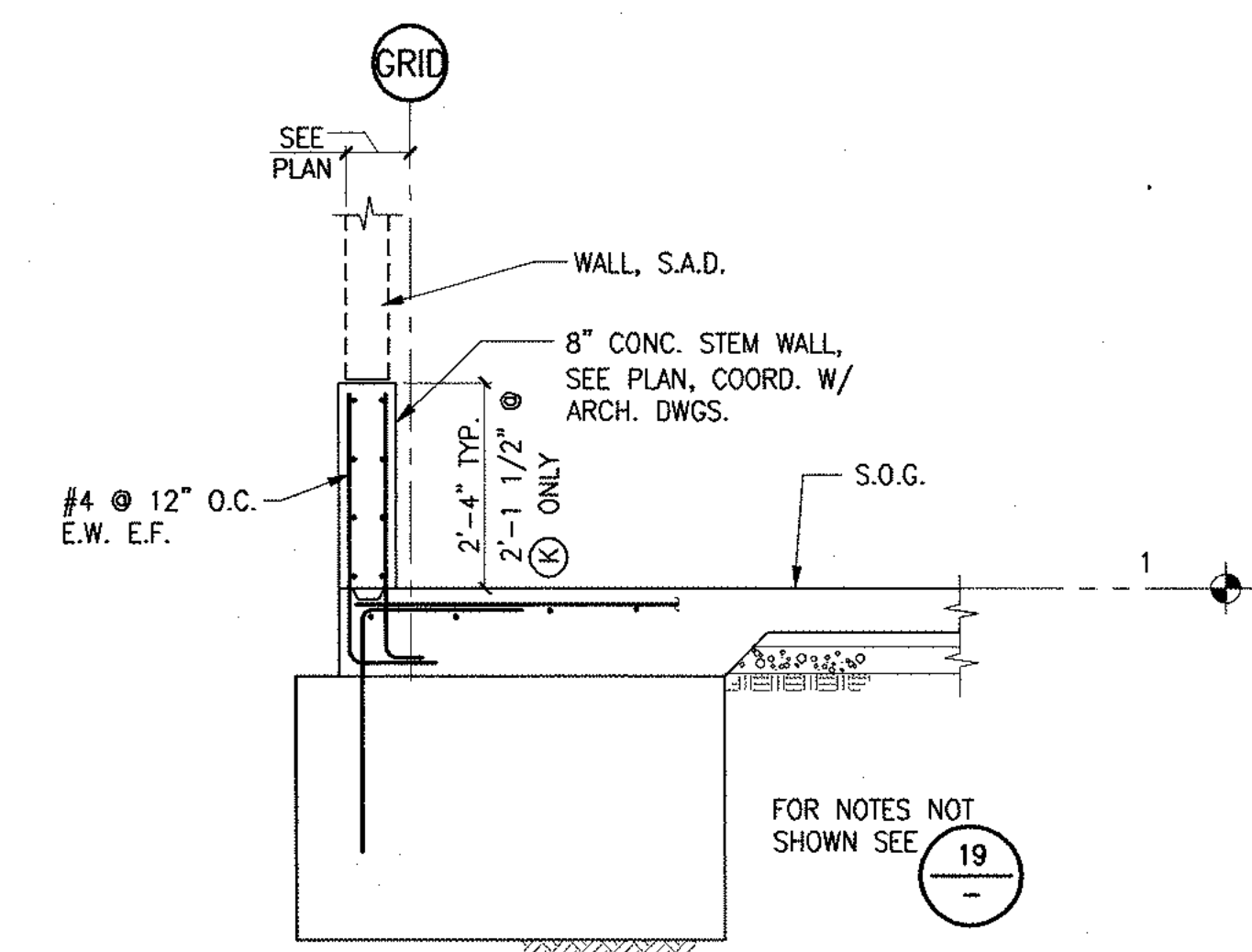
19
S5.02



GB2 AT LINES 4 & D
TYPICAL TIE BEAM ELEVATION

NO SCALE

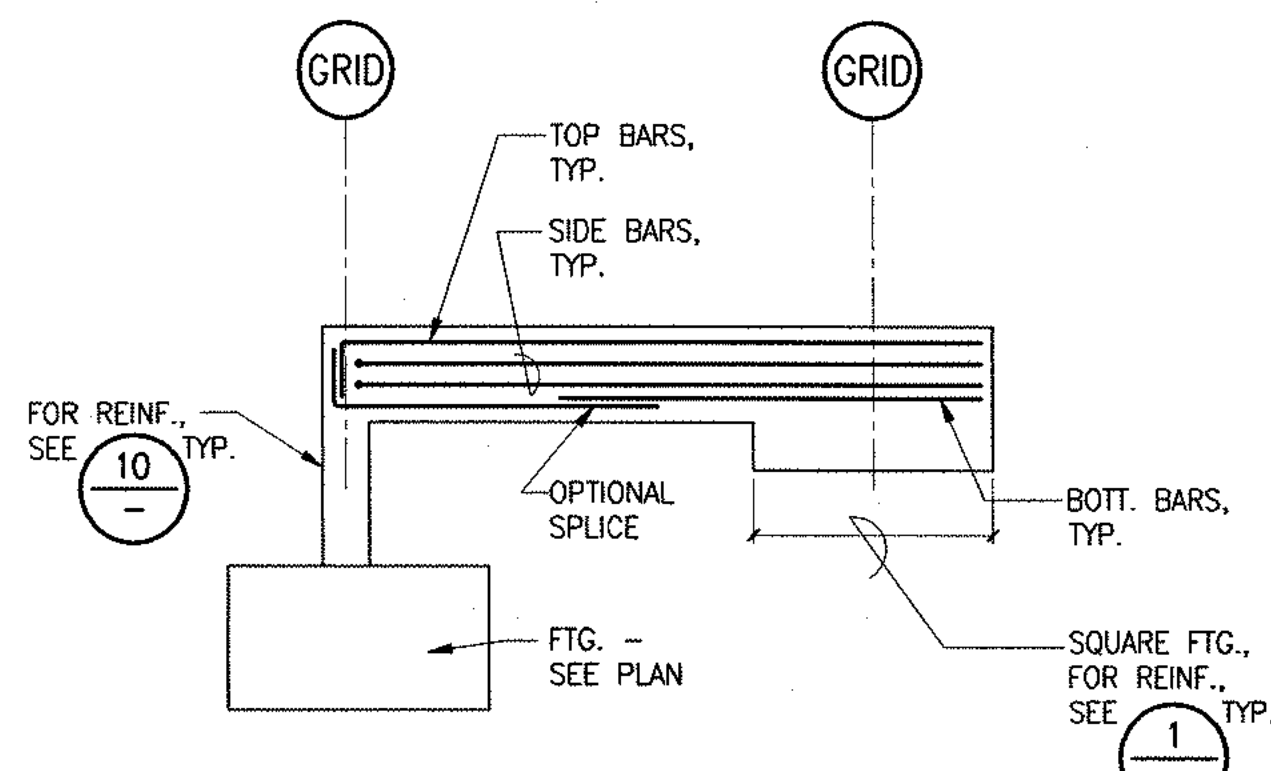
15
S5.02



SECTION @ CONC. STEM WALL

1/2"=1'-0"

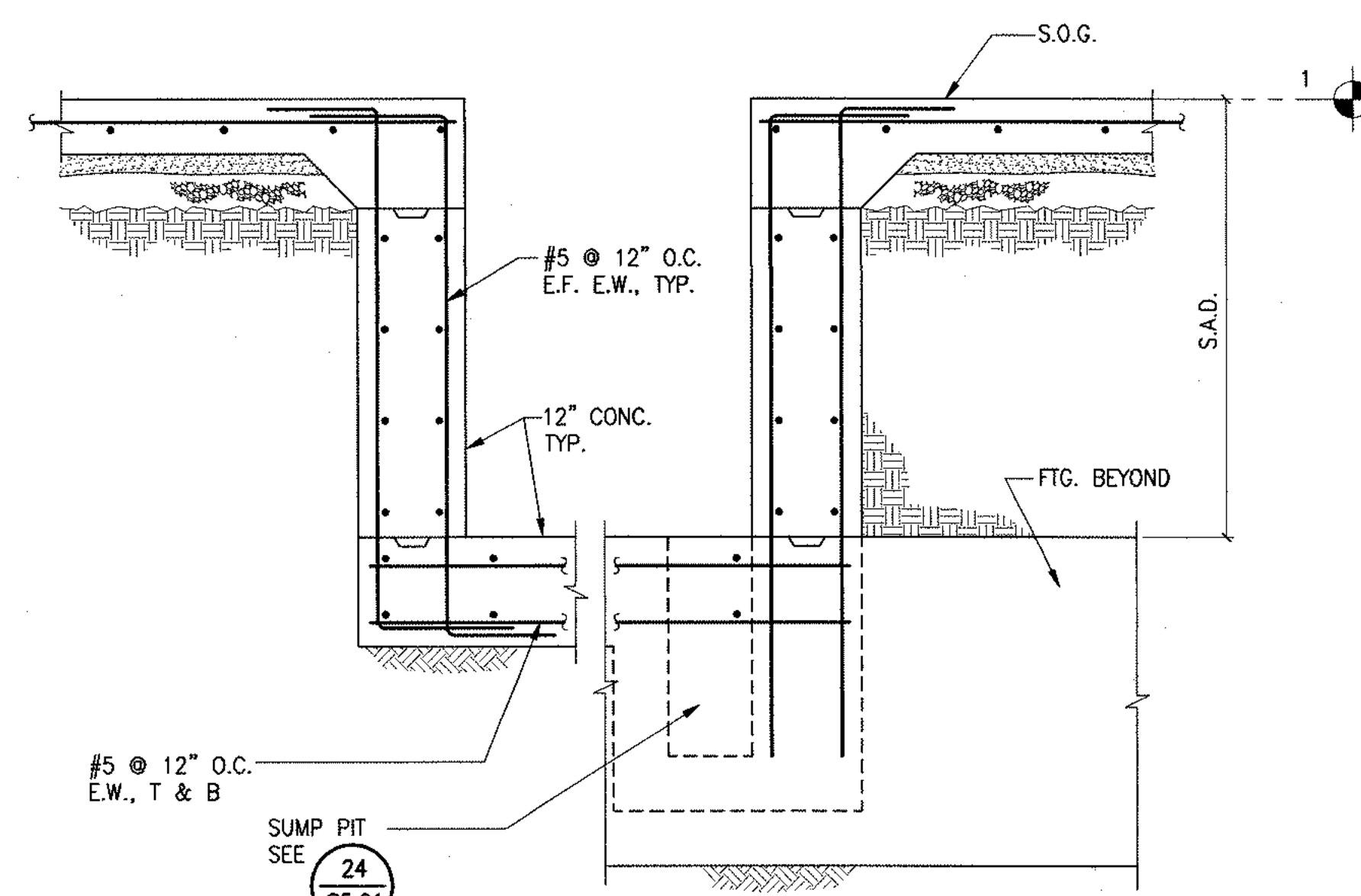
20
S5.02



TIE BEAM ELEVATION LINE D

NO SCALE

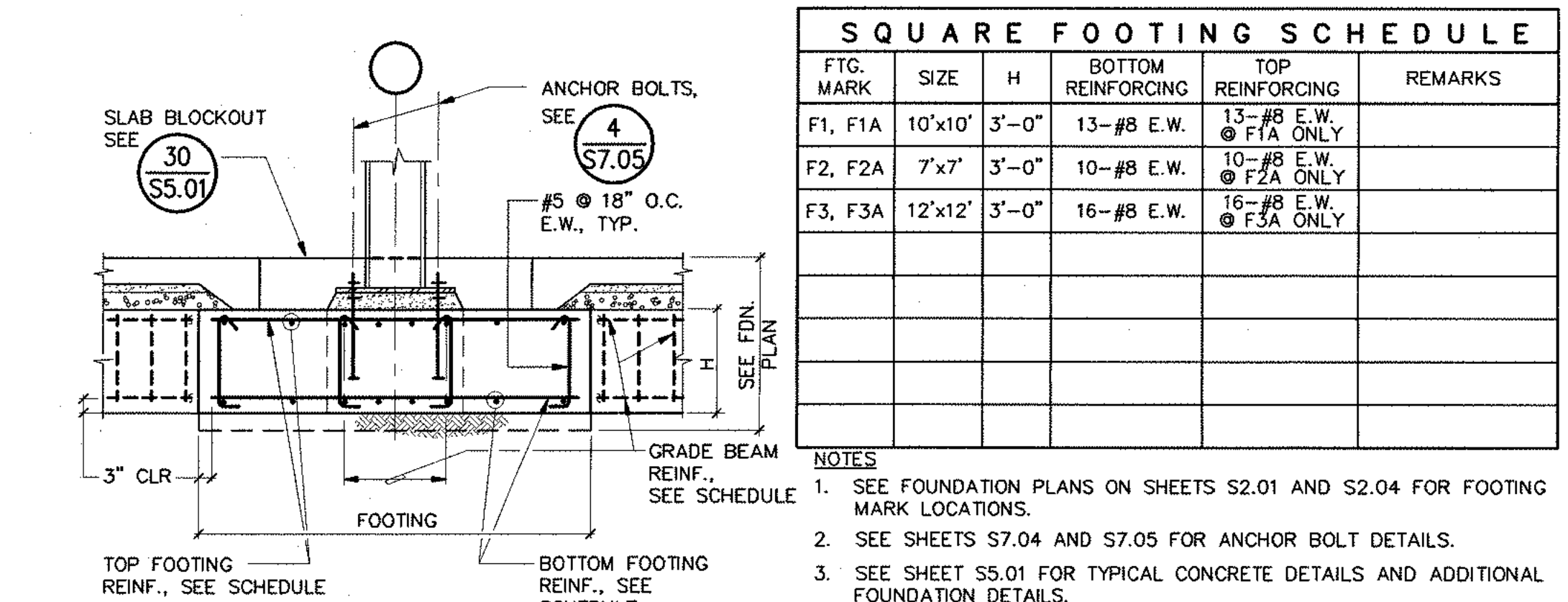
16
S5.02



SECTION AT ELEVATOR PIT

3/4"=1'-0"

12
S5.02



TYPICAL COLUMN SQUARE FOOTINGS WITH GRADE BEAM (SIM. WITHOUT GRADE BEAMS)

NO SCALE

1
S5.02

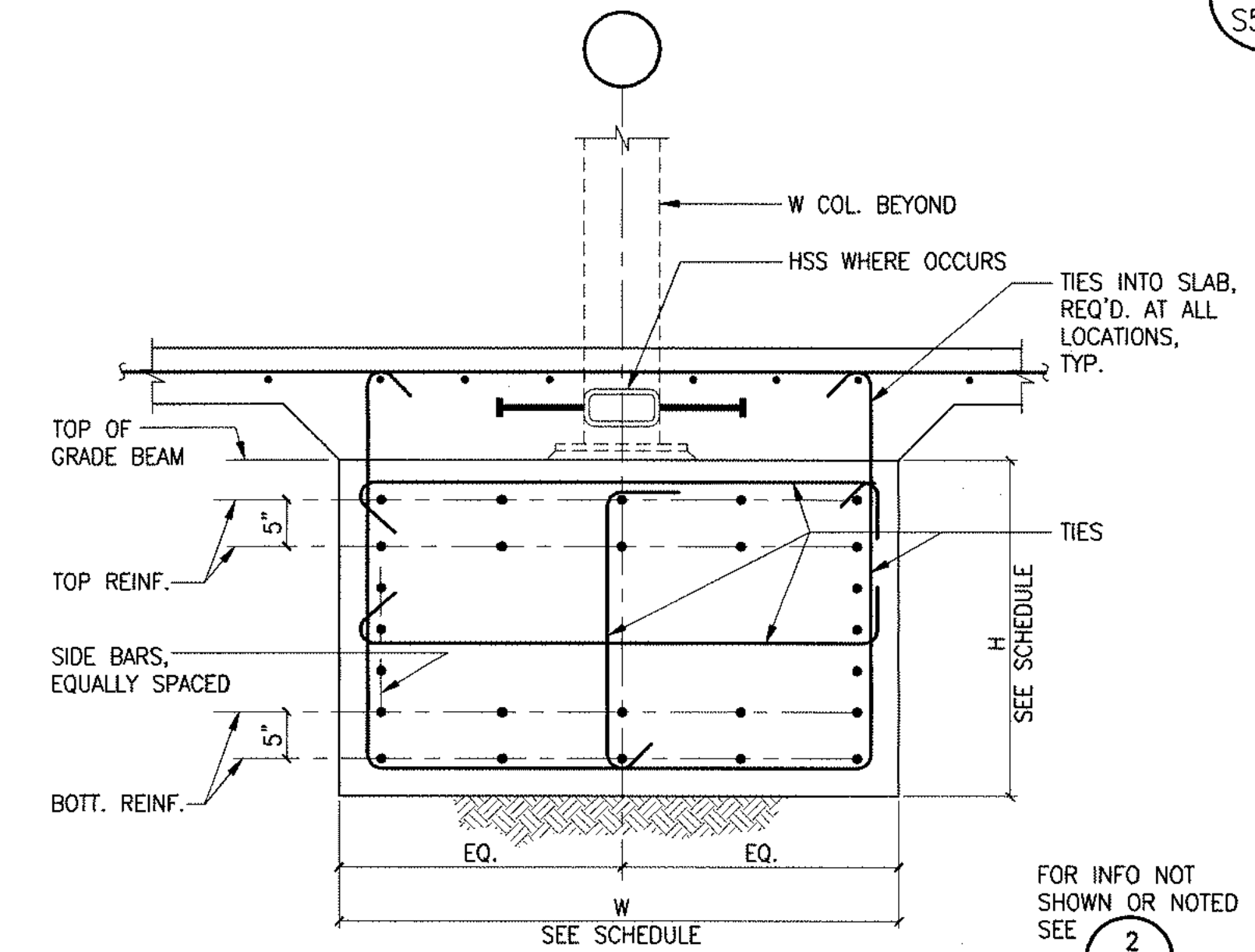
GRADE BEAM SCHEDULE						
MARK	H	W	BOTT. BARS	TOP BARS	SIDE BARS	TIES
GB1	3'-0"	5'-0"	10-#9	10-#9	3-#6	#5@12
GB2	2'-0"	2'-0"	5-#7	5-#7	2-#6	#4@12
GB3	2'-0"	3'-0"	6-#7	6-#7	2-#6	#5@12
GB4	4'-0"	8'-0"	14-#11	14-#11	4-#6	#5@12
GB5	2'-0"	4'-0"	6-#8	6-#8	2-#6	#5@12

1. SEE FOUNDATION PLANS FOR GRADE BEAM MARKS, LOCATIONS AND TOP OF CONCRETE ELEVATION.

TYPICAL GRADE BEAMS AND SCHEDULE

NO SCALE

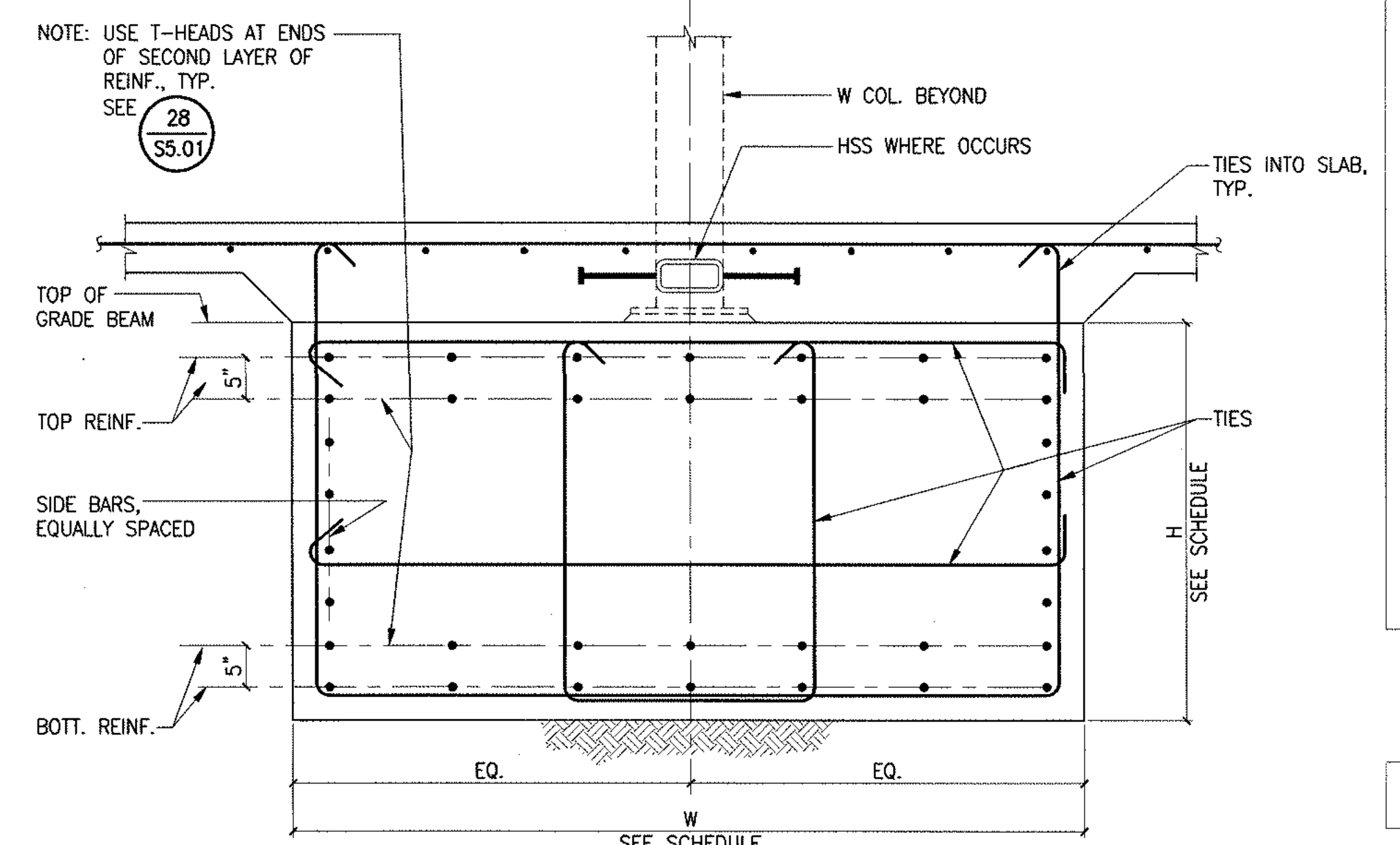
2
S5.02



SECTION AT GRADE BEAM - GB1

3/4"=1'-0"

3
S5.02



SECTION AT GRADE BEAM - GB4

3/4"=1'-0"

4
S5.02

SQUARE FOOTING SCHEDULE					
FTG. MARK	SIZE	H	BOTTOM REINFORCING	TOP REINFORCING	REMARKS
F1, F1A	10'x10'	3'-0"	13-#8 E.W.	13-#8 E.W. @ F1A ONLY	
F2, F2A	7'x7'	3'-0"	10-#8 E.W.	10-#8 E.W. @ F2A ONLY	
F3, F3A	12'x12'	3'-0"	16-#8 E.W.	16-#8 E.W. @ F3A ONLY	

- NOTES
- SEE FOUNDATION PLANS ON SHEETS S2.01 AND S2.04 FOR FOOTING MARK LOCATIONS.
 - SEE SHEETS S7.04 AND S7.05 FOR ANCHOR BOLT DETAILS.
 - SEE SHEET S5.01 FOR TYPICAL CONCRETE DETAILS AND ADDITIONAL FOUNDATION DETAILS.
 - ALL FOOTINGS AND GRADE BEAMS ARE CENTERED ON GRID LINES UNLESS DIMENSIONED OTHERWISE ON PLAN DETAILS.

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City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandier Humber Jones
1600 Sacramento Inn Way
Suite 2
Sacramento, CA 95815
916 929 9290 T
916 929 9541 F

Hargraves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

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160 Fine Street
San Francisco, CA 94111
415 837 0700 T
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343 Sansome Street
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San Francisco, CA 94104
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11-29-04 Updated Contract Documents

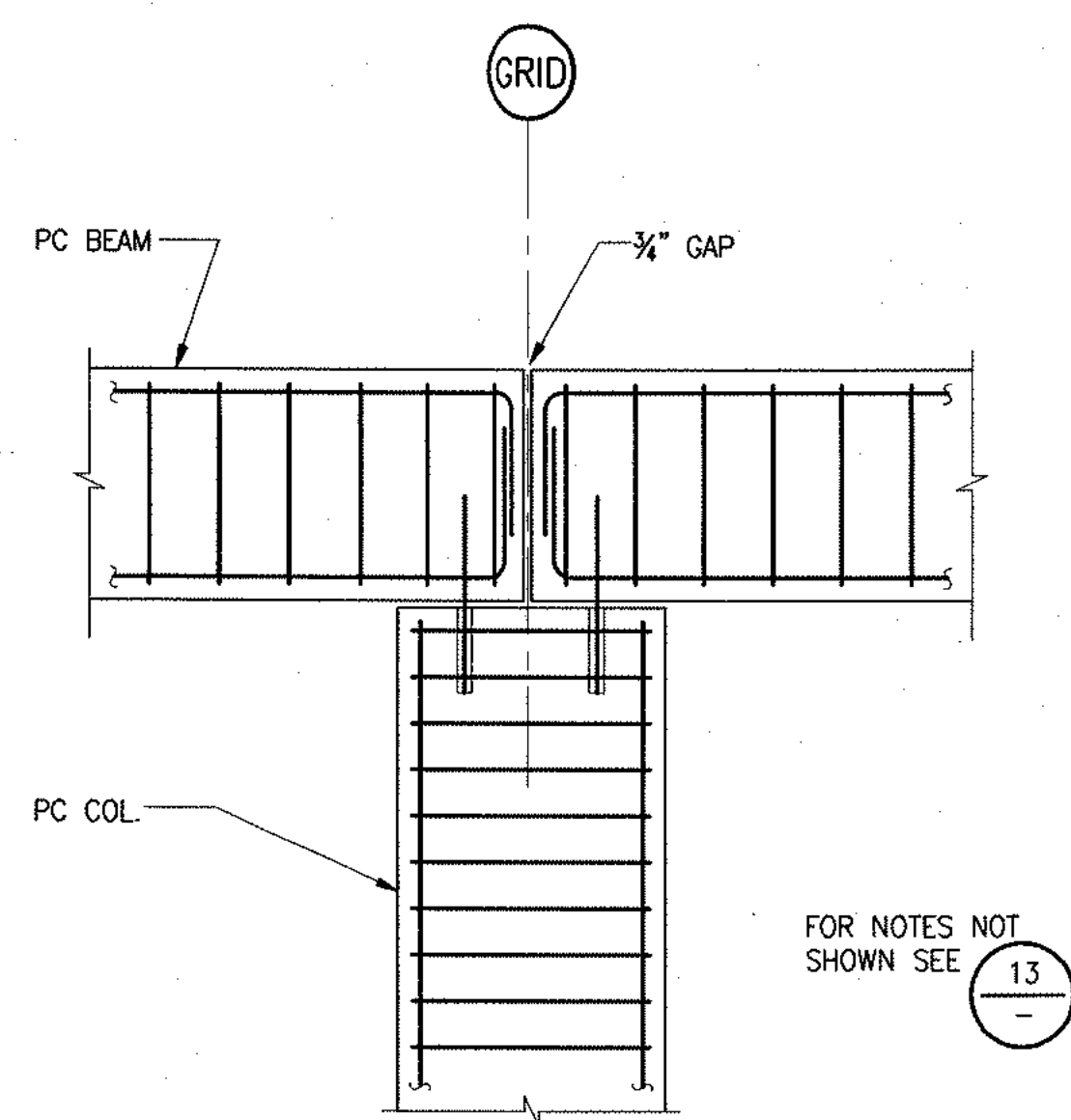


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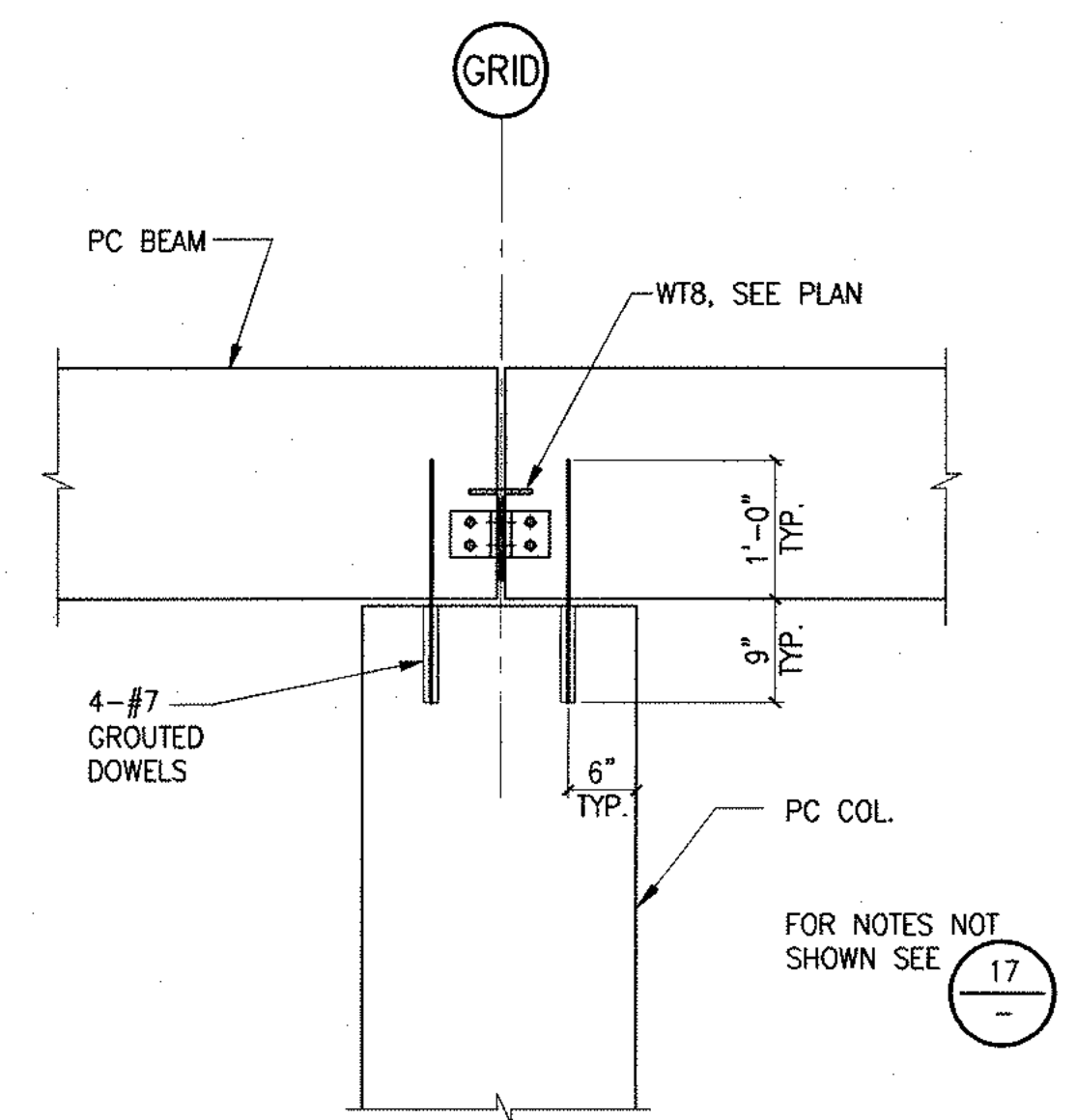
CONCRETE DETAILS

scale NO SCALE date 2003.04.18
drawn by KRLopez project number 1035
sheet number

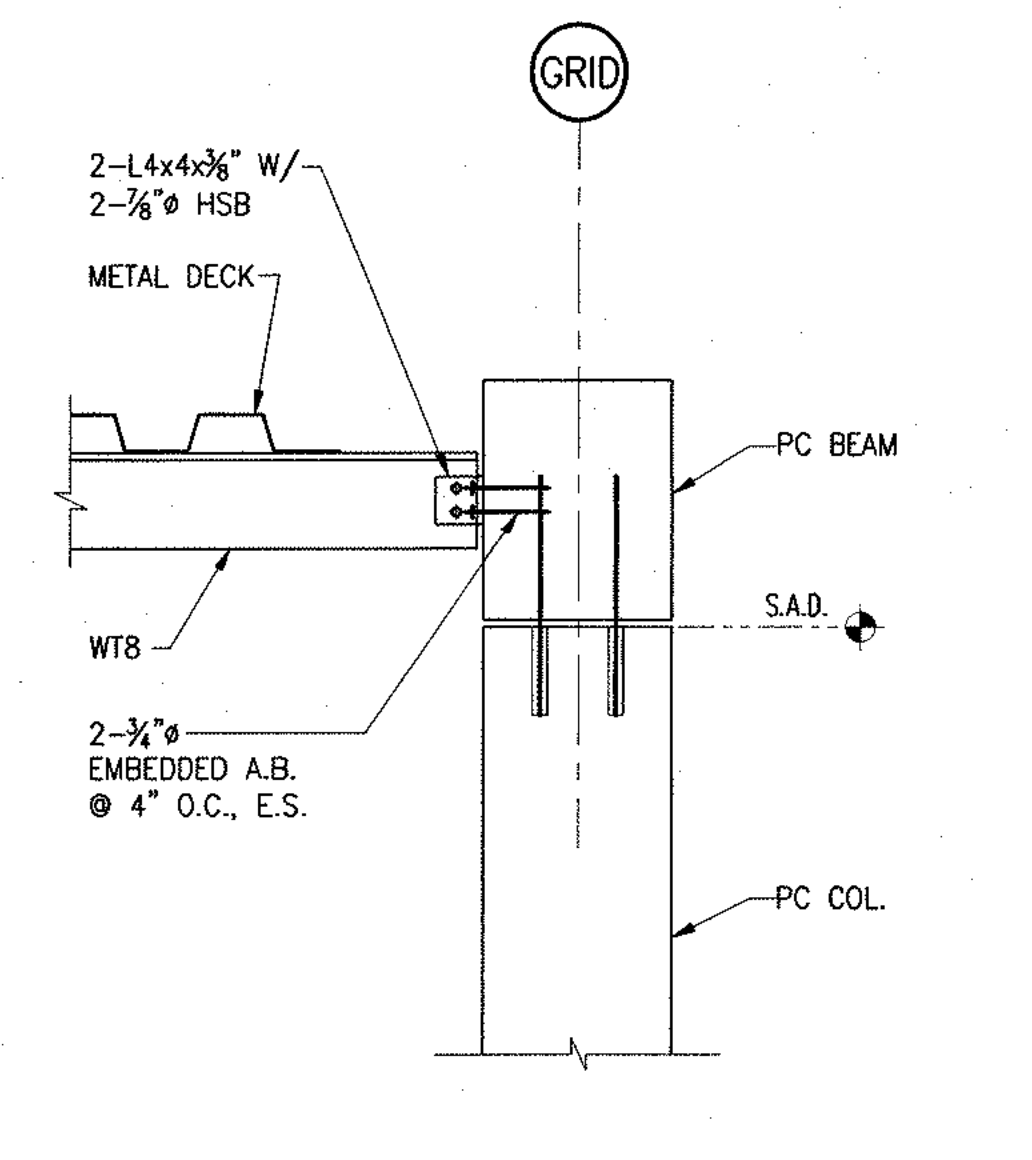
S5.02



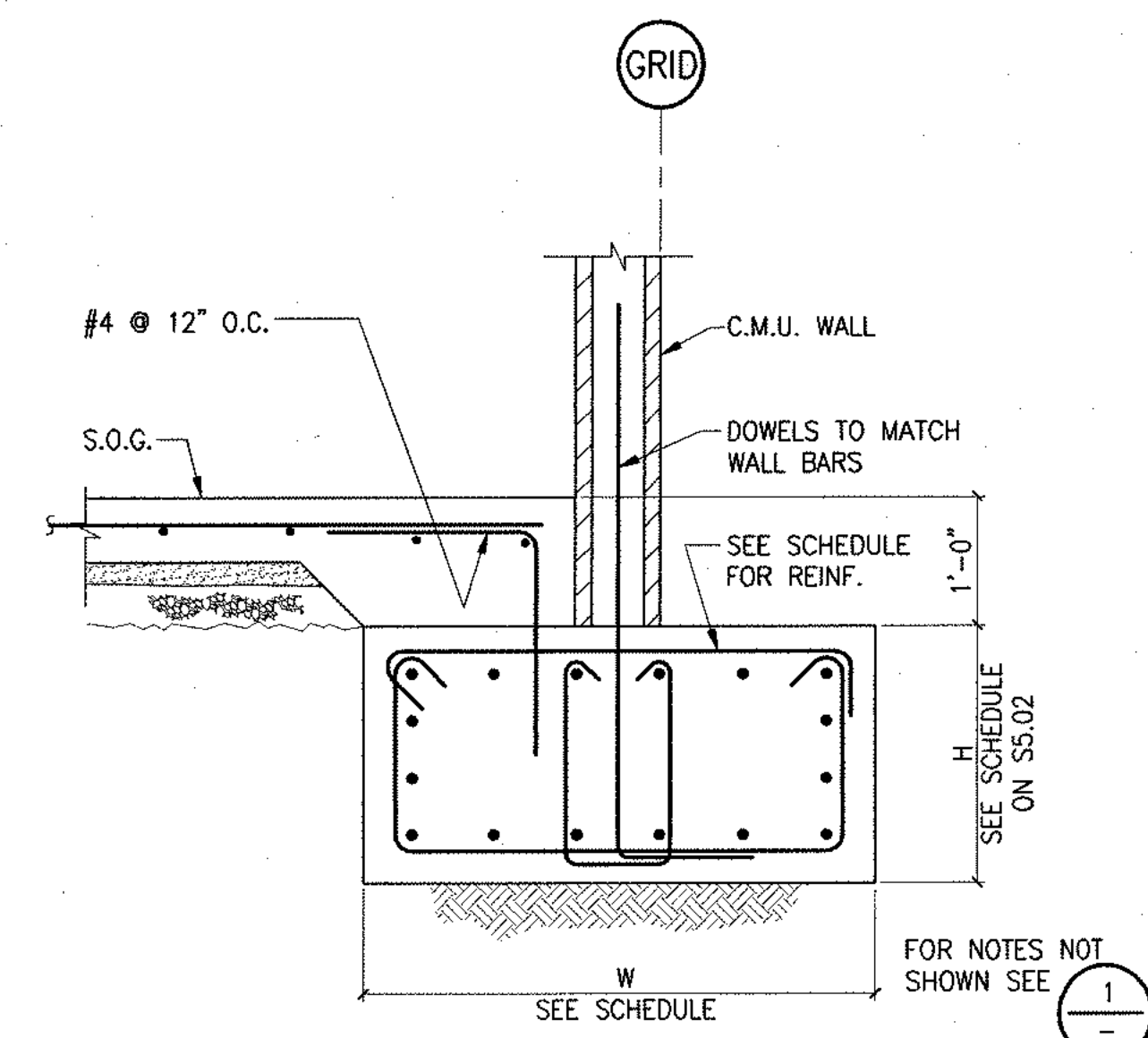
DETAIL 17
3/4"=1'-0"
S5.03



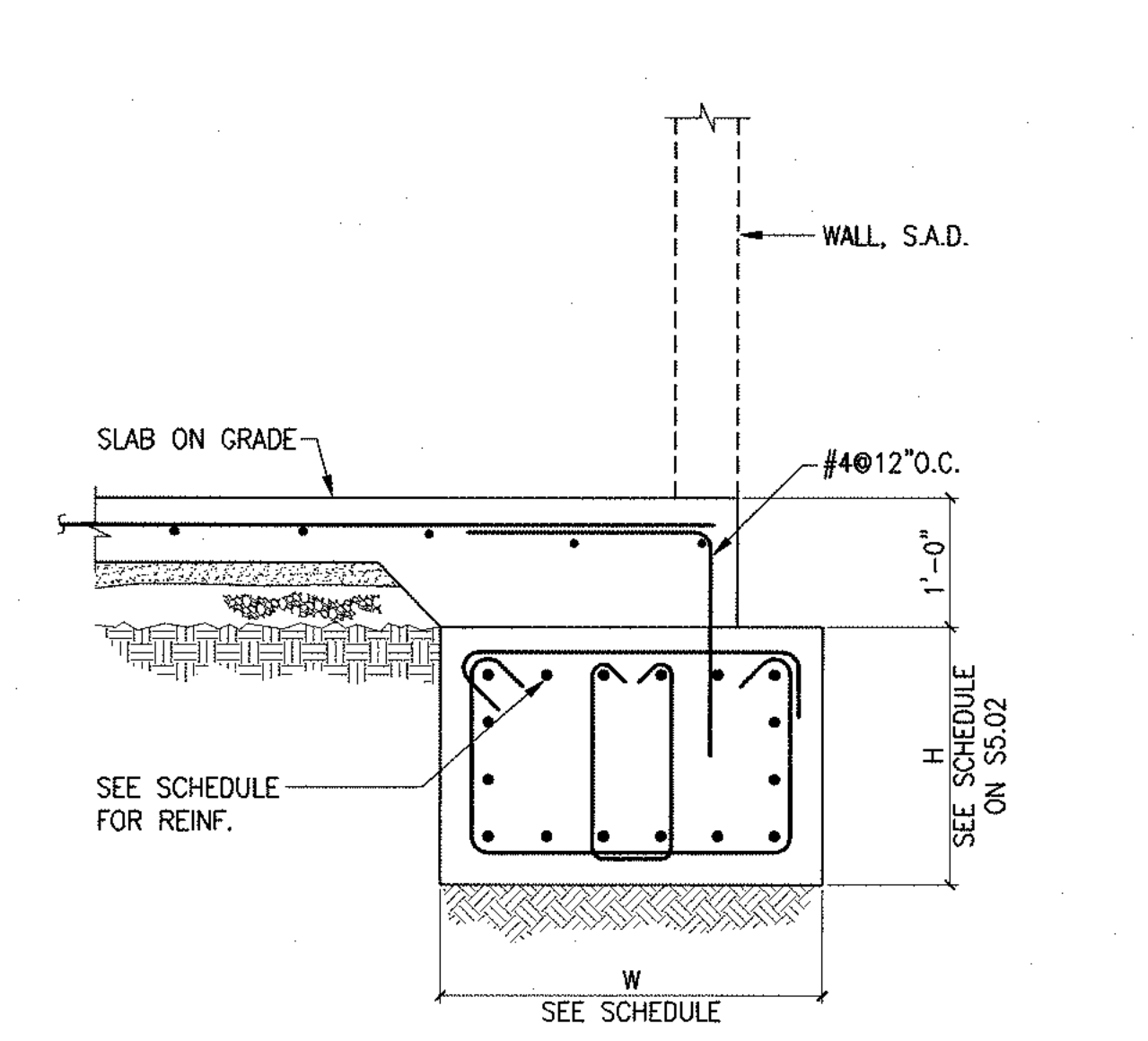
DETAIL 13
3/4"=1'-0"
S5.03



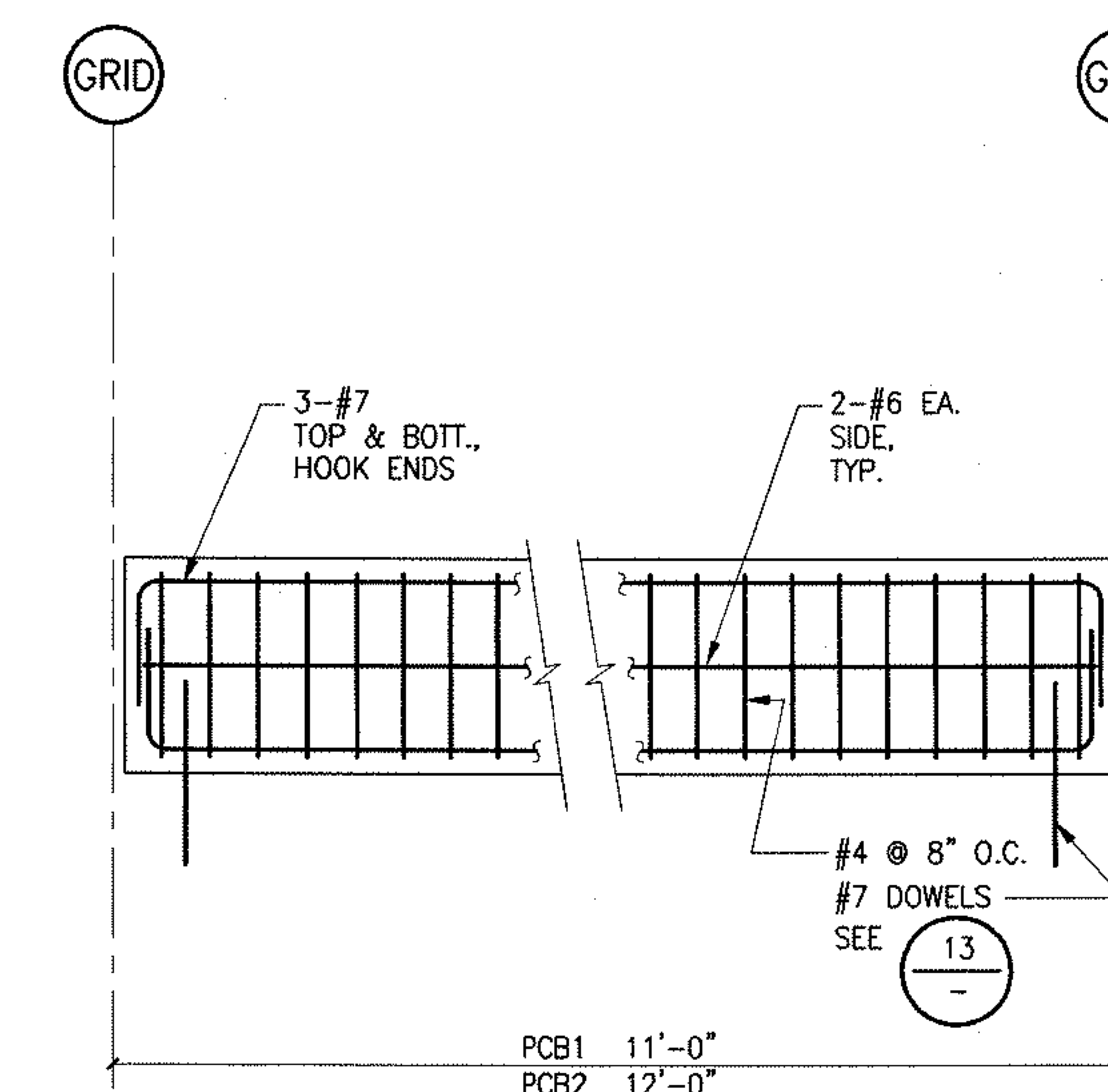
DETAIL 9
3/4"=1'-0"
S5.03



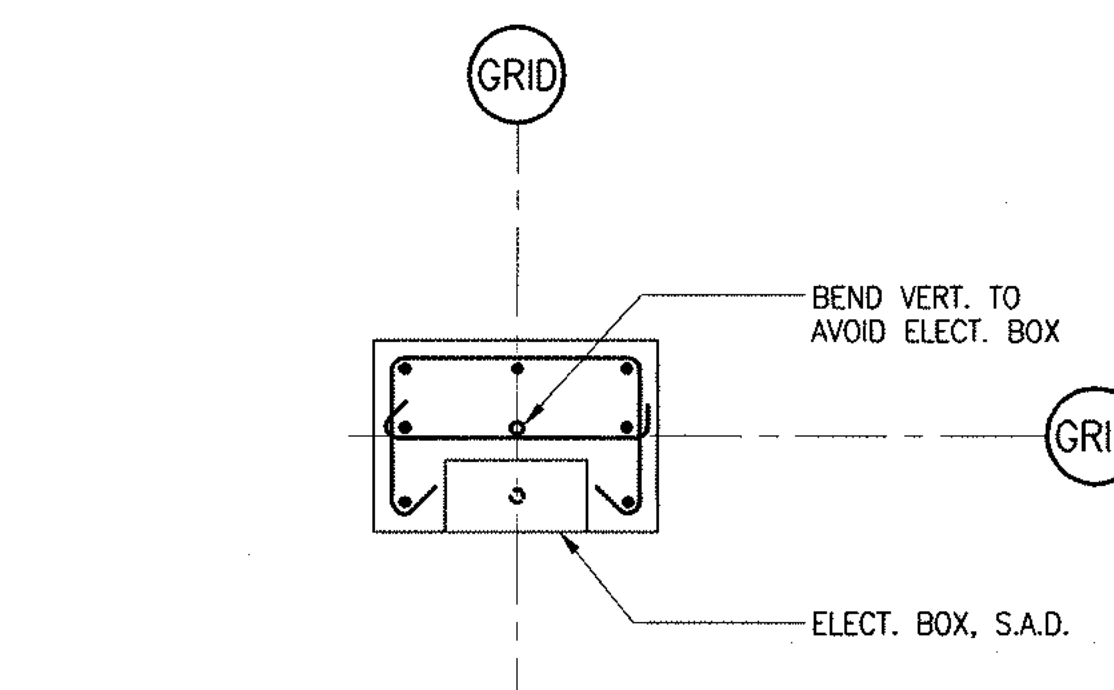
SECTION 5
3/4"=1'-0"
S5.03



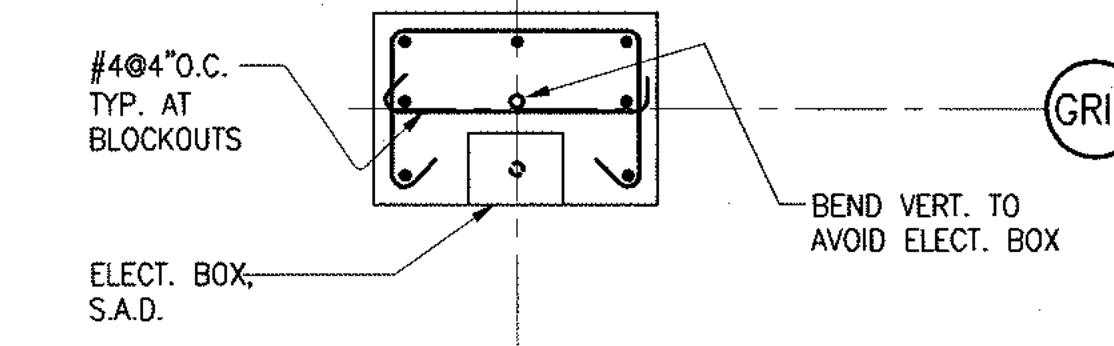
SECTION 1
3/4"=1'-0"
S5.03



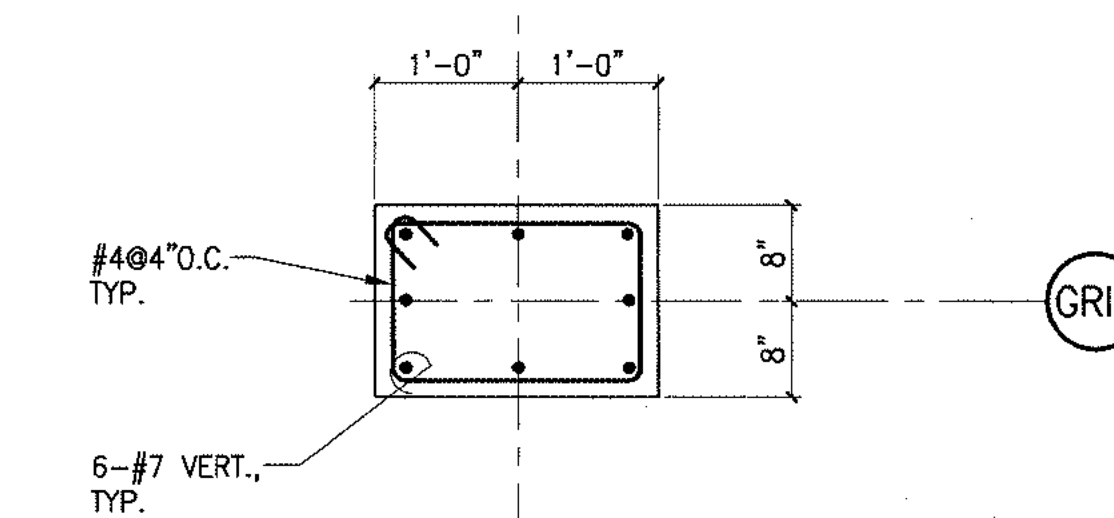
PC BEAM ELEV. 18
3/4"=1'-0"
S5.03



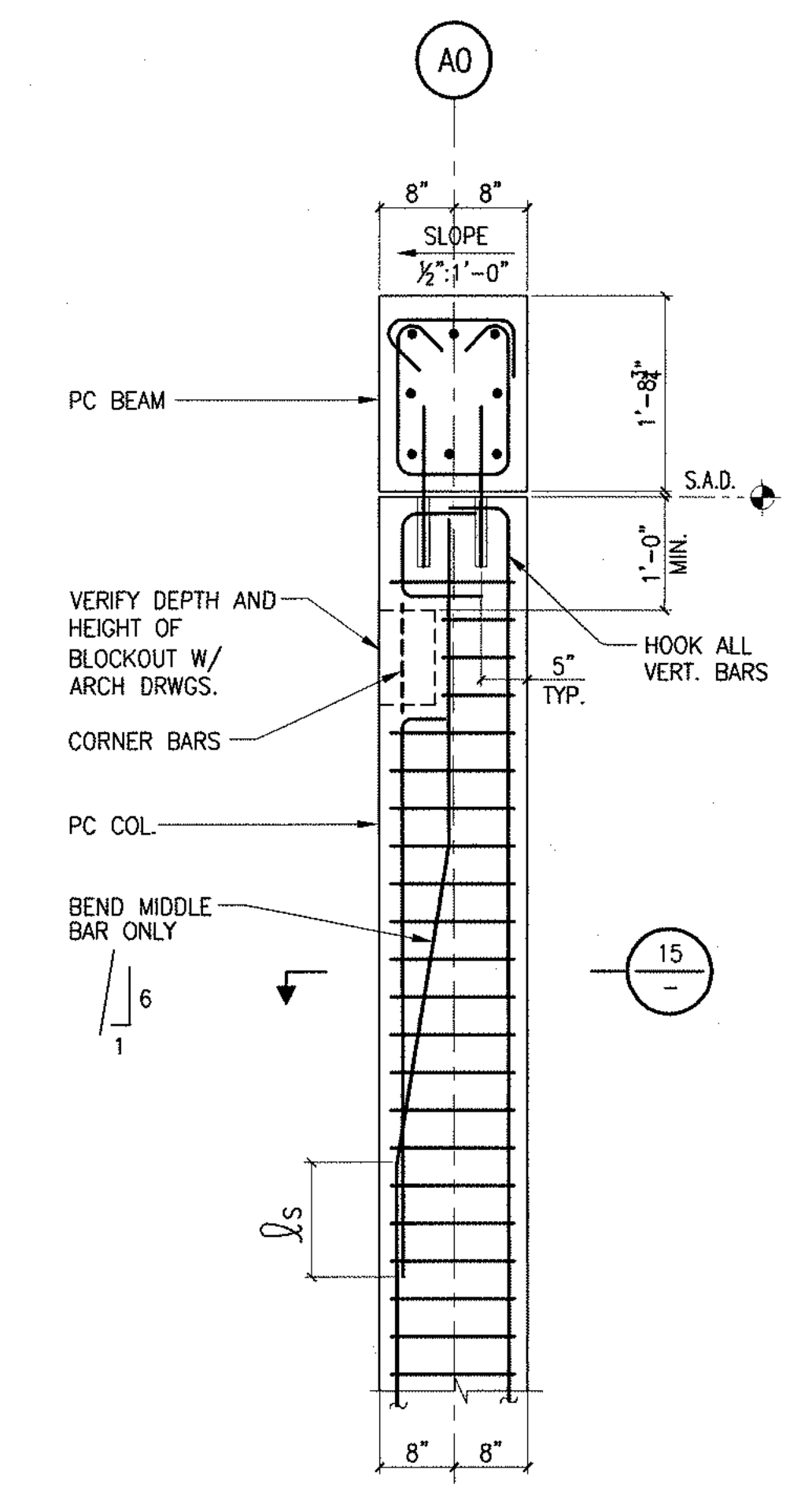
PLAN-PCC3



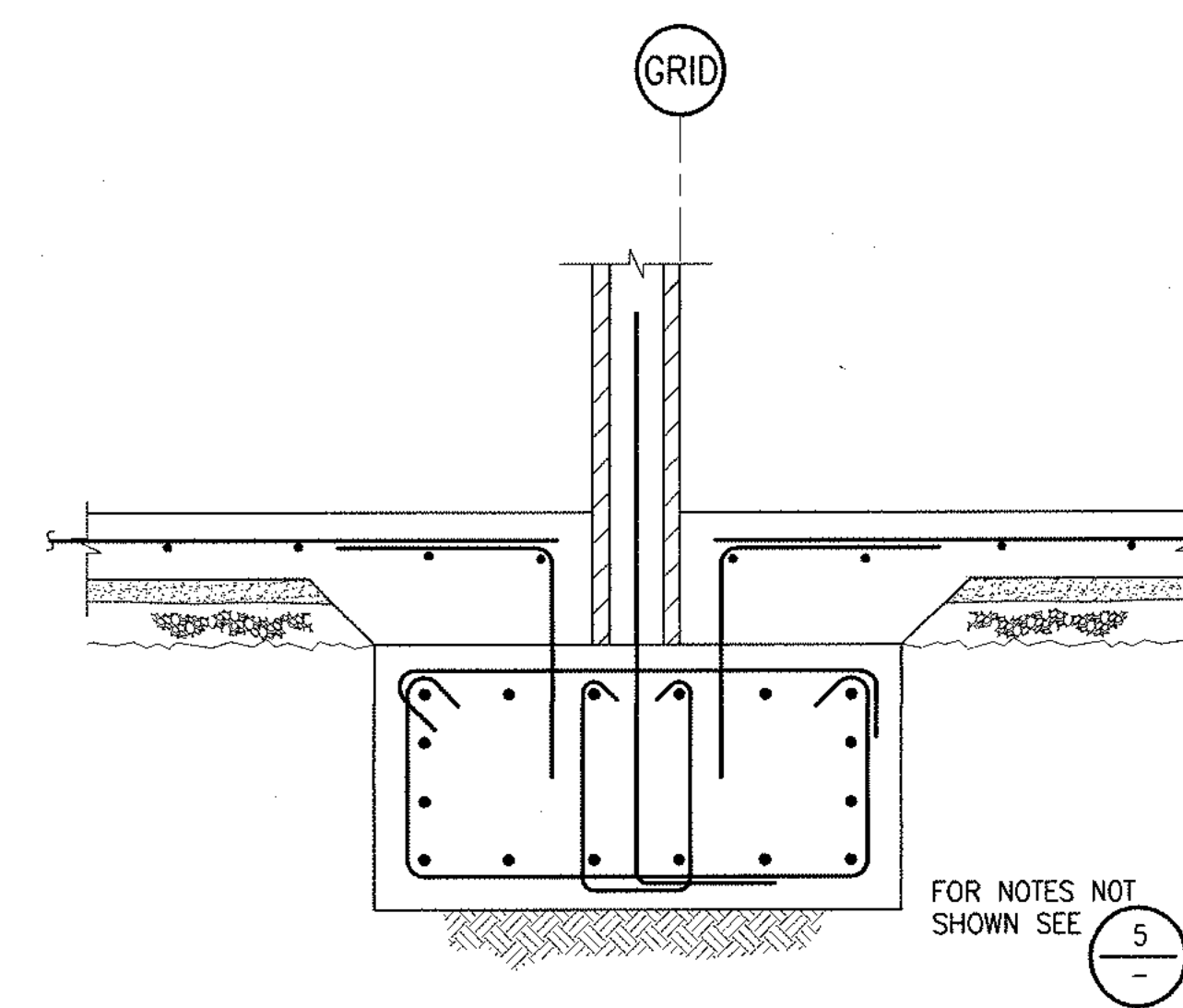
PLAN-PCC1, PCC3



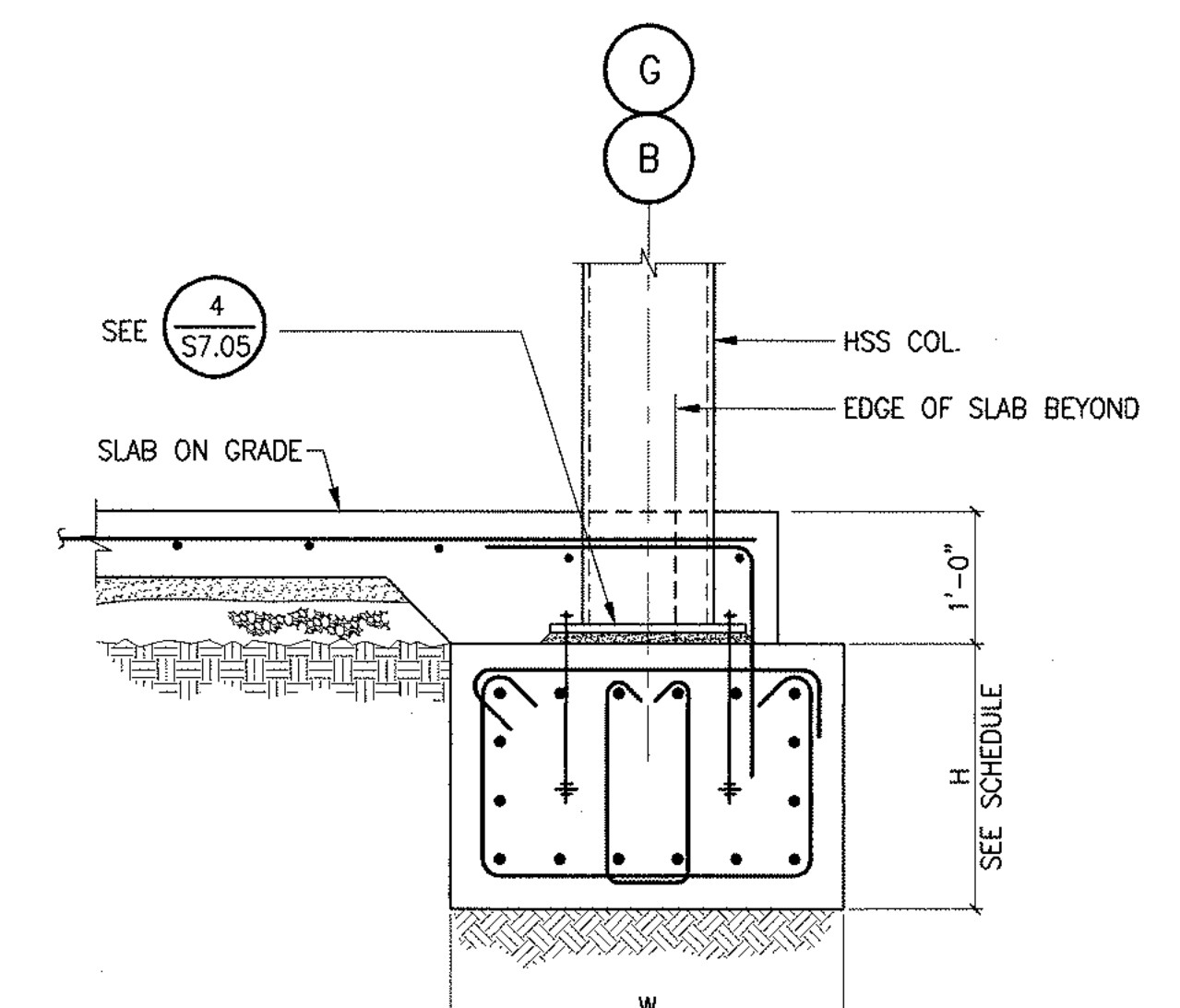
PLAN-TYPICAL



DETAIL AT PCC1 & PCC3 10
3/4"=1'-0"
S5.03

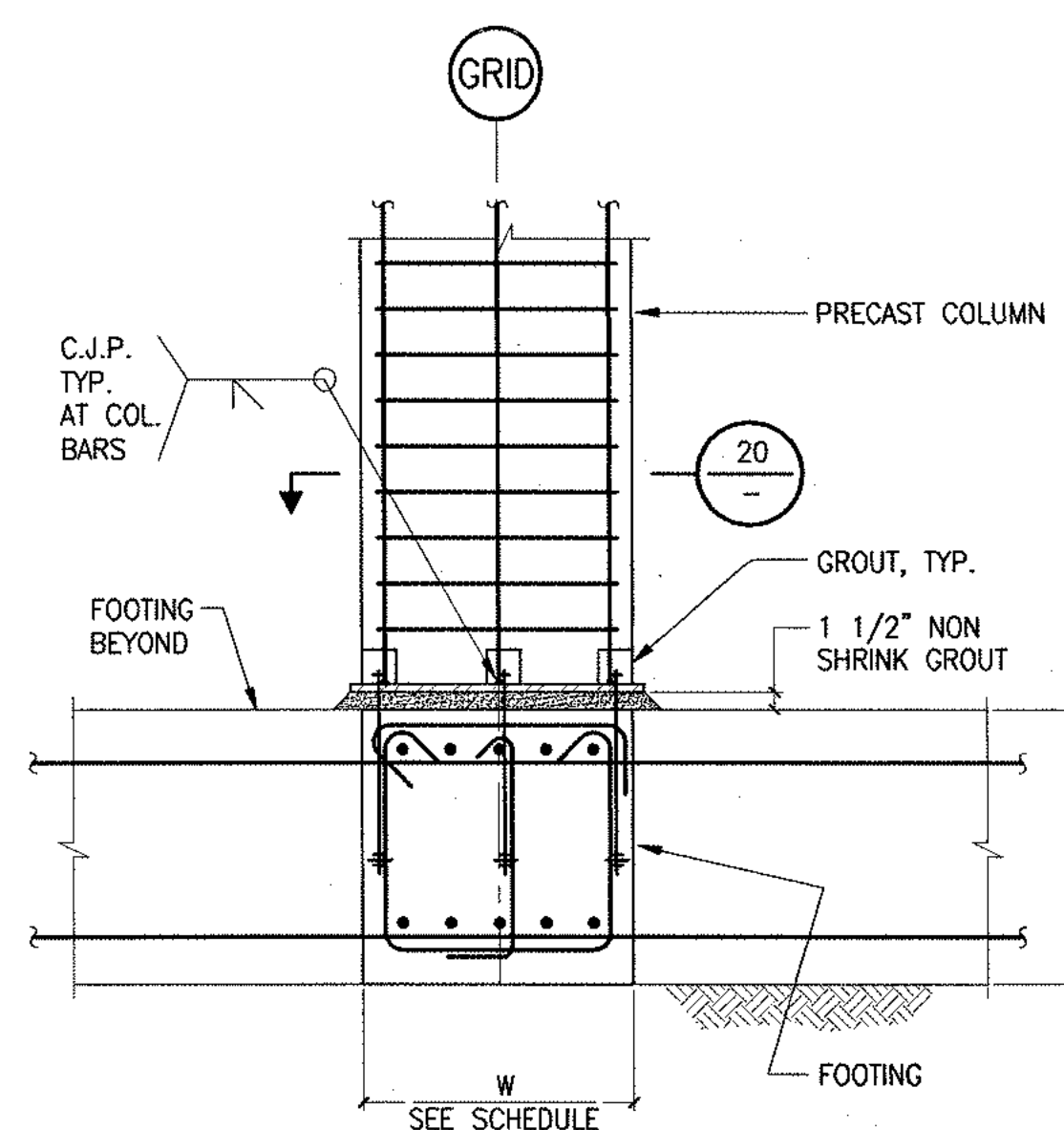


SECTION 6
3/4"=1'-0"
S5.03

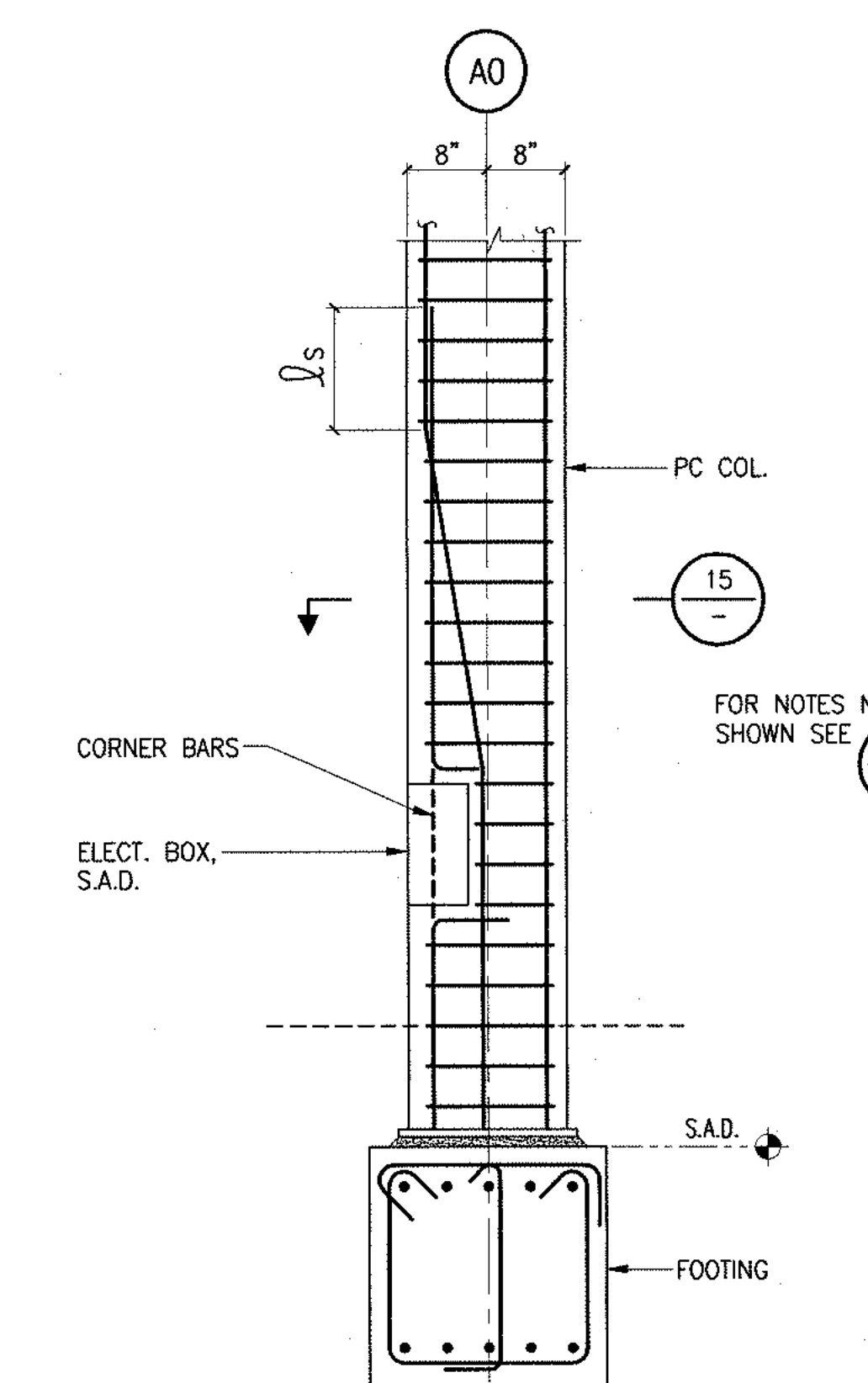


SECTION 2
3/4"=1'-0"
S5.03

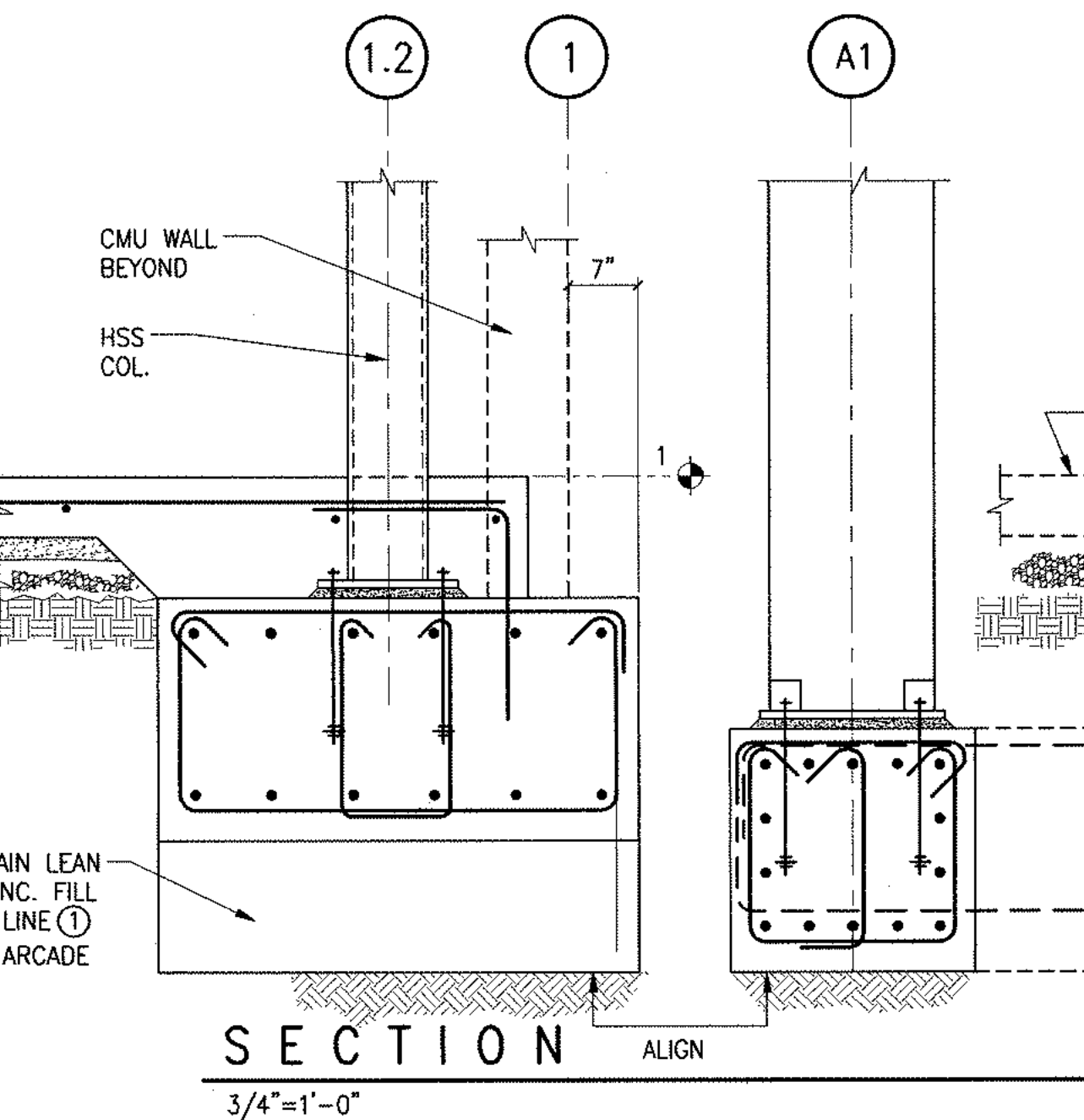
PRECAST COLUMN PLAN DETAILS 15
3/4"=1'-0"
S5.03



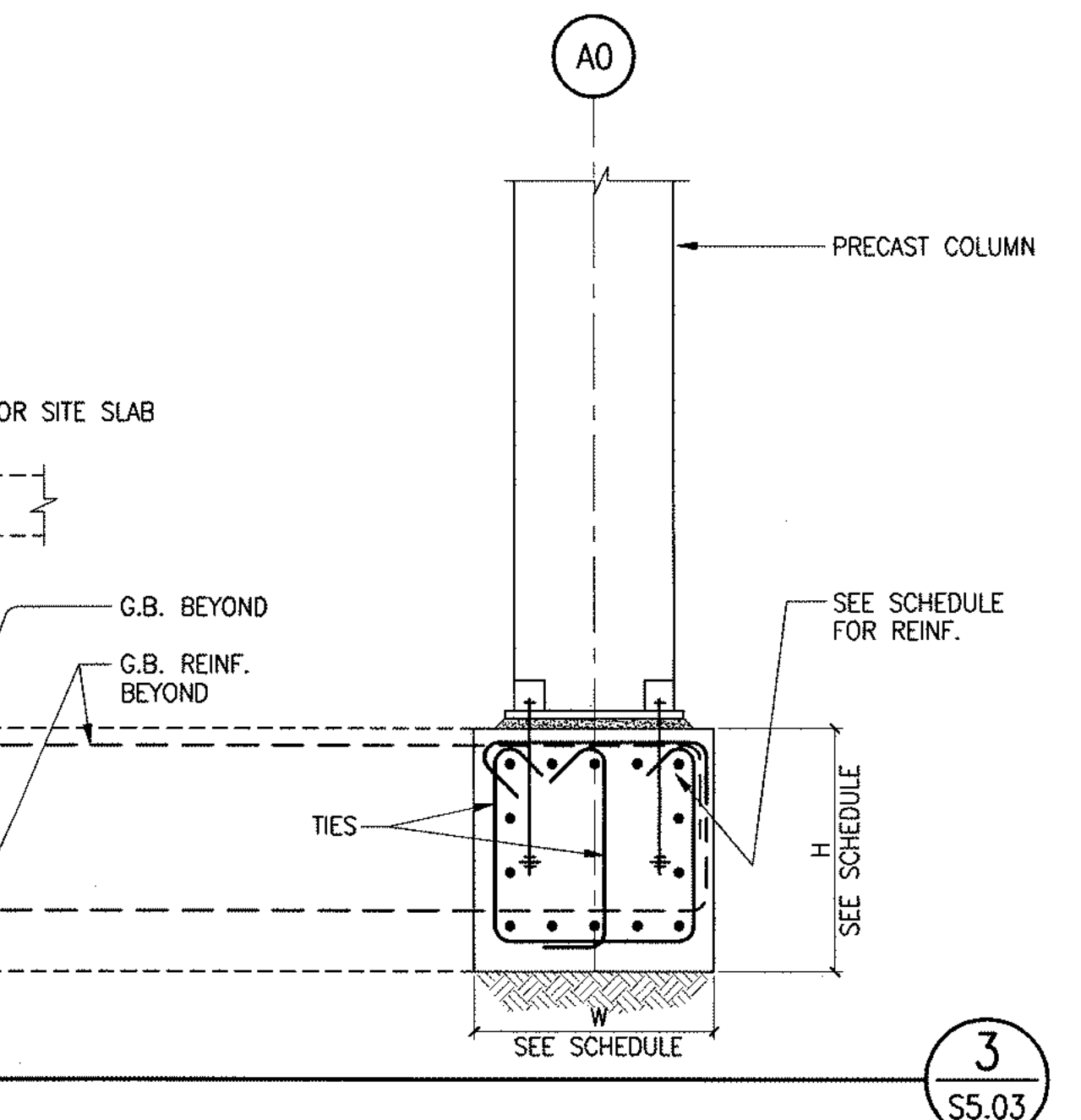
SECTION 16
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S5.03



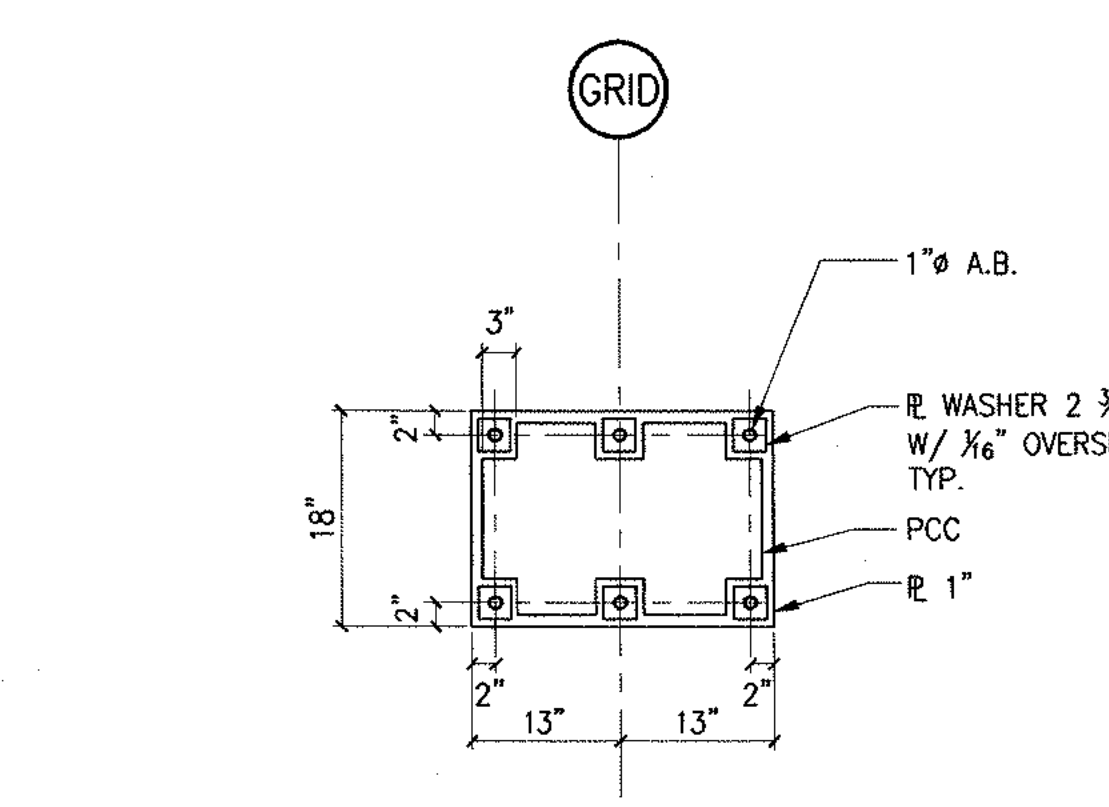
DETAIL AT PCC3 12
3/4"=1'-0"
S5.03



SECTION 3
3/4"=1'-0"
S5.03



SECTION 1
3/4"=1'-0"
S5.03



PLAN DETAIL 20
3/4"=1'-0"
S5.03

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10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
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Sacramento, CA 95815
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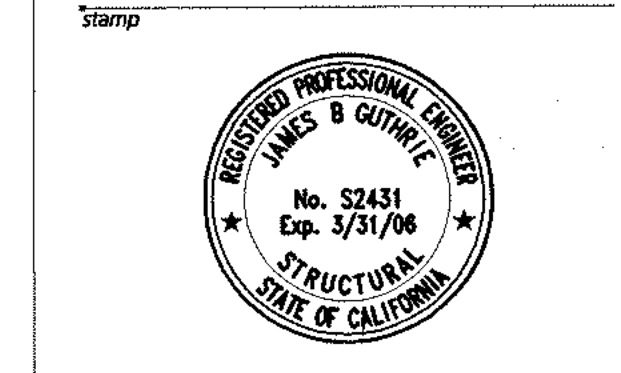
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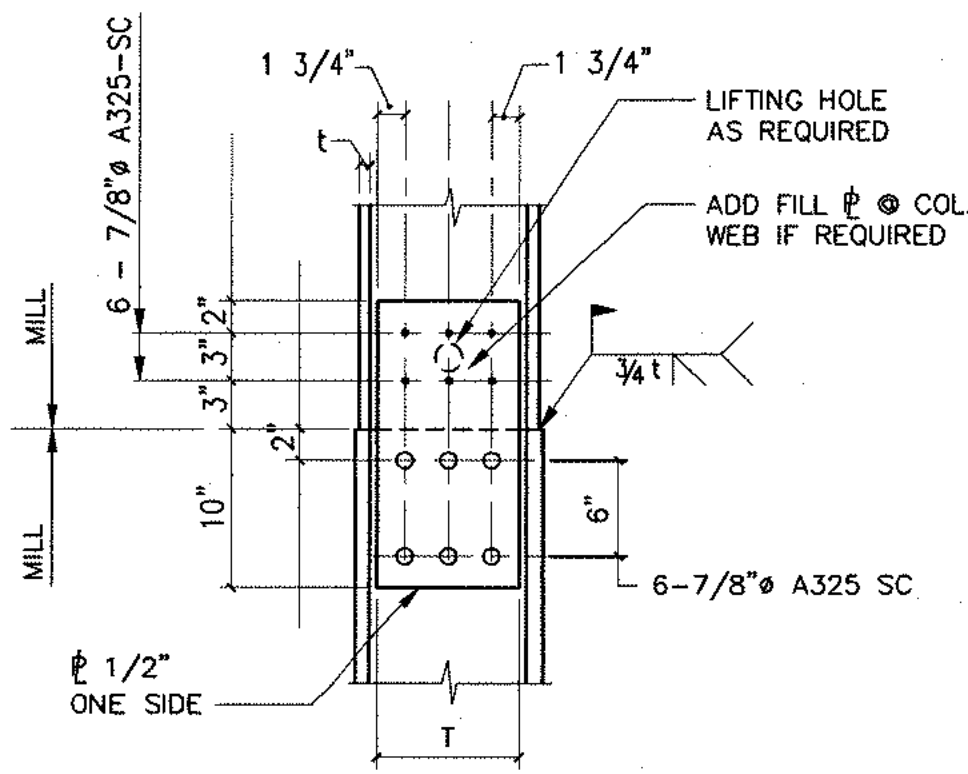
11-29-04 Updated
Contract Documents



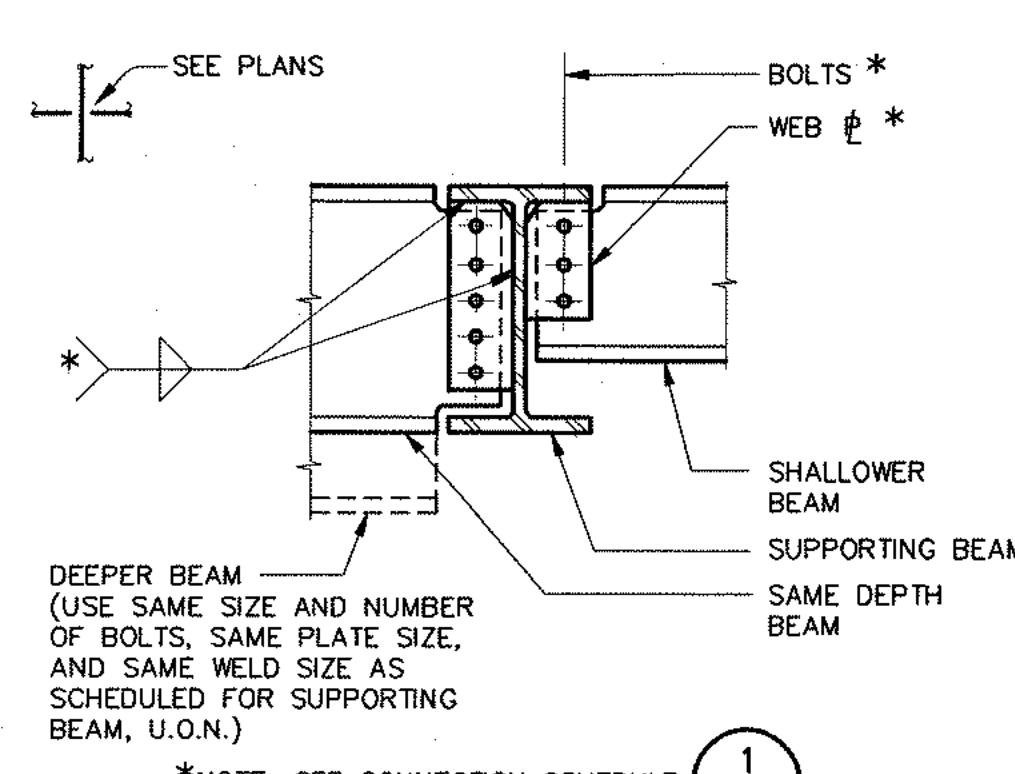
CA UPDATE SET

COMMUNITY
HALL -
DETAILS

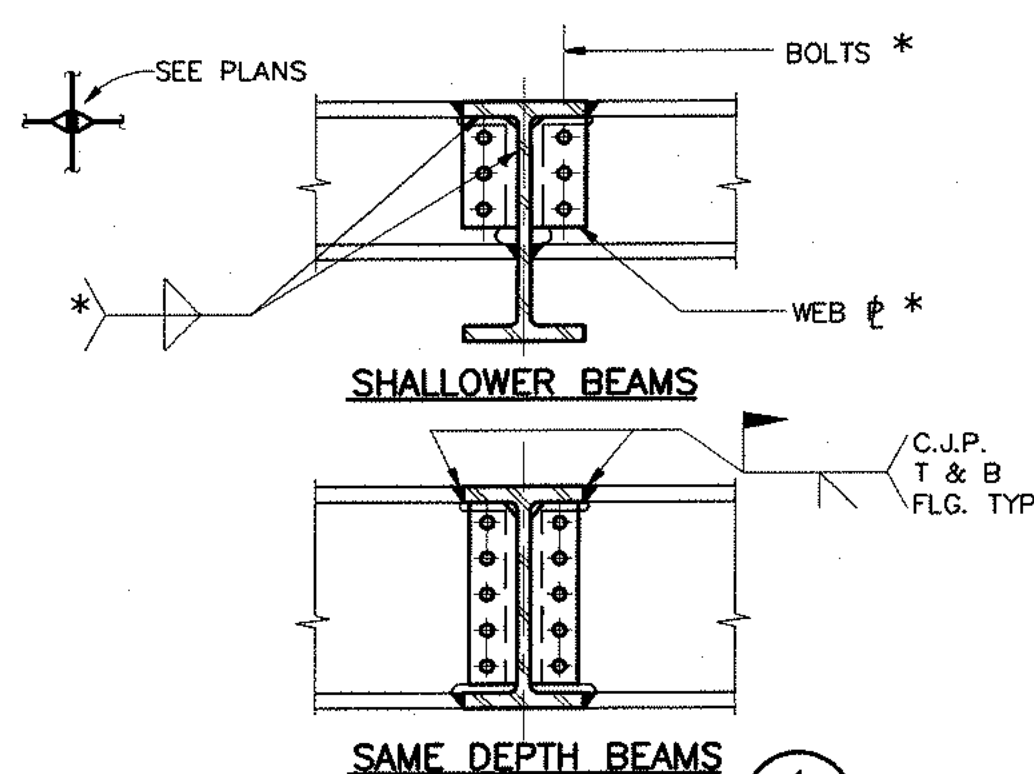
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Drawn by KRL/opez project number 10330
Sheet number 10330
S5.03



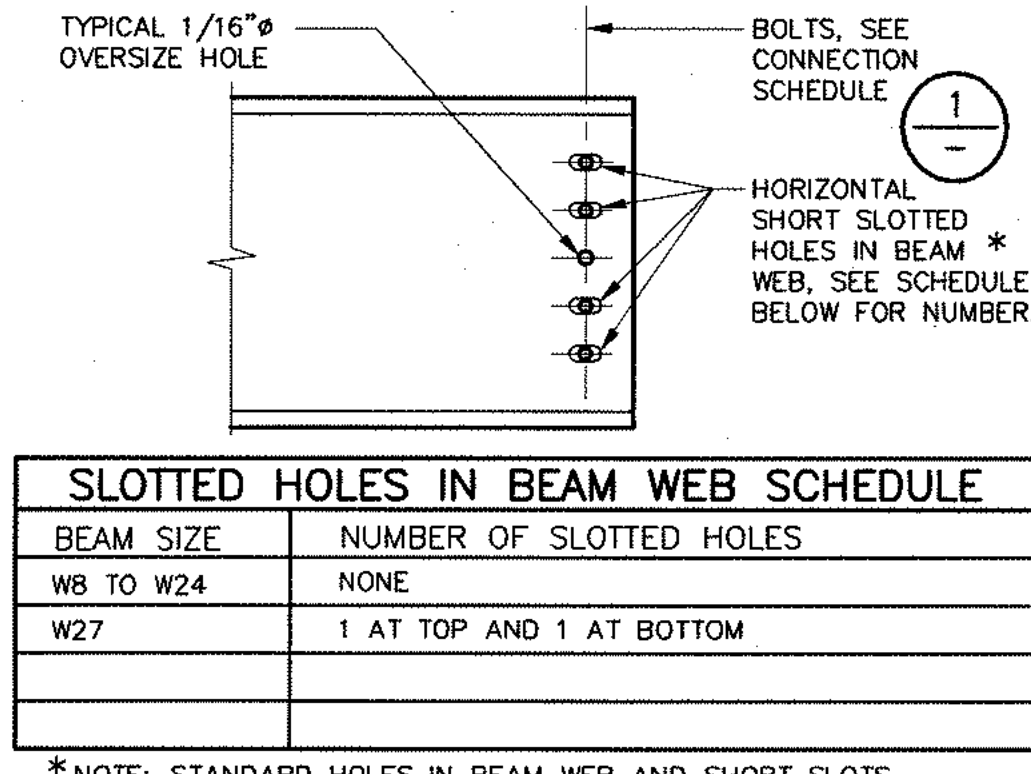
**TYPICAL WF COLUMN SPLICE
DETAIL - NON-BRACED FRAMES** (26)
NO SCALE



**TYPICAL BEAM TO BEAM
SIMPLE CONNECTION** (21)
NO SCALE



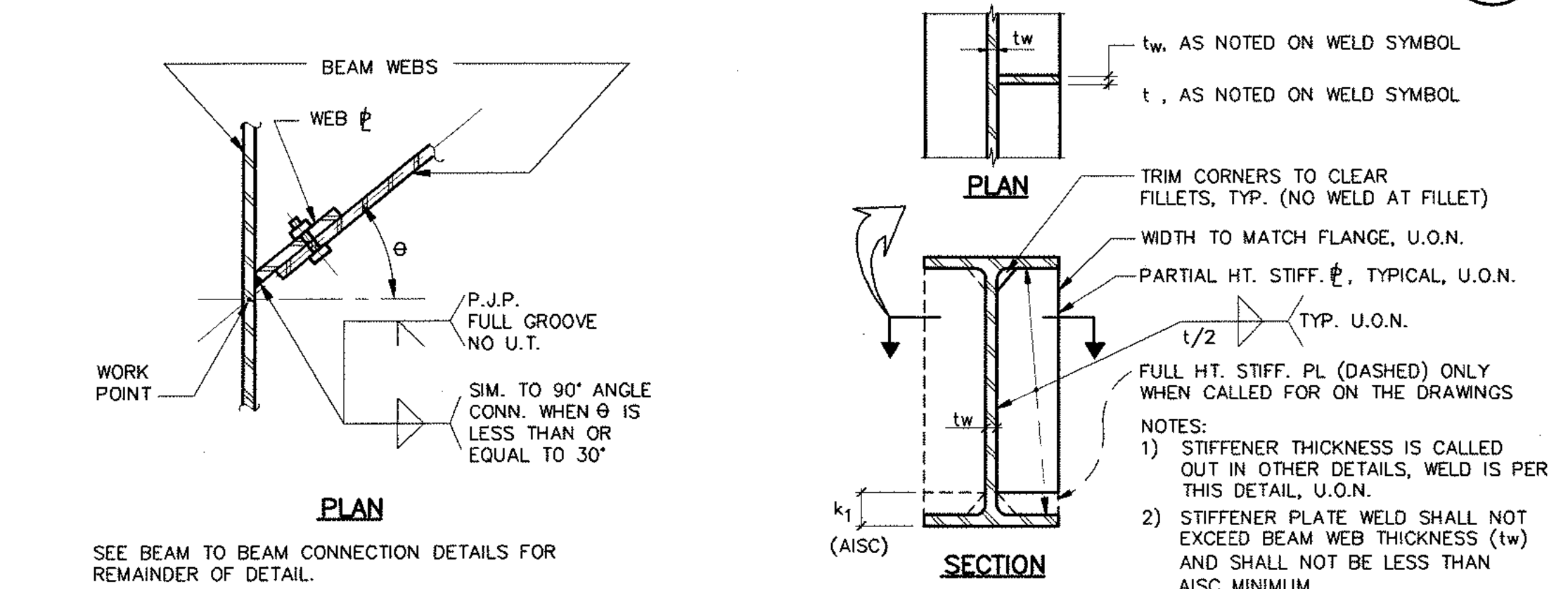
**TYPICAL BEAM TO BEAM
MOMENT CONNECTION** (16)
NO SCALE



**TYP. SLOTTED HOLES IN SIMPLE
BEAM TO COLUMN CONNECTIONS** (11)
NO SCALE

BEAM SIZE	NO. OF BOLTS (PER ROW)	MIN. TOP OF BM. TO 1st. BOLT	SINGLE ROW OF BOLTS			ALLOWABLE VERTICAL LOAD	DOUBLE ROW OF BOLTS			ALLOWABLE VERTICAL LOAD
			BOLT DIAM.	WEB # THICKNESS	WEB WELD		BOLT DIAM.	WEB # THICKNESS	WEB # WELD	
W8	2	2 1/2"	7/8"	3/8"	1/4"	11k	7/8"	1/2"	5/16"	18k
W10	2	2 1/2"	7/8"	3/8"	1/4"	11k	7/8"	1/2"	5/16"	18k
W12, W14	3	3"	7/8"	3/8"	5/16"	22k	7/8"	1/2"	5/16"	32k
W16, W18	4	3"	7/8"	3/8"	5/16"	35k	7/8"	1/2"	3/8"	53k
W21	5	4 1/2"	7/8"	1/2"	5/16"	49k	7/8"	1/2"	3/8"	76k
W24	6	4 1/2"	7/8"	1/2"	5/16"	63k	7/8"	1/2"	3/8"	101k
W27	7	4 1/2"	7/8"	1/2"	5/16"	76k	1"	3/4"	1/2"	157k

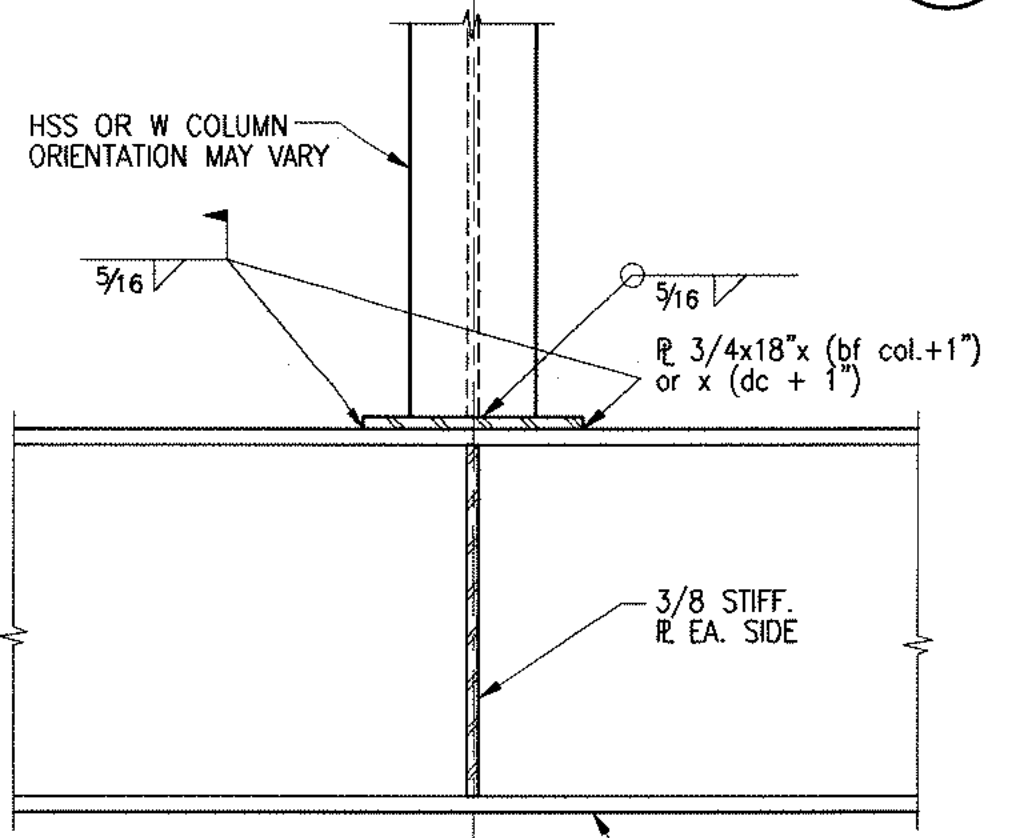
BEAM WEB CONNECTION SCHEDULE (1)
NO SCALE



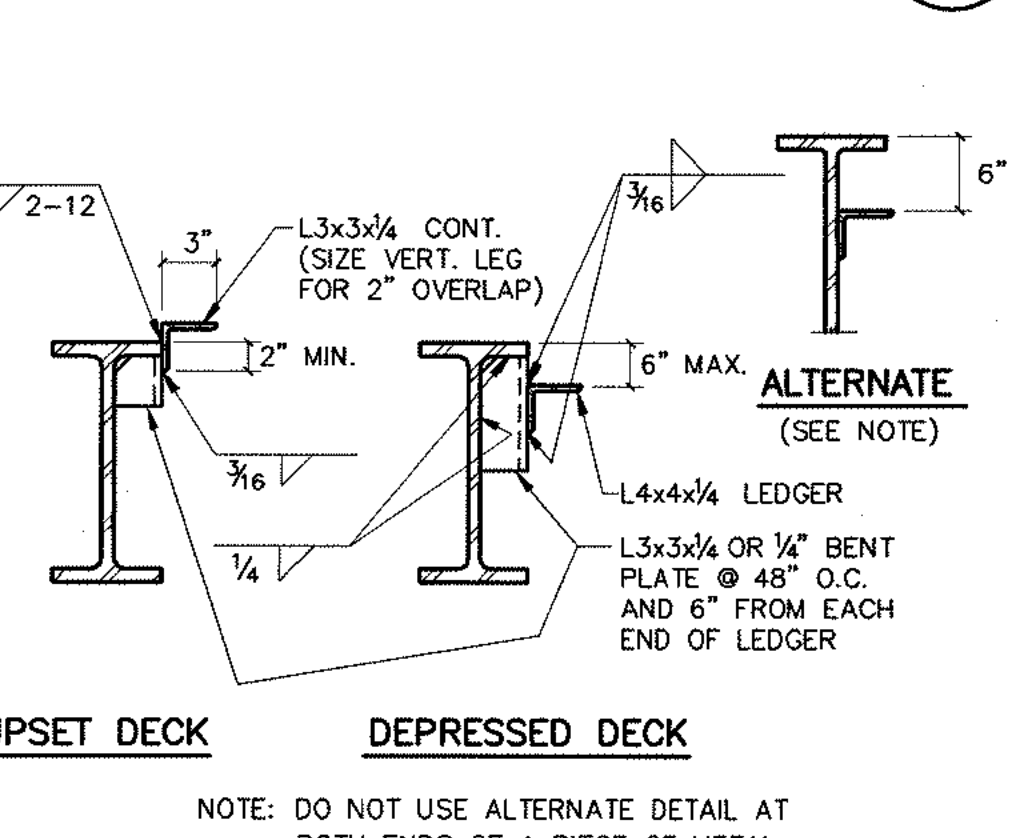
**TYPICAL SKEWED BEAM
WEB CONN. PLATE DETAIL** (7)
NO SCALE



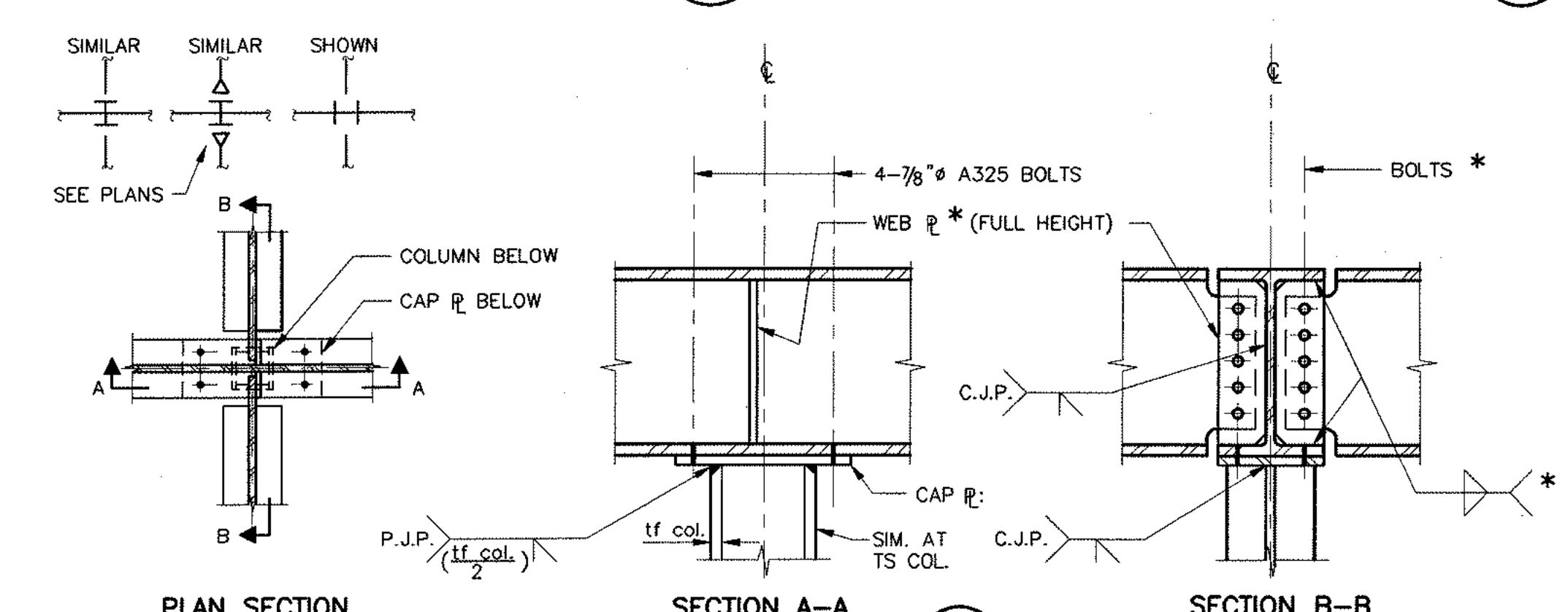
**TYPICAL BEAM WEB
STIFFENER PLATE DETAIL** (2)
NO SCALE



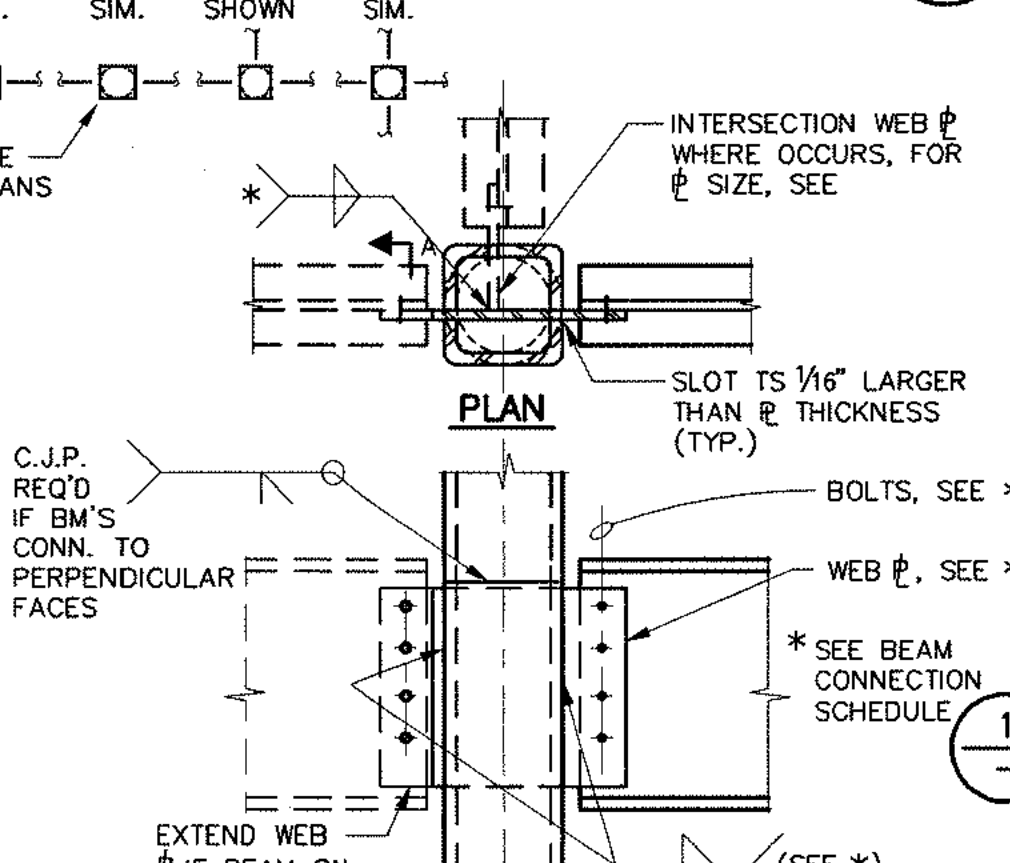
TYP. TRANSFER BEAM DETAIL (27)
NO SCALE



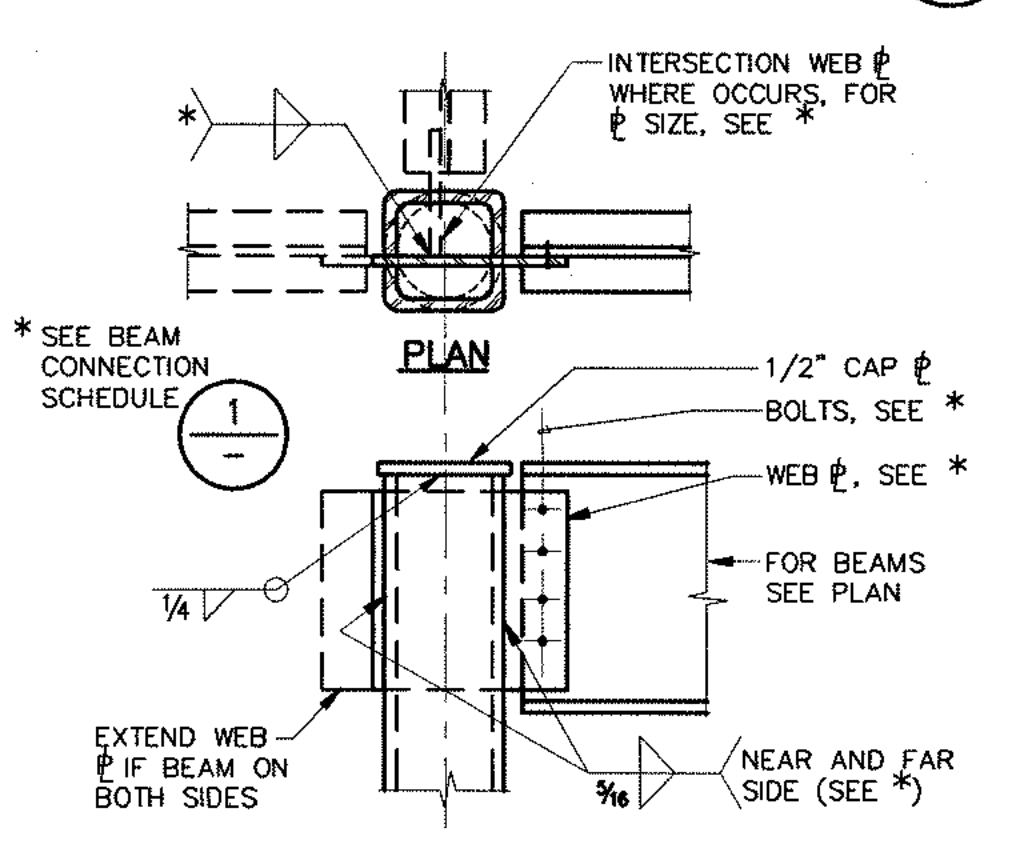
TYPICAL LEDGER AT BEAM (22)
NO SCALE



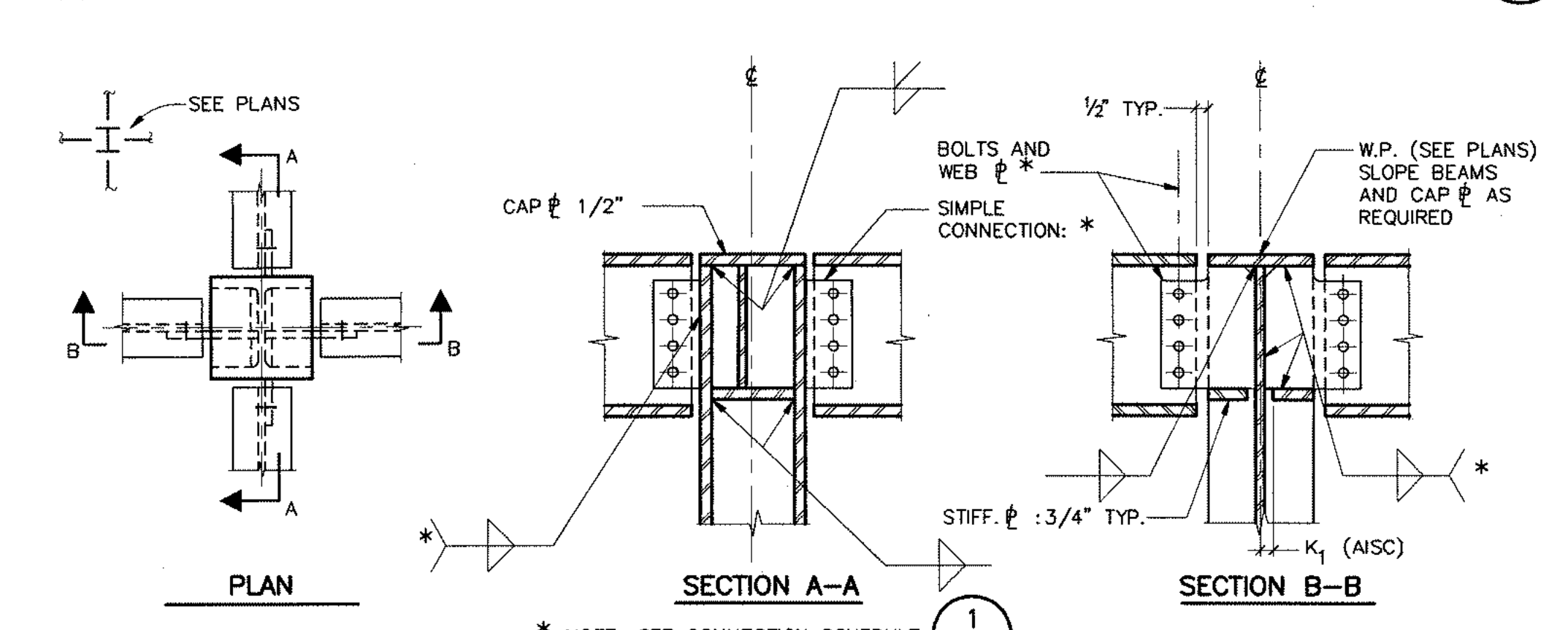
**TYPICAL BEAM TO COLUMN CONNECTION
BEAM CONTINUOUS OVER COLUMN** (12)
NO SCALE



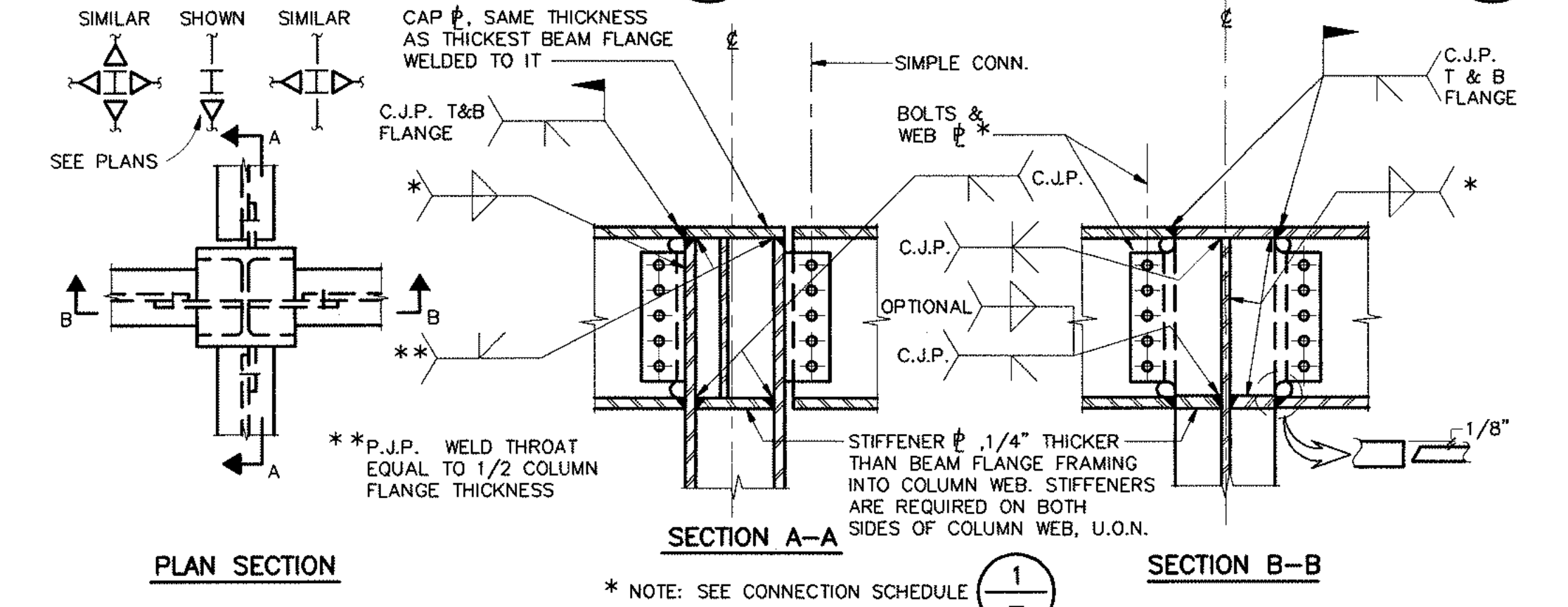
**TYP. SIMPLE BEAM TO HSS COL.
CONN.-FLOOR, SIM AT PIPE COL.** (28)
NO SCALE



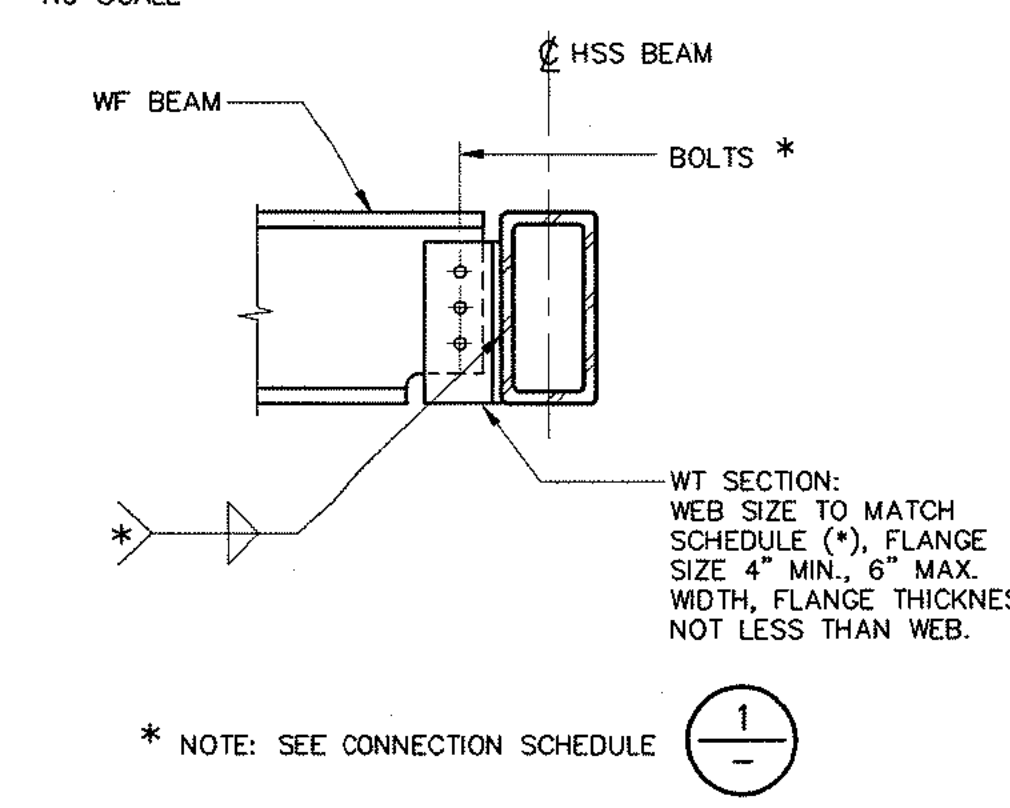
**TYP. SIMPLE BEAM TO HSS COL.
CONNECTION, SIM. AT PIPE COL.** (23)
NO SCALE



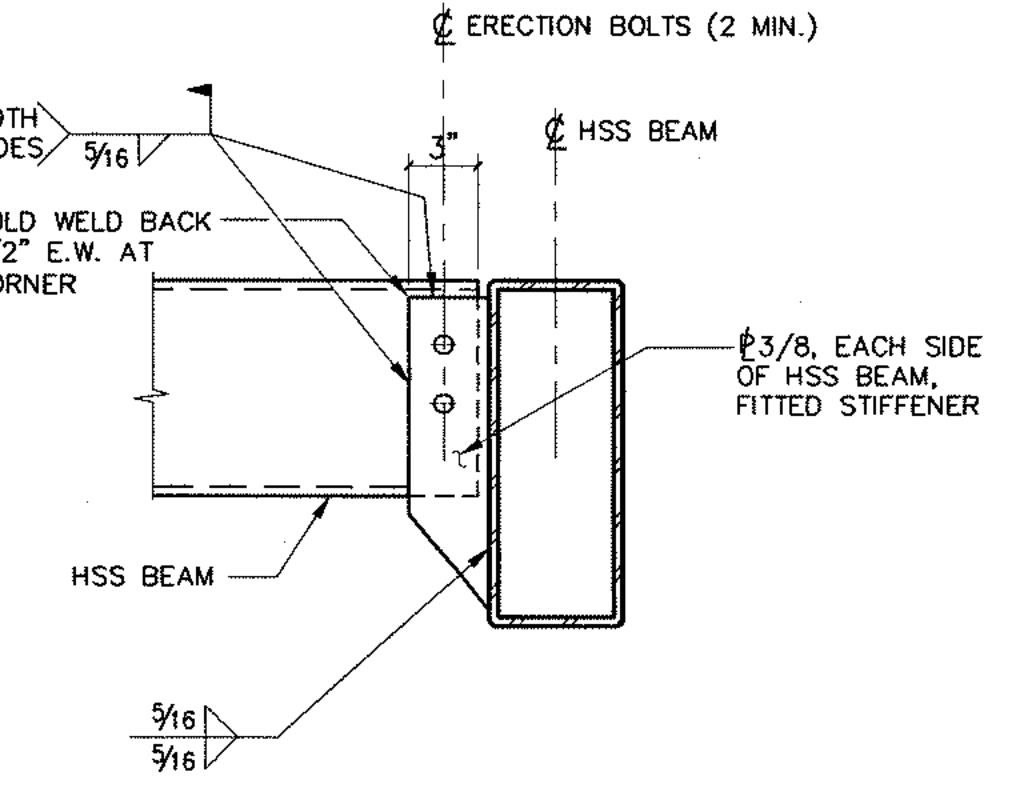
TYPICAL BEAM TO COLUMN ALL SIMPLE CONNECTIONS AT ROOF (13)
NO SCALE



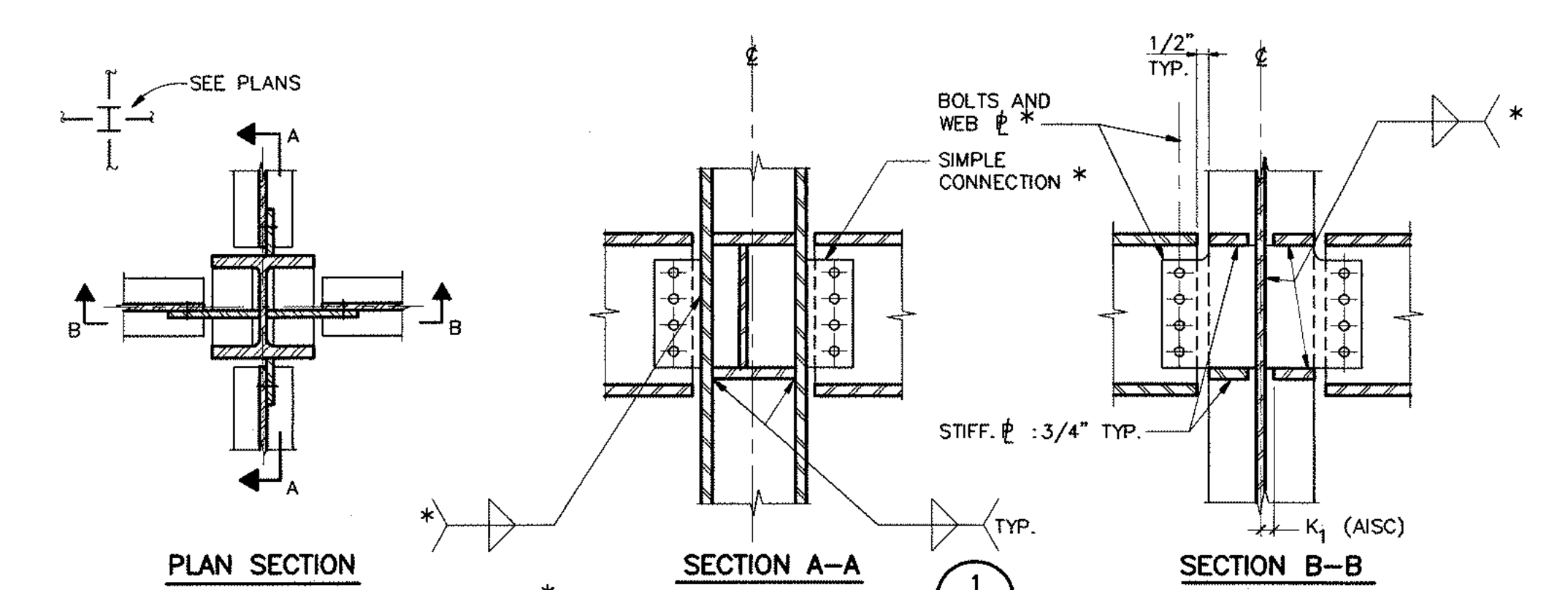
**TYPICAL BEAM TO COLUMN CONNECTION AT ROOF-MOMENT CONNECTIONS
TO COL. WEB, SIMPLE OR MOMENT CONNECTIONS TO COL. FLANGE** (3)
NO SCALE



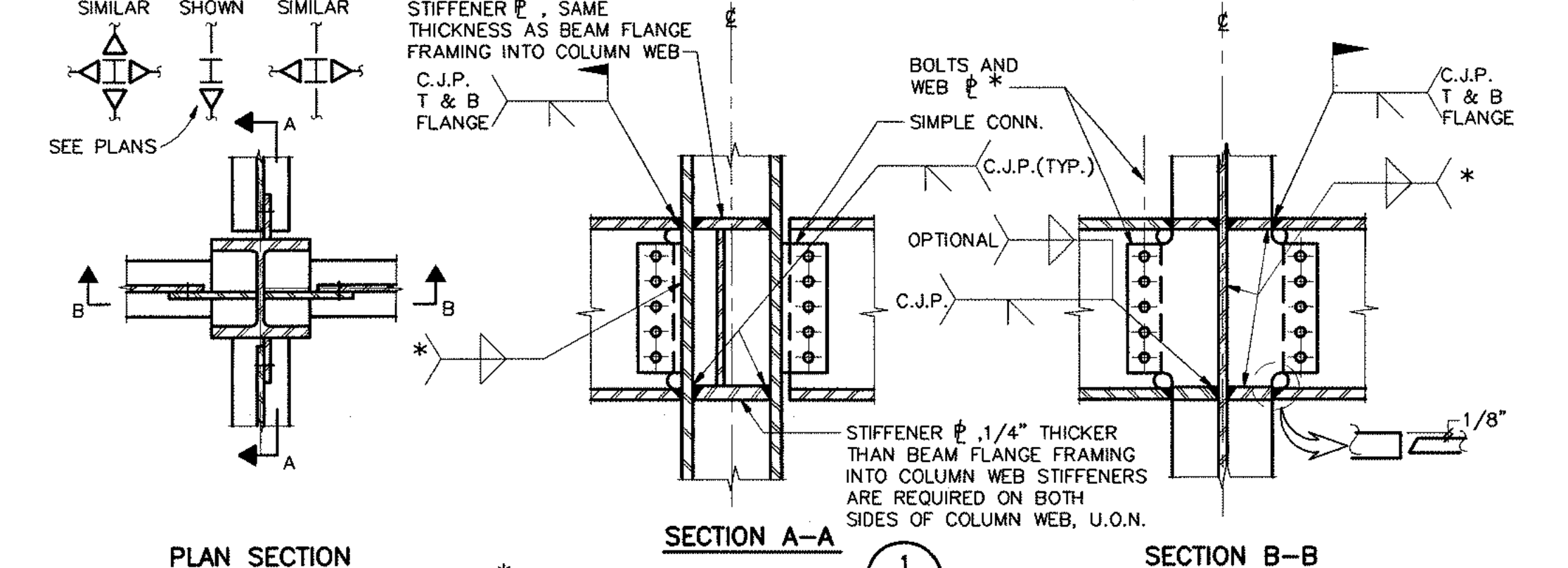
**TYPICAL WF BEAM TO HSS BEAM
SIMPLE CONNECTION** (29)
NO SCALE



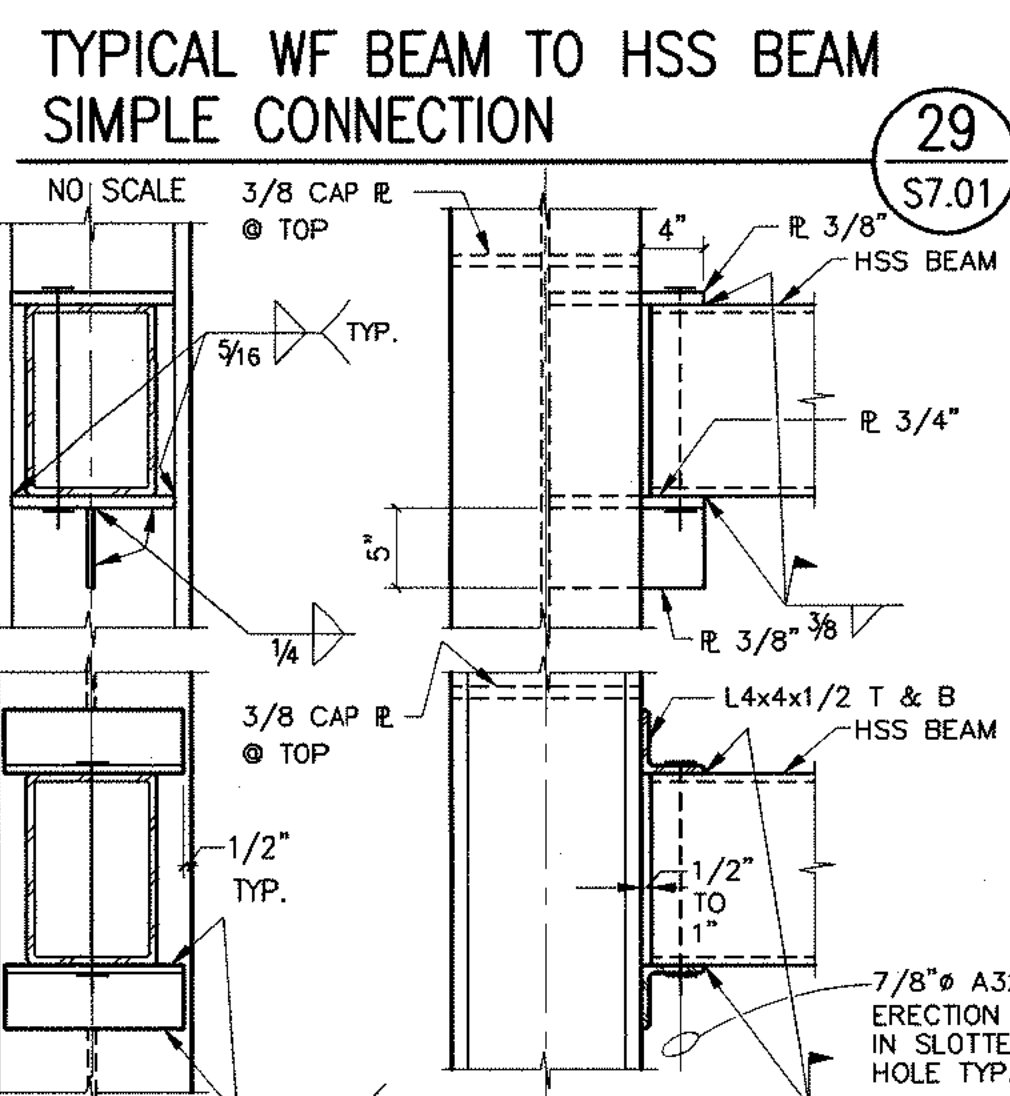
**TYPICAL HSS BEAM TO HSS BEAM
SIMPLE CONNECTION** (24)
NO SCALE



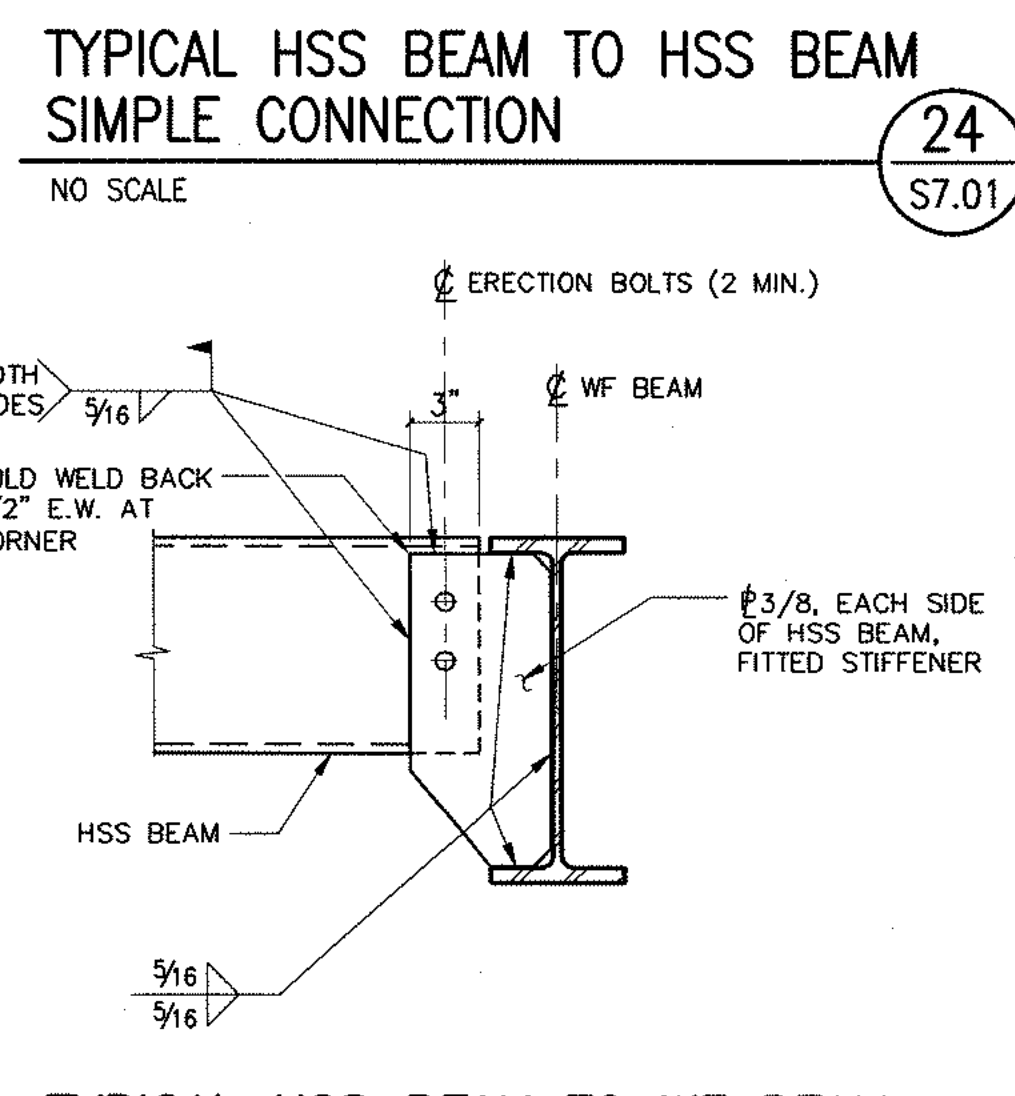
TYPICAL BEAM TO COLUMN ALL SIMPLE CONNECTIONS AT FLOOR (14)
NO SCALE



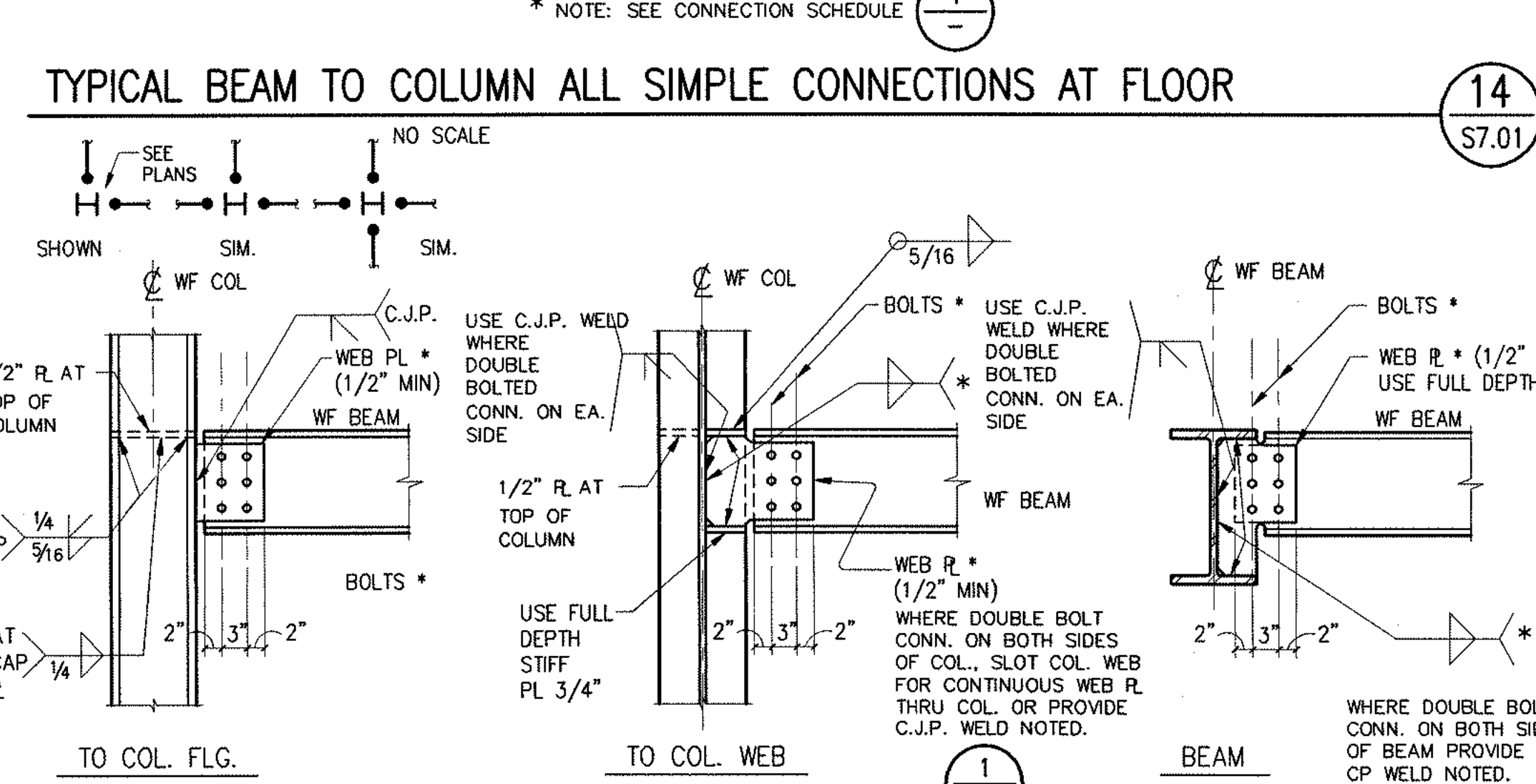
**TYPICAL BEAM TO COLUMN CONNECTION AT FLOOR-MOMENT CONNECTIONS
TO COL. WEB, SIMPLE OR MOMENT CONNECTIONS TO COL. FLANGE** (4)
NO SCALE



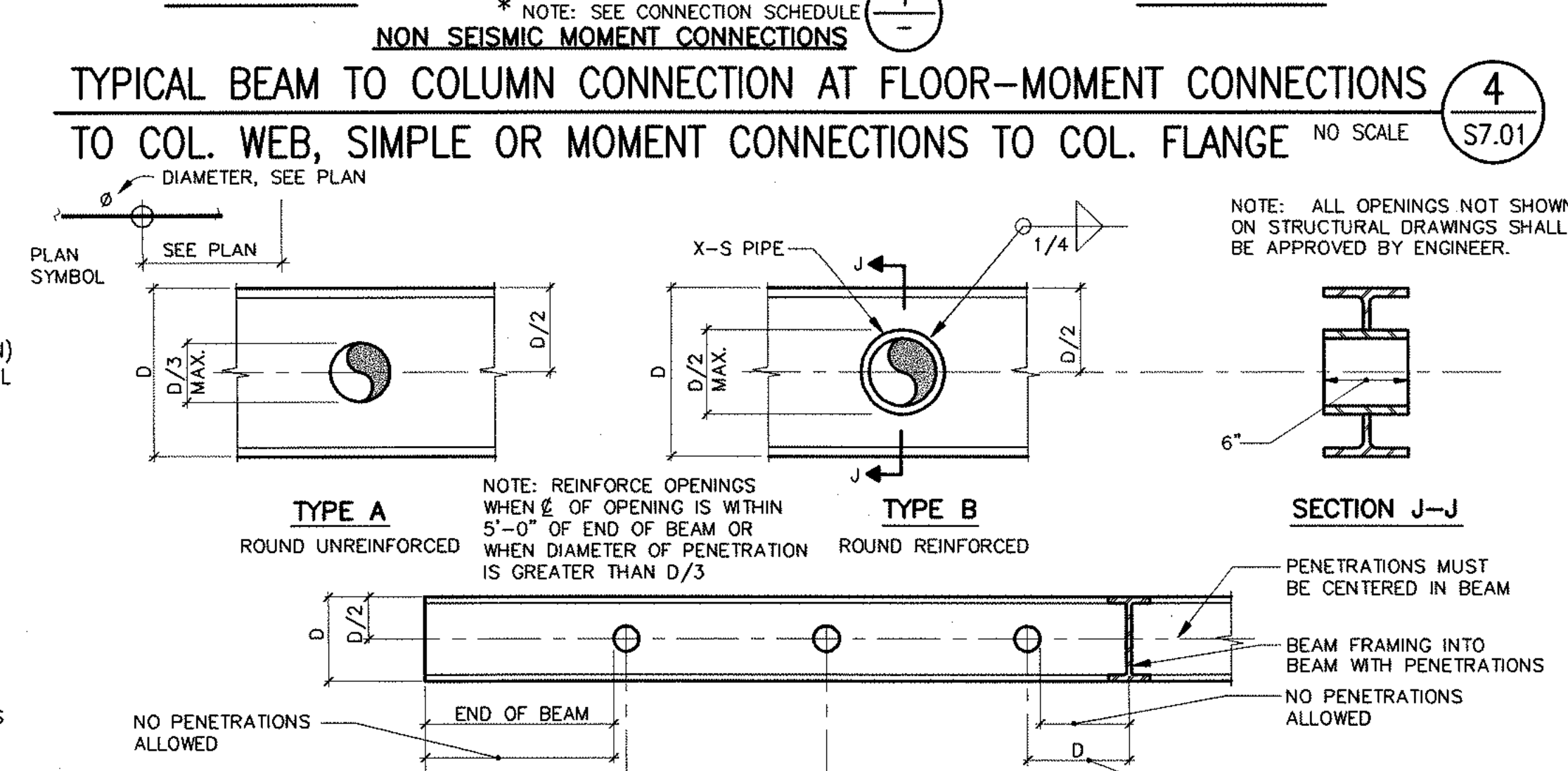
HSS BEAM TO WF COLUMN CONN. (30)
NO SCALE



**TYPICAL HSS BEAM TO WF BEAM
SIMPLE CONNECTION** (25)
NO SCALE



TYPICAL DOUBLE BOLTED CONNECTION AT FLOOR OR ROOF (15)
NO SCALE



**BEAM WEB PENETRATION LOCATION CRITERIA
AND DETAILS FOR ROUND PENETRATIONS** (5)
NO SCALE

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12000 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
1600 Sacramento Inn Way
Suite 2
Sacramento, CA 95815
916 929 9230 T
916 929 9541 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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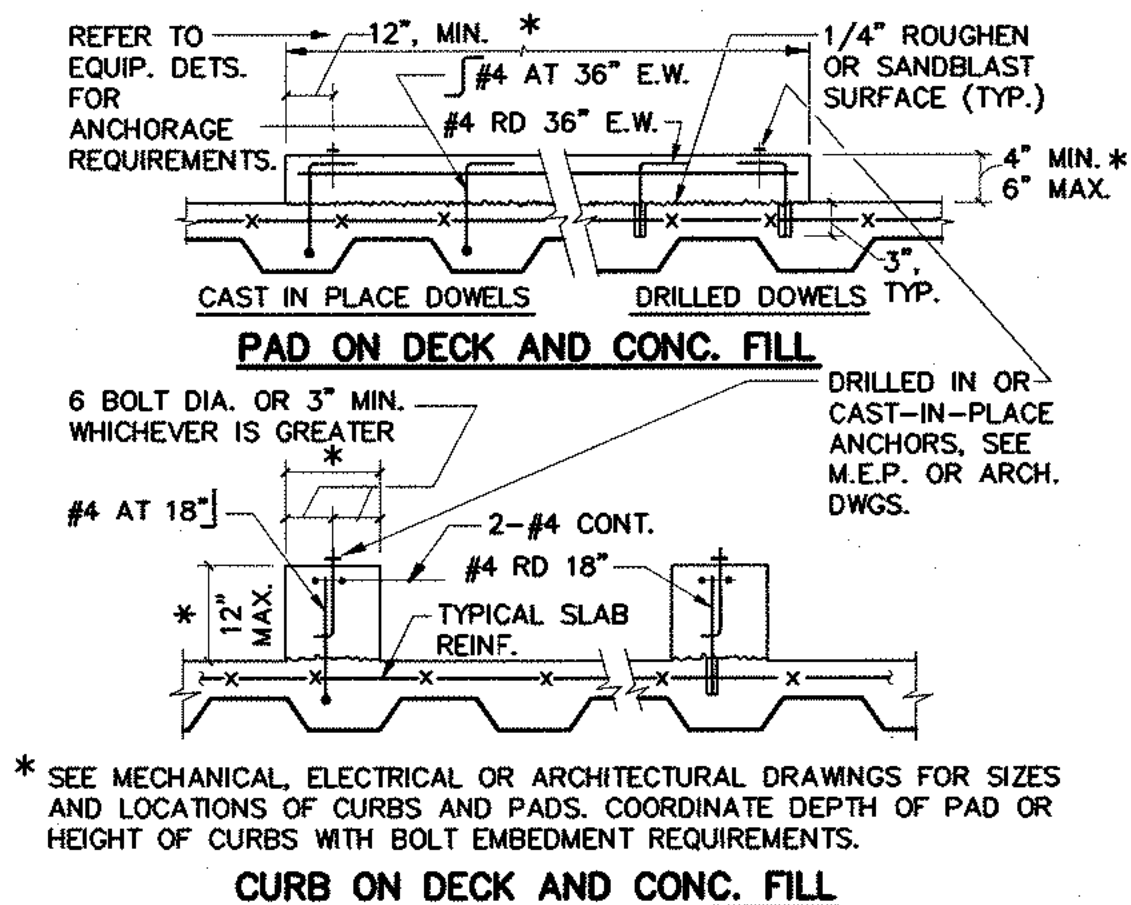
11-29-04 Updated Contract Documents

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TYPICAL STEEL DETAILS

scale NO SCALE date 2003.04.18
drawn by KRL/opez project number 1033
sheet number

S7.01



TYP. CONC. EQUIP. SUPPORTS 11
SCALE: NONE \$7.02

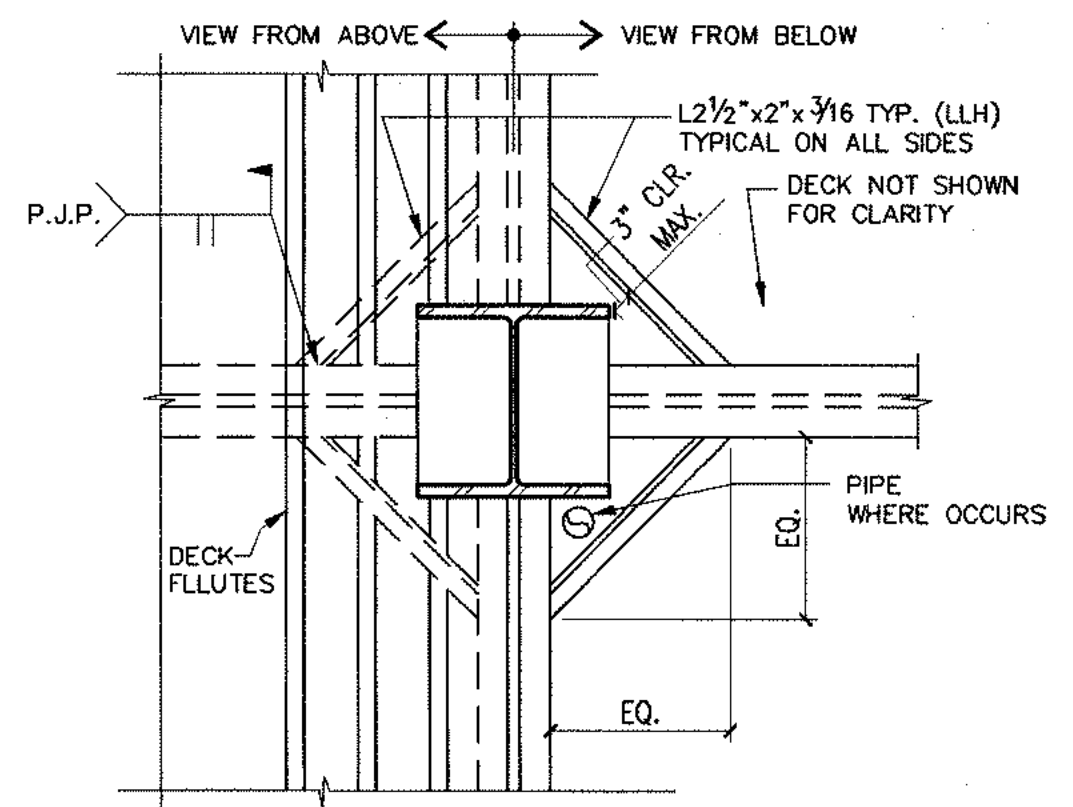
- STEEL DECK NOTES
- SEE ROOF AND FLOOR FRAMING PLANS FOR EXTENT OF DECK TYPES. NOT ALL DECK TYPES ARE SHOWN.
 - DECK SIDE LAPS SHALL BE GRIPPED TOGETHER AT WELD POINTS BEFORE MAKING TOP SEAM WELDS.
 - SEE TYPICAL DETAILS ON SHEET FOR REINFORCEMENT REQUIRED FOR OPENINGS IN THE DECK. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MAJOR OPENING SIZES AND LOCATIONS. OTHER OPENINGS ARE NOT SHOWN AND ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.
 - SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR EDGE OF DECK DIMENSIONS.
 - ALL BEAMS COVERED BY STEEL DECK ARE TO HAVE DECK WELDED TO IT.
 - STEEL DECK AND STEEL MEMBER SURFACES COVERED BY STEEL DECK SHALL NOT BE PAINTED AND SHALL BE FREE OF MOISTURE, RUST, SCALE, DIRT, SAND AND OTHER MATERIALS THAT WILL INTERFERE WITH THE WELDING OPERATIONS. SEE SPECS.
 - STEEL DECK CONTRACTOR SHALL PROVIDE AND INSTALL CLOSURE ANGLES, AND OTHER GAGE METAL SHAPES TO CLOSE ALL MISS. OPENINGS IN DECK AS NEEDED AROUND COLUMNS, VERTICAL DISCONTINUITIES, ETC.
 - ALL PUDDLE WELDS ARE 3/4" OR EQUAL, REFER TO MANUFACTURER'S RECOMMENDATION.
 - STEEL DECK W/O CONCRETE MAY REQUIRE LIGHT GAGE EDGE ANGLES OR CLOSURE ANGLE, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT.
 - SHEAR STUDS MAY BE USED TO REPLACE PUDDLE WELD ON A ONE-TO-ONE BASIS.
 - LAYOUT OF DECK SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO SPAN AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED AS SHOWN. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
 - DO NOT PLACE CONDUITS OR PIPES IN CONCRETE FILL OVER METAL DECK.

STEEL DECK NOTES 1
\$7.02

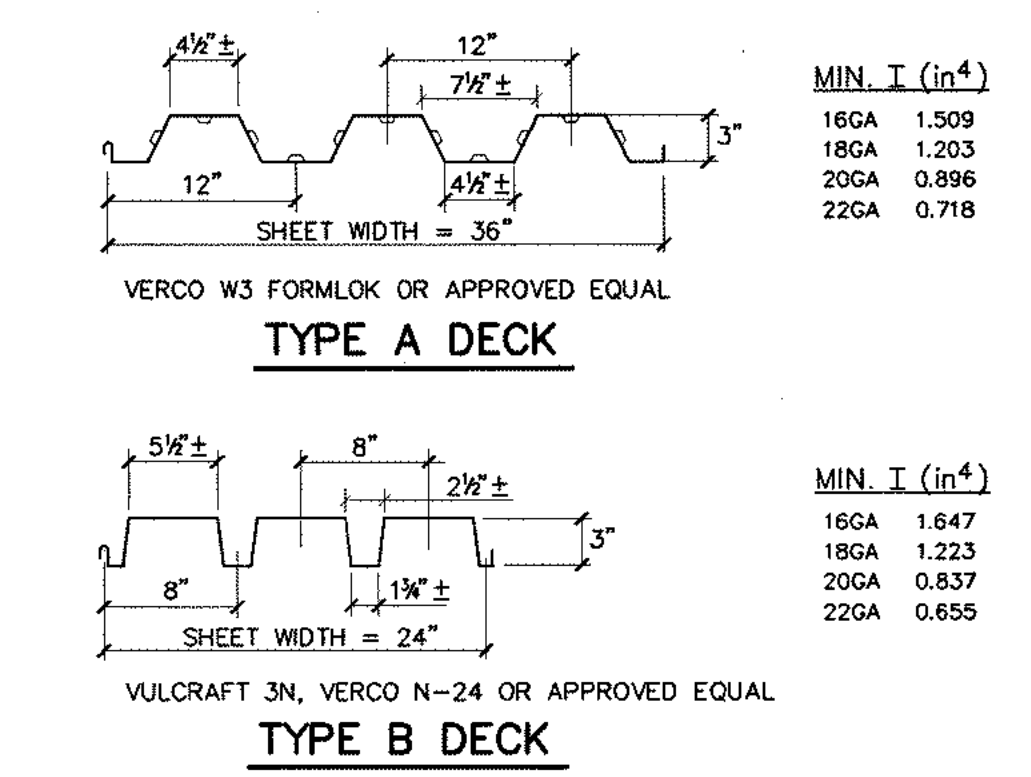
DECK AND FILL MARK (SEE PLAN)	DECK GAGE AND PROFILE TYPE (SEE PLAN)	DECK WELDS, SEE DETAIL(S)			FILL THICKNESS ABOVE DECK - FILL TYPE	FILL REINFORCEMENT	REMARKS		
		WELD (A)	WELD (B)	WELD (C)					
		SIZE AND TYPE	SIZE AND TYPE	SIZE AND TYPE					
1	A (18 GA.)	3/4" P.W. *	3/4" P.W. *	12" O.C.	1 1/2" TSW	12" O.C.	1 1/2" N.W. CONC.	#4@12" O.C. E.W.	
2	B (16 GA.)	3/4" P.W. *	3/4" P.W. *	12" O.C.	1 1/2" TSW	12" O.C.	-	-	
3	B (18 GA.)	3/4" P.W. *	3/4" P.W. *	12" O.C.	1 1/2" TSW	12" O.C.	-	-	ACOUSTICAL METAL DECKING SEE SPECS.
4	A (18 GA.)	3/4" P.W. *	3/4" P.W. *	12" O.C.	1 1/2" TSW	12" O.C.	3 1/2" N.W. CONC.	#4@12" O.C. E.W.	
5	B (18 GA.)	3/4" P.W. *	3/4" P.W. *	12" O.C.	1 1/2" TSW	12" O.C.	-	-	

P.W. = PUDDLE WELD, TSW = TOP SEAM WELD * WELD (A) AT EACH LOW FLUTE

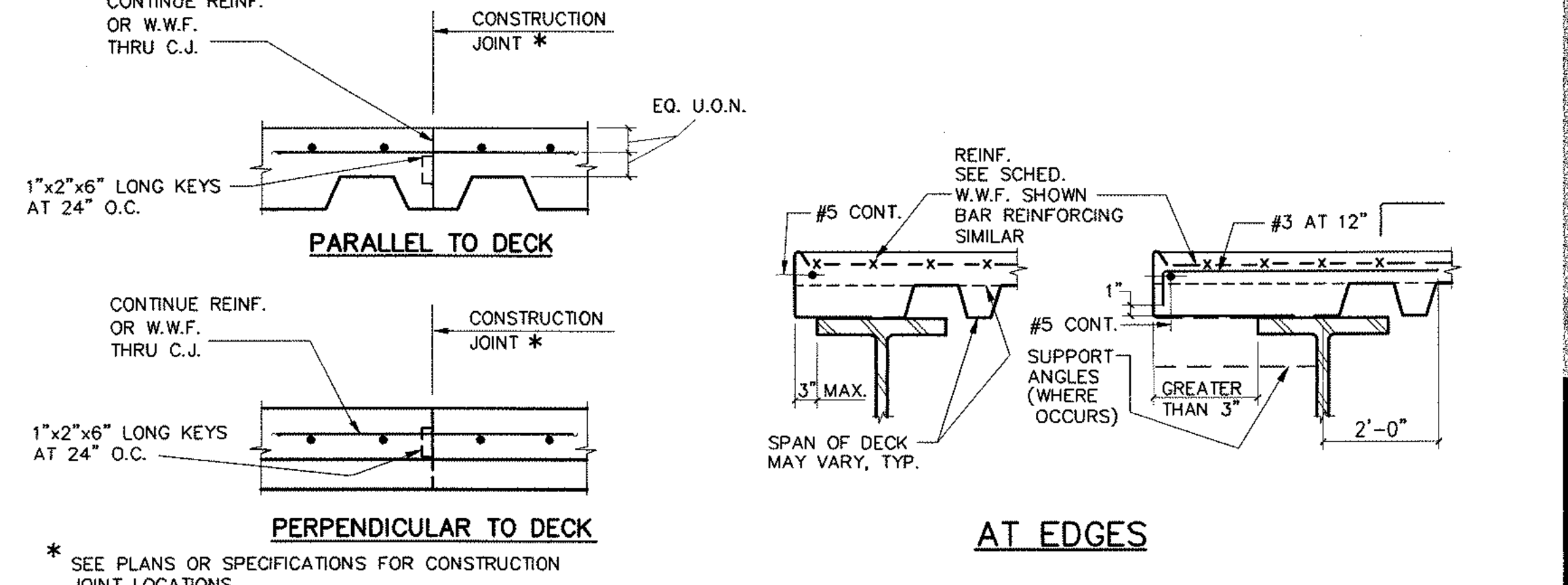
STEEL DECK AND FILL SCHEDULE 2
\$7.02



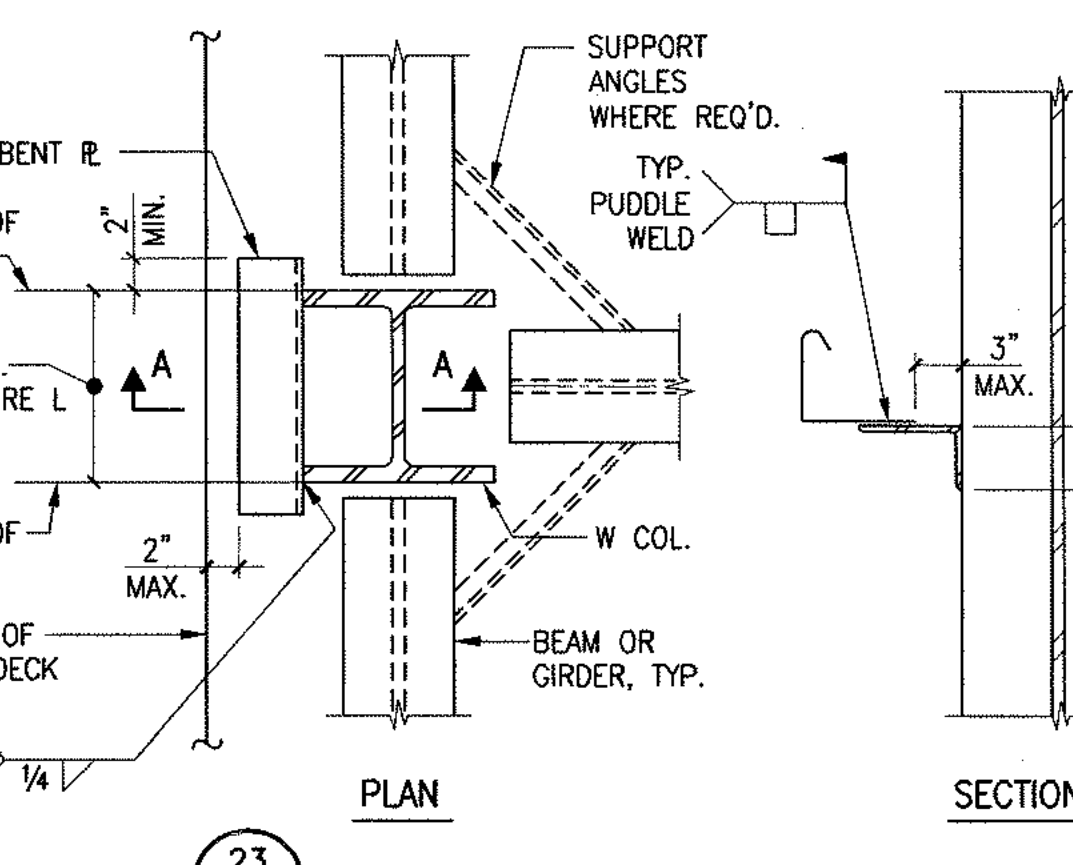
TYPICAL DECK SUPPORT DETAIL AT INTERIOR WF COLUMNS 23
NO SCALE \$7.02



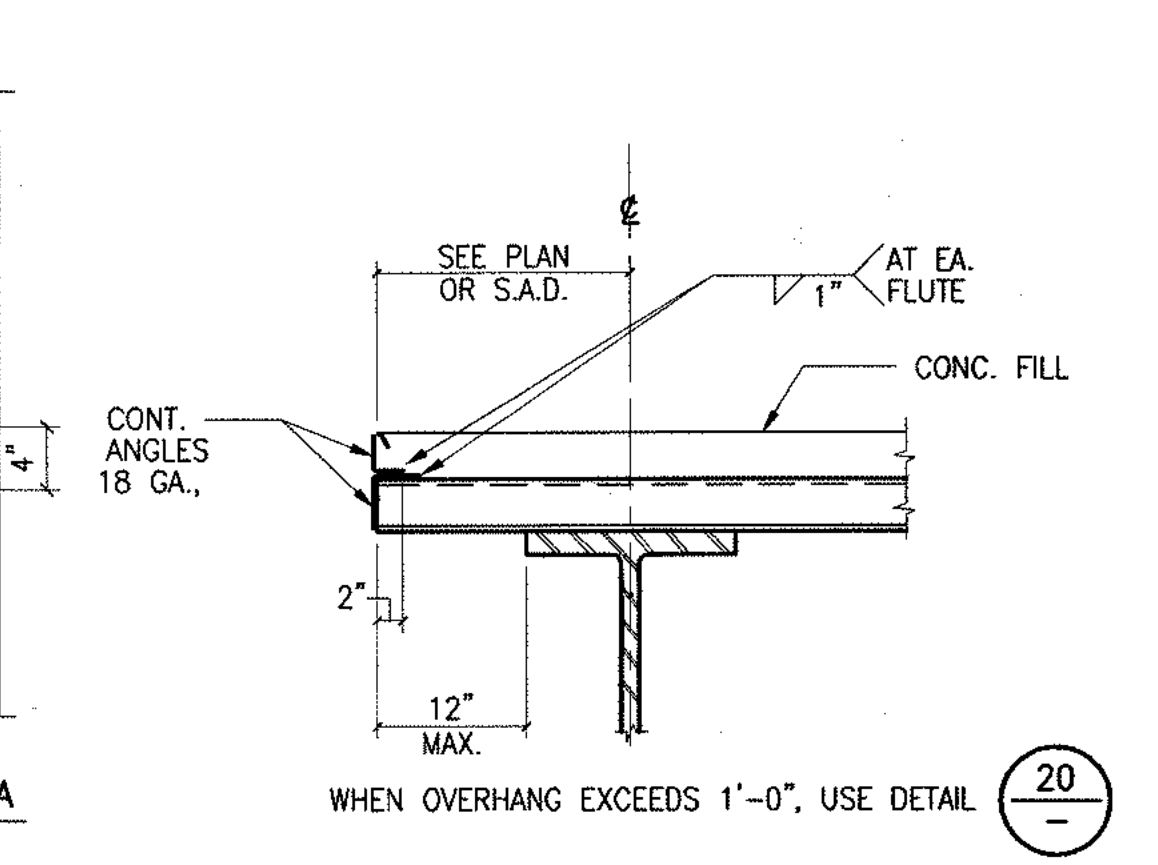
METAL DECK PROFILES AND MINIMUM PROPERTIES 13
\$7.02



STEEL DECK AND FILL SCHEDULE 2
\$7.02



TYPICAL DECK SUPPORT AT EXTERIOR COLUMN 24
NO SCALE \$7.02



TYPICAL EDGE OF DECK DETAIL 20
\$7.02

EDGE ANGLE THICKNESS (GAGE)

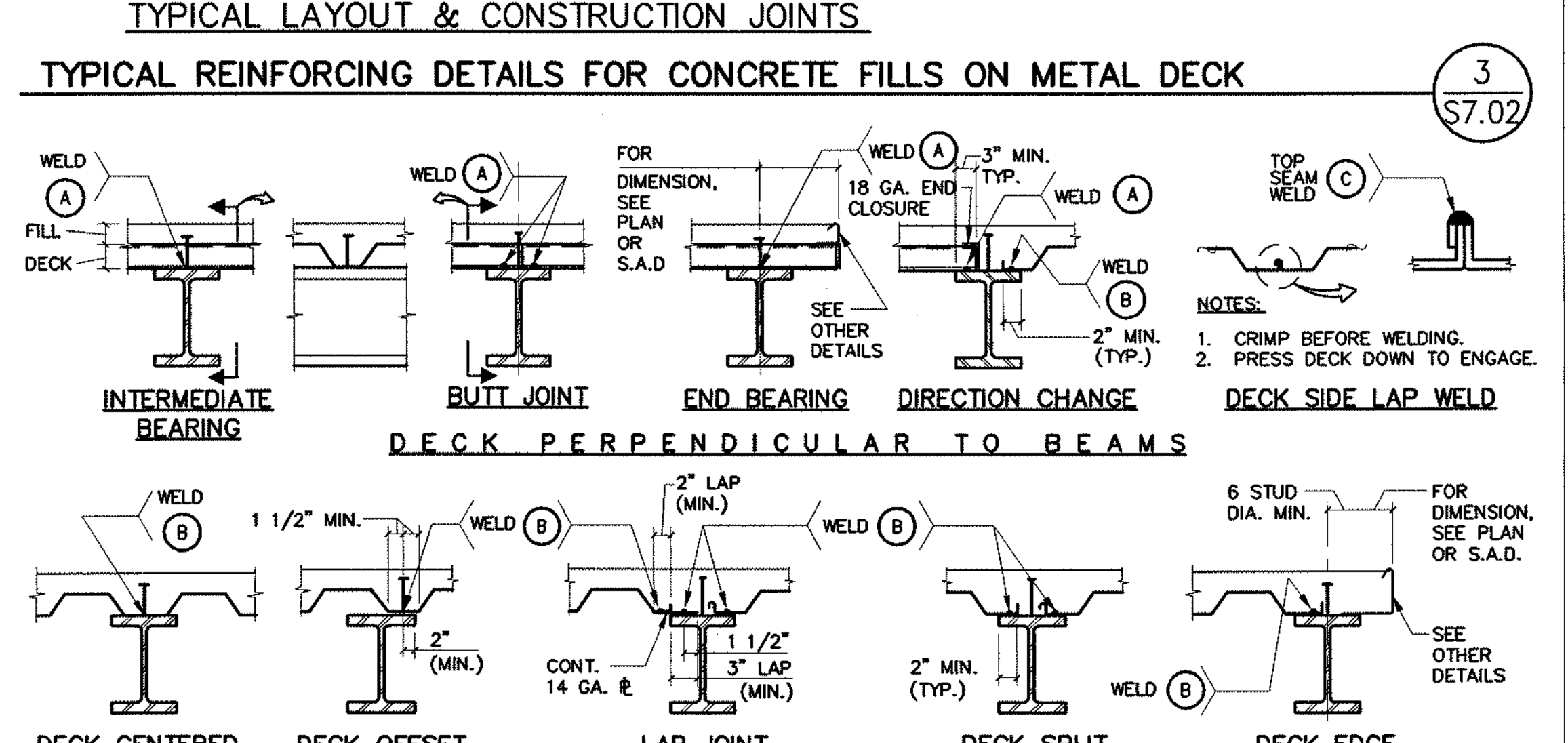
OVERHANG	1"	2"	3"	4"	5"	6"	7"	8"
for 1" up to 4"	18	18	16	14	12	12	12	12
4 1/2"	18	16	16	14	12	12	12	12
5"	18	16	14	12	12	12	12	12
5 1/2"	18	16	14	12	12	12	12	10
6"	16	16	14	12	12	12	12	10
6 1/2"	16	14	14	12	12	12	12	10
7"	14	14	12	12	12	12	12	10
7 1/2"	14	12	12	12	12	10	10	10

DECK FLUTES PERPENDICULAR TO BEAM

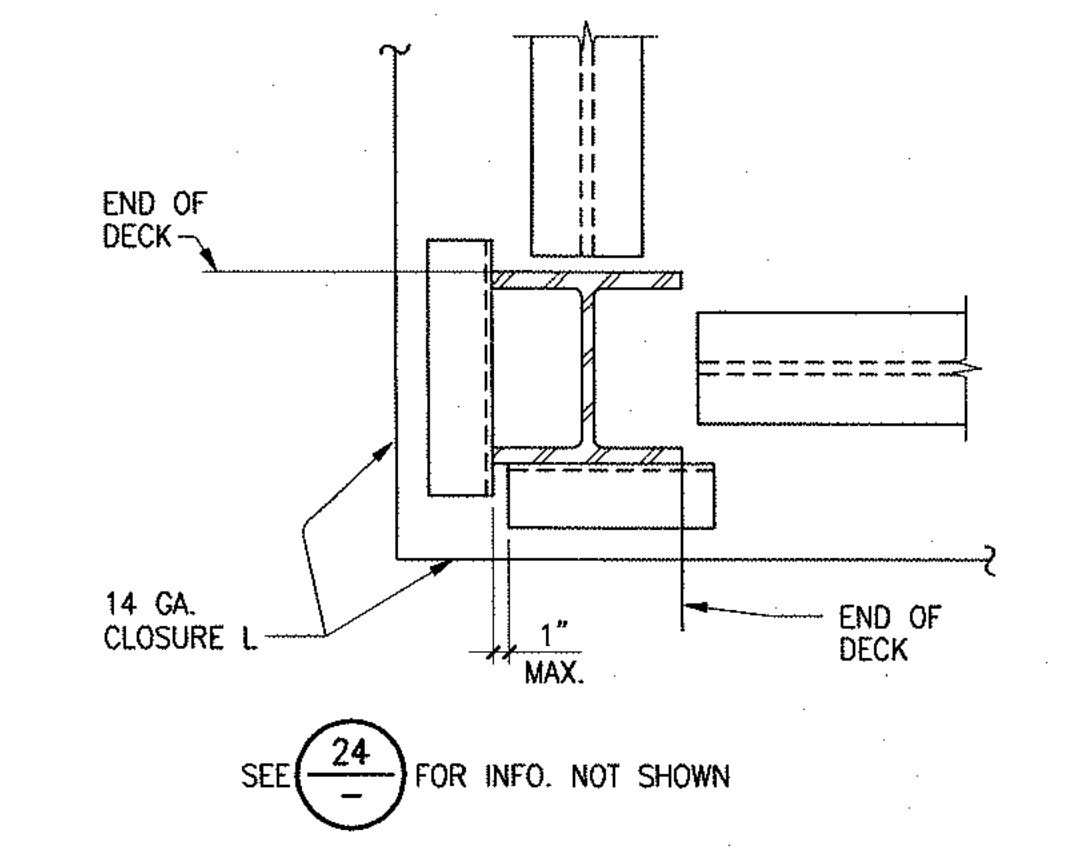
DECK FLUTES PARALLEL TO BEAM

(USE FOR FLUTES SKEWED RELATIVE TO BEAM)

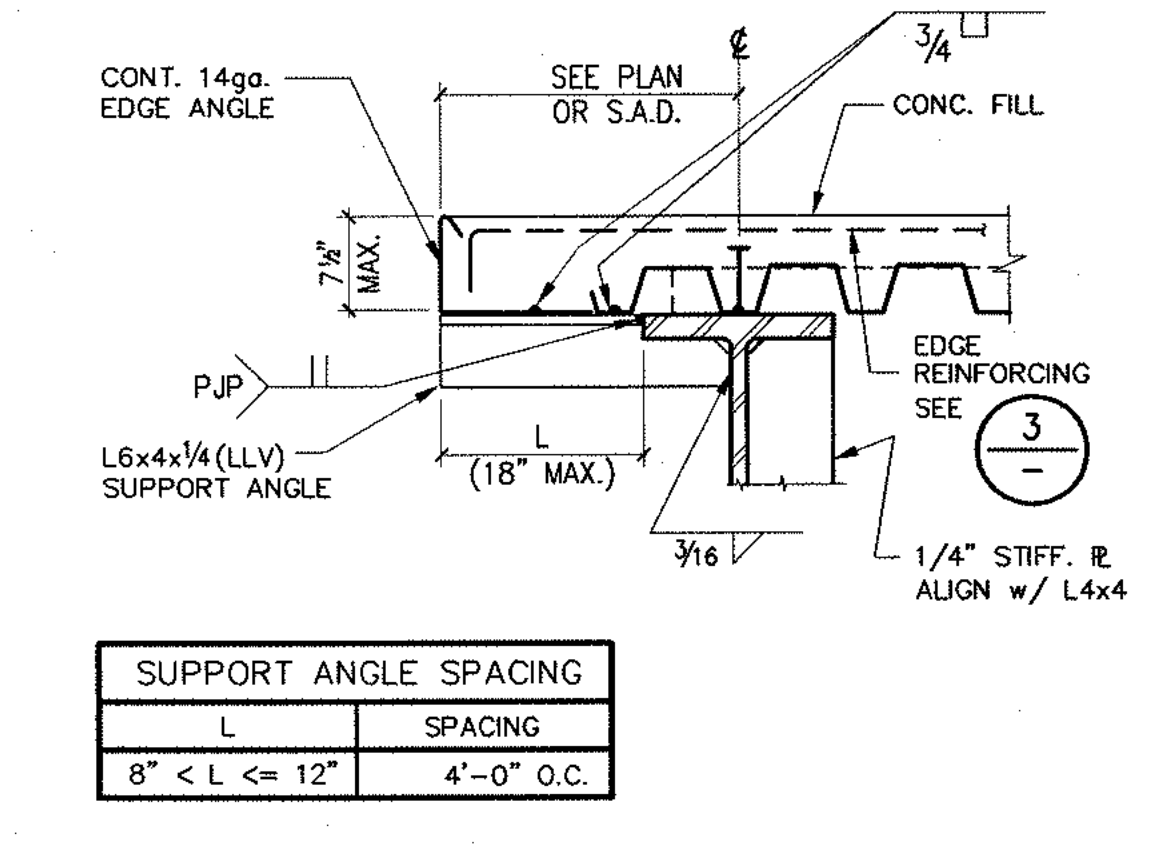
TYPICAL DECK AND SHEAR STUD DOUBLE ROW OF STUDS 14
\$7.02



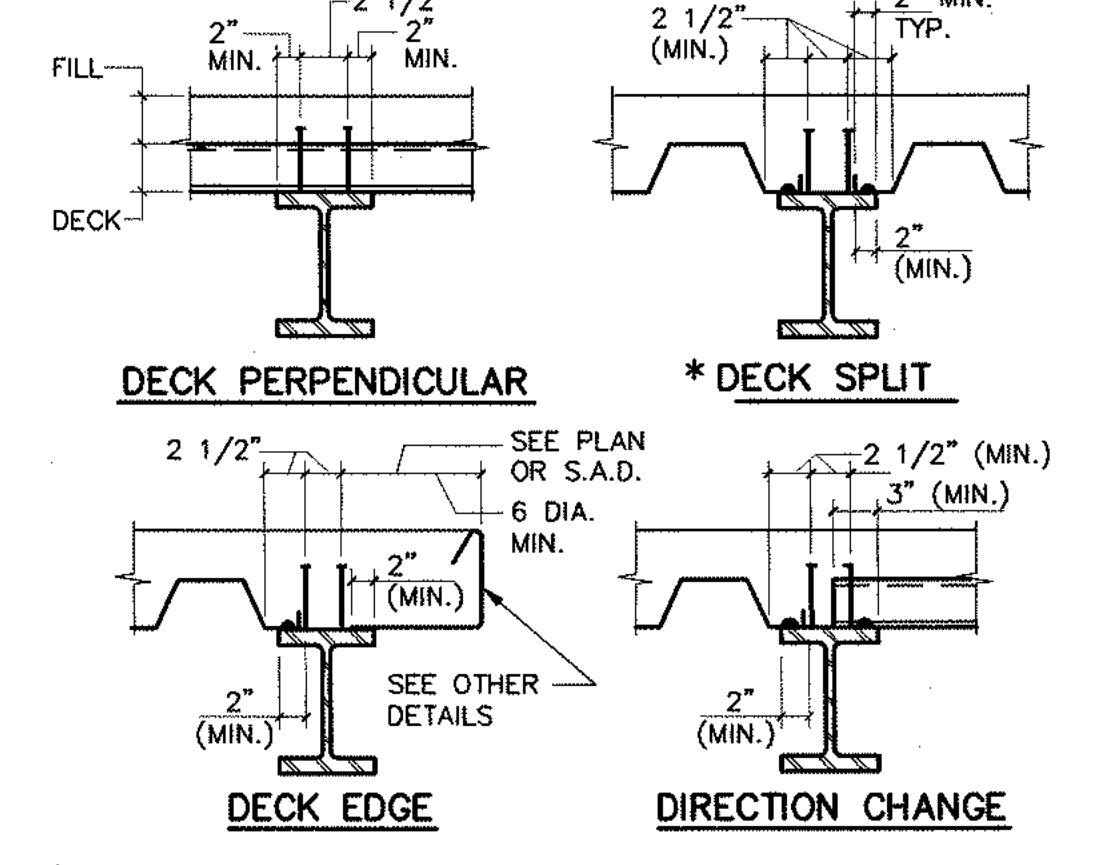
TYPICAL SHEAR STUD AND DECK WELD DETAILS - SINGLE ROW OF STUDS W/ CONCRETE FILL 4
\$7.02



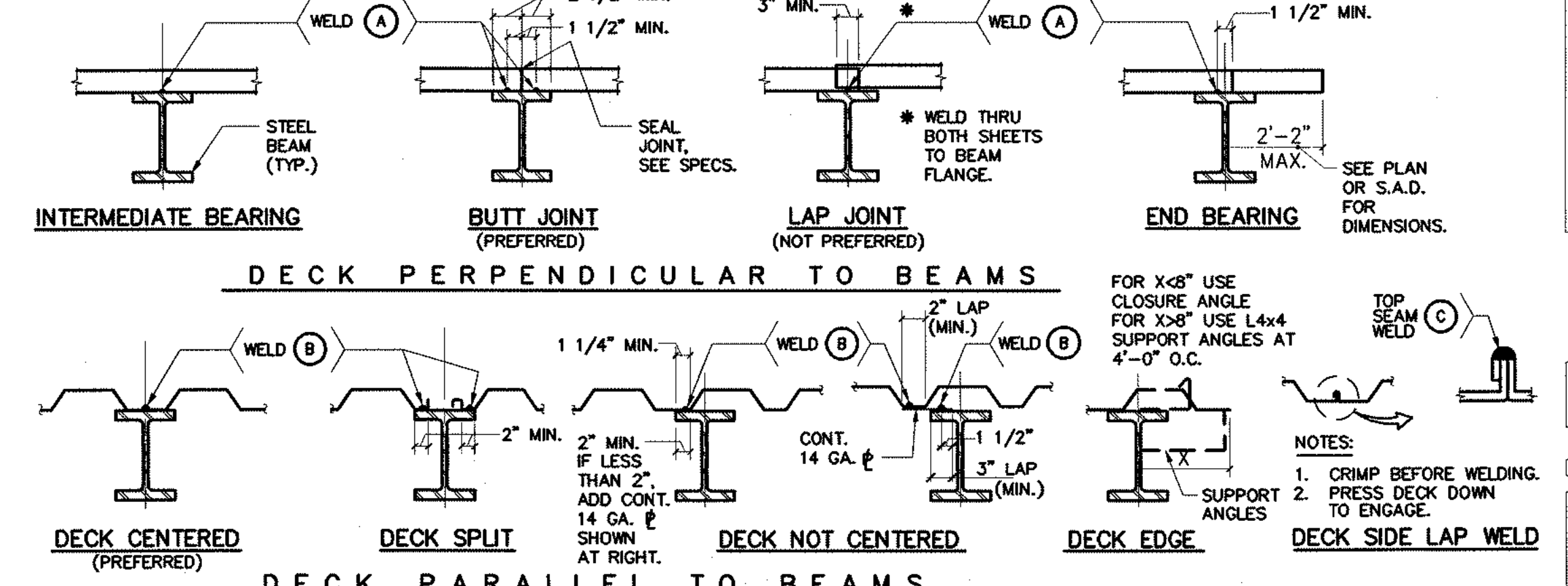
TYPICAL DECK SUPPORT AT CORNER COLUMN 25
NO SCALE \$7.02



TYPICAL EDGE OF DECK AT LARGE OVERHANGS 20
\$7.02



TYPICAL DECK AND SHEAR STUD DOUBLE ROW OF STUDS 15
\$7.02



TYPICAL STEEL DECK TO BEAM WELD DETAILS - NO SHEAR STUDS OR CONCRETE FILL 5
\$7.02

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REGISTERED PROFESSIONAL ENGINEER
No. 52451
Exp. 3/31/06
STRUCTURAL
STATE OF CALIFORNIA

CA UPDATE SET

TYPICAL
METAL
DECK
DETAILS

Scale: NO SCALE Date: 2003.04.18
Drawn by: KPL/opez Project number: 1035
Sheet number: \$7.02

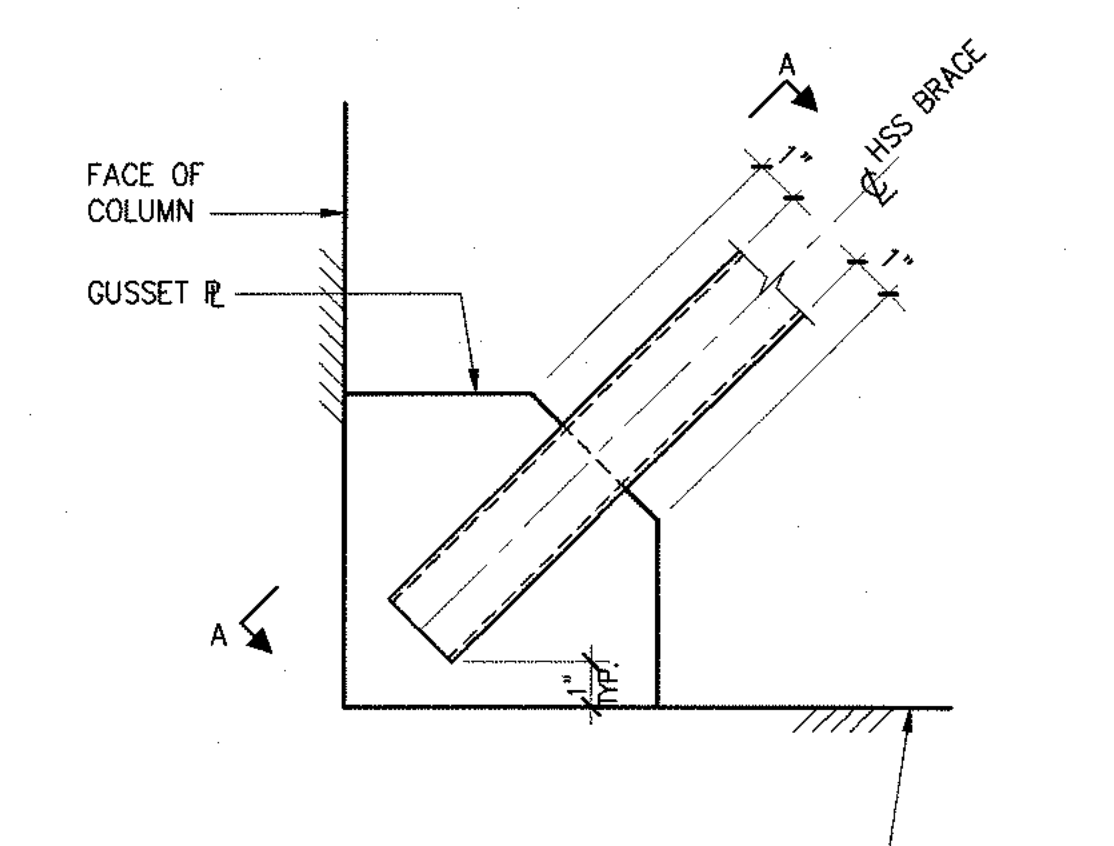
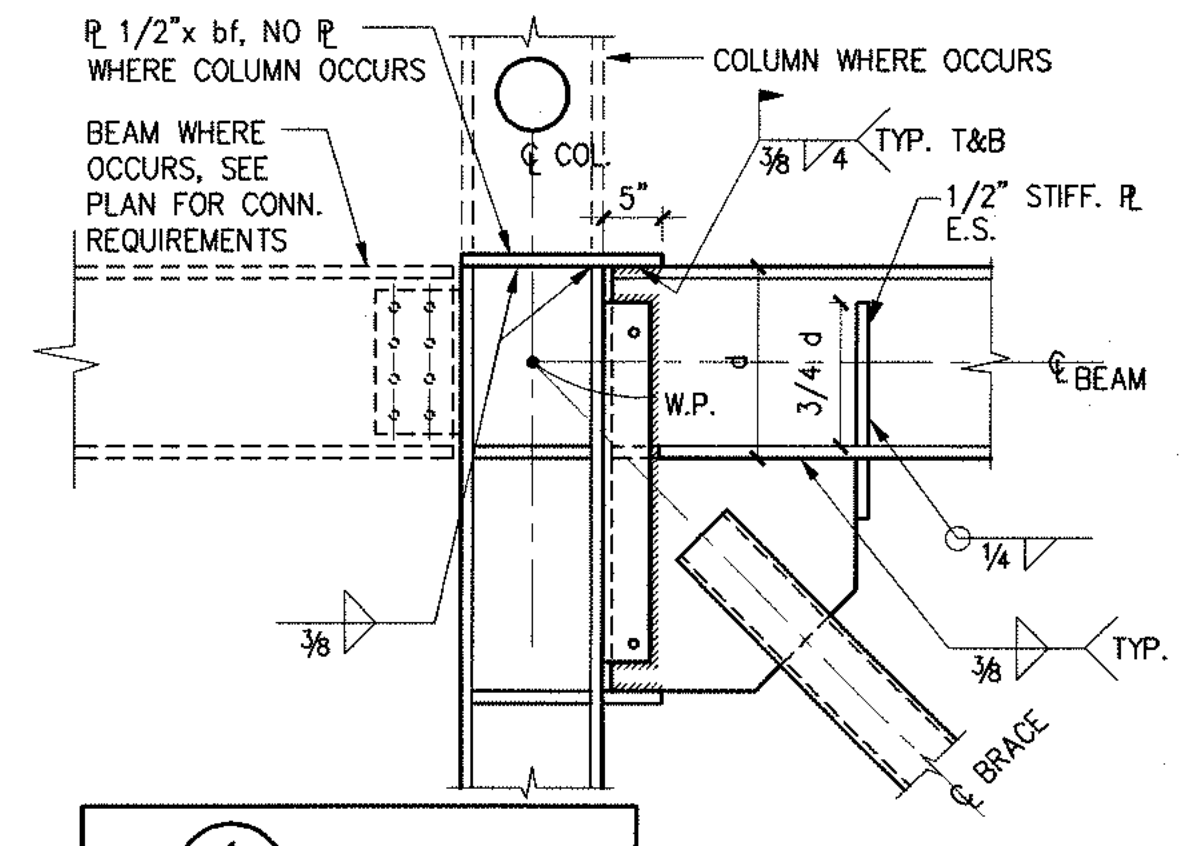
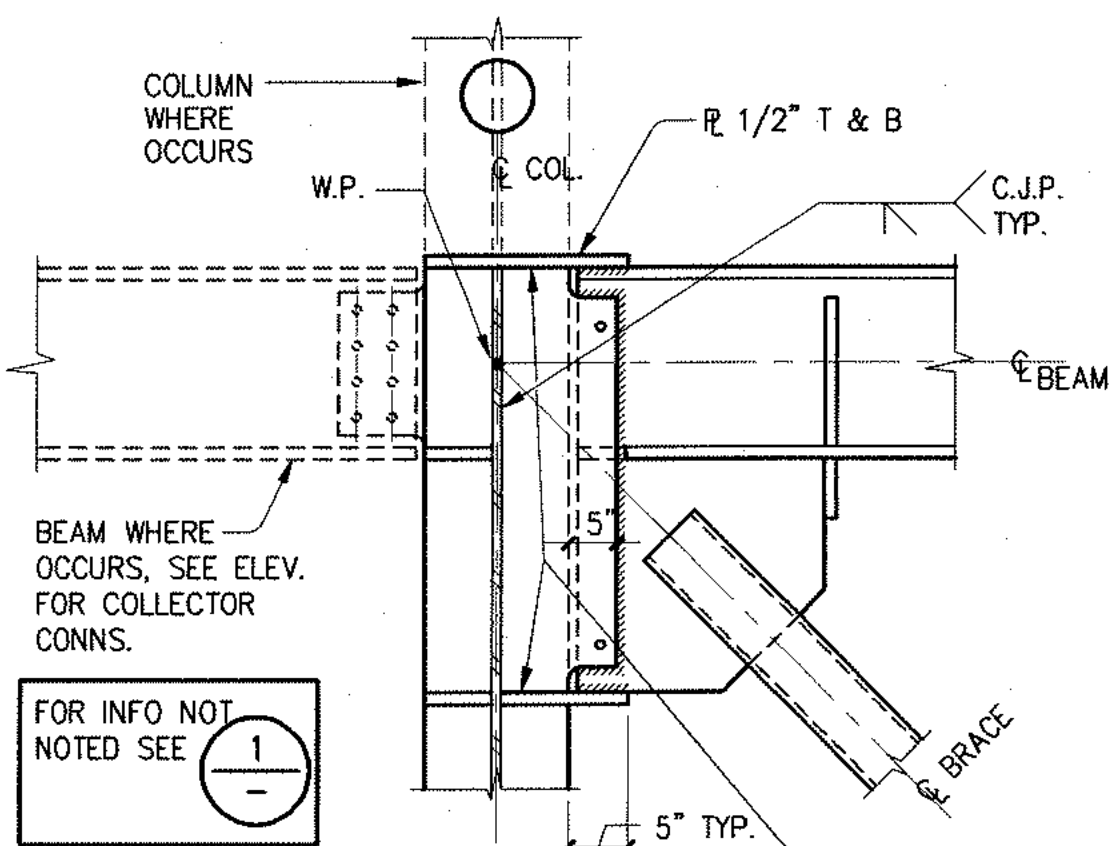
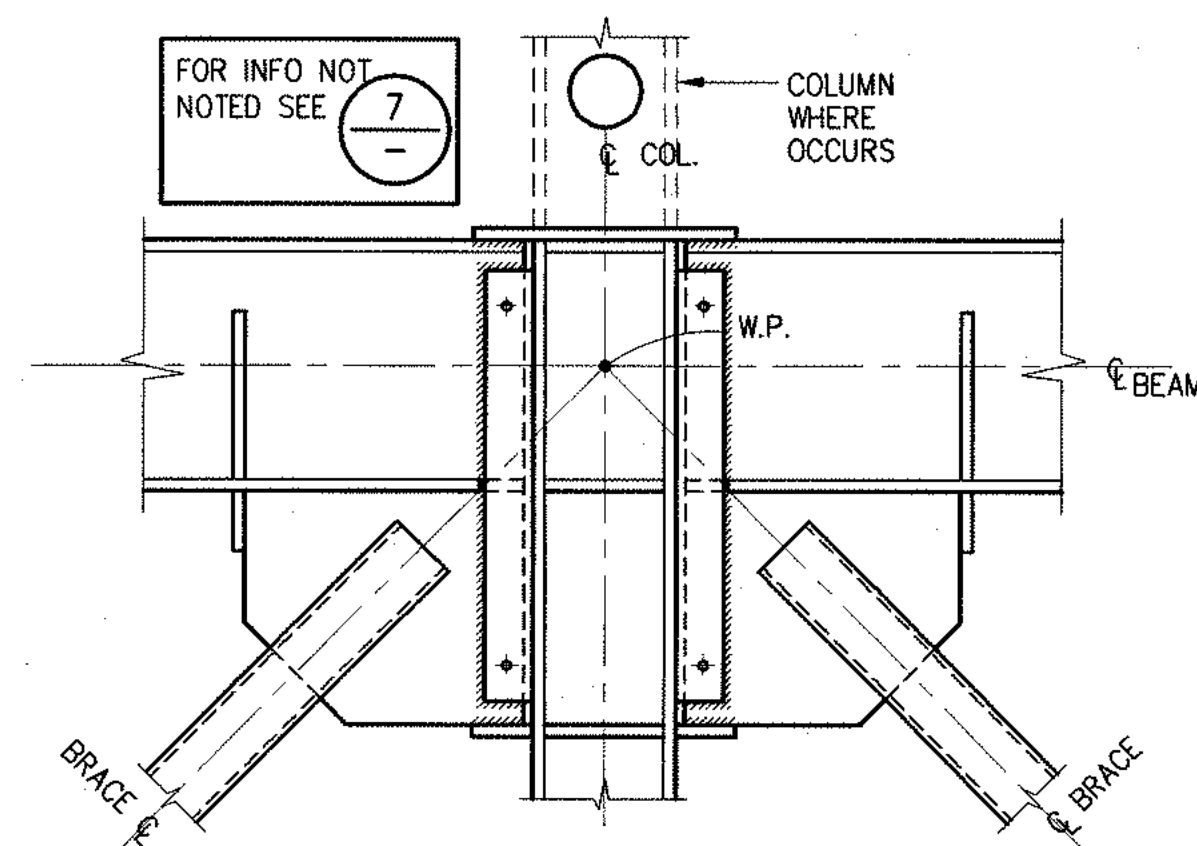
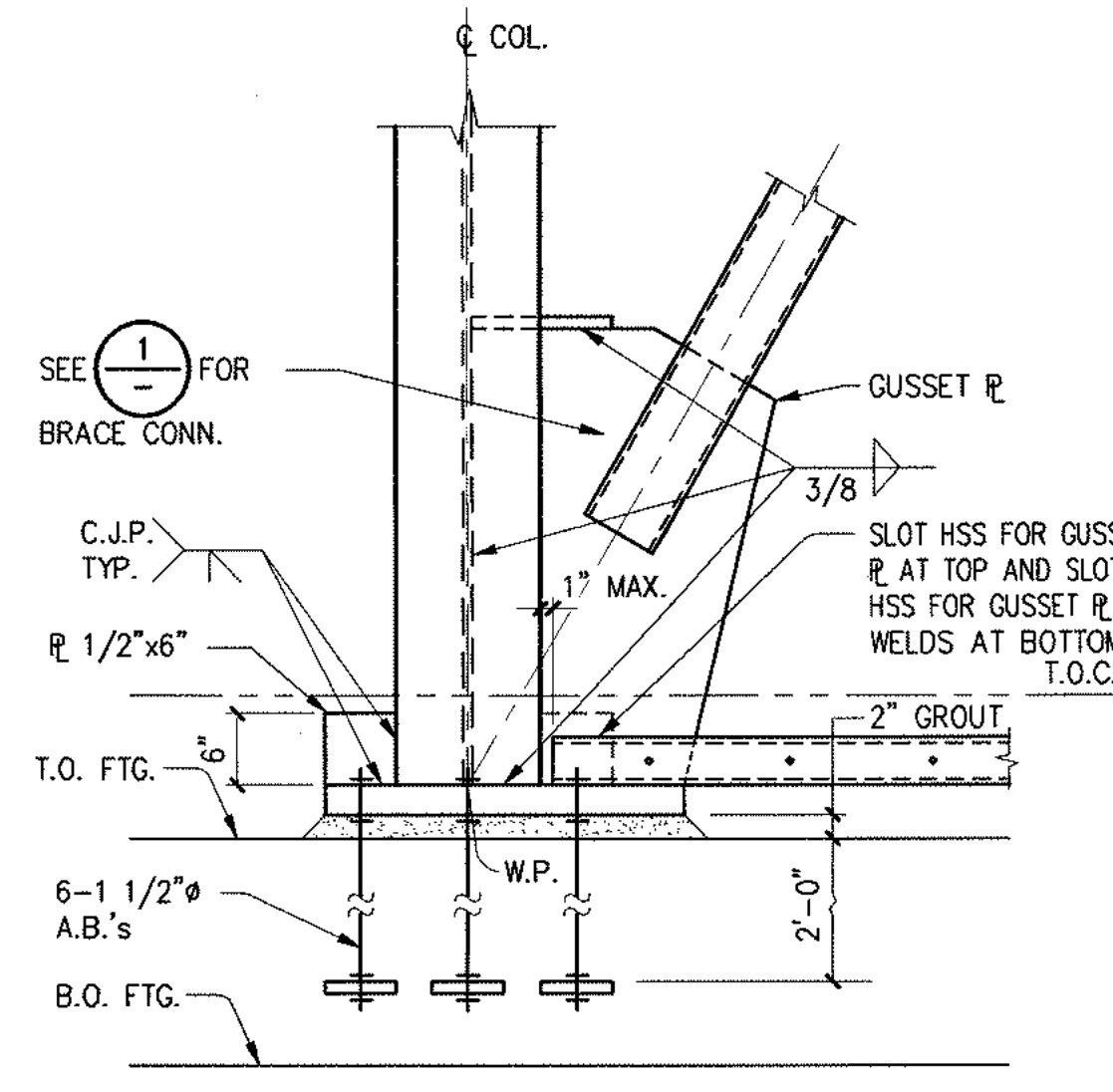
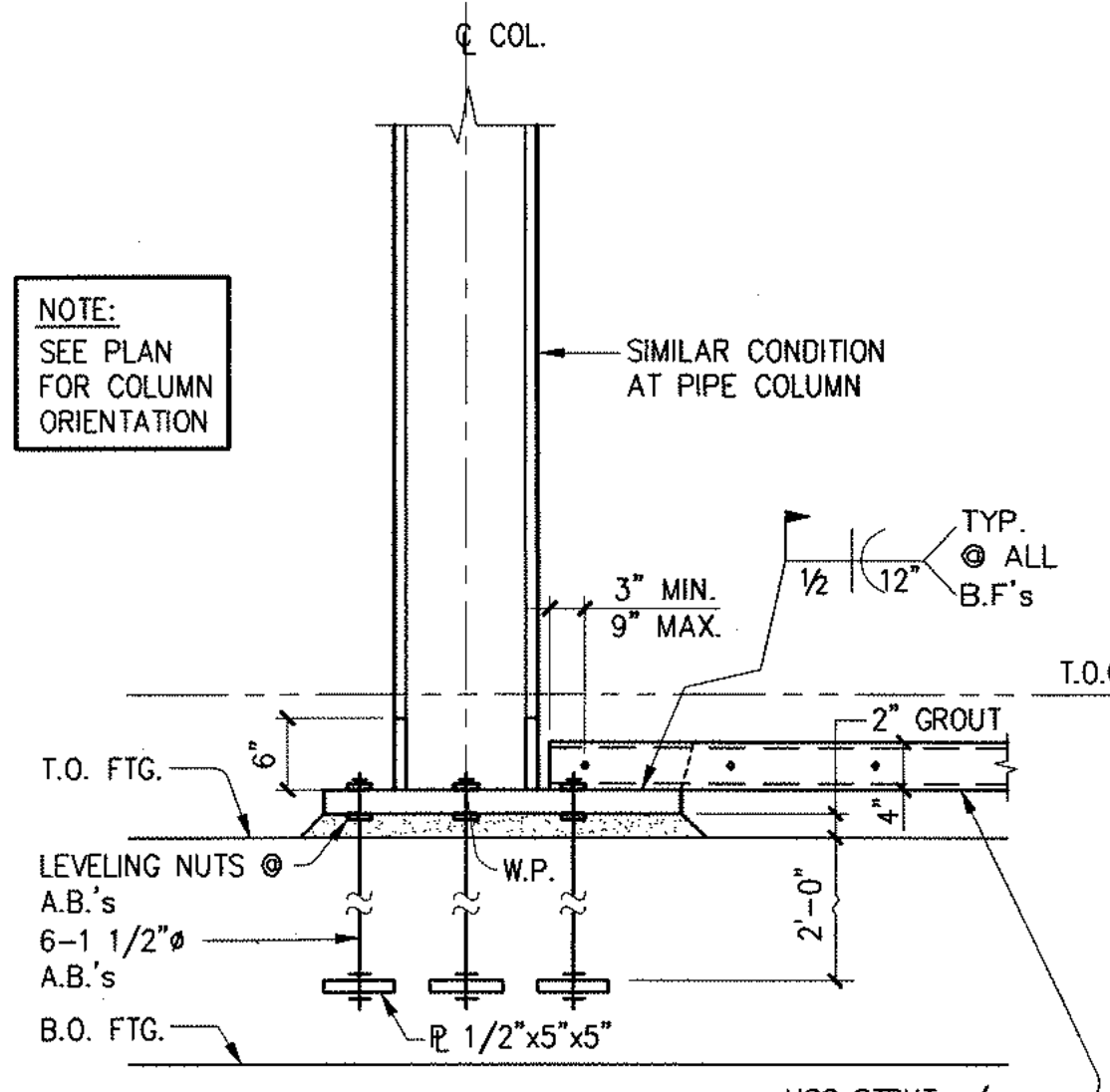
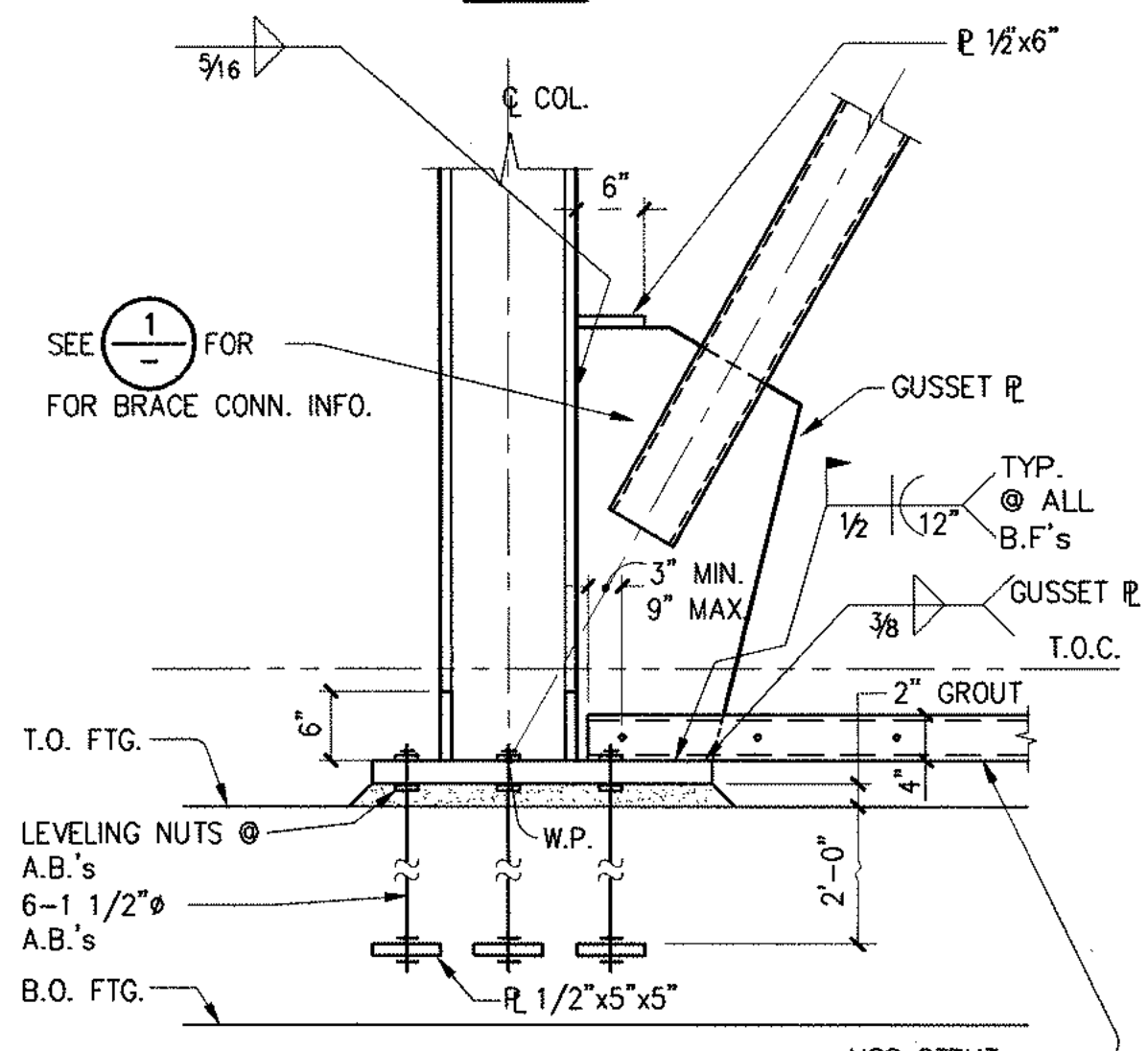
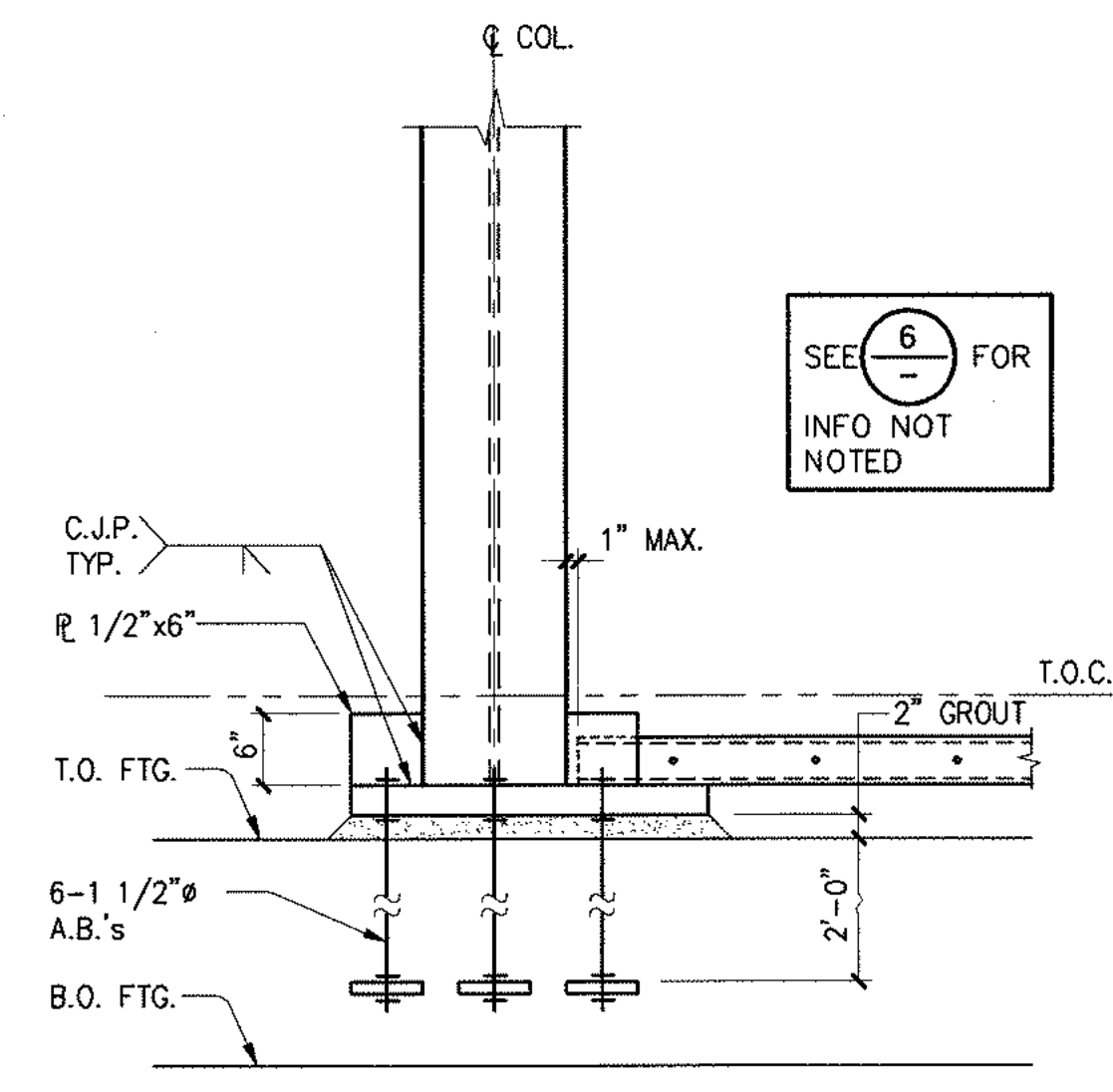
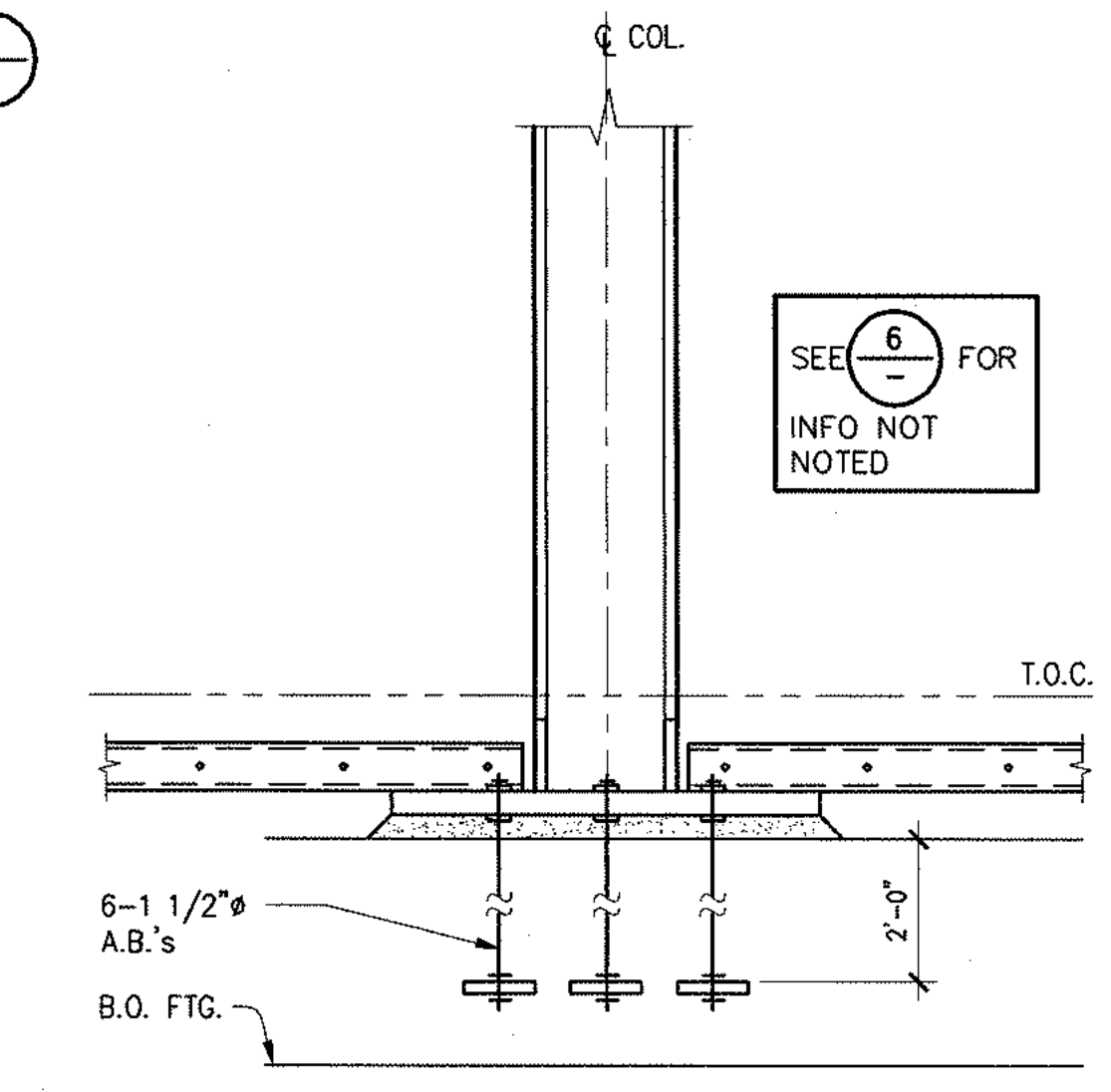
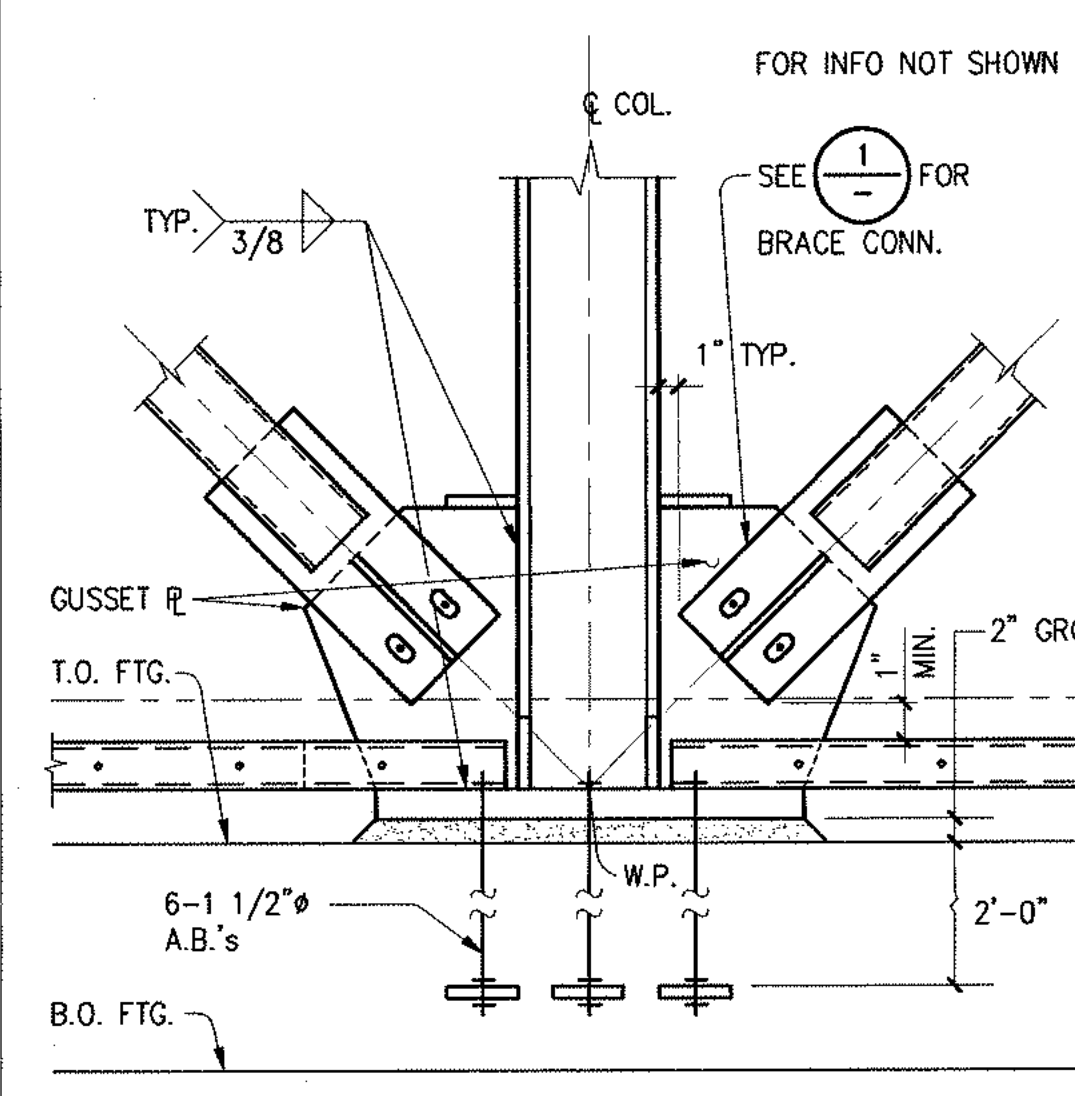
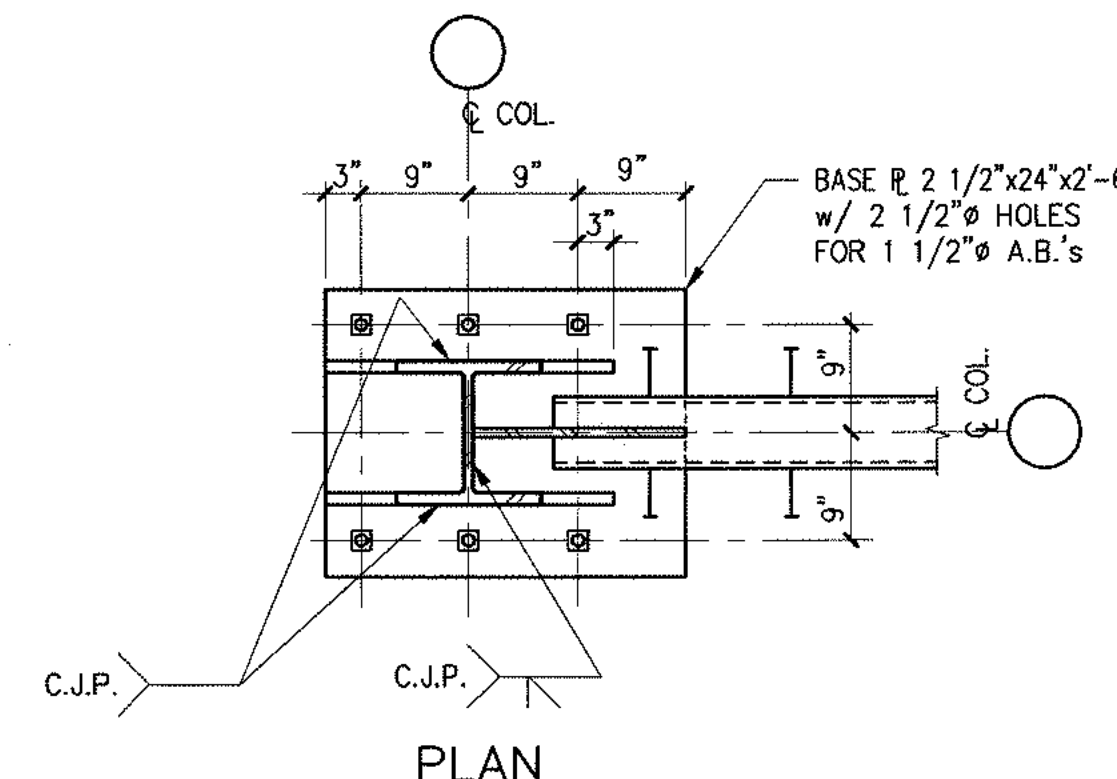
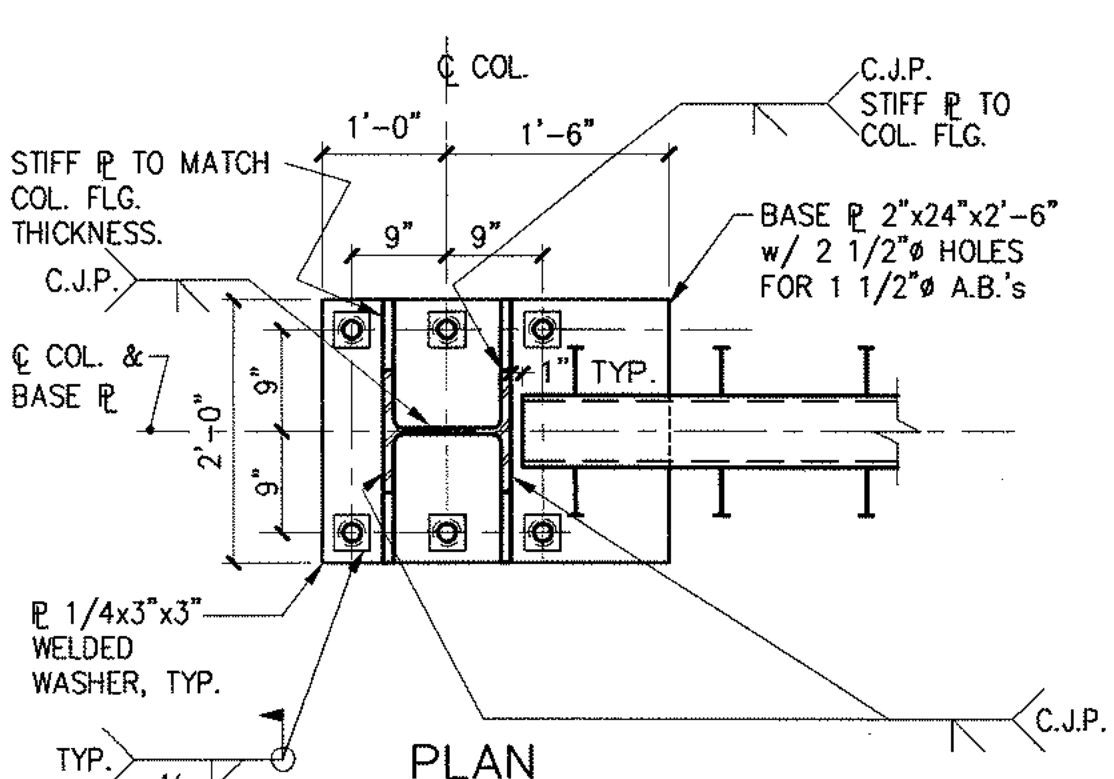
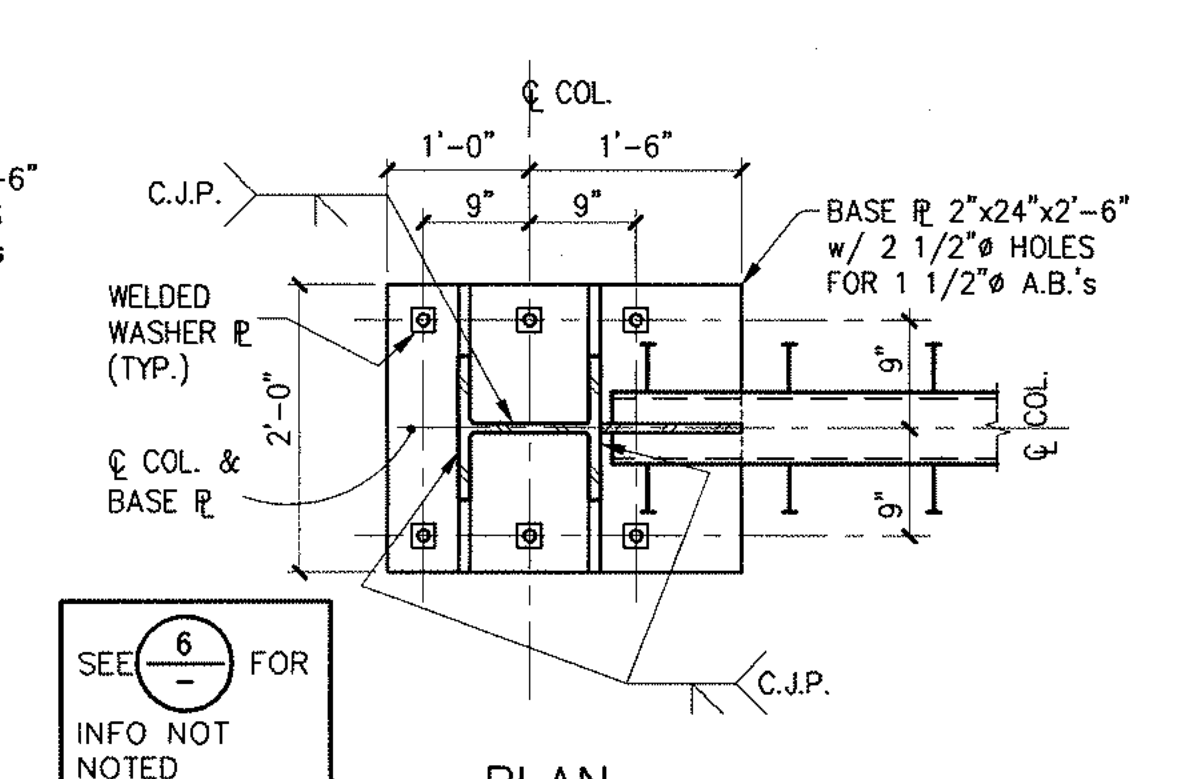
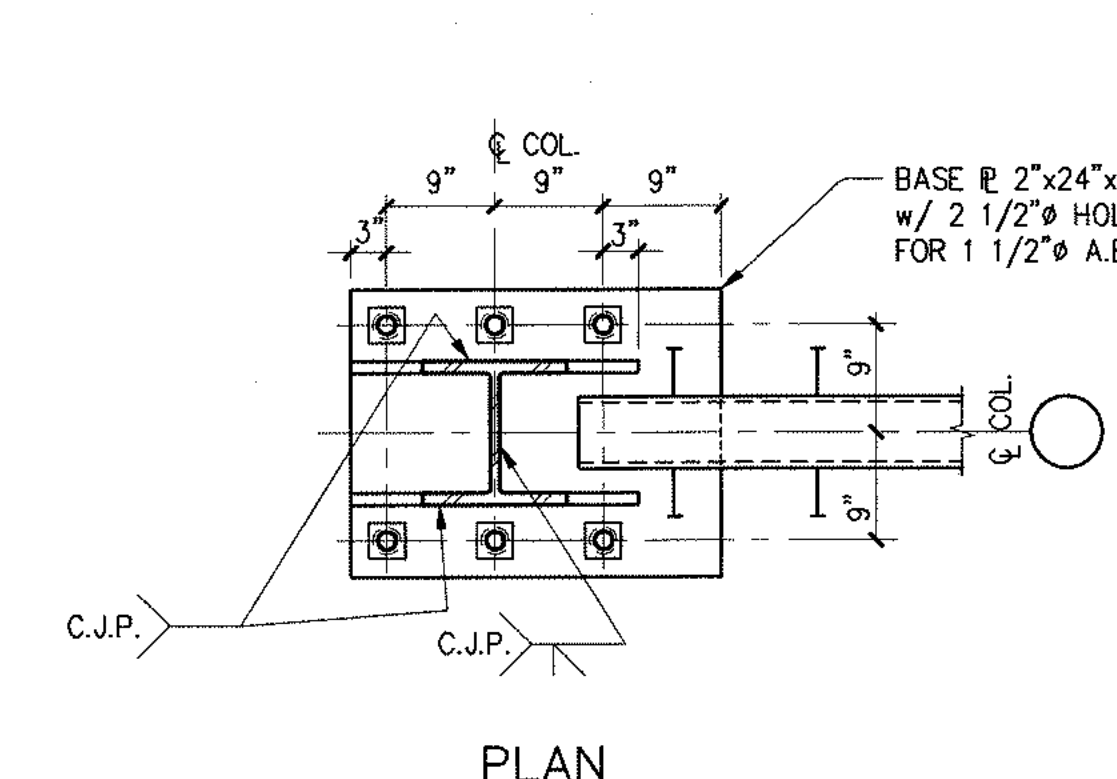
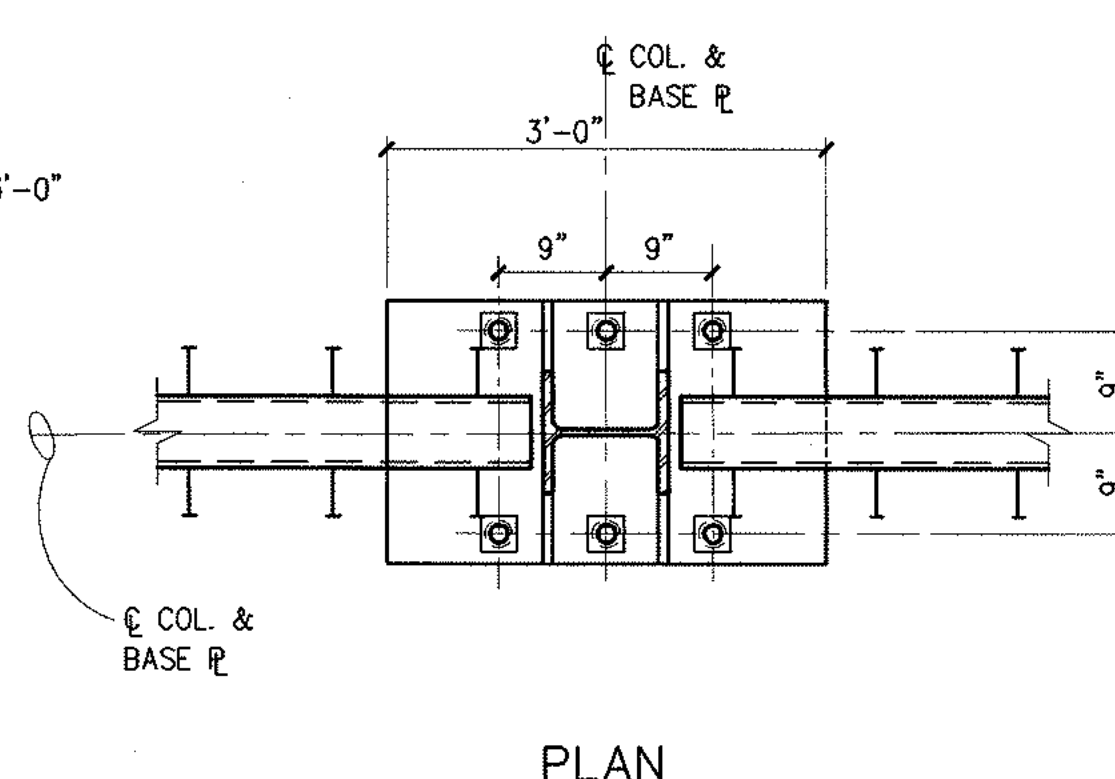
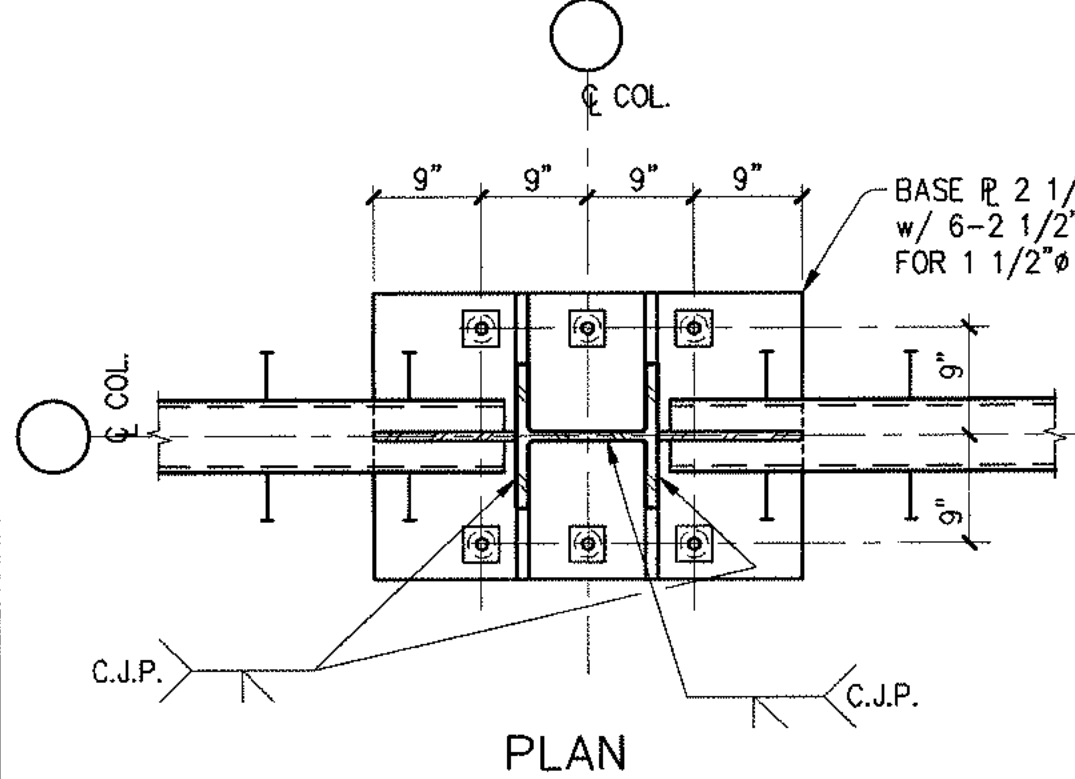
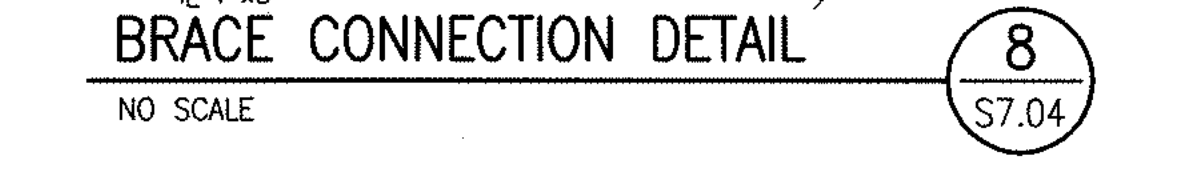
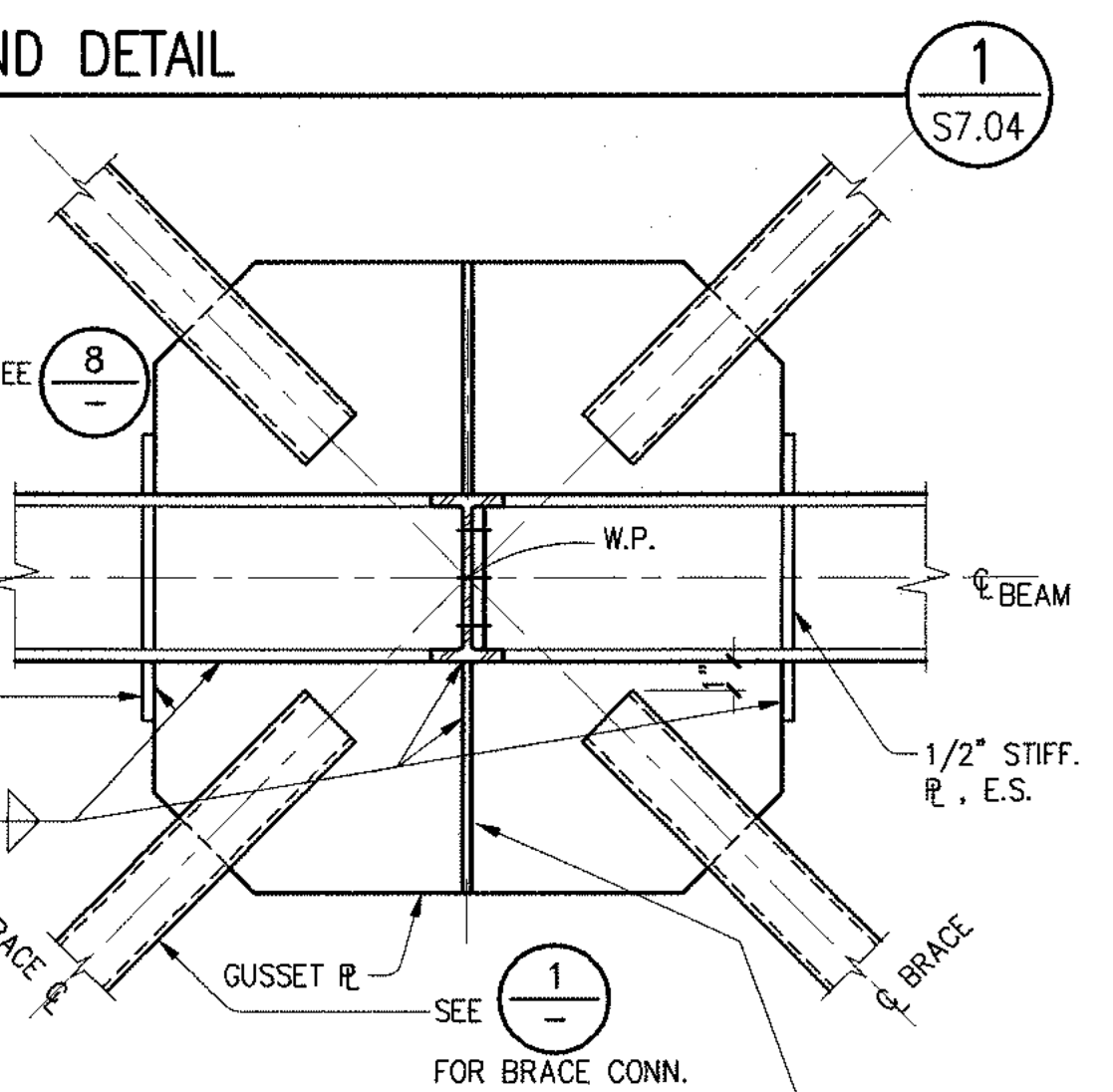
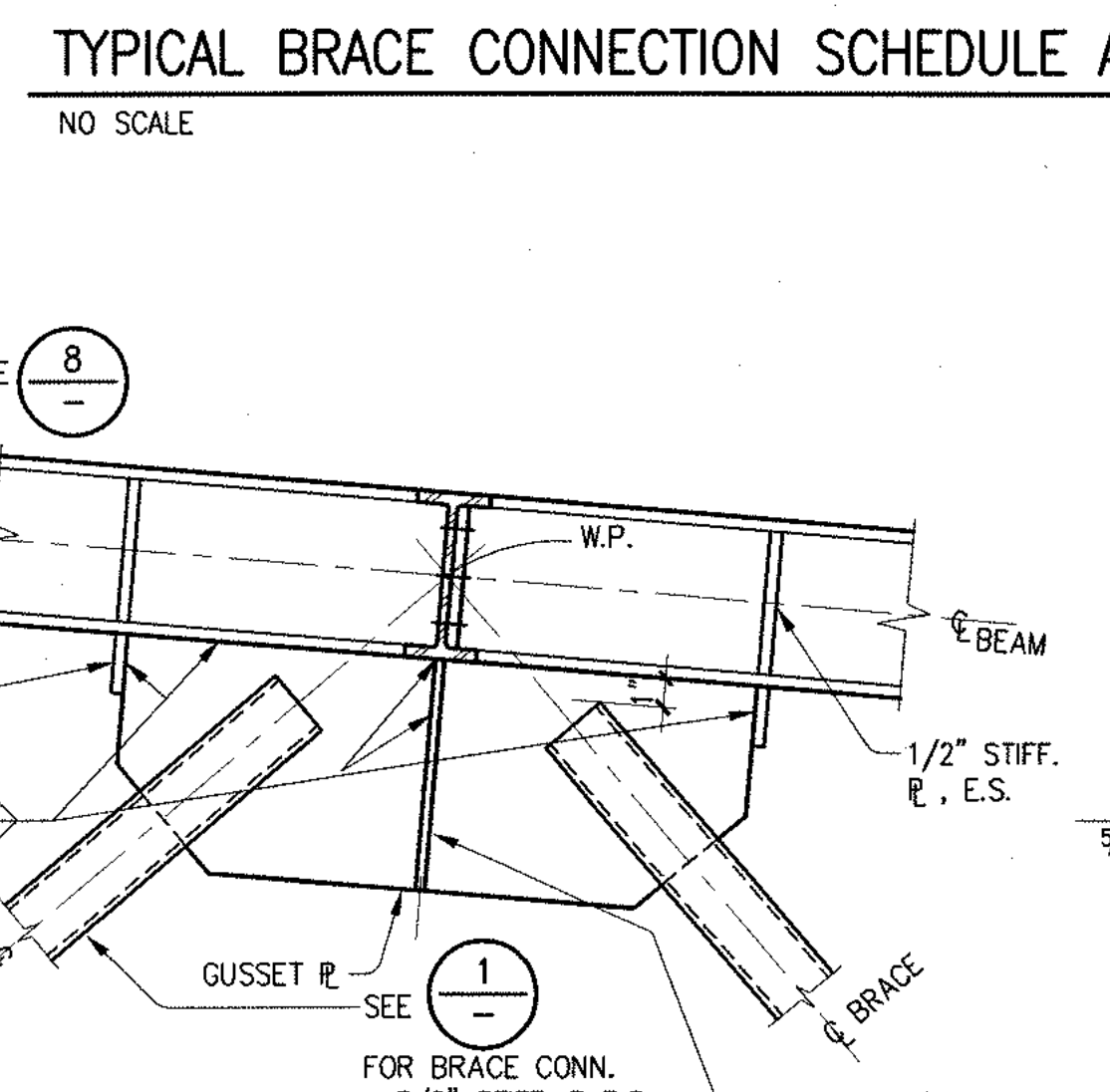
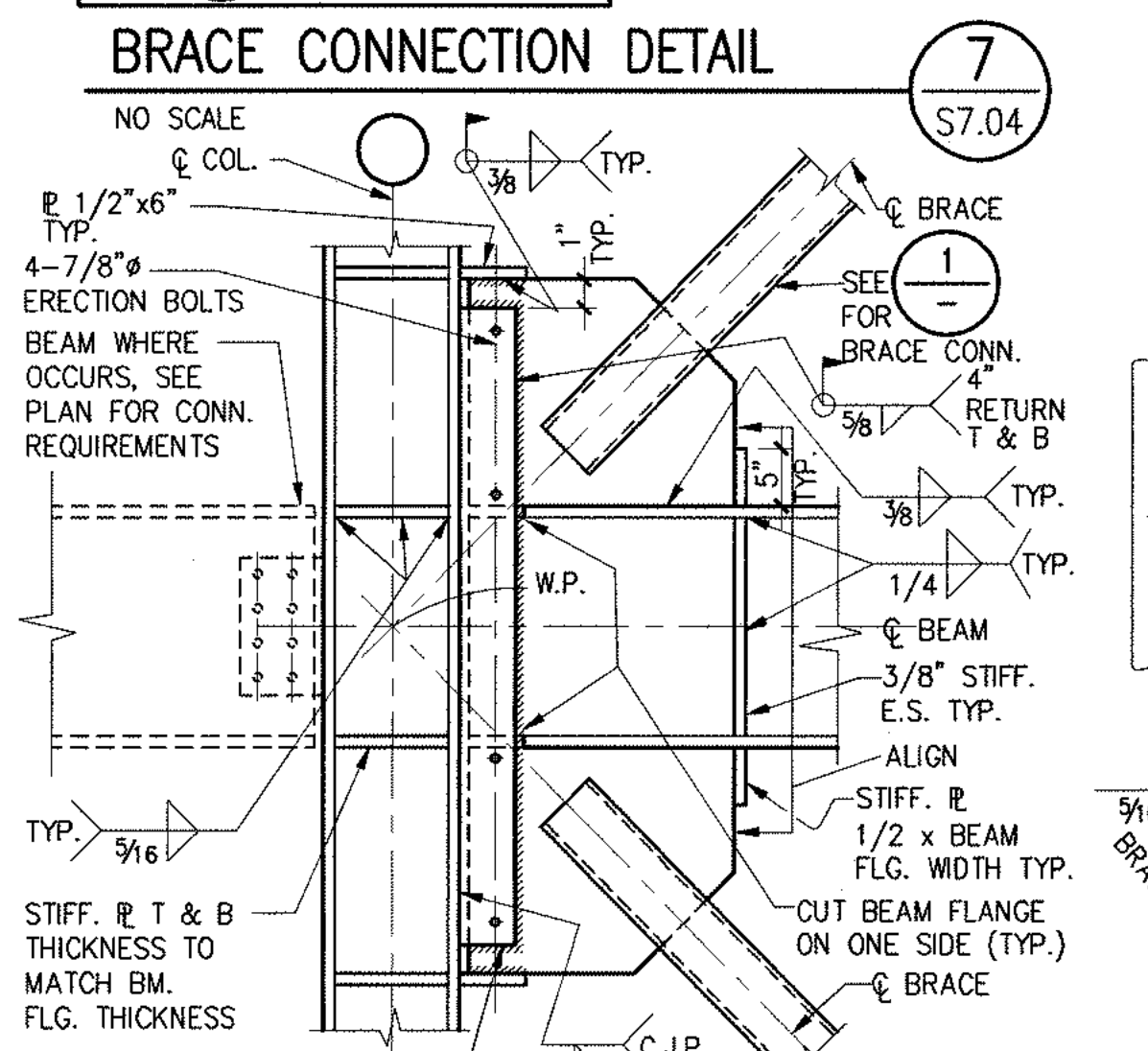
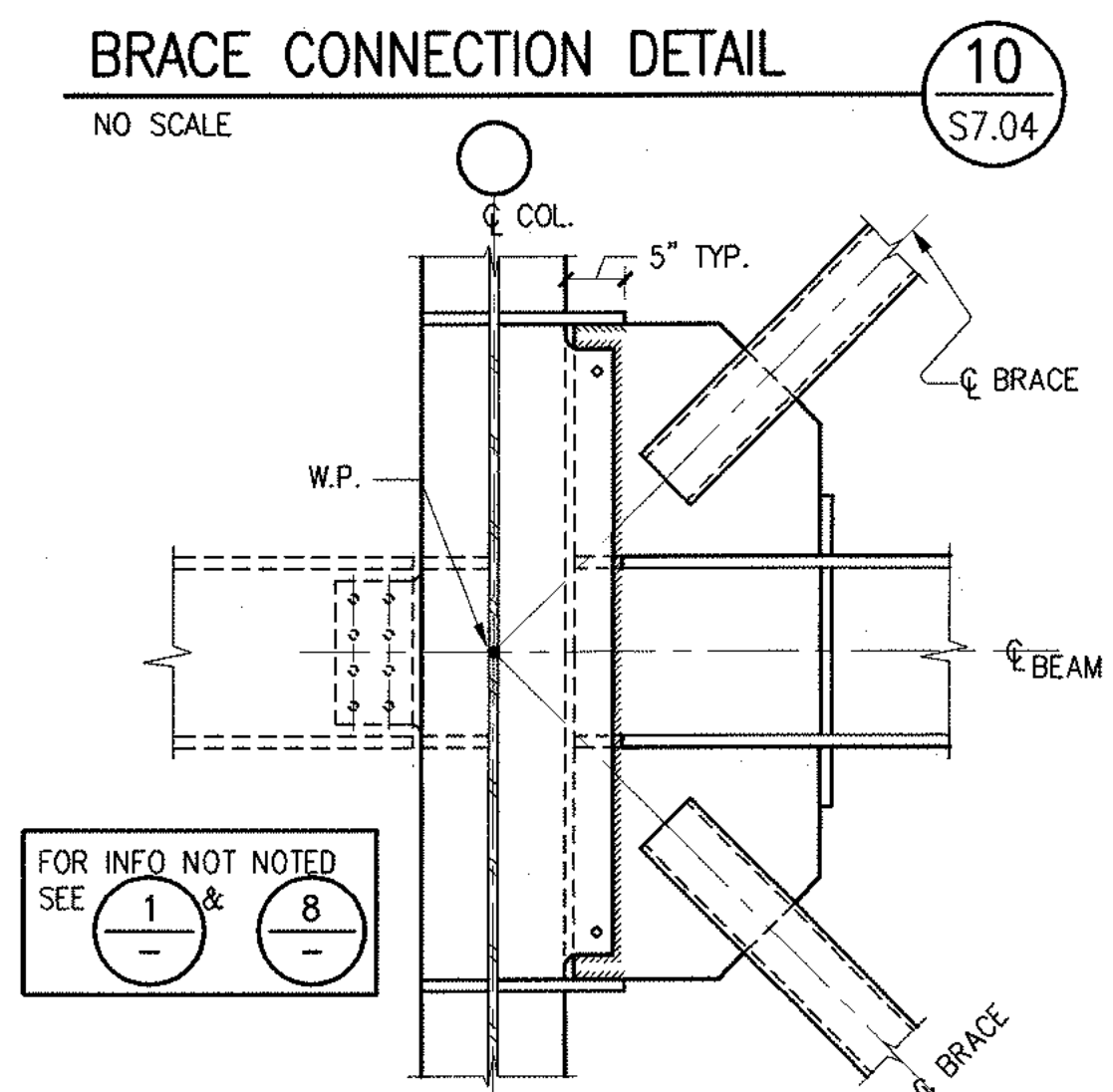
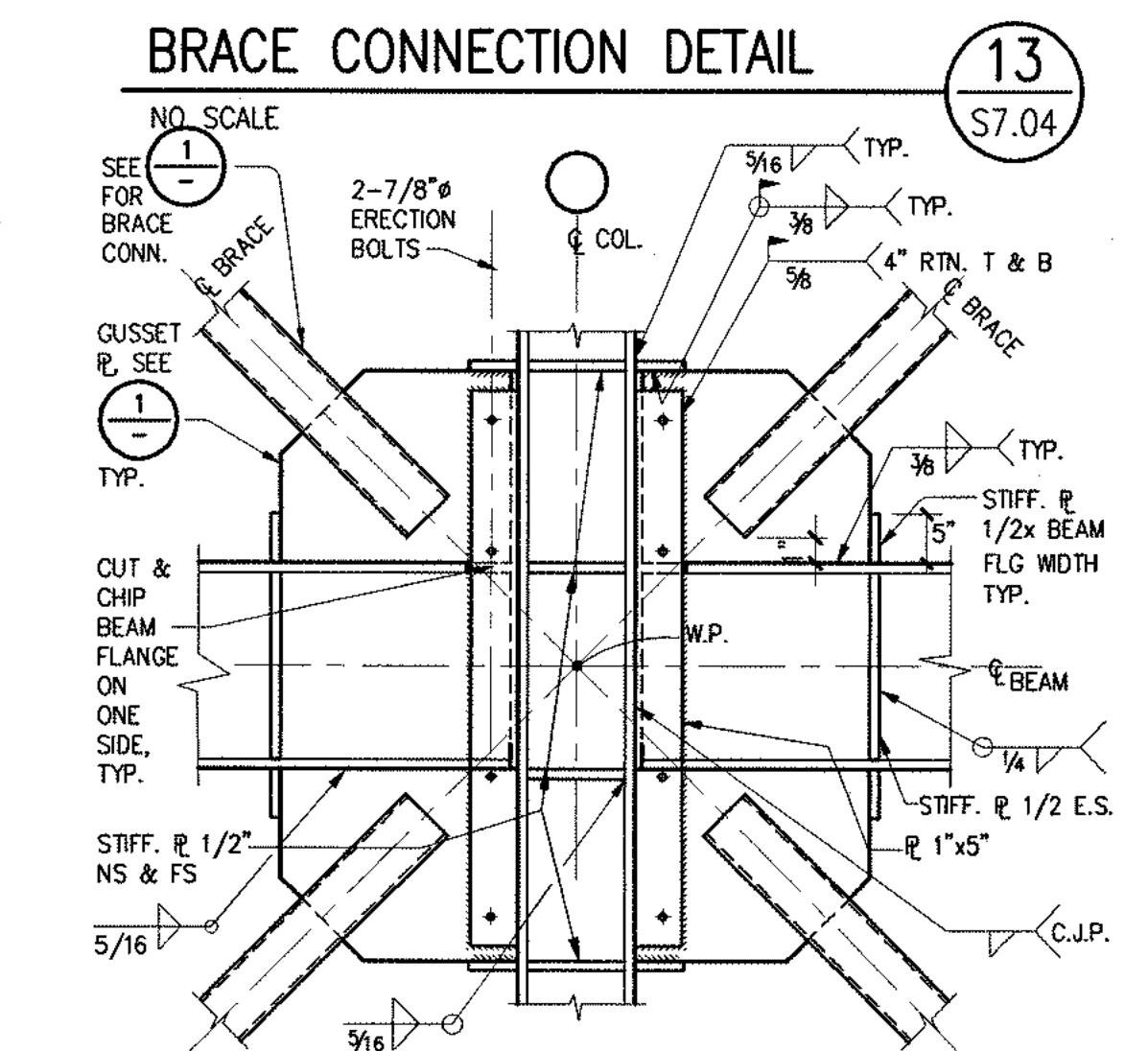


PLATE AND WELDING SCHEDULE

BRACE SIZE	GUSSET R	WELD "B"	L ₁
HSS8x8	3/4"	3/8"	20"
HSS10x10	3/4"	3/8"	28"



BRACE BASE PLATE DETAIL 18 S7.04

BRACE BASE PLATE DETAIL 15 S7.04

BRACE BASE PLATE DETAIL 12 S7.04

BRACE BASE PLATE DETAIL 9 S7.04

BRACE BASE PLATE DETAIL 6 S7.04

BRACE BASE PLATE DETAIL 3 S7.04

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 408 777 3354 T
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 1600 Sacramento Inn Way
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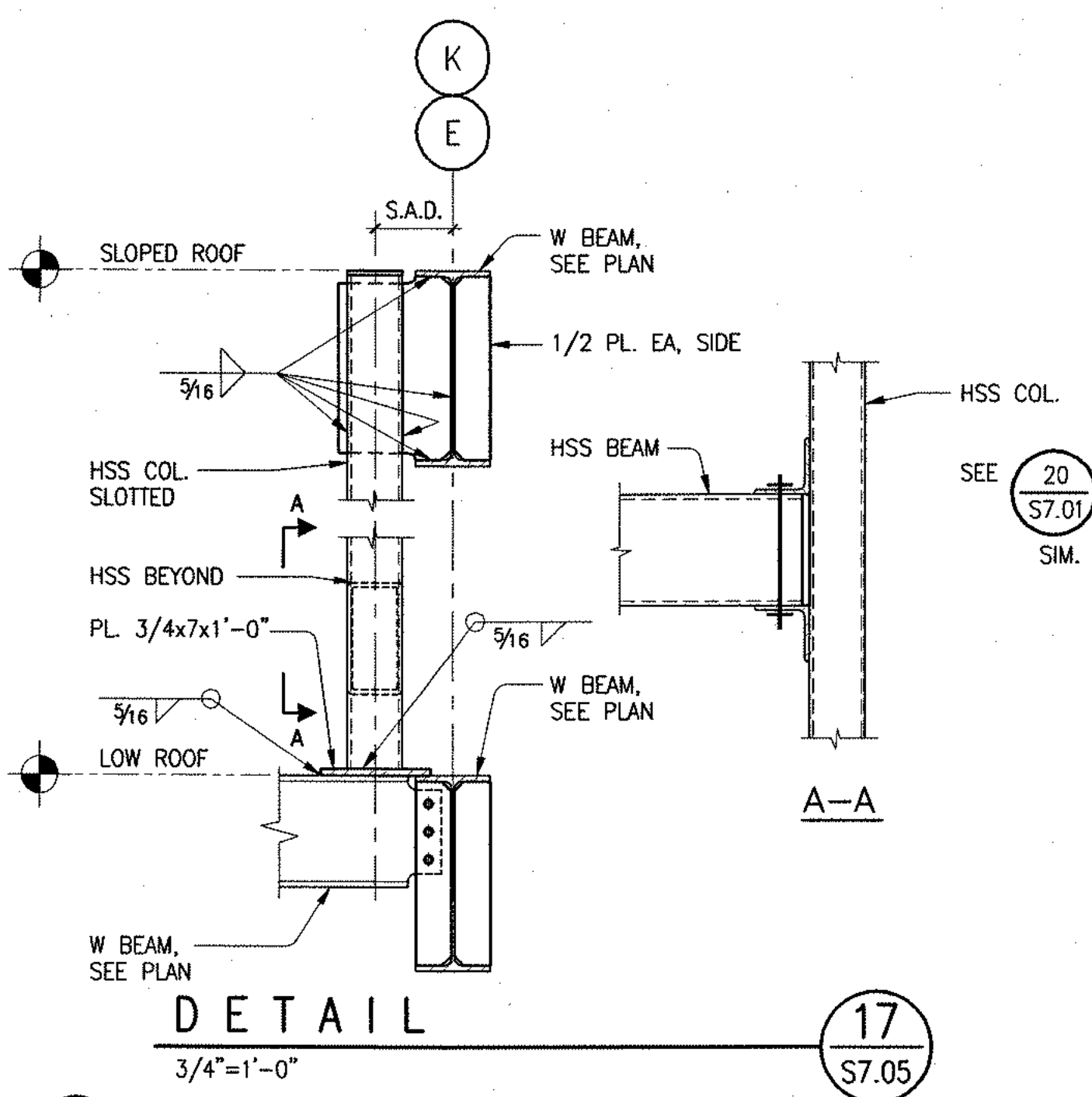
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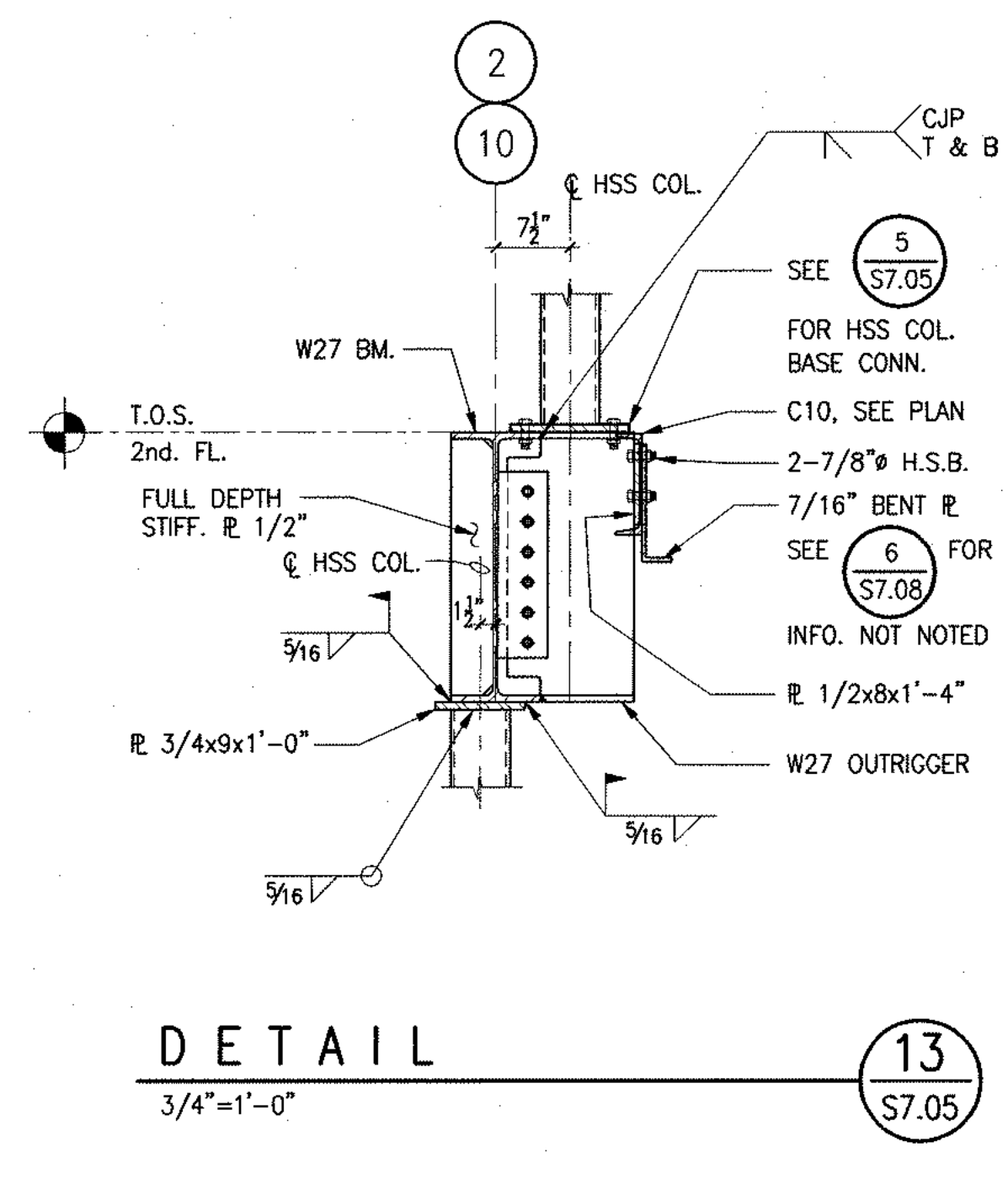
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 FRAME
 DETAILS

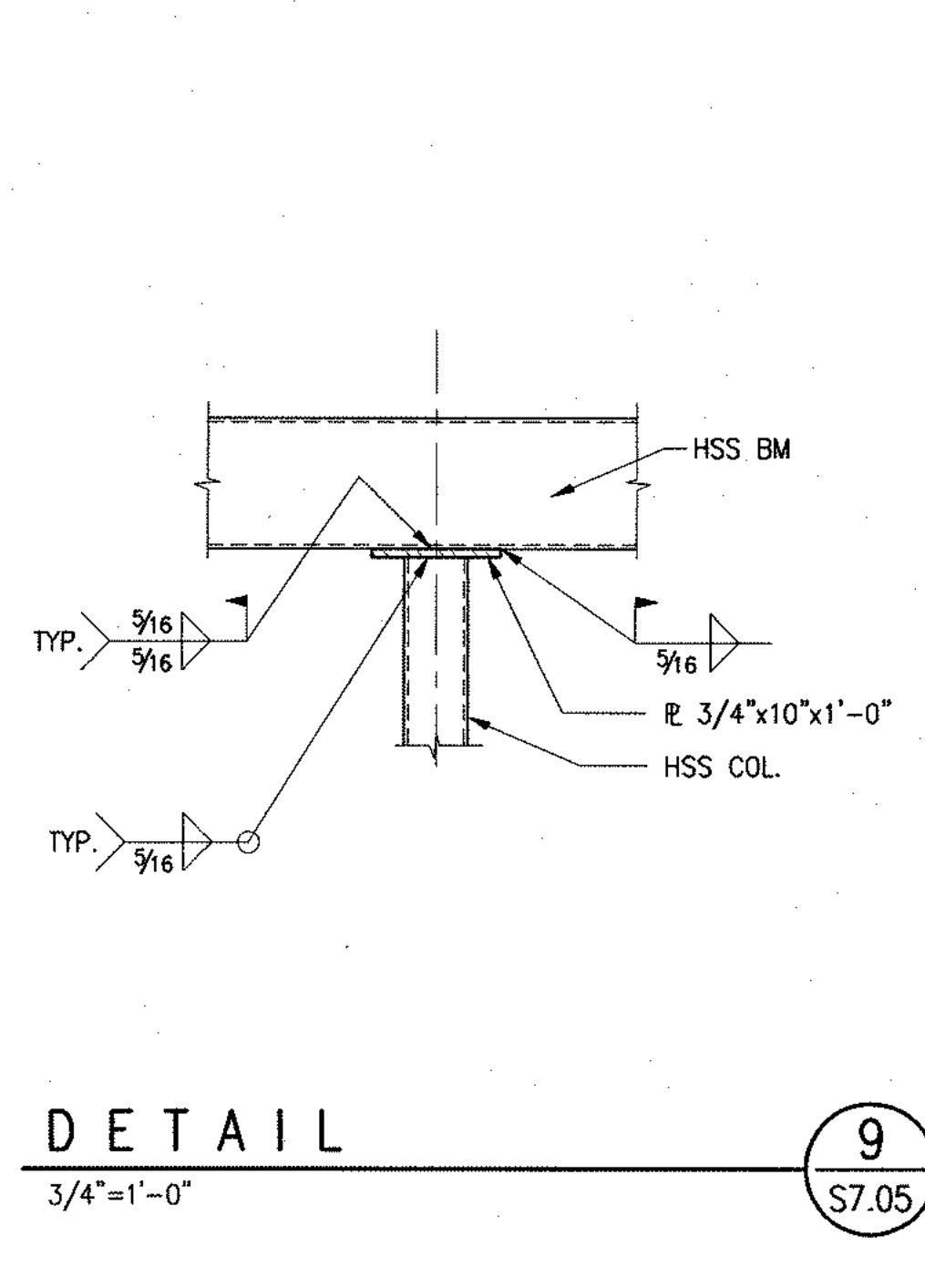
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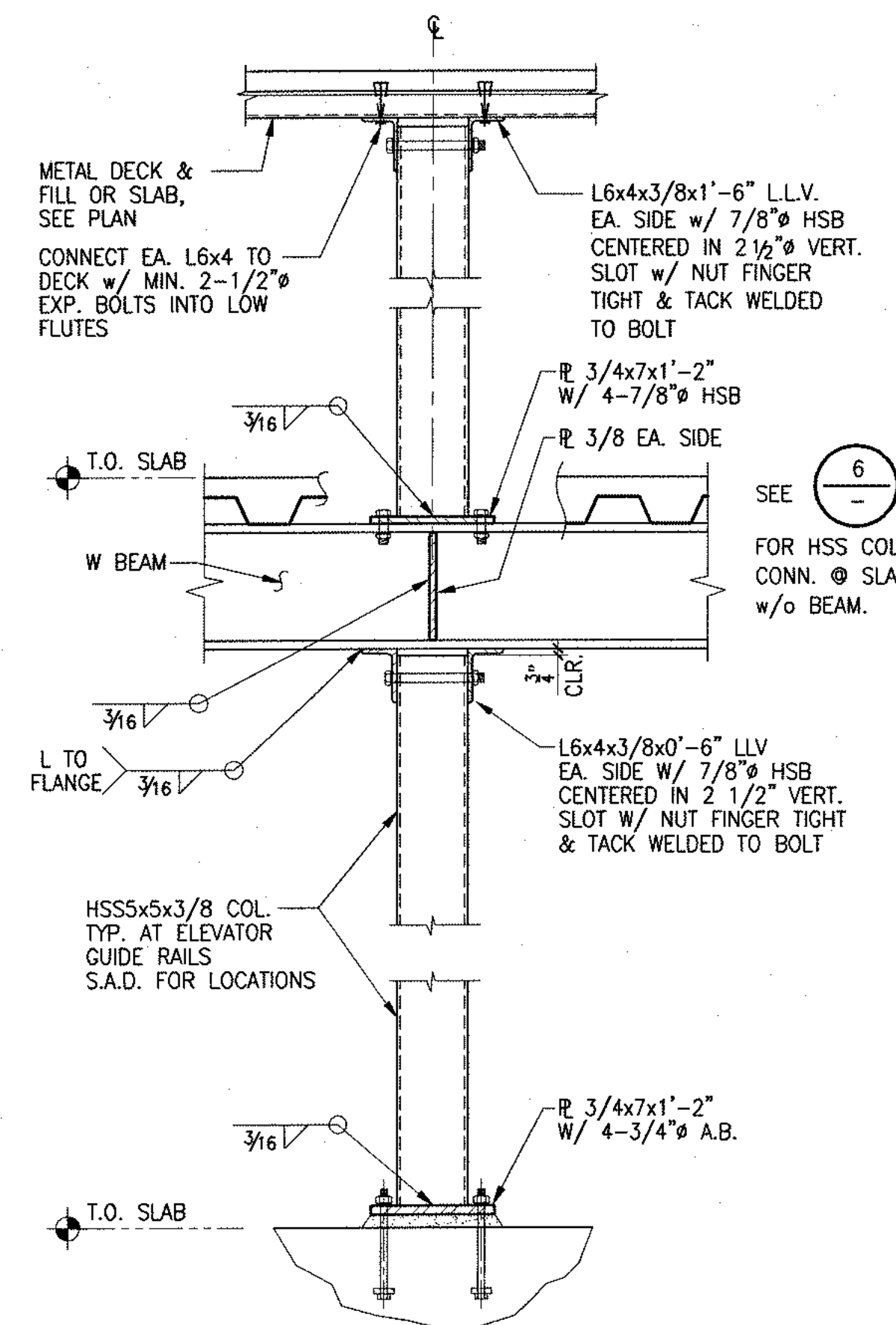
DETAIL 17
3/4"=1'-0" S7.05



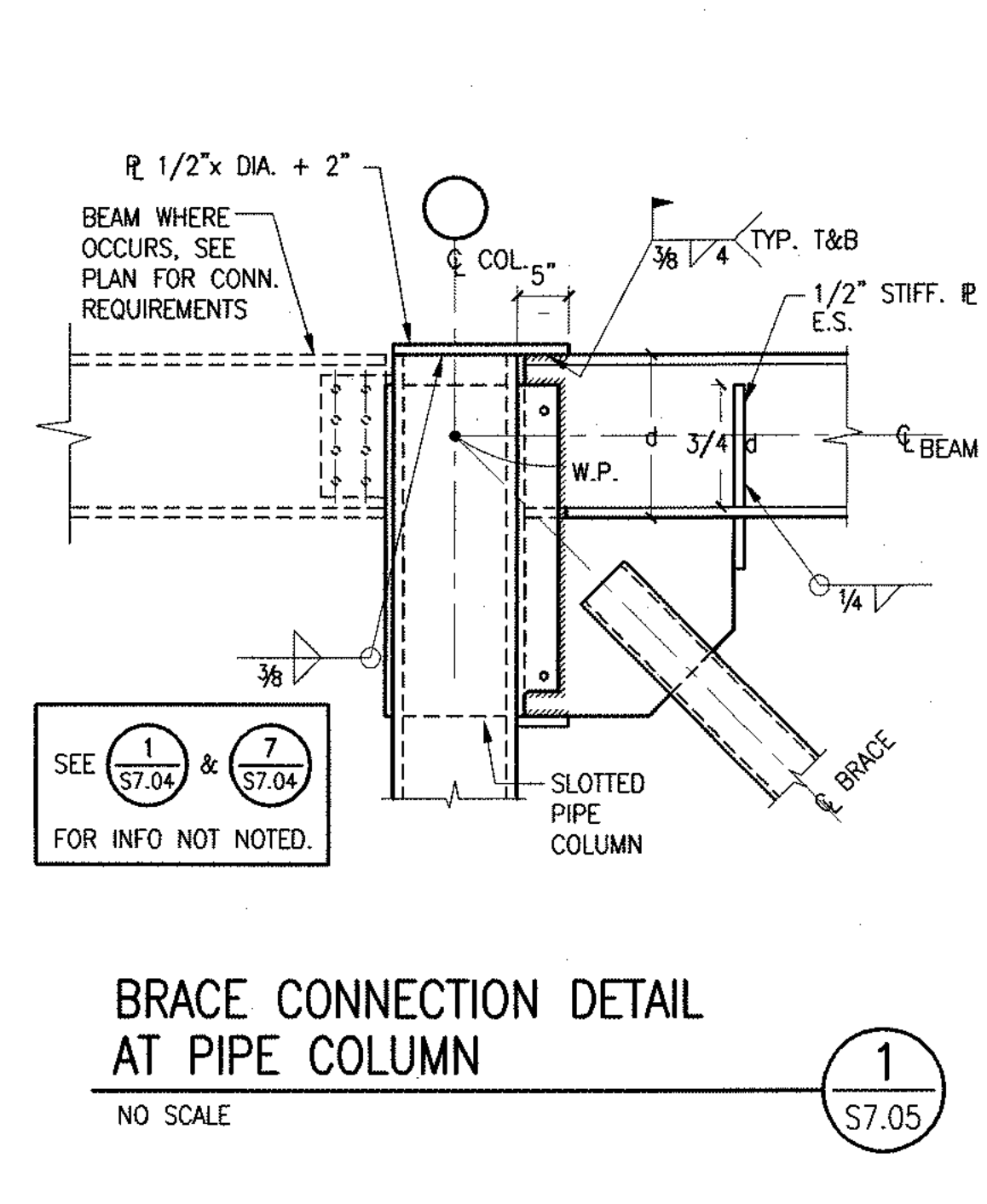
DETAIL 13
3/4"=1'-0" S7.05



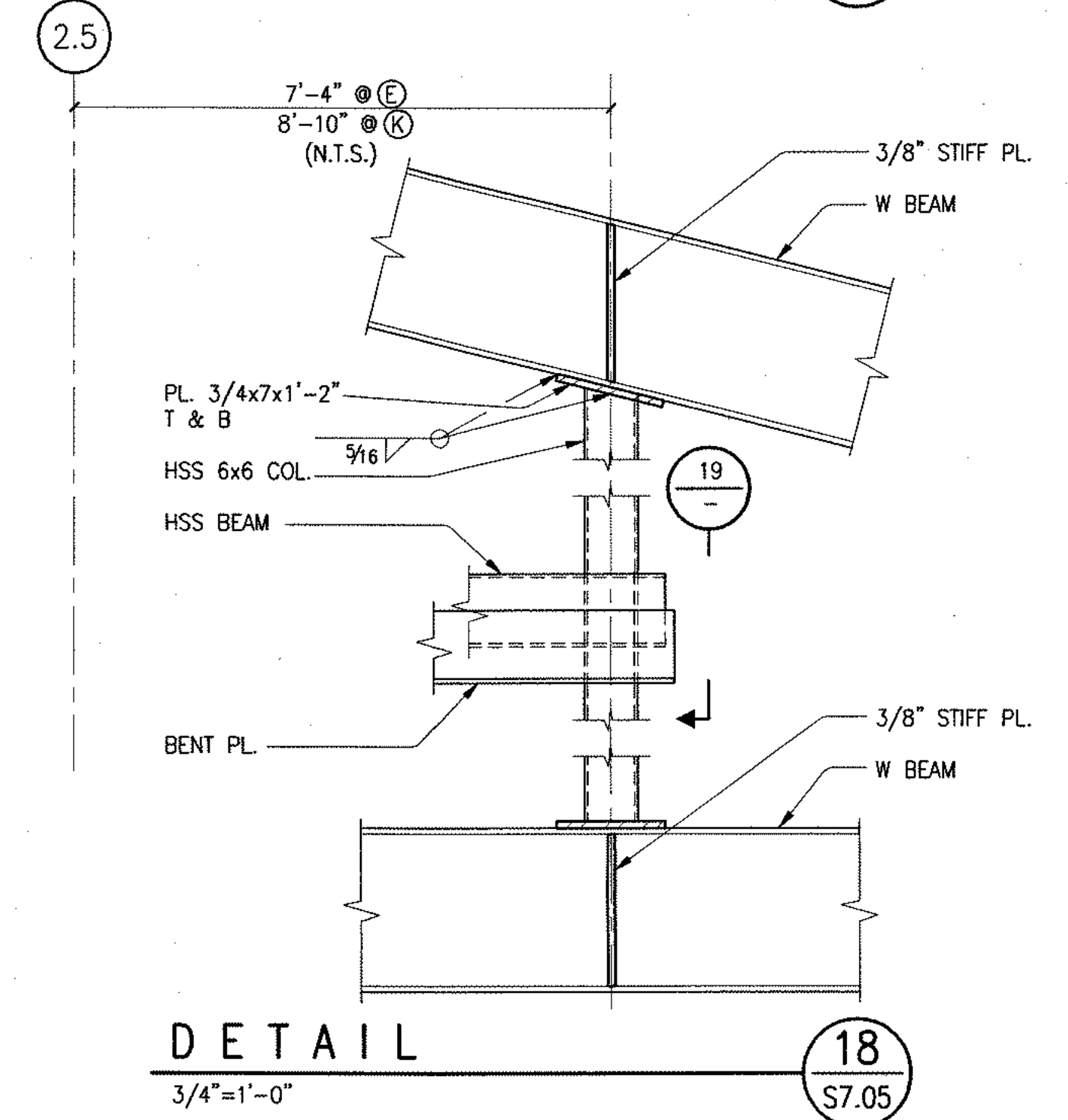
DETAIL 9
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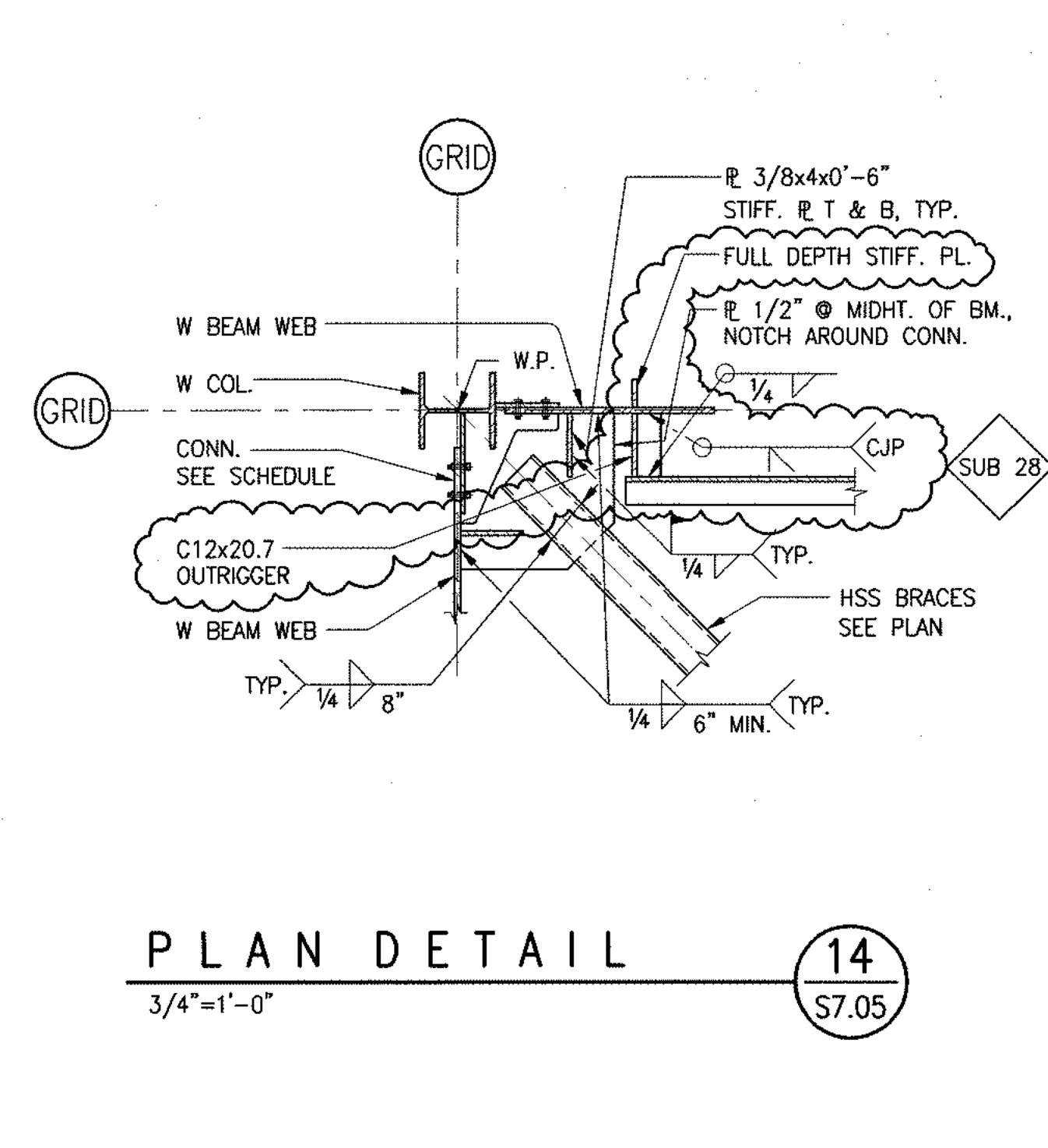
TYPICAL ELEVATOR RAIL POST DETAIL 5
NO SCALE S7.05



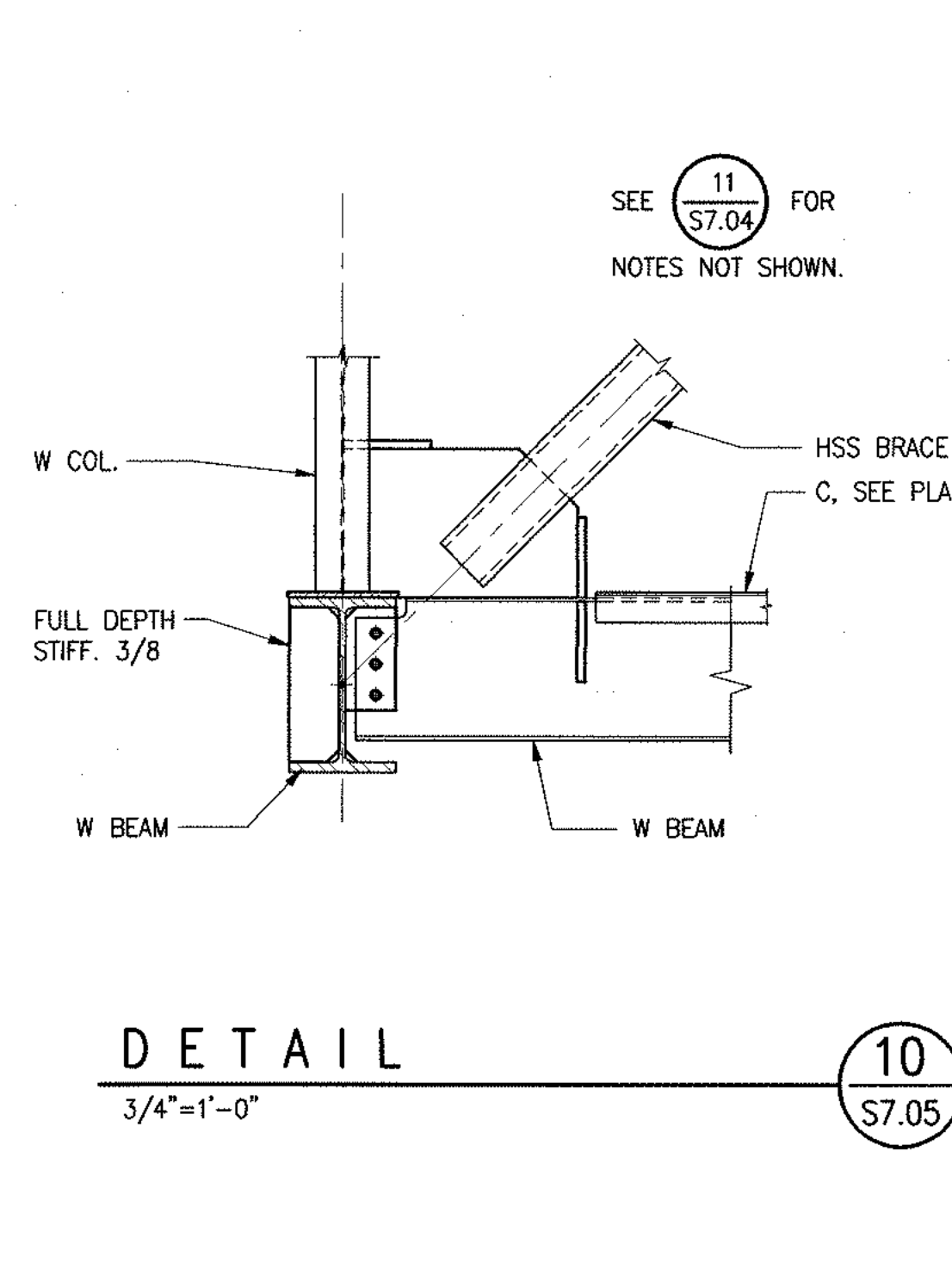
BRACE CONNECTION DETAIL AT PIPE COLUMN 1
NO SCALE S7.05



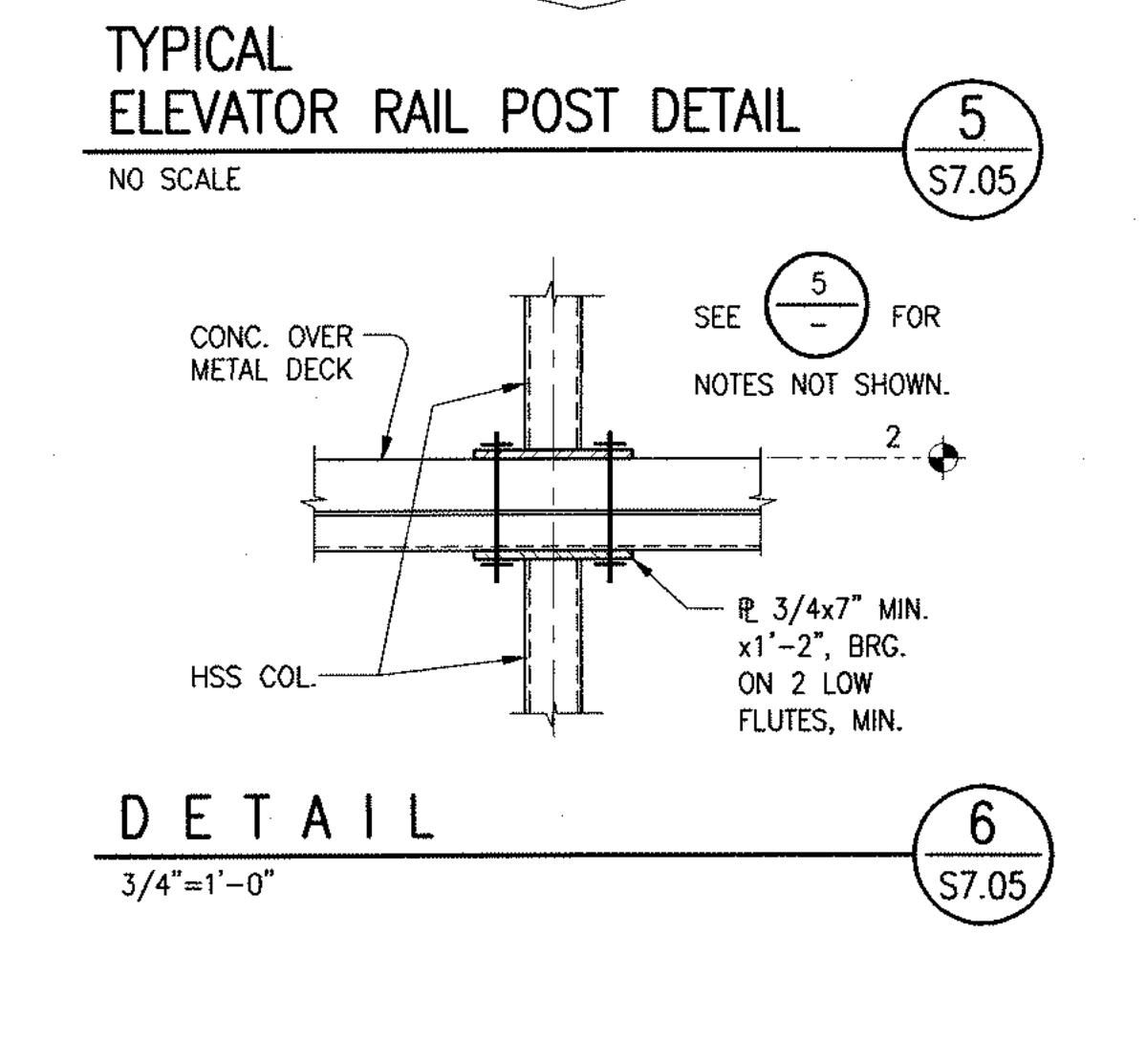
DETAIL 18
3/4"=1'-0" S7.05



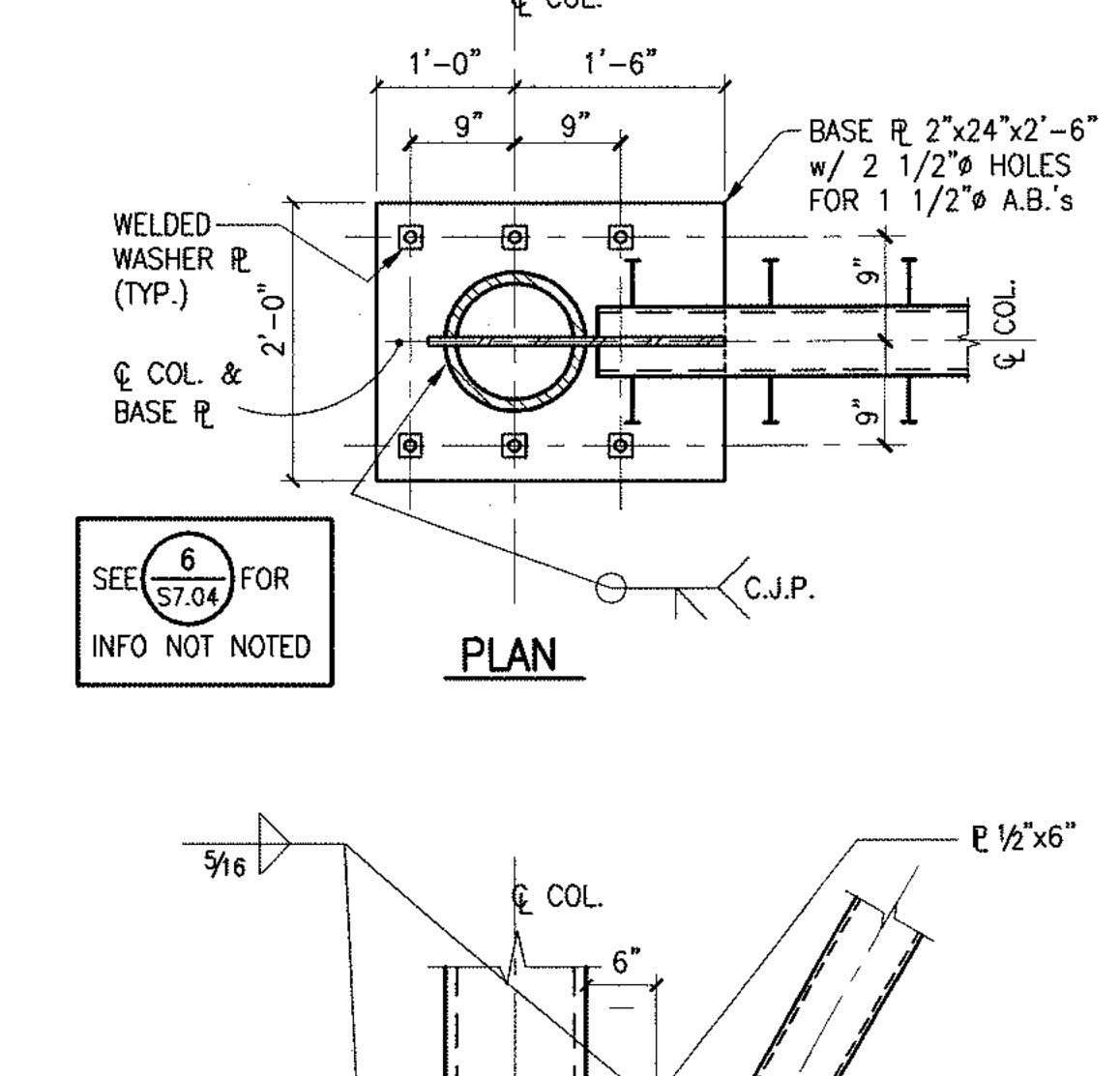
PLAN DETAIL 14
3/4"=1'-0" S7.05



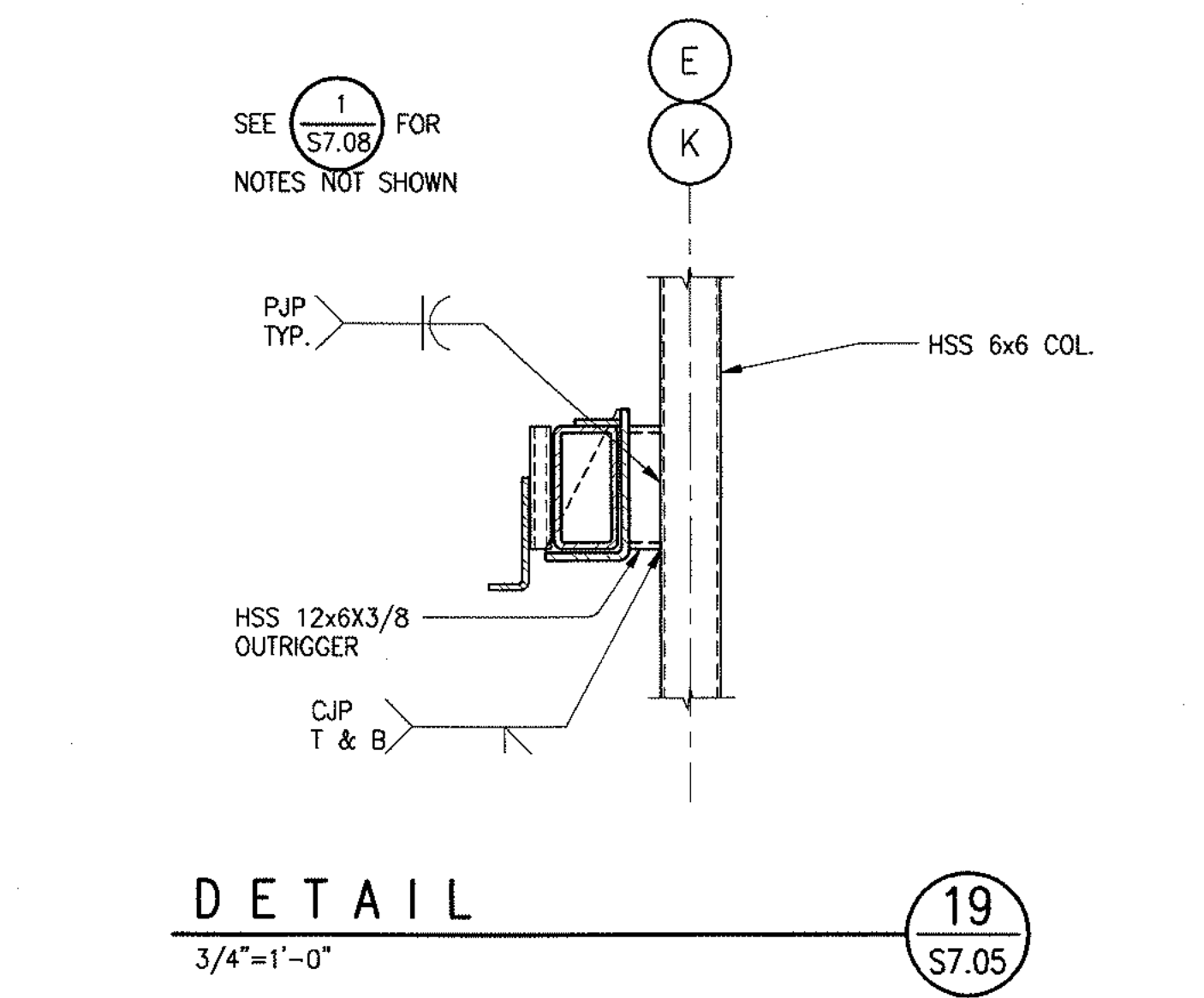
DETAIL 10
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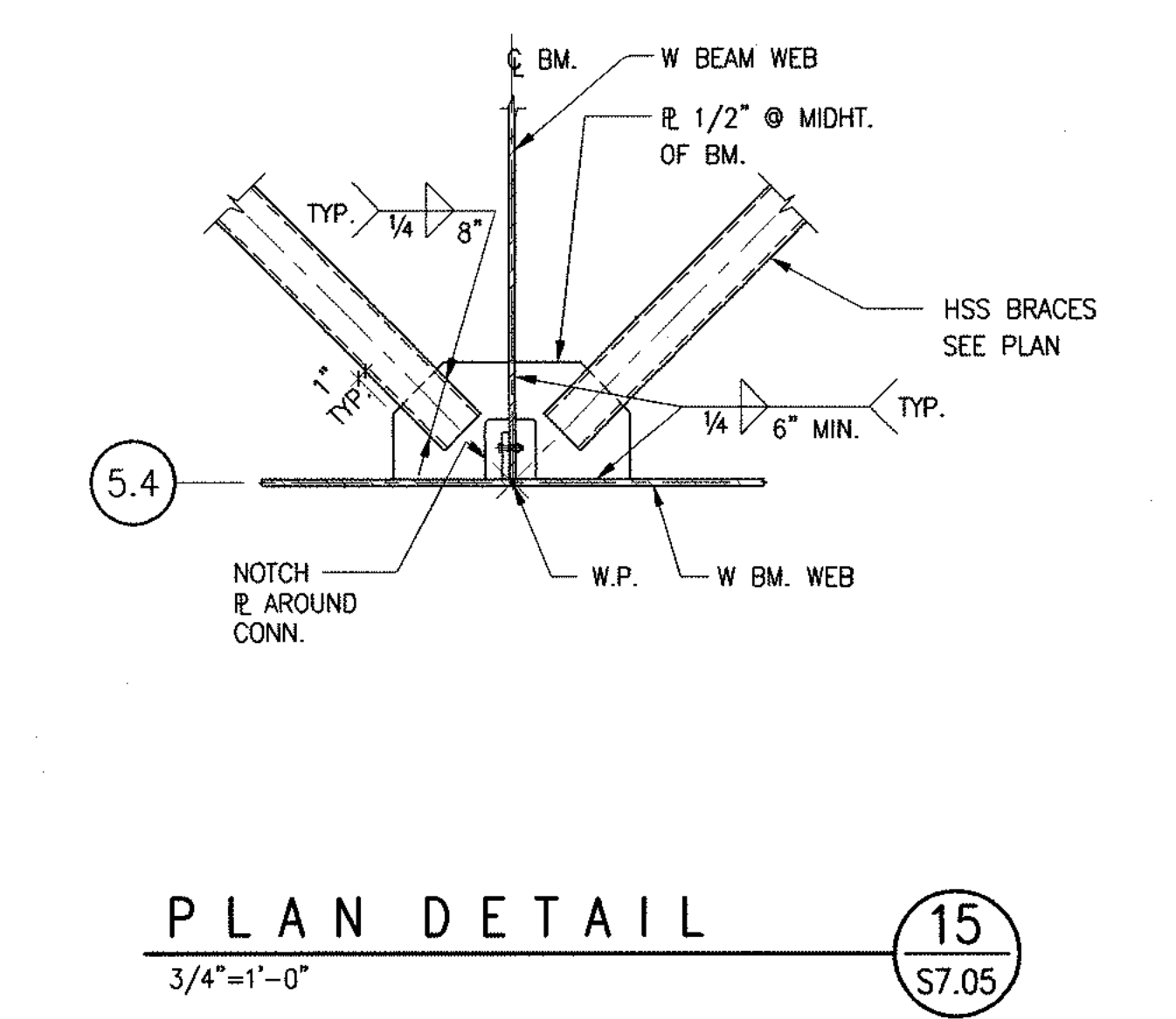
DETAIL 6
3/4"=1'-0" S7.05



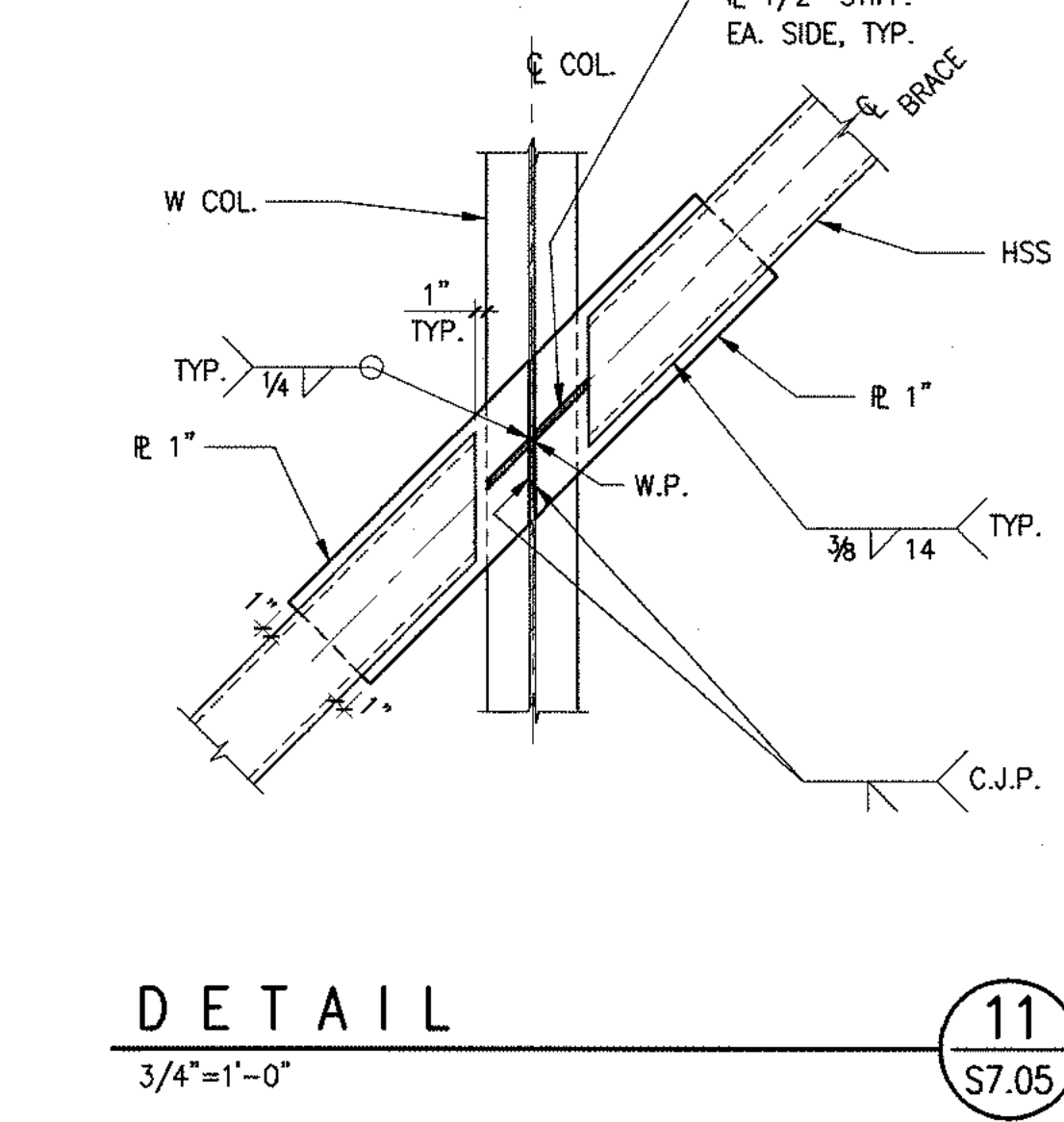
PLAN
SEE S7.04 FOR INFO NOT NOTED



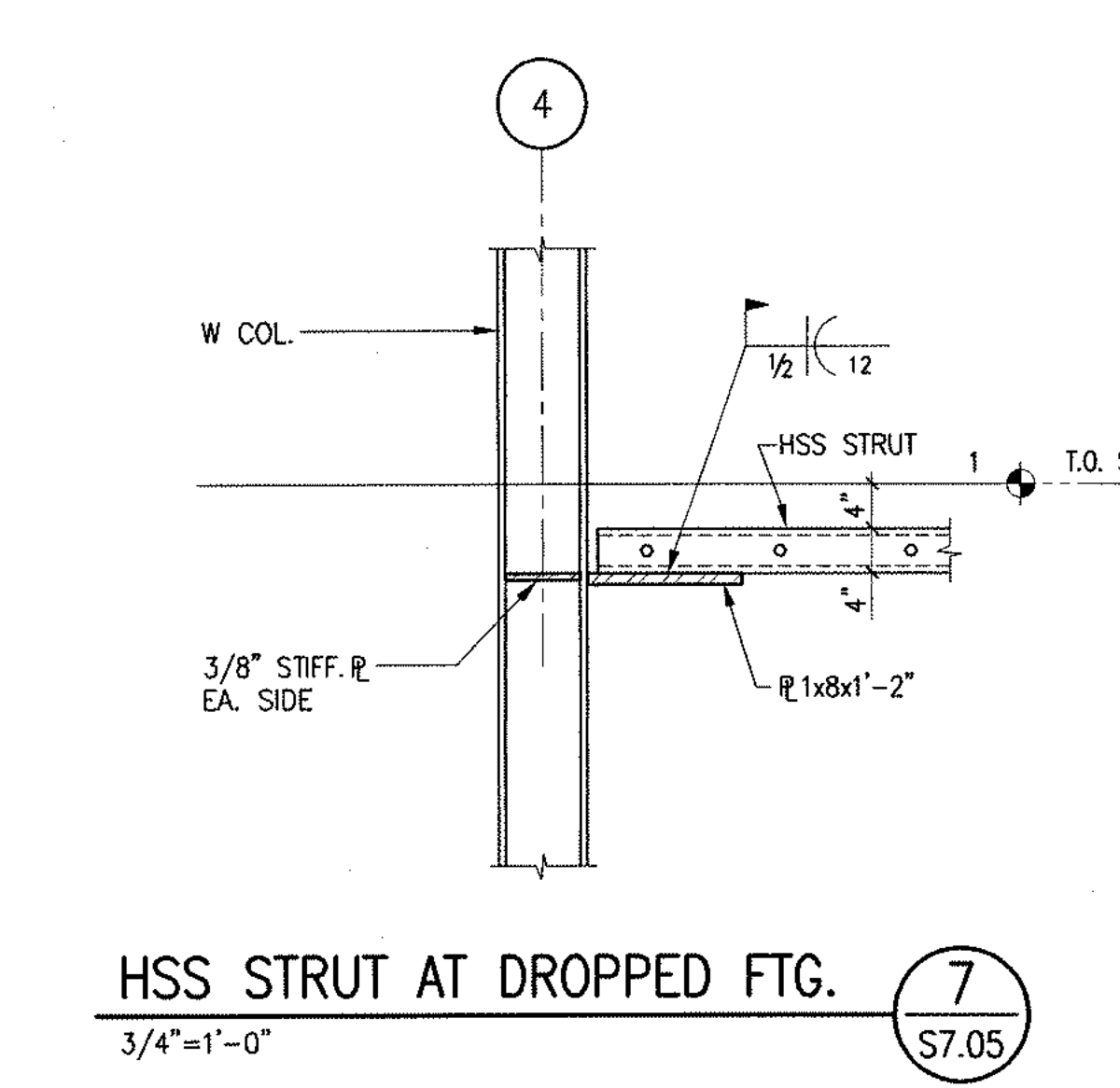
DETAIL 19
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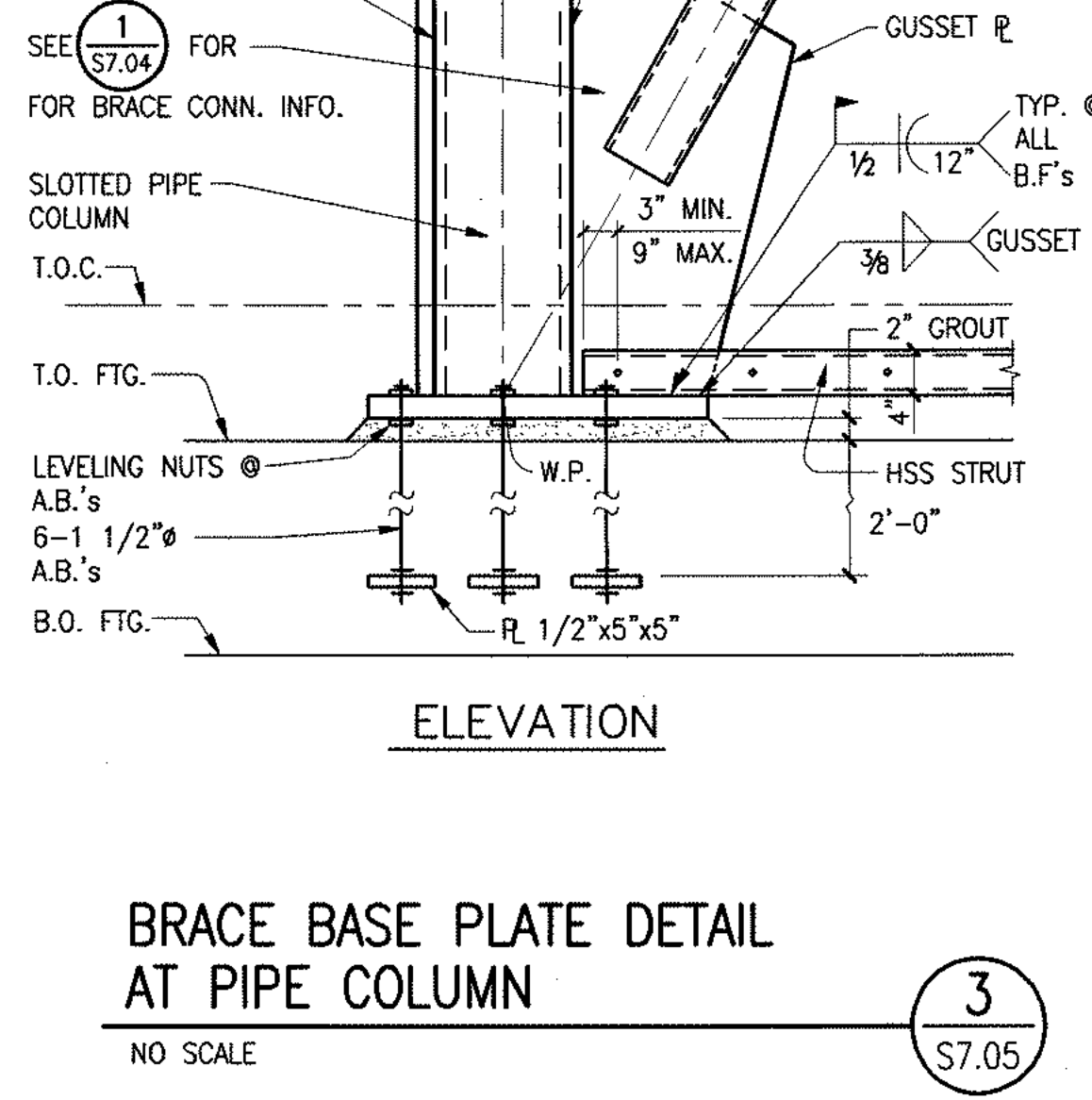
PLAN DETAIL 15
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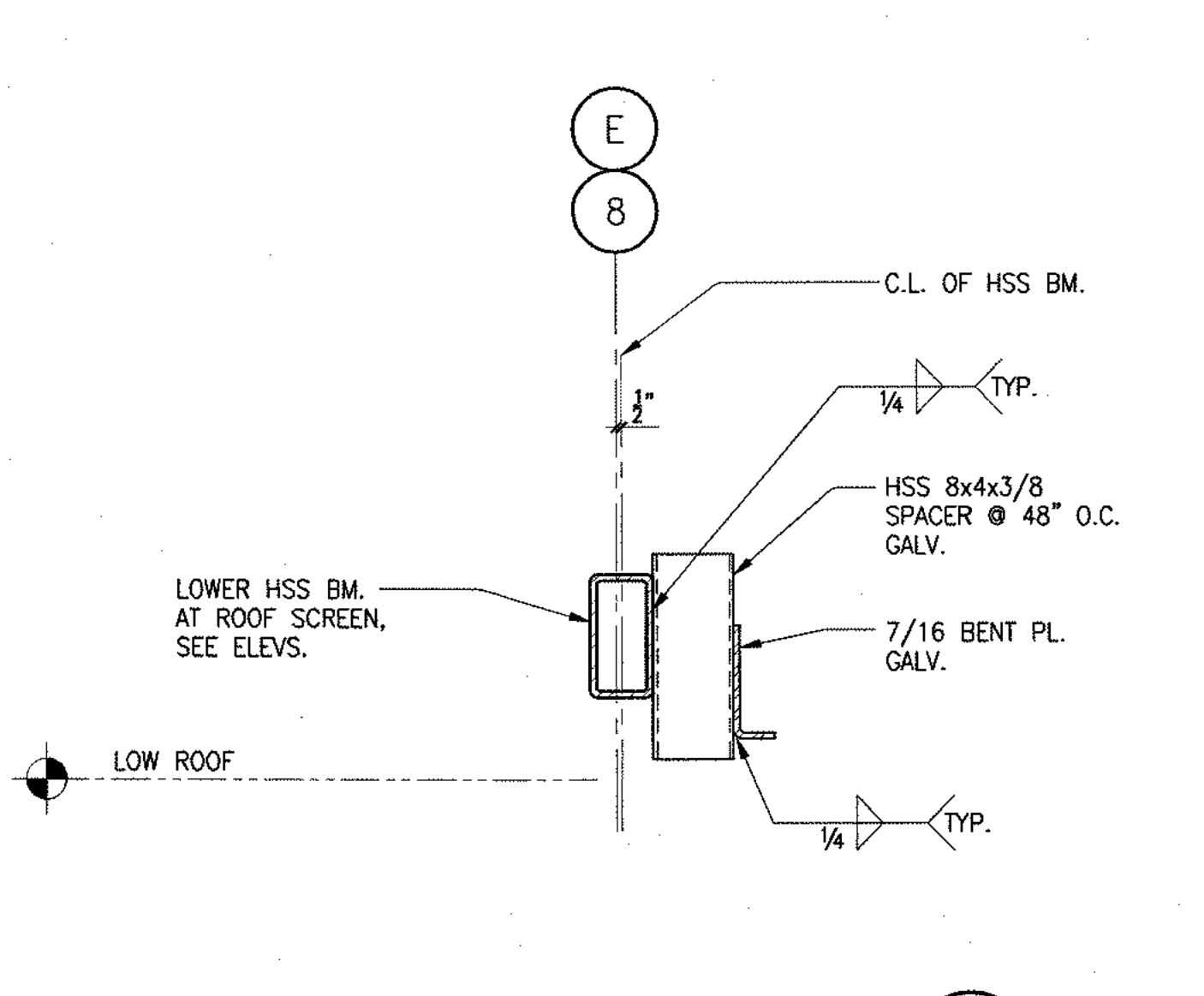
DETAIL 11
3/4"=1'-0" S7.05



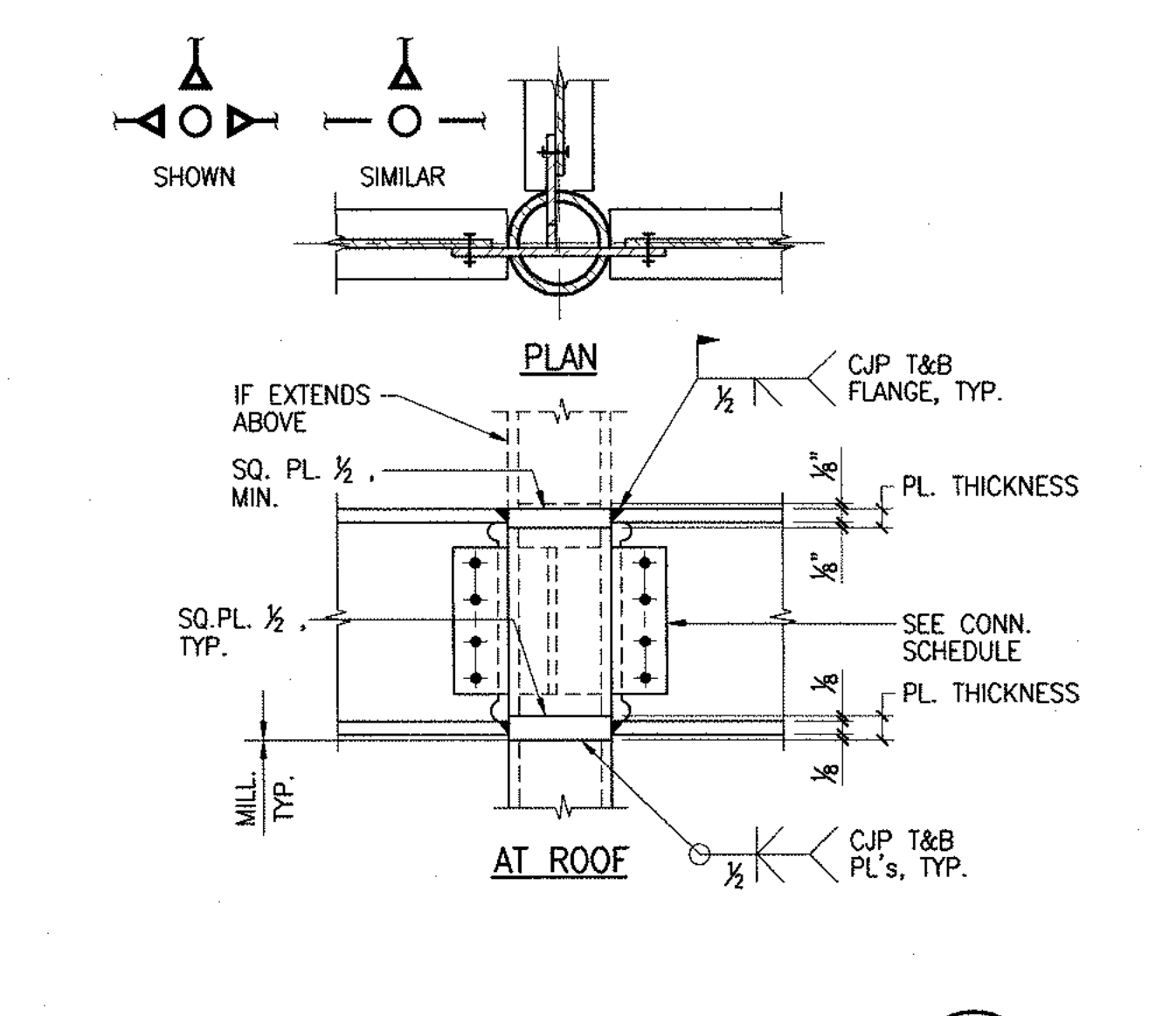
HSS STRUT AT DROPPED FTG. 7
3/4"=1'-0" S7.05



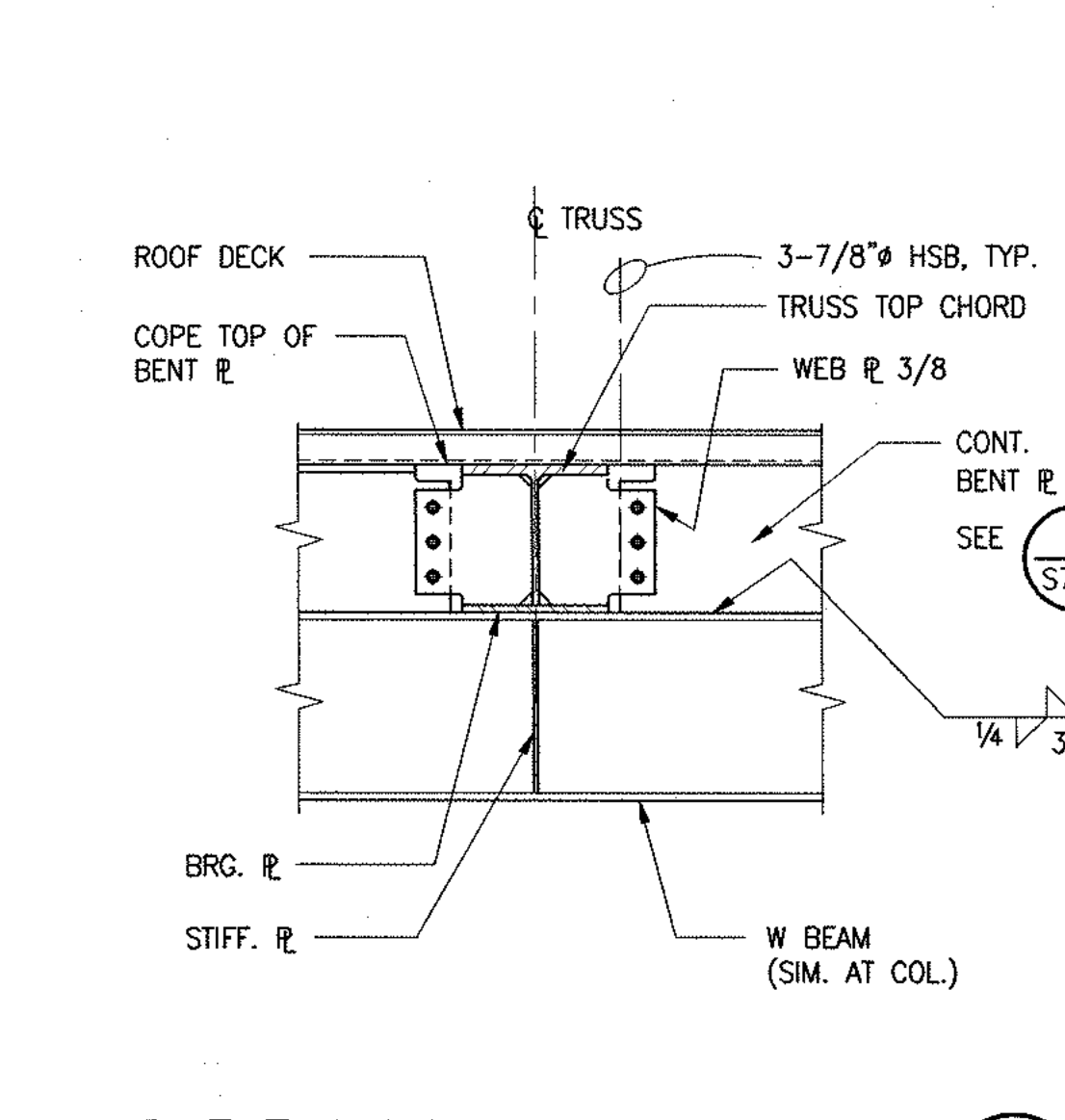
BRACE BASE PLATE DETAIL AT PIPE COLUMN 3
NO SCALE S7.05



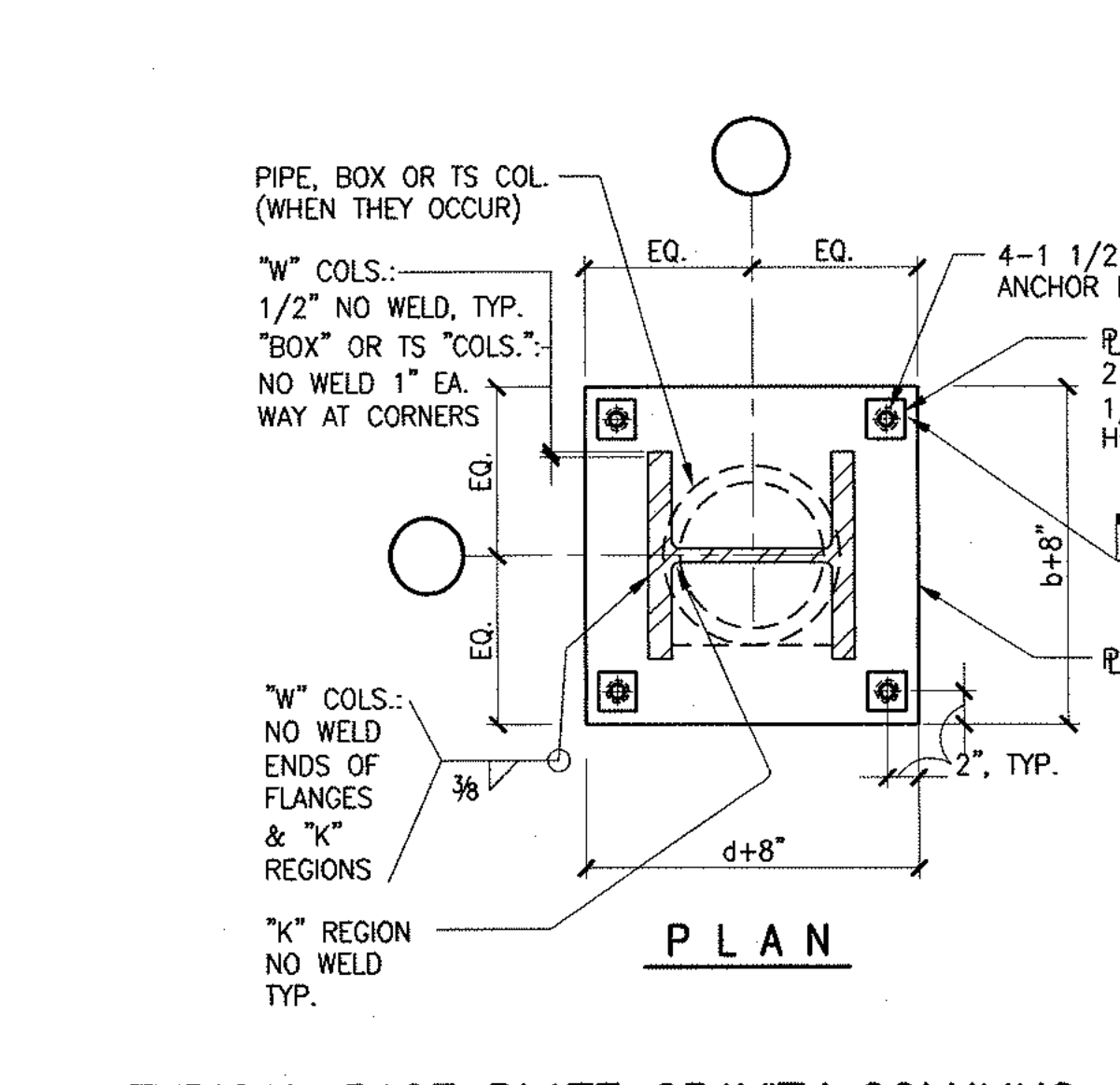
BRICK PARAPET WALL BASE 20
3/4"=1'-0" S7.05



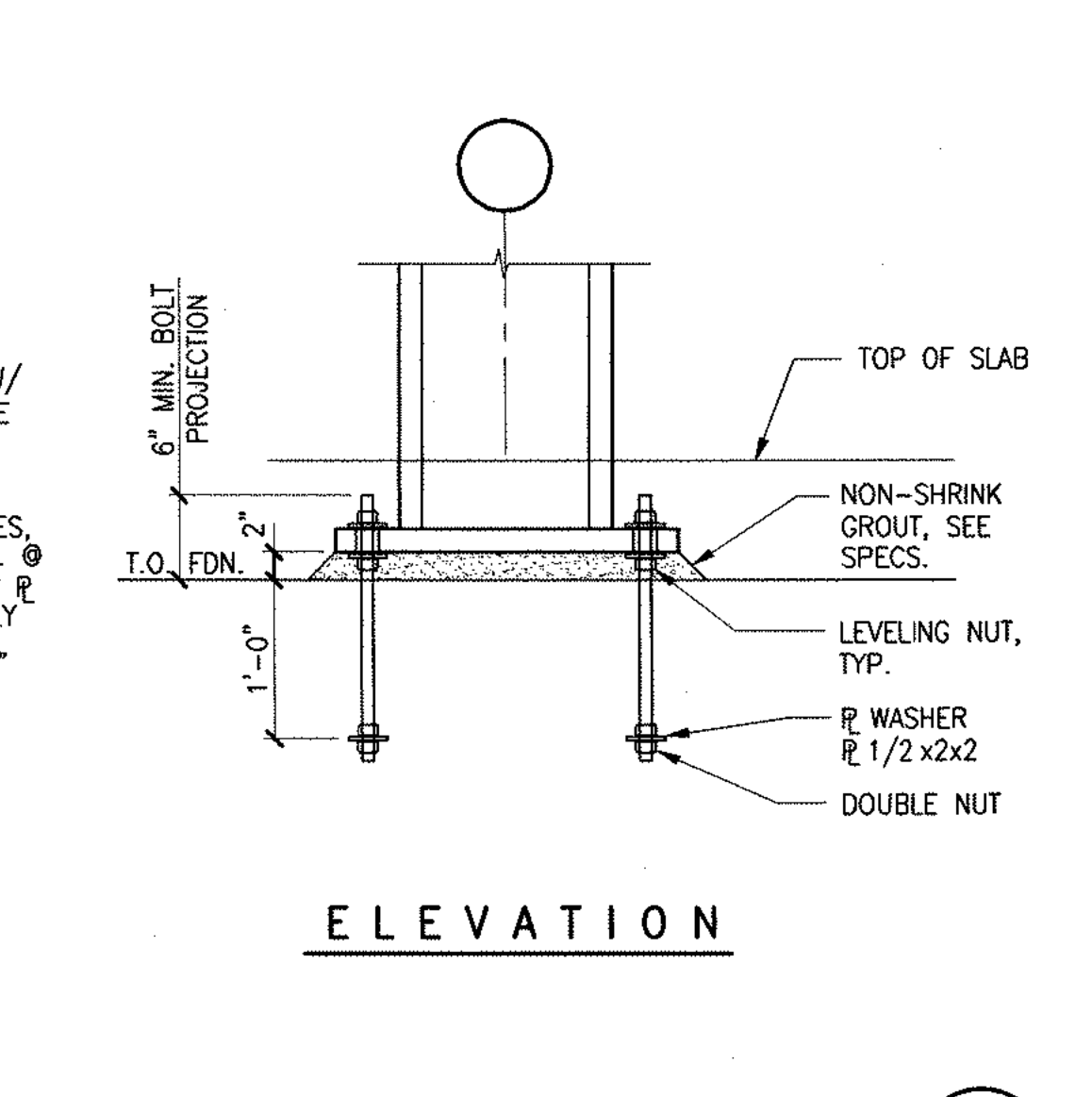
W BEAM TO PIPE COLUMN MOMENT CONNECTION 16
3/4"=1'-0" S7.05



DETAIL 12
3/4"=1'-0" S7.05



TYPICAL BASE PLATE GRAVITY COLUMNS
NO SCALE S7.05



ELEVATION

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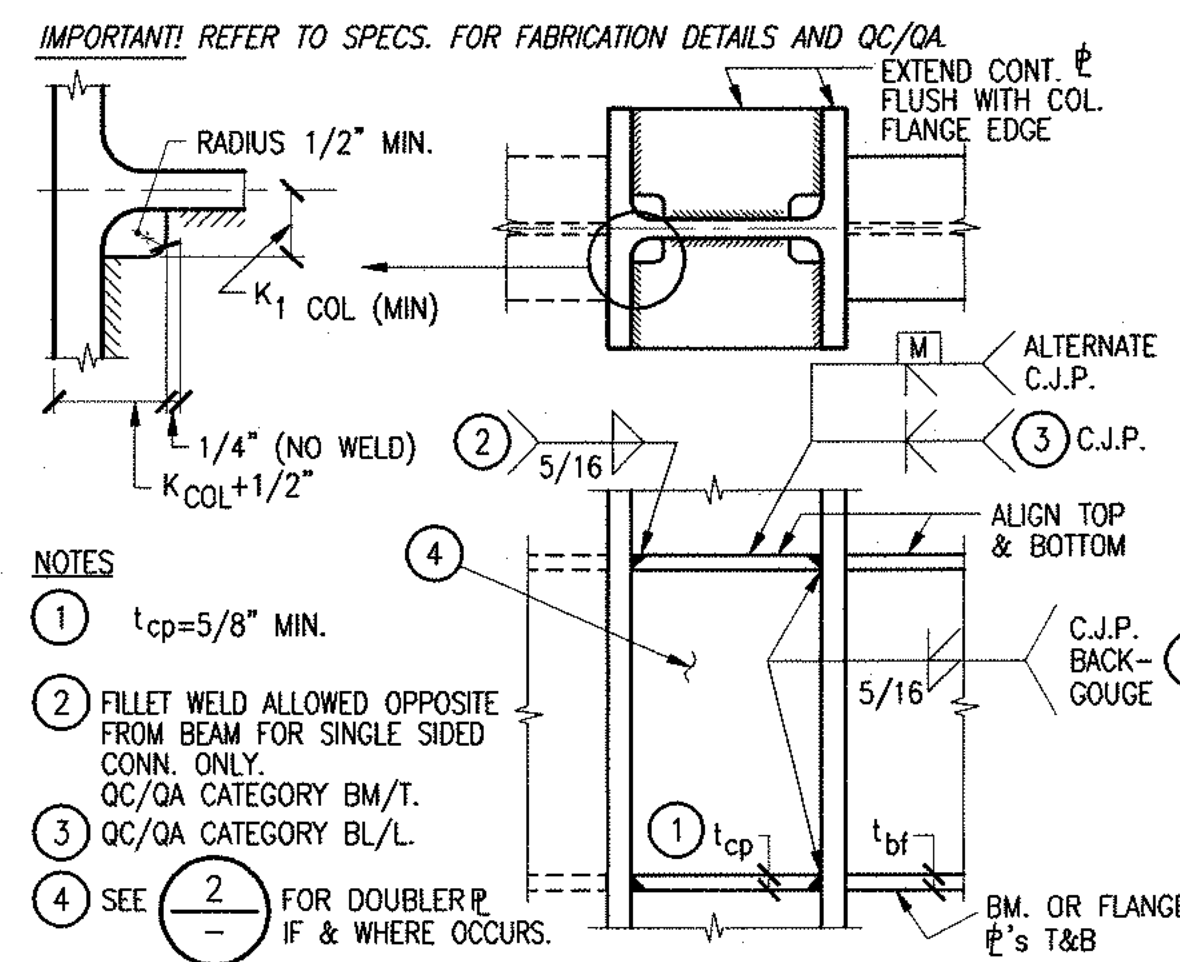


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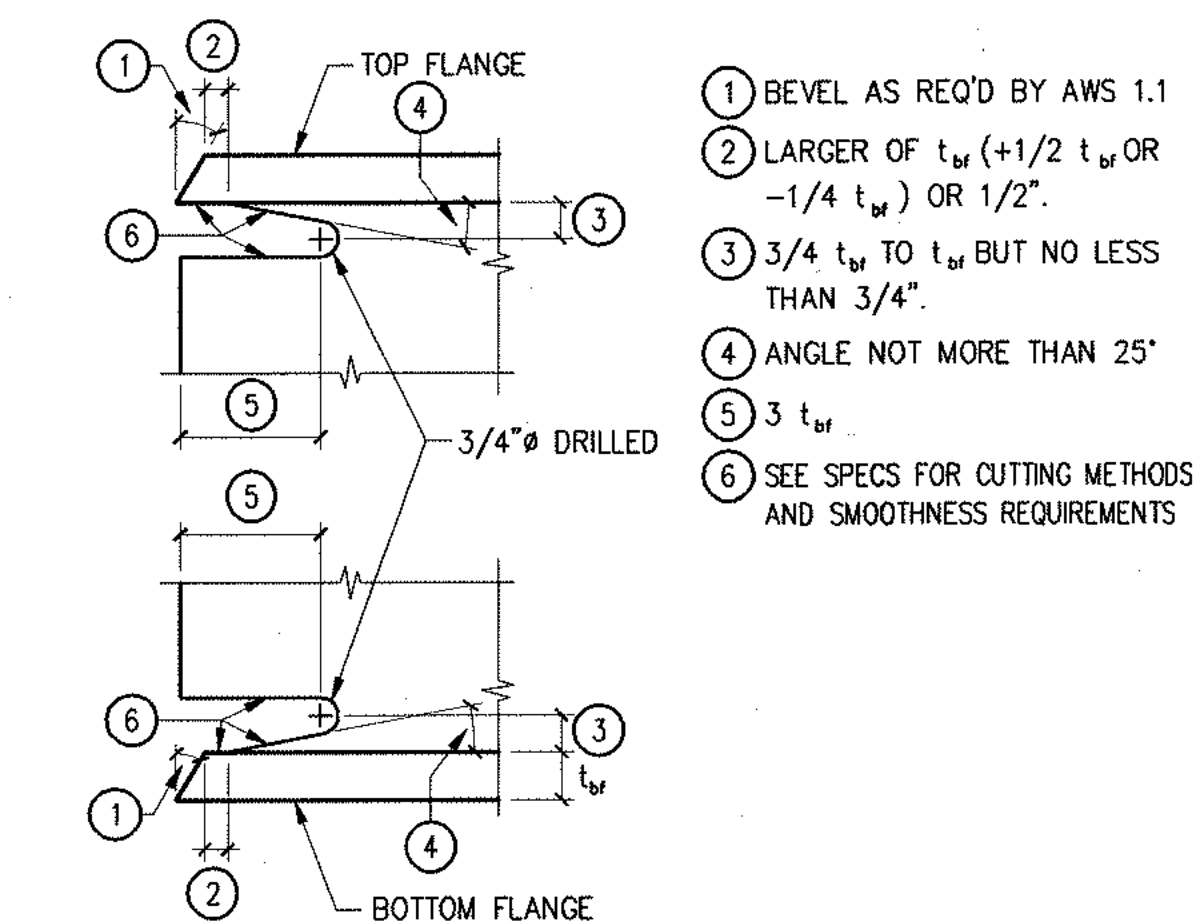
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drawn by KRL/opez project number 1035
sheet number

\$7.05

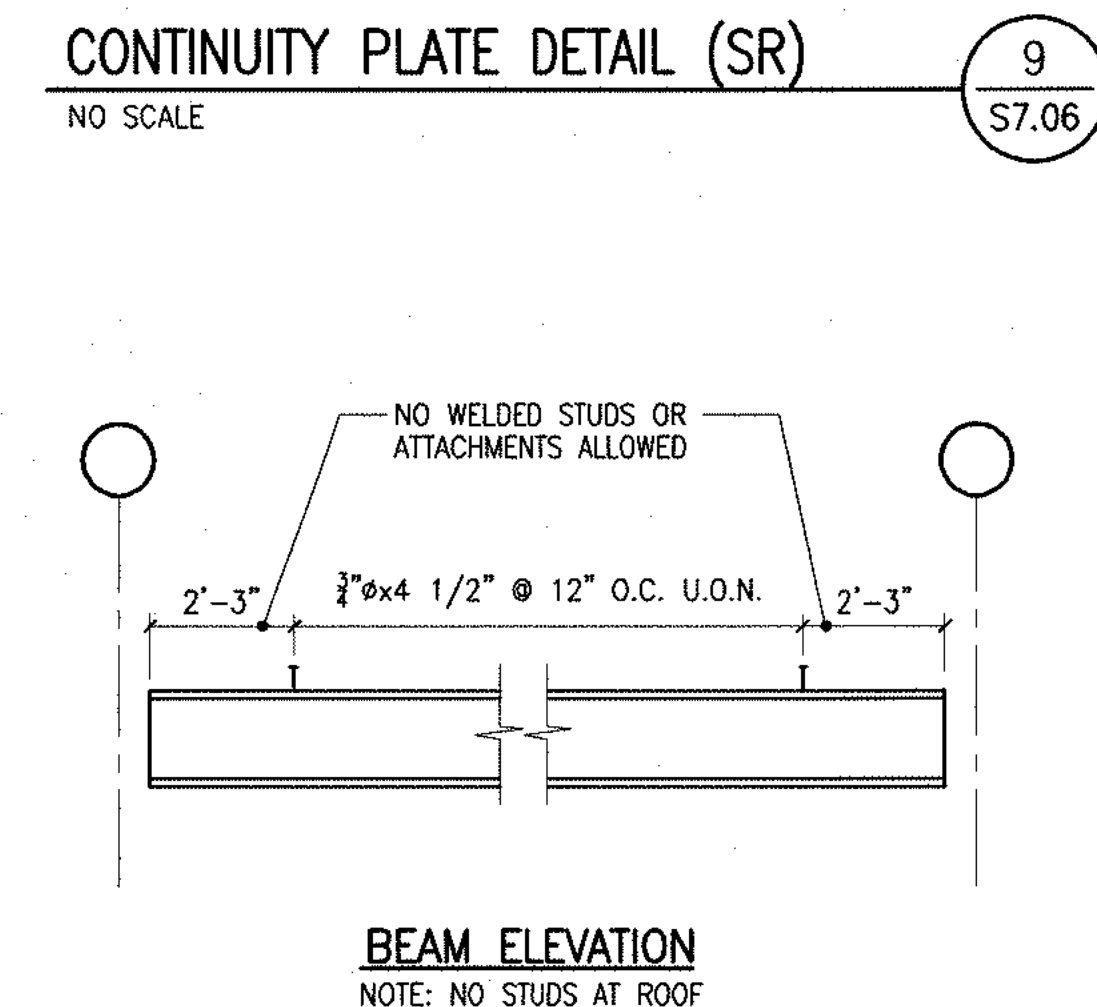


CONTINUITY PLATE DETAIL (SR) 9
S7.06
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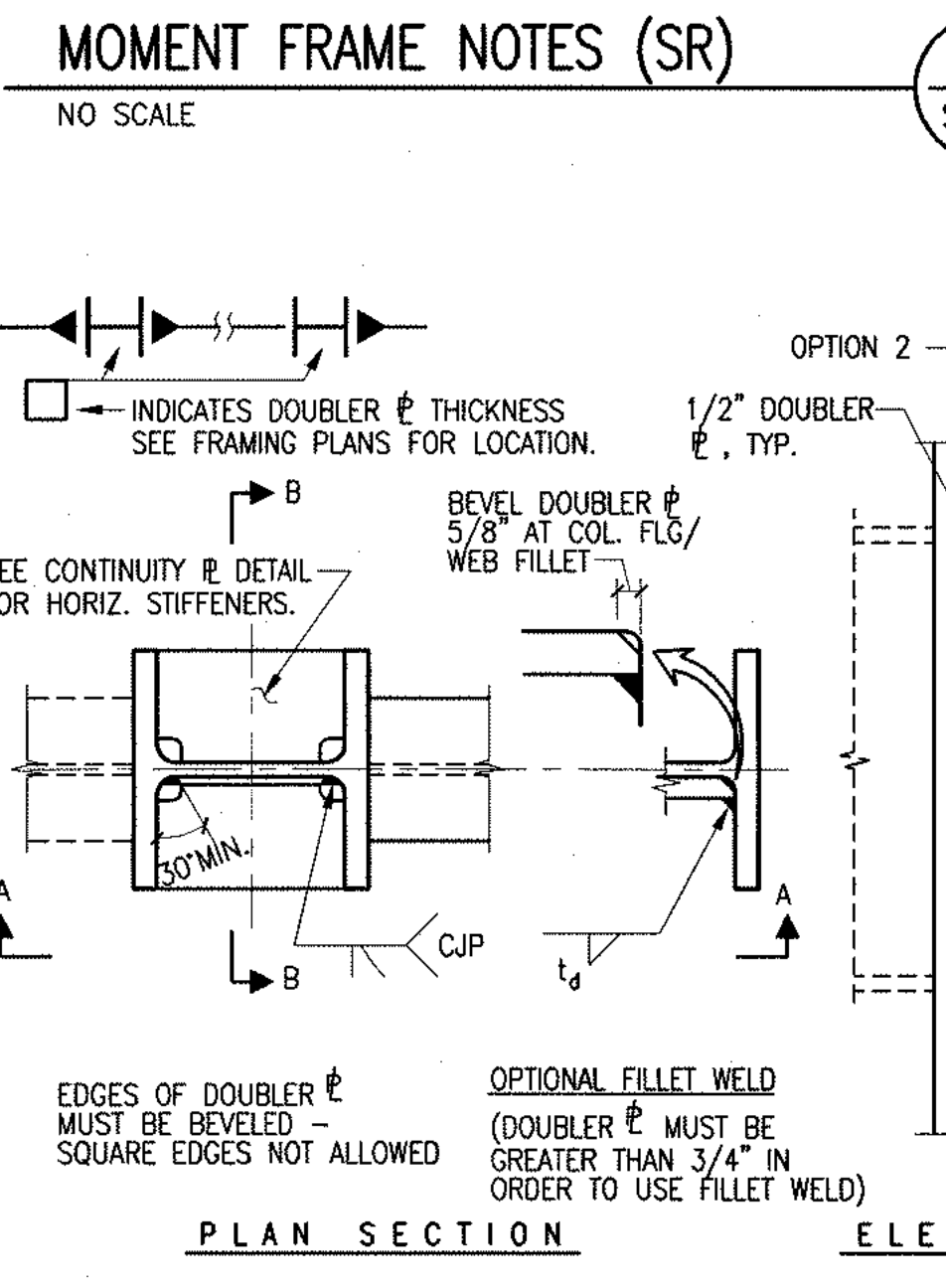
- REFER TO SPECIFICATIONS FOR QUALITY CONTROL AND QUALITY ASSURANCE, ACCEPTABLE FILLER METALS AND WELDING PROCESS AND ACCESSORIES.
- PROVIDE WELDED STUDS ON MOMENT FRAME BEAMS PER DETAIL 10.
- DO NOT WELD CONTINUITY PLATES WITHIN THE "K" ZONE OF THE COLUMN, SEE DETAIL 9.



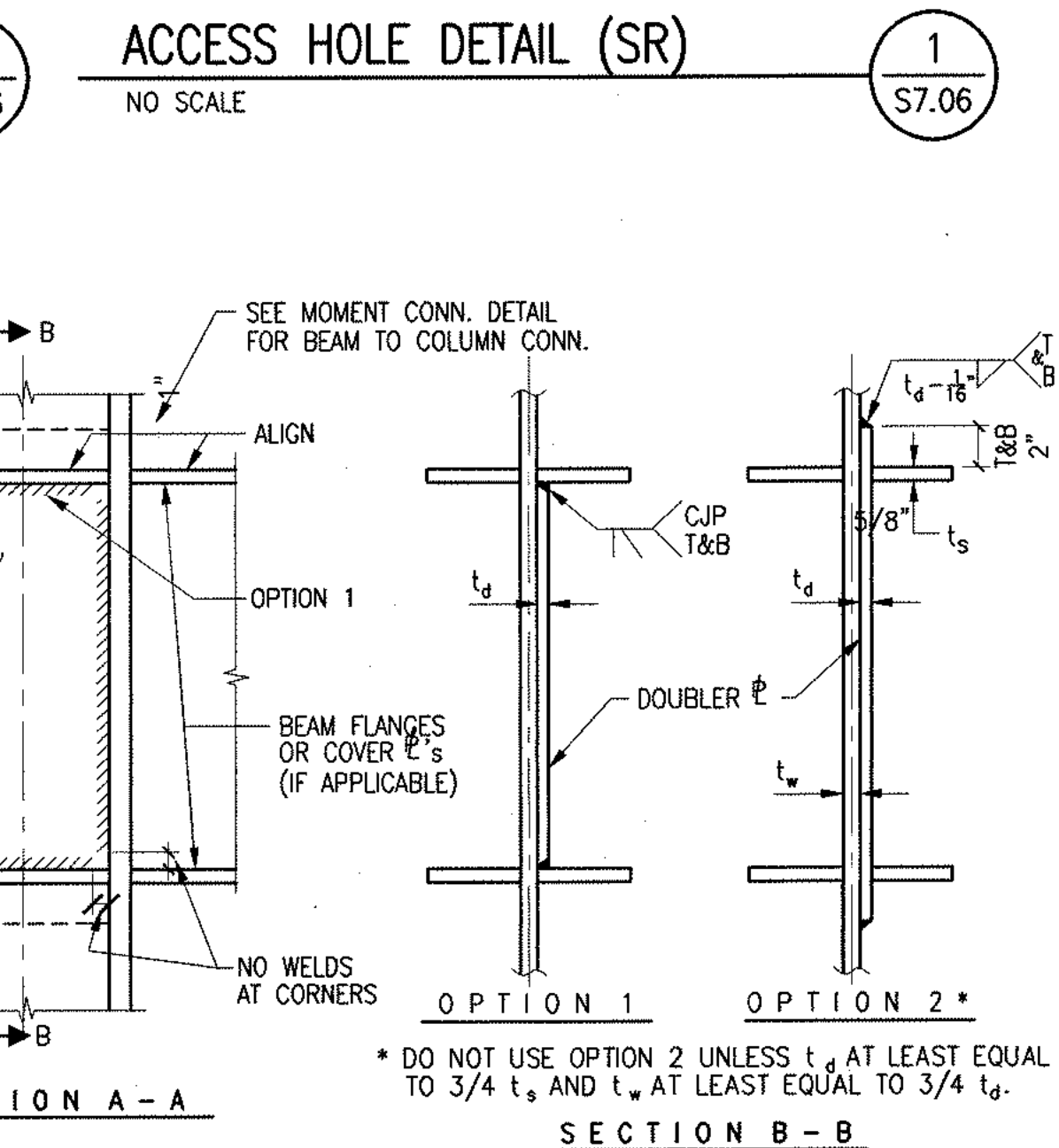
ACCESS HOLE DETAIL (SR) 1
S7.06
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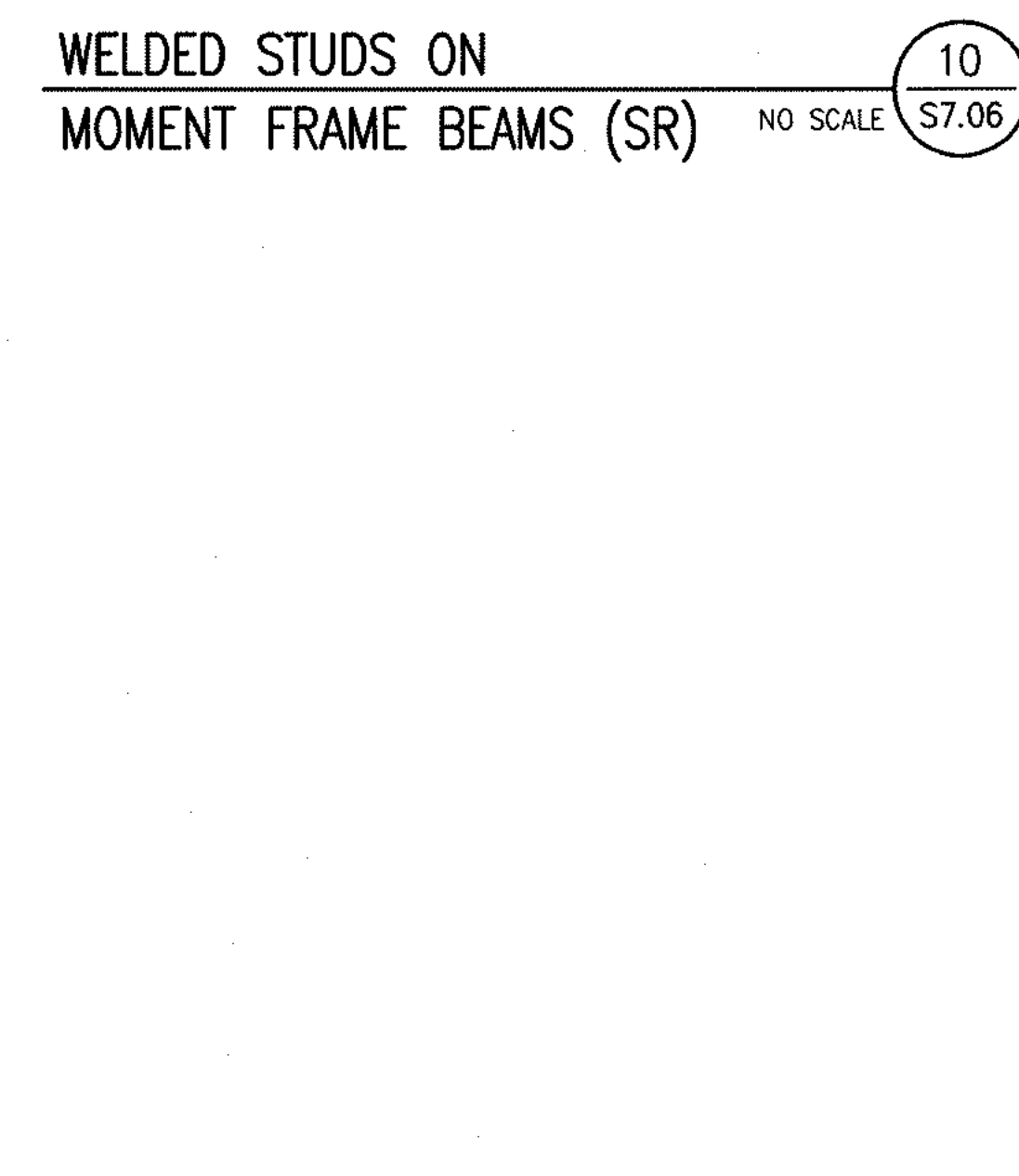
BEAM ELEVATION
NOTE: NO STUDS AT ROOF



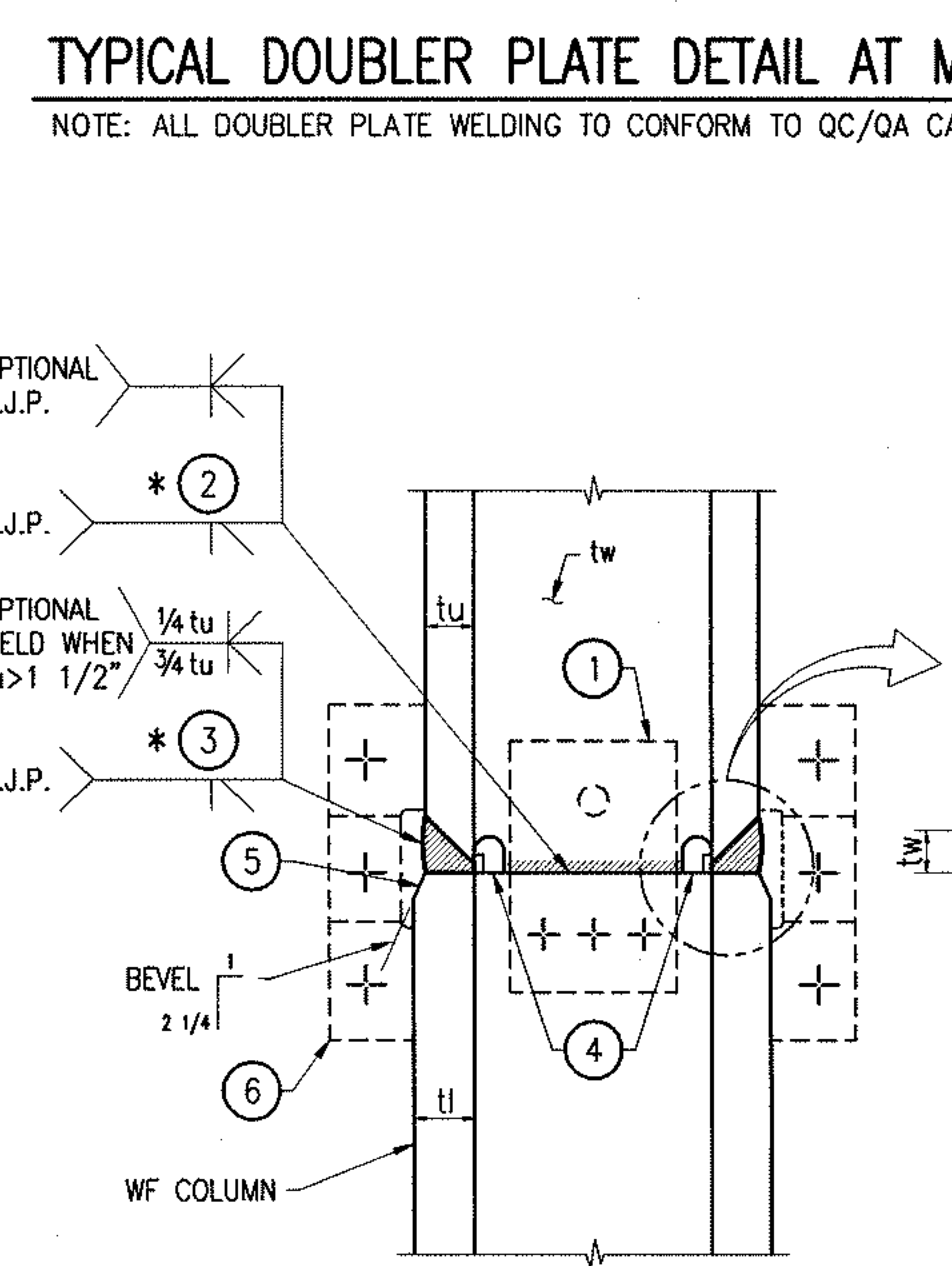
TYPICAL DOUBLER PLATE DETAIL AT MOMENT FRAME COLUMNS (SR) 2
S7.06
NO SCALE



WELDED STUDS ON MOMENT FRAME BEAMS (SR) 10
S7.06
NO SCALE

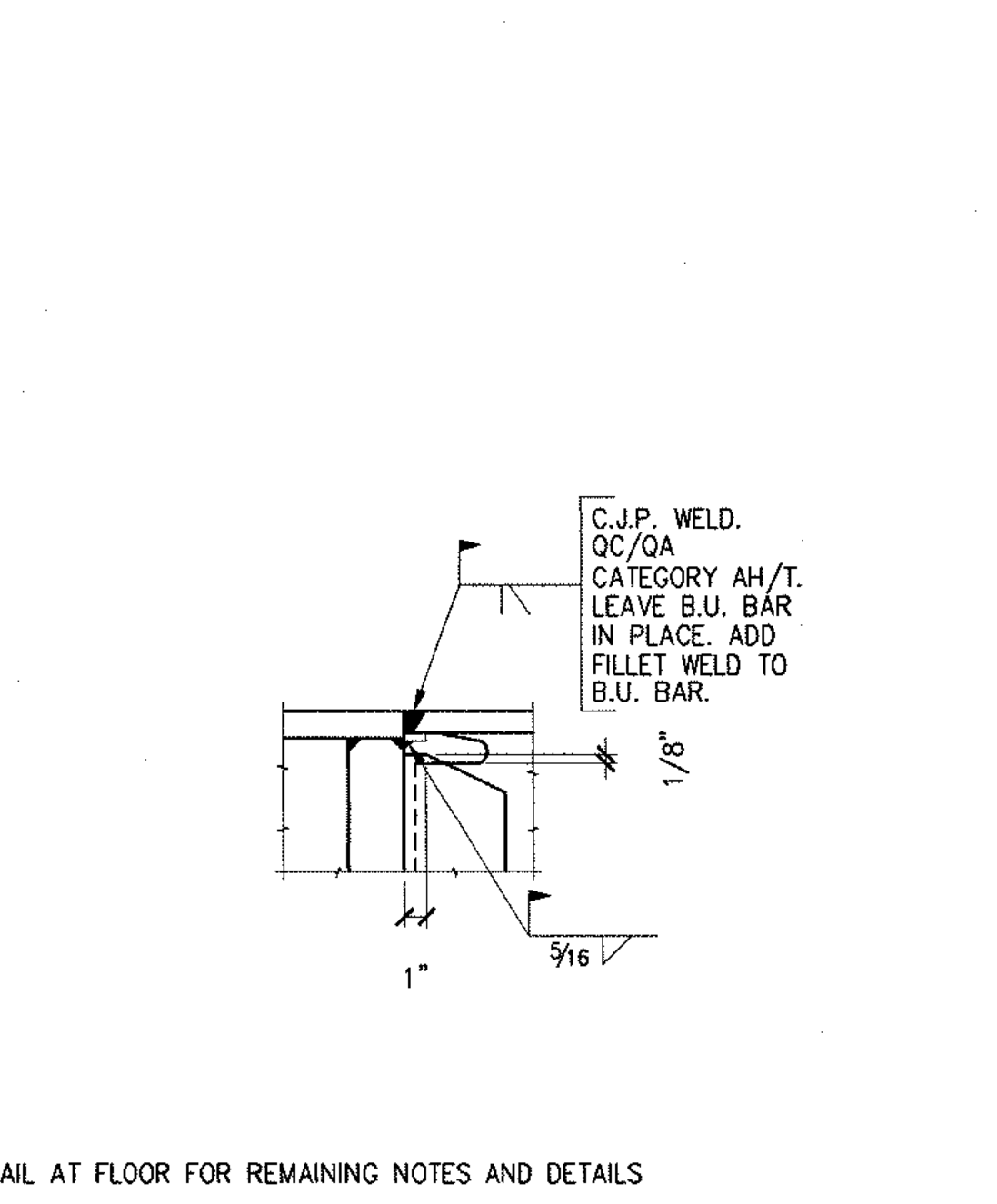


WELDED UNREINFORCED FLANGE - WELDED WEB (WUF-W) CONN. AT TOP OF COL. (SR) 12
S7.06
NO SCALE

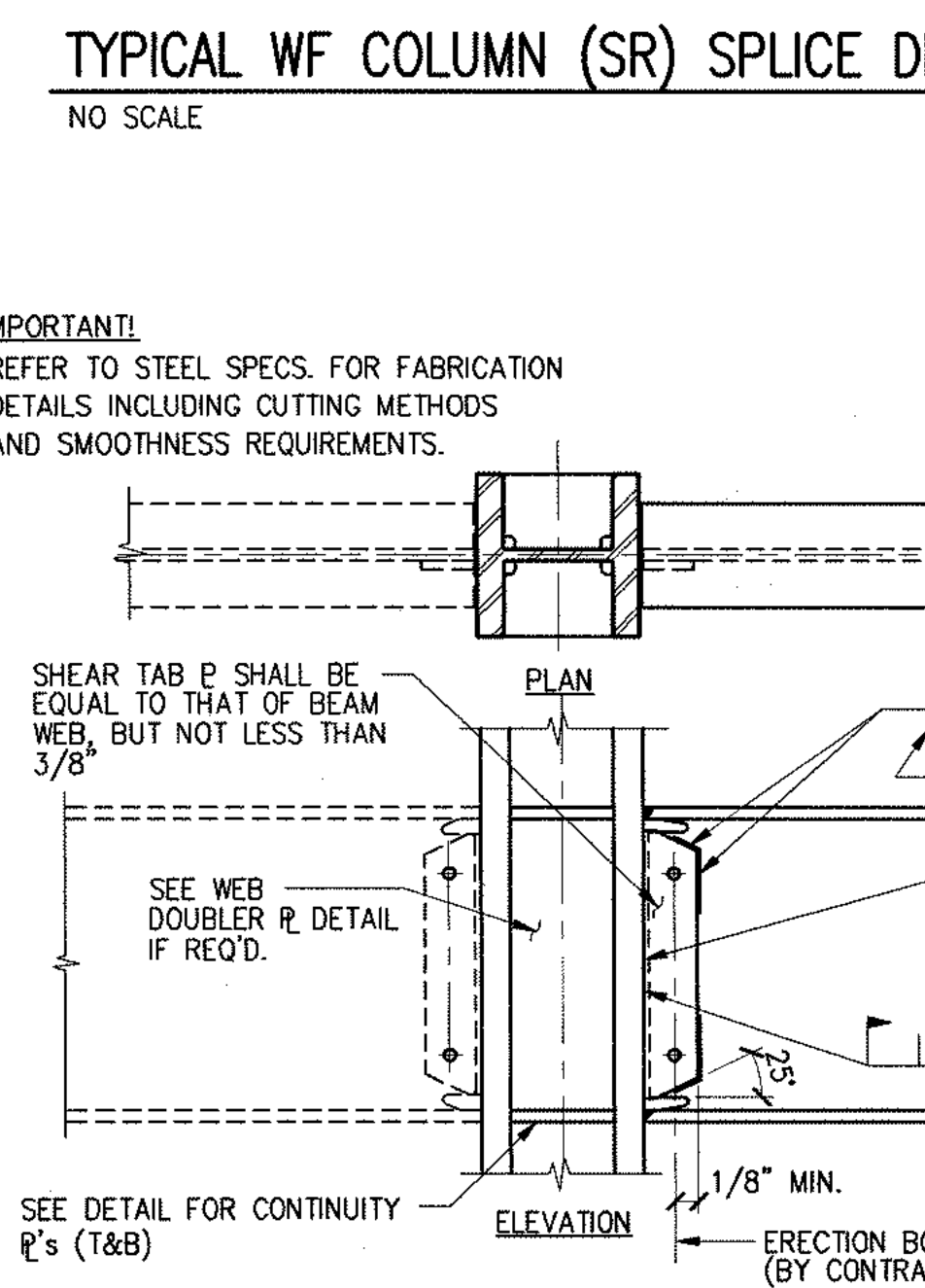


TYPICAL WF COLUMN (SR) SPLICE DETAIL 3
S7.06
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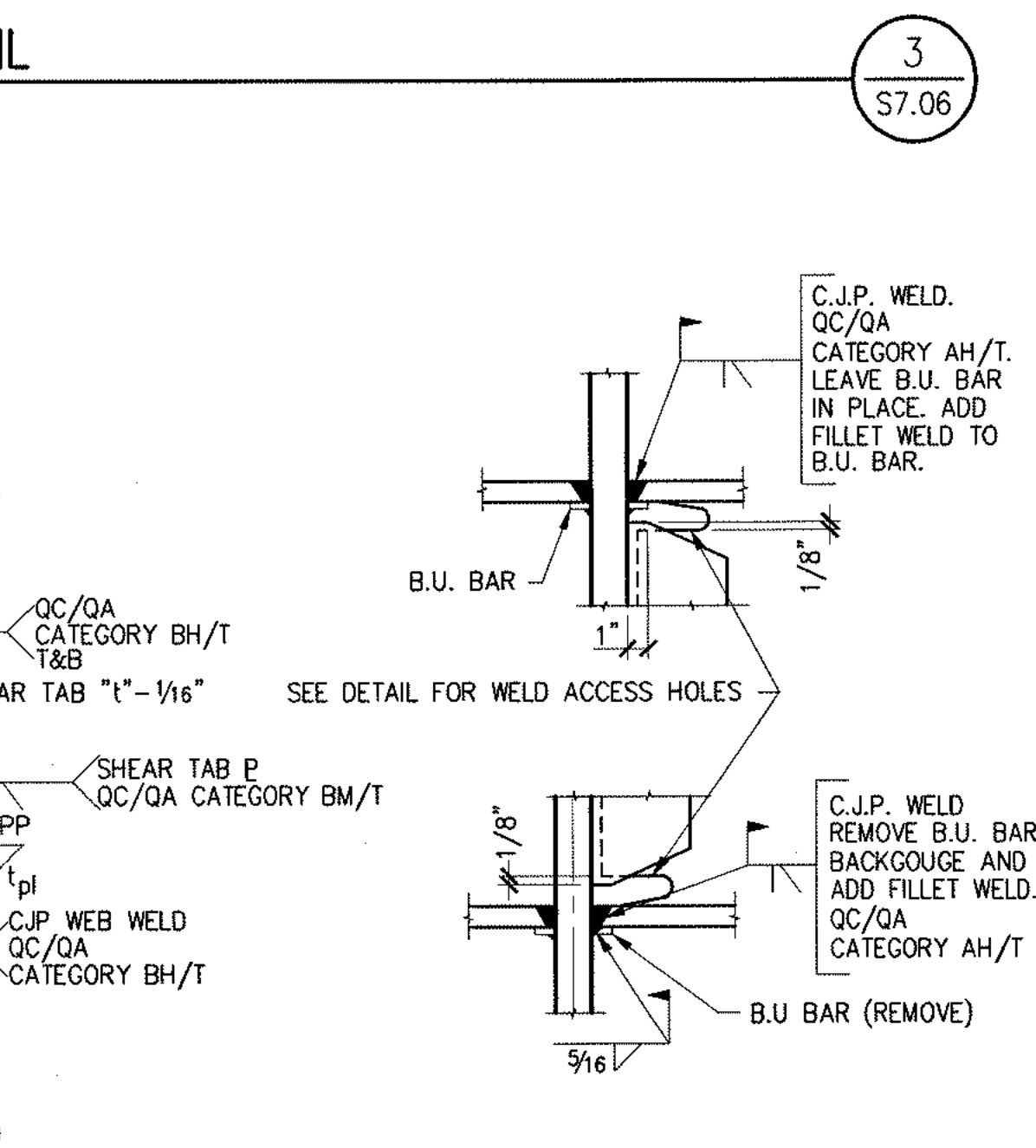
- KEY NOTES:**
- OPTIONAL LIFTING PLATE WITH ERECTION BOLTS (DO NOT WELD TO COLUMN). PLATE (1/2" MINIMUM) TO BE DESIGNED BY FABRICATOR. REMOVE PLATE TO WELD WEB.
 - C.J.P. WEB WELD WITH RUN-OFF TABS. REMOVE TABS AFTER WELDING. WELDING TO CONFORM TO QC/QA CATEGORY BM/L. SEE SPECS.
 - C.J.P. FLANGE WELDS. USE RUN-OFF TABS. REMOVE TABS TO WITHIN 1/4 INCH OF FLANGES AFTER WELDING. BACK-UP BARS CAN REMAIN. DOUBLE BEVEL C.J.P. WELD (WITHOUT BU BARS) OPTIONAL. WELDING TO CONFORM TO QC/QA CATEGORY BM/T (SEE SPECS).
 - WELD ACCESS HOLES. DRILL HOLE, FLAME CUT TO WITHIN 1/4 INCH, THEN GRIND SMOOTH. PREHEAT TO 150 DEGREES F BEFORE DRILLING AND CUTTING.
 - BEVEL FLANGES OF LOWER COLUMN WHEN IT IS MORE THAN 1/8 INCH THICKER THAN t_w.
 - ERECTION PLATES DESIGNED BY FABRICATOR. REMOVE AFTER WELDING IS COMPLETED. GRIND CONTACT AREA FLUSH & SMOOTH. CAN BE USED FOR LIFTING COLUMN IF SO DESIGNED.



WELDED UNREINFORCED FLANGE - WELDED WEB (WUF-W) CONN. AT FLOOR (SR) 4
S7.06
NO SCALE



TYPICAL MOMENT FRAME DETAILS



WELDED UNREINFORCED FLANGE - WELDED WEB (WUF-W) CONN. AT FLOOR (SR) 4
S7.06
NO SCALE

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916 929 9290 T
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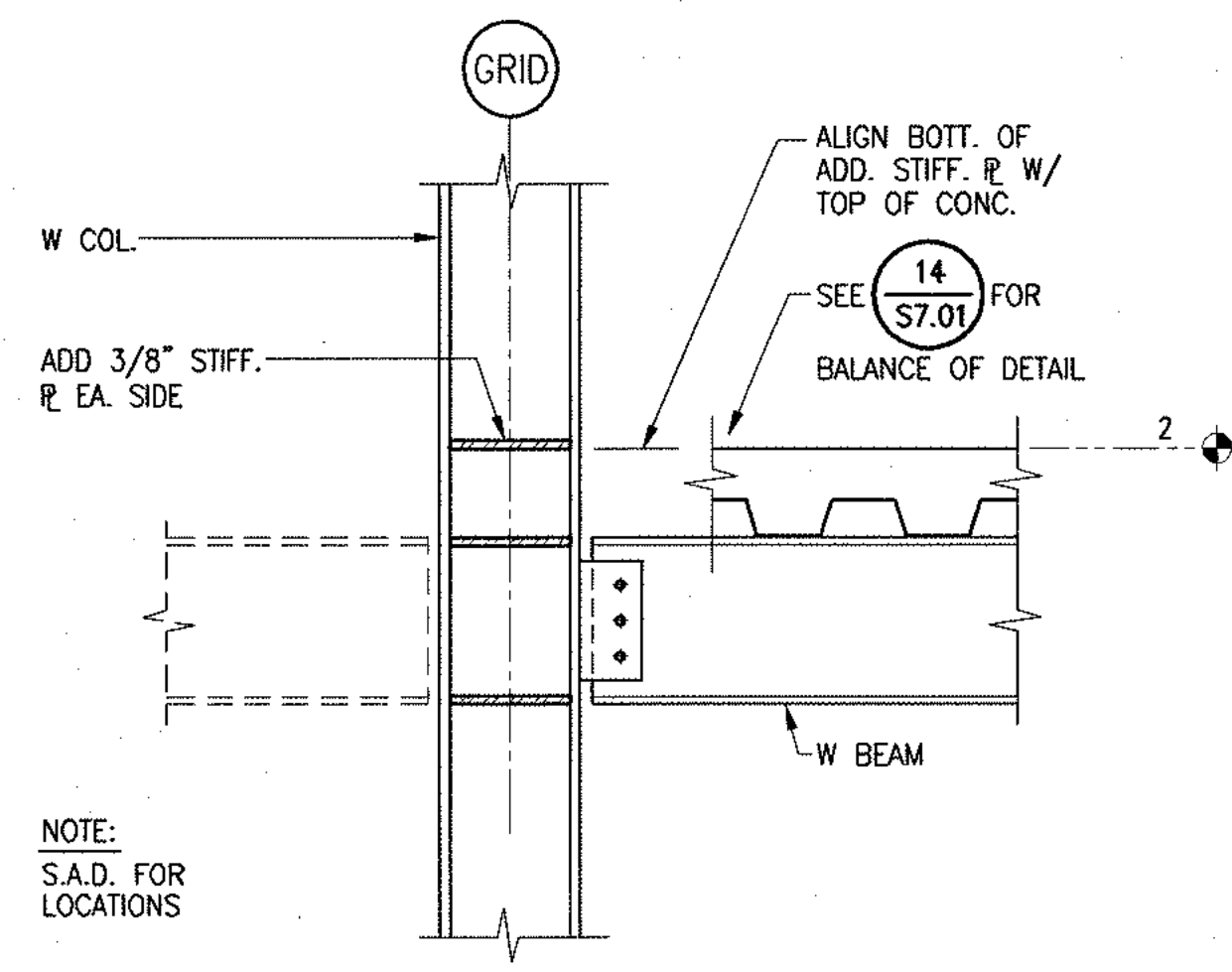
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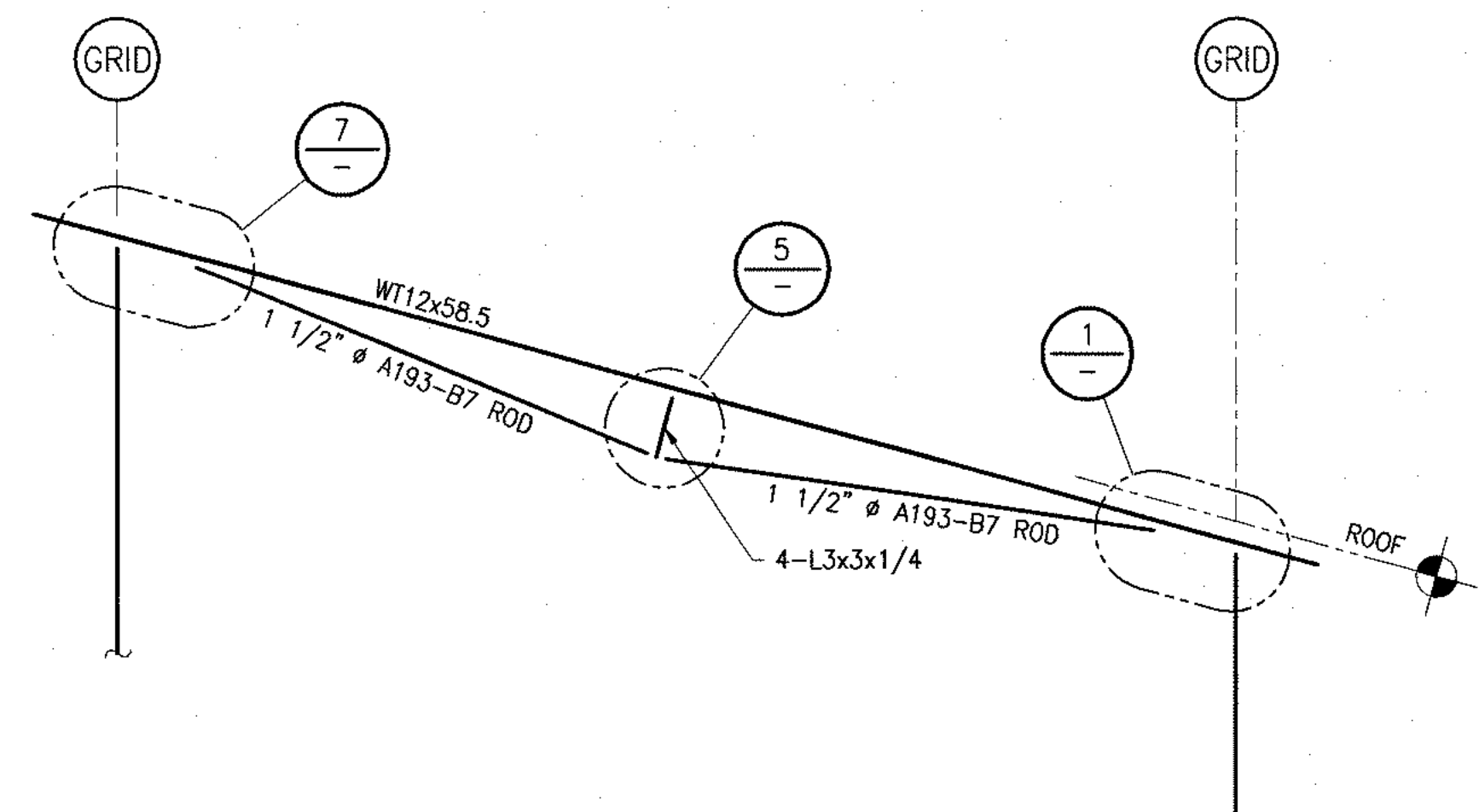
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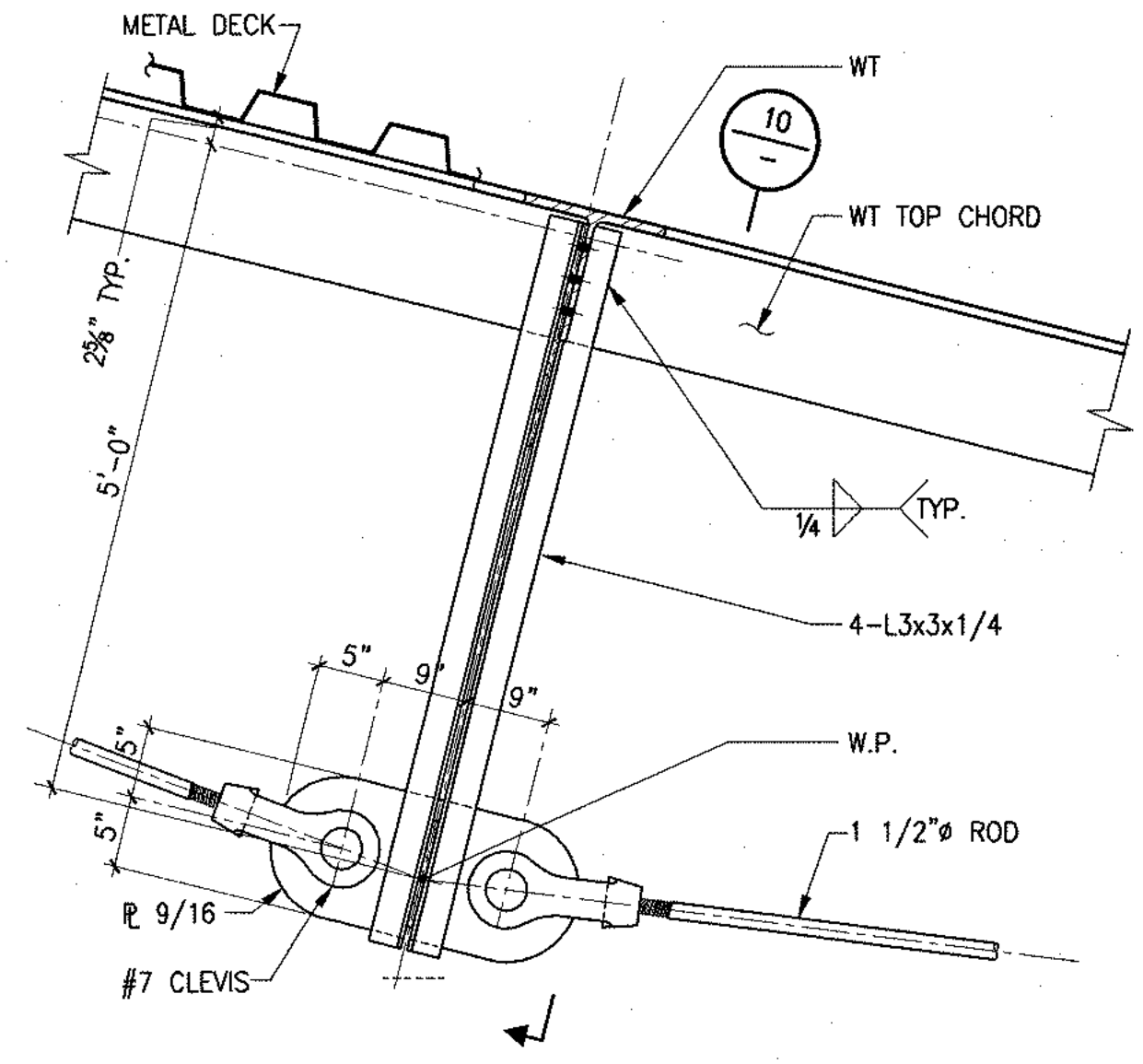
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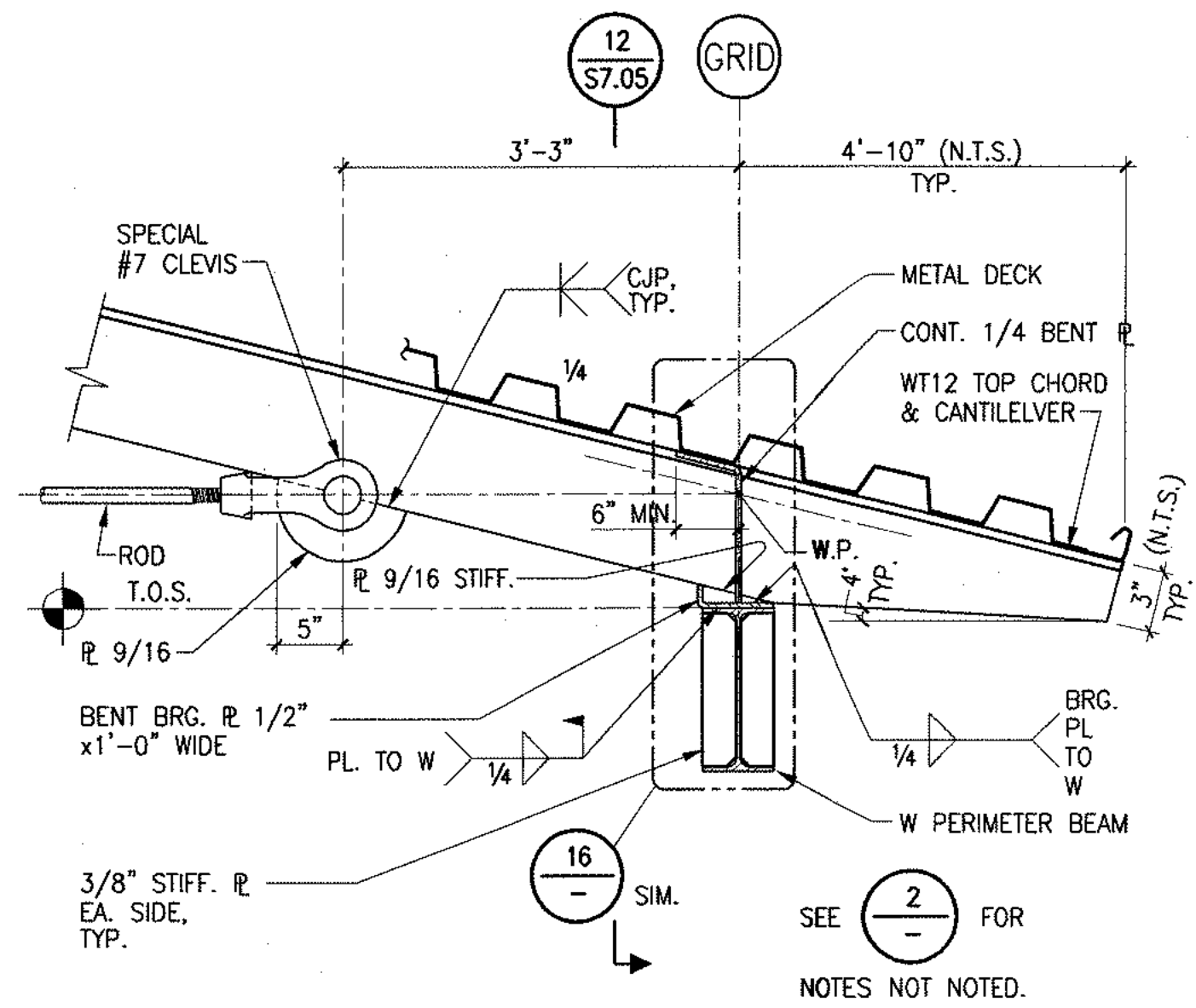
ADD. STIFF. PLATE AT EXPOSED COLUMNS
3/4"=1'-0" (17) S7.07



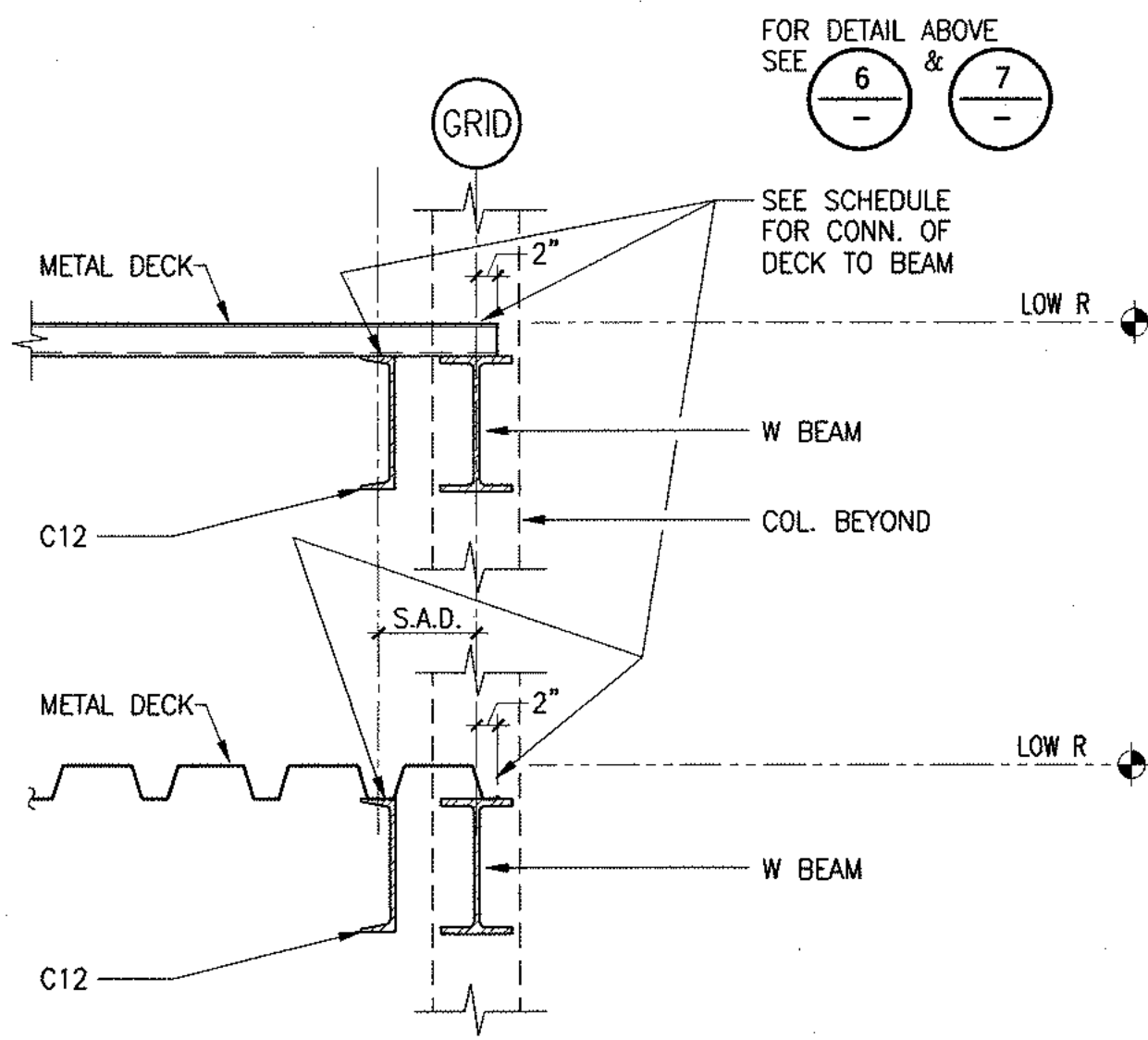
TRUSS ELEVATION
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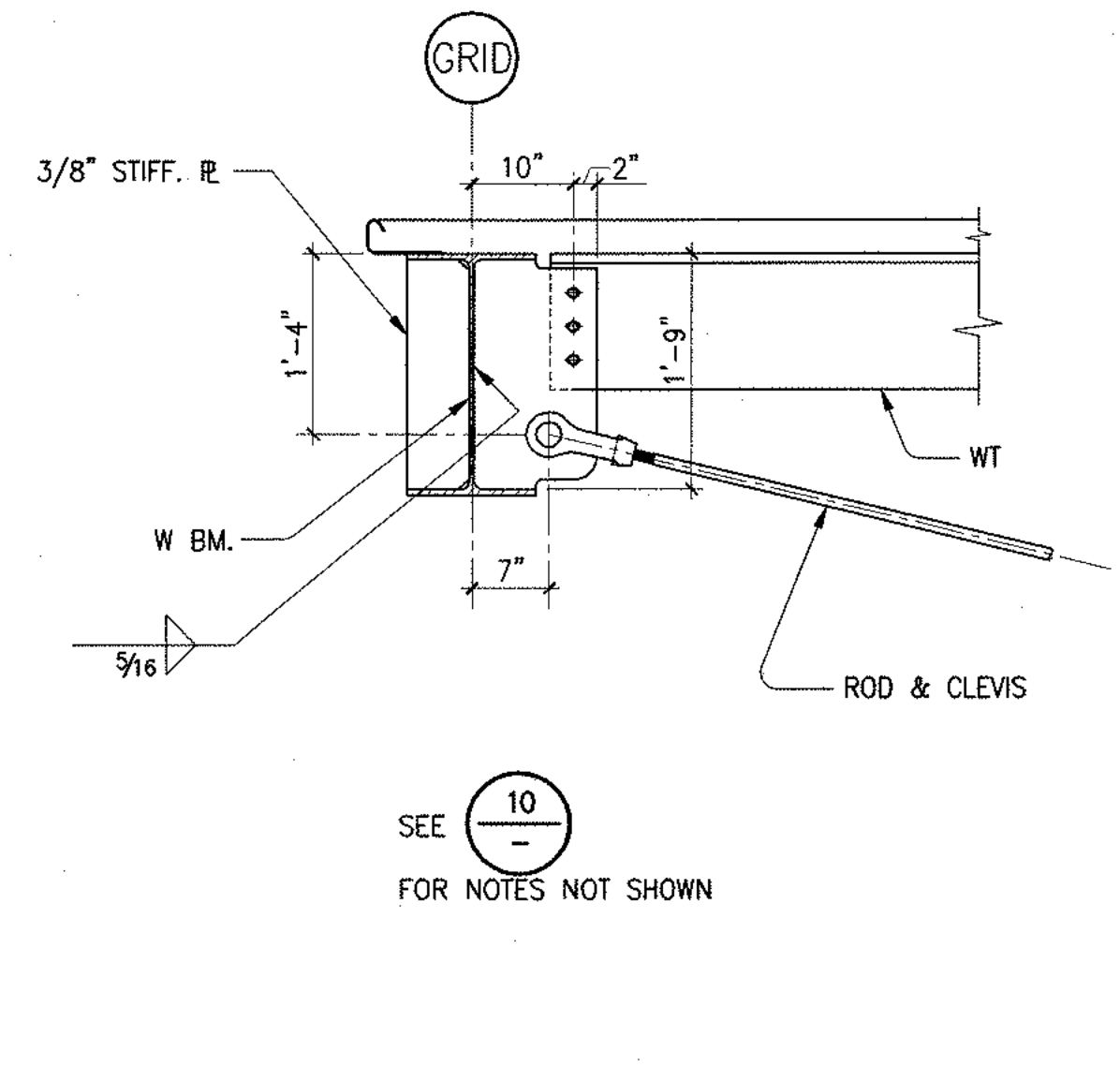
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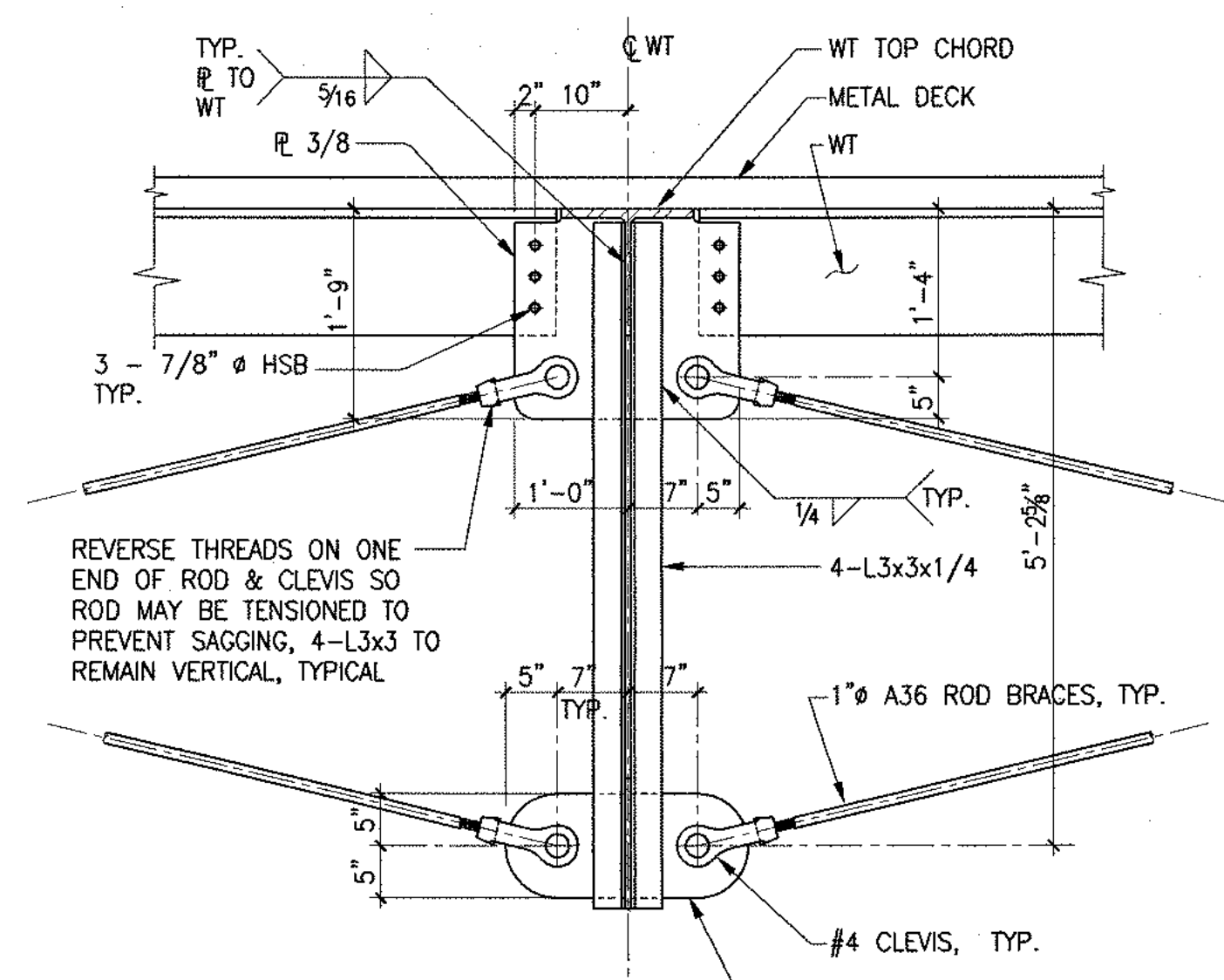
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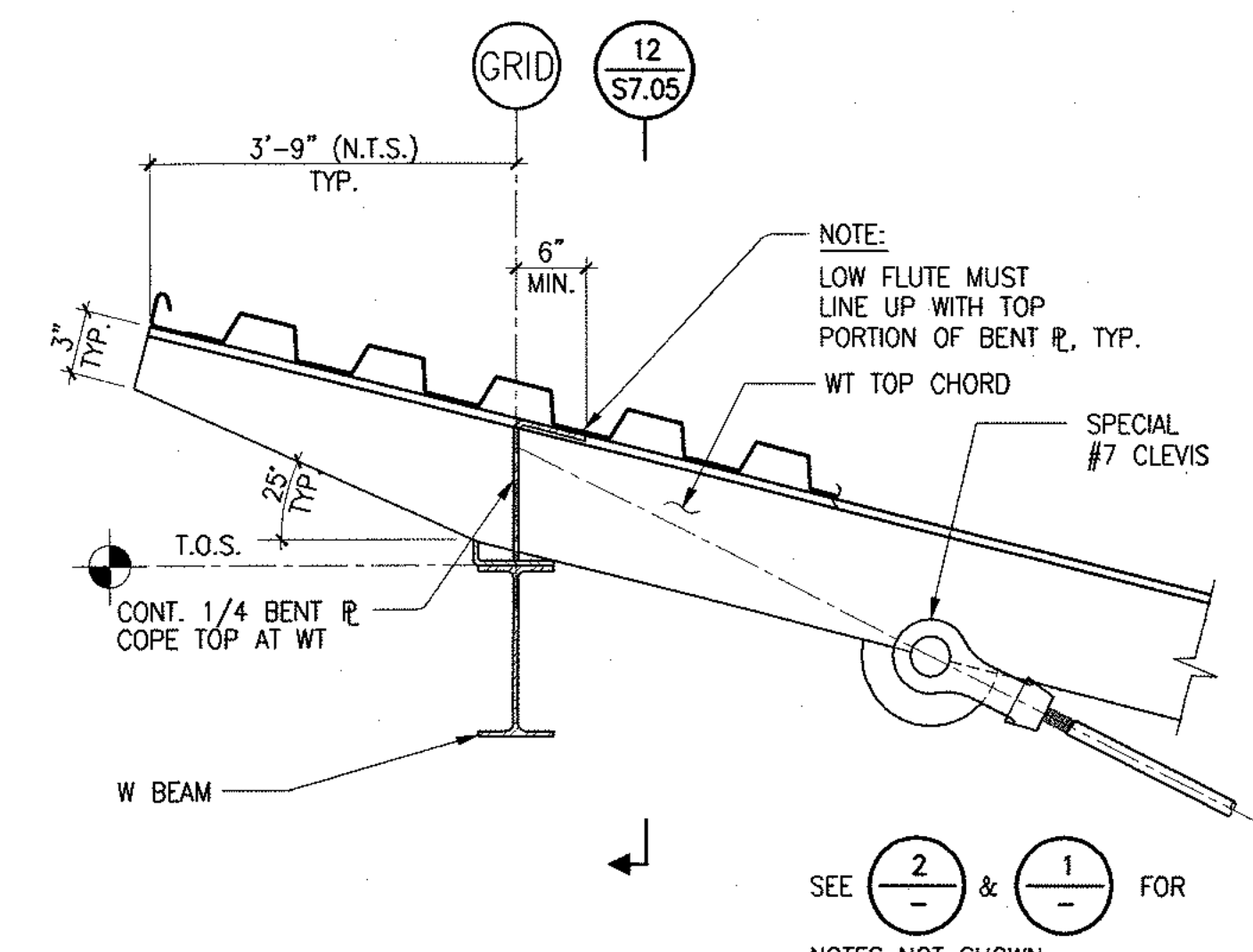
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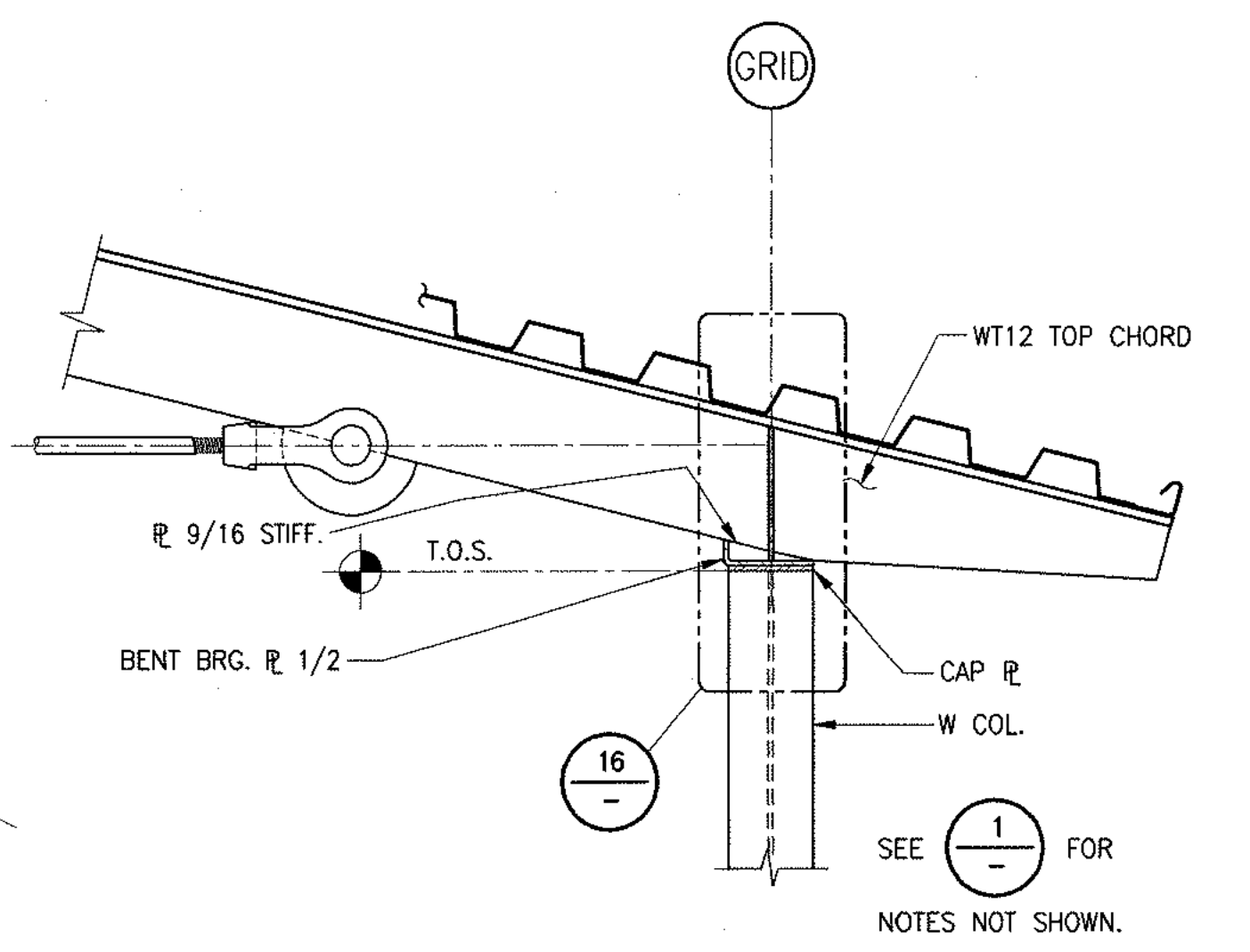
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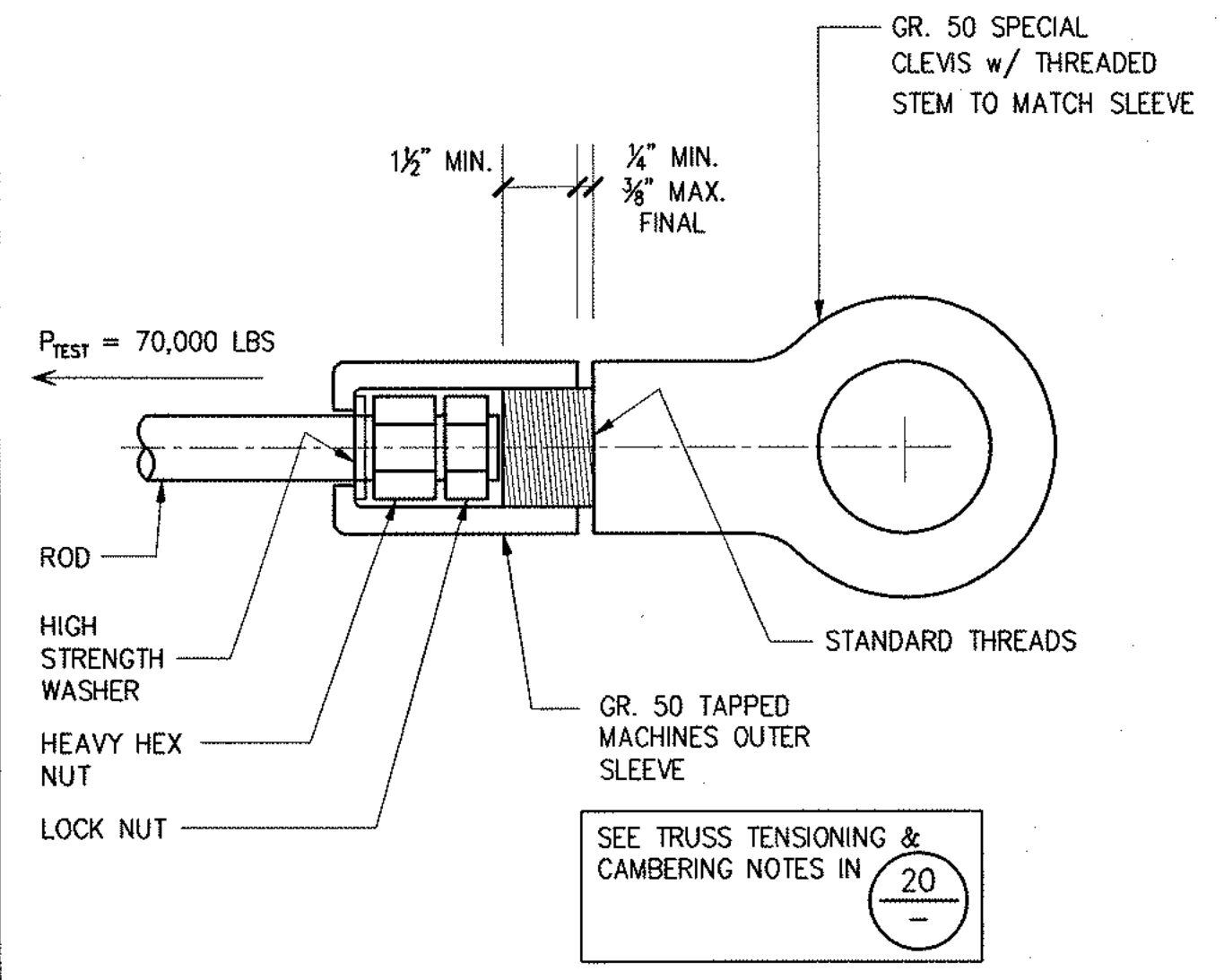
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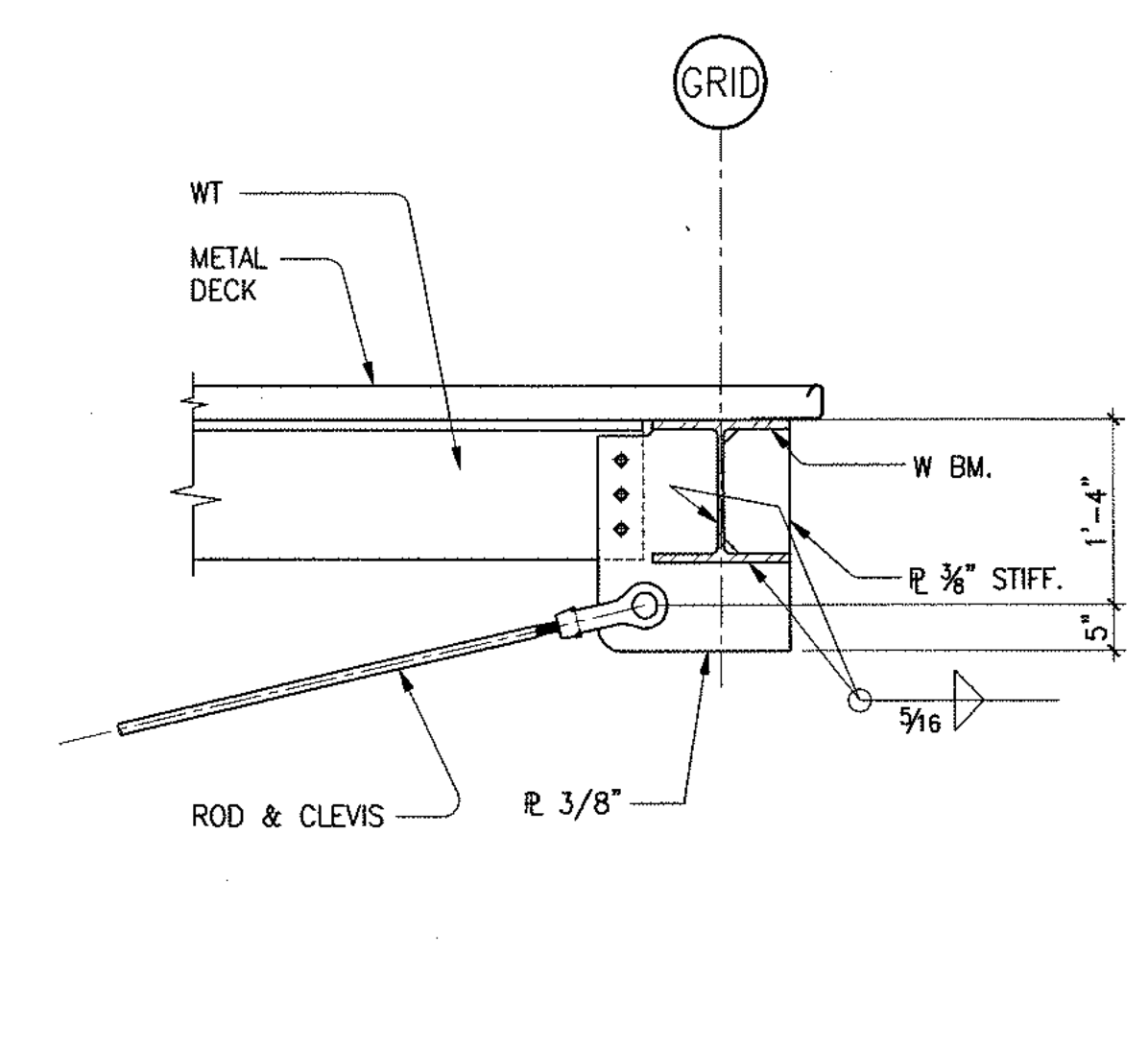
DETAIL
3/4"=1'-0" (6) S7.07



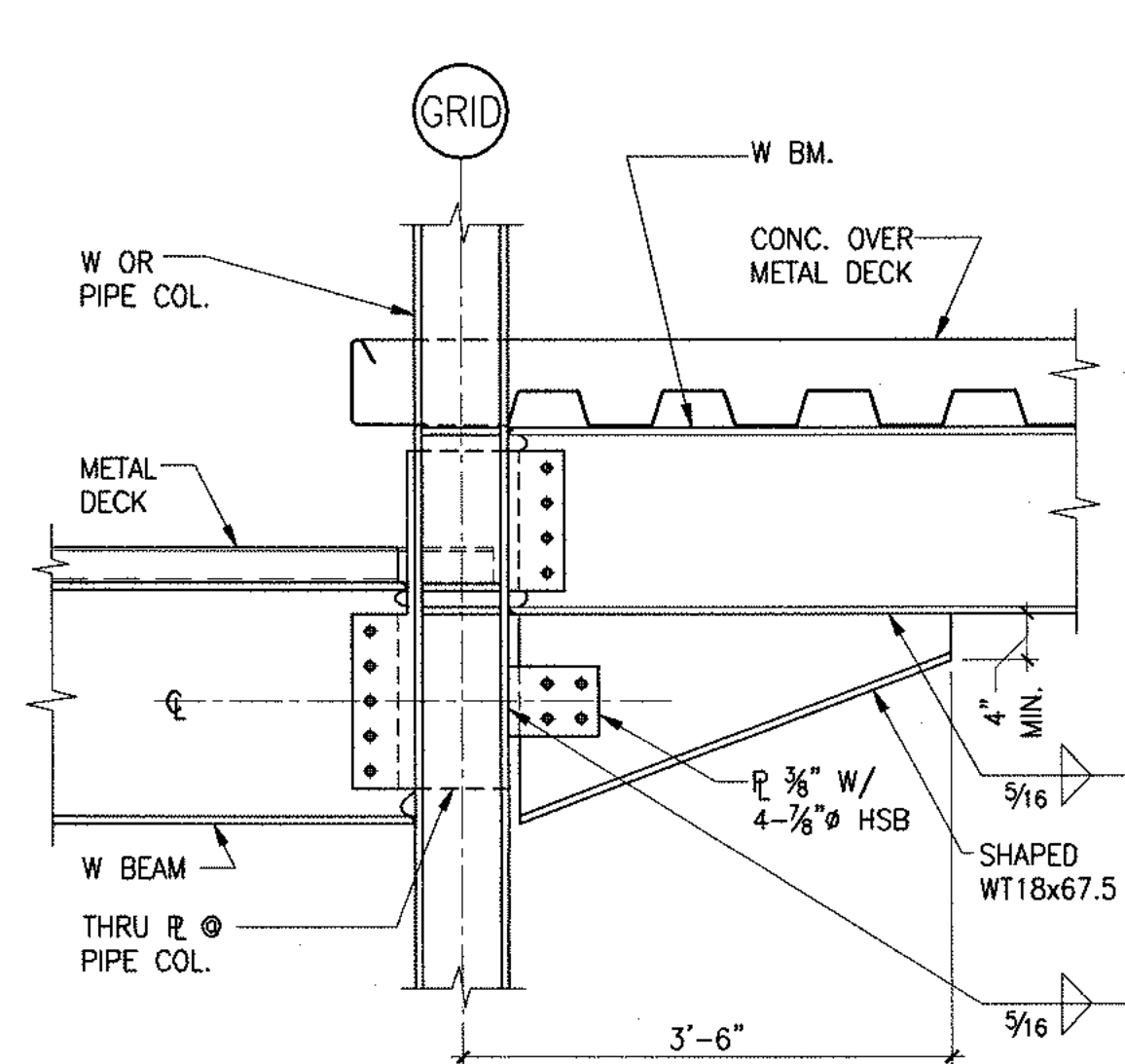
DETAIL
3/4"=1'-0" (2) S7.07



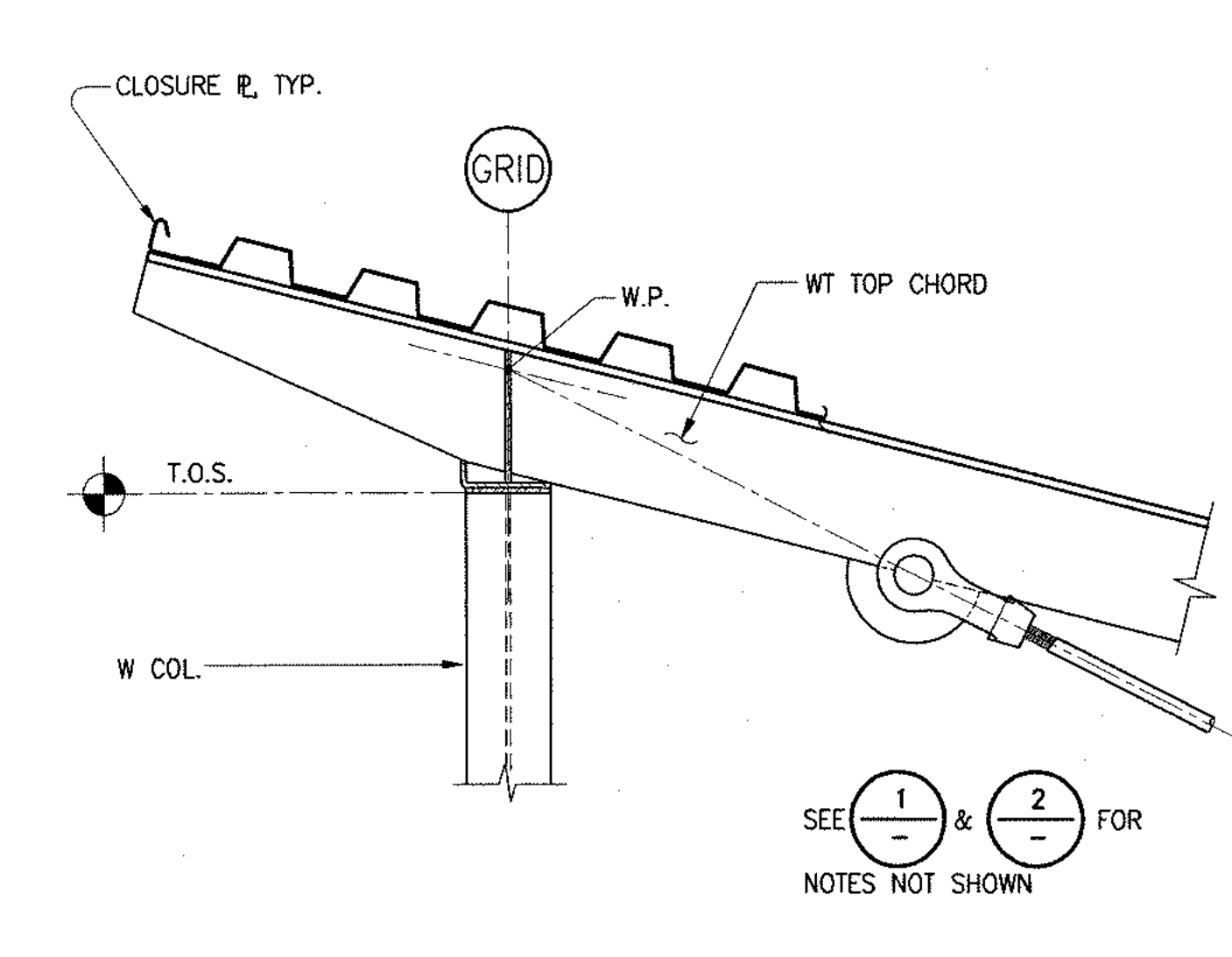
SPECIAL TENSIONING CLEVIS
3"=1'-0" (19) S7.07



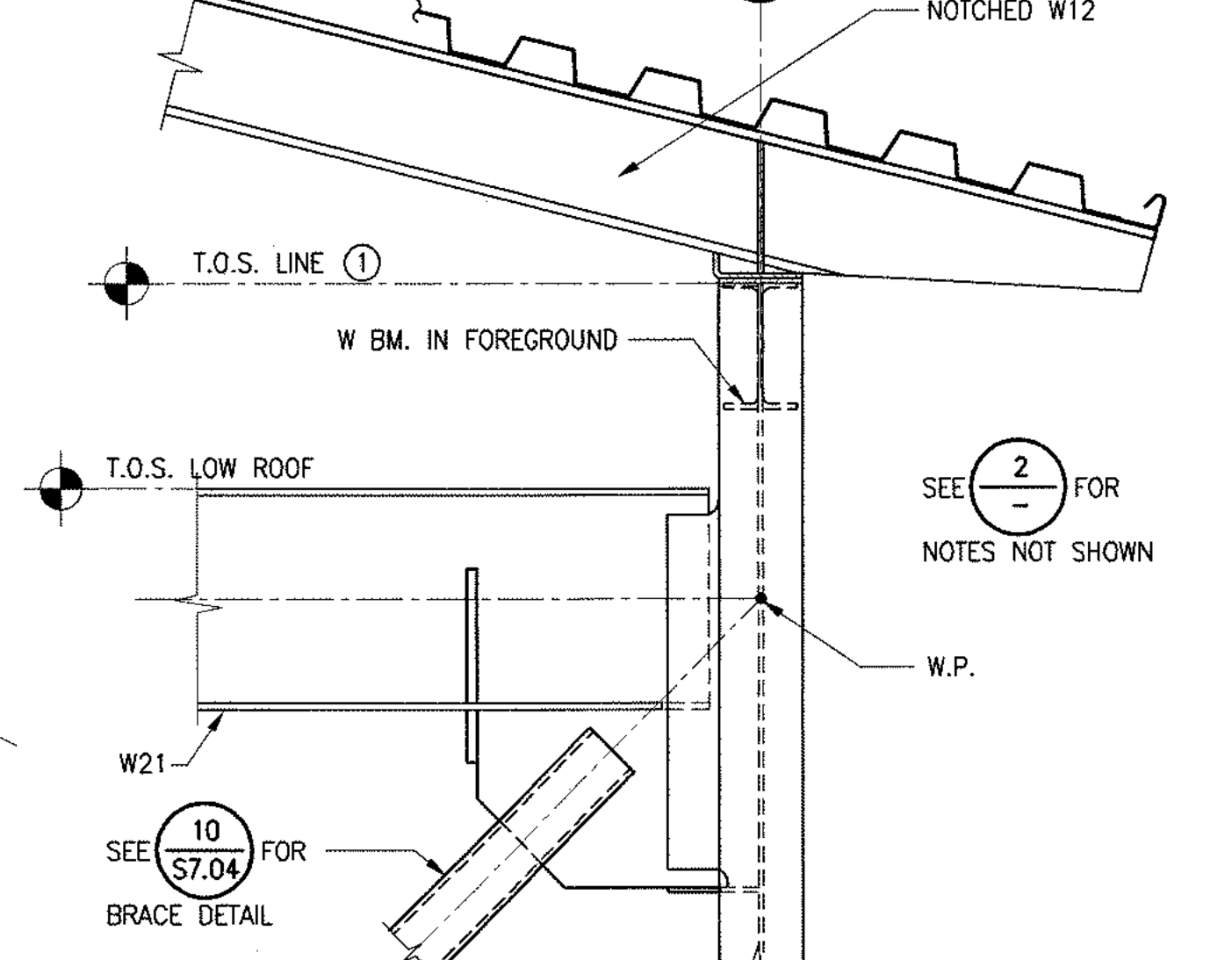
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3/4"=1'-0" (15) S7.07



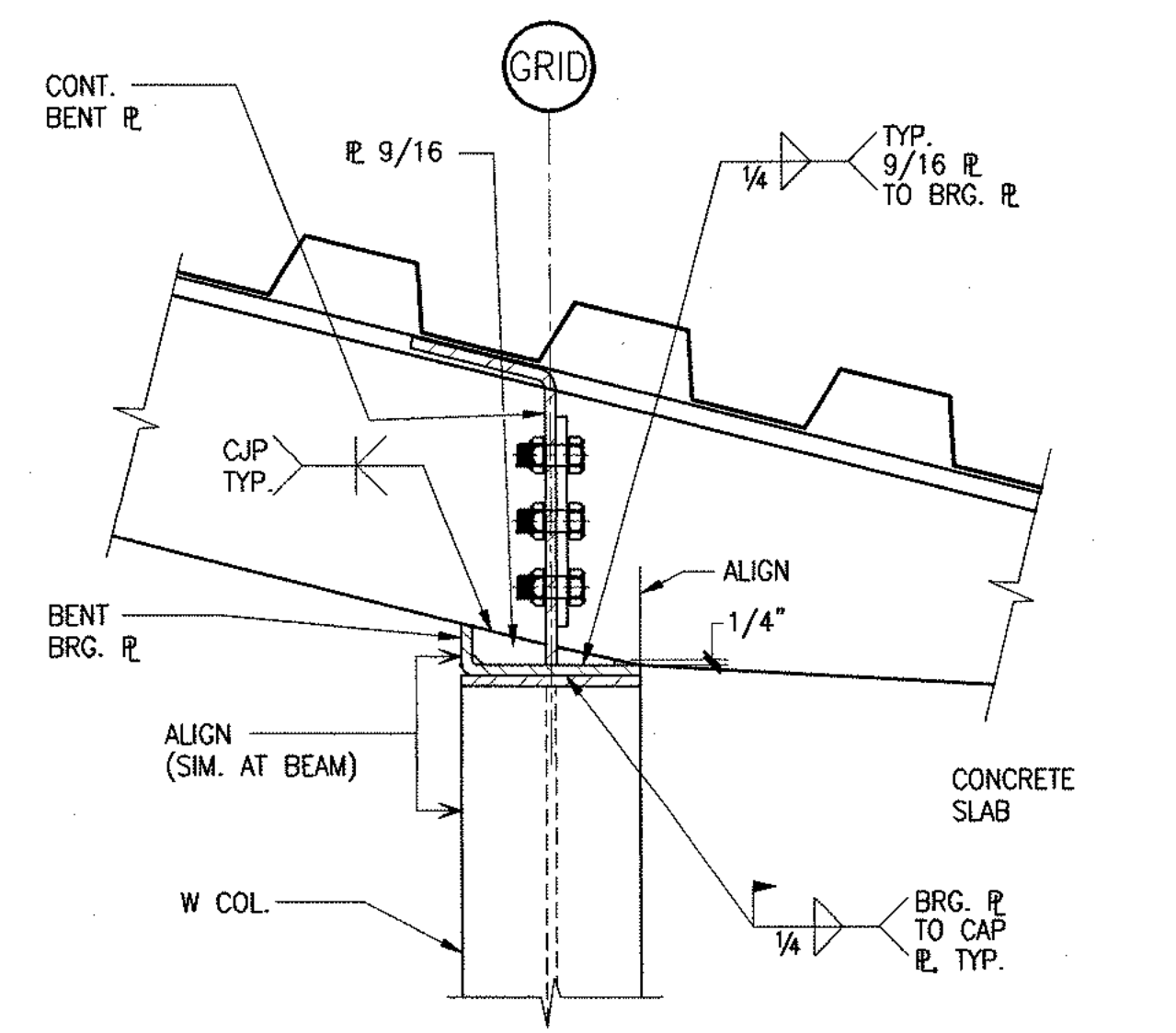
DETAIL
3/4"=1'-0" (11) S7.07



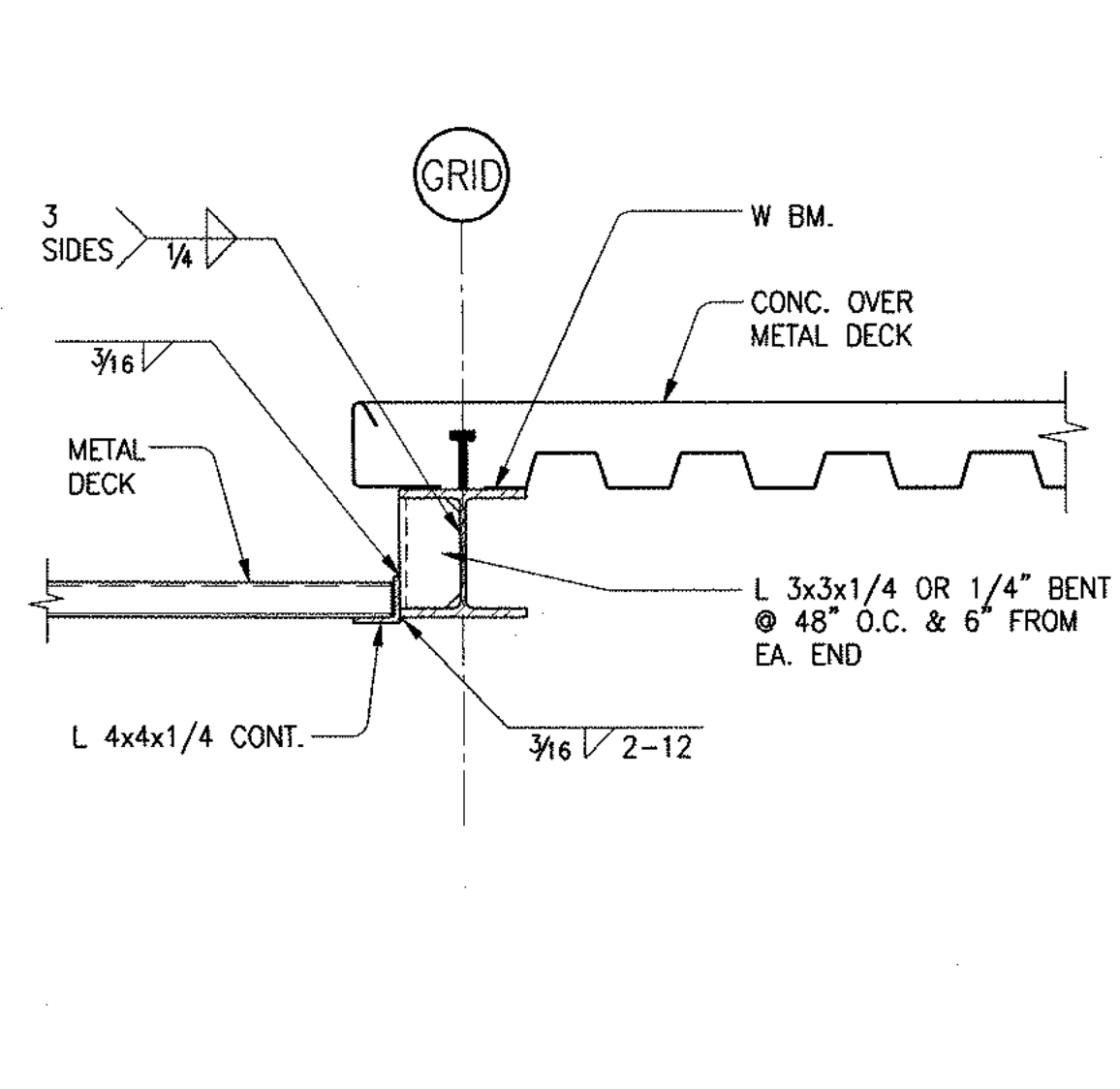
DETAIL
3/4"=1'-0" (7) S7.07



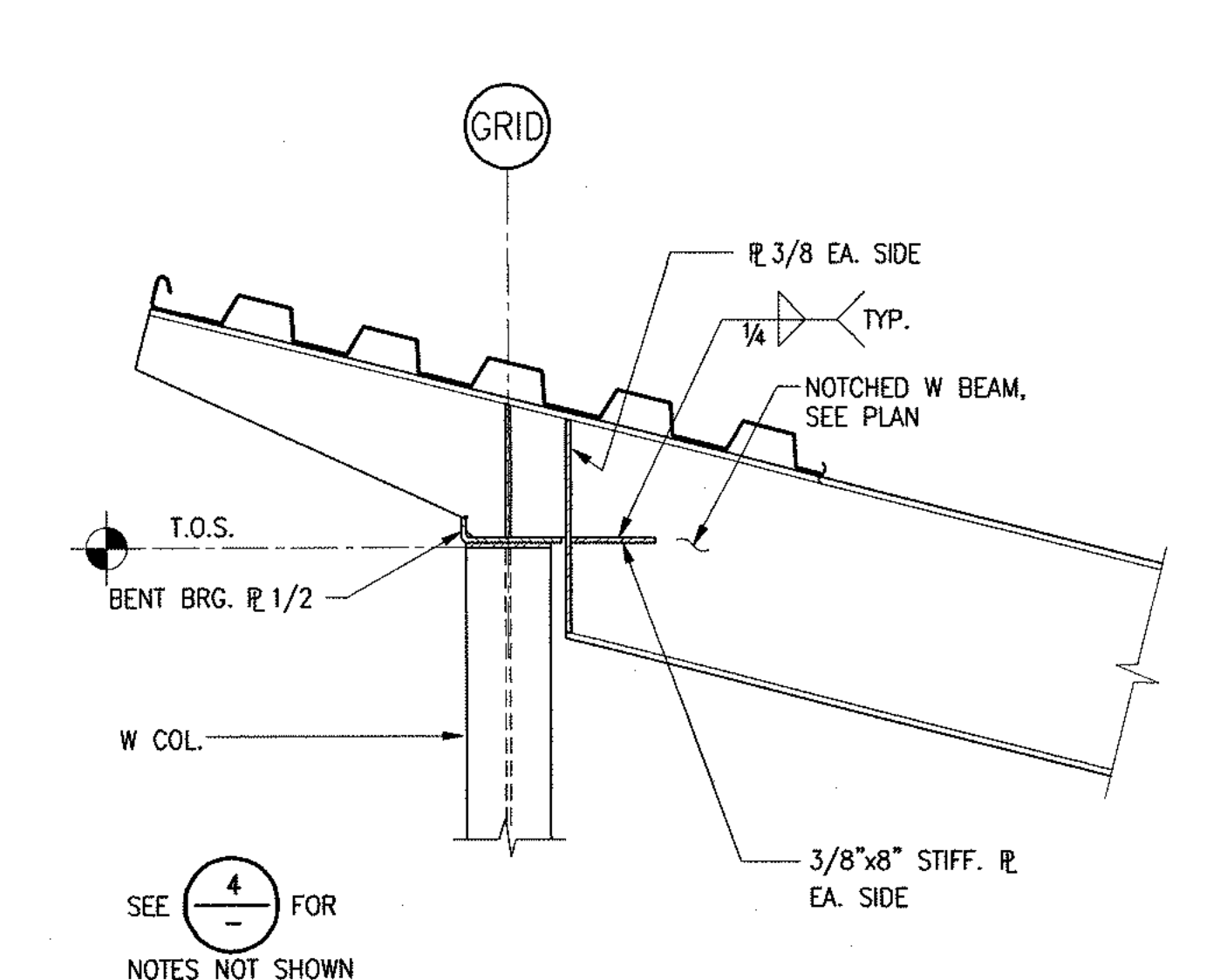
DETAIL
3/4"=1'-0" (3) S7.07



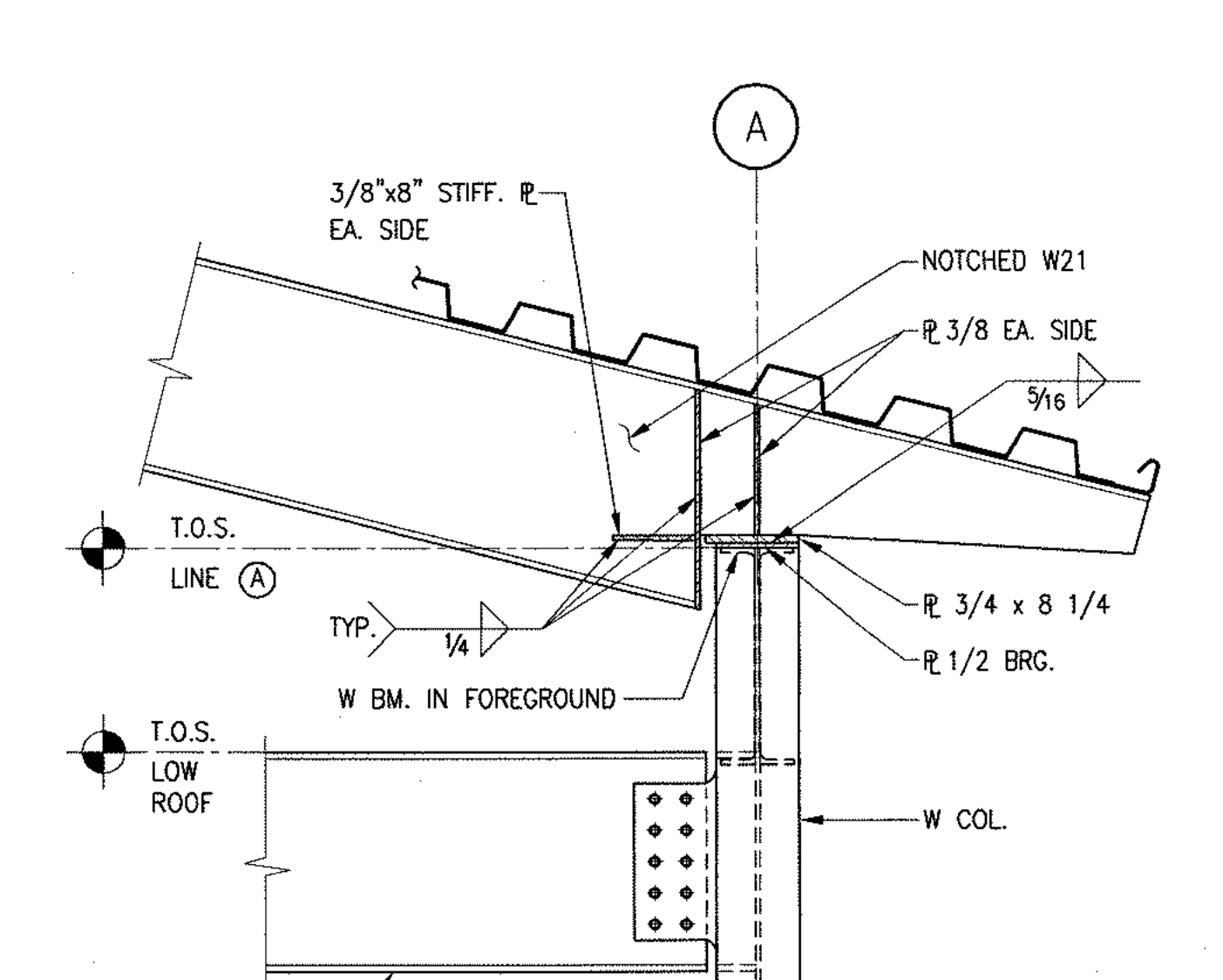
DETAIL
1 1/2"=1'-0" (16) S7.07



DETAIL
3/4"=1'-0" (12) S7.07



DETAIL
3/4"=1'-0" (8) S7.07



DETAIL
3/4"=1'-0" (4) S7.07

- TRUSS TENSIONING AND CAMBERING NOTES** (20) S7.07
- SPECIAL TENSIONING CLEVIS SHOWN IN DETAIL 19 IS SHOWN AS A BASIS FOR CONTRACTOR ALTERNATE USING PRE-MANUFACTURED DESIGN IF AVAILABLE, TO BE REVIEWED BY ARCHITECT AND USED ONLY IF ACCEPTABLE TO ARCHITECTURAL DESIGN.
 - TRUSS SHALL BE PROVIDED WITH INITIAL UPWARD CAMBER OF 3/4" AT MIDSPAN. TRUSS CAMBER SHALL NOT BE OBTAINED BY CAMBERING TOP CHORD. TRUSS CAMBER SHALL BE PROVIDED BY EQUALLY TENSIONING BOTTOM CHORD RODS ON EACH SIDE OF MIDSPAN, USING SPECIAL TENSIONING CLEVIS.
 - GRIND OUTSIDE OF TENSIONING SLEEVE TO REMOVE ALL TOOL MARKS FOLLOWING COMPLETION OF CAMBERING AND ERECTION, AND PRIOR TO APPLICATION OF SECOND PRIMER COAT AND TOP COAT (SEE SPECS).
 - CONTRACTOR SHALL MANUFACTURE TWO EXTRA SPECIAL TENSIONING CLEVIS. OWNER'S TESTING AGENCY SHALL SELECT TWO SPECIAL TENSIONING CLEVIS AT RANDOM PRIOR TO TRUSS FABRICATION AND SHALL TENSION TEST TO LOAD SHOWN IN DETAIL 19 TO VERIFY ADEQUACY. CLEVIS SHALL NOT SHOW ANY SIGNS OF YIELDING.

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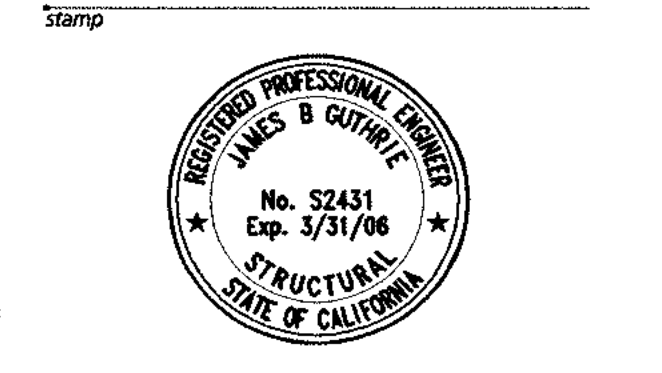
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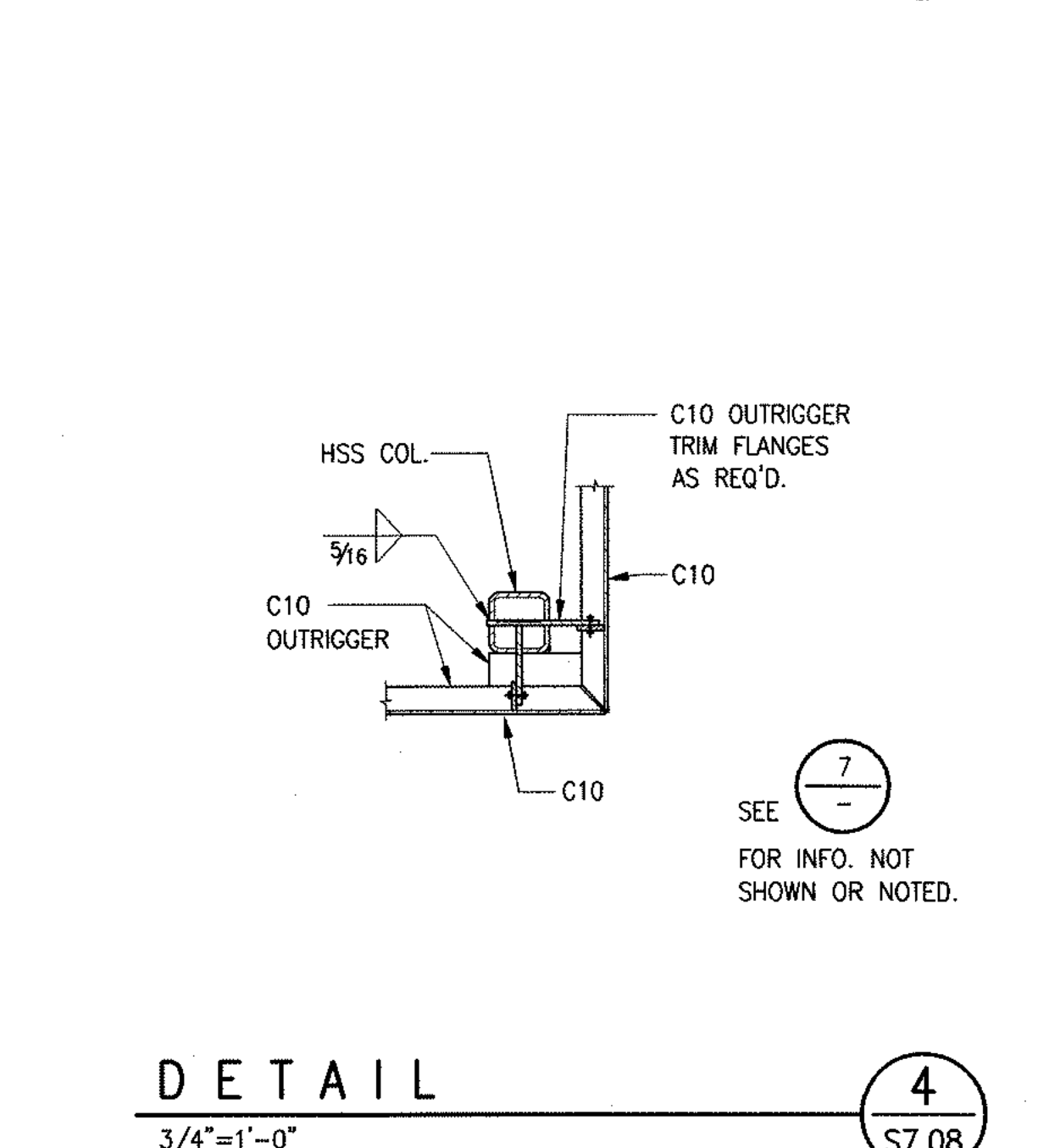
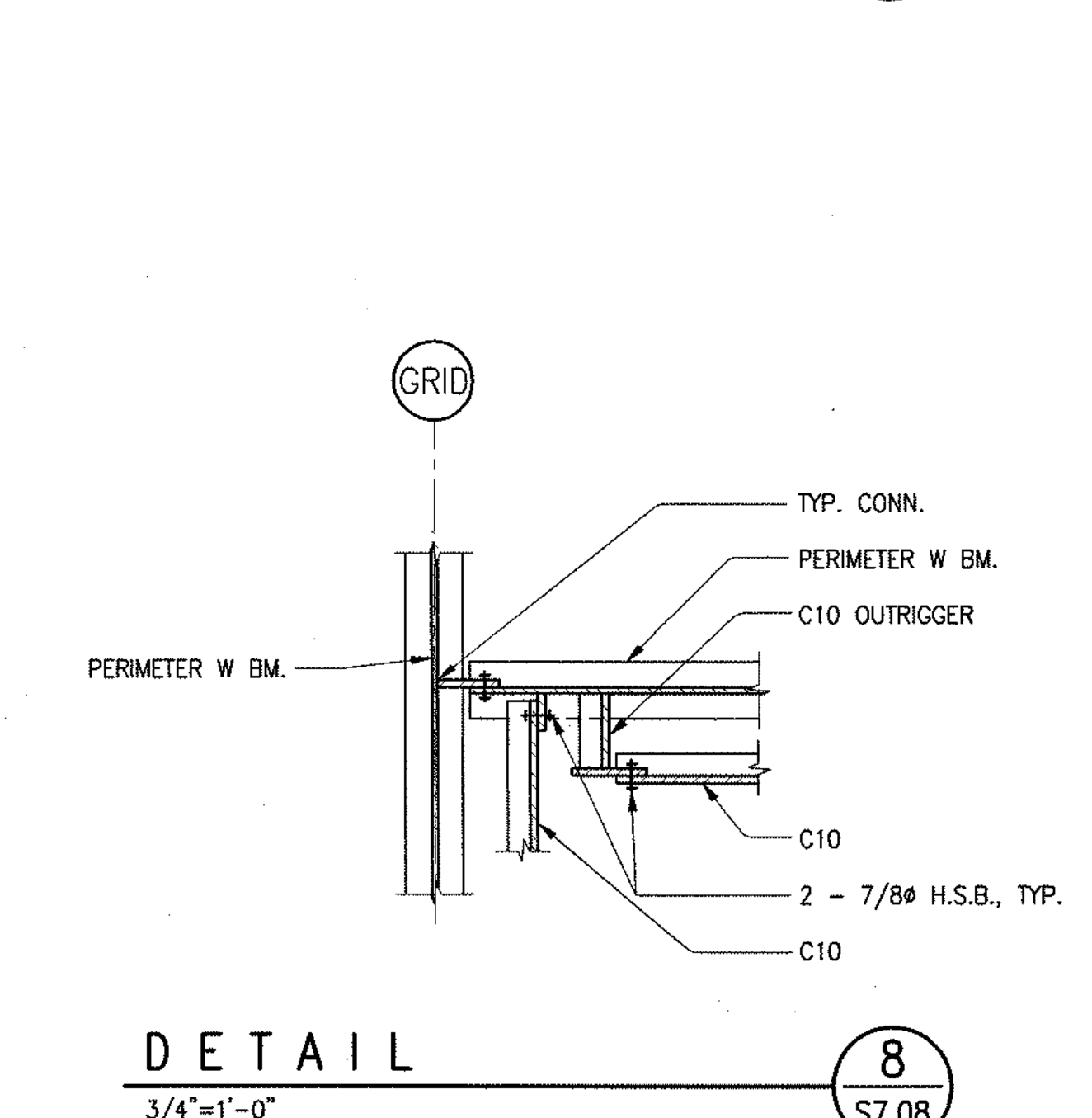
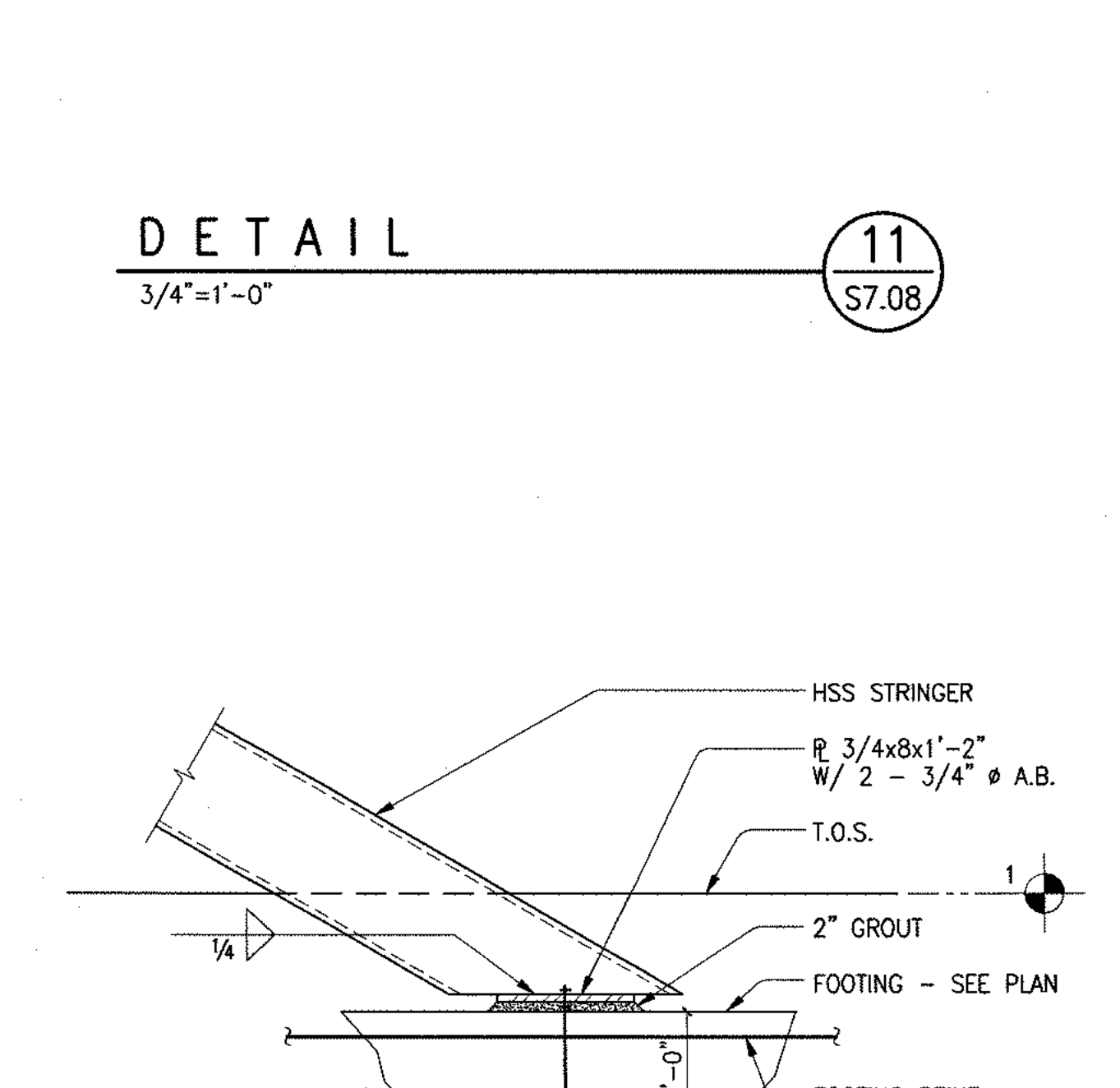
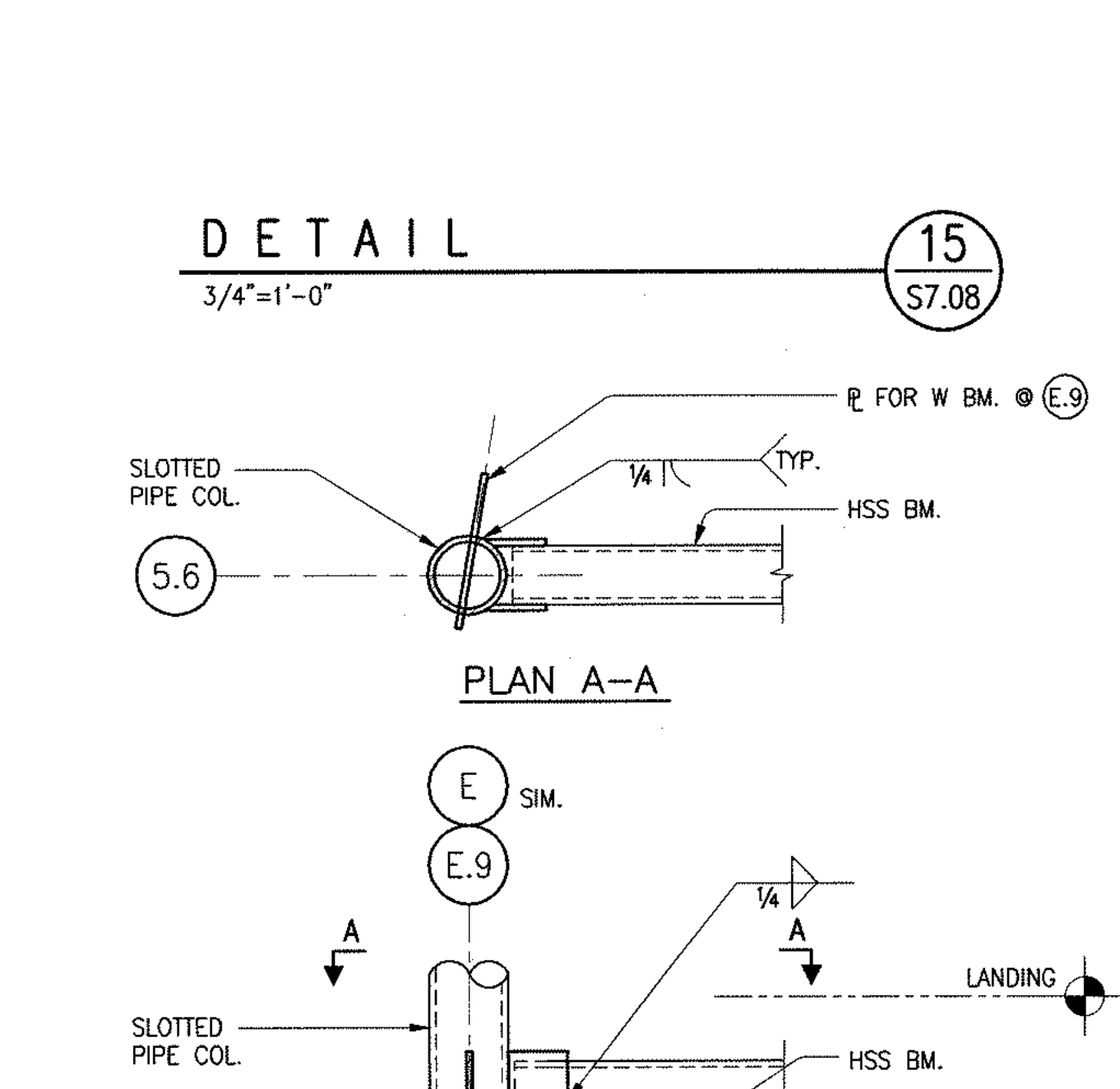
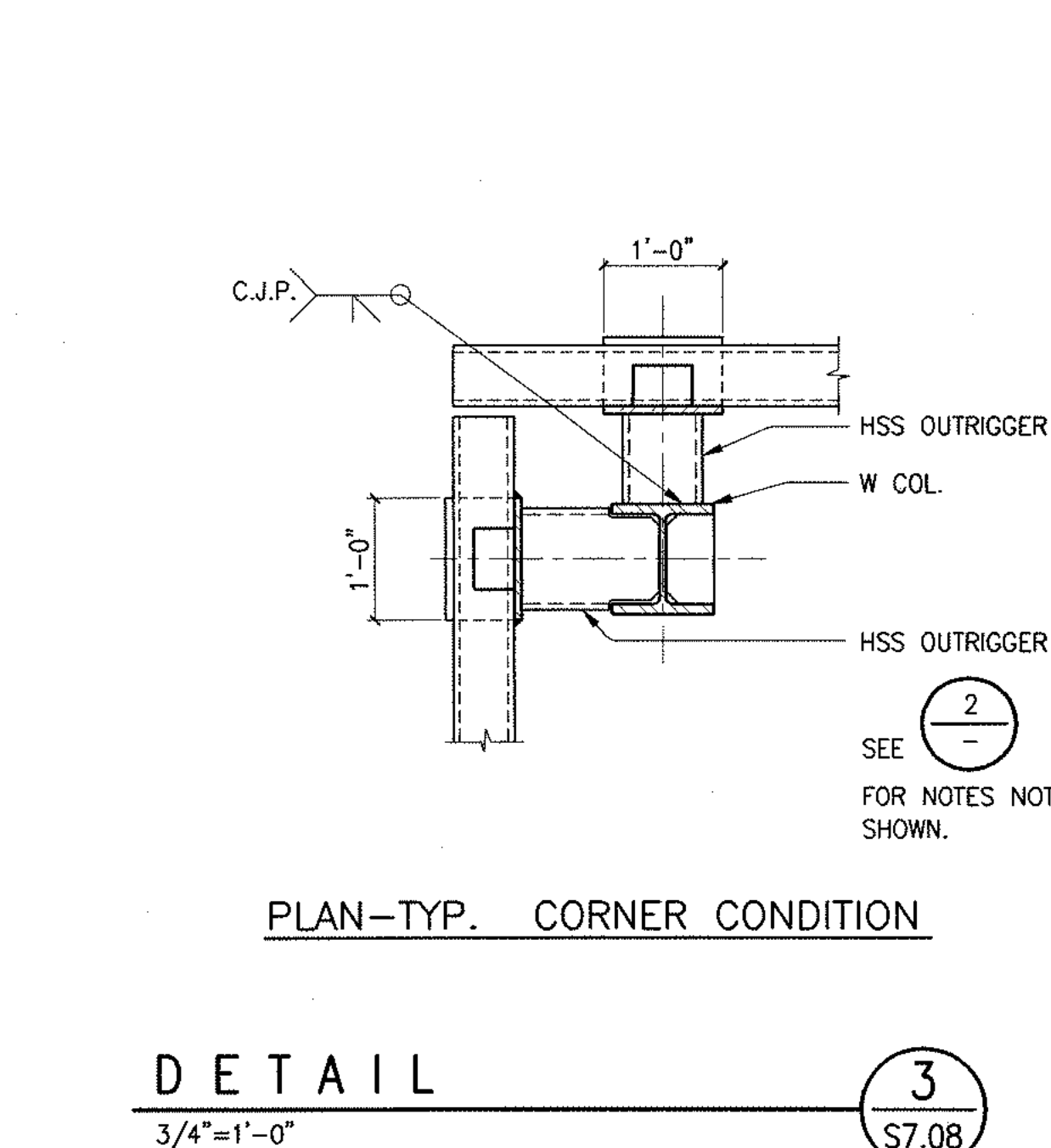
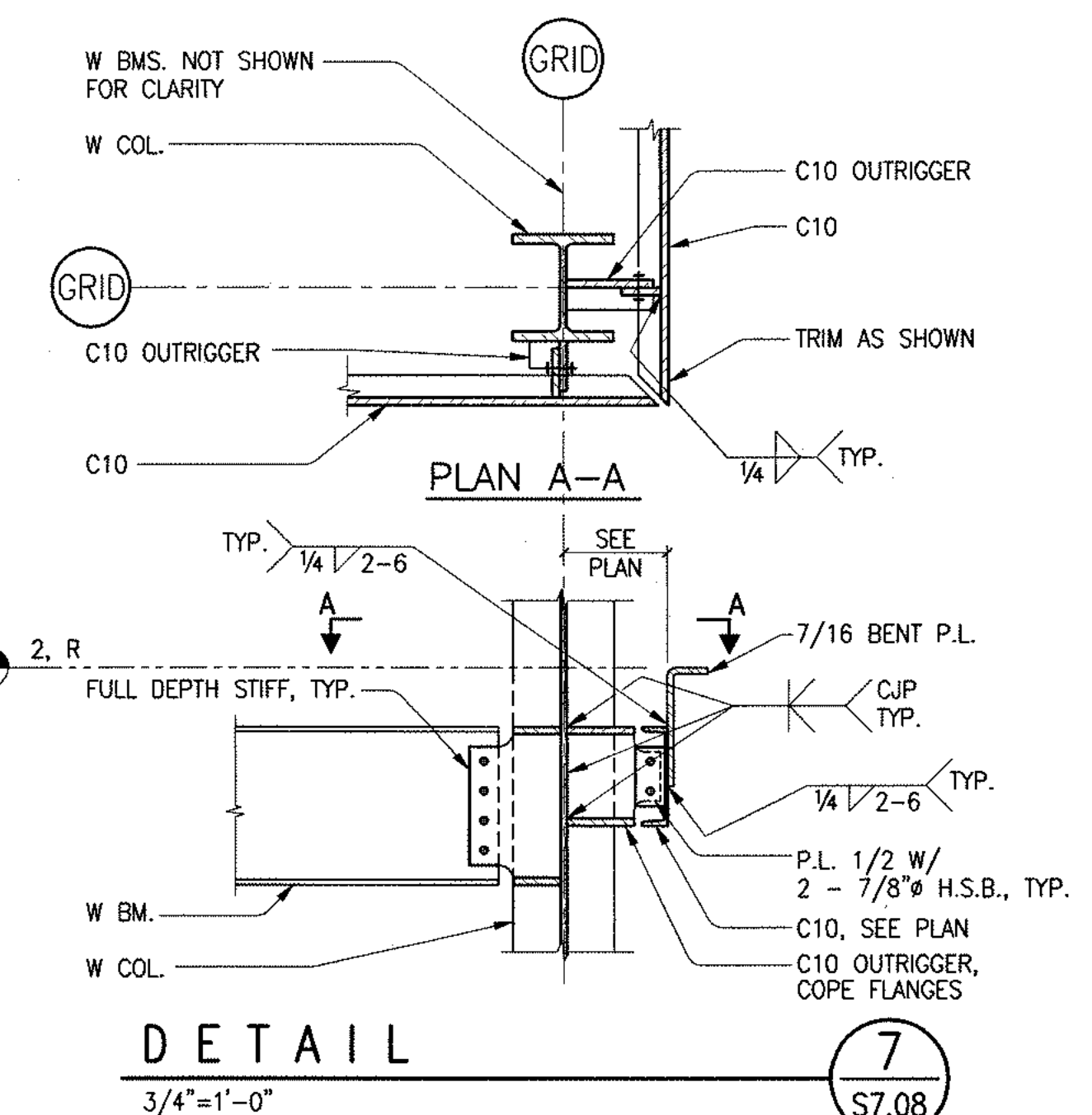
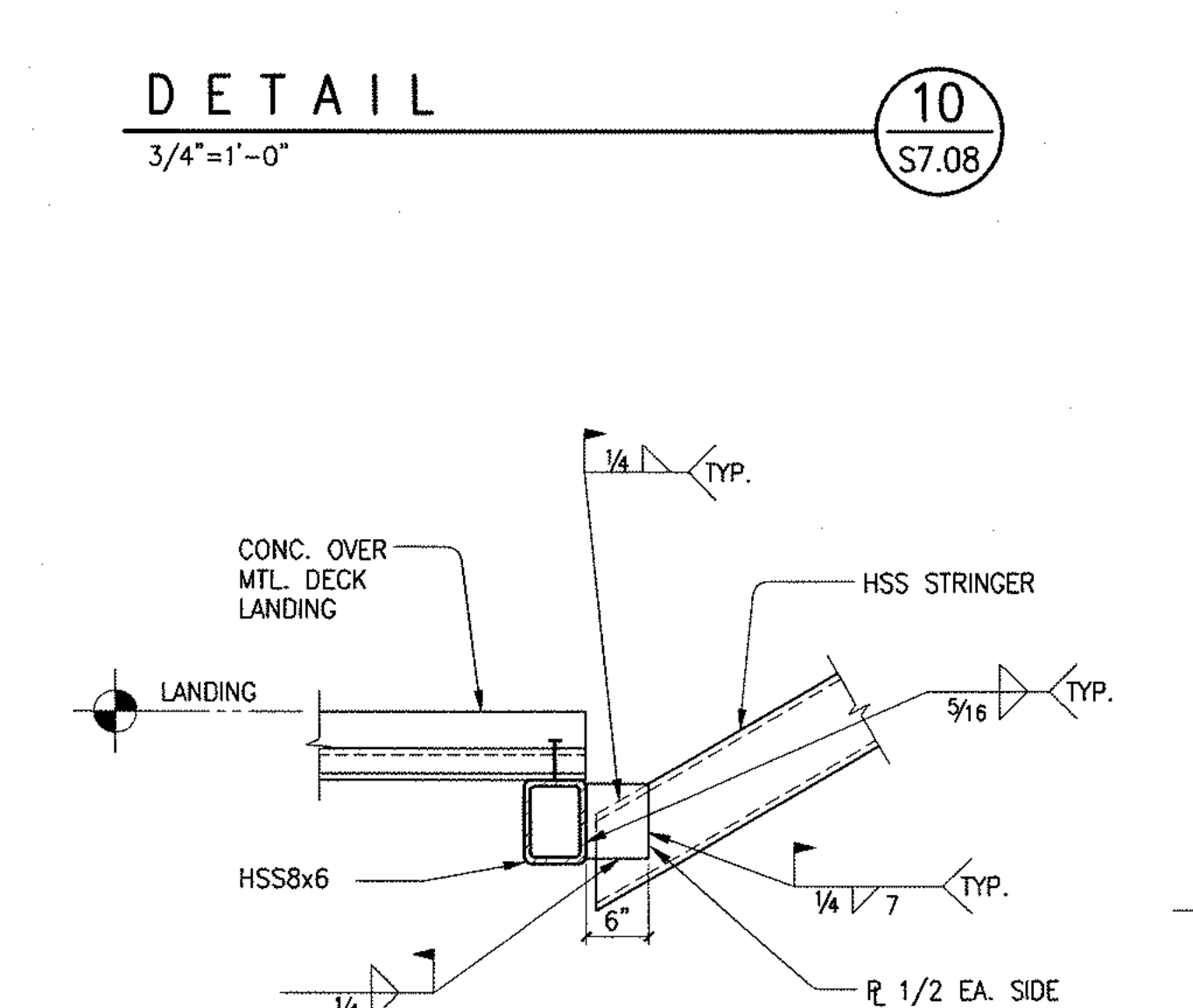
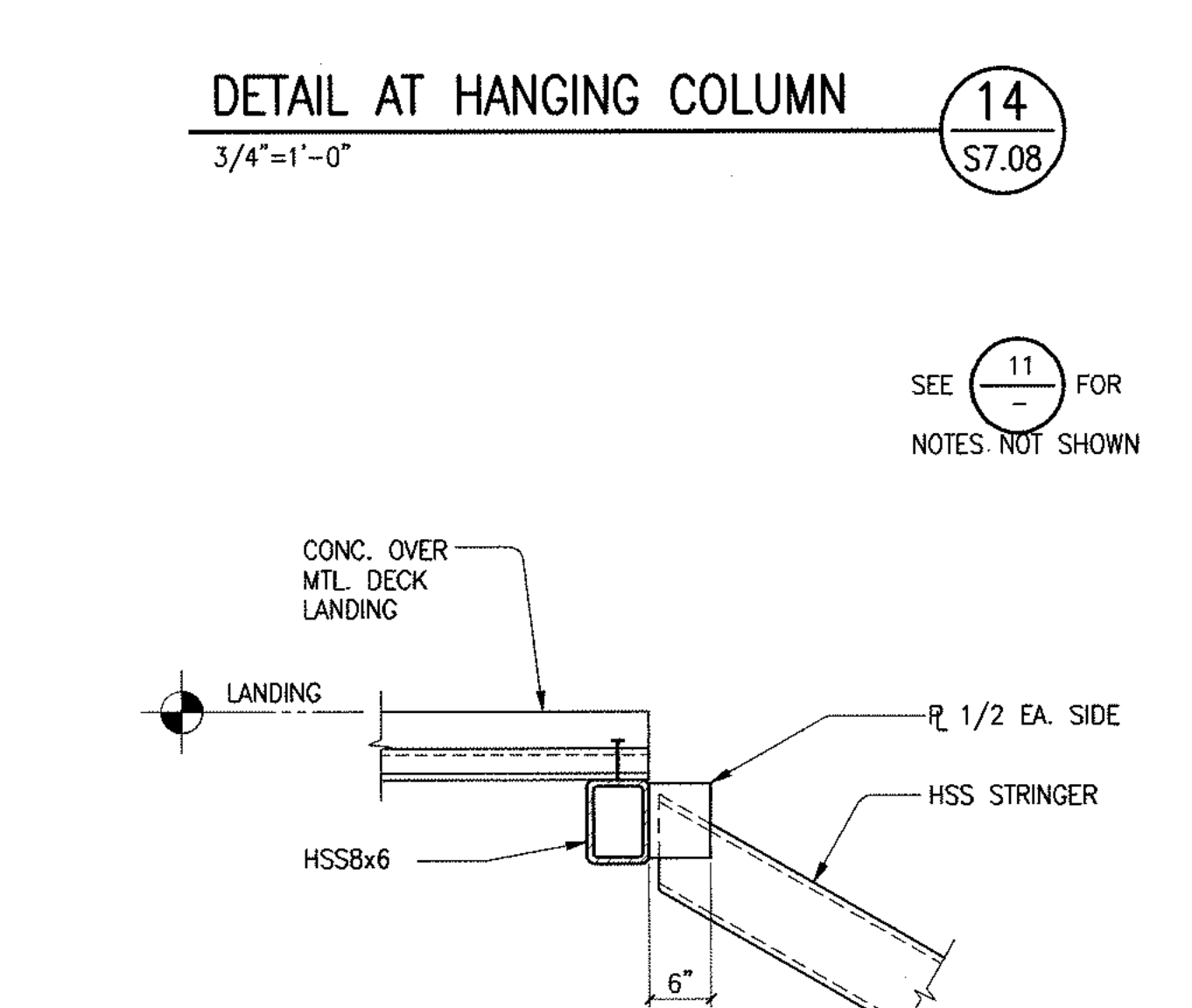
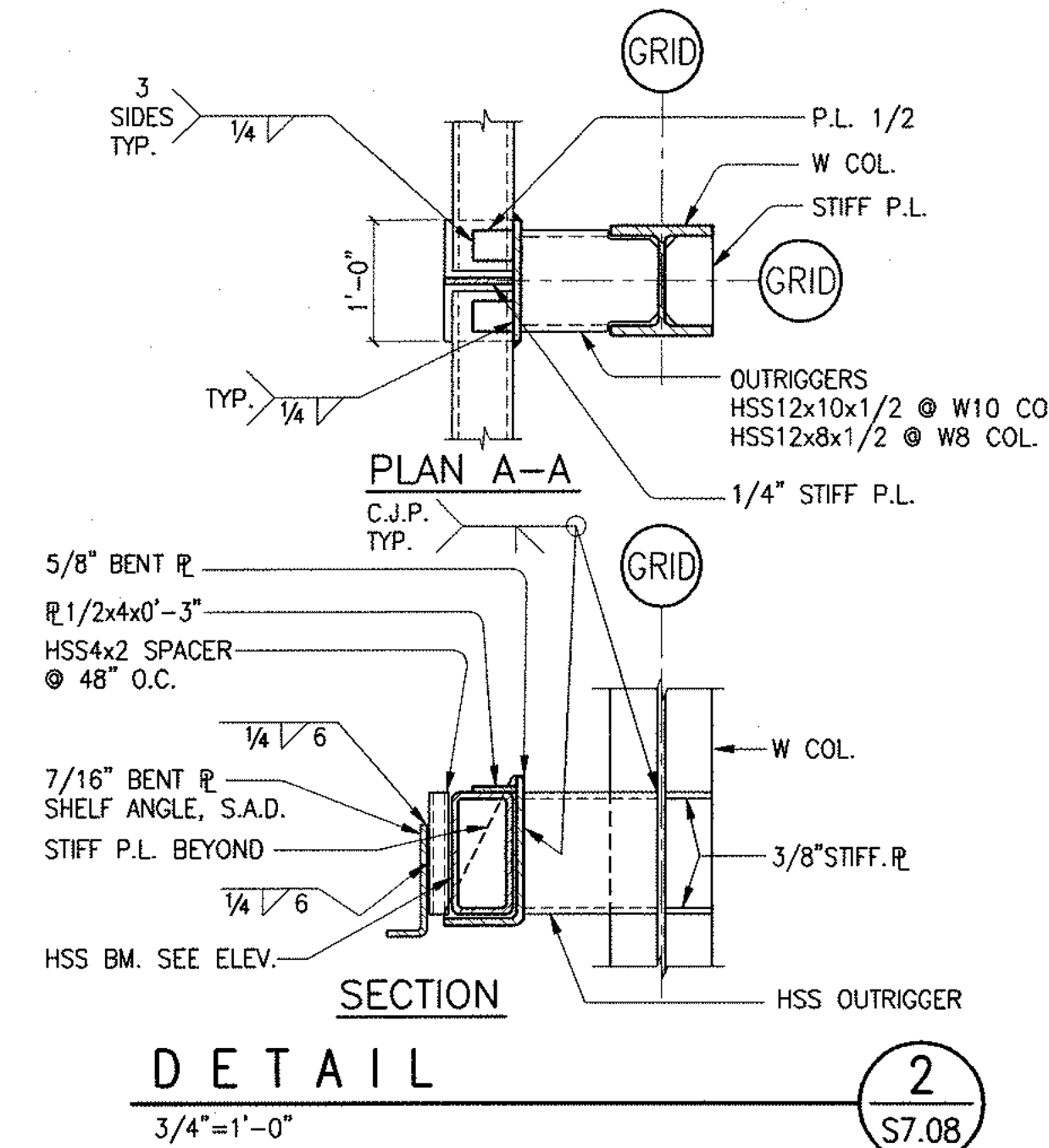
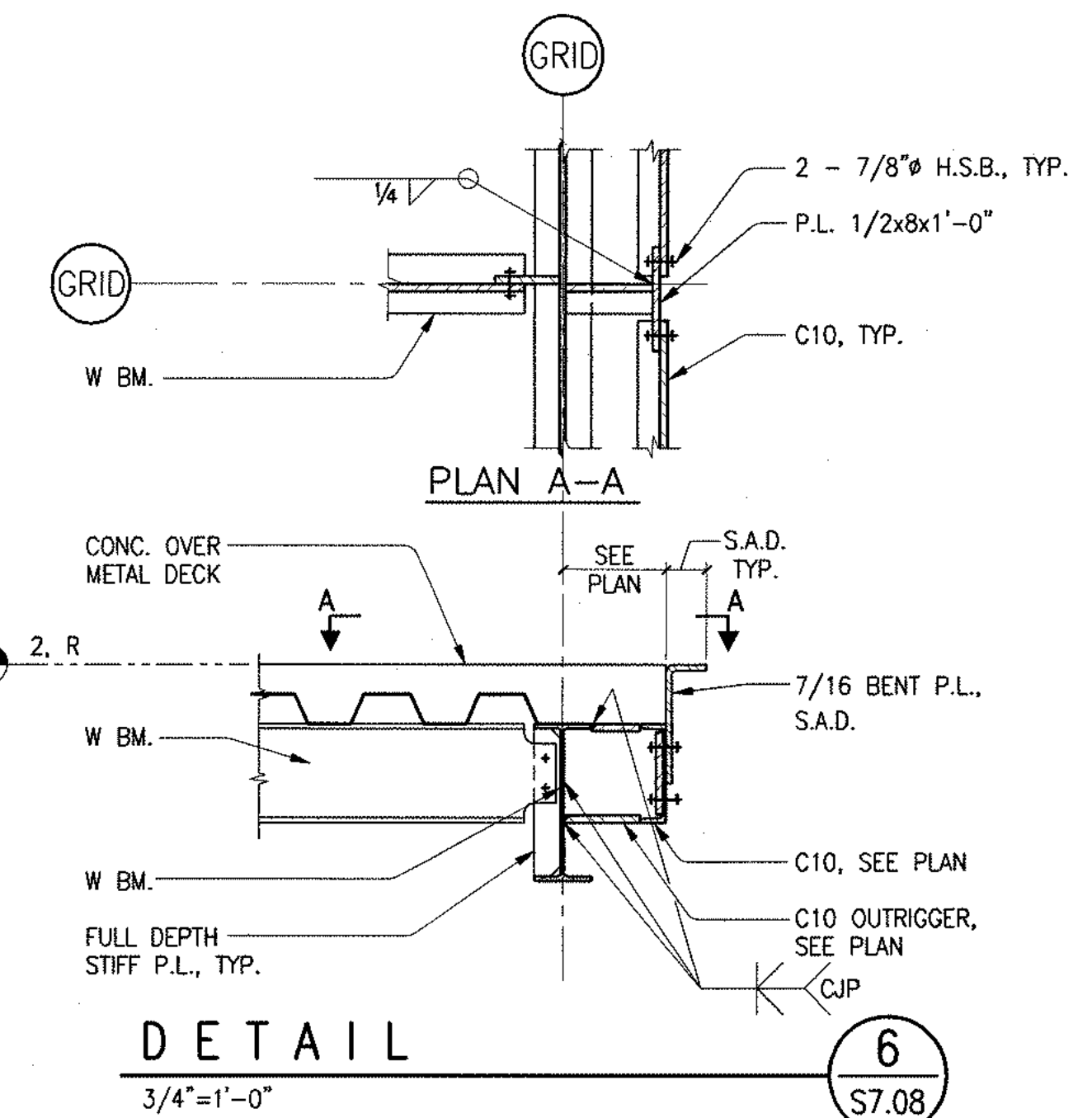
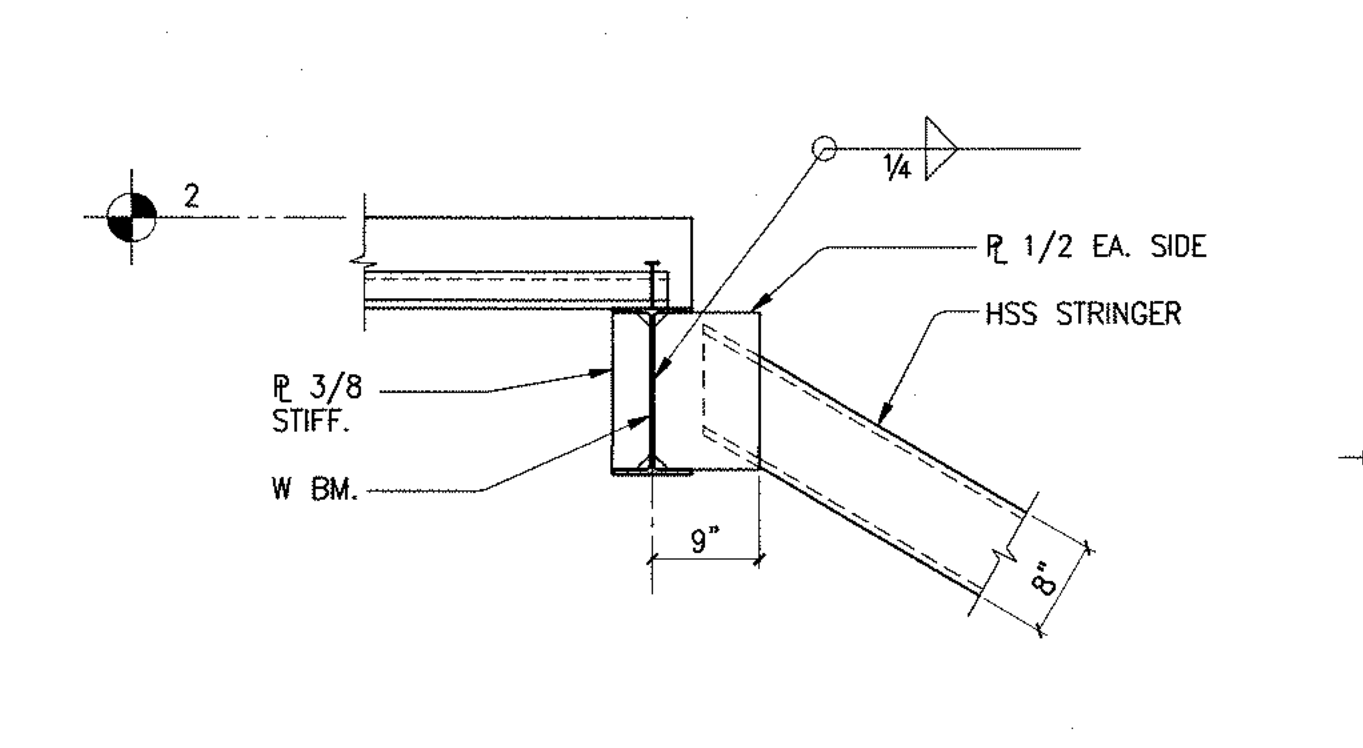
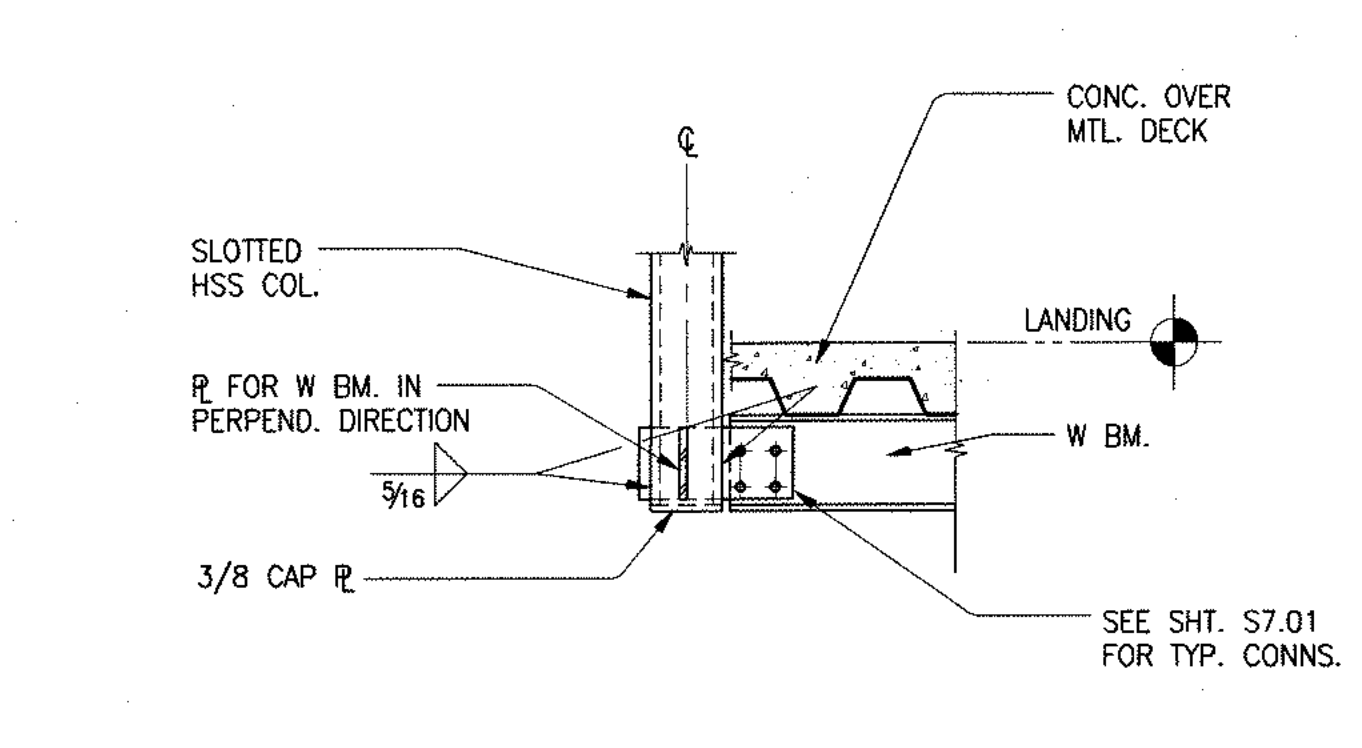
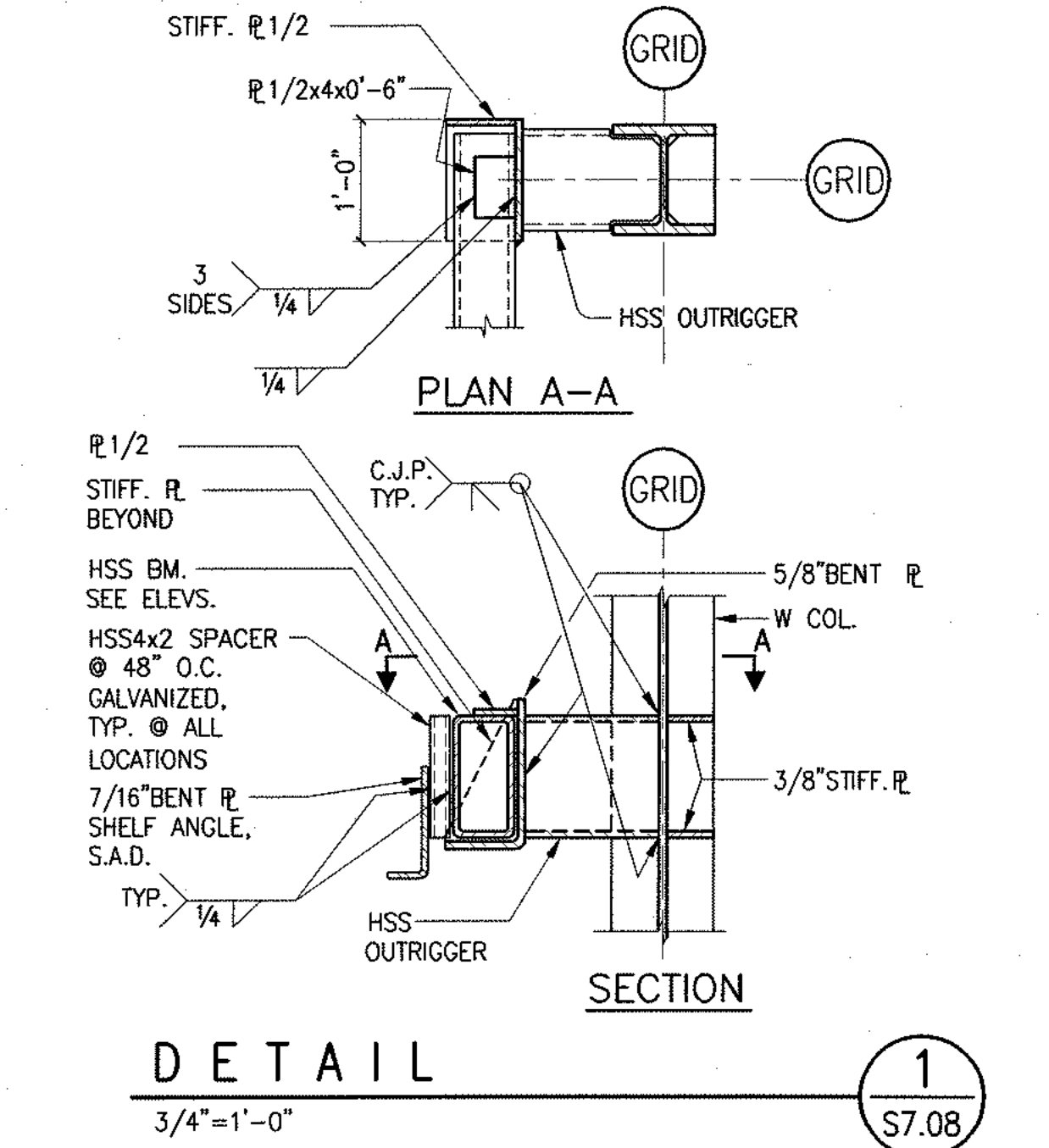
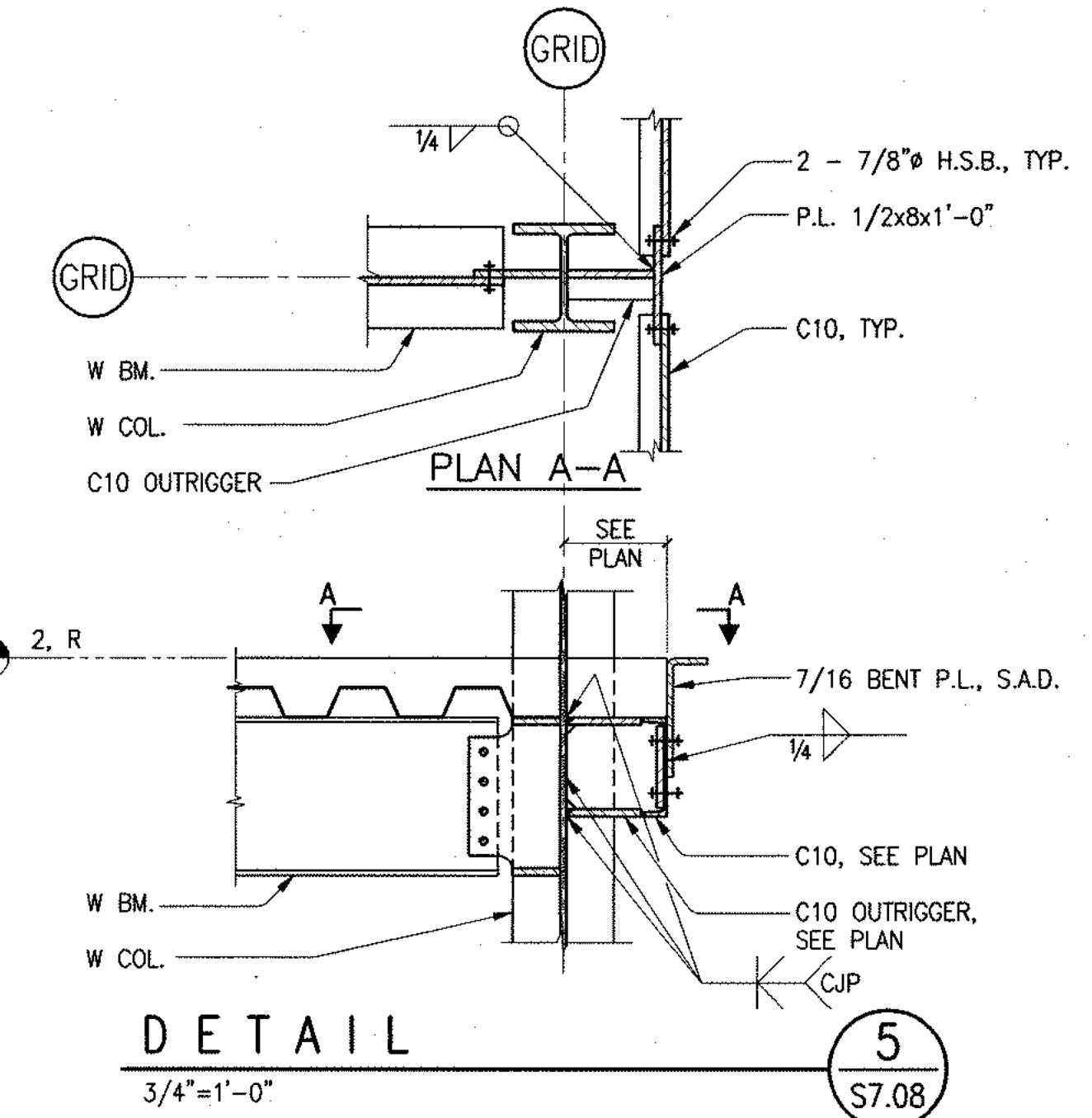
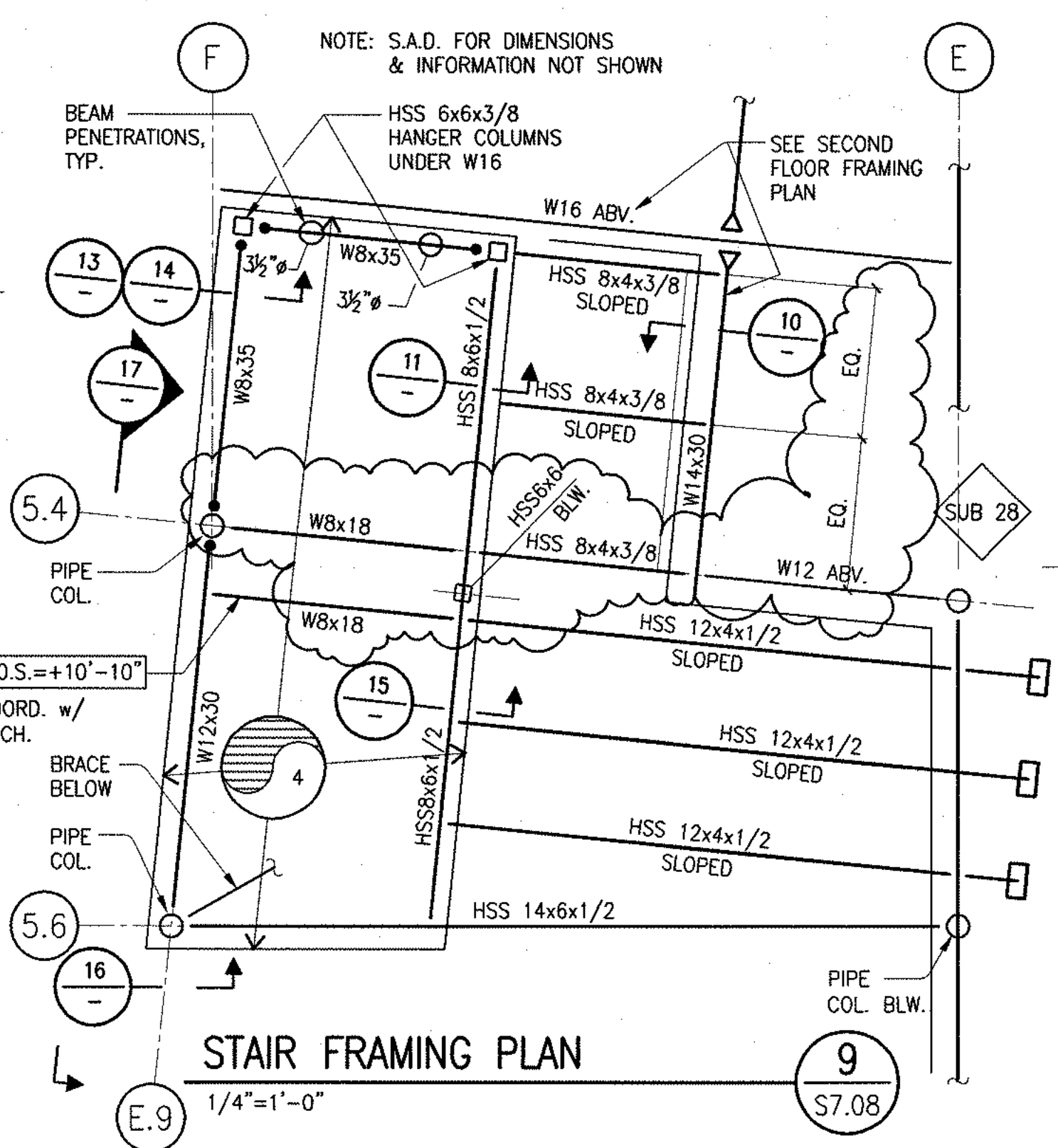
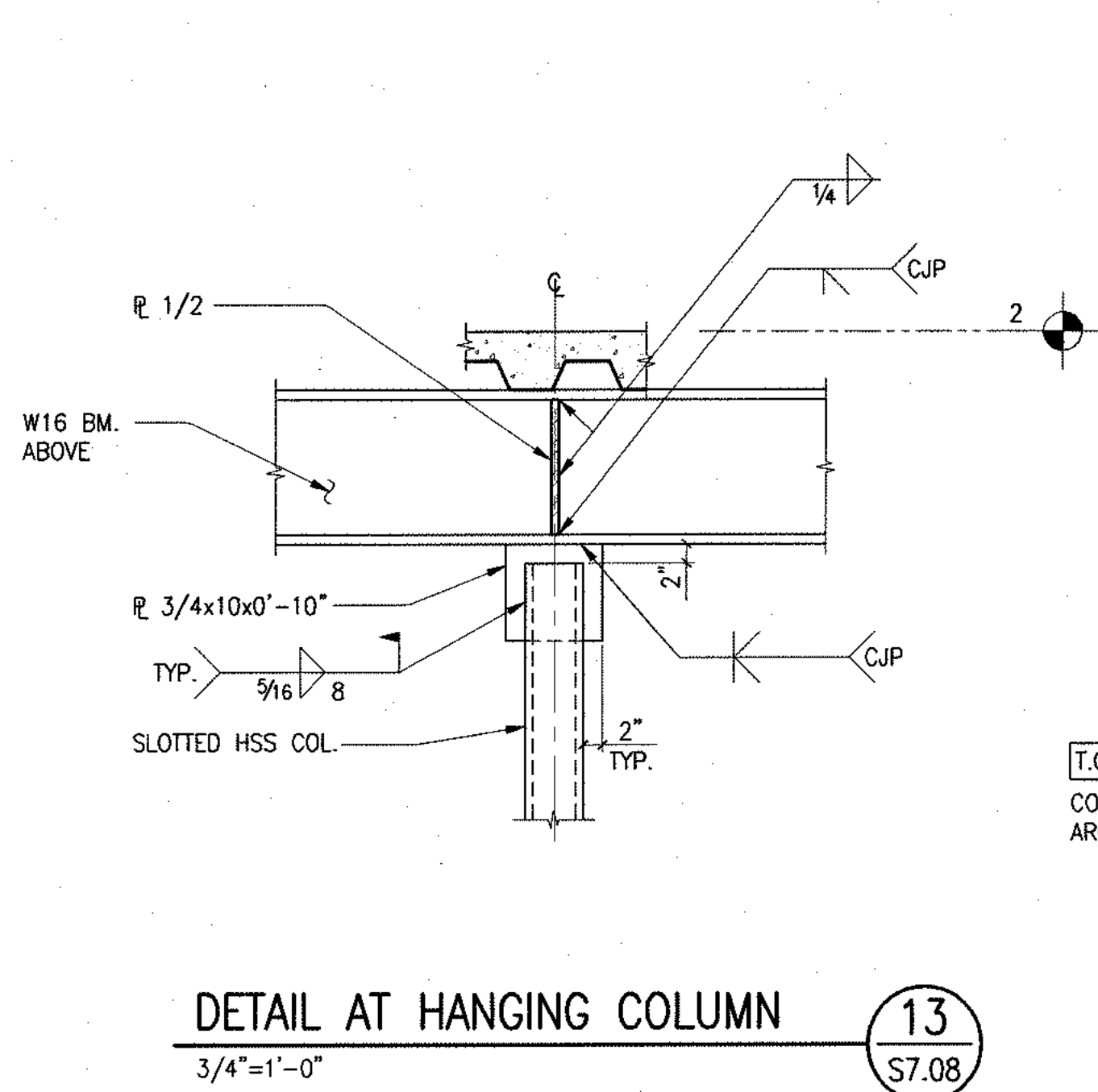
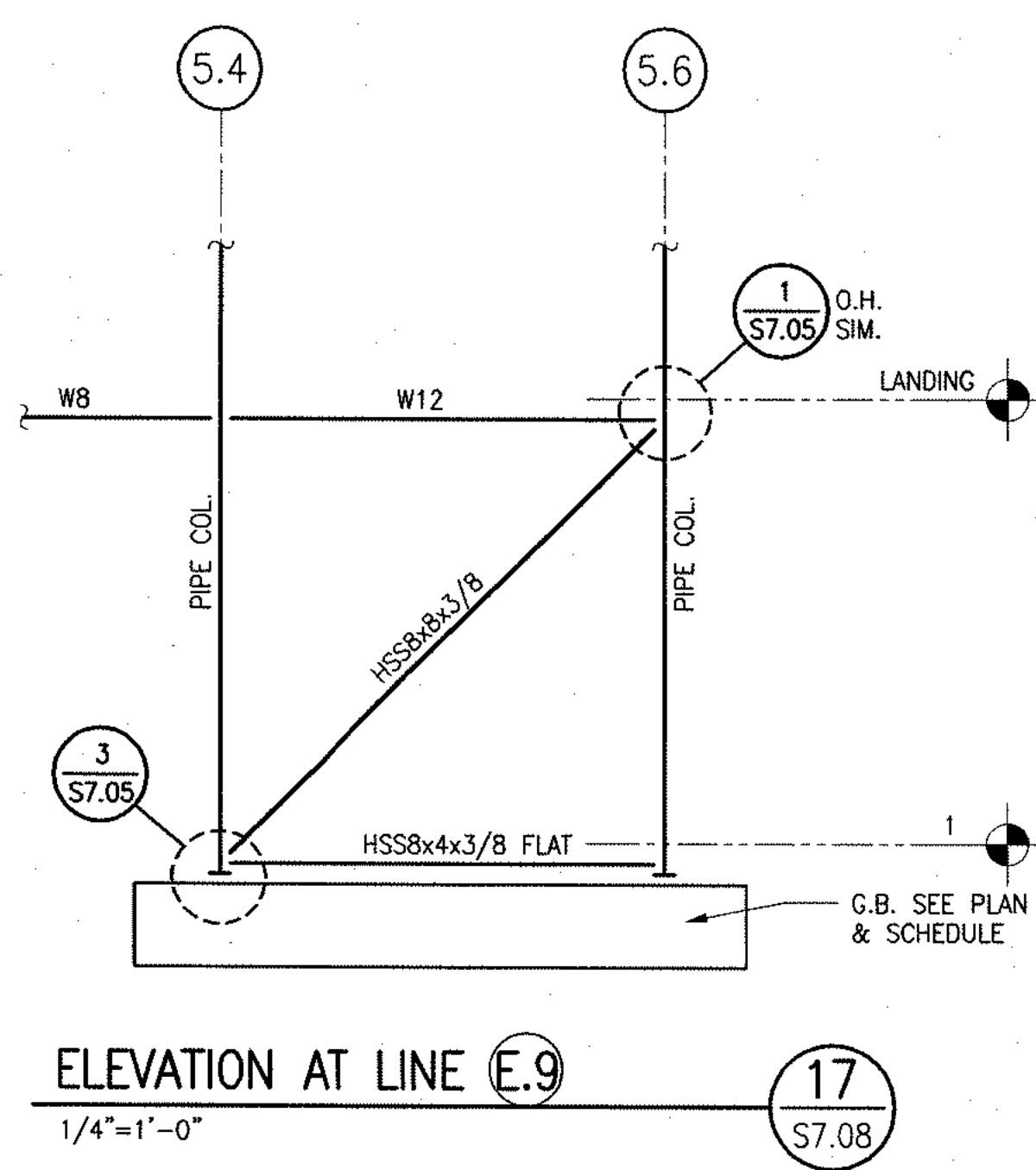
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916.929.9290 T
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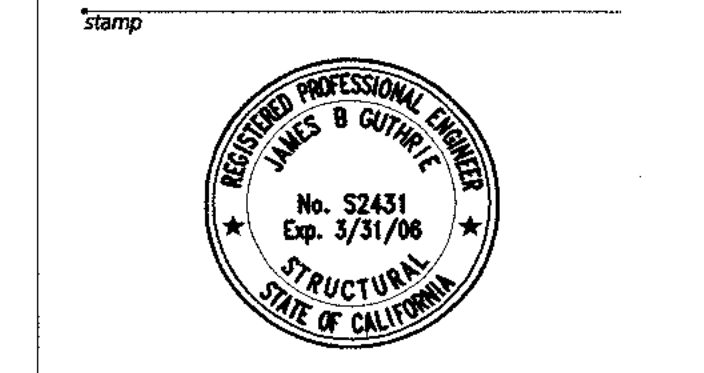
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415.837.0800 F

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Suite 450
San Francisco, CA 94104
415.398.3833 T
415.433.5311 F

Architectural
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415.495.4085 T
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Suite 203
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408.432.7235 F

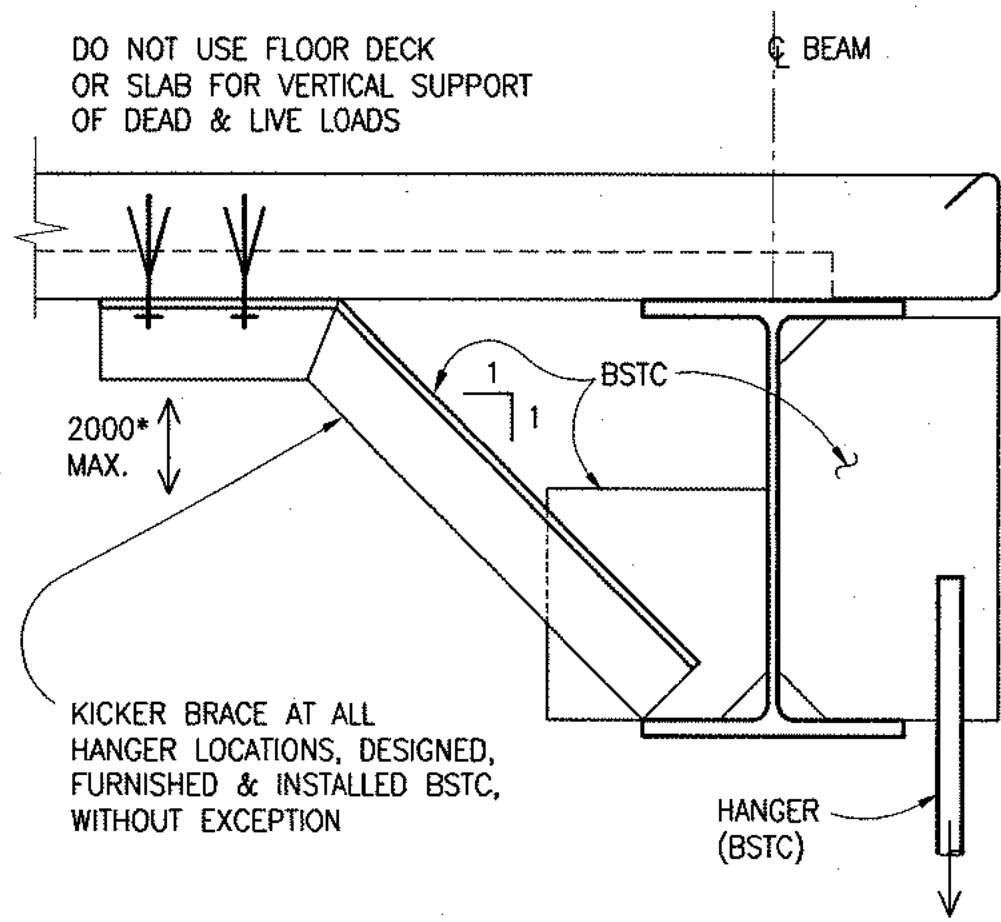
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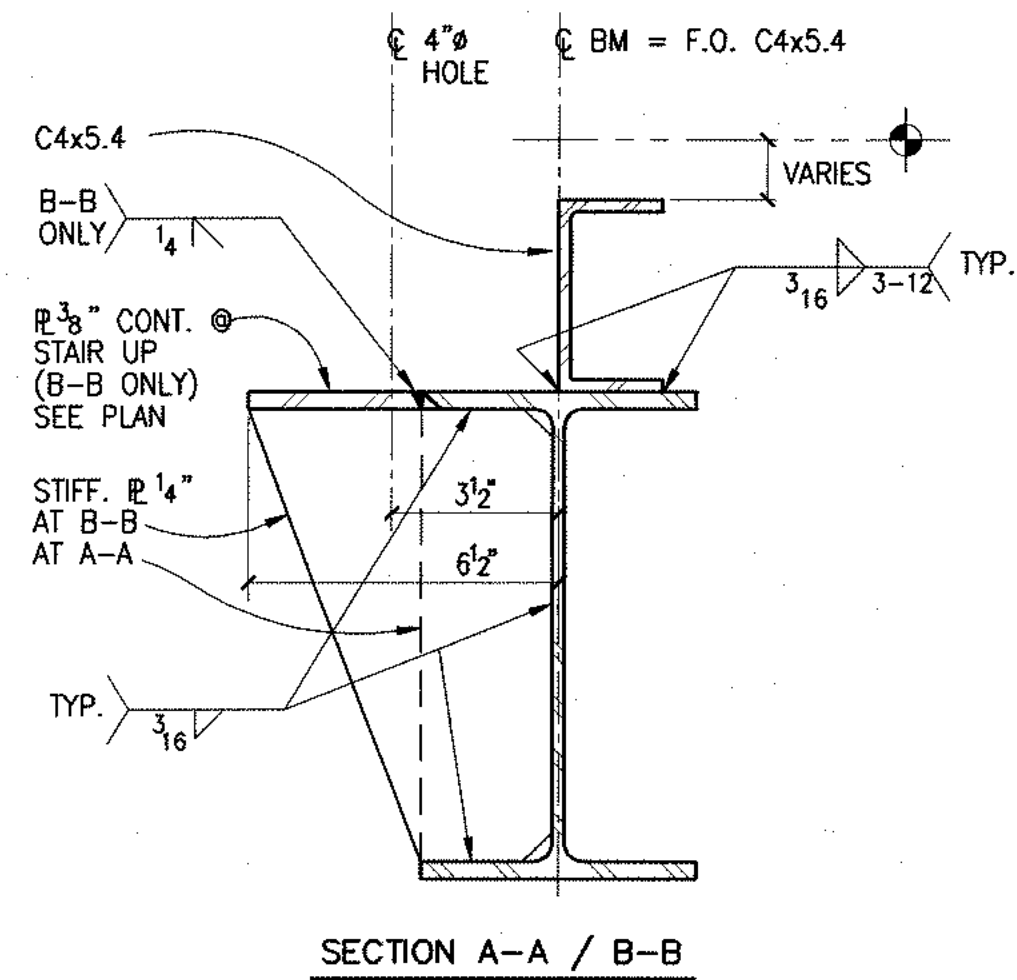
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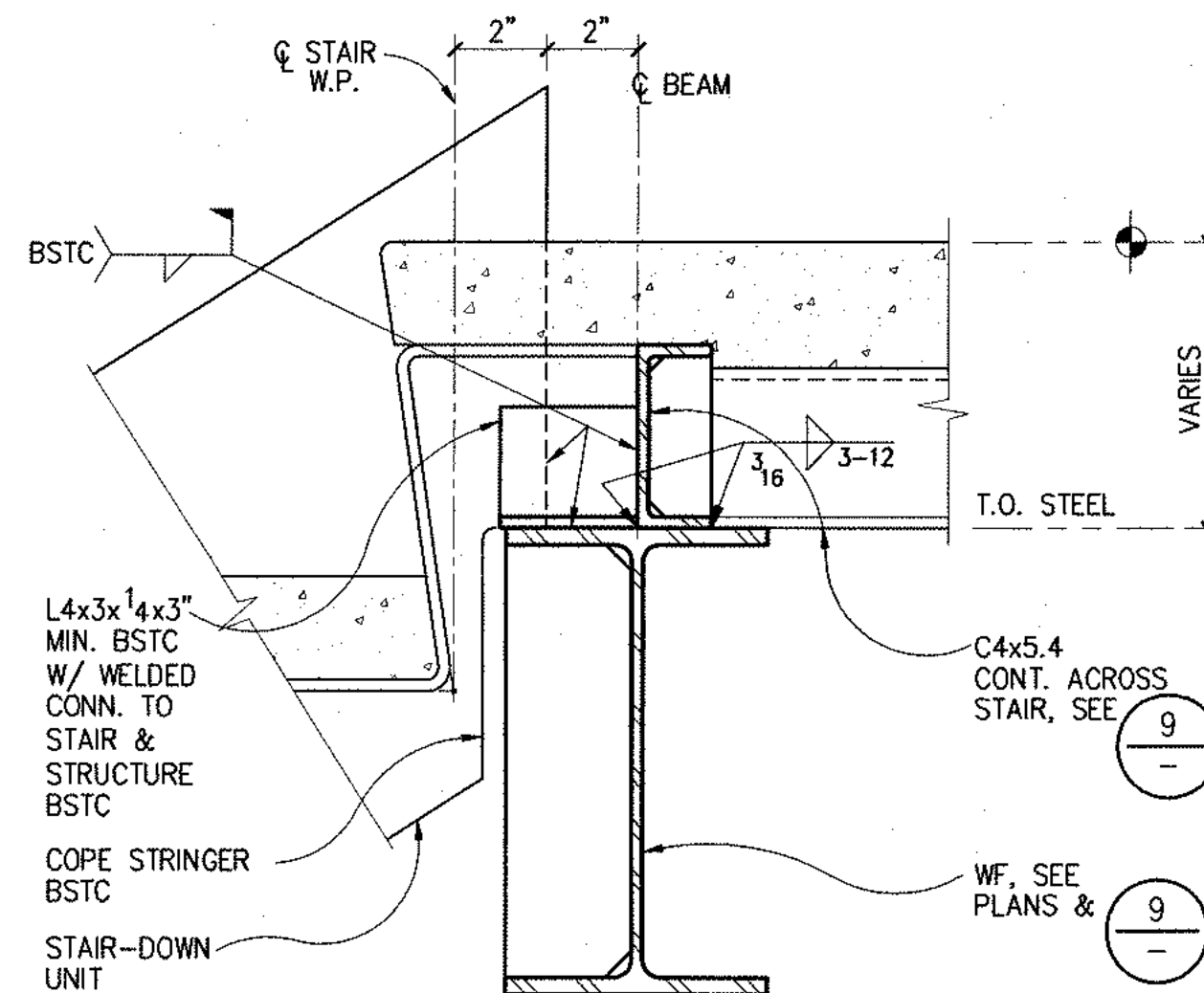
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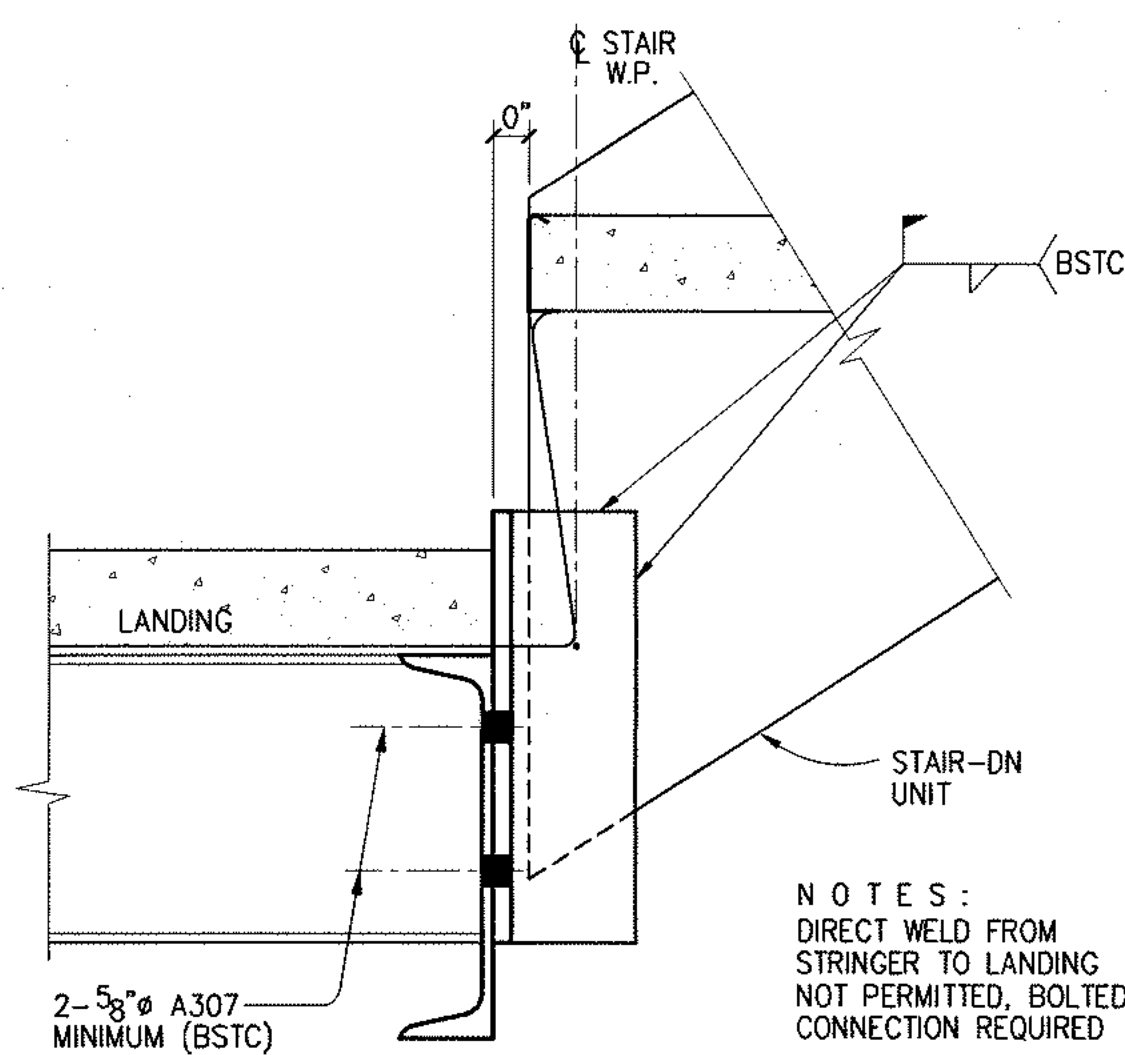
BEAM KICKER AT STAIR HANGER 17
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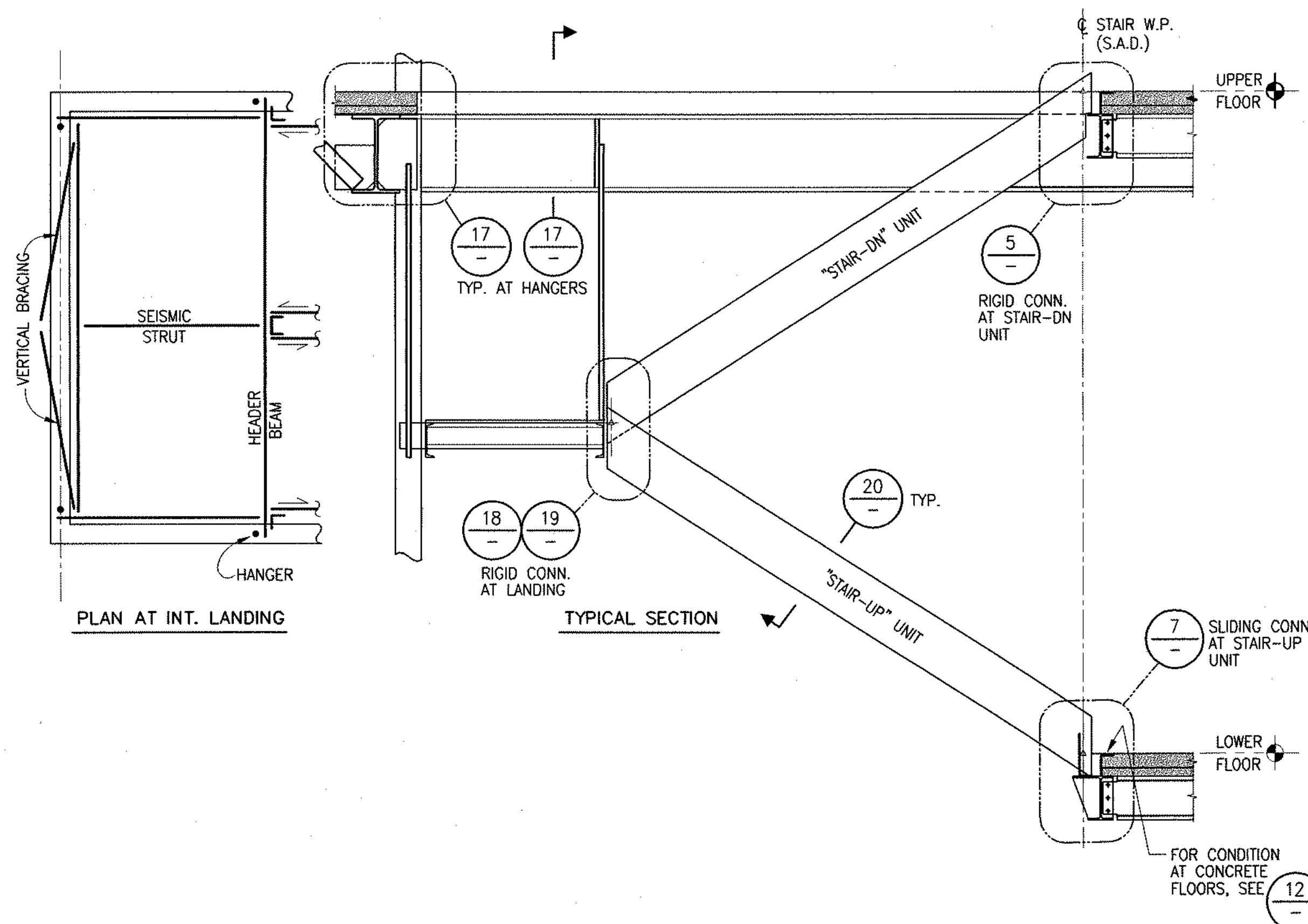
DETAIL AT FLOOR BEAM SUPPORTING PREFABRICATED METAL STAIR 18
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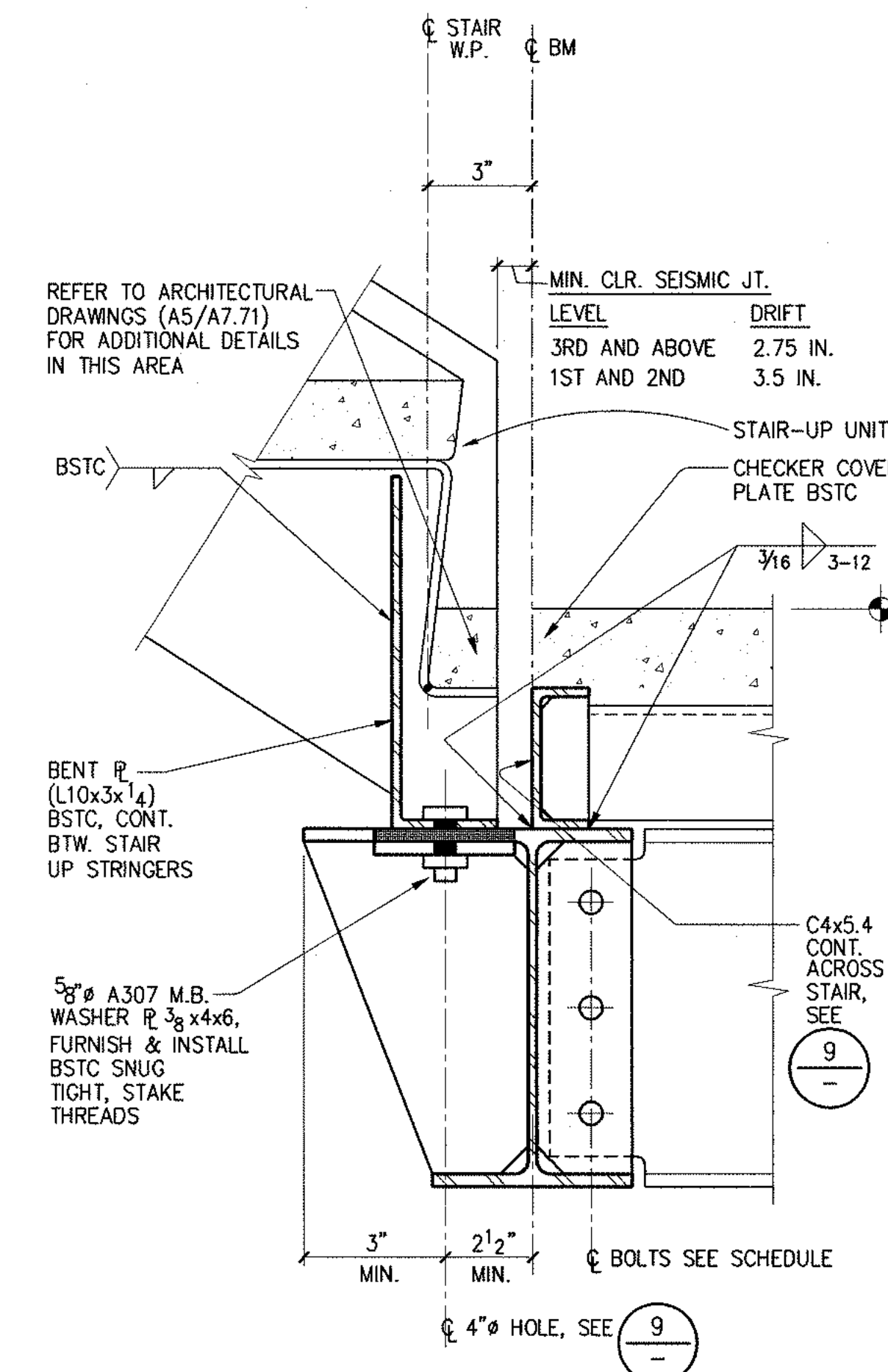
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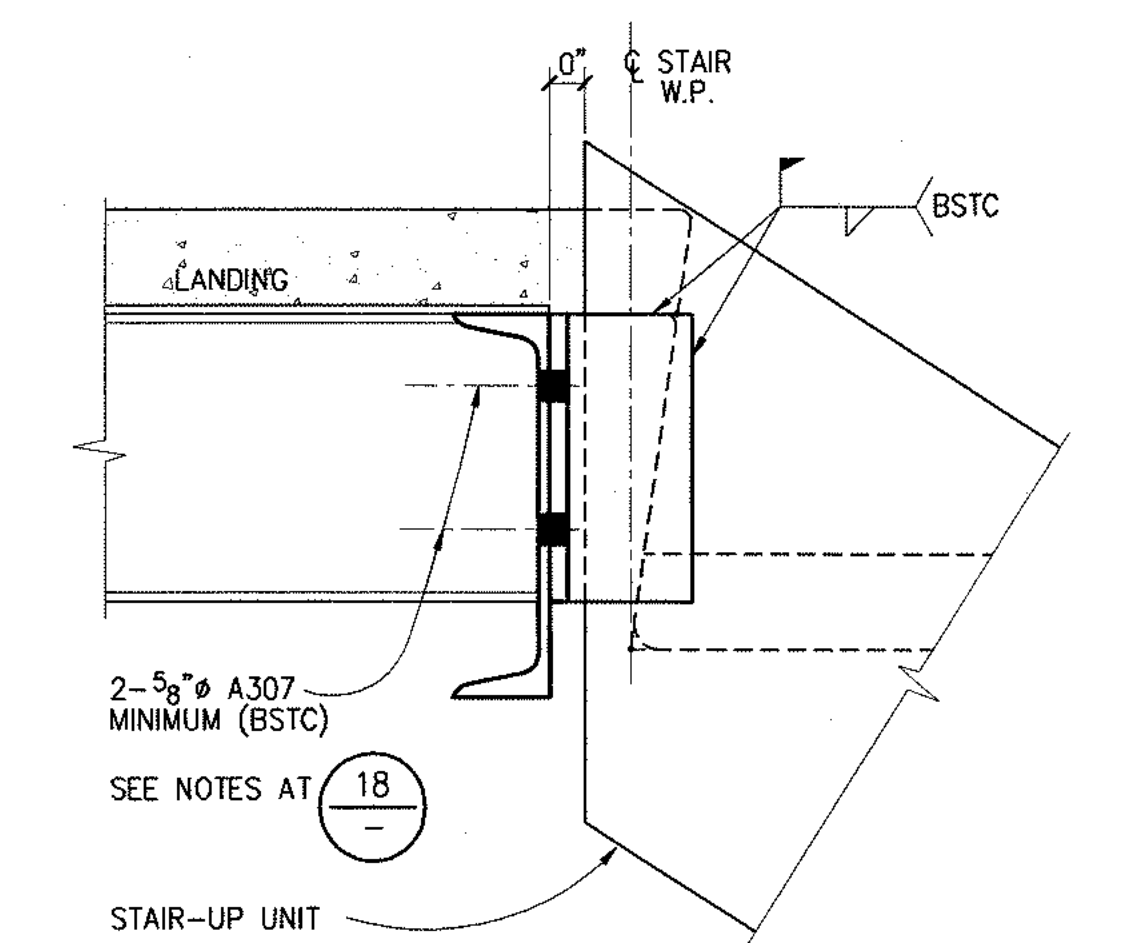
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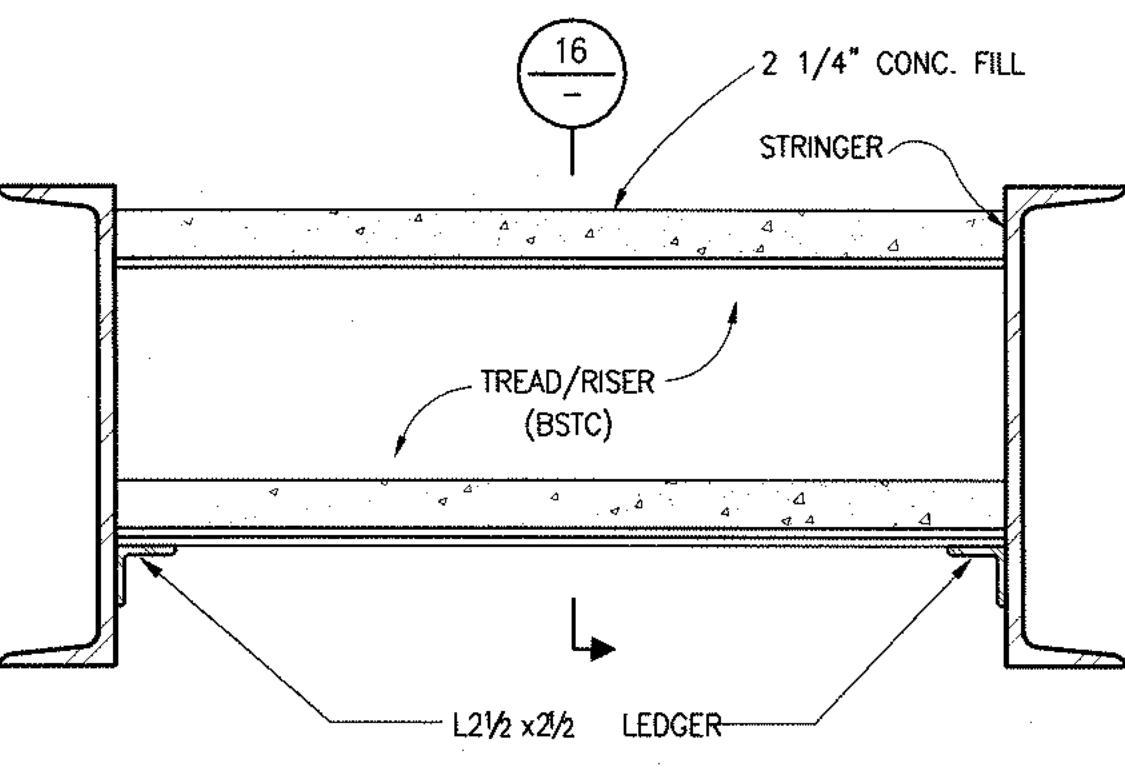
TYPICAL PREFABRICATED METAL STAIR 21
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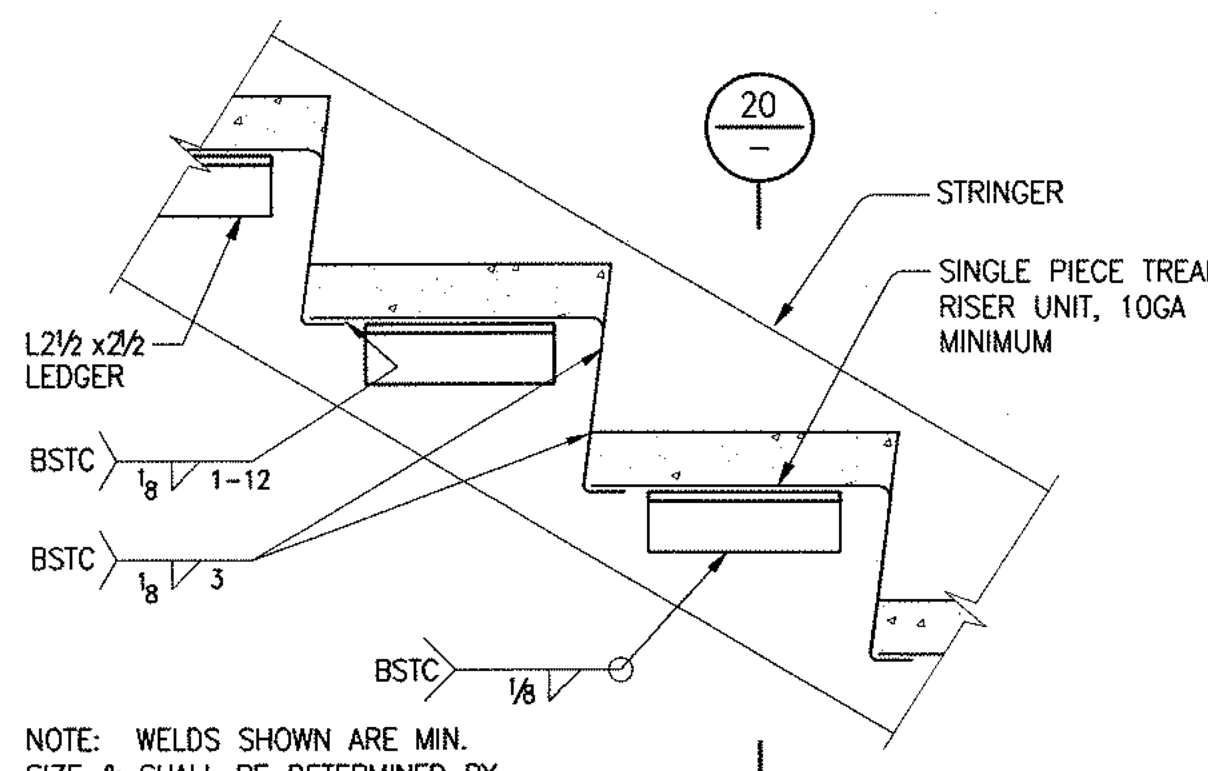
\"STAIR-UP\" AT FLOOR MINIMUM CONNECTION 22
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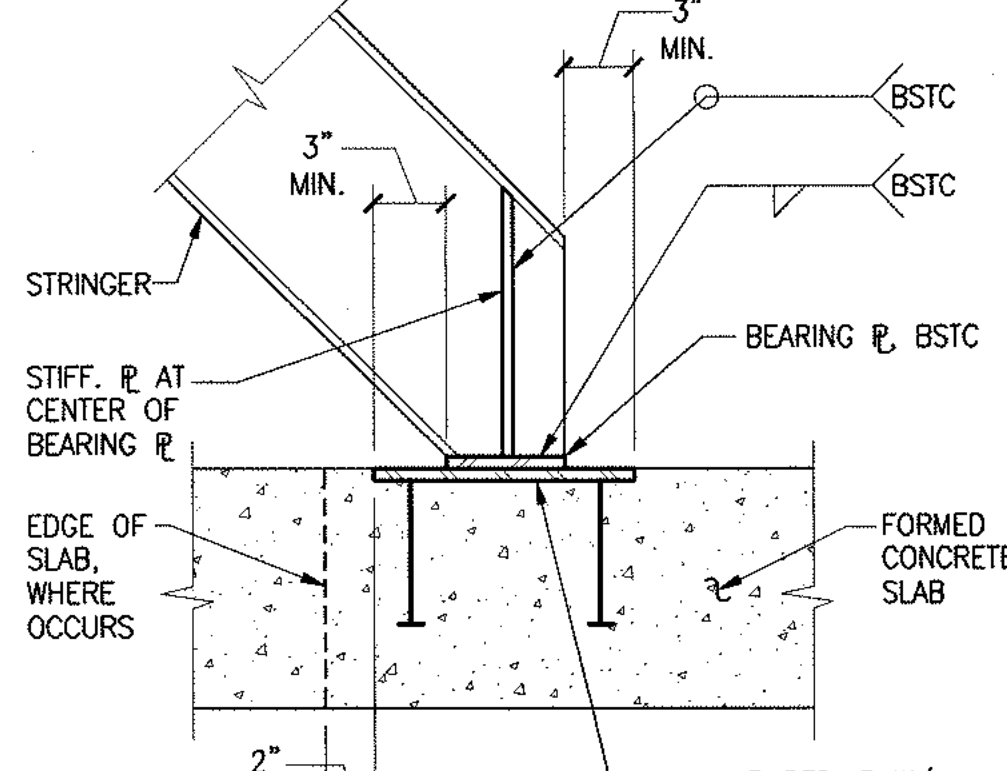
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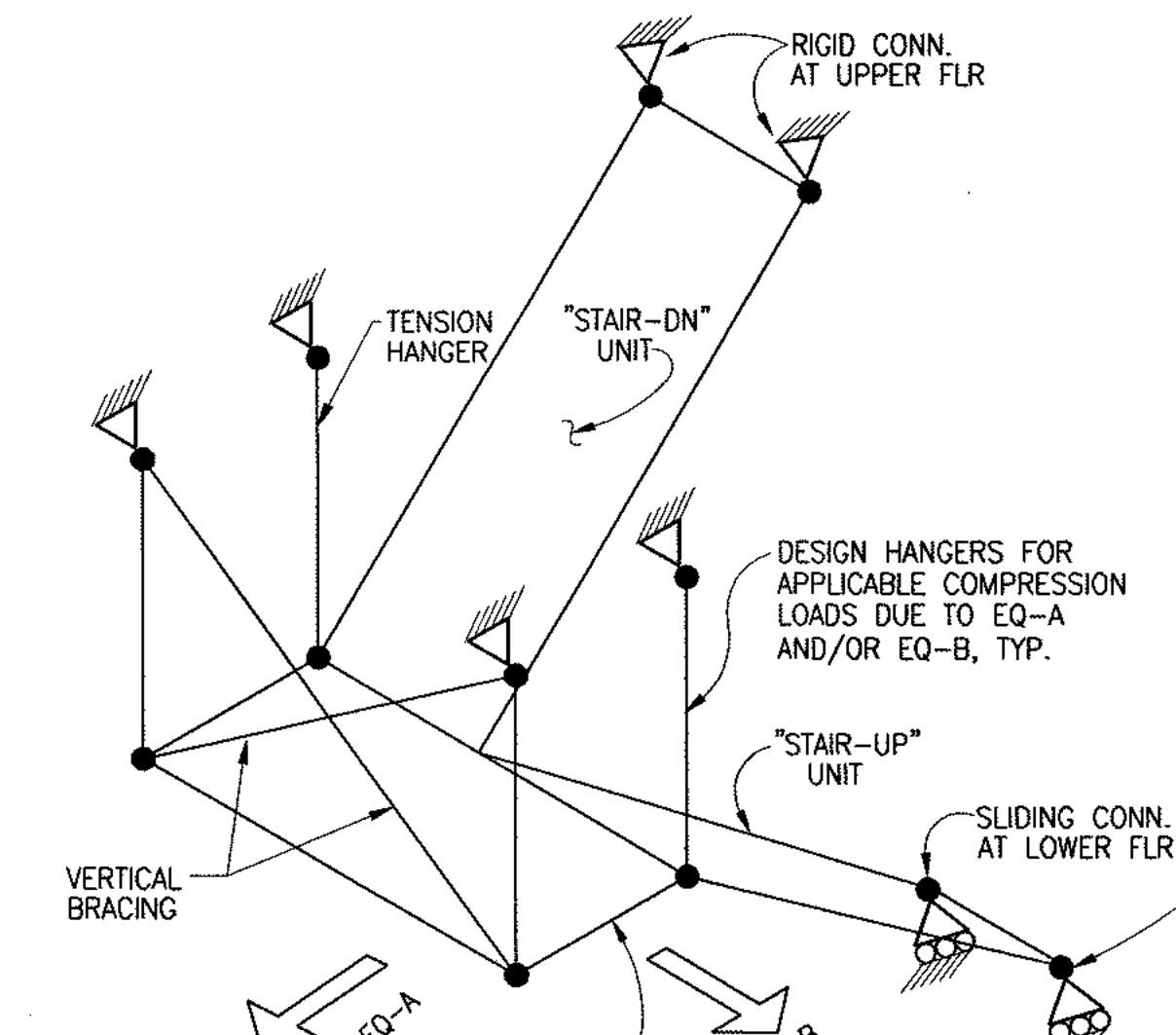
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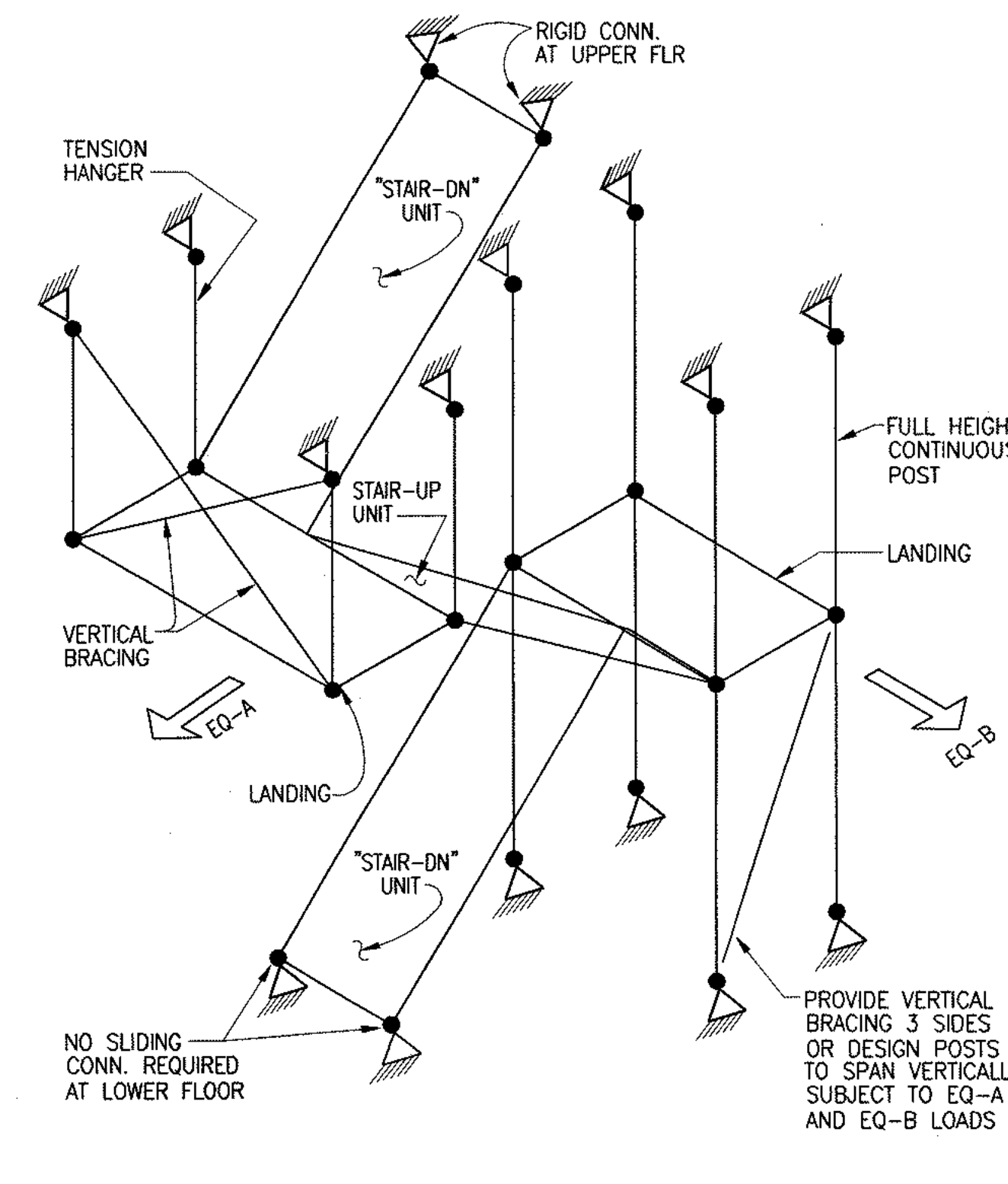
TYPICAL TREAD/RISER FABRICATION AND MINIMUM CONNECTION 25
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\"STAIR-UP\" AT CONCRETE FLOOR MINIMUM CONNECTION 26
NO SCALE S7.09



ISOMETRIC CONCEPT 27
NO SCALE S7.09



ISOMETRIC CONCEPT 28
NO SCALE S7.09

STAIR NOTES:

1. THE DESIGN OF METAL STAIRS SHALL BE BY THE CONTRACTOR. REFER TO REQUIREMENTS OF THIS DRAWING, TO THE ARCHITECTURAL DRAWINGS, AND TO THE SPECIFICATIONS. WHERE THIS DRAWING IMPOSES MORE STRINGENT STRUCTURAL DESIGN REQUIREMENTS THAN THE ARCHITECTURAL DRAWINGS, THIS DRAWING SHALL GOVERN.
2. WHERE THE DETAILS INDICATE "B5TC" (BY STAIR TRADE CONTRACTOR), STAIR TRADE CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL.
3. ALL PRIMARY STRUCTURAL STEEL FRAMING CONSIDERED AS HAVING NO (ZERO) TORSIONAL CAPACITY SHALL BE AND NO (ZERO) CAPACITY FOR LATERAL LOADS APPLIED TRANSVERSELY TO UNBRACED FLANGES OF BEAMS. ANY BEAM FLANGE THAT IS NOT SECURED TO THE FLOOR SLAB BY WELDED STUDS SHALL BE CONSIDERED UNBRACED. UNLESS THE DRAWINGS INDICATE OTHERWISE, WHERE ANY STAIR CONNECTION IMPOSES TORSIONAL LOADS OR LATERAL LOADS TO UNBRACED FLANGES OF BEAMS, COMPLETE SECONDARY STEEL BRACING OF THE SUPPORTING STRUCTURE SHALL BE DESIGNED AND PROVIDED BY THE STAIR TRADE CONTRACTOR TO RESIST TORSIONAL OR LATERAL FORCES.
4. WHERE ANY CONNECTION OR BRACKET IMPOSES MORE THAN 1 KSI OF LOCAL BENDING STRESS INTO THE FLANGES OR WEB OF A STRUCTURAL STEEL BEAM OR COLUMN, STAIR TRADE CONTRACTOR SHALL PROVIDE STIFFENERS AND OTHER PLATES AS REQUIRED TO REDUCE THE LOCAL FLEXURAL STRESS TO AT OR BELOW THE ABOVE THRESHOLD.
5. WHERE ANY CONNECTION OR BRACKET IMPOSES AN AXIAL STRESS OR FLEXURAL STRESS IN EXCESS OF THE CRITICAL LOCAL BUCKLING LOAD FOR AN UNSTIFFENED FLANGE OR WEB OF A STRUCTURAL STEEL BEAM OR COLUMN, TRADE CONTRACTOR SHALL PROVIDE BEARING STIFFENERS AND/OR OTHER REINFORCEMENTS IN ACCORDANCE WITH THE PROVISIONS OF THE AISC.
6. STAIRS SHALL BE DESIGNED AND BRACED FOR SEISMIC LOADS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE DESIGN CRITERIA LISTED BELOW.
7. STAIRS SHALL BE DESIGNED AND DETAILED SUCH THAT NO INTERNAL FORCES OR REACTIONS ARE CAUSED BY THE DISPLACEMENT OF ONE FLOOR RELATIVE TO THE FLOOR ABOVE OR BELOW (STORY DRIFT). SECTION 1631.2.4 OF THE 2001 CBC SHALL APPLY TO STAIR DESIGN AND DETAILING. FOR PURPOSES OF DESIGN, STAIR TRADE CONTRACTOR SHALL ASSUME STORY DRIFTS NOTED.
8. SEISMIC DESIGN CONCEPTS SHOWN ON THIS DRAWING SUGGEST AN ACCEPTABLE APPROACH. TRADE CONTRACTOR MAY SUBMIT FOR APPROVAL ALTERNATE SEISMIC DESIGN APPROACHES IN COMPLIANCE WITH THESE REQUIREMENTS.
9. FRAMING FOR INTERMEDIATE STAIR LANDINGS SHALL NOT EXCEED THE SIZES SHOWN IN THE ARCHITECTURAL DRAWINGS UNLESS APPROVED BY THE ARCHITECT.
10. T.O.S. ELEVATION OF STAIR SUPPORT BEAM PER ARCHITECTURAL PROFILE. SEE INFO. ON ARCH. DRAWINGS TO DETERMINE CORRECT T.O.S. ELEVATION.
11. FOR STAIR SUPPORT BEAM COORDINATE PROPER STAIR SUPPORT ELEVATION WITH STAIR MANUFACTURER.

DESIGN CRITERIA:

1. DESIGN STAIRS PER SPECIFICATIONS AND THE FOLLOWING:
LIVE LOAD = 100 PSF
SEISMIC LOAD = 0.71W (2001 CBC ULTIMATE)
2. STAIR UNIT (STRINGERS & LANDING) SHALL BE BRACED TO RESIST SPECIFIED SEISMIC LOADS IN ANY LATERAL DIRECTION AND SHALL COMPLY WITH DEFORMATION COMPATIBILITY REQUIREMENTS OF GOVERNING CODE.
3. CONCEPT FOR SEISMIC DESIGN: LANDING "STAIR-UP" AND "STAIR-DN" UNIT SHALL BE BRACED BY "UPPER FLOOR" AND ARE RIGID WITH RESPECT TO "UPPER FLOOR". ENTIRE STAIR IS SEISMICALLY ISOLATED FROM "LOWER FLOOR" BY SLIDING CONNECTION AT BASE OF "STAIR-UP" UNIT, WITH FREEDOM OF MOTION IN ANY LATERAL DIRECTION.
4. CONNECTION FROM STRINGER TO LANDING FRAMING SHALL BE DESIGNED TO RESIST FORCES DUE TO INDICATED ULTIMATE LOADS.
5. DETAILS SHOWN ON THIS SHEET APPLY TO TYPICAL METAL FRAMED STAIRS WITH CHANNEL STRINGERS. OTHER STAIR TYPES PRESENT IN THIS PROJECT ARE TO BE SIMILAR IN CHARACTER.

FOR BALANCE OF REQUIREMENTS, SEE REFERENCED DETAILS AND NOTES ON DETAIL 11

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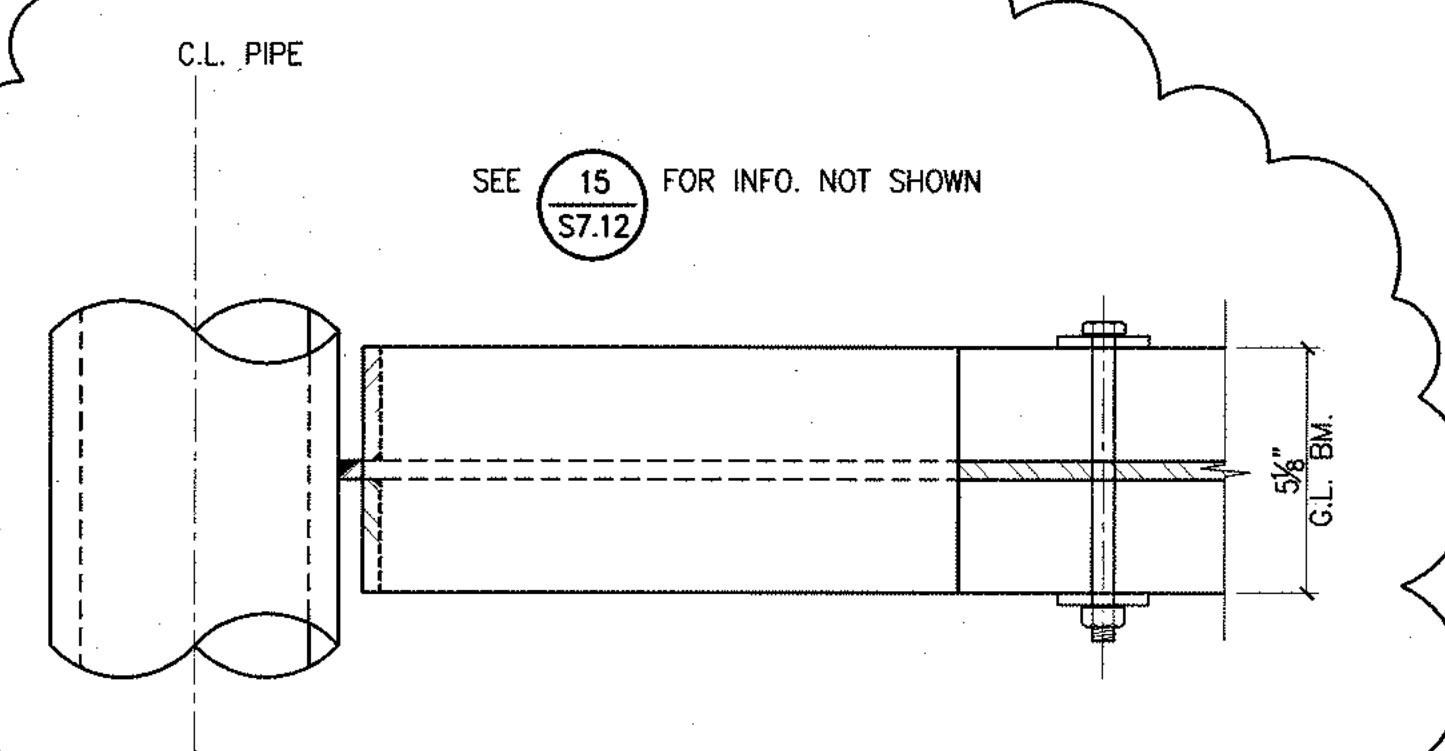
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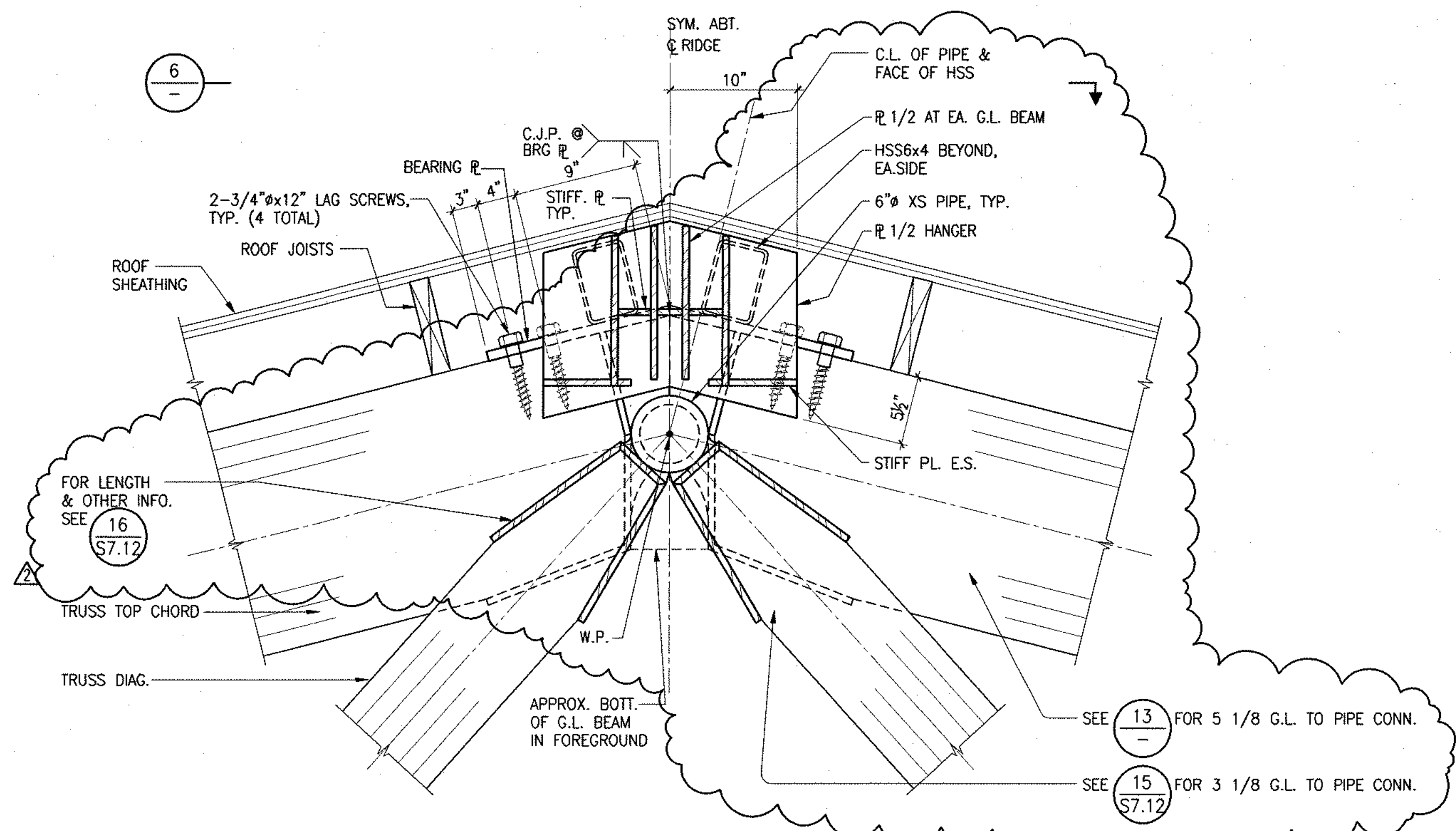
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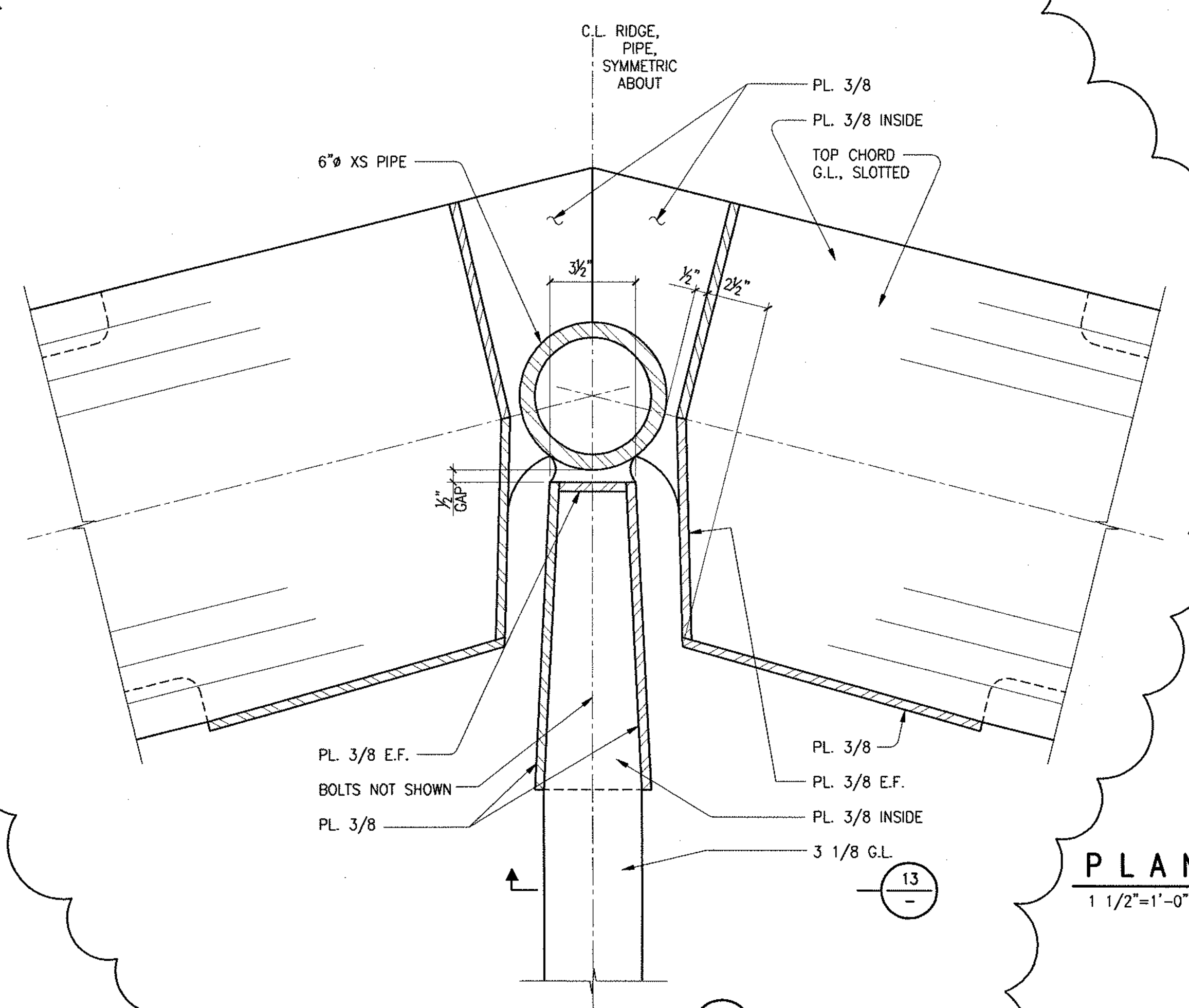
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S7.09



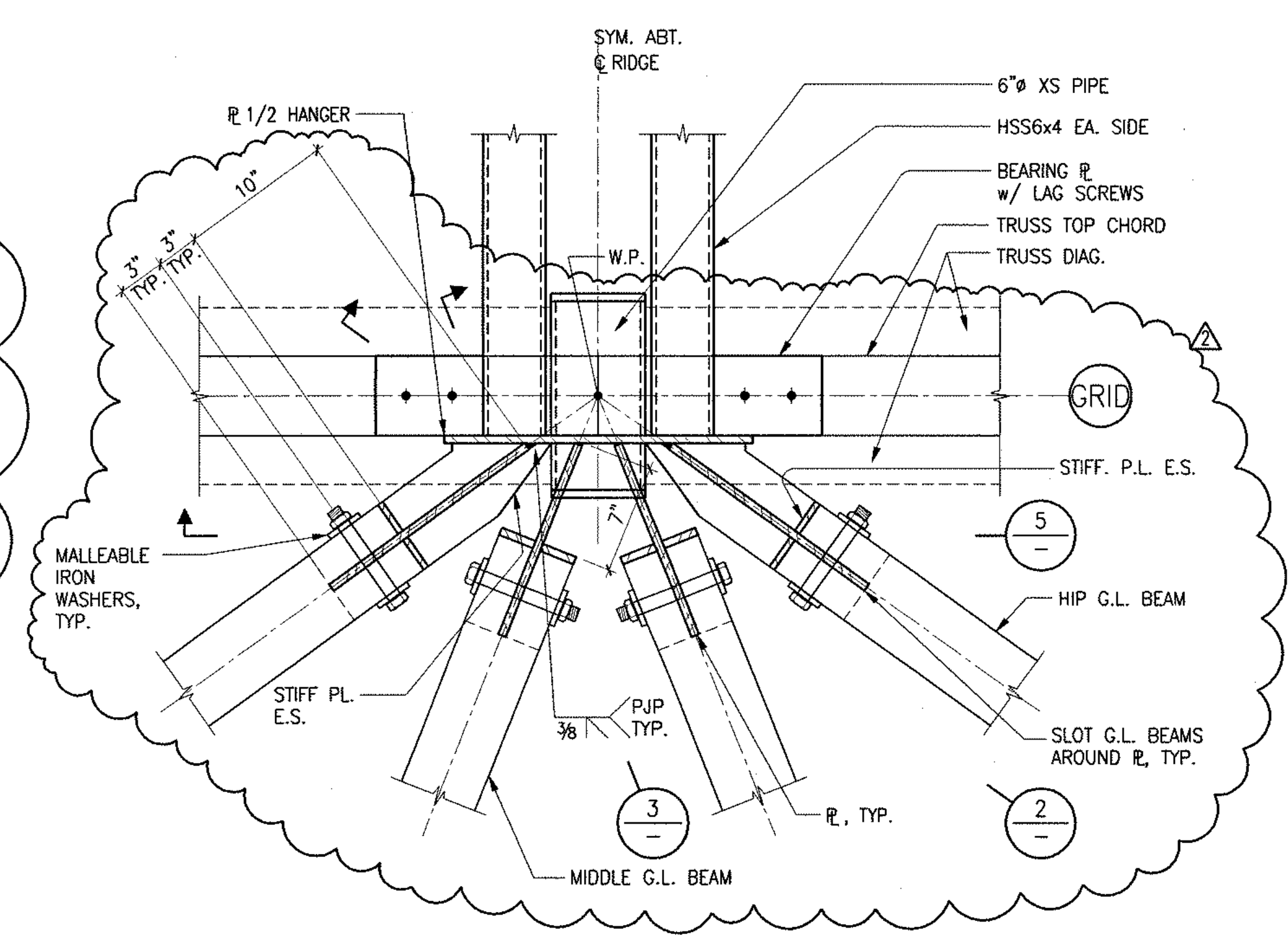
PLAN DETAIL
TYP. 5 1/8 G.L. BEAM TO PIPE
3"=1'-0" **13**
S7.11



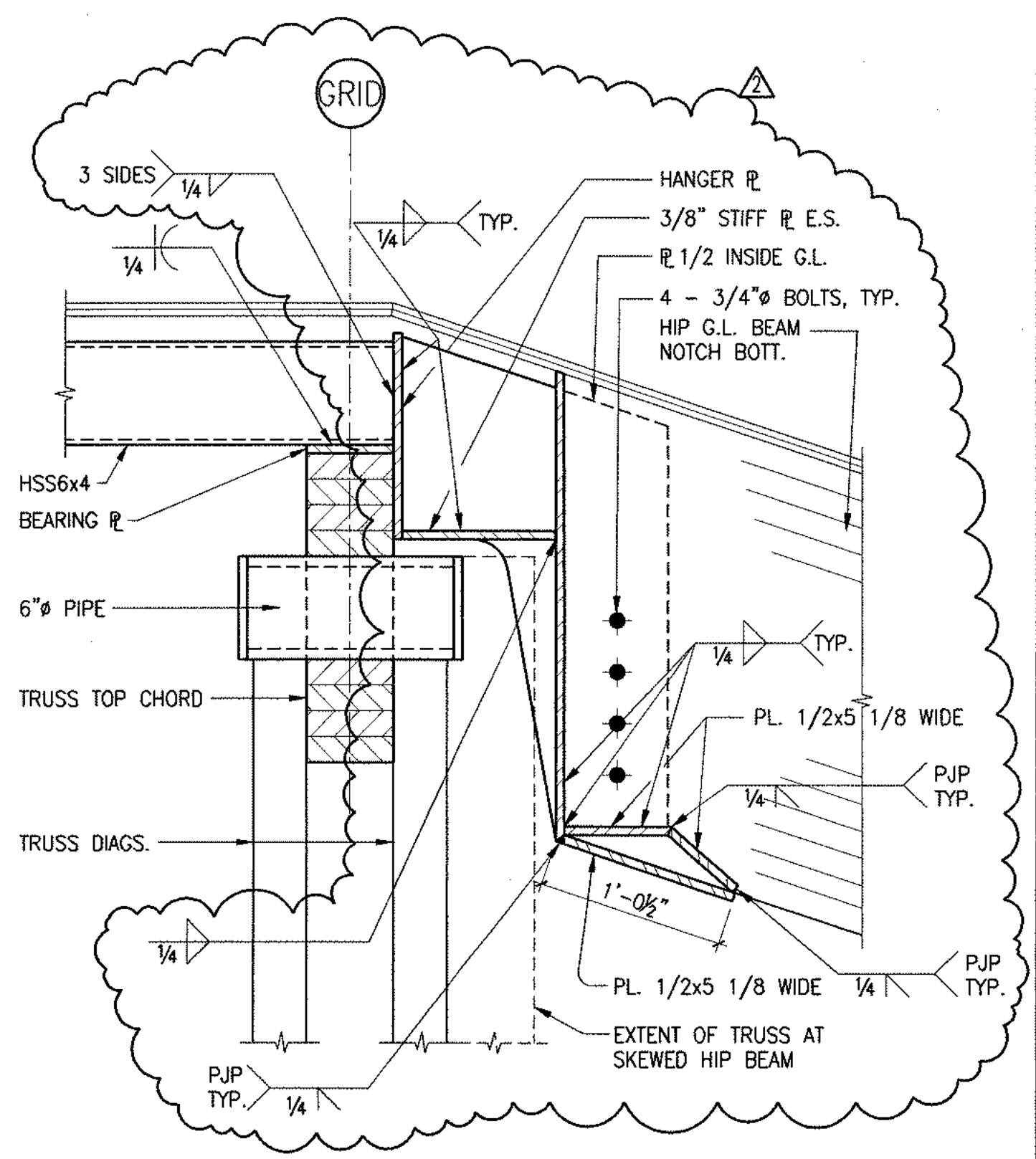
DETAIL
1 1/2"=1'-0" **5**
S7.11



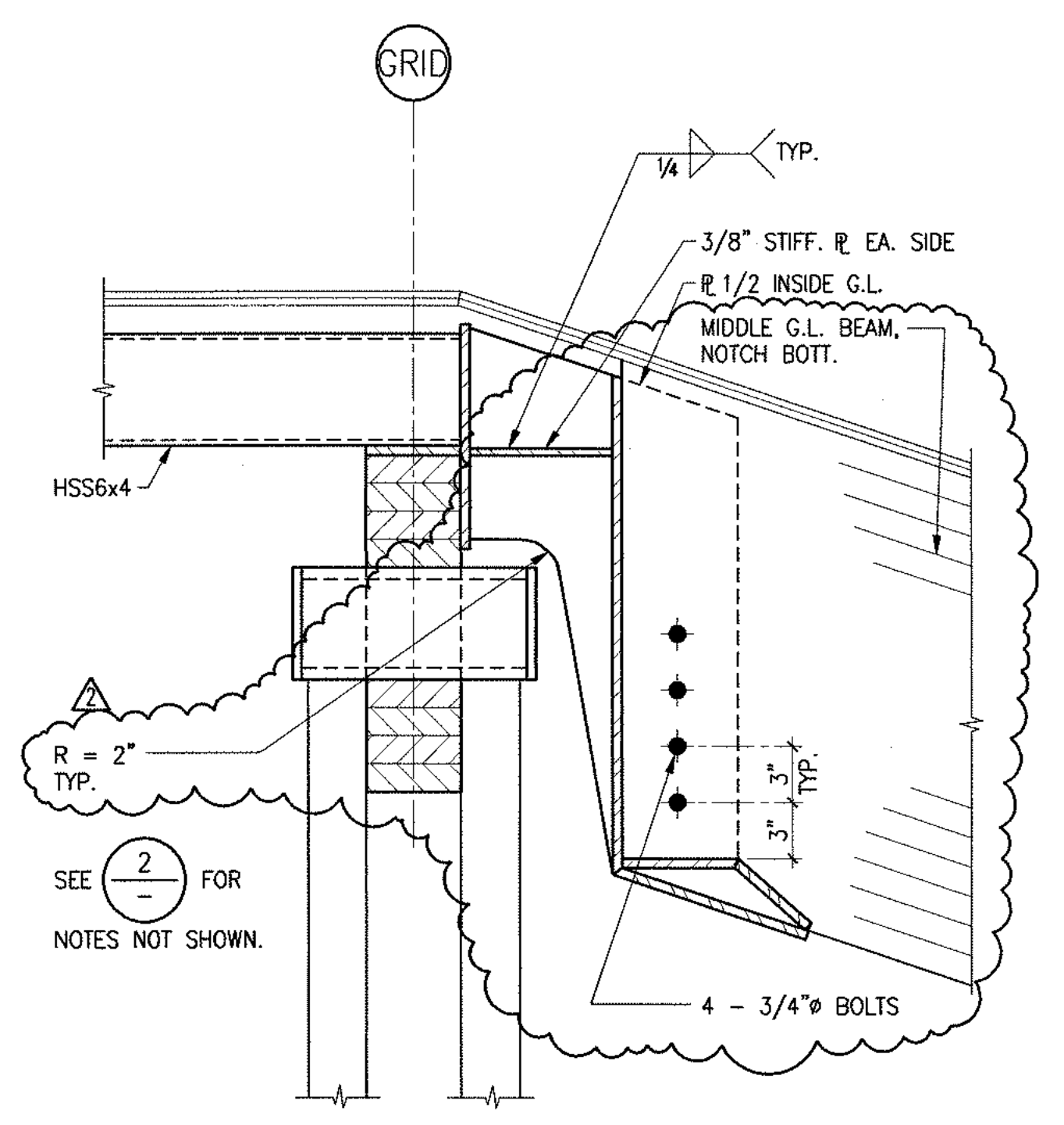
DETAIL
3"=1'-0" **15**
S7.11



PLAN DETAIL
1 1/2"=1'-0" **6**
S7.11



DETAIL
1 1/2"=1'-0" **2**
S7.11



DETAIL
1 1/2"=1'-0" **3**
S7.11

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916 929 9541 F

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San Francisco, CA 94103
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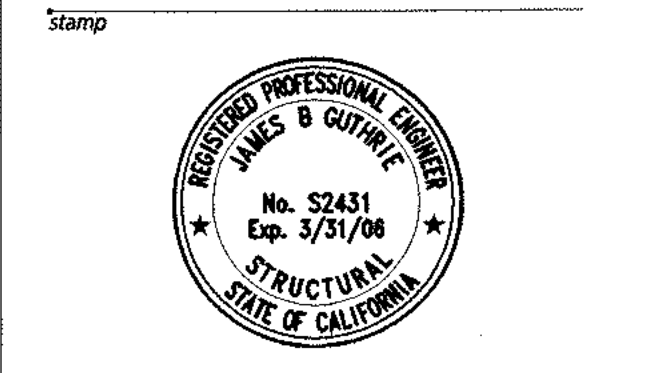
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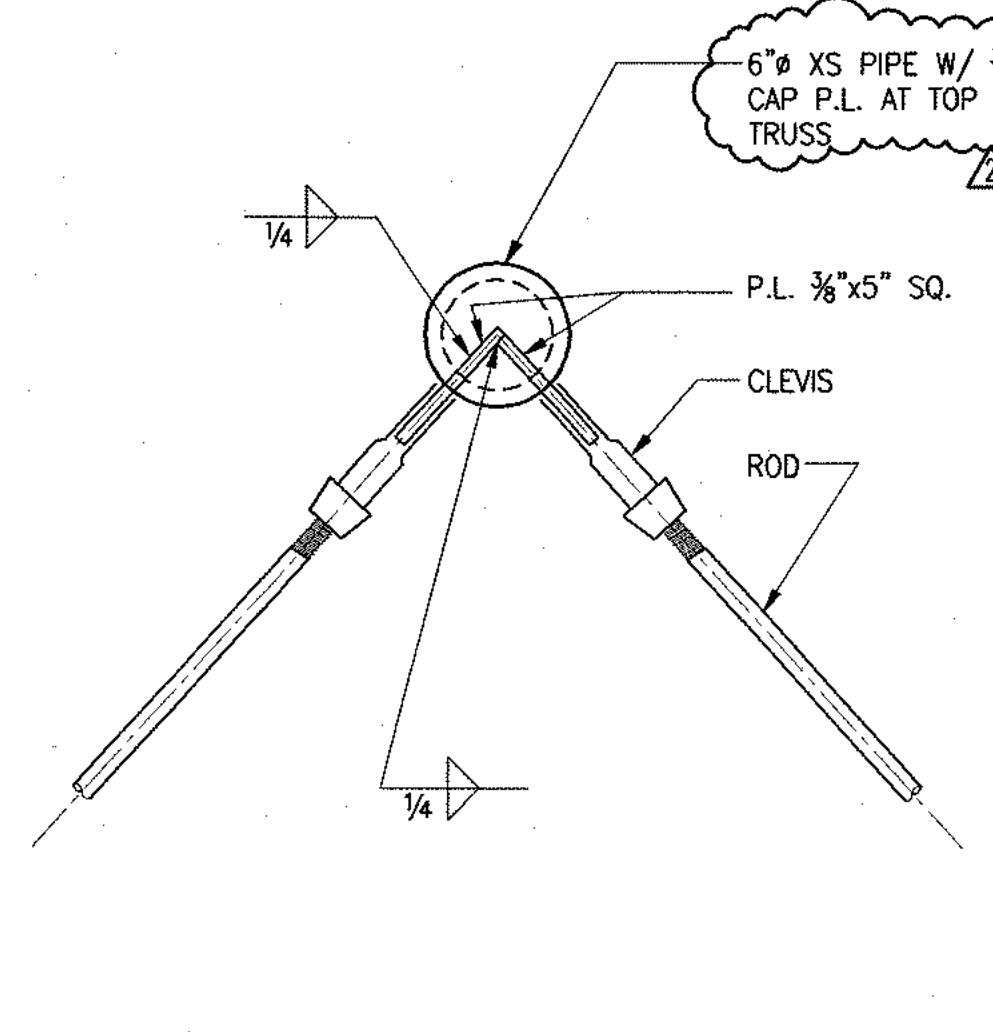
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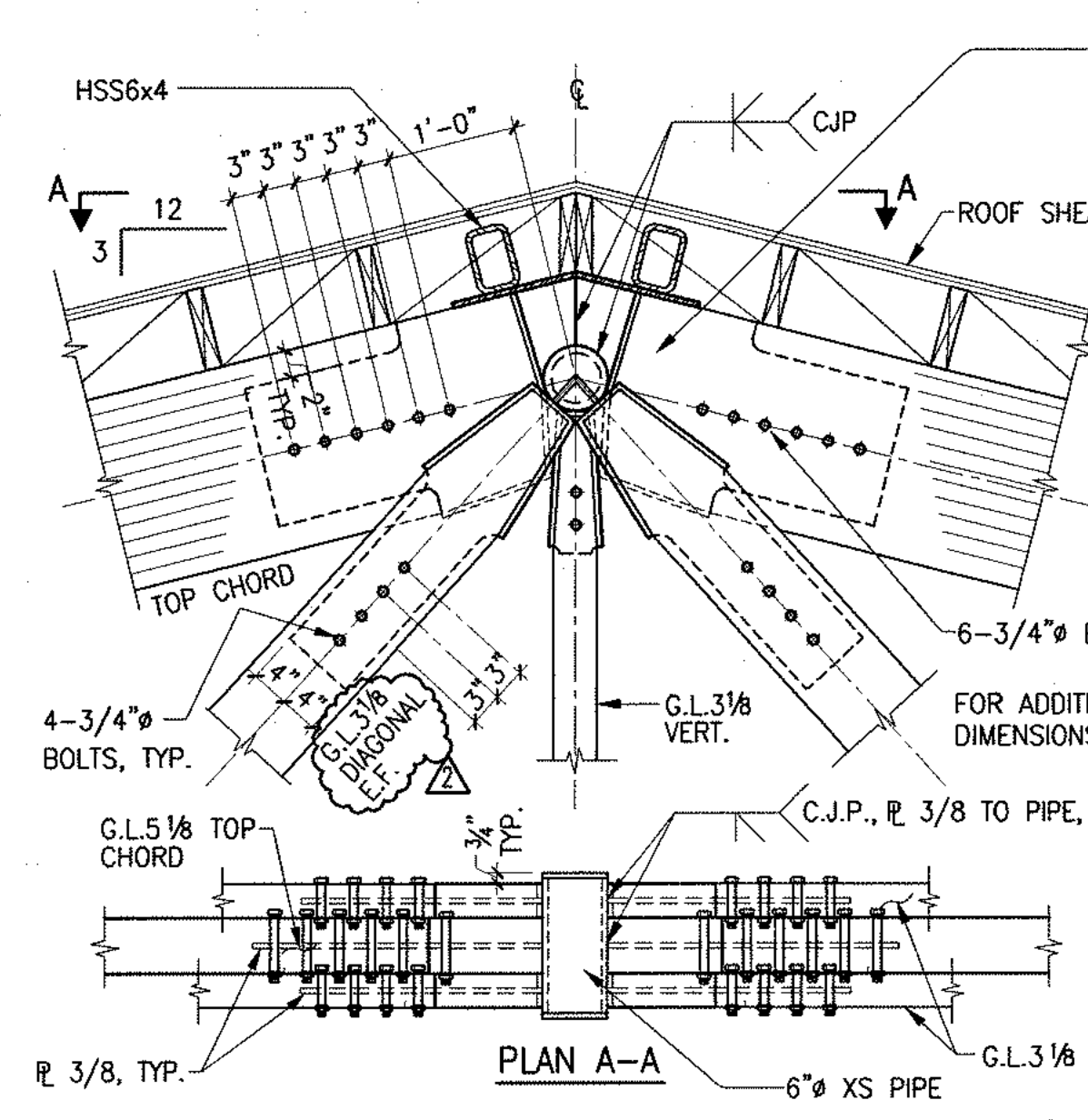
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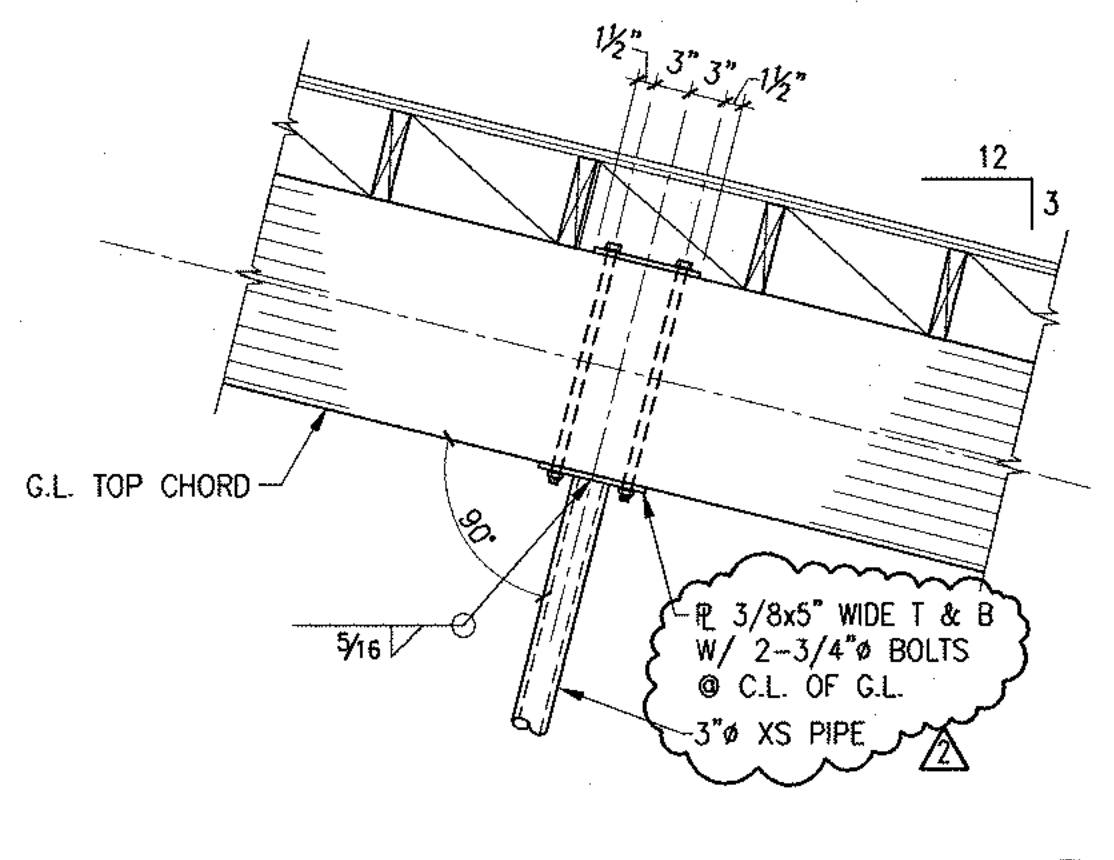
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17
S7.12



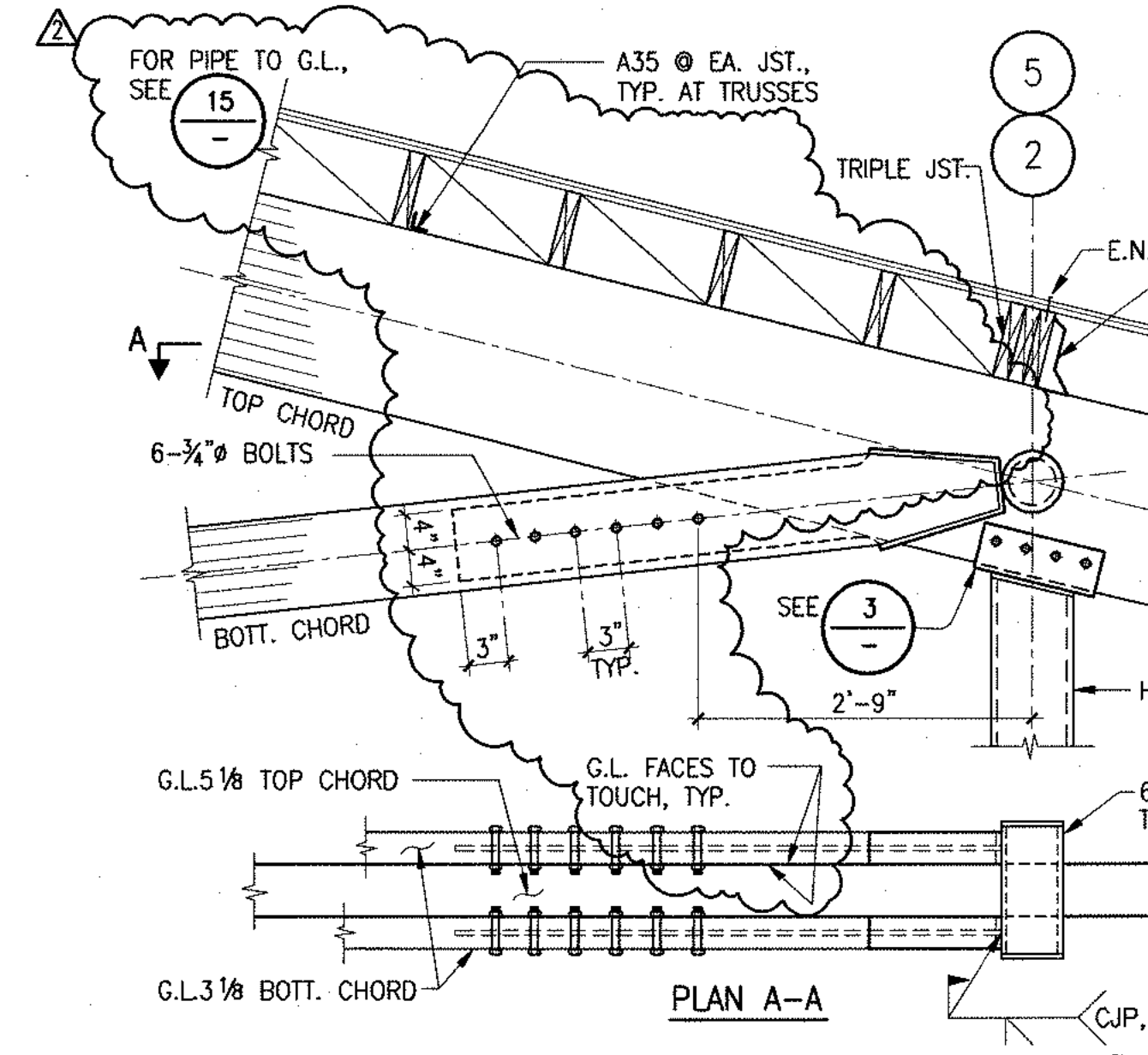
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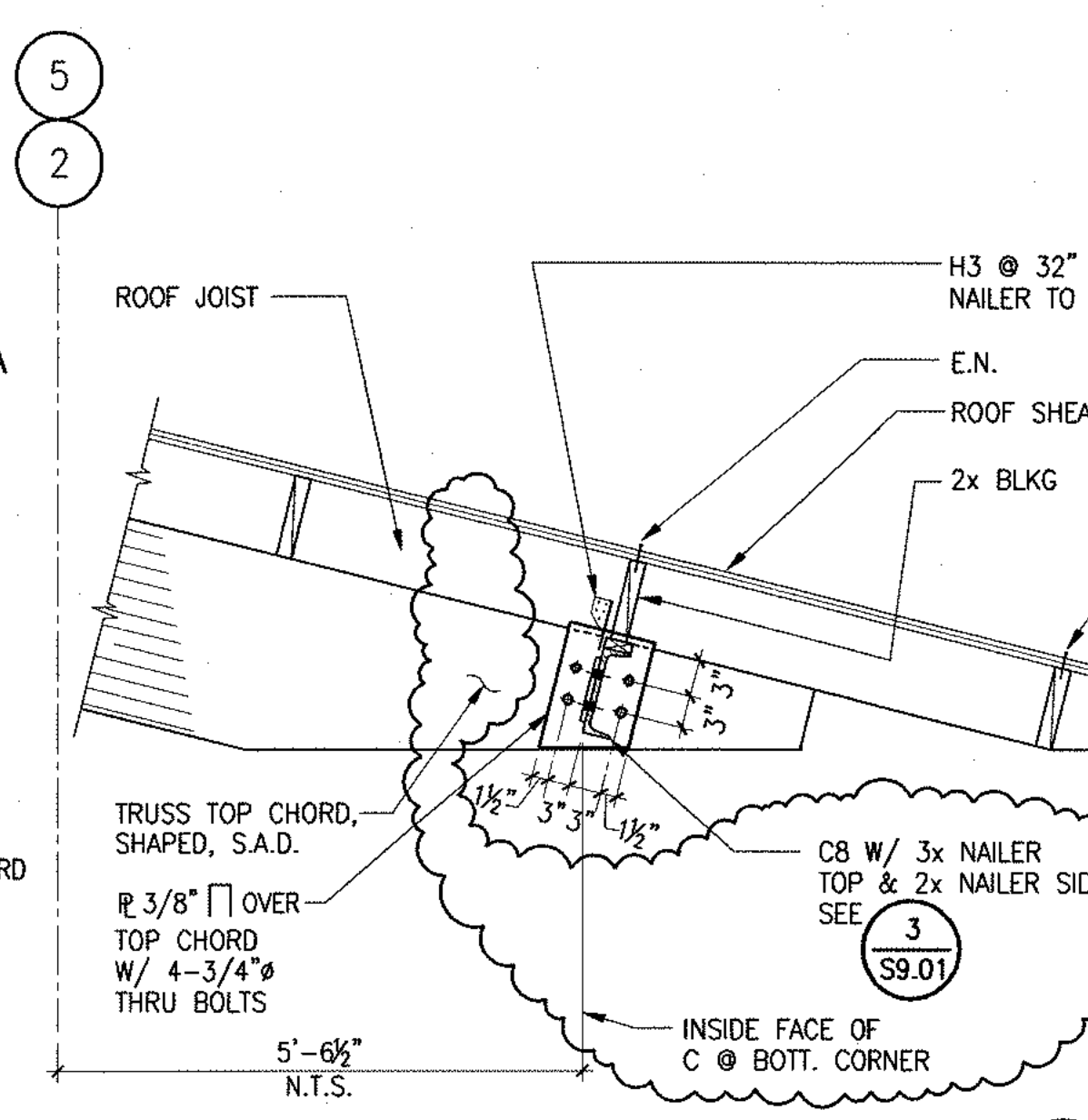
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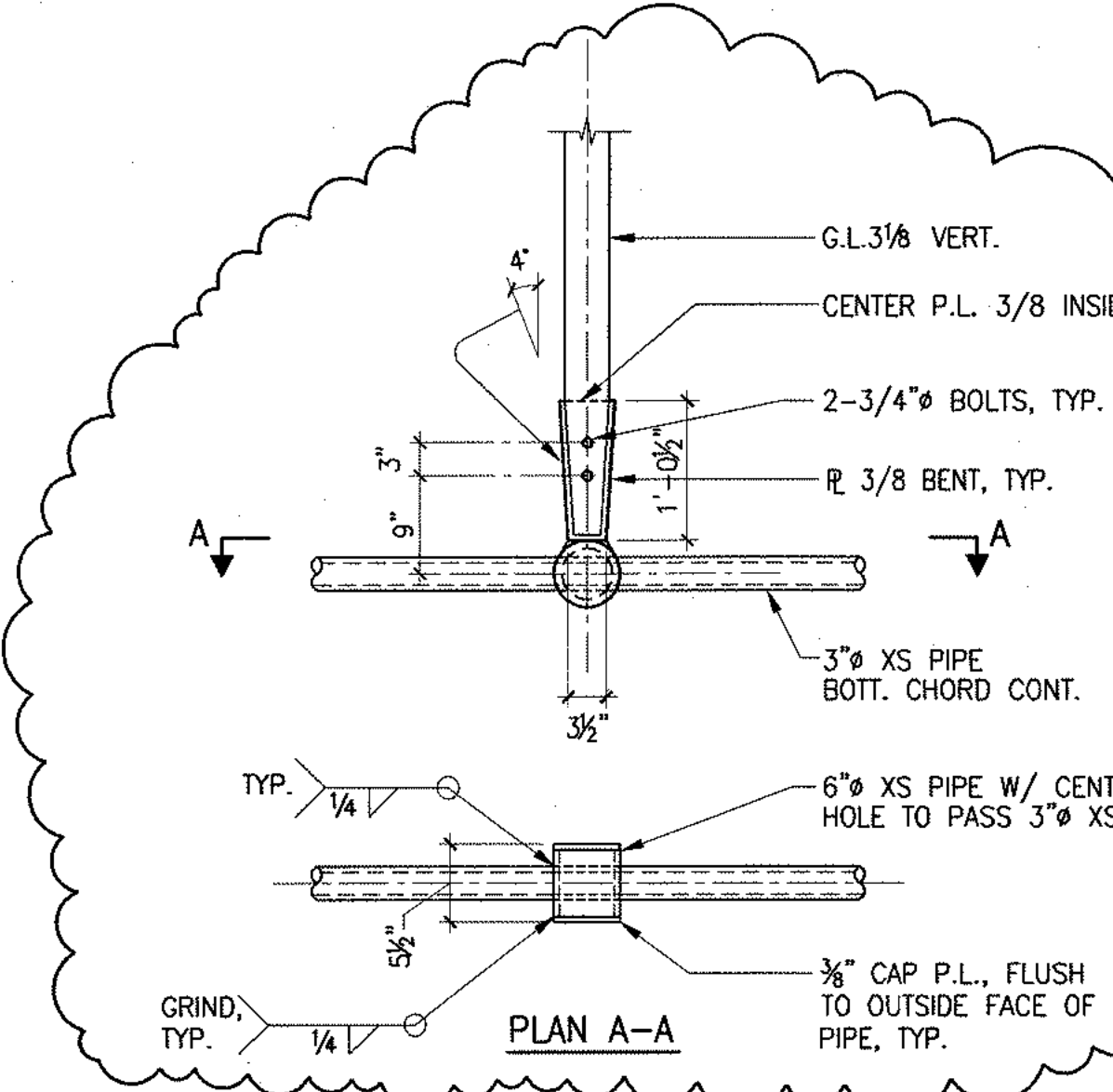
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5
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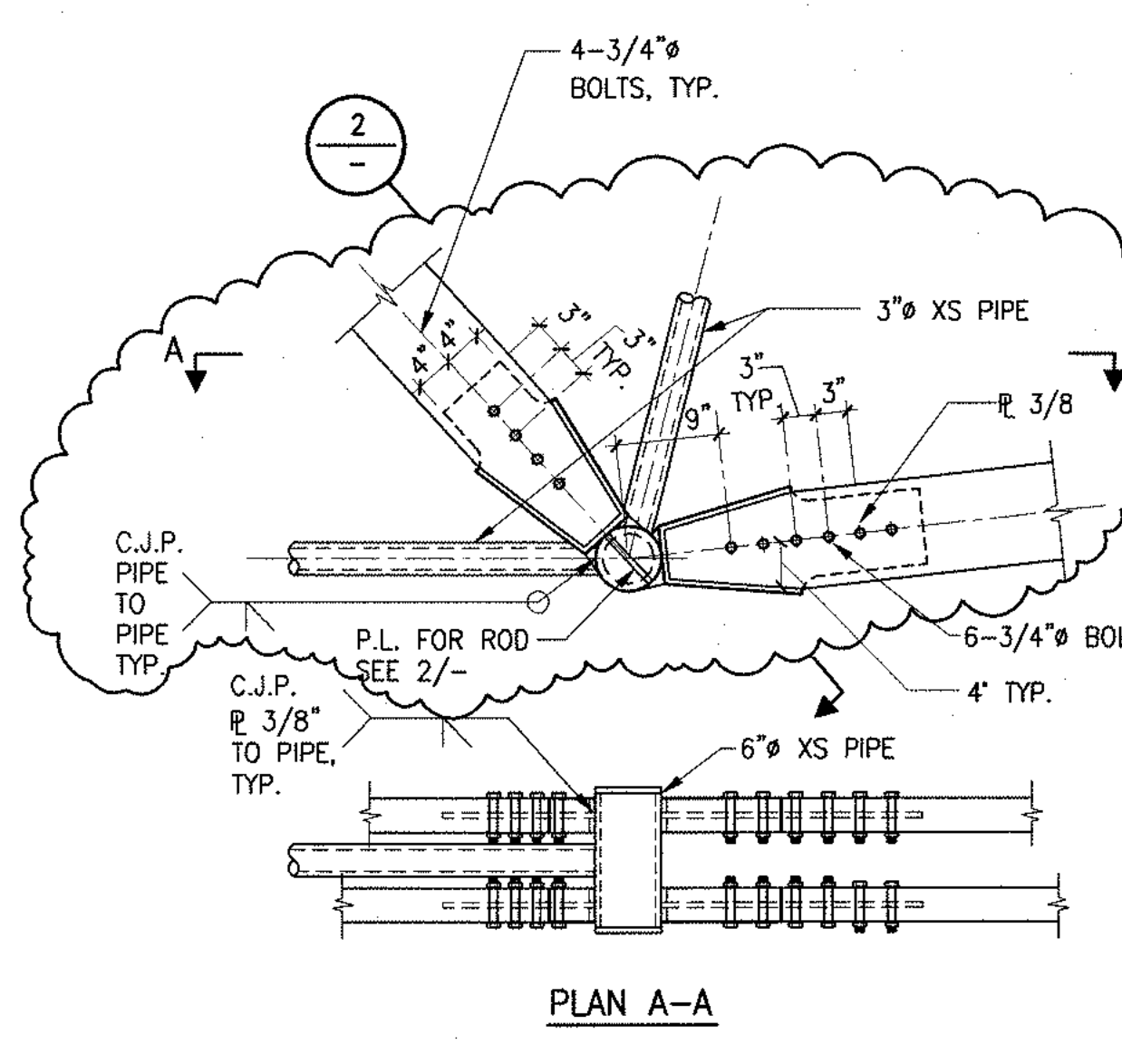
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1
S7.12



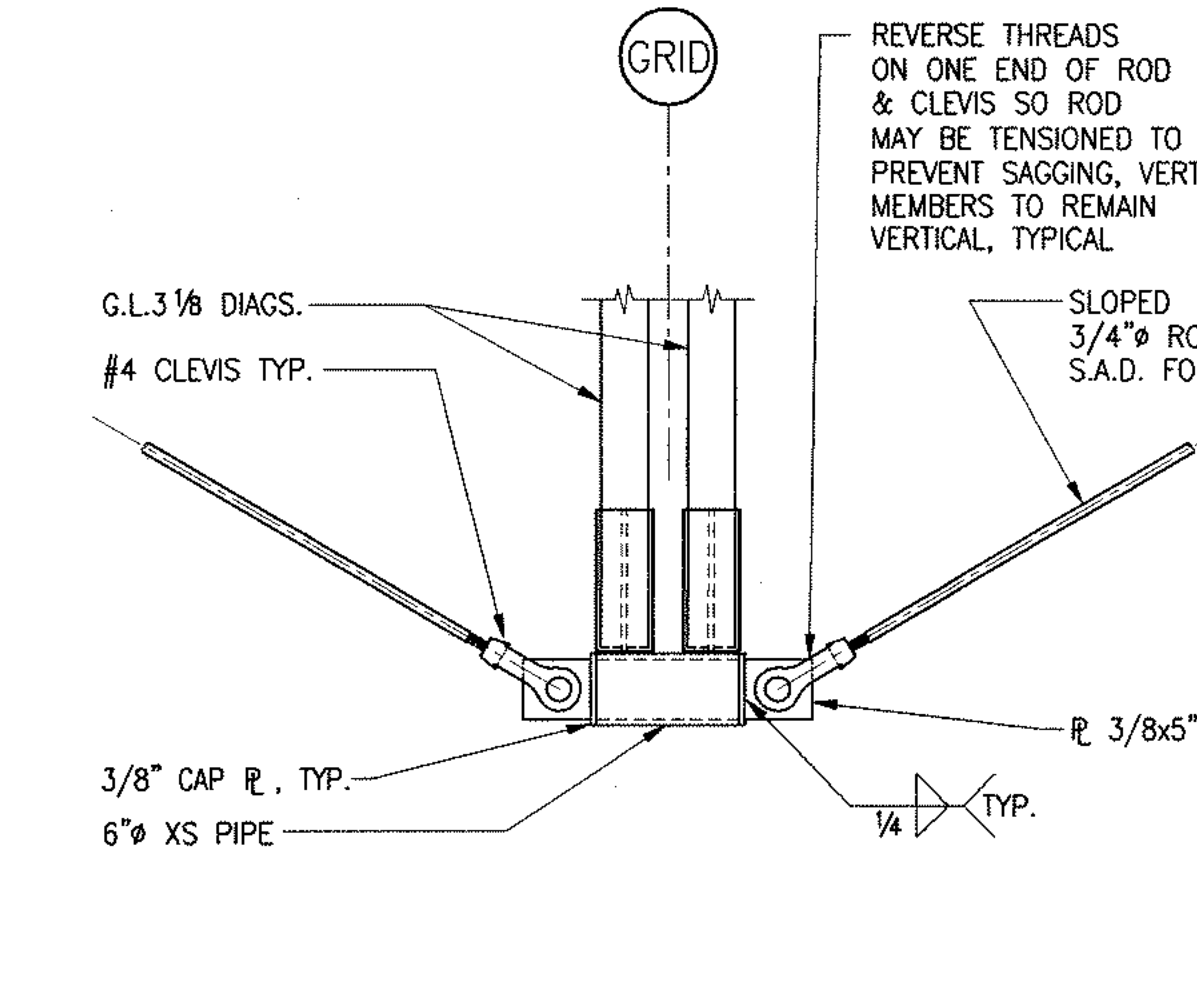
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14
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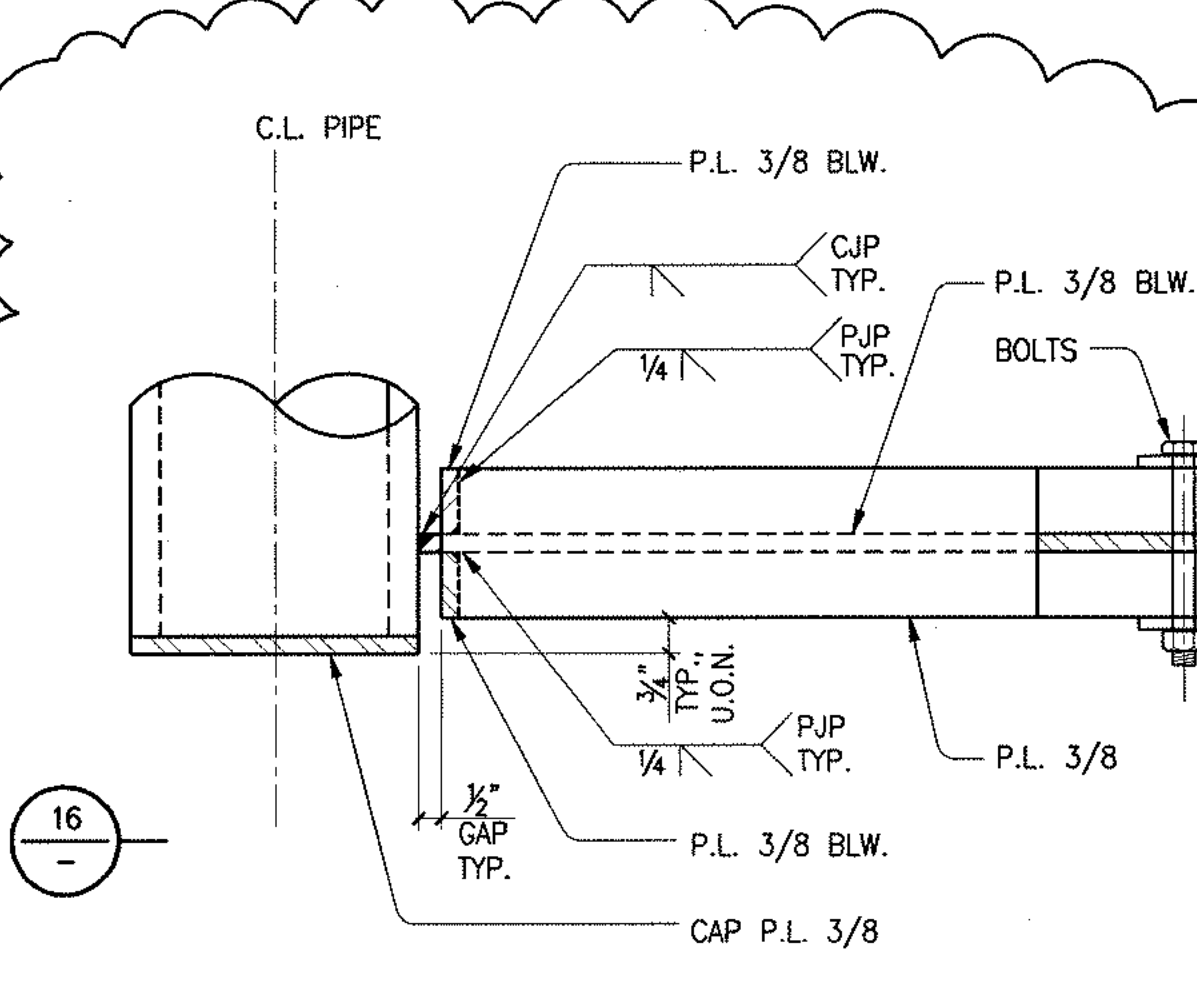
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10
S7.12



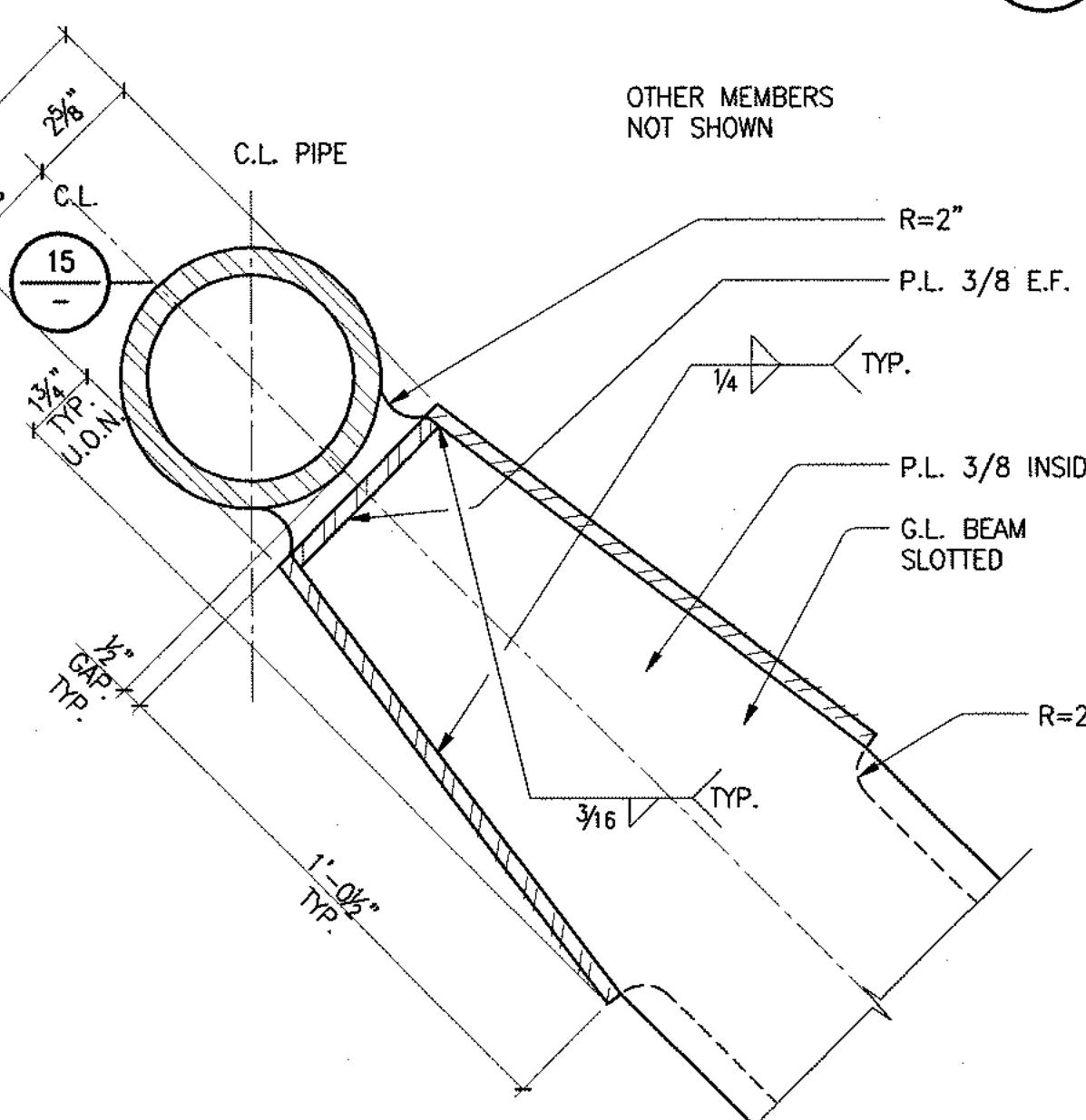
DETAIL
3/4"=1'-0"
2
S7.12



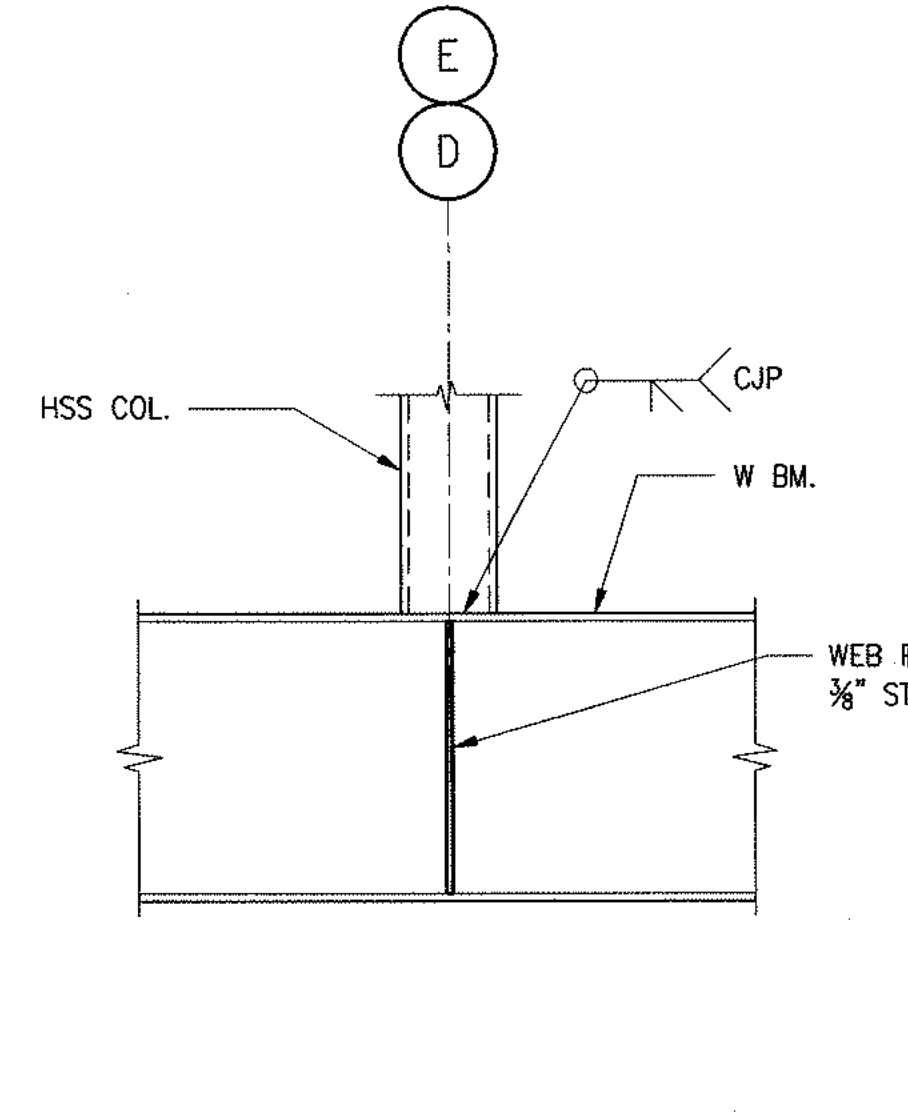
PLAN DETAIL - TYP. 3 1/8 WIDE G.L. BEAM TO PIPE
3"=1'-0"
15
S7.12



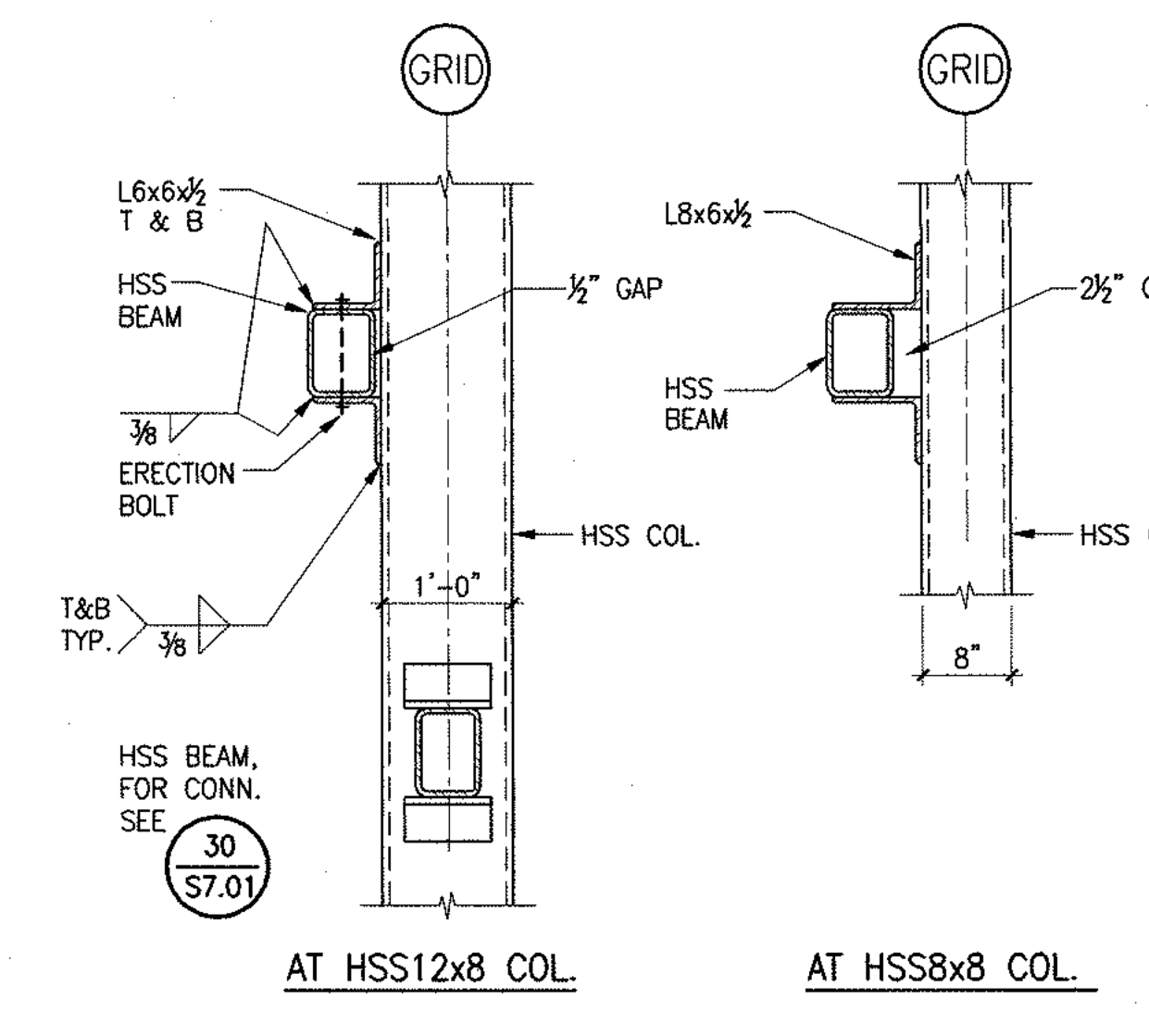
DETAIL
3"=1'-0"
16
S7.12



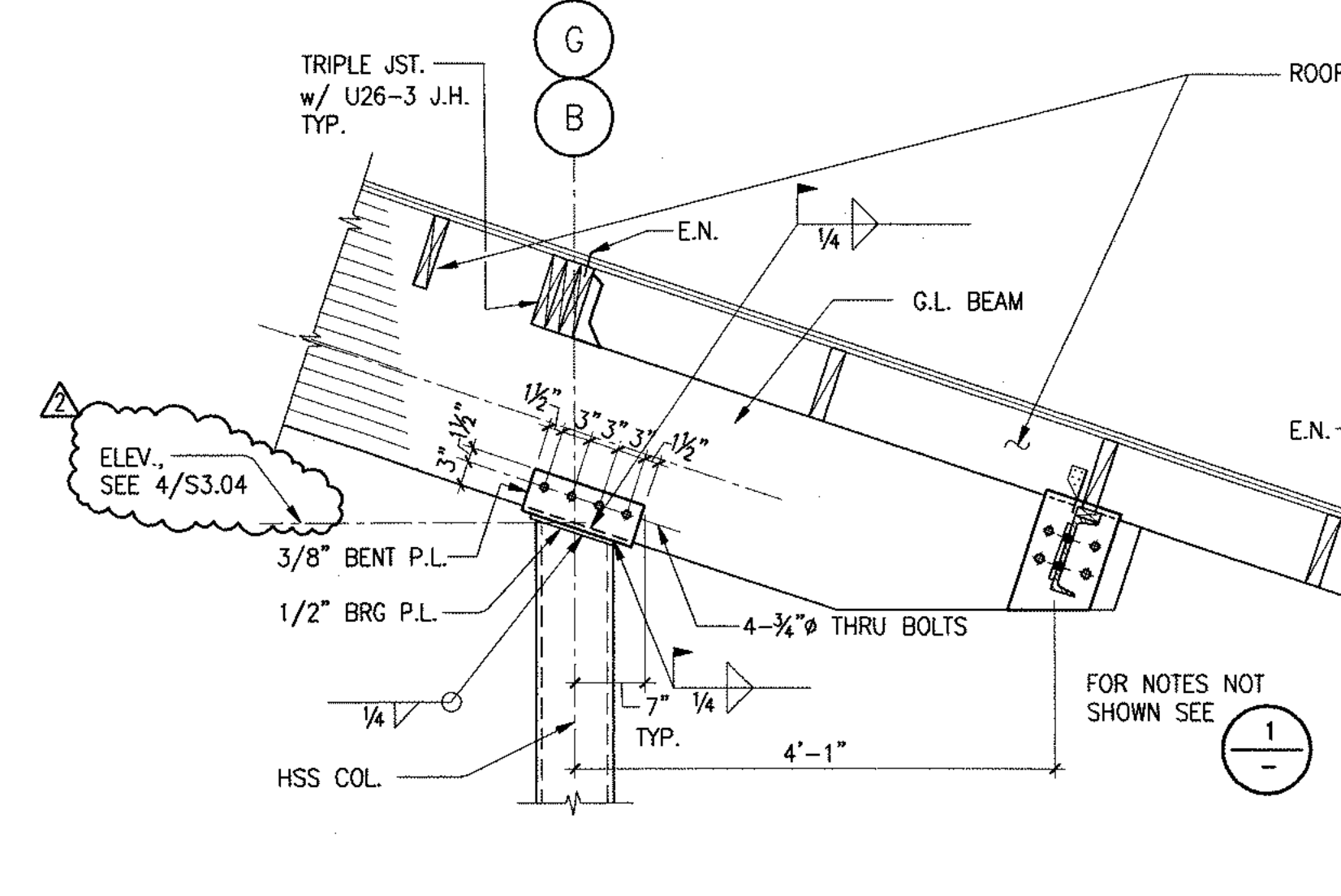
DETAIL
3/4"=1'-0"
12
S7.12



DETAIL
3/4"=1'-0"
8
S7.12



DETAIL
3/4"=1'-0"
3
S7.12



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San Francisco, CA 94103
415 865 1811 T
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370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

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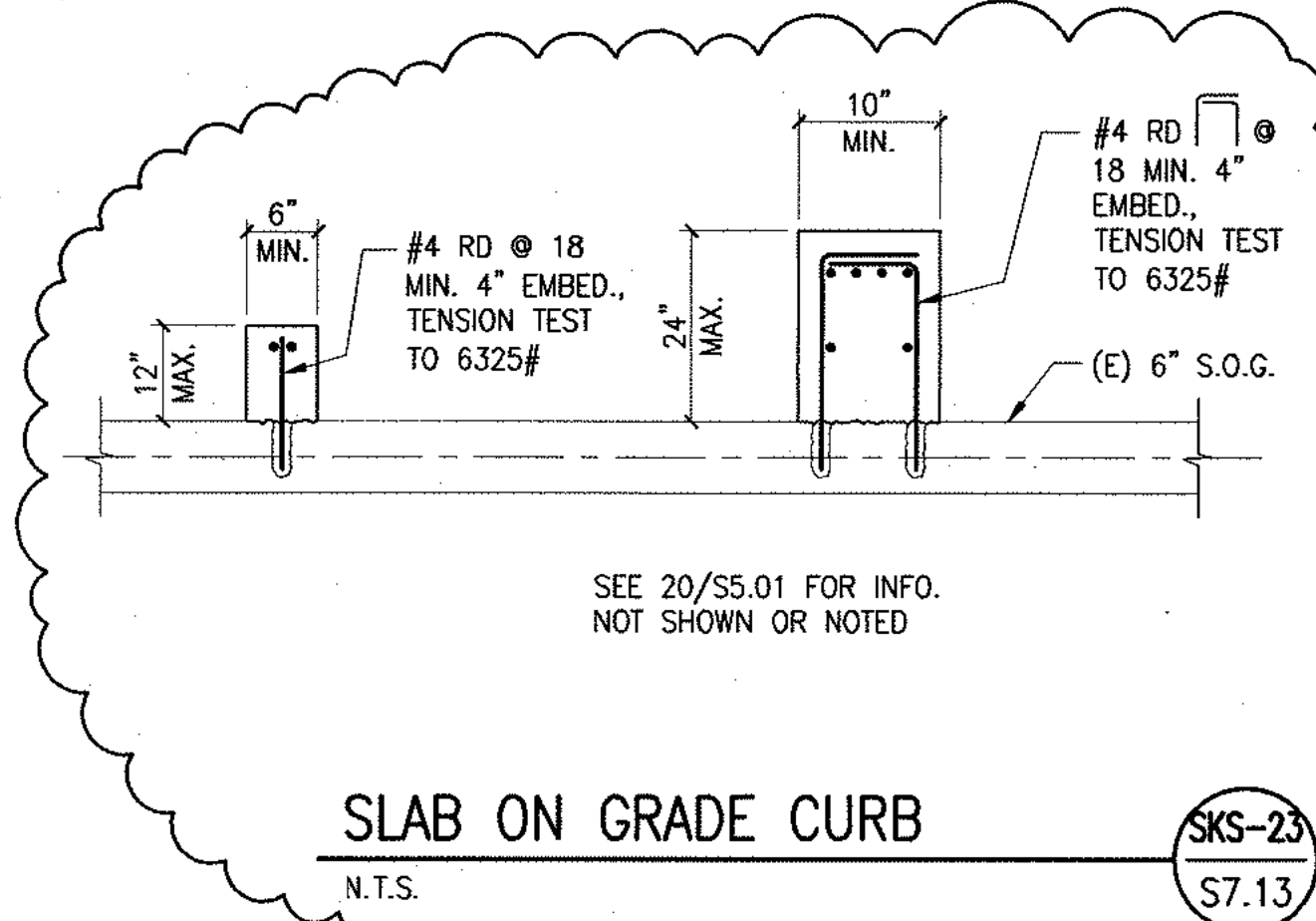


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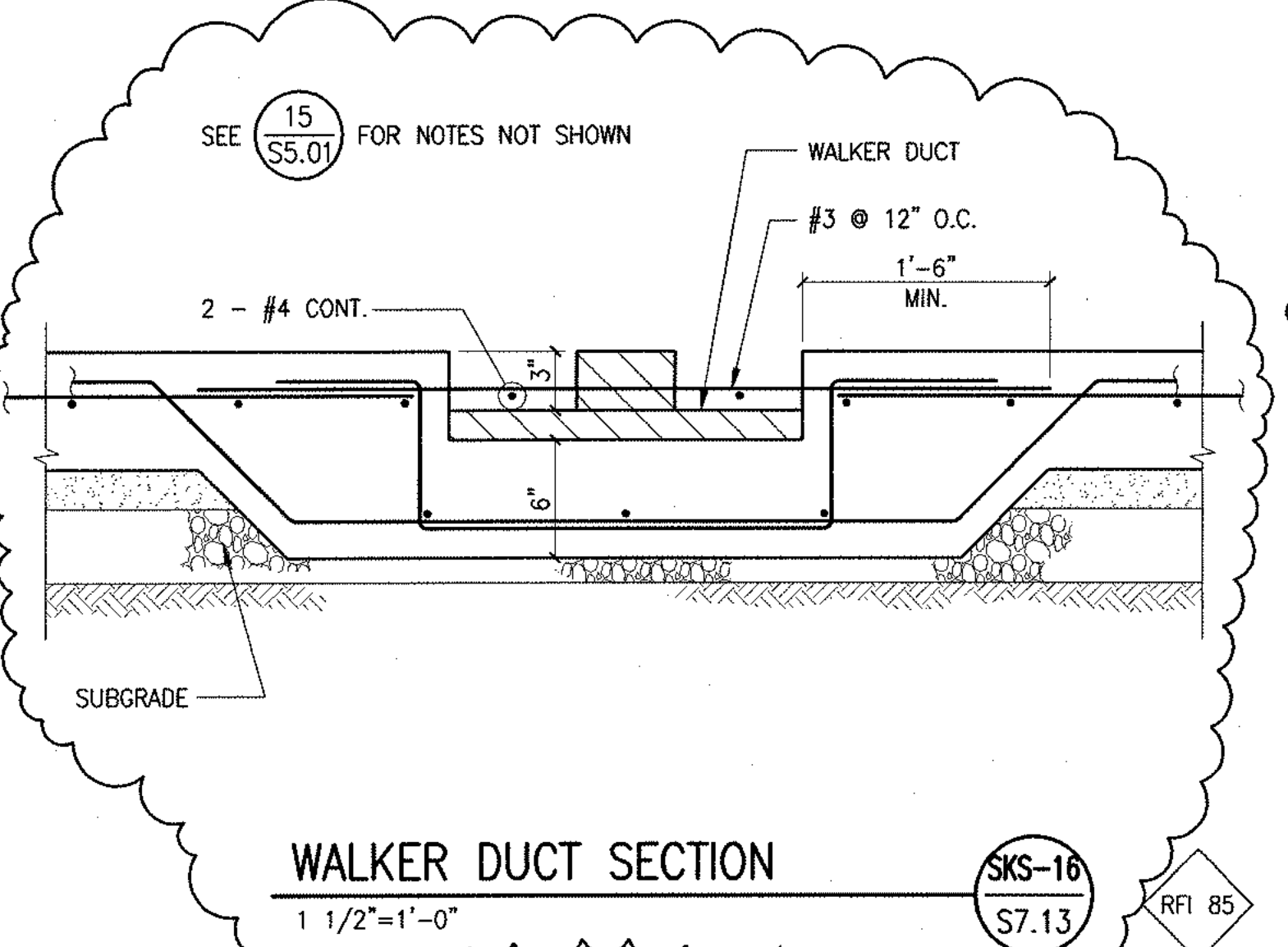
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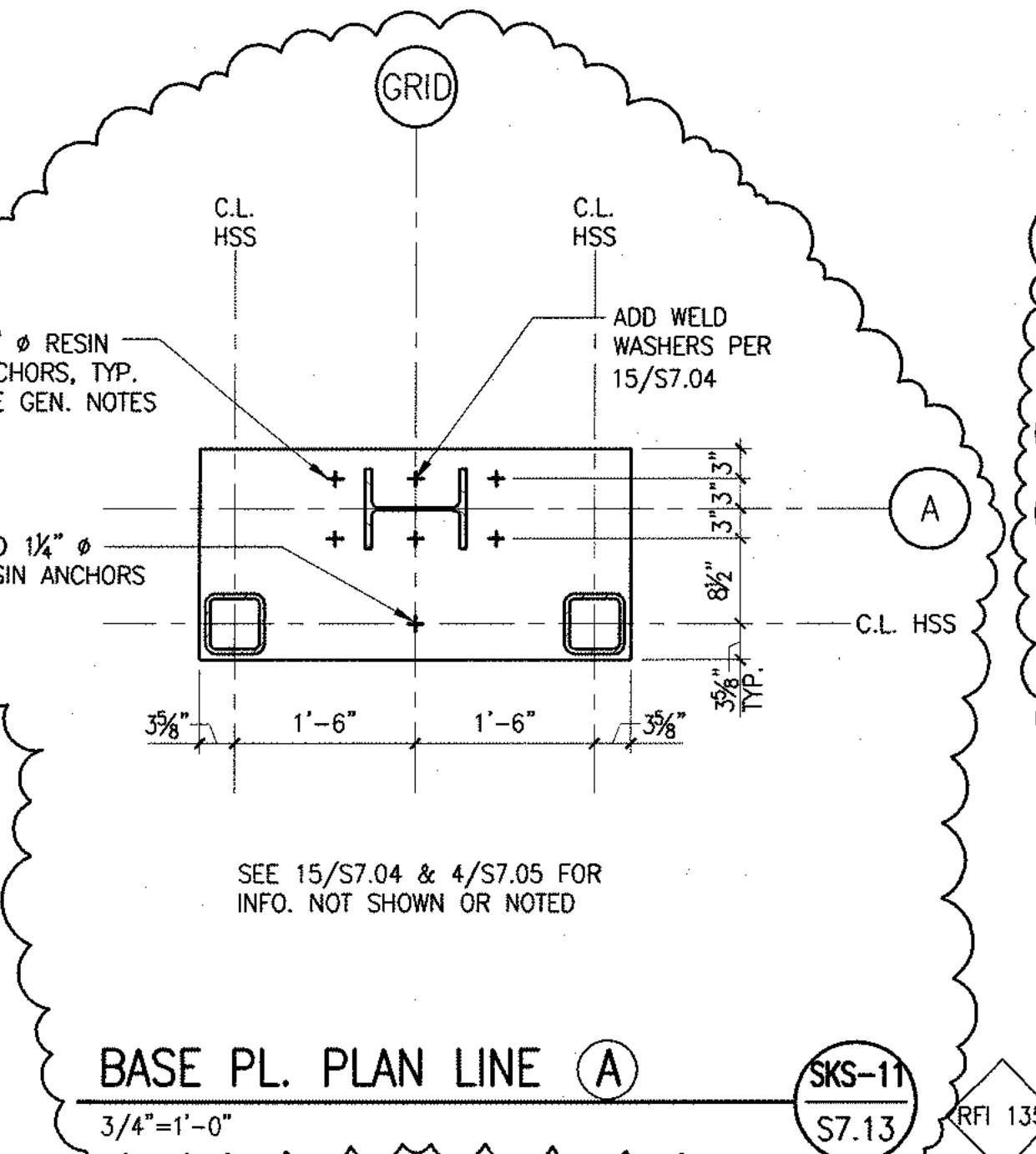
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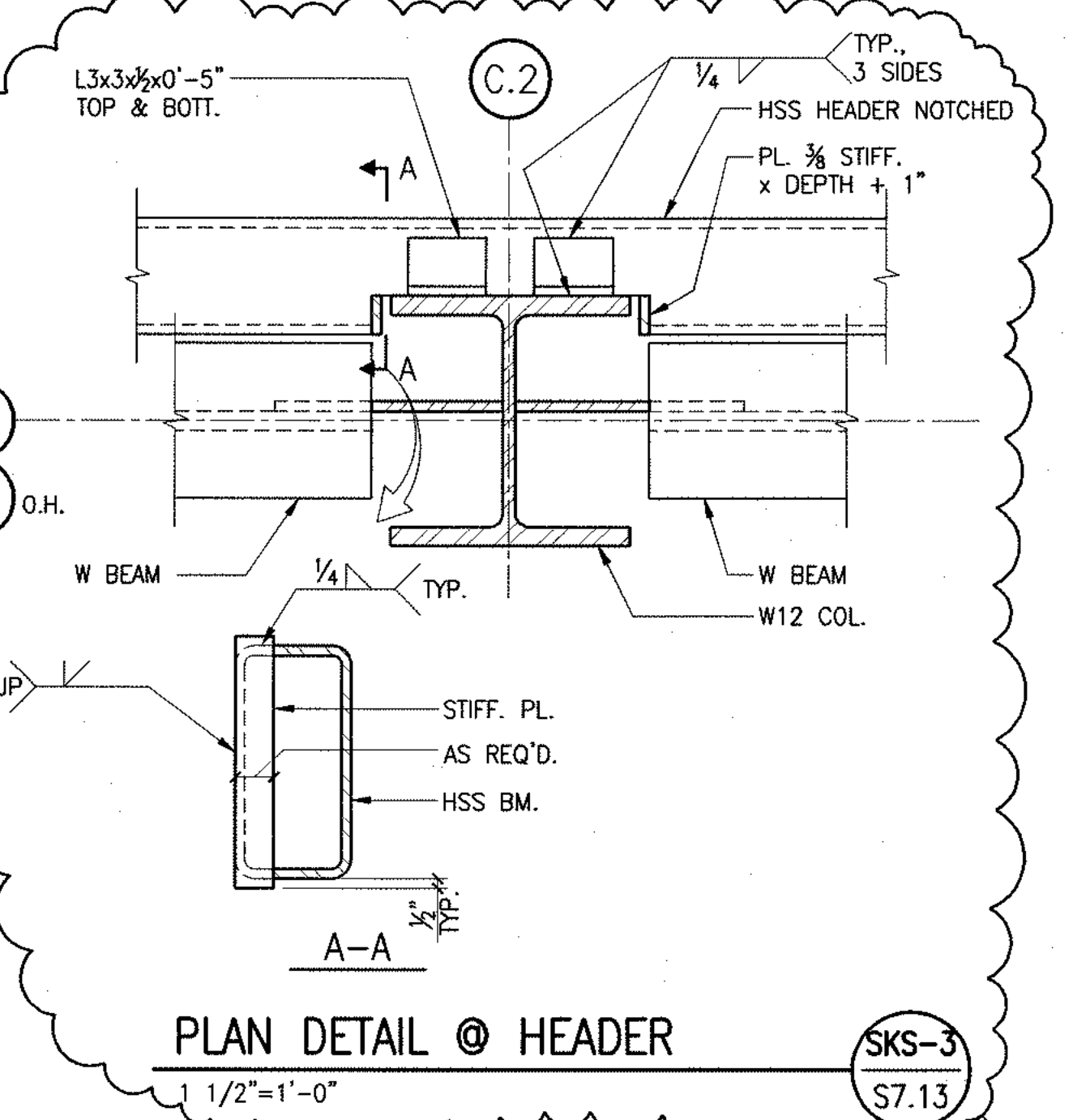
SKS-23
SLAB ON GRADE CURB
N.T.S. S7.13



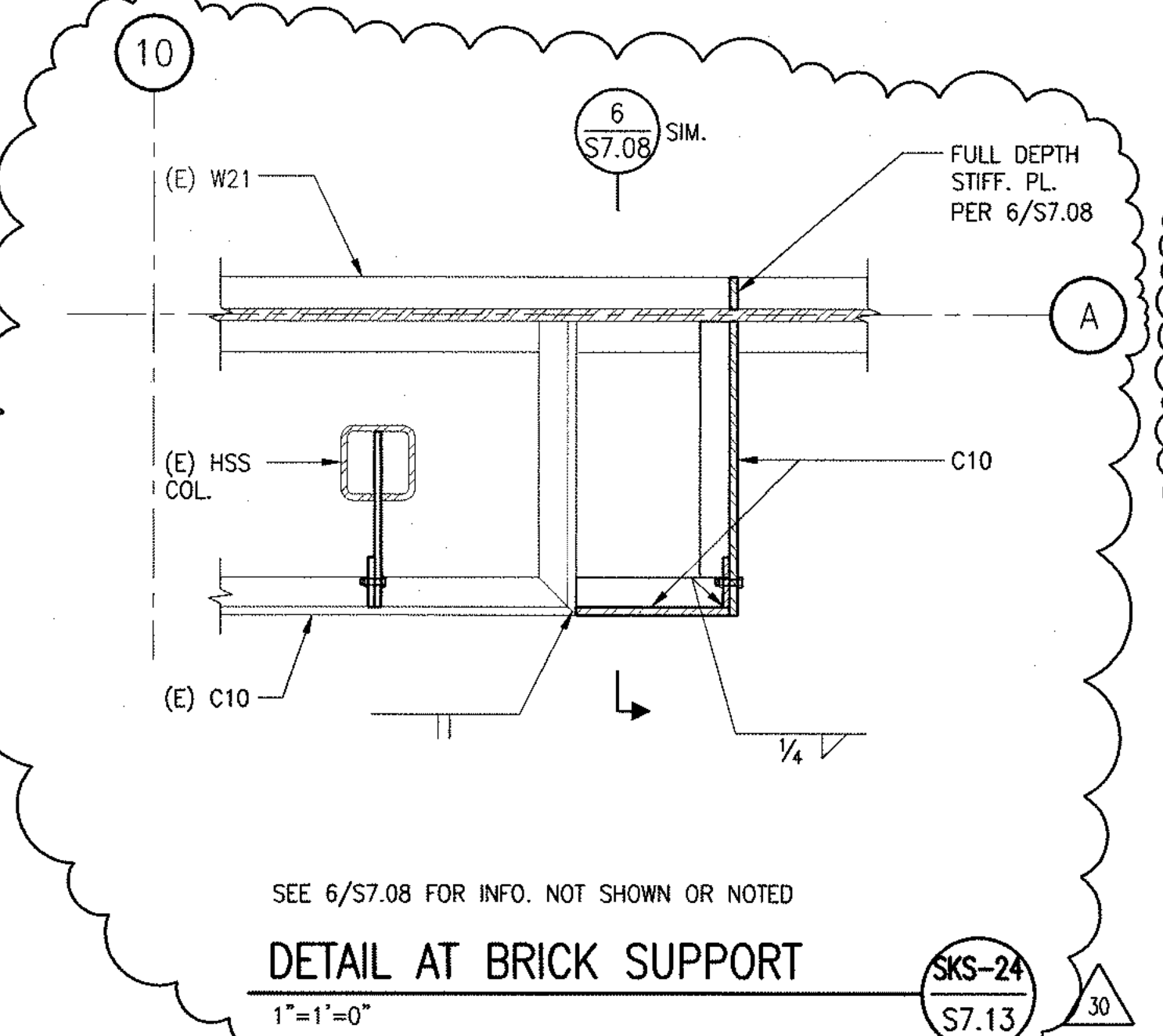
SKS-18
WALKER DUCT SECTION
1 1/2"=1'-0" S7.13



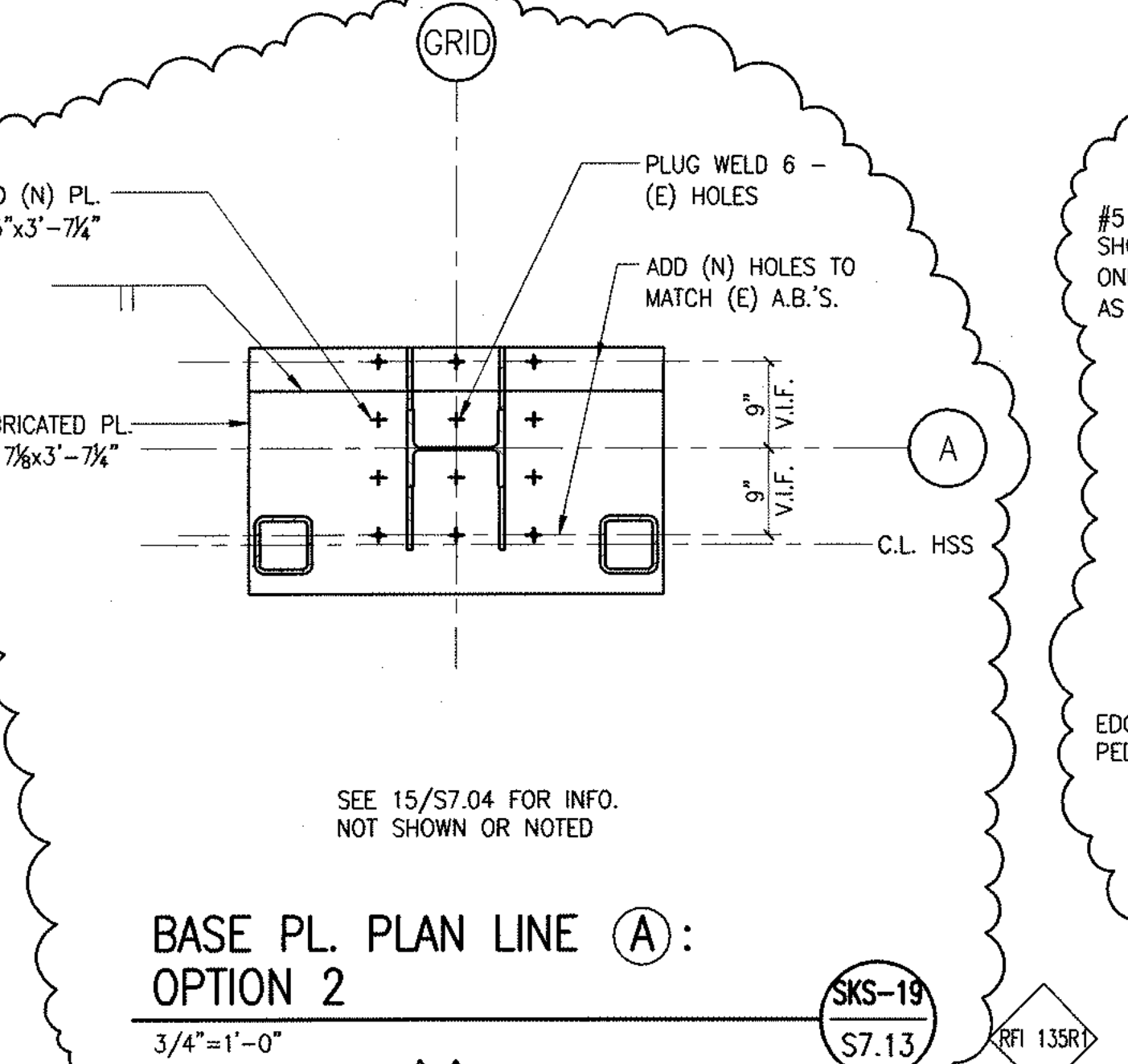
SKS-11
BASE PL. PLAN LINE
3/4"=1'-0" S7.13



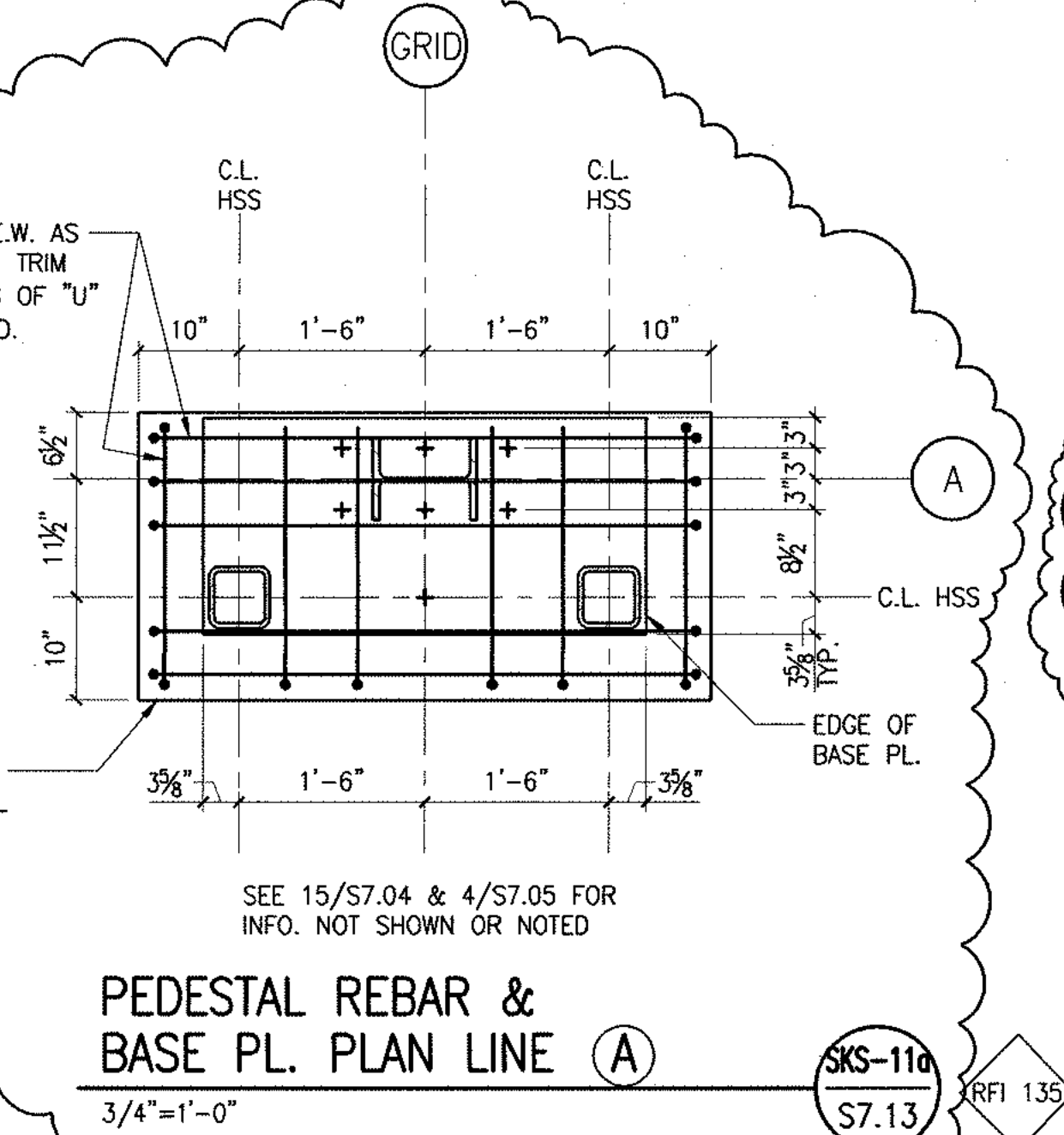
SKS-3
PLAN DETAIL @ HEADER
1 1/2"=1'-0" S7.13



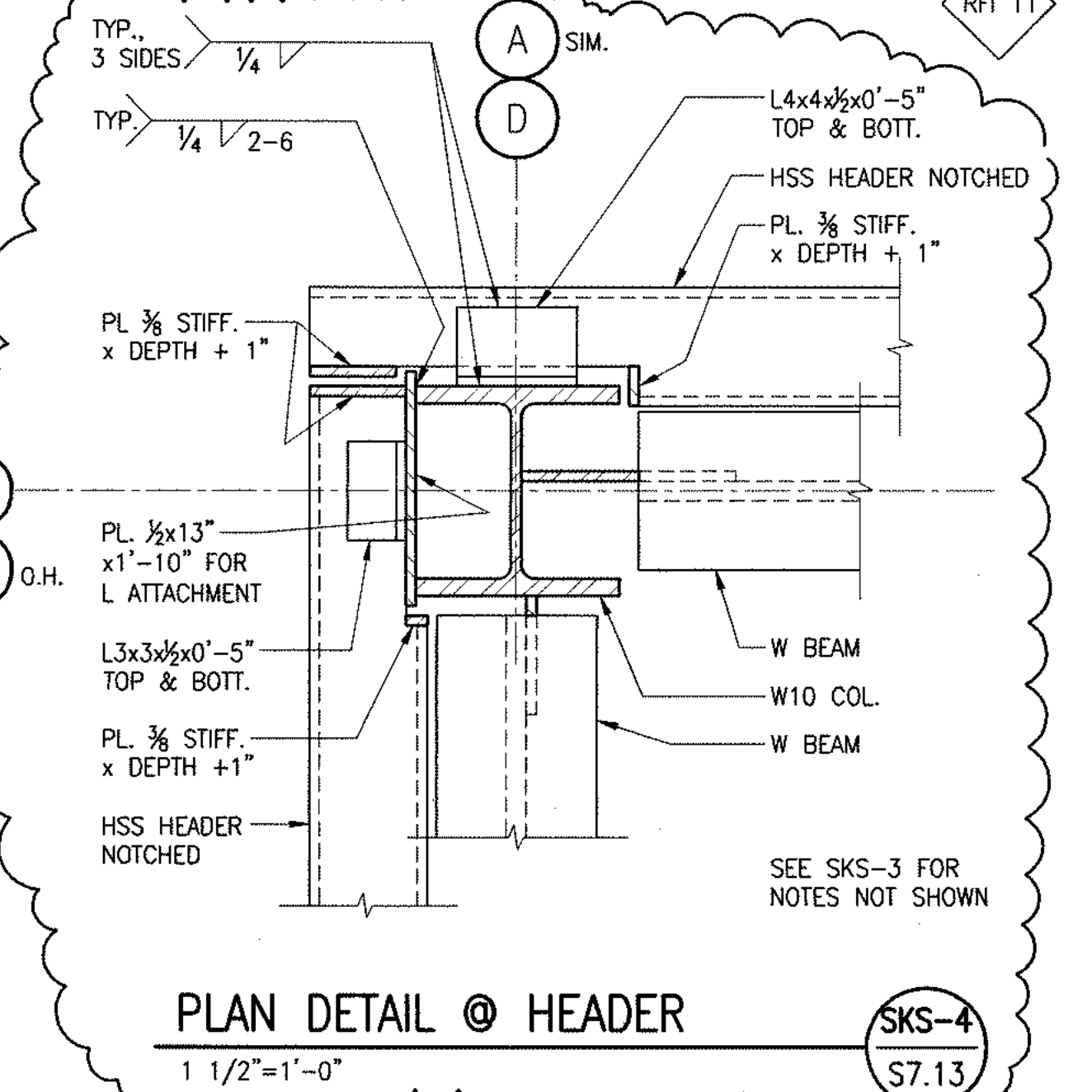
SKS-24
DETAIL AT BRICK SUPPORT
1"=1'-0" S7.13



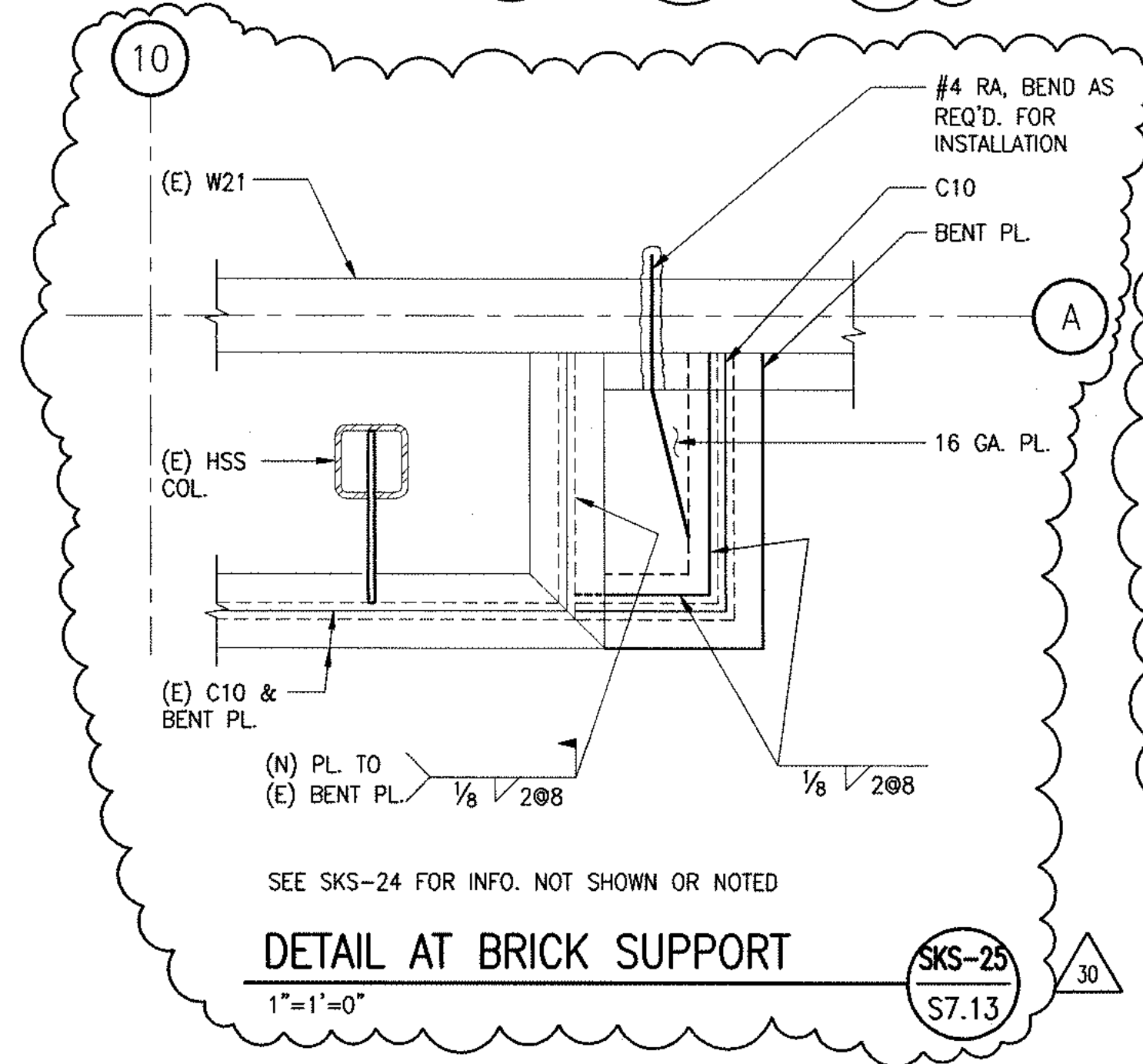
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BASE PL. PLAN LINE OPTION 2
3/4"=1'-0" S7.13



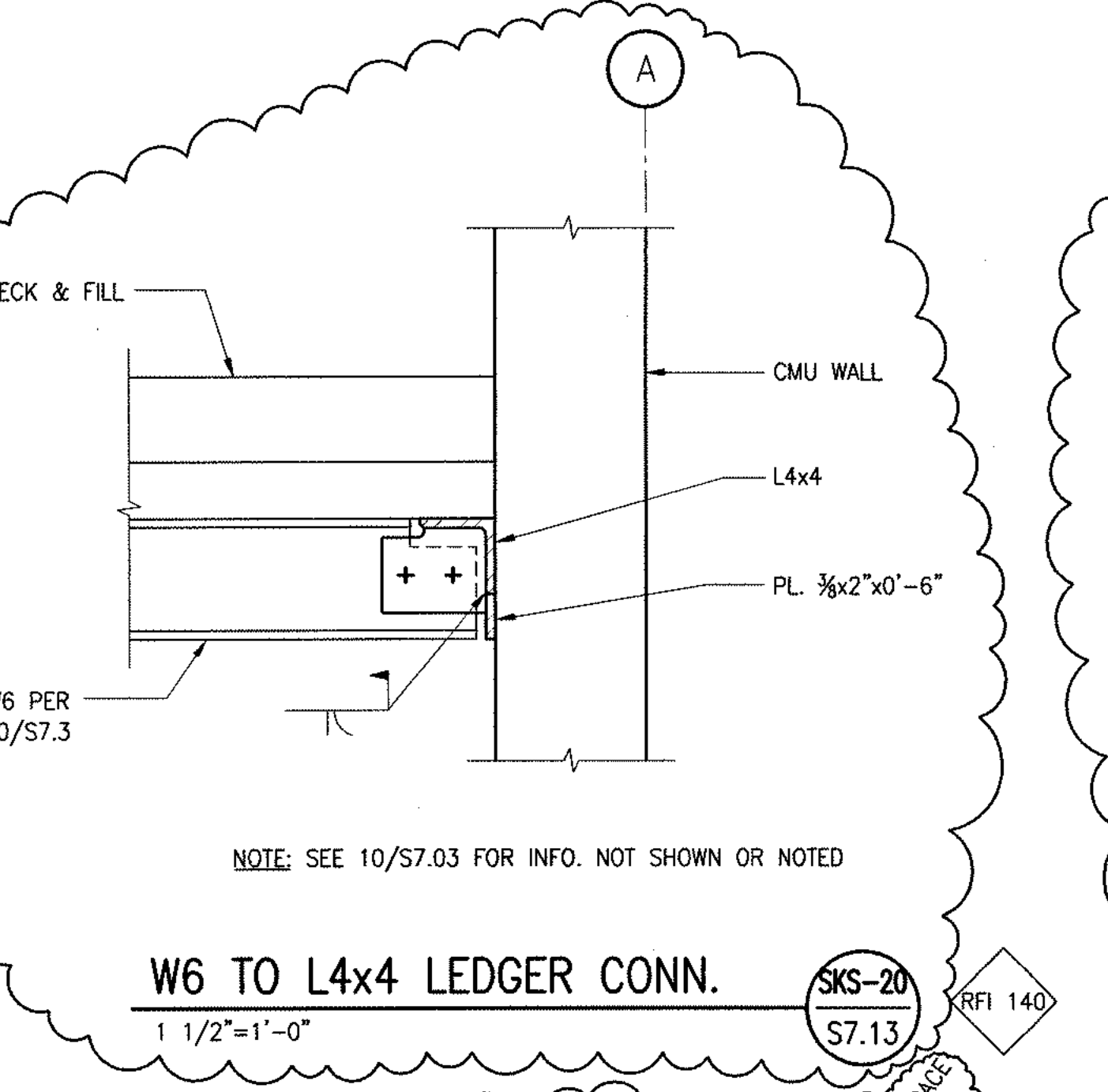
SKS-11a
PEDESTAL REBAR & BASE PL. PLAN LINE
3/4"=1'-0" S7.13



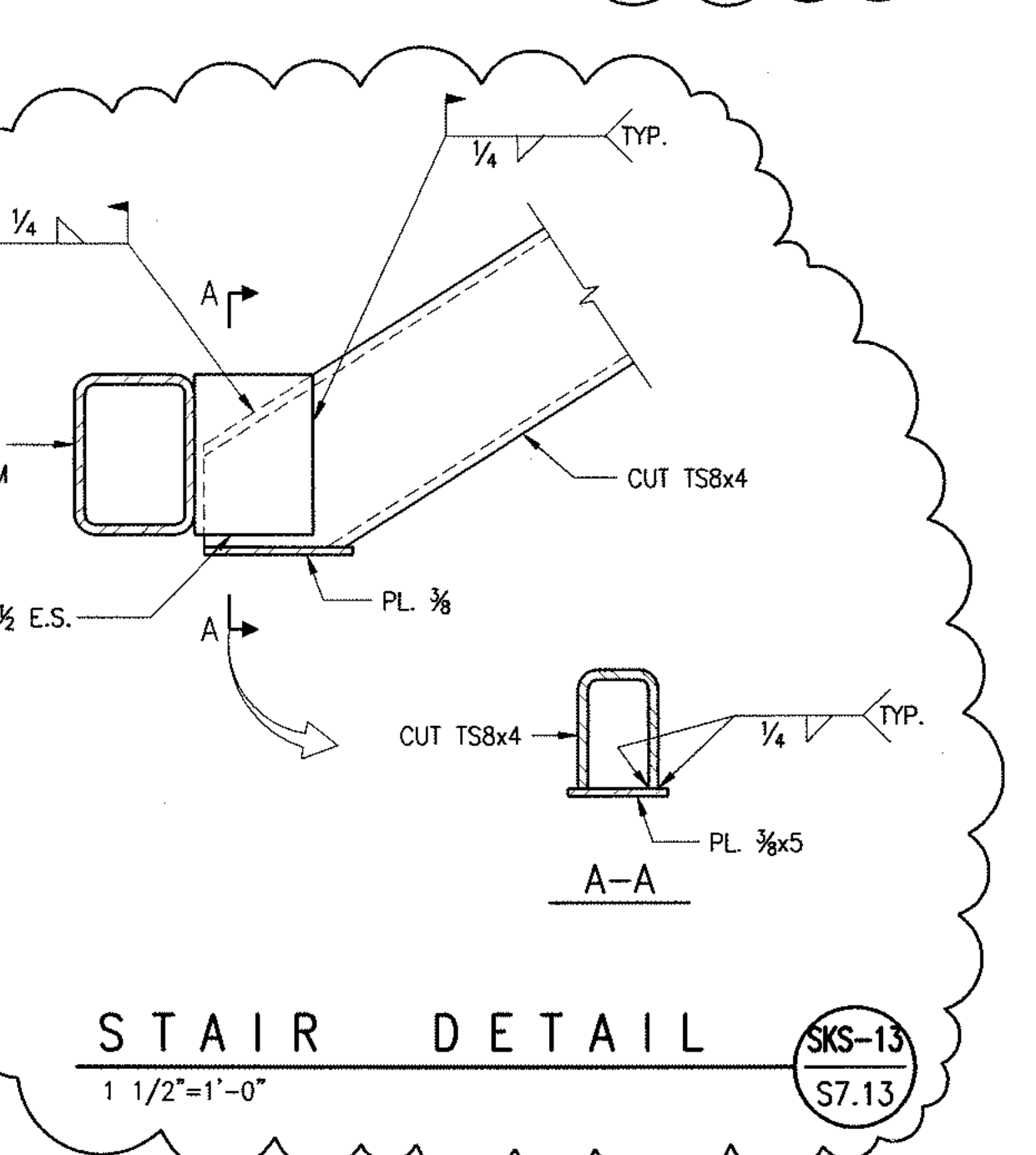
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PLAN DETAIL @ HEADER
1 1/2"=1'-0" S7.13



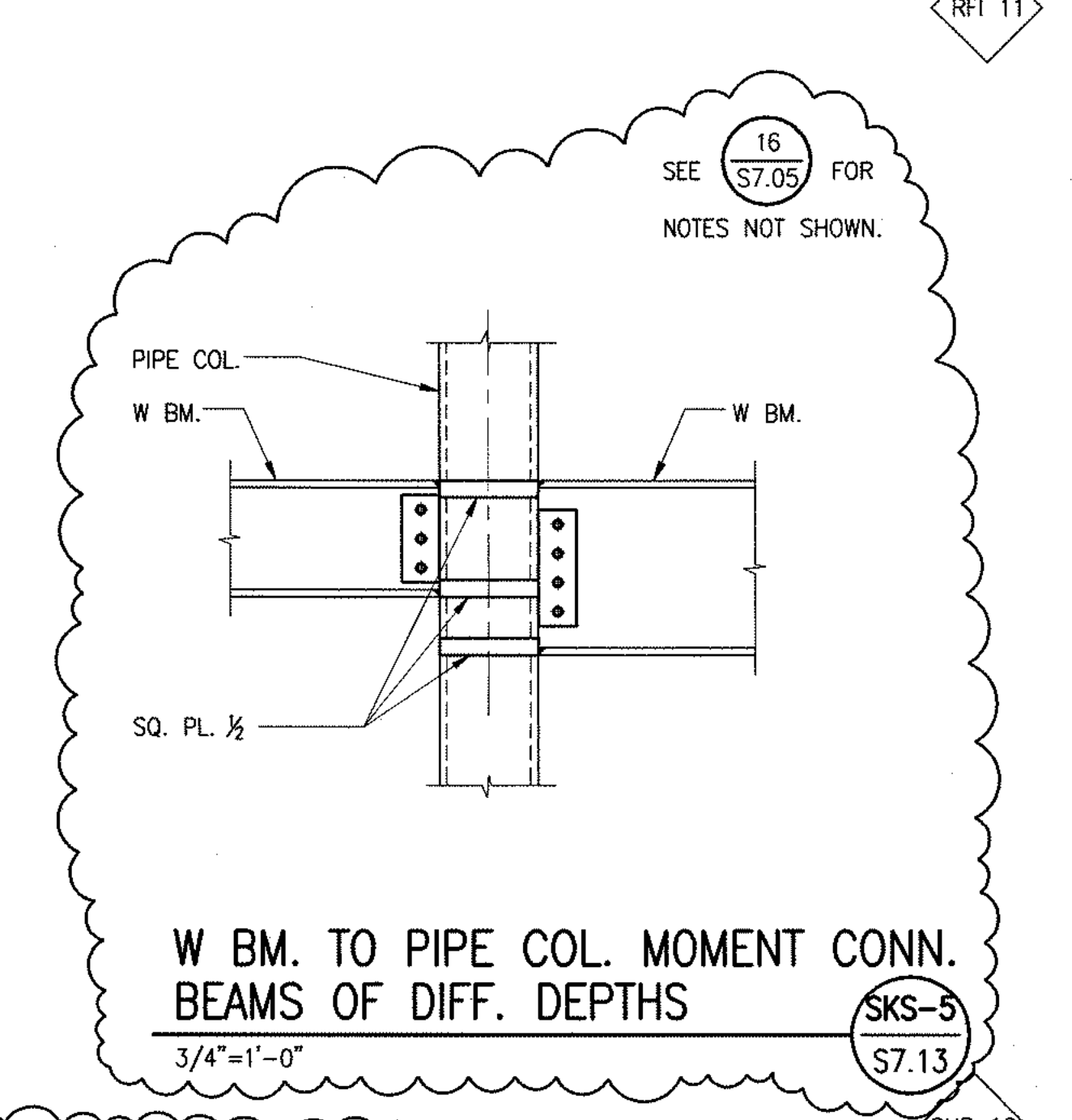
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DETAIL AT BRICK SUPPORT
1"=1'-0" S7.13



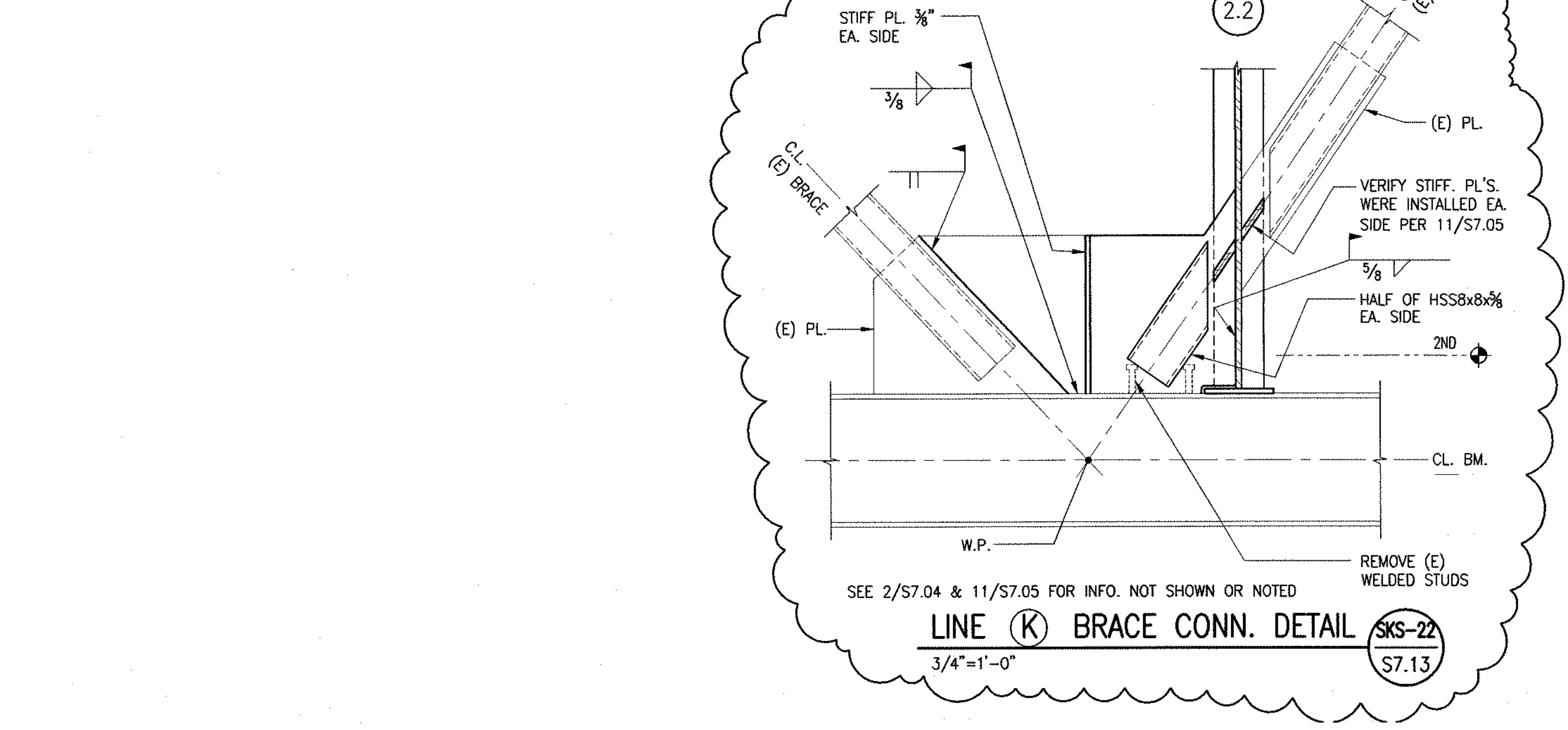
SKS-20
W6 TO L4x4 LEDGER CONN.
1 1/2"=1'-0" S7.13



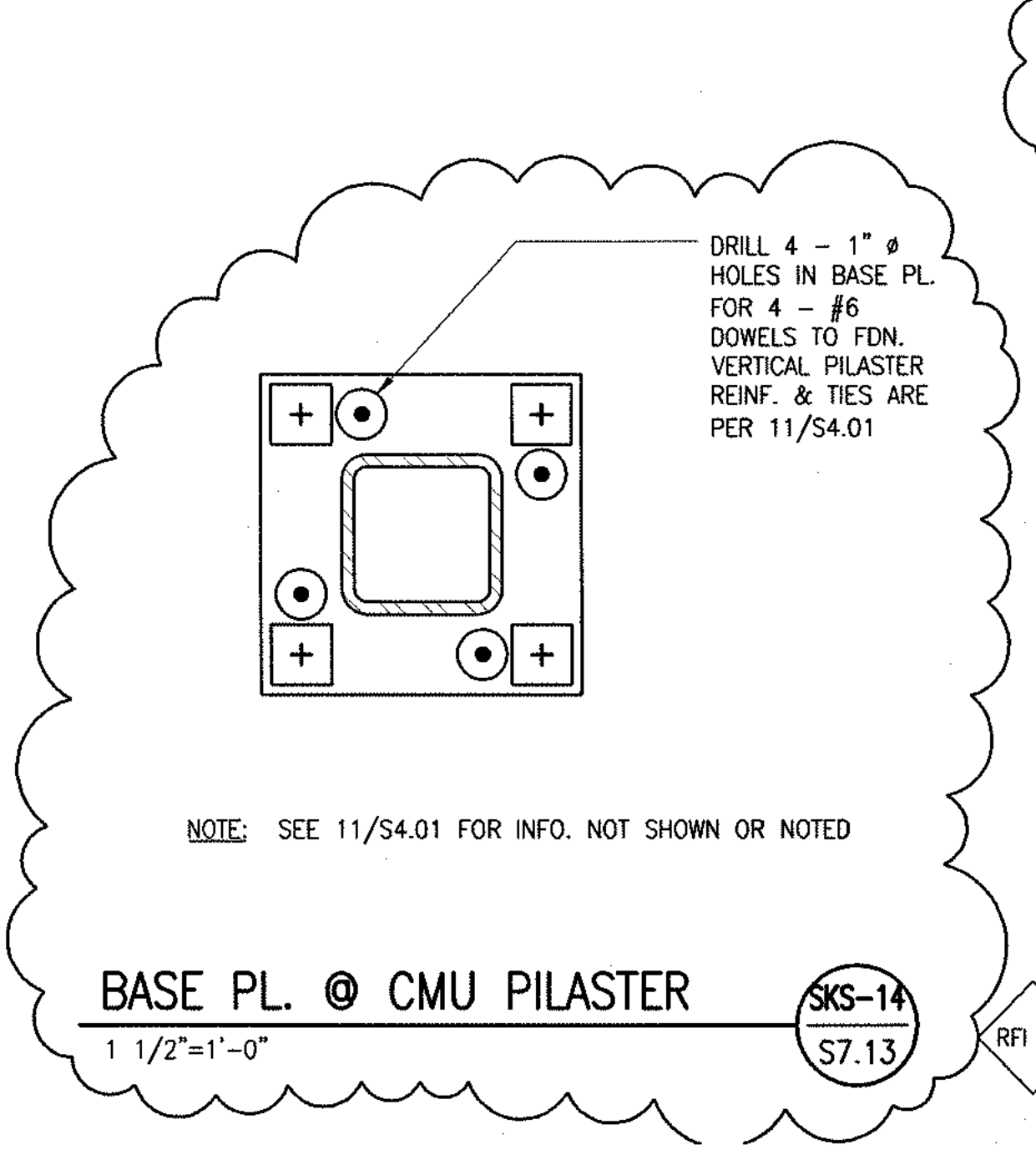
SKS-13
STAIR DETAIL
1 1/2"=1'-0" S7.13



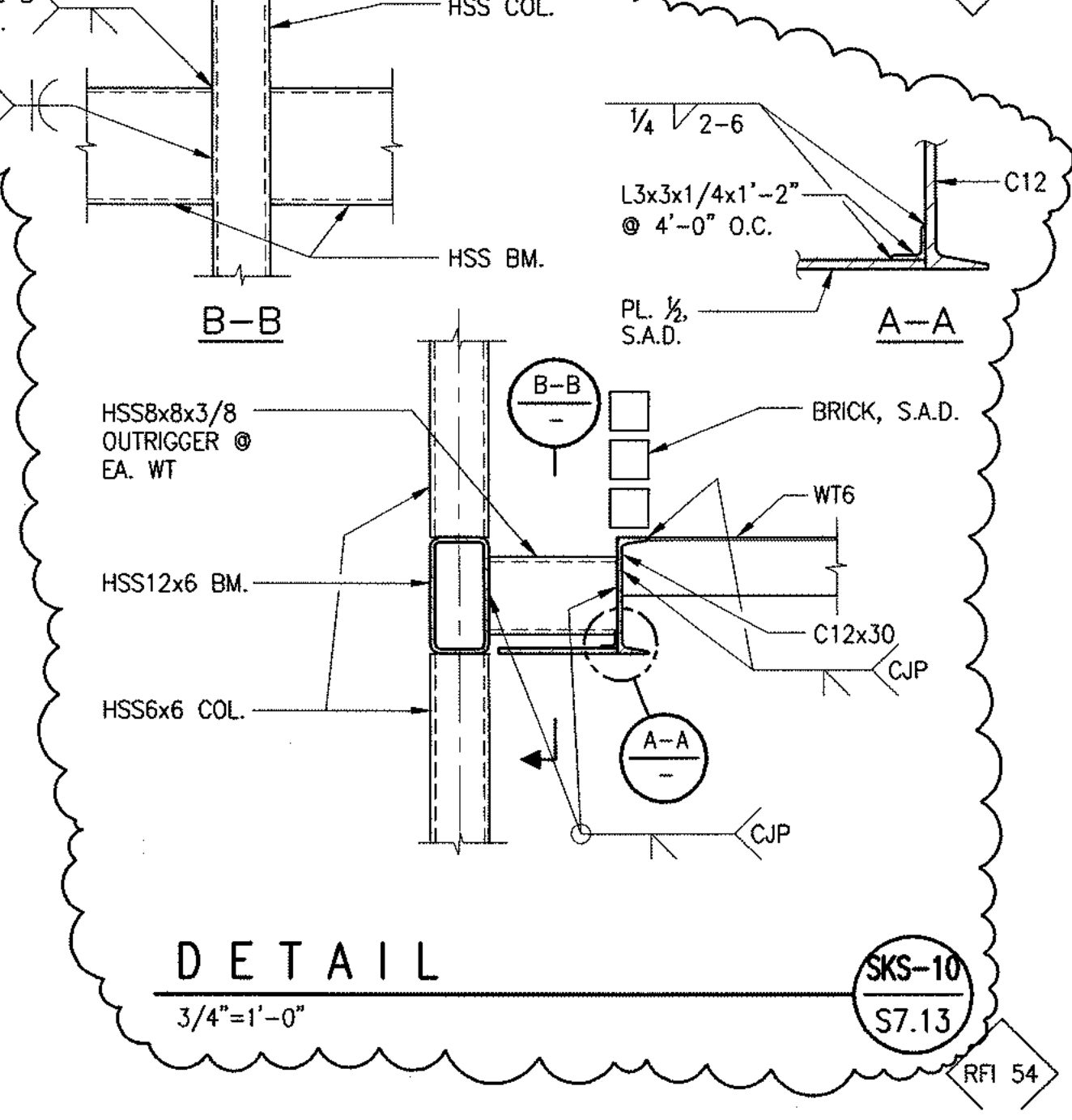
SKS-9
W BM. TO PIPE COL. MOMENT CONN. BEAMS OF DIFF. DEPTHS
3/4"=1'-0" S7.13



SKS-22
LINE (K) BRACE CONN. DETAIL
3/4"=1'-0" S7.13



SKS-14
BASE PL. @ CMU PILASTER
1 1/2"=1'-0" S7.13



SKS-10
DETAIL
3/4"=1'-0" S7.13

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916 929 9290 T
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Associates
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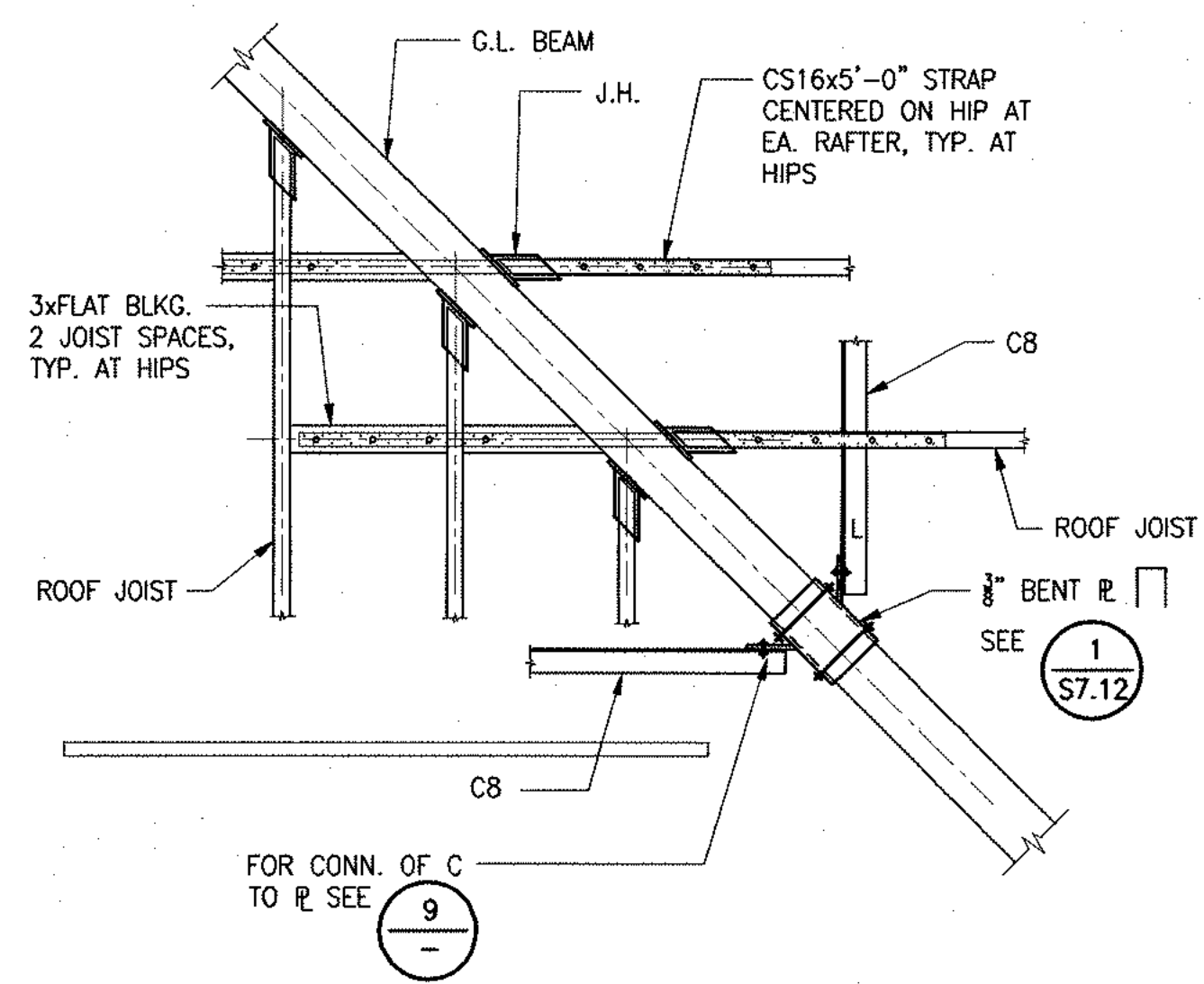
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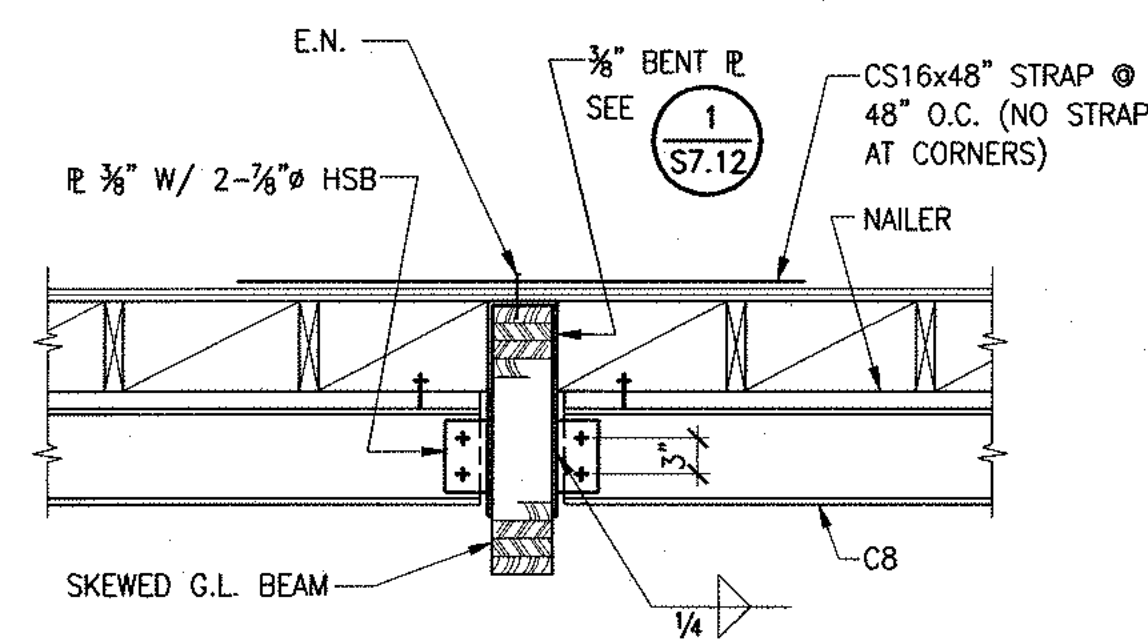
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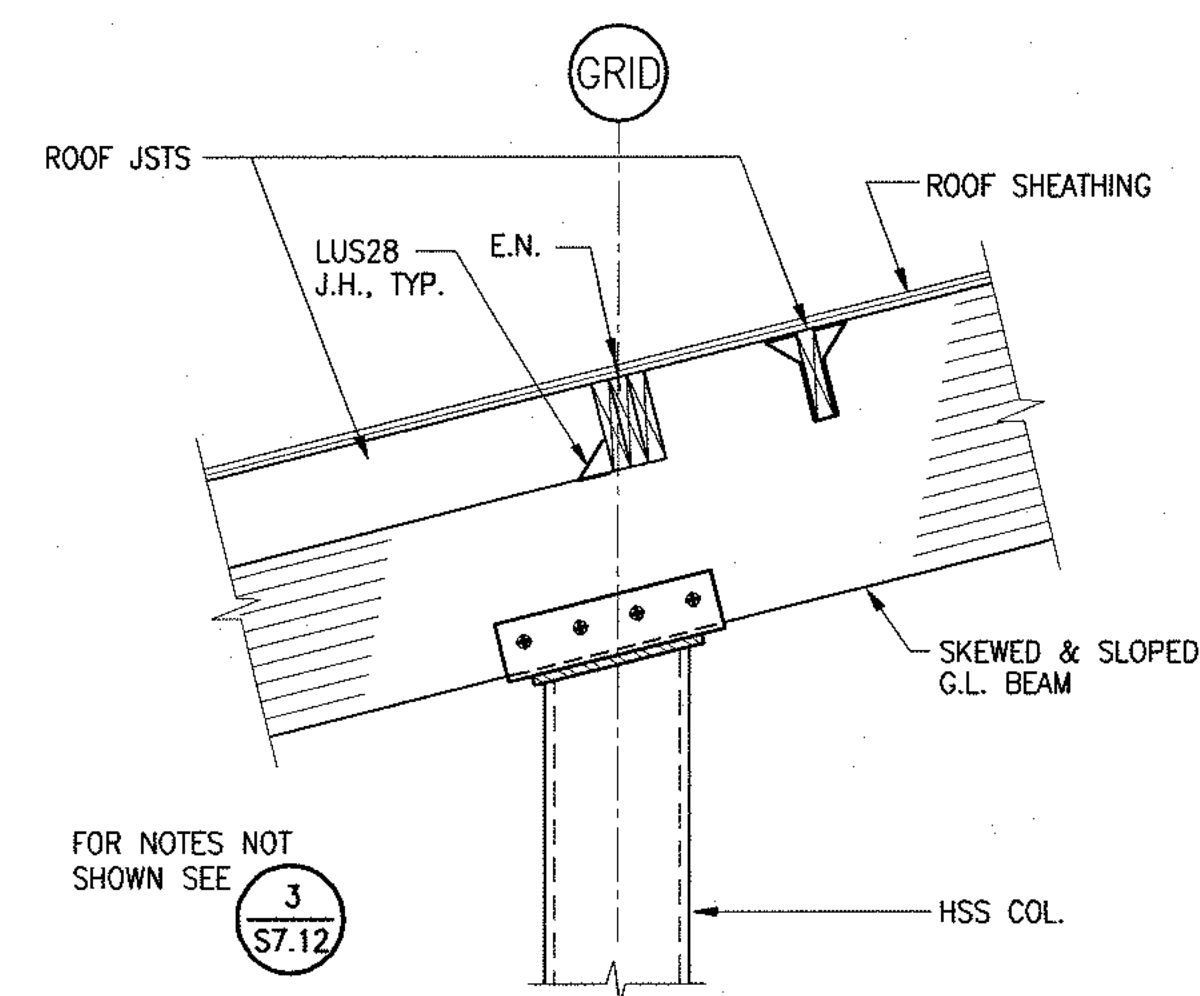
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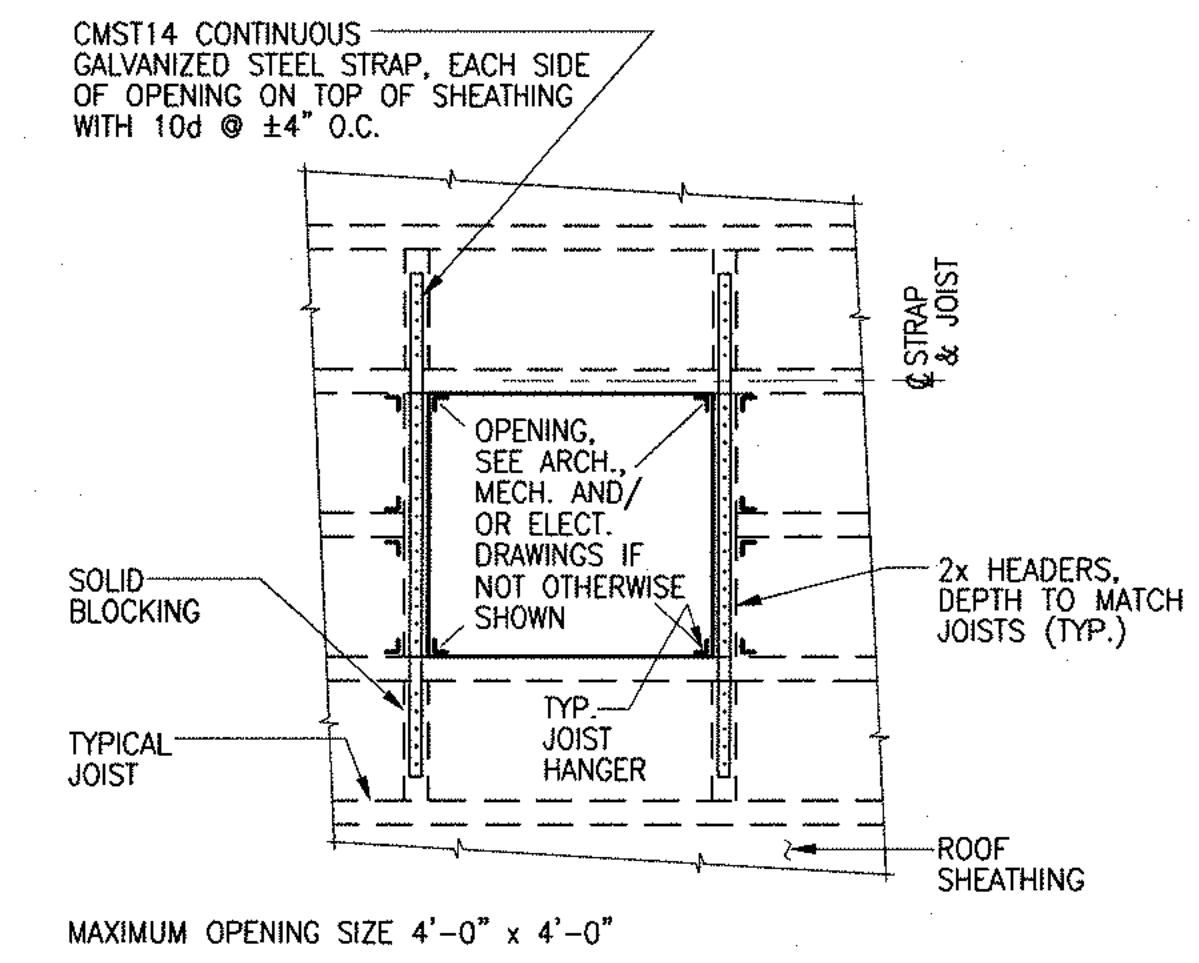
PLAN DETAIL 13
3/4"=1'-0" S9.01



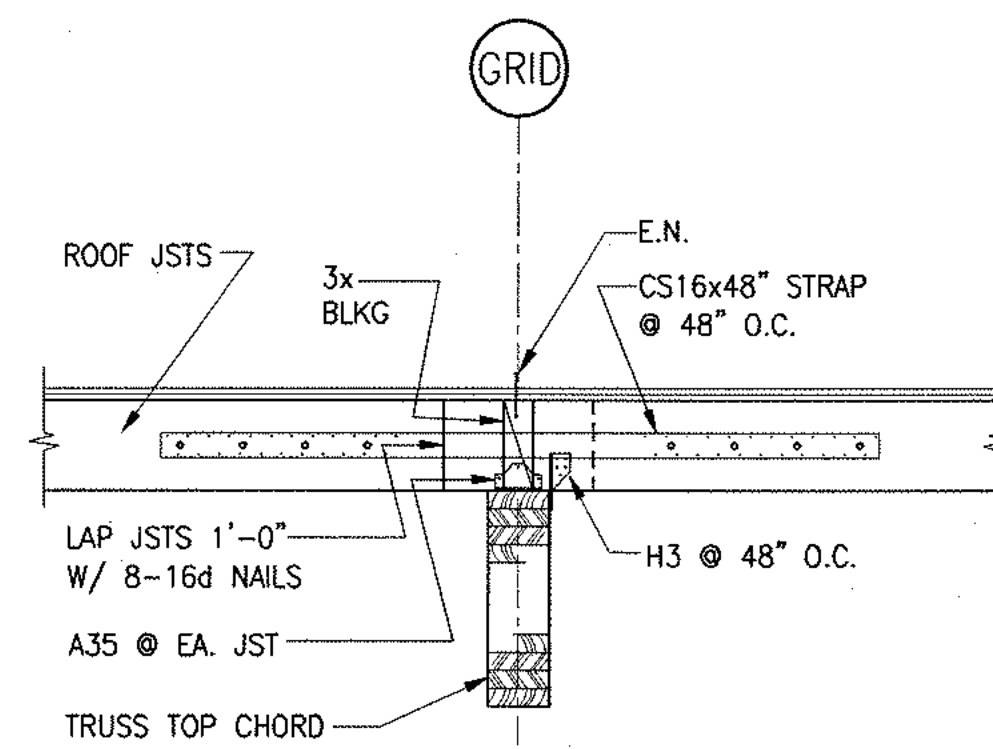
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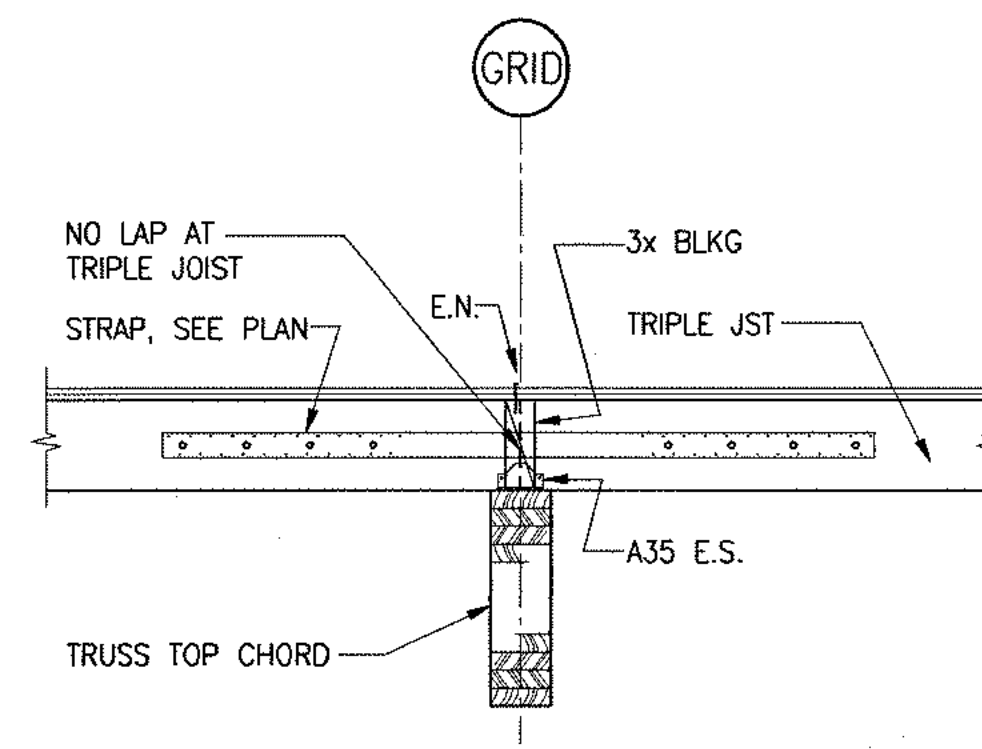
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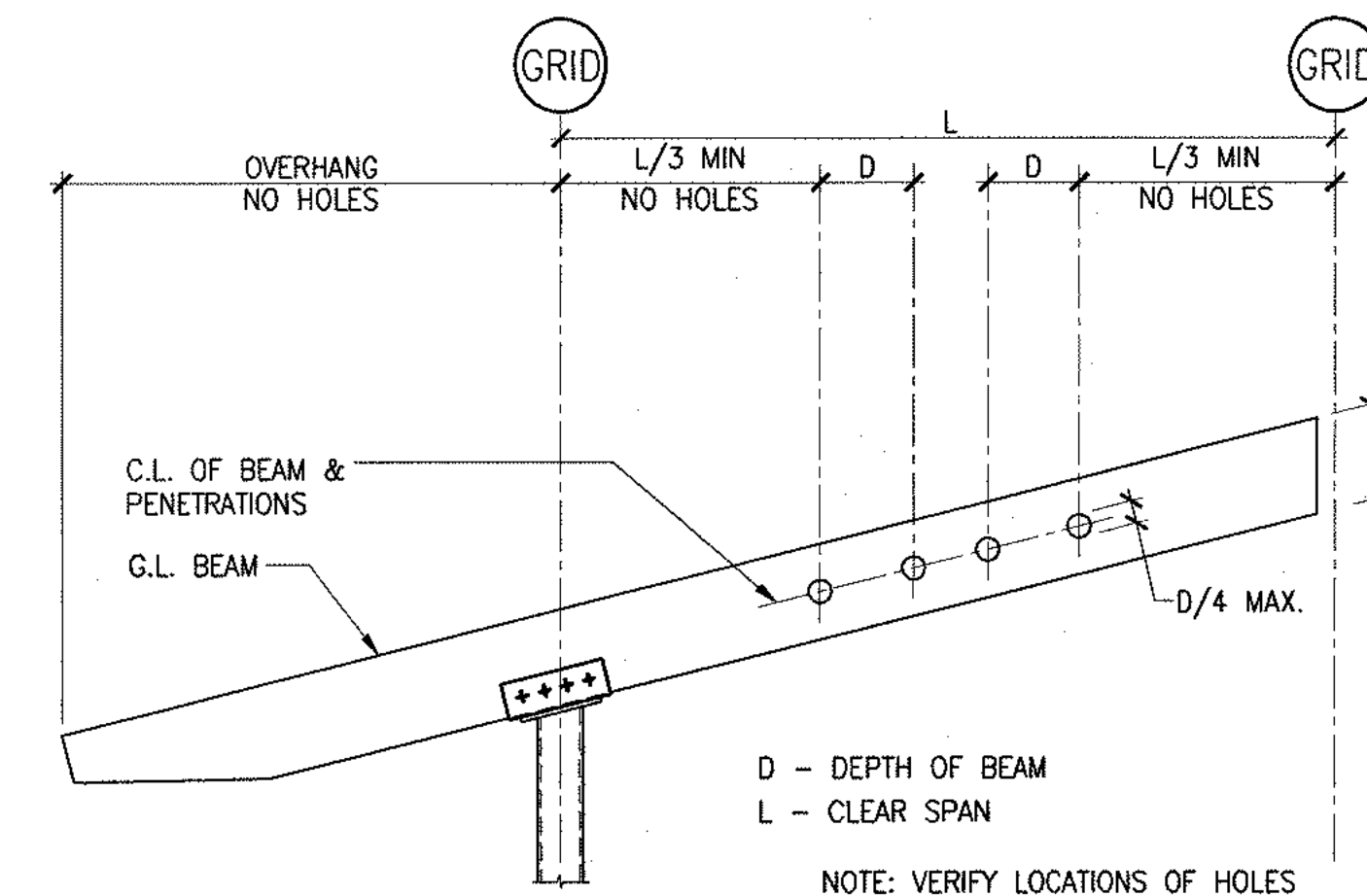
TYPICAL ROOF OPENING 1
NO SCALE S9.01



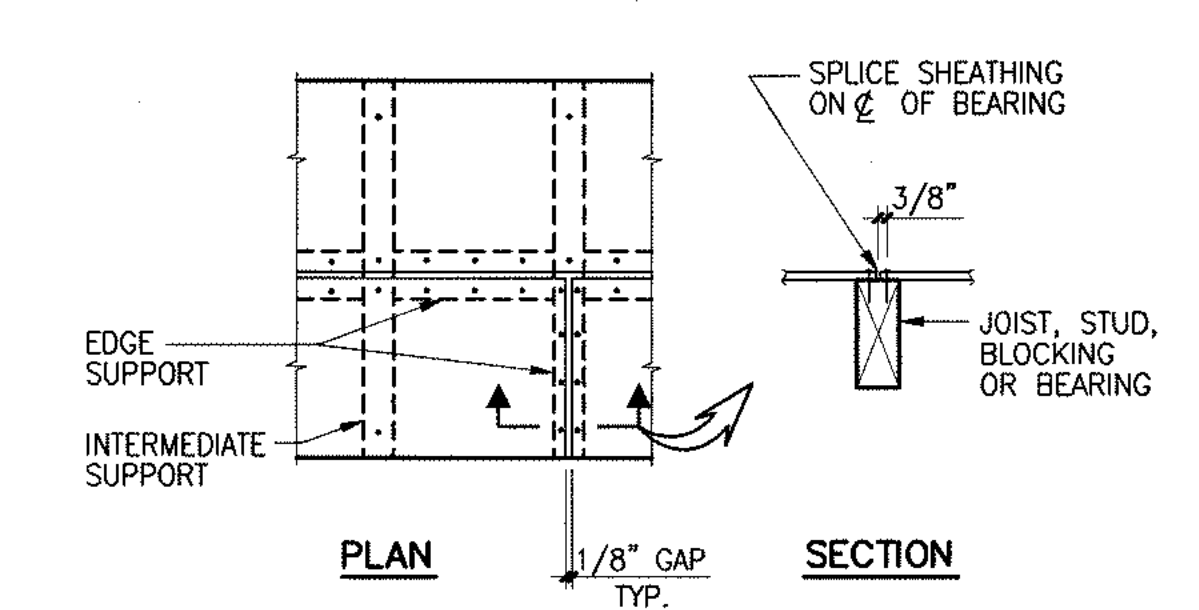
DETAIL 14
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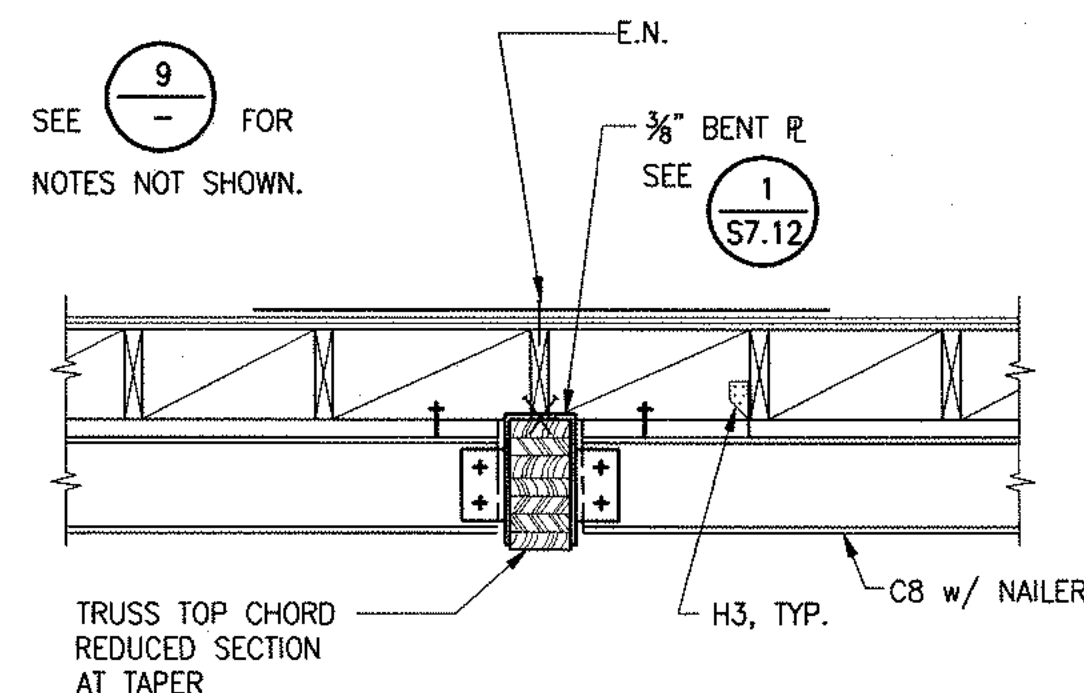
DETAIL AT STRAP 10
3/4"=1'-0" S9.01



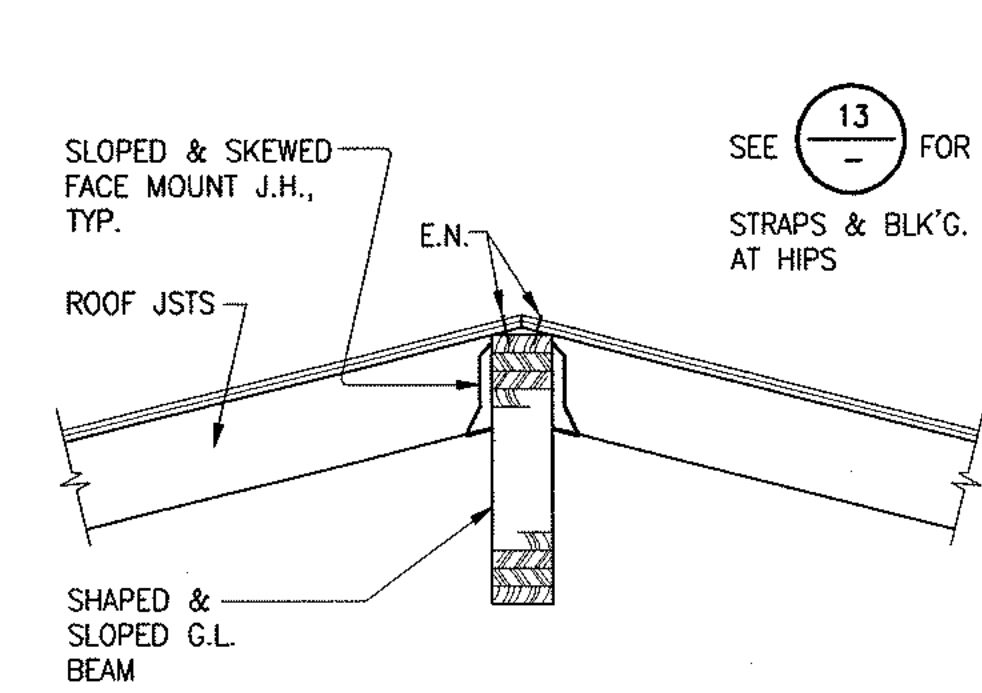
ALLOWABLE HOLES IN GLULAM HIP BEAMS 6
NO SCALE S9.01



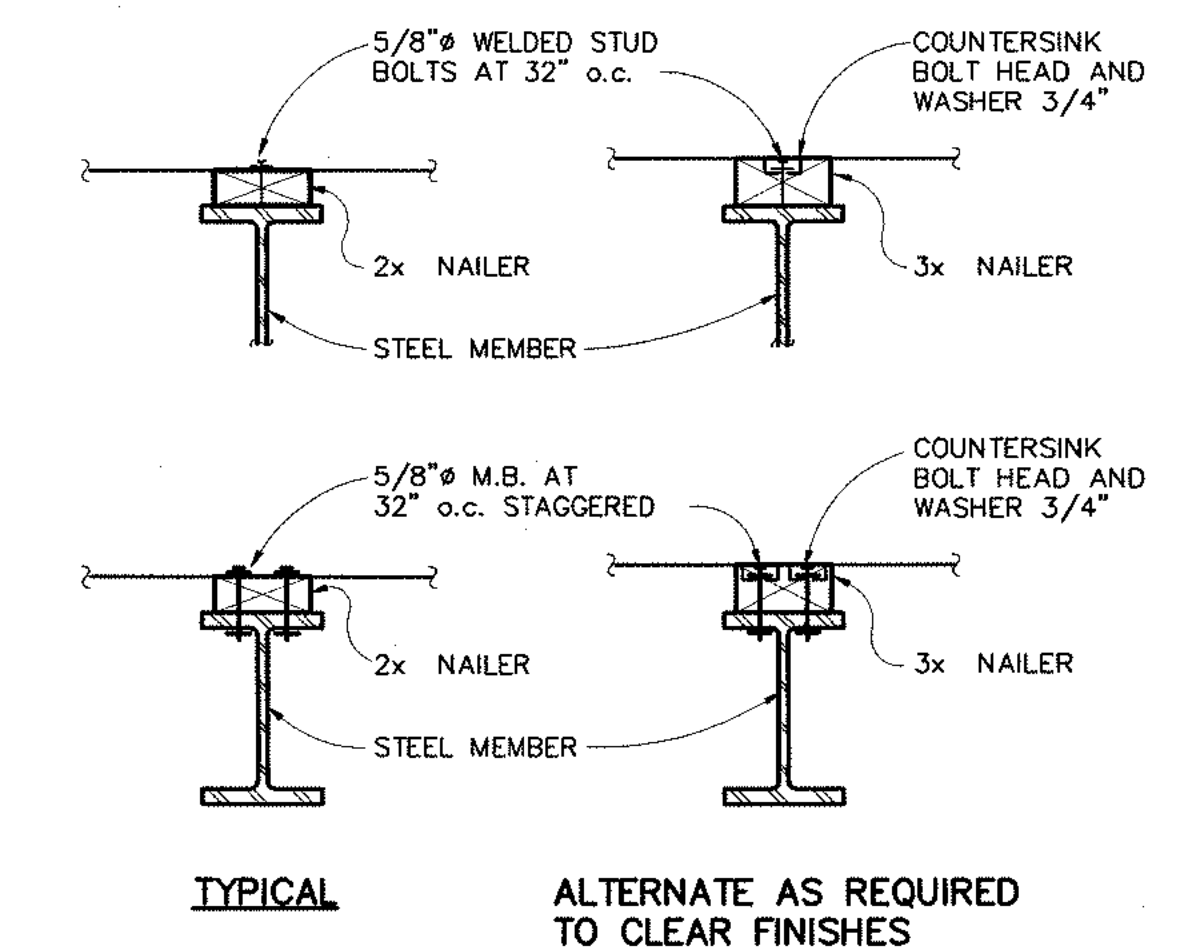
TYPICAL STRUCTURAL SHEATHING 2
NO SCALE S9.01



DETAIL 15
3/4"=1'-0" S9.01

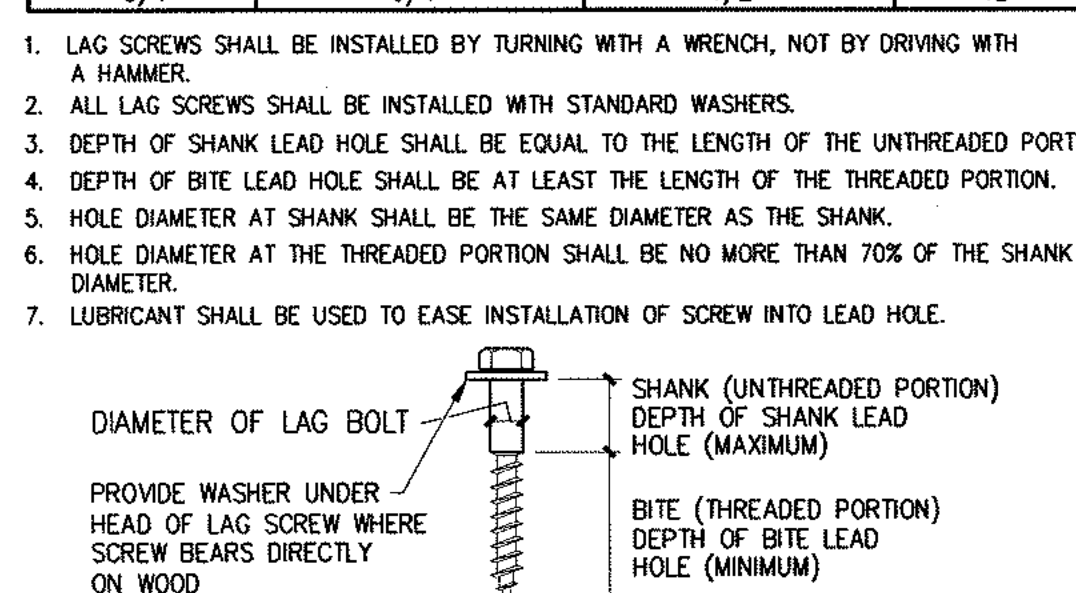


DETAIL AT HIP 11
3/4"=1'-0" S9.01

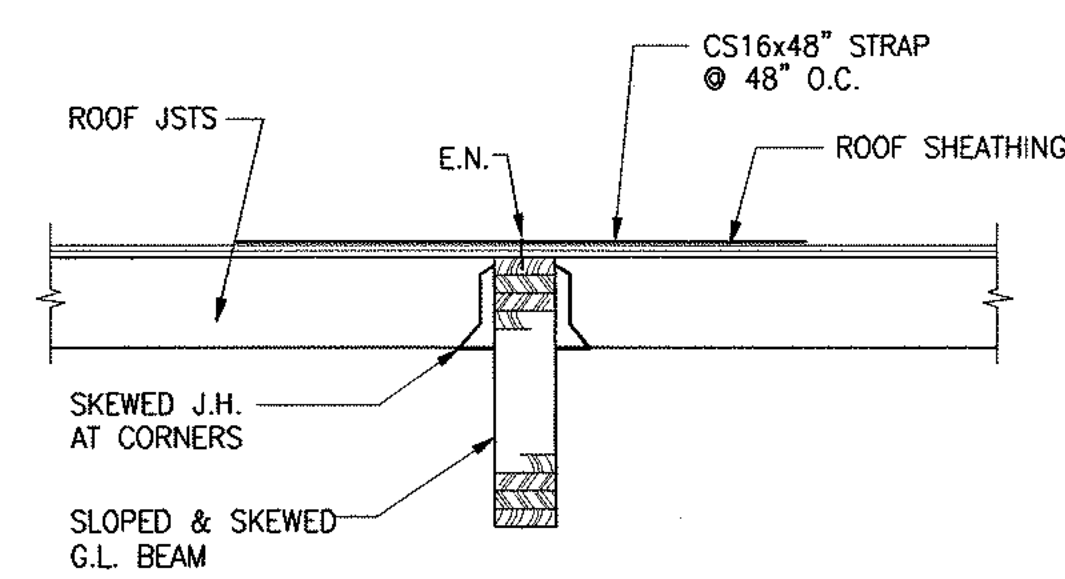


TYP. NAILER TO STEEL MEMBER 3
NO SCALE S9.01

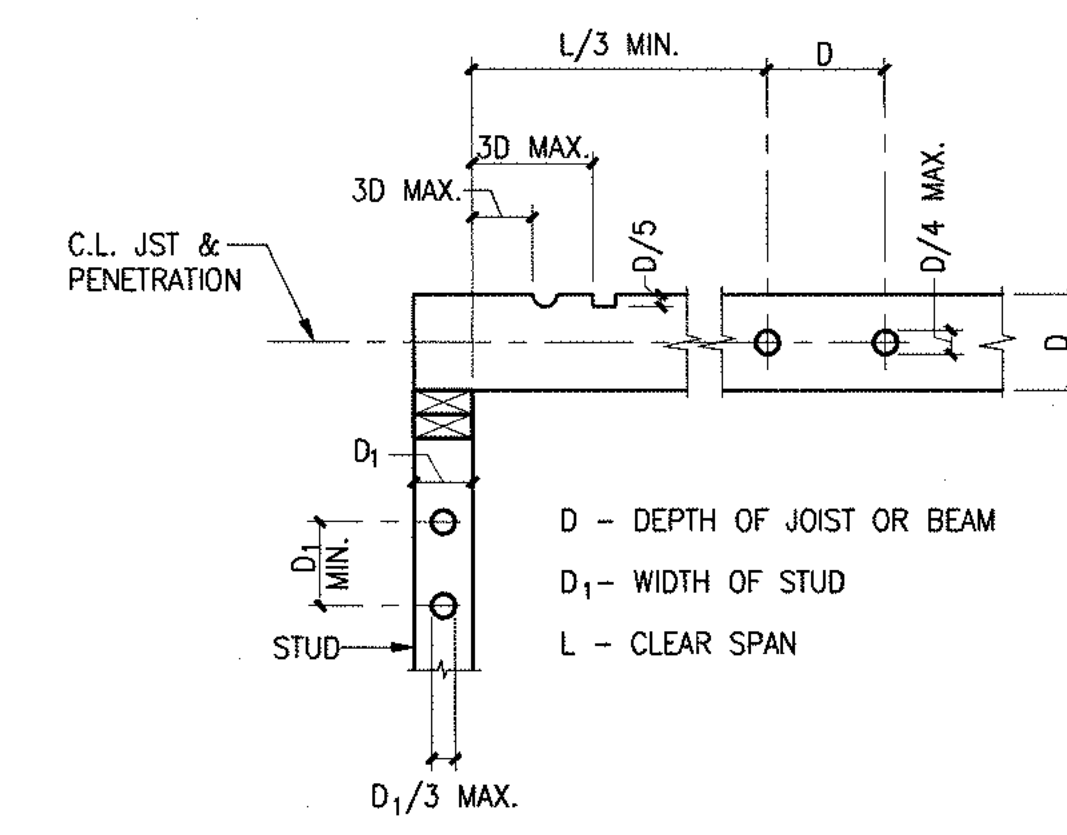
LEAD HOLE DIAMETER FOR LAG BOLTS			
NOMINAL DIAMETER OF LAG BOLT (INCHES)	SHANK LEAD HOLE DIAMETER (INCHES) SEE NOTE 3	BITE LEAD HOLE DIAMETER (INCHES) SEE NOTE 4	MINIMUM PENETRATION U.O.M.
3/8	3/8	1/4	8"
1/2	1/2	5/16	8"
5/8	5/8	13/32	8"
3/4	3/4	1/2	12"



TYPICAL LAG SCREW DETAIL 8
NO SCALE S9.01



DETAIL AT G.L. BEAM 12
3/4"=1'-0" S9.01



HOLES AND NOTCHES IN WOOD JOIST OR BEAM 4
NO SCALE S9.01

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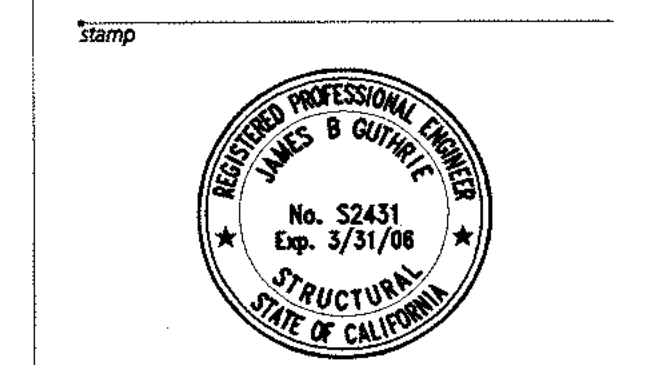
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ABBREVIATIONS	
OAI	OUTSIDE AIR INTAKE
OB	OPOSED BLADE DAMPER
OD	OUTSIDE DIMENSION
P	PUMP
PD	PRESSURE DROP
PHC	PREHEAT COIL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R	RISE
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RF	RETURN FAN
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SD	SMOKE DAMPER
SENS	SENSIBLE
SF	SUPPLY FAN OR SQUARE FEET
SM	SHEET METAL
SP	STATIC PRESSURE
ST	SOUND TRAP (SOUND ATTENUATOR)
TK	TANK
TR	TOP REGISTER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WB	WET BULB
WG	WATER GAUGE
WO 12X12	WALL OPENING (SIZE)
WMS	WIRE MESH SCREEN
(300)	300 CUBIC FEET PER MINUTE OF AIR
(X)	EXISTING TO BE REMOVED

ABBREVIATIONS	
ABV	ABOVE
ACU	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
B	BOILER
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CO	CLEAN OUT (DOOR)
COMP	COMPRESSOR
CR	CEILING REGISTER
CU	CONDENSING UNIT
D	DROP
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
F	FILTER
'F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FLR	FLOOR
FPB	FAN POWER BOX
FPI	FINS PER INCH
FRE	FIRE RATED ENCLOSURE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HP	HORSE POWER
HP	HEAT PUMP
HR	HOUR
HW	HEATING WATER
ID	INSIDE DIMENSION
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER (CEILING, WALL, SILL & FLOOR)
LRA	LOCKED ROTOR AMPERES
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURER
MIN	MINIMUM
MUA	MAKE UP AIR UNIT
(N)	NEW
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN CONTRACT
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE

LEGEND	
	SLOPING RISE IN DUCTWORK
	SLOPING DROP IN DUCTWORK
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	ROUND DUCT DIAMETER SIZE
	OVAL DUCT SIZE
	ACOUSTIC LINING IN DUCT (SIZE NOTED INDICATES INSIDE DIMENSIONS)
	FLEXIBLE CONNECTION IN DUCT
	FLEXIBLE DUCT
	VOLUME DAMPER IN DUCT
	AUTOMATIC LOUVER DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
	SMOKE DAMPER WITH DUCT ACCESS DOOR
	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
	BACK DRAFT DAMPER WITH DUCT ACCESS DOOR
	DUCT ACCESS DOOR
	ELBOW WITH TURNING VANES
	DUCT SPLIT WITH SPLIT SIZE
	BRANCH TAKEOFF WITH BALANCING DAMPER
	RADIUS ELBOW
	DUCT MOUNTED HEATING COIL, WITH DUCT ACCESS DOOR UPSTREAM OF HEATING COIL.
	SLOT DIFFUSER
	TERMINAL UNIT WITH HEATING COIL
	CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	RETURN REGISTER OR GRILLE
	RETURN REGISTER OR GRILLE WITH FLEXIBLE DUCT CONNECTION
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF CONNECTION TO EXISTING WORK
	THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	WIRELESS THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	DUCT SMOKE DETECTOR SUPPLIED BY DIVISION 16, INSTALLED BY DIVISION 15.
	CARBON DIOXIDE SENSOR
	LOUVER DOOR (SQUARE FEET INDICATED)
	SQUARE FEET
	FLOW SWITCH
	AIR FLOW MEASURING STATION

LEGEND	
	HOT WATER SUPPLY
	HOT WATER RETURN
	ARROW INDICATES DIRECTION OF FLOW
	DRAIN LINE
	VENT LINE
	PIPE ANCHOR
	PIPE GUIDE
	PIPE EXPANSION JOINT
	EXPANSION LOOP (SIZE)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	DIRT POCKET
	1/2" TYPE STRAINER
	1/2" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPED CHANGED IN PIPE ELEVATION
	PITCH PIPE DOWN IN DIRECTION OF FLOW
	PUMP
	PIPING FLEXIBLE CONNECTION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	LUBRICATED PLUG VALVE
	AUTOMATIC FLOW CONTROL VALVE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER WELL
	THERMOMETER
	PRESSURE GAUGE AND GAUGE COCK
	DETAIL DESIGNATION
	TERMINAL UNIT DESIGNATION
	EQUIPMENT DESIGNATION
	AIR OUTLET/INLET DEVICE DESIGNATION
	SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION
	RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION
	TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)
	WALL OPENING IN WALL ABOVE HUNG CEILING (SIZE)
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT UP
	RECTANGULAR RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT, UP
	ROUND DUCT, DOWN
	BEAM PENETRATION

DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	SCALE
M0.10	LEGEND AND ABBREVIATIONS	NONE
M1.10	SCHEDULES	NONE
M1.20	SCHEDULES AND TITLE 24	NONE
M1.21	TITLE 24	NONE
M2.10	LIBRARY FIRST FLOOR PLAN	1/8"=1'-0"
M2.11	LIBRARY SECOND FLOOR PLAN	1/8"=1'-0"
M2.12	LIBRARY ROOF PLAN	1/8"=1'-0"
M2.21	COMMUNITY HALL FIRST FLOOR AND ROOF PLAN	VARIES
M4.10	FLOW DIAGRAM	NONE
M5.10	DETAILS	NONE
M5.20	CONTROL DIAGRAMS	NONE

899 Market Street, 3rd Floor, San Francisco, CA 94103
 415 546 0400 T
 415 862 7081 F
 www.snmw.com

SNMWA
 architecture
 interiors
 planning
 graphic design

City of
 Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3333 F

Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95075
 916 435 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

Forel/Elesser
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

Flack + Kurtz
 405 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415 398 3833 T
 415 433 5311 F

Architectural
 Lighting Design
 270 Harnett Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

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SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																		
DESIGNATION	MODEL NO.	COOLING CAPACITY (BTU/H)	ENTERING AIR TEMPERATURE		CFM	ESP (IN WG)	VOLTAGE/PHASE	OPERATING WEIGHT (LBS)	PIPE SIZE	MCA (AMPS)	MCOP (AMPS)	DESIGNATION	MODEL NO.	MCA (AMPS)	MCOP (AMPS)	OPERATING WEIGHT (LBS)	VOLTAGE/PHASE	REMARKS
			DB °F	WB °F														
FC-1	47 CARRIER 40QNB018	17,300	80	67	480	0.0	208/1	39	LIQUID LINE = 3/8"; GAS LINE=3/8"	0.66	15	ACC-1	CARRIER 38HDC018	10.7	15	150	208/1	
FC-2	CARRIER 40QNB018	17,300	80	67	480	0.0	208/1	39	LIQUID LINE = 3/8"; GAS LINE=3/8"	0.66	15	ACC-2	CARRIER 38HDC018	10.7	15	150	208/1	
FC-3	73 CARRIER 40QNB018	17,300	80	67	480	0.0	208/1	39	LIQUID LINE = 3/8"; GAS LINE=3/8"	0.66	15	ACC-3	CARRIER 38HDC018	10.7	15	150	208/1	
FC-4	CARRIER 40QNB018	11,500	80	67	480	0.0	208/1	38.5	LIQUID LINE = 3/8"; GAS LINE=3/8"	0.66	15	ACC-4	CARRIER 38HDS024	16.8	25	159	208/1	
FC-5	CARRIER 40QNB018	14,000	80	67	480	0.0	208/1	38.5	LIQUID LINE = 3/8"; GAS LINE=3/8"	0.66	15							

NOTE: ACC-4 IS A MULTI-SPLIT CONDENSER FOR FC-4 AND FC-5. PROVIDE: 1. UNIT MOUNTED DISCONNECT FOR FC & ACC. 2. WALL-MOUNTED PROGRAMMABLE THERMOSTAT/ELECTRONIC CONTROLS. 3. MOUNT OUTDOOR UNIT WITH VIBRATION ISOLATORS & ROOF SUPPORTS. 4. FLASHING FOR REFRIGERANT PIPING. COORDINATE WITH ARCHITECT. 5. CONTROL WIRING BETWEEN ACC'S AND FC'S. 6. POWER WIRING FROM ACC'S TO FC'S. 7. CONDENSATE PUMP FOR FC-2. 8. PROVIDE WINTER START CONTROL & LOW TEMPERATURE AMBIENT CONTROLS CAPABLE OF PROVIDING COOLING TO 25°F.

FAN SCHEDULE														
DESIGNATION	LOCATION/SERVICE	MODEL NUMBER	TYPE	CFM	STATIC PRESSURE (IN WG)	WHEEL SIZE (IN)	RPM	BHP (WATTS)	MOTOR		REMARKS			
									HP	VOLTAGE/PHASE				
EF-1	GROUND FLOOR/TOILET	PENN SK15SBC	BELT DRIVE INLINE	2075	0.65	15	1002	0.45	1/2	208/3				
EF-2	GROUND FLOOR/MISC.	PENN SK15SBC 121	BELT DRIVE INLINE	1560	0.65	15	885	0.3	1/3	120/1				
EF-3	ROOFTOP/MISC.	PENN DX14B	BELT DRIVE BOMEX	1320	1.0	14	1170	0.42	1/2	208/3				
EF-4	ROOFTOP/TOILET	PENN D10	BELT DRIVE UTILITY SET	600	0.75	11.25	1381	0.16	1/4	120/1				
EF-5	GROUND FLOOR/TOILET	PENN ZB15(TDA)	INLINE CABINET	250	0.25	8	1050	(84)	1/6	120/1				
EF-6	GROUND FLOOR/TOILET	PENN ZB15(TDA)	INLINE CABINET	250	0.25	8	1050	(84)	1/6	120/1				
EF-7	GROUND FLOOR/MISC.	PENN ZB15(TDA)	INLINE CABINET	280	0.25	8	1050	(84)	1/6	120/1				
EF-8	FOUNTAIN PUMP VAULT	PENN REX06JX	DIRECT DRIVE INLINE	150	0.75	6	2800	(147)	1/4	120/1	1			
EF-9	RM 110/RM 150	TWIN CITY FIBER-AIRE 12WA3	DIRECT DRIVE UPBLAST	900	0.625	12	1725	0.21	1/4	120/1	2,3			

NOTE: 1. NOTE NOT USED. 2. FIBERGLASS REINFORCED PLASTIC HOUSING WITH POLYPROPYLENE WHEEL. 3. SPEED CONTROLLER.

PUMP SCHEDULE													
DESIGNATION	LOCATION	SERVICE	B&G MODEL NUMBER	TYPE	GPM	HEAD (FT H ₂ O)	MINIMUM EFFICIENCY (PERCENT)	CASING PRESSURE (PSIG)	MOTOR				REMARKS
									RPM	BHP	NON-OVERLOADING HP	VOLTAGE/PHASE	
P-1	BOILER/ROOF	HEATING HW	1531-SERIES	END SUCTION	58	88	50.1	150	1750	2.58	5	208/3	2x 1 1/2 x 8 3/4
P-2	BOILER/ROOF	HEATING HW	1531-SERIES	END SUCTION	58	88	50.1	150	1750	2.58	5	208/3	STANDBY, 2x 1 1/2 x 8 3/4

SOUND ATTENUATOR SCHEDULE							
DESIGNATION	IAC MODEL NUMBER (UON)	CAPACITY (CFM)	MODULE SIZE L x W x H (INCHES)	FACE VELOCITY (FPM)	PD (IN WG)	WEIGHT (LBS)	REMARKS
ST-1	VIBRO-ACOUSTICS 84x72 RD-LV-F1 x 36	36,000	36x84x72	750	0.15	806	
ST-2	3LFM	38,500	36x84x54	1142	0.26	414	3LFM
ST-3							NOT USED
ST-4	3LFL	3,170	36x36x18	704	0.04	83	
ST-5	3LFL	3,170	36x36x18	704	0.04	83	
ST-6	3LFS	4,950	36x60x12	990	0.55	100	
ST-7	5LFS	4,950	36x30x24	825	0.44	121	
ST-8	3LFL	1,290	36x12x18	860	0.03	33	
ST-9	3LFL	1,190	36x18x12	795	0.03	33	
ST-10	3LFL	1,860	36x12x24	930	0.02	41	
ST-11	3LFS	1,860	36x24x12	930	0.50	42	
ST-12	3LFS	1,850	36x24x12	925	0.50	42	
ST-13	3LFL	1,850	36x30x12	740	0.02	46	
ST-14	3LFL	6,000	36x24x24	1,500	0.19	60	11.3

NOTE: 1. ASSEMBLE NOMINAL MODULE SIZES TO BUILD OVERALL SIZE AS SCHEDULED. PROVIDE DUCT TRANSITIONS IF REQUIRED.

DIRECT EXPANSION ROOFTOP AIR CONDITIONING UNIT SCHEDULE (COOLING ONLY)																																							
DESIGNATION	TOTAL AIR QUANTITY (CFM)	MINIMUM OUTSIDE AIR QUANTITY (CFM)	FILTERS						DX COOLING COIL				SUPPLY FANS			EXHAUST/RETURN FANS			ELECTRICAL DATA		REFRIGERATION SECTION DATA						TRADE MODEL NO.												
			THICKNESS (INCH)	MINIMUM MERV	INITIAL PD (IN WG)	FINAL PD (IN WG)	TOTAL FACE AREA (FT²)	DRY BULB	WET BULB	DRY BULB	WET BULB	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	FACE AREA (FT²)	ROWS/FT/ # OF COILS	CFM (IN WG)	FAN SPEED (RPM)	SIZE (INCH)	TOTAL BHP	MOTOR HP	EXHAUST/RETURN AIR QUANTITY (CFM)	ESP (IN WG)	NO. OF FANS	FAN SPEED (RPM)	SIZE (INCH)	TOTAL BHP		MOTOR HP	VOLTAGE/PHASE	TOTAL MCA (AMPERES)	MAXIMUM OVERCURRENT PROTECTION (AMPERES)	REFRIGERANT	# OF COMPRESSORS	STEPS OF CAPACITY	AMBIENT TEMP (°F)	# OF COND FANS	MOTOR HP/RPM	SIZE (INCHES)	MAXIMUM WEIGHT (LBS)
AC-1	38,500	10,400	4+24	7+13	0.55	1.0	81	80.0	67.0	56.8	56.6	1,366	1,068	59.3	5/10/12	2.8	1534	-	65.14	75	36,000	1.0	1	788	-	35.29	40	208/3	831.8	1000	22	4	8	95	10	1/140	26	17,010	SLH6012ECJR

NOTES: 1. FACTORY ETL LISTING FOR ENTIRE UNIT INCLUSIVE OF ALL COMPONENTS. 2. MAXIMUM MOTOR HP LISTED ARE SELECTED AT THE DIRTY FILTER PRESSURE DROP. 3. PROVIDE SPRING ISOLATION ROOF CURB WITH SEISMIC RESTRAINT TYPE 1. 4. VFD ON SUPPLY AND RETURN FAN. 5. DEMAND CONTROL VENTILATION WITH CO₂ SENSOR. 6. PROVIDE TYPE "B" & TYPE "C" FILTERS.

HOT WATER BOILER SCHEDULE															
DESIGNATION	SERVICE/LOCATION	TELEDYNE LARS MODEL NUMBER	TYPE	NATURAL GAS PRESSURE IN WG	INPUT (MBH)	OUTPUT (MBH)	GPM	EWT(°F)	LWT(°F)	PRESS. DROP (FT H ₂ O)	PRESS. RATING (PSIG)	FLUE SIZE (INCHES)	FAN MOTOR HP	OPERATING WEIGHT (LBS)	REMARKS
B-1	HEATING/ROOF	PH1200	FORCED AIR	4-14	1200	984	58.0	190	160	5.0	150	2 φ 8	1/4	4,500	PACKAGED, SKID-MOUNTED WITH PUMPS P-1, P-2.

HEAT PUMP SCHEDULE																							
DESIGNATION	MANUFACTURER	MODEL NUMBER	CFM	MINIMUM OA CFM	ESP (IN WG)	COOLING				LAT (°F)	REFRIGERANT	CONDENSER			HEATING			MCA	VOLTAGE/PHASE	MCOP	OPERATING WEIGHT (LBS)	REMARKS	
						CAPACITY		EAT				HP	FAN SPEED (RPM)	CAPACITY (MBH)	EAT (°F)	LAT (°F)							
						TOTAL MBH	SENSIBLE MBH	DB (°F)	WB (°F)														
HP-1	SKIL-AIRE	PAH120-H3	3,170	2,280	0.7	107.9	84.2	82.2	65.3	55	R-22	95	6000	5	3600	108.0	43.7	74.4	70.4	208/3	90	1900	1,2
HP-2	SKIL-AIRE	PAH180-H3	4,950	1,800	0.6	168.7	141.0	81.0	64.3	55	R-22	95	6300	5	3600	87.5	57.8	73.7	96.5	208/3	120	2400	1,2,3
HP-3	CARRIER	50HJ006	1,860	525	0.8	52.0	50.3	79.2	61.5	55	R-22	95	1880	1.2	1188	36.1	61.1	78.4	28.9	208/3	30	590	1,2,3
HP-4	CARRIER	50HJ005	1,290	525	0.8	41.1	33.4	79.1	63.8	55	R-22	95				36.6	56.1	81.6	22.5	208/3	25	550	1,2,3
HP-5	CARRIER	50HJ005	1,850	210	0.6	57.2	53.2	80.9	63.0	55	R-22	95				12.0	67.0	72.8	32.8	208/3	35	610	1,2,3
HP-6	CARRIER	50JS018	520	105	0.5	17.1	16.1	79.1	62.5	55	R-22	95				10.8	62.7	82.1	14.0	208/3	20	299	2,3
HP-7	CARRIER	50JS018	520	180	0.6	18.1	15.7	82.5	65.4	55	R-22	95				10.8	62.7	82.1	14.0	208/1	20	299	2,3

NOTES: 1. DEMAND CONTROL VENTILATION WITH CO₂ SENSOR. 2. PROVIDE TYPE "A" FILTERS. 3. PROVIDE ECONOMISER SECTION.

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SLWAW
interiors
planning
graphic design

City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
P 408 777 3354 T
F 408 777 3333

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redwood, CA 95075
P 916 435 2400 T
F 916 435 2410

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94113
P 415 865 1811 T
F 415 865 1810

Fore/Elesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
P 415 837 0700 T
F 415 837 0800

Fleck + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
P 415 398 3833 T
F 415 439 5311

Architectural
Lighting Design
370 Brannen Street
San Francisco, CA 94107
P 415 495 4085 T
F 415 495 4660

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SCHEDULES

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M1.10

TITLE 24 MANDATORY MEASURES

EQUIPMENT AND SYSTEMS EFFICIENCY

ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE LESS THAN 400,000 BTU/HR, BOILERS, WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.

THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS AND ALL GAS-FIRED BOILERS >500,000 BTU/HR.

PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60°F AND 105°F, OR WITH HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS SECTION 123.

AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNIFORM MECHANICAL CODE.

CONTROLS

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS; INCORPORATE AN AUTOMATIC HOLIDAY "SHUT-OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICES PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING THERMOSTAT SETPOINT.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK COOLING THERMOSTAT SETPOINT.

EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE PROVIDED WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.

EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55°F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85°F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 3°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.

THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F. THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINTS STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

VENTILATION

CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.

GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.

AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1986).

OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.

SERVICE WATER HEATING SYSTEMS

IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.

LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH:

OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.

FOOT ACTIVATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.

SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.25 GALLONS/CYCLE (CIRCULATING SYSTEM).

SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLONS/CYCLE (NON-CIRCULATING SYSTEM).

SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.75 GALLONS/CYCLE (FOOT SWITCHES AND PROXIMITY SENSOR CONTROLS).

LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT OUTLET TEMPERATURE TO 110°F.

CERTIFICATE OF COMPLIANCE Part 1 of 2 MECH-1

PROJECT NAME: CUPERTINO CIVIC CENTER (LIBRARY & COMMUNITY HALL) DATE: 8/1/02
 PROJECT ADDRESS: CUPERTINO, CA
 PRINCIPAL DESIGNER/MECHANICAL: FLACK + KURTZ, INC. BLDG. PERMIT #
 TELEPHONE: (415) 398-3833
 DOCUMENTATION AUTHOR: FLACK + KURTZ, INC. CHECKED BY/DATE: Enforcement Agency Use

GENERAL INFORMATION
 DATE OF PLANS: 01/20/2003 BUILDING CONDITIONED FLOOR AREA: COMMUNITY HALL: 6,250 CLIMATE ZONE: 4
 BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/RESIDENTIAL GUEST ROOM
 PHASE OF CONSTRUCTION: NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (See 405.0.4)
 METHOD OF MECHANICAL COMPLIANCE: PRESCRIPTIVE PERFORMANCE
 PROOF OF ENVELOPE COMPLIANCE: PREVIOUS ENVELOPE PERMIT ENVELOPE COMPLIANCE ATTACHED

STATEMENT OF COMPLIANCE
 This certificate of compliance with the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.
 The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR: JEFF SACKS SIGNATURE DATE: 01/20/2003
 LIC# M27537

I, the undersigned Mechanical Designer, hereby certifies that the proposed building design represented in this set of construction documents is compliant with the other compliance items and provisions, with the specifications, and with any other conditions specified with the general application. The proposed building has been designed to meet the mechanical requirements specified in the applicable parts of Sections 110 through 115, 120 through 124, 140 through 142, 144 and 145.

PRINCIPAL MECHANICAL DESIGNER: JEFF SACKS SIGNATURE DATE: 01/20/2003 LIC# M27537

MECHANICAL MANDATORY MEASURES
 Indicate location on plans of Note block for Mandatory Measures M1.20

INSTRUCTIONS TO APPLICANT
 For detailed instructions on the use of Title 24 and of Energy Efficiency Standards compliance forms, please refer to the documentation manual published by the California Energy Commission. MECH-1: Required as input for all applications. Part 1 may be incorporated in submittals on plans. MECH-2: Required for all submittals. Part 2 may be incorporated in submittals on plans. MECH-3: Required for all submittals unless specified otherwise rates and unless otherwise shown on plans, see 4.2.4. MECH-4: Required for all submittals. MECH-5: Optional. Performance only for mechanical submittals. Nonresidential Compliance Form January 2001

CERTIFICATE OF COMPLIANCE Part 2 of 2 MECH-1

PROJECT NAME: CUPERTINO CIVIC CENTER DATE: 01/20/2003

SYSTEM NAME	AC-1	HP-1	HP-2	NOTE TO FIELD
TIME CONTROL	S	S	S	
SETBACK CONTROL	C	B	B	
ISOLATION ZONES	5	1	1	
HEAT PUMP THERMOSTAT	N	Y	Y	
ELECTRIC HEAT	N	N	N	
FAN CONTROL	Y	O	O	
VAV MINIMUM POSITION CONTROL	Y	N	N	
SMULTANEOUS HEAT/COOL	N	N	N	
HEAT AND COOL SUPPLY RESET	Y	N	N	
HEAT REJECTION CONTROL	D	D	D	
VENTILATION	A	G	G	
OUTDOOR DAMPER CONTROL	A	A	A	
ECONOMIZER TYPE	A	A	A	
DESIGN O.A. CFM (MECH-3, COLUMN H)	10,400			
HEATING EQUIPMENT TYPE	BOILER			
HIGH EFFICIENCY? IF YES ENTER EFF. #	N			
MAKE AND MODEL NUMBER	DX	DX	DX	
COOLING EQUIPMENT TYPE	DX	DX	DX	
HIGH EFFICIENCY? IF YES ENTER EFF. #	N	N	N	
MAKE AND MODEL NUMBER	TRANSL601EC-JR	SKILAIRE-PAH120H3	SKILAIRE-PAH180H3	
PIPE INSULATION REQUIRED	Y	N/A	N/A	
PIPE/DUCT INSULATION PROTECTORY	Y	Y	Y	
PIPE TYPE (SUPPLY, RETURN, ETC.)	S-R	N/A	N/A	
HEATING DUCT LOCATION R-VALUE	4.3	4.3	4.3	
COOLING DUCT LOCATION R-VALUE	4.3	4.3	4.3	
VENTILATED SEALED DUCTS IN FAN FLOW IN CEILING/ROOF SPACE	10X	10X	10X	

CODE TABLES: Enter code from table below into columns above.

SYSTEM NAME	TIME CONTROL	SETBACK CTRL.	ISOLATION ZONES	FAN CONTROL
HEAT PUMP THERMOSTAT	SPMG, Setback, Occupancy Sensor, Manual Timer	Relocking, Cooling, Setback	Enter number of isolation zones	SPMG Valve, Programmable Phase, VAVS, Outdoor
ELECTRIC HEAT				
VAV MINIMUM POSITION CONTROL				
SMULTANEOUS HEAT/COOL				
HEAT AND COOL SUPPLY RESET	RAV Reset, Outdoor Air Control, Manual, Air Measure, Demand Control	Auto, Occupancy, Manual Required	Auto, Occupancy, Manual Required	Auto, Occupancy, Manual Required, Outdoor Air Control, Note: This shall be as per the Code Table H in MECH-3.
HIGH EFFICIENCY				
PIPE INSULATION REQUIRED				
PIPE/DUCT INSULATION PROTECTORY				

CERTIFICATE OF COMPLIANCE Part 2 of 2 MECH-1

PROJECT NAME: CUPERTINO CIVIC CENTER DATE: 01/20/2003

SYSTEM NAME	HP-3	HP-4	HP-5	NOTE TO FIELD
TIME CONTROL	S	S	S	
SETBACK CONTROL	B	B	B	
ISOLATION ZONES	1	1	1	
HEAT PUMP THERMOSTAT	Y	Y	Y	
ELECTRIC HEAT	N	N	N	
FAN CONTROL	O	O	O	
VAV MINIMUM POSITION CONTROL	N	N	N	
SMULTANEOUS HEAT/COOL	N	N	N	
HEAT AND COOL SUPPLY RESET	N	N	N	
HEAT REJECTION CONTROL	N	N	N	
VENTILATION	D	D	D	
OUTDOOR DAMPER CONTROL	G	G	G	
ECONOMIZER TYPE	A	A	A	
DESIGN O.A. CFM (MECH-3, COLUMN H)				
HEATING EQUIPMENT TYPE				
HIGH EFFICIENCY? IF YES ENTER EFF. #				
MAKE AND MODEL NUMBER	DX	DX	DX	
COOLING EQUIPMENT TYPE	DX	DX	DX	
HIGH EFFICIENCY? IF YES ENTER EFF. #	Y SEER=10.0	Y SEER=10.0	Y SEER=10.0	
MAKE AND MODEL NUMBER	CARRIER-50J5018	CARRIER-50HJ0005	CARRIER-50HJ0005	
PIPE INSULATION REQUIRED	N/A	N/A	N/A	
PIPE/DUCT INSULATION PROTECTORY	Y	Y	Y	
PIPE TYPE (SUPPLY, RETURN, ETC.)	N/A	N/A	N/A	
HEATING DUCT LOCATION R-VALUE	4.3	4.3	4.3	
COOLING DUCT LOCATION R-VALUE	4.3	4.3	4.3	
VENTILATED SEALED DUCTS IN FAN FLOW IN CEILING/ROOF SPACE	10X	10X	10X	

CODE TABLES: Enter code from table below into columns above.

SYSTEM NAME	TIME CONTROL	SETBACK CTRL.	ISOLATION ZONES	FAN CONTROL
HEAT PUMP THERMOSTAT	SPMG, Setback, Occupancy Sensor, Manual Timer	Relocking, Cooling, Setback	Enter number of isolation zones	SPMG Valve, Programmable Phase, VAVS, Outdoor
ELECTRIC HEAT				
VAV MINIMUM POSITION CONTROL				
SMULTANEOUS HEAT/COOL				
HEAT AND COOL SUPPLY RESET	RAV Reset, Outdoor Air Control, Manual, Air Measure, Demand Control	Auto, Occupancy, Manual Required	Auto, Occupancy, Manual Required	Auto, Occupancy, Manual Required, Outdoor Air Control, Note: This shall be as per the Code Table H in MECH-3.
HIGH EFFICIENCY				
PIPE INSULATION REQUIRED				
PIPE/DUCT INSULATION PROTECTORY				

SINGLE DUCT TERMINAL WITH HOT WATER COIL SCHEDULE (TRANE VCWF)

DESIGNATION	CFM SETTING		STATIC PRESSURE LOSS AT MAXIMUM CFM (IN WG)	INLET DUCT SIZE (INCHES)	HEATING COIL				REMARKS
	MAXIMUM	MINIMUM			CAPACITY (BTU/H)	GPM	EAT (F)	LAT (F)	
VAV-1-1	540	180	0.2	8	6,900	0.5	55	89	1
VAV-1-2	630	300	0.1	10	5,800	0.4	55	85	1
VAV-1-3	1,080	320	0.2	12	16,100	1.1	55	90	1
VAV-1-4	560	160	0.2	8	6,600	0.5	55	89	1
VAV-1-5	160	60	0.1	6	3,300	0.3	55	89	1
VAV-1-6	760	230	0.2	10	12,300	0.9	55	90	1
VAV-1-7	600	240	0.2	8	12,700	0.9	55	90	1
VAV-1-8	550	160	0.2	8	13,000	0.9	55	89	1
VAV-1-9	900	900	0.2	10	25,800	1.8	55	82	1
VAV-1-10	680	200	0.2	8	14,100	1.0	55	89	1
VAV-1-11	350	100	0.2	6	5,200	0.4	55	89	1
VAV-1-12	480	140	0.2	8	5,200	0.4	55	89	1
VAV-1-13	960	280	0.3	10	9,300	0.7	55	86	1
VAV-1-14	1,140	340	0.2	12	17,900	1.2	55	90	1
VAV-1-15	1,100	330	0.2	12	15,600	1.1	55	89	1
VAV-1-16	880	260	0.2	10	10,700	0.8	55	89	1
VAV-1-17	880	260	0.2	10	10,900	0.8	55	89	1
VAV-1-18	1,010	300	0.2	12	16,100	1.1	55	86	1
VAV-1-19	1,600	480	0.1	14	17,900	1.2	55	90	1
VAV-1-20	540	160	0.2	8	20,900	1.4	55	90	1
VAV-1-21	840	300	0.2	10	4,800	0.4	55	85	1
VAV-1-22	500	300	0.2	8	4,200	0.3	55	81	1
VAV-1-23	500	210	0.2	8	5,500	0.4	55	78	1
VAV-1-24	740	220	0.2	10	16,400	1.1	55	90	1
VAV-1-25	625	210	0.2	10	16,400	1.1	55	90	1
VAV-1-26	300	160	0.2	6	2,400	0.2	55	80	1
VAV-1-27	860	250	0.2	10	5,200	0.4	55	74	1
VAV-1-28	280	80	0.1	6	1,800	0.2	55	76	1
VAV-2-1	900	300	0.2	10	19,000	1.3	55	89	1
VAV-2-2	900	270	0.2	10	19,000	1.3	55	89	1
VAV-2-3	1,550	460	0.1	14	29,400	2.0	55	89	1
VAV-2-4	980	290	0.2	12	30,900	2.1	55	89	1
VAV-2-5	980	290	0.2	12	29,800	2.0	55	89	1
VAV-2-6	800	240	0.2	10	21,700	1.5	55	90	1
VAV-2-7	680	200	0.2	8	13,800	1.0	55	90	1
VAV-2-8	630	180	0.2	8	19,400	1.3	55	90	1
VAV-2-9	-	-	-	-	-	-	-	-	NOT USED
VAV-2-10	540	160	0.2	8	7,500	0.5	55	90	1
VAV-2-11	1,520	450	0.1	14	20,800	1.4	55	89	1
VAV-2-12	240	70	0.1	6	3,400	0.3	55	90	1
VAV-2-13	920	270	0.2	10	16,100	1.1	55	90	1
VAV-2-14	700	280	0.2	8	25,700	1.8	55	89	1
VAV-2-15	930	270	0.2	10	16,000	1.1	55	89	1
VAV-2-16	930	270	0.2	10	16,000	1.1	55	89	1
VAV-2-17	1,280	380	0.2	12	20,400	1.4	55	89	1
VAV-2-18	660	190	0.3	8	7,000	0.5	55	89	1
VAV-2-19	1,520	450	0.1	14	29,100	2.0	55	90	1
VAV-2-20	1,520	450	0.1	14	29,100	2.0	55	90	1
VAV-2-21	1,520	450	0.1	14	29,100	2.0	55	90	1
VAV-2-22	460	460	0.1	8	14,100	1.0	55	83	1
VAV-2-23	1,680	500	0.1	14	21,200	1.5	55	89	1
VAV-2-24	1,680	500	0.1	14	21,200	1.5	55	89	1
VAV-2-25	1,680	500	0.1	14	21,200	1.5	55	89	1
VAV-2-26</									

MECHANICAL EQUIPMENT SUMMARY													Part 2 of 2			MECH-2		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03				
CHILLER AND TOWER SUMMARY																		
EQUIPMENT	NAME	TYPE	QTY.	EFFICIENCY	TONS	TOTAL QTY.	CFM	HP	HP	COND. EFF.	COND. EFF.	PUMP CONTROL						
N/A																		
BOILER SUMMARY																		
SYSTEM NAME	SYSTEM TYPE	DESCRIPTION	TYPE	QTY.	BHP INPUT	BHP OUTPUT	EFFICIENCY	STEAMER CODE OR PRESS.	STEAMER CODE OR PRESS.	TANK NO.	TANK EXTERNAL IN-TANK							
B-1	BOILER	REGULATING	1	1200														
CENTRAL SYSTEMS RATINGS																		
SYSTEM NAME	SYSTEM TYPE	QTY.	OUTPUT	HEATING AWT	EFFICIENCY	OUTPUT	SENDER	EFFICIENCY	TYPE									
AC-1	EX	1		1366	100%	100%			AIR									
HP-1	HEAT PUMP	1	108		107.8	84.2			AIR									
HP-2	HEAT PUMP	1	87.5		106.7	141			AIR									
HP-3	HEAT PUMP	1	36.1		52	50.3			AIR									
HP-4	HEAT PUMP	1	36.6		41.1	33.4			AIR									
HP-5	HEAT PUMP	1	13.0		37.2	53.2			AIR									
HP-6	HEAT PUMP	1	16.0		17.1	16.1			AIR									
HP-7	HEAT PUMP	1	16.8		18.1	22.5			AIR									
CENTRAL FAN SUMMARY																		
SYSTEM NAME	FAN TYPE	MOTOR LOCATION	CFM	HP	HP	EFF.	CFM	HP	HP	EFF.	HP							

MECHANICAL EQUIPMENT SUMMARY													Part 2 of 2			MECH-2		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03				
FAN SUMMARY																		
ZONE	SYSTEM	TYPE	QTY.	MIN. CFM	REPEAT TYPE	FLOW RATE	CFM	HP	MOTOR EFF.	DRIVE EFF.	TYPE	OUTPUT						
VAV-1-0	VAV	1	1.0	100	30													
VAV-1-02	VAV	1	1.0	100	30													
VAV-1-03	VAV	1	1.0	100	30													
VAV-1-04	VAV	1	1.0	100	30													
VAV-1-05	VAV	1	1.0	100	30													
VAV-1-06	VAV	1	1.0	100	30													
VAV-1-07	VAV	1	1.0	100	30													
VAV-1-08	VAV	1	1.0	100	30													
VAV-1-09	VAV	1	1.0	100	30													
VAV-1-10	VAV	1	1.0	100	30													
VAV-1-11	VAV	1	1.0	100	30													
VAV-1-12	VAV	1	1.0	100	30													
VAV-1-13	VAV	1	1.0	100	30													
VAV-1-14	VAV	1	1.0	100	30													
VAV-1-15	VAV	1	1.0	100	30													
VAV-1-16	VAV	1	1.0	100	30													
VAV-1-17	VAV	1	1.0	100	30													
VAV-1-18	VAV	1	1.0	100	30													
VAV-1-19	VAV	1	1.0	100	30													
VAV-1-20	VAV	1	1.0	100	30													
VAV-1-21	VAV	1	1.0	100	30													
VAV-1-22	VAV	1	1.0	100	30													
VAV-1-23	VAV	1	1.0	100	30													
EXHAUST FAN SUMMARY																		
ROOM NAME	FAN TYPE	MOTOR LOCATION	CFM	HP	HP	EFF.	CFM	HP	HP	EFF.	HP							

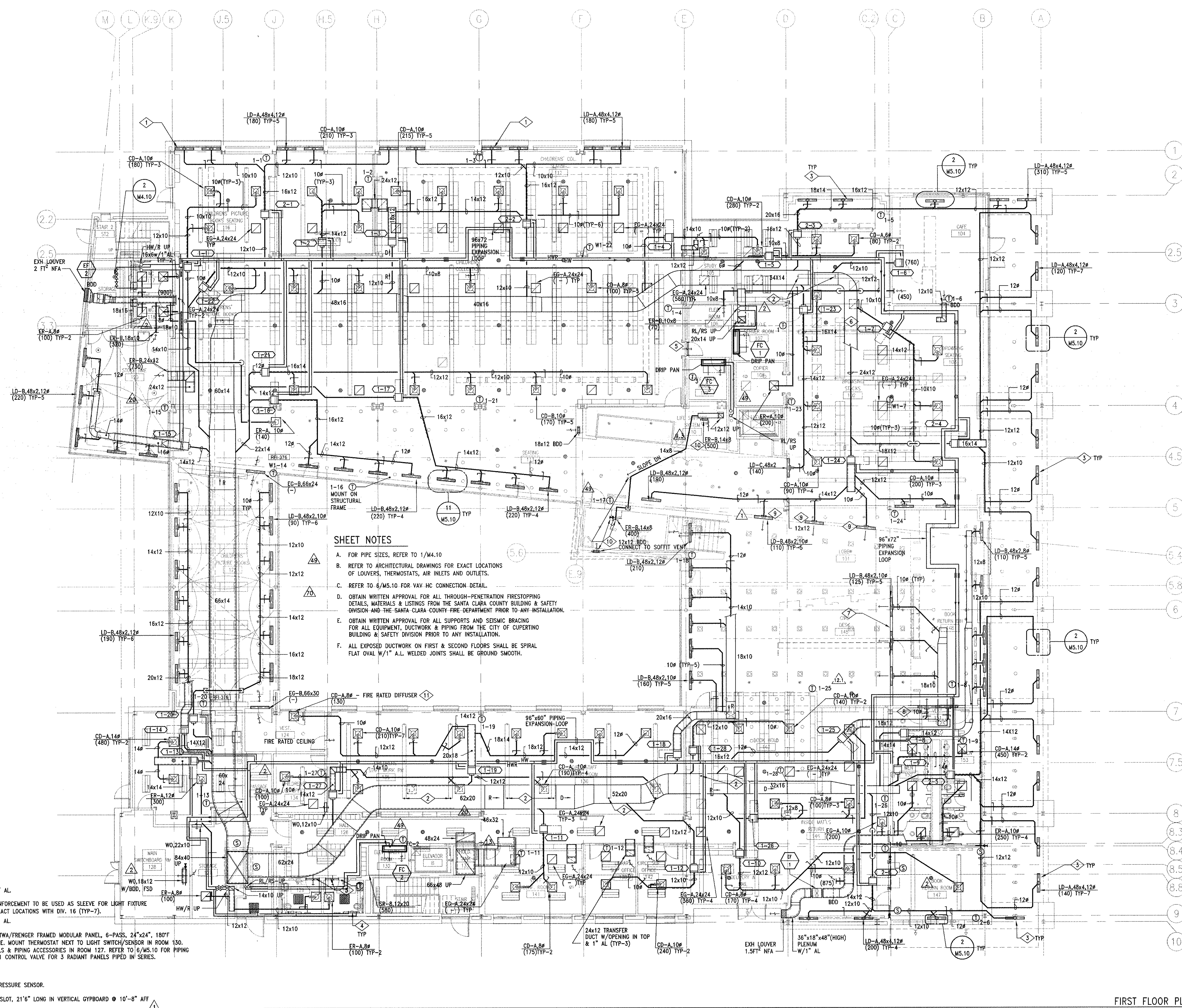
MECHANICAL VENTILATION													MECH-3		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03	
MECHANICAL VENTILATION															
ZONE/SYSTEM	COOL. AREA (SQ FT)	AREA BASIS (CFM/SQ FT)	NO. OF PEOPLE	OCCUPANCY BASIS (CFM/PERSON)	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE			
1-1	510	0.15	77	12	15	180	180	180	180	N/A	N/A	N/A			
1-2	490	0.15	89	24	15	360	360	360	360	N/A	N/A	N/A			
1-3	800	0.15	147	15	15	240	240	240	240	N/A	N/A	N/A			
1-4	330	0.15	90	6	15	90	90	90	90	N/A	N/A	N/A			
1-5	330	0.15	90	4	15	60	60	60	60	N/A	N/A	N/A			
1-6	380	0.15	87	15	15	225	225	225	225	N/A	N/A	N/A			
1-7	1,000	0.15	150	16	15	240	240	240	240	N/A	N/A	N/A			
1-8	800	0.15	120	8	15	120	120	120	120	N/A	N/A	N/A			
1-9	580	0.15	87	6	15	90	90	90	90	N/A	N/A	N/A			
1-10	990	0.15	149	6	15	90	149	149	149	N/A	N/A	N/A			
1-11	280	0.15	42	3	15	45	45	45	45	N/A	N/A	N/A			
1-12	330	0.15	50	15	15	240	240	240	240	N/A	N/A	N/A			
1-13	670	0.15	101	20	15	300	300	300	300	N/A	N/A	N/A			
1-14	600	0.15	90	12	15	180	180	180	180	N/A	N/A	N/A			
1-15	330	0.15	80	11	15	165	165	165	165	N/A	N/A	N/A			
1-16	505	0.15	76	15	15	225	225	225	225	N/A	N/A	N/A			
1-17	505	0.15	76	15	15	225	225	225	225	N/A	N/A	N/A			
1-18	600	0.15	90	6	15	75	75	75	75	N/A	N/A	N/A			
1-19	225	0.15	34	15	15	270	270	270	270	N/A	N/A	N/A			
1-20	800	0.15	120	12	15	180	180	180	180	N/A	N/A	N/A			
1-21	2,420	0.15	363	16	15	240	363	363	363	N/A	N/A	N/A			
1-22	2,420	0.15	363	8	15	120	363	363	363	N/A	N/A	N/A			
1-23	1,660	0.15	249	5	15	75	249	249	249	N/A	N/A	N/A			

MECHANICAL VENTILATION													MECH-3		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03	
MECHANICAL VENTILATION															
ZONE/SYSTEM	COOL. AREA (SQ FT)	AREA BASIS (CFM/SQ FT)	NO. OF PEOPLE	OCCUPANCY BASIS (CFM/PERSON)	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE			
2-1	860	0.15	129	20	15	300	300	300	300	300	300	300			
2-2	860	0.15	129	6	15	90	129	129	129	129	129	129			
2-3	580	0.15	87	3	15	45	105	105	105	105	105	105			
2-4	1,090	0.15	163	16	15	240	240	240	240	240	240	240			
2-5	1,090	0.15	163	16	15	240	240	240	240	240	240	240			
2-6	460	0.15	69	3	15	45	102	102	102	102	102	102			
2-7	550	0.15	83	6	15	90	98	98	98	98	98	98			
2-8	1,100	0.15	71	4	15	60	71	71	71	71	71	71			
2-9	1,100	0.15	71	4	15	60	60	60	60	60	60	60			
2-11	1,090	0.15	164	15	15	225	225	225	225	225	225	225			
2-12	130	0.15	20	2	15	30	30	30	30	30	30	30			
2-13	1,250	0.15	188	15	15	180	188	188	188	188	188	188			
2-14	1,250	0.15	188	15	15	270	270	270	270	270	270	270			
2-15	800	0.15	120	8	15	120	120	120	120	120	120	120			
2-16	860	0.15	129	10	15	150	150	150	150	150	150	150			
2-17	460	0.15	69	16	15	240	240	240	240	240	240	240			
2-18	370	0.15	56	1	15	15	56	56	56	56	56	56			

MECHANICAL VENTILATION													MECH-3		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03	
MECHANICAL VENTILATION															
ZONE/SYSTEM	COOL. AREA (SQ FT)	AREA BASIS (CFM/SQ FT)	NO. OF PEOPLE	OCCUPANCY BASIS (CFM/PERSON)	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE			
2-19	1,240	0.15	230	6	15	90	230	230	230	230	230	230			
2-20	1,545	0.15	235	4	15	60	235	235	235	235	235	235			
2-21	1,545	0.15	235	4	15	90	235	235	235	235	235	235			
2-22	350	0.15	53	10	15	150	150	150	150	150	150	150			
2-23	1,380	0.15	207	15	15	225	225	225	225	225	225	225			
2-24	1,550	0.15	233	15	15	240	240	240	240	240	240	240			
2-25	1,290	0.15	192	10	15	150	192	192	192	192	192	192			
2-26	700	0.15	105	4	15	60	105	105	105	105	105	105			
2-27	840	0.15	141	18	15	285	285	285	285	285	285	285			
2-28	140	0.15	21	2	15	30	30	30	30	30	30	30			
2-29	400	0.15	60	28	15	420	420	420	420	420	420	420			

MECHANICAL VENTILATION													MECH-3		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03	
MECHANICAL VENTILATION															
ZONE/SYSTEM	COOL. AREA (SQ FT)	AREA BASIS (CFM/SQ FT)	NO. OF PEOPLE	OCCUPANCY BASIS (CFM/PERSON)	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE			
HP-1	1,250	0.15	188	15	15	2,280	2,280	2,280	2,280	N/A	N/A	N/A			
HP-2	1,490	0.15	224	130	15	1,800	1,800	1,800	1,800	N/A	N/A	N/A			
HP-3	520	0.15	78	35	15	525	525	525	525	N/A	N/A	N/A			
HP-4	520	0.15	78	35	15	525	525	525	525	N/A	N/A	N/A			

MECHANICAL VENTILATION													MECH-3		
PROJECT NAME										CUPERTINO CIVIC CENTER		DATE		2/20/03	
MECHANICAL VENTILATION															
ZONE/SYSTEM	COOL. AREA (SQ FT)	AREA BASIS (CFM/SQ FT)	NO. OF PEOPLE	OCCUPANCY BASIS (CFM/PERSON)	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE	NO. OF PEOPLE			
HP-4	428	0.15	63	7</											



SHEET NOTES

- FOR PIPE SIZES, REFER TO 1/4.10
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LOUVERS, THERMOSTATS, AIR INLETS AND OUTLETS.
- REFER TO 6/MS.10 FOR VAV-HC CONNECTION DETAIL.
- OBTAIN WRITTEN APPROVAL FOR ALL THROUGH-PENETRATION FIRESTOPPING DETAILS, MATERIALS & LISTINGS FROM THE SANTA CLARA COUNTY BUILDING & SAFETY DIVISION AND THE SANTA CLARA COUNTY FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
- OBTAIN WRITTEN APPROVAL FOR ALL SUPPORTS AND SEISMIC BRACING FOR ALL EQUIPMENT, DUCTWORK & PIPING FROM THE CITY OF CUPERTINO BUILDING & SAFETY DIVISION PRIOR TO ANY INSTALLATION.
- ALL EXPOSED DUCTWORK ON FIRST & SECOND FLOORS SHALL BE SPIRAL FLAT OVAL W/1" A.L. WELDED JOINTS SHALL BE GROUND SMOOTH.

- NUMBERED NOTES**
- 38" HIGH PLENUM W/1/2" AL
 - PROVIDE 1" CONDUIT REINFORCEMENT TO BE USED AS SLEEVE FOR LIGHT FIXTURE HANGERS. COORDINATE EXACT LOCATIONS WITH DIV. 16 (TYP-7).
 - 20" HIGH PLENUM W/1/2" AL
 - RADIANT CEILING PANEL: TWA/FRENGER FRAMED MODULAR PANEL, 6-PASS, 24"x24", 180°F MEAN WATER TEMPERATURE. MOUNT THERMOSTAT NEXT TO LIGHT SWITCH/SENSOR IN ROOM 130. INSTALL VALVES, CONTROLS & PIPING ACCESSORIES IN ROOM 127. REFER TO 6/MS.10 FOR PIPING REQUIREMENTS. PROVIDE 1 CONTROL VALVE FOR 3 RADIANT PANELS PIPED IN SERIES.
 - 3/4" DOOR UNDERCUT
 - DUCT-MOUNTED STATIC PRESSURE SENSOR.
 - CONTINUOUS TYPE LD-B SLOT, 21'6" LONG IN VERTICAL GYPBOARD @ 10'-8" AFF
 - CONTINUOUS TYPE LD-B SLOT, 8'-0" LONG IN VERTICAL GYPBOARD @ 9'-0" AFF
 - LD-B DIFFUSER MOUNTED AT EDGE OF SOFFIT IN VERTICAL GYPBOARD @ 10'-8" AFF
 - STAINLESS STEEL DUCTWORK, GRILLES, REGISTERS, VOLUME DAMPERS, FSD, BDDs
 - TITUS MODEL PAS-FR FIRE RATED SUPPLY DIFFUSER OR EQUAL

revisions	DATE	ADDENDUM NO.
△	2003.05.07	ADDENDUM NO. 1
△	2003.05.30	ADDENDUM NO. 2
△	2003.10.21	CCD 011
△	2003.11.24	CCD 10.1
△	2003.12.19	CCD 7.3
△	2003.12.19	CCD 18
△	2004.03.30	CCD 47
△	2004.06.02	CCD 86

11-29-04 Updated
Contract Documents

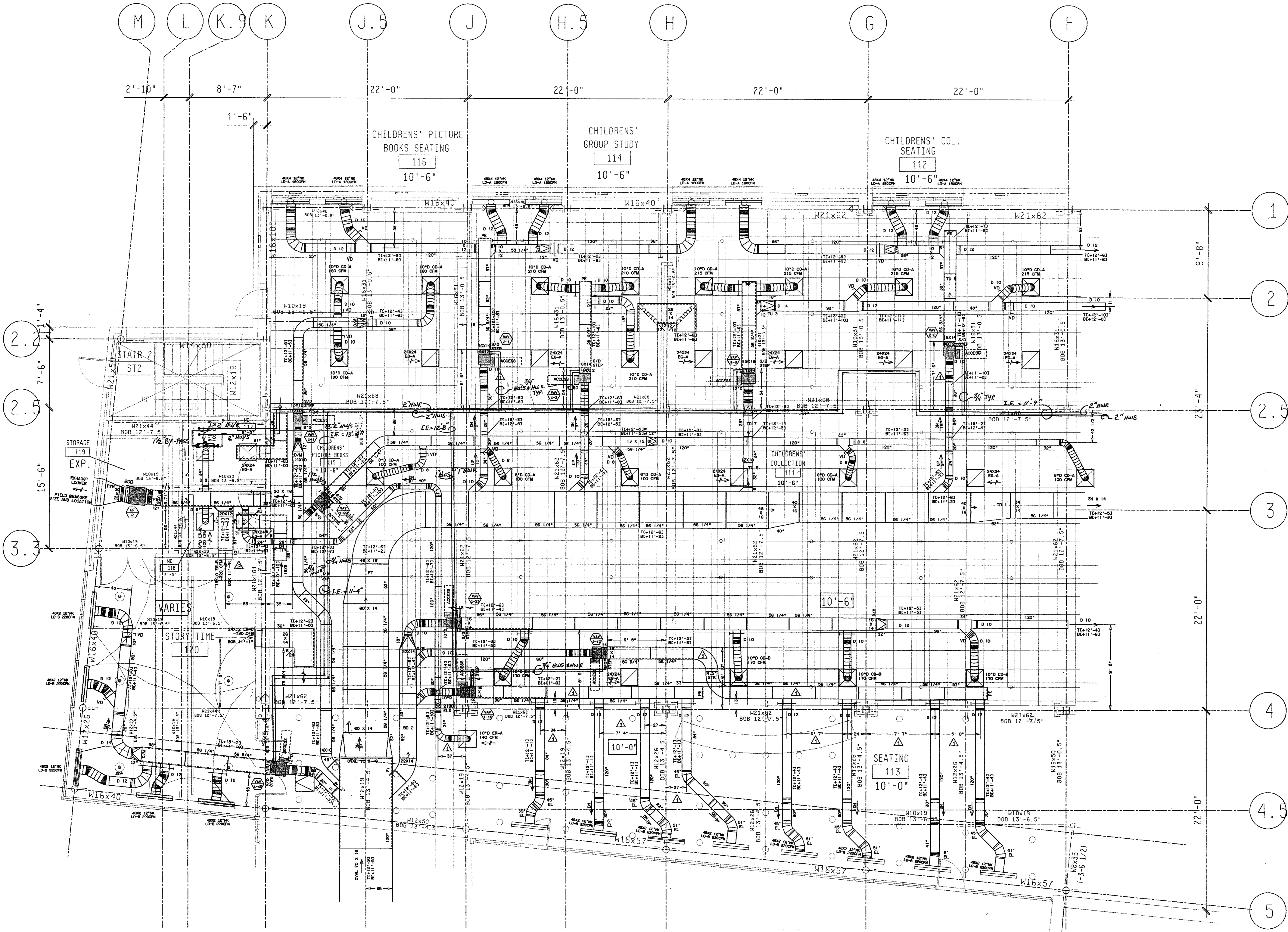
ADDENDUM NO. 1

LIBRARY
FIRST FLOOR
PLAN

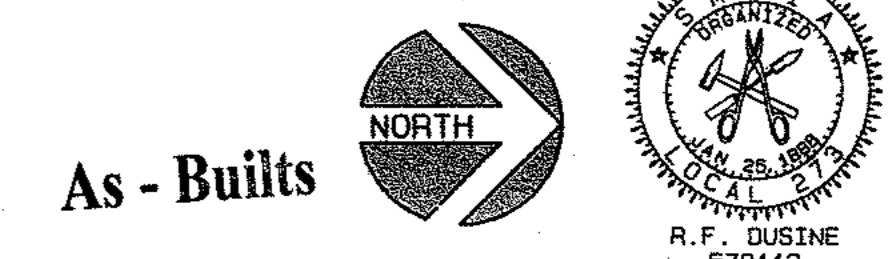
FIRST FLOOR PLAN
1/8"=1'-0"

scale: 1/8" = 1'-0" date: 2003.04.18
drawn by: project number: 001.0370.00
sheet number: M2.10

M2.10



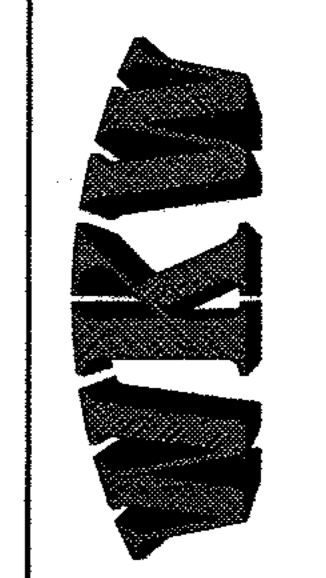
2ND FL SLAB = 15'-0"
 1ST FL SLAB = 0'-0"
 SLAB = 7.5"
 TOP OF STEEL = 14'-4.5"



COORDINATION	
COORDINATION	SIGNATURE DATE
MECHANICAL	
PLUMBING	
ELECTRICAL	
STRUCTURAL	

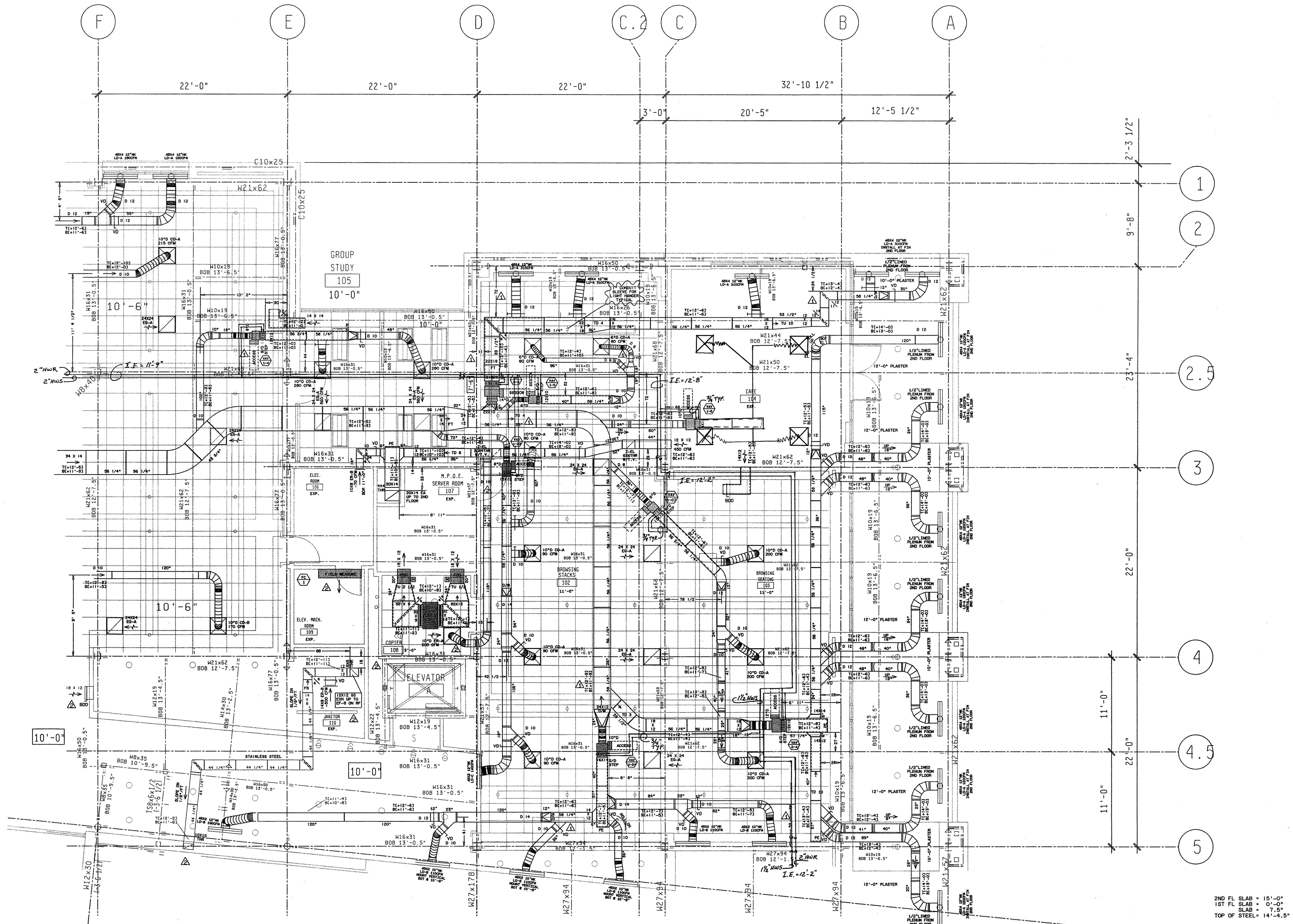
NO.	DATE	REVISION
1	01/19/04	PER CDD 18
2	02/17/04	PER CDD 18

MKW MECHANICAL CONT., INC.
 MECHANICAL CONTRACTORS
 500 WHITEBERRY AVENUE, MORGAN HILL, CALIFORNIA, 95037
 (408) 778-8978 LIC. NO. 768211

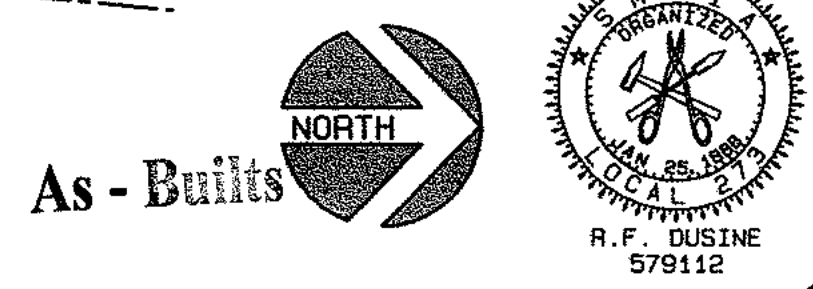


DRAWING TITLE: DUCTWORK FIRST FLOOR PART PLAN
 JOB TITLE: CUPERTINO CIVIC CENTER
 JOB ADDRESS: 10400 TORRE AVE., CUPERTINO, CA. 95014

DATE	11/05/03
SCALE	1/4" = 1'-0"
DRAWN BY	MD1
REF DWG.	M2.10
JOB NO.	2318
DRAWING NO.	M2.10A
REVISION NO.	2

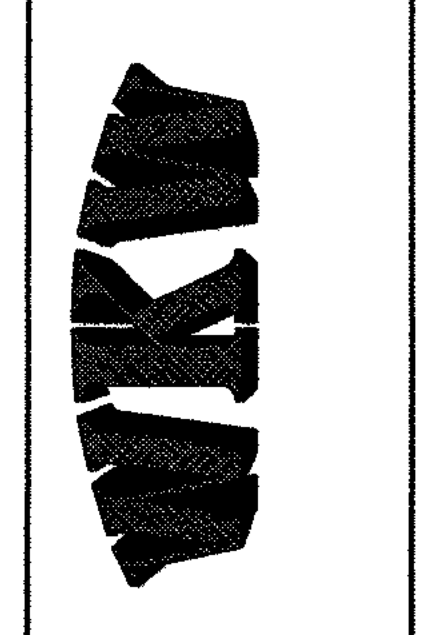


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 1ST FL SLAB = 0'-0"
 SLAB = 7.5"
 TOP OF STEEL = 14'-4.5"



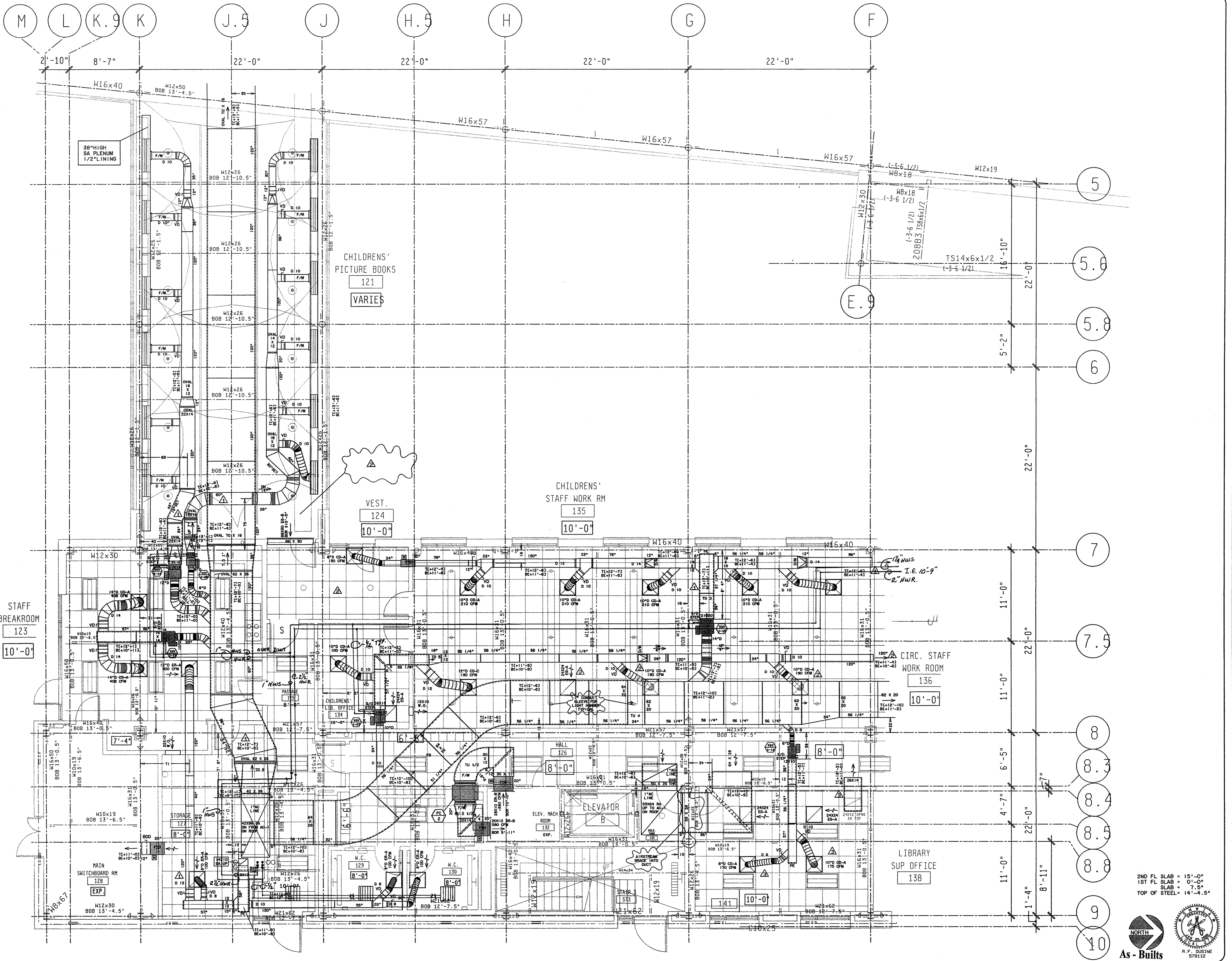
COORDINATION	
GENERAL CONTRACTOR	DATE
MVAE PIPING/PLUMBING/ELECTRICAL/DRY WALL	
REVISION	PER COORDINATION
NO.	DATE
1	01/22/04
2	02/17/04

MKW MECHANICAL CONTRACTORS, INC.
 MECHANICAL CONTRACTORS
 1000 BAYVIEW, MORGAN HILL, CALIFORNIA, 95031
 (408) 778-5778



DUCTWORK FIRST FLOOR PART PLAN
 CUPERTINO CIVIC CENTER
 10400 TORRE AVE.
 CUPERTINO, CA. 95014

DRAWING TITLE	11/05/03
JOB TITLE	
JOB ADDRESS	
SCALE	1/4" = 1'-0"
DRAWN BY	M01
REF DWG.	M2.10
JOB NO.	2318
DRAWING NO.	M2.10B
REVISION NO.	2



COORDINATION	
GENERAL CONTRACTOR	DATE
Mechanical/Control	
PLUMBING	
ELECTRICAL	
DRY WALL	

REVISION	
NO.	DATE
1	01/22/08
2	02/17/08
3	02/18/08

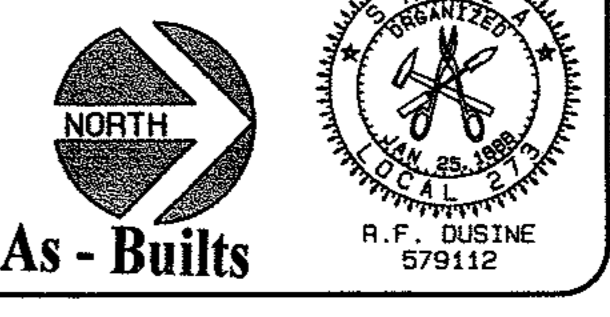
WKW MECHANICAL CONT. INC.
 MECHANICAL CONTRACTORS
 950 MONTEREY HIGHWAY, MORGAN HILL, CALIFORNIA, 95037
 LIC. NO. 488811
 (408) 779-9779

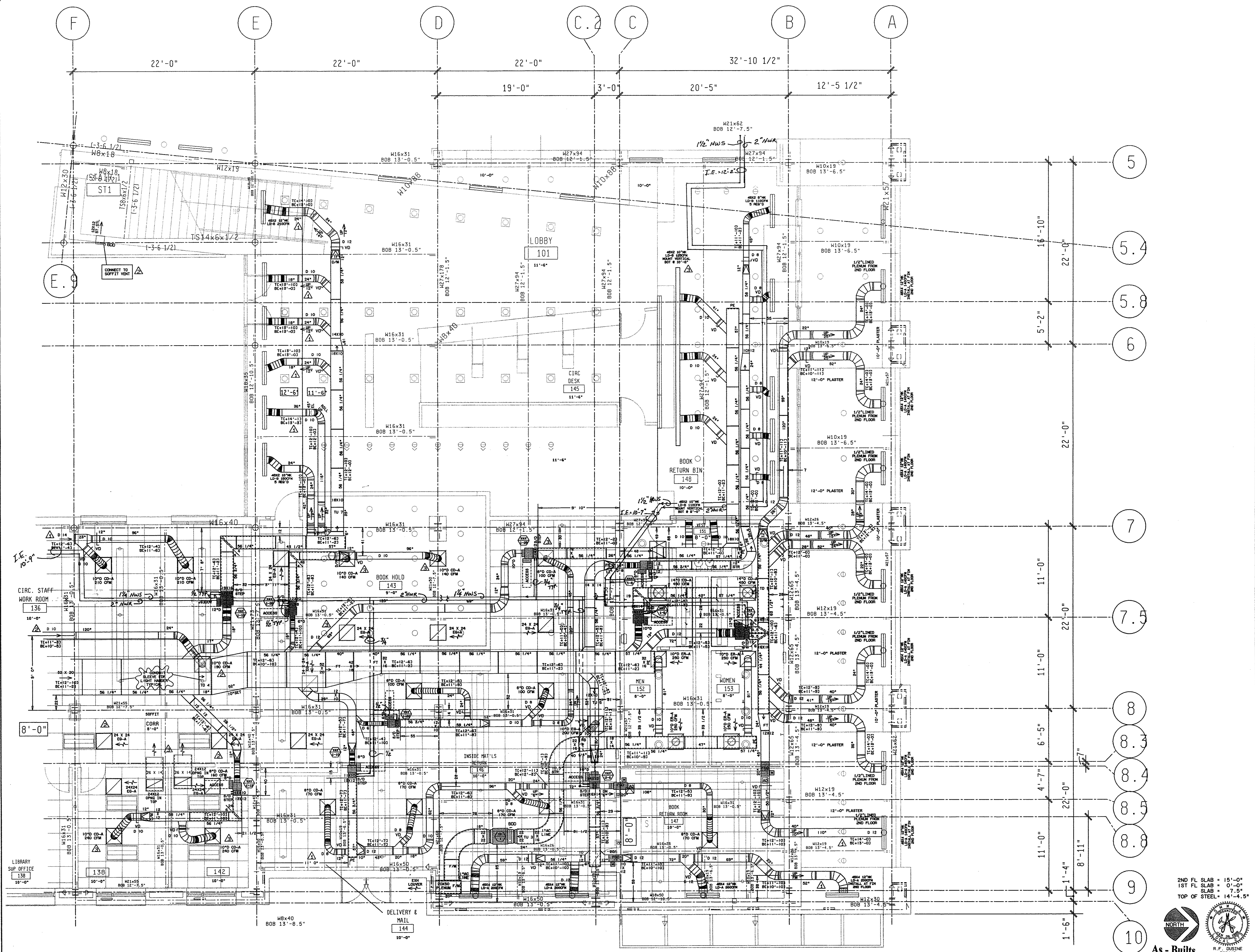


DUCTWORK F1RST FLOOR PART PLAN
 CUPERTINO CIVIC CENTER
 10400 TORRE AVE
 CUPERTINO, CA. 95014

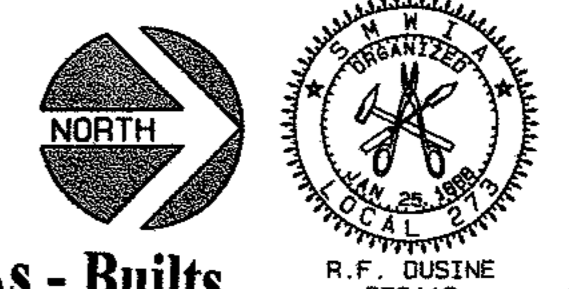
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DATE	
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DRAWN BY	MD1
REF DWG.	M2.10
JOB NO.	2318
DRAWING NO.	M2.10C
REVISION NO.	3

2ND FL SLAB = 15'-0"
 1ST FL SLAB = 0'-0"
 SLAB = 7.5"
 TOP OF STEEL = 14'-4.5"



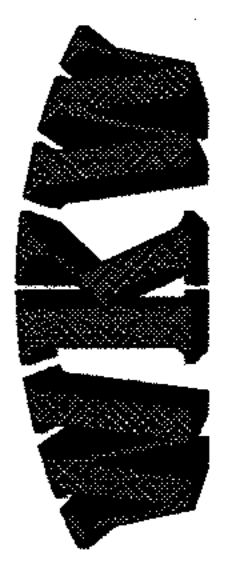


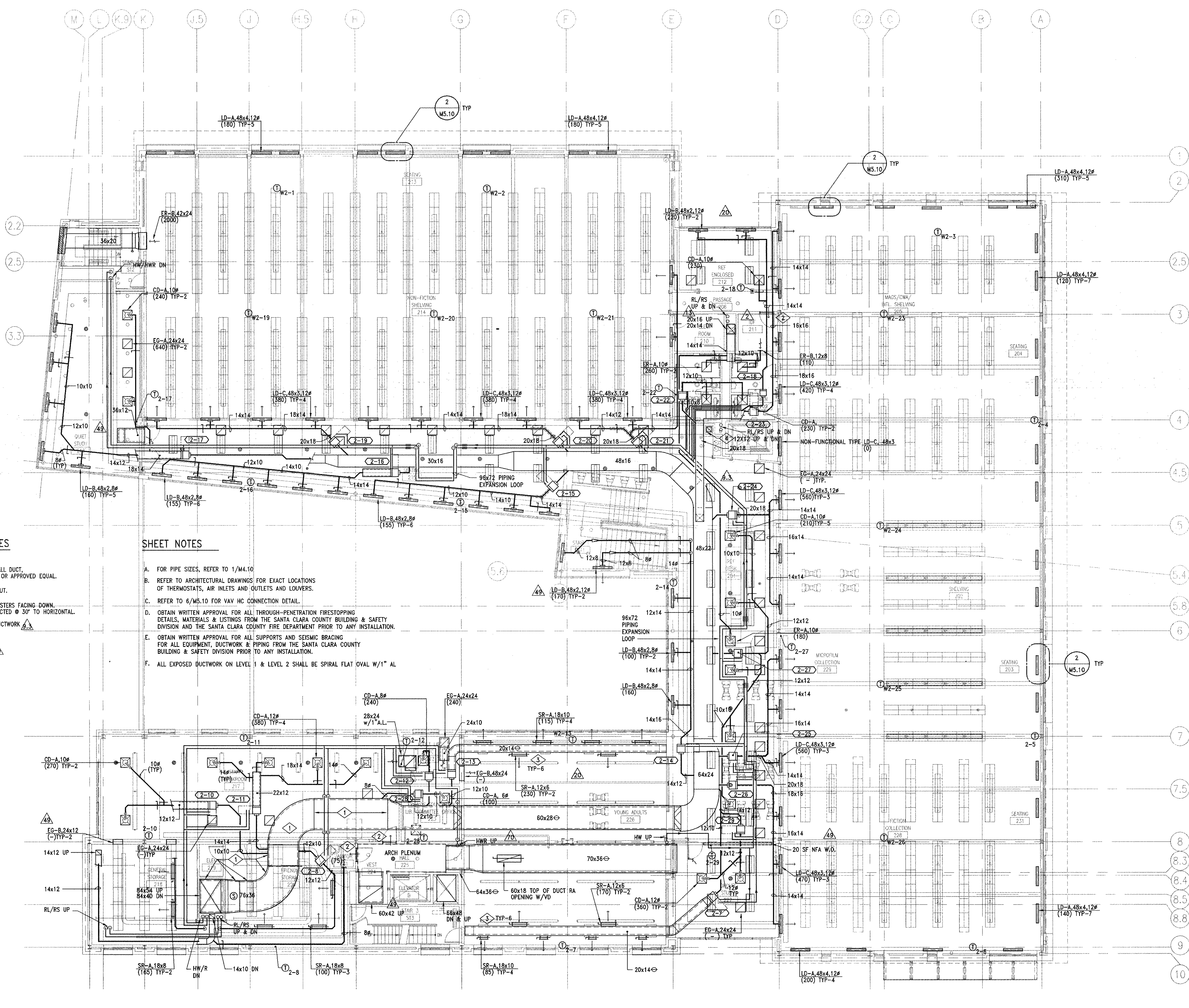
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 1ST FL SLAB = 0'-0"
 SLAB = 7'-5"
 TOP OF STEEL = 14'-4.5"



DRAWING TITLE		COORDINATION	
DUCTWORK FIRST FLOOR PART PLAN		COORDINATION	SIGNATURE DATE
JOB TITLE		GENERAL CONTR.	
JOB ADDRESS		MECH. DUCTWORK/CONTROL	
DATE		PLUMBING/MECH.	
SCALE		FIRE PROTECTION/ELECTRICAL	
DRAWN BY		DRY WALL	
REF DWG.			
JOB NO.			
DRAWING NO.			
REVISION NO.			
3			

NO.	DATE	REVISION
1	01/22/03	PER COORDINATION
2	02/17/03	PER CCD 18
3	02/19/03	PER CCD 10.1

WKW MECHANICAL CONT. INC. MECHANICAL CONTRACTORS 950 MONTEREY HIGHWAY, MORGAN HILL, CALIFORNIA, 95037 (408) 779-9779	
	
DRAWING TITLE: DUCTWORK FIRST FLOOR PART PLAN JOB TITLE: CUPERTINO CIVIC CENTER JOB ADDRESS: 10400 TORRE AVE., CUPERTINO, CA. 95014	



NUMBERED NOTES

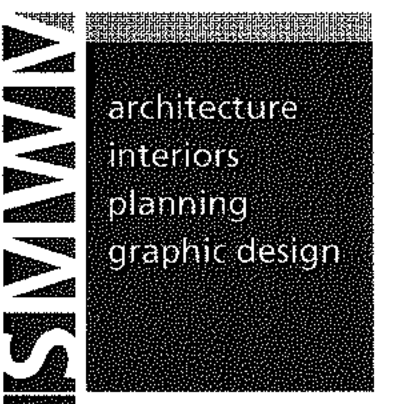
- 1 PROVIDE DOUBLE WALL DUCT, UNITED MCGILL K27 OR APPROVED EQUAL.
- 2 3/4" DOOR UNDERCUT.
- 3 MOUNT SUPPLY REGISTERS FACING DOWN. REGISTER FACE DIRECTED @ 30° TO HORIZONTAL.
- 4 STAINLESS STEEL DUCTWORK.
- 5 12" RA ELBOW UP.

SHEET NOTES

- A. FOR PIPE SIZES, REFER TO 1/M4.10.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF THERMOSTATS, AIR INLETS AND OUTLETS AND LOUVERS.
- C. REFER TO 6/M5.10 FOR VAV HC CONNECTION DETAIL.
- D. OBTAIN WRITTEN APPROVAL FOR ALL THROUGH-PENETRATION FIRESTOPPING DETAILS, MATERIALS & LISTINGS FROM THE SANTA CLARA COUNTY BUILDING & SAFETY DIVISION AND THE SANTA CLARA COUNTY FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
- E. OBTAIN WRITTEN APPROVAL FOR ALL SUPPORTS AND SEISMIC BRACING FOR ALL EQUIPMENT, DUCTWORK & PIPING FROM THE SANTA CLARA COUNTY BUILDING & SAFETY DIVISION PRIOR TO ANY INSTALLATION.
- F. ALL EXPOSED DUCTWORK ON LEVEL 1 & LEVEL 2 SHALL BE SPIRAL FLAT OVAL W/1" AL.

NOTE: SHOWN AND/OR CONSULTED ENGINEERS OWN ALL COPYRIGHTS, OTHER INTELLECTUAL PROPERTY RIGHTS, AND OTHER INTERESTS IN THIS WORK PRODUCT AND IT IS PROTECTED BY UNITED STATES COPYRIGHT LAW AND INTERNATIONAL TREATY PROVISIONS. SHOWN'S WORK PRODUCT MAY NOT BE COPIED, REPRODUCED, OR TRANSFERRED TO ANY THIRD PARTY WITHOUT SHOWN'S WRITTEN CONSENT. (REFER TO THE PROJECT MANUAL FOR OTHER APPLICABLE USE RESTRICTIONS).

SECOND FLOOR PLAN
1/8"=1'-0" 1



architecture
interiors
planning
graphic design

City of
Cupertino
10000 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
580 Merced Drive, Suite 1
Redlands, CA 92875
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forel/Elsesser
Engineers, Inc.
140 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415 398 3823 T
415 433 5311 F

Architectural
Lighting Design
370 Branigan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

revisions	date	description
△	2003.05.30	ADDENDUM NO. 2
△	2003.10.21	CCD 011
△	2003.12.19	CCD 7.3
△	2003.12.19	CCD 18
△	2004.03.30	CCD 47
△	2004.06.02	CCD 88

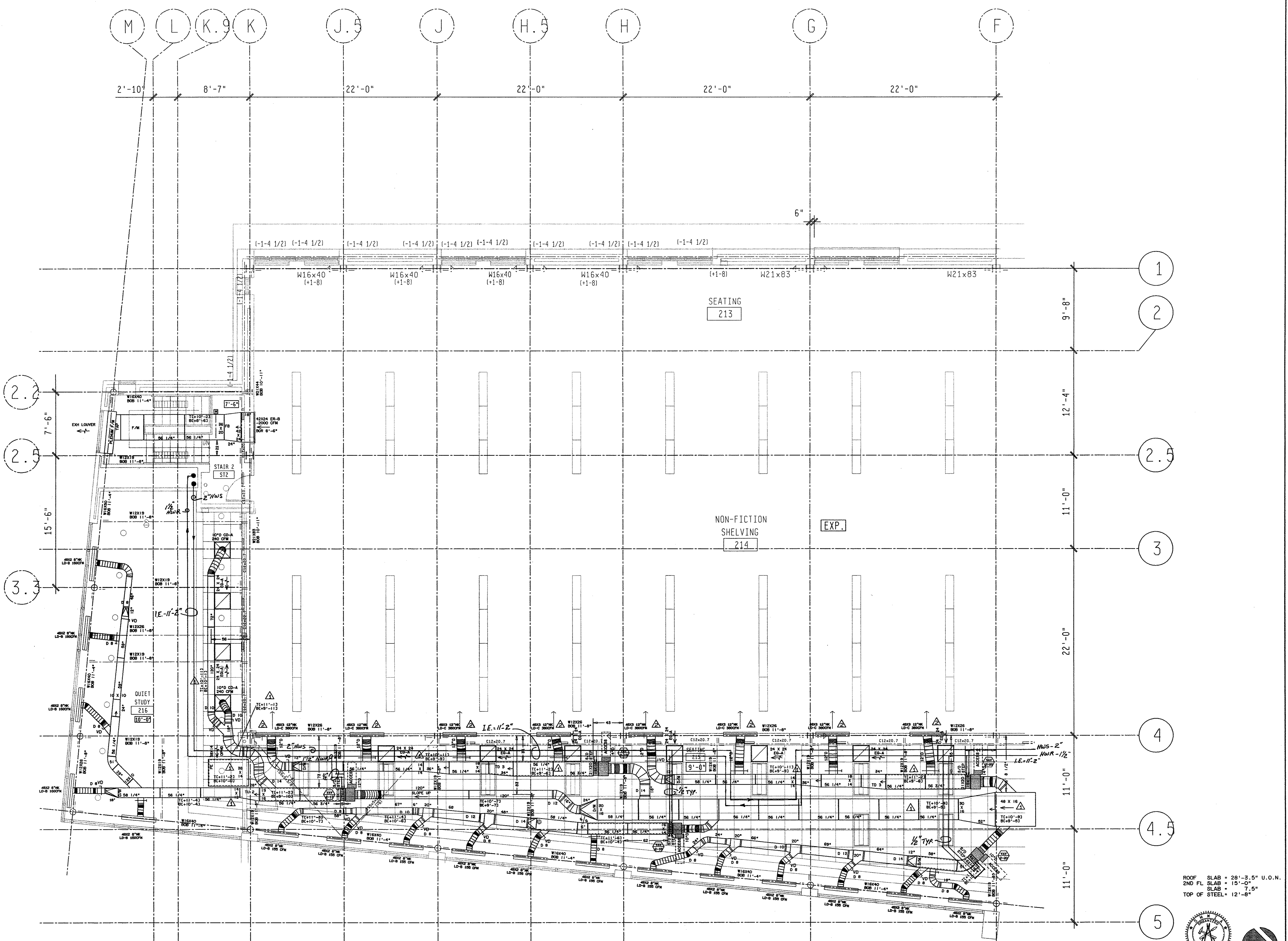
11-29-04 Updated
Contract Documents

stamp	description
	BID SET

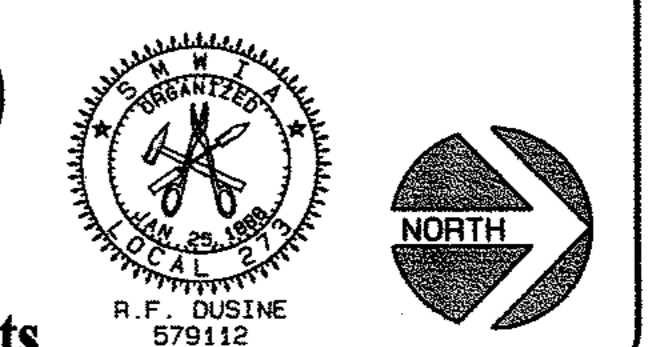
LIBRARY
SECOND FLOOR
PLAN

scale: 1/8" = 1'-0" date: 2003.04.18
drawn by: project number: 01.037700.00
sheet number:

M2.11



ROOF SLAB = 28'-3.5" U.O.N.
 2ND FL SLAB = 15'-0"
 SLAB = 7.5"
 TOP OF STEEL = 12'-8"



As - Buils

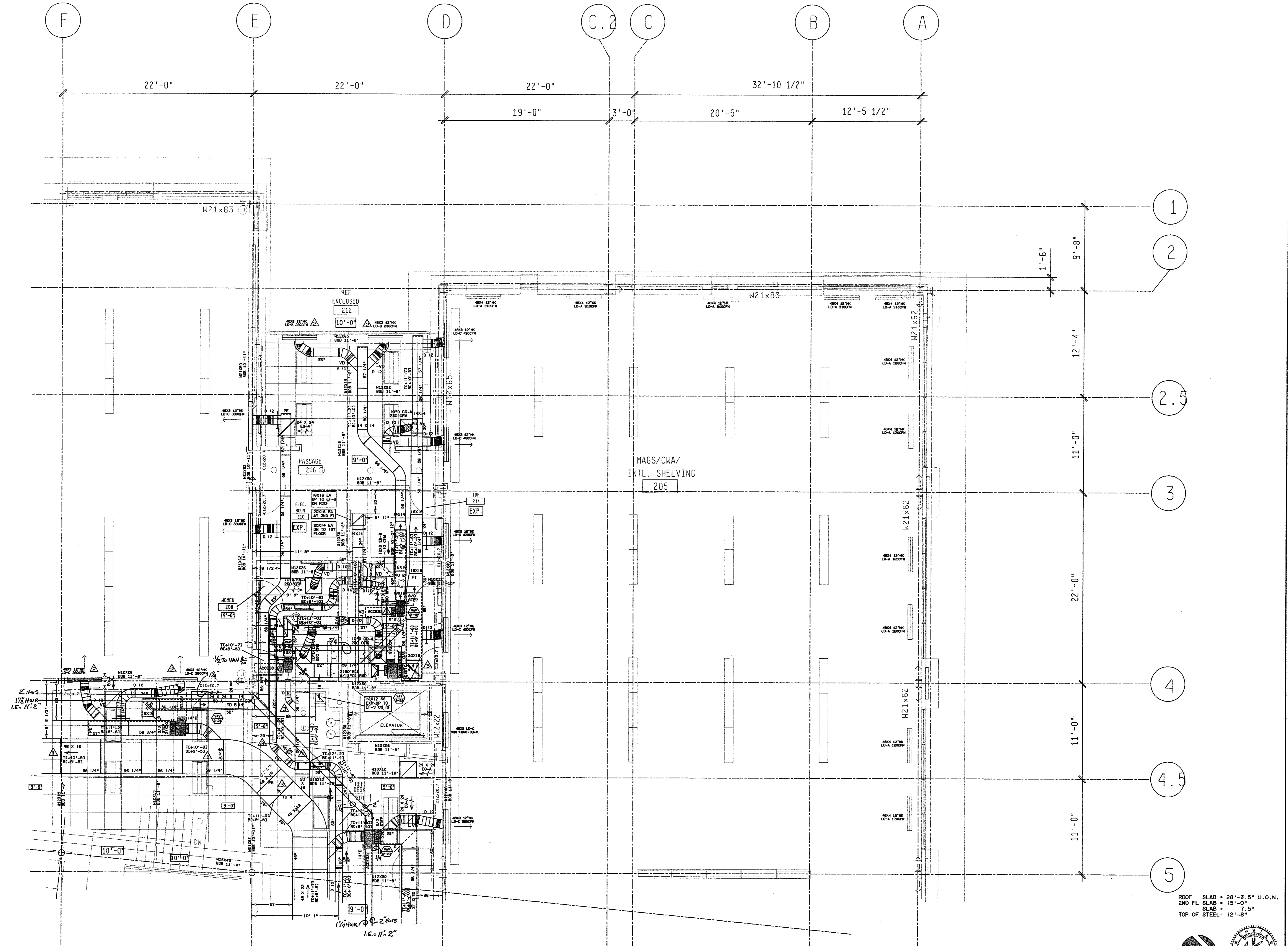
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NO.	DATE
1	01/22/04
2	02/17/04

REVISION
 01/22/04 PER COORDINATION
 02/17/04 PER CCD 18

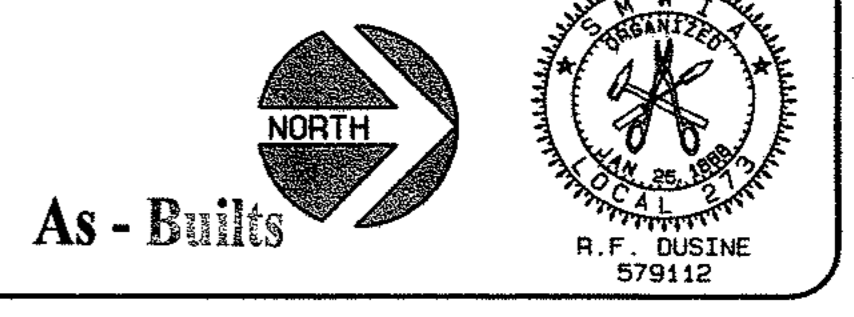
WKW MECHANICAL CONT. INC.
 MECHANICAL CONTRACTORS
 14481 75th Street, Morgan Hill, California, 95037
 (408) 758-8775

DUCTWORK SECOND FLOOR PART PLAN
 CUPERTINO CIVIC CENTER
 10400 TORRE AVE.
 CUPERTINO, CA. 95014

DRAWING TITLE	
DATE	11/10/03
SCALE	1/4" = 1'-0"
DRAWN BY	MD1
REF DWG.	M2.11
JOB NO.	2318
DRAWING NO.	M2.11A
REVISION NO.	2

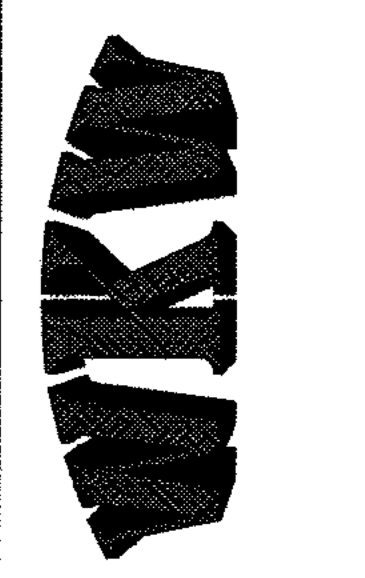


ROOF SLAB = 28'-3.5" U.O.N.
 2ND FL SLAB = 15'-0"
 SLAB = 7'-5"
 TOP OF STEEL = 12'-8"



DRAWING TITLE DUCTWORK SECOND FLOOR PART PLAN		COORDINATION	
DATE 11/10/03	SCALE 1/4" = 1'-0"	NO. DATE	REVISION
DRAWN BY MD1	REF DWG. M2.11	1 01/22/03	PER COORDINATION
JOB NO. 2318	JOB TITLE CUPERTINO CIVIC CENTER	2 02/17/03	PER CCD 18
DRAWING NO. M2.11B	JOB ADDRESS 10400 TORRE AVE. CUPERTINO, CA. 95014	3 02/17/03	PER CCD 17.3
REVISION NO. 3		4	PER CCD 17.3
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		100	PER CCD 17.3

HWK MECHANICAL CONT. INC.
 MECHANICAL CONTRACTORS
 850 MONTEREY HIGHWAY, MORGAN HILL, CALIFORNIA, 95037
 (408) 779-8779



DRAWING TITLE
DUCTWORK SECOND FLOOR PART PLAN

JOB TITLE
CUPERTINO CIVIC CENTER

JOB ADDRESS
10400 TORRE AVE.
CUPERTINO, CA. 95014

DATE
11/10/03

SCALE
1/4" = 1'-0"

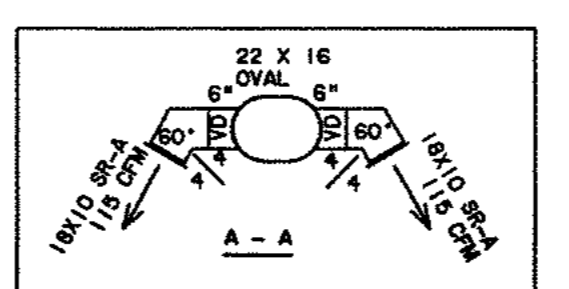
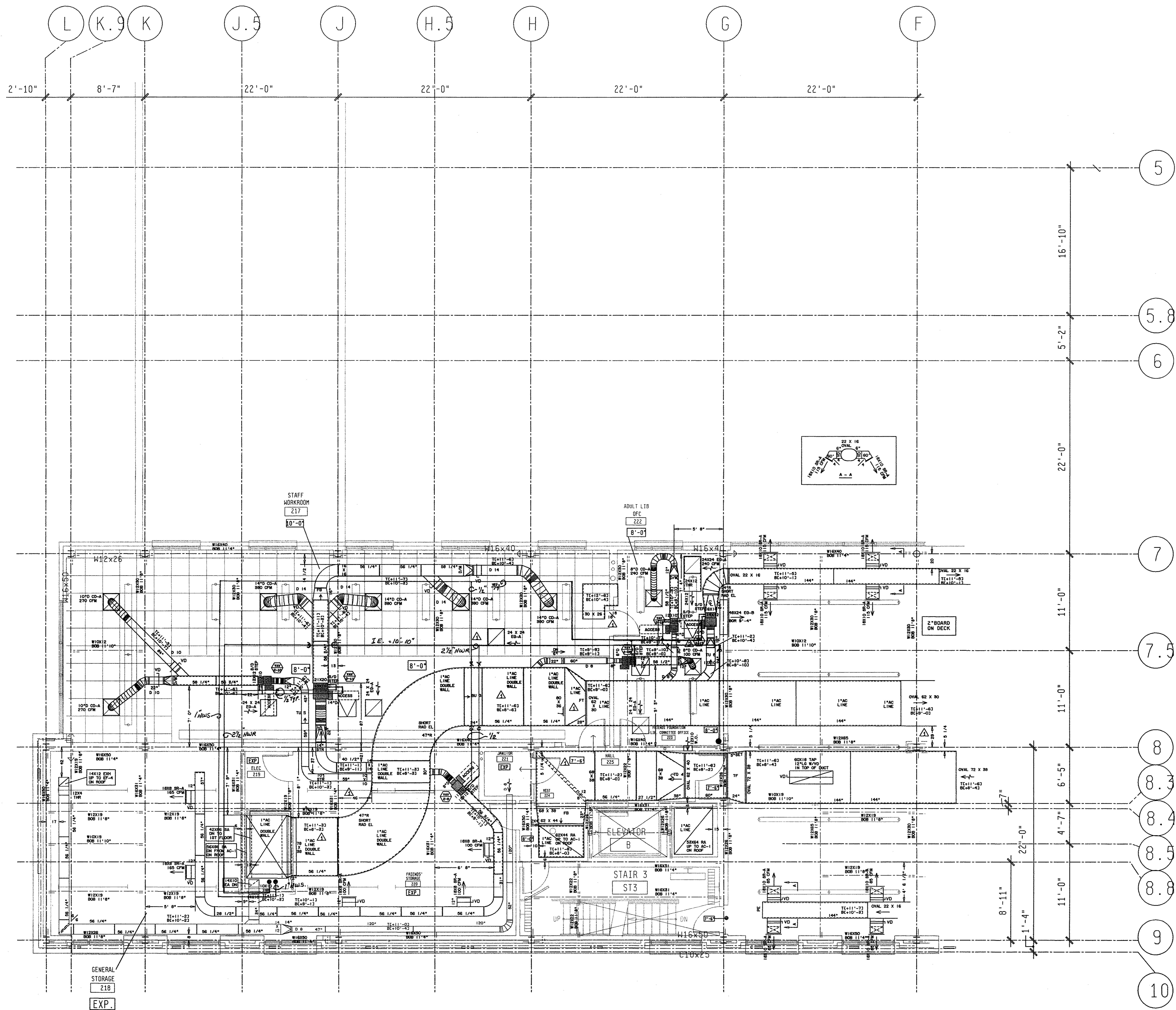
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MD1

REF DWG.
M2.11

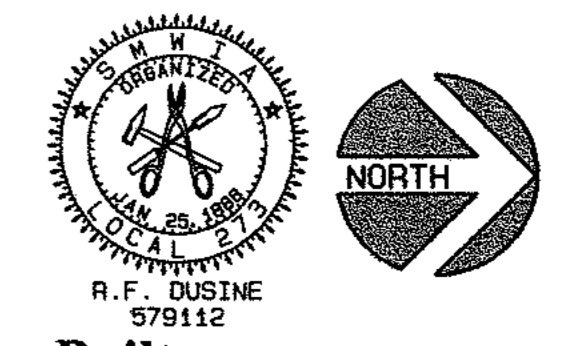
JOB NO.
2318

DRAWING NO.
M2.11B

REVISION NO.
3



ROOF SLAB = 26'-3.5" U.O.N.
 2ND FL SLAB = 15'-0"
 SLAB = 7.5"
 TOP OF STEEL = 12'-8"

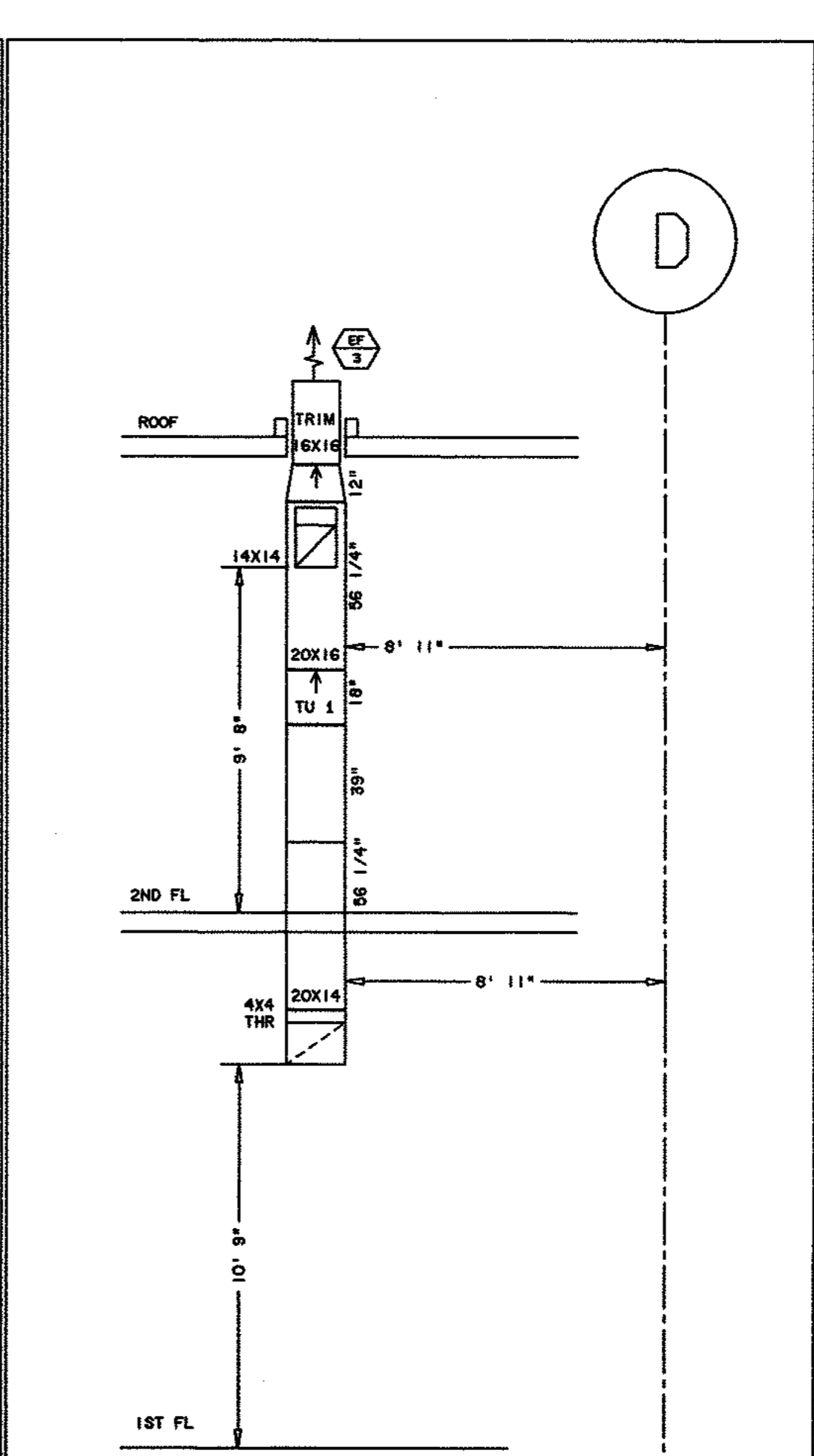
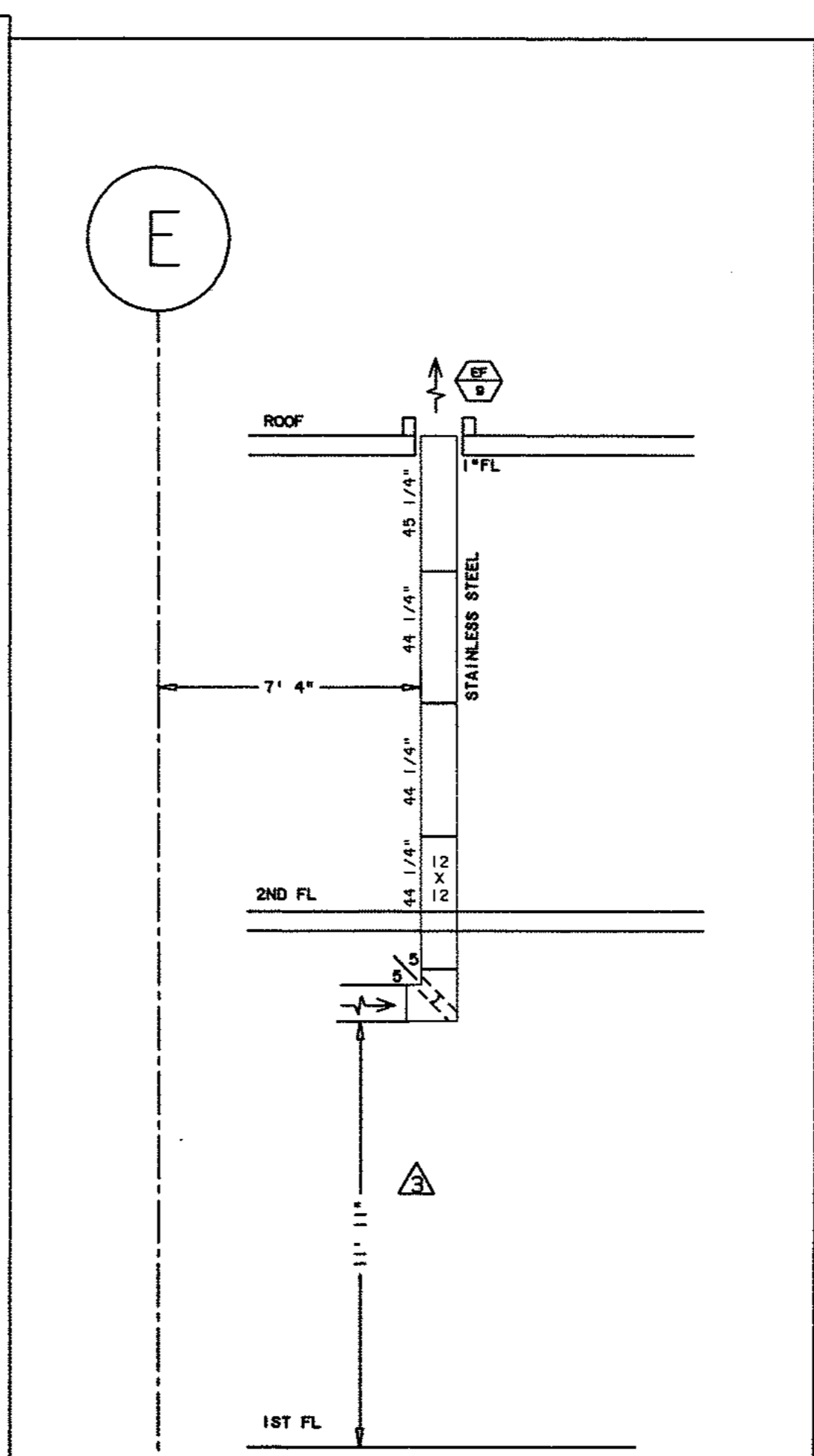
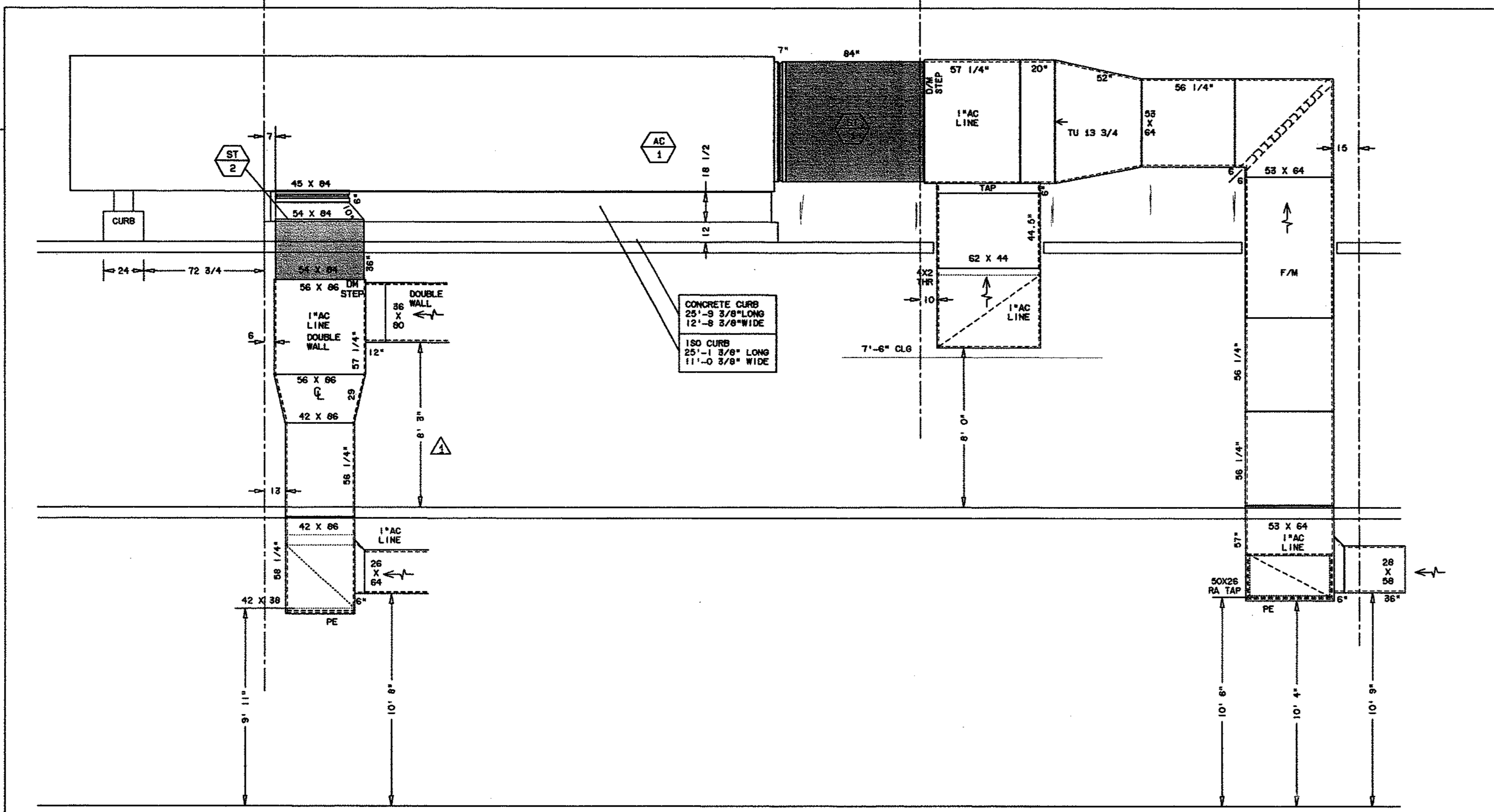
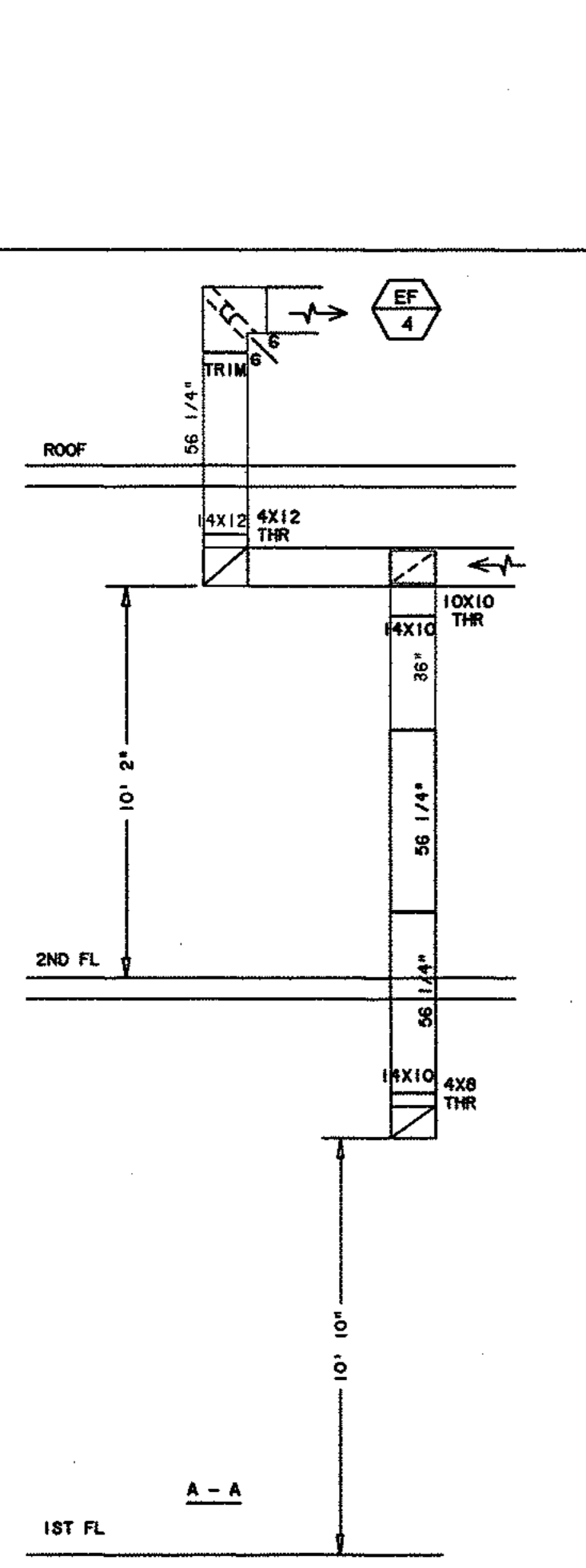
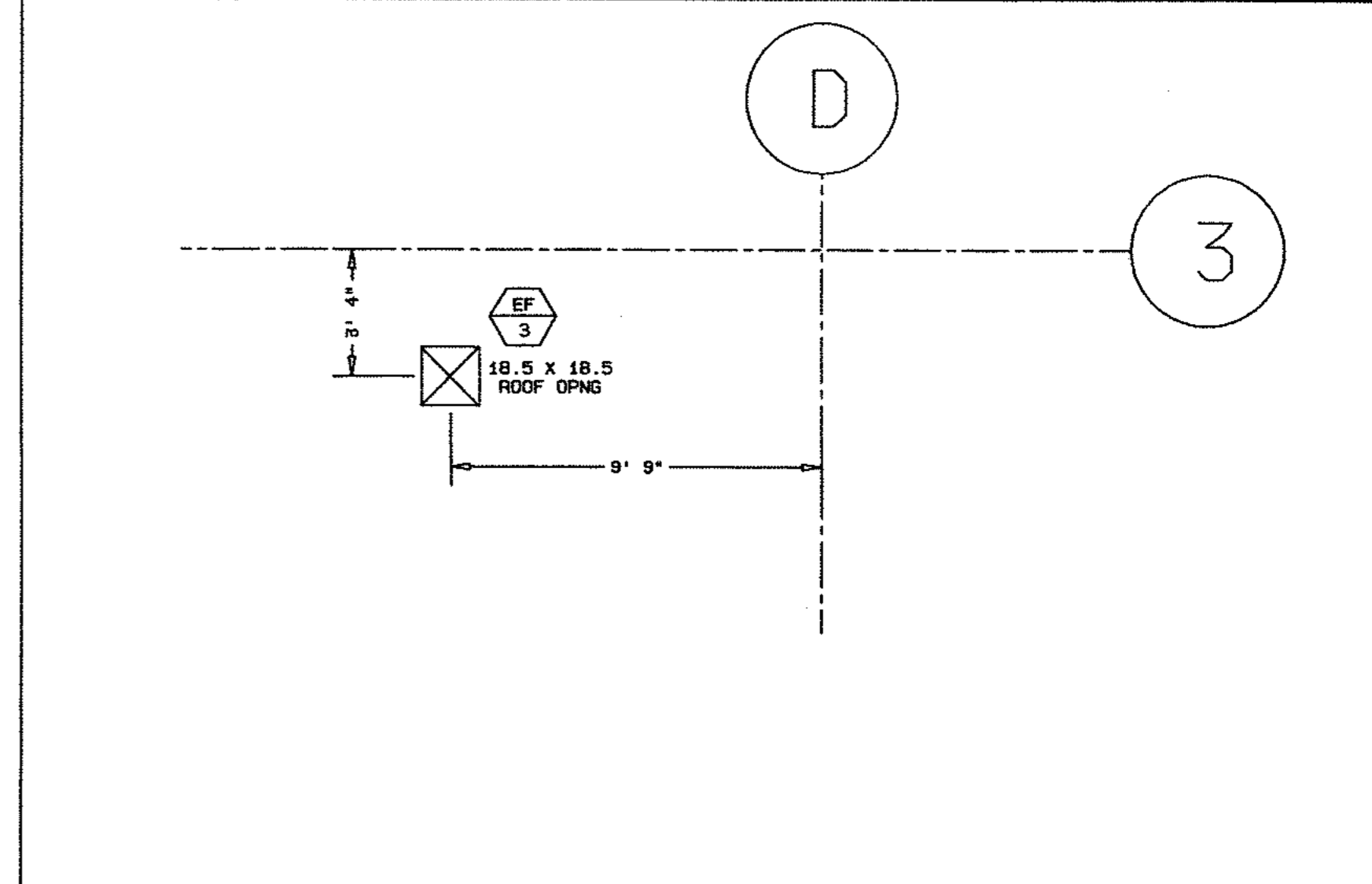
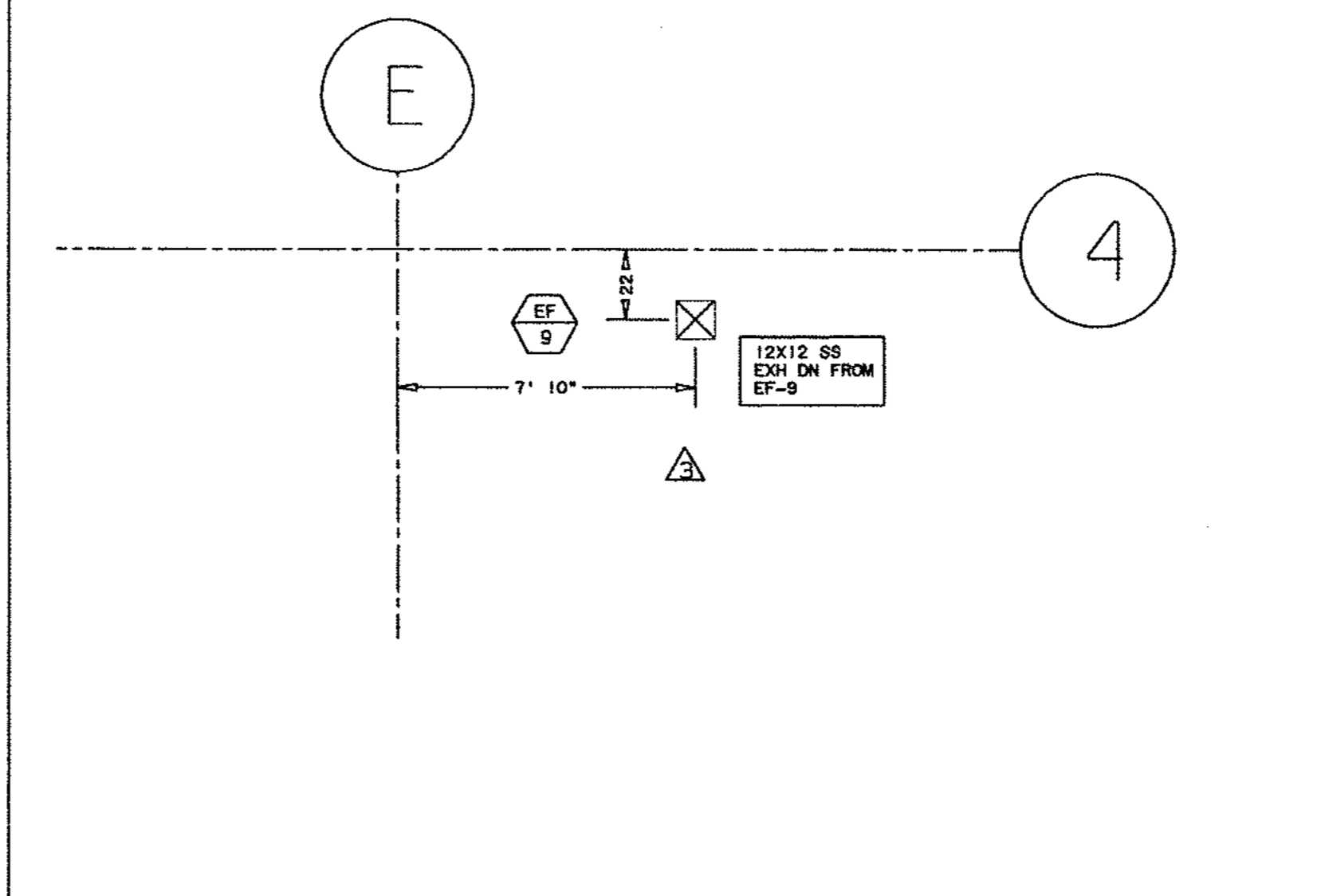
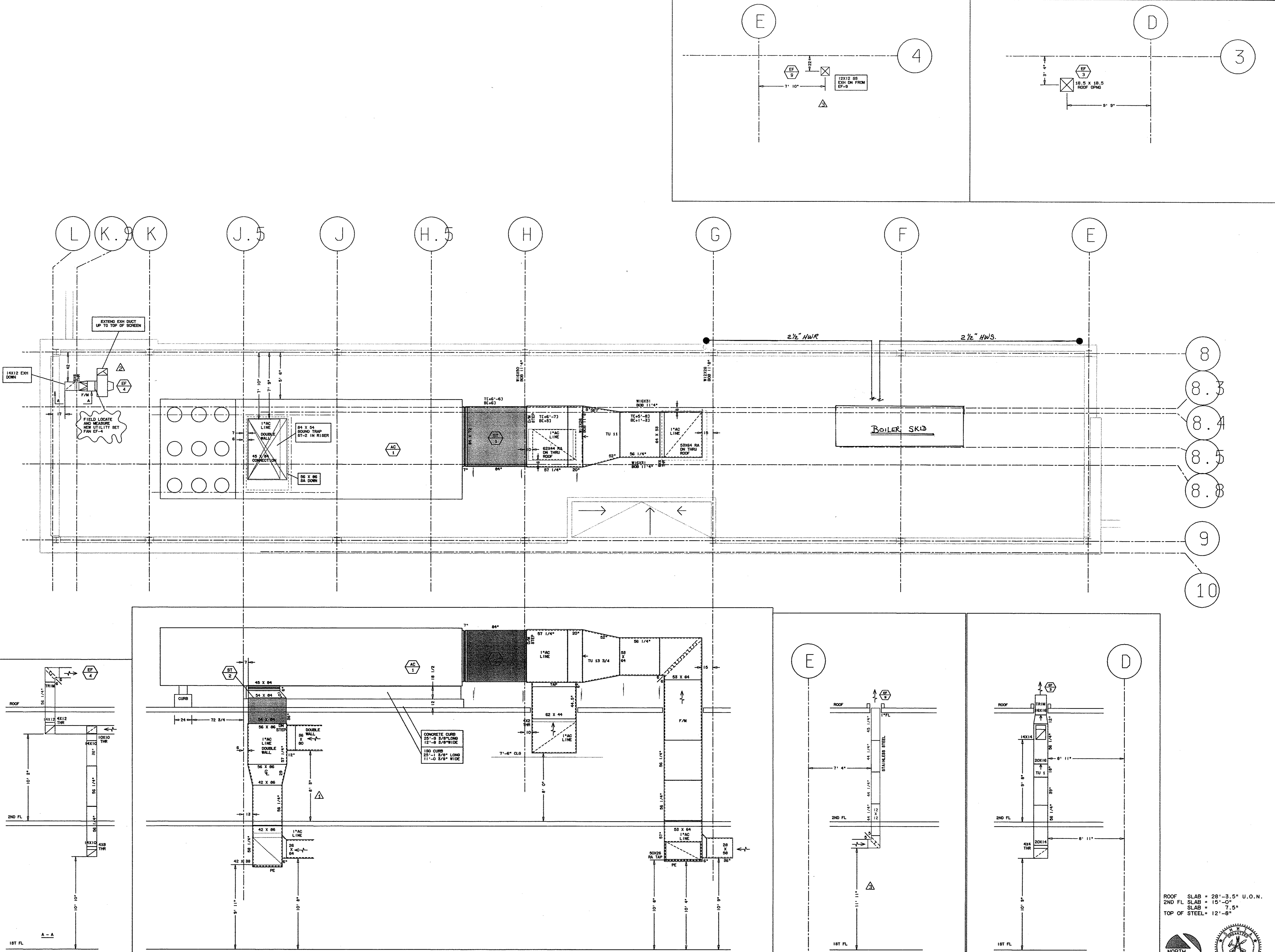


As - Builds

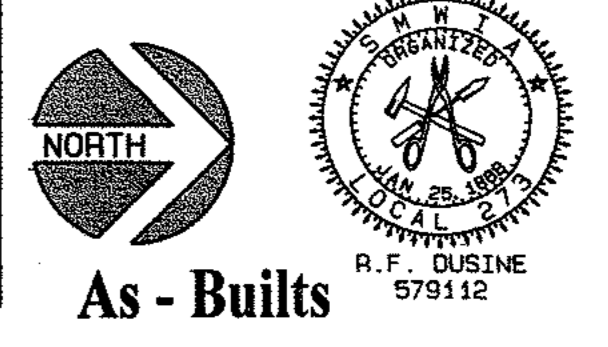
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COORDINATION	SIGNATURE DATE
GENERAL CONTRACTOR	
MECHANICAL CONTRACTOR	
PLUMBING	
ELECTRICAL	
STRUCTURAL	
REVISION	
NO.	DATE
1	01/22/04
2	02/17/04
DRAWING TITLE	
DUCTWORK SECOND FLOOR PART PLAN	
DRAWING NO.	
M2.11C	
REVISION NO.	
2	
DRAWING TITLE	
DUCTWORK SECOND FLOOR PART PLAN	
JOB TITLE	
CUPERTINO CIVIC CENTER	
JOB ADDRESS	
10400 TORRE AVE.	
CUPERTINO, CA. 95014	
DATE	
11/11/03	
SCALE	
1/4" = 1'-0"	
DRAWN BY	
MDI	
REF DWG.	
M2.11	
JOB NO.	
2318	
DRAWING NO.	
M2.11C	
REVISION NO.	
2	

WKW MECHANICAL CONT., INC.
 MECHANICAL CONTRACTORS
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 (408) 779-9779





ROOF SLAB = 28'-3.5" U.O.N.
 2ND FL SLAB = 15'-0"
 SLAB = 7.5"
 TOP OF STEEL = 12'-6"

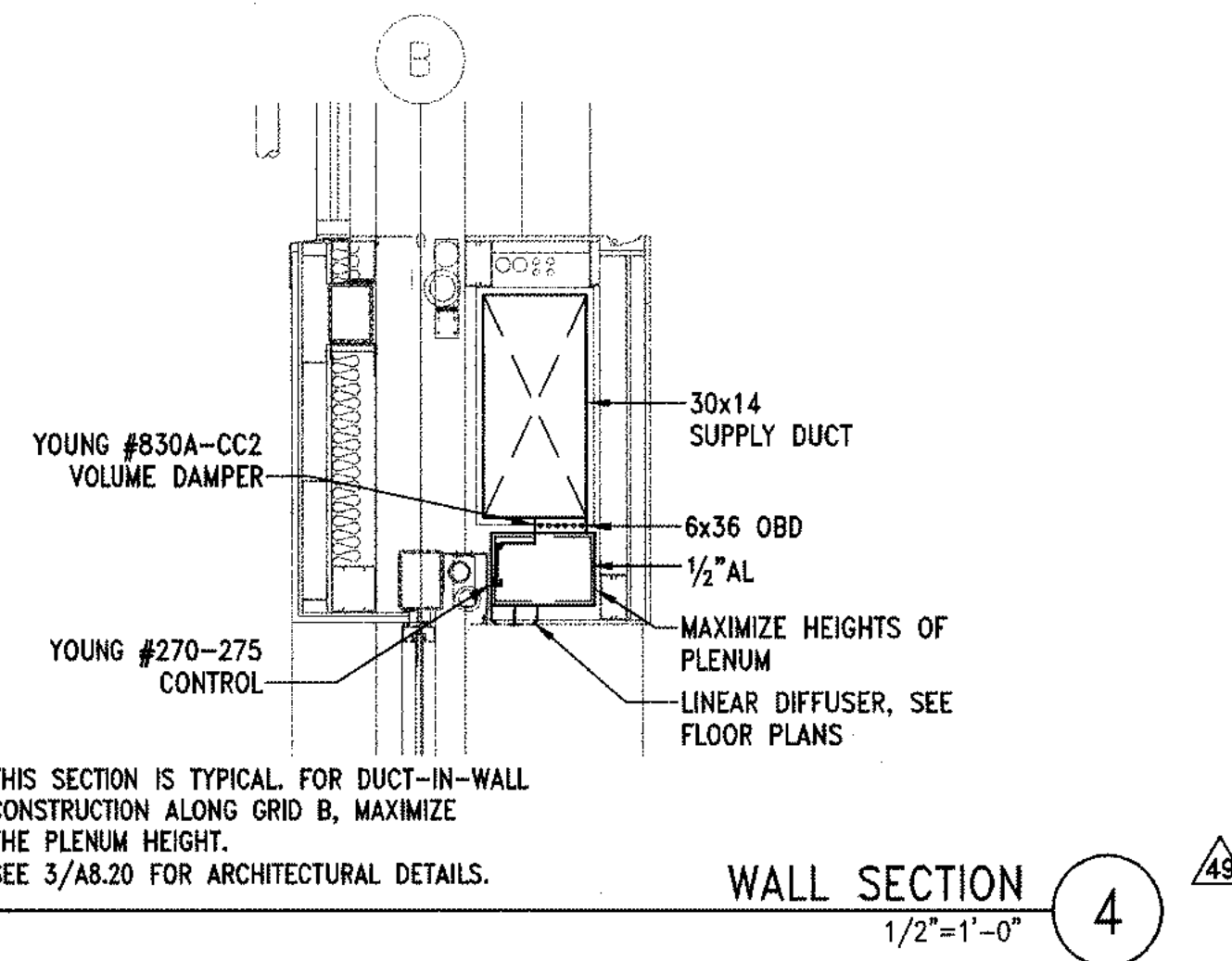


COORDINATION		NO.	DATE	REVISION	PER	COORDINATION	DATE
GENERAL CONTRACTOR	DATE	1	01/22/04	PER	CCD	18	
MECHANICAL CONTRACTOR	DATE	2	02/17/04	PER	CCD	17.3	
PLUMBING	DATE	3	02/17/04	PER	CCD	17.3	
FIRE PROTECTION/ELECTRICAL	DATE						
DRY WALL	DATE						

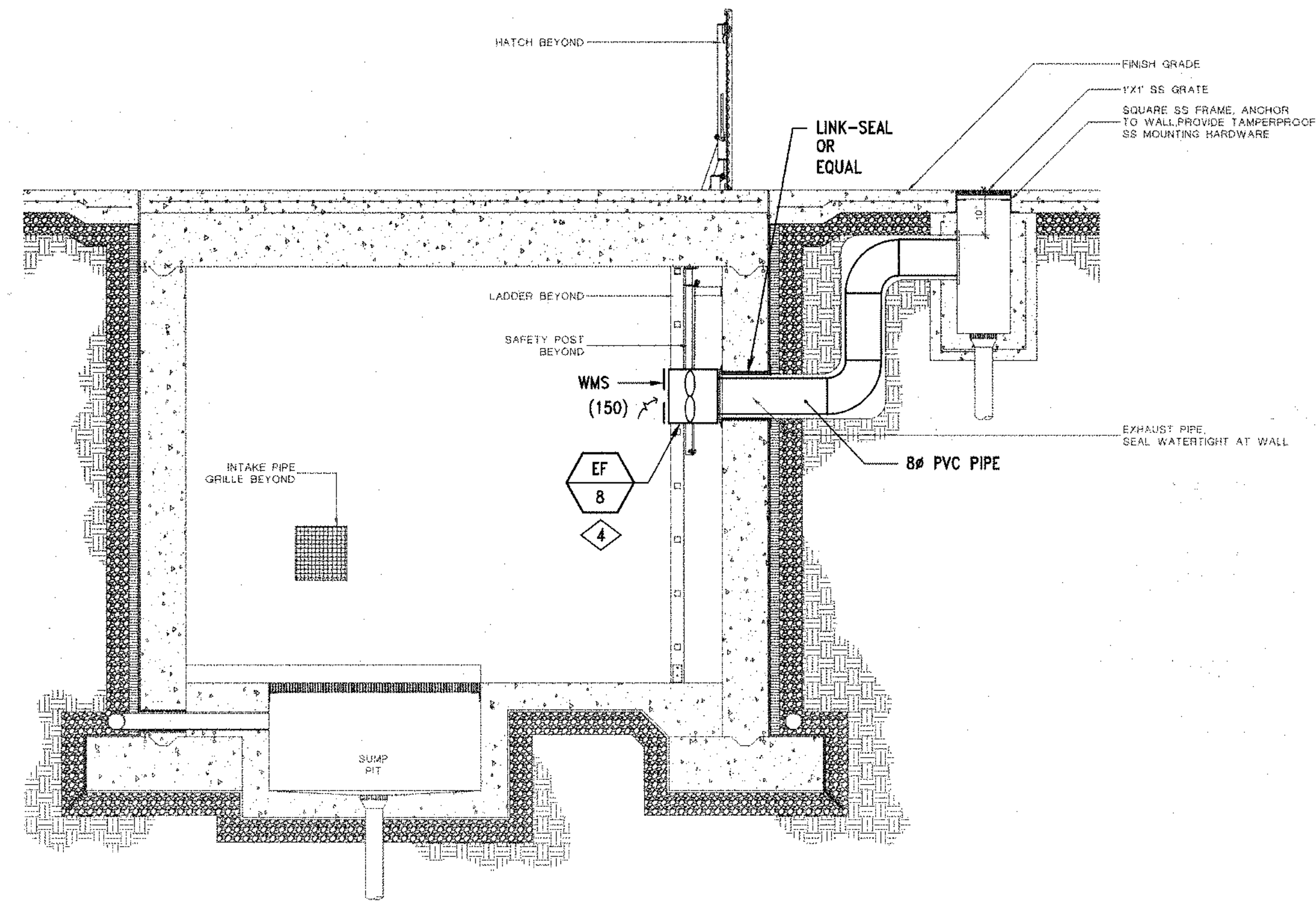
Wkw Mechanical Cont. Inc.
 MECHANICAL CONTRACTORS
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Ductwork Library Roof Plan
 CUPERTINO CIVIC CENTER
 10400 TORRE AVE.
 CUPERTINO, CA. 95014

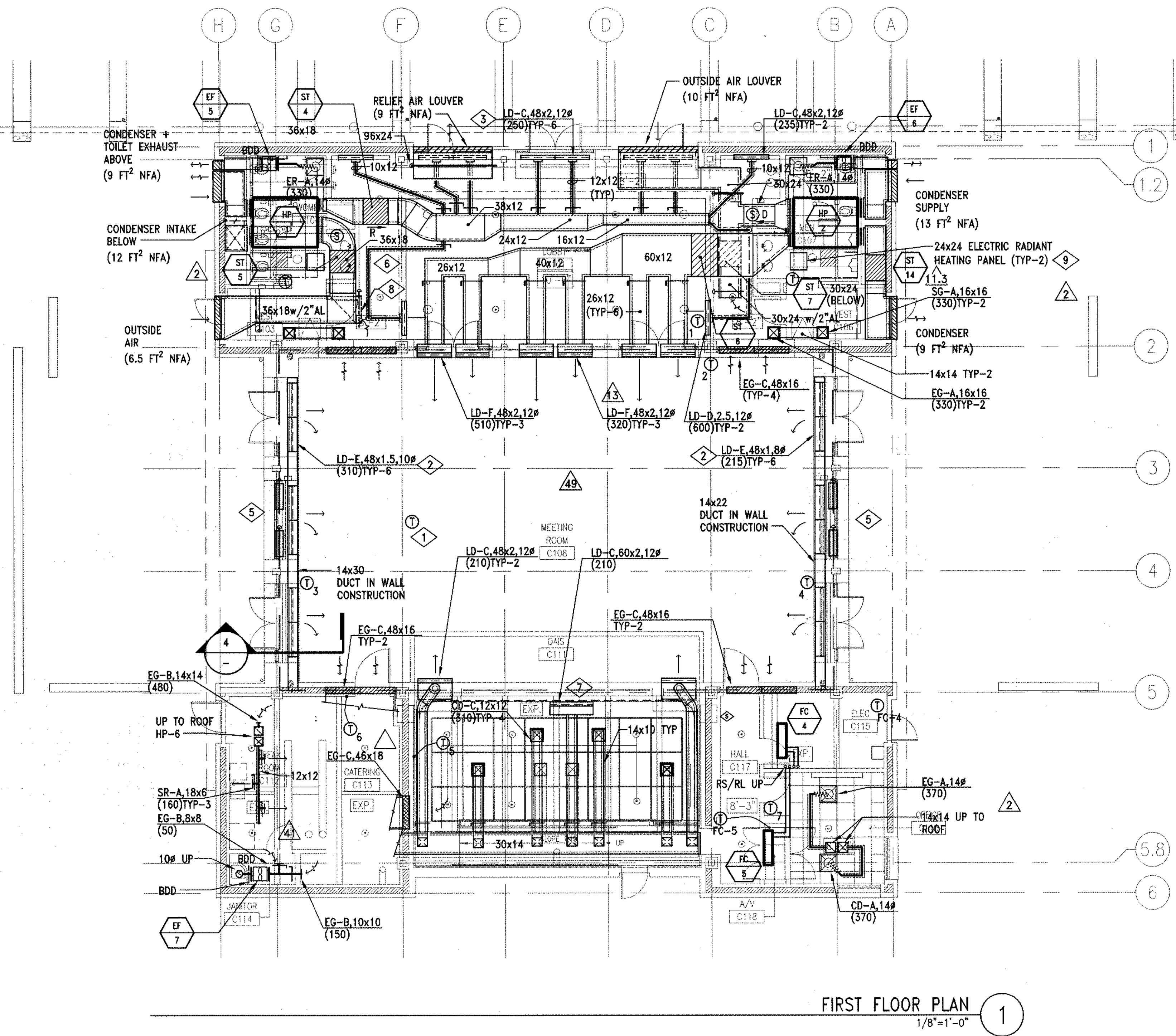
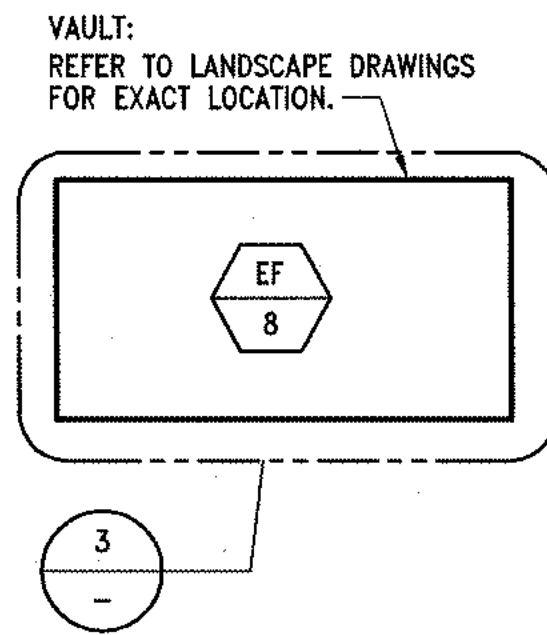
DRAWING TITLE: Ductwork Library Roof Plan
 JOB TITLE: CUPERTINO CIVIC CENTER
 JOB ADDRESS: 10400 TORRE AVE., CUPERTINO, CA. 95014
 DATE: 11/24/03
 SCALE: 1/4" = 1'-0"
 DRAWN BY: MD1
 REF DWG.: M2.11
 JOB NO.: 2318
 DRAWING NO.: M2.12
 REVISION NO.: 3



NOTE: THIS SECTION IS TYPICAL FOR DUCT-IN-WALL CONSTRUCTION ALONG GRID B, MAXIMIZE THE PLENUM HEIGHT. SEE 3/A8.20 FOR ARCHITECTURAL DETAILS.



FOUNTAIN PUMP VAULT 3
1/2"=1'-0"



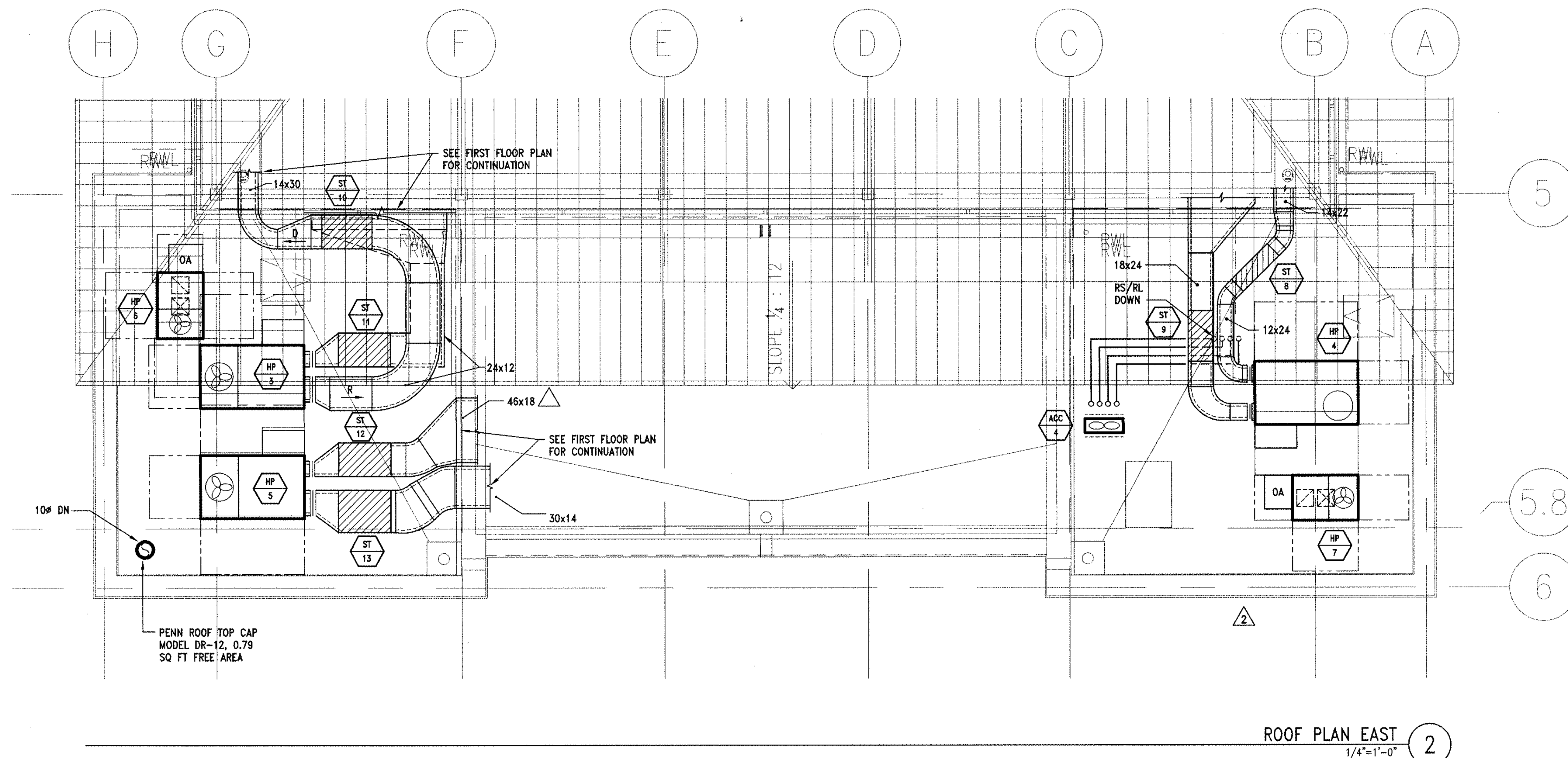
FIRST FLOOR PLAN 1
1/8"=1'-0"

SHEET NOTES

- A. BLANK OFF NON-ACTIVE SECTIONS OF LOUVER WITH 26 GAUGE SM.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF THERMOSTATS, CEILING HEATING PANELS, AIR INLETS AND OUTLETS AND LOUVERS.

NUMBERED NOTES

- 1 LOCATE THERMOSTAT @ 27'-0" AFF. REFER TO DETAIL 6/M5.20
- 2 SLOT CLOSEST TO WALL SHALL BE STANDARD WEIR. OTHER SLOT SHALL BE JET PAIN WEIR. EQUAL AIR FLOW THROUGH EACH SIDE. PROVIDE 8# CONNECTION AT EACH END OF EACH PLENUM.
- 3 3 DIFFUSERS SHALL HAVE LAMBERT DOUBLE NESTED CHANNEL WEIR GATES AIMED TO SUPPLY AIR TOWARDS THE CENTER OF THE LOBBY.
- 4 PROVIDE ON/OFF SWITCH AT VAULT HATCH ENTRY LOCATION.
- 5 PROVIDE WALL MOUNTED SWITCHES FOR OPERABLE WINDOWS SECTIONS MOTOR OVERRIDE
- 6 RETURN AIR ARCH. SLOT
- 7 FACE-DOWN LINEAR DIFFUSER.
- 8 36x18 RETURN AIR DUCT OPENING
- 9 BERKO OR EQUAL MODEL CP3751; 375W/120V WITH LINE VOLTAGE THERMOSTAT. PROVIDE CUSTOM COLOR & SEISMIC CLIPS. PROVIDE RECESS MOUNTING FRAME BBRF2424.



ROOF PLAN EAST 2
1/4"=1'-0"

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916.435.2400 T
916.435.2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
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160 Pine Street
San Francisco, CA 94111
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415.396.3833 T
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San Francisco, CA 94107
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415.485.4660 F

revision	description	date
1	2003.05.30	ADDENDUM NO. 2
2	2003.10.21	CCD 011
3	2003.12.15	RFI-0148
4	2004.01.15	CCD 8.3
5	2004.02.17	CCD 39
6	2004.03.30	CCD 47

11-29-04 Updated Contract Documents

stamp

issue

BID SET

sheet title

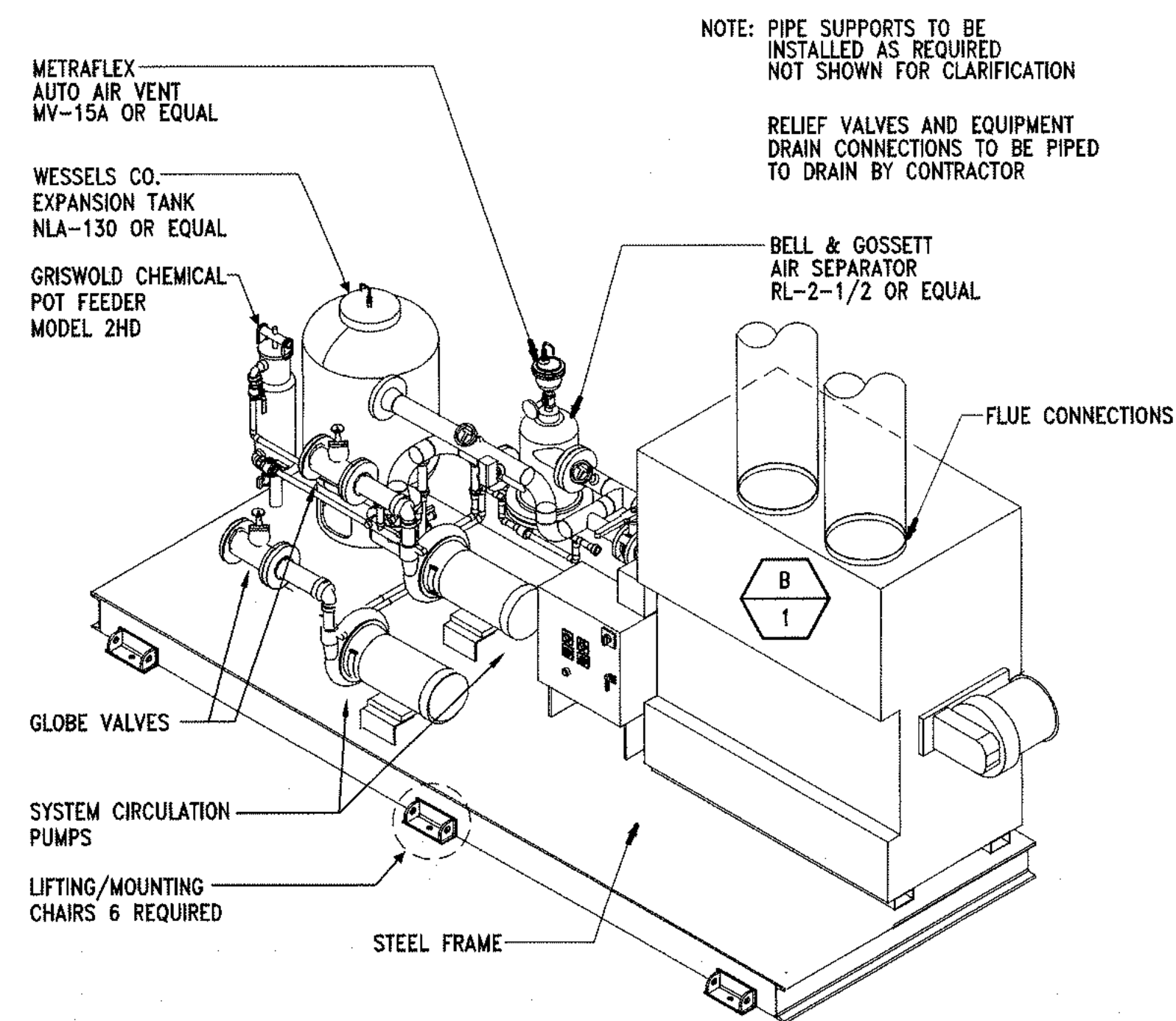
COMMUNITY HALL
FIRST FLOOR
AND ROOF PLANS

scale: VAPES date: 2003.04.18
drawn by: project number: 501.037.00.00
sheet number:

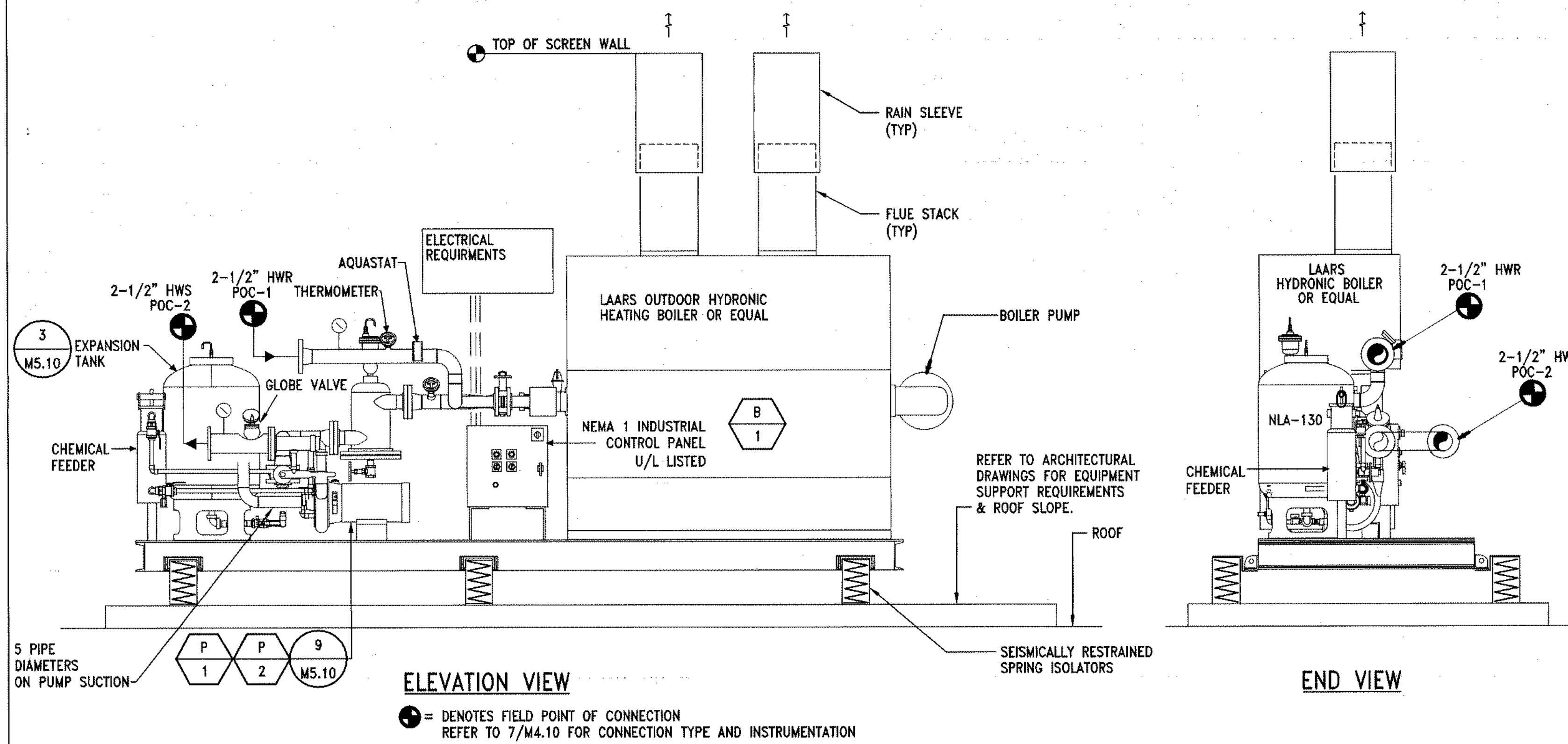
M2.21

BOILER NOTES:

- (1) ALL PIPING LARGER THAN 2" SHALL BE SCH 40 BLACK STEEL WELDED PIPE.
- (2) ALL PIPING 2" AND SMALLER SHALL BE TYPE L COPPER.
- (3) STEEL FRAME AND PIPING SHALL RECEIVE TWO COATS OF GRAY MACHINE ENAMEL.
- (4) COMPLETE SYSTEM SHALL BE HYDRO TESTED TO 125 PSI PRIOR TO SHIPPING.
- (5) APPROXIMATE SHIPPING WEIGHT : 2900 LBS.
- (6) APPROXIMATE OPERATING WEIGHT : 3200 LBS
- (7) ALL WELDED WATER PIPING SHALL BE WELDED IN ACCORDANCE TO ASME B31.9
- (8) COMPLETE PACKAGED SYSTEM SHALL BE UL LISTED.



ISOMETRIC PERSPECTIVE



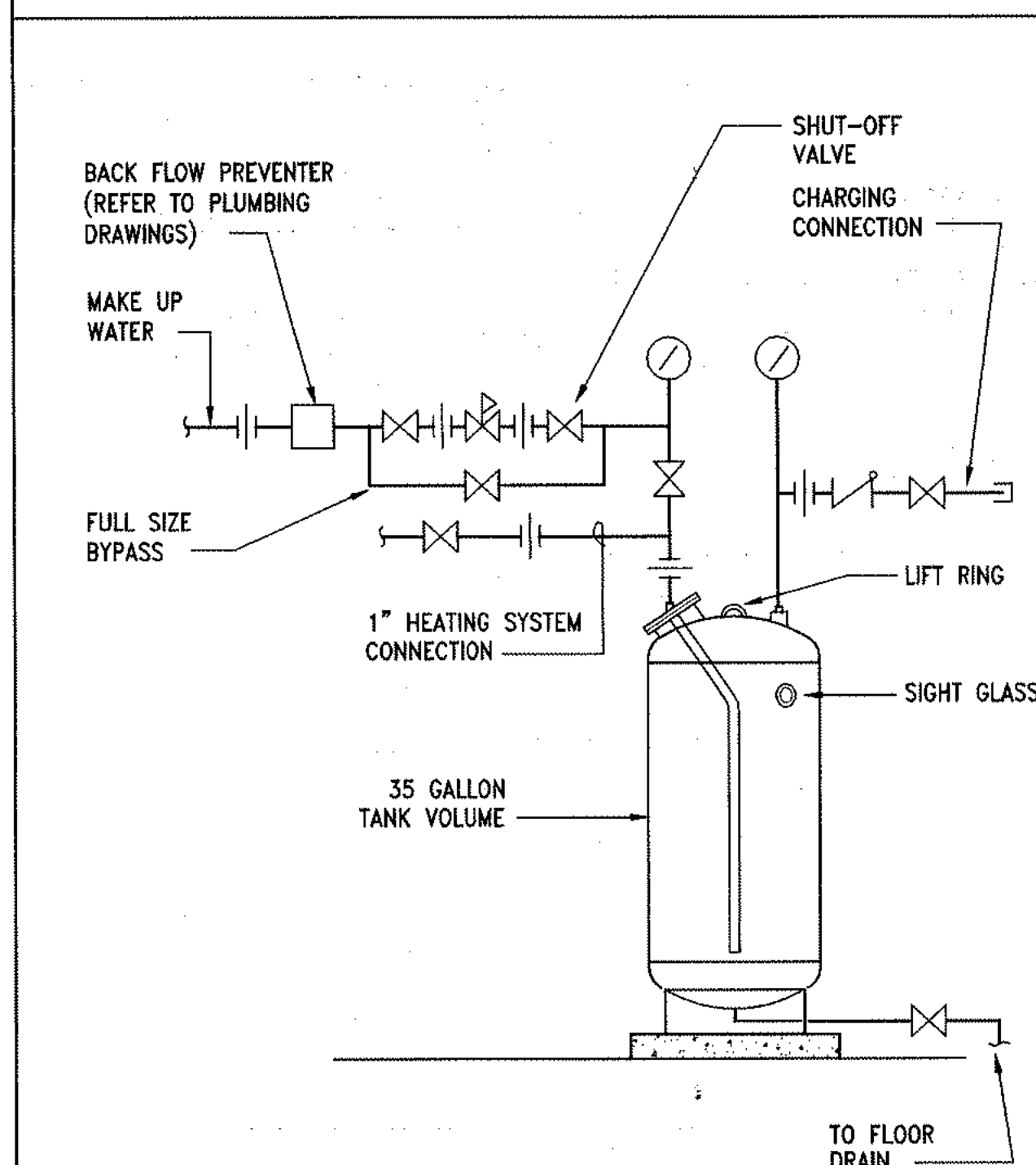
ELEVATION VIEW

END VIEW

● = DENOTES FIELD POINT OF CONNECTION
REFER TO 7/M4.10 FOR CONNECTION TYPE AND INSTRUMENTATION

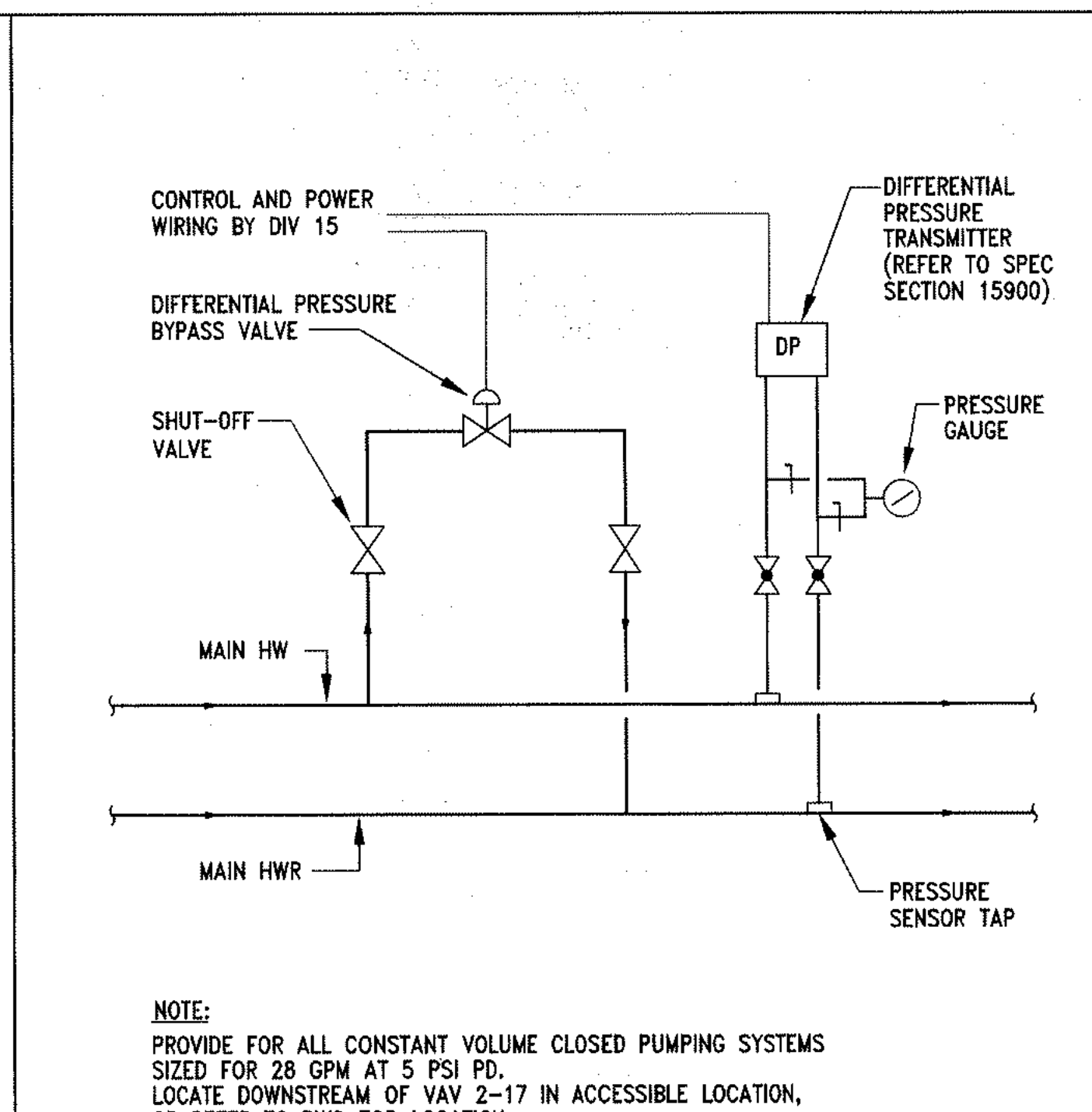
4 PACKAGED HYDRONIC HEATING SYSTEM

NOT TO SCALE



3 VERTICAL EXPANSION TANK CONNECTION

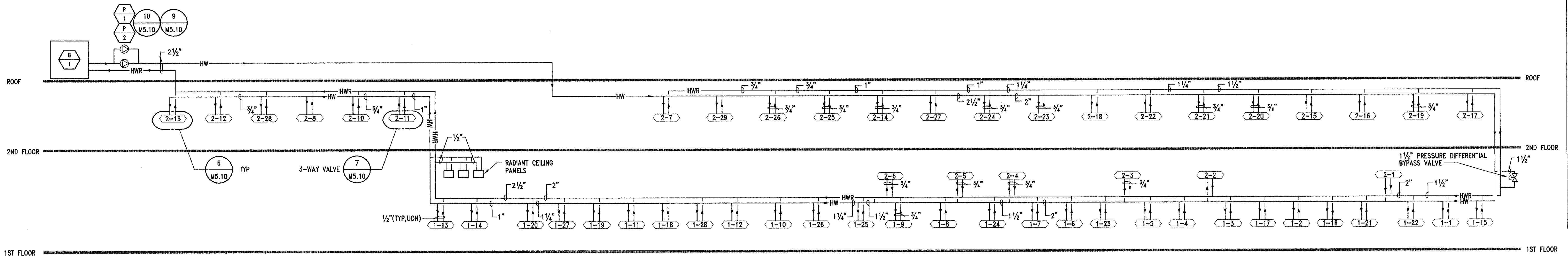
NO SCALE



2 DIFFERENTIAL PRESSURE BYPASS VALVE

NO SCALE

NOTE:
PROVIDE FOR ALL CONSTANT VOLUME CLOSED PUMPING SYSTEMS
SIZED FOR 28 GPM AT 5 PSI PD.
LOCATE DOWNSTREAM OF VAV 2-17 IN ACCESSIBLE LOCATION,
OR REFER TO DWG FOR LOCATION.



1 HEATING WATER FLOW DIAGRAM

11-29-04 Updated Contract Documents

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FLOW DIAGRAM

scale NONE date 2003.04.18
drawn by project number 501.03770.00
sheet number

M4.10

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Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
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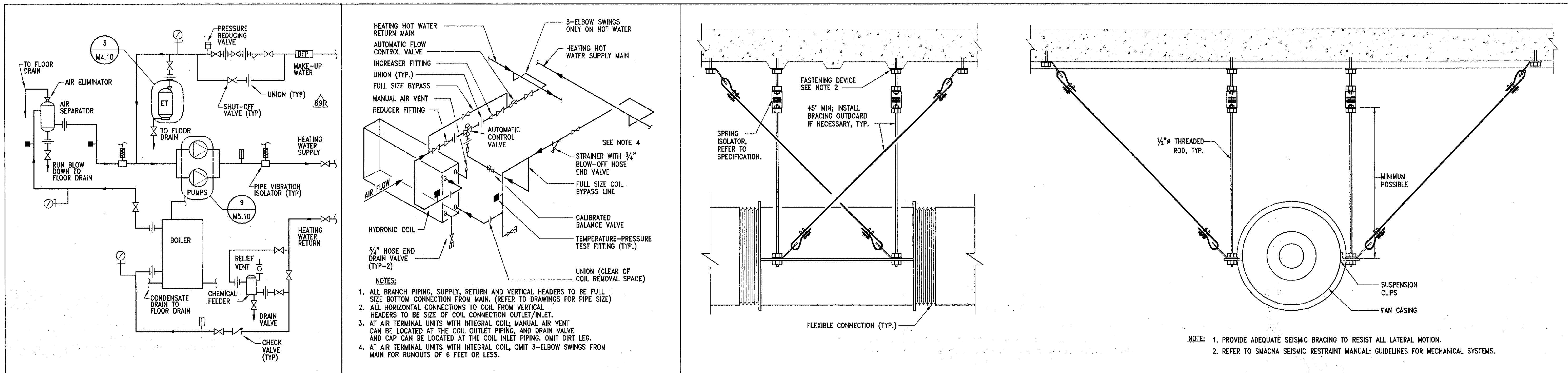
revisions

stamp

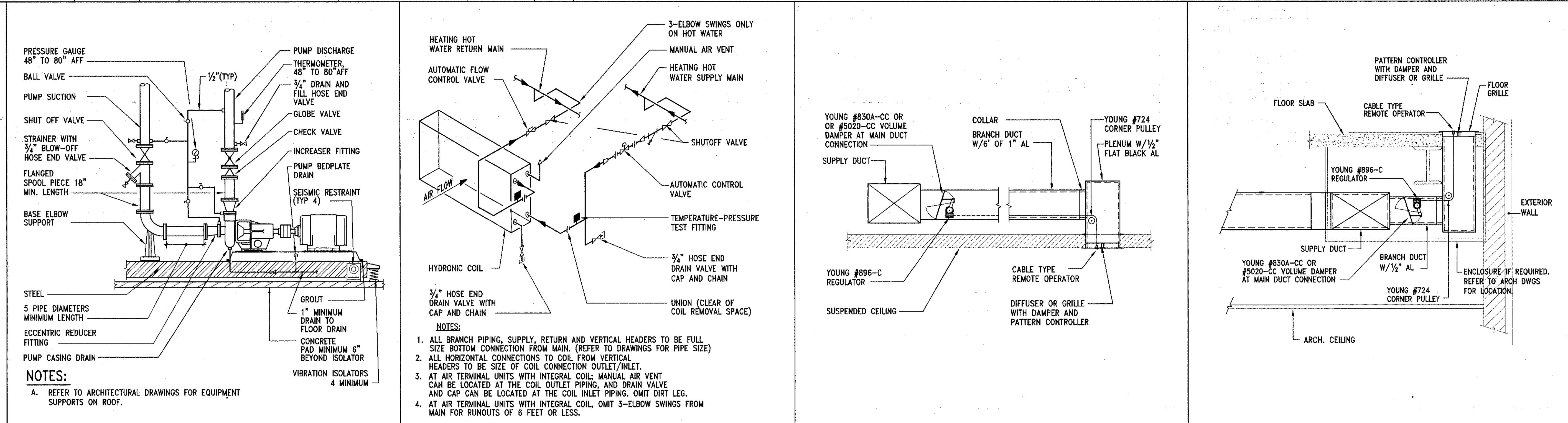
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sheet title

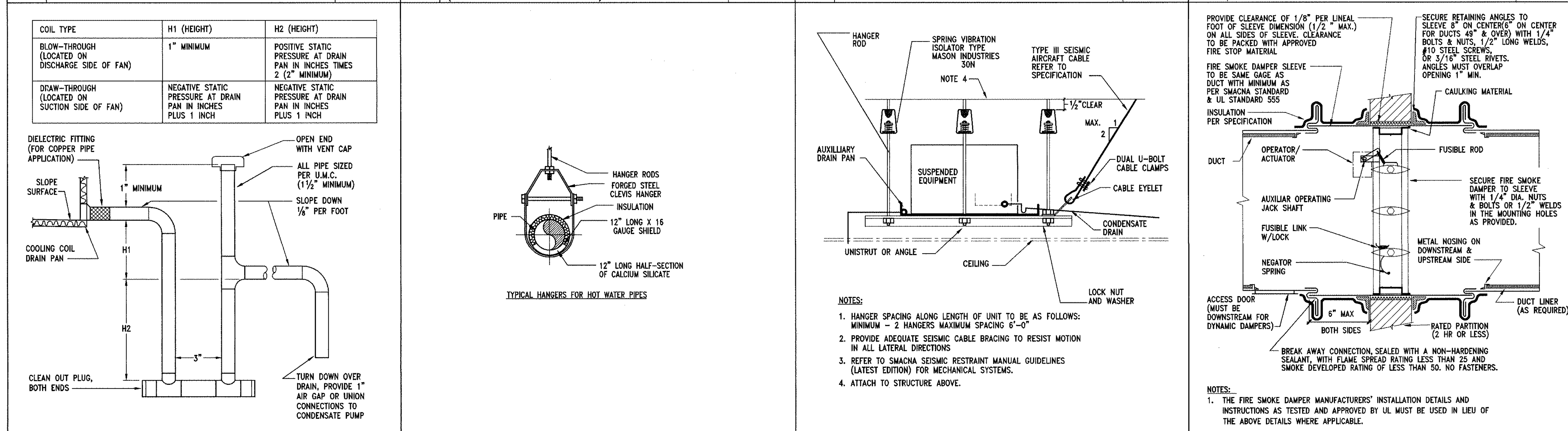
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10 BOILER PIPING NO SCALE 7 SINGLE HYDRONIC COIL PIPING (3-WAY CONTROL VALVE) NO SCALE 3 IN-LINE FAN SUPPORT NOT TO SCALE



9 END SUCTION PUMP ON PACKAGED BOILER HEATING SYSTEM NOT TO SCALE 6 SINGLE HYDRONIC COIL PIPING (2-WAY CONTROL VALVE) NO SCALE 11 LINEAR CEILING DIFFUSER NOT TO SCALE 2 LINEAR FLOOR GRILLE NOT TO SCALE



8 COOLING COIL CONDENSATE TRAP NOT TO SCALE 5 HEATING HOT WATER PIPE HANGER (SINGLE PIPES) NOT TO SCALE 4 SUSPENDED EQUIPMENT WITH SEISMIC CABLES NOT TO SCALE 1 COMBINATION FIRE/SMOKE DAMPER 1-1/2 HOUR FIRE RATING LEAKAGE CLASS 1 NOT TO SCALE

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Cupertino, CA 95014
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408 777 3333 F

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500 Menlo Drive, Suite 1
Redwood City, CA 94065
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

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Engineers, Inc.
160 Pine Street
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370 Barran Street
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2004.08.05 CCD No. 87
2004.08.16 CCD No. 87R

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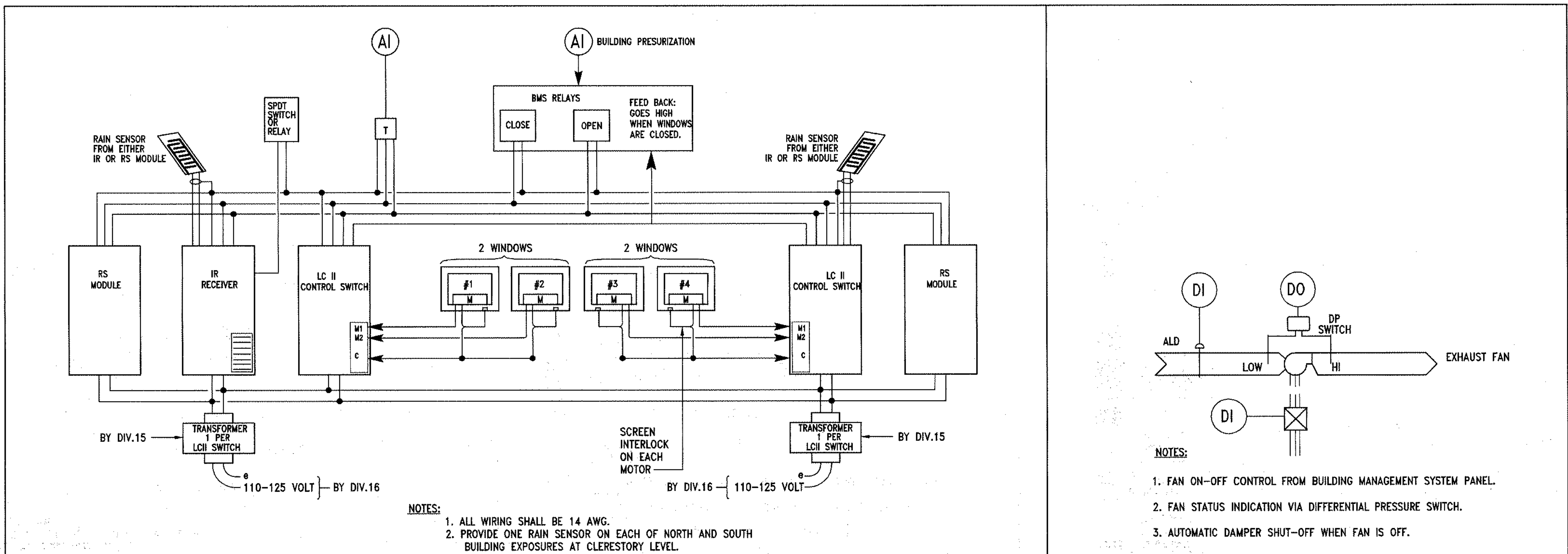
DETAILS

scale: NONE date: 2003.04.18
drawn by: project number: 501.0370.00
sheet number:

M5.10

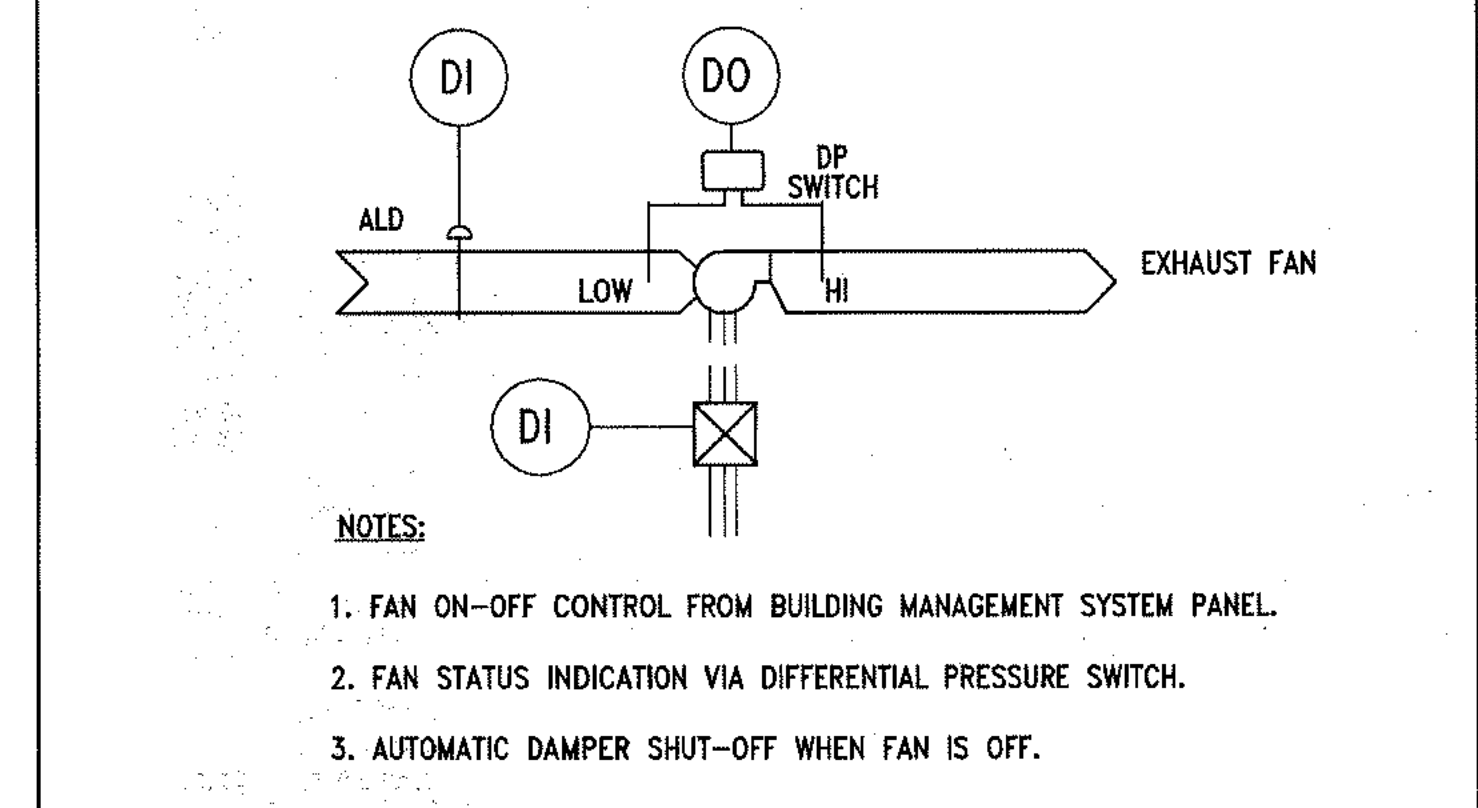
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- NOTES:**
- AI = ANALOG INPUT
 - AO = ANALOG OUTPUT
 - DI = DIGITAL INPUT
 - DO = DIGITAL OUTPUT
 - DCC = DIRECT DIGITAL CONTROL
 - T = TEMPERATURE SENSOR
 - D = DAMPER MOTOR



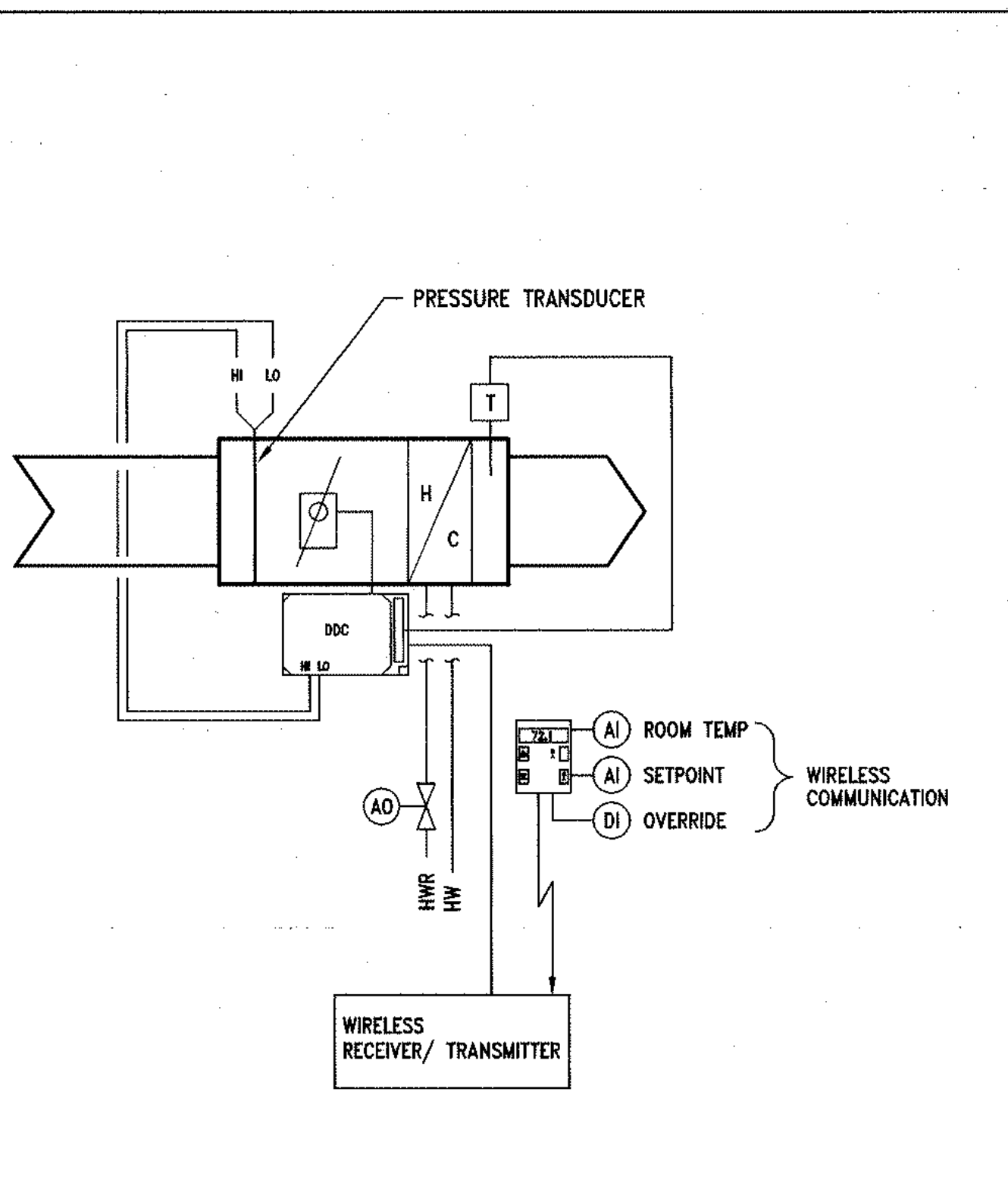
6 COMMUNITY HALL OPERABLE CLERESTORY WINDOWS

NO SCALE



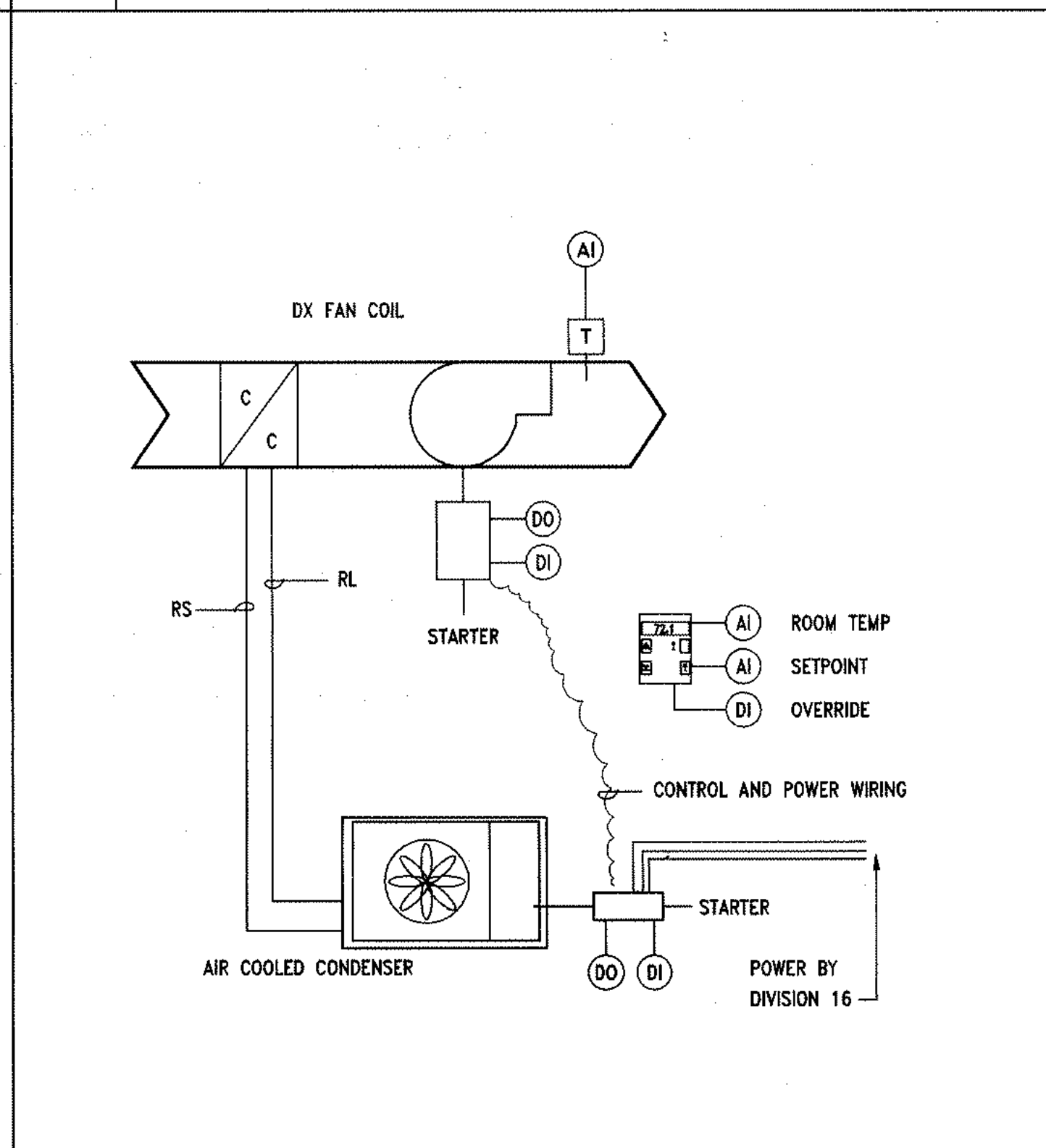
3 TYPICAL EXHAUST SYSTEMS

NO SCALE



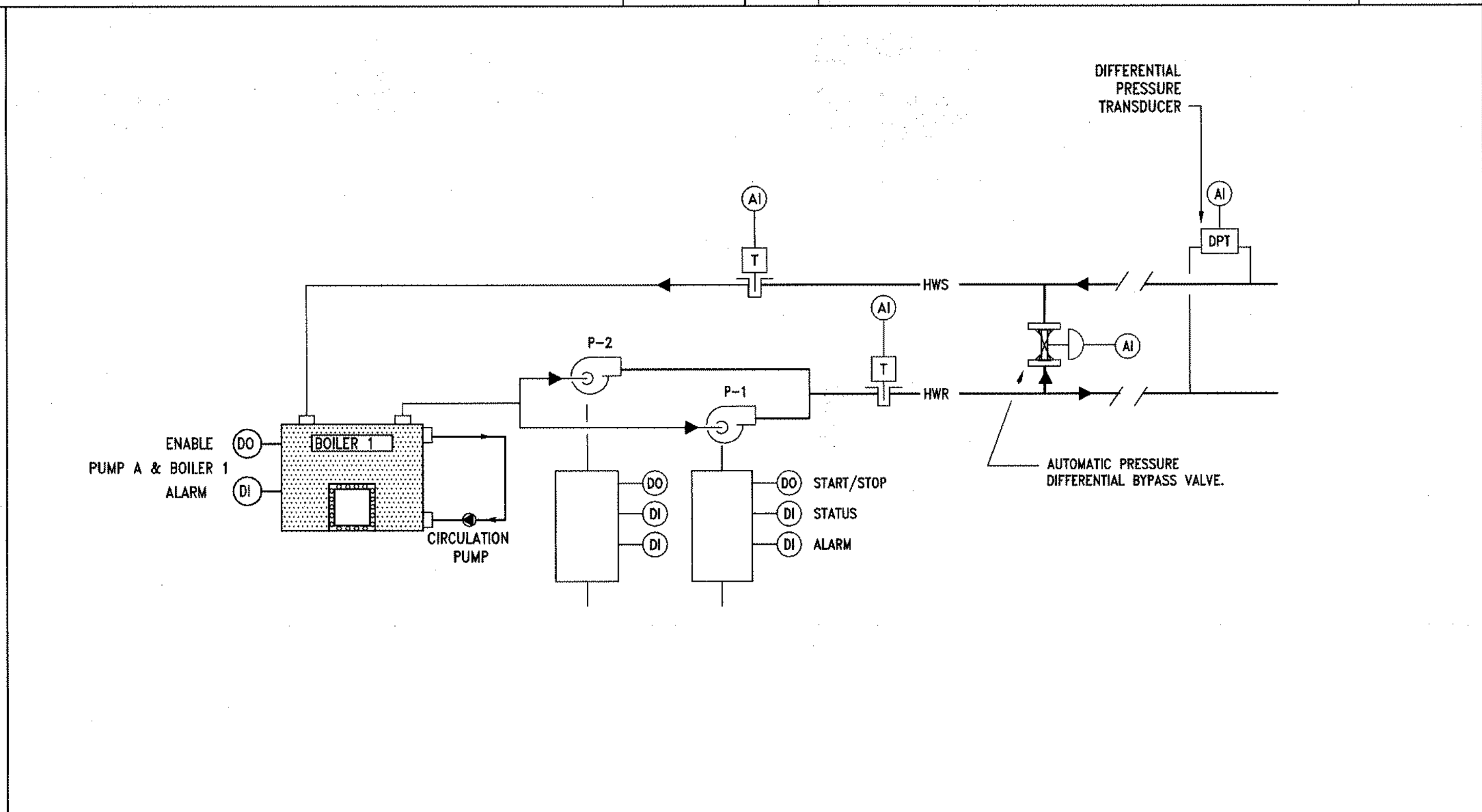
7 VARIABLE AIR VOLUME TERMINAL WITH REHEAT

NO SCALE



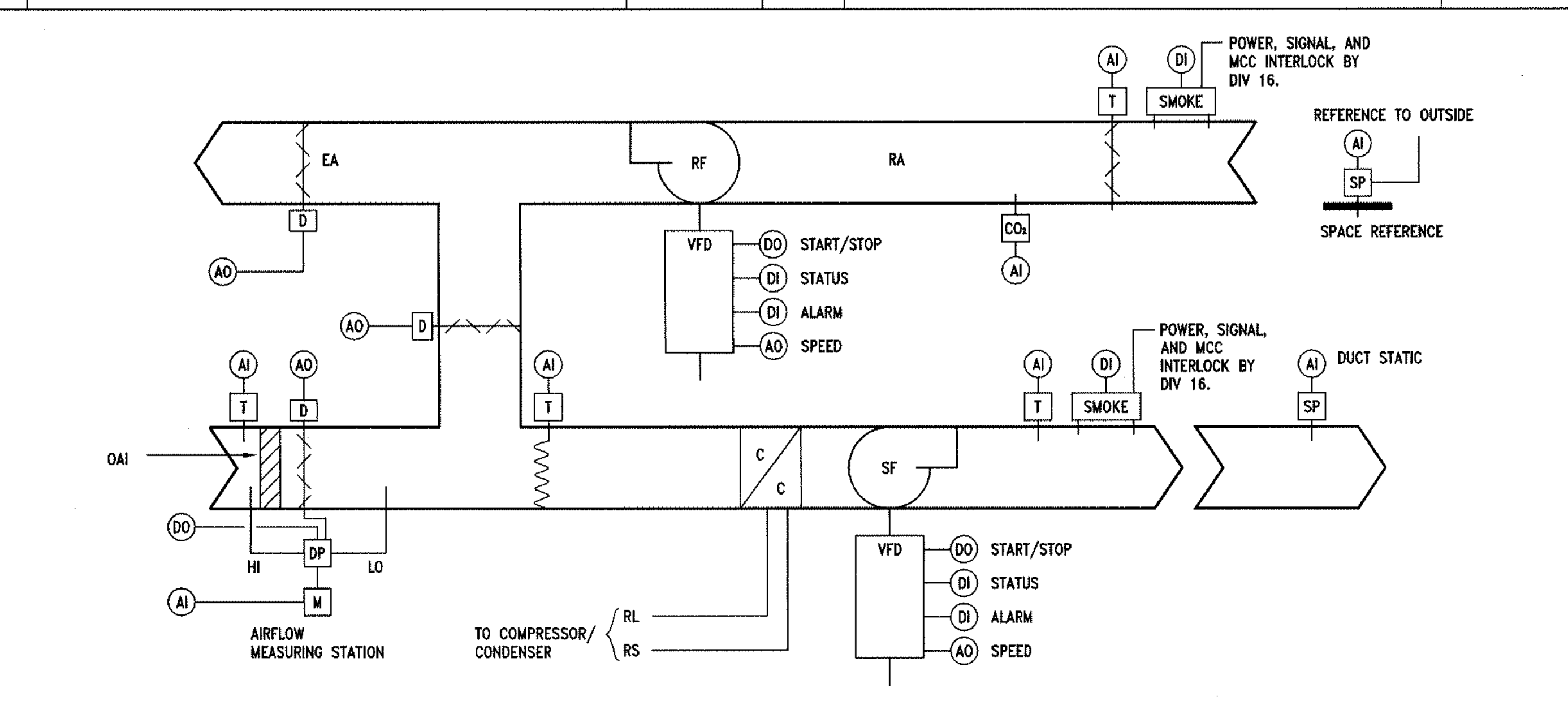
5 FAN COIL UNIT AND AIR COOLED CONDENSER

NO SCALE



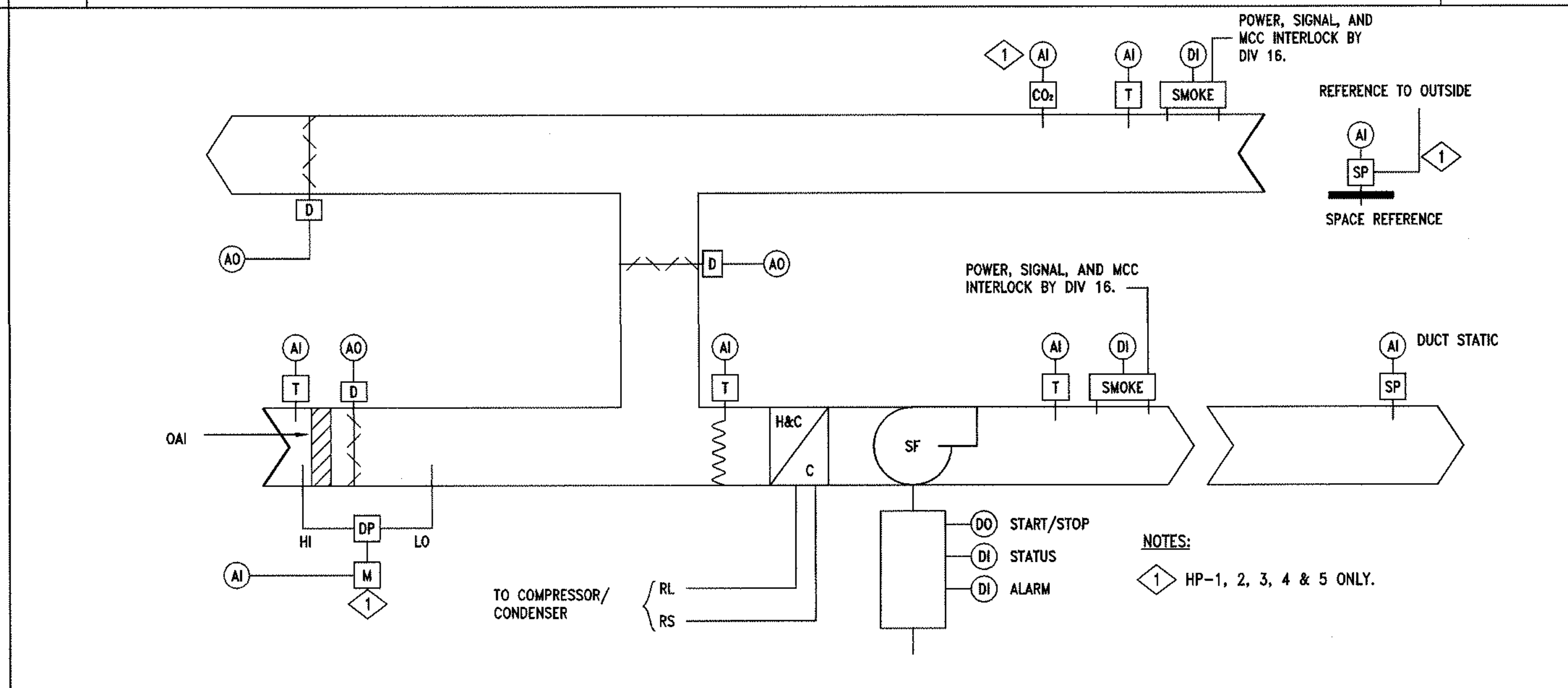
2 SECONDARY HOT WATER CONTROL

NO SCALE



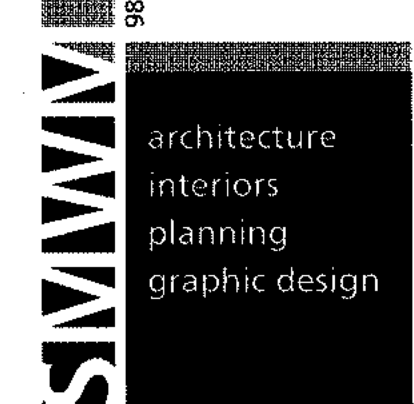
4 VARIABLE VOLUME AC UNIT: AC-1

NO SCALE



1 CONSTANT VOLUME HEAT PUMP UNITS (HP-1 THRU HP-7)

NO SCALE



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Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
500 Merlo Drive, Suite 1
Redwood City, CA 94065
916 435 2400 T
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Hargreaves
Associates
2020 17th Street
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DIAGRAMS

scale NONE date 2003.04.18
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ABBREVIATIONS	
L	LAVATORY
LDR	LEADER
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
MS	MOP SINK
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
OD	OVERFLOW DRAIN
OST	OVERFLOW STORM PIPING
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PAV	PRE-ACTION VALVE
PD	PLANTER DRAIN
PD	PUMP DISCHARGE
P/FT	PITCH PER FOOT
PG	PRESSURE GAUGE
PIV	POST INDICATING VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RED	ROOF RECEPTOR DRAIN
RD	ROOF DRAIN
S	SOIL
SA	SHOCK ABSORBER
SAN	SANITARY
SD	SMOKE DETECTOR
SE	SEWAGE EJECTOR
SED	SEWAGE EJECTOR DISCHARGE
SF	SQUARE FEET
SK	SINK
SPD	SUMP PUMP DISCHARGE
SP	SUMP PUMP
SPKR	SPRINKLER
SS	SERVICE SINK
ST	STORM PIPING
TOP	TOP OF PIPE
TOS	TOP OF SINK
TPV	TRAP PRIMER VALVE
TS	TAMPER SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VP	VACUUM PUMP
VR	VENT RISE
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WH	WALL HYDRANT
Z	ZONE

ABBREVIATIONS	
ABD	AUTOMATIC BALL DRIP
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BOB	BOTTOM OF THE BEAM
BY	BALANCING VALVE
CALC	CALCULATION
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COTG	CLEANOUT TO GRADE
CO	CLEANOUT
CFF	CAP FOR FUTURE CONNECTION
CONN	CONNECTION
CONT	CONTINUATION
CP	CIRCULATING PUMP
CI	CAST IRON
CV	CHECK VALVE
CW	COLD WATER
DIA	DIAMETER
DI	DEIRONIZER
DN	DOWN
DR	DRAIN
DWG	DRAWING
(E)	EXISTING
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FF	FINISH FLOOR
FL	FLOOR
FSK	FLOOR SINK
FSP	FIRE STANDPIPE
FS	FLOW SWITCH
FT	FEET
FU	FIXTURE UNIT
G	LOW PRESSURE NATURAL GAS
GAL	GALLONS
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB
HCLG	HUNG CEILING
HT	HEAT TRACING
HW	HOT WATER
HWC	HOT WATER CIRCULATION
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
IW	INDIRECT WASTE
JS	JANITOR'S SINK

LEGEND	
	VALVE (SPECIFICATION FOR TYPE)
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	OS&Y (OUTSIDE SCREW & YOKE) VALVE
	CHECK VALVE WITH A.B.D.
	BALANCING VALVE
	VALVE WITH TAMPER SWITCH
	GAS COCK VALVE
	RELIEF VALVE
	MIXING VALVE
	ANGLE RELIEF VALVE
	UNION
	REDUCER
	ECCENTRIC REDUCER (E.R.)
	SLEEVE
	PRESSURE GAUGE AND COCK
	THERMOMETER
	WATER FLOW SWITCH
	PUMP
	METER
	SPRINKLER INSPECTOR TEST STATION
	FLOOR DRAIN, AREA DRAIN
	FLOOR SINK
	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	POINT OF CONNECTION (NEW TO EXISTING)
	FIRE DEPARTMENT CONNECTION WALL MOUNTED
	FIRE HOSE VALVE
	FIRE HOSE VALVE CABINET
	FIRE DEPT. HOSE VALVE W/ CAP & CHAIN
	ROOF MANIFOLD
	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	HOSE BIBB
	ALARM CHECK VALVE W/ ALL RELATED APPURTENANCES
	PRE-ACTION VALVE W/ ALL RELATED APPURTENANCES
	DRY PIPE VALVE W/ ALL RELATED APPURTENANCES
	DOUBLE CHECK VALVE
	BACKFLOW PREVENTER ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SPRINKLER HEAD

LEGEND	
	SANITARY OR WASTE ABOVE FLOOR
	SANITARY OR WASTE BELOW FLOOR
	STORM DRAIN PIPING
	OVERFLOW STORM PIPING
	CONDENSATE DRAIN
	SPRINKLER DRAIN PIPING
	SUMP PUMP DISCHARGE
	FIRE WATER SUPPLY
	FIRE SPRINKLER PIPING
	COMBINED FIRE STANDPIPE
	NATURAL GAS PIPING (LOW PRESSURE)
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED
	CHANGE IN PIPE ELEVATION
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	WALL HYDRANT
	FLOOR CLEANOUT/GRADE CLEANOUT
	ROOF CLEANOUT/GRADE CLEANOUT
	PIPE DOWN
	PIPE UP
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	VALVE IN VERTICAL
	P-TRAP
	Y STRAINER WITH BLOW OFF VALVE
	FLEXIBLE CONNECTION
	EXPANSION LOOP SIZE
	SHOCK ABSORBER
	VACUUM BREAKER
	MANUAL AIR VENT
	AUTOMATIC AIR VENT

DRAWING LIST	
P0.01	PLUMBING LEGEND AND ABBREVIATIONS
P0.02	PLUMBING SCHEDULES
P2.00	PLUMBING SITE PLAN
P2.10	LIBRARY FIRST FLOOR PLUMBING PLAN
P2.11	LIBRARY SECOND FLOOR PLUMBING PLAN
P2.12	LIBRARY PLUMBING ROOF PLAN
P2.20	COMMUNITY HALL PLUMBING FLOOR PLAN
P2.21	COMMUNITY HALL PLUMBING ROOF PLAN
P3.10	PLUMBING ENLARGED PLANS
P5.10	PLUMBING DETAILS

GENERAL NOTES

SPRINKLER HEADS IN ALL AREAS SHALL BE LOCATED AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN AND COORDINATED WITH THE LIGHTING FIXTURES AND MECHANICAL DIFFUSERS. SPRINKLER HEAD AND FRAME ALIGNMENT IS REQUIRED IN ALL AREAS.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS FOR SPRINKLER LAYOUT IN SPECIAL CEILING SYSTEM. SPRINKLER PIPING LAYOUT MUST BE COORDINATED WITH ALL OTHER TRADES.

ALTERNATE TYPE SPRINKLER HEADS OTHER THAN THOSE SPECIFIED WILL NOT BE PERMITTED. ALL SPRINKLERS ARE QUICK RESPONSE TYPE, ORDINARY HAZARD CLASSIFICATION.

ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION SHALL BE PROTECTED BY SPRINKLERS.

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Sheet title

PLUMBING LEGEND AND ABBREVIATIONS

Scale NONE Date 2003.04.18
 Drawn by STA Project number 01.03770.00
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P0.01

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PLUMBING FIXTURE SCHEDULE						
ITEM	DESCRIPTION	CONNECTIONS				REMARKS
		S	V	CW	HW	
WC-1	WATER CLOSET	4"	2"	1 1/4"	-	WALL MOUNTED FLUSH VALVE 1.6 GPF
WC-2	WATER CLOSET	4"	2"	1 1/4"	-	WALL MOUNTED FLUSH VALVE 1.6 GPF, (ADA)
L-1	LAVATORY	2"	1 1/2"	1/2"	1/2"	UNDER COUNTER MOUNTED, (ADA)
L-2	LAVATORY	2"	1 1/2"	1/2"	1/2"	WALL HUNG, (ADA)
UR-1	URINAL	2"	1 1/2"	1"	-	WALL MOUNTED FLUSH VALVE 1.0 GPF
UR-2	URINAL	2"	1 1/2"	1"	-	WALL MOUNTED FLUSH VALVE 1.0 GPF, (ADA)
DF-1	DRINKING FOUNTAIN	2"	1 1/2"	1/2"	-	REFER TO SPECIFICATION (ADA)
SS-1	SERVICE SINK	3"	2"	3/4"	3/4"	FLOOR MOUNTED (ADA)
SK-1	SINK	2"	1 1/2"	1/2"	1/2"	COUNTER MOUNTED (ADA)
GD-1	GARBAGE DISPOSAL	2"	1 1/2"	-	-	IN-SINK-ERATOR, MODEL 333, 1/2HP, 115V, 60HZ, 6.7AMPS.
HB-1	HOSE BIBB (RESTROOM) AND (EXTERIOR)	-	-	3/4"	-	REFER TO SPECIFICATION
HB-2	HOSE BIBB (ROOF)	-	-	3/4"	-	REFER TO SPECIFICATION
FD-1	FLOOR DRAIN	2" 3"	1 1/2" 2"	1/2"	-	6" DIA. CAST IRON DRAIN WITH #Z-1023 TRAP PRIMER CONNECTION
RED-1	ROOF RECEPTOR DRAIN	4"	2"	-	-	7 1/4" CAST IRON ROOF TOP RECEPTOR
AD-1	AREA DRAIN	4"	-	-	-	12" ROUND TOP CAST IRON DRAIN WITH HEAL PROOF GRATE
RD-1	ROOF DRAIN	3" 4"	-	-	-	REFER TO SPECIFICATION
EW-1	EMERGENCY EYE/FACE WASH (ROOF)	-	-	1/2"	-	WALL MOUNTING PLATE
SS-2	SERVICE SINK	3"	2"	3/4"	3/4"	WALL MOUNTED (ADA)

PLUMBING EQUIPMENT SCHEDULE 1				
ITEM	DESCRIPTION	LOCATION	DESCRIPTION	REMARKS
EW-1	ELECTRIC WATER HEATER-INSTANT (POINT OF SERVICE)	LIBRARY TOILET ROOMS (#117, #118, #129, #130, #152, #153, #208, #209). COMMUNITY HALL TOILET ROOMS (#C104, #C107).	S-461L 4.6 kW, 208 V, 60 Hz, SINGLE PHASE, RECOVERY @ 63" RISE. INSTALL UNDER LAVATORY COUNTER. SEE DETAIL P5.10/2	
EW-2	ELECTRIC WATER HEATER-INSTANT (POINT OF SERVICE)	LIBRARY JANITOR ROOMS #110 AND #221, STORY TIME #120.	S-801 8 kW, 208 V, 60 Hz, SINGLE PHASE, RECOVERY @ 54" RISE. INSTALL UNDER LAVATORY COUNTER, NEAR SERVICE SINK. SEE DETAIL P5.10/2	
EW-3	ELECTRIC WATER HEATER	COMMUNITY HALL CATERING ROOM #C113.	ELECTRIC WATER HEATER, A.O. SMITH MODEL NO. DEL-30, 9 kW, 208 V, 60 Hz, SINGLE PHASE, 30 GALLONS OF STORAGE CAPACITY, 23 GPH RECOVERY @ 80" RISE	
EW-4	ELECTRIC WATER HEATER	LIBRARY STORAGE #127	ELECTRIC WATER HEATER, A.O. SMITH MODEL NO. DEL-40, 9 kW, 208 V, 60 Hz, THREE PHASE, 50 GALLONS OF STORAGE CAPACITY, 45 GPH RECOVERY @ 80" RISE	
ET-1	THERMAL EXPANSION TANK	LIBRARY JANITOR ROOM #221, COMMUNITY HALL CATERING ROOM #C113.	THERMAL EXPANSION TANK, 2 GALLONS CAPACITY, AMTROL MODEL NO. ST-5	

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	2004.00.00	CCD No.27R
	2004.03.05	CCD No.42

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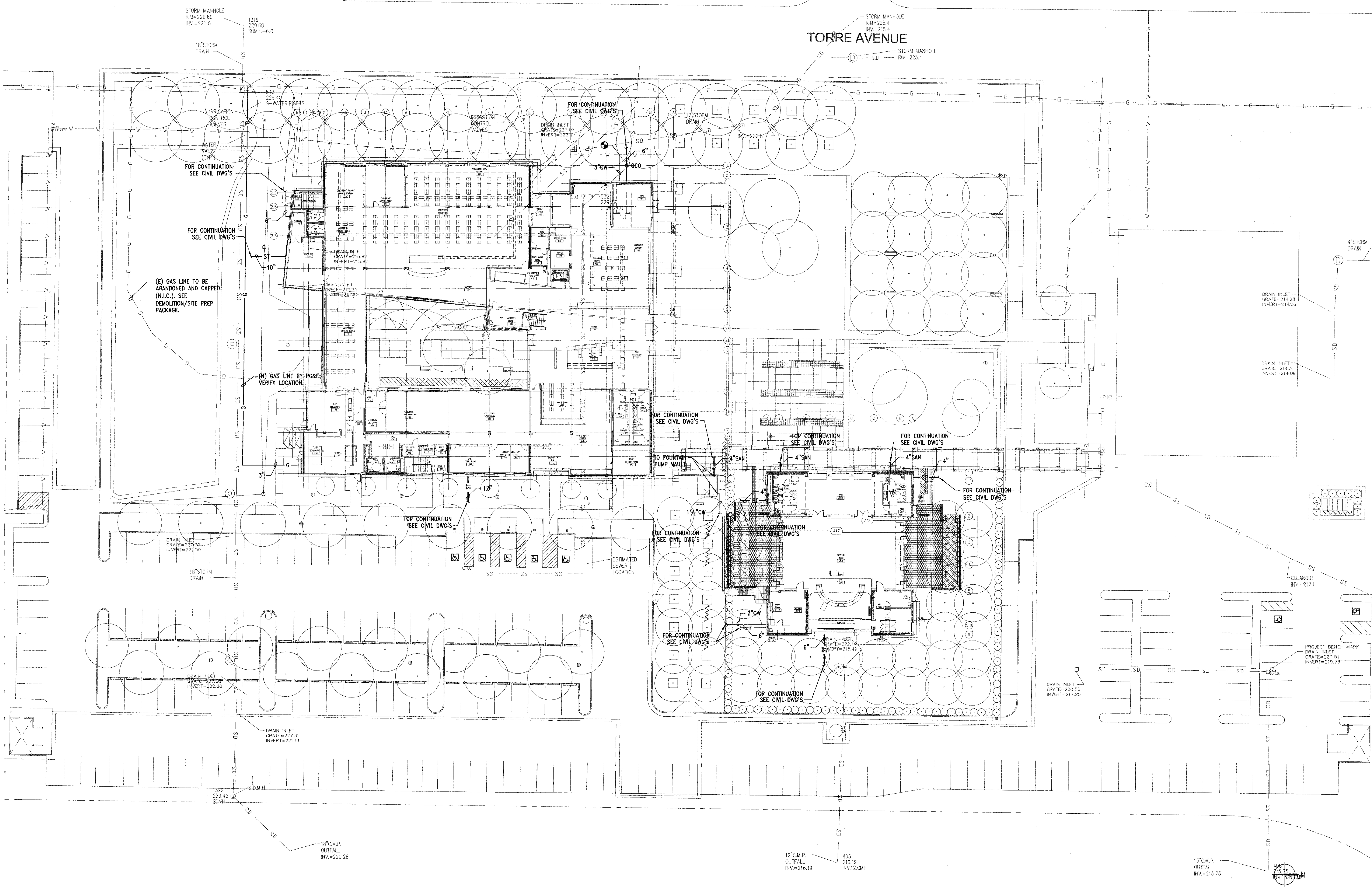
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 SCHEDULES

Scale NONE date 2003.04.18
 drawn by SYA project number 01.03770.00
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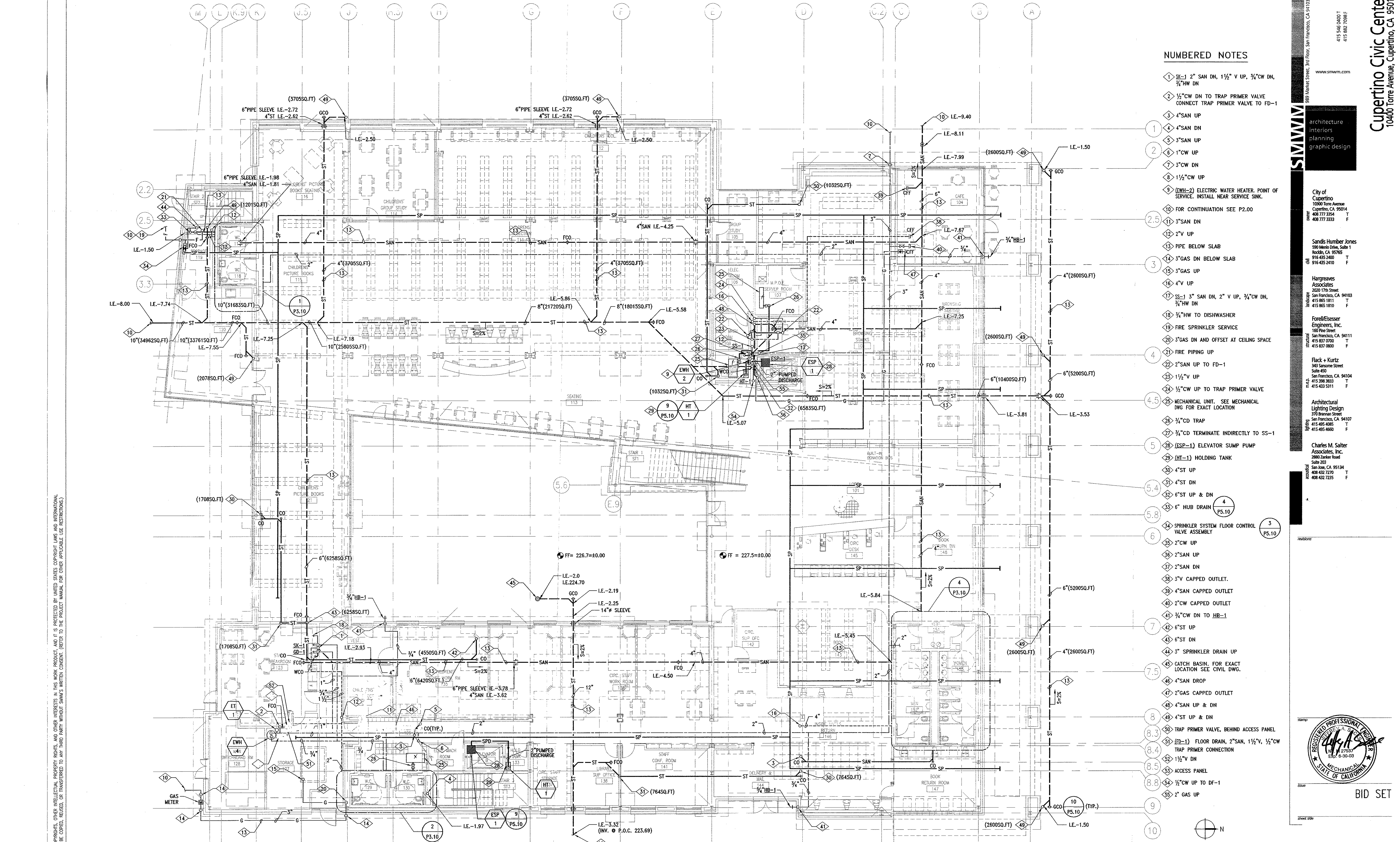
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PLUMBING
 SITE PLAN

SCALE: 1"=20'-0" date: 2003.04.18
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SITE PLAN 1



NUMBERED NOTES

- 1 SK-1 2" SAN DN, 1 1/2" V UP, 3/4" CW DN, 3/4" HW DN
- 2 1/2" CW DN TO TRAP PRIMER VALVE. CONNECT TRAP PRIMER VALVE TO FD-1
- 3 4" SAN UP
- 4 4" SAN DN
- 5 3" SAN UP
- 6 1" CW UP
- 7 3" CW DN
- 8 1 1/2" CW UP
- 9 (EWH-2) ELECTRIC WATER HEATER. POINT OF SERVICE. INSTALL NEAR SERVICE SINK.
- 10 FOR CONTINUATION SEE P2.00
- 2.5 11 3" SAN DN
- 12 2" V UP
- 13 PIPE BELOW SLAB
- 3 14 3" GAS DN BELOW SLAB
- 15 3" GAS UP
- 16 4" V UP
- 17 SS-1 3" SAN DN, 2" V UP, 3/4" CW DN, 1/2" HW DN
- 18 3/4" HW TO DISHWASHER
- 19 FIRE SPRINKLER SERVICE
- 20 3" GAS DN AND OFFSET AT CEILING SPACE
- 4 21 FIRE PIPING UP
- 22 2" SAN UP TO FD-1
- 23 1 1/2" V UP
- 24 1/2" CW UP TO TRAP PRIMER VALVE
- 4.5 25 MECHANICAL UNIT. SEE MECHANICAL DWG FOR EXACT LOCATION
- 26 3/4" CD TRAP
- 27 3/4" CD TERMINATE INDIRECTLY TO SS-1
- 5 28 (ESP-1) ELEVATOR SUMP PUMP
- 29 (HT-1) HOLDING TANK
- 30 4" ST UP
- 5.4 31 4" ST DN
- 32 6" ST UP & DN
- 33 6" HUB DRAIN (P5.10)
- 5.8 34 SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY
- 6 35 2" CW UP
- 36 2" SAN UP
- 37 2" SAN DN
- 38 3" V CAPPED OUTLET
- 39 4" SAN CAPPED OUTLET
- 40 2" CW CAPPED OUTLET
- 41 3/4" CW DN TO HB-1
- 7 42 6" ST UP
- 43 6" ST DN
- 44 3" SPRINKLER DRAIN UP
- 45 CATCH BASIN. FOR EXACT LOCATION SEE CIVIL DWG.
- 7.5 46 4" SAN DROP
- 47 2" GAS CAPPED OUTLET
- 48 4" SAN UP & DN
- 8 49 4" ST UP & DN
- 8.3 50 TRAP PRIMER VALVE, BEHIND ACCESS PANEL
- 8.4 51 (FD-1) FLOOR DRAIN, 2" SAN, 1 1/2" V, 1/2" CW TRAP PRIMER CONNECTION
- 8.5 52 1 1/2" DN
- 8.8 53 ACCESS PANEL
- 54 1/2" CW UP TO DF-1
- 9 55 2" GAS UP



FIRST FLOOR PLAN 1
1/8"=1'-0"

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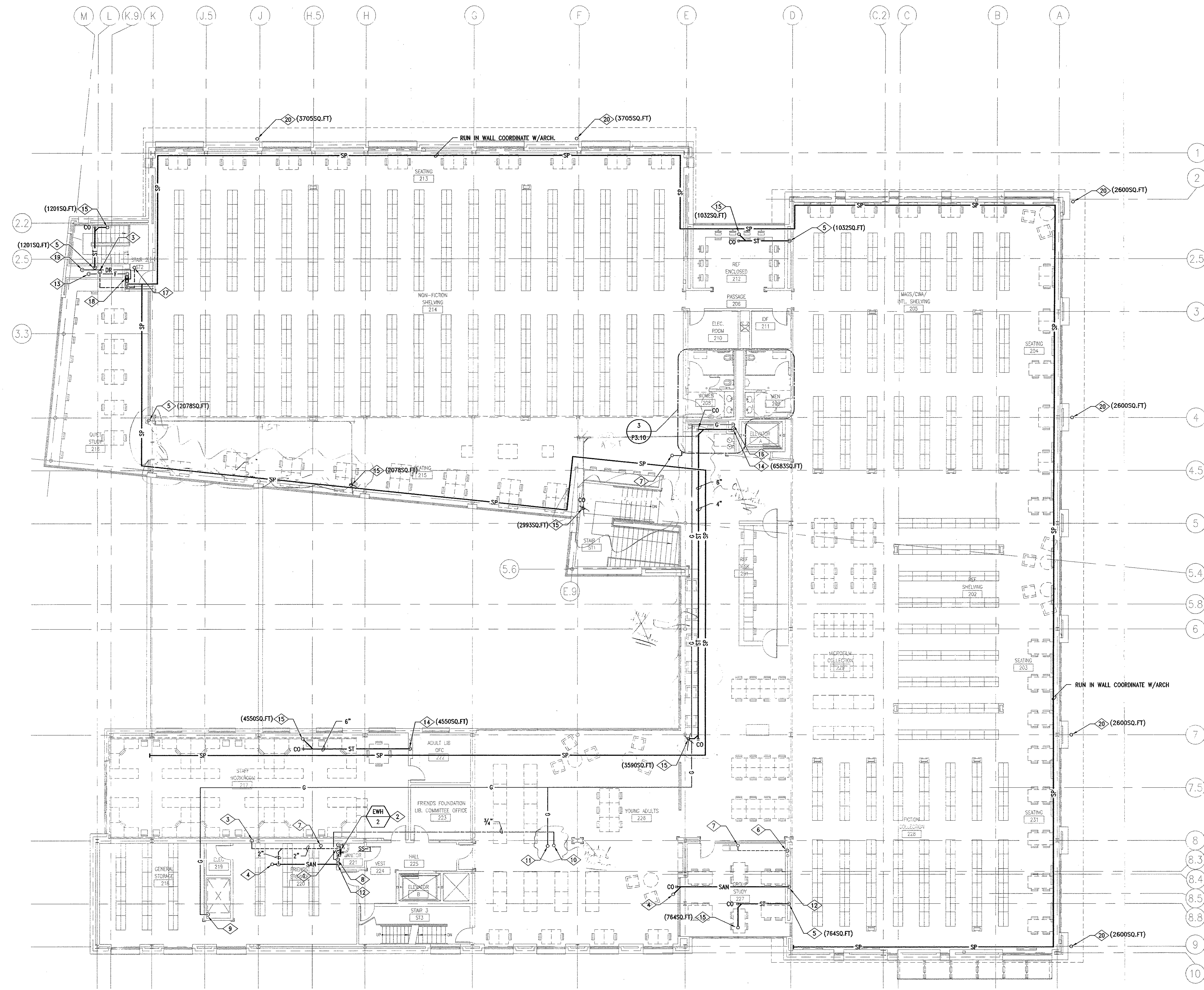
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FIRST FLOOR
PLUMBING PLAN

scale 1/8"=1'-0" date 2003.04.18
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NUMBERED NOTES

- 1 (SS-1) 3" SAN DN, 2" V UP, 3/4" CW DN, 3/4" HW DN
- 2 EWH-2 - ELECTRICAL WATER HEATER, POINT OF SERVICE
- 3 2" V DN
- 4 4" SAN UP TO RED-1
- 5 4" ST DN
- 6 4" V DN
- 7 4" VTR
- 8 1" CW DN
- 9 3" GAS DN
- 10 3/4" CW UP
- 11 3" GAS UP TO MECHANICAL UNIT
- 12 4" SAN DN
- 13 FIRE PIPE DN
- 14 6" ST DN
- 15 4" ST UP
- 16 2" GAS DN
- 17 2" VTR
- 18 SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY
- 19 3" DRAIN PIPE DN
- 20 4" ST RISER

SECOND FLOOR PLAN 1
1/8"=1'-0"

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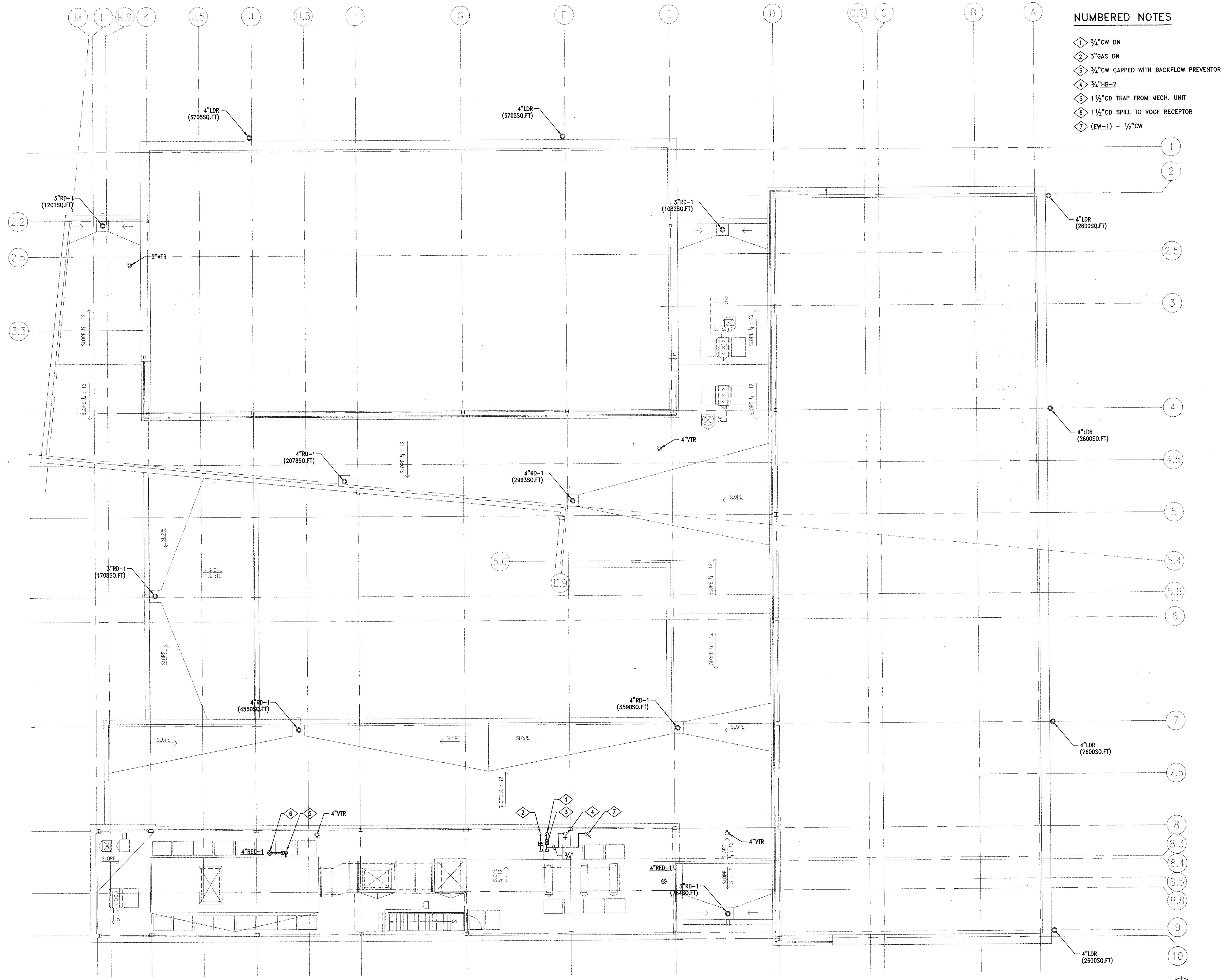
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LIBRARY
SECOND FLOOR
PLUMBING PLAN

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- NUMBERED NOTES**
- 1 3/4" CW DN
 - 2 3" GAS DN
 - 3 3/4" CW CAPPED WITH BACKFLOW PREVENTOR
 - 4 3/4" HR-2
 - 5 1 1/2" CD TRAP FROM MECH. UNIT
 - 6 1 1/2" CD SPILL TO ROOF RECEPTOR
 - 7 (EW-1) - 1/2" CW

ROOF PLAN 1
1/8"=1'-0"

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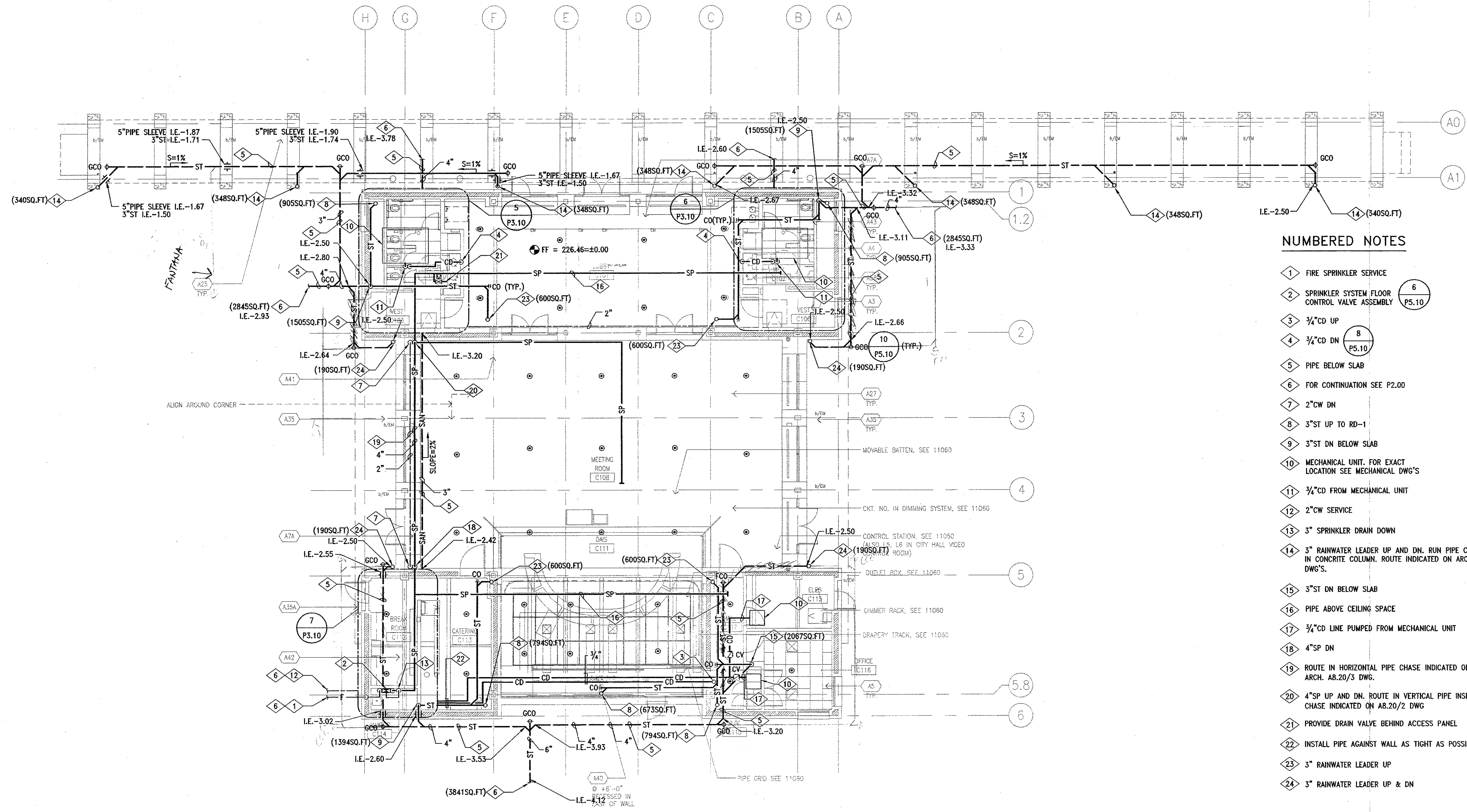
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LIBRARY
PLUMBING
ROOF PLAN

SCALE: 1/8"=1'-0"
DATE: 2003.04.18
DRAWN BY: SYA PROJECT NUMBER: 01.03770.00
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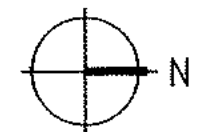
GENERAL NOTES:

- ALL SPRINKLER PIPE AND FITTINGS SHALL BE SO INSTALLED THAT THE SYSTEM CAN BE DRAINED.
- AUXILIARY DRAINS SHALL BE PROVIDED WHERE A CHANGE IN PIPING DIRECTION PREVENTS DRAINAGE OF SYSTEM PIPING THROUGH THE MAIN DRAIN VALVE.

NUMBERED NOTES

- FIRE SPRINKLER SERVICE
- SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY (P5.10)
- 3/4" CD UP
- 3/4" CD DN (P5.10)
- PIPE BELOW SLAB
- FOR CONTINUATION SEE P2.00
- 2" CW DN
- 3" ST UP TO RD-1
- 3" ST DN BELOW SLAB
- MECHANICAL UNIT. FOR EXACT LOCATION SEE MECHANICAL DWG'S
- 3/4" CD FROM MECHANICAL UNIT
- 2" CW SERVICE
- 3" SPRINKLER DRAIN DOWN
- 3" RAINWATER LEADER UP AND DN. RUN PIPE CAST IN CONCRETE COLUMN. ROUTE INDICATED ON ARCH. DWG'S.
- 3" ST DN BELOW SLAB
- PIPE ABOVE CEILING SPACE
- 3/4" CD LINE PUMPED FROM MECHANICAL UNIT
- 4" SP DN
- ROUTE IN HORIZONTAL PIPE CHASE INDICATED ON ARCH. A8.20/3 DWG.
- 4" SP UP AND DN. ROUTE IN VERTICAL PIPE INSIDE CHASE INDICATED ON A8.20/2 DWG
- PROVIDE DRAIN VALVE BEHIND ACCESS PANEL
- INSTALL PIPE AGAINST WALL AS TIGHT AS POSSIBLE
- 3" RAINWATER LEADER UP
- 3" RAINWATER LEADER UP & DN

FIRST FLOOR PLAN 1
1/8"=1'-0"



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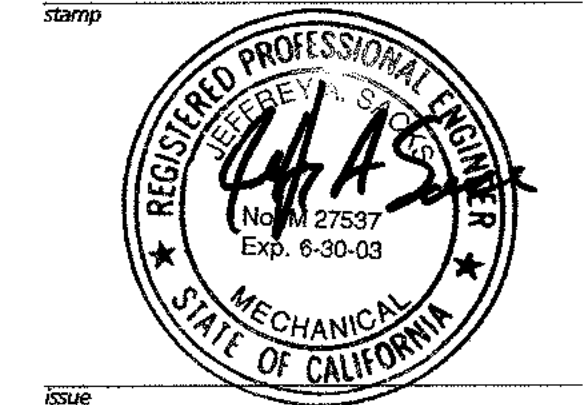
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COMMUNITY
HALL PLUMBING
FLOOR PLAN

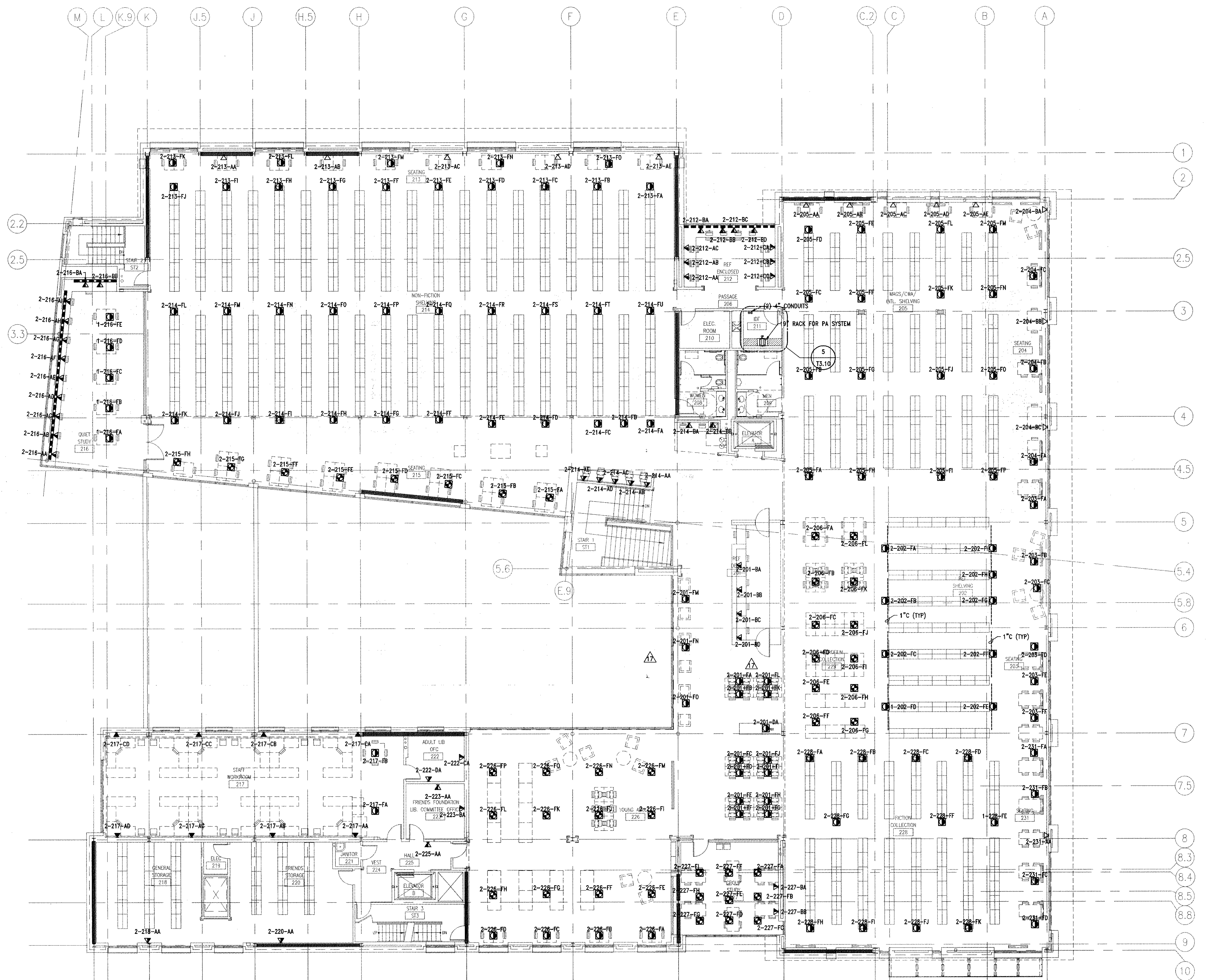
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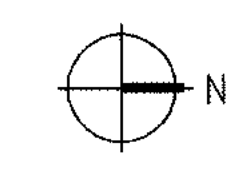
SHEET NOTES

- A. FLOOR BOXES AND POKE-THRU'S ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS/SPECS FOR REQUIREMENTS.
- B. REFER TO SHEET E2.10A FOR UNDERFLOOR DUCT LAYOUT.
- C. VERIFY ALL TELECOM OUTLETS TYPES AND MOUNTING LOCATIONS WITH ARCHITECT.
- D. SEE ELECTRICAL DRAWINGS AND SPECS FOR CONDUITS SIZING AND FLOOR BOX LOCATIONS.
- E.
- F.
- G.

NUMBERED NOTES

- ① DATA OUTLET ON ROOF FOR BMS COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.

SECOND FLOOR PLAN
1/8"=1'-0"



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Fore/Ebesser
 Engineers, Inc.
 165 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

Flack + Kurtz
 405 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415 398 3833 T
 415 433 5311 F

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 San Francisco, CA 94107
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 415 495 4060 F

**11-29-04 Updated
Contract Documents**

ccp15 11.14.03

stamp _____
 issue _____
 sheet size _____
BID SET

LIBRARY
 SECOND FLOOR
 TELECOM PLAN

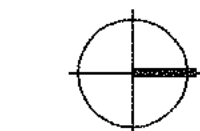
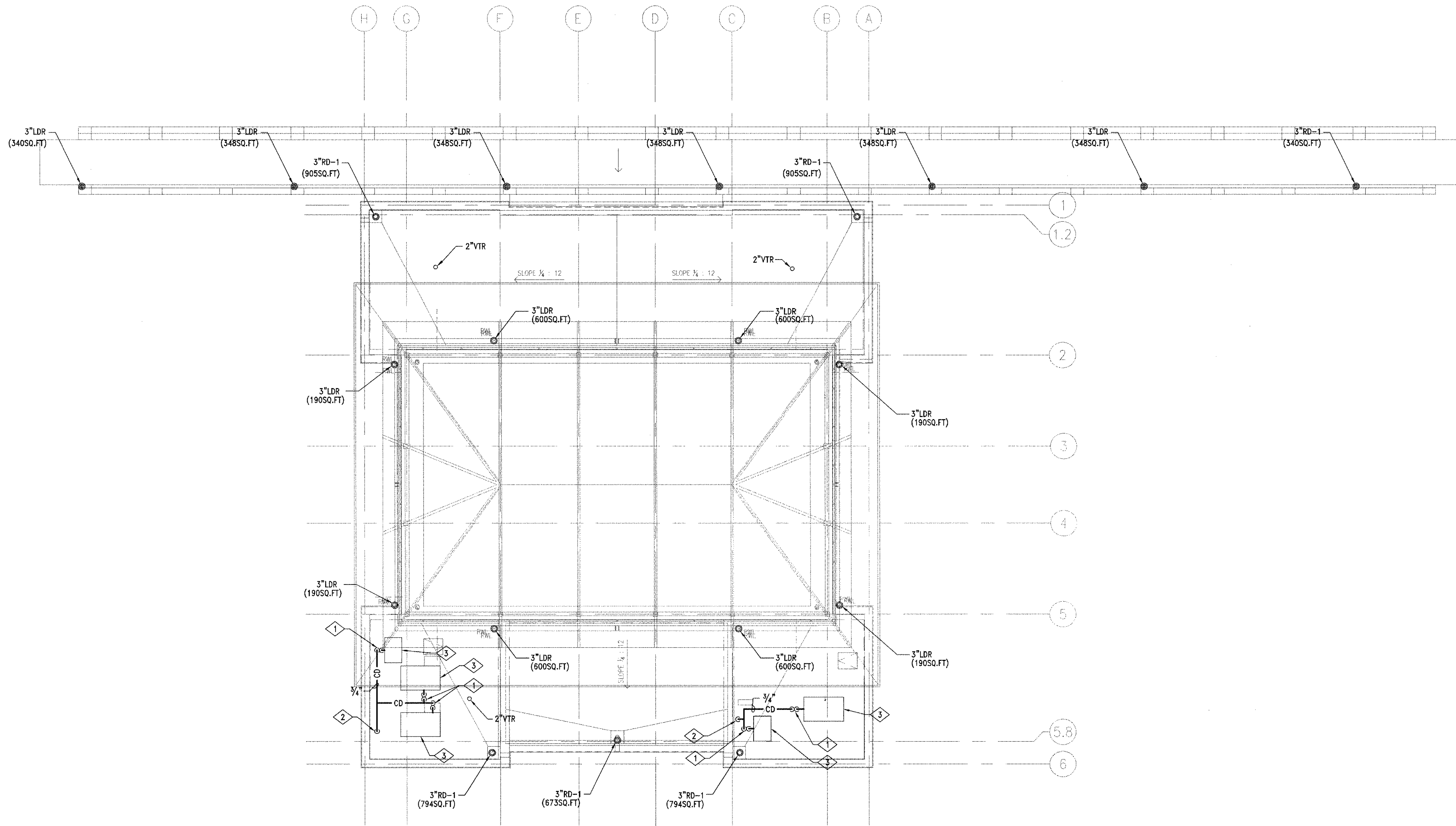
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 drawn by LL project number 01.03770.00
 sheet number _____

T2.11

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NUMBERED NOTES

- ① 3/4" CD FROM MECHANICAL UNIT
- ② 3/4" CD DN
- ③ MECHANICAL UNIT. FOR EXACT LOCATION SEE MECHANICAL DWG'S



ROOF PLAN 1
1/8"=1'-0"

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415 546 0400 T
415 882 7086 F

architecture
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City of
Cupertino
10500 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redwood City, CA 94065
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2200 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Eisesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
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Fleck + Kurtz
452 Howard Street
Suite 500
San Francisco, CA 94105-2673
415 398 3833 T
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Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

revisions

Stamp

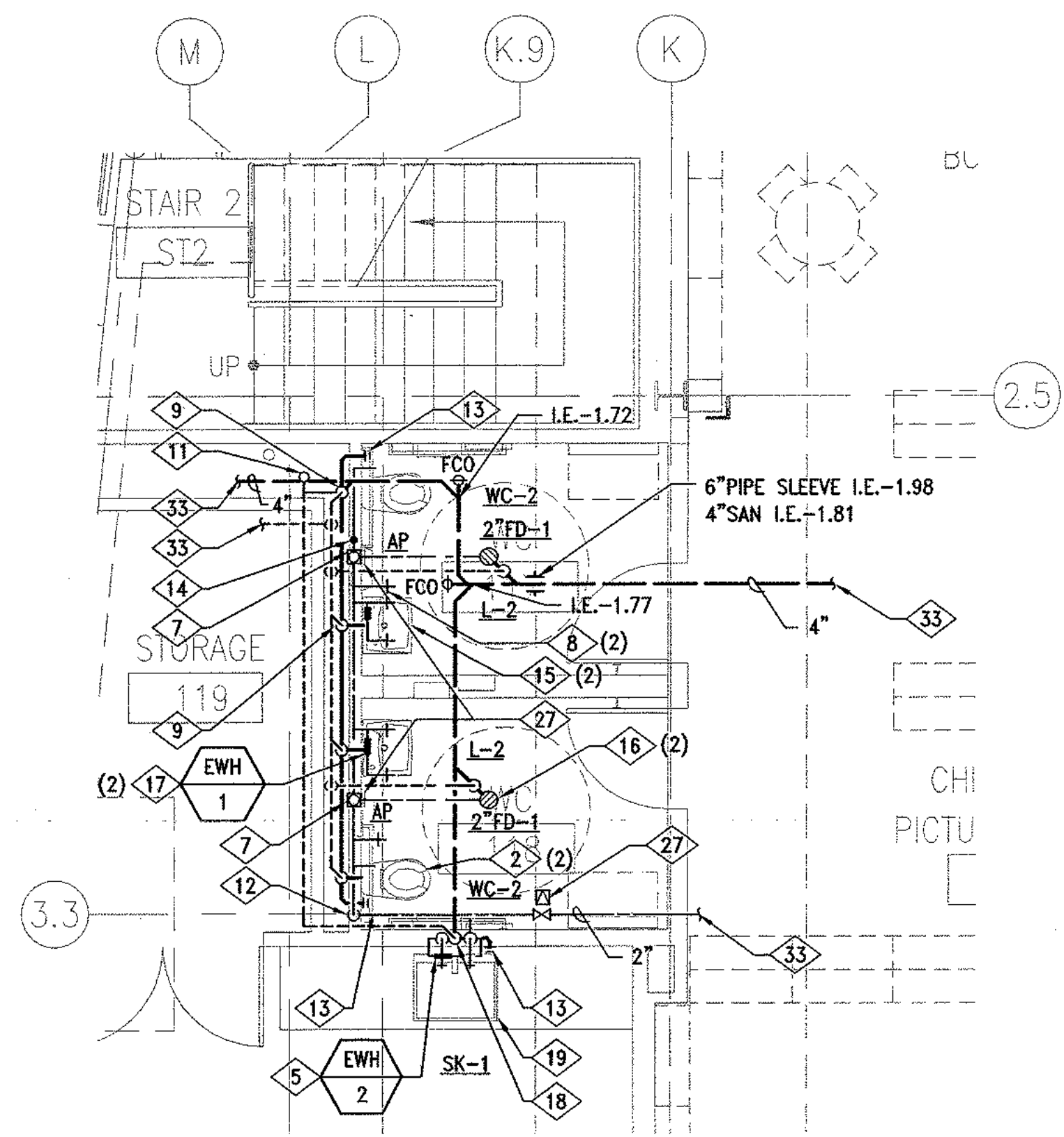
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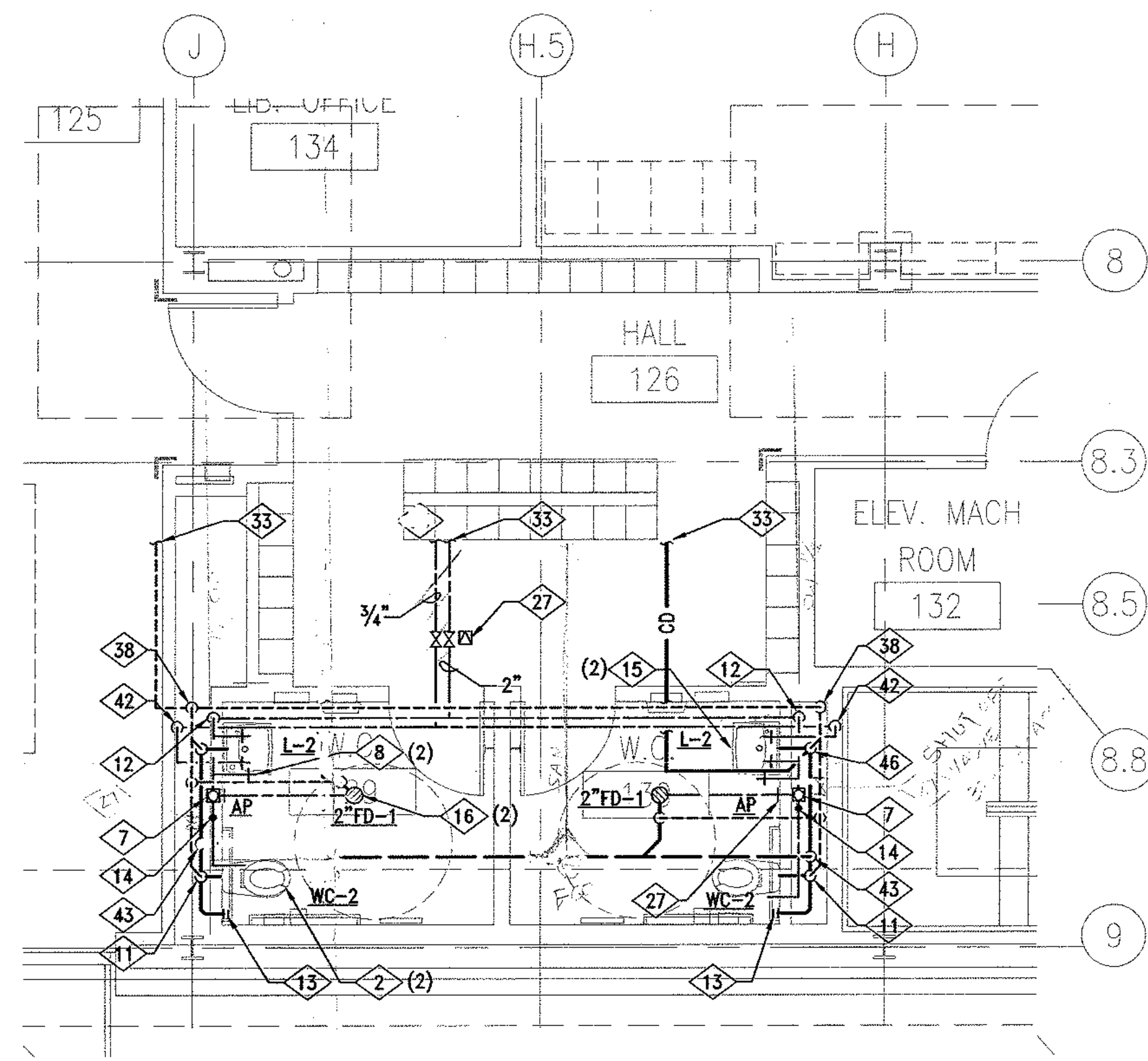
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COMMUNITY
HALL PLUMBING
ROOF PLAN

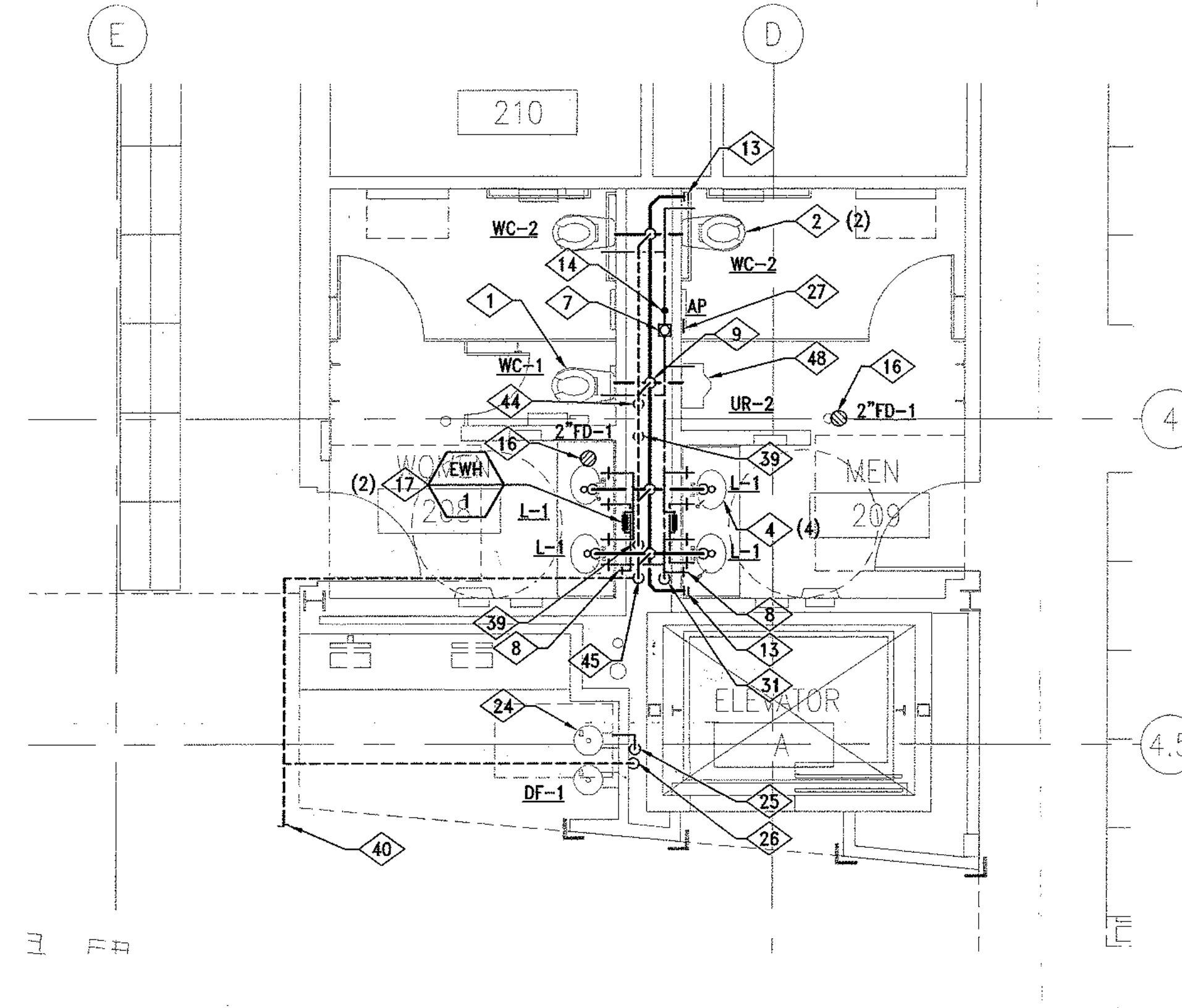
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drawn by: SYA project number: 01.03770.00
sheet number: P2.21



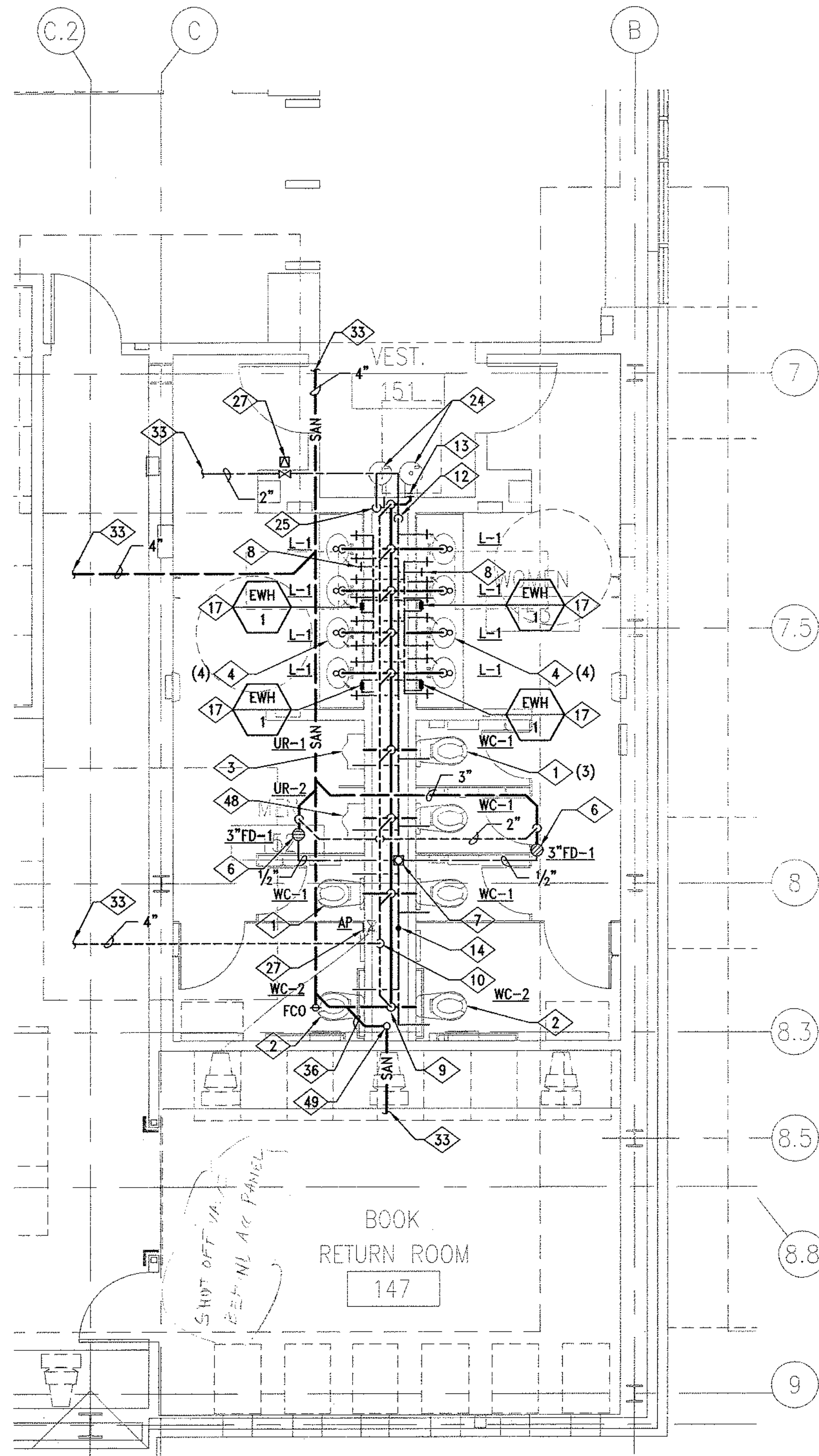
1 FIRST FLOOR PLAN (LIBRARY)
1/4"=1'-0"



2 FIRST FLOOR PLAN (LIBRARY)
1/4"=1'-0"



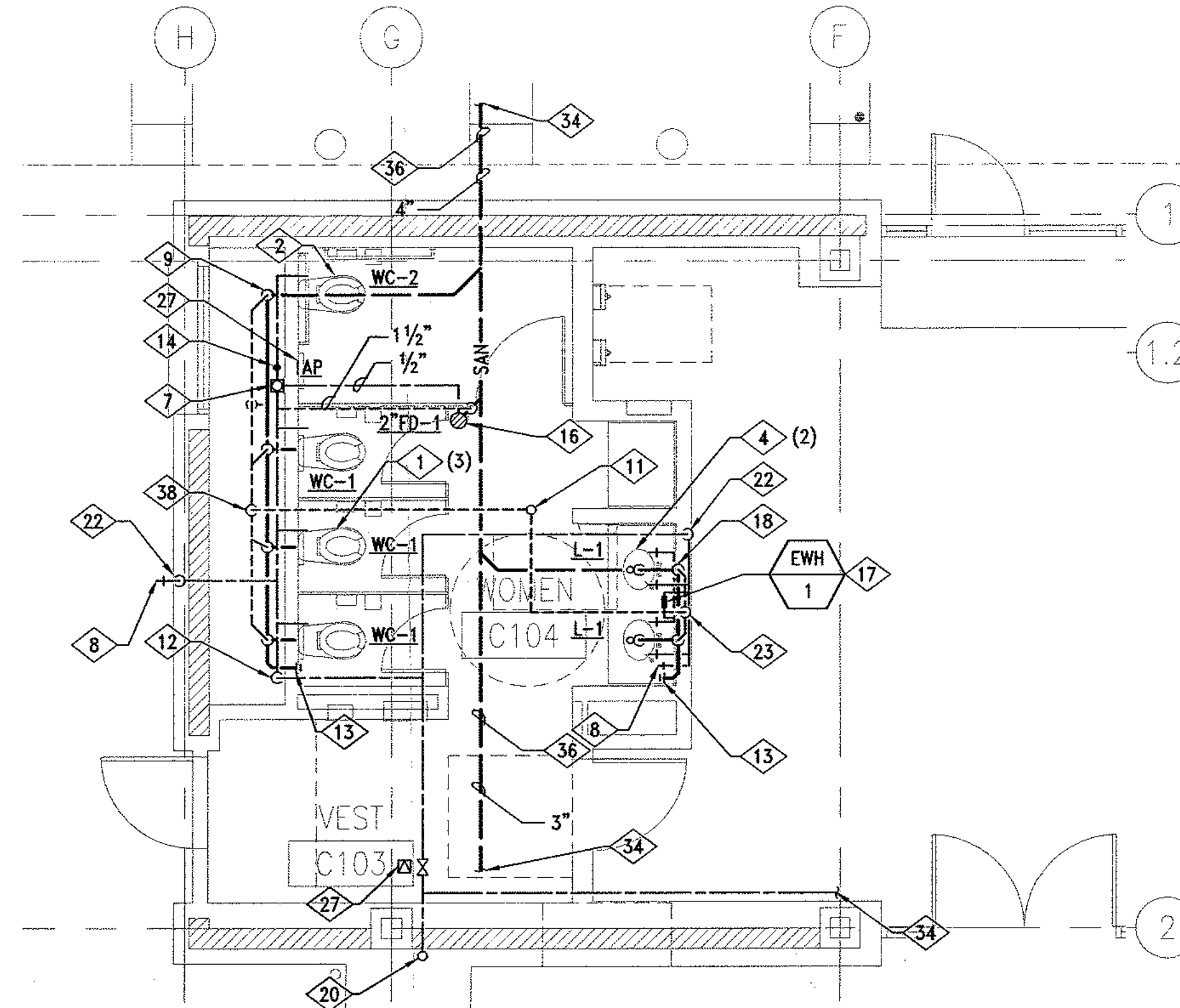
3 SECOND FLOOR PLAN (LIBRARY)
1/4"=1'-0"



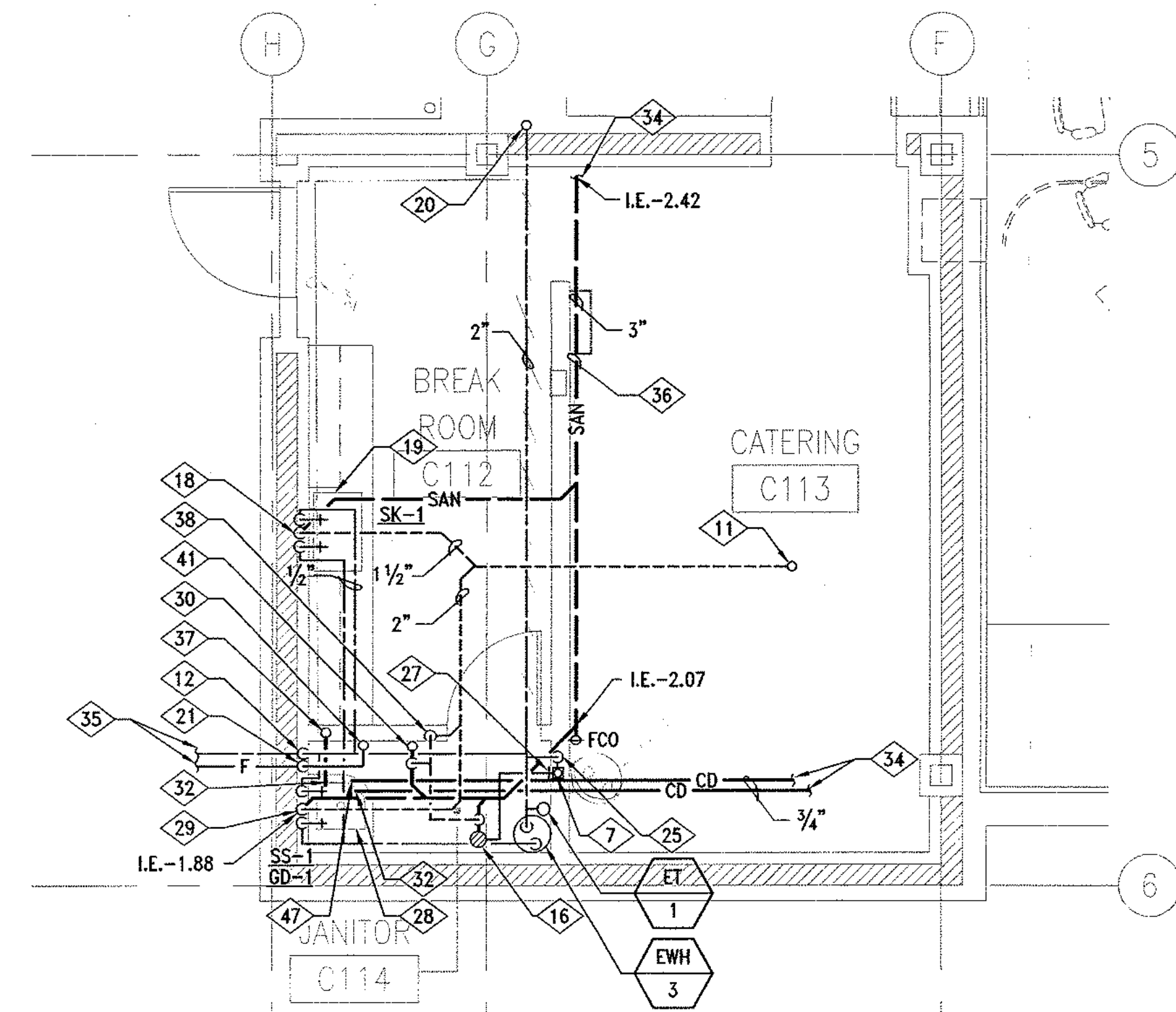
4 FIRST FLOOR PLAN (LIBRARY)
1/4"=1'-0"

NUMBERED NOTES

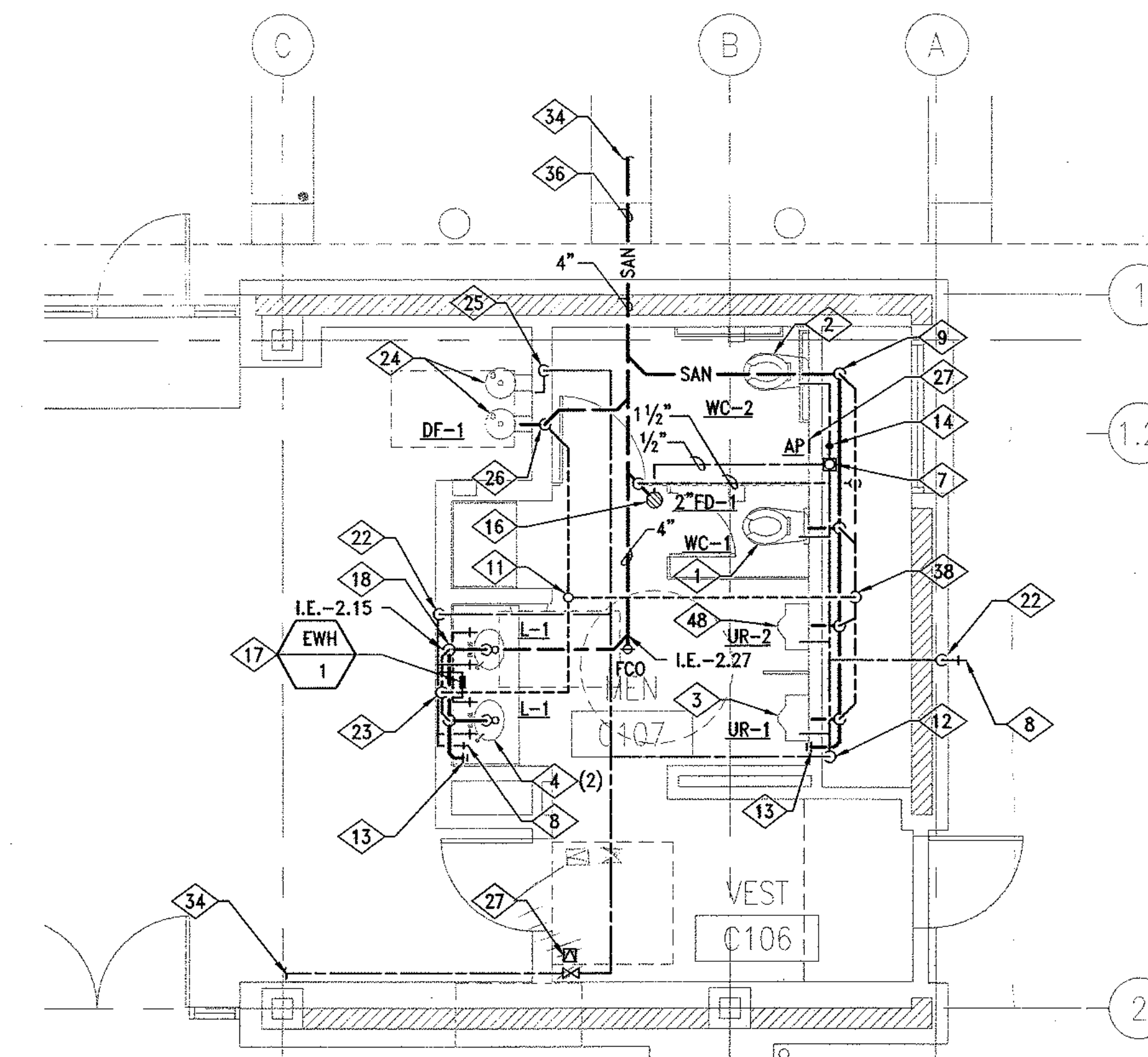
- | | |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1 (WC-1) WATER CLOSET, 4" SAN, 2" V, 1 1/2" CW | 25 1/2" CW DN |
| 2 (WC-2) WATER CLOSET (ADA), 4" SAN, 2" V, 1 1/2" CW | 26 2" SAN DN, 1 1/4" V UP |
| 3 (UR-1) URINAL, 2" SAN, 1 1/2" V, 1" CW | 27 PROVIDE ACCESS PANEL. REFER TO SPEC. SECTION 08310 |
| 4 (L-1) LAVATORY (ADA), 2" SAN, 1 1/2" V, 1/2" CW, 1/2" HW | 28 (SS-1) SERVICE SINK 3" SAN, 2" V, 3/4" CW, 3/4" HW |
| 5 (EWH-2) ELECTRIC WATER HEATER. POINT OF SERVICE
INSTALL UNDER COUNTER | 29 3" SAN DN, 2" V UP |
| 6 (FD-1) FLOOR DRAIN, 3" SAN, 2" V, 1/2" CW
TRAP PRIMER CONNECTION | 30 6" FIRE UP TO SPRINKLER SYSTEM FLOOR
CONTROL VALVE ASSEMBLY |
| 7 TRAP PRIMER VALVE, BEHIND ACCESS PANEL | 31 2" CW DN, BRANCH PIPE WITH SHUT-OFF VALVE.
PROVIDE ACCESS PANEL |
| 8 (HB-1) HOSE BIBB, 3/4" CW | 32 3/4" CD TERMINATE INDIRECTLY TO SS-1 |
| 9 4" SAN DN, 2" V UP | 33 FOR CONTINUATION SEE P2.10 |
| 10 3" VENT DN AND OFFSET AT THE CEILING SPACE | 34 FOR CONTINUATION SEE P2.20 |
| 11 2" VENT UP | 35 FOR CONTINUATION SEE P2.00 |
| 12 2" CW DN | 36 PIPE BELOW SLAB |
| 13 WALL CLEANOUT | 37 3/4" CD UP |
| 14 WATER HAMMER ARRESTOR | 38 2" VENT DN AND OFFSET AT THE CEILING SPACE |
| 15 (L-2) LAVATORY (ADA), 2" SAN, 1 1/2" V, 1/2" CW, 1/2" HW | 39 1 1/2" V DN |
| 16 (FD-1) FLOOR DRAIN, 2" SAN, 1 1/2" V, 1/2" CW
TRAP PRIMER CONNECTION | 40 FOR CONTINUATION SEE P2.11 |
| 17 (EWH-1) ELECTRIC WATER HEATER. POINT OF SERVICE
INSTALL UNDER COUNTER | 41 6" HUB DRAIN (PS.10) |
| 18 2" SAN DN, 1 1/2" V UP | 42 1/2" HW DN |
| 19 (SK-1) SINK (ADA), 2" SAN, 1 1/2" V, 1/2" CW, 1/2" HW | 43 4" SAN DN |
| 20 2" CW UP | 44 3" VENT DN |
| 21 6" DN | 45 4" VENT DN AND OFFSET AT THE CEILING SPACE |
| 22 3/4" CW DN | 46 3/4" CD DN (PS.10) |
| 23 1 1/2" VENT DN AND OFFSET AT THE CEILING SPACE | 47 3/4" CD PUMPED INDIRECTLY TO SS-1 |
| 24 (DF-1) DRINKING FOUNTAIN (ADA), 2" SAN, 1 1/4" V, 1/2" CW | 48 (UR-2) URINAL(ADA), 2" SAN, 1 1/2" V, 1" CW |
| | 49 4" SAN UP & DN |



5 FIRST FLOOR PLAN (COMMUNITY HALL)
1/4"=1'-0"



7 FIRST FLOOR PLAN (COMMUNITY HALL)
1/4"=1'-0"



6 FIRST FLOOR PLAN (COMMUNITY HALL)
1/4"=1'-0"

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architecture
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City of
Cupertino
10500 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
390 Medio Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargroves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Eisesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 887 0700 T
415 537 0800 F

Flack + Kurtz
343 Saratoga Street
Suite 450
San Francisco, CA 94104
415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 485 4085 T
415 485 4660 F

Charles M. Salter
Associates, Inc.
2880 Zanker Road
San Jose, CA 95134
408 432 7270 T
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REVISIONS

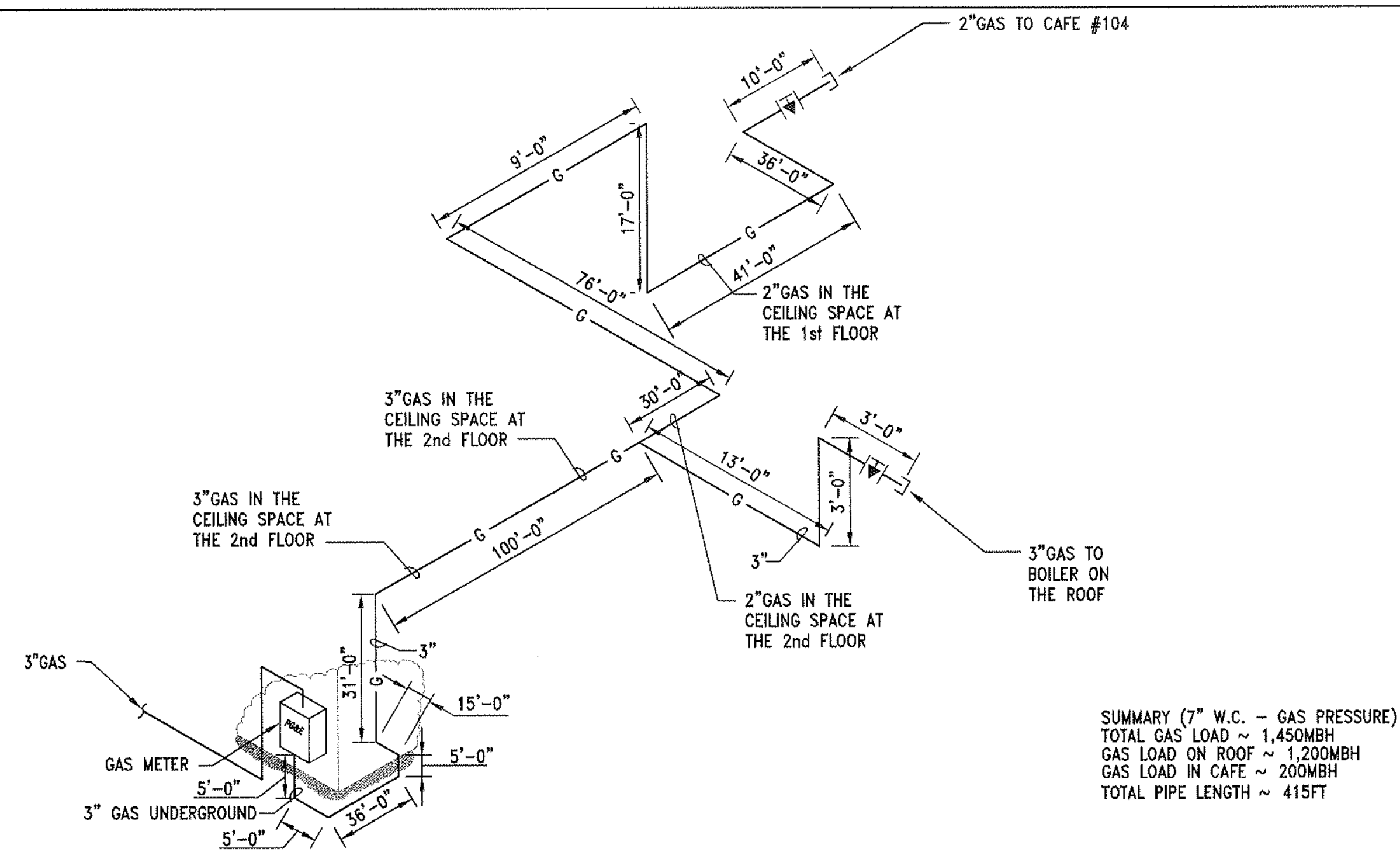
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MECHANICAL
STATE OF CALIFORNIA
No. 27537
Exp. 6-30-08

BID SET

Sheet title

PLUMBING
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PLANS

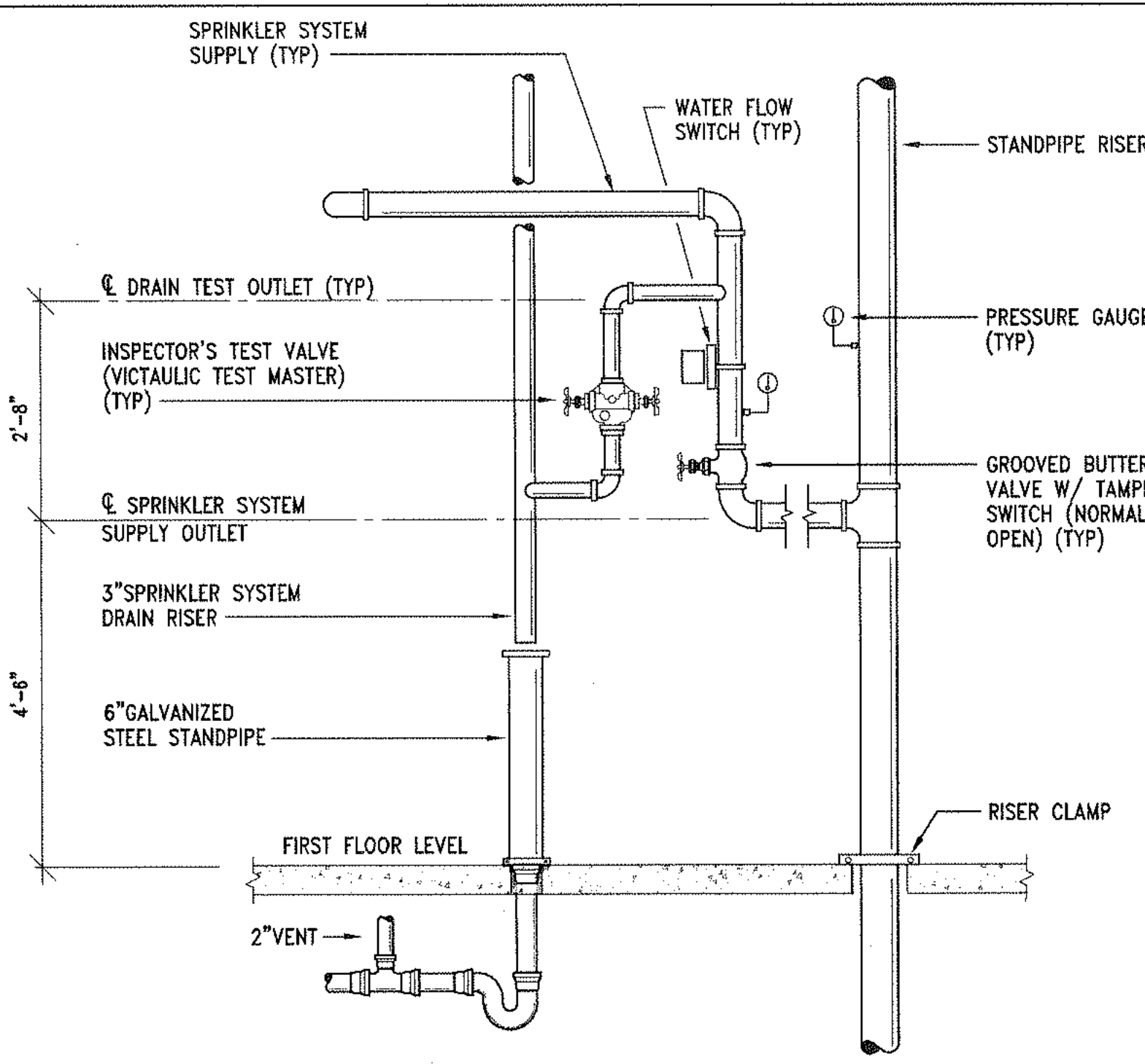
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Drawn by: SYA Project number: 01.03770.00
Sheet number: P5.10



SUMMARY (7" W.C. - GAS PRESSURE)
 TOTAL GAS LOAD ~ 1,450MBH
 GAS LOAD ON ROOF ~ 1,200MBH
 GAS LOAD IN CAFE ~ 200MBH
 TOTAL PIPE LENGTH ~ 415FT

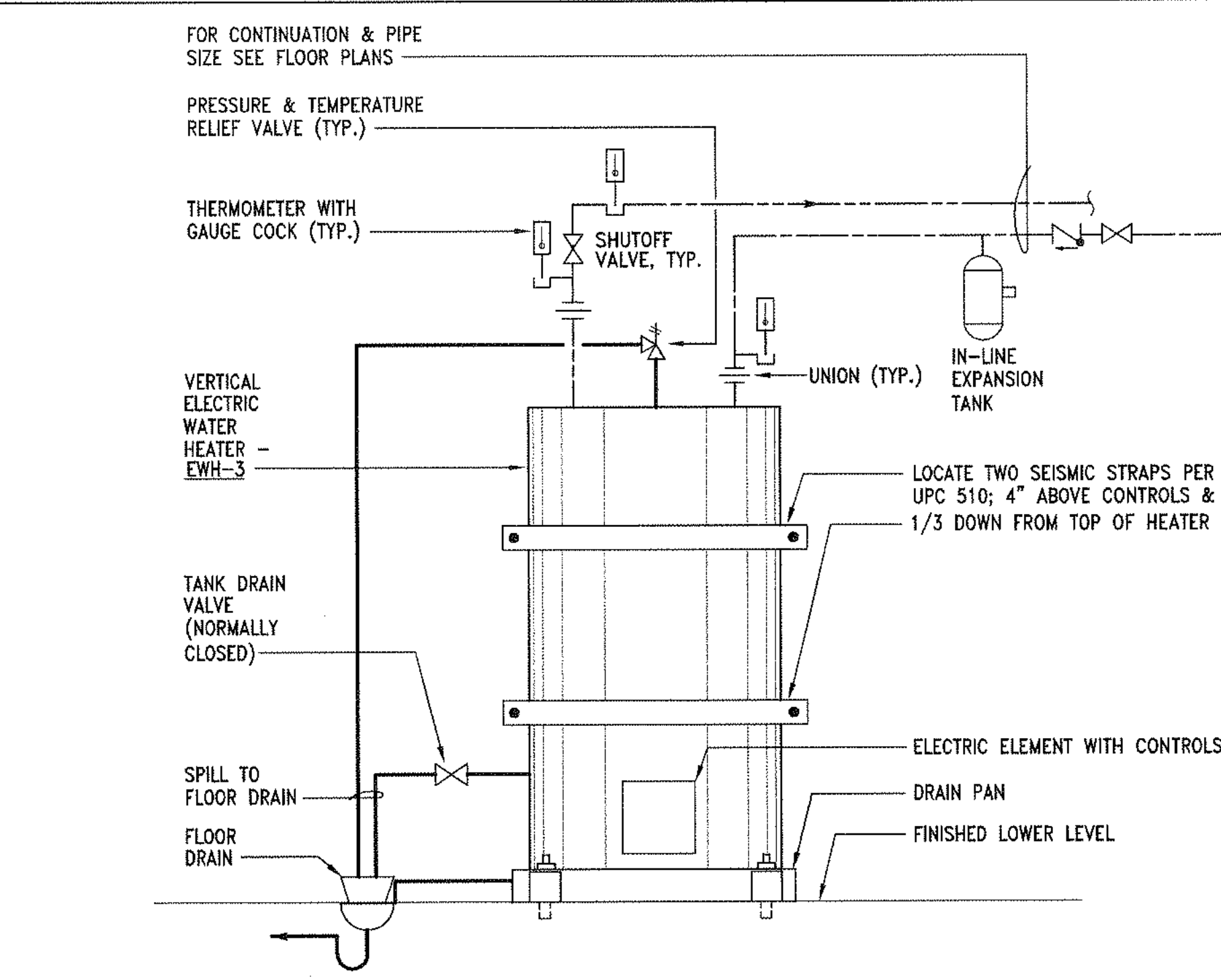
11 GAS RISER ISOMETRIC DIAGRAM

NO SCALE



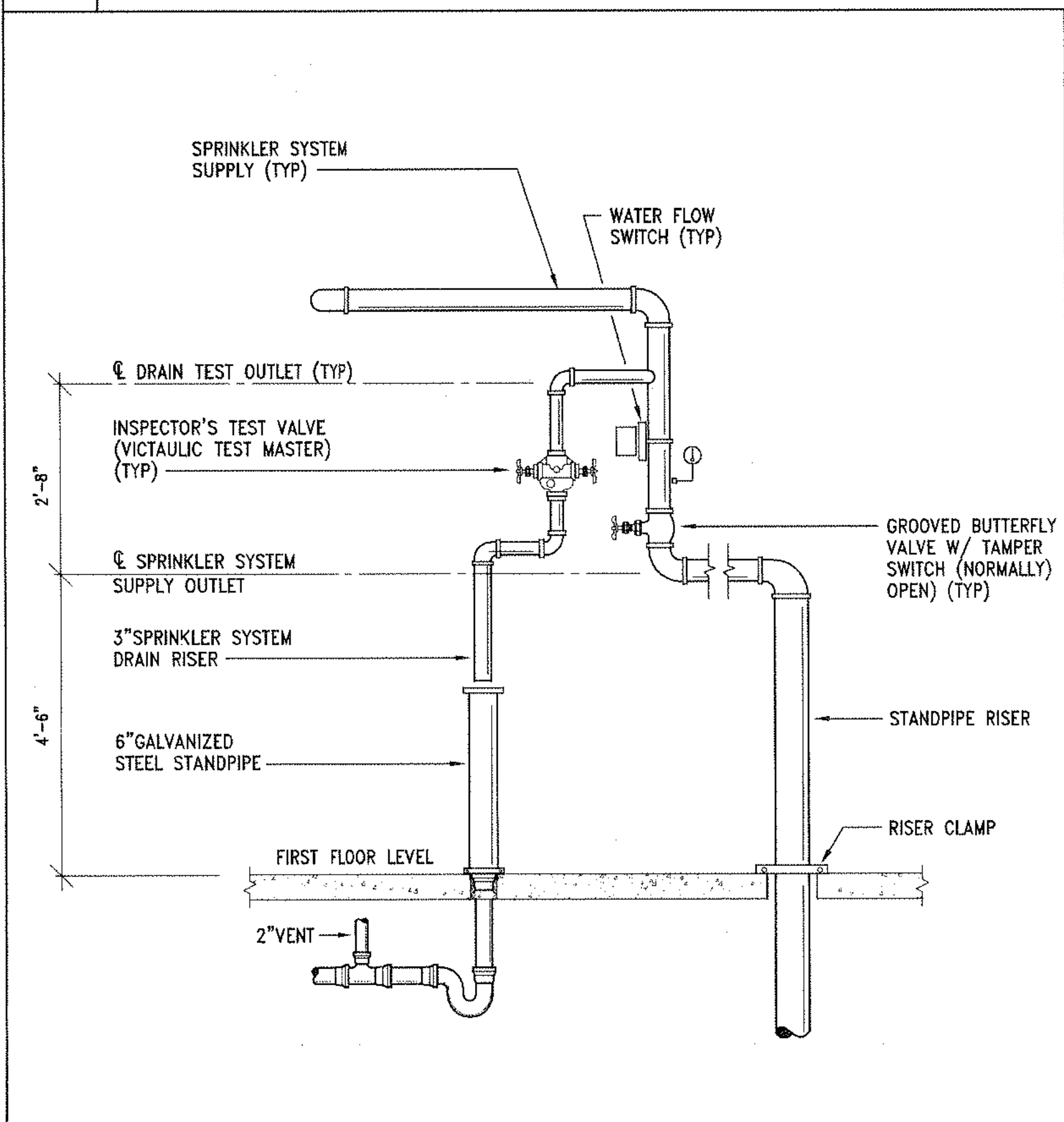
3 SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY WITH DRAIN FROM BELOW SPILL TO HUB DRAIN

NO SCALE



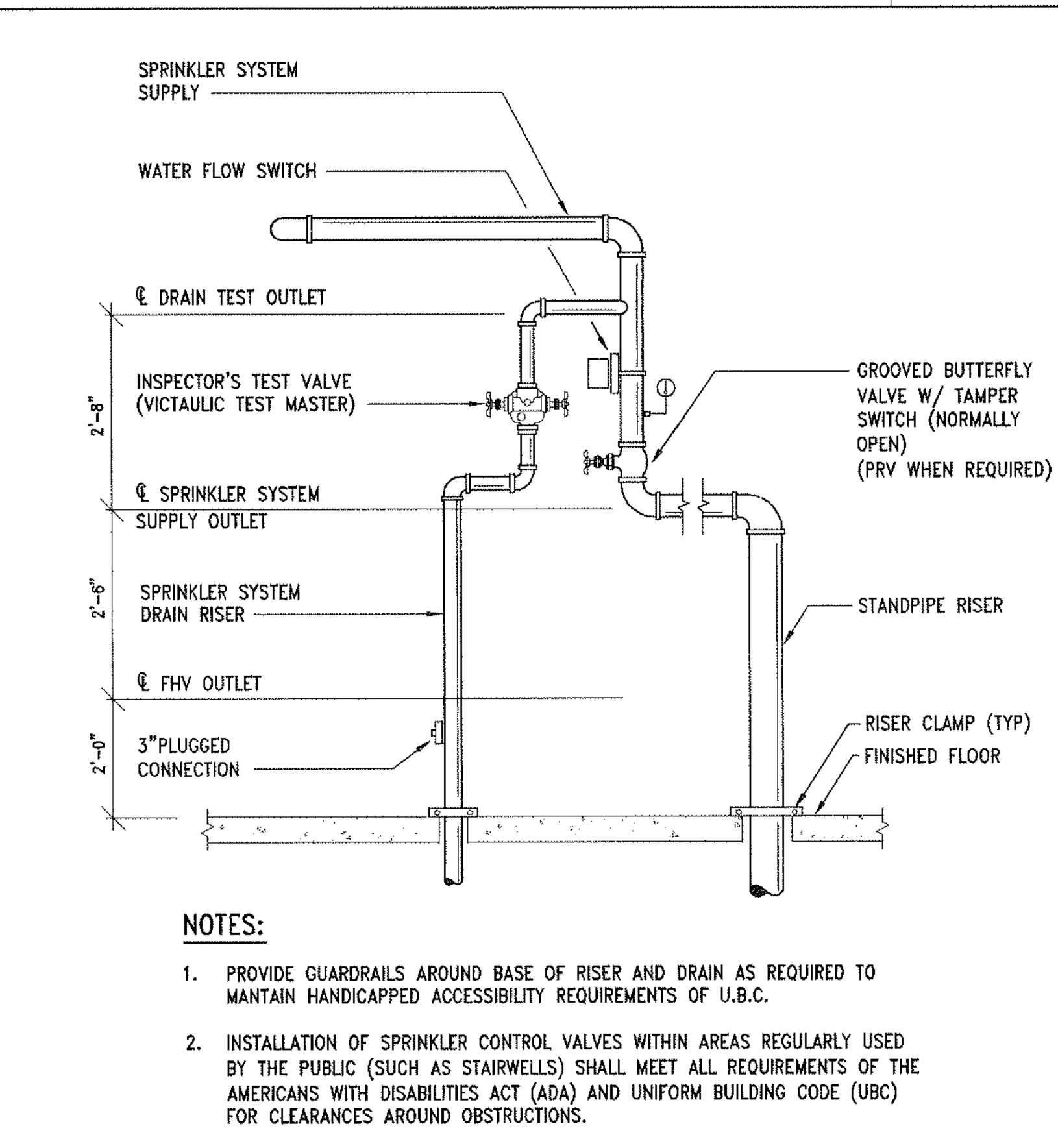
1 ELECTRIC WATER HEATER

NO SCALE



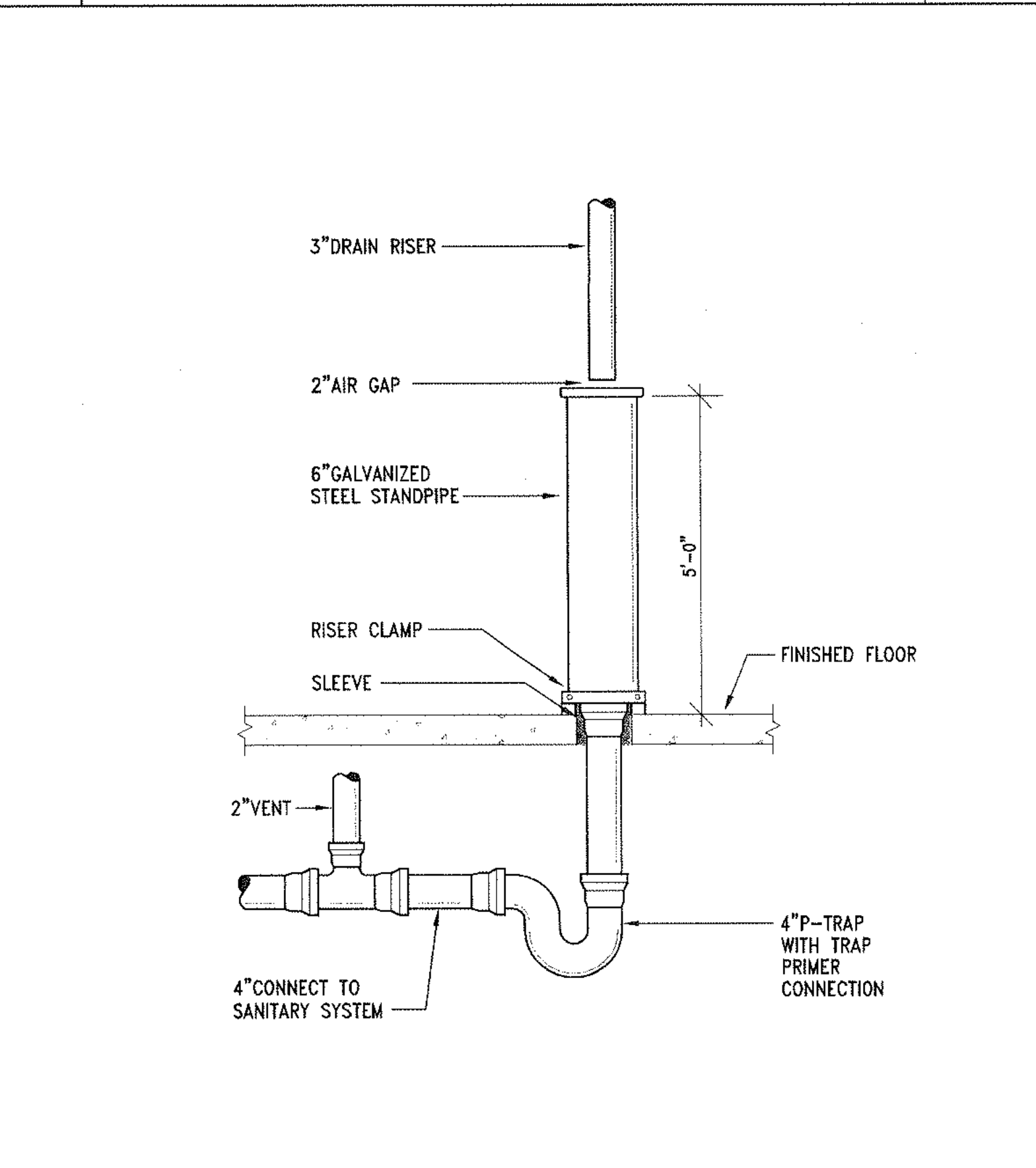
6 SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY WITH DRAIN FROM BELOW SPILL TO HUB DRAIN

NO SCALE



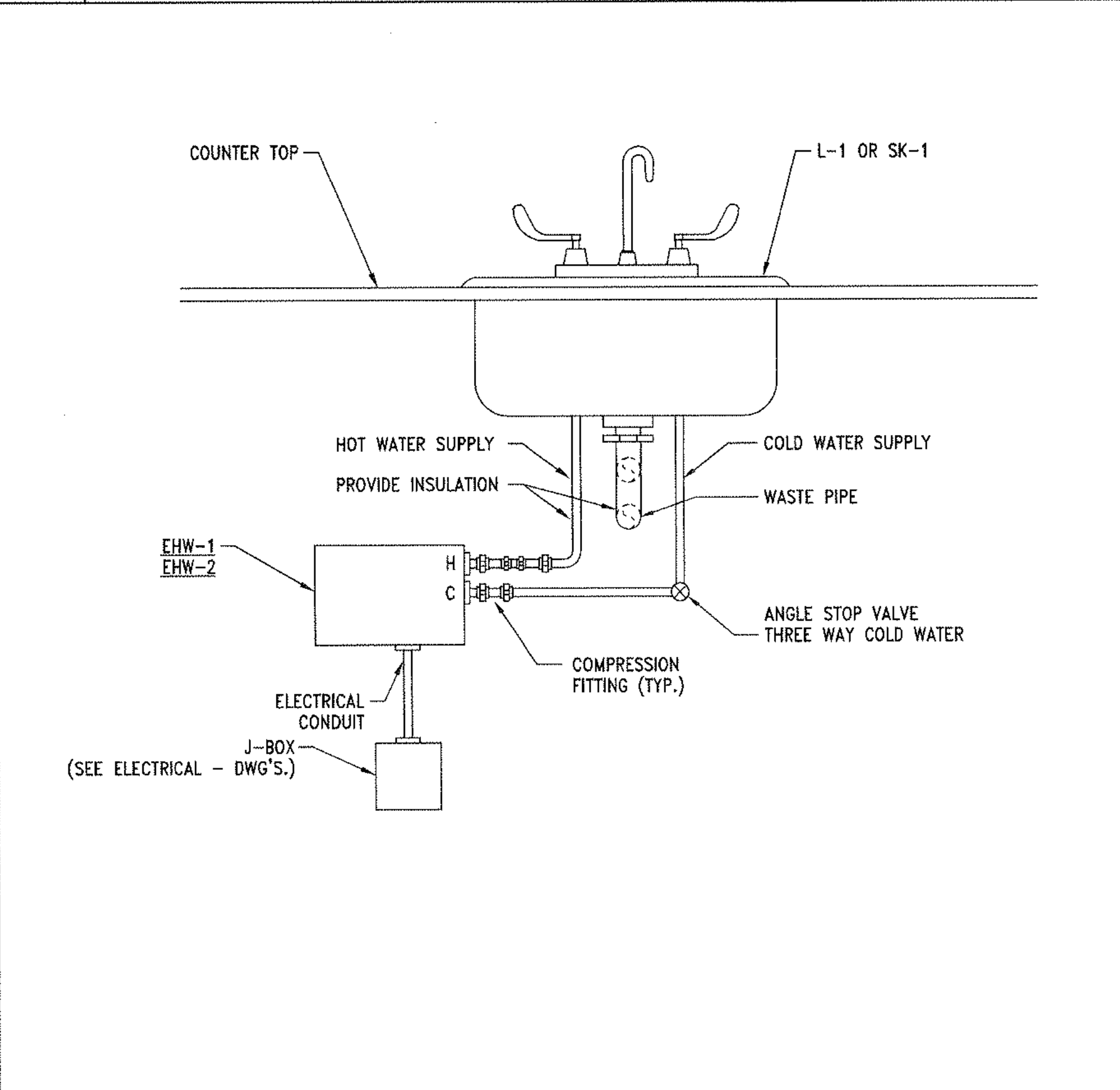
5 SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY

NO SCALE



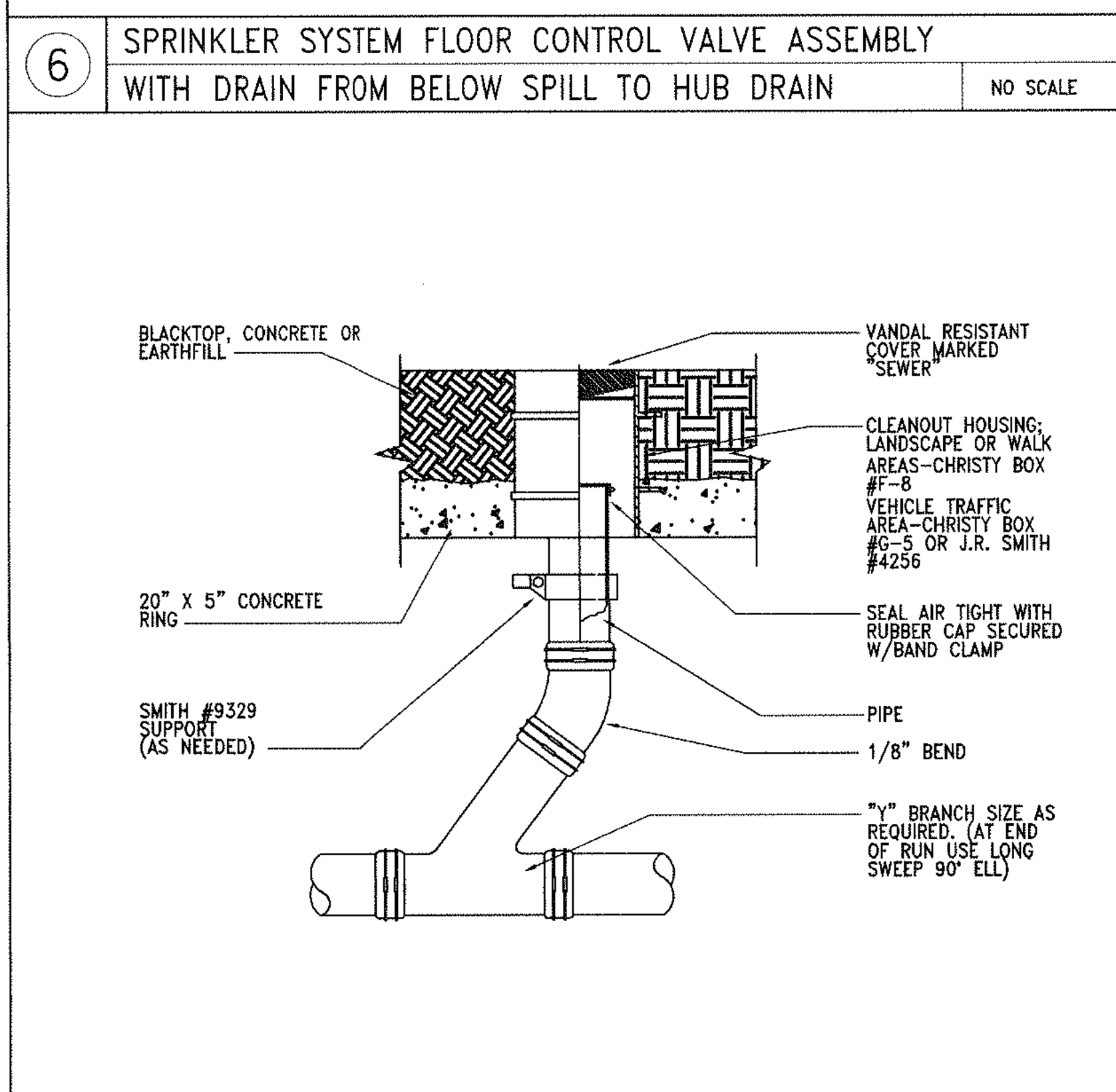
4 SPRINKLER HUB DRAIN

NO SCALE



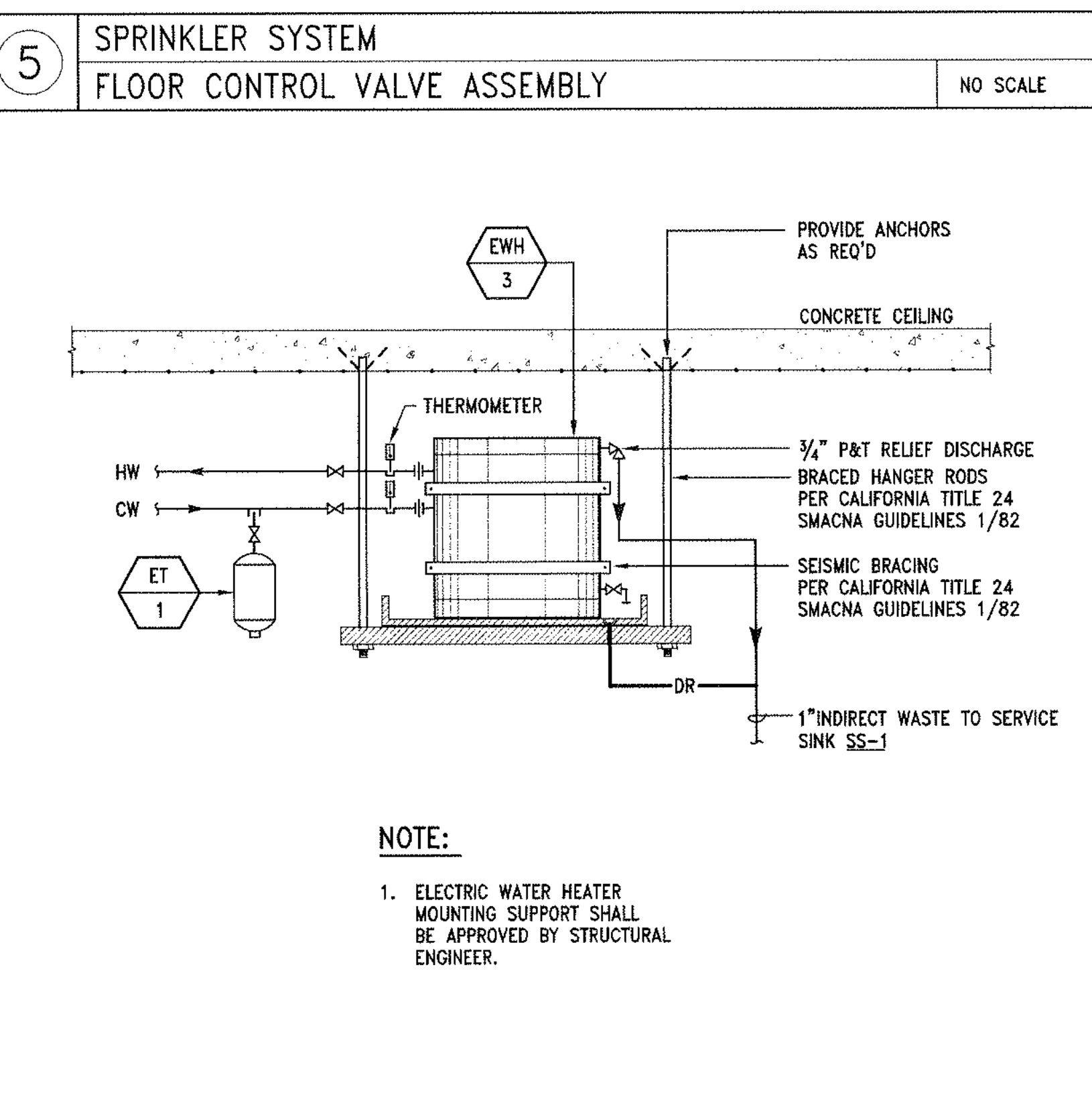
2 POINT-OF-USE ELECTRIC WATER HEATER (EWH-1 & EWH-2)

NO SCALE



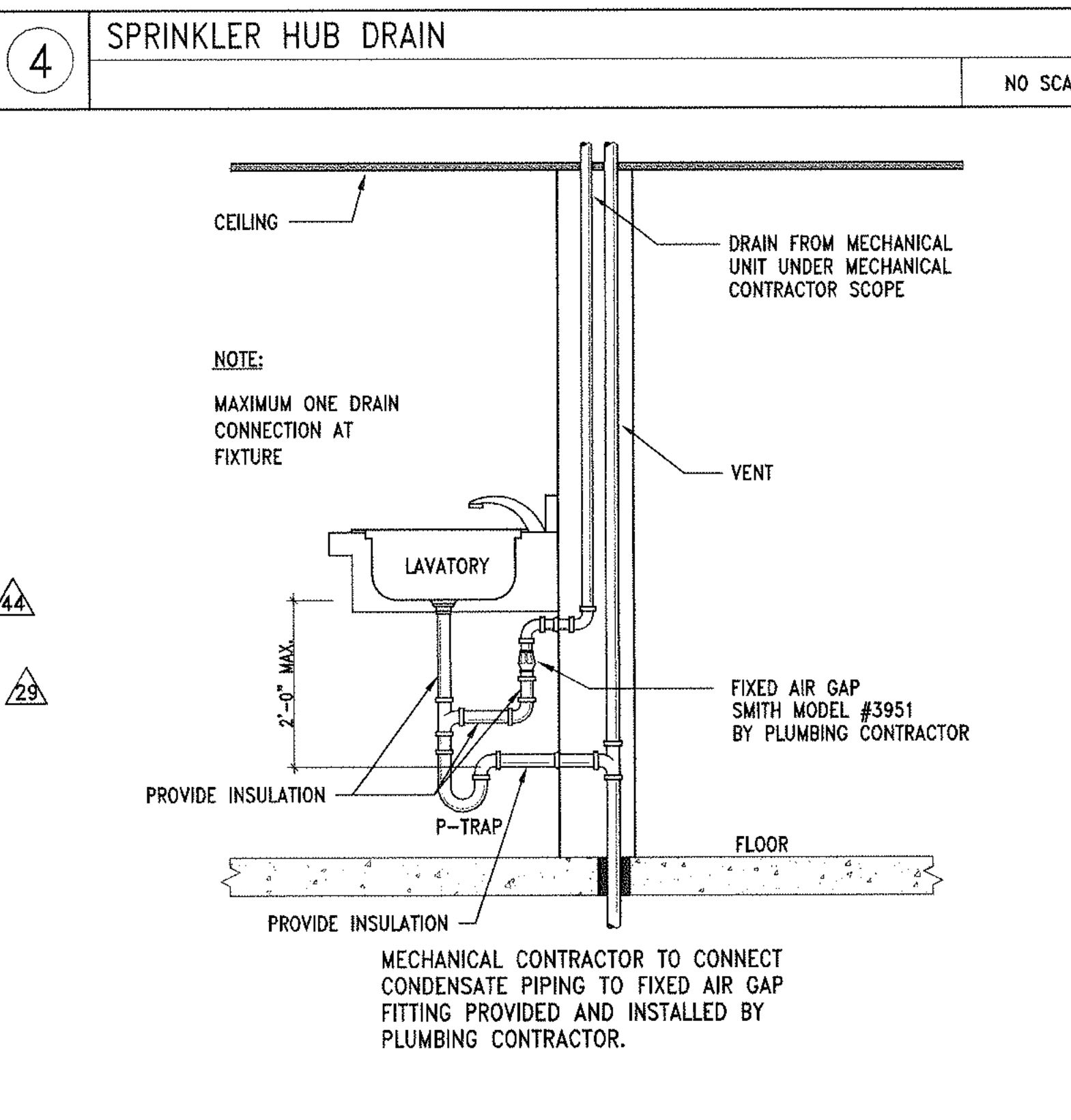
10 GRADE CLEANOUT

NO SCALE



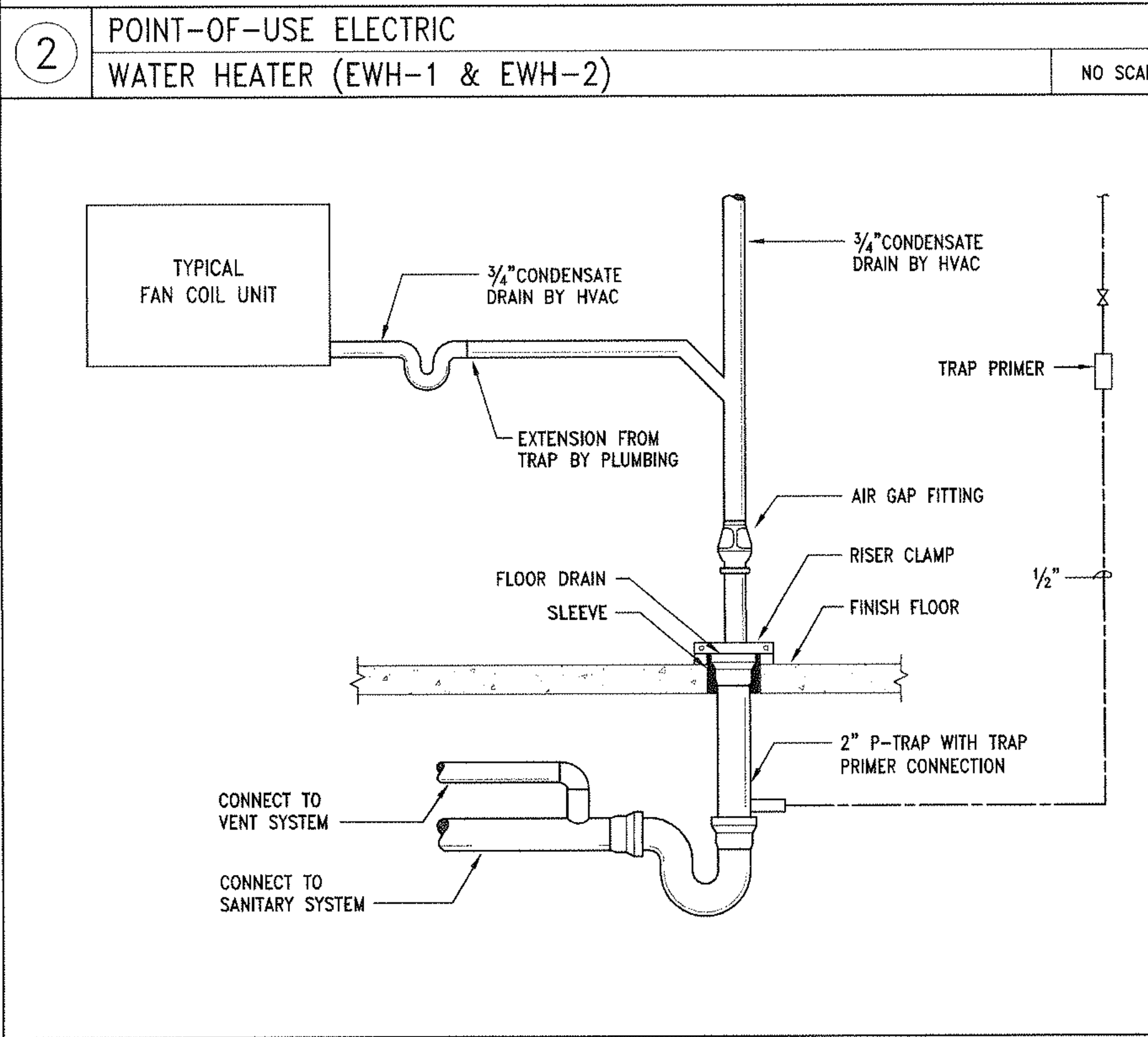
9 ELECTRIC WATER HEATER HUNG TO CEILING

NO SCALE



8 INDIRECT CONDENSATE DRAIN

NO SCALE



7 INDIRECT CONDENSATE DRAIN

NO SCALE

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SWMM
 architecture
 interiors
 planning
 graphic design

City of
 Cupertino
 10400 Torre Avenue
 Cupertino, CA 95014
 408.777.3354 T
 408.777.3333 F

Sandis Humber Jones
 550 Merino Drive, Suite 1
 Redlands, CA 92375
 916.435.2400 T
 916.435.2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415.865.1811 T
 415.865.1810 F

Fore/Elsesser
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415.837.0700 T
 415.837.0800 F

Fleck + Kurtz
 4625 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415.388.3833 T
 415.433.5311 F

Architectural
 Lighting Design
 370 Brennan Street
 San Francisco, CA 94107
 415.495.4085 T
 415.495.4660 F

2004.00.00	CCD No.27R
2004.03.05	CCD No.42

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 Contract Documents

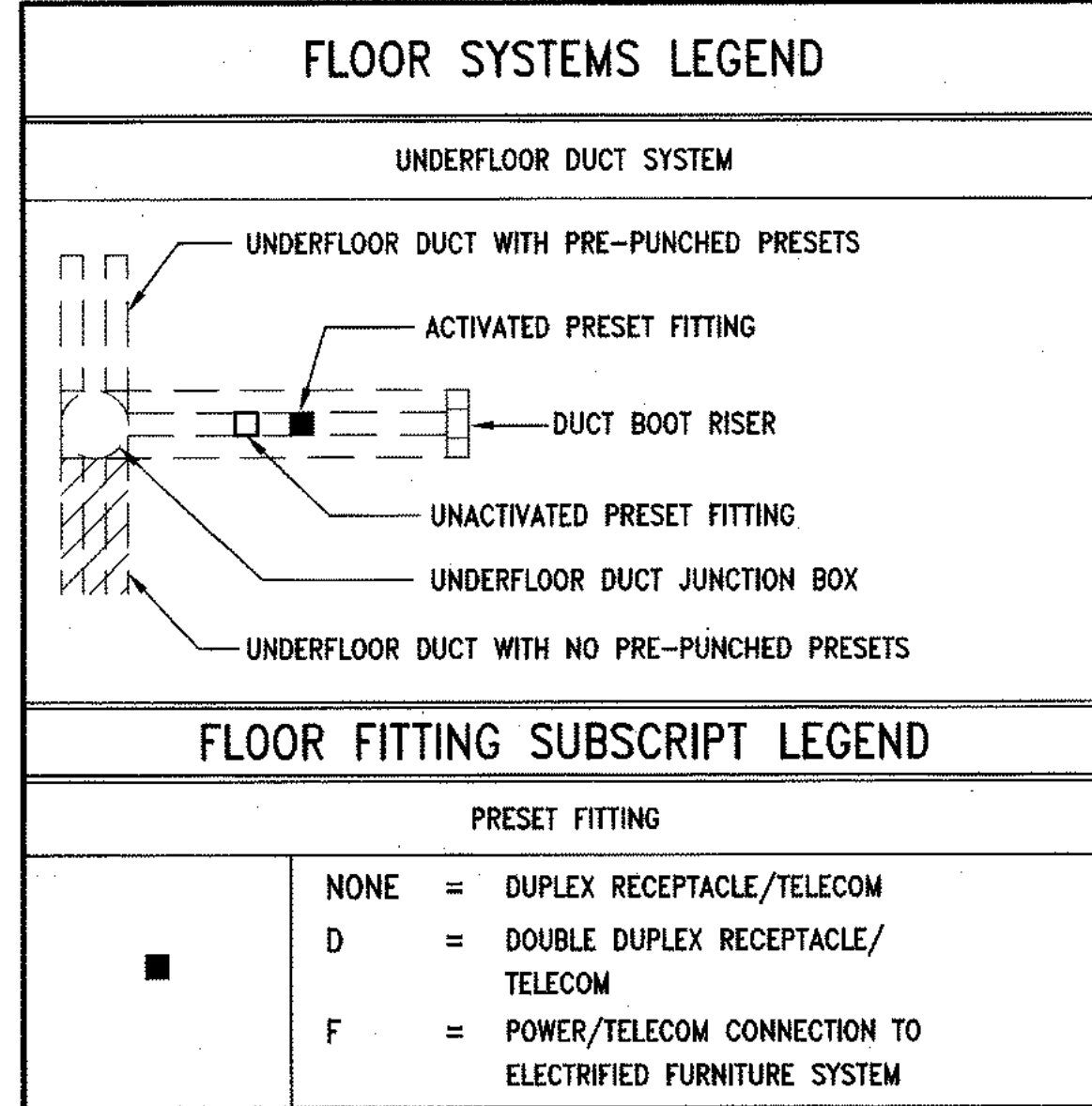
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 DETAILS

scale: NONE date: 2003.04.18
 drawn by: SYA project number: 01.03770.00
 sheet number: P5.10

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FLOOR BOX LEGEND	
POKE THROUGH PEDESTAL	
①	SINGLE RECEPTACLE OUTLET: 125V, 15A
②	DUPLEX RECEPTACLE OUTLET: 125V, 15A
③	DUPLEX RECEPTACLE OUTLET: 125V, 20A
④	DOUBLE DUPLEX RECEPTACLE OUTLET: 125V, 15A
⑤	SPECIAL PURPOSE RECEPTACLE OUTLET: RATING AS INDICATED
⑥	COMBINATION DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
⑦	COMBINATION DOUBLE DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
⑧	TELECOM OUTLET
⑨	POWER CONNECTION TO ELECTRIFIED FURNITURE SYSTEM
⑩	TELECOM CONNECTION TO ELECTRIFIED FURNITURE SYSTEM
POKE THROUGH FLUSH	
⑪	COMBINATION DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
⑫	COMBINATION DOUBLE DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
RECESSED FLUSH	
⑬	SINGLE RECEPTACLE OUTLET: 125V, 15A
⑭	DUPLEX RECEPTACLE OUTLET: 125V, 15A
⑮	DUPLEX RECEPTACLE OUTLET: 125V, 20A
⑯	DOUBLE DUPLEX RECEPTACLE OUTLET: 125V, 15A
⑰	COMBINATION DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
⑱	COMBINATION DOUBLE DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
⑲	TELECOM OUTLET
⑳	RAISED FLOOR ACCESS BOX, COMBINATION DOUBLE DUPLEX RECEPTACLE/TELECOM: 125V, 15A



GENERAL NOTES

- A. ALL ALUMINUM CONDUCTORS OF #6 OR LARGER SHALL BE SPLICED OR TERMINATED IN AN APPROVED HIGH PRESSURE DEVICE.
- B. ALL UL LISTED EQUIPMENT SHALL BE INSTALLED AS PER THE LISTING OR LABELING.
- C. GROUND CONNECTIONS TO BE MADE ON THE LINE SIDE OF THE NEUTRAL DISCONNECT LINK.
- D. ALL EQUIPMENT SHALL BE LISTED BY AN ACCEPTED AGENCY AND BEAR ITS LISTING LABEL.

WIRING DEVICE LEGEND	
⊕	SINGLE RECEPTACLE OUTLET: 125V, 15A
⊕	DUPLEX RECEPTACLE OUTLET: 125V, 15A
⊕	DUPLEX RECEPTACLE OUTLET: 125V, 15A, TOP HALF SWITCHED
⊕	DUPLEX RECEPTACLE OUTLET: 125V, 20A
⊕	DOUBLE DUPLEX RECEPTACLE OUTLET: 125V, 15A
⊕	TRIPLE DUPLEX RECEPTACLE OUTLET: 125V, 15A
⊕	SPECIAL PURPOSE RECEPTACLE OUTLET: RATING AS INDICATED
⊕	CLOCK RECEPTACLE OUTLET: 125V, 15A
⊕	POWER CONNECTION TO ELECTRIFIED FURNITURE SYSTEM
⊕	PUSHBUTTON
⊕	BUZZER
⊕	BELL
⊕	POWER TYPE PLUG STRIP, LENGTH APPROXIMATELY AS SHOWN
⊕	POWER/TELECOM TYPE PLUG STRIP, LENGTH APPROXIMATELY AS SHOWN
⊕	TELECOM OUTLET
⊕	TELECOM CONNECTION TO ELECTRIFIED FURNITURE SYSTEM
⊕	TELEVISION OUTLET
⊕	SINGLE POLE SWITCH
⊕	DOUBLE POLE SWITCH
⊕	THREE WAY SWITCH
⊕	FOUR WAY SWITCH
⊕	TRANSFER FAN SWITCH
⊕	ILLUMINATED HANDLE SWITCH
⊕	KEY SWITCH
⊕	MOMENTARY CONTACT SWITCH
⊕	PILOT LIGHT SWITCH
⊕	SPRING WOUND TIMER SWITCH
⊕	WALL DIMMER
⊕	LOW VOLTAGE SWITCH
⊕	PHOTOCELL
⊕	LINE VOLTAGE SHUT OFF SWITCH
⊕	MOTOR LOGIC CONTROLLER (FBO)
⊕	OCCUPANCY SENSOR, WALL MOUNTED
⊕	2 WAY OCCUPANCY SENSOR, CEILING MOUNTED
⊕	1 WAY OCCUPANCY SENSOR, CEILING MOUNTED
⊕	CORRIDOR OCCUPANCY SENSOR, CEILING MOUNTED

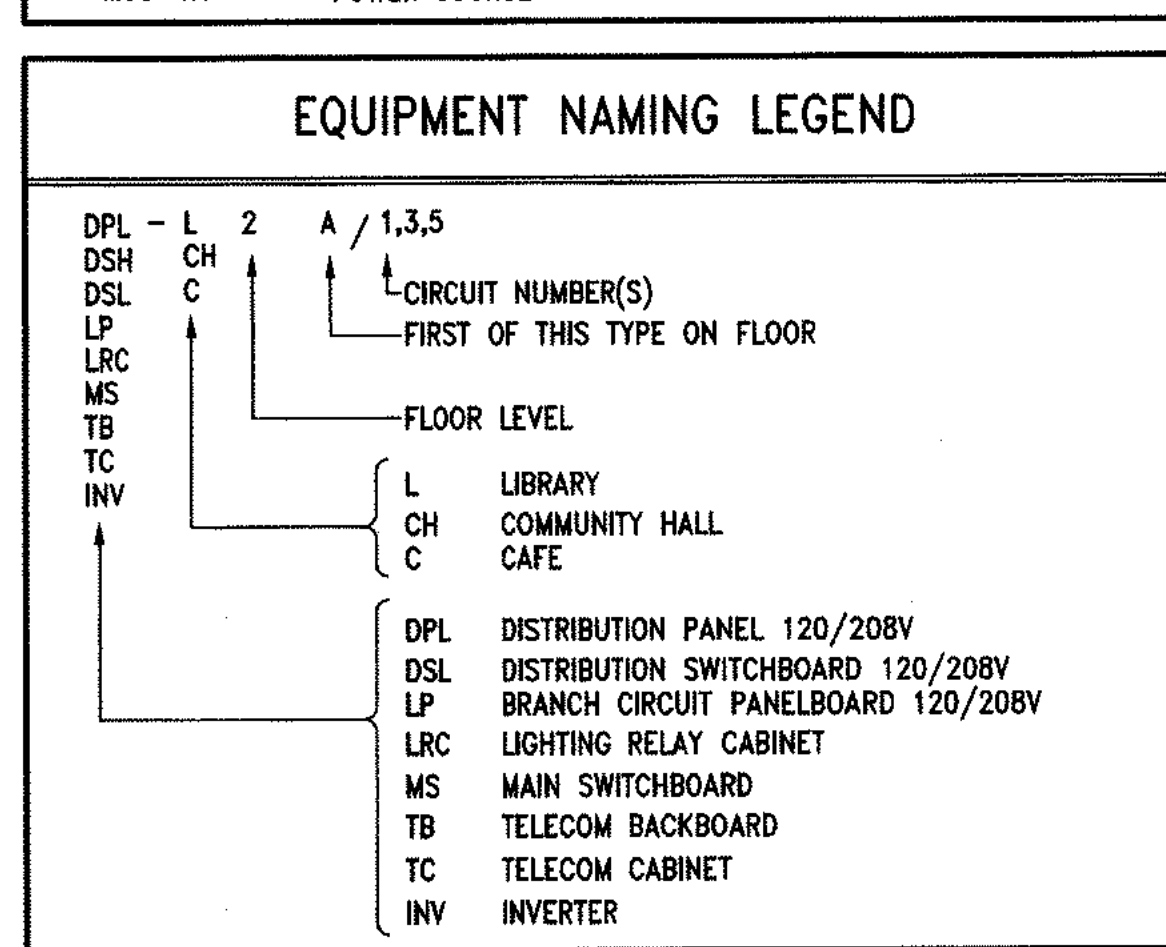
WIRING DEVICE SUBSCRIPT LEGEND	
⊕	AV = AUDIO VISUAL
⊕	CP = CHILD PROOF TAMPERING DEVICE
⊕	GFI = GROUND FAULT INTERRUPTER
⊕	IG = ISOLATED GROUND
⊕	IGS = ISOLATED GROUND SURGE SUPPRESSOR
⊕	WP = WEATHERPROOF
⊕	o = LOWER CASE LETTER INDICATES SWITCH CONTROL
⊕	6 = NUMBER INDICATES CIRCUIT NUMBER
⊕	IG = ISOLATED GROUND (ONE OF DOUBLE DUPLEX)
⊕	IGS = ISOLATED GROUND SURGE SUPPRESSOR (ONE OF DOUBLE DUPLEX)
⊕	o = LOWER CASE LETTER INDICATES SWITCH CONTROL

RACEWAY LEGEND	
—	CONDUIT CONCEALED ABOVE CEILING OR WITHIN WALL
—	CONDUIT BELOW GRADE OR EMBEDDED WITHIN SLAB
—	CONDUIT UP
—	CONDUIT DOWN
—	CONDUIT STUBBED OUT WITH BUSHING
—	CONDUIT STUBBED OUT AND CAPPED
—	—AV— AUDIO/VISUAL SYSTEM RACEWAY
—	—CT— CABLE TRAY
—	—G— GROUNDING SYSTEM RACEWAY
—	—FA— FIRE ALARM SYSTEM RACEWAY
—	—S— SECURITY SYSTEM RACEWAY
—	—T— TELECOM SYSTEM RACEWAY
—	—TV— TELEVISION SYSTEM RACEWAY
—	— CONDUIT HOMERUN
—	— PHASE CONDUCTOR(S)
—	— GROUNDING CONDUCTOR
—	— ISOLATED GROUNDING CONDUCTOR
—	— NEUTRAL CONDUCTOR

FIRE ALARM LEGEND	
⊕	MANUAL PULL STATION
⊕	AREA SMOKE DETECTOR, CEILING MOUNTED
⊕	AREA SMOKE DETECTOR, WALL MOUNTED
⊕	DUCT TYPE SMOKE DETECTOR
⊕	HEAT DETECTOR, CEILING MOUNTED
⊕	BEAM DETECTOR: R = RECEIVER, T = TRANSMITTER
⊕	SPRINKLER WATER FLOW SWITCH
⊕	SPRINKLER TAMPER SWITCH
⊕	FIRE ALARM SPEAKER; CEILING MOUNTED
⊕	FIRE ALARM SPEAKER; WALL MOUNTED
⊕	VISUAL ALARM; WALL MOUNTED
⊕	COMBINATION FIRE ALARM SPEAKER/VISUAL ALARM; WALL MOUNTED
⊕	FIRE ALARM HORN; CEILING MOUNTED
⊕	FIRE ALARM HORN; WALL MOUNTED
⊕	COMBINATION FIRE ALARM HORN/VISUAL ALARM; WALL MOUNTED
⊕	FIREFIGHTER'S PHONE JACK
⊕	EMERGENCY TELEPHONE
⊕	MAGNETIC DOOR HOLDER
⊕	FIRE ALARM BELL
⊕	FIRE/SMOKE DAMPER
⊕	SMOKE DAMPER
⊕	FIRE ALARM AND CONTROL PANEL
⊕	FIRE ALARM REMOTE PANEL
⊕	FIRE ALARM TERMINAL CABINET
⊕	FIRE ALARM REMOTE ANNUNCIATOR
⊕	FIREFIGHTER'S TELEPHONE SYSTEM
⊕	VOICE COMMUNICATION SYSTEM
⊕	FIREFIGHTER'S CONTROL AND INDICATING PANEL
⊕	FIRE PUMP REMOTE STATUS PANEL
⊕	GENERATOR REMOTE STATUS PANEL

LIGHTING LEGEND	
⊕	LIGHTING FIXTURE, CEILING OR SURFACE MOUNTED
⊕	LIGHTING FIXTURE, WALL MOUNTED
⊕	LIGHTING FIXTURE, SIZE APPROXIMATELY AS SHOWN, CEILING MOUNTED
⊕	LIGHTING FIXTURE, SIZE APPROXIMATELY AS SHOWN, WALL MOUNTED
⊕	LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER SYSTEM
⊕	LIGHTING FIXTURE, CONTINUOUS ROW, CEILING MOUNTED
⊕	WALL WASHER, CEILING MOUNTED
⊕	LIGHTING FIXTURE(S), POLE MOUNTED
⊕	SITE PEDESTRIAN FIXTURE
⊕	LIGHTING FIXTURE SUBSCRIPTIONS: NUMBER INDICATES CIRCUIT, LETTER INDICATES SWITCH CONTROL
⊕	LIGHTING TRACK WITH FIXTURES, LENGTH APPROXIMATELY AS SHOWN
⊕	LIGHTING FIXTURE TYPE DESIGNATED BY LETTER INSIDE HEXAGON
EXIT SIGNS	
⊕	EXIT SIGN, WALL MOUNTED
⊕	EXIT SIGN, CEILING MOUNTED
⊕	EXIT SIGN, RECESSED IN WALL
⊕	EXIT SIGN, PENDENT MOUNTED
⊕	EXIT SIGN, LOW LEVEL, RECESSED IN WALL

POWER LEGEND	
⊕	ATS, CPC, DPH, DPL, DSH, DSL, MCC OR MS: SIZE APPROXIMATELY AS SHOWN. DOUBLE LINE INDICATES FRONT.
⊕	SURFACE MOUNTED LPH, LRC, MP OR TC: SIZE APPROXIMATELY AS SHOWN
⊕	RECESSED MOUNTED LPH, LRC, MP OR TC: SIZE APPROXIMATELY AS SHOWN
⊕	SURFACE MOUNTED LP: SIZE APPROXIMATELY AS SHOWN
⊕	RECESSED MOUNTED LP: SIZE APPROXIMATELY AS SHOWN
⊕	TB: LENGTH APPROXIMATELY AS SHOWN
⊕	BUSWAY RISER WITH PLUG IN UNIT
⊕	BUSWAY HORIZONTAL
⊕	CABLE TAP BOX
⊕	STEP DOWN TRANSFORMER
⊕	GENERATOR
⊕	AUTOMATIC TRANSFER SWITCH
⊕	HEAVY DUTY DISCONNECT SWITCH
⊕	HEAVY DUTY DISCONNECT SWITCH WITH FUSE
⊕	MOTOR STARTER
⊕	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
⊕	MOTORIZED DOOR CONTROLLER (FBO)
⊕	MOTORIZED SHADE CONTROLLER (FBO)
⊕	POWER OFF SWITCH
⊕	PROJECTION SCREEN CONTROLLER (FBO)
⊕	SPEED CONTROLLER (FBO)
⊕	THERMAL OVERLOAD/DISCONNECT SWITCH
⊕	MOTOR CONNECTION
⊕	JUNCTION BOX, CEILING MOUNTED
⊕	JUNCTION BOX, WALL MOUNTED
⊕	PULL BOX
⊕	SPLICE BOX
⊕	GROUND BUS CABINET
⊕	GROUND ROD
⊕	CIRCUIT BREAKER
⊕	SWITCH AND FUSE
⊕	CIRCUIT BREAKER IN ENCLOSURE
⊕	CURRENT TRANSFORMER COMPARTMENT AND KWH METER
⊕	GROUND FAULT SENSOR
⊕	GROUND FAULT RELAY
⊕	NORMALLY OPEN CONTACT
⊕	NORMALLY CLOSED CONTACT
⊕	RELAY OR CONTACTOR: CONTACTS SHOWN WITH COIL DEENERGIZED
⊕	TRANSFORMER
⊕	ROTARY SWITCH
⊕	PILOT LIGHT: A = AMBER LIGHT, G = GREEN LIGHT R = RED LIGHT, Y = YELLOW LIGHT
SF-1	EQUIPMENT DESIGNATION
MCC-1A	POWER SOURCE



DRAWING LIST	
E0.01	LEGEND AND ABBREVIATIONS
E0.02	LIBRARY TITLE 24 COMPLIANCE
E0.03	COMMUNITY HALL TITLE 24 COMPLIANCE
E0.04	LUMINAIRE AND LIGHTING SCHEDULES
E0.05	EQUIPMENT CONNECTIONS & PANELBOARD SCHEDULES
E0.06	PANELBOARD SCHEDULES
E1.10	ELECTRICAL SITE PLAN
E2.10	LIBRARY FIRST FLOOR POWER PLAN
E2.10A	LIBRARY FIRST FLOOR UNDERFLOOR DUCT SYSTEM
E2.11	LIBRARY SECOND FLOOR POWER PLAN
E2.12	LIBRARY ROOF ELECTRICAL PLAN
E2.20	COMMUNITY HALL POWER PLAN
E2.21	COMMUNITY HALL ROOF ELECTRICAL PLAN
E3.10	LIBRARY FIRST FLOOR LIGHTING PLAN
E3.11	LIBRARY SECOND FLOOR LIGHTING PLAN
E3.20	COMMUNITY HALL LIGHTING PLAN
E4.11	ELECTRICAL RISER DIAGRAM
E4.12	ELECTRICAL DETAILS
E4.13	ELECTRICAL DETAILS
E4.1.00	ELECTRICAL FOR AV: COVER SHEET
E4.1.01	ELECTRICAL FOR AV: COMMUNITY HALL ROOM 101
E4.1.02	ELECTRICAL FOR AV: COMMUNITY HALL PLANS
E4.1.03	ELEC. FOR AV: CONDUIT FOR ROOMS 108, 111, 115, 116
E4.1.04	ELECTRICAL FOR AV: BUILDING EXTERIOR AND SITE
E4.1.05	ELECTRICAL FOR AV: CITY HALL AV ROOM

ABBREVIATIONS	
⊕	CENTERLINE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AF/AS	AMPERE RATING OF FUSE/SWITCH
AT/AF	AMPERE RATING OF CIRCUIT BREAKER TRIP/FRAME
A/V	AUDIO/VISUAL
BMS	BUILDING MANAGEMENT SYSTEM
⊕	CIRCUIT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
ECC	ENGINEER'S CONTROL CENTER
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
FBO	FURNISHED BY OTHERS
FCC	FIRE CONTROL CENTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
IG	ISOLATED GROUND
MCP	MOTOR CIRCUIT PROTECTOR
MIC	MINERAL INSULATED CABLE
MS	MAIN SWITCHBOARD
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	EXISTING TO BE RELOCATED
RAC	RIGID ALUMINUM CONDUIT
RSC	RIGID STEEL CONDUIT
SCC	SECURITY CONTROL CENTER
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
TEL	TELECOM
TYP	TYPICAL
UNON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
WT	WATERTIGHT
(X)	EXISTING TO BE REMOVED
XP	EXPLOSION PROOF

SECURITY LEGEND	
⊕	ELECTRIC STRIKE
⊕	ELECTRIC LOCK
⊕	ELECTRIC DEAD BOLT
⊕	ELECTROMAGNETIC LOCK
⊕	MAGNETIC DOOR SWITCH
⊕	HOLDUP ALARM STATION
⊕	DURESS ALARM STATION
⊕	MOTION DETECTOR, CEILING MOUNTED
⊕	MOTION DETECTOR, WALL MOUNTED
⊕	CCTV CAMERA
⊕	CCTV: NUMBER REFERS TO CCTV CAMERA SCHEDULE
⊕	CARD READER
⊕	EXIT BUTTON
⊕	VIBRATION ALARM
⊕	DOOR ALARM HORN
⊕	INTERCOM SUBSTATION
⊕	INTERCOM MASTER STATION

11-29-04 Updated Contract Documents

BID SET

LEGEND AND ABBREVIATIONS

scale NONE date 2003.04.18 drawn by LL project number 01.03720.00 sheet number

E0.01

www.swmm.com

415.546.0000 T
415.582.7062 F

SWMM

architecture
interiors
planning
graphic design

City of
Cupertino
10500 Torre Avenue
Cupertino, CA 95014
408.777.3254 T
408.777.3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redlin, CA 95765
916.435.2400 T
916.435.2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
415.865.1810 F

Forell/Essener
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415.837.0700 T
415.837.0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415.398.2633 T
415.485.4025 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415.485.4025 T
415.485.4660 F

Cupertino Civic Center
10400 Torre Avenue, Cupertino, CA 95014

LIGHTING CONTROLS CREDIT WORKSHEET												
PROJECT NAME											DATE	
SEE LTG-1 Part 1											SEE LTG-1 Part 1	
WORKSHEET												
A	B	C	D	E	F	G	H	I		J	K	
ROOM # OR ZONE ID	LIGHTING CONTROL DESCRIPTION	PLANS REF	ROOM AREA (SF)	DAYLIGHTING ROOM RATIO	GLAZING VLT	WATTS OF CONTROL LIGHTING	LIGHTING ADJUST FACTOR	CONTROL CREDIT WATTS (G x H)				
RM 119	OCCUPANCY SENSOR	E3.10	127			124	.20	25				
RM 117	OCCUPANCY SENSOR	E3.10	64			110	.20	22				
RM 118	OCCUPANCY SENSOR	E3.10	64			110	.20	22				
RM 123	OCCUPANCY SENSOR	E3.10	533			372	.10	37				
RM 127	OCCUPANCY SENSOR	E3.10	250			248	.20	50				
RM 134	OCCUPANCY SENSOR	E3.10	145			80	.20	16				
RM 129	OCCUPANCY SENSOR	E3.10	66			124	.20	25				
RM 130	OCCUPANCY SENSOR	E3.10	66			124	.20	25				
RM 137	OCCUPANCY SENSOR	E3.10	144			124	.20	25				
RM 138	OCCUPANCY SENSOR	E3.10	165			124	.20	25				
RM 141	OCCUPANCY SENSOR	E3.10	298			424	.10	42				
RM 142	OCCUPANCY SENSOR	E3.10	128			80	.20	16				
RM 152	OCCUPANCY SENSOR	E3.10	241			246	.20	49				
RM 153	OCCUPANCY SENSOR	E3.10	241			246	.20	49				
RM 208	OCCUPANCY SENSOR	E3.11	133			148	.20	30				
RM 209	OCCUPANCY SENSOR	E3.11	133			148	.20	30				
RM 218	OCCUPANCY SENSOR	E3.11	471			744	.10	74				
RM 220	OCCUPANCY SENSOR	E3.11	572			837	.10	84				
RM 227	OCCUPANCY SENSOR	E3.11	429			307	.10	31				
AREA 116	PHOTOCELL	E3.10	493	.57	.70	360	.40	144				
AREA 114	PHOTOCELL	E3.10	489	.57	.70	360	.40	144				
AREA 112	PHOTOCELL	E3.10	1597	.43	.70	1080	.40	432				
AREA 135	PHOTOCELL	E3.10	878	.35	.70	540	.40	216				
AREA 136	PHOTOCELL	E3.10	878	.35	.70	540	.40	216				
AREA 103	PHOTOCELL	E3.10	970	.50	.70	720	.40	288				
AREA 213	PHOTOCELL	E3.11	3190	.42	.70	2400	.40	960				
AREA 215	PHOTOCELL	E3.11	1399	.79	.70	620	.40	248				
AREA 217	PHOTOCELL	E3.11	1394	.35	.70	1260	.40	504				
AREA 226	PHOTOCELL	E3.11	1844	.72	.70	1984	.40	794				
AREA 201	PHOTOCELL	E3.11	735	.18	.70	248	.40	99				
AREA 204	PHOTOCELL	E3.11	3648	.69	.70	960	.40	384				
AREA 203	PHOTOCELL	E3.11	2342	.66	.70	960	.40	384				
AREA 231	PHOTOCELL	E3.11	2435	.66	.70	1080	.40	432				
PAGE TOTAL											5994	
BUILDING TOTAL												
Enter on LTG-1 and 2: Plus Subtotal From Continuation Page												

Nonresidential Compliance Form January 2007

CERTIFICATE OF COMPLIANCE - Lighting (Part 1 of 3) LTG-1					
PROJECT NAME					DATE
CUPERTINO CIVIC CENTER LIBRARY					02/18/03
PROJECT ADDRESS		TELEPHONE		BUILDING PERMIT #	
10300 TORRE AVENUE, CUPERTINO, CA. 95104		415 398-3833			
PRINCIPAL DESIGNER - LIGHTING		TELEPHONE		CHECKED BY/DATE	
FLACK + KURTZ INC		415 398-3833		Enforcement Agency Use	
DOCUMENTATION AUTHOR		TELEPHONE			
FLACK + KURTZ INC		415 398-3833			
GENERAL INFORMATION					
DATE OF PLANS		BUILDING CONDITIONED FLOOR AREA		CLIMATE ZONE	
02/18/03		54,500 SQ FT		C	
BUILDING TYPE <input checked="" type="checkbox"/> NONRESIDENTIAL <input type="checkbox"/> HIGH RISE RESIDENTIAL <input type="checkbox"/> HOTEL/MOTEL GUEST ROOM					
PHASE OF CONSTRUCTION <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION <input type="checkbox"/> UNCONDITIONED (file affidavit)					
METHOD OF LIGHTING COMPLIANCE <input checked="" type="checkbox"/> COMPLETE BUILDING <input type="checkbox"/> AREA CATEGORY <input type="checkbox"/> TAILORED <input type="checkbox"/> PERFORMANCE					
STATEMENT OF COMPLIANCE					
This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements. The documentation preparer hereby certifies that the documentation is accurate and complete.					
DOCUMENTATION AUTHOR SIGNATURE: KATHRYN J. GIBSON DATE: 02/18/03					
The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets with the specifications, and with any other conditions submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in sections 110, 111, 130 through 132, 146 and 149 of Title 24, Part 6.					
Please check one:					
<input checked="" type="checkbox"/> I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the state of California as a civil engineer or electrical engineer, or I am a licensed architect.					
<input type="checkbox"/> I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.					
<input type="checkbox"/> I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.					
(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)					
PRINCIPAL LIGHTING DESIGNER NAME		SIGNATURE		DATE	
ROBERT HIXDORF				02/18/03 UC # E16495	

INDICATE LOCATION ON PLANS OF NOTE BLOCK FOR MANDATORY MEASURES THIS SHEET

INSTRUCTIONS TO APPLICANT
For detailed instructions on the use of this and all Energy Efficiency Standards Compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

CERTIFICATE OF COMPLIANCE - Lighting (Part 2 of 3)

INSTALLED LIGHTING SCHEDULE											
LUMINAIRE NAME	LUMINAIRE DESCRIPTION	LAMPS		BALLASTS		LUMINAIRE		TOTAL WATTS			
		TYPE	NO.	TYPE	NO.	NO. OF LUMIN.	WATTS/LUMIN.		AREA (SF)	WATTS (SF)	ALLOWED WATTS
A1A	STACK UPLIGHT	F54TSHO	4	ELEC/DIM	2	25	240	1680			
A1	STACK UPLIGHT	F54TSHO	2	ELEC/DIM	1	13	120	2520			
A1	STACK UPLIGHT	F54TSHO	3	ELEC/DIM	1	13	180	18720			
A1	STACK UPLIGHT	F54TSHO	4	ELEC/DIM	2	96	240	10800			
A3	RECESSED COMP. FLUOR.	CFR42W	1	ELECTRONIC	1	124	44	5456			
A3A	RECESSED COMP. FLUOR.	CFR42W	1	ELECTRONIC	1	34	44	1496			
A4	RECESSED WALLWASHER	CFR42W	1	ELECTRONIC	1	42	44	1848			
A5	SEMI-RECESSED TROFFER	F32TB	2	ELECTRONIC	1	68	62	3844			
A6	SURFACE MOUNT UPLIGHT	F25/32TB	1	ELECTRONIC	1	9/131	27/32	4435			
A6A	SURFACE MOUNT UPLIGHT	F25/32TB	1	ELECTRONIC	1	184	15/FT	2760			
A7	INDIRECT COVE	F25/32TB	1	ELECTRONIC	1	0/8	27/32	256			
A8	SURFACE MOUNT DIRECT/INDIRECT	F25/32TB	2	ELECTRONIC	1	2/12	48/62	936			
A9	PENDANT DIRECT/INDIRECT	F54TSHO	1/2	ELECTRONIC	1	18/40	60/120	5880			
A10	PENDANT LINEAR FLOOR	F32TB	4	ELECTRONIC	1	20	124	2480			
A11	CHAIN MOUNT STRIP	F32TB	2/4	ELECTRONIC	1	1/8	62/124	1054			
A14	RECESSED COMP. FLUOR.	EPG13W	2	MAGNETIC	1	12	34	408			
A15	RECESSED STACK LIGHT	F32TB	1	ELECTRONIC	1	12	32	384			
A16	PENDANT DIRECT/INDIRECT	F54TSHO	1/2	ELECTRONIC	1	24/60	60/120	8640			
A17	NARROW STRIP	F25/32TB	1	ELECTRONIC	1	0/1	27/32	32			
A18	SURFACE MOUNT DIRECT/INDIRECT	F32TB	2	ELECTRONIC	1	8	62	496			
A39	FLU. TASK LIGHT	F14T5	1	ELECTRONIC	1	0	20	0			
A44	FLU. TASK LIGHT	F25/32TB	1	ELECTRONIC	1	36	8/FT	288			
A45	PENDANT DOWNLIGHT	CFQ26W	2	ELECTRONIC	1	18	65	1170			
A46	TRACK	MR16	1	50	ELECTRONIC	1	120	150/2	9000		
A52	RECESSED WALL WASHER	MR16	1	75	ELECTRONIC	1	8	90	720		
F1	STRIP	F32TB	2	ELECTRONIC	1	12	62	744			
F2	STRIP	F32TB	2	ELECTRONIC	1	10	62	620			
F7	WET LOCATION STRIP	F32TB	2	ELECTRONIC	1	3	62	186			

SUBTOTAL FROM THIS PAGE: 74959
PLUS SUBTOTAL FROM CONTINUATION PAGE: N/A
PORTABLE LIGHTING (FROM LTG-1 Part 3 of 3): 612
LESS CONTROL CREDIT WATTS (FROM LTG-3): 5994
ADJUSTED ACTUAL WATTS: 68353

MANDATORY AUTOMATIC CONTROLS				
CONTROL LOCATION (Room # or Zone ID)	CONTROL IDENTIFICATION	CONTROL TYPE (See Title 24, Sections, etc.)	SPACE CONTROLLED	NOTE TO FIELD
CEILING	OS	OCCUPANCY SENSOR	ENCLOSED AREAS	
WALL	LV	LOW VOLTAGE SWITCH	OPEN AREAS	
CONTROLS FOR CREDIT				
CONTROL LOCATION (Room # or Zone ID)	CONTROL IDENTIFICATION	CONTROL TYPE (See Title 24, Sections, etc.)	LUMINAIRES CONTROLLED	NOTE TO FIELD
SEE PLANS	OS	OCCUPANCY SENSOR		
SEE PLANS	PG	PHOTOCELL		

NOTES TO FIELD - For Building Department Use Only

PORTABLE LIGHTING WORKSHEET (Part 3 of 3) LTG-1				
PROJECT NAME				DATE
SEE LTG-1 Part 1				SEE LTG-1 Part 1
TABLE 1A - PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET				
A	B	C	D	E
ROOM # OR ZONE ID	DEFAULT	AREA (SF)	TOTAL WATTS (BxC)	
STAFF WORK ROOMS 135/136	0.2	1694	339	
STAFF WORKROOM 217	0.2	1364	273	
TOTAL			3058	612

TABLE 1B - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET						
A	B	C	D	E	F	G
ROOM # OR ZONE ID	PORTABLE LIGHTING DESCRIPTION(S) PER TASK AREA	LUMINAIRE(S) WATTS PER TASK AREA	TASK AREA (SF)	NUMBER OF TASK AREAS	TOTAL AREA (SF) (DxE)	TOTAL WATTS (CxE)
TOTAL						

TABLE 1C - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE AREAS > 250 SQUARE FEET		
ROOM # OR ZONE ID	TOTAL AREA (SF)	TOTAL WATTS
TOTAL		

TABLE 1A - PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET		
BUILDING SUMMARY	TOTAL AREA (SF)	TOTAL WATTS
ROOM # OR ZONE ID	(FROM TABLE 1A+1B+1C)	(FROM TABLES 1A+1B)
BUILDING TOTAL		

- ### TITLE 24 COMPLIANCE NOTES:
- BUILDING LIGHTING SHUT-OFF:**
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH TO CONTROL THE LIGHTING IN ALL OPEN OFFICE AREAS, CORRIDORS AND LOBBIES WITH LOW VOLTAGE SWITCH OVERRIDE FOR AFTER HOURS OPERATION AND WITH A ZONE FOR EACH FLOOR. ALL SMALL ENCLOSED OFFICES, TOILETS, KITCHENS, COPY ROOMS AND SIMILAR ENCLOSED AREAS ARE AUTOMATICALLY SHUT OFF BY LOCAL OCCUPANCY SENSORS ZONED FOR EACH ROOM.
 - OVERRIDE FOR BUILDING LIGHTING SHUT-OFF:**
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH LOW VOLTAGE SWITCH AND/OR OCCUPANCY SENSOR OVERRIDE. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
 - AUTOMATIC CONTROL DEVICES CERTIFIED:**
ALL AUTOMATIC CONTROL DEVICES SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA AND INSTALLED AS DIRECTED BY THE MANUFACTURER FOR PROPER CONTROL AND OPERATION.
 - FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED:**
ALL FLUORESCENT FIXTURES SPECIFIED SHALL BE LISTED IN THE DIRECTORY OF CERTIFIED LUMINAIRES AND BALLASTS. ALL INSTALLED FIXTURES SHALL BE CERTIFIED BY THE STATE.
 - TANDEM WIRING:**
ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH-FREQUENCY BALLASTS AND ARE EXEMPT FROM TWO-LAMP TANDEM WIRING REQUIREMENTS.
 - INDIVIDUAL ROOM/AREA CONTROLS:**
EACH ROOM AND AREA IN THIS BUILDING SHALL BE EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.
 - UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:**
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND WITH MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
 - DAYLIGHT AREA CONTROL:**
ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET, WITH WINDOWS, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT, SHALL HAVE AT LEAST 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH.
 - CONTROL OF EXTERIOR LIGHTS:**
EXTERIOR MOUNTED FIXTURES ATTACHED TO OR POWERED BY THE ELECTRICAL SERVICE IN BUILDINGS THAT CONTAIN CONDITIONED SPACE SHALL BE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF OR AN ASTRONOMICAL TIME SWITCH AND A CORRESPONDING ELECTRICAL CONTACTOR THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.

LIGHTING COMPLIANCE SUMMARY LTG-2							
PROJECT NAME							DATE
SEE LTG-1 Part 1							SEE LTG-1 Part 1
ACTUAL LIGHTING POWER							
LUMINAIRE NAME	LUMINAIRE DESCRIPTION	NUMBER OF LUMINAIRES	WATTS PER LUMINAIRE (Including Ballast)	CC DEFALTY	Y	N	TOTAL WATTS
A1A	STACK UPLIGHT	23	240	<input checked="" type="checkbox"/>			5520
A1	STACK UPLIGHT (2 LAMPS)	13	120	<input checked="" type="checkbox"/>			1560
A1	STACK UPLIGHT (3 LAMPS)	13	180	<input checked="" type="checkbox"/>			2340
A1	STACK UPLIGHT (4 LAMPS)	96	240	<input checked="" type="checkbox"/>			11520
A3	RECESSED COMP. FLUOR.	124	44	<input checked="" type="checkbox"/>			5456
A3A	RECESSED COMP. FLUOR.	34	44	<input checked="" type="checkbox"/>			1496
A4	RECESSED WALLWASHER	42	44	<input checked="" type="checkbox"/>			1848
A5	SEMI-RECESSED TROFFER	68	62	<input checked="" type="checkbox"/>			4216
A6	SURFACE MOUNT UPLIGHT	9/131	27/32	<input checked="" type="checkbox"/>			4435
A6A	SURFACE MOUNT UPLIGHT	184	15/FT	<input checked="" type="checkbox"/>			2760
A7	INDIRECT COVE	0/8	27/32	<input checked="" type="checkbox"/>			256
A8	SURFACE MOUNT DIRECT/INDIRECT	2/12	48/62	<input checked="" type="checkbox"/>			936
A9	PENDANT DIRECT/INDIRECT	18/40	60/120	<input checked="" type="checkbox"/>			5880
A10	PENDANT LINEAR FLOOR	28	124	<input checked="" type="checkbox"/>			3472
A11	CHAIN MOUNT STRIP	1/8	62/124	<input checked="" type="checkbox"/>			1054
A14	RECESSED COMP. FLUOR.	12	34	<input checked="" type="checkbox"/>			408
A16	RECESSED DIRECT/INDIRECT	24/60	60/120	<input checked="" type="checkbox"/>			8640
A17	NARROW STRIP	0/0	27/32	<input checked="" type="checkbox"/>			0
A18	SURFACE MOUNTED DIRECT/INDIRECT	8	62	<input checked="" type="checkbox"/>			496
A39	FLUORESCENT TASK LIGHT	0	20	<input checked="" type="checkbox"/>			0
A44	FLUORESCENT TASK LIGHT	36	8/FT	<input checked="" type="checkbox"/>			288
A45	PENDANT DOWNLIGHT	18	65	<input checked="" type="checkbox"/>			1170
A46	TRACK	120	150/2	<input checked="" type="checkbox"/>			9000
A52	RECESSED WALLWASHER	8	90	<input checked="" type="checkbox"/>			720
F1	STRIP	12	62	<input checked="" type="checkbox"/>			744
F2	STRIP	10	62	<input checked="" type="checkbox"/>			620
F7	WET LOCATION STRIP	3	62	<input checked="" type="checkbox"/>			186
SUBTOTAL FROM THIS PAGE		74959					
SUBTOTAL FROM CONTINUATION PAGE		N/A					
PORTABLE LIGHTING (FROM LTG-1 Part 3 of 3)		612					
LESS CONTROL CREDIT WATTS (FROM LTG-3)		5994					
ADJUSTED ACTUAL WATTS		68353				</	

LIGHTING RELAY CABINET SCHEDULE: LRC-L2B					
RELAY NUMBER	LIGHTING ZONE DESCRIPTION	BRANCH CIRCUIT	CONTROL		
			ON	OFF	
1	SEATING	LP-L2C/1n	LV	SR	
2	DISPLAY ALCOVE	LP-L2C/1o	LV	SR	
3	PERIMETER COVE	LP-L2C/3p	LV	SR	
4	NON-FICTION SHELVING	LP-L2C/5q	LV	SR	
5	NON-FICTION SHELVING	LP-L2C/7q	LV	SR	
6	NON-FICTION SHELVING	LP-L2C/8q	LV	SR	
7	NON-FICTION SHELVING	LP-L2C/11q	LV	SR	
8	NON-FICTION SHELVING	LP-L2C/13q	LV	SR	
9	NON-FICTION SHELVING	LP-L2C/15q	LV	SR	
10	NON-FICTION SHELVING	LP-L2C/17q	LV	SR	
11	NON-FICTION SHELVING	LP-L2C/19r	LV	SR	
12	NON-FICTION SHELVING	LP-L2C/21r	LV	SR	
13	NON-FICTION SHELVING	LP-L2C/23r	LV	SR	
14	NON-FICTION SHELVING	LP-L2C/25r	LV	SR	
15	QUIET STUDY	LP-L2C/27s	LV	SR	
16	QUIET STUDY	LP-L2C/27u	LV	SR	
17	QUIET STUDY	LP-L2C/29h	LV	SR	
18	MAGAZINES	LP-L2C/31v	LV	SR	
19	MAGAZINES	LP-L2C/33v	LV	SR	
20	MAGAZINES	LP-L2C/35v	LV	SR	
21	MAGAZINES	LP-L2C/37w	LV	SR	
22	MAGAZINES	LP-L2C/37x	LV	SR	
23	REFERENCE	LP-L2C/39y	LV	SR	
24	SPARE				
25	SPARE				
26	SPARE				
27	SPARE				
28	SPARE				
29	SPACE				
30	SPACE				
31	SPACE				
32	SPACE				
CONTROL TYPES	TS = TIME SCHEDULE LV = LOW VOLTAGE SWITCH	SR = SWEEP REPEAT OS = OCCUPANCY SENSOR	LI = LINE INTERRUPT SWITCH	PC = PHOTOCELL	

LIGHTING RELAY CABINET SCHEDULE: LRC-L1C					
RELAY NUMBER	LIGHTING ZONE DESCRIPTION	BRANCH CIRCUIT	CONTROL		
			ON	OFF	
1	SEATING	LP-L1C/1m	LV	SR	
2	SEATING	LP-L1C/3n	LV	SR	
3	CIRCULATION DESK	LP-L1C/3o	LV	SR	
4	DISPLAY WALL	LP-L1C/3p	LV	SR	
5	COPY ROOM	LP-L1C/3q	LV	SR	
6	BROWSING STACKS	LP-L1C/5q	LV	SR	
7	BROWSING STACKS	LP-L1C/7q	LV	SR	
8	CHILDRENS' COLLECTION	LP-L1C/9e	LV	SR	
9	CHILDRENS' COLLECTION	LP-L1C/11s	LV	SR	
10	CHILDRENS' PICTURE BOOKS	LP-L1C/11r	LV	SR	
11	CHILDRENS' COLLECTION	LP-L1C/13h	LV	SR	
12	CHILDRENS' COLLECTION	LP-L1C/15h	LV	SR	
13	CHILDRENS' COLLECTION	LP-L1C/17h	LV	SR	
14	STORY TIME	LP-L1C/19u	LV	SR	
15	STORY TIME	LP-L1C/21v	LV	SR	
16	STORY TIME	LP-L1C/23v	LV	SR	
17	EXTERIOR ENTRY	LP-L1C/27	PC	PC	
18	COLUMN UPLIGHTS	LP-L1C/33b	PC	TS	
19	AQUARIUM	LP-L1C/3w	LV	SR	
20	AQUARIUM ILLUMINATED SIGNAGE	LP-L1C/1x	LV	SR	
21	AQUARIUM SIGNAGE LIGHTING	LP-L1C/35x	LV	SR	
22	SPARE				
23	SPARE				
24	SPARE				
25	SPACE				
26	SPACE				
27	SPACE				
28	SPACE				
29	SPACE				
30	SPACE				
31	SPACE				
32	SPACE				
CONTROL TYPES	TS = TIME SCHEDULE LV = LOW VOLTAGE SWITCH	SR = SWEEP REPEAT OS = OCCUPANCY SENSOR	LI = LINE INTERRUPT SWITCH	PC = PHOTOCELL	

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	ALTERNATE MANUFACTURER	LAMP DATA			VOLTS	REMARKS	
				QTY	DESCRIPTION	WATTS			
F1	SURFACE MOUNT 4' STANDARD STRIP LIGHT WITH TWO 32W T8 FLUORESCENT LAMPS, WIRE GUARD AND ELECTRONIC BALLAST.	COOPER/METALUX SS232 SERIES W6/SS-4FT	DAYBRITE T232 SERIES WIRE GUARD	2	F032T8/841	32	120	ELECTRICAL/TELECOM ROOMS	
F2	SIMILAR TO "F1" EXCEPT WITH PROVISION FOR EMERGENCY LIGHTING VIA BATTERY PACK.	DAYBRITE T232 SERIES WIRE GUARD EMER PACK	LITHONIA C232-SERIES W6CLN, EL	2	F032T8/841	32	120		
F4	PENDANT MOUNTED, 4' STANDARD STRIP LIGHT, SOLID SYMMETRIC APERTURED REFLECTOR, TWO 32W T8 FLUORESCENT LAMPS, WIRE GUARD AND ELECTRONIC BALLAST.	COLUMBIA CSR4-2 SERIES CSRW64, SS18	LITHONIA L232 SERIES WGL SQ18	2	F032T8/841	32	120	SERVER ROOMS	
F5	SURFACE MOUNT 4' WET LABEL ENCLOSED AND GASKETED INDUSTRIAL FIXTURE WITH TWO 32W T8 FLUORESCENT LAMPS, AND ELECTRONIC BALLAST.	COLUMBIA LU4-2 SERIES	DAYBRITE VD232 SERIES	2	F032T8/841	32	120	ROOF	
F6	SIMILAR TO "F5" EXCEPT WITH PROVISION FOR EMERGENCY LIGHTING VIA BATTERY PACK.	COOPER VT2-232-EL4 SERIES	LITHONIA DMW-232-120-EL SERIES	2	F032T8/841	32	120	ROOF EMERGENCY	
F7	SIMILAR TO "F6" EXCEPT UL LISTED FOR WET LOCATION.	COLUMBIA LU4-232-WL	OR APPROVED EQUAL	2	F032T8/841	32	120	LIFE SUPPORT SYSTEM/AQUARIUM ROOM	
G1	WALL MOUNTED NON-METALLIC VAPORPROOF CLEAR GLASS GLOBE FIXTURE WITH GUARD AND ONE 28W TRIPLE TUBE COMPACT FLUORESCENT WITH ELECTRONIC BALLAST.	COOPER GFWF26-HIG-GSC	PHOENIX VPO027110	1	CFT26W/G24q/841	26	120	ELEVATOR PITTS, FOUNTAIN VAULT	
H1	RECESSED COMPACT FLUORESCENT WALL LIGHT WITH DIE-CAST ALUMINUM HOUSING AND SHIELD, ONE 40W T10 LAMP AND ELECTRONIC BALLAST.	HADCO RS82-T5-1-E	OR APPROVED EQUAL	1	40T10	40	120	ROOF PARAPET	
X1A	ARCHITECTURAL EDGE-LIT LED EXIT SIGN, CLEAR BACKGROUND, SURFACE, WALL, CEILING, OR PENDANT MOUNTED WITH DIRECTIONAL ARROWS AS INDICATED AND BATTERY PACK, GREEN LETTERS.	COOPER SURELITES ELX SERIES	LITHONIA LRP SERIES	1	LED	1.2	120	ALL INTERIOR AREAS (LIBRARY)	
X1B	RECESSED STAINLESS STEEL LED EXIT SIGN WITH INTEGRAL NI-CAD BATTERY, ARROWS AS INDICATED ON PLANS, RED LETTERS.	COLE LN20S-RED-120-EM	OR APPROVED EQUAL	1	LED	1.2	120	ALL INTERIOR AREAS (COMMUNITY HALL)	
X2	LED WET LABEL EXIT SIGN MADE OF CAST ALUMINUM; SURFACE, WALL, CEILING, OR PENDANT MOUNTED WITH DIRECTIONAL ARROWS AS INDICATED AND BATTERY PACK, GREEN LETTERS.	COLE LN20X-GRN-120-EM	LITHONIA LVS-AB-XG-120 SERIES	1	LED	1.2	120	ALL EXTERIOR AREAS	
OP	SURFACE MOUNTED EGRESS FIXTURE WITH TWO (2) 5.4W TUNGSTEN LAMPS, LEAD-CALCIUM BATTERY AND UV-STABILIZED POLYCARBONATE HOUSING, HOUSING TO BE BLACK IN COLOR.	LITHONIA QUANTUM ELM2-B	OR APPROVED EQUAL	2	5.4W QTZ	5.4	120	COORDINATE MOUNTING WITH PIPE RACK AND OTHER CEILING ASSEMBLIES	

NOTE: REFER TO SPECIFICATION SECTION 16501 FOR ADDITIONAL FIXTURE TYPES.

LIGHTING RELAY CABINET SCHEDULE: LRC-CH1A					
RELAY NUMBER	LIGHTING ZONE DESCRIPTION	BRANCH CIRCUIT	CONTROL		
			ON	OFF	
1	NORTH/EAST PLAZA-SECURITY	LP-CH1A/1a	PC	PC	
2	NORTH/EAST PLAZA	LP-CH1A/1b	PC	TS	
3	WEST PLAZA-SECURITY	LP-CH1A/3a	PC	PC	
4	ARCADE ENTRY	LP-CH1A/3b	PC	TS	
5	WEST PLAZA	LP-CH1A/5b	TS	TS	
6	RESTROOMS	LP-CH1A/9a	TS	SR	
7	LOBBY	LP-CH1A/9b	LV	SR	
8	LOBBY	LP-CH1A/9c	LV	SR	
*9	ARCADE-EMERGENCY	INV-CH1/E1a	PC	TS	
*10	ARCADE-EMERGENCY	INV-CH1/E1b	PC	TS	
*11	ARCADE-EMERGENCY	INV-CH1/E2	PC	TS	
12	PATIOS - A47	LP-CH1A/17f	TS	TS	
13	PATIOS - A48	LP-CH1A/15d	TS	TS	
14	PATIOS - A49	LP-CH1A/15e	TS	TS	
*15	SOUTH PLAZA-SECURITY/EMER	INV-CH1A/E5a	PC	PC	
*16	SOUTH PLAZA-EMERGENCY	INV-CH1A/E5b	PC	TS	
*17	EXTERIOR FACADE-EMERGENCY	INV-CH1A/E6a	PC	TS	
*18	EXTERIOR FACADE-EMERGENCY	INV-CH1A/E6b	PC	TS	
19	SIGNAGE LIGHTING	LP-CH1A/5c	PC	TS	
20	SPARE				
21	SPACE				
22	SPACE				
23	SPACE				
24	SPACE				
25	SPACE				
26	SPACE				
27	SPACE				
28	SPACE				
29	SPACE				
30	SPACE				
31	SPACE				
32	SPACE				
CONTROL TYPES	TS = TIME SCHEDULE LV = LOW VOLTAGE SWITCH	SR = SWEEP REPEAT OS = OCCUPANCY SENSOR	LI = LINE INTERRUPT SWITCH	PC = PHOTOCELL	

LIGHTING RELAY CABINET SCHEDULE: LRC-L2A					
RELAY NUMBER	LIGHTING ZONE DESCRIPTION	BRANCH CIRCUIT	CONTROL		
			ON	OFF	
1	STAFF WORK ROOM	LP-L2A/3a	LV	SR	
2	STAFF WORK ROOM	LP-L2A/3b	LV	SR	
3	HALL	LP-L2A/3c	TS	TS	
4	YOUNG ADULTS	LP-L2A/5d	LV	SR	
5	YOUNG ADULTS	LP-L2A/5e	LV	SR	
6	YOUNG ADULTS	LP-L2A/7e	LV	SR	
7	YOUNG ADULTS	LP-L2A/9d	LV	SR	
8	REFERENCE DESK	LP-L2A/11f	LV	SR	
9	REFERENCE DESK	LP-L2A/11g	LV	SR	
10	REFERENCE DESK	LP-L2A/11h	TS	TS	
11	COVE LIGHTS	LP-L2A/13m	LV	SR	
12	FICTION COLLECTION	LP-L2A/15i	LV	SR	
13	FICTION COLLECTION	LP-L2A/17j	LV	SR	
14	REF SHELVING	LP-L2A/19k	LV	SR	
15	REF SHELVING	LP-L2A/21k	LV	SR	
16	SPARE				
17	SPARE				
18	SPARE				
19	SPARE				
20	SPARE				
21	SPARE				
22	SPACE				
23	SPACE				
24	SPACE				
25	SPACE				
26	SPACE				
27	SPACE				
28	SPACE				
29	SPACE				
30	SPACE				
31	SPACE				
32	SPACE				
CONTROL TYPES	TS = TIME SCHEDULE LV = LOW VOLTAGE SWITCH	SR = SWEEP REPEAT OS = OCCUPANCY SENSOR	LI = LINE INTERRUPT SWITCH	PC = PHOTOCELL	

LIGHTING RELAY CABINET SCHEDULE: LRC-L1A					
RELAY NUMBER	LIGHTING ZONE DESCRIPTION	BRANCH CIRCUIT	CONTROL		
			ON	OFF	
1	CHILDRENS' STAFF/CIRC. STAFF WORKROOM	LP-L1A/5a	LV	SR	
2	HALL/VESTIBULE	LP-L1A/5b	TS	SR	
3	INSIDE MATERIALS RETURN	LP-L1A/7c	LV	SR	
4	BOOK RETURN	LP-L1A/9d	LV	SR	
5	BOOK HOLD	LP-L1A/9e	LV	SR	
6	LOBBY - FRONT ZONE	LP-L1A/13h	TS	SR	
7	LOBBY - CIRC. DESK	LP-L1A/15g	TS	SR	
8	SPARE				
9	SPARE				
10	CHILDRENS' PICTURE BOOK ROOM	LP-L1A/19j	LV	SR	
11	CHILDRENS' PICTURE BOOK - TRACK	LP-L1A/21k	LV	SR	
12	CHILDRENS' PICTURE BOOK - TRACK	LP-L1A/23k	LV	SR	
13	CHILDRENS' PICTURE BOOK - TRACK	LP-L1A/25k	LV	SR	
14	CHILDRENS' PICTURE BOOK - TRACK	LP-L1A/27k	LV	SR	
15	COLUMN UPLIGHTS	LP-L1A/33b	PC	TS	
16	SW PARKING	LP-L1A/35b	PC	TS	
*17	SW PARKING - SECURITY/EMERGENCY	INV-L1A/11a	PC	PC	
*18	SW PARKING - EMERGENCY	INV-L1A/11b	PC	TS	
*19	SW PARKING - SECURITY/EMERGENCY	INV-L1A/12a	PC	PC	
*20	SOUTH PARKING - EMERGENCY	INV-L1A/13b	PC	TS	
*21	SOUTH EXTERIOR - SECURITY/EMERGENCY	INV-L1A/14a	PC	PC	
*22	INTERIOR COURTYARD - EMERGENCY	INV-L1A/14c	PC	SR	
23	SOUTH PLAZA - SECURITY/EMERGENCY	INV-L1A/15a	PC	PC	
24	SOUTH PLAZA - EMERGENCY	INV-L1A/15b	PC	TS	
25	EAST PLAZA - SECURITY/EMERGENCY	INV-L1A/16a	PC	PC	
26	EAST PLAZA - EMERGENCY	INV-L1A/16b	PC	TS	
27	SPARE				
28	SPARE				
29	SPARE				
30	SPACE				
31	SPACE				
32	SPACE				
CONTROL TYPES	TS = TIME SCHEDULE LV = LOW VOLTAGE SWITCH	SR = SWEEP REPEAT OS = OCCUPANCY SENSOR	LI = LINE INTERRUPT SWITCH	PC = PHOTOCELL	

* = PROVIDE FAIL-SAFE, NORMALLY CLOSED RELAY FOR EMERGENCY LIGHTING.

NUMBERED NOTES

- ① REFER TO SPECIFICATION SECTION 16501 FOR ADDITIONAL DESCRIPTION, MANUFACTURER AND CATALOG NUMBER OF LIGHT FIXTURES AND LAMPS.
- ② PROVIDE INTERNAL METAL BARRIER BETWEEN NORMAL AND EMERGENCY POWER.

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BID SET

LUMINAIRE AND LIGHTING SCHEDULES

scale	none	date	2003.04.18
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SMWV
 architecture
 interiors
 planning
 graphic design
 City of
 Cupertino
 10300 Torre Avenue
 Cupertino, CA 95014
 408.777.3554 T
 408.777.3883 F
 Sandis Humber Jones
 590 Merito Drive, Suite 1
 Redlin, CA 95785
 916.435.2400 T
 916.435.2410 F
 Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415.885.1811 T
 415.885.1810 F
 Forth/Essner
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415.837.0700 T
 415.837.0800 F
 Flack + Kurtz
 425 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415.398.3833 T
 415.433.5311 F
 Architectural
 Lighting Design
 370 Brannan Street
 San Francisco, CA 94107
 415.485.4085 T
 415.485.4660 F

EQUIPMENT CONNECTION SCHEDULE									
DESIGNATION	HP	FLA	KVA	VOL-TAG	P	POWER SOURCE	CONNECTION TYPE	BRANCH CIRCUIT WIRING	REMARKS
AC-1		800		208	3	MS-L1A	SPC	800G	
ACC-1	16.8		4A	208	1	LP-L2D	M	1/2"C.2#12 & #12G	
ACC-2	16.8			208	1	LP-L2B	M	1/2"C.2#12 & #12G	
ACC-3	10.7			208	1	LP-L2D	M	1/2"C.2#12 & #12G	
ACC-4	16.8			208	1	LP-CH1B	M	1/2"C.2#12 & #12G	
HP-1	70.4			208	3	MS-CH1A	SPC	90G	PROVIDE DISCONNECT SWITCH
HP-2	96.5			208	3	MS-CH1A	SPC	125G	PROVIDE DISCONNECT SWITCH
HP-3	28.9			208	3	MS-CH1A	SPC	40G	PROVIDE DISCONNECT SWITCH
HP-4	22.5			208	3	MS-CH1A	SPC	30G	PROVIDE DISCONNECT SWITCH
HP-5	32.8			208	3	MS-CH1A	SPC	50G	PROVIDE DISCONNECT SWITCH
HP-6	14			208	1	LP-CH1B	SPC	20G	PROVIDE DISCONNECT SWITCH
HP-7	14			208	1	LP-CH1B	SPC	20G	PROVIDE DISCONNECT SWITCH
FC-1	1.31			208	1	LP-L1D	M	1/2"C.2#12 & #12G	
FC-2	1.31			208	1	LP-L1B	M	1/2"C.2#12 & #12G	
FC-3	0.66			208	1	LP-L1D	M	1/2"C.2#12 & #12G	
FC-4	0.66			208	1	LP-CH1B	M	1/2"C.2#12 & #12G	
FC-5	0.66			208	1	LP-CH1B	M	1/2"C.2#12 & #12G	
B-1	28			208	3	LP-L2B	SPC	40G	BOILER PUMPS
EF-1	1/2			208	3	LP-L1B	M	MCS	
EF-2	1/3			120	1	LP-L1D	M	1/2"C.2#12 & #12G	
EF-3	1/2			208	3	LP-L2D	M	MCS	
EF-4	1/4			120	1	LP-L2B	M	1/2"C.2#12 & #12G	
EF-5	1/6			120	1	LP-CH1B	FR	1/2"C.2#12 & #12G	
EF-6	1/6			120	1	LP-CH1B	FR	1/2"C.2#12 & #12G	
EF-7	1/6			120	1	LP-CH1B	FR	1/2"C.2#12 & #12G	
EF-8	1/4			120	1	LP-CH1B	FR	1/2"C.2#12 & #12G	FOUNTAIN VAULT
EF-9	1/4			120	1	LP-L1D	FR	1/2"C.2#12 & #12G	AQUARIUM
EWH-1	22			208	1	SEE PLANS	SPC	1/2"C.2#10 & #10G	PROVIDE DISCONNECT SWITCH
EWH-2	38			208	1	SEE PLANS	SPC	1"C.2#6 & #10G	PROVIDE DISCONNECT SWITCH
EWH-3	43.2			208	1	LP-CH1B	SPC	1.25"C.2#4 & #10G	PROVIDE DISCONNECT SWITCH
EWH-4	37.5			208	3	LP-L1B	SPC	1"C.2#6 & #10G	PROVIDE DISCONNECT SWITCH
ESP-1	1/2			120	1	LP-L1B	FR	1/2"C.2#12 & #12G	
ESP-2	1/2			120	1	LP-L1D	FR	1/2"C.2#12 & #12G	
ELEV-1	82			208	3	MS-L1A	SPC	125G	PROVIDE SHUNT TRIP BREAKER
ELEV-2	82			208	3	MS-L1A	SPC	125G	PROVIDE SHUNT TRIP BREAKER
PS	1			120	1	LP-L1C	FR	1/2"C.2#12 & #12G	
EH-1	.38			120	1	LP-CH1B	FR	1/2"C.2#12 & #12G	
EH-2	.38			120	1	LP-CH1B	FR	1/2"C.2#12 & #12G	
CP-1	1/2			120	1	LP-L1D	FR	1/2"C.2#12 & #12G	AQUARIUM
CP-2	1/2			120	1	LP-L1D	FR	1/2"C.2#12 & #12G	AQUARIUM

EQUIPMENT CONNECTION DESIGNATIONS LEGEND					
DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
AC	AIR CONDITIONING UNIT	FP	FOUNTAIN PUMP	PB	PARKING BOOTH
ACC	AIR COOLED CONDENSER	FPB	FAN POWER BOX	PS	PROJECTION SCREEN
B	BOILER	FSD	FIRE/SMOKE DAMPER	REF	REFRIGERATOR
COP	COPIER	GD	GARBAGE DISPOSAL	SD	SMOKE DAMPER
CP	CIRCULATING PUMP	GS	GRAPHIC SIGNAGE	SE	SEWAGE EJECTOR
CU	CONDENSING UNIT	HP	HEAT PUMP	SF	SUPPLY FAN
DWBP	DOM.WATER BOOSTER PUMP	IH	INSTANT HOT WATER HEATER	VM	VENDING MACHINE
EC	EVAPORATIVE CONDENSER	JP	JOCKEY PUMP	TYPE DP	DUPLEX PUMP
EF	EXHAUST FAN	JWH	JACKET WATER HEATER	TYPE FR	FRACTIONAL HP MOTOR
EH	ELECTRIC HEATER	MCS	MOTOR CONNECTION SCHEDULE	TYPE FWS	FURNISHED WITH STARTER
ELEV	ELEVATOR	MD	MOTORIZED DOOR OR GATE	TYPE M	MOTOR WITH STARTER
ESP	ELEVATOR SUMP PUMP	MS	MOTORIZED SHADE	TYPE SPC	SINGLE POINT CONNECTION
EWH	ELECTRIC WATER HEATER	MW	MICROWAVE OVEN	TYPE VFD	VARIABLE FREQUENCY DRIVE
FCU	FAN COIL UNIT	P	PUMP		

MOTOR CONNECTION SCHEDULE: 208V-3 PHASE

HP	SWITCH AMPS	FUSE AMPS	BRANCH CIRCUIT	STARTER SIZE NEMA
1/2	30	2.5	15G	1
3/4	30	3.5	15G	1
1	30	5	15G	1
1 1/2	30	7	15G	1
2	30	9	15G	1
3	30	15	20G	1
5	30	20	30G	1
7 1/2	60	30	40G	2
10	60	40	50G	3
15	60	60	70G	3
20	100	80	80G	3
25	100	90	100G	4
30	200	110	125G	4
40	200	150	175G	5
50	200	175	200G	5
60	200	200	225G	5
75	400	250	300G	6
100	400	350	400G	6
125	600	450	450G	6
150	600	500	600G	6

REFER TO WIRING SCHEDULE FOR BRANCH CIRCUIT REQUIREMENTS

PANEL: LP-L1C (SECTION 2)												
MAIN: MLO		120/208V, 3 PHASE-4 WIRE						SURFACE MOUNTED				
		BUS AMPACITY: 400A						22,000 AIC SYMMETRICAL				
TYP	DESCRIPTION	DEVICE	LOAD/PHASE (VA)						TYP	DESCRIPTION		
			A	B	C	A	B	C				
S	SPARE	20/1 43					540				R	STORYTIME
S	SPARE	20/1 45					360				R	STORYTIME
S	SPARE	20/1 47					360				R	STORYTIME
S	SPARE	20/1 49					2,300				R	HAND DRYER
S	SPARE	20/1 51					2,300				R	HAND DRYER
S	SPARE	20/1 53					720				R	W.C., CHILD PICTURE BOOKS
S	SPARE	20/1 55					720				R	CHILDREN'S GROUP STUDY
S	SPARE	20/1 57					900				R	CHILDREN'S GROUP STUDY
S	SPARE	20/1 59					900				R	CHILDREN'S GROUP STUDY
S	SPARE	20/1 61					900				R	CHILDREN'S GROUP STUDY
S	SPARE	20/1 63					540				R	CHILDREN'S COLLECTION
S	SPARE	20/1 65					540				R	CHILDREN'S COLLECTION
S	SPARE	20/1 67					100				R	IRRIGATION VALVE
S	SPARE	20/1 69					360				R	AV BOX
S	SPARE	20/1 71					540				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 73					720				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 75					300				R	ACCESS CONTROL PANEL
S	SPARE	20/1 77					300				R	INTRUSION PANEL
S	SPARE	20/1 79					300				R	CCTV PANEL
S	SPARE	20/1 81					540				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 83					540				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 85					180				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 87					180				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 89					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 91					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 93					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 95					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 97					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 99					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 101					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 103					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 105					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 107					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 109					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 111					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 113					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 115					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 117					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 119					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 121					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 123					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 125					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 127					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 129					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 131					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 133					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 135					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 137					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 139					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 141					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 143					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 145					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 147					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 149					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 151					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 153					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 155					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 157					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 159					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 161					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 163					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 165					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 167					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 169					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 171					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 173					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 175					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 177					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 179					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 181					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 183					3,780				R	UNDERFLOOR DUCT PRESET
S	SPARE	20/1 185					5,360				R	UNDERFLOOR DUCT PRESET
S	SPARE											

PANEL: LP-CH1B		120/208V, 3 PHASE-4 WIRE												SURFACE MOUNTED	
MAIN: MLO		BUS AMPACITY: 125A												30,000 AIC SYMMETRICAL	
CIRCUIT	DESCRIPTION	DEVICE	LOAD/PHASE (VA)				CIRCUIT	DESCRIPTION	CIRCUIT	LOAD/PHASE (VA)				CIRCUIT	DESCRIPTION
			A	B	C					A	B	C			
M EF-5		20/1	1	528				2	30/2	2	EW-1 (WOMENS)	E			
M EF-6		20/1	3		528			4	30/2	4	EW-1 (MENS)	E			
M EF-7		20/1	5			528		6	30/2	6	EW-1 (MENS)	E			
M FC-4		15/2	7	55				8	30/2	8	EW-3 (JANITOR)	E			
M			9		55			10	60/2	10		E			
M FC-5		15/2	11			55		12	30/2	12		E			
M			13				300		14	20/1	BMS	E			
M HP-6		20/2	15		1,456			16	20/1	BMS	E				
M			17			1,456		18	20/1	BMS	E				
M HP-7		20/2	19		1,456		300		20	20/1	BMS	E			
M			21			1,456		22	20/1	EH-1	M				
M EF-8		20/1	23				896		23	20/1	EH-2	M			
F FOUNTAIN VAULT		20/1	25		300			26	20/1	SPARE	E				
R ROOF MECHANICAL AREA		20/1	27		360			28	20/1	SPARE	E				
R ROOF MECHANICAL AREA		20/1	29			360		30	20/1	SPARE	E				
M ACC-4		25/2	31		1,747			32	20/1	SPARE	E				
M			33			1,747		34	20/1	SPARE	E				
M			35					36	20/1	SPARE	E				
M			37					38	20/1	SPARE	E				
M			39					40	20/1	SPARE	E				
M			41					42	20/1	SPARE	E				
SUBTOTAL (VA)		4,141				5,602	5,995	5,178	7,456	7,456		SUBTOTAL (VA)			
TOTAL ALL PHASES (VA)		9,317				13,058				11,051				TOTAL ALL PHASES (AMPS)	
33,426										93					

LOAD SUMMARY BY TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC LOAD	CONNECTED LOAD SUMMARY
E = EQUIPMENT	19,636 VA	1.00	19,636 VA	32,928
H = ELECTRIC HEAT	0 VA	1.00	0 VA	92 AMPS
K = KITCHEN EQUIPMENT	0 VA	1.00	0 VA	
L = LIGHTING	0 VA	1.25	0 VA	
M = MOTOR	9,074 VA	1.00	9,074 VA	
M = LARGEST MOTOR	3,494 VA	1.25	4,368 VA	
R = RECEPTACLE	720 VA	1.00	720 VA	33,800 VA
				94 AMPS

INVERTER SCHEDULE: INV-L1A

VOLTAGE: 120/208V, 3PH-4W MAIN: MLO
RATING: 20KVA AIC RMS: 42,000

CIRCUIT	LOAD SERVED	DEVICE	LOAD (VA)
1	BACK OF HOUSE/WORKROOM	20A/1P	1435
2	STAIR 3	20A/1P	325
3	LOBBY/CIRCULATION DESK	20A/1P	1190
4	CHILDRENS' PICTURE BOOKS	20A/1P	480
5	EXTERIOR LIGHTING	20A/1P	315
6	1ST FLOOR SEATING	20A/1P	1110
7	BROWNS STACKS	20A/1P	1155
8	CHILDRENS' COLLECTION	20A/1P	1365
9	CHILDRENS' COLLECTION	20A/1P	1560
10	STAIR 2	20A/1P	325
11	EAST WALKWAY	20A/1P	1440
12	EAST PARKING LOT	20A/1P	1180
13	SOUTH PARKING LOT	20A/1P	1260
14	SOUTH PERIMETER/COURTYARD	20A/1P	900
15	NORTH PLAZA	20A/1P	1260
16	WEST PLAZA	20A/1P	720
17	SPARE	20A/1P	
TOTAL:			16,020
AMPS:			45

INVERTER SCHEDULE: INV-L2A

VOLTAGE: 120/208V, 1PH-3W MAIN: MLO
RATING: 16.7KVA AIC RMS: 22,000

CIRCUIT	LOAD SERVED	DEVICE	LOAD (VA)
1	BACK OF HOUSE AREAS	20A/1P	1050
2	YOUNG ADULTS	20A/1P	1440
3	REF DESK/GROUP STUDY	20A/1P	680
4	FICTION SECTION	20A/1P	1440
5	FICTION/REF SHELVING	20A/1P	1560
6	REF SHELVING	20A/1P	1200
7	REF SHELVING	20A/1P	1200
8	MAGAZINES/CWA/INTL SHELVING	20A/1P	1440
9	REF/RESTROOMS	20A/1P	1410
10	NON FICTION SHELVING	20A/1P	960
11	NON FICTION SHELVING	20A/1P	1440
12	NON FICTION SHELVING	20A/1P	960
13	NON FICTION SHELVING	20A/1P	960
14	CORRIDOR	20A/1P	840
15	SPARE	20A/1P	
TOTAL:			16,580
AMPS:			47

INVERTER SCHEDULE: INV-CH1A

VOLTAGE: 120V, 1PH-2W MAIN: MLO
RATING: 6KVA AIC RMS: 30,000

CIRCUIT	LOAD SERVED	DEVICE	LOAD (VA)
1	ARCADE LIGHTING	20A/1P	900
2	ARCADE LIGHTING	20A/1P	810
3	SPARE	20A/1P	
4	SPARE	20A/1P	
5	NORTH WEST PLAZA	20A/1P	720
6	COMMUNITY HALL PERIMETER	20A/1P	1080
7	LOBBY/RESTROOMS	20A/1P	915
8	SPARE	20A/1P	
9	SPARE	20A/1P	
TOTAL:			4,425
AMPS:			37

PANEL: LP-L2C (SECTION 2)		120/208V, 3 PHASE-4 WIRE												SURFACE MOUNTED				
MAIN: MLO		BUS AMPACITY: 400A												22,000 AIC SYMMETRICAL				
CIRCUIT	DESCRIPTION	DEVICE	LOAD/PHASE (VA)				CIRCUIT	DESCRIPTION	CIRCUIT	LOAD/PHASE (VA)				CIRCUIT	DESCRIPTION			
			A	B	C					A	B	C						
SPARE		20/1	43				44	20/1	NON-FICTION SHELVING	R					45	20/1	NON-FICTION SHELVING	R
SPARE		20/1	45				46	20/1	NON-FICTION SHELVING	R					47	20/1	NON-FICTION SHELVING	R
SPARE		20/1	47				48	20/1	NON-FICTION SHELVING	R					49	20/1	NON-FICTION SHELVING	R
SPARE		20/1	49				50	20/1	NON-FICTION SHELVING	R					51	20/1	NON-FICTION SHELVING	R
SPARE		20/1	51				52	20/1	NON-FICTION SHELVING	R					53	20/1	NON-FICTION SHELVING	R
SPARE		20/1	53				54	20/1	NON-FICTION SHELVING	R					55	20/1	NON-FICTION SHELVING	R
SPACE		20/1	55				56	20/1	NON-FICTION SHELVING	R					57	20/1	NON-FICTION SHELVING	R
SPACE		20/1	57				58	20/1	NON-FICTION SHELVING	R					59	20/1	NON-FICTION SHELVING	R
SPACE		20/1	59				60	20/1	NON-FICTION SHELVING	R					61	20/1	NON-FICTION SHELVING	R
SPACE		20/1	61				62	20/1	NON-FICTION SHELVING	R					63	20/1	NON-FICTION SHELVING	R
SPACE		20/1	63				64	20/1	NON-FICTION SHELVING	R					65	20/1	NON-FICTION SHELVING	R
SPACE		20/1	65				66	20/1	NON-FICTION SHELVING	R					67	20/1	NON-FICTION SHELVING	R
SPACE		20/1	67				68	20/1	NON-FICTION SHELVING	R					69	20/1	NON-FICTION SHELVING	R
SPACE		20/1	69				70	20/1	NON-FICTION SHELVING	R					71	20/1	NON-FICTION SHELVING	R
SPACE		20/1	71				72	20/1	NON-FICTION SHELVING	R					73	20/1	NON-FICTION SHELVING	R
SPACE		20/1	73				74	20/1	NON-FICTION SHELVING	R					75	20/1	NON-FICTION SHELVING	R
SPACE		20/1	75				76	20/1	NON-FICTION SHELVING	R					77	20/1	NON-FICTION SHELVING	R
SPACE		20/1	77				78	20/1	NON-FICTION SHELVING	R					79	20/1	NON-FICTION SHELVING	R
SPACE		20/1	79				80	20/1	NON-FICTION SHELVING	R					81	20/1	NON-FICTION SHELVING	R
SPACE		20/1	81				82	20/1	NON-FICTION SHELVING	R					83	20/1	NON-FICTION SHELVING	R
L LIGHTING INVERTER		70/2	83				8,350			84	20/1	SPARE	E					
SUBTOTAL (VA)		8,350				8,350	3,780	4,320	3,920	3,920		SUBTOTAL (VA)						
TOTAL ALL PHASES (VA)		16,700				12,670				12,670				TOTAL ALL PHASES (AMPS)				
28,720										80								

LOAD SUMMARY BY TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC LOAD	CONNECTED LOAD SUMMARY
E = EQUIPMENT	13,696 VA	1.00	13,696 VA	17,328
H = ELECTRIC HEAT	0 VA	1.00	0 VA	48 AMPS
K = KITCHEN EQUIPMENT	0 VA	1.00	0 VA	
L = LIGHTING	484 VA	1.25	605 VA	
M = MOTOR	3,148 VA	1.00	3,148 VA	
M = LARGEST MOTOR	0 VA	1.25	0 VA	
R = RECEPTACLE	0 VA	1.00	0 VA	
				48 AMPS

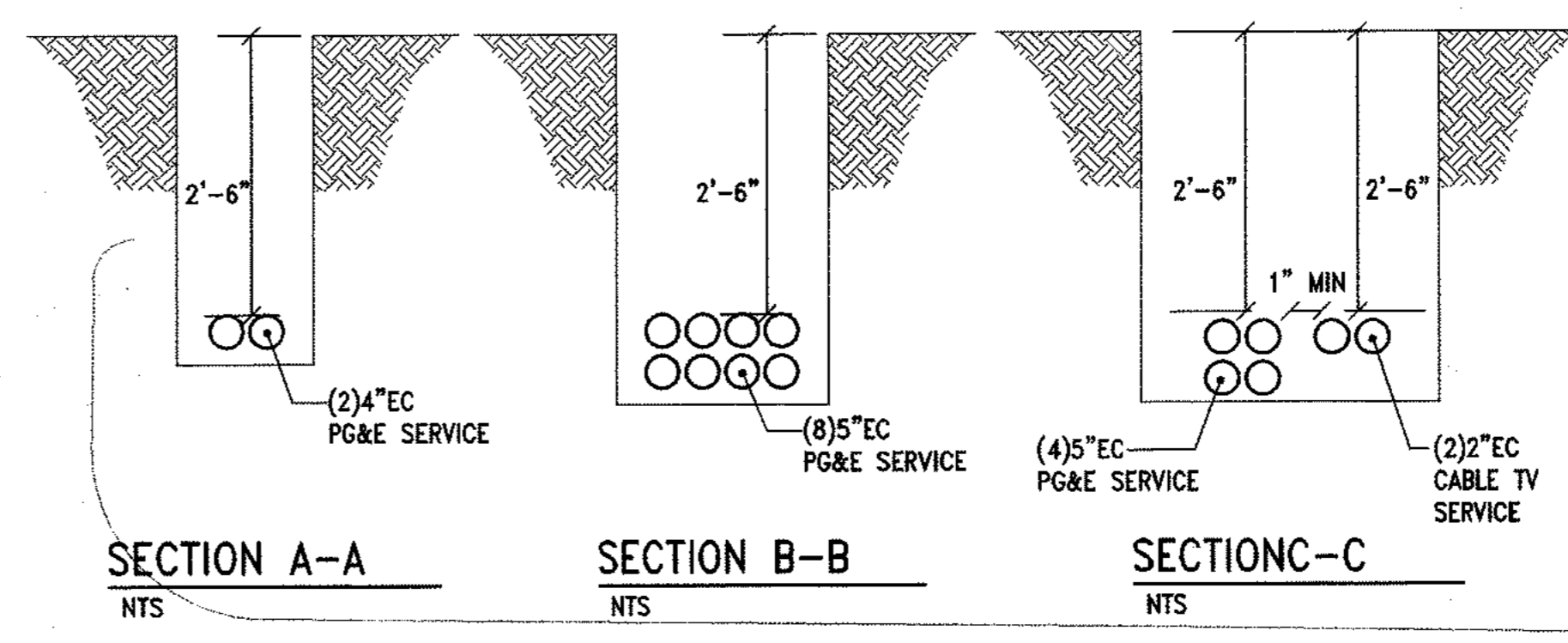
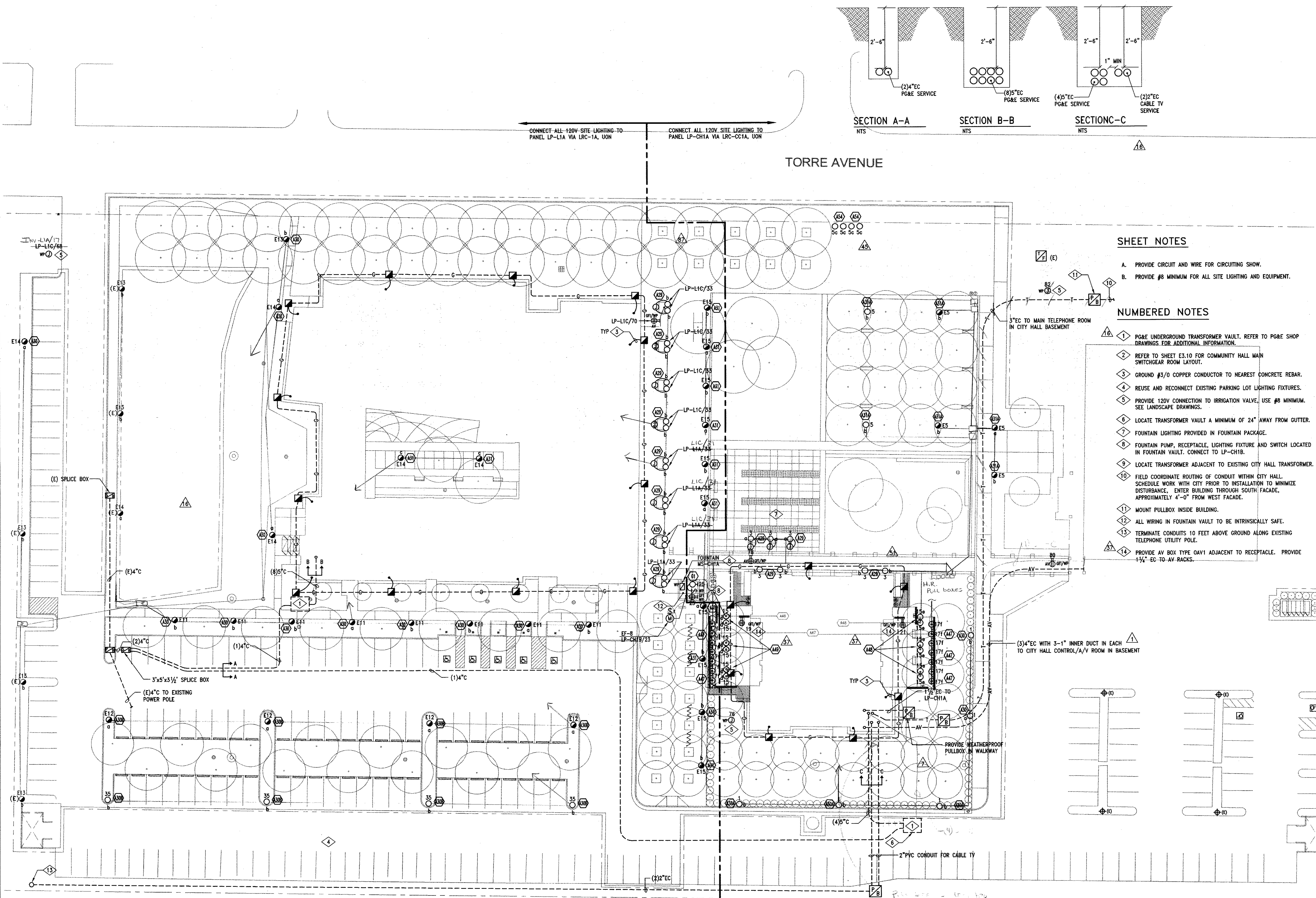
INVERTER SCHEDULE: INV-L2B

VOLTAGE: 120/208V, 3 PHASE-4 WIRE MAIN: MLO
RATING: 225A AIC RMS: 42,000

CIRCUIT	LOAD SERVED	DEVICE	LOAD (VA)
1	BACK OF HOUSE/WORKROOM	20A/1P	1435
2	STAIR 3	20A/1P	325
3	LOBBY/CIRCULATION DESK	20A/1P	1190
4	CHILDRENS' PICTURE BOOKS	20A/1P	480
5	EXTERIOR LIGHTING	20A/1P	315
6	1ST FLOOR SEATING	20A/1P	1110
7	BROWNS STACKS	20A/1P	1155
8	CHILDRENS' COLLECTION	20A/1P	1365
9	CHILDRENS' COLLECTION	20A/1P	1560
10	STAIR 2	20A/1P	325
11	EAST WALKWAY	20A/1P	1440
12	EAST PARKING LOT	20A/1P	1180
13	SOUTH PARKING LOT	20A/1P	1260
14	SOUTH PERIMETER/COURTYARD	20A/1P	900
15	NORTH PLAZA	20A/1P	1260
16	WEST PLAZA	20A/1P	720
17	SPARE	20A/1P	
TOTAL:			16,020
AMPS:			45

PANEL: LP-L2B (SECTION 1)		120/208V, 3 PHASE-4 WIRE												SURFACE MOUNTED					
MAIN: MLO		BUS AMPACITY: 400A												30,000 AIC SYMMETRICAL					
CIRCUIT	DESCRIPTION	DEVICE	LOAD/PHASE (VA)				CIRCUIT	DESCRIPTION	CIRCUIT	LOAD/PHASE (VA)				CIRCUIT	DESCRIPTION				
			A	B	C					A	B	C							
L NORTH/EAST PLAZA		20/1	1	1,050				2	20/1	HANDICAP DOOR OPERATOR	E					3	20/1	CONV.	R
L ENTRY PLAZA		20/1	3		840			4	20/1	CONV.	R					5	20/1	LOBBY A/V, EXTERIOR	R
L WEST PLAZA/SIGNAGE		20/1	5			840		6	20/1	HAND DRYER	E					7	20/1	HAND DRYER	E
L BACK HOUSE		20/1	7			945		8	20/1	HAND DRYER	E					9	20/1	HAND DRYER	E
L LOBBY/RESTROOMS		20/1	9			1,195		10	20/1	HAND DRYER	E					11	20/1	HAND DRYER	E
L EXIT SIGNS/BATTERY PACKS		20/1	11			300		12	20/1	MEETING ROOM A/V	R					13	20/1	MEETING ROOM A/V	R
L LRC-CH1A		20/1	13			180		14	20/1	MEETING ROOM A/V, EXTERIOR	R					15	20/1	MEETING ROOM FLOOR BOX	R
L PATIO		20/1	15			600		16	20/1	MEETING ROOM FLOOR BOX	R					17	20/1	MEETING ROOM FLOOR BOX	R
R AV BOX - PATIO		20/1	17			700		18	20/1	MEETING ROOM A/V	R					19	20/1	MEETING ROOM A/V	R
R AV BOX - PATIO		20/1	19			180		20	20/1	MEETING ROOM A/V	R					21	20/1	MEETING ROOM A/V	R
R AV BOX - PATIO		20/1	21			180		22	20/1	MEETING ROOM A/V	R					23	20/1	MEETING ROOM A/V	R
E LCD MONITOR		20/1	23			700		24	20/1	MEETING ROOM A/V, EXTERIOR	R					25	20/1	MEETING ROOM A/V	R
R OFFICE		20/1	25			360		26	20/1	DIAS A/V FLOOR BOX	R					27	20/1	DIAS A/V	R
E HANDICAP DOOR OPERATOR		20/1	27			500		28	20/1	DIAS A/V	R					29	20/1	DIAS A/V	R
E HANDICAP DOOR OPERATOR		20/1	29			500		30	20/1	DIAS A/V	R					31	20/1	DIAS A/V	R
E DASH TABLE MOTOR		20/3	31			804		32	20/1	LIGHTING RACK	E					33	20/1	CONF. ROOM, CAMERA	R
E			33			804		34	20/1	CONF. ROOM, CAMERA	R					35	20/1	A/V RACK	R
E			35			804		36	20/1	A/V RACK	R					37	20/1	A/V RACK	R
E			37			804		38	20/1	A/V RACK	R					39			

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SHEET NOTES

- A. PROVIDE CIRCUIT AND WIRE FOR CIRCUITING SHOW.
- B. PROVIDE #8 MINIMUM FOR ALL SITE LIGHTING AND EQUIPMENT.

NUMBERED NOTES

- 1 PG&E UNDERGROUND TRANSFORMER VAULT. REFER TO PG&E SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 REFER TO SHEET E3.10 FOR COMMUNITY HALL MAIN SWITCHGEAR ROOM LAYOUT.
- 3 GROUND #3/0 COPPER CONDUCTOR TO NEAREST CONCRETE REBAR.
- 4 REUSE AND RECONNECT EXISTING PARKING LOT LIGHTING FIXTURES.
- 5 PROVIDE 120V CONNECTION TO IRRIGATION VALVE. USE #8 MINIMUM. SEE LANDSCAPE DRAWINGS.
- 6 LOCATE TRANSFORMER VAULT A MINIMUM OF 24" AWAY FROM GUTTER.
- 7 FOUNTAIN LIGHTING PROVIDED IN FOUNTAIN PACKAGE.
- 8 FOUNTAIN PUMP, RECEPTACLE, LIGHTING FIXTURE AND SWITCH LOCATED IN FOUNTAIN VAULT. CONNECT TO LP-CH1B.
- 9 LOCATE TRANSFORMER ADJACENT TO EXISTING CITY HALL TRANSFORMER.
- 10 FIELD COORDINATE ROUTING OF CONDUIT WITHIN CITY HALL. SCHEDULE WORK WITH CITY PRIOR TO INSTALLATION TO MINIMIZE DISTURBANCE. ENTER BUILDING THROUGH SOUTH FACADE, APPROXIMATELY 4'-0" FROM WEST FACADE.
- 11 MOUNT PULLBOX INSIDE BUILDING.
- 12 ALL WIRING IN FOUNTAIN VAULT TO BE INTRINSICALLY SAFE.
- 13 TERMINATE CONDUITS 10 FEET ABOVE GROUND ALONG EXISTING TELEPHONE UTILITY POLE.
- 14 PROVIDE AV BOX TYPE OAV1 ADJACENT TO RECEPTACLE. PROVIDE 1/2" EC TO AV RACKS.

(3) 4" EC WITH 3-1" INNER DUCT IN EACH TO CITY HALL CONTROL/A/V ROOM IN BASEMENT

PROVIDE WEATHERPROOF PULLBOX IN WALKWAY

2" PVC CONDUIT FOR CABLE TV

SITE PLAN
1/2"=20'-0"

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916 435 2400 T
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Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Ebesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415 798 3833 T
415 433 5311 F

Architectural
Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

Revisions	Date	Description
2	2003.05.30	ADDENDUM NO. 2
3	2003.09.11	CCD NO. 5
4	2003.10.17	CCD NO. 14
5	2004.02.13	CCD NO. 35
6	2003.03.19	CCD NO. 43
7	2004.04.13	CCD NO. 49R1
8	2004.08.03	CCD NO. 85

11-29-04 Updated Contract Documents

stamp _____

issue _____

sheet title _____

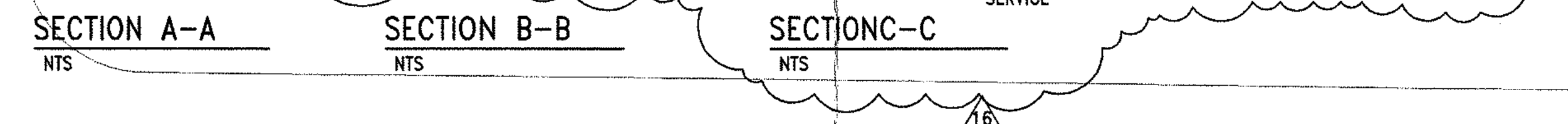
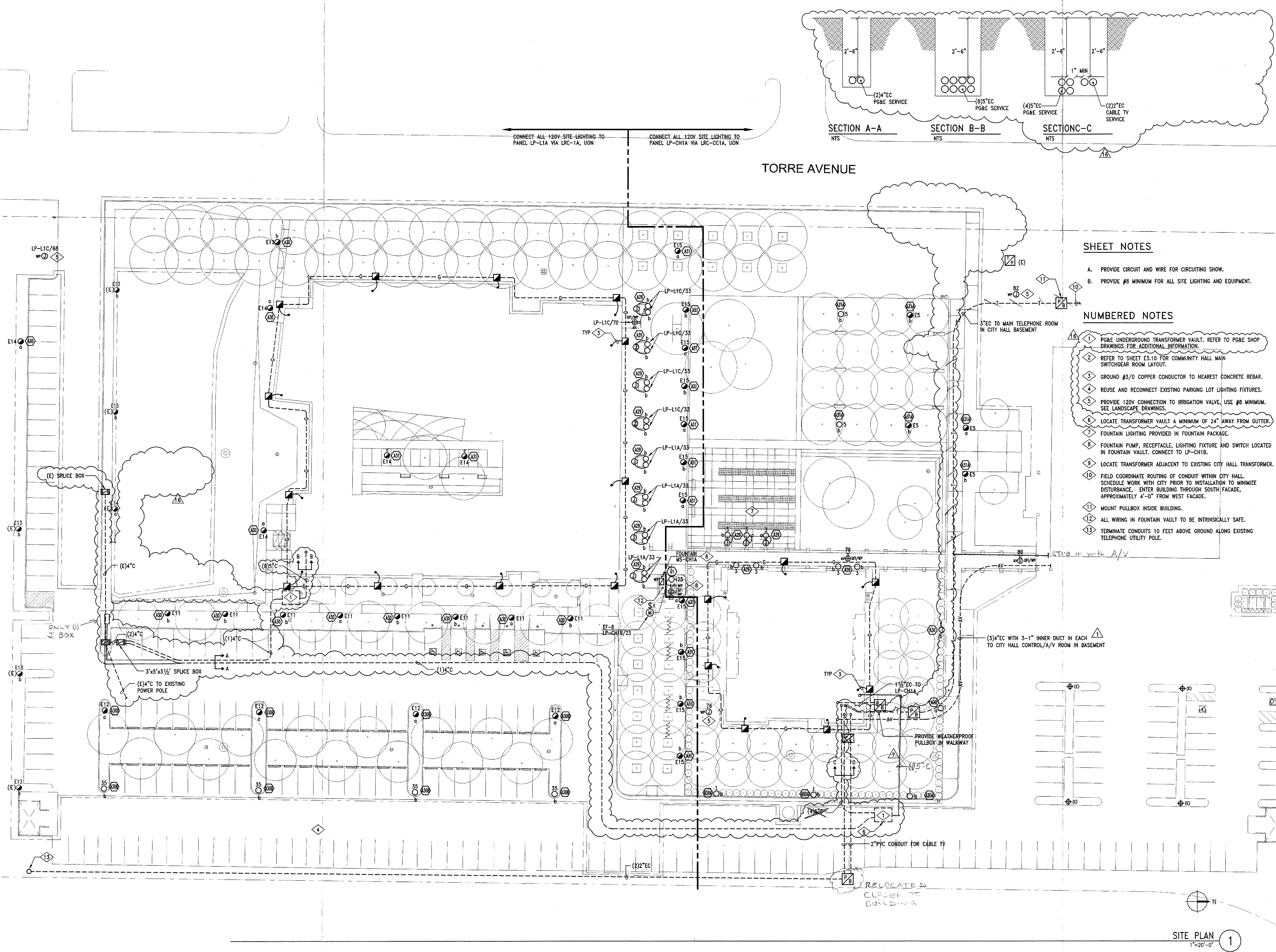
BID SET

ELECTRICAL
SITE PLAN

scale 1/2"=20'-0" date 2003.04.18
drawn by LL project number 01.03770.00
sheet number

E1.10

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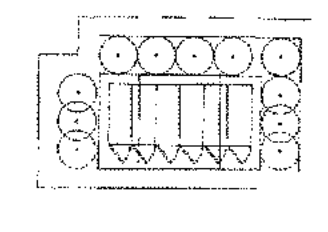


SHEET NOTES

- A. PROVIDE CIRCUIT AND WIRE FOR CIRCUITING SHOW.
- B. PROVIDE #8 MINIMUM FOR ALL SITE LIGHTING AND EQUIPMENT.

NUMBERED NOTES

- 1 PG&E UNDERGROUND TRANSFORMER VAULT. REFER TO PG&E SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 REFER TO SHEET E3.10 FOR COMMUNITY HALL MAIN SWITCHGEAR ROOM LAYOUT.
- 3 GROUND #3/0 COPPER CONDUCTOR TO NEAREST CONCRETE REBAR.
- 4 REUSE AND RECONNECT EXISTING PARKING LOT LIGHTING FIXTURES.
- 5 PROVIDE 120V CONNECTION TO IRRIGATION VALVE, USE #8 MINIMUM. SEE LANDSCAPE DRAWINGS.
- 6 LOCATE TRANSFORMER VAULT A MINIMUM OF 24" AWAY FROM GUTTER.
- 7 FOUNTAIN LIGHTING PROVIDED IN FOUNTAIN PACKAGE.
- 8 FOUNTAIN PUMP, RECEPTACLE, LIGHTING FIXTURE AND SWITCH LOCATED IN FOUNTAIN VAULT. CONNECT TO LP-CH1B.
- 9 LOCATE TRANSFORMER ADJACENT TO EXISTING CITY HALL TRANSFORMER.
- 10 FIELD COORDINATE ROUTING OF CONDUIT WITHIN CITY HALL. SCHEDULE WORK WITH CITY PRIOR TO INSTALLATION TO MINIMIZE DISTURBANCE. ENTER BUILDING THROUGH SOUTH FACADE, APPROXIMATELY 4'-0" FROM WEST FACADE.
- 11 MOUNT PULLBOX INSIDE BUILDING.
- 12 ALL WIRING IN FOUNTAIN VAULT TO BE INTRINSICALLY SAFE.
- 13 TERMINATE CONDUITS 10 FEET ABOVE GROUND ALONG EXISTING TELEPHONE UTILITY POLE.



SITE PLAN 1
1"=20'-0"

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Associates
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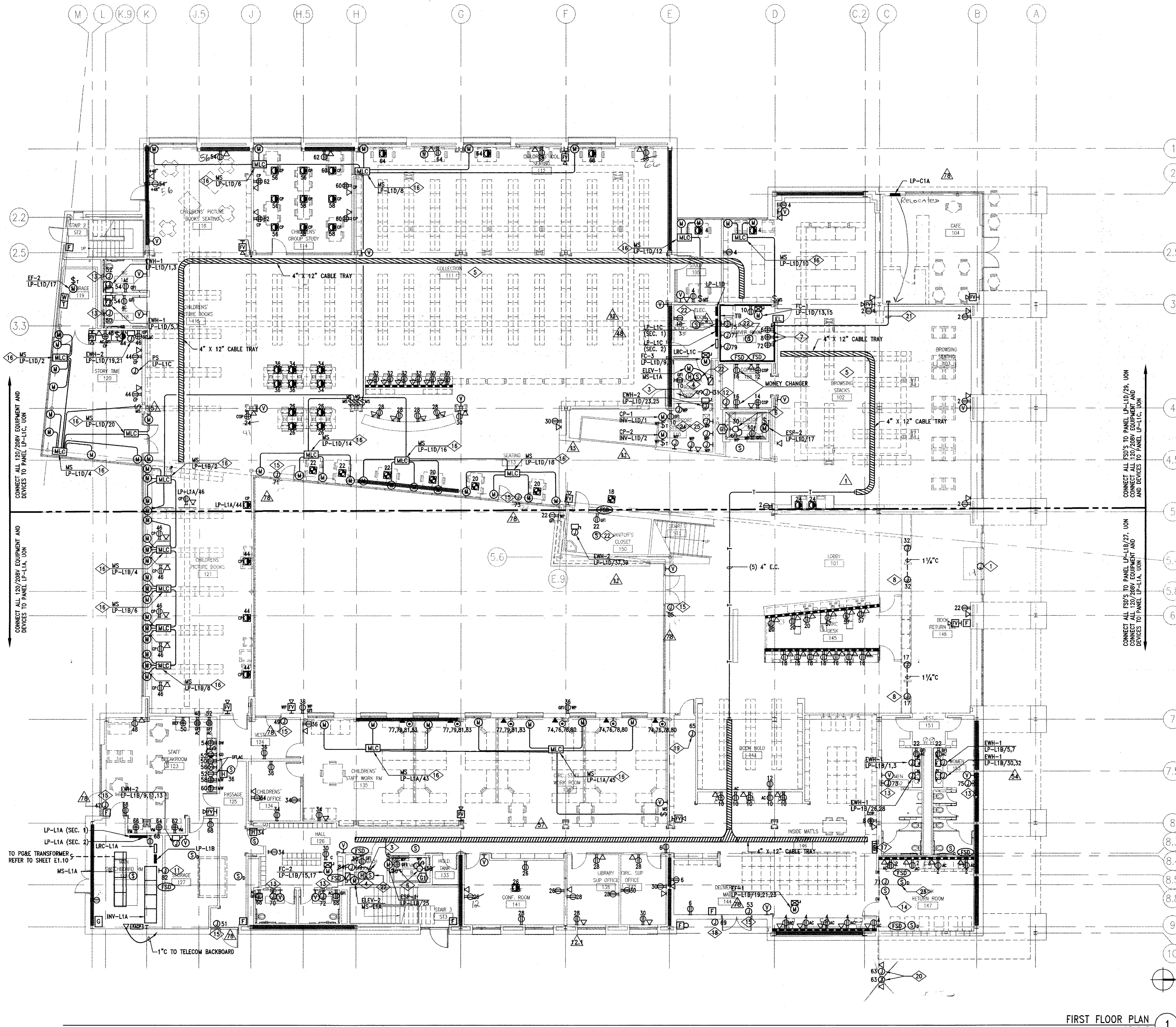
Revisions	2003.05.30	ADDENDUM NO. 2
△	2003.09.11	CCD NO. 5
△	2003.10.17	CCD NO. 14

Stamp	Issue	Sheet Title
		BID SET

ELECTRICAL SITE PLAN

Scale: 1"=20'-0" Date: 2003.04.18
Drawn by: LL Project number: 01.03770.00
Sheet number

E1.10



FIRST FLOOR PLAN
1/8"=1'-0" 1

SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL OUTLETS WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING SHOWING.
- C. REFER TO SHEET E2.10A FOR UNDERFLOOR DUCT SYSTEM LAYOUT.

NUMBERED NOTES

- 1 PROVIDE 120V CONNECTION TO AUTOMATIC DOOR.
- 2 PROVIDE 120V CONNECTION TO OVERHEAD COILING DOOR.
- 3 PROVIDE 120V POWER FOR ELEVATOR FAN AND LIGHTS.
- 4 SHUNT TRIP ELEVATOR POWER UPON ACTIVATION OF HEAT DETECTOR PRIOR TO SPRINKLER DISCHARGE. LOCATE HEAT DETECTOR WITHIN 2' OF SPRINKLER HEAD.
- 5 REFER TO SHEET E2.10A FOR UNDERFLOOR DUCT LAYOUT.
- 6 LOCATED IN ELEVATOR PIT. CKTS. LIA-43,45,47
- 7 PROVIDE DEDICATED CIRCUITS FOR TELECOM RACKS. VERIFY MOUNTING LOCATION PRIOR TO INSTALLATION.
- 8 PROVIDE 120V/1P HARDWIRED CONNECTION TO BOOK SECURITY GATES. REFER TO SHEET E4.13, DETAIL 2 FOR ADDITIONAL INFORMATION.
- 9 PROVIDE 120V CONNECTION TO VIDEO PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 10 NOT USED.
- 11 PROVIDE 120V CONNECTION FOR BMS.
- 12 PROVIDE 120V CONNECTION FOR MONEY CHANGER.
- 13 PROVIDE DEDICATED 120V HARD WIRED CONNECTION TO SEMI-RECESSED HAND DRYER.
- 14 SMOKE DETECTOR FOR ACTIVATION OF ROLL-DOWN FIRE DOOR.
- 15 PROVIDE 120V CONNECTION FOR HANDICAP DOOR OPERATION. CONTRACTOR TO PROVIDE CONTROL WIRING TO OPERATORS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 16 CONTRACTOR TO PRICE MOTORIZED SHADES AND ALL ASSOCIATED MATERIALS AS ADD/ALTERNATE. REFER TO SPECIFICATION SECTION 01230-ALTERNATES FOR BIDDING INFORMATION.
- 17 MOUNT FARA RECESSED IN WALL.
- 18 PROVIDE 120V CONNECTION TO DOOR BELL. PROVIDE CONTROL WIRING TO BUZZER LOCATED IN DELIVERY & MAIL AREA.
- 19 PROVIDE 120V POWER FOR SECURITY LED ANNUNCIATOR PANEL.
- 20 PROVIDE 120V CONNECTION FOR PAYPHONES COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 21 PROVIDE 3"EC ROUTED FROM SERVER ROOM TO CAFE FOR FUTURE CAFE INSTALLATIONS.
- 22 SMOKE DETECTOR SERVING DESIGNATED ROOM SHALL BE LOCATED WITHIN 5 FEET OF FIRE SMOKE DAMPER.
- 23 PROVIDE NO FLOW DUCT SMOKE DETECTOR (MANUFACTURER RUSKIN, MODEL SYSTEM SENSOR 2151) AT THIS LOCATION.
- 24 PRIOR TO INSTALLATION REVIEW ALL MANUFACTURER'S SPECIFICATIONS AND ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT ASSOCIATED WITH THE LIFE SUPPORT SYSTEM ROOM / AQUARIUM. PROVIDE ALL REQUIRED ELECTRICAL DEVICES AND CONNECTIONS FOR A FULL OPERABLE SYSTEM. CONNECT EQUIPMENT TO PANEL LP-L1D.
- 25 EXPOSED RACEWAY WITHIN LIFE SUPPORT SYSTEM ROOM SHALL BE PVC OR LIQUID TIGHT FLEXIBLE CONDUIT.

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Hargreaves
Associates
2000 17th Street
San Francisco, CA 94103
415 865 1811 T
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Forell/Essener
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
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415 398 2823 T
415 435 5311 F

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Lighting Design
370 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

revision	date	description
△	2003.05.07	ADDENDUM NO. 1
△	2003.05.20	ADDENDUM NO. 2
△	2003.11.24	CCD No. 10.1
△	2003.12.19	CCD No. 7.2
△	2004.01.23	CCD No. 7.5
△	2004.03.12	CCD No. 4.6
△	2004.04.07	CCD No. 5.2
△	2004.04.23	CCD No. 5.5
△	2004.06.25	CCD No. 7.6

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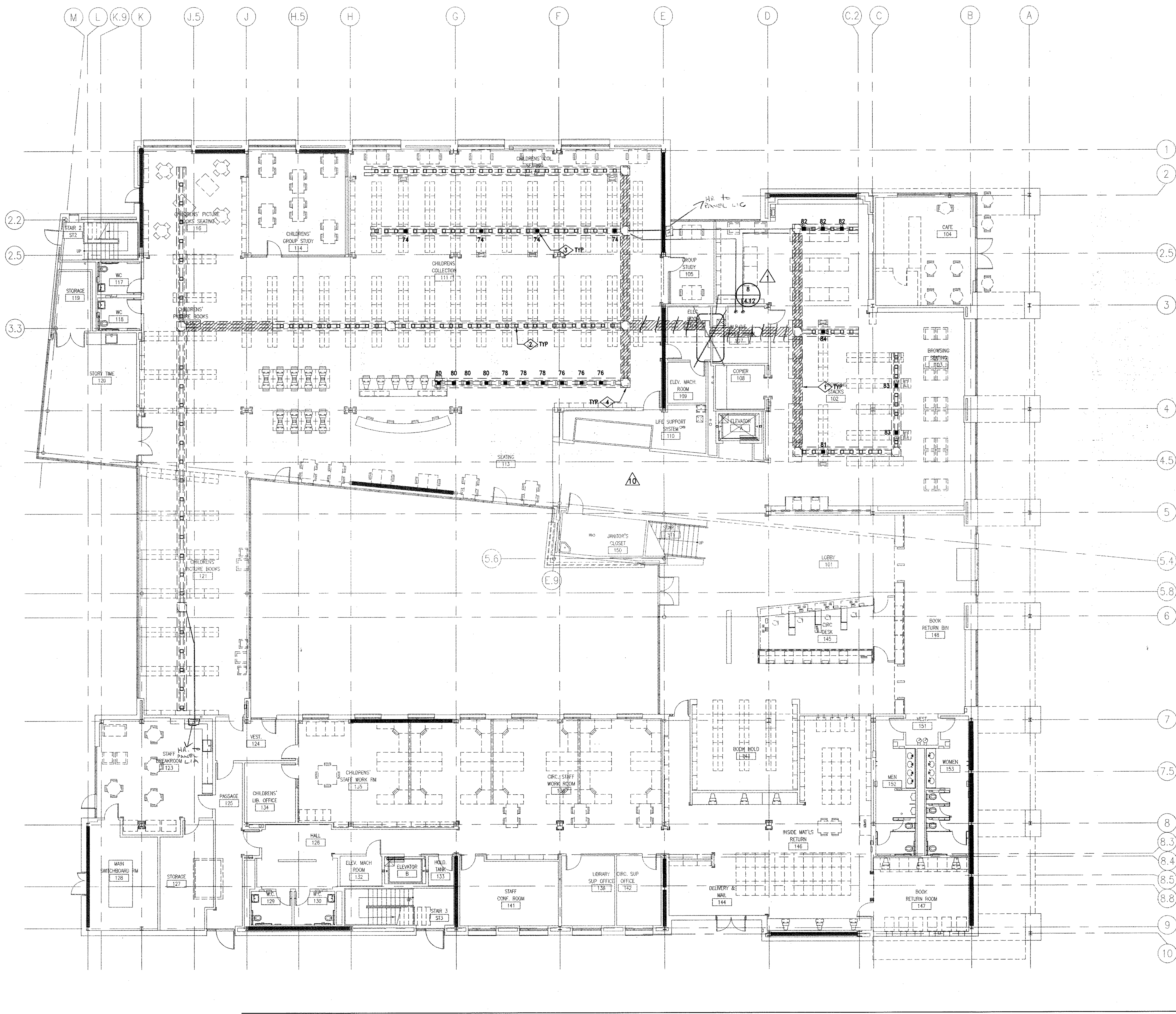
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**LIBRARY
FIRST FLOOR
POWER PLAN**

Scale: 1/8" = 1'-0" Date: 2003.04.18
Drawn by: LL Project number: 01.0377.00
Sheet number: _____

E2.10

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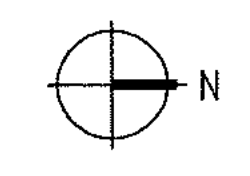
SHEET NOTES

- A. VERIFY EXACT LOCATION AND SPACING WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING SHOWN.
- C. CONNECT ALL NORMAL POWER 120/208V DEVICES TO PANEL LP-L1C, U0N.

NUMBERED NOTES

- 1 TWO BLANK UNDERFLOOR DUCT COMPARTMENTS FOR POWER AND DATA/TELEPHONE.
- 2 INACTIVATED PRESETS INSTALLED WITH MUD COVER. PRESETS INSTALLED 2'-0" ON CENTER.
- 3 ACTIVATED PRESETS FOR POWER AND DATA/TELEPHONE INSTALLED FLUSH WITH FLOOR WITH BLACK COVERPLATES. PRESETS INSTALLED 2'-0" ON CENTER.
- 4 ACCESSIBLE JUNCTION BOX WITH ROUND COVER PLATE.

FIRST FLOOR PLAN
1/8"=1'-0" 1



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916.435.2400 T
916.435.2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415.865.1811 T
415.865.1810 F

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160 Pine Street
San Francisco, CA 94111
415.837.0700 T
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405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415.238.2823 T
415.433.9311 F

Architectural Lighting Design
370 Brannan Street
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415.485.4085 T
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2003.05.07	ADDENDUM NO. 1
2003.09.26	CCD NO. 8

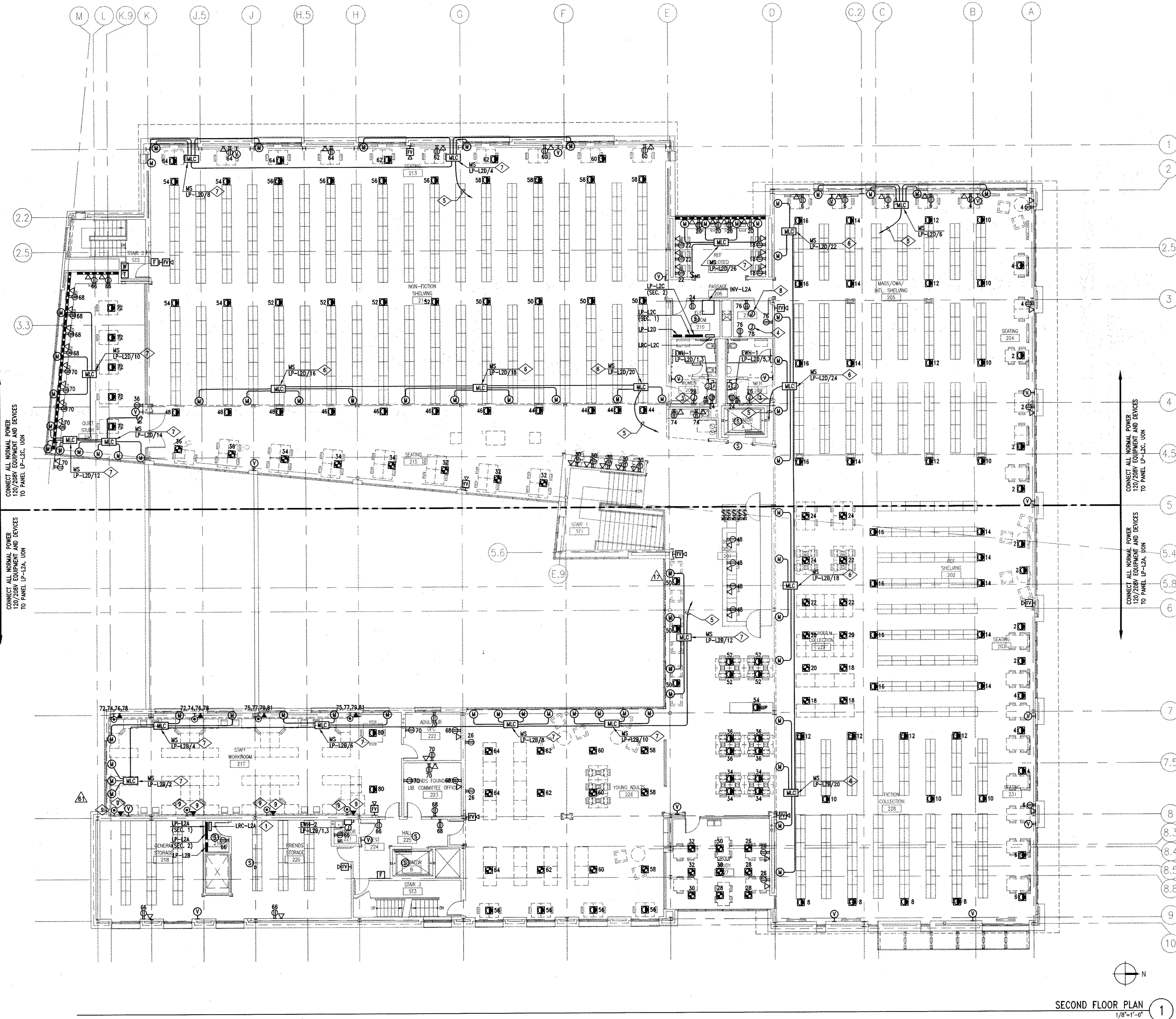
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Sheet Title	

LIBRARY FIRST FLOOR UNDERFLOOR DUCT SYSTEM

Scale: 1/8" = 1'-0" Date: 2003.04.18
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SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL OUTLETS WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING SHOWN.
- C. NO HORIZONTAL CONDUIT IN 2ND FLOOR SLAB, UON.

NUMBERED NOTES

- 1 MOUNT LRC-L2A ABOVE PANEL LP-L2A (SECTION 1).
- 2 NOT USED.
- 3 PROVIDE DEDICATED 120V HARD WIRED CONVENTION TO SEMI-RECESSED HAND DRYER.
- 4 PROVIDE 120V CONNECTION TO PA/MUSIC SYSTEM CONTROL PANEL. CONTRACTOR TO PROVIDE CONDUIT TO SPEAKER LOCATIONS THROUGHOUT LIBRARY. REFER TO AV DRAWING FOR EXACT SPEAKER LOCATIONS.
- 5 ROUTE 1/2" TO DOUBLE POLE, DOUBLE THROW SWITCH LOCATED AT REF DESK [201].
- 6 MOTORIZED SHADE FOR OPERATION OF CLERESTORY WINDOWS. REFER TO ARCHITECTURAL ELEVATIONS/WALL SECTIONS FOR ADDITIONAL INFORMATION.
- 7 CONTRACTOR TO PRICE MOTORIZED SHADES AND ALL ASSOCIATED MATERIALS AS ADD/ALTERNATE. REFER TO SPECIFICATION SECTION 01230-ALTERNATES FOR BIDDING INFORMATION.
- 8 TERMINATE 120V POWER AT JUNCTION BOX FOR FUTURE RACK LOCATION INSTALLATION.
- 9 BLANK OFF FURNITURE CONNECTIONS FOR FUTURE USE.

CONNECT ALL NORMAL POWER 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2A, UON

CONNECT ALL NORMAL POWER 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2A, UON

CONNECT ALL NORMAL POWER 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2A, UON

CONNECT ALL NORMAL POWER 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2A, UON

SECOND FLOOR PLAN
1/8"=1'-0"



1

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Redwood City, CA 94061
916.485.2400 T
916.485.2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415.885.1811 T
415.885.1810 F

Forell/Essesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415.877.0700 T
415.877.0800 F

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405 Howard Street
Suite 500
San Francisco, CA 94105-2673
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415.433.5111 F

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2004.05.05	CD No. 59

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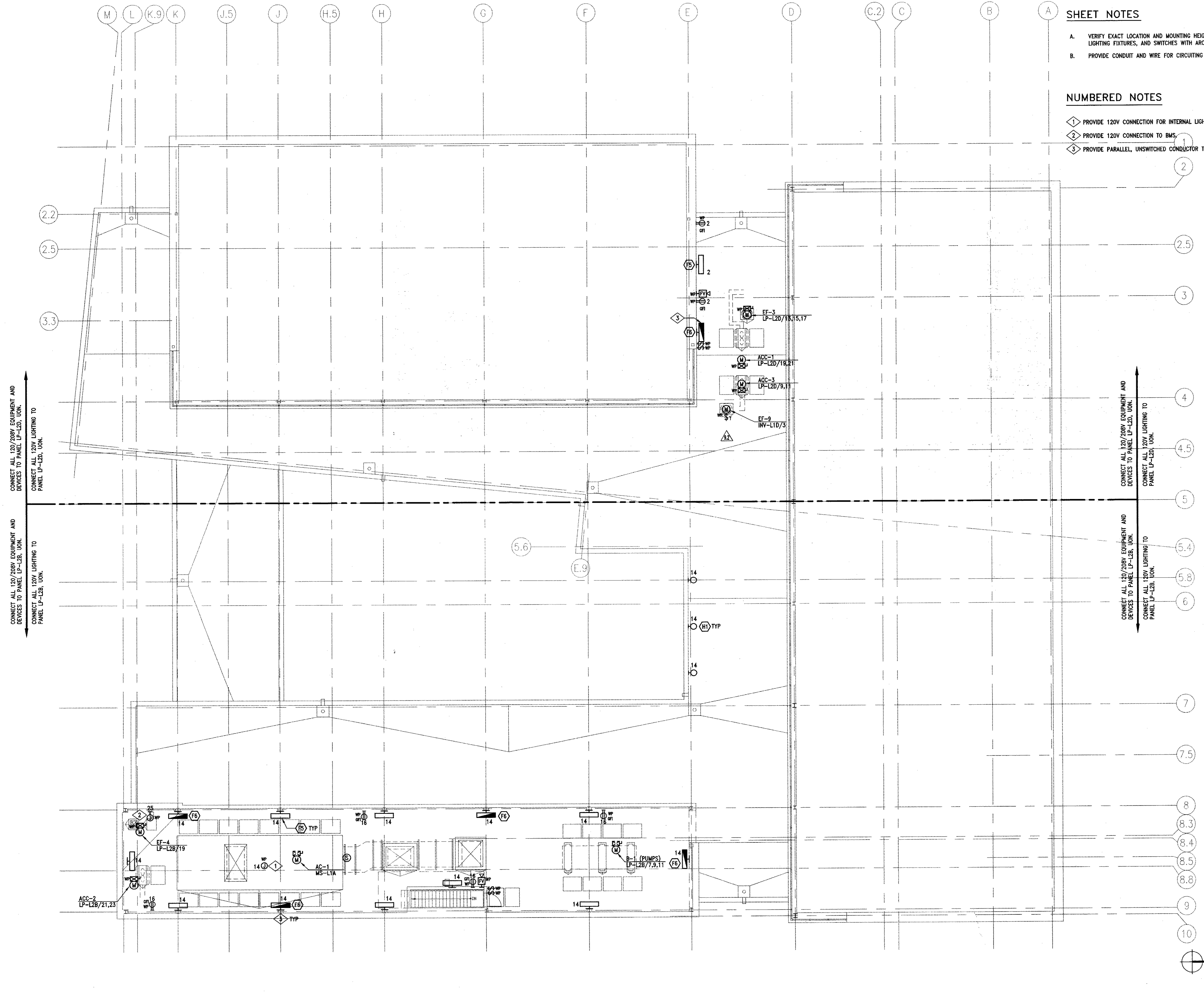
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LIBRARY
SECOND FLOOR
POWER PLAN

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SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL OUTLETS, LIGHTING FIXTURES, AND SWITCHES WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING SHOWN.

NUMBERED NOTES

- 1 PROVIDE 120V CONNECTION FOR INTERNAL LIGHTING IN AC-1 UNIT.
- 2 PROVIDE 120V CONNECTION TO BMS.
- 3 PROVIDE PARALLEL, UNSWITCHED CONDUCTOR TO BATTERY BALLAST.

CONNECT ALL 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2B, UON.
CONNECT ALL 120V LIGHTING TO PANEL LP-L2D, UON.

CONNECT ALL 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2B, UON.
CONNECT ALL 120V LIGHTING TO PANEL LP-L2B, UON.

CONNECT ALL 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2D, UON.
CONNECT ALL 120V LIGHTING TO PANEL LP-L2D, UON.

CONNECT ALL 120/208V EQUIPMENT AND DEVICES TO PANEL LP-L2B, UON.
CONNECT ALL 120V LIGHTING TO PANEL LP-L2B, UON.

- 2.2
- 2.5
- 3.3
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- 8.3
- 8.4
- 8.5
- 8.8
- 9
- 10

ROOF PLAN
1/8"=1'-0" 1

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ASSOCIATES
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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Forell/Essesser
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160 Pine Street
San Francisco, CA 94111
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Suite 500
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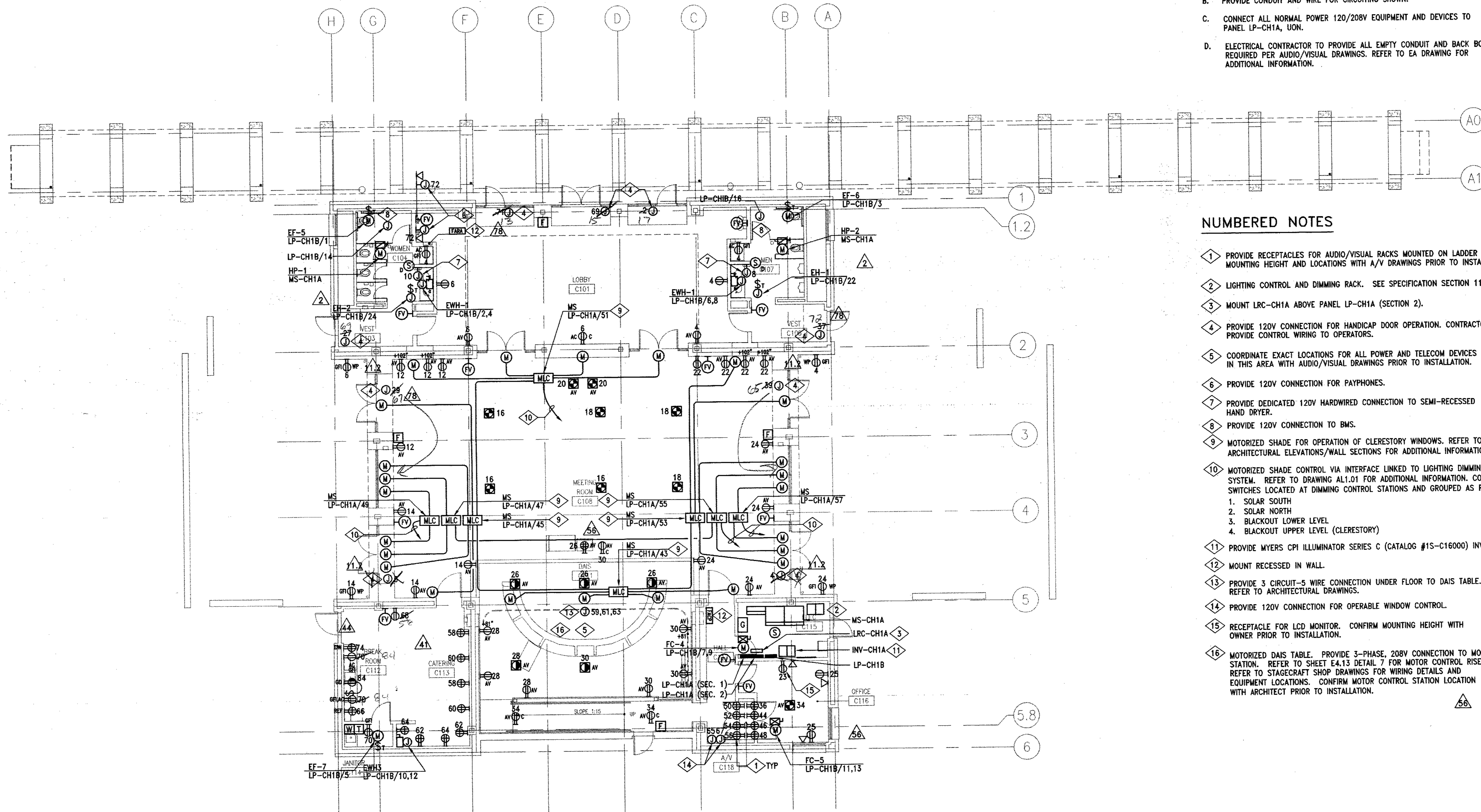
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ELECTRICAL PLAN

scale: 1/8" = 1'-0" date: 2003.04.18
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SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL OUTLETS WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING SHOWN.
- C. CONNECT ALL NORMAL POWER 120/208V EQUIPMENT AND DEVICES TO PANEL LP-CH1A, UON.
- D. ELECTRICAL CONTRACTOR TO PROVIDE ALL EMPTY CONDUIT AND BACK BOXES REQUIRED PER AUDIO/VISUAL DRAWINGS. REFER TO EA DRAWING FOR ADDITIONAL INFORMATION.

NUMBERED NOTES

- 1 PROVIDE RECEPTACLES FOR AUDIO/VISUAL RACKS MOUNTED ON LADDER RACK. VERIFY MOUNTING HEIGHT AND LOCATIONS WITH A/V DRAWINGS PRIOR TO INSTALLATION.
- 2 LIGHTING CONTROL AND DIMMING RACK. SEE SPECIFICATION SECTION 11060.
- 3 MOUNT LRC-CH1A ABOVE PANEL LP-CH1A (SECTION 2).
- 4 PROVIDE 120V CONNECTION FOR HANDICAP DOOR OPERATION. CONTRACTOR TO PROVIDE CONTROL WIRING TO OPERATORS.
- 5 COORDINATE EXACT LOCATIONS FOR ALL POWER AND TELECOM DEVICES IN THIS AREA WITH AUDIO/VISUAL DRAWINGS PRIOR TO INSTALLATION.
- 6 PROVIDE 120V CONNECTION FOR PAYPHONES.
- 7 PROVIDE DEDICATED 120V HARDWIRED CONNECTION TO SEMI-RECESSED HAND DRYER.
- 8 PROVIDE 120V CONNECTION TO BMS.
- 9 MOTORIZED SHADE FOR OPERATION OF CLERESTORY WINDOWS. REFER TO ARCHITECTURAL ELEVATIONS/WALL SECTIONS FOR ADDITIONAL INFORMATION.
- 10 MOTORIZED SHADE CONTROL VIA INTERFACE LINKED TO LIGHTING DIMMING SYSTEM. REFER TO DRAWING AL1.01 FOR ADDITIONAL INFORMATION. CONTROL SWITCHES LOCATED AT DIMMING CONTROL STATIONS AND GROUPED AS FOLLOWS:
 - 1. SOLAR SOUTH
 - 2. SOLAR NORTH
 - 3. BLACKOUT LOWER LEVEL
 - 4. BLACKOUT UPPER LEVEL (CLERESTORY)
- 11 PROVIDE MYERS CPI ILLUMINATOR SERIES C (CATALOG #15-C16000) INVERTOR SYSTEM.
- 12 MOUNT RECESSED IN WALL.
- 13 PROVIDE 3 CIRCUIT-5 WIRE CONNECTION UNDER FLOOR TO DAIS TABLE. REFER TO ARCHITECTURAL DRAWINGS.
- 14 PROVIDE 120V CONNECTION FOR OPERABLE WINDOW CONTROL.
- 15 RECEPTACLE FOR LCD MONITOR. CONFIRM MOUNTING HEIGHT WITH OWNER PRIOR TO INSTALLATION.
- 16 MOTORIZED DAIS TABLE. PROVIDE 3-PHASE, 208V CONNECTION TO MOTOR CONTROL STATION. REFER TO SHEET E4.13 DETAIL 7 FOR MOTOR CONTROL RISER DIAGRAM. REFER TO STAGECRAFT SHOP DRAWINGS FOR WIRING DETAILS AND EQUIPMENT LOCATIONS. CONFIRM MOTOR CONTROL STATION LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



FLOOR PLAN 1
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2004.01.09		CCD 9.2
2004.02.17		CCD #39
2004.03.05		CCD #42
2004.04.19		CCD #54
2004.08.25		CCD #76

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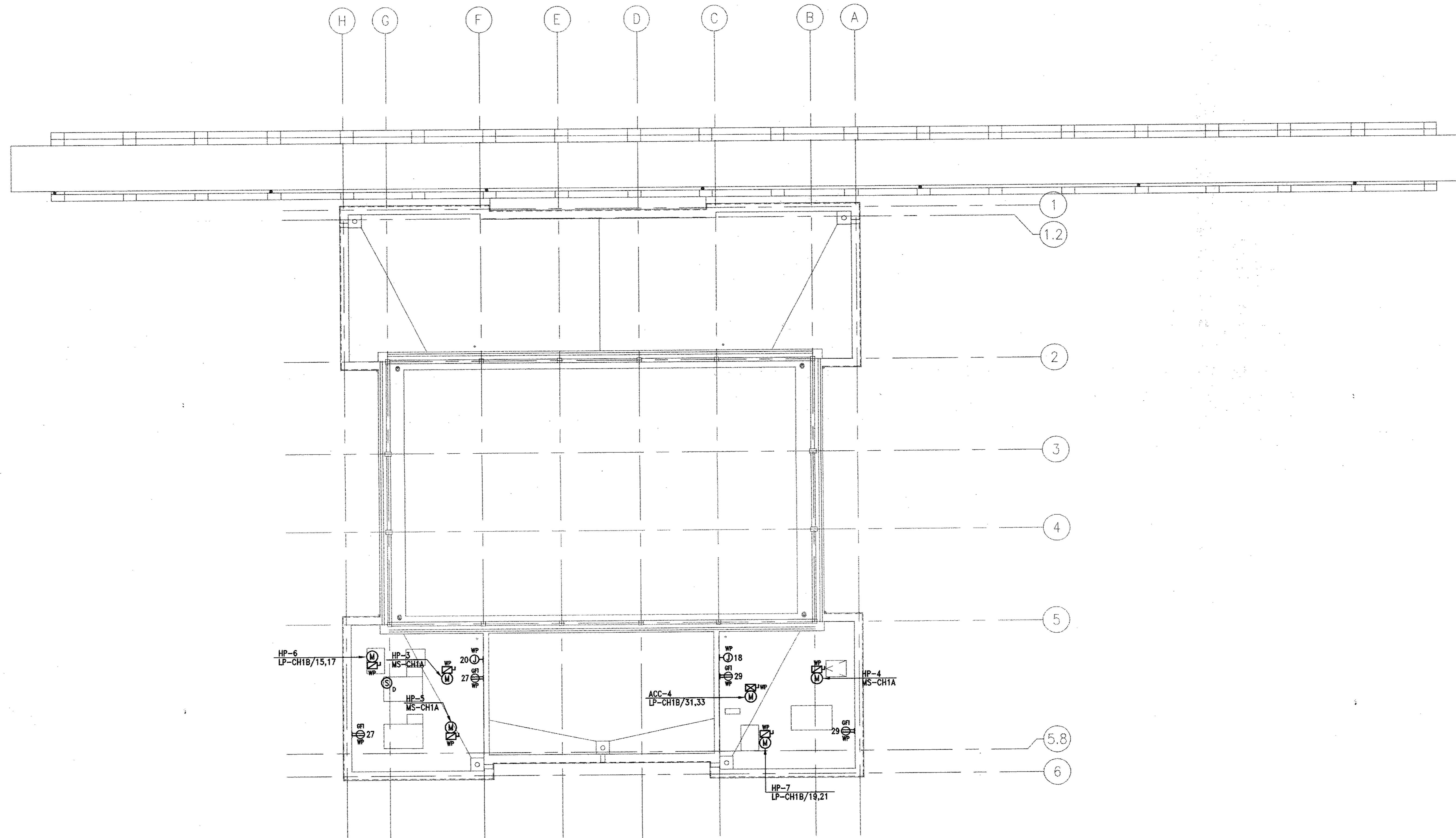
COMMUNITY HALL POWER PLAN

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SHEET NOTES

- A. PROVIDE CONDUIT AND WIRE FOR CIRCUITING SHOWN.
- B. CONNECT ALL 120/208V EQUIPMENT AND DEVICES TO PANEL LP-CH1B, UON.



ROOF PLAN 1
1/8"=1'-0"

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Cupertino, CA 95014
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408 777 3393 F

Sandis Humber Jones
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Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
ASSOCIATES
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Ebesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415 398 3833 T
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COMMUNITY HALL
ROOF
ELECTRICAL PLAN

scale 1/8" = 1'-0" date 2003.04.18
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408 777 3954 T
415 887 3333 F

Sandis Humber Jones
390 Menlo Drive, Suite 1
Redwood City, CA 94061
916 435 2400 T
916 435 2410 F

Hargreaves Associates
2003 17th Street
San Francisco, CA 94103
415 885 1811 T
415 885 1810 F

Forell/Ebesser Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415 398 8633 T
415 433 9311 F

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370 Branigan Street
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415 485 4885 T
415 495 4660 F

Revisions	Date	CD No.
	2003.11.24	00D No. 10.1
	2003.12.19	00D No. 7.2
	2004.01.22	00D No. 7.5
	2004.05.24	00D No. 66
	2004.09.30	00D No. 103

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FIRST FLOOR
LIGHTING PLAN

Scale: 1/8" = 1'-0" Date: 2003.04.18
Drawn by: LL Project Number: 01.03770.00
Sheet Number:

E3.10

SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES AND SWITCHES WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING AND SWITCHING SHOWN.

NUMBERED NOTES

- 1 PROVIDE MASTER OVERRIDE SWITCH FOR 1ST FLOOR LIGHTING. SEE DETAIL 5, SHEET E4.13.
- 2 FIXTURE MOUNTED IN COVE ABOVE LID. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
- 3 LOW VOLTAGE TRANSFORMER SERVING TYPE A46 LIGHTING FIXTURES.
- 4 PROVIDE 120V CONNECTION FOR FUTURE ILLUMINATED SIGNAGE.



FIRST FLOOR PLAN
1/8"=1'-0" 1

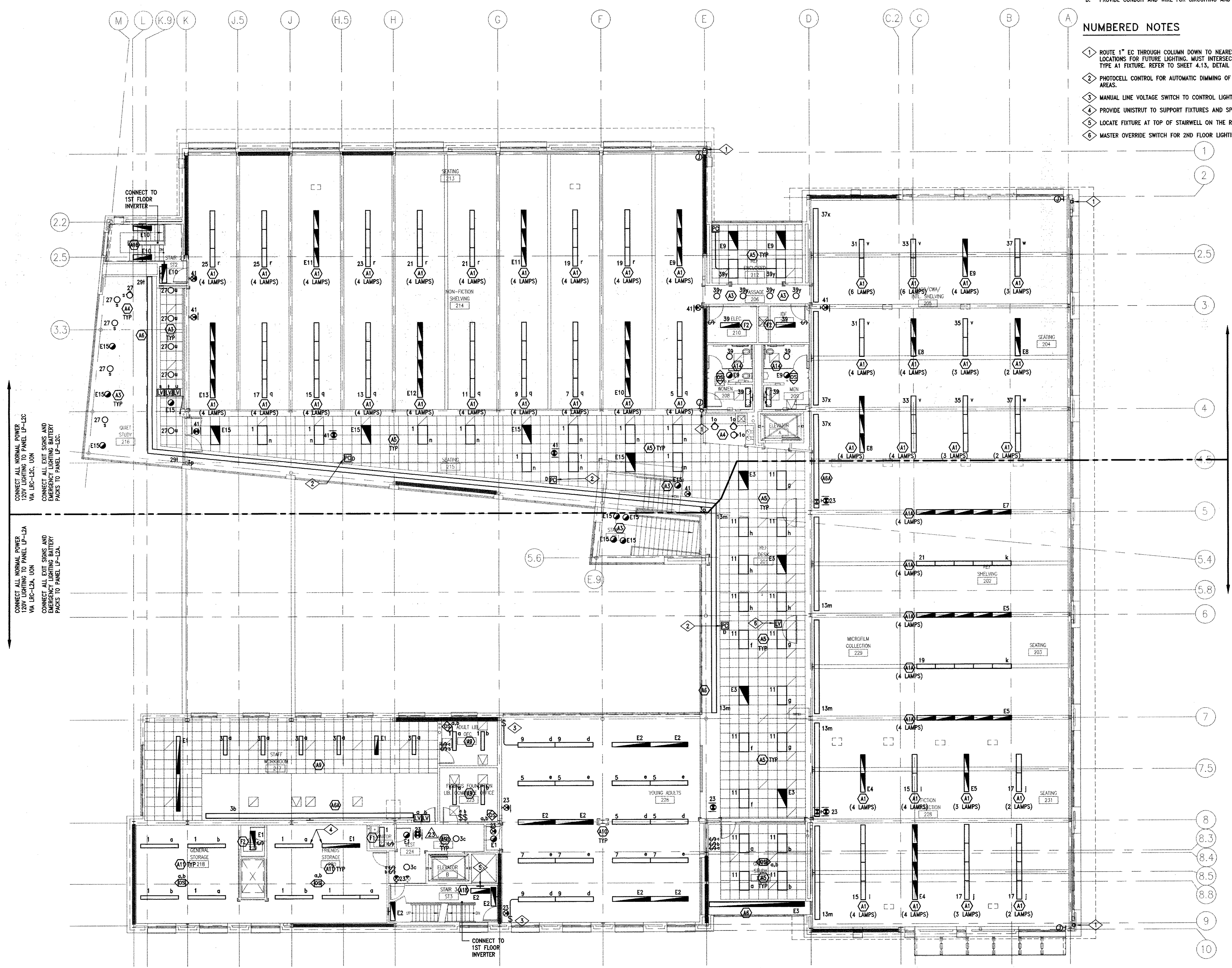
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SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES AND SWITCHES WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING AND SWITCHING SHOWN.

NUMBERED NOTES

- 1 ROUTE 1" EC THROUGH COLUMN DOWN TO NEAREST ACCESSIBLE CEILING LOCATIONS FOR FUTURE LIGHTING. MUST INTERSECT JUNCTION BOX SERVING TYPE A1 FIXTURE. REFER TO SHEET 4.13, DETAIL 6 FOR ADDITIONAL INFORMATION.
- 2 PHOTOCELL CONTROL FOR AUTOMATIC DIMMING OF A1/A1A FIXTURES IN SHELVING AREAS.
- 3 MANUAL LINE VOLTAGE SWITCH TO CONTROL LIGHTING IN DAYLIT ZONE.
- 4 PROVIDE UNISTRUT TO SUPPORT FIXTURES AND SPAN UNDER DUCT.
- 5 LOCATE FIXTURE AT TOP OF STAIRWELL ON THE ROOF LEVEL.
- 6 MASTER OVERRIDE SWITCH FOR 2ND FLOOR LIGHTING SEE DETAIL 5, SHEET EA.13.



SECOND FLOOR PLAN 1/8"=1'-0" 1

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 Cupertino, CA 95014
 408 777 2254 T
 408 777 3333 F

Sandis Humber Jones
 550 Merlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

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 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

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 Suite 500
 San Francisco, CA 94105-2673
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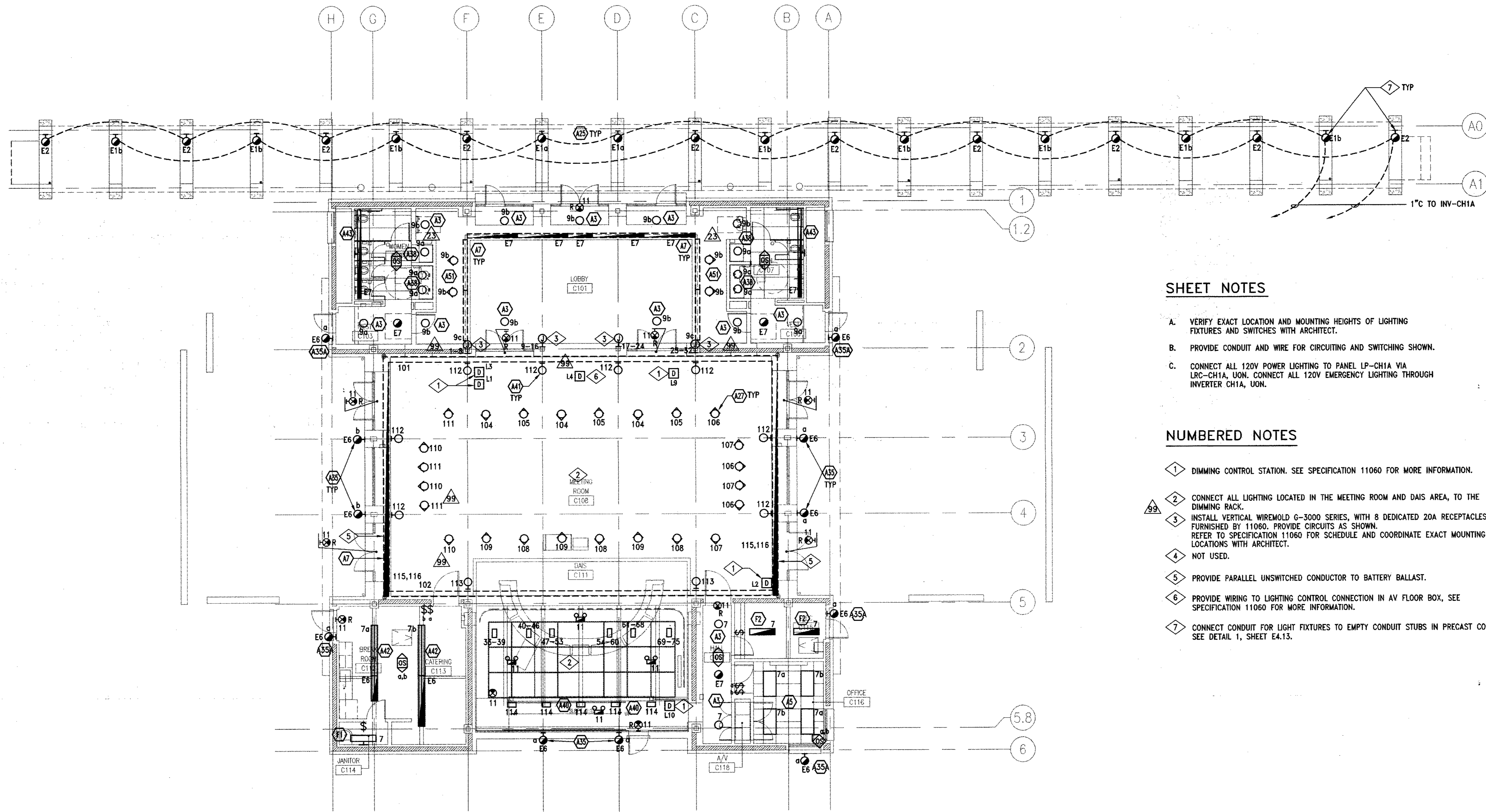
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 SECOND FLOOR
 LIGHTING PLAN

scale 1/8" = 1'-0" date 2003.04.18
 drawn by LL project number 01.03770.00
 sheet number

E3.11

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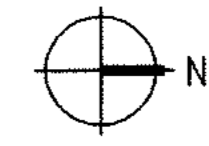


SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES AND SWITCHES WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING AND SWITCHING SHOWN.
- C. CONNECT ALL 120V POWER LIGHTING TO PANEL LP-CH1A VIA LRC-CH1A, UON. CONNECT ALL 120V EMERGENCY LIGHTING THROUGH INVERTER CH1A, UON.

NUMBERED NOTES

- 1 DIMMING CONTROL STATION. SEE SPECIFICATION 11060 FOR MORE INFORMATION.
- 2 CONNECT ALL LIGHTING LOCATED IN THE MEETING ROOM AND DAIS AREA, TO THE DIMMING RACK.
- 3 INSTALL VERTICAL WIREMOLD G-3000 SERIES, WITH 8 DEDICATED 20A RECEPTACLES, FURNISHED BY 11060. PROVIDE CIRCUITS AS SHOWN. REFER TO SPECIFICATION 11060 FOR SCHEDULE AND COORDINATE EXACT MOUNTING LOCATIONS WITH ARCHITECT.
- 4 NOT USED.
- 5 PROVIDE PARALLEL UNSWITCHED CONDUCTOR TO BATTERY BALLAST.
- 6 PROVIDE WIRING TO LIGHTING CONTROL CONNECTION IN AV FLOOR BOX, SEE SPECIFICATION 11060 FOR MORE INFORMATION.
- 7 CONNECT CONDUIT FOR LIGHT FIXTURES TO EMPTY CONDUIT STUBS IN PRECAST COLUMNS. SEE DETAIL 1, SHEET EA.13.



FLOOR PLAN 1
1/8"=1'-0"

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408 777 3356 T
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390 Menlo Drive, Suite 1
Redwood City, CA 94065
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Associates
2020 17th Street
San Francisco, CA 94103
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370 Brannan Street
San Francisco, CA 94107
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revisions	date	description
1	2004.01.09	CCD 9.2
2	2004.01.15	CCD 21
3	2004.09.01	CCD 97

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**COMMUNITY HALL
LIGHTING PLAN**

scale: 1/8" = 1'-0" date: 2003.04.18
drawn by: LL project number: 01.03770.00
sheet number

E3.20

WIRING SCHEDULE -- COPPER CONDUCTORS

CIRCUIT RATING	CONDUIT SIZE (INCHES)							CONDUCTOR SIZE	
	NONE	G	N	NG	NGI	NNG	NNGI	PHASE / NEUTRAL	GND / IG
15	0.5	0.5	0.5	0.5	0.5	0.5	0.5	12	12
20	0.5	0.5	0.5	0.5	0.5	0.5	0.5	12	12
30	0.5	0.5	0.5	0.5	0.75	0.75	0.75	10	10
40	0.75	0.75	0.75	1	1	1	1	8	10
50	1	1	1	1.25	1.25	1.25	1.25	6	10
60	1	1.25	1.25	1.25	1.5	1.5	1.5	4	10
70	1	1.25	1.25	1.25	1.5	1.5	1.5	4	8
80	1.25	1.25	1.25	1.5	2	2	2	2	8
90	1.25	1.25	1.25	1.5	2	2	2	2	8
100	1.25	1.5	1.5	2	2	2	2.5	1	8
110	1.25	1.5	1.5	2	2	2	2.5	1	6
125	1.25	1.5	1.5	2	2	2	2.5	1	6
150	1.5	2	2	2	2.5	2.5	2.5	1/0	6
175	1.5	2	2	2	2.5	2.5	2.5	2/0	6
200	2	2	2	2.5	2.5	2.5	3	3/0	6
225	2	2.5	2.5	2.5	3	3	3	4/0	4
250	2.5	2.5	2.5	3	3	3	3.5	250	4
300	2.5	3	3	3.5	3.5	3.5	4	350	4
350	3	3.5	3.5	4	4	4	5	500	2
400	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3/0	2
450	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2/0	2
500	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	250	1
600	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	350	1
700	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	500	1/0
800	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	300	1/0
1000	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	400	2/0
1200	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	350	3/0
1600	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	400	4/0
2000	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	500	250
2500	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	500	350
3000	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	500	400

SUBSCRIPT KEY

SUBSCRIPT	CONDUCTORS PER CONDUIT
NONE	3 PHASE CONDUCTORS, CONDUIT GROUND
G	3 PHASE CONDUCTORS, 1 GROUNDING CONDUCTOR
N	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, CONDUIT GROUND
NG	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR
NGI	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR
NNG	3 PHASE CONDUCTORS, 2 NEUTRAL CONDUCTORS*, 1 GROUNDING CONDUCTOR
NNGI	3 PHASE CONDUCTORS, 2 NEUTRAL CONDUCTORS*, 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR

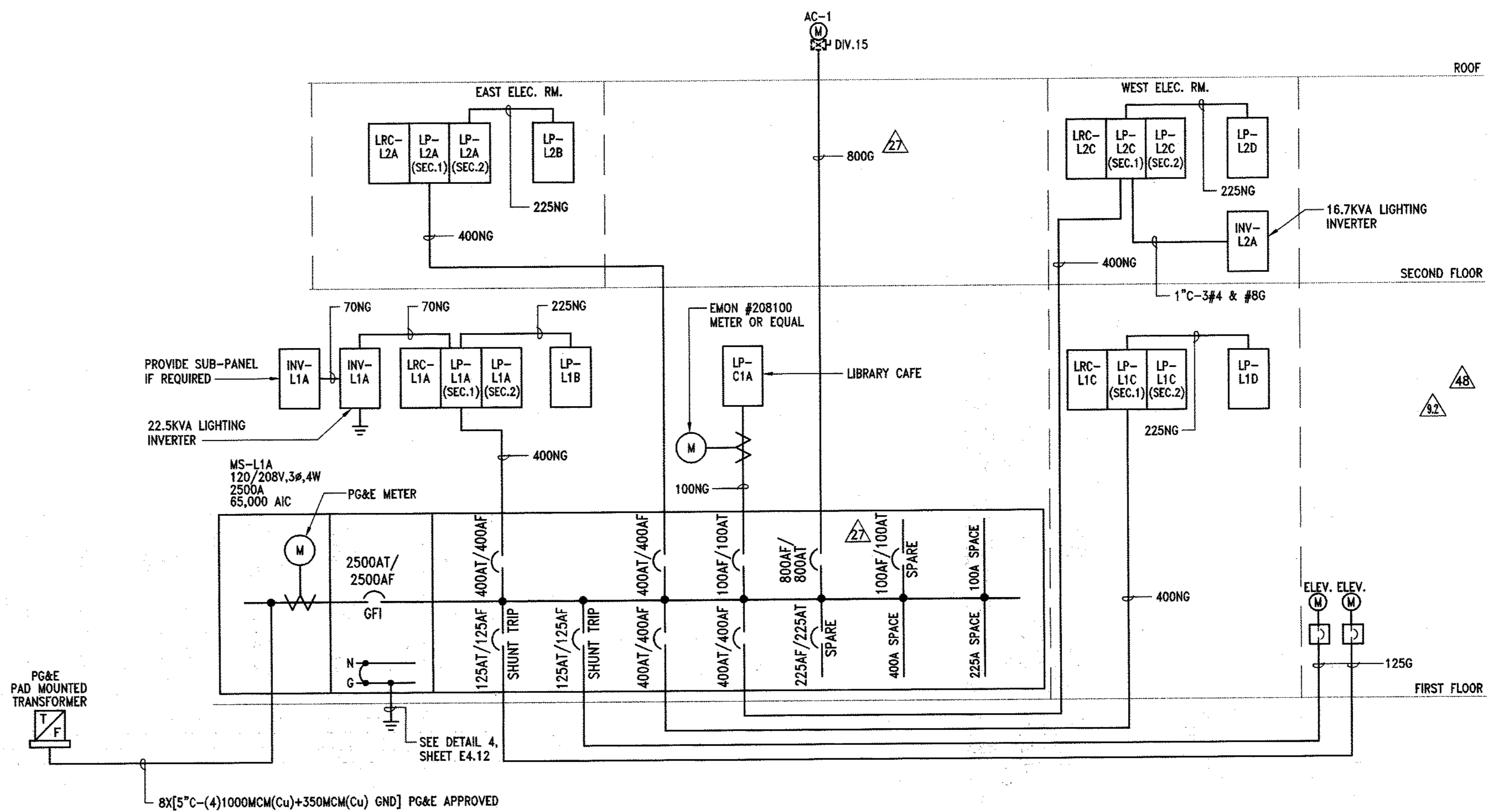
* SINGLE NEUTRAL CONDUCTOR SIZES FOR CIRCUIT RATING 125 AND LESS

CIRCUIT RATING	15	20	30	40	50	60
SINGLE NEUTRAL CONDUCTOR SIZE	10	8	4	2	1	1/0
CIRCUIT RATING	70	80	90	100	125	
SINGLE NEUTRAL CONDUCTOR SIZE	2/0	3/0	4/0	250	250	

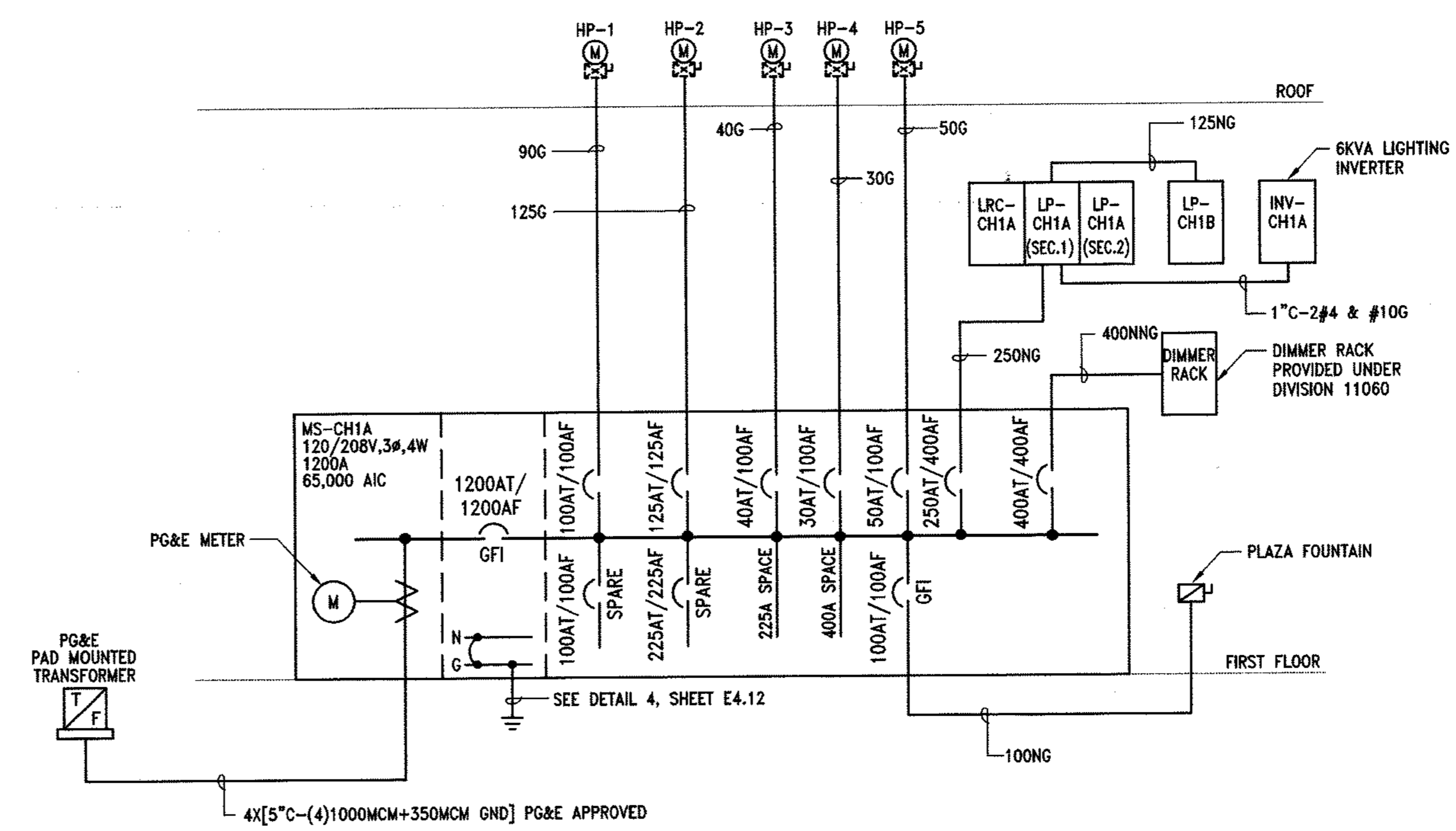
EXAMPLES

225NG

225 NG SUBSCRIPT



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COMMUNITY HALL

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 408 777 3333 F

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 590 Menlo Drive, Suite 1
 Redwood City, CA 94061
 916 435 2400 T
 916 435 2410 F

Hargreaves Associates
 2001 17th Street
 San Francisco, CA 94103
 415 885 1811 T
 415 885 1810 F

Forell/Ebesser Engineers, Inc.
 180 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
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 405 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
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 370 Brannan Street
 San Francisco, CA 94107
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revisions

date	description	CCD No.
2003.12.19		7.2
2004.01.15		25
2004.03.15		46

11-29-04 Updated Contract Documents

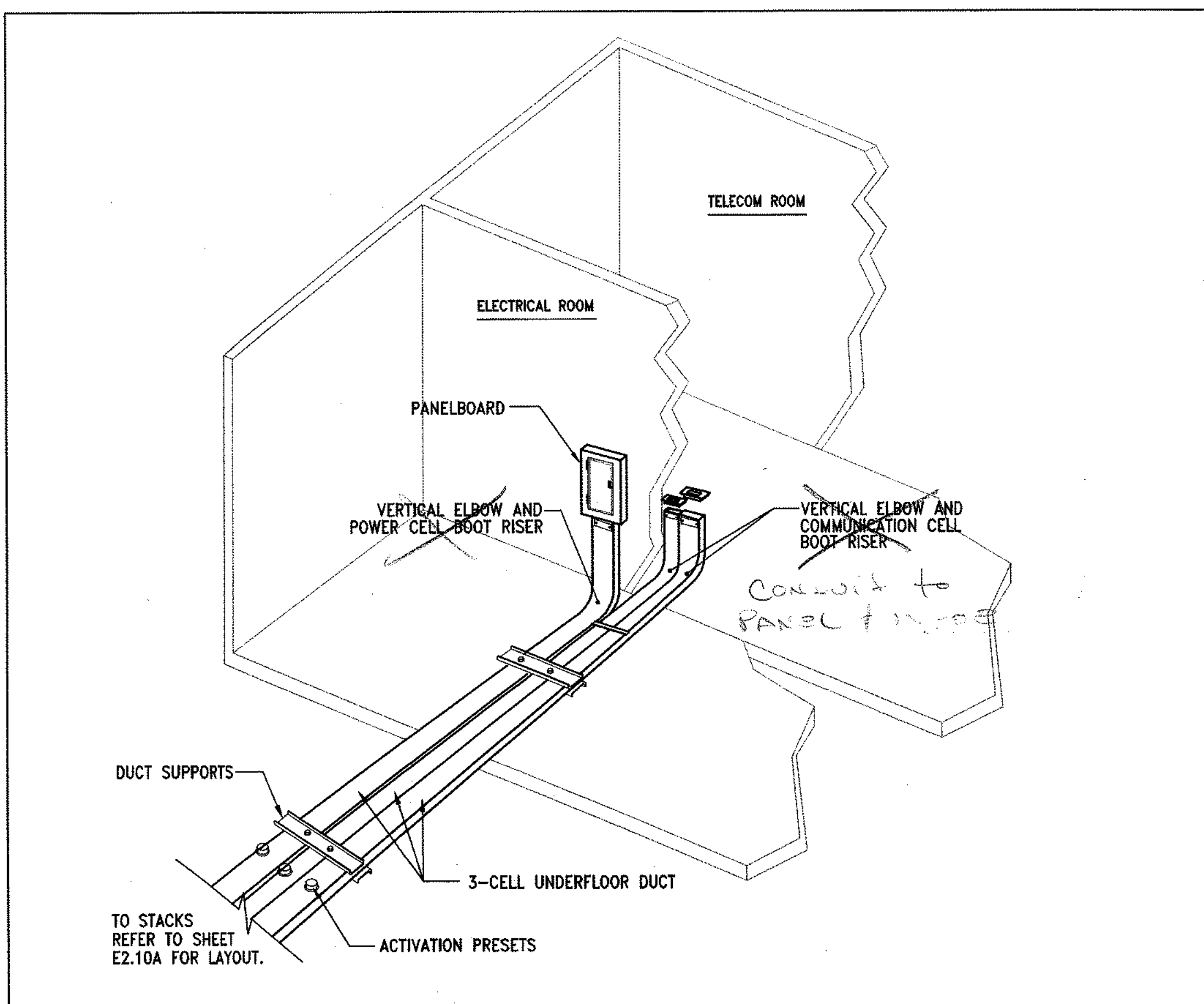
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ELECTRICAL RISER DIAGRAM

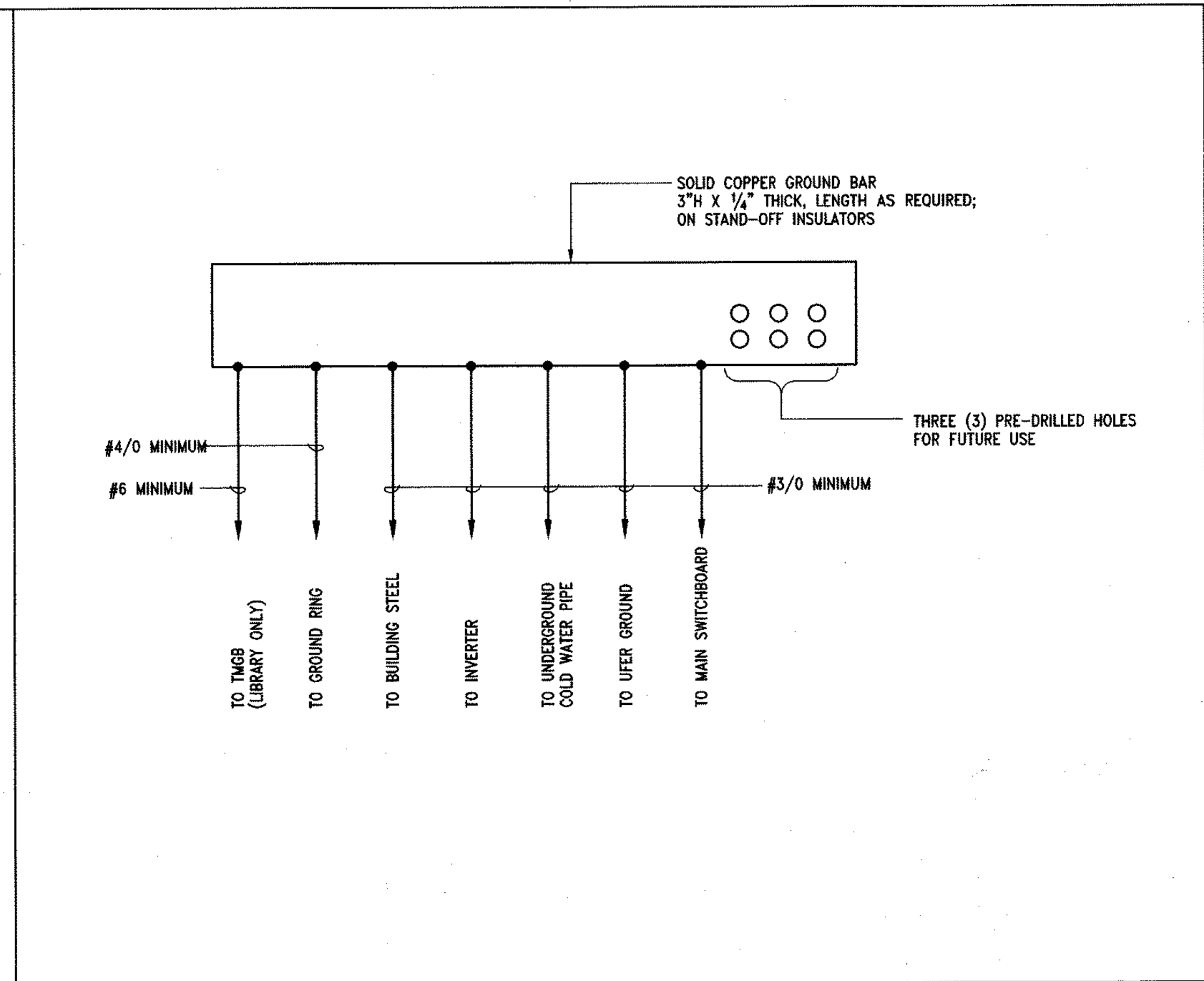
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 sheet number

E4.11

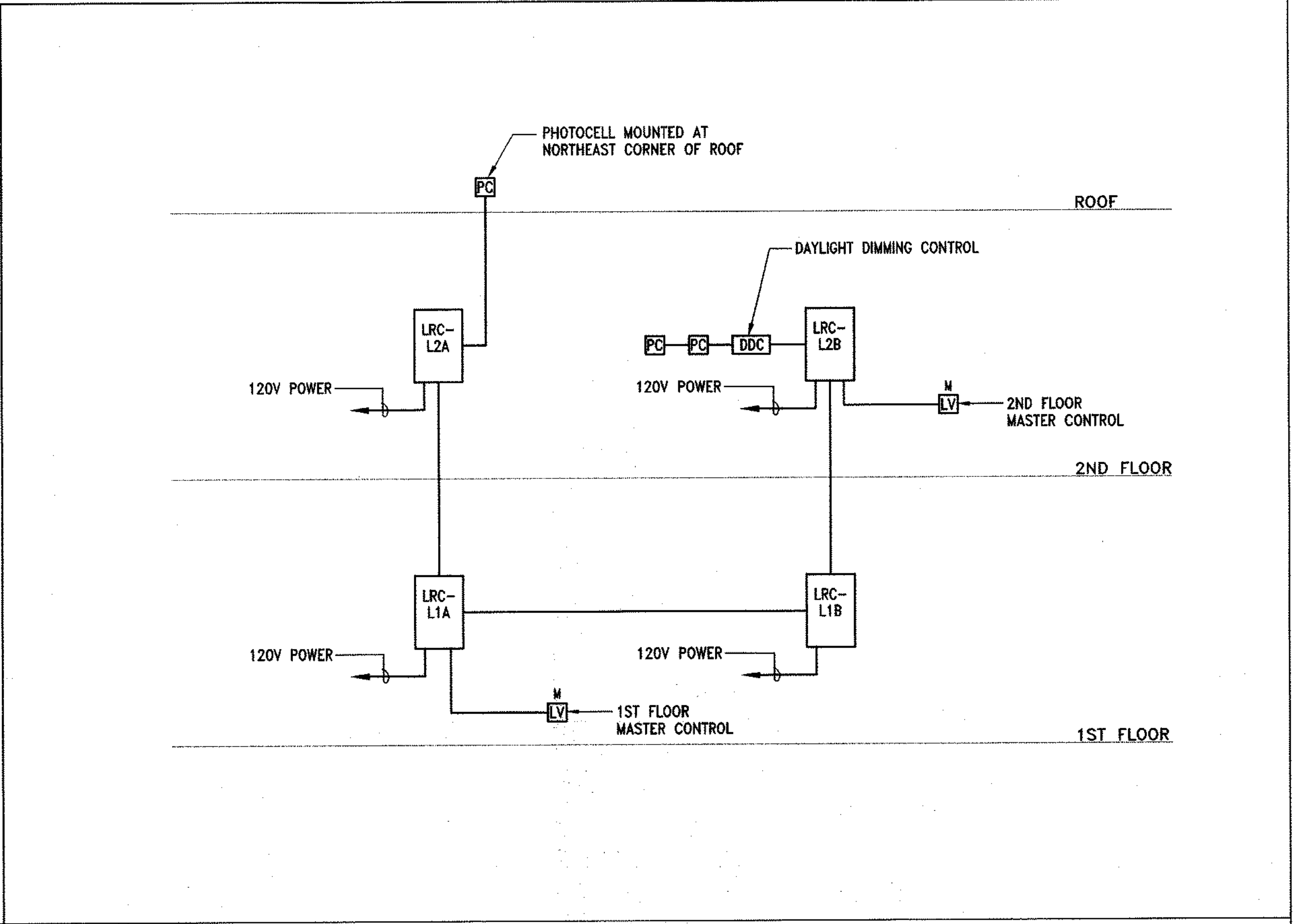
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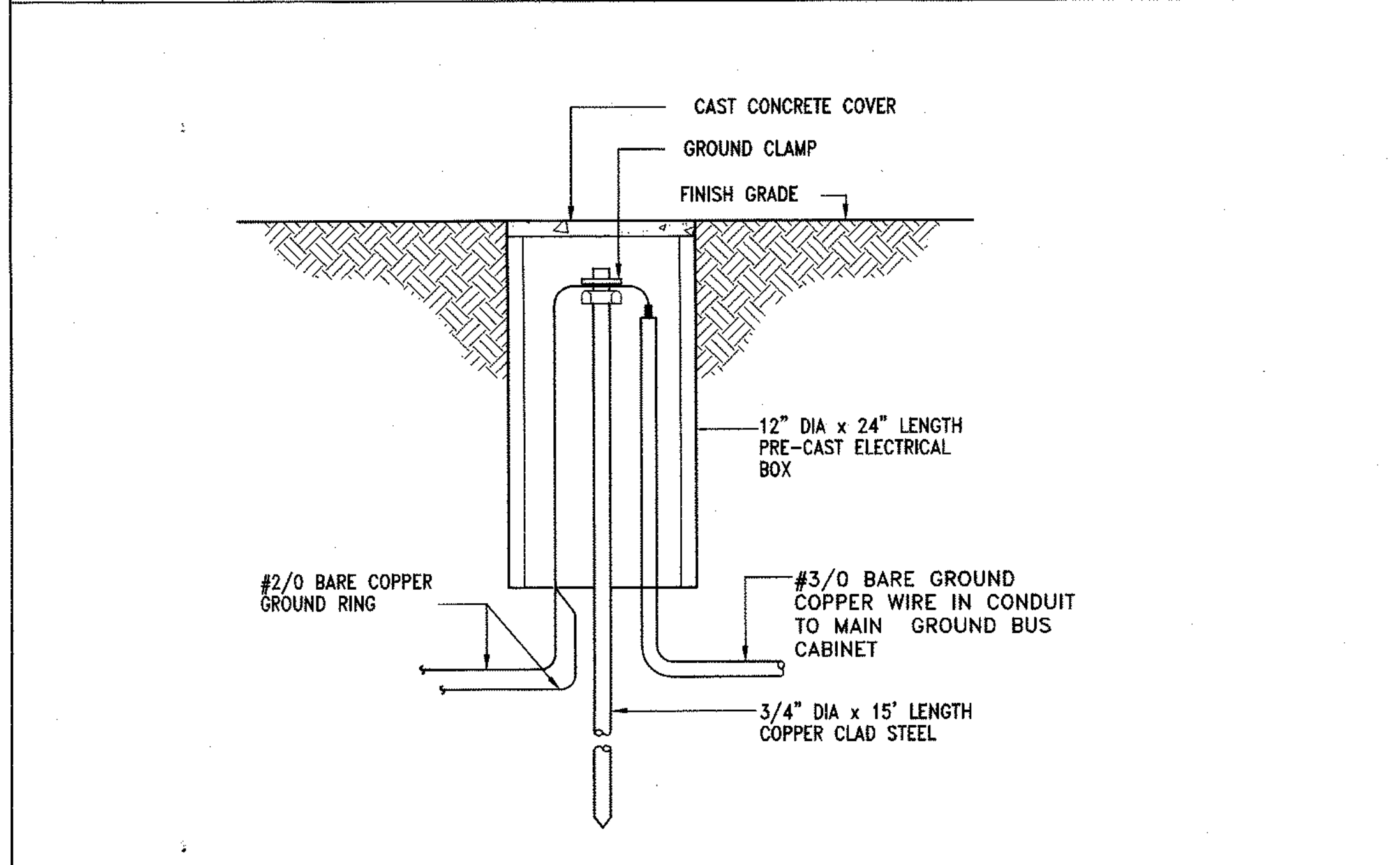
8 UNDERFLOOR DUCT ISOMETRIC POWER AND TELE/DATA BOOT RISERS NO SCALE



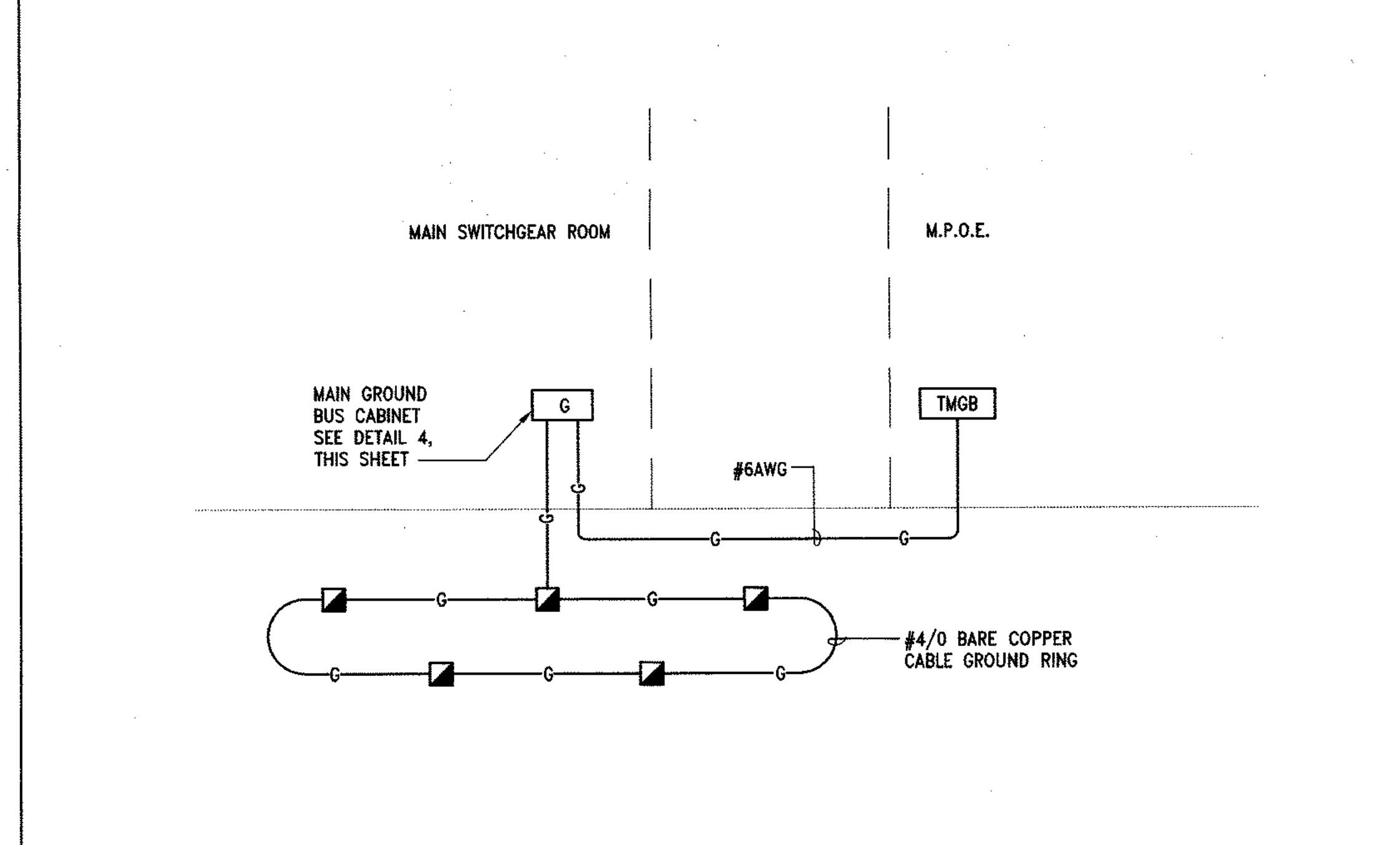
4 MAIN GROUND BUS CABINET LIBRARY AND COMMUNITY HALL NO SCALE



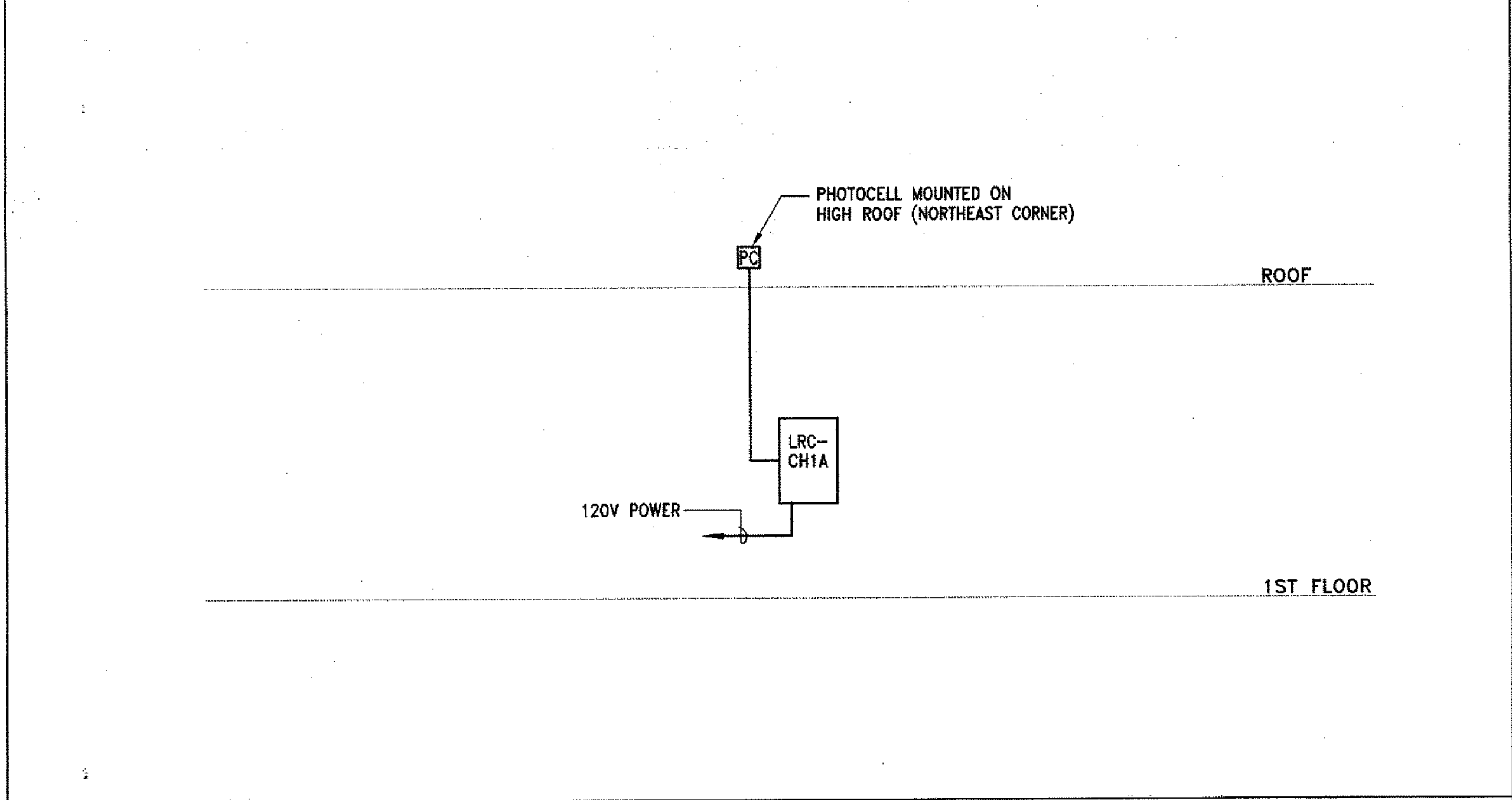
1 PROGRAMMABLE LIGHTING CONTROL SYSTEM SCHEMATIC DIAGRAM NO SCALE



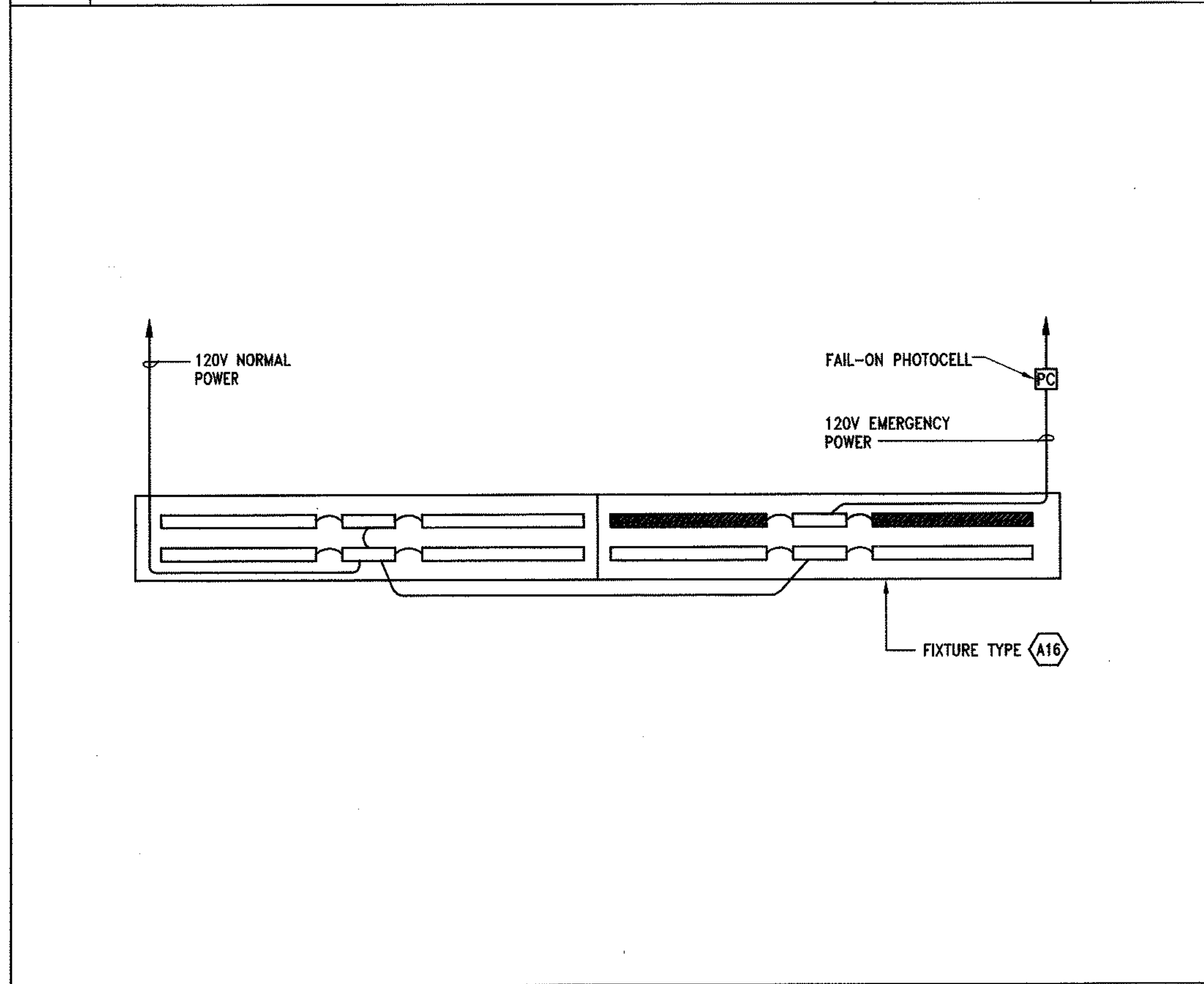
9 GROUND ROD DETAIL NO SCALE



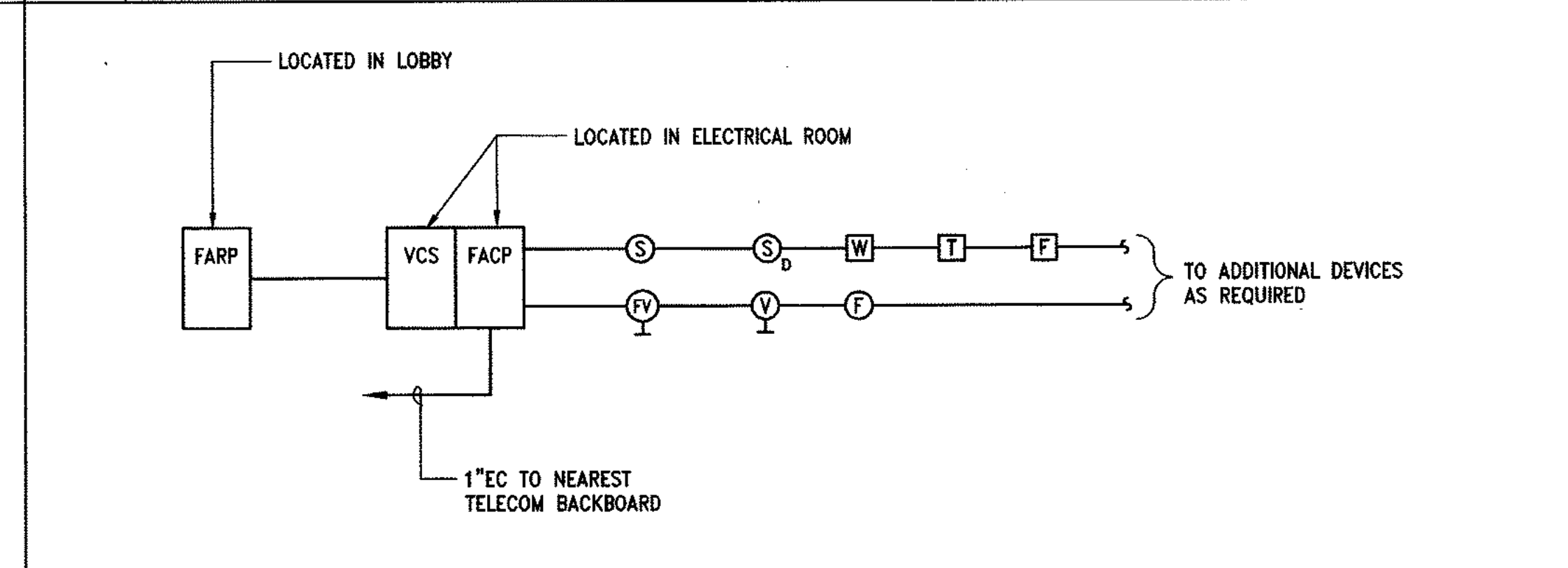
5 GROUNDING RISER DIAGRAM LIBRARY NO SCALE



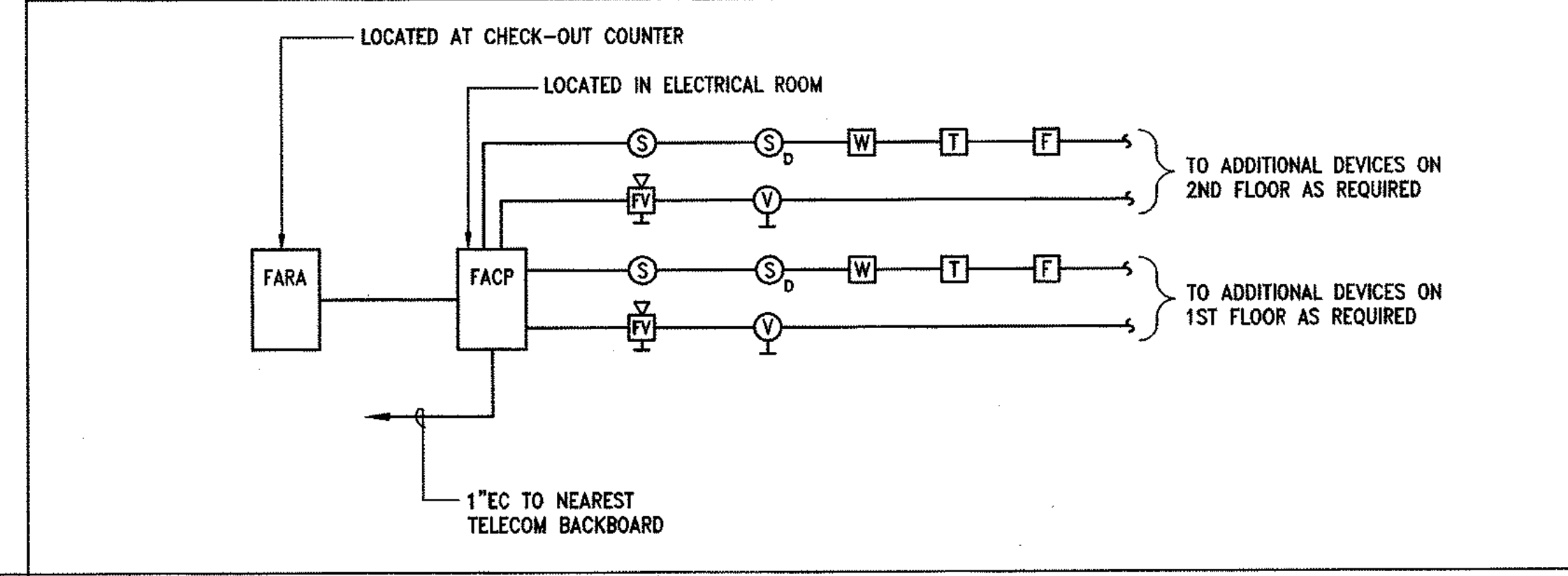
2 PROGRAMMABLE LIGHTING CONTROL SYSTEM COMMUNITY HALL NO SCALE



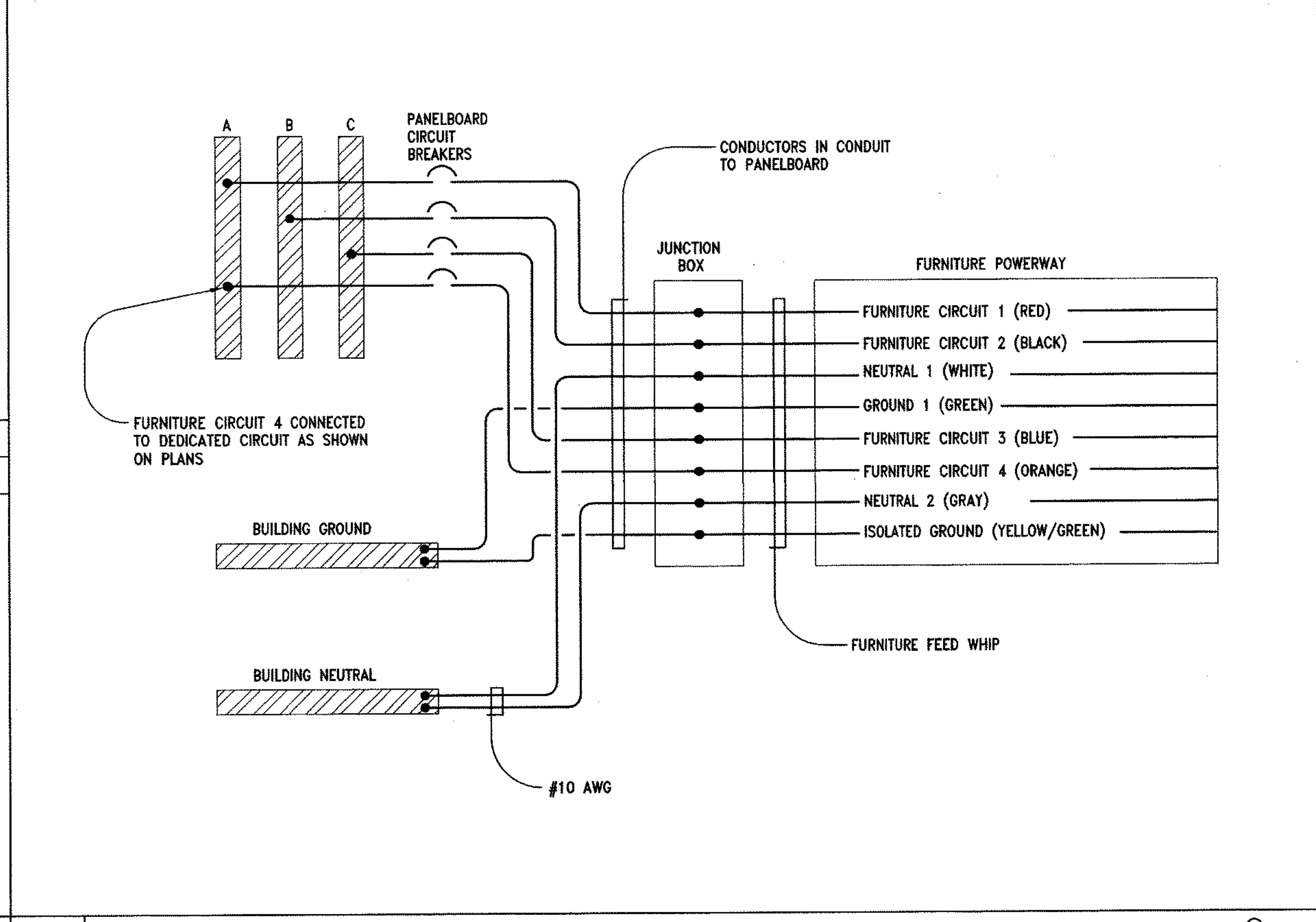
10 PERIMETER DAYLIGHTING CONTROL NO SCALE



6 FIRE ALARM SYSTEM RISER DIAGRAM COMMUNITY HALL NO SCALE



7 FIRE ALARM SYSTEM RISER DIAGRAM LIBRARY NO SCALE

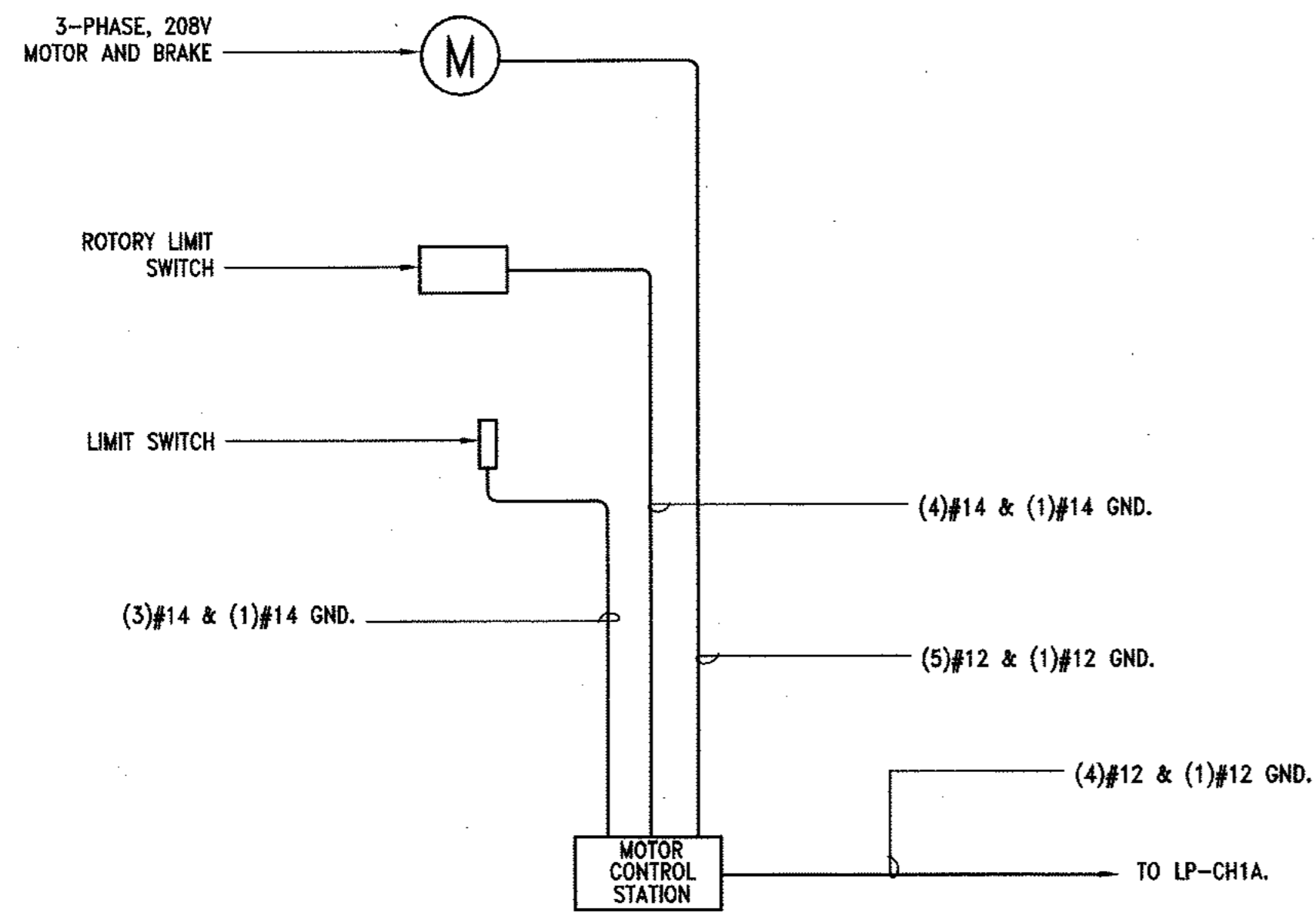


3 ELECTRIFIED FURNITURE WIRING SCHEMATIC NO SCALE

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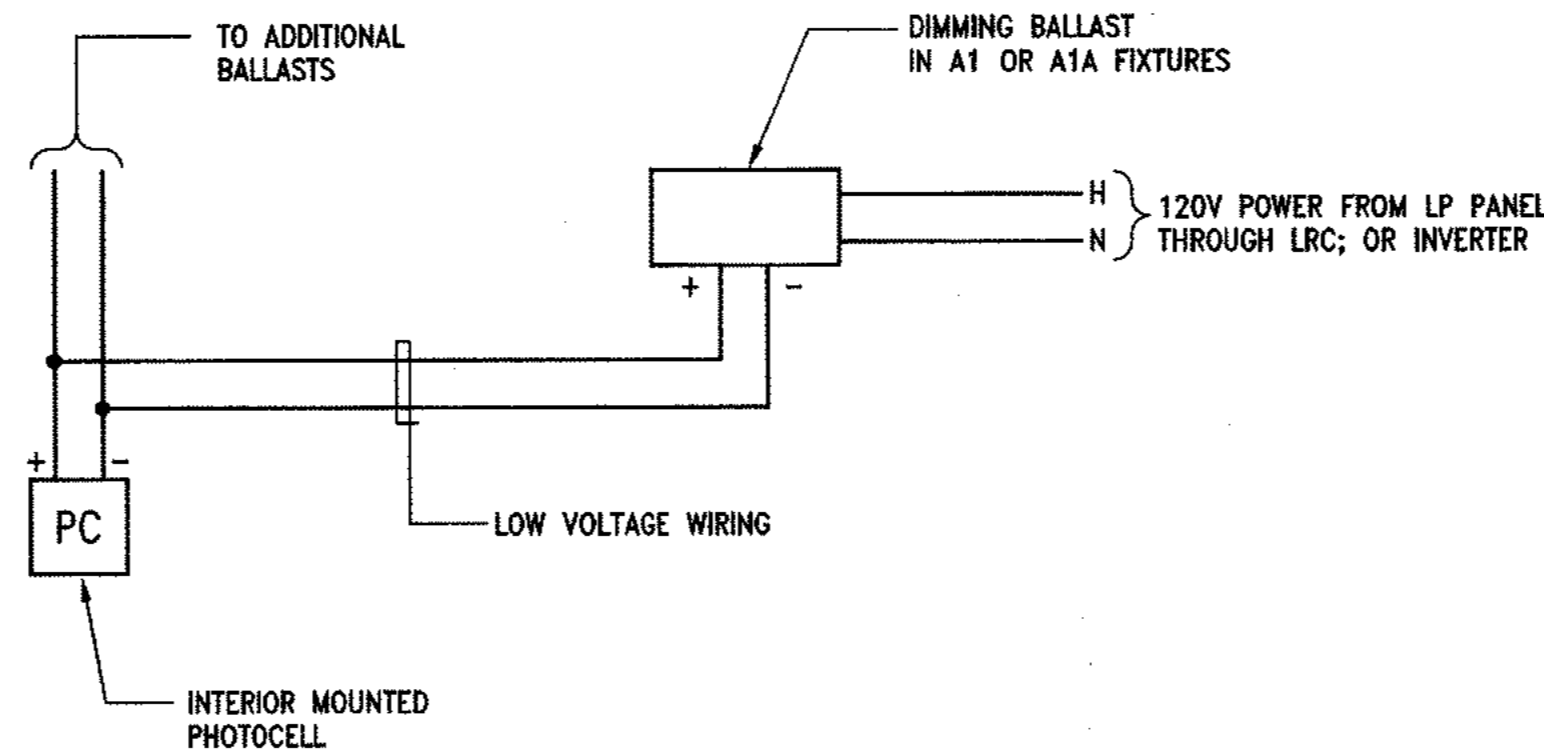
Cupertino Civic Center
 10440 Torre Avenue, Cupertino, CA 95014



A. REFER TO STAGECRAFT SHOP DRAWINGS FOR MOTOR CONTROL WIRING DIAGRAM FOR ADDITIONAL WIRING AND CONNECTIONS.

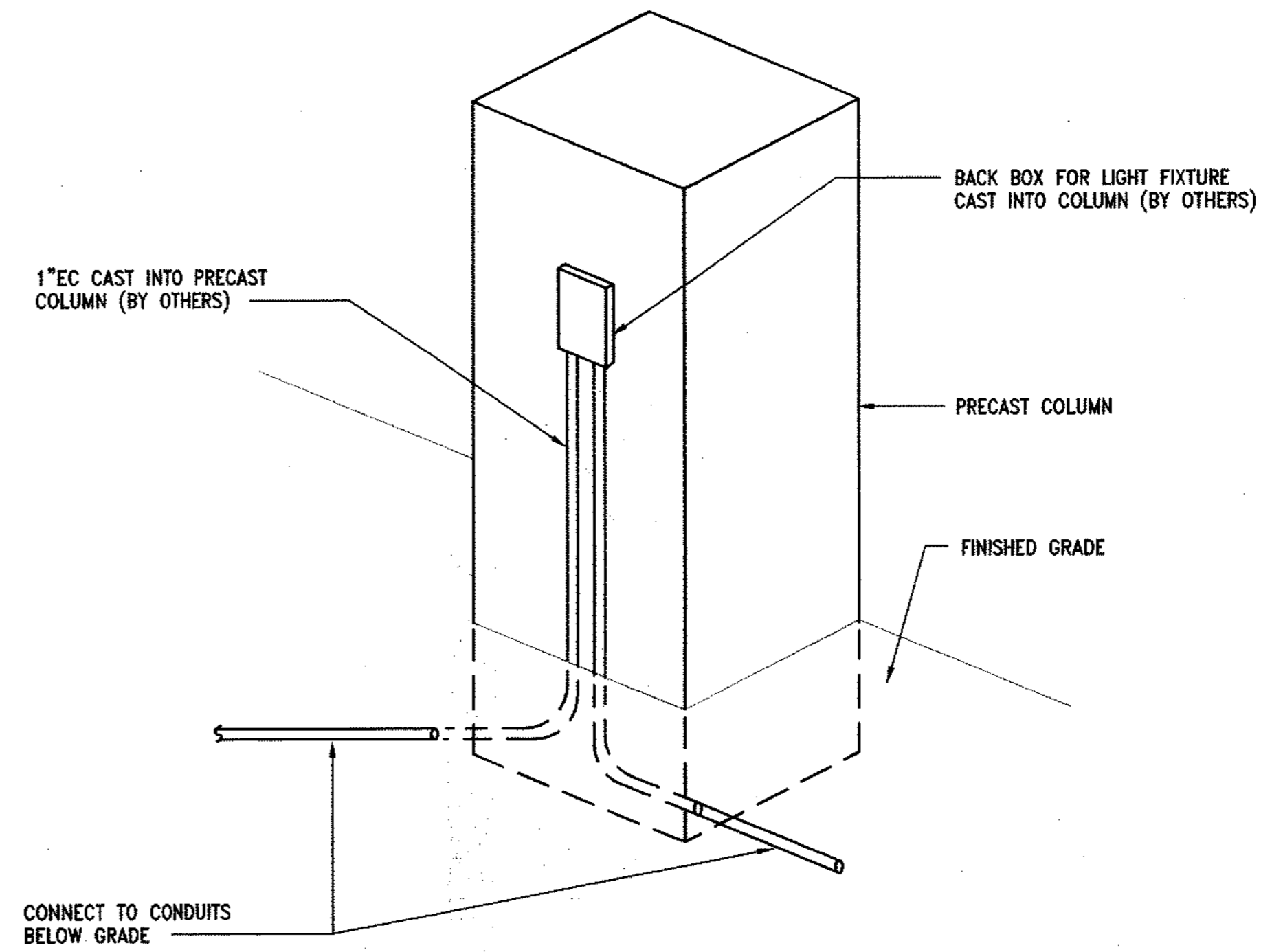
7 DAIS TABLE MOTOR CONTROL RISER DIAGRAM

NO SCALE



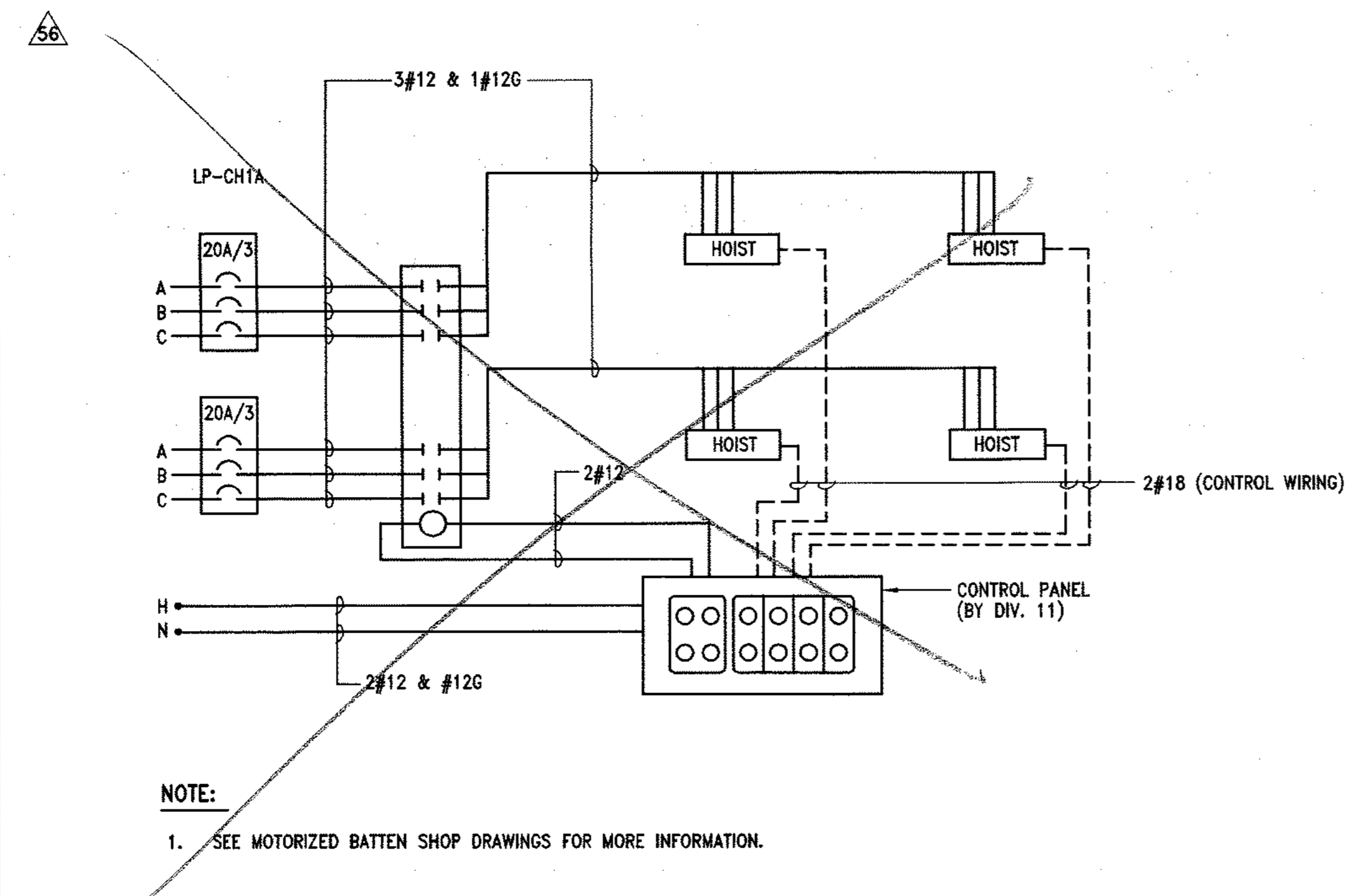
4 DAYLIGHT DIMMING CONTROL

NO SCALE



1 CONNECTION TO A25 FIXTURES ON PRECAST COLUMNS

NO SCALE



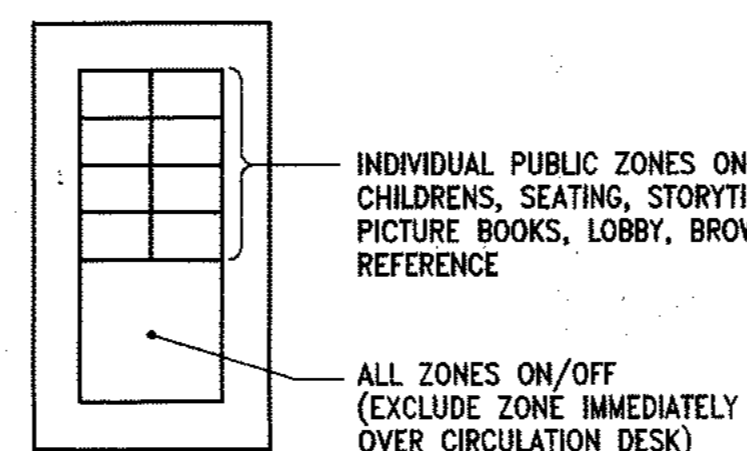
NOTE:
1. SEE MOTORIZED BATTEN SHOP DRAWINGS FOR MORE INFORMATION.

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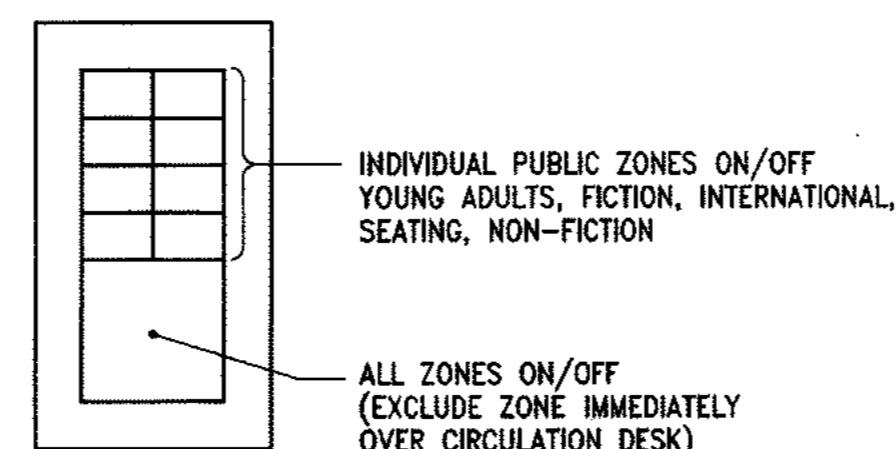
5 MOTORIZED HOIST WIRING DIAGRAM

NO SCALE

NOTES
1. CUSTOM ENGRAVE ALL BUTTONS.
2. COORDINATE ZONES WITH OWNER PRIOR TO INSTALLATION.



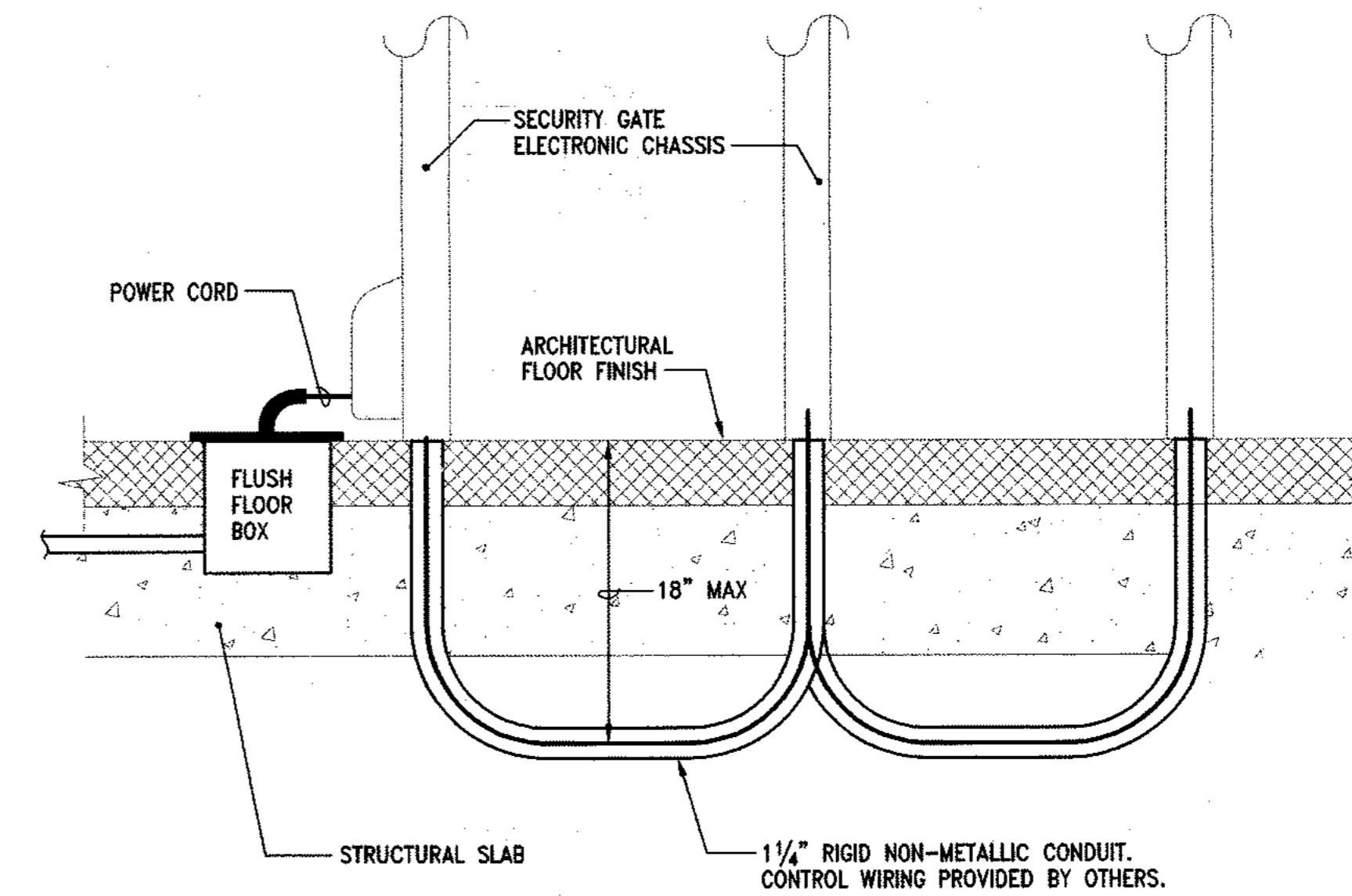
1ST FLOOR



2ND FLOOR

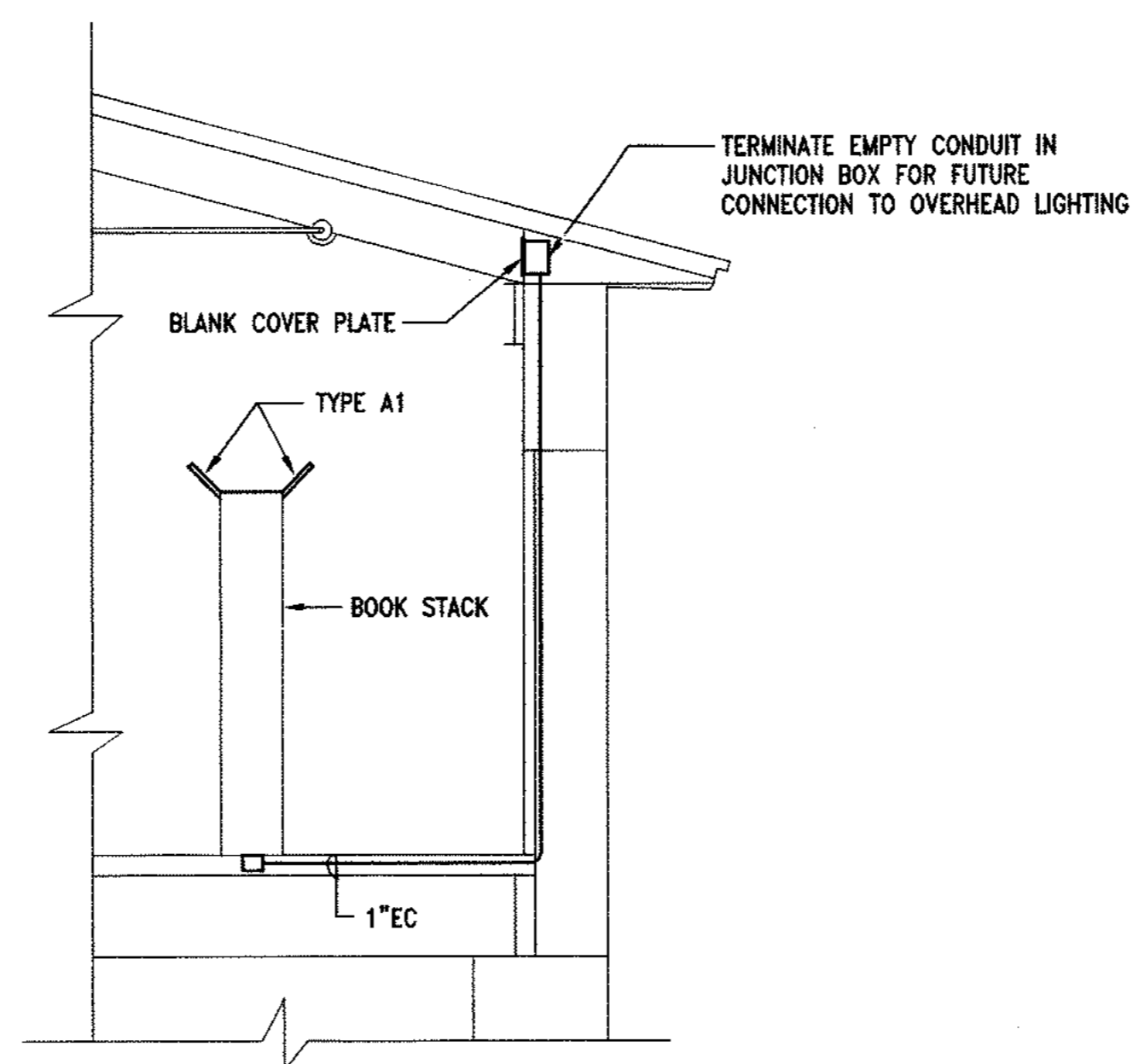
5 MASTER OVERRIDE SWITCHES LIBRARY

NO SCALE



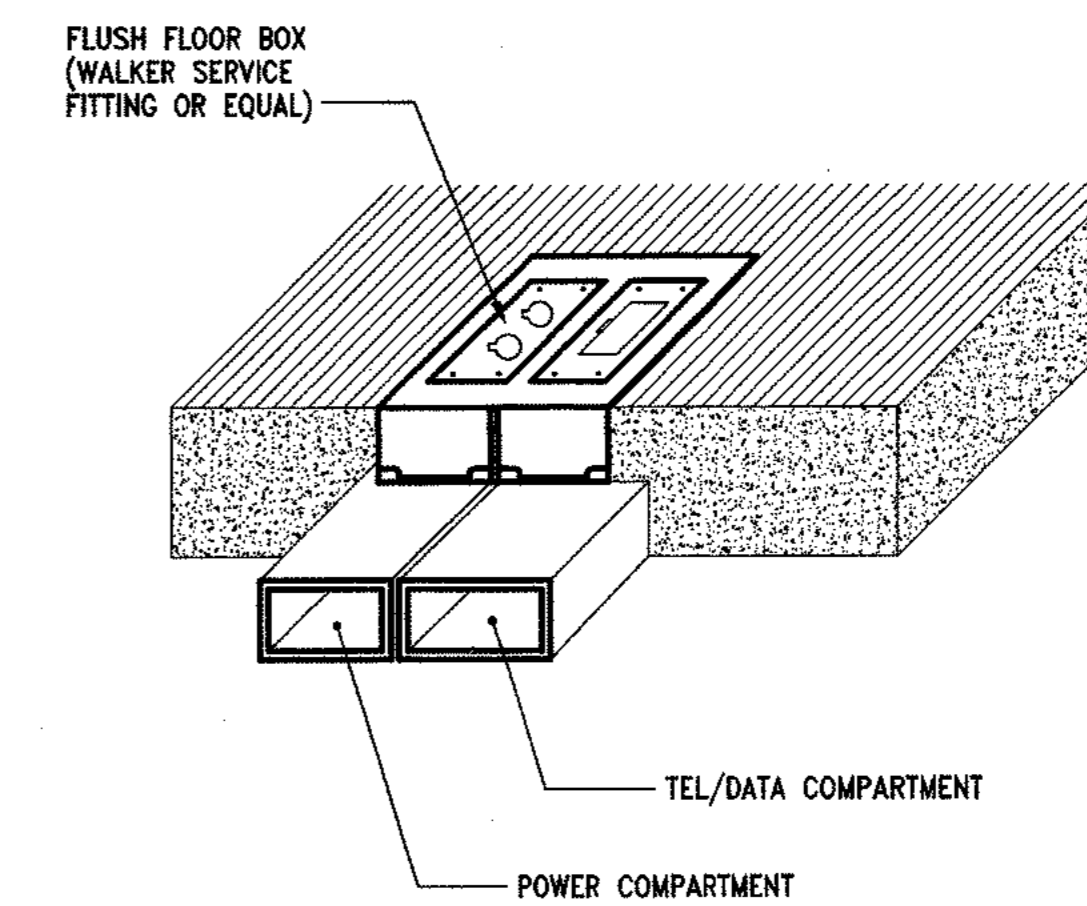
2 SECURITY GATE EMPTY CONDUIT SCHEMATIC

NO SCALE



6 CONDUIT STUB-UP FOR FUTURE LIGHTING LIBRARY

NO SCALE



3 FLUSH FLOOR BOX ACTIVATED PRESET TRENCH DUCT SYSTEM

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Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redwood City, CA 94063
916 435 2400 T
916 435 2410 F

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Associates
2020 17th Street
San Francisco, CA 94103
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56 2004.04.19 CCD No. 54
63 2004.05.14 CCD No. 61

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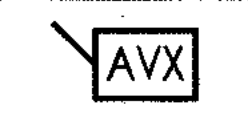


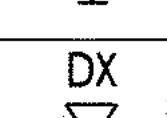








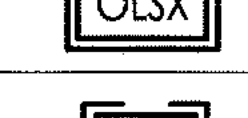
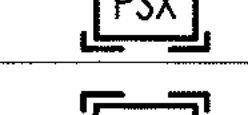
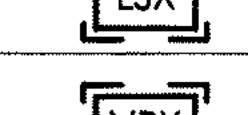

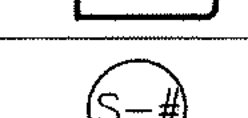


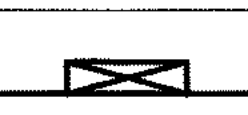


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ABBREVIATIONS:		JOBSITE NOTES:	A/V ELECTRICAL NOTES:
CSA	CHARLES SALTER ASSOCIATES	1. VERIFY ALL BACKBOX AND MILLWORK DIMENSIONS PRIOR TO PLACING EQUIPMENT ORDERS OR COMMENCING INSTALLATION. 2. COORDINATE WITH OTHER TRADES AT ALL TIMES WHEN PRESENT ON JOBSITE. 3. CONSTRUCTION WORK DEPICTED WITHIN THESE DRAWINGS IS FOR REFERENCE ONLY, CONSULT G.C. FOR LATEST AS BUILT DWGS. 4. ALL PROJECTION SCREENS INSTALLED BY THE GENERAL CONTRACTOR.	1. AC POWER FOR A/V RACKS TO BE DEDICATED CIRCUIT WITH DUPLEX RECEPTACLES LOCATED AS SHOWN ON EA1.03. 2. ALL SIGNAL CONDUIT 3/4" UNLESS OTHERWISE NOTED. 3. ALL CONDUITS ATTACHED TO AVTC'S OR CABLE TRAYS. PROVIDE BUSHINGS. 4. MAINTAIN MINIMUM 12" SEPARATION BETWEEN AUDIO, VIDEO, AND CONTROL SIGNALS AND ELECTRICAL CONDUITS WHENEVER POSSIBLE. 5. ALL AUDIOVISUAL DEVICES AND EQUIPMENT SHALL BE SERVED BY CIRCUITS DEDICATED FOR A/V USE. 6. NO INDUCTIVE LOADS ON A/V CIRCUITS. 7. ALL ELECTRICAL OUTLETS ADJACENT TO A/V JUNCTION BOXES TO BE SERVED BY CIRCUITS DEDICATED FOR A/V USE. 8. PROVIDE SIGNAL GROUND BUS BAR AT AC POWER PANELS THAT SERVE AUDIOVISUAL. 9. PROVIDE PULL STRINGS IN ALL A/V CONDUITS. 10. DESIGNATE SIGNAL CONDUIT INSIDE ALL JUNCTION BOXES AND TERMINAL CABINETS.
PROJ.	PROJECTOR		
ADA	AUDIO DISTRIBUTION AMPLIFIER	GENERAL NOTES:	
YDA	VIDEO DISTRIBUTION AMPLIFIER	1. ALL EA DRAWINGS FOR BID BY ELECTRICAL CONTRACTOR. 2. ALL CONDUITS SHOWN ARE FOR A/V SIGNALING ONLY. 120 VOLT A/C CONDUITS FOR ADJACENT AND INTERNAL POWER AS CALLED FOR IN SCHEDULE ARE PROVIDED IN SEPARATE DRAWINGS. 3. REFER TO SCHEDULE FOR CABLING REQUIREMENTS BY TRADE. 4. ALL ELECTRICAL ENCLOSURES, CONDUITS, AND BACKBOXES PROVIDED BY E.C.	
DA	DISTRIBUTION AMPLIFIER		
AUTO	AUTOMATIC	SYMBOL LEGEND:	
MIC	MICROPHONE	 WALL-MOUNTED A/V J BOX	 TELEPHONE JACK - 15" A.F.F. OR AS NOTED IN SCHEDULE
OFE	OWNER FURNISHED EQUIPMENT	 WALL-MOUNTED A/V TERMINAL CAN	 DATA PORT - 15" A.F.F. OR AS NOTED IN SCHEDULE
N.I.C.	NOT IN CONTRACT	 WALL-MOUNTED PLASMA DISPLAY BACK BOX	 MULTIMEDIA CABLE TERMINATION BOX, 15" A.F.F. OR AS NOTED IN SCHEDULE
CPU	CENTRAL PROCESSING UNIT	 WALL-MOUNTED VOLUME CONTROL J BOX	
SYS.	SYSTEM	 WALL-MOUNTED TOUCHPANEL BACK BOX	 MULTIMEDIA CABLE TERMINATION BOX, WALL MOUNT OR AS NOTED IN SCHEDULE
TO TELCO	TO TELEPHONE AND COMMUNICATIONS	 WALL-MOUNTED LOUDSPEAKER J BOX	
A	AUDIO	 FLOOR-MOUNTED A/V J BOX	 DATA AND TELEPHONE RECEPTACLE, 15" A.F.F. OR AS NOTED IN SCHEDULE
V	VIDEO	 OUTDOOR LOUDSPEAKER PULL BOX	
S-VID	S VIDEO	 CEILING-MOUNTED PROJECTION SCREEN CONTROL J BOX	
VID	COMPOSITE VIDEO	 CEILING-MOUNTED LOUDSPEAKER J BOX	
RGBHV	RED, GREEN, BLUE, HORIZONTAL, AND VERTICAL	 CEILING-MOUNTED VIDEO PROJECTOR J BOX	
MATV	MASTER ANTENNA TELEVISION SYSTEM	 PROJECTOR LOCATION	
AUX	AUXILIARY	 BACKGROUND MUSIC SPEAKER LOCATION	
L	LEFT AUDIO	 AUDIOVISUAL TERMINAL CABINET (FLUSH)	
R	RIGHT AUDIO	 AUDIOVISUAL TERMINAL CABINET (RECESSED)	
A.F.F.	ABOVE FINISHED FLOOR	 AUDIOVISUAL TERMINAL CABINET (SURFACE MOUNTED)	
A.V.C.	AUDIOVISUAL CONTRACTOR	 WIRE RACEWAY/TROUGH/OR GUTTER	
G.C.	GENERAL CONTRACTOR		
CL	CENTERLINE		
E.C.	ELECTRICAL CONTRACTOR		
PWR	POWER		
U.O.N.	UNLESS OTHERWISE NOTED		
LV	LOW VOLTAGE		
AV	AUDIOVISUAL		
AVTC	AUDIOVISUAL TERMINAL CABINET		
FB	FLOOR BOX		
PD	PLASMA DISPLAY		
PS	PROJECTION SCREEN		
VC	VOLUME CONTROLLER		
TP	TOUCHPANEL		
LS	LOUDSPEAKER		
OLS	OUTDOOR LOUDSPEAKER		
LDSPKR	LOUDSPEAKER		
VP	VIDEO PROJECTOR		
T	TELEPHONE		
DT	DATA / TELEPHONE		
MM	MULTIMEDIA		
BGM	BACKGROUND MUSIC		
BGMS	BACKGROUND MUSIC SPEAKER		

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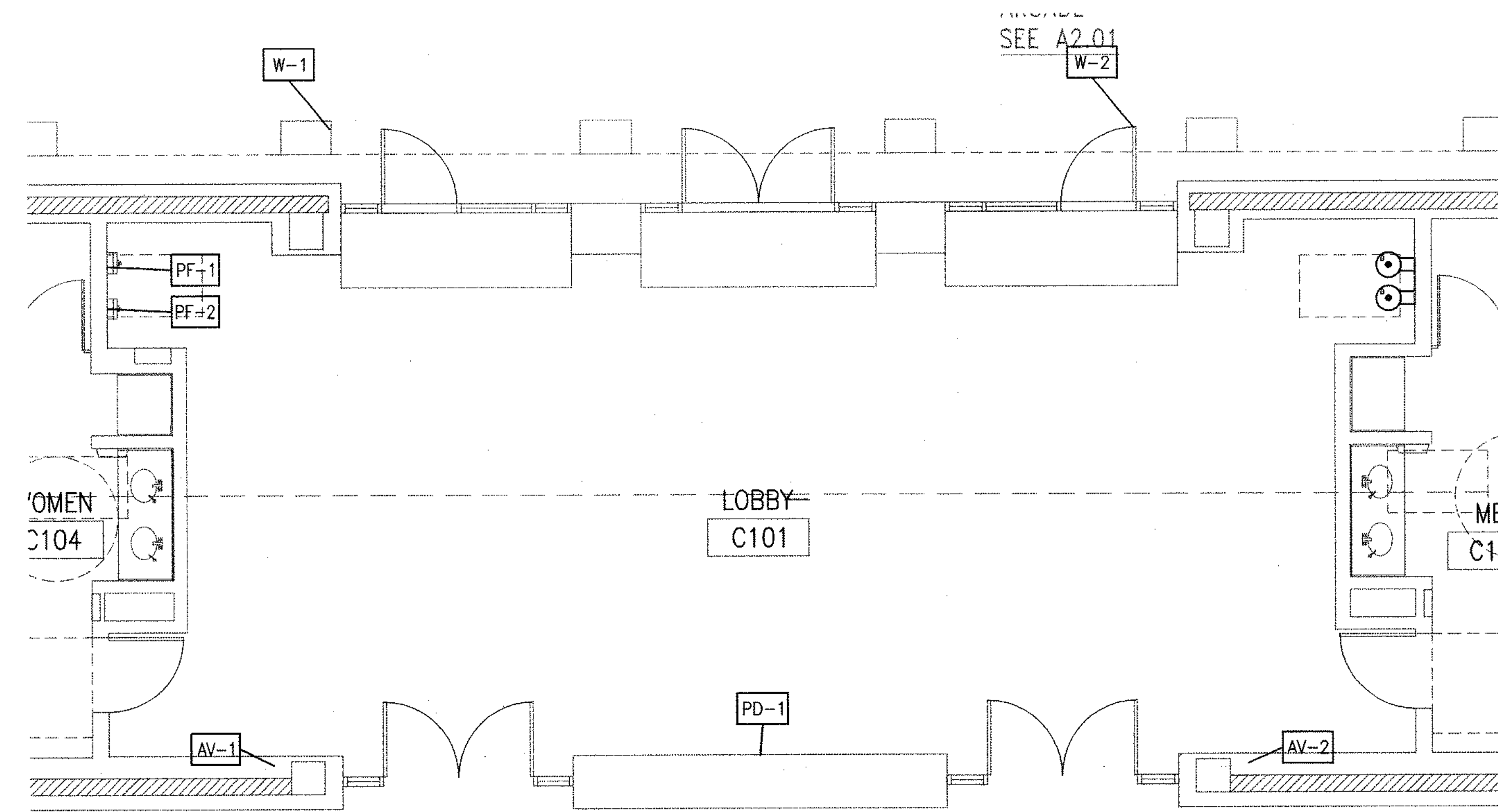
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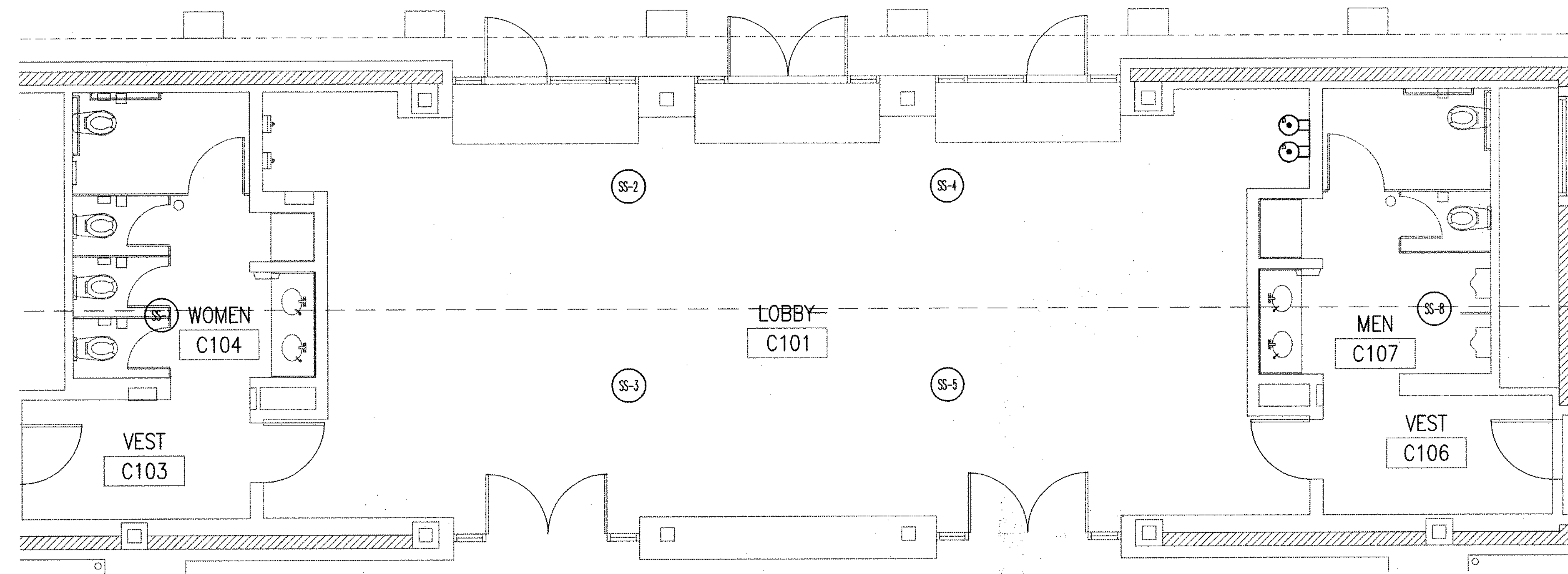
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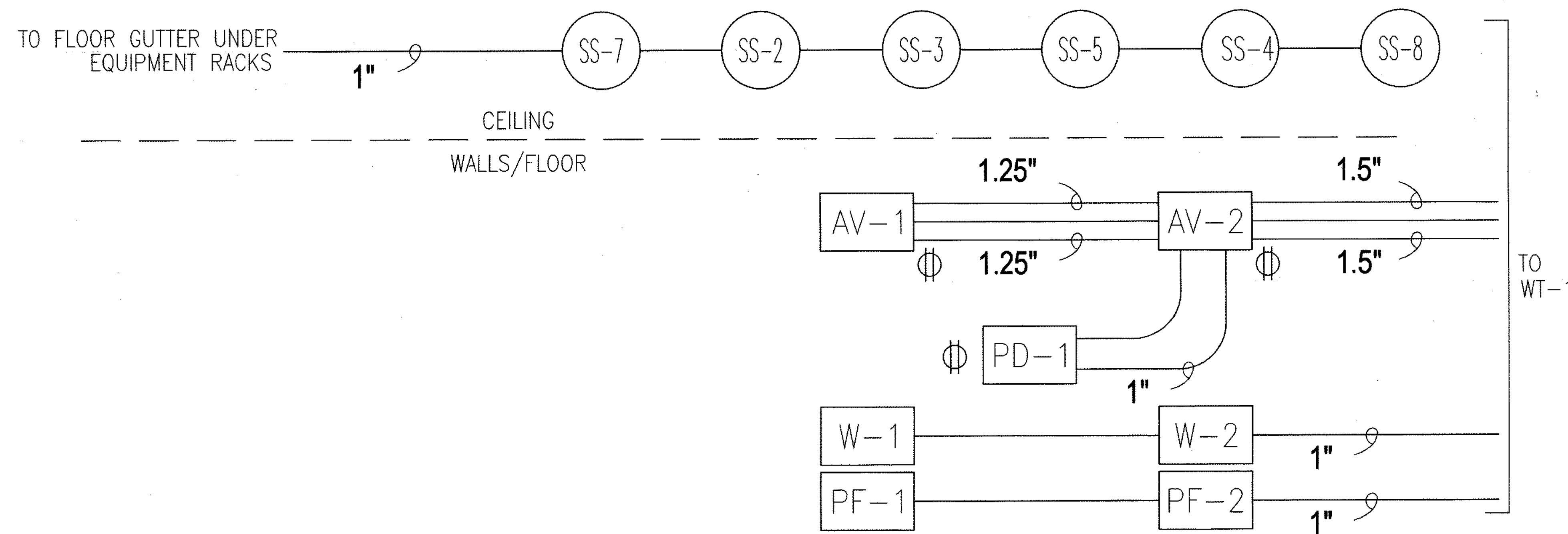
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1 COMMUNITY HALL ROOM 101 ELECTRICAL FOR AUDIOVISUAL FLOORPLAN
1/4" = 1'-0"



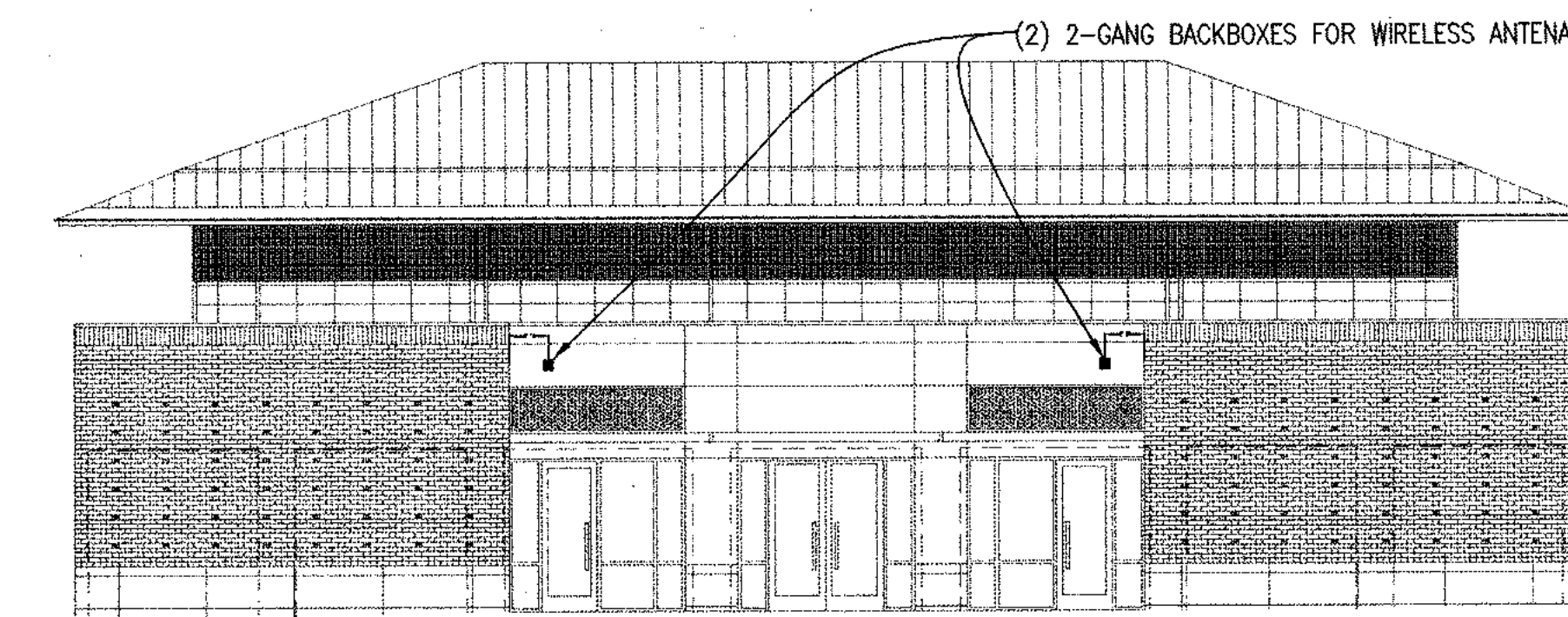
2 COMMUNITY HALL ROOM 101 ELECTRICAL FOR AUDIOVISUAL RCP
1/4" = 1'-0"



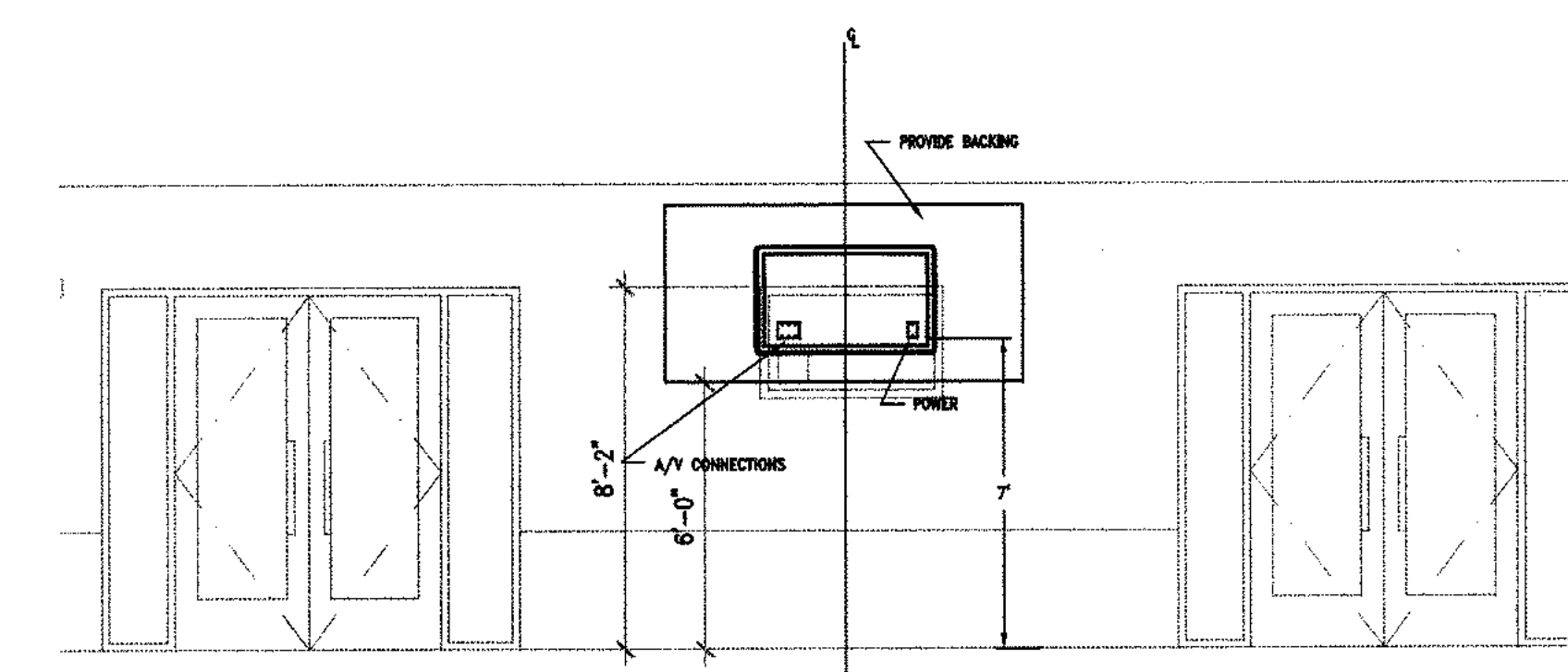
3 COMMUNITY HALL ROOM 101 ELECTRICAL FOR AUDIOVISUAL CONDUIT RISER DIAGRAM
NOTE: ALL CONDUITS 3/4" U.O.N.

ID	ELECTRICAL BACKBOX	ROOM	LOCATION	A/V DESCRIPTION	POWER REQUIREMENTS	RECOMMENDED DATA REQUIREMENTS
AV-1	4 GANG MASONRY	102	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX	ADJACENT NETWORK DROP
AV-2	4 GANG MASONRY	105	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX	ADJACENT NETWORK DROP
SS2	ATLAS SOUND FA-97NK	101	FLUSH CEILING	CEILING LOUDSPEAKER	NONE	NONE
SS3	ATLAS SOUND FA-97NK	101	FLUSH CEILING	CEILING LOUDSPEAKER	NONE	NONE
SS4	ATLAS SOUND FA-97NK	101	FLUSH CEILING	CEILING LOUDSPEAKER	NONE	NONE
SS5	ATLAS SOUND FA-97NK	101	FLUSH CEILING	CEILING LOUDSPEAKER	NONE	NONE
SS7	ATLAS SOUND FA-97NK	104	FLUSH CEILING	CEILING LOUDSPEAKER	NONE	NONE
SS8	ATLAS SOUND FA-97NK	107	FLUSH CEILING	CEILING LOUDSPEAKER	NONE	NONE
PD-1	3 GANG J-BOX	101	7'-0"	PLASMA DISPLAY	ADJACENT AC DUPLEX	NONE
W-1	2 GANG J-BOX	WEST EXTERIOR FASCAD	SEE DETAIL 5	OUTDOOR WIRELESS MIC SYSTEM	NONE	NONE
W-2	2 GANG J-BOX	WEST EXTERIOR FASCAD	SEE DETAIL 5	OUTDOOR WIRELESS MIC SYSTEM	NONE	NONE
PF-1	1 GANG J-BOX	101	SEE A5.20	PUBLIC PAY PHONE	ADJACENT AC DUPLEX	1 RUN OF CAT 5E/6 CABLE
PF-2	1 GANG J-BOX	101	SEE A5.20	PUBLIC PAY PHONE	ADJACENT AC DUPLEX	1 RUN OF CAT5E/6 CABLE

4 COMMUNITY HALL ROOM 101 ELECTRICAL FOR AUDIOVISUAL BACKBOX SCHEDULE
NOTE: PROVIDE & INSTALL DEDICATED AC DUPLEXES ADJACENT TO INDICATED RECEPTACLE PLATES.



5 WEST ELEVATION: WIRELESS MIC BACKBOX LOCATIONS S %%
NOTE: NOT TO SCALE, SHOWN FOR INTENT ONLY.



6 PLASMA SCREEN ELEVATION (PD-1)
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Hargreaves
Associates
2023 17th Street
San Francisco, CA 94103
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Forell/Elesser
Engineers, Inc.
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San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

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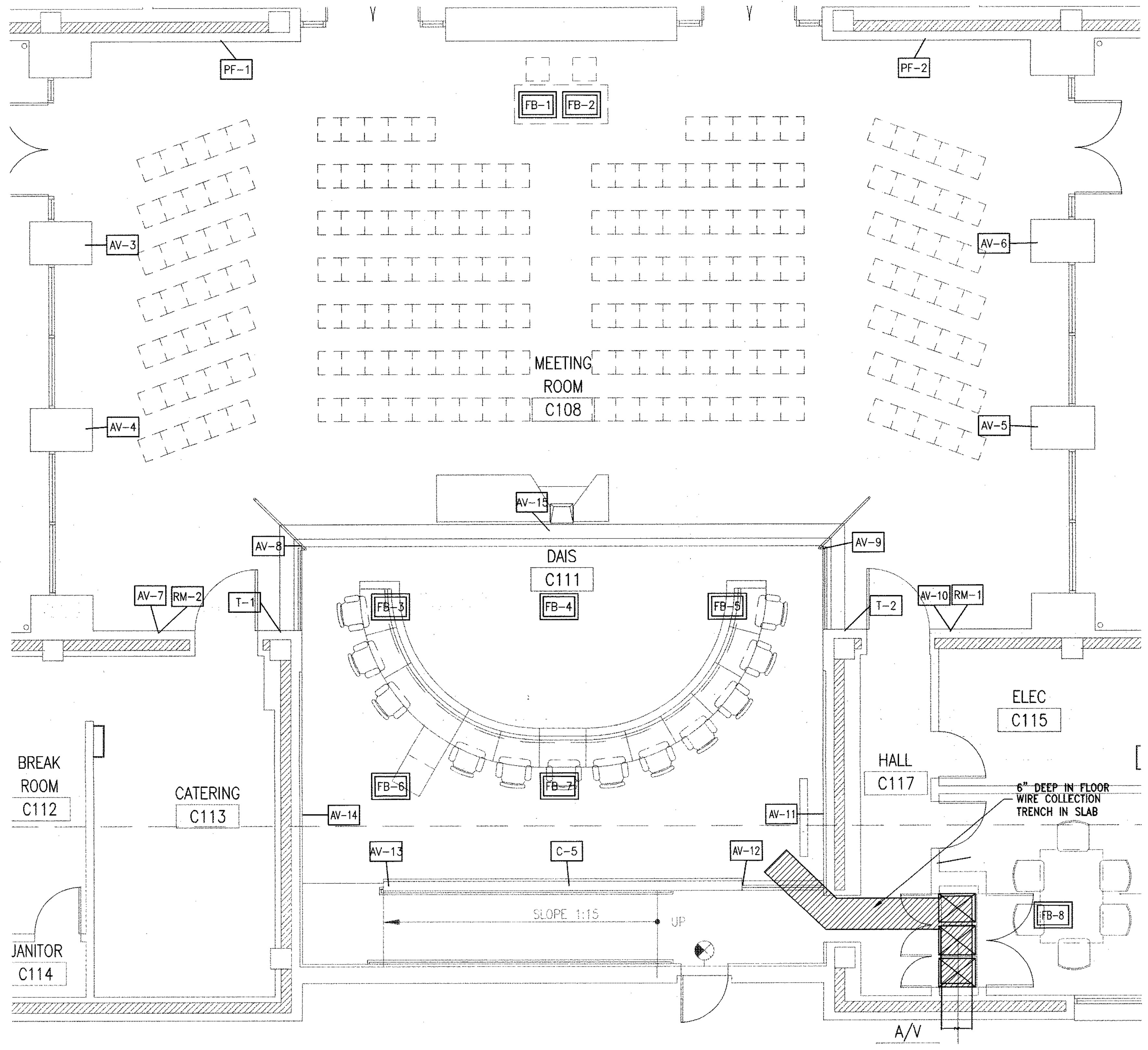
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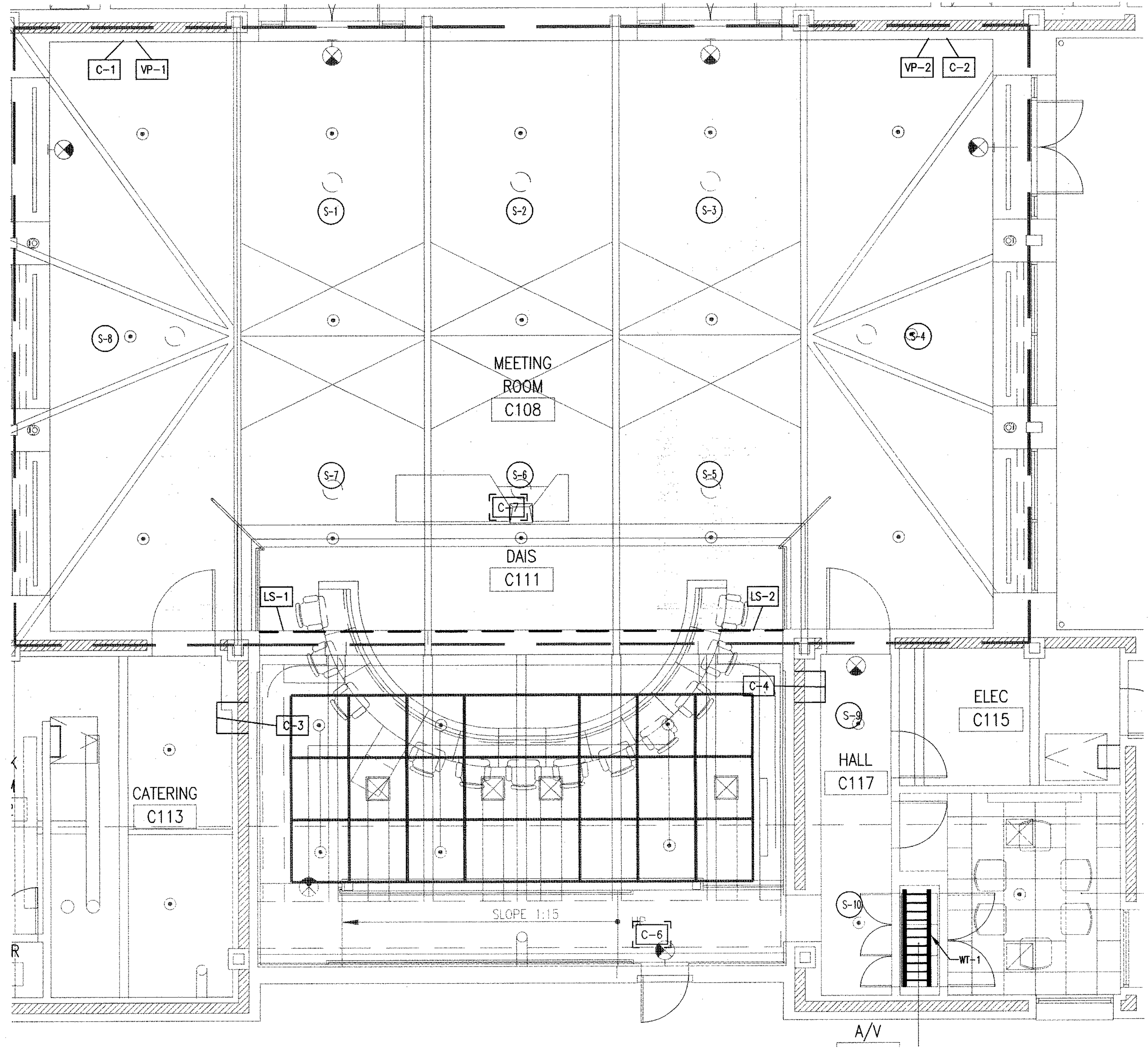
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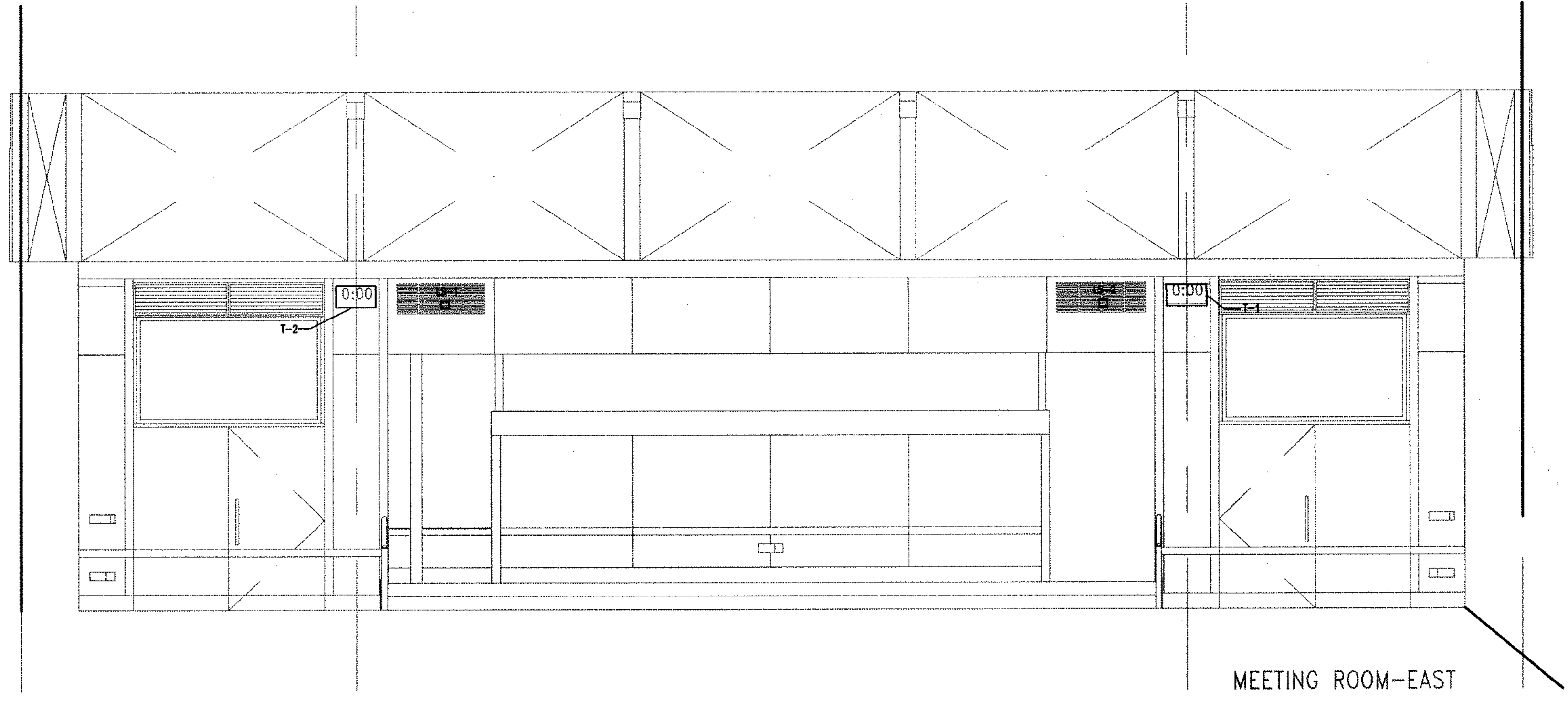
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1 COMMUNITY HALL FLOOR PLAN
1/4" = 1'-0"



2 COMMUNITY HALL REFLECTED CEILING PLAN
1/4" = 1'-0" NOTE: NO A/V ELECTRICAL NEEDS IN CEILING AT THIS TIME.



3 COMMUNITY HALL SECTION VIEW
1/4" = 1'-0" NOTE: SEE ARCH DWGS. FOR EXACT LOCATION AND CONSTRUCTION TECHNIQUES OF LOUSPEAKER NICHES SHOWN ABOVE.

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916 435 2400 T
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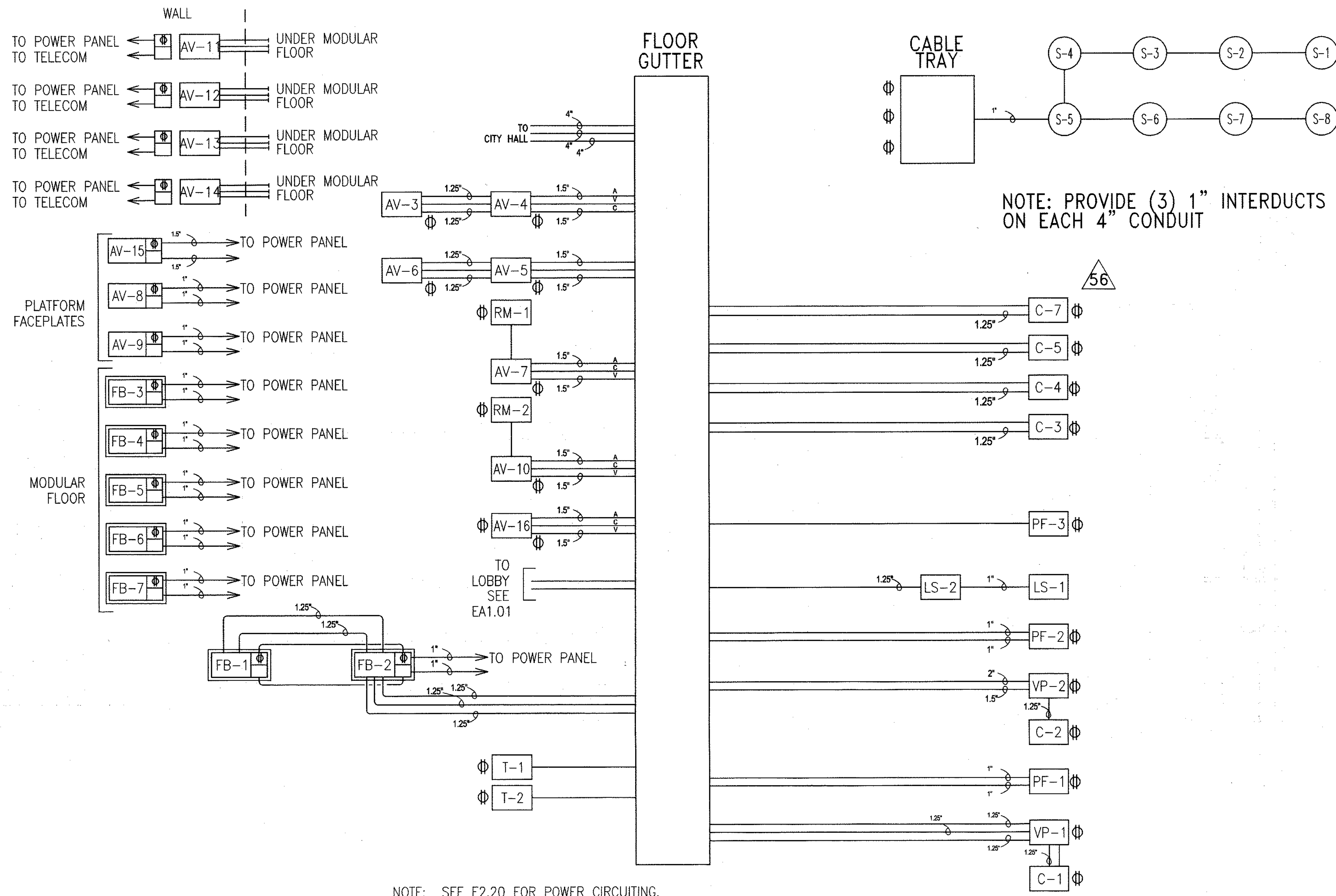
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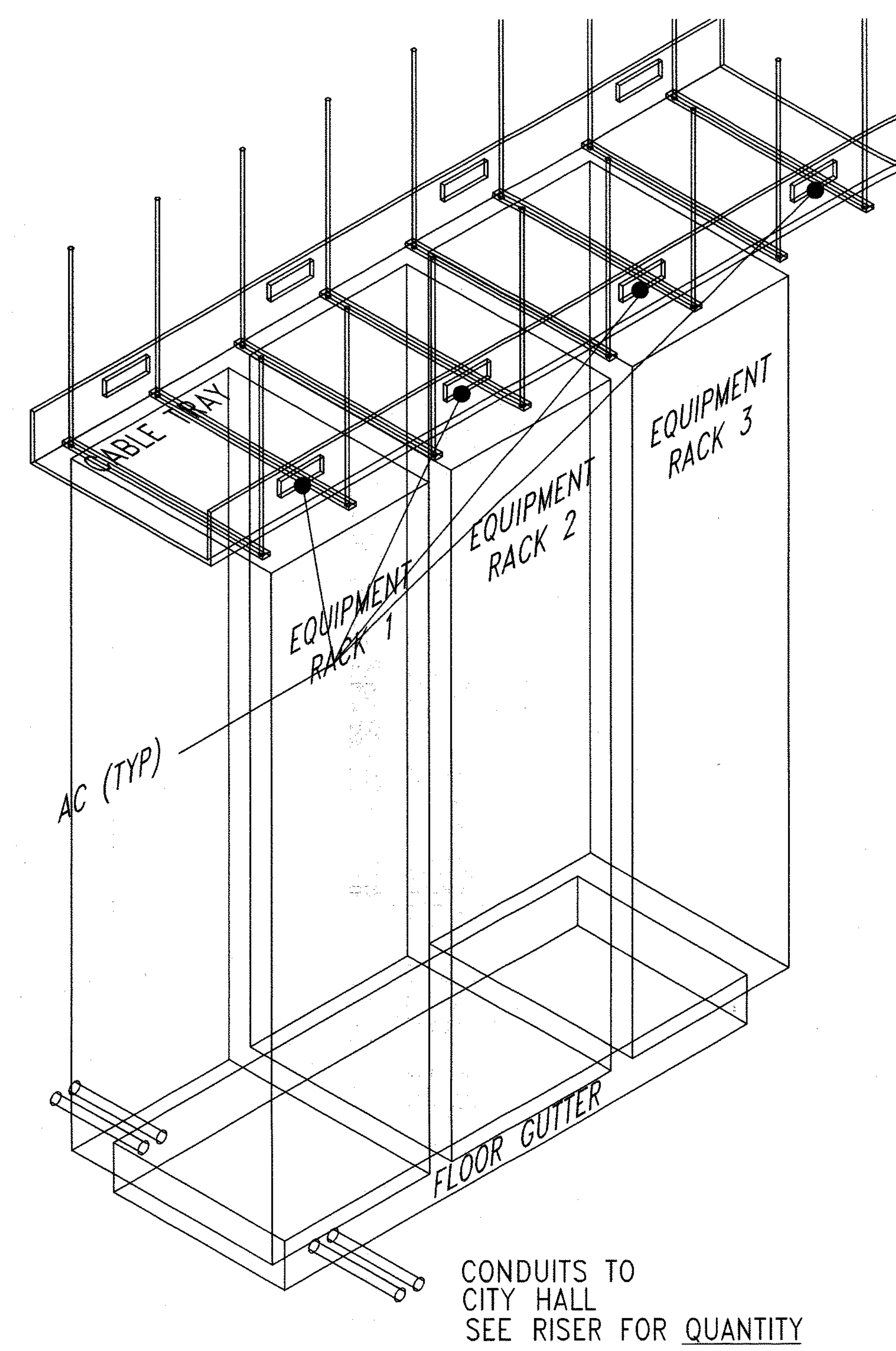
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NOTE: SEE E2.20 FOR POWER CIRCUITING.

1 CONDUIT RISER DIAGRAM: ROOMS 108, 111, 115, 116
NOTE: ALL CONDUITS 3/4" U.O.N.



2 EQUIPMENT RACK, FLOOR GUTTER AND CABLE TRAY DETAIL

NOTE:
FLOOR GUTTER IS 2'-0" WIDE
BY 6" DEEP BLOCK-OUT

ID	ELECTRICAL BACKBOX	ROOM	LOCATION	A/V DESCRIPTION	POWER REQUIREMENTS
AV-3	6X8X4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-4	6X8X4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-5	6X8X4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-6	6X8X4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-7	6X8X4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-8	4 GANG J-BOX	108	PLATFORM EDGE	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-9	4 GANG J-BOX	108	PLATFORM EDGE	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-10	4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-11	4 GANG J-BOX	111	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-12	4 GANG J-BOX	111	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-13	4 GANG J-BOX	111	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-14	4 GANG J-BOX	111	18" AFF	AV JUNCTION BOX	ADJACENT AC DUPLEX
AV-15	6 GANG J-BOX	108	PLATFORM EDGE	AV JUNCTION BOX	ADJACENT AC QUAD
AV-16	4 GANG J-BOX	108	18" AFF	AV JUNCTION BOX	ADJACENT AC QUAD
LS-1	2 GANG MASONRY	108	SEE DETAIL 3	LOUDSPEAKER	NONE
LS-2	2 GANG MASONRY	108	SEE DETAIL 3	LOUDSPEAKER	NONE
C-1	2 GANG J-BOX	108	8'-6" AFF	CAMERA LOCATION	ADJACENT AC DUPLEX
C-2	2 GANG J-BOX	108	8'-6" AFF	CAMERA LOCATION	ADJACENT AC DUPLEX
C-3	6X8X4 GANG J-BOX	111	6'-9" AFF	CAMERA LOCATION	ADJACENT AC DUPLEX
C-4	6X8X4 GANG J-BOX	111	6'-9" AFF	CAMERA LOCATION	ADJACENT AC DUPLEX
C-5	2 GANG J-BOX	111	6'-8" AFF	CAMERA LOCATION	ADJACENT AC DUPLEX
VP-1	4 GANG J-BOX	108	8'-6" AFF	VIDEO PROJECTOR	ADJACENT AC DUPLEX
VP-2	4 GANG J-BOX	108	8'-6" AFF	VIDEO PROJECTOR	ADJACENT AC DUPLEX
PF-1	4 GANG J-BOX	108	8'-4" AFF	PRESS FEED	ADJACENT AC DUPLEX
PF-2	5 GANG J-BOX	108	18" AFF	PRESS FEED	ADJACENT AC DUPLEX
PF-3	1 GANG J-BOX	116	50" AFF	PHONE	NONE
FB-1	5 GANG J-BOX	108	18" AFF	A/V FLOORBOX	INTERNAL QUAD AC DUPLEX IN 2 GANG COMPARTMENT
FB-2	FSR FL-600P (SEE NOTE AND DETAIL)	108	FLOOR	A/V FLOORBOX	INTERNAL QUAD AC DUPLEX IN 2 GANG COMPARTMENT
FB-3	FSR FL-600P (SEE NOTE AND DETAIL)	108	FLOOR	AV FLOORBOX	INTERNAL AC DUPLEX
FB-4	FSR-FL600	111	IN MODULAR FLOOR	AV FLOORBOX	INTERNAL AC DUPLEX
FB-5	FSR-FL600	111	IN MODULAR FLOOR	AV FLOORBOX	INTERNAL AC DUPLEX
FB-6	FSR-FL600	111	IN MODULAR FLOOR	AV FLOORBOX	INTERNAL AC DUPLEX
FB-7	FSR-FL600	111	IN MODULAR FLOOR	AV FLOORBOX	INTERNAL AC DUPLEX
RM-1	2 GANG J-BOX	116	48" AFF	REMOTE CONTROL PANEL	NONE
RM-2	2 GANG J-BOX	108	48" AFF	REMOTE CONTROL PANEL	NONE
S-x	LOUDSPEAKER ENCLOSURE	108	FLUSH CEILING	ATLAS SOUND Q-408	NONE
WT-1	CABLE TRAY	118	ABOVE EQUIPMENT RACKS	CABLE TRAY	NONE
T-1	ARCATRON BACKBOXES FOR CLOCKS	118	IN MTG. RM - EAST WALL	SEE ARCATRAN CUTSHEET	INTERNAL AC DUPLEX
T-2	ARCATRAN BACKBOXES FOR CLOCKS	118	IN MTG. RM - EAST WALL	SEE ARCATRAN CUTSHEET	INTERNAL AC DUPLEX

3 CONDUIT BACKBOX SCHEDULE: ROOMS 108, 111, 115, 116

NOTE: ADJACENT AC DUPLEXES TO BE SERVED BY CIRCUITS WITH NO INDUCTIVE LOADS.
NOTE: ATLAS SOUND CONTACT INFORMATION: WARREN & ASSOCIATES (925) 449-9000
NOTE: ARCATRAN CONTACT INFORMATION: ARCATRAN (602) 843-2589

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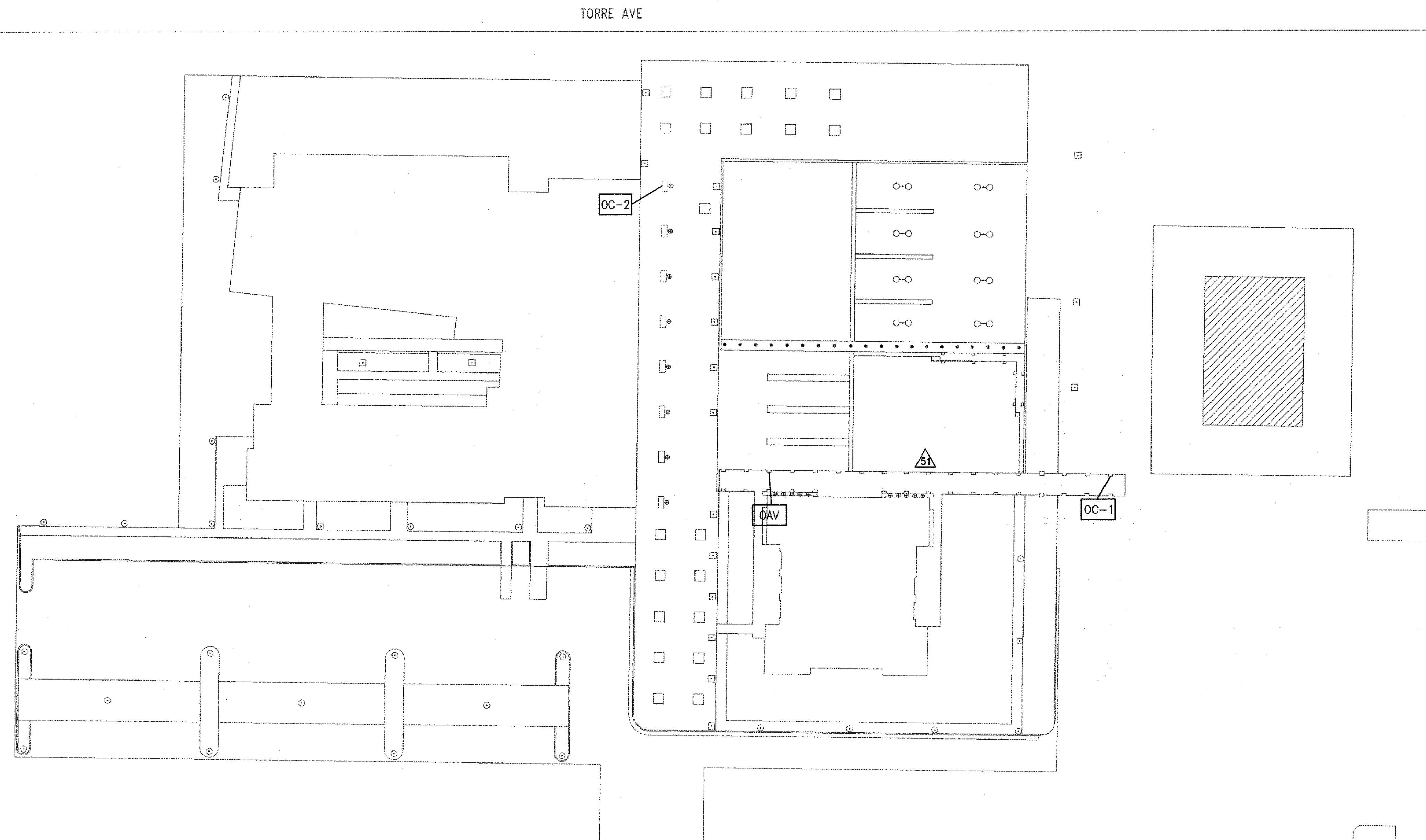
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CONDUIT FOR
ROOMS 108,
111, 115, 116

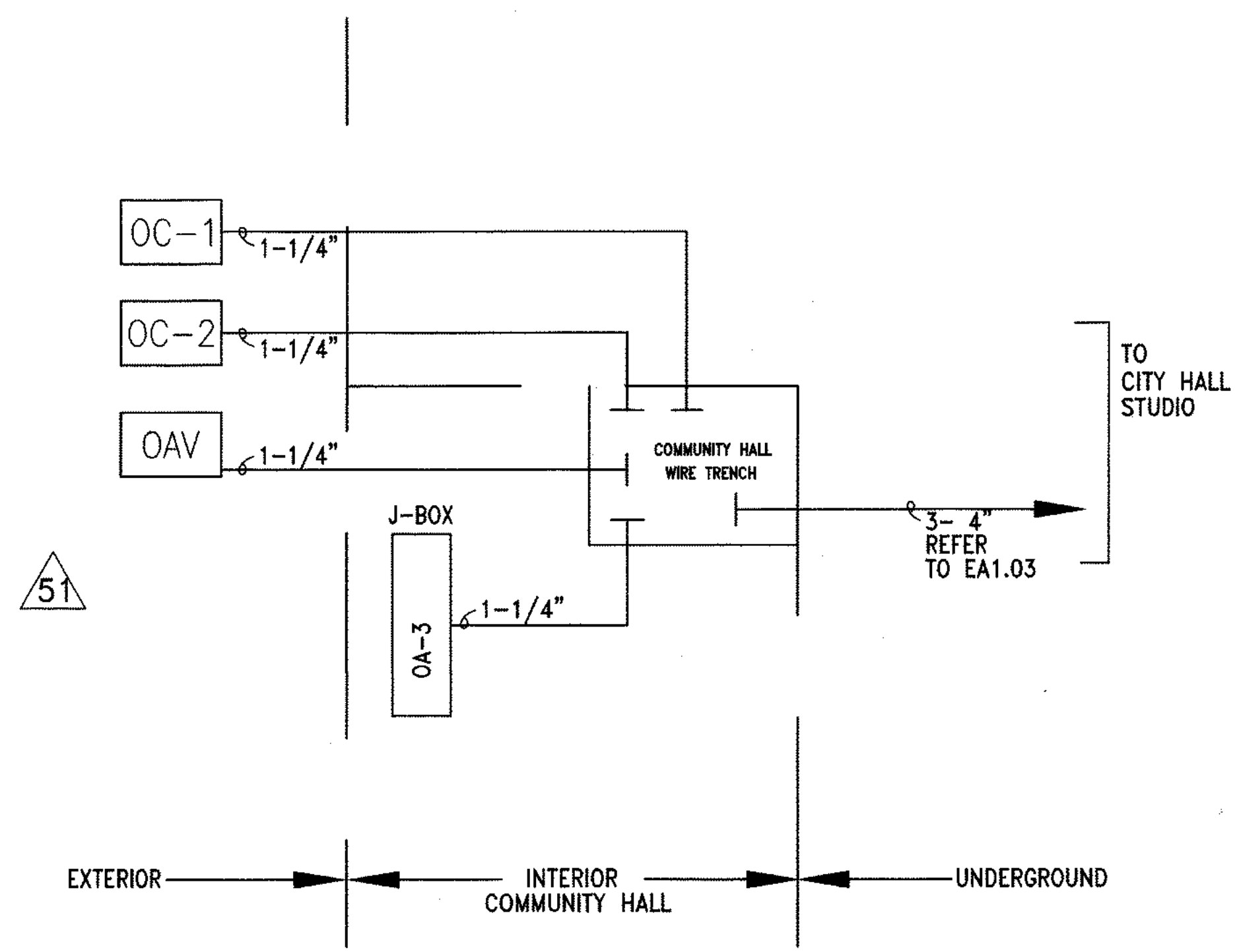
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1 SITE PLAN
SCALE: 1/32" = 1'-0"



2 CONDUIT RISER DIAGRAM

ID	ELECTRICAL BACKBOX DESCRIPTION	DESCRIPTION	MOUNTING
OC1	16"x12"x6" NEMA TYPE 4X STAINLESS STEEL, SINGLE GASKETED DOOR WITH CONTINUOUS HINGE AND PADLOCK LOOP	OUTDOOR CAMERA LOCATION	ON SIDE OF EXISTING CITY HALL
OC2	16"x12"x6" NEMA TYPE 4X STAINLESS STEEL, SINGLE GASKETED DOOR WITH CONTINUOUS HINGE AND PADLOCK LOOP	OUTDOOR CAMERA LOCATION	ON LIBRARY SIDE OF COLUMN
OAV	16"x12"x6" NEMA TYPE 4X STAINLESS STEEL, SINGLE GASKETED DOOR WITH CONTINUOUS HINGE AND PADLOCK LOOP	OUTDOOR A/V LOCATION	ON ARCADE COLUMN + 18" A.F.F.
OA1	NOT USED.		
OA2	NOT USED.		
OA3	4"x4"x6" NEMA TYPE 2 SCREW COVER ENCLOSURE	J-BOX	INSIDE: LOCATE AS NEEDED

NOTE: PROVIDE WEATHERPROOF AC DUPLEXES RATED FOR 20 AMPS AT EACH DEVICE LOCATION.

3 CONDUIT SCHEDULE

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 408 777 3333 F
 owner
 Sandis Humber Jones
 590 Menlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F
 client
 Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F
 landscape
 Forell/Elesser
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F
 structural
 Flack + Kurtz
 452 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415 398 3823 T
 415 433 5311 F
 m.e.p.
 Architectural
 Lighting Design
 270 Brannan Street
 San Francisco, CA 94107
 415 485 4085 T
 415 485 4660 F
 lighting

revisions
 2004.04.13
 CCD No. 49

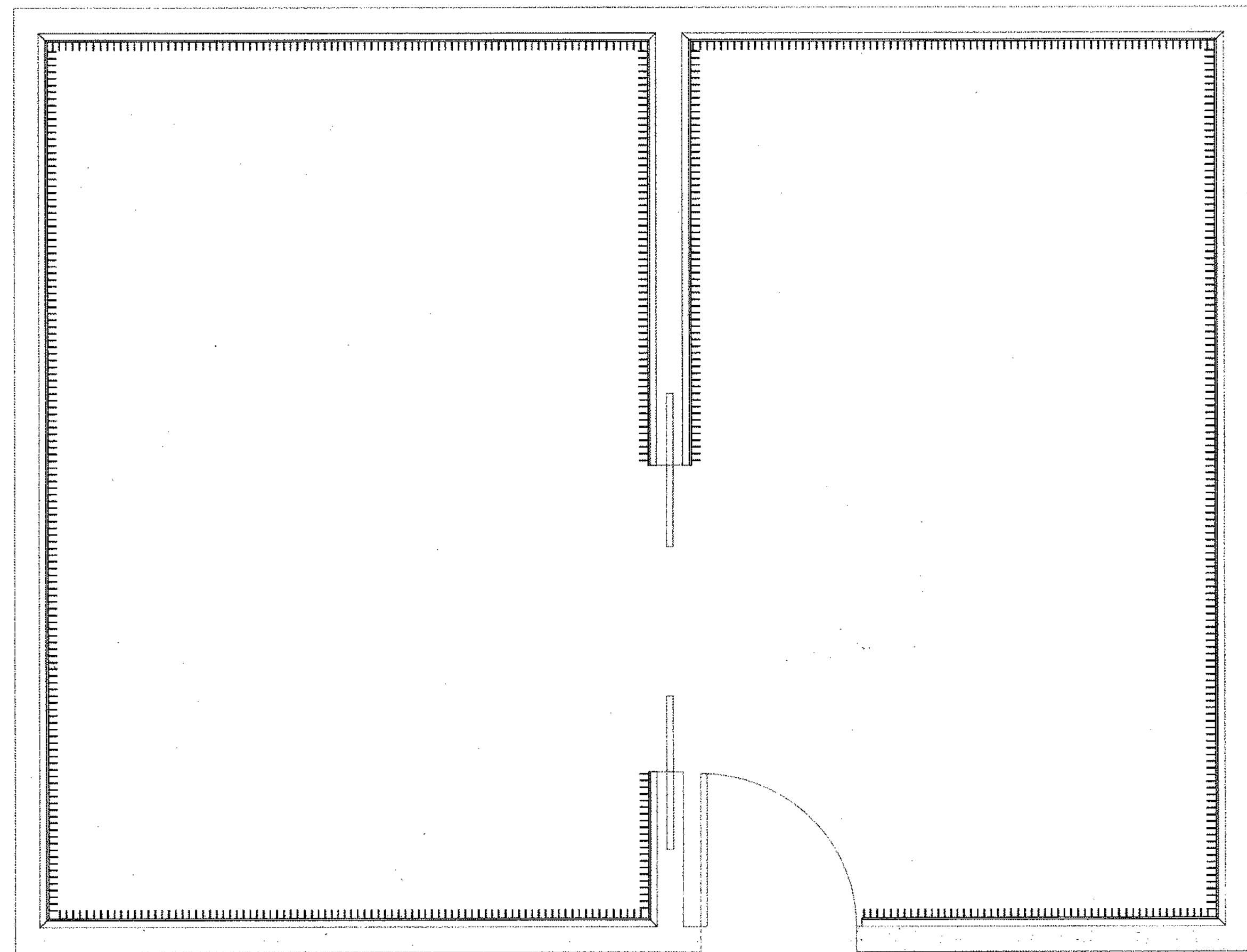
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 Contract Documents**

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ELECTRICAL FOR
 AUDIOVISUAL:
 BUILDING
 EXTERIOR
 AND SITE

scale: AS NOTED date: 2003.04.18
 drawn by: project number: 01.03770.00
 sheet title:

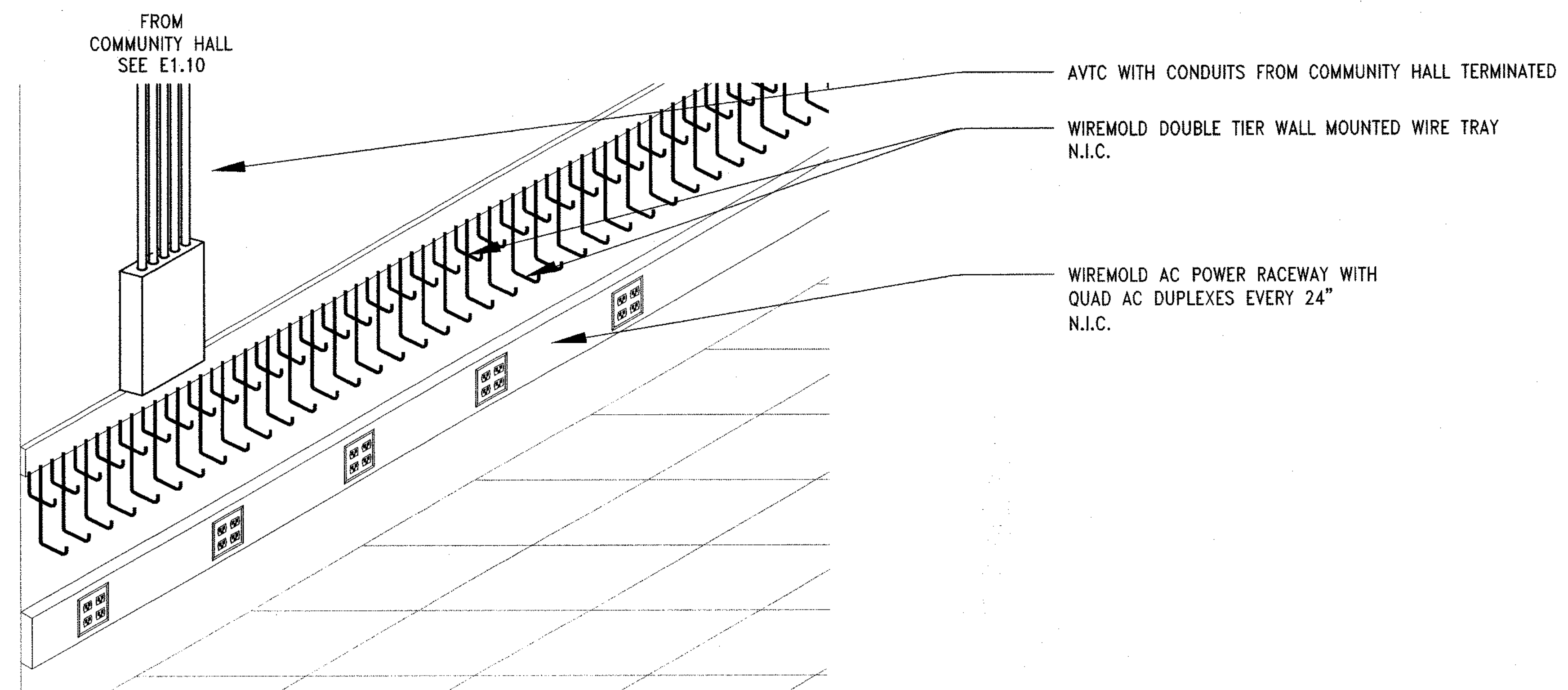
EA1.04



1 CONTROL ROOM ELECTRICAL FOR AUDIOVISUAL FLOORPLAN
1/2" = 1'-0"

CONTROL ROOM ELECTRICAL NOTES: (N.I.C.)

1. AC POWER QUAD RECEPTACLES PROVIDED ON 24" CENTERS.
2. PROVIDE WIREMOLD, "D" SERIES DOUBLE TIER WALL MOUNTED WIRE TRAY WITH 6" RUNG SPACING, 3" TOP DEPTH, 6" BOTTOM DEPTH, AND 6" WIDTH FOR ALL RUNGS.
3. ALL CONDUITS TERMINATED AT AVTC'S OR RACEWAYS UNLESS OTHERWISE NOTED.
4. MAINTAIN 12" SEPARATION BETWEEN A/V/T SIGNALS AND ELECTRICAL BEARING CONDUITS WHENEVER POSSIBLE.
5. ALL AUDIOVISUAL DEVICES AND EQUIPMENT SHALL BE SERVED BY CIRCUITS DEDICATED FOR A/V USE.
6. NO INDUCTIVE LOADS ON A/V CIRCUITS.
7. ALL ELECTRICAL OUTLETS SERVING A/V JUNCTION BOXES TO BE SERVED BY CIRCUITS DEDICATED FOR A/V USE WITH NO INDUCTIVE LOADS.
8. GROUND AC POWER CIRCUIT PANELS THAT SERVE AUDIOVISUAL TO BUILDING SERVICE GROUND.
9. PROVIDE LABELLED PULL STRINGS IN ALL A/V CONDUITS.
10. MARK AND IDENTIFY ALL JUNCTION BOXES AND TERMINAL CABINETS.
11. PROVIDE WIREMOLD 4000 SERIES 2 PIECE STEEL RACEWAY SYSTEM FOR AC DUPLEXES.



2 WIREMOLD AND WALL MOUNTED WIRE TRAY DETAIL
NOT TO SCALE

ELECTRICAL NOTES:

1. PROVIDE ACCESS AND TERMINATION OF CONDUITS SHOWN ON EA1.03 AS SHOWN IN DETAIL 2.

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415 546 0400 T
415 882 7086 F
www.sswm.com

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architecture
interiors
planning
graphic design

City of
Cupertino
10440 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flick + Kurtz
405 Howard Street
Suite 500
San Francisco, CA 94105-2673
415 398 3833 T
415 433 5311 F

Architectural
Lighting Design
270 Brannan Street
San Francisco, CA 94107
415 495 4085 T
415 495 4660 F

Cupertino Civic Center
10440 Torre Avenue, Cupertino, CA 95014

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Issue

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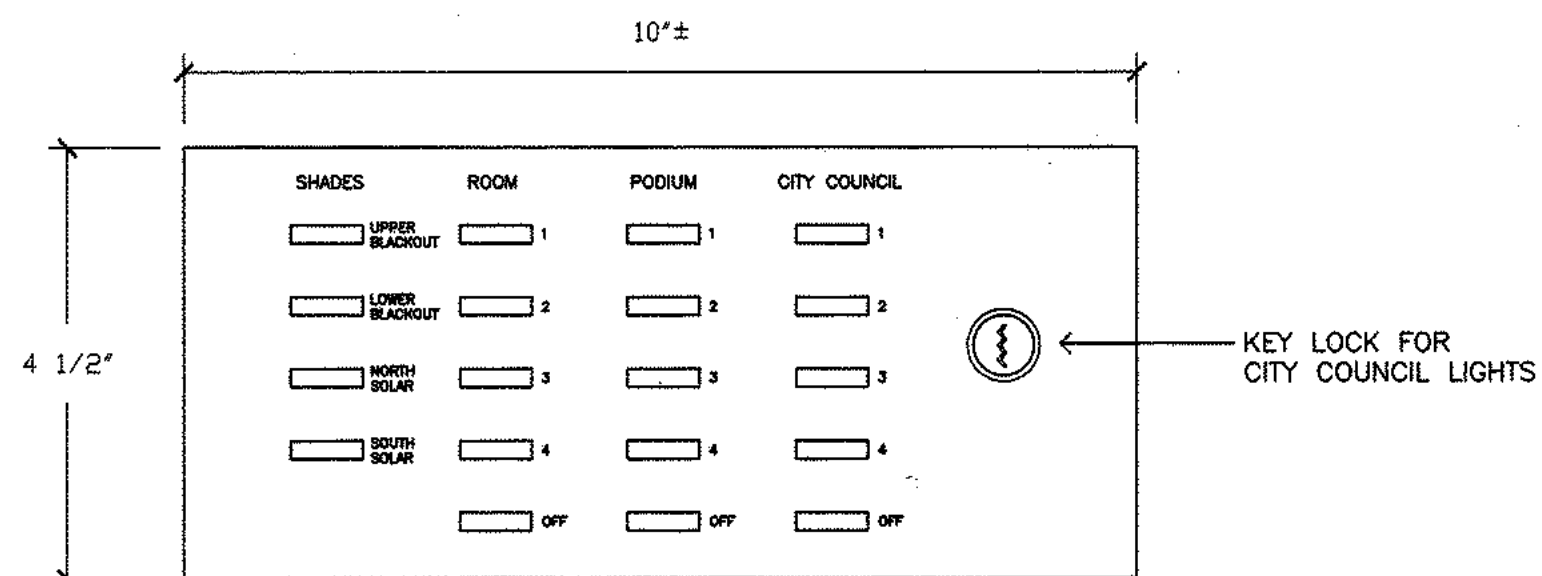
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**ELECTRICAL FOR
AUDIOVISUAL:
CITY HALL
A/V ROOM**

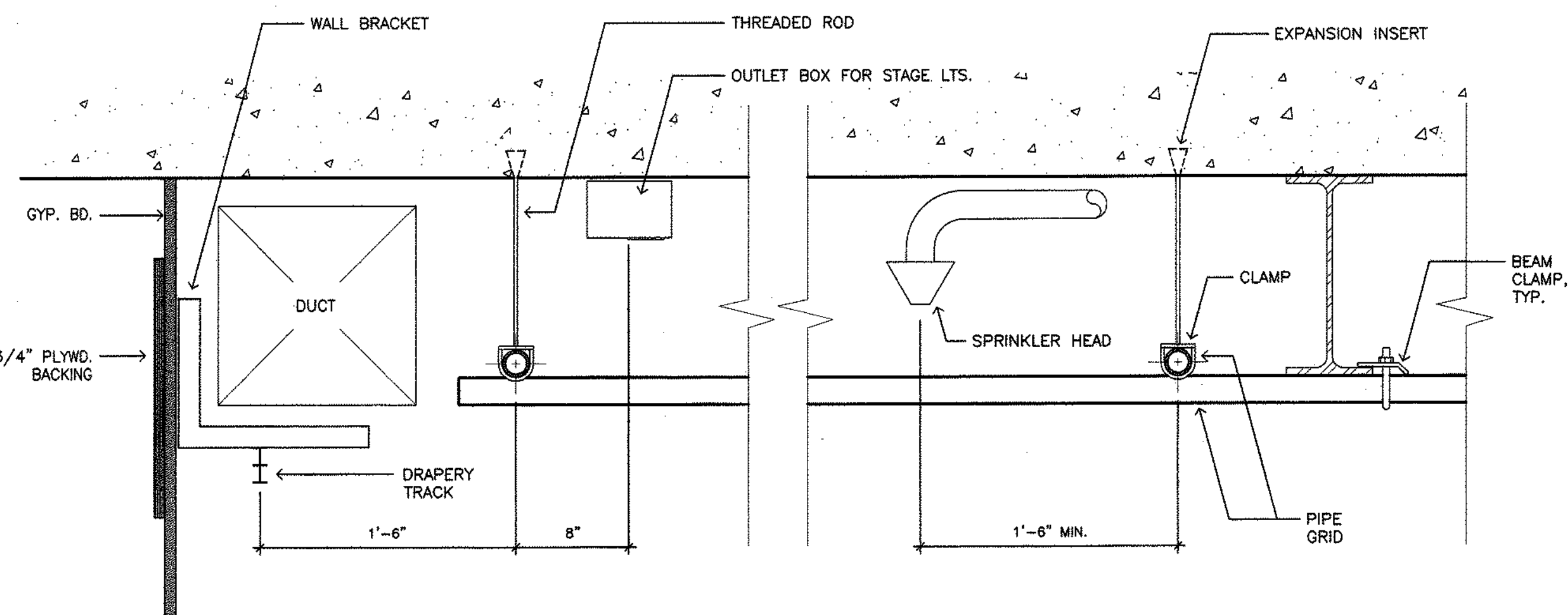
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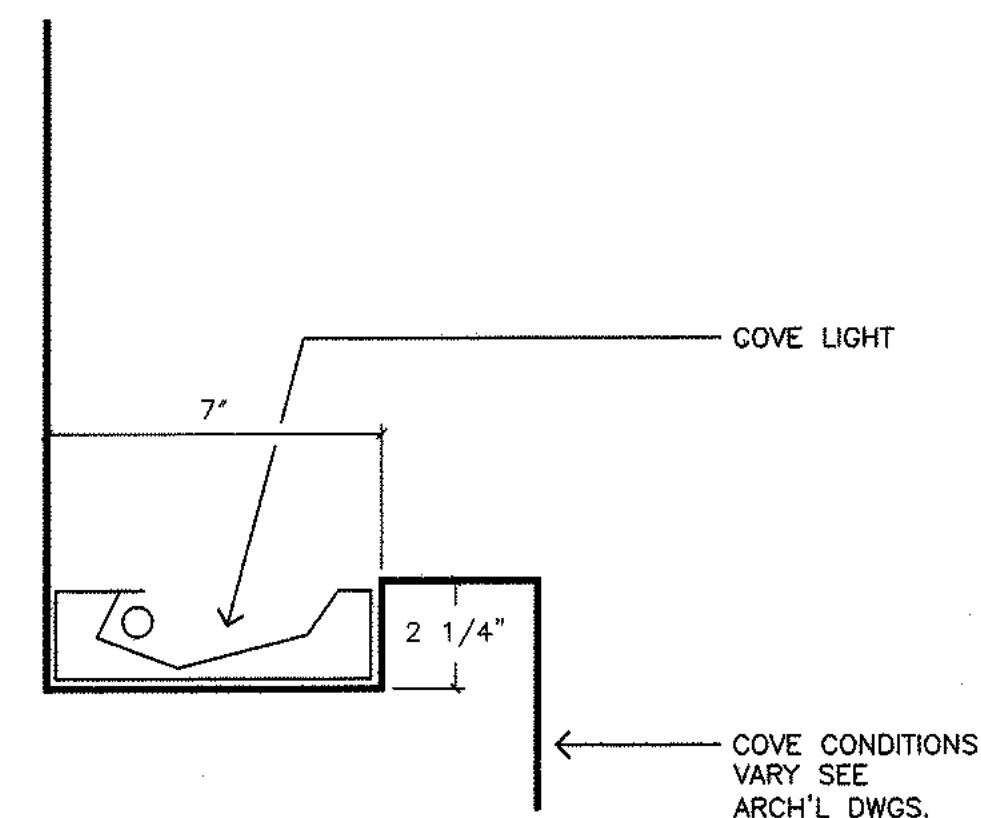
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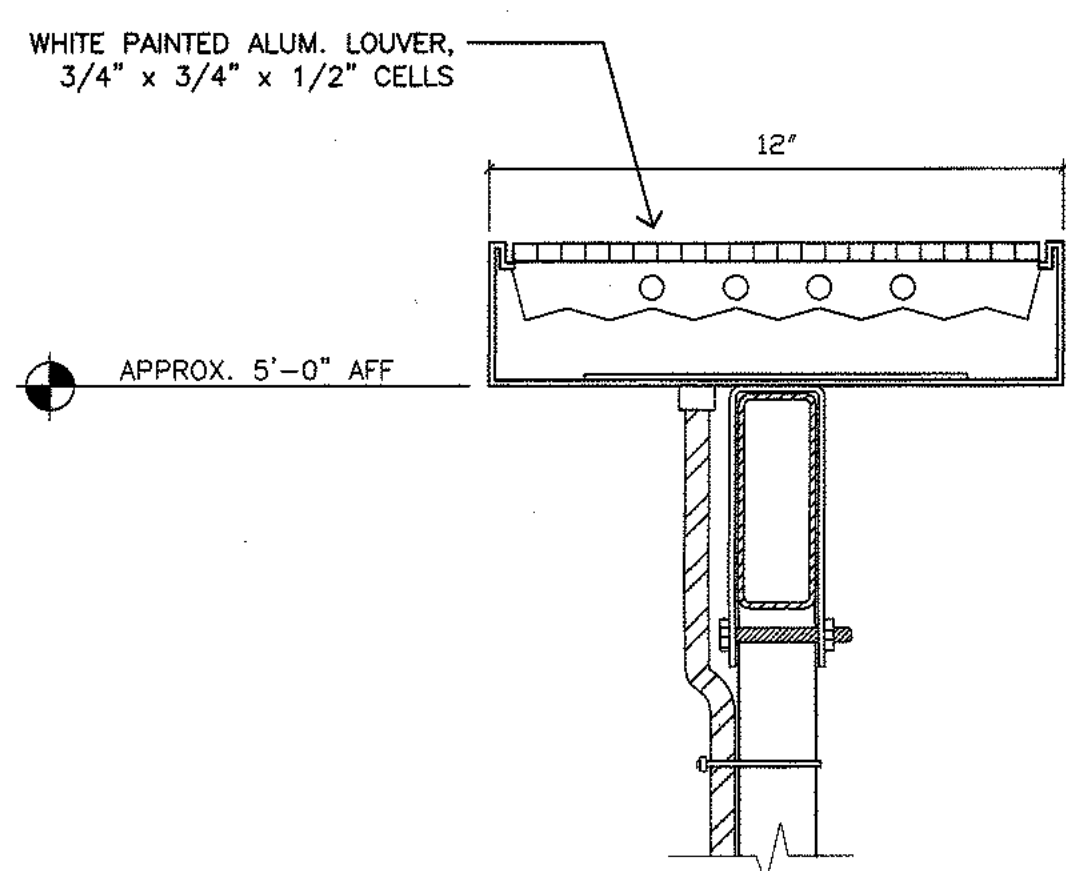
TYP. COMM. HALL LTG. CONTROL STATION
1/2" = 1'-0" 8



PIPE GRID @ COMM. HALL DAIS
1 1/2" = 1'-0" 9

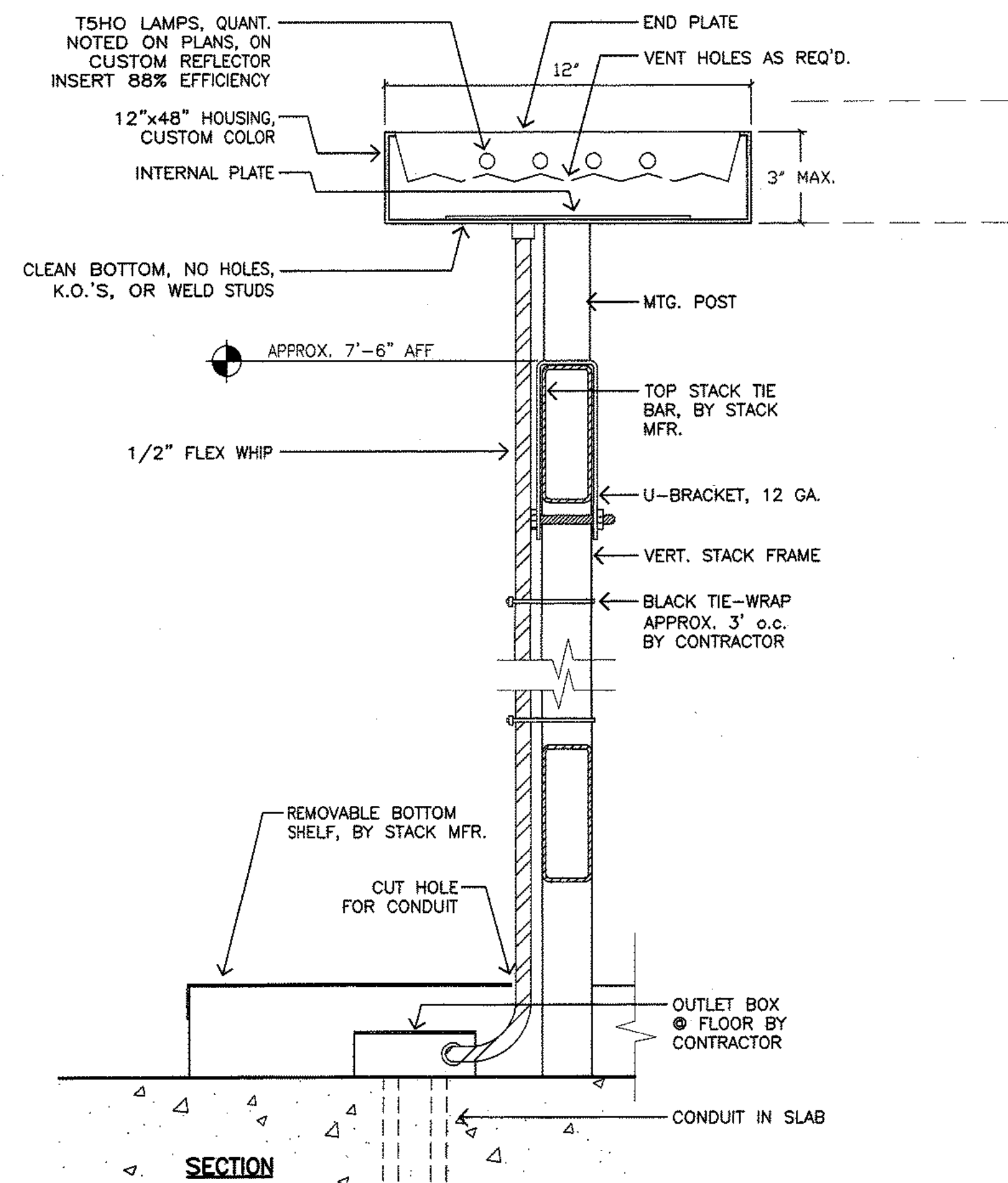


TYPE A7 COVE LIGHT
3" = 1'-0" 10



SEE TYPE A1 DETAIL FOR OTHER NOTES

TYPE A1A - STACK UPLIGHT
3" = 1'-0" 5



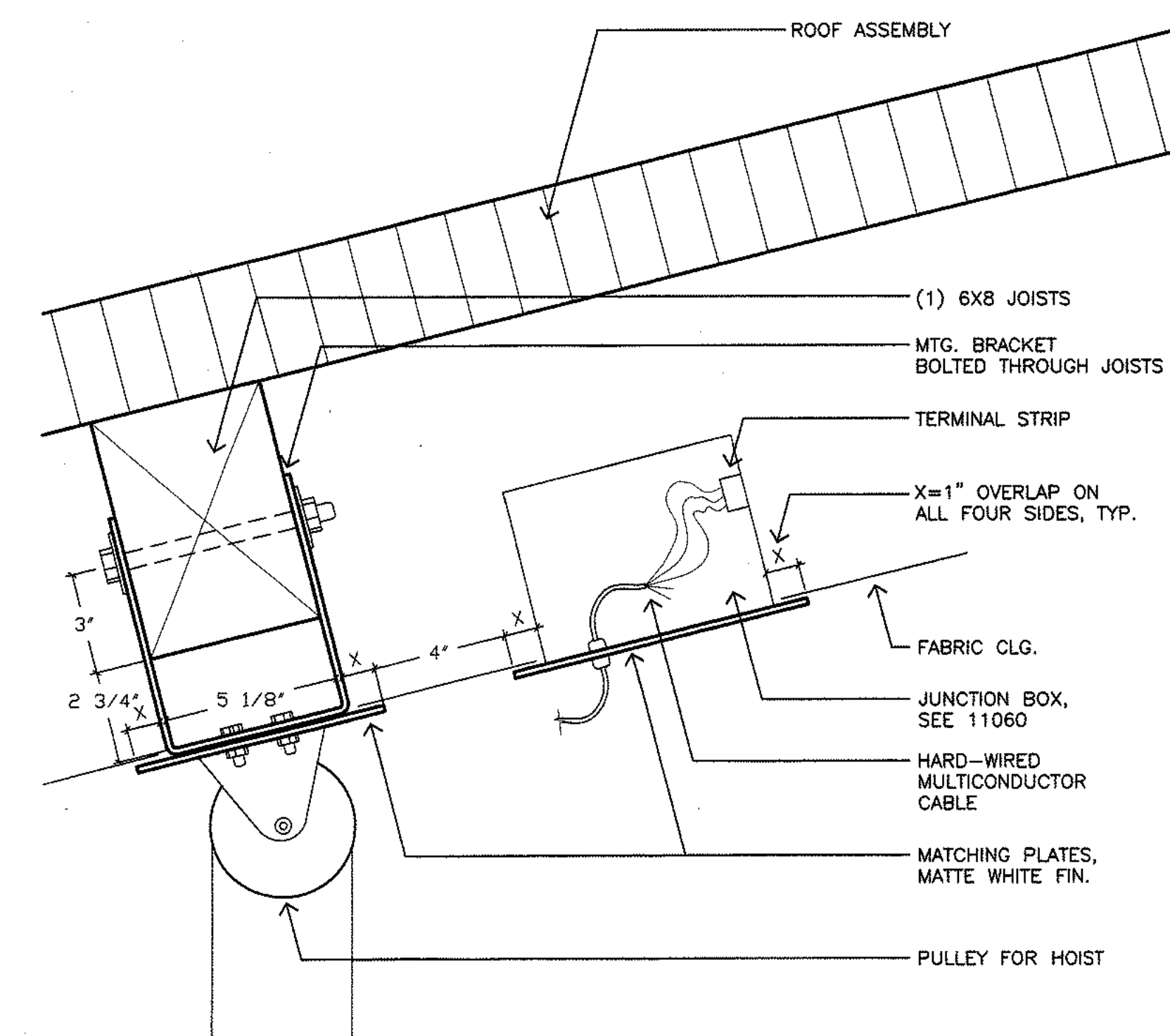
SECTION

SIDE ELEVATION

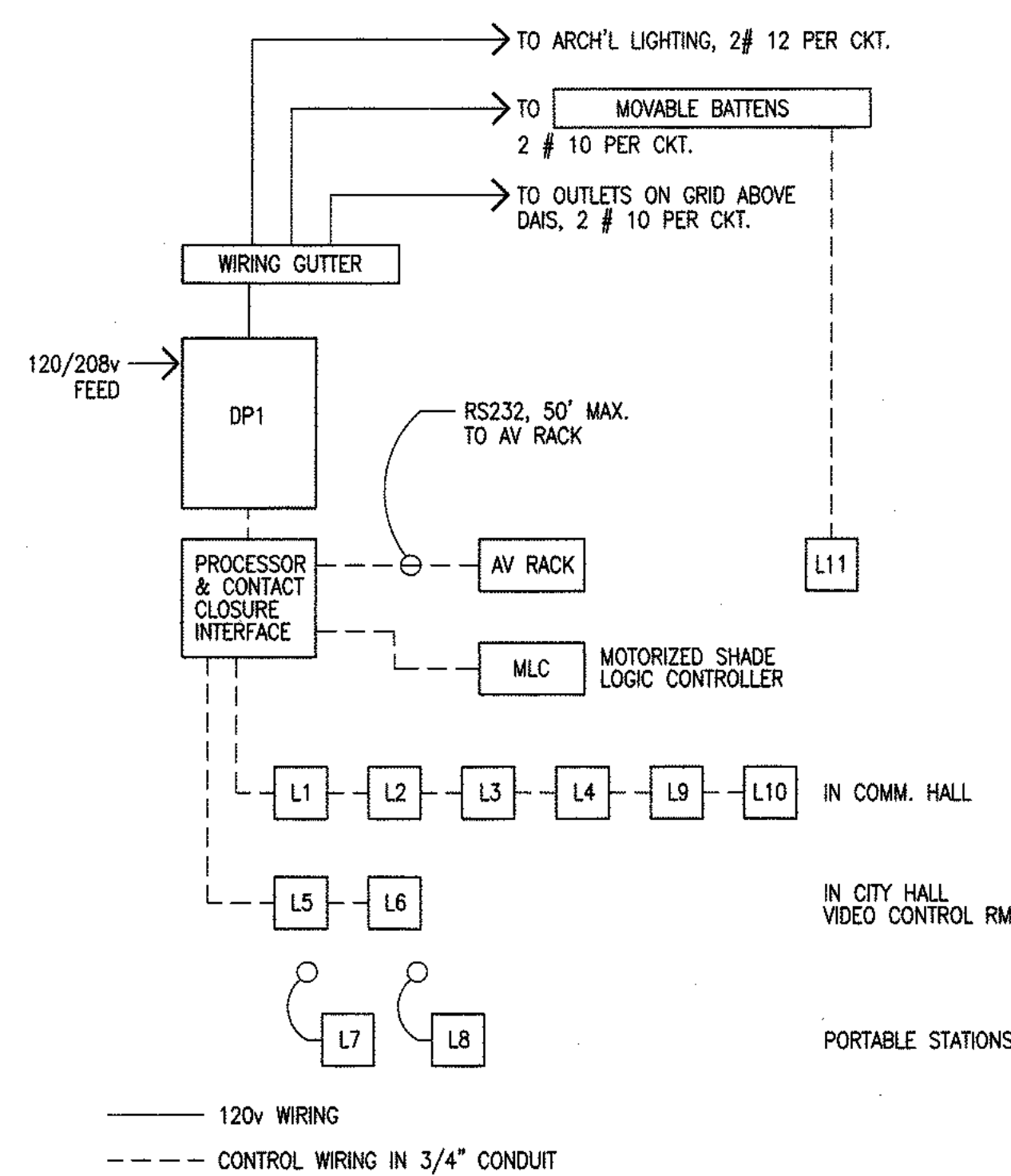
NOTES:

1. ALL PARTS PAINTED TO MATCH STACKS.
2. PROVIDE ONE 4-FT. PRE-PRODUCTION PROTOTYPE W/ U-BRACKETS AND FLEX
3. COORDINATE W/ STACK MFR.
4. ALL PARTS BY FIXT. MFR., U.N.O.
5. PROVIDE 0-10v DIMMING BALLASTS, ADVANCE MARK VII OR EQUAL, COORD. WITH WIRING & DAYLIGHT SENSING SYSTEM.

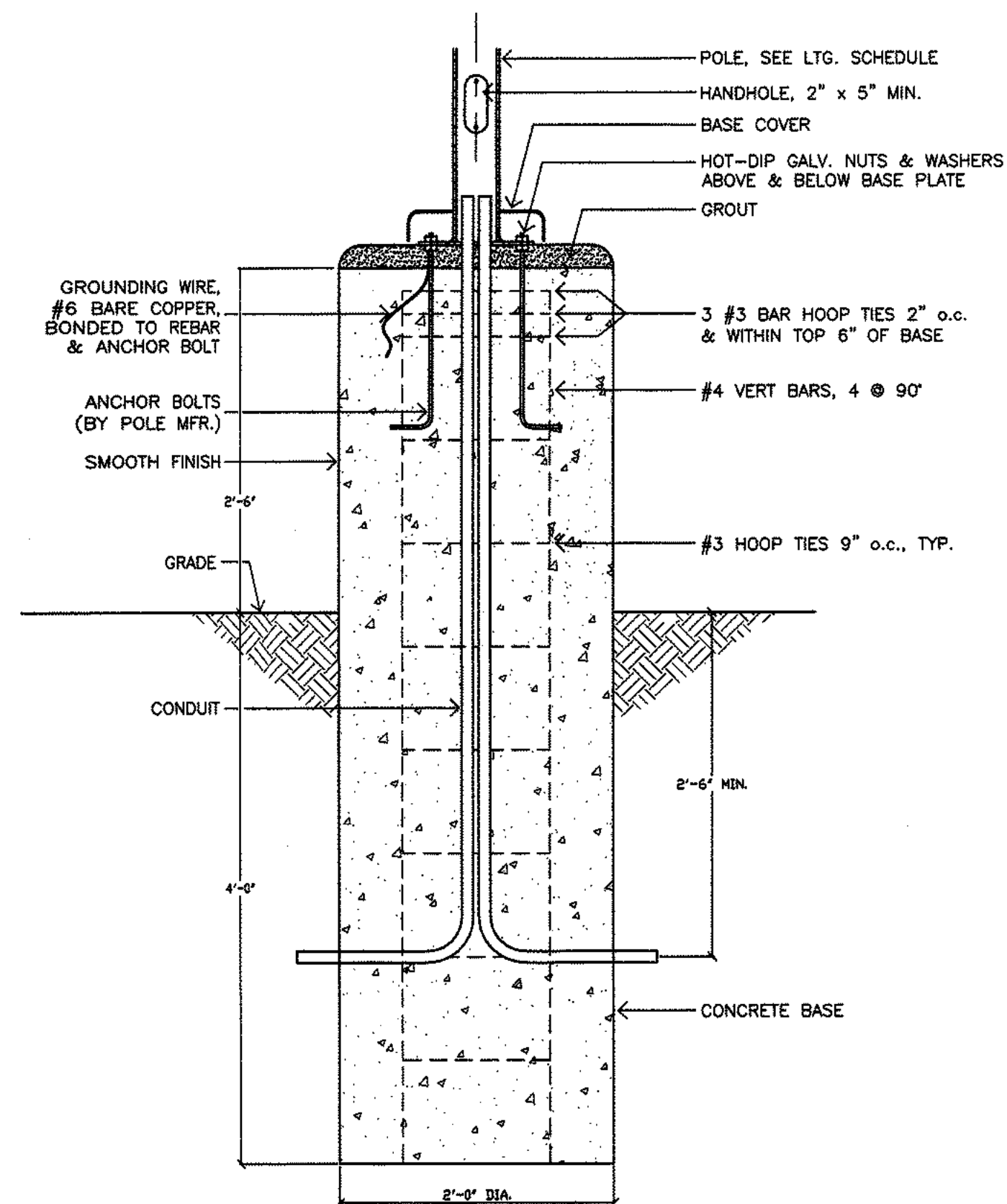
TYPE A1 - STACK UPLIGHT
3" = 1'-0" 6



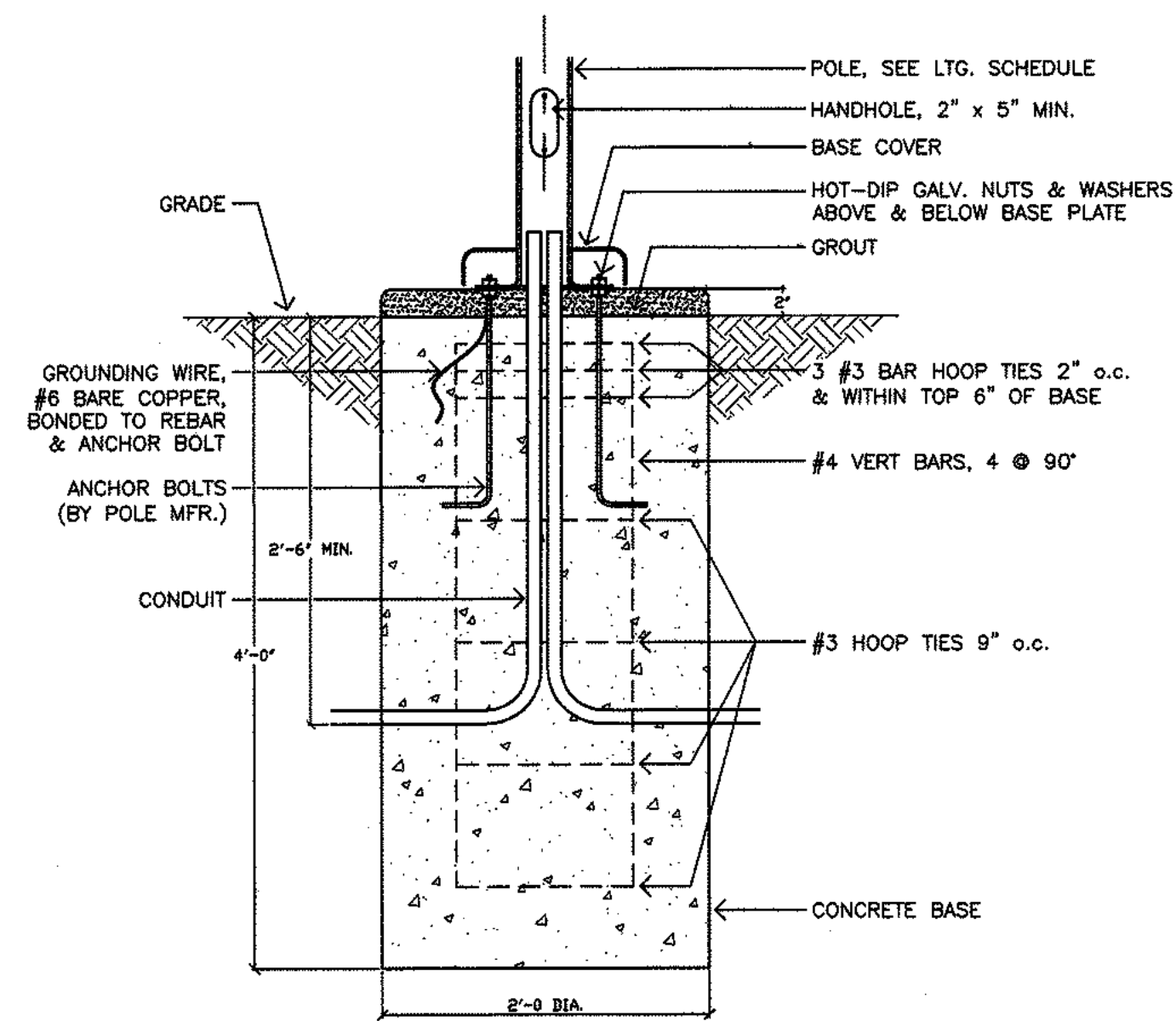
SUPPORT FOR MOVABLE BATTEN
3" = 1'-0" 7



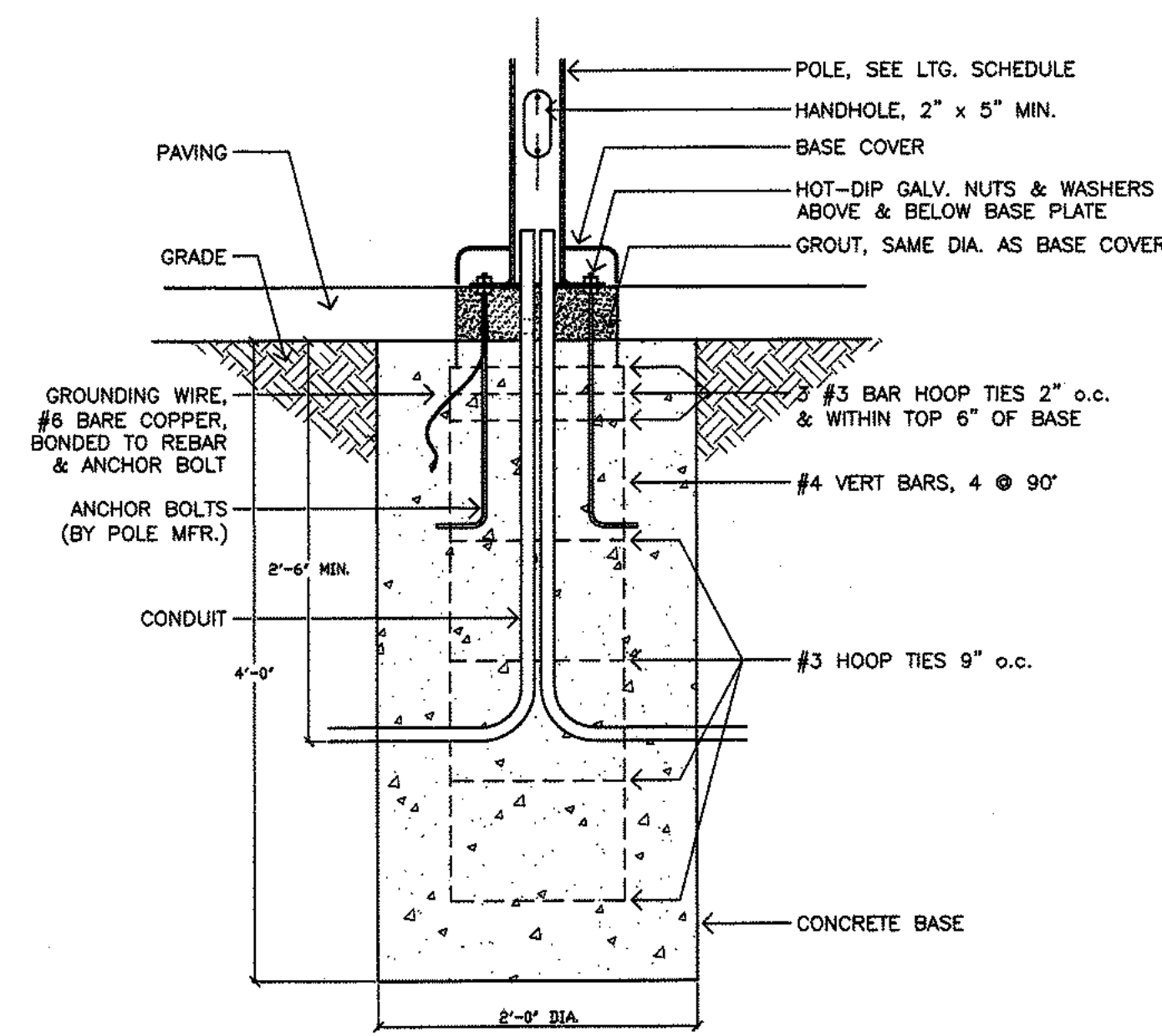
SINGLE LINE DIAG. FOR COMM. HALL DIMMING
n.t.s. 1



LIGHT POLE BASE @ LIGHT TYPE A30B
1" = 1'-0" 2



TYP. POLE LIGHT BASE @ GRADE
1" = 1'-0" 3



TYP. POLE LIGHT BASE @ PAVING
1" = 1'-0" 4

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415 546 0400 T
415 882 7098 F
www.smwm.com

architect
interiors
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City of
Cupertino
10300 Torre Avenue
Cupertino, CA 95014
408 777 3354 T
408 777 3333 F

Sandis Humber Jones
590 Menlo Drive, Suite 1
Redlin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

Forell/Elsesser
Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
415 837 0700 T
415 837 0800 F

Flack + Kurtz
343 Sansome Street
Suite 450
San Francisco, CA 94104
415 398 3853 T
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Architectural
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270 Brannan Street
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415 495 4085 T
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Contract Documents

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LIGHTING
DETAILS

scale AS NOTED date 2003.04.18
drawn by project number 20114.00
sheet number

AL1.01

SECURITY NOTES

- ALL CAMERA LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION.
- ALL CAMERA RECORDING, CONTROLS TO BE RACK MOUNTED AND LOCATED IN MPOE/COMPUTER ROOM.
- ALL WIRE SHALL BE IN CONDUIT IN INACCESSIBLE AND/OR OPEN AREAS.
- ALL POWER SUPPLIES, CONTROL PANELS, SYSTEM ADMINISTRATIVE PRINTERS AND MISCELLANEOUS EQUIPMENT SHALL BE LOCATED IN TELECOM ROOM.
- CAMERA HOUSINGS SHALL BE APPROVED BY OWNER/ARCHITECT PRIOR TO INSTALLATION.
- SECURITY CONTRACTOR SHALL VERIFY FIXED LENS REQUIREMENTS OF ALL CAMERA VIEWS WITH OWNER/ARCHITECT.
- ALL HOLD-UP/PANIC BUTTON LOCATIONS SHALL BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- ALL HOLD-UP/PANIC BUTTON SHALL PROVIDE IDENTIFICATION OF ALARM DEVICES LOCATION.
- ALL DOOR CONTACTS SHALL PROVIDE IDENTIFICATION OF ALARM BY DOOR ALL DOOR ALARMS SHALL BE DISPLAYED ON ANNUNCIATORS.
- ALL RELATED CCTV/SECURITY EQUIPMENT SHALL BE LOCATED IN 19" STANDARD CABINET RACK LOCATED IN THE MPOE/COMPUTER ROOM.
- ALL SECURITY, ACCESS CONTROL, INTRUSION AND CCTV CABLING SHALL BE SUPERVISED. TROUBLES, OPEN, SHORTS, GROUND FAULTS, ETC. SHALL CAUSE THE SYSTEM TO IMMEDIATELY NOTIFY THE OFF-SITE UL LISTED MONITORING STATION; AND SHALL BE DISPLAYED ON LOCAL ANNUNCIATORS.
- NO SECURITY CABLING SHALL BE EXPOSED BELOW 7' AFF. CABLING SHALL BE IN CONDUIT, OR CONCEALED WITHIN WIRE MANAGER. THIS INCLUDES ALL CCTV, ACCESS CONTROL AND INTRUSION DETECTION CABLING.
- STRAIN RELIEF SHALL BE USED ON ALL CABLING AS NECESSARY. THIS IS TO INCLUDE A SERVICE-LOOP WITHIN ALL PULL BOXES AND TERMINATION PANELS.
- CCTV, ACCESS CONTROL, INTRUSION SHALL BE INTEGRATED TOGETHER. ACCESS CONTROL SYSTEM WILL MONITOR OTHER SYSTEMS PROVIDING AN AUDIT TRAIL. INTRUSION PANEL WILL BE EQUIPPED WITH A DIGITAL DIALER AND REPORT ALL ALARMS, TROUBLES FAULTS, ETC. FROM ALL SYSTEMS AND FIELD DEVICES TO THE MONITORING STATION.
- ALL EXPOSED AND/OR VISIBLE SECURITY DEVICES SHALL BE WHITE, INCLUDING ALL MOUNTING HARDWARE AND ATTACHMENTS. WHEN WHITE DEVICES OR MOUNTING HARDWARE ARE NOT AVAILABLE FROM THE MANUFACTURER, AVAILABLE COLOR CHOICES SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO INSTALLATION FOR APPROVAL.

PA NOTES

- ALL SPEAKER LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION.
- ALL SPEAKER CONTROLS LOCATED IN TELECOM ROOM.
- ALL WIRE SHALL BE IN CONDUIT IN INACCESSIBLE AND/OR OPEN AREAS.
- ALL POWER AMPS, CONTROL PANELS, BGM MUSIC SOURCE AND MISCELLANEOUS EQUIPMENT SHALL BE RACK MOUNTED IN TELECOM ROOM.
- SPEAKER HOUSINGS SHALL BE APPROVED BY OWNER/ARCHITECT PRIOR TO INSTALLATION.
- PA CONTRACTOR SHALL VERIFY SPEAKER QUANTITY, LOCATION AND POWER AMP REQUIREMENTS OF ALL SPEAKERS PRIOR TO INSTALLATION.
- ALL SPEAKER LOCATIONS SHALL BE VERIFIED AND COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
- SPEAKERS SHALL PROVIDE ZONE COVERAGE TO ALL LOCATIONS AS INDICATED.
- NO SPEAKER CABLING SHALL BE EXPOSED BELOW 7' AFF IT SHALL BE IN CONDUIT OR CONCEALED WITHIN A WIRE MANAGER.
- STRAIN RELIEF SHALL BE USED ON ALL CABLING. THIS IS TO INCLUDE A SERVICE-LOOP WITHIN ALL PULL BOXES AND TERMINATION PANELS.
- ALL EXPOSED AND/OR VISIBLE SPEAKER DEVICES SHALL BE WHITE, INCLUDING ALL MOUNTING HARDWARE AND ATTACHMENTS. WHEN WHITE DEVICES OR MOUNTING HARDWARE IS NOT AVAILABLE FROM THE MANUFACTURER, AVAILABLE COLOR CHOICES SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO INSTALLATION FOR WRITTEN APPROVAL.

SYMBOLS LEGEND

RACEWAY LEGEND	
	TELECOMMUNICATIONS CONDUIT
	CONDUITS BELOW GRADE OR EMBEDDED IN SLAB
	CABLES ON J-HOOKS
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT STUBBED OUT WITH BUSHING
	TELECOMMUNICATIONS CABLE TRAY
	TELECOMMUNICATIONS LADDER RACK
	VERTICAL WALL MOUNTED CABLE LADDER
	PULL-BOX
	MAN-HOLE
EQUIPMENT LEGEND	
	19" RELAY RACK WITH 21" DEEP EQUIPMENT & VERTICAL CABLE MANAGEMENT
	19" RELAY SWING RACK WITH 21" DEEP EQUIPMENT
	19" WALL MOUNTED RELAY SWING RACK
	FIBER OPTIC DISTRIBUTION FRAME WITH SIDE PANELS & VERTICAL CABLE MANAGEMENT
	XLBET FRAME
	TERMINATION BLOCK, WALL MOUNTED FRAME
RISER LEGEND	
	SPLICE CASES
	COPPER TERMINATION FIELD
	PROTECTED COPPER TERMINATION FIELD
	OPTICAL FIBER PATCH PANEL
GROUNDING LEGEND	
	TELECOMMUNICATIONS GROUNDING BUSBAR
	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

WIRING DEVICE LEGEND

	TELECOMMUNICATIONS OUTLET-TYPE FEED FROM CONCRETE SLAB BELOW
	PUBLIC TELEPHONE
	COMBINATION TELECOM / DATA
	FURNITURE WHIP
	INTERCOM CAT6 CABLE TO MPOE
	COMBINATION DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A (POKE)
	COMBINATION DOUBLE DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A (POKE)
	CEILING MOUNT LOUDSPEAKER, 70V CONSTANT VOLTAGE, (TOA F-121)
	WALL MOUNT LOUDSPEAKER, 70V CONSTANT VOLTAGE, (TOA H-1)
RECESSED FLUSH	
	COMBINATION DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
	COMBINATION DOUBLE DUPLEX RECEPTACLE/TELECOM OUTLET: 125V, 15A
	CEILING OUTLET (1) CAT5E CABLE (20' SLACK ROLLED UP) WITH JACK AND LEFT ABOVE CEILING TILE TO SUPPORT WIRELESS DATA SYSTEM
	ACTIVATED PRESET FITTING SEE ELECTRICAL DRAWINGS
SECURITY DEVICE LEGEND	
	DOOR CONTACT
	MOTION DETECTOR
	GLASS BREAK
	ACCESS CONTROL CARD READER
	HOLD UP/PANIC ALARM
	ANNUNCIATOR
	KEYPAD
	LOCAL DOOR ALARM
	EXIT ALARM
	KEY SWITCH
	CCTV CAMERA
	SECURITY SIREN

ABBREVIATIONS

~C	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AV	AUDIO/VISUAL
ATR	ALL TREADED ROD
AWG	AMERICAN WIRE GAUGE
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
CT	CABLE TRAY
CTR	CENTER
COAX	COAXIAL CABLE
DIA	DIAMETER
DWG	DRAWING
(E)	EXISTING
EC	EMPTY CONDUIT
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EMI	ELECTROMAGNETIC INTERFERENCE
EP	EXPLOSION PROOF
FBO	FURNISHED BY OTHERS
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FACP	FIRE ALARM CONTROL PANEL
FC	FINISH CEILING
OND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
ISDN	INTEGRATE SERVICES DIGITAL NETWORK
JB	JUNCTION BOX
LEC	LOCAL EXCHANGE CARRIER
LAN	LOCAL AREA NETWORK
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P/B	PULL BOX
PBX	PRIVATE BRANCH EXCHANGE/TELEPHONE SWITCH
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RM	ROOM
SCC	SECURITY CONTROL CENTER
STP	SHIELD TWISTED PAIR
SM	SINGLE-MODE (OPTICAL FIBER)
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CONDUIT
TEL	TELECOMMUNICATION
TYP	TYPICAL
TBD	TO BE DETERMINED
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF

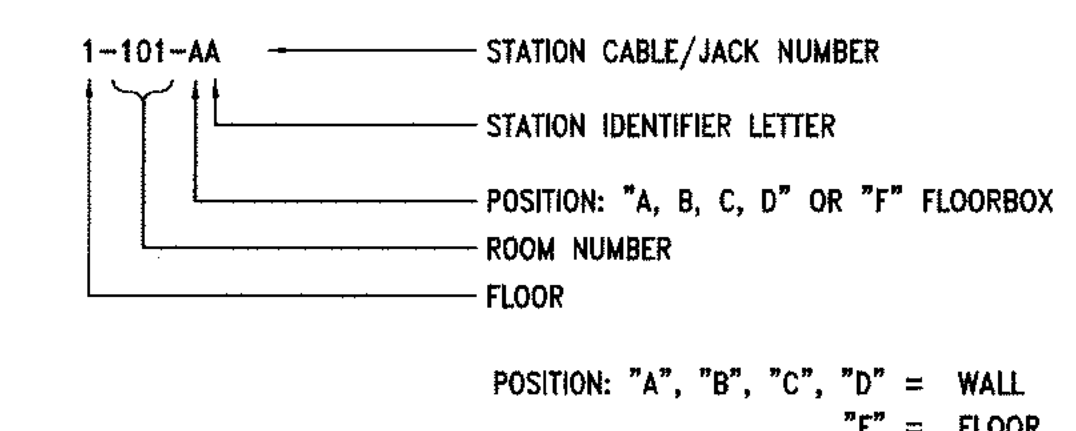
DRAWING LIST

T0.01	TELECOM/SECURITY LEGEND AND ABBREVIATIONS
-	-
T1.10	TELECOM SITE PLAN
SE2.10	LIBRARY FIRST FLOOR SECURITY PLAN
SE2.11	LIBRARY SECOND FLOOR SECURITY PLAN
SE2.20	COMMUNITY HALL SECURITY FLOOR PLAN
-	-
T2.10	LIBRARY FIRST FLOOR TELECOM PLAN
T2.10-S	LIBRARY FIRST FLOOR TELECOM OUTLET SCHEDULE
T2.11	LIBRARY SECOND FLOOR TELECOM PLAN
T2.11-S	LIBRARY SECOND FLOOR TELECOM OUTLET SCHEDULE
T2.20	COMMUNITY HALL TELECOM FLOOR PLAN
T2.30	LIBRARY FIRST FLOOR PA PLAN
T2.40	LIBRARY SECOND FLOOR PA PLAN
T3.10	LIBRARY FIRST FLOOR TELECOM/SECURITY ENLARGED PLAN
T3.11	COMMUNITY HALL TELECOM ENLARGED PLAN
T4.10	TELECOM RISER DIAGRAM
-	-
T5.10	TELECOM/SECURITY DETAILS
T5.11	TELECOM/SECURITY DETAILS
T5.12	TELECOM/SECURITY DETAILS
T5.13	TELECOM/SECURITY DETAILS
T5.14	TELECOM/SECURITY DETAILS
T5.15	TELECOM/SECURITY DETAILS
T5.16	PA BACKGROUND MUSIC FUNCTIONAL BLOCK DIAGRAM

GENERAL NOTES

- SEE TELECOMMUNICATIONS/SECURITY SPECIFICATION SECTIONS 13700, 13720, 13730, 17010, 17020, 17061, 17062, 17070, 17131, 17132, 17160, 17161, 17170, 17175, 17400.
- FOR EXACT LOCATION & MOUNTING HEIGHTS OF OUTLETS SEE THE RESPECTIVE ARCHITECTURAL AND ELECTRICAL DRAWINGS.
- ALL CONDUITS, SLEEVES, CABLE TRAYS, BACKBOARDS, FLOOR MONUMENTS & PULL BOXES SHOWN FOR REFERENCE ONLY. REFER TO APPROPRIATE ELECTRICAL DRAWINGS.
- ALL CABLES NOT IN A CABLE TRAY OR CONDUIT SHALL BE SUPPORTED BY J-HOOKS AT A MAXIMUM DISTANCE OF EVERY 5 FEET.
- LADDER-TYPE CABLE RACKING WITHIN THE TELECOMMUNICATIONS ROOMS & ALL J-HOOKS ARE TO BE FURNISHED & INSTALLED BY THE TELECOMMUNICATIONS CABLING CONTRACTOR.
- THE LOCATIONS OF OUTLETS SHOWN MOUNTED IN MODULAR SYSTEM FURNITURE ARE SCHEMATIC ONLY. PROVIDE SUFFICIENT CABLE TO INSTALL THE OUTLETS ON ANY PANEL AT BASELINE &/OR BELTLINE AS DETERMINED BY THE INTERIOR DESIGN ARCHITECT.

STATION CABLE/JACK NUMBERING



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989 Market Street, 3rd Floor, San Francisco, CA 94103
 415.445.6400 T
 415.882.7580 F
 www.shawm.com

SHAWM architecture interiors planning graphic design

City of Cupertino
 10000 Torre Avenue
 Cupertino, CA 95014
 408.777.3354 T
 408.777.3333 F

Sandis Humber Jones
 550 Metro Drive, Suite 1
 Redden, CA 95705
 916.435.2400 T
 916.435.2410 F

Hargreaves Associates
 2020 17th Street
 San Francisco, CA 94103
 415.865.1811 T
 415.865.1810 F

Forell/Ebesser Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415.837.0700 T
 415.837.0800 F

Flack + Kurtz
 405 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415.398.3833 T
 415.433.5311 F

Architectural Lighting Design
 370 Mission Street
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TELECOM/SECURITY

LEGEND AND ABBREVIATIONS

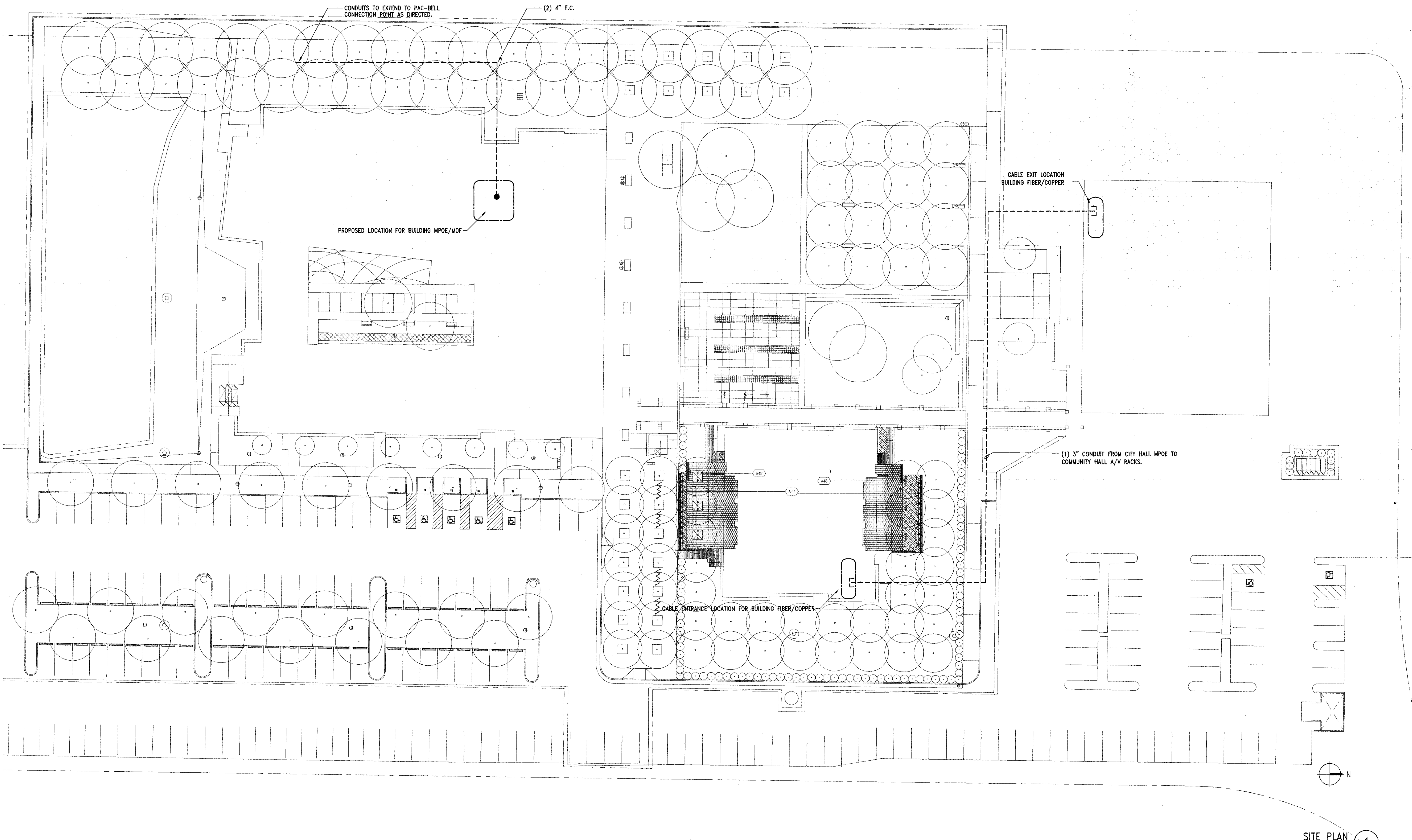
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 drawn by LL project number 01.03770.00
 sheet number

T0.01

SHEET NOTES

- A. TELECOMMUNICATIONS FIBER/COPPER INFRASTRUCTURE FOR THE COMMUNITY HALL IS SUPPLIED FROM CITY HALL MPOE.
- B. COORDINATE WITH CITY HALL TELECOMMUNICATION'S DEPT. FOR CONNECTIVITY TO EXISTING FIBER AND COPPER CABLING.
- C. COORDINATE WITH ELECTRICAL FOR CONDUIT INSTALLATION AND ROUTING.

TORRE AVENUE



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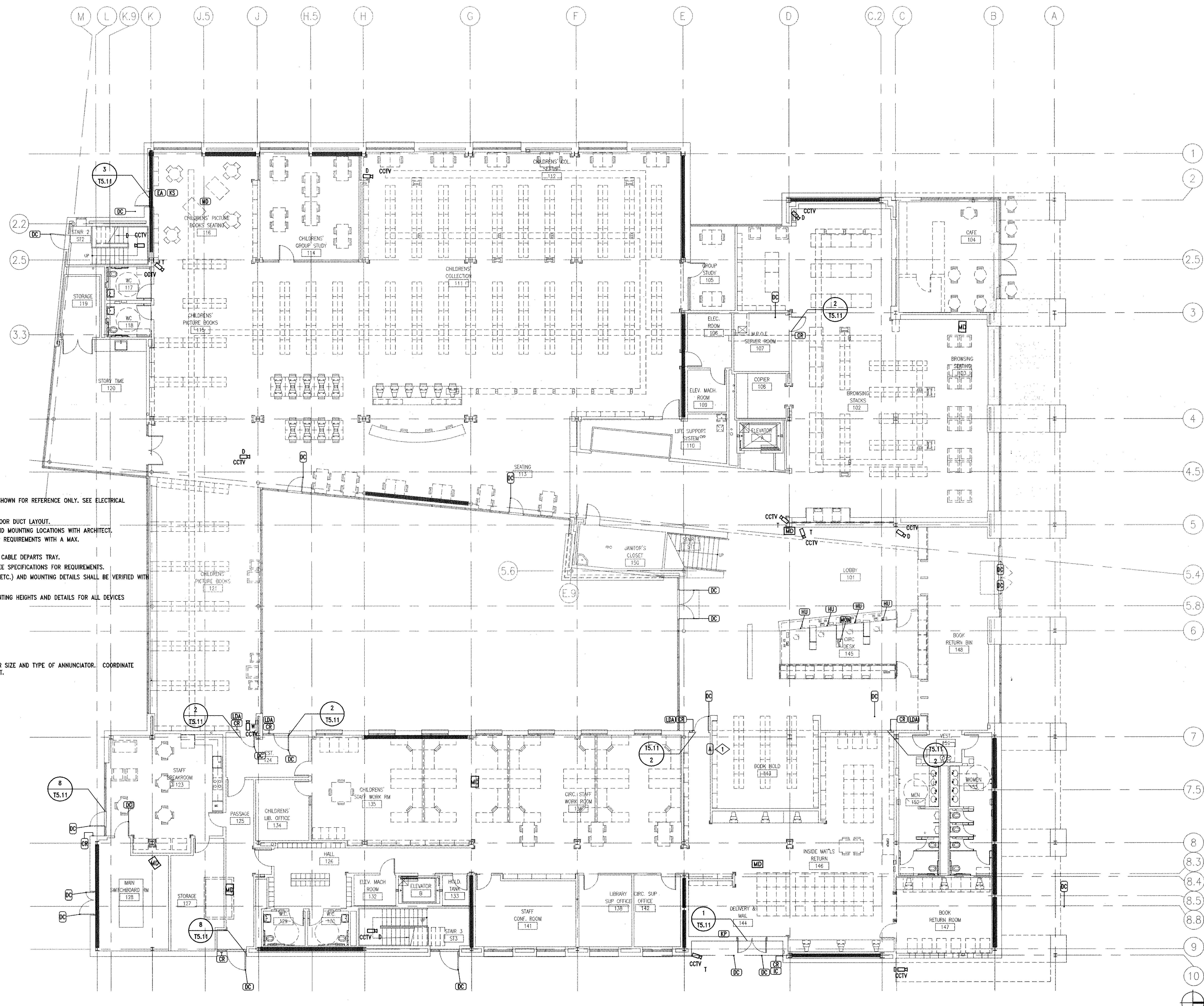
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Issue	BID SET
Sheet title	TELECOM

SITE PLAN

SITE PLAN
1
1"=20'-0"

Scale: 1"=20'-0"
Date: 2003.04.18
Drawn by: LL
Project number: 01.03770.00
Sheet number:

T1.10



SHEET NOTES

- A. FLOOR BOXES AND POKE-THRU ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS/SPECS FOR REQUIREMENTS.
- B. REFER TO SHEET E2.10A FOR UNDERFLOOR DUCT LAYOUT.
- C. VERIFY ALL SECURITY DEVICE TYPES AND MOUNTING LOCATIONS WITH ARCHITECT.
- D. CABLE TRAY SHALL MEET ALL FIRESTOP REQUIREMENTS WITH A MAX. DISTANCE OF 9" BETWEEN RUNGS.
- E. "WATERFALLS" SHALL BE USED WHERE CABLE DEPARTS TRAY.
- F. GLASS BREAK SENSORS NOT SHOWN SEE SPECIFICATIONS FOR REQUIREMENTS.
- G. CAMERA TYPES (DOME, TRACK, WEDGE ETC.) AND MOUNTING DETAILS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.
- H. SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS AND DETAILS FOR ALL DEVICES PRIOR TO INSTALLATION.

NUMBERED NOTES

- 1 SEE SECURITY SPECIFICATIONS FOR SIZE AND TYPE OF ANNUNCIATOR. COORDINATE RECESS MOUNTING WITH ARCHITECT.

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FIRST FLOOR PLAN
1/8"=1'-0" 1

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415 837 0700 T
415 837 0800 F

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415 433 5311 F

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11-29-04 Updated
Contract Documents

STAMP

DATE

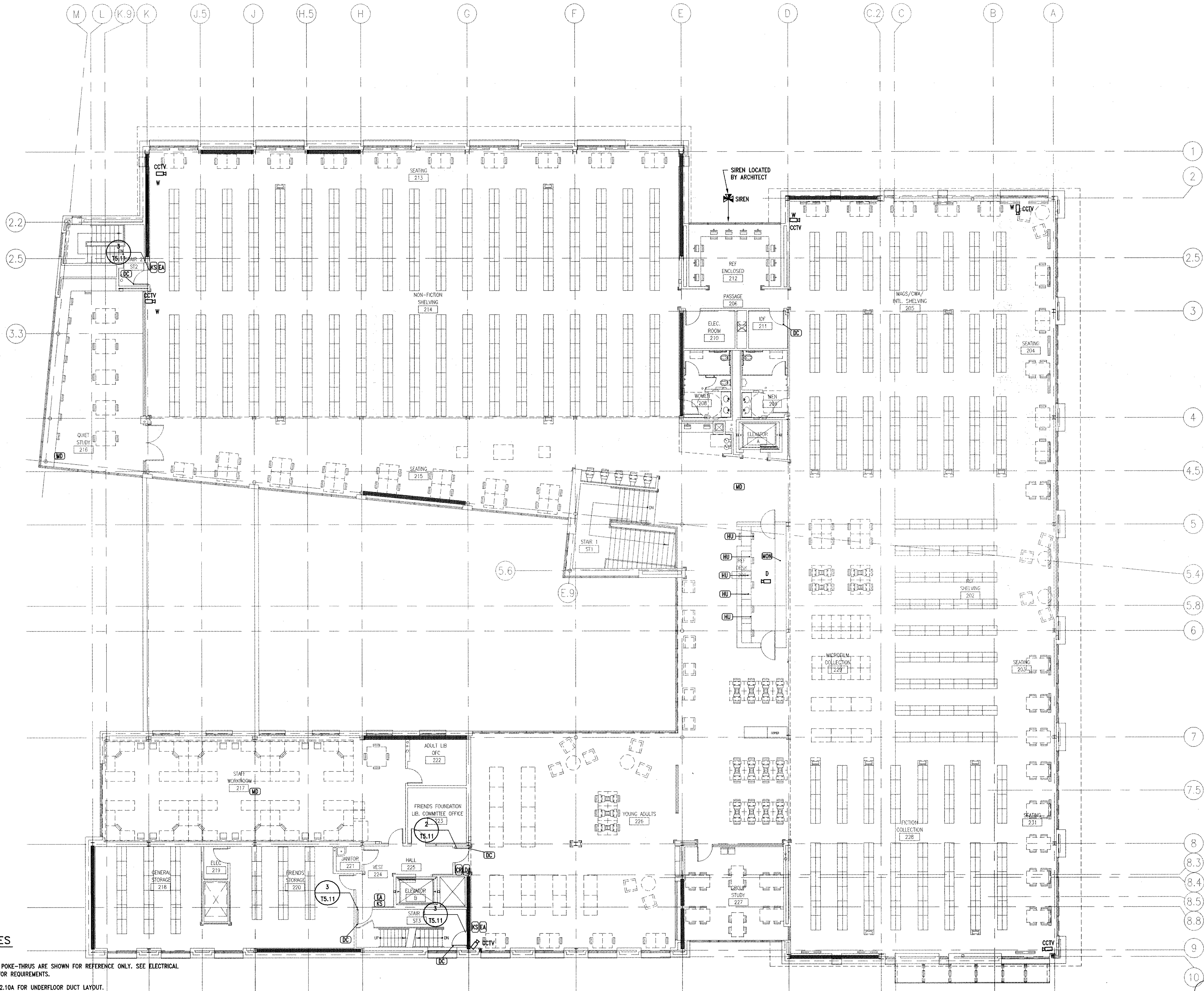
BID SET

SHEET NO.

LIBRARY
FIRST FLOOR
SECURITY PLAN

SCALE: 1/8" = 1'-0" DATE: 2003.04.18
DRAWN BY: LL PROJECT NUMBER: 01.037700
SHEET NUMBER: SE2.10

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SHEET NOTES

- A. FLOOR BOXES AND POKE-THRU ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS/SPECS FOR REQUIREMENTS.
- B. REFER TO SHEET E2.10A FOR UNDERFLOOR DUCT LAYOUT.
- C. VERIFY ALL SECURITY DEVICE TYPES AND MOUNTING LOCATIONS WITH ARCHITECT.
- D. CABLE TRAY SHALL MEET ALL FIRESTOP REQUIREMENTS WITH A MAX. DISTANCE OF 9" BETWEEN RUNGS.
- E. "WATERFALLS" SHALL BE USED WHERE CABLE DEPARTS TRAY.
- F. GLASS BREAK SENSORS NOT SHOWN SEE SPECIFICATIONS FOR REQUIREMENTS.
- G. CAMERA TYPES (DOME, TRACK, WEDGE ETC.) AND MOUNTING DETAILS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.
- H. SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS AND DETAILS FOR ALL DEVICES PRIOR TO INSTALLATION.

SECOND FLOOR PLAN
1/8" = 1'-0" 1

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408 777 3333 F

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590 Menlo Drive, Suite 1
Redwood City, CA 94061
916 435 2400 T
916 435 2410 F

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Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
415 865 1810 F

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Engineers, Inc.
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San Francisco, CA 94111
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San Francisco, CA 94105-2673
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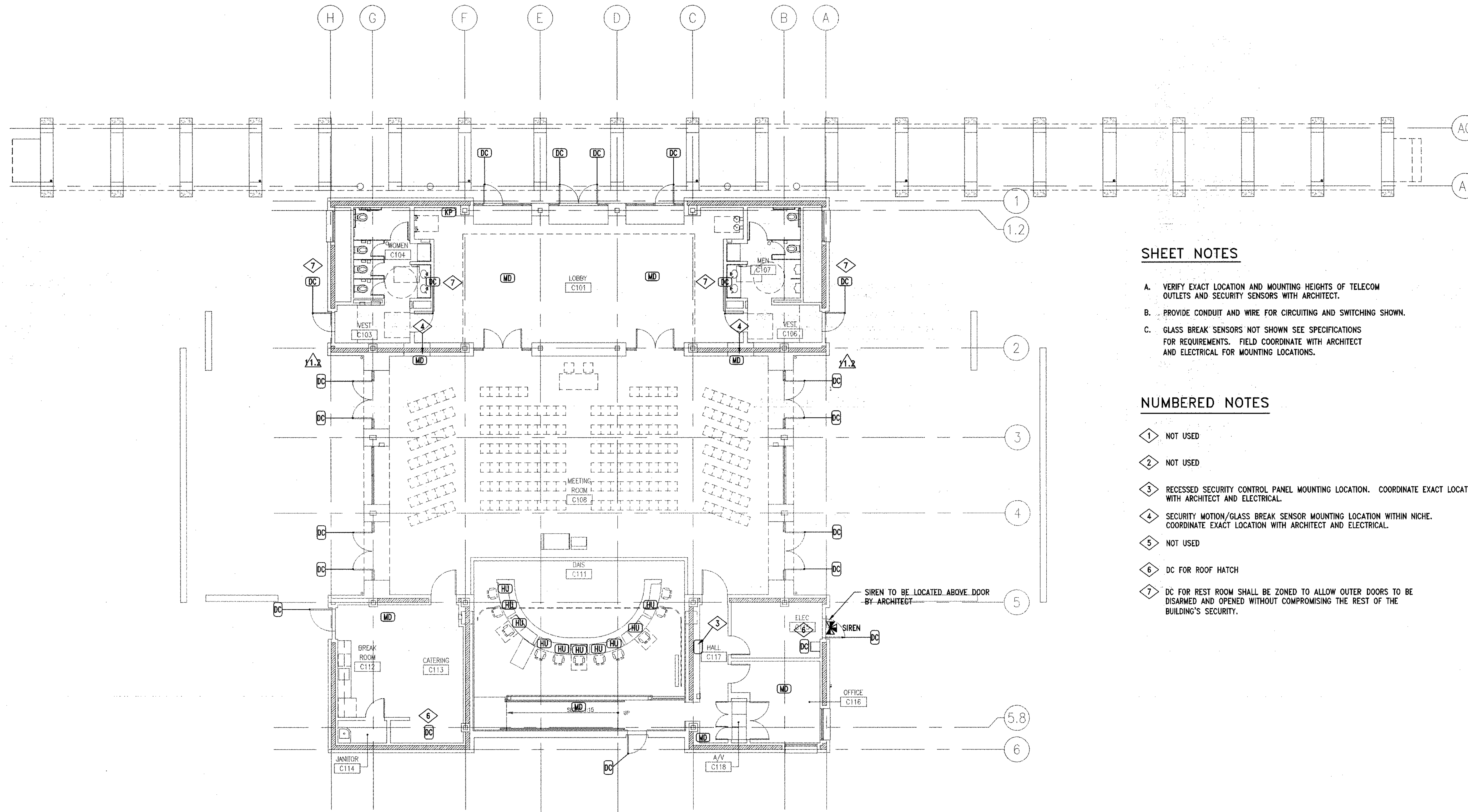
LIBRARY
SECOND FLOOR
SECURITY PLAN

SCALE 1/8" = 1'-0" DATE 2003.04.18
DRAWN BY LL PROJECT NUMBER 01.03770.00
SHEET NUMBER

SE2.11

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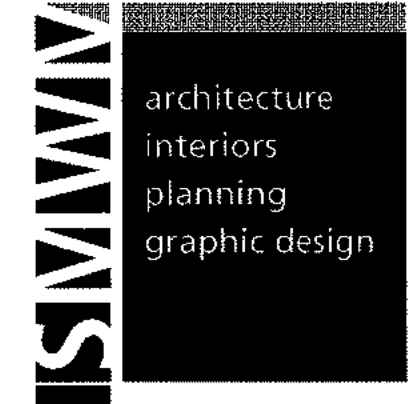
SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF TELECOM OUTLETS AND SECURITY SENSORS WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING AND SWITCHING SHOWN.
- C. GLASS BREAK SENSORS NOT SHOWN SEE SPECIFICATIONS FOR REQUIREMENTS. FIELD COORDINATE WITH ARCHITECT AND ELECTRICAL FOR MOUNTING LOCATIONS.

NUMBERED NOTES

- 1 NOT USED
- 2 NOT USED
- 3 RECESSED SECURITY CONTROL PANEL MOUNTING LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND ELECTRICAL.
- 4 SECURITY MOTION/GLASS BREAK SENSOR MOUNTING LOCATION WITHIN NICHE. COORDINATE EXACT LOCATION WITH ARCHITECT AND ELECTRICAL.
- 5 NOT USED
- 6 DC FOR ROOF HATCH
- 7 DC FOR REST ROOM SHALL BE ZONED TO ALLOW OUTER DOORS TO BE DISARMED AND OPENED WITHOUT COMPROMISING THE REST OF THE BUILDING'S SECURITY.

FIRST FLOOR PLAN 1
1/8"=1'-0"



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Cupertino
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Cupertino, CA 95014
owner
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Sandis Humber Jones
590 Nevada Drive, Suite 1
Redlin, CA 95705
client
916 435 2400 T
916 435 2410 F

Hargreaves
Associates
2020 17th Street
San Francisco, CA 94103
landscape
415 865 1811 T
415 865 1810 F

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Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
structural
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415 837 0800 F

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405 Howard Street
Suite 500
San Francisco, CA 94105-2673
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Lighting Design
370 Brannan Street
San Francisco, CA 94107
lighting
415 485 4085 T
415 485 4560 F

revision	date	description
1.1	2004.01.09	CCD 9.2

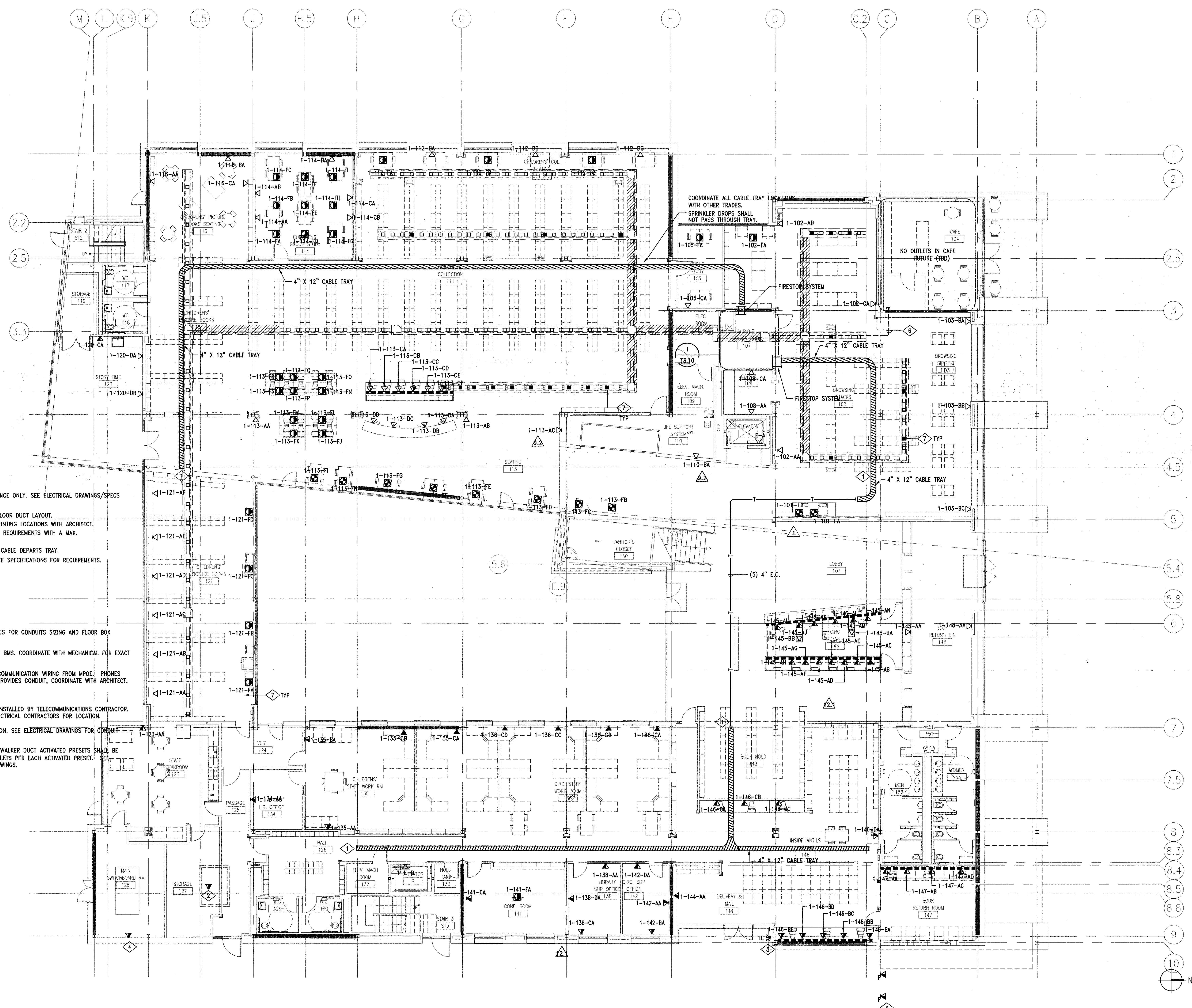
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Contract Documents**

stamp	
issue	BID SET
sheet title	

SECURITY
COMMUNITY
HALL
FLOOR PLAN

scale	1/8" = 1'-0"	date	2003.04.18
drawn by	LL	project number	01.03770.00
sheet number			

SE2.20



SHEET NOTES

- A. FLOOR BOXES ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS/SPECS FOR REQUIREMENTS.
- B. REFER TO SHEET E2.10A FOR UNDER FLOOR DUCT LAYOUT.
- C. VERIFY ALL TELECOM OUTLETS AND MOUNTING LOCATIONS WITH ARCHITECT.
- D. CABLE TRAY SHALL MEET ALL FIRESTOP REQUIREMENTS WITH A MAX. DISTANCE OF 9" BETWEEN RUNGS.
- E. "WATERFALLS" SHALL BE USED WHERE CABLE DEPARTS TRAY.
- F. GLASS BREAK SENSORS NOT SHOWN SEE SPECIFICATIONS FOR REQUIREMENTS.

NUMBERED NOTES

- 1 SEE ELECTRICAL DRAWINGS AND SPECS FOR CONDUITS SIZING AND FLOOR BOX LOCATIONS.
- 2 DATA OUTLET IN STORAGE ROOM FOR BMS. COORDINATE WITH MECHANICAL FOR EXACT LOCATION OF OUTLET.
- 3 FREE STANDING PAY PHONES. TELECOMMUNICATION WIRING FROM MPOE. PHONES PROVIDED BY OWNER. ELECTRICAL PROVIDES CONDUIT, COORDINATE WITH ARCHITECT.
- 4 FACP AND WALL PHONE
- 5 INTERCOM (2) CAT6 CABLES TO BE INSTALLED BY TELECOMMUNICATIONS CONTRACTOR. COORDINATE WITH SECURITY AND ELECTRICAL CONTRACTORS FOR LOCATION.
- 6 3" EC FOR FUTURE CAFE INSTALLATION. SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS.
- 7 TYPICAL OUTLET REQUIREMENTS FOR WALKER DUCT ACTIVATED PRESETS SHALL BE TWO (2) CAT6 CABLES TO DATA OUTLETS PER EACH ACTIVATED PRESET. SEE ELECTRICAL SPECIFICATIONS AND DRAWINGS.

FIRST FLOOR PLAN
1/8"=1'-0"

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408 777 3354 T
408 777 3333 F

Sandis Humber Jones
550 Mario Drive, Suite 1
Rocklin, CA 95765
916 435 2400 T
916 435 2410 F

Hargreaves Associates
2020 17th Street
San Francisco, CA 94103
415 865 1811 T
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160 Pine Street
San Francisco, CA 94111
415 637 0700 T
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405 Howard Street
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▲	2003.05.07	ADDENDUM NO. 1
▲	2003.11.24	CCD No. 10.1
▲	2003.12.19	CCD No. 7.2

11-29-04 Updated Contract Documents

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LIBRARY
FIRST FLOOR
TELECOM PLAN

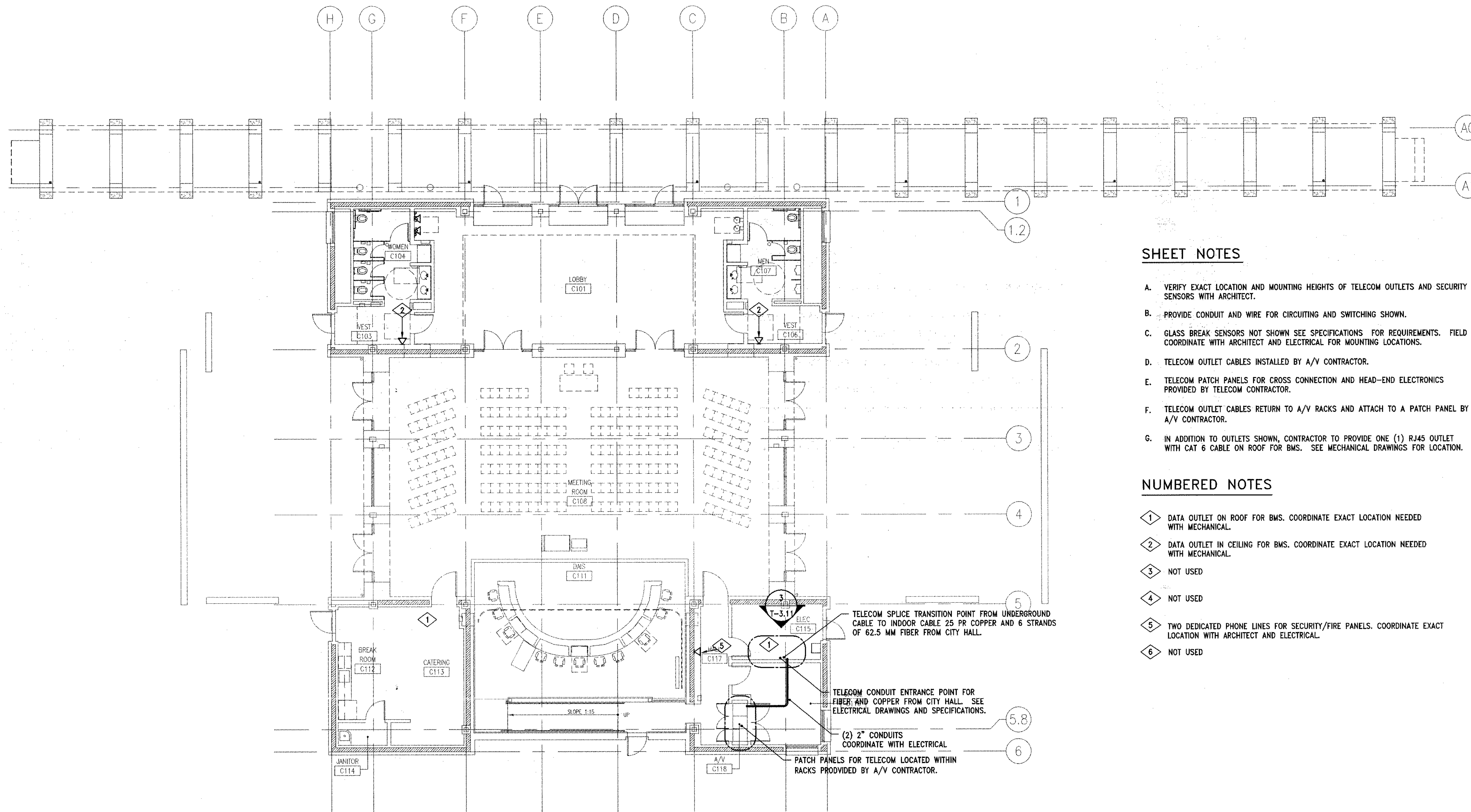
SCALE: 1/8" = 1'-0"
DATE: 2003.04.18
DRAWN BY: LL
PROJECT NUMBER: 01.03770.00
SHEET NUMBER: **T2.10**

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SHEET NUMBER	ROOM NO.	STATION NO.	ROOM NAME	DATA JACK (EIA 596A)	TEL. JACK (EIA 596A)	FILL	DF ROOM	PLATE	PLATE COLOR	ROUGH-IN	REMARKS
T2.10	101	FA	BROWSING STACKS	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	101	FB	BROWSING STACKS	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	102	AA	BROWSING STACKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	102	AB	BROWSING STACKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	102	CA	BROWSING STACKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	102	FA	BROWSING STACKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	103	BA	BROWSING SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	103	BB	BROWSING SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	103	BC	BROWSING SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	105	CA	GROUP STUDY	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	105	FA	GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	108	AA	COPIER	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	108	CA	COPIER	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	110	BA	LIFE SUPPORT SYSTEM	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	FOR AQUARIUM EQUIPMENT
T2.10	112	BA	CHILDREN'S SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	112	BB	CHILDREN'S SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	112	BC	CHILDREN'S SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	112	FA	CHILDREN'S SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	112	FB	CHILDREN'S SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	112	FC	CHILDREN'S SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	AA	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	BA	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	AC	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	CA	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	113	CB	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	113	CC	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	113	CD	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	113	CE	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	113	CF	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	113	DA	SEATING	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	DB	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	DC	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	DD	SEATING	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	113	FE	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FC	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FD	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FE	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FF	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FG	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FH	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FI	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FJ	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FK	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FL	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FM	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FN	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FO	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FP	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FQ	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FR	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	113	FS	SEATING	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	AA	CHILDREN'S GROUP STUDY	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	114	BA	CHILDREN'S GROUP STUDY	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	114	CA	CHILDREN'S GROUP STUDY	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	114	CB	CHILDREN'S GROUP STUDY	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	114	FA	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FB	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FC	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FD	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FE	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FG	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FH	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	114	FI	CHILDREN'S GROUP STUDY	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	116	AA	CHILDREN'S PICTURE BOOKS	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	116	BA	CHILDREN'S PICTURE BOOKS	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	116	CA	CHILDREN'S PICTURE BOOKS	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	120	CA	STORY TIME	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	120	DA	STORY TIME	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	120	DB	STORY TIME	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	AA	CHILDREN'S PICTURE BOOKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	AB	CHILDREN'S PICTURE BOOKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	AC	CHILDREN'S PICTURE BOOKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	AD	CHILDREN'S PICTURE BOOKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	AE	CHILDREN'S PICTURE BOOKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	AF	CHILDREN'S PICTURE BOOKS	1	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	121	FA	CHILDREN'S PICTURE BOOKS	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	121	FB	CHILDREN'S PICTURE BOOKS	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	121	FC	CHILDREN'S PICTURE BOOKS	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	121	FD	CHILDREN'S PICTURE BOOKS	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		FLOOR BOX	
T2.10	123	AA	STAFF BREAKROOM	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	134	AA	CHILDREN'S OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	135	AA	CHILDREN'S STAFF WORKROOM	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	135	BA	CHILDREN'S STAFF WORKROOM	1	1	UTP 6E-5	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	135	CA	CHILDREN'S STAFF WORKROOM	6	6	UTP 6E-6	MPOE	WHITE/PLASTIC		FURNITURE WHIP	PLAN FOR 3 WORK STATIONS EACH SIDE 1 DATA/ 1 VOICE
T2.10	135	CB	CHILDREN'S STAFF WORKROOM	6	6	UTP 6E-6	MPOE	WHITE/PLASTIC		FURNITURE WHIP	PLAN FOR 3 WORK STATIONS EACH SIDE 1 DATA/ 1 VOICE
T2.10	136	CA	CIRCULATION STAFF WORKROOM	6	6	UTP 6E-4	MPOE	WHITE/PLASTIC		FURNITURE WHIP	PLAN FOR 3 WORK STATIONS EACH SIDE 1 DATA/ 1 VOICE
T2.10	136	CB	CIRCULATION STAFF WORKROOM	6	6	UTP 6E-4	MPOE	WHITE/PLASTIC		FURNITURE WHIP	PLAN FOR 3 WORK STATIONS EACH SIDE 1 DATA/ 1 VOICE
T2.10	136	CC	CIRCULATION STAFF WORKROOM	6	6	UTP 6E-4	MPOE	WHITE/PLASTIC		FURNITURE WHIP	PLAN FOR 3 WORK STATIONS EACH SIDE 1 DATA/ 1 VOICE
T2.10	136	CD	CIRCULATION STAFF WORKROOM	6	6	UTP 6E-4	MPOE	WHITE/PLASTIC		FURNITURE WHIP	PLAN FOR 3 WORK STATIONS EACH SIDE 1 DATA/ 1 VOICE
T2.10	138	AA	LIBRARY SUP OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	138	CA	LIBRARY SUP OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	138	DA	LIBRARY SUP OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	141	CA	STAFF CONF ROOM	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	141	FA	STAFF CONF ROOM	2	0	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	142	AA	CIRCULATION SUP OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	142	BA	CIRCULATION SUP OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	142	DA	CIRCULATION SUP OFFICE	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	
T2.10	144	AA	DELIVERY AND MAIL	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		4S BOX w/SINGLE GANG RING BY DIV. 16	

SHEET NUMBER	ROOM NO.	STATION NO.	ROOM NAME	DATA JACK (EIA 596A)	TEL. JACK (EIA 596A)	FILL	DF ROOM	PLATE	PLATE COLOR	ROUGH-IN	REMARKS
T2.10	145	AA	CIRCULATION DESK	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC			
T2.10	145	AB	CIRCULATION DESK	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	145	AC	CIRCULATION DESK	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	145	AD	CIRCULATION DESK	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	145	AE	CIRCULATION DESK	1	1	UTP 6E-4	MPOE	WHITE/PLASTIC		PLUG STRIP	
T2.10	145	AF	CIRCULATION DESK								

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SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF TELECOM OUTLETS AND SECURITY SENSORS WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING AND SWITCHING SHOWN.
- C. GLASS BREAK SENSORS NOT SHOWN SEE SPECIFICATIONS FOR REQUIREMENTS. FIELD COORDINATE WITH ARCHITECT AND ELECTRICAL FOR MOUNTING LOCATIONS.
- D. TELECOM OUTLET CABLES INSTALLED BY A/V CONTRACTOR.
- E. TELECOM PATCH PANELS FOR CROSS CONNECTION AND HEAD-END ELECTRONICS PROVIDED BY TELECOM CONTRACTOR.
- F. TELECOM OUTLET CABLES RETURN TO A/V RACKS AND ATTACH TO A PATCH PANEL BY A/V CONTRACTOR.
- G. IN ADDITION TO OUTLETS SHOWN, CONTRACTOR TO PROVIDE ONE (1) RJ45 OUTLET WITH CAT 6 CABLE ON ROOF FOR BMS. SEE MECHANICAL DRAWINGS FOR LOCATION.

NUMBERED NOTES

- 1 DATA OUTLET ON ROOF FOR BMS. COORDINATE EXACT LOCATION NEEDED WITH MECHANICAL.
- 2 DATA OUTLET IN CEILING FOR BMS. COORDINATE EXACT LOCATION NEEDED WITH MECHANICAL.
- 3 NOT USED
- 4 NOT USED
- 5 TWO DEDICATED PHONE LINES FOR SECURITY/FIRE PANELS. COORDINATE EXACT LOCATION WITH ARCHITECT AND ELECTRICAL.
- 6 NOT USED

FIRST FLOOR PLAN 1
1/8"=1'-0"

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 2002 17th Street
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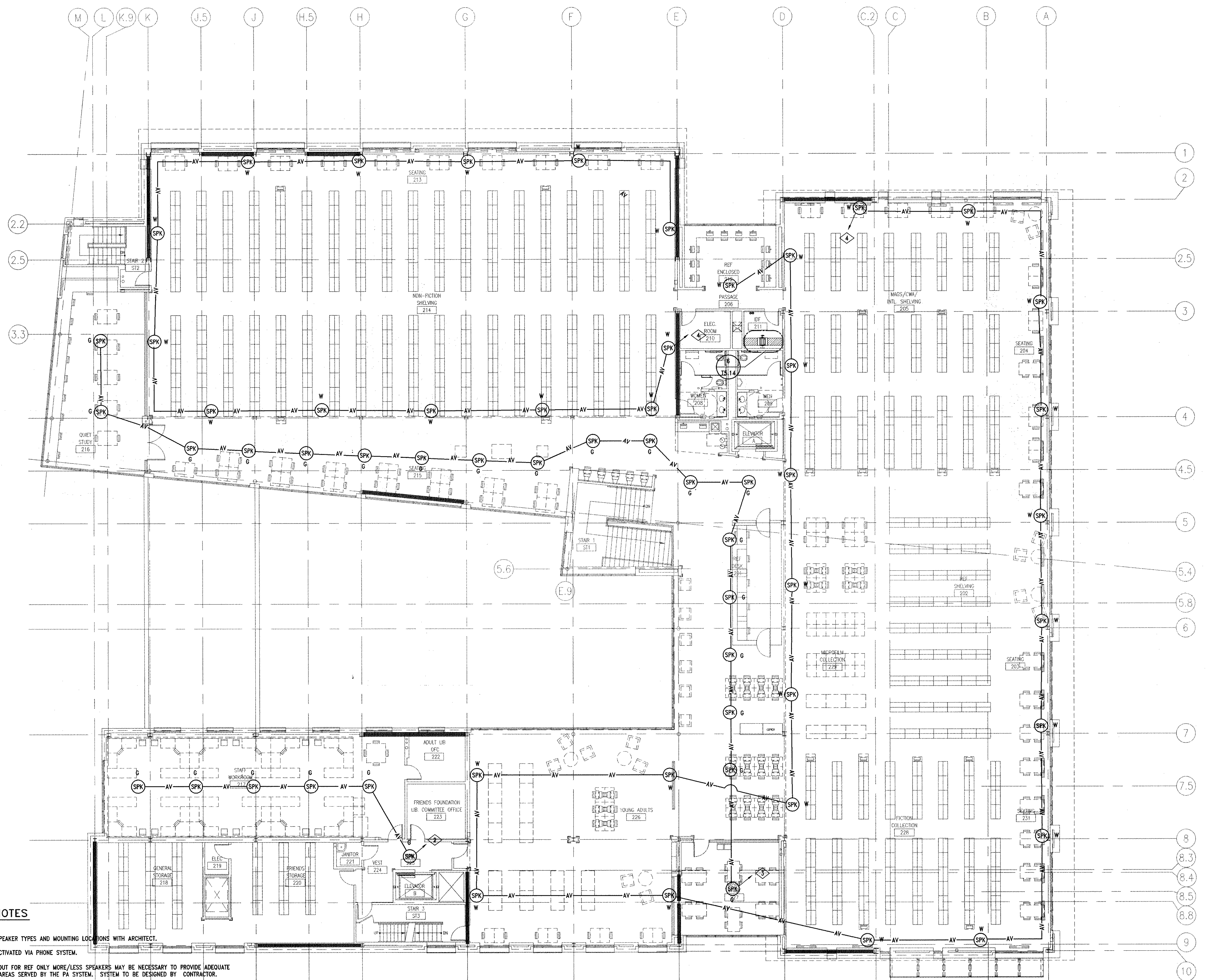
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 TELECOM
 FLOOR PLAN

scale 1/8" = 1'-0" date 2003.04.18
 drawn by LL project number 01.03770.00
 sheet number
T2.20

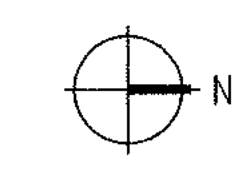


SHEET NOTES

- A. VERIFY ALL SPEAKER TYPES AND MOUNTING LOCATIONS WITH ARCHITECT.
- B. PA SYSTEM ACTIVATED VIA PHONE SYSTEM.
- C. SPEAKER LAYOUT FOR REF ONLY MORE/LESS SPEAKERS MAY BE NECESSARY TO PROVIDE ADEQUATE VOLUME IN ALL AREAS SERVED BY THE PA SYSTEM. SYSTEM TO BE DESIGNED BY CONTRACTOR.
- D. PA SYSTEM SPEAKER ZONED FOR BACK OF HOUSE (BOH), ALL CALL 1ST FLOOR, SECOND FLOOR AND SECOND FLOOR BOH.
- E. FIRST FLOOR PA CABLING SHALL BE PLENUM RATED RAN ABOVE FINISHED CEILING, ON J-HOOKS TO SECOND FLOOR TELECOMMUNICATION ROOM. CABLING SHALL BE IN CONDUIT WHERE NO ACCESSIBLE CEILING IS LOCATED.
- F. ALL CABLES FOR 2ND FLOOR PA SYSTEM SHALL BE IN CONDUIT SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- G. PA CABLING SHOWN IS DIAGRAMMATIC ONLY FOR ZONES AND NOT TO BE USED FOR CONSTRUCTION OR CABLE ROUTING.
- H. #16 TP PLENUM RATED SPEAKER CABLE.
- I. SPEAKER TAPS SHALL MEET POWER REQUIREMENTS FOR AMPS AND ACCEPTABLE SOUND LEVELS OF THE ASSOCIATED AREA.

NUMBERED NOTES

- 1 NOT USED
- 2 HOME RUN BACK TO TELECOM ROOM AN CONNECT TO A-903-MK2 AMP
- 3 HOME RUN BACK TO TELECOM ROOM AN CONNECT TO A-906-MK2 AMP
- 4 HOME RUN BACK TO TELECOM ROOM AN CONNECT TO IP-300-D AMP



SECOND FLOOR PLAN
1/8"=1'-0" 1

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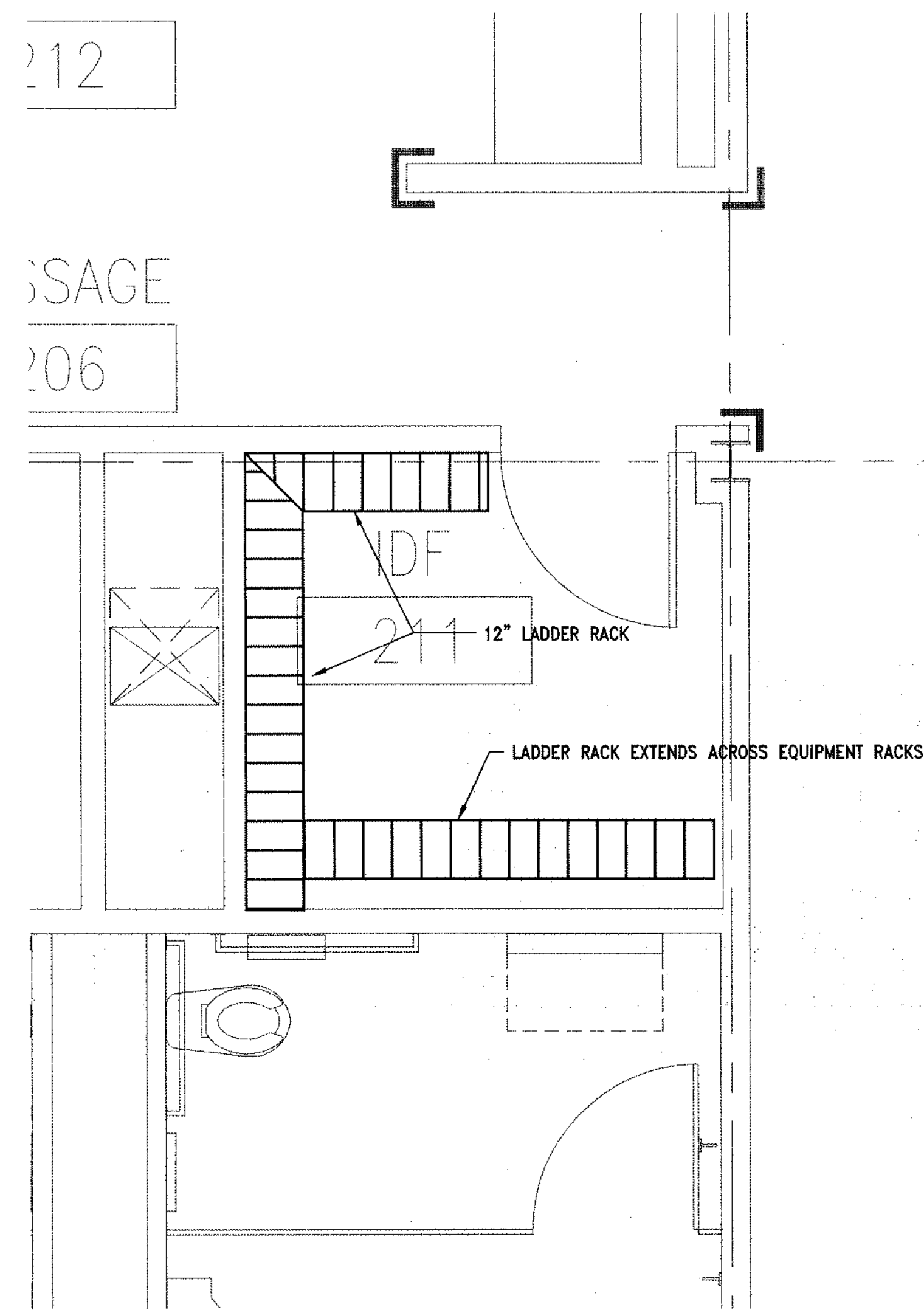
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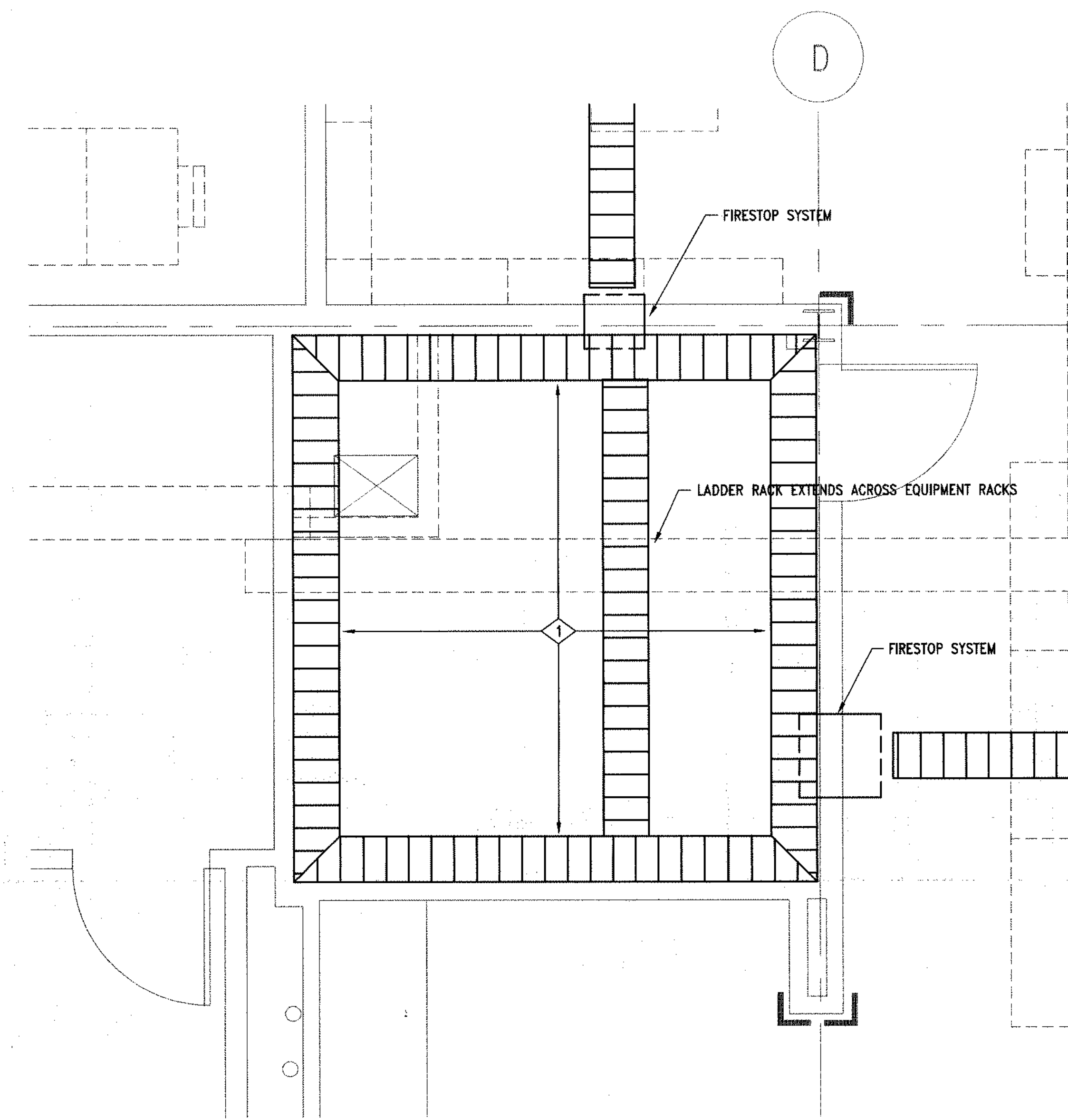
LIBRARY
 SECOND FLOOR
 PA PLAN

scale 1/8" = 1'-0" date 2003.04.18
 drawn by LL project number 01.03770.00
 sheet number

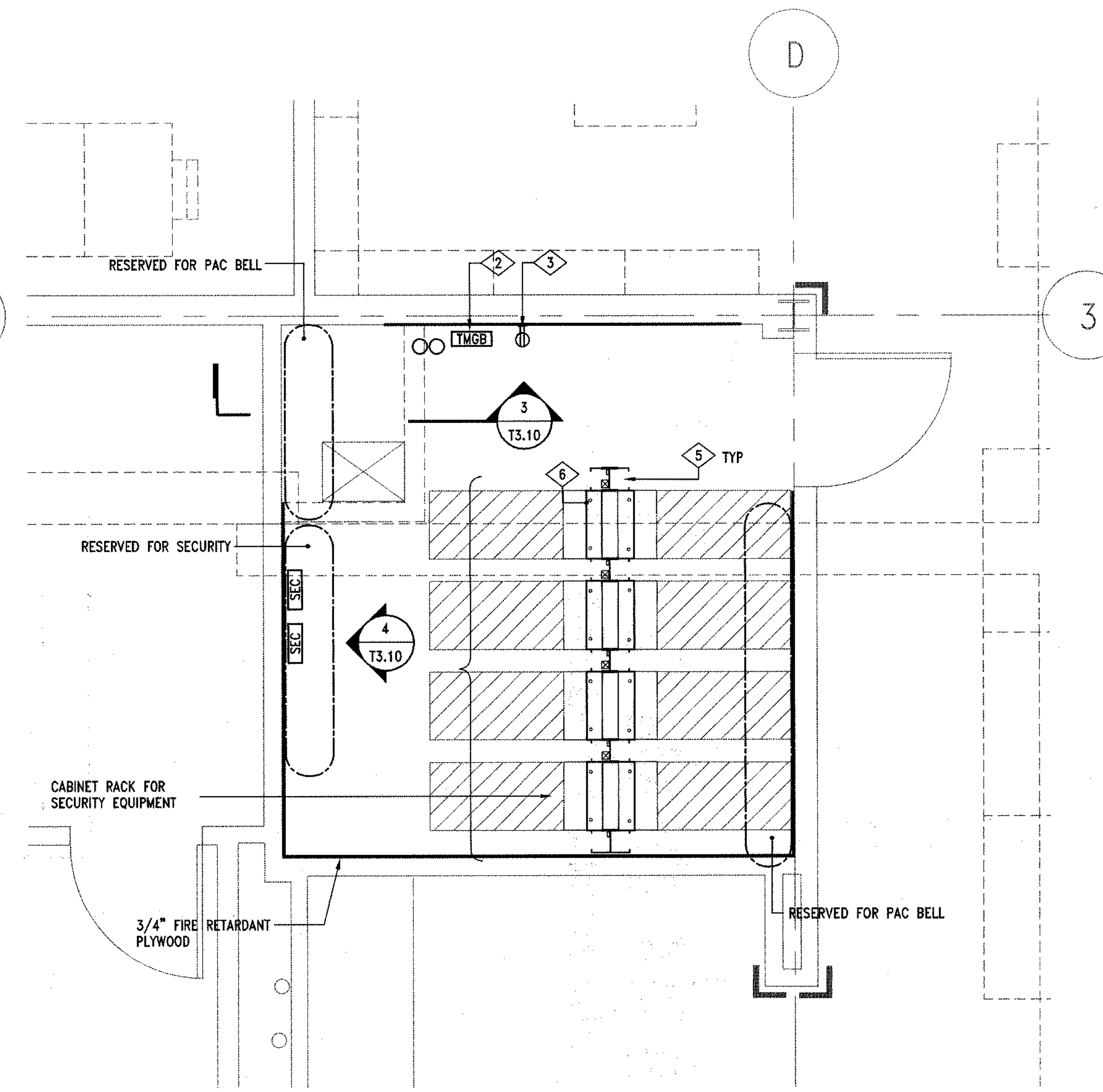
T2.40



5 REFLECTED CEILING PLAN VIEW
IDF SECOND FLOOR RM 211
1/2"=1'-0"



2 REFLECTED CEILING PLAN VIEW
MPOE SERVER ROOM 107
1/2"=1'-0"



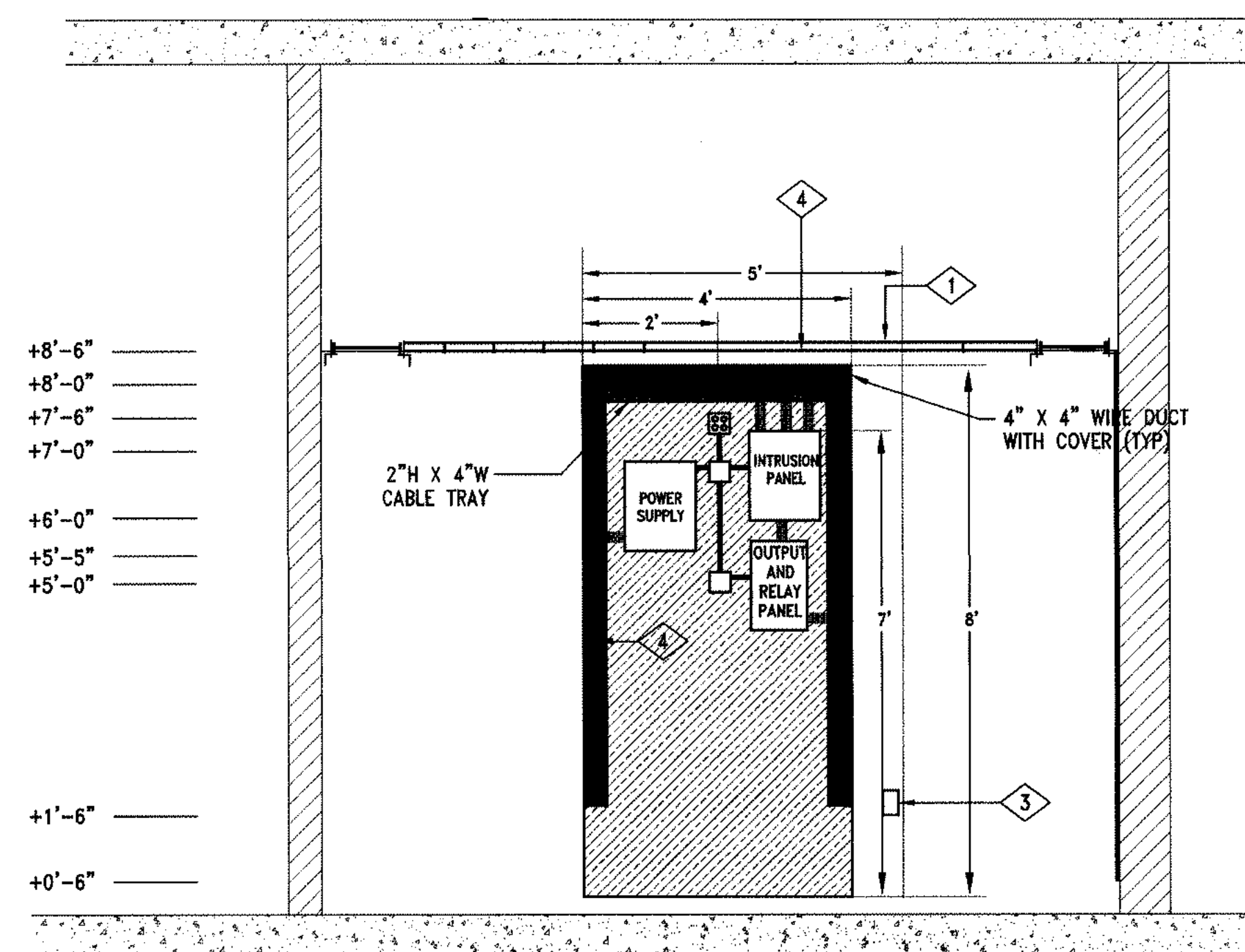
1 ENLARGED PLAN VIEW
MPOE SERVER ROOM 107
1/2"=1'-0"

NUMBERED NOTES

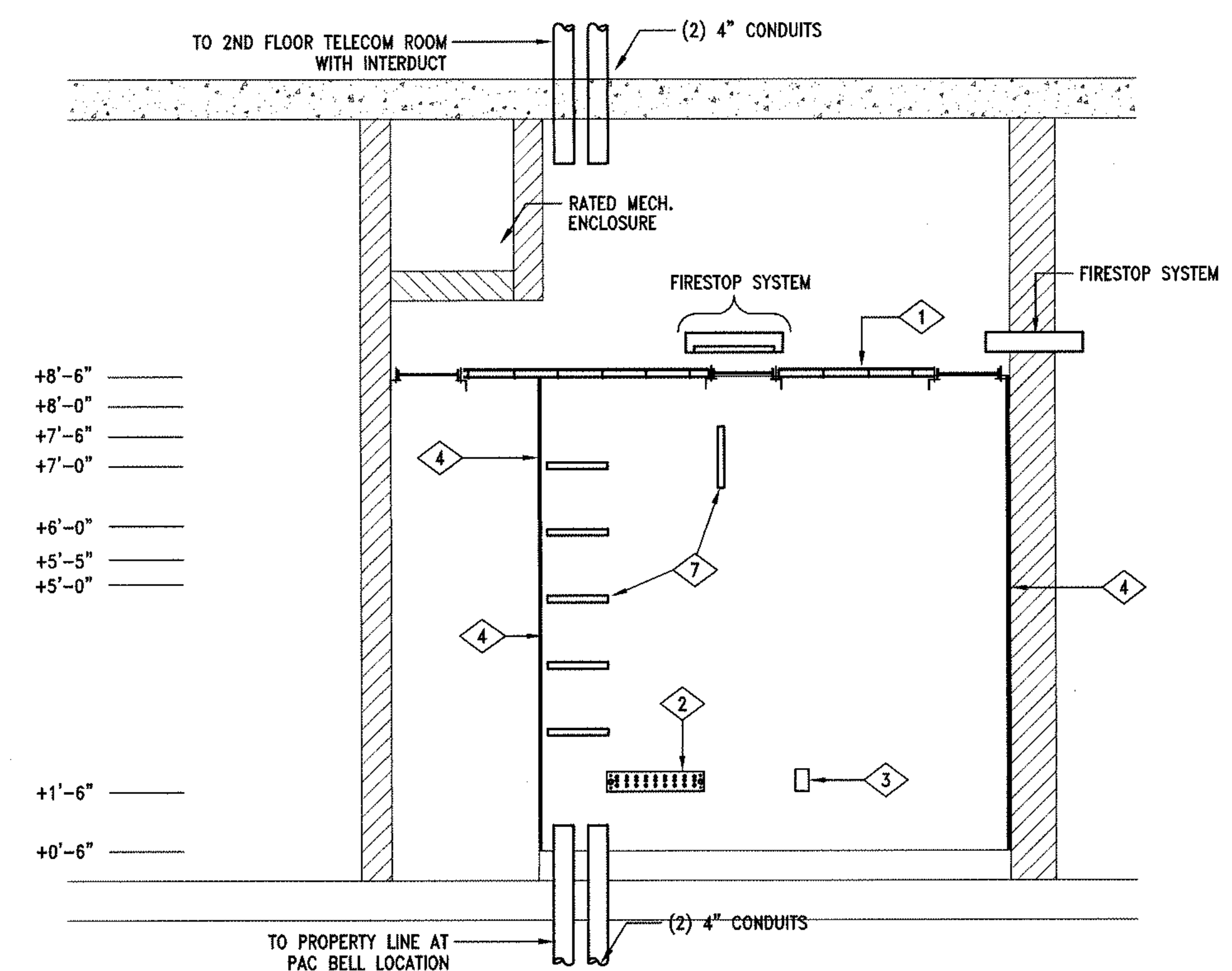
- 1 12" LADDER RACK
- 2 TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
- 3 ELECTRICAL CONVENIENCE OUTLET
- 4 3/4" PLYWOOD
- 5 WIRE MANAGER (TYPICAL)
- 6 EQUIPMENT RACKS
- 7 "D" RINGS USED TO SUPPORT, TRAIN AND PROTECT CABLING.

SHEET NOTES

- A. COORDINATE WITH ELECTRICAL CONTRACTOR ALL POWER REQUIREMENTS. SEE ELECTRICAL DRAWINGS/SPECS.
- B. VERIFY ALL MOUNTING LOCATIONS WITH ARCHITECT.
- C. SEE ELECTRICAL DRAWINGS AND SPECS FOR CONDUITS SIZING AND FLOOR BOX LOCATIONS.
- D. SECURITY AND PA SYSTEMS SHALL BE IN LOCKABLE CABINET RACKS.
- E. VERIFY POWER STRIP MOUNTING AND OUTLET QUANTITY AND CURRENT DRAWS PROVIDING POWER TO ALL EQUIPMENT FOR 1st AND 2nd FLOORS.



4 ELEVATION VIEW
MPOE SERVER ROOM 107
1/2"=1'-0"



3 ELEVATION VIEW
MPOE SERVER ROOM 107
1/2"=1'-0"

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916 435 2410 F

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Associates
2000 17th Street
San Francisco, CA 94103
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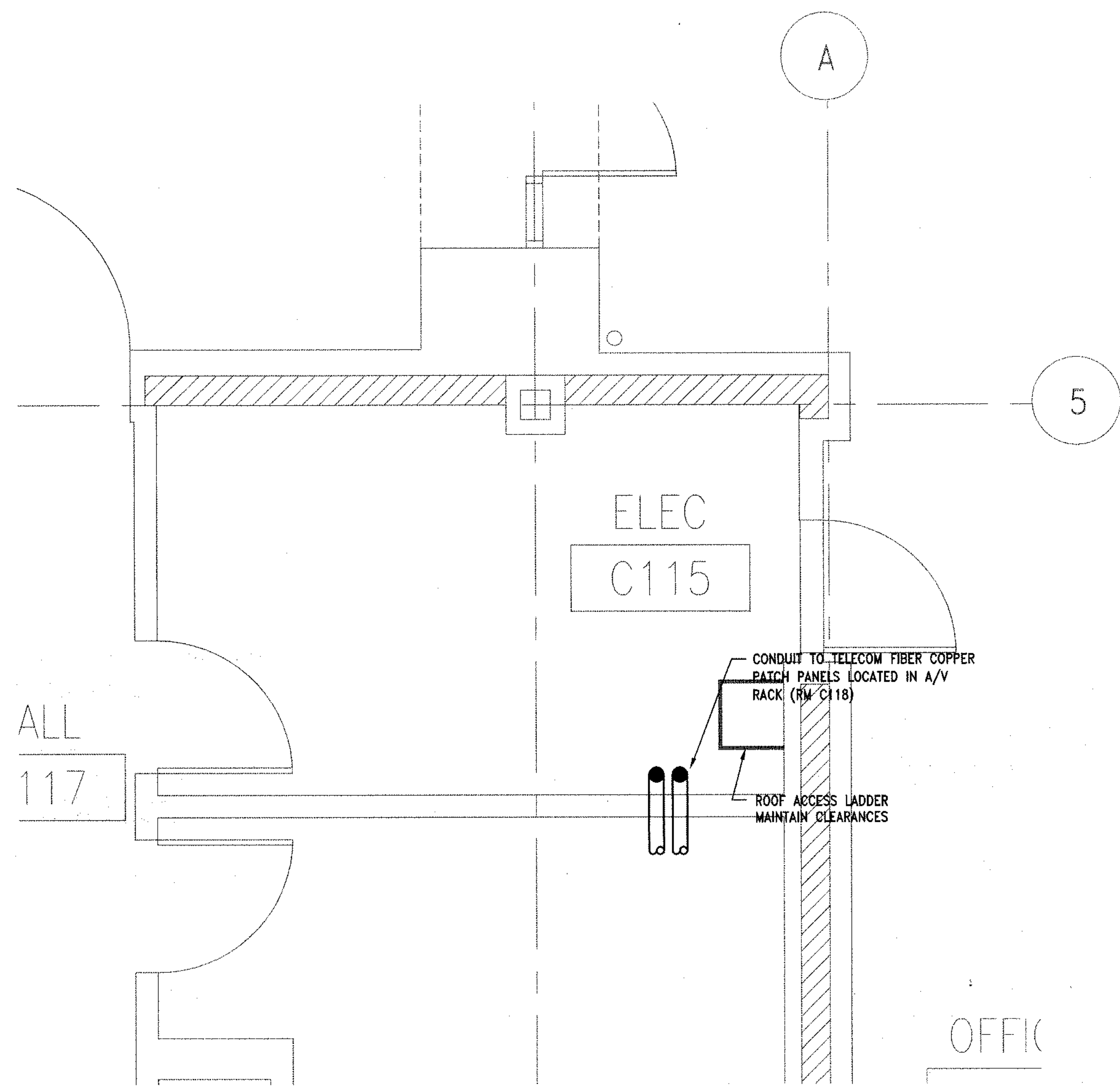
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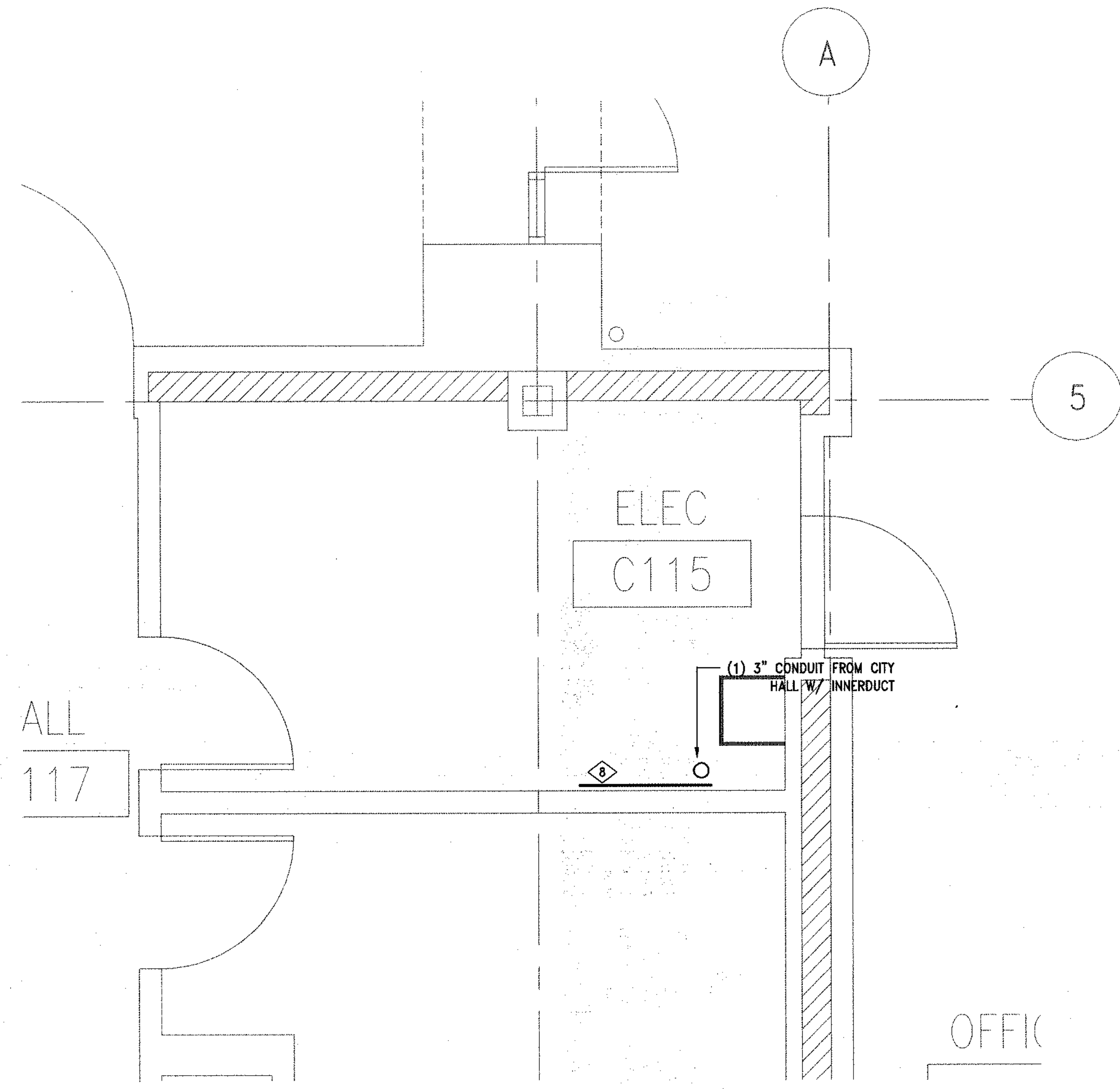
BID SET
LIBRARY FIRST
FLOOR
TELECOM/SECURITY
ENLARGED
PLAN

scale 1/2"=1'-0" date 2003.04.18
drawing LL project number 01.03770.00
sheet number

T3.10



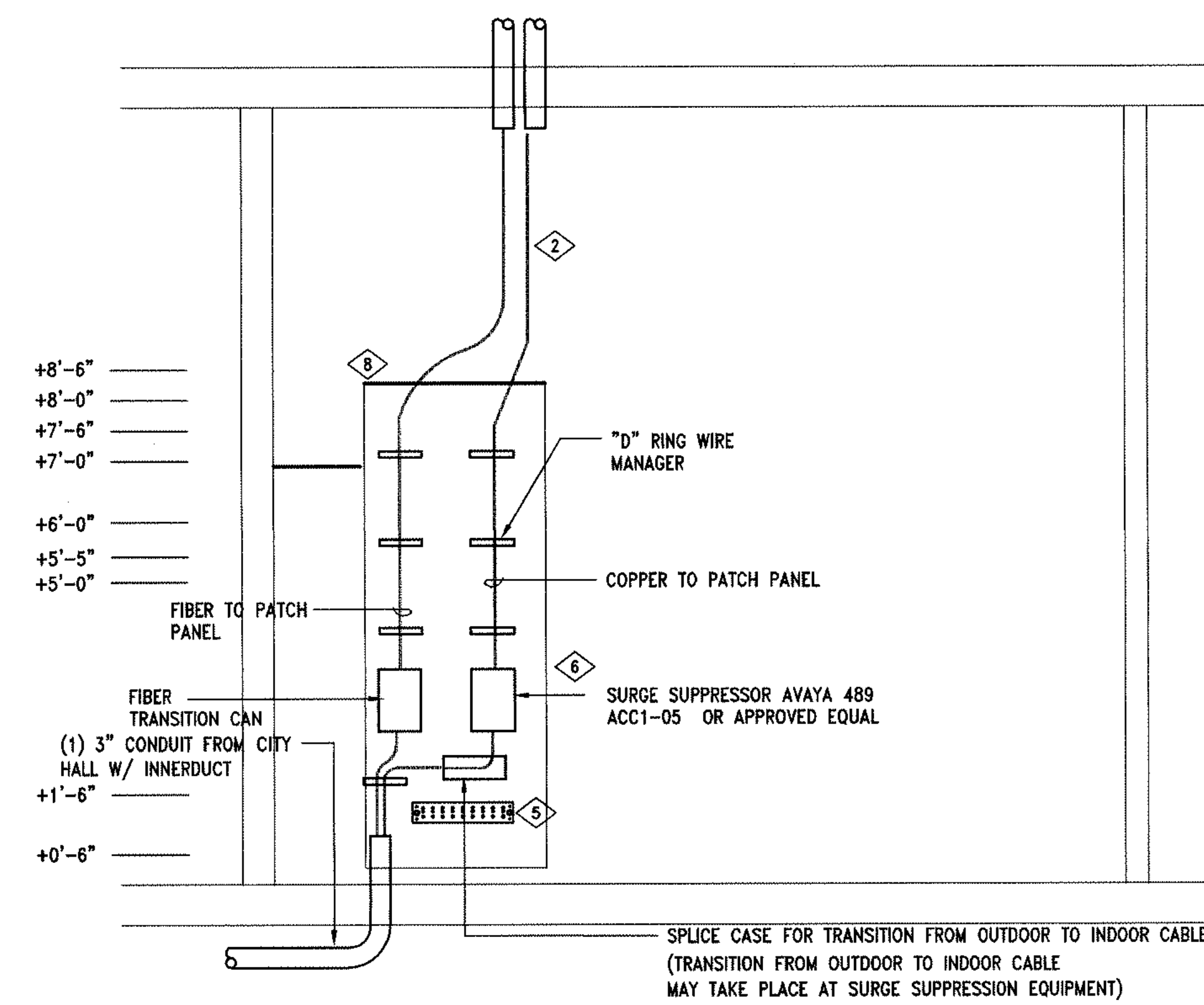
2 REFLECTED CEILING PLAN VIEW
ROOM C115
1/2"=1'-0"



1 ENLARGED PLAN VIEW
ROOM C115
1/2"=1'-0"

NUMBERED NOTES

- 1 (NOT USED)
- 2 TERMINATE HORIZONTAL (STATION) CABLING IN PATCH PANELS WITHIN THE RACKS.
- 3 12" WIDE LADDER-STYLE CABLE RACKING
- 4 4" WIDE WIRE MANAGER.
- 5 TELECOMMUNICATION GROUND BUS BAR (TGB)
- 6 ALL CABLES SHALL BE PROTECTED WHERE CABLE EXITS AND RE-ENTERS A BUILDING.
- 7 WALL PHONE OUTLET
- 8 3/4" FIRE RETARDANT TYPE A/C PLYWOOD BACKBOARD ON WALL FROM 6" A.F.F. TO 8'-6" A.F.F. (PAINTED WHITE)
- 9 NOMINAL 19-INCH RACK, 7FT HIGH.
- 10 (NOT USED)
- 11 20 AMP CIRCUIT, DEDICATED CIRCUIT. (SEE ELECTRICAL DRAWINGS, SHOWN HERE FOR REFERENCE ONLY.)



3 ELEVATION VIEW
ROOM C115
1/2"=1'-0"

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PLAN

scale 1/2"=1'-0" date 2003.04.18
drawn by AGR project number 01.03770.00
sheet number

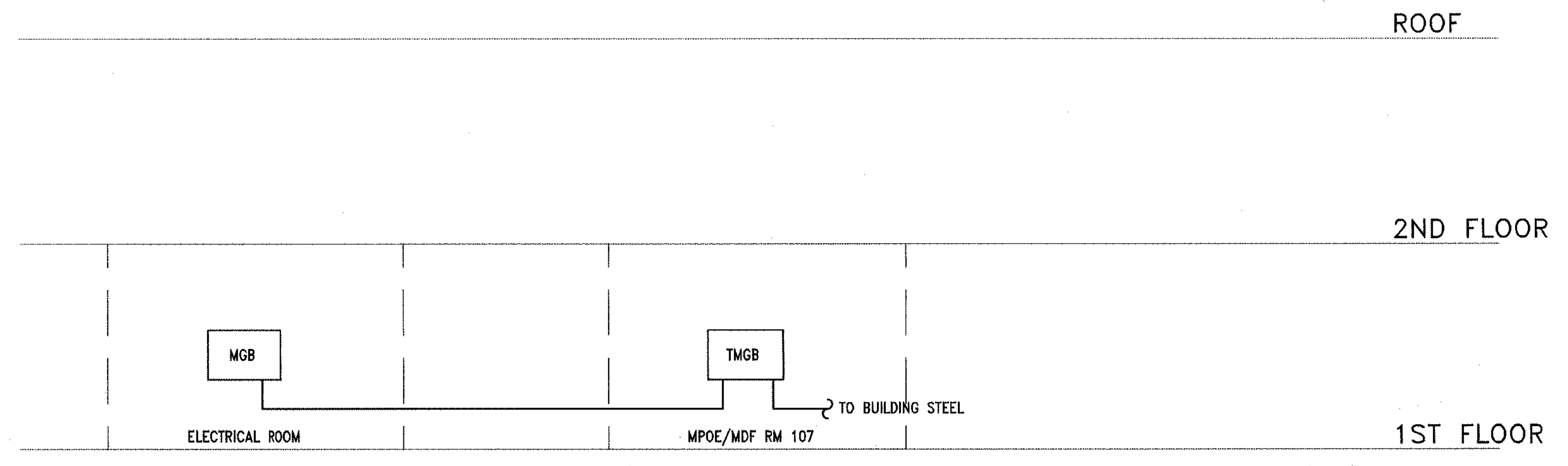
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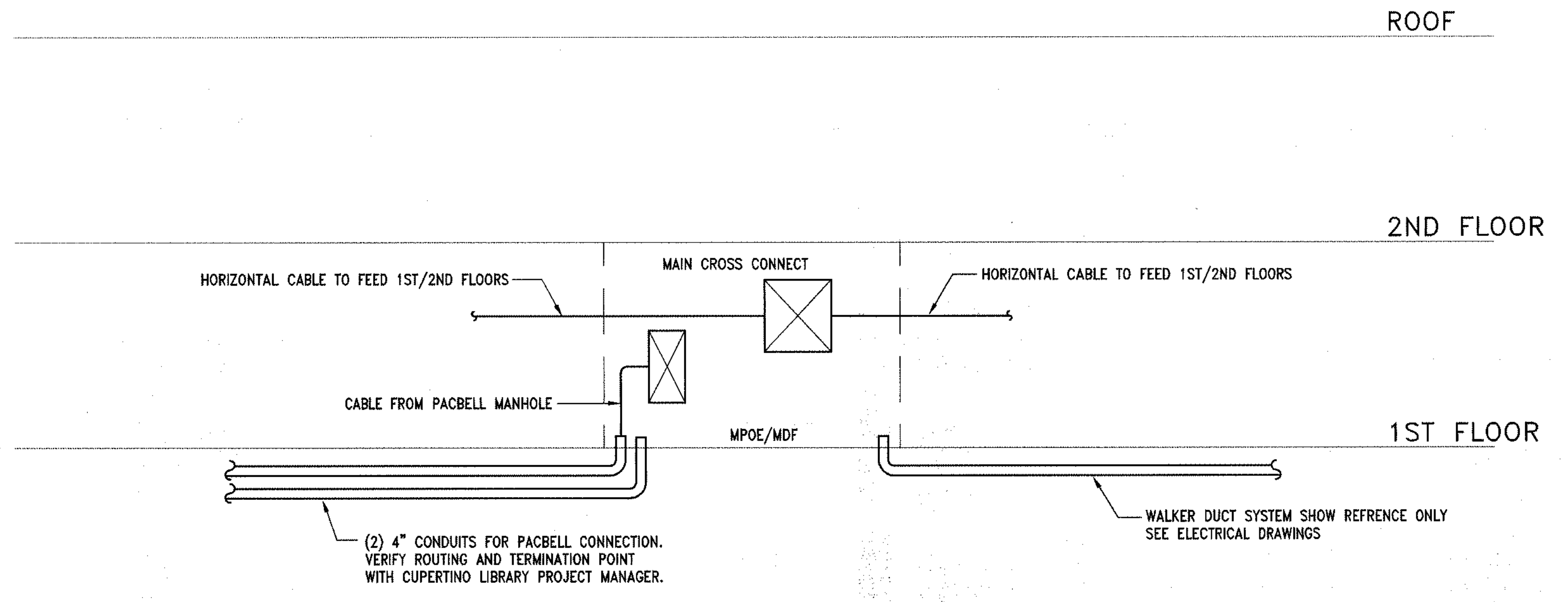
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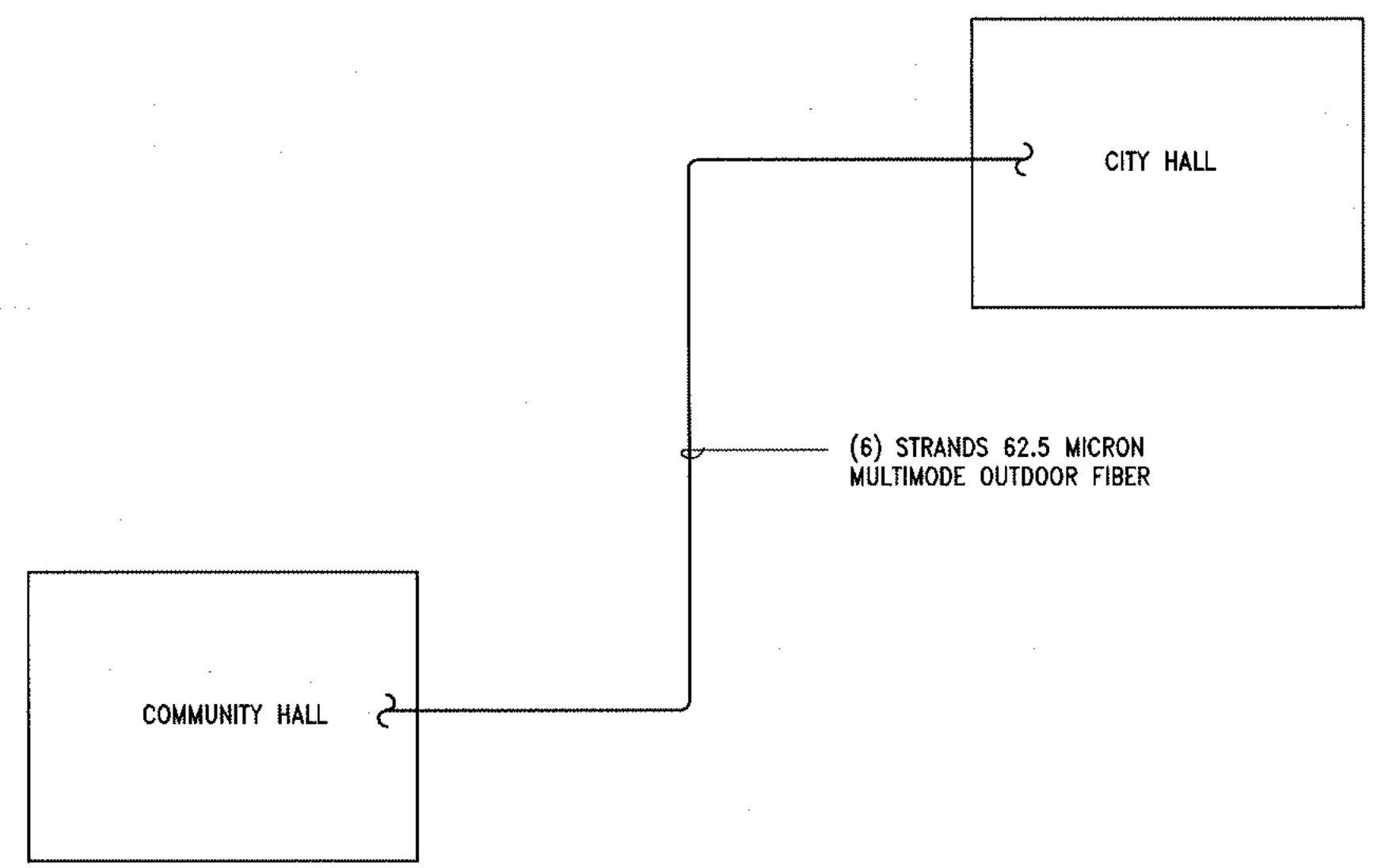
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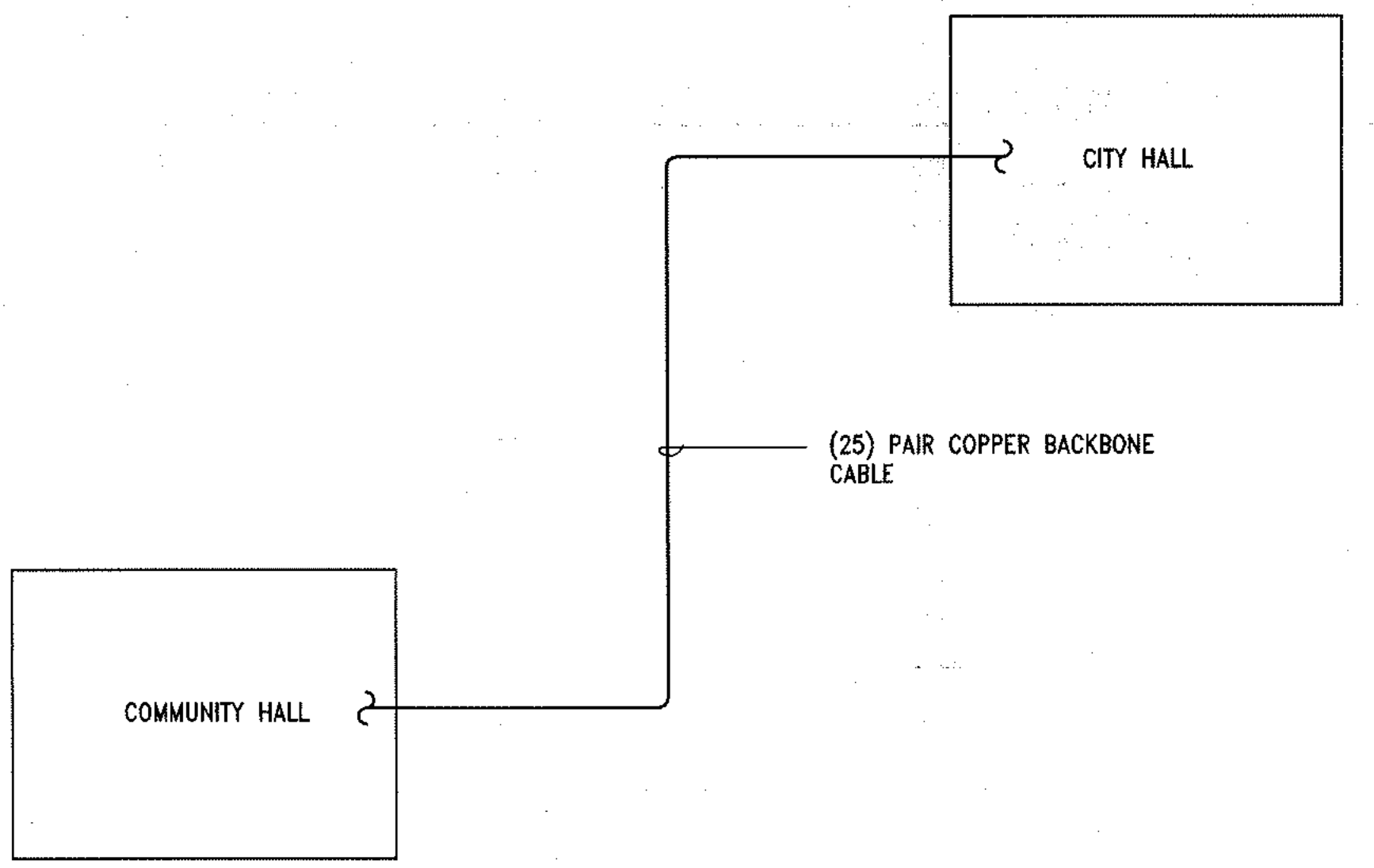
4 TELECOMMUNICATIONS RISER/GROUNDING LIBRARY NO SCALE



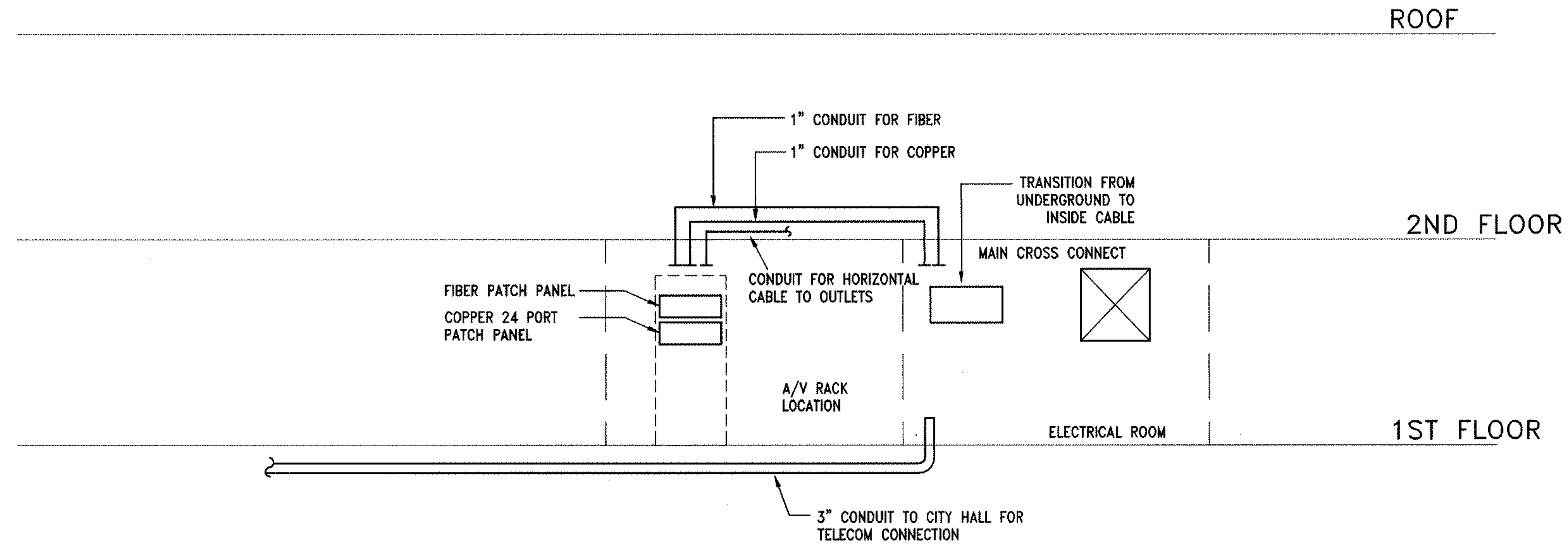
1 TELECOMMUNICATIONS RISER (COPPER) LIBRARY NO SCALE



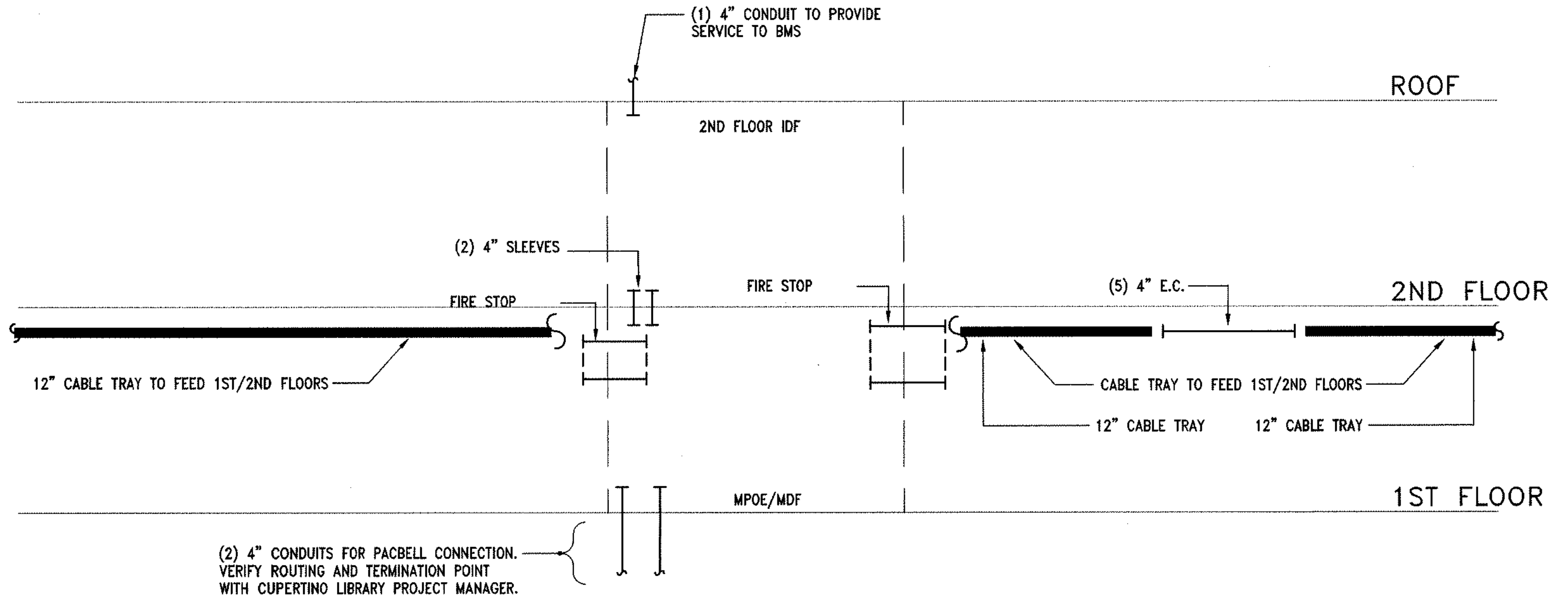
5 FIBER COUNT CIVIC CENTER NO SCALE



2 COPPER BACKBONE CABLE CIVIC CENTER NO SCALE



6 TELECOMMUNICATIONS RISER (PATHWAYS) COMMUNITY HALL NO SCALE



3 TELECOMMUNICATIONS RISER (PATHWAYS) LIBRARY NO SCALE

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TELECOM RISER DIAGRAM

Scale: NONE date: 2003.04.18
 Drawn by: LL project number: 01.03770.00
 Sheet number:

T4.10

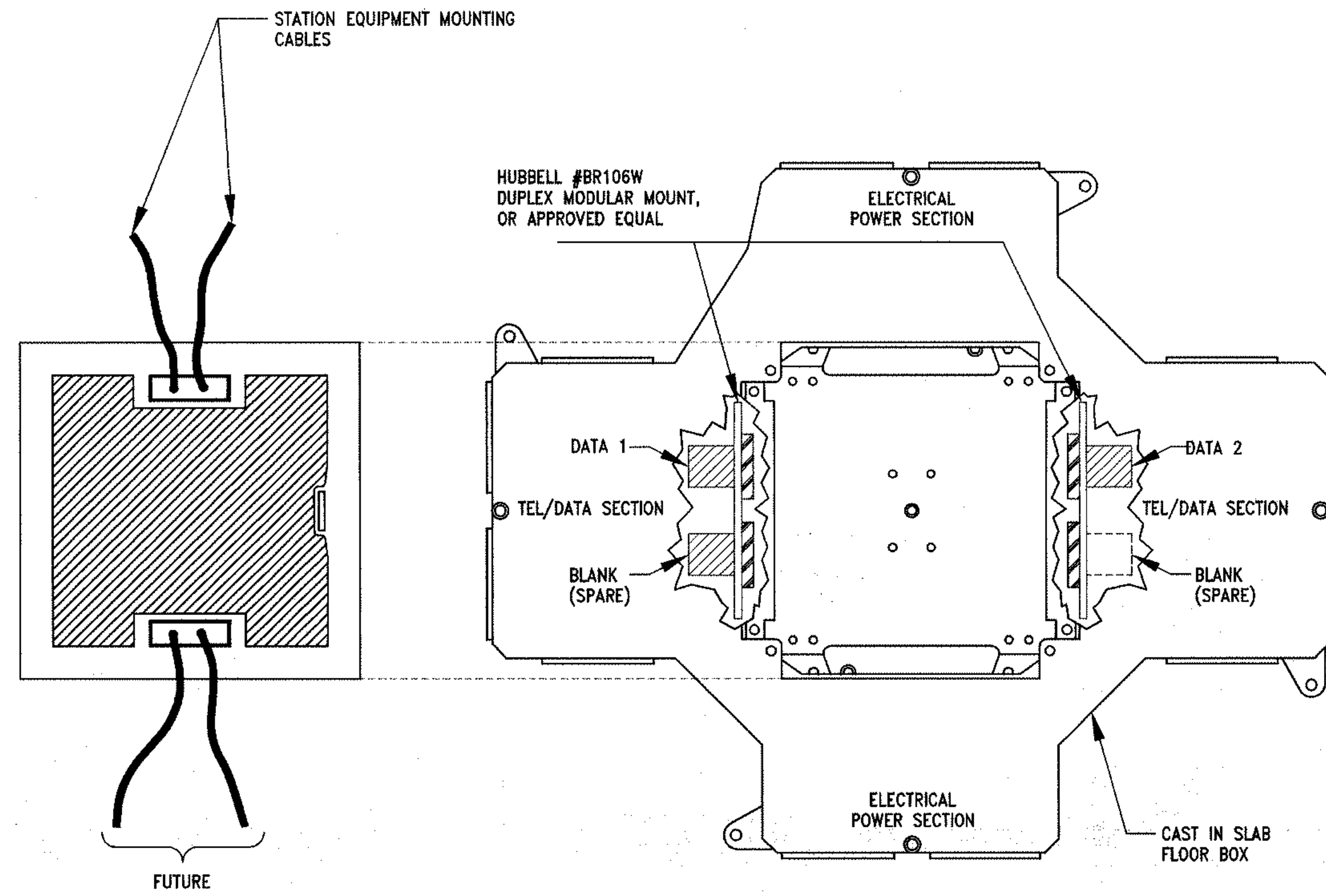
SHEET NOTES

A. CABLE TERMINATIONS

- CATEGORY-6 CABLE USED FOR DATA SHALL BE TERMINATED IN PATCH PANELS MOUNTED IN RACKS OR CABINETS.
- CATEGORY-6 CABLE USED FOR VOICE SHALL BE TERMINATED ON 110-STYLE OR 66-STYLE TERMINATION BLOCKS. THE VOICE FRAME MUST BE PLACED AT A FURTHER DISTANCE THAN THE DATA RACKS TO INSURE THAT THE CATEGORY-6 CABLE DESIGNATED FOR VOICE CAN AT SOME TIME BE ROUTED BACK TO THE DATA RACKS.
- THE VOICE FRAME SHOULD BE MOUNTED ON 19 INCH RACKS IF CLOSET SPACE ALLOWS.
- CROSS-CONNECTIONS FOR VOICE AND DATA ARE TO BE COMPLETED BY AUTHORIZED CONTRACTOR AND PERSONNEL AS DETERMINED BY THE CUPERTINO LIBRARY.

B. COMMUNICATION RACKS

- THE 19" DATA RACKS SHALL BE A MINIMUM OF 72" TALL, HAVE AN INTEGRATED CABLE MANAGEMENT SYSTEM TO ENSURE COMPLIANT BEND RADIUSES, HAVE A MINIMUM 4' 120 VAC POWER STRIP WITH A 6 FOOT HARDWIRED PIGTAIL, A MINIMUM OF EIGHT GROUNDED OUTLETS AND A 15 AMP POWER RATING.
- ALL RACKS SHALL BE GROUNDED TO THE TC GROUND SYSTEM WITH A #6 AWG COPPER GROUND WIRE AND BONDED TO THE RACK WITH AN APPROVED PHYSICAL CONNECTOR.

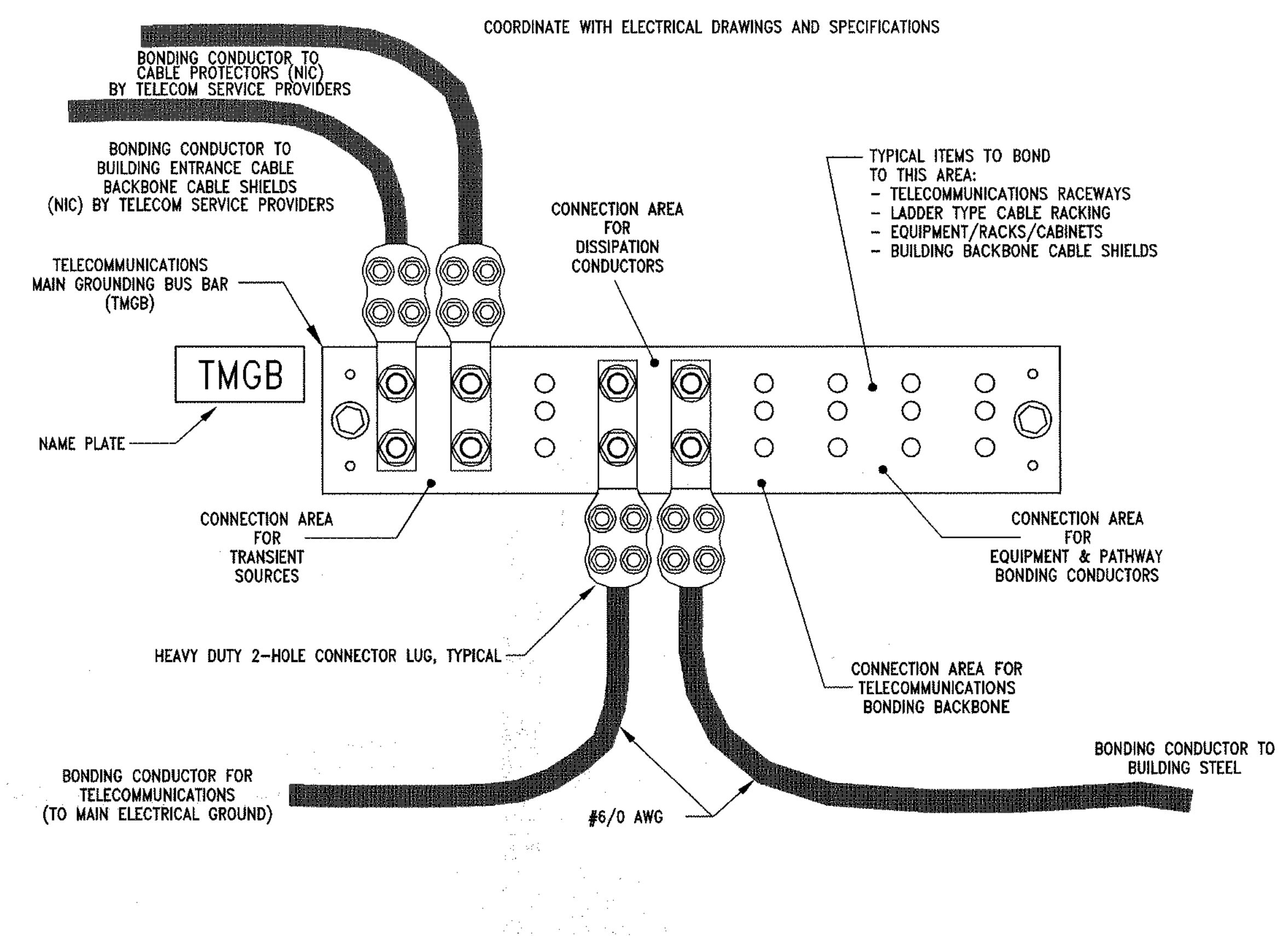


COORDINATE WITH ELECTRICAL SPECIFICATIONS AND DRAWINGS. PROVIDE (2) JACKS IN EACH FLOOR BOX FOR DATA (2) BLANKS JACKS WILL BE FOR FUTURE USE. MANUFACTURER OF JACKS SHALL MEET REQUIREMENTS OF FLOOR BOX INSTALLED.

SYMBOLS: AND/OR

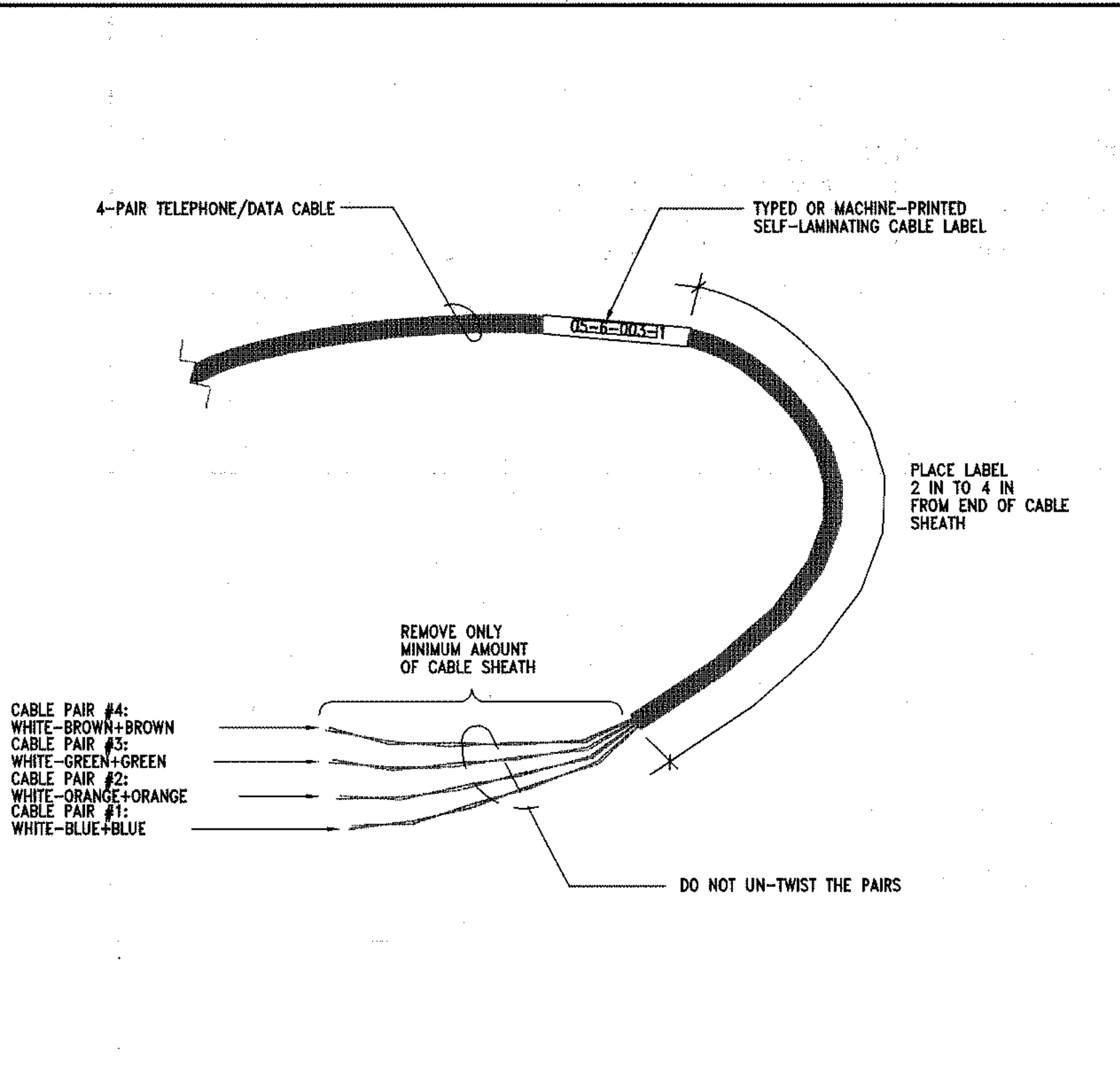
4 TELECOMMUNICATIONS FLUSH FLOOR BOX - TYPICAL OUTLET CONFIGURATIONS WITH AND WITHOUT ELECTRICAL POWER OUTLETS

NO SCALE



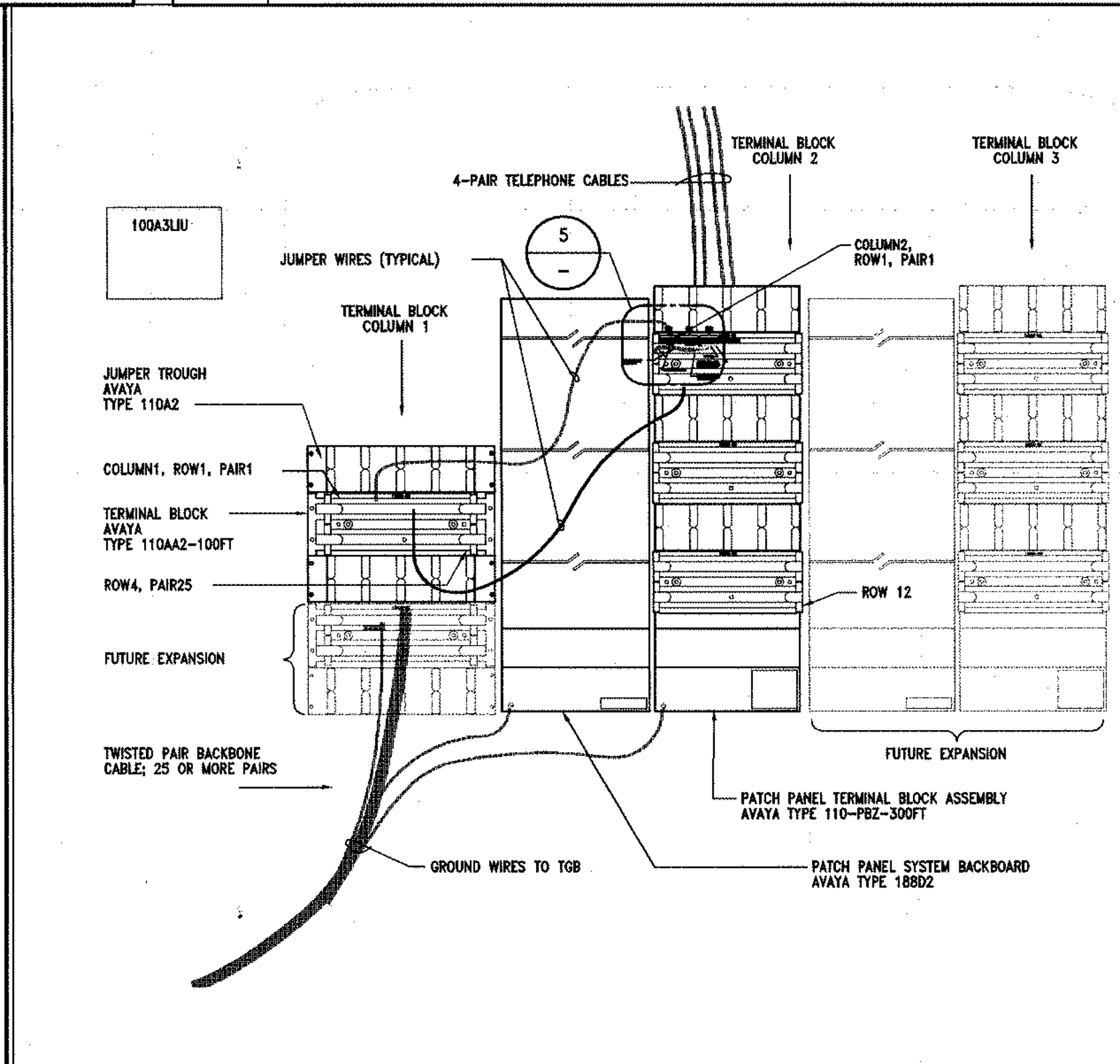
1 TELECOMMUNICATIONS MAIN GROUNDING BUS BAR (TMGB)

NO SCALE



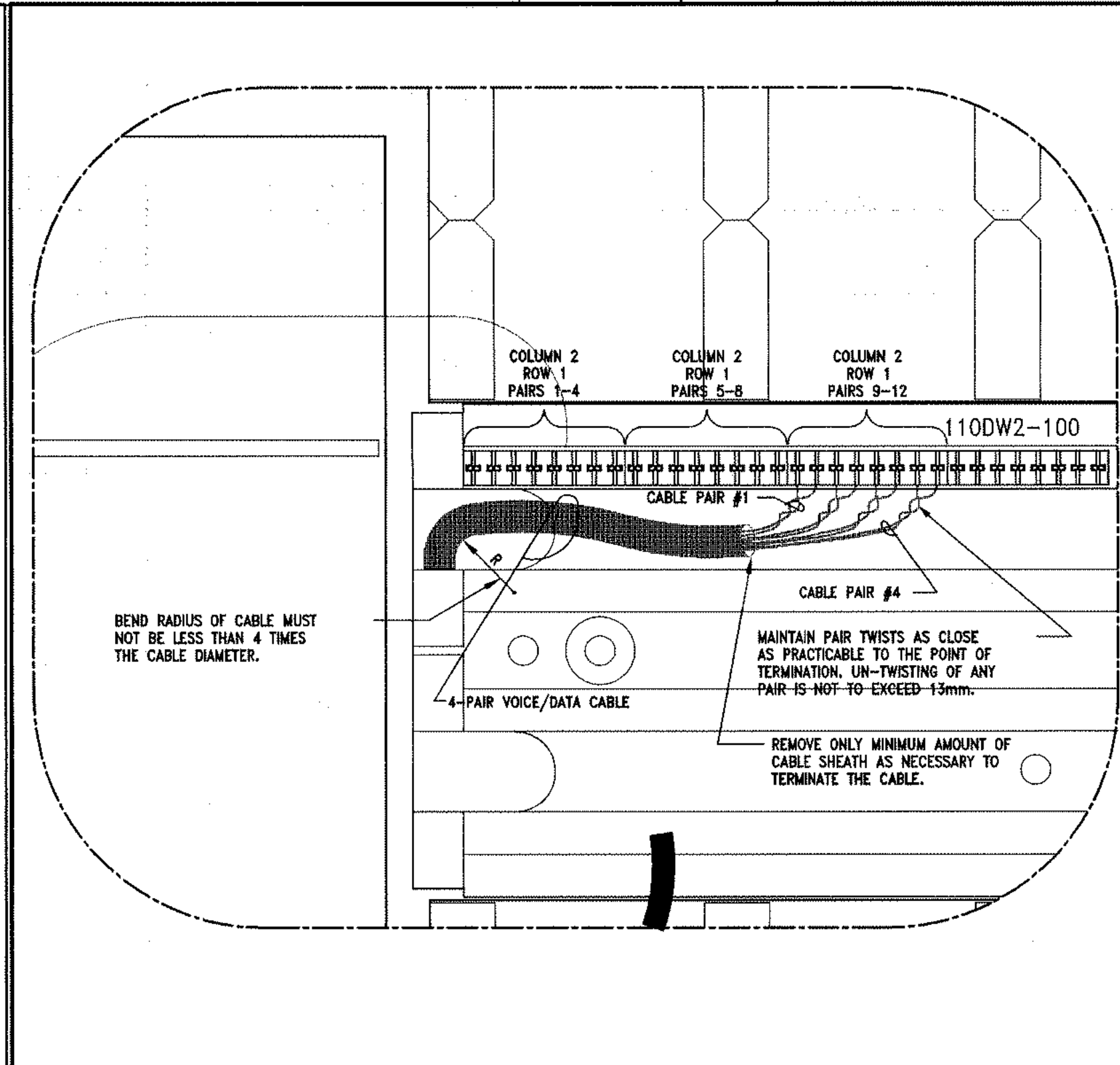
8 TYPICAL CATEGORY 6 UTP CABLE PREPARATION

NO SCALE



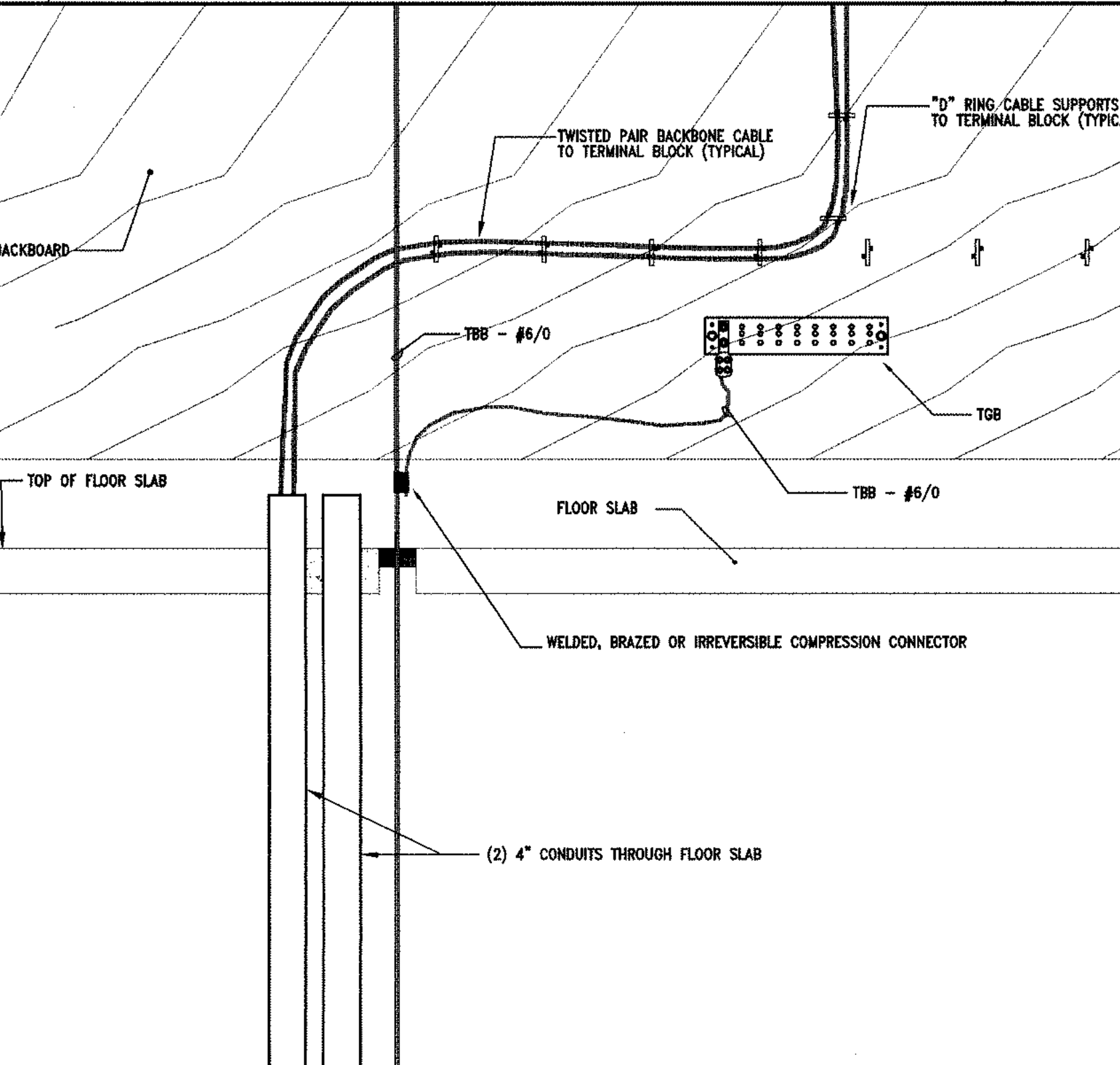
7 TYPICAL WALL PUNCH DOWN BLOCK TERMINATION ELEVATION

NO SCALE



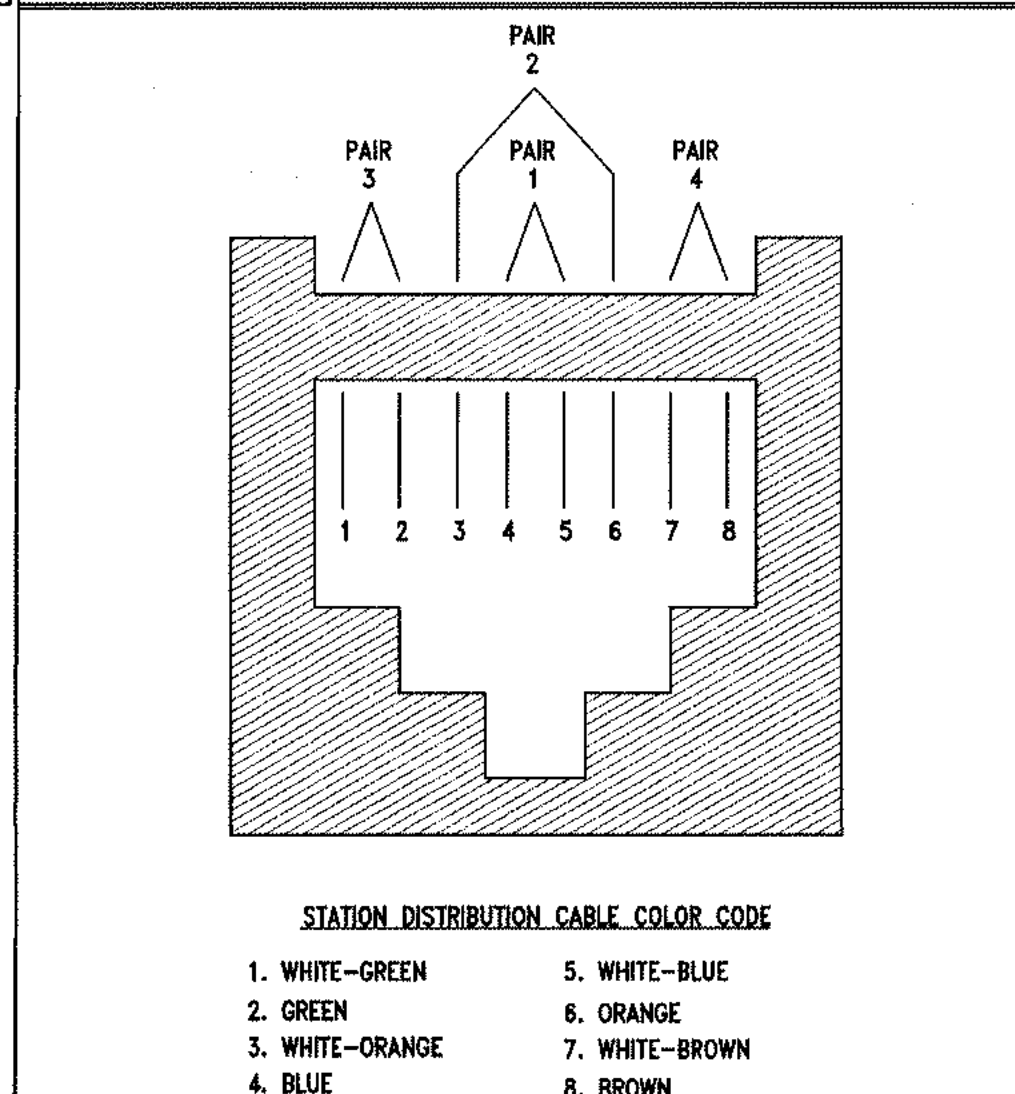
5 TYPICAL 110 BLOCK CATEGORY 5E TERMINATIONS

NO SCALE



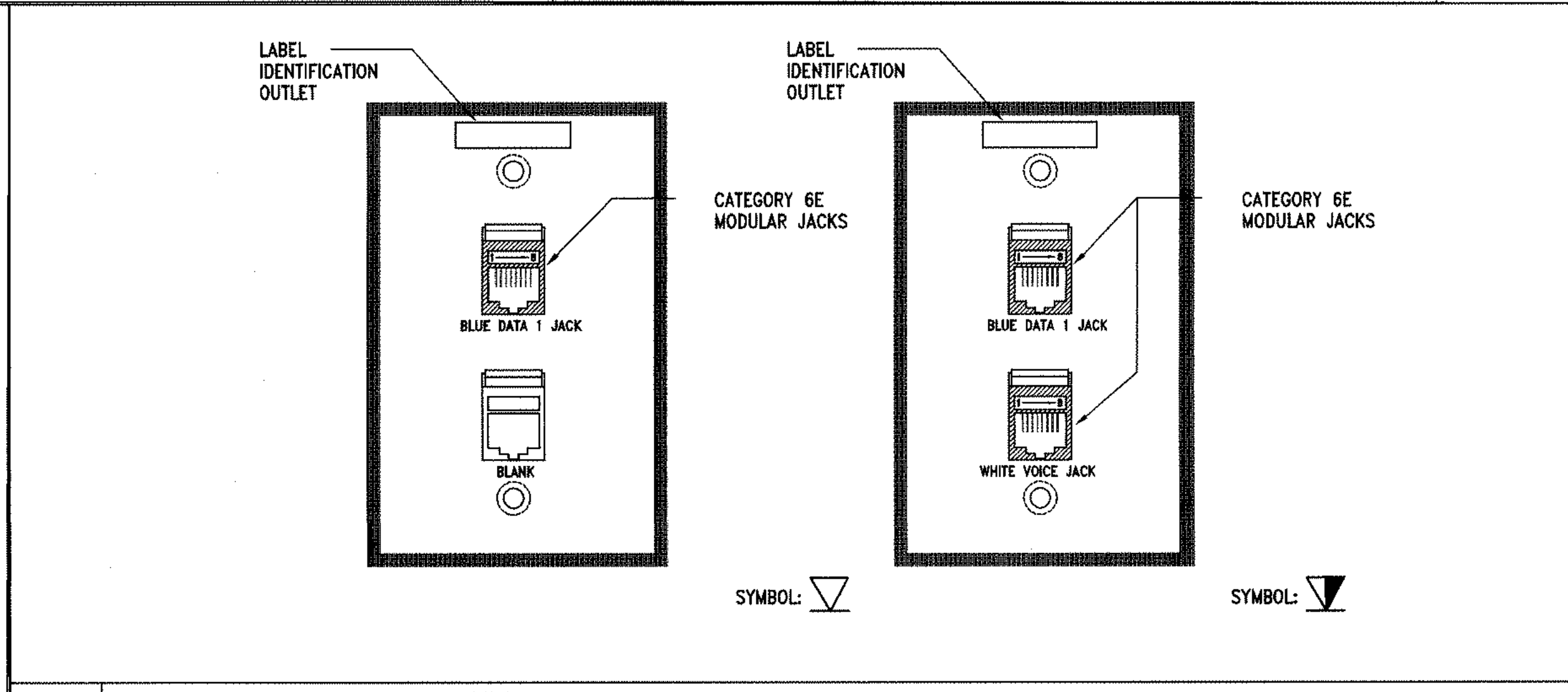
9 TYPICAL WALL ELEVATION

NO SCALE



6 TELECOMMUNICATION EIGHT POSITION JACKS T568A PIN/PAIR ASSIGNMENTS

NO SCALE



3 TYPICAL CATEGORY 5E OUTLETS

NO SCALE

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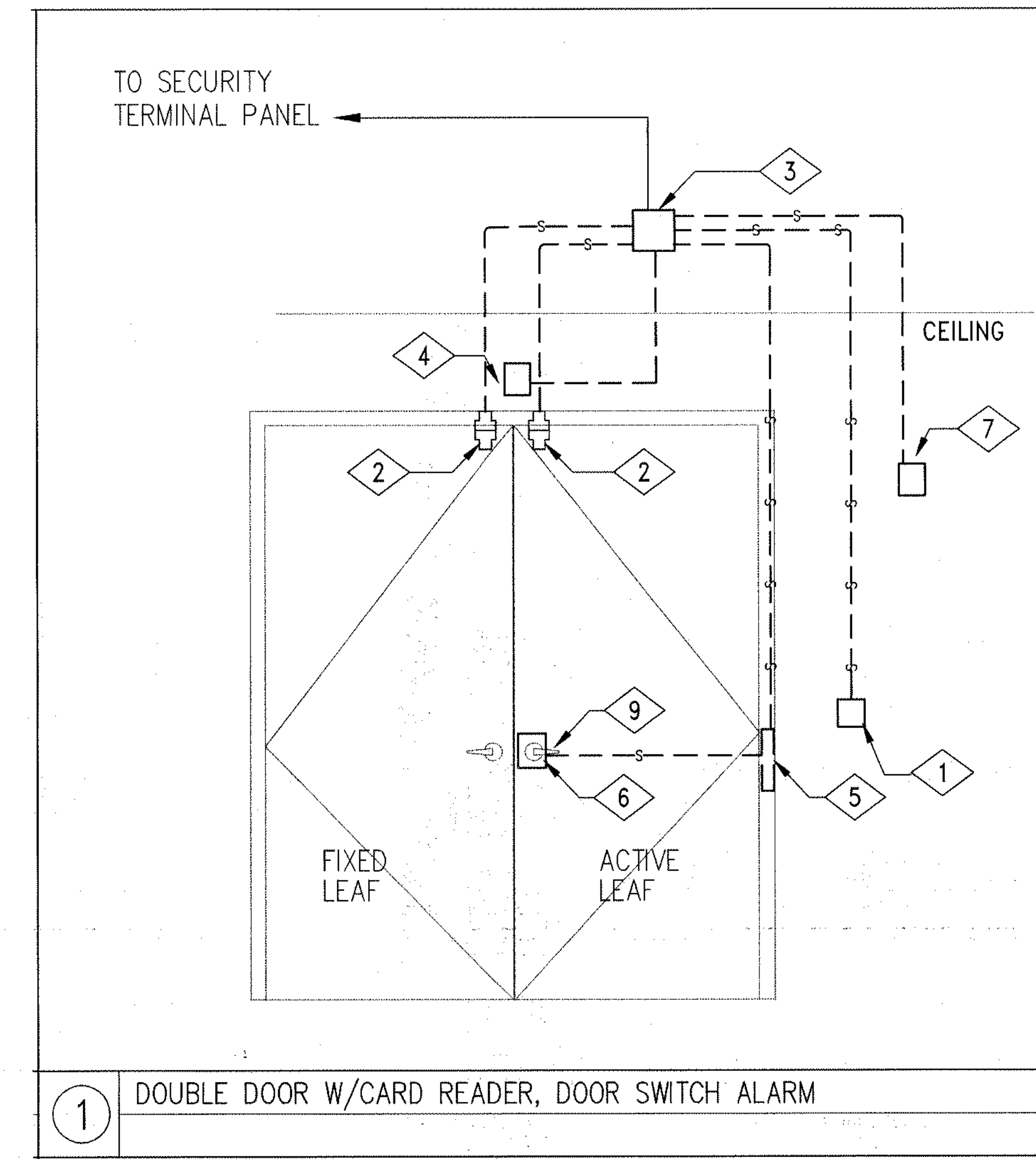
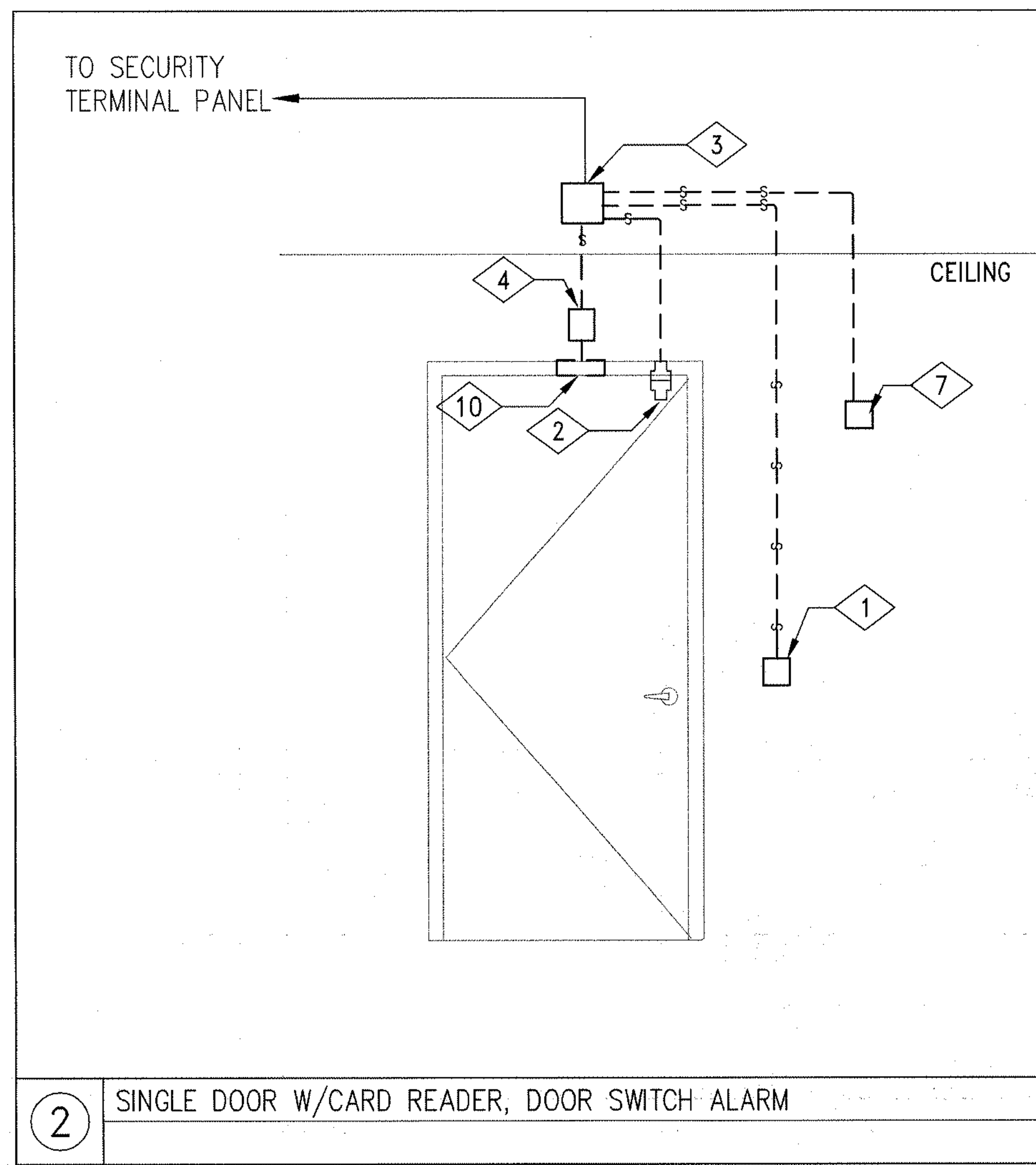
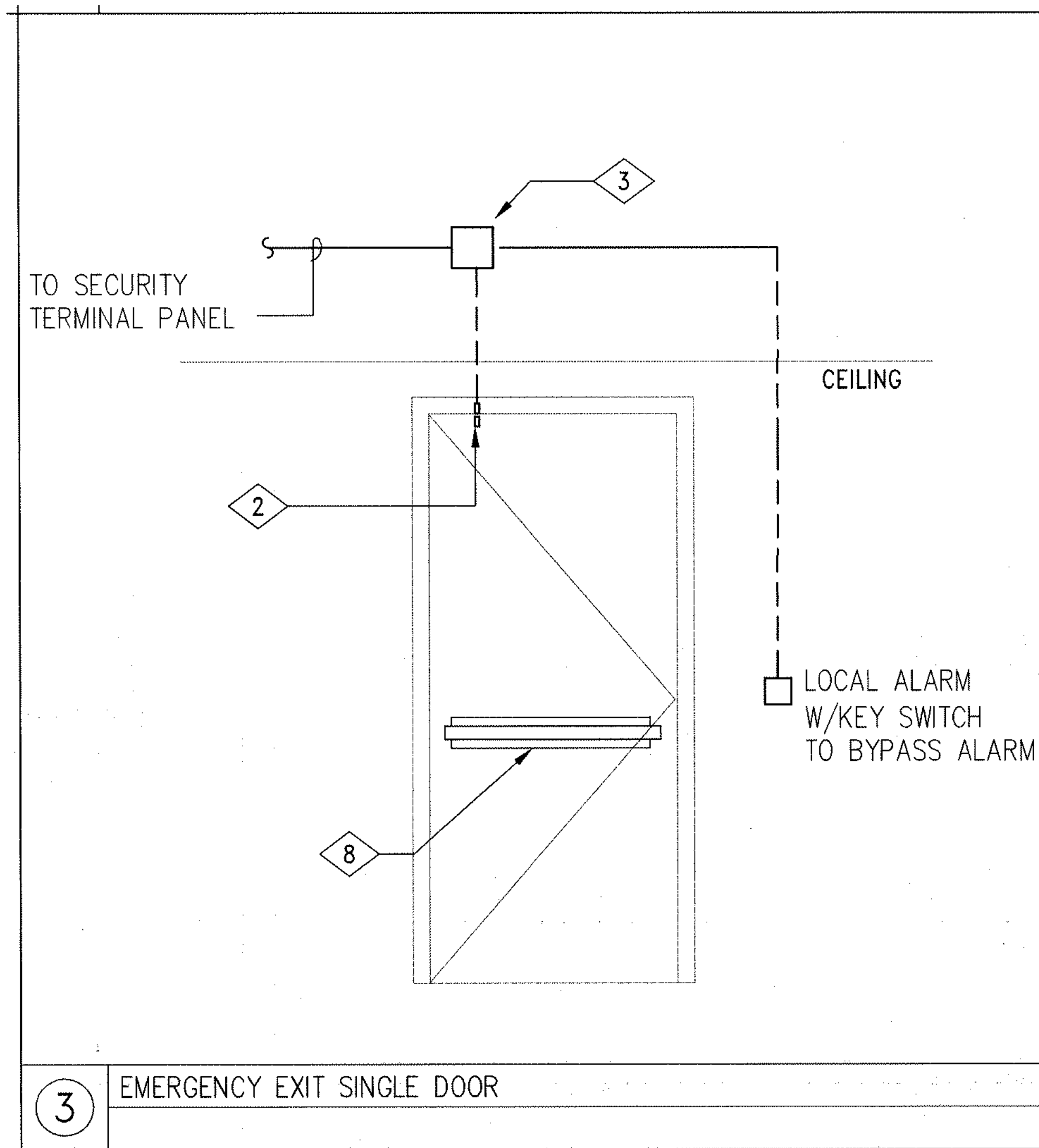
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 Issue
 BID SET
 Sheet Title

TELECOM/SECURITY
 DETAILS

Scale NONE date 2003.04.18
 Drawn by LL project number 01.03770.00
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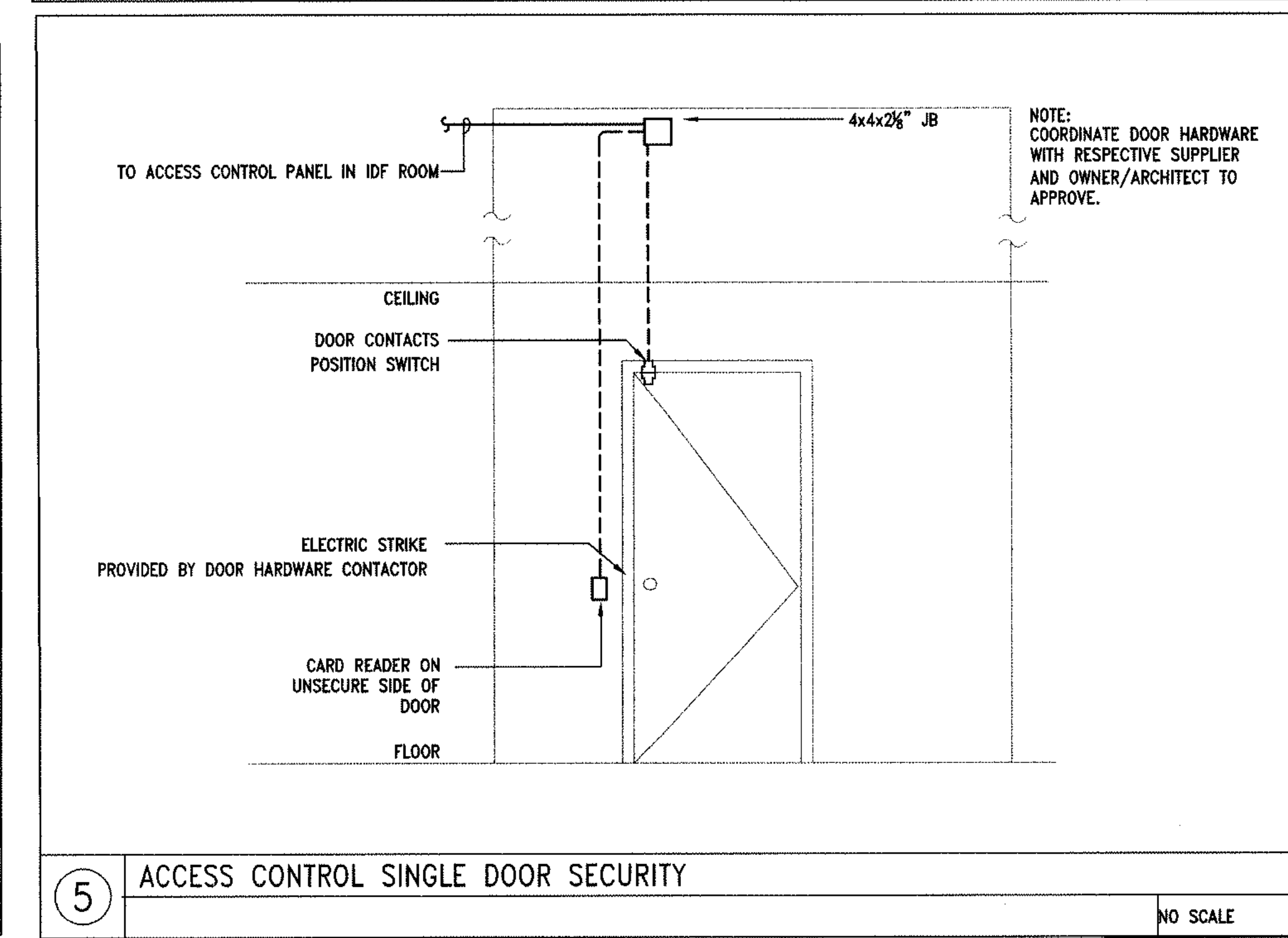
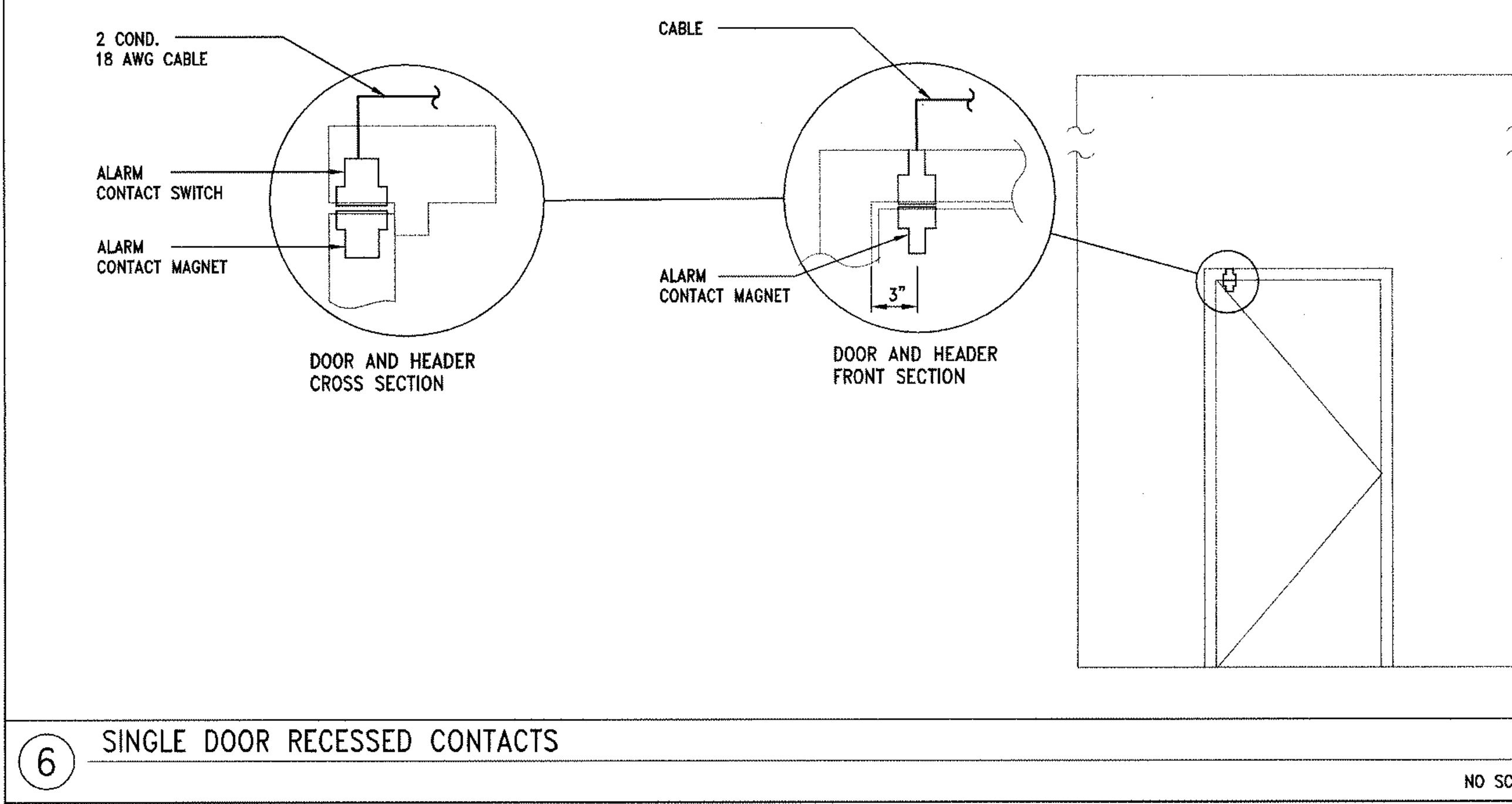
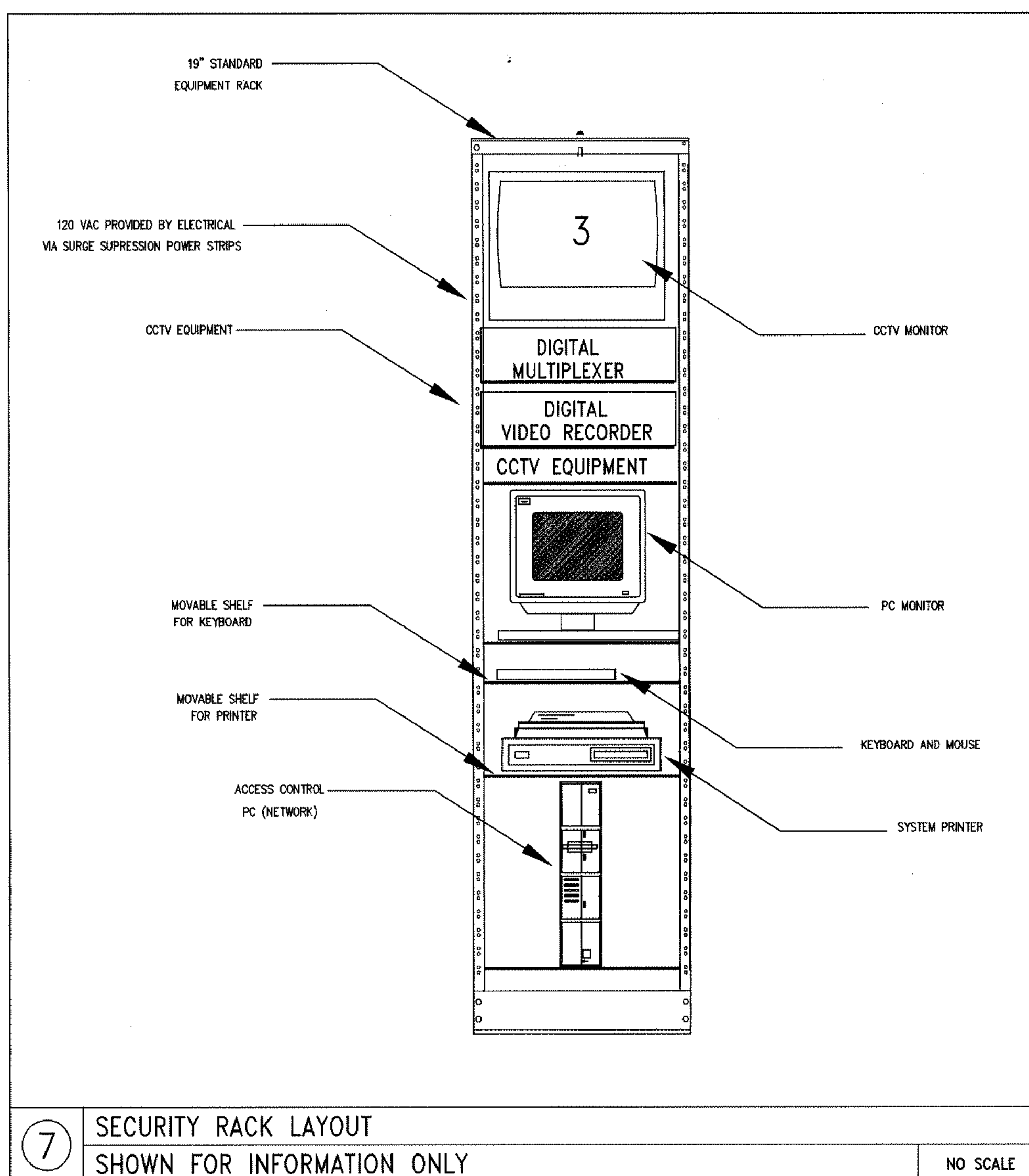
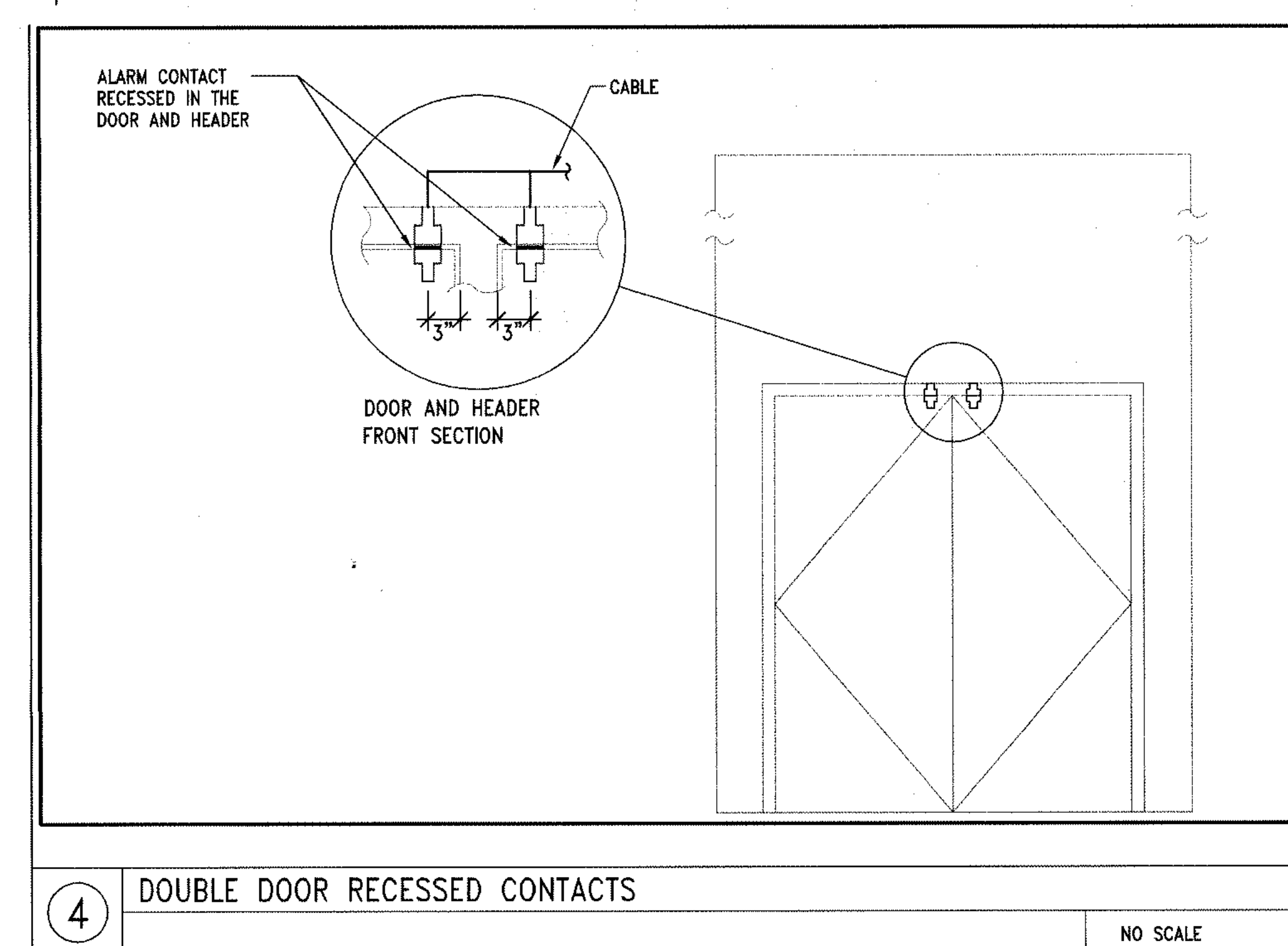
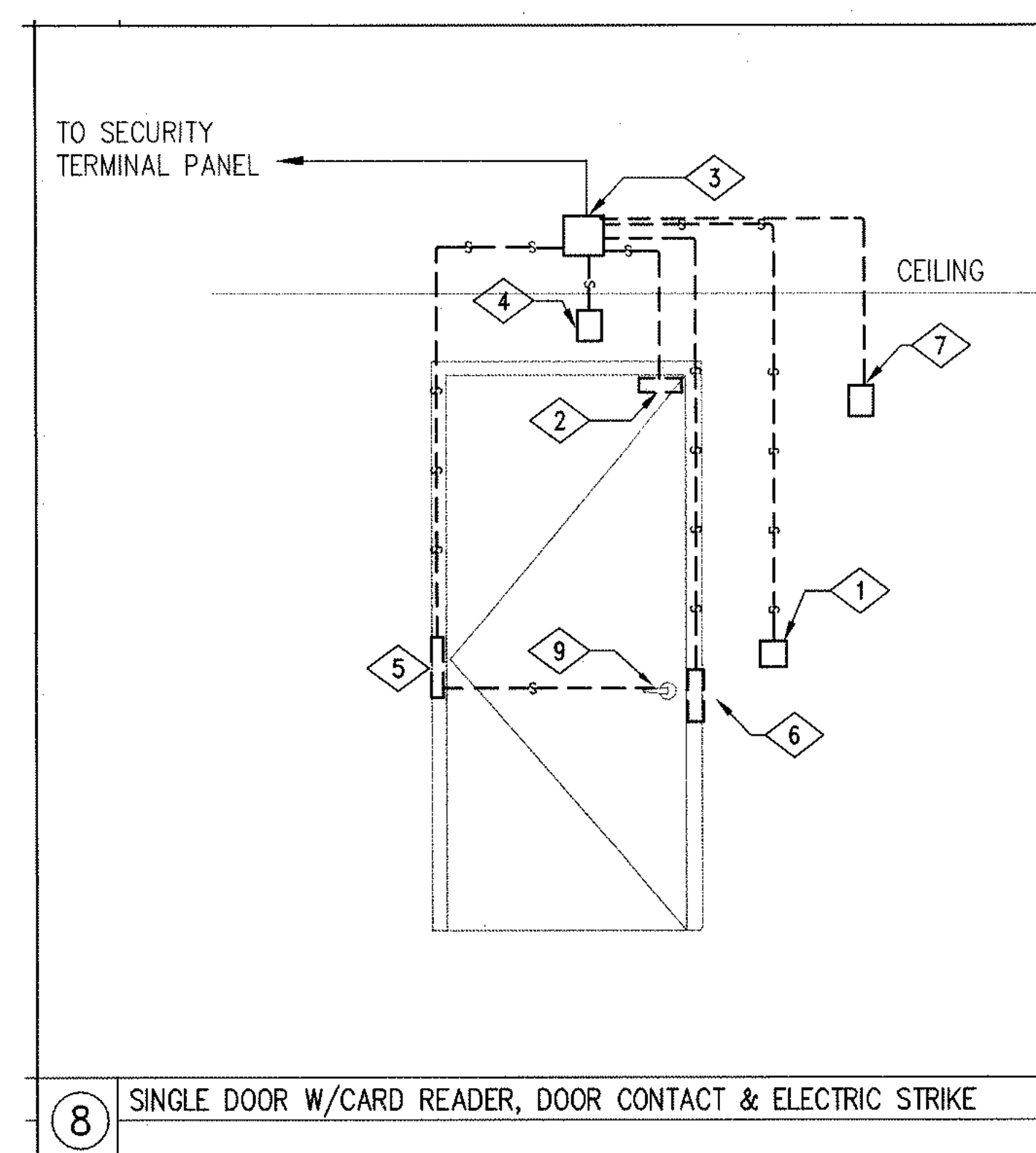


SPECIAL NOTES

- A. DOOR CONTACTS, ELECTRIC LOCKS AND STRIKES, ARE TO BE SUPPLIED BY DOOR HARDWARE SUPPLIER. DOOR HARDWARE SUPPLIER IS TO PREP DOORS AND FRAME FOR DOOR CONTACTS, WIRING AND INSTALLATION PROVIDED BY SECURITY CONTRACTOR.
- B. VERIFY WITH ARCHITECT, ALL MOUNTING DETAILS INCLUDING LOCATION AND HEIGHT OF ALL SECURITY DEVICES PRIOR TO INSTALLATION.
- C. DRAWINGS ARE DIAGRAMMATIC.

NUMBERED NOTES

- 1 PROVIDE 4X4 BOX WITH SINGLE GANG DEVICE RING FOR CARD READER.
- 2 STUB CONDUIT INTO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH.
- 3 PROVIDE JUNCTION BOX SURFACE MOUNTED ABOVE DOOR ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.
- 4 PROVIDE 4X4X2 1/2" BOX WITH SINGLE GANG DEVICE RING FOR FLUSH MOUNTED ON THE CEILING FOR PASSIVE INFARED MOTION DETECTOR.
- 5 STUB CONDUIT DOWN DOOR FRAME FOR AND CONNECT TO TRANSFER HINGE TO LOCK.
- 6 ELECTRO-MECHANICAL LOCK SET OR ELECTRIC STRIKE.
- 7 PROVIDE 4X4X2 1/2" BOX WITH SINGLE GANG DEVICE RING FOR FLUSH MOUNTED IN THE WALL FOR LOCAL ALARM SOUNDER.
- 8 ELECTRIFIED PANIC HARDWARE PROVIDED BY DOOR HARDWARE PROVIDER COORDINATE ELECTRICAL REQUIREMENTS
- 9 REQUEST TO EXIT (RTE) DEVICES LOCATED IN DOOR HANDLE.
- 10 REQUEST TO EXIT (RTE) PIR DEVICE.



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Issue

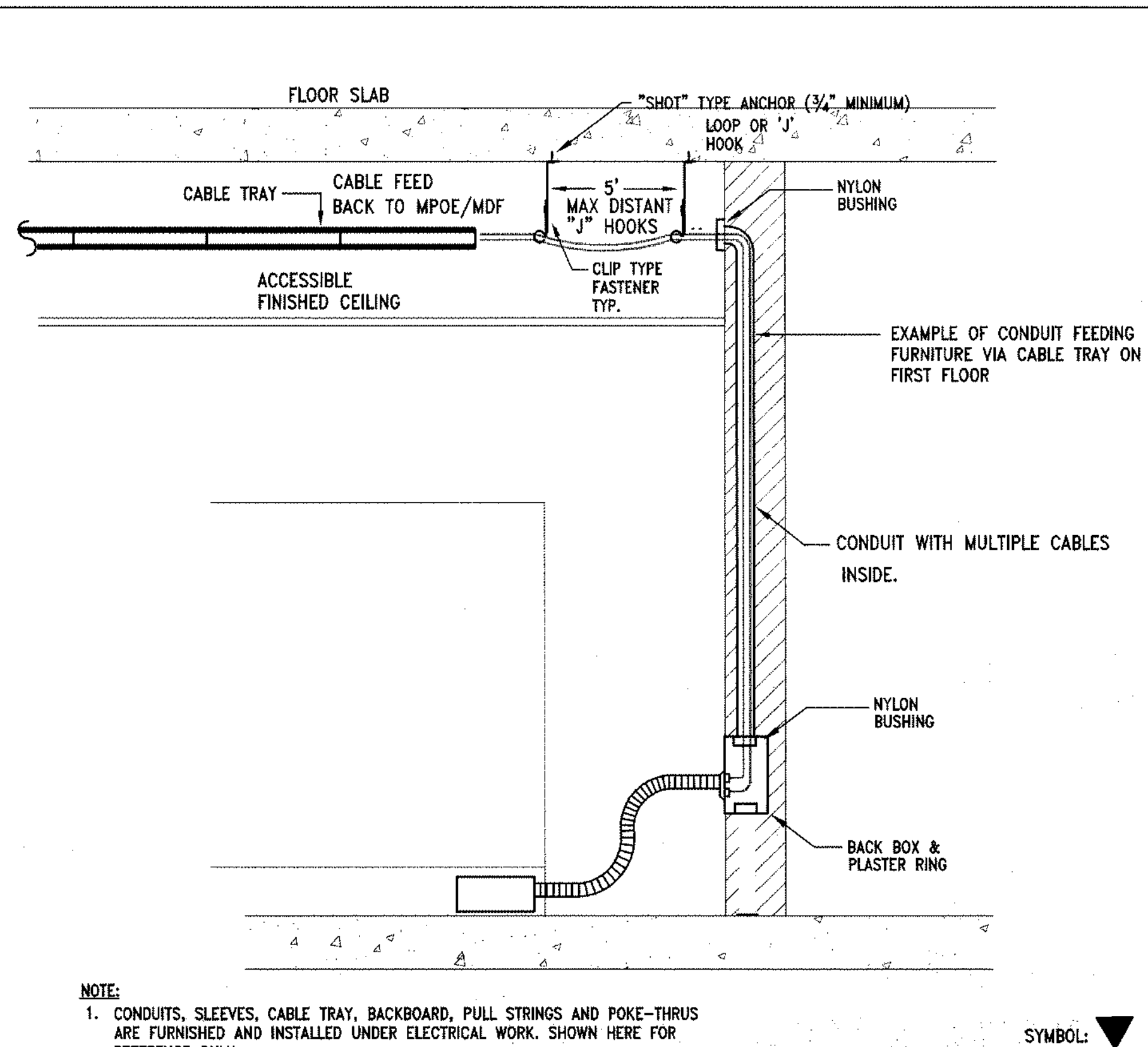
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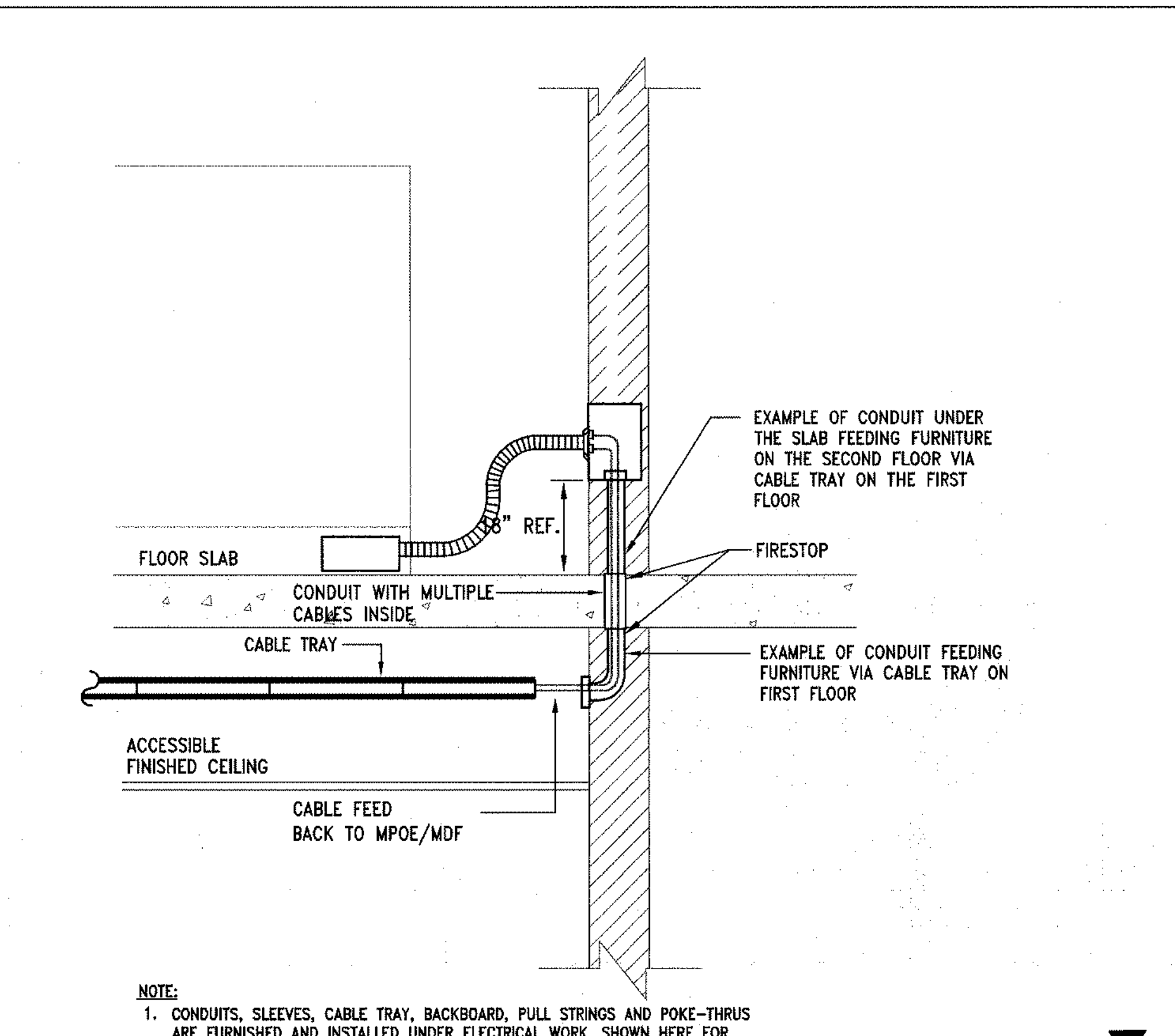
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 Sheet number

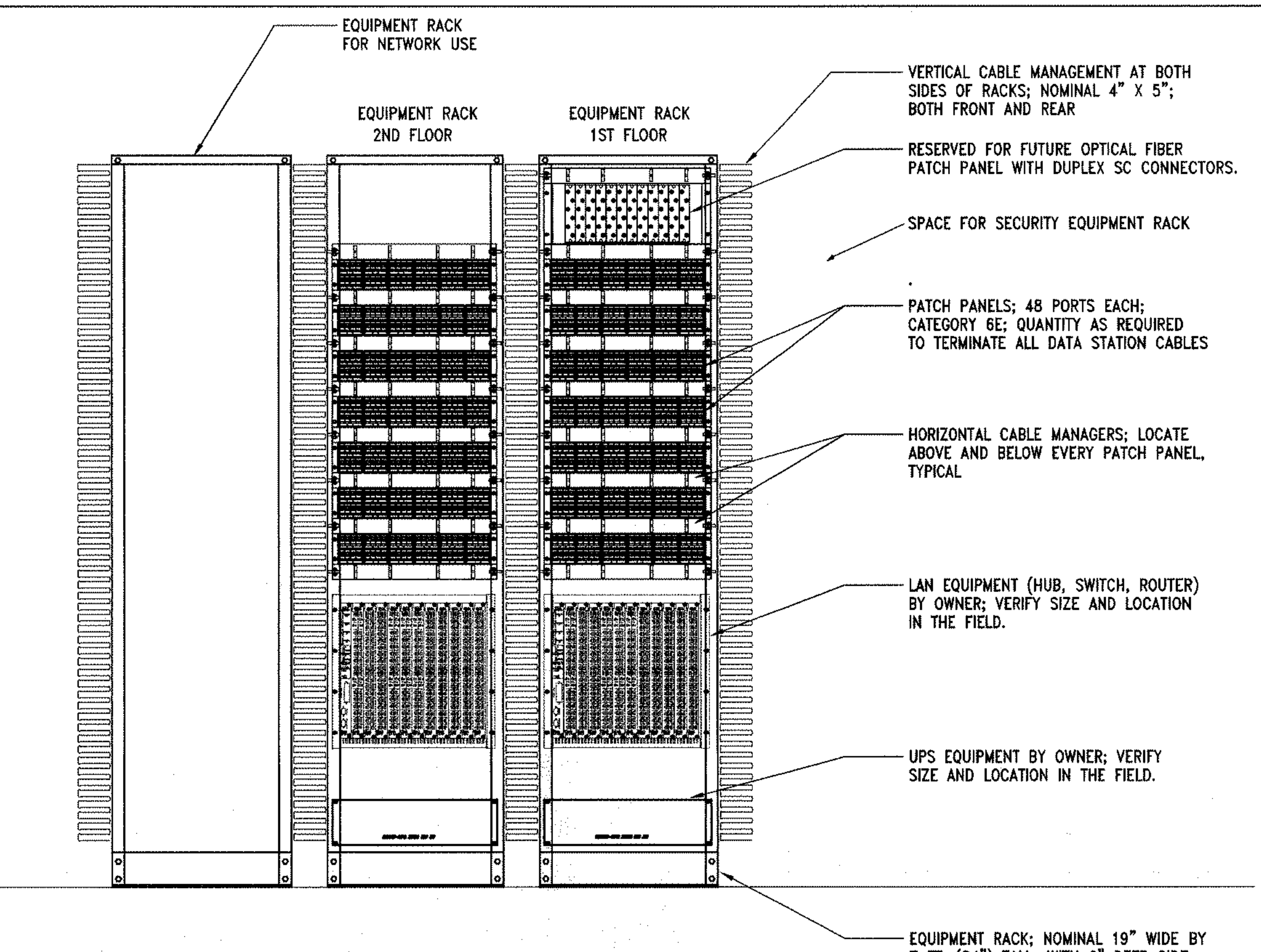
T5.11



3 CONDUIT TO FURNITURE TELECOM FEED - FIRST FLOOR NO SCALE



2 FURNITURE TELECOM FEED - FIRST FLOOR/SECOND FLOOR NO SCALE



1 TYPICAL INSTALLATION ARRANGEMENT OF EQUIPMENT/RELAY RACKS, PATCH PANELS AND EQUIPMENT IN MPOE/COMPUTER ROOMS NONE

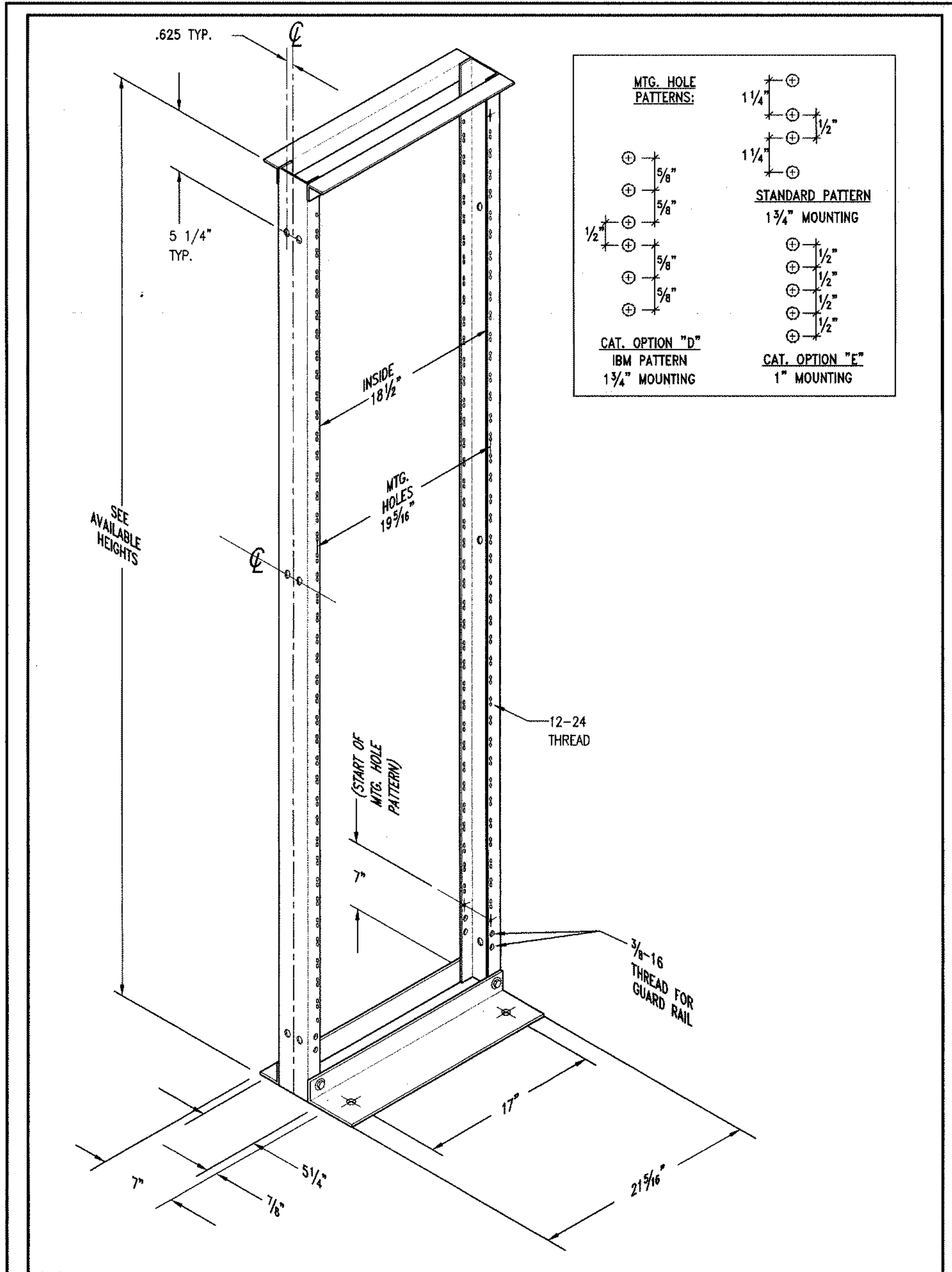
SHEET NOTES

A. CABLE TERMINATIONS

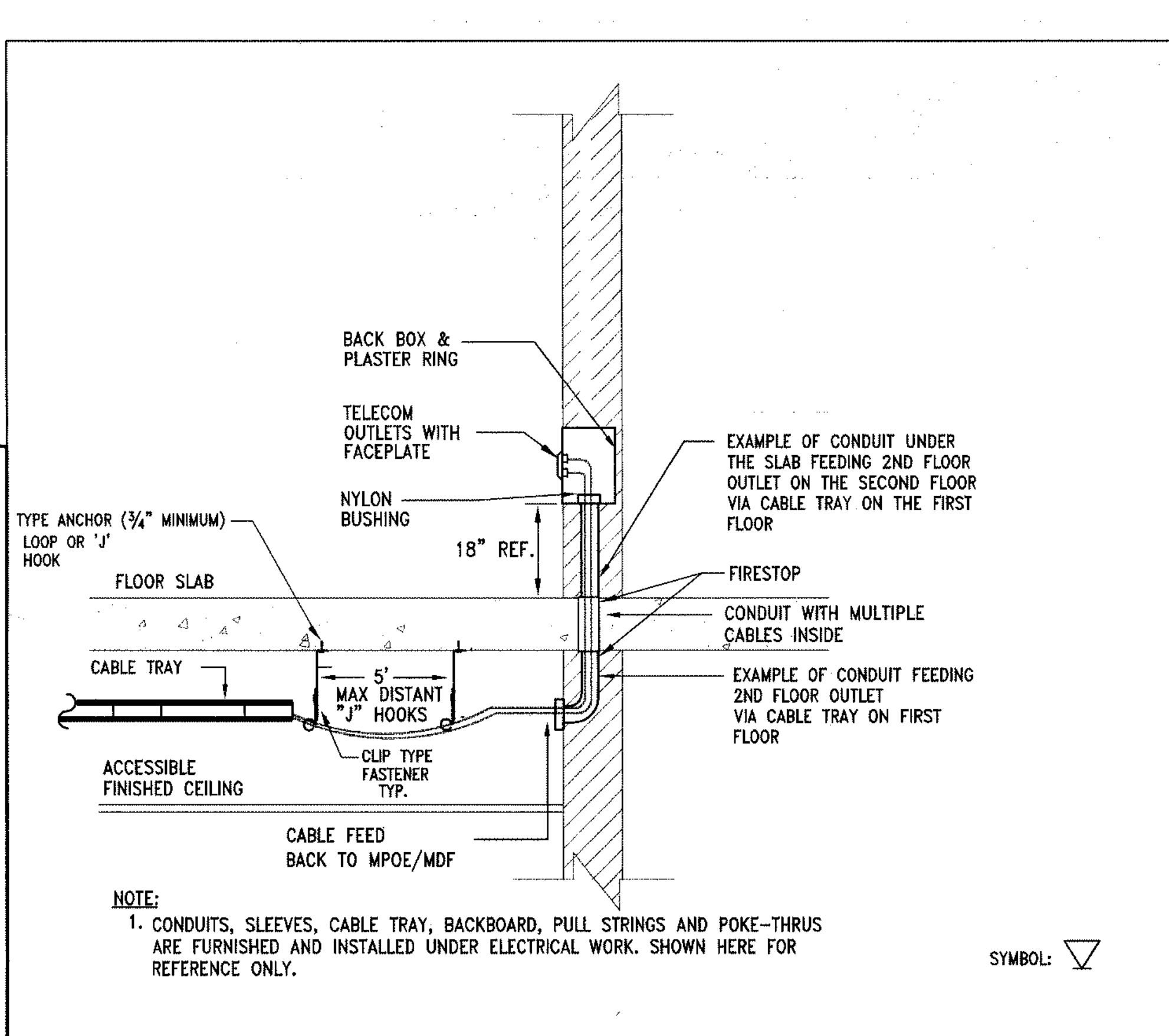
- CATEGORY-6 CABLE USED FOR DATA SHALL BE TERMINATED IN PATCH PANELS MOUNTED IN RACKS OR CABINETS.
- CATEGORY-6 CABLE USED FOR VOICE SHALL BE TERMINATED ON 110-STYCLE TERMINATION BLOCKS. THE VOICE FRAME MUST BE PLACED AT A FURTHER DISTANCE THAN THE DATA RACKS TO INSURE THAT THE CATEGORY-6 CABLE DESIGNATED FOR VOICE CAN AT SOME TIME BE ROUTED BACK TO THE DATA RACKS.
- THE VOICE FRAME SHOULD BE MOUNTED ON 19 INCH RACKS IF CLOSET SPACE ALLOWS.

B. COMMUNICATION RACKS

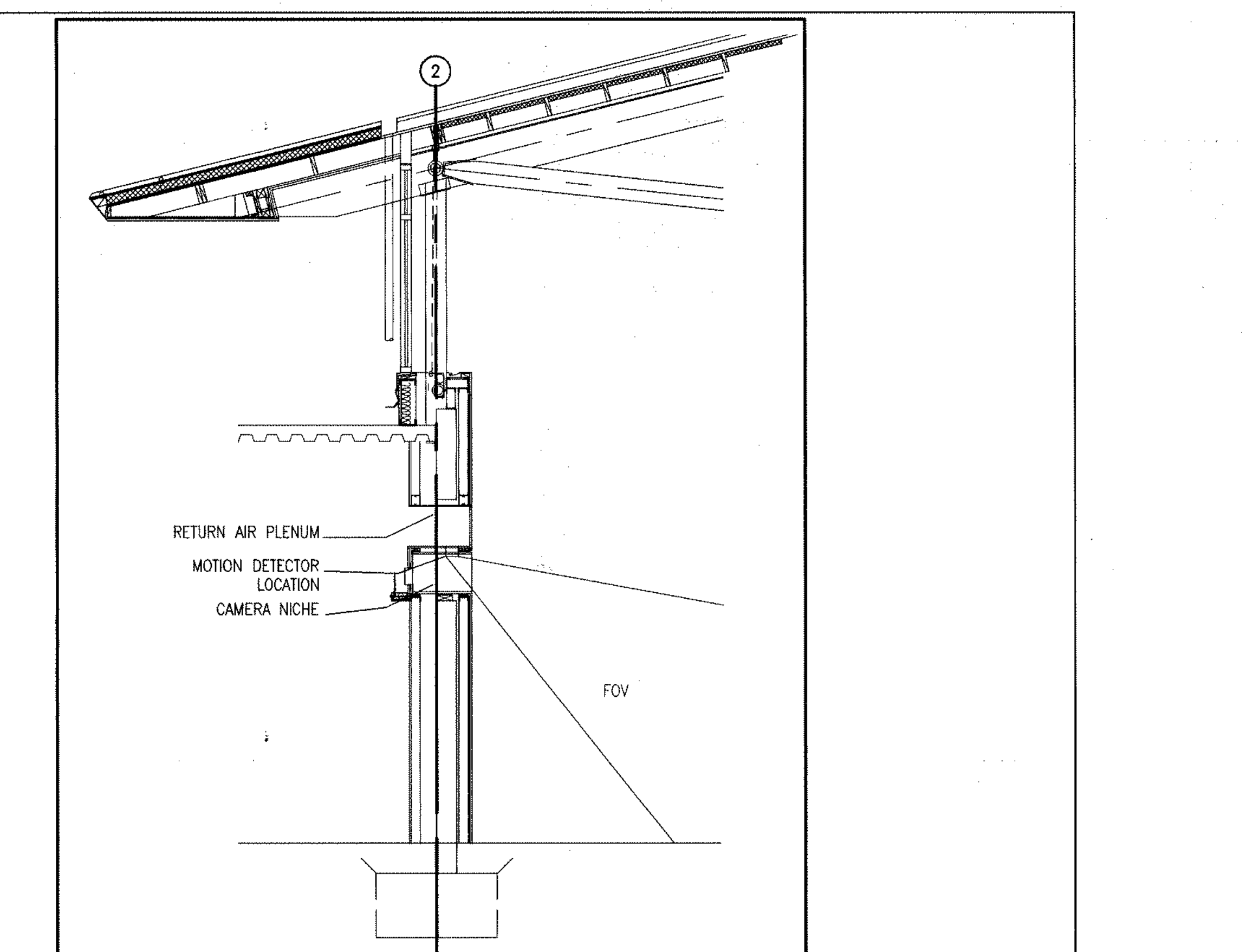
- THE 19" DATA RACKS SHALL BE A MINIMUM OF 72" TALL, HAVE AN INTEGRATED CABLE MANAGEMENT SYSTEM TO ENSURE COMPLIANT BEND RADIIUSES, HAVE A MINIMUM 4' 120 VAC POWER STRIP WITH A 8 FOOT PIGTAIL, A MINIMUM OF EIGHT GROUNDED OUTLETS AND A 15 AMP POWER RATING.
- ALL RACKS SHALL BE GROUNDED TO THE TC GROUND SYSTEM WITH A #6 AWG COPPER GROUND WIRE AND BONDED TO THE RACK WITH AN APPROVED PHYSICAL CONNECTOR.
- NOTE THAT CABLE TRAY IN HALLWAYS IS DIFFERENT FROM LADDER RACK IN MPOE/COMPUTER ROOM. SEE CABLE TRAY DETAILS.
- COORDINATE WITH ELECTRICAL FOR FLUSH FLOOR OUTLETS, CONDUIT REQUIREMENTS ETC. 1ST AND 2ND FLOOR.



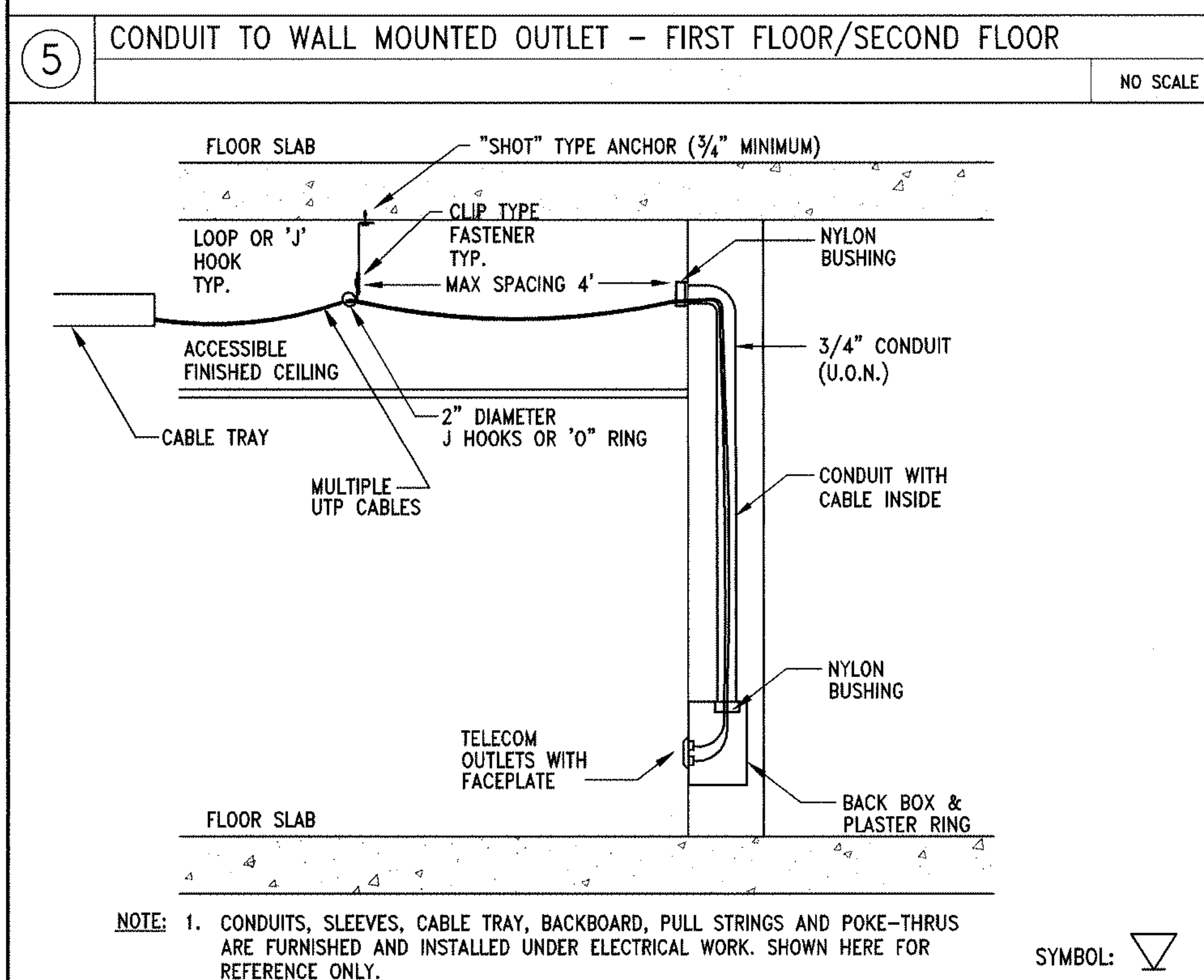
8 TYPICAL 19" RACK NO SCALE



5 CONDUIT TO WALL MOUNTED OUTLET - FIRST FLOOR/SECOND FLOOR NO SCALE



4 TYPICAL INSTALLATION ARRANGEMENT OF MOTION SENSOR IN CIVIC CENTER NICHE NO SCALE



6 CONDUIT TO WALL MOUNTED OUTLET - FIRST FLOOR NO SCALE

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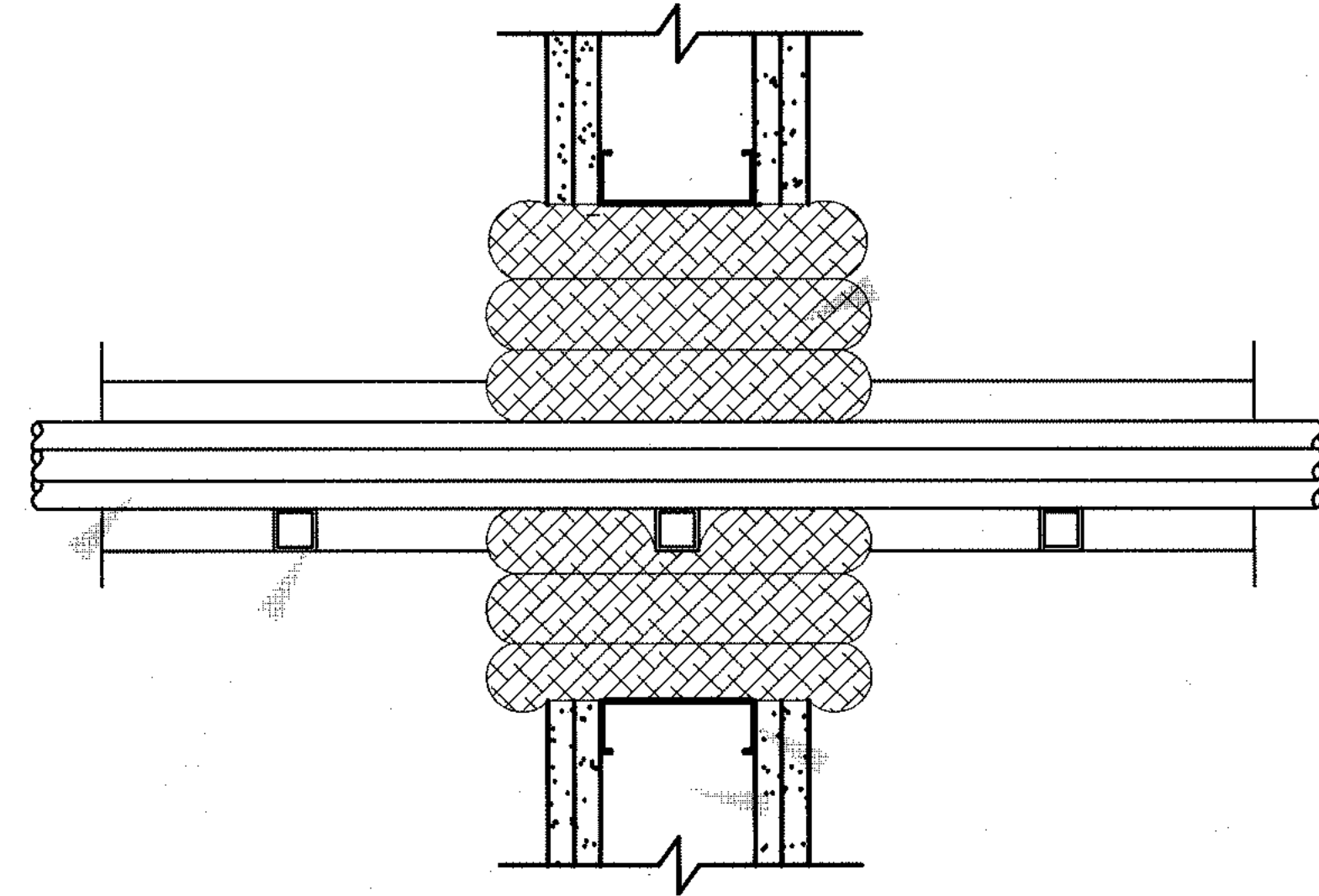
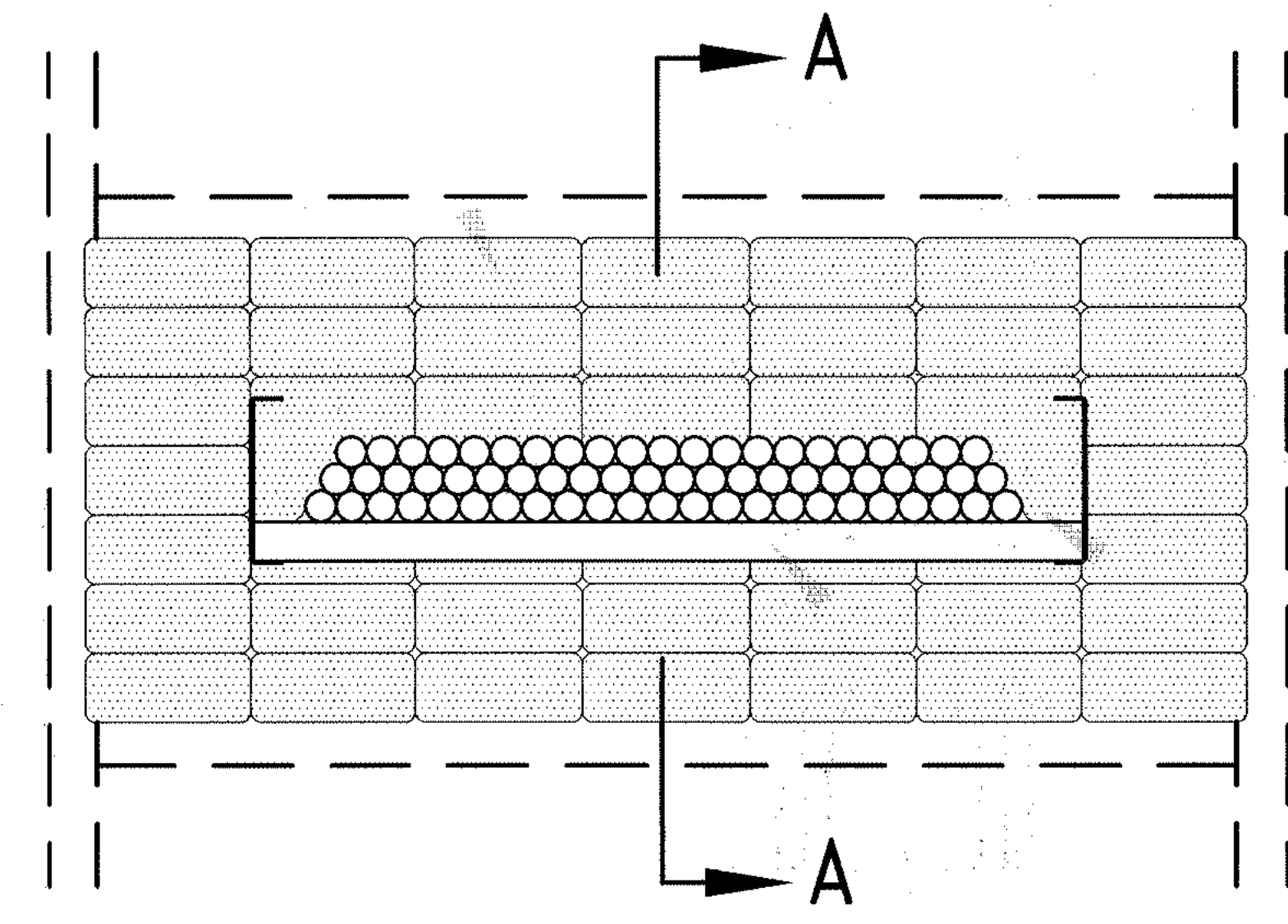
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- ① WALL ASSEMBLY - THE 1 OR 2 HR. FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL USDO OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE AND SPACED MAX. 24 IN. OC. ADDITIONAL FRAMING MEMBERS TO BE INSTALLED IN STUD CAVITY CONTAINING THE THROUGH-PENETRATING ITEM TO FORM A RECTANGULAR BOX AROUND THE PENETRANT.
- B. GYPSUM BOARD* - 5/8 IN. THICK
- ② CABLE TRAY, 4" LOADING DEPTH, 18" OR 12" WIDE, AS APPLICABLE.
- ③ CABLES, MAXIMUM 30% FILL.
- ④A FIRESTOP PILLOWS
- REFER TO U.L. SYSTEM W-L-4008 AND TO MANUFACTURER'S (SPECIFIED TECHNOLOGIES, INC.) INSTRUCTIONS FOR DETAILS.

F Ratings - 1 and 2 Hr (See Item 1B)
T Ratings - 1/2 Hr



Section A-A

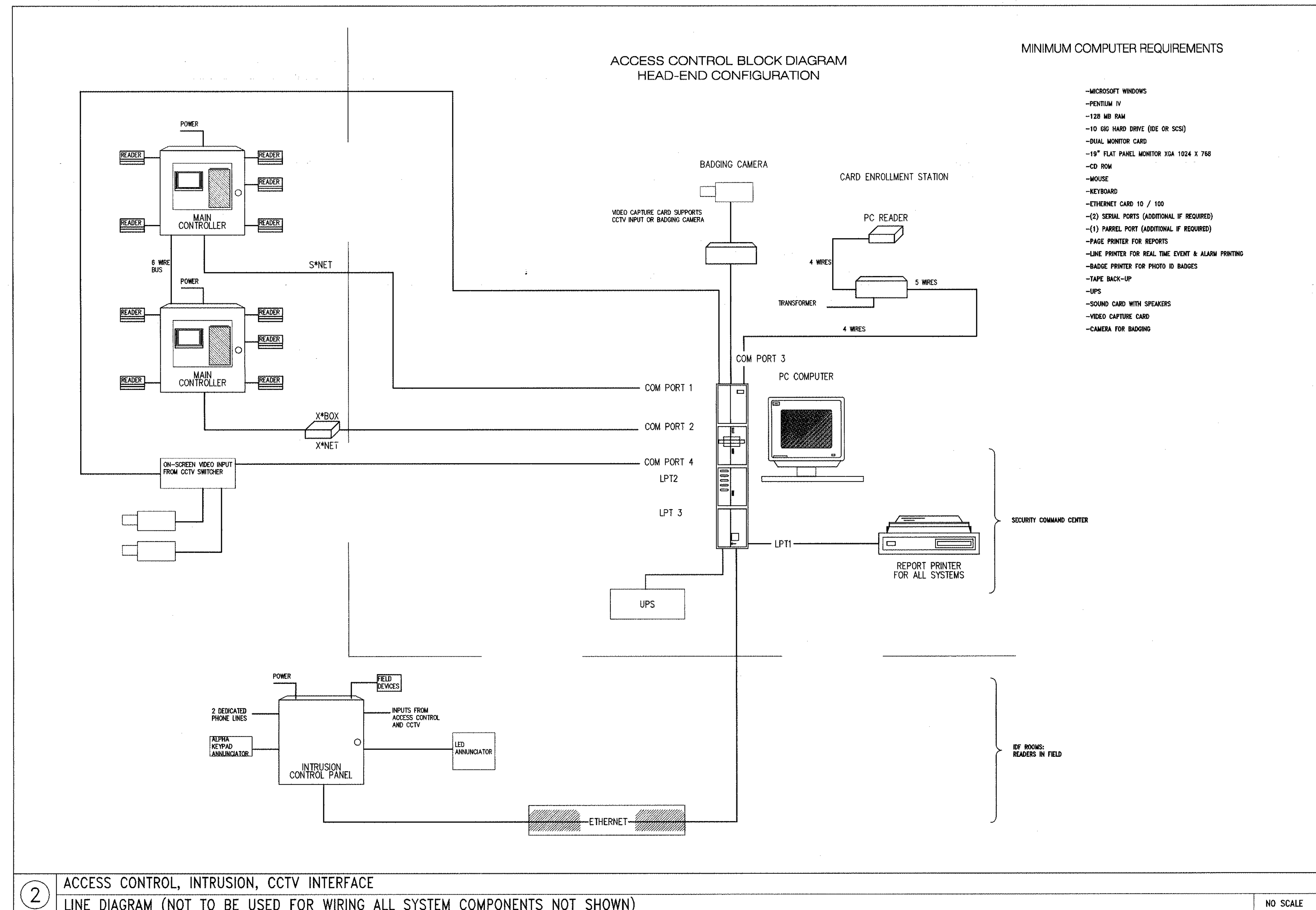
③ THROUGH-PENETRATION FIRESTOP SYSTEMS
SYSTEM NO. W-L-4008

NO SCALE

SHEET NOTES

- A. SEE UL FIRE RESISTANCE DIRECTORY FOR COMPLETE FIRESTOP REQUIREMENTS.
- B. VERIFY EXISTING CONDITIONS TO INSURE FIRESTOP SYSTEM COMPLIANCE.
- C. SEE SPECIFICATION SECTION 07840 FIRESTOPPING FOR ADDITIONAL REQUIREMENTS.

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MINIMUM COMPUTER REQUIREMENTS

- MICROSOFT WINDOWS
- PENTIUM IV
- 128 MB RAM
- 10 GB HARD DRIVE (IDE OR SCSI)
- DUAL MONITOR CARD
- 19" FLAT PANEL MONITOR 3064 X 768
- CD ROM
- MOUSE
- KEYBOARD
- ETHERNET CARD 10 / 100
- (2) SERIAL PORTS (ADDITIONAL IF REQUIRED)
- (1) PARALLEL PORT (ADDITIONAL IF REQUIRED)
- PAGE PRINTER FOR REPORTS
- LINE PRINTER FOR REAL TIME EVENT & ALARM PRINTING
- BADGE PRINTER FOR PHOTO ID BADGES
- TAPE BACK-UP
- UPS
- SOUND CARD WITH SPEAKERS
- VIDEO CAPTURE CARD
- CAMERA FOR BADGING

② ACCESS CONTROL, INTRUSION, CCTV INTERFACE
LINE DIAGRAM (NOT TO BE USED FOR WIRING ALL SYSTEM COMPONENTS NOT SHOWN)

NO SCALE

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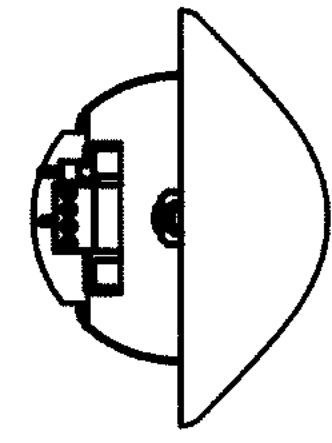
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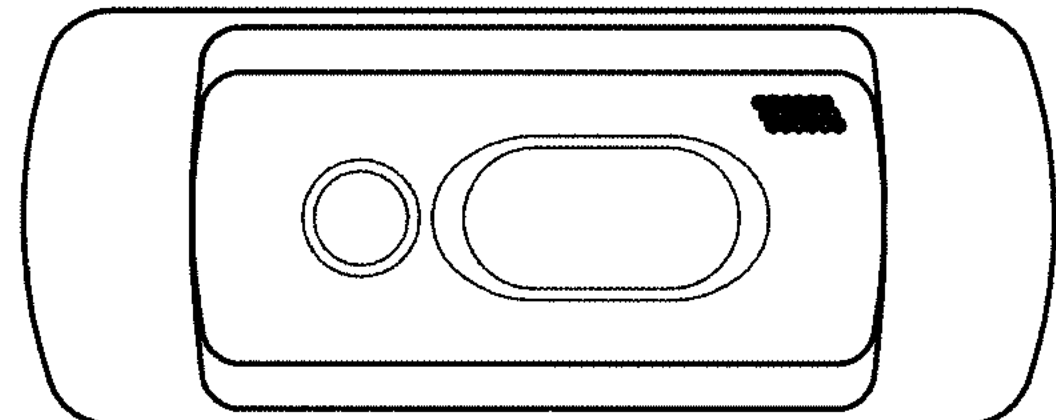
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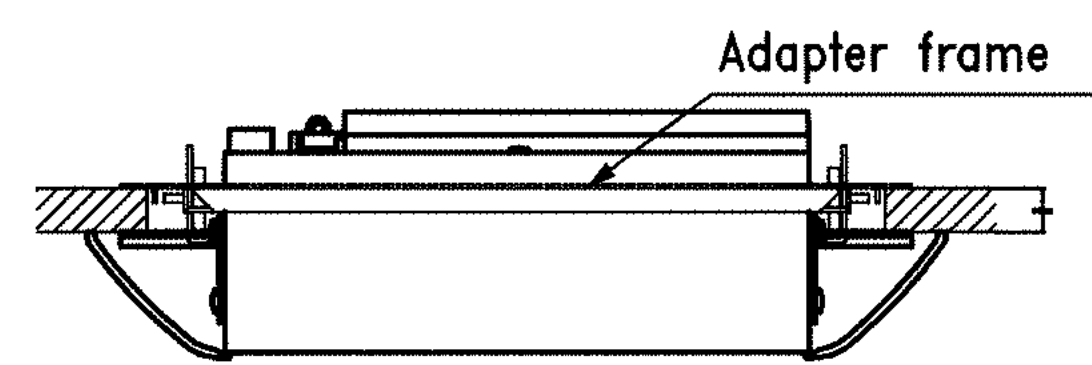
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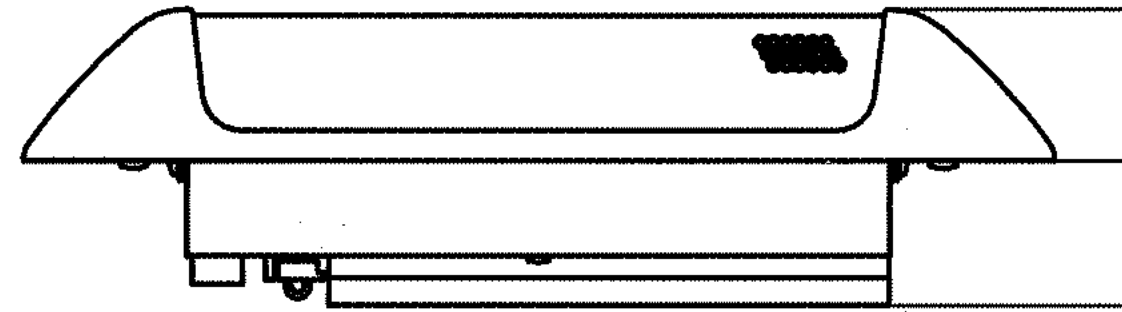
SIDE VIEW



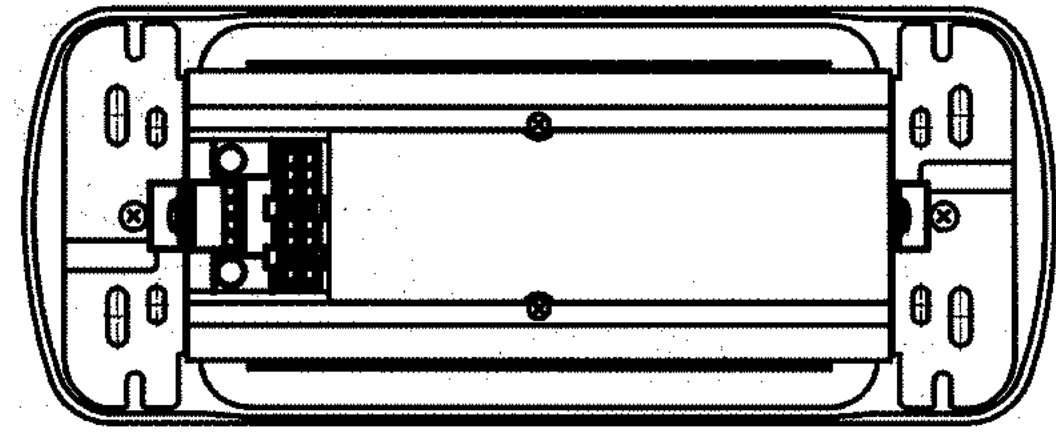
FRONT VIEW



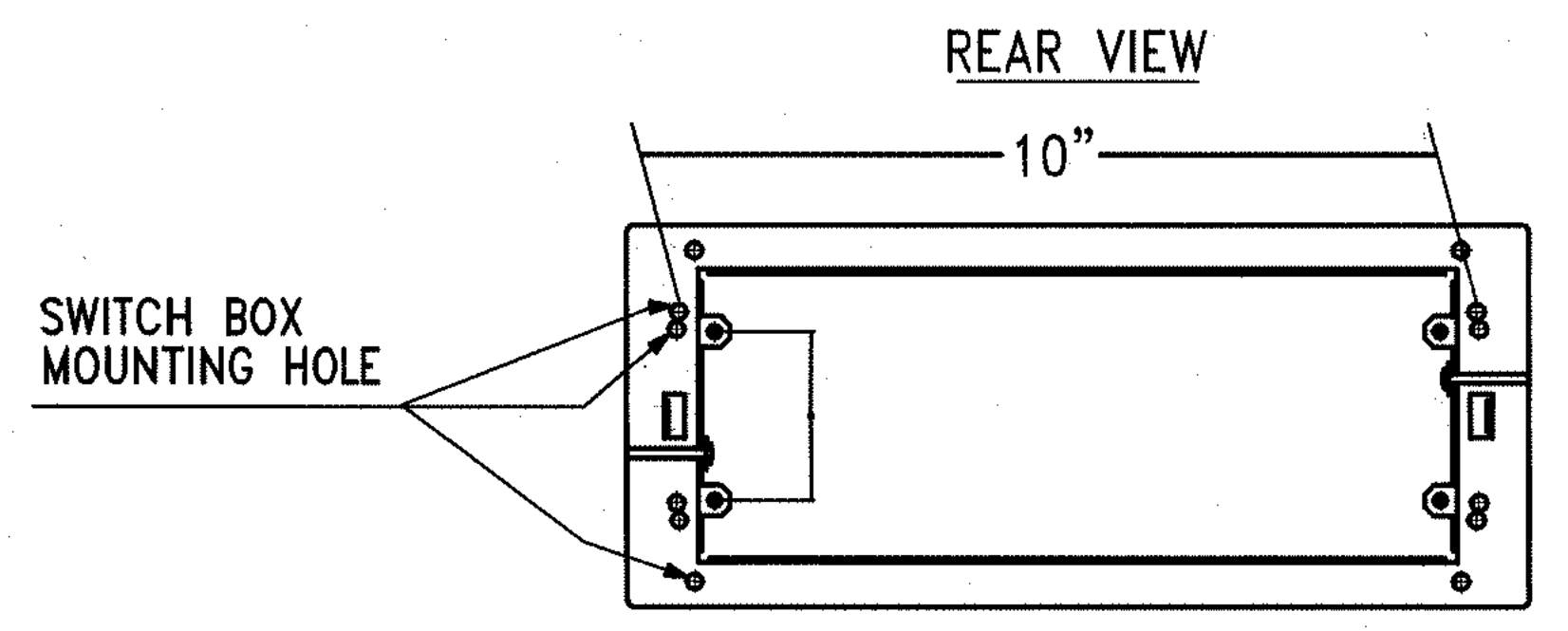
INSTALLATION EXAMPLE 1



SIDE VIEW

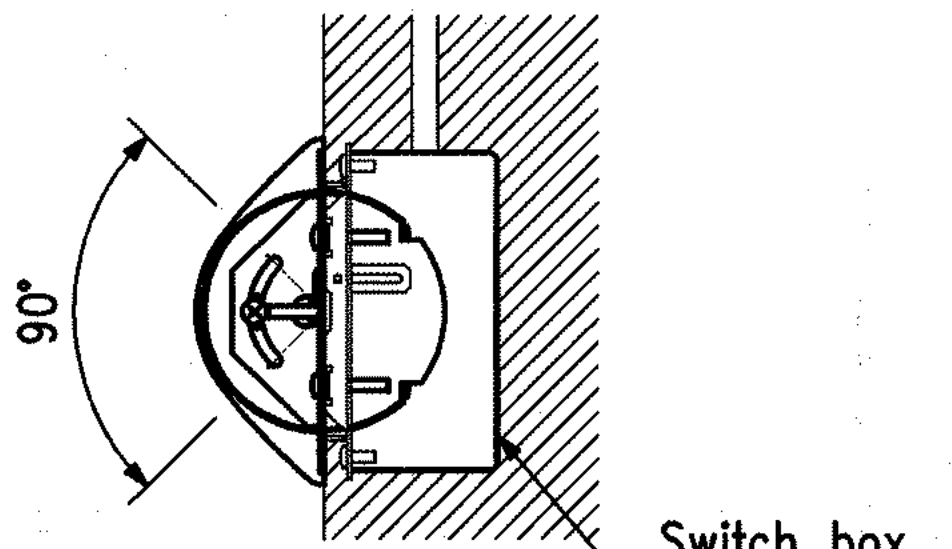


REAR VIEW

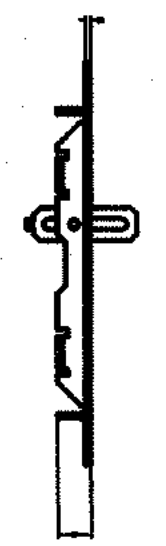


SWITCH BOX MOUNTING HOLE

ADAPTER FRAME



INSTALLATION EXAMPLE 2



Switch box

W (SPK)

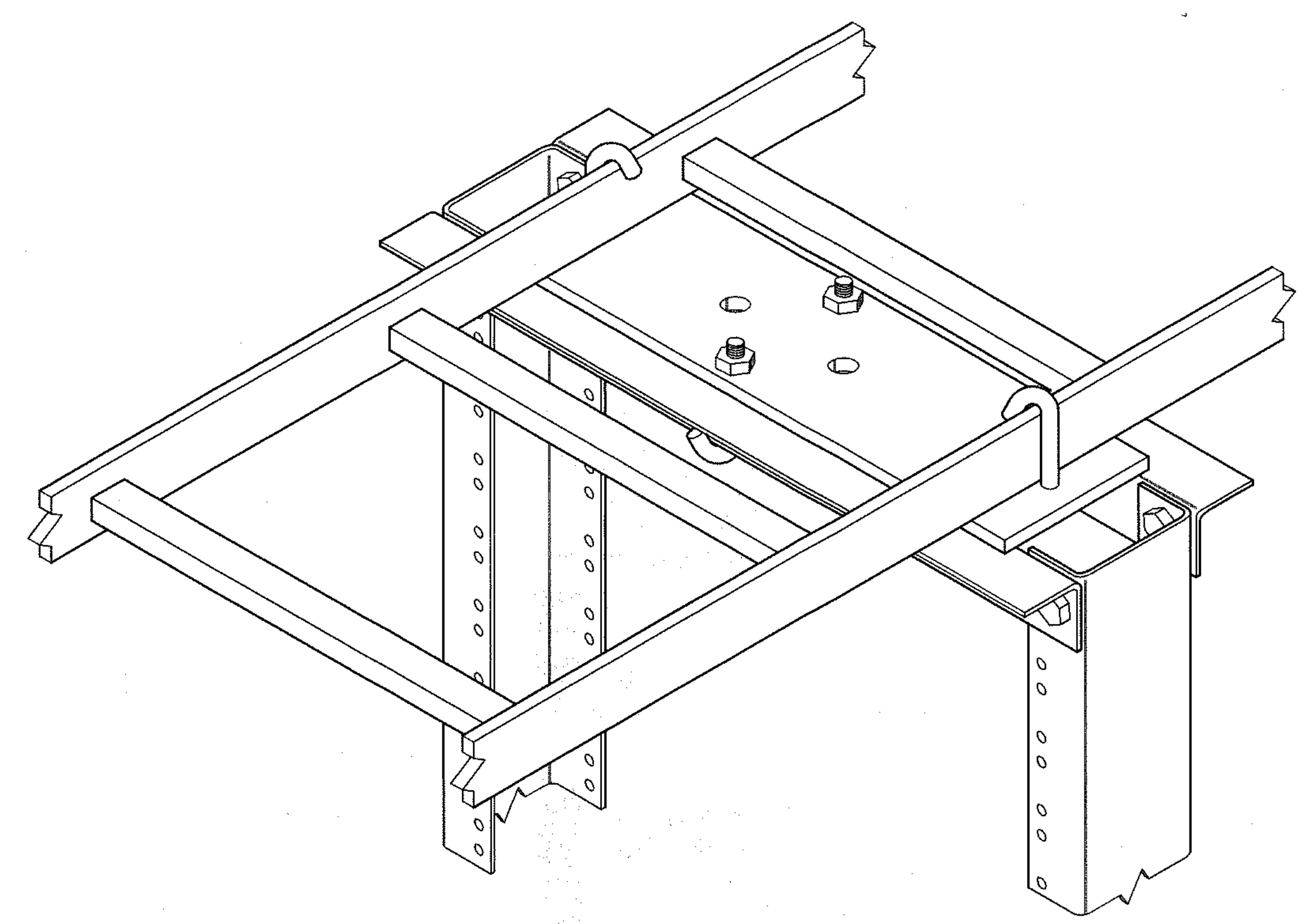
7 WALL MOUNT SPEAKER TOA H-1

NO SCALE

6 RACK ELEVATION 2ND FLOOR TELECOM ROOM

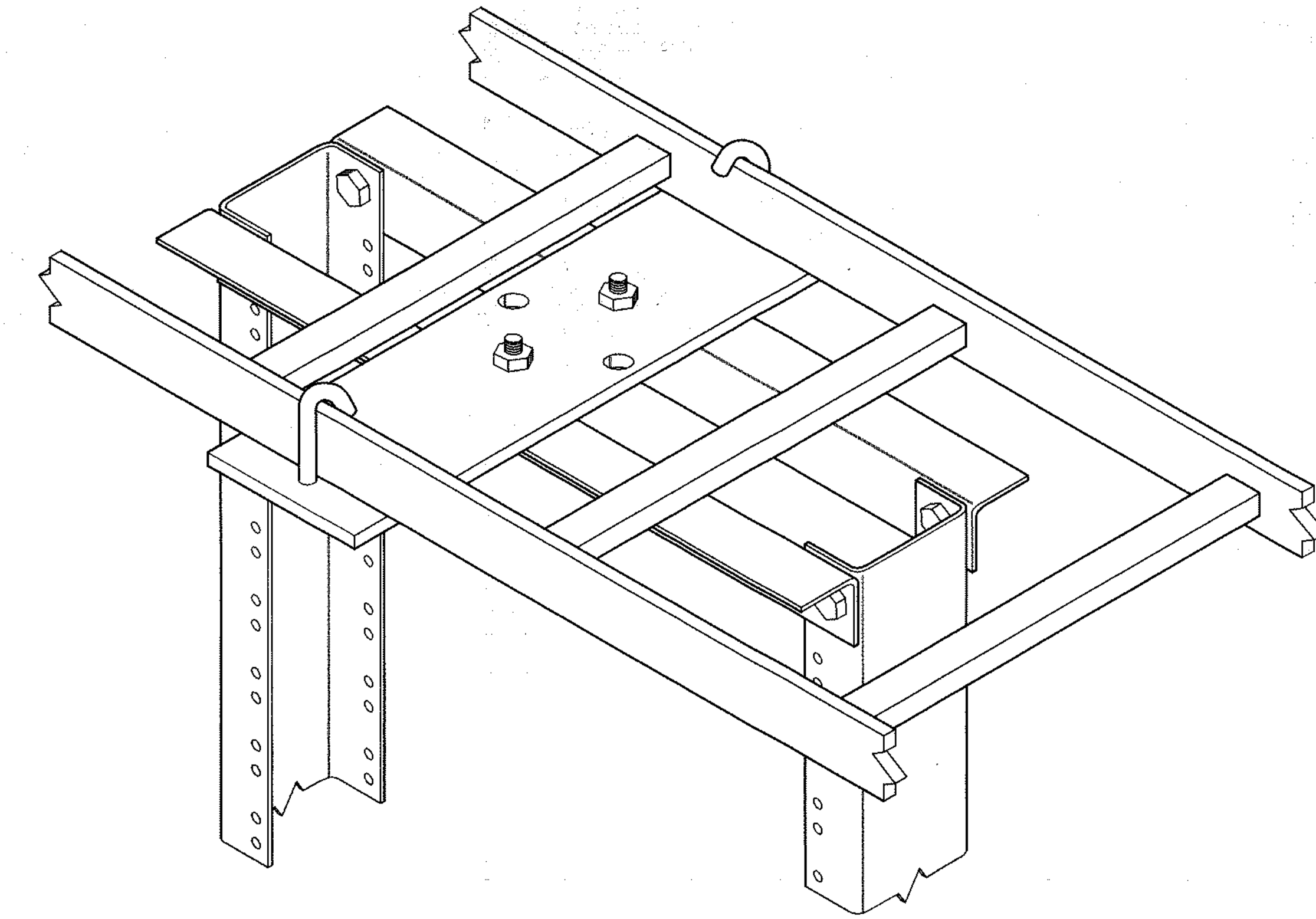
NO SCALE

45	ALS XMIT
44	Room Controller
43	BGM Vol. Controls
42	BGM Music Source
41	
40	
39	
38	
37	
36	
35	Mix4
34	
33	
32	
31	
30	
29	
28	
27	
26	
25	Cage
24	BNC Panel
23	Blank Panel
22	
21	
20	
19	BNC Panel
18	VENT PANEL
17	Mixer/Amp
16	
15	VENT PANEL
14	Mixer/Amp
13	VENT PANEL
12	Mixer/Amp
11	VENT PANEL
10	Mixer/Amp
9	VENT PANEL
8	Mixer/Amp
7	VENT PANEL
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5	VENT PANEL
4	PA100-70
3	VENT PANEL
2	PA100-70
1	VENT PANEL



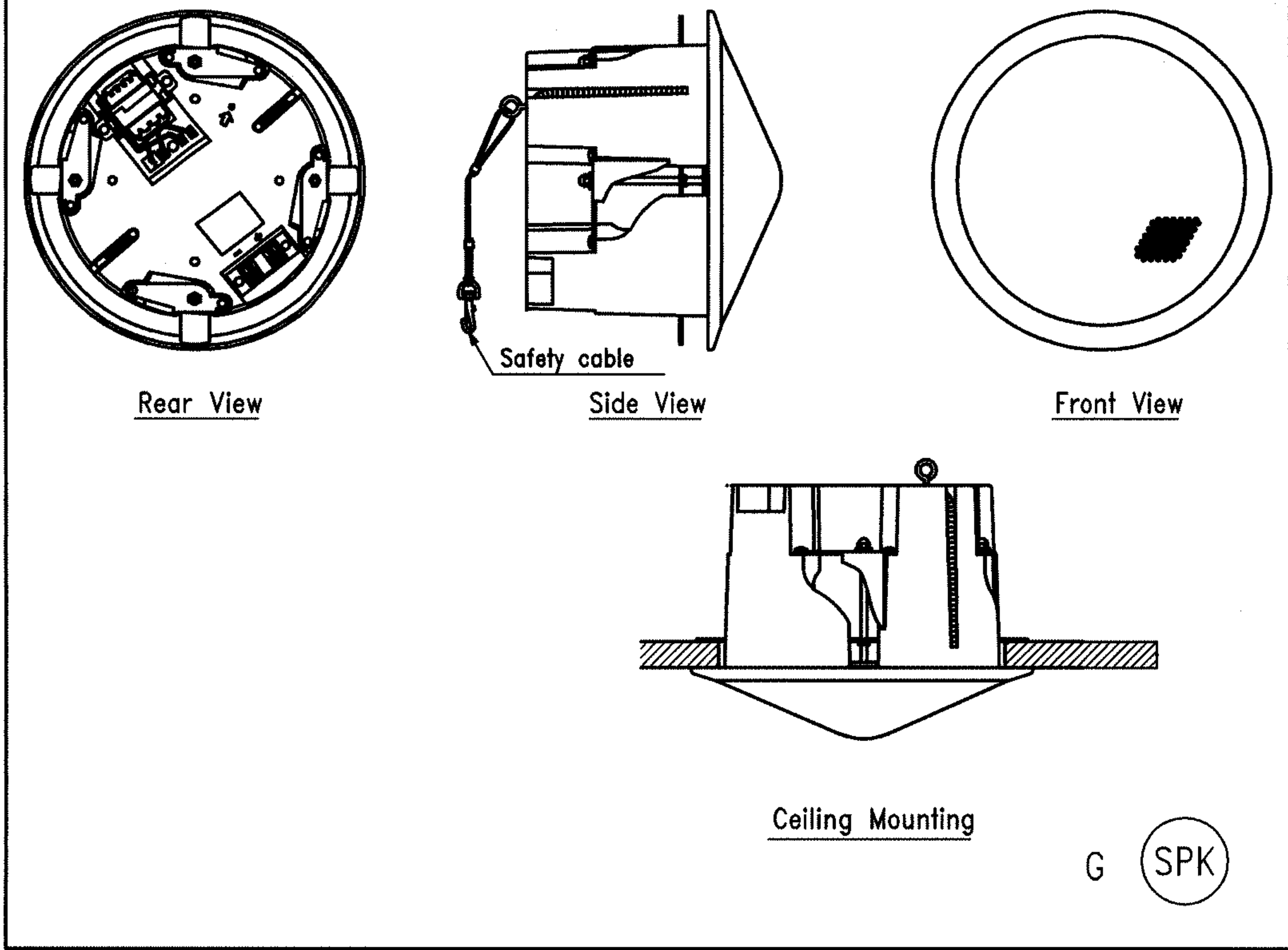
1 EQUIPMENT RACK ATTACHED (IN MPOE/COMPUTER ROOM) TO HORIZONTAL LADDER RACK

NO SCALE



2 EQUIPMENT RACK ATTACHED (IN MPOE/COMPUTER ROOM) TO HORIZONTAL LADDER RACK

NO SCALE



Rear View

Safety cable

Side View

Front View

Ceiling Mounting

G (SPK)

8 CEILING MOUNT SPEAKER TOA F-121

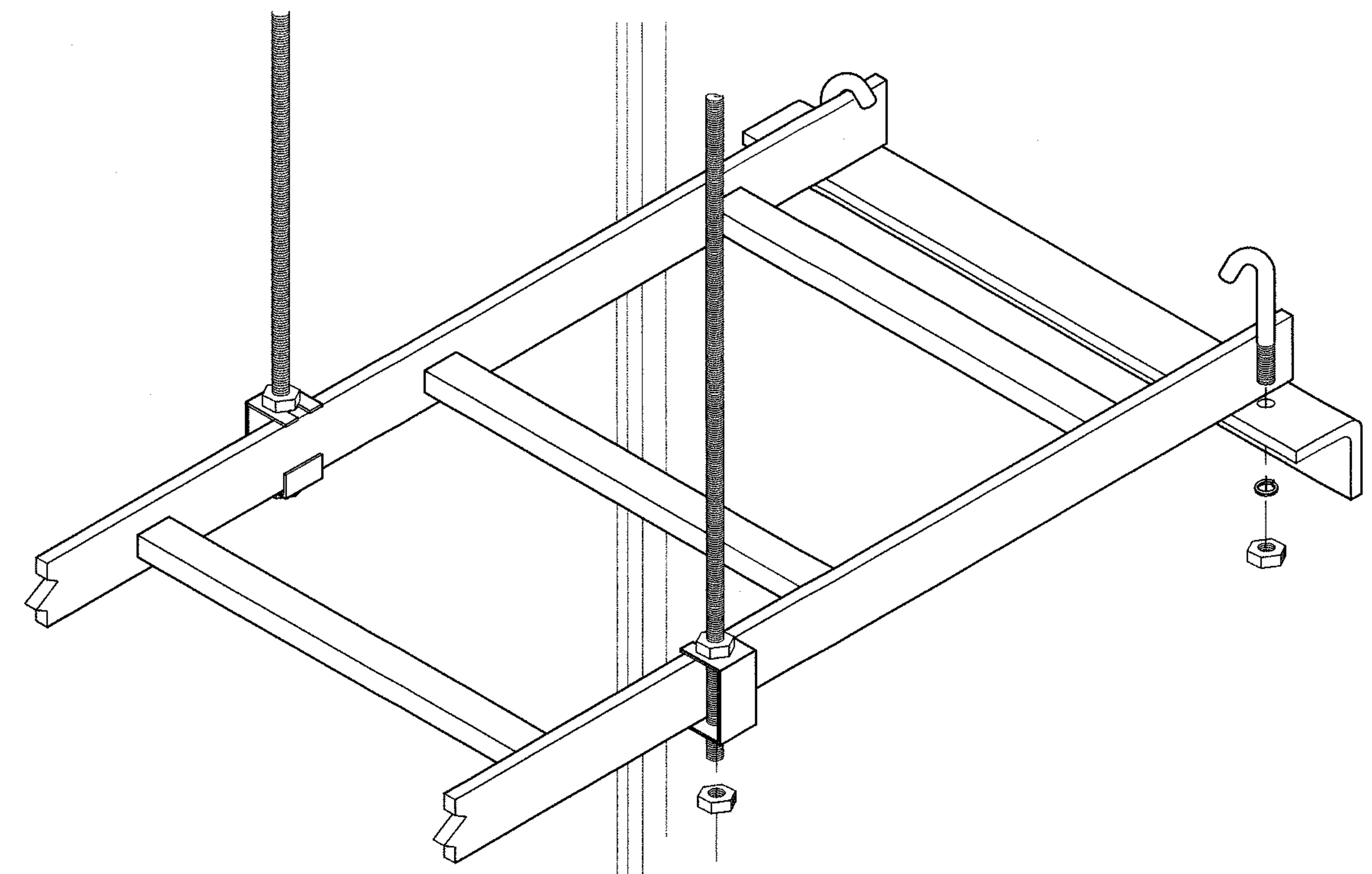
NO SCALE

4 LADDER RACK "T" SPLICE CLAMP DETAIL IN MPOE/COMPUTER ROOM

NO SCALE

5 LADDER RACK SPLICE CLAMP DETAIL IN MPOE/COMPUTER ROOM

NO SCALE



3 SLOTTED HANGER (IN MPOE/COMPUTER ROOM)

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10 'J' HOOK ANCHOR TO WALL

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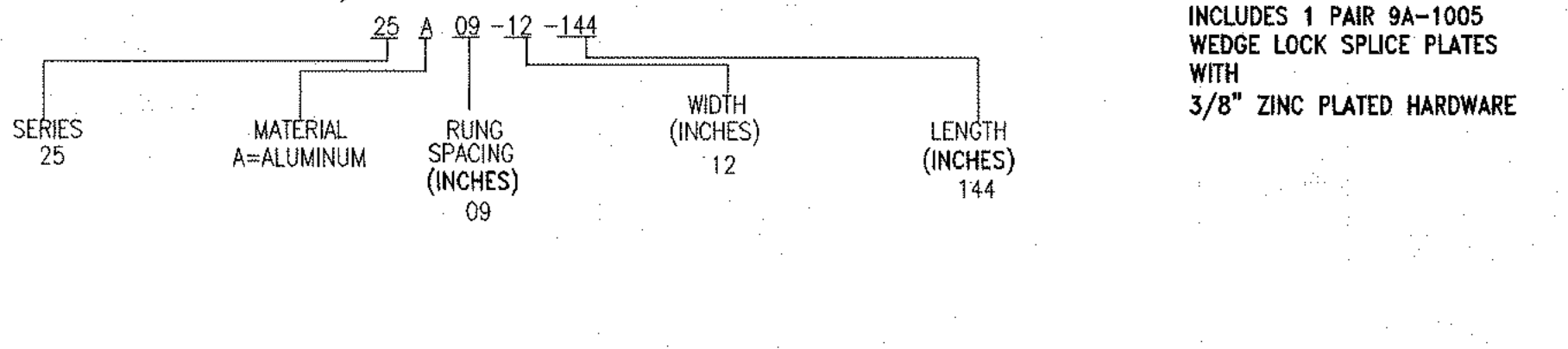
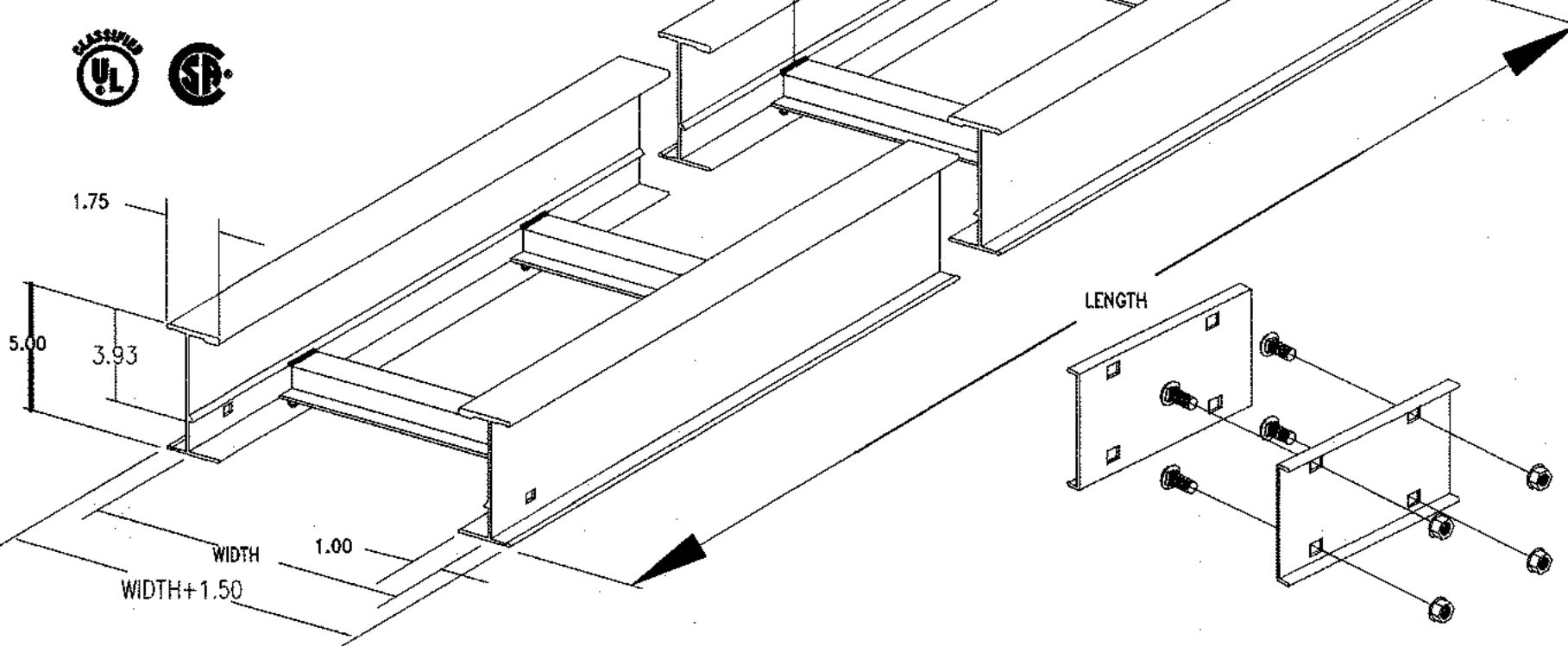
TELECOM/SECURITY DETAILS

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 drawn by LL project number 01.03720.00
 sheet number

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25A

ALUMINUM LADDER TYPE CABLE TRAY
 5" NOMINAL OUTSIDE DEPTH
 4" NEMA LOADING DEPTH
 ALUMINUM ALLOY 6063-T6,
 CONSTRUCTED AND LOAD TESTED PER NEMA VE1/CSA C22.2 NO. 126
 NEMA CLASS: 1B, 12C
 CSA CLASS: D1-6M
 UL CROSS SECTIONAL AREA: 1.00 SQ. IN.
 CLASSIFIED BY UNDERWRITERS LABORATORIES, INC.
 AS TO ITS SUITABILITY AS AN EQUIPMENT
 GROUNDING CONDUCTOR ONLY. 558E



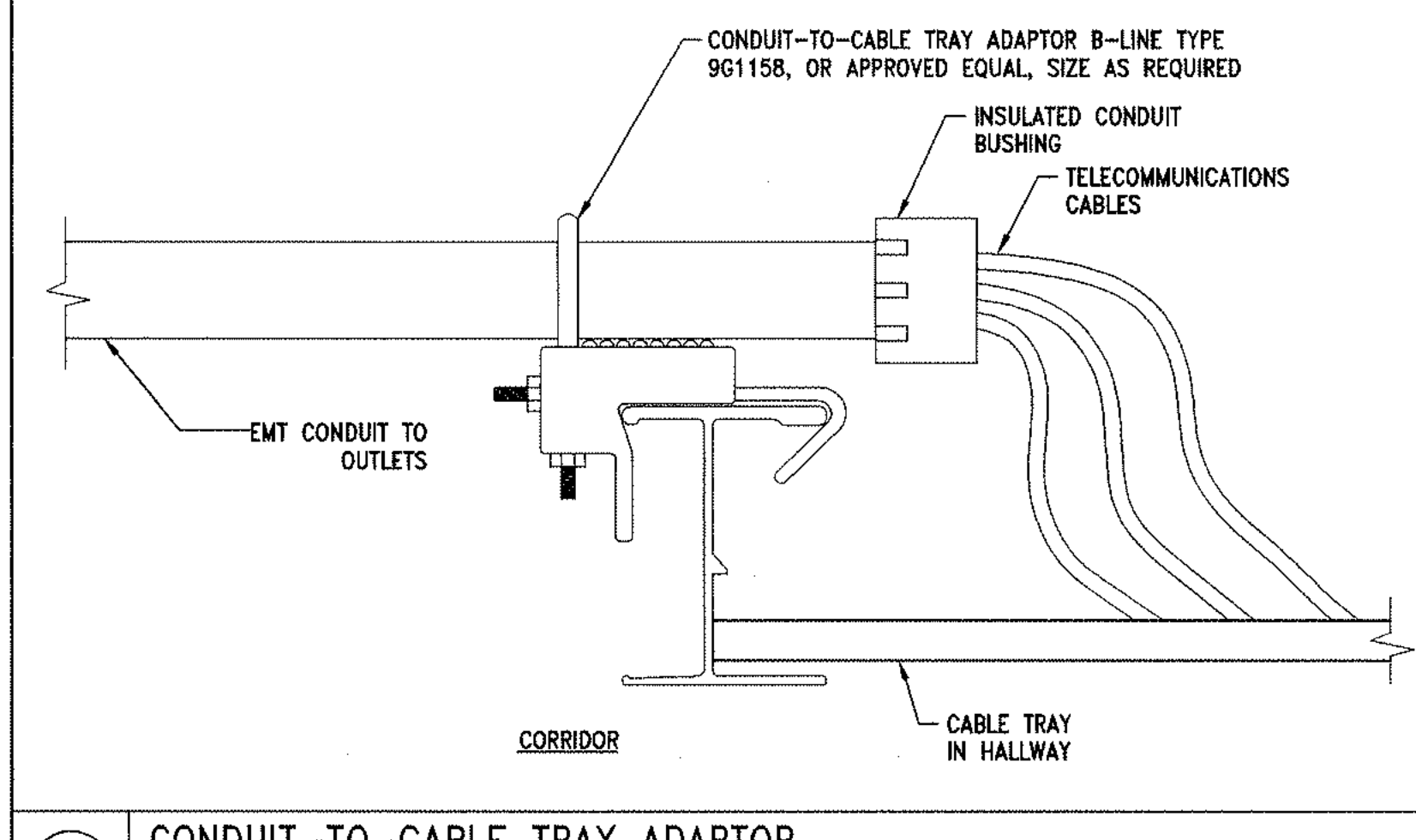
SERIES	MATERIAL	RUNG SPACING (INCHES)	WIDTH (INCHES)	LENGTH (INCHES)
25	ALUMINUM	09	12	144

B-LINE SERIES	SAFETY FACTOR	SPAN (FT.)	LOAD (LBS./FT.)	DEFLECTION (IN.)
25	1.5	12	139	1.390
				DEFLECTION MULTIPLIER .010

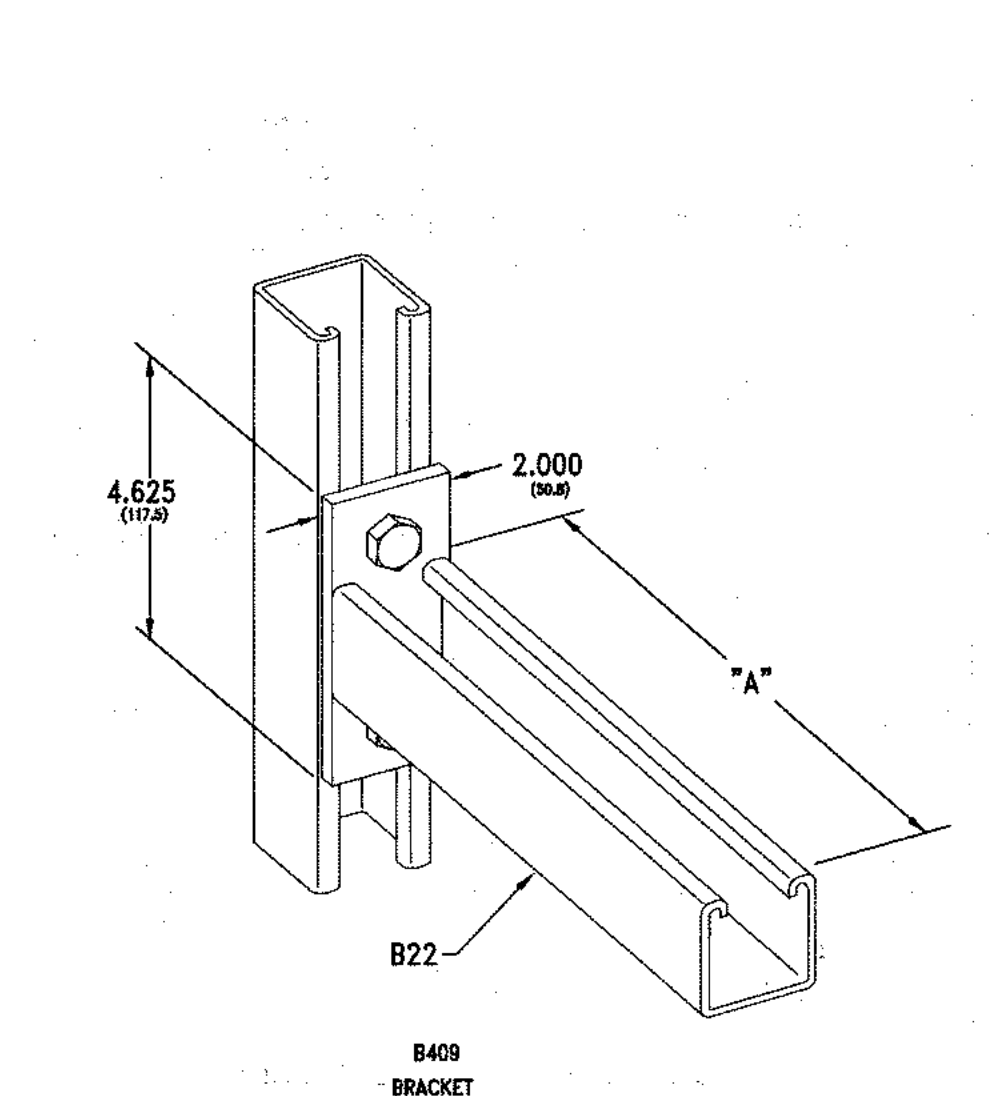
*TO DETERMINE DEFLECTION (INCHES) AT ANY LESSER LOAD, MULTIPLY THE ACTUAL LOAD (LBS./FT.) BY THE DEFLECTION MULTIPLIER.

SAFETY FACTOR	RUNG STRENGTH (TESTED TO NEMA VE-1, SECTION 5.4)	TRAY WIDTH (IN.)
1.5	UNIFORM 1166 CONCENTRATED 583	12

CABLE TRAY NO SCALE

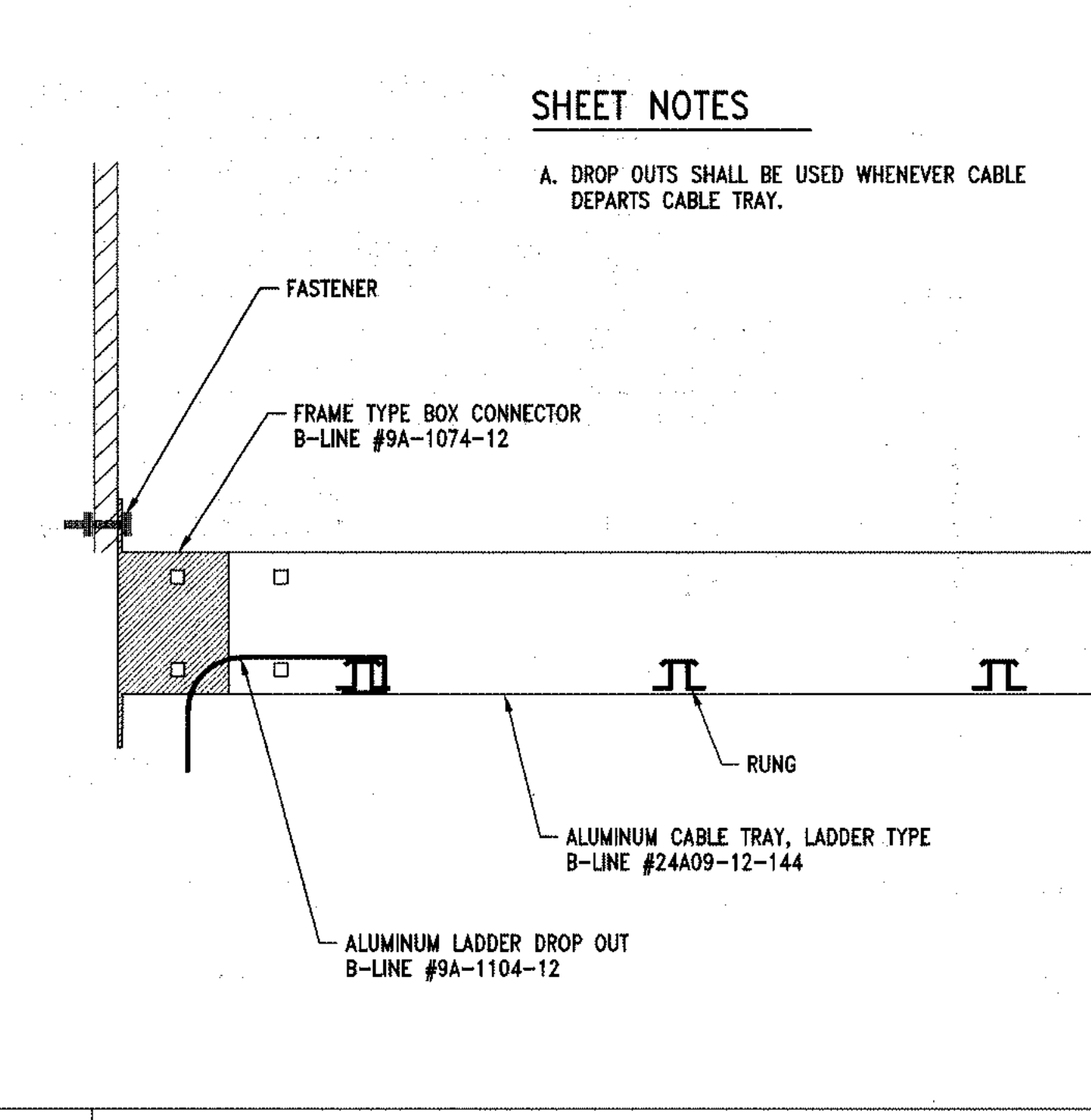


CONDUIT-TO-CABLE TRAY ADAPTOR NO SCALE

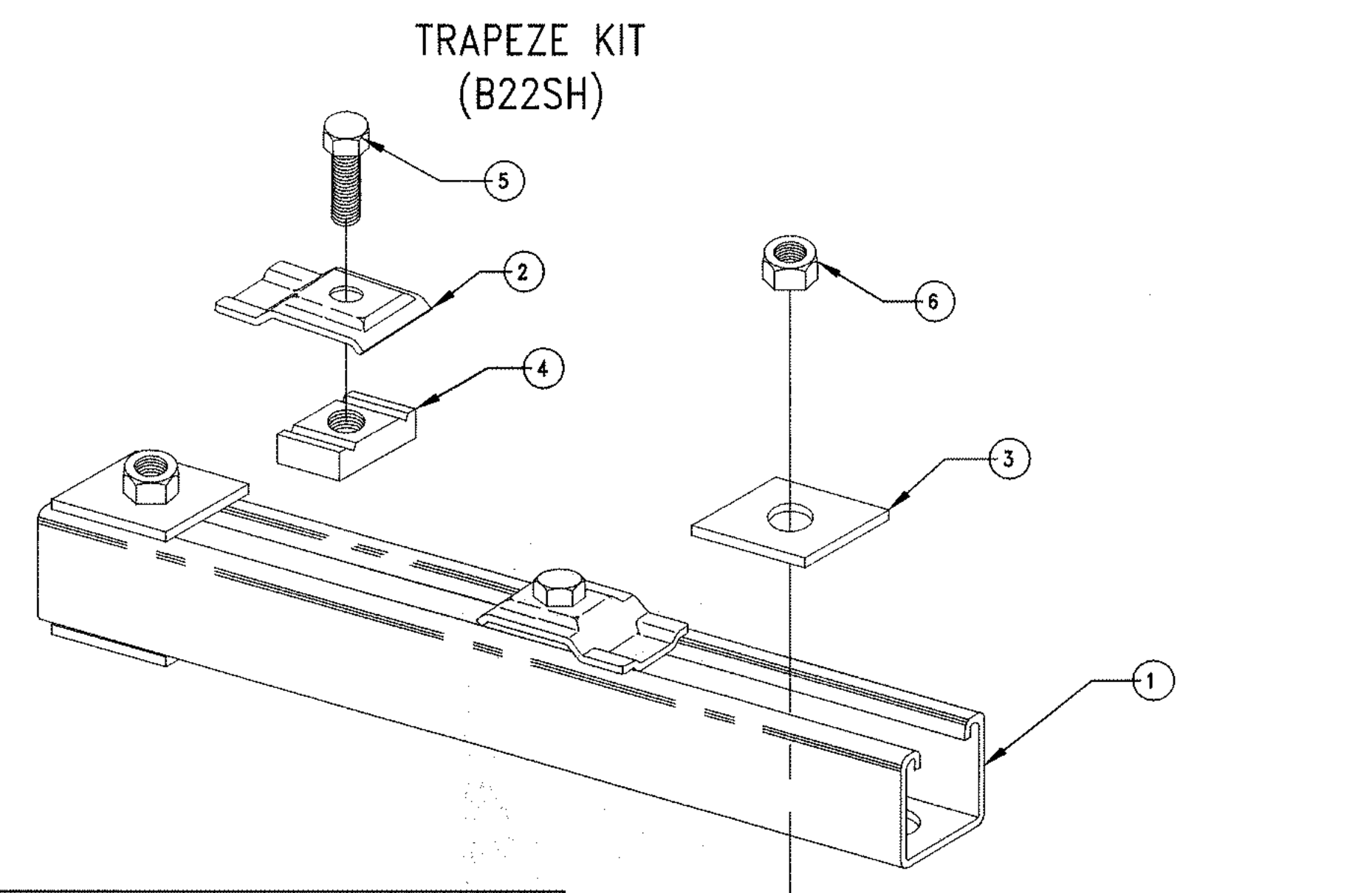


PART NO.	"A"	UNIFORM LOAD (LBS.)	UNIFORM LOAD (KG)	WT./C. (LBS.)	WT./C. (KG)
B409-6	6"	(152.4)	1920	8.54	149 (67.6)
B409-9	9"	(228.6)	1280	5.69	195 (88.4)
B409-12	12"	(304.8)	960	4.27	241 (109.3)
B409-14	14"	(355.6)	800	3.56	274 (124.3)
B409-18	18"	(457.2)	640	2.84	333 (181.1)
B409-24	24"	(609.6)	480	2.13	425 (192.8)

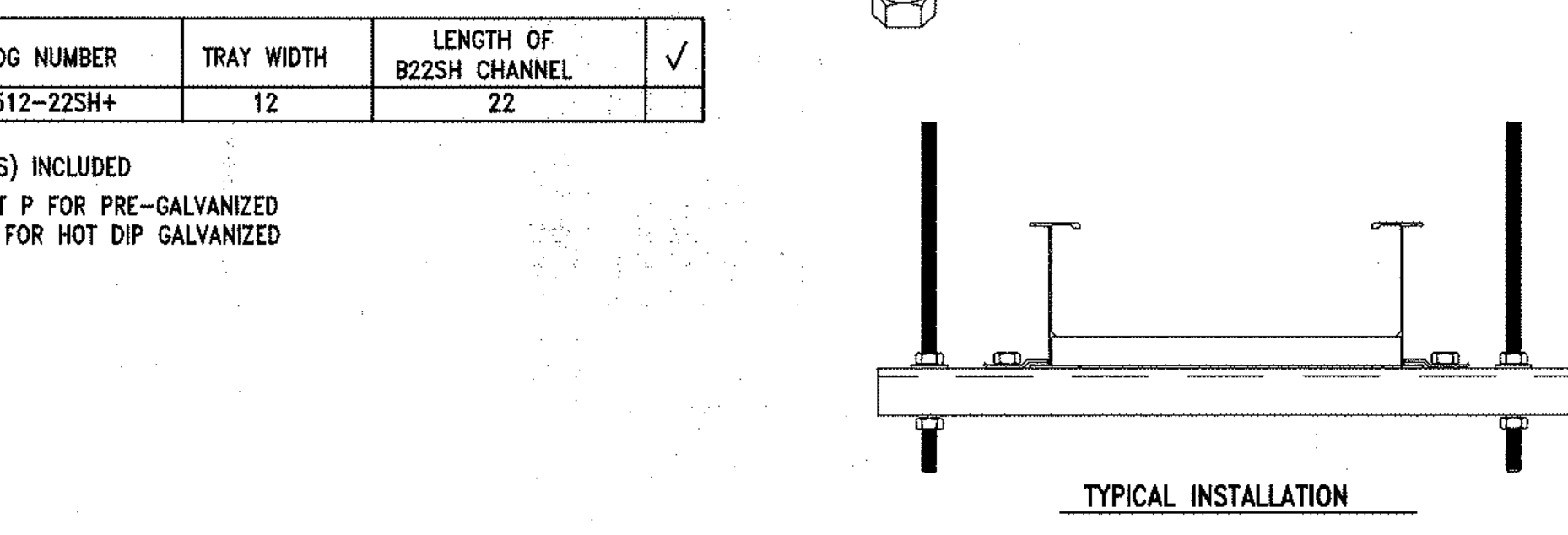
BRACKET B409 NO SCALE



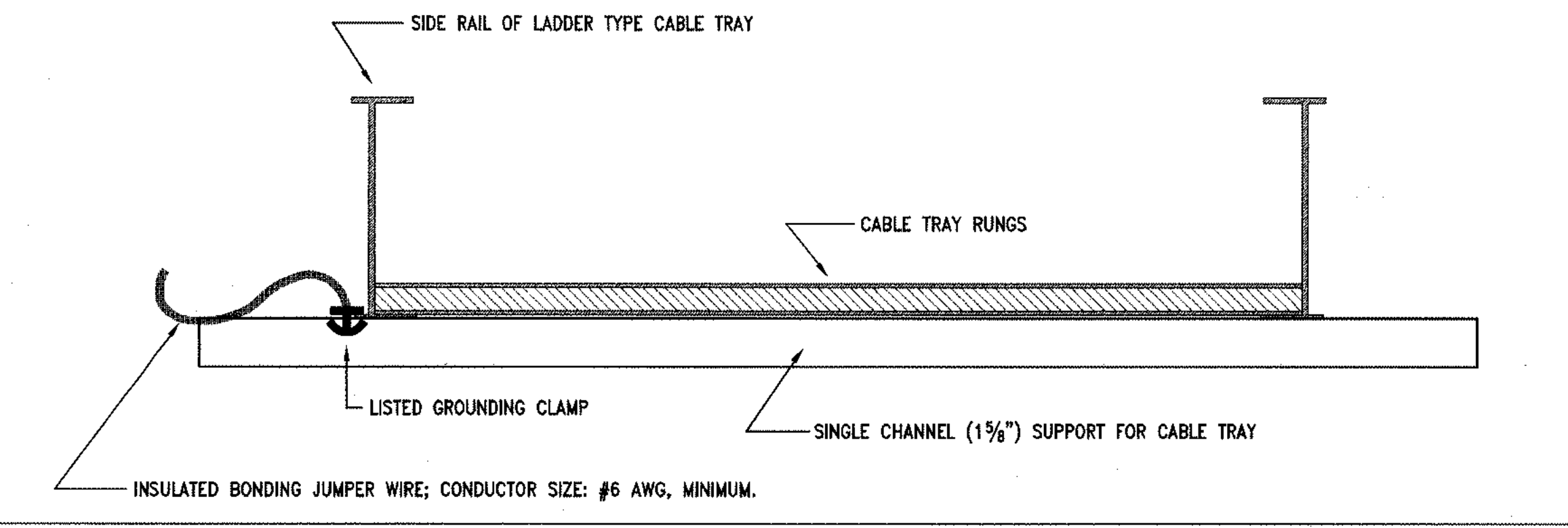
DROP OUT ON CABLE TRAY NO SCALE



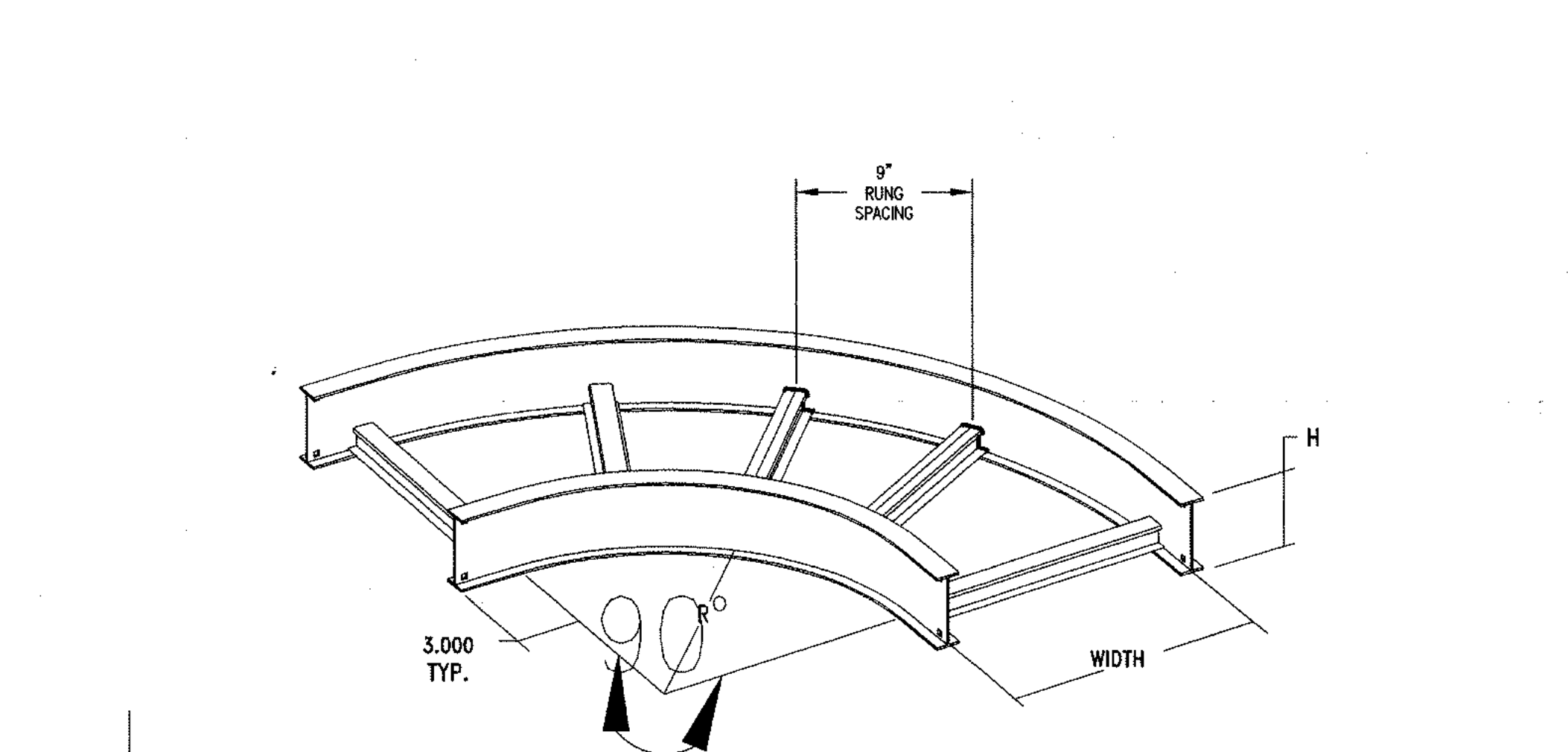
ITEM	QTY	DESCRIPTION
1	1 PC.	CHANNEL
2	1 PR.	HOLD DOWN/GUIDE CLAMP
3	4 PC.	SQUARE WASHER
4	2 PC.	CHANNEL NUT
5	2 PC.	1/2 X 7/8 HEX HEAD CAP SCREWS
6	4 PC.	1/2 HEX NUT



TRAPEZE KIT (B22SH) NO SCALE



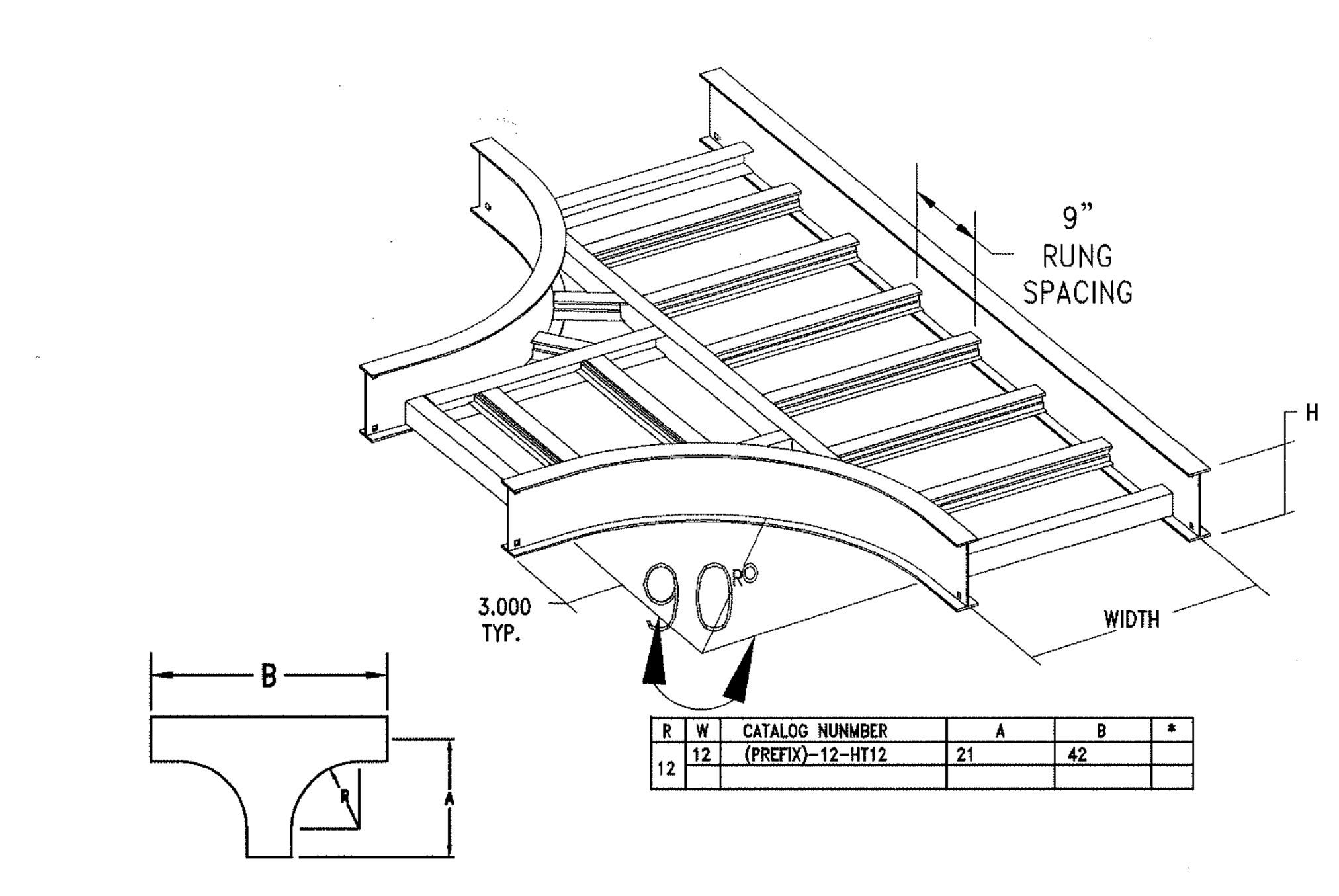
CABLE TRAY CROSS SECTION NO SCALE



R	W	CATALOG NUMBER	A	B	C	*
6	**	06-90HB12	18	18	18	
9	**	09-90HB12	19 1/2	19 1/2	19 1/2	
12	**	12-90HB12	21	21	21	
18	**	18-90HB12	24	24	24	
24	**	24-90HB12	27	27	27	
30	**	30-90HB12	30	30	30	
36	**	36-90HB12	33	33	33	
42	**	42-90HB12	36	36	36	
6	**	06-90HB24	30	30	30	
9	**	09-90HB24	31 1/2	31 1/2	31 1/2	
12	**	12-90HB24	33	33	33	
18	**	18-90HB24	36	36	36	
24	**	24-90HB24	39	39	39	
30	**	30-90HB24	42	42	42	
36	**	36-90HB24	45	45	45	
42	**	42-90HB24	48	48	48	

R	W	CATALOG NUMBER	A	B	C	*
6	**	06-90HB36	47	47	47	
9	**	09-90HB36	43 1/2	43 1/2	43 1/2	
12	**	12-90HB36	45	45	45	
18	**	18-90HB36	48	48	48	
24	**	24-90HB36	51	51	51	
30	**	30-90HB36	54	54	54	
36	**	36-90HB36	57	57	57	
42	**	42-90HB36	60	60	60	
6	**	06-90HB48	54	54	54	
9	**	09-90HB48	55 1/2	55 1/2	55 1/2	
12	**	12-90HB48	57	57	57	
18	**	18-90HB48	60	60	60	
24	**	24-90HB48	63	63	63	
30	**	30-90HB48	66	66	66	
36	**	36-90HB48	69	69	69	
42	**	42-90HB48	72	72	72	

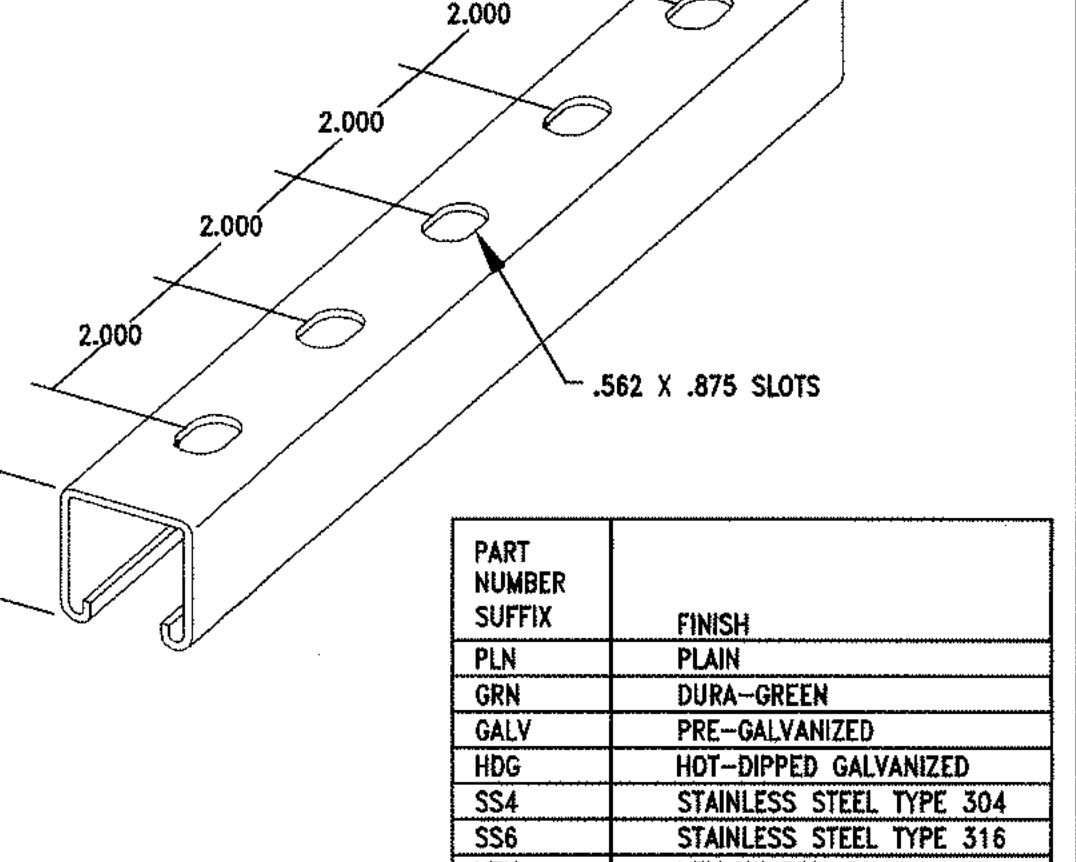
ALUMINUM HORIZONTAL BEND NO SCALE



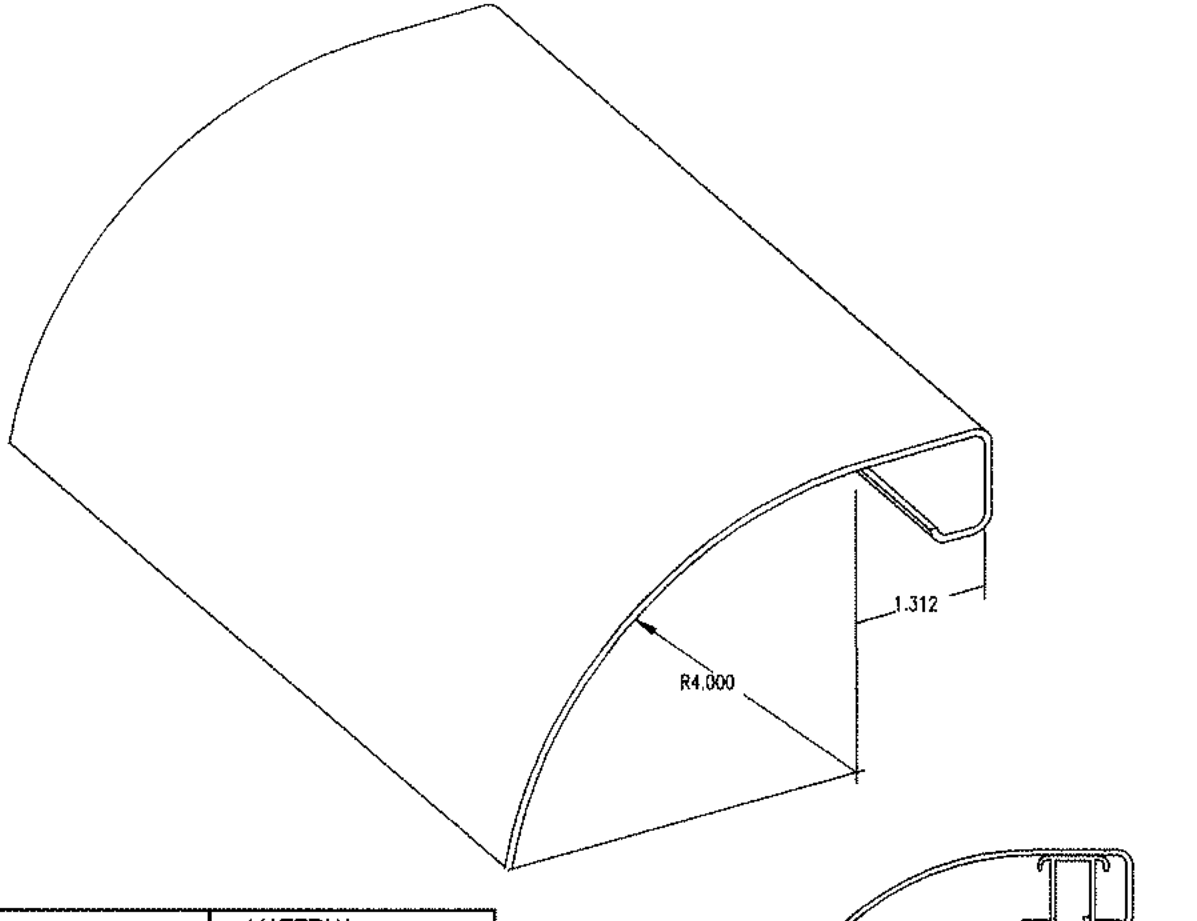
R	W	CATALOG NUMBER	A	B	*
6	**	06-90HT12	21	42	

ALUMINUM HORIZONTAL TEE LADDER TYPE NO SCALE

PART NUMBER	THK.	H	WEIGHT
B11SH	12 GA.	3.250	2.97
B12SH	12 GA.	2.438	2.39
B22SH	12 GA.	1.625	1.82
B24SH	14 GA.	1.625	1.34
B26SH	16 GA.	1.625	1.07
B28SH	12 GA.	1.375	1.82
B32SH	12 GA.	1.000	1.38
B36SH	12 GA.	.812	1.19
B42SH	14 GA.	.812	.91
B52SH	16 GA.	.812	.80



CHANNEL W/SLOTS .562 X .875 NO SCALE



LADDER DROP OUT NO SCALE

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 Cupertino, CA 95014
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 408 777 3333 F

Sandis Humber Jones
 590 Merlo Drive, Suite 1
 Redlin, CA 95765
 916 435 2400 T
 916 435 2410 F

Hargroves Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

Forell/Essesser Engineers, Inc.
 100 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

Flack + Kurtz
 405 Howard Street
 Suite 500
 San Francisco, CA 94102-2673
 415 398 3833 T
 415 433 5311 F

Architectural Lighting Design
 370 Mission Street
 San Francisco, CA 94107
 415 495 4085 T
 415 495 4660 F

11-29-04 Updated Contract Documents

BID SET

TELECOM/SECURITY DETAILS

DATE: NONE
 DRAWN BY: LL
 PROJECT NUMBER: 2003.04.18
 SHEET NUMBER: 01.03770.00

T5.15

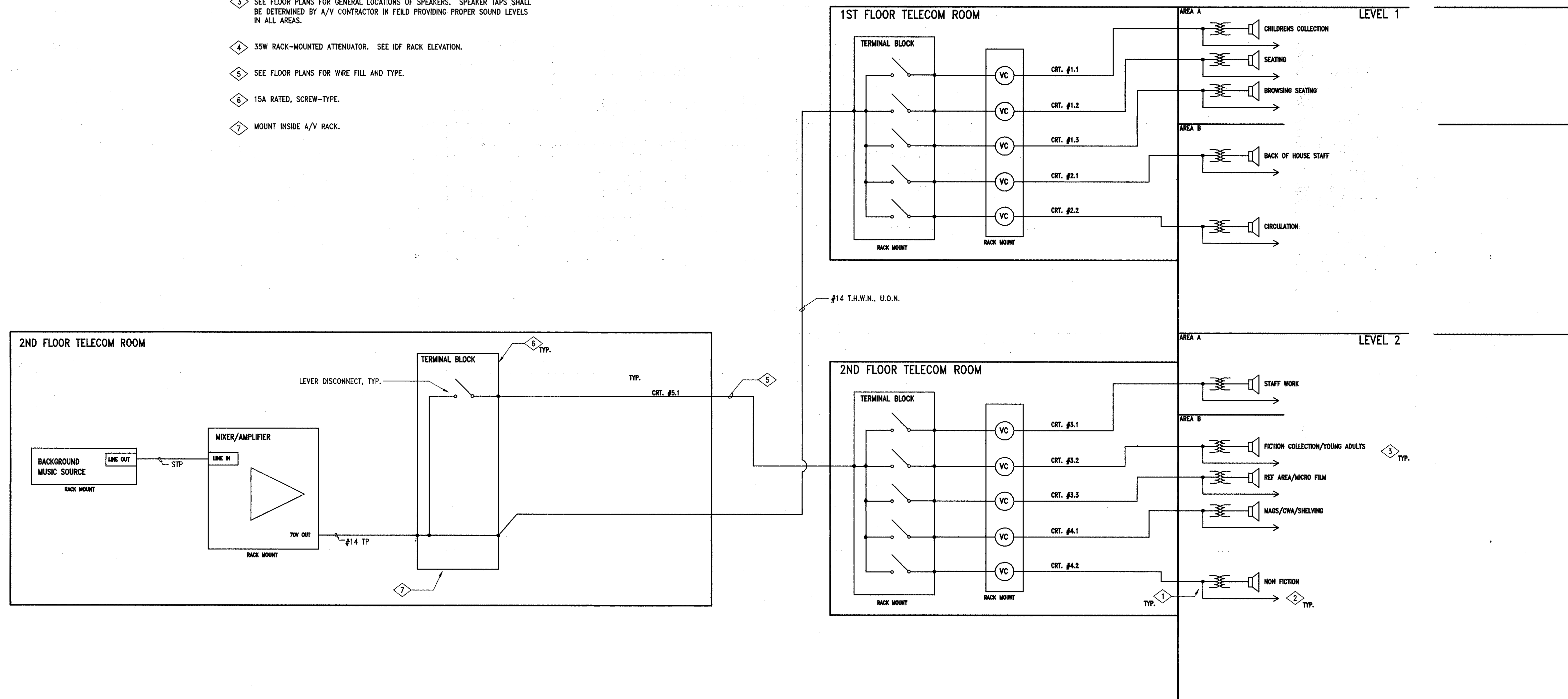
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SHEET NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF SPEAKERS AND CONTROLS WITH ARCHITECT.
- B. PROVIDE CONDUIT AND WIRE FOR CIRCUITING AND SWITCHING SHOWN.
- C. ALL CABLING IN INACCESSIBLE AREAS SHALL BE IN CONDUIT SEE ELECTRICAL DRAINGS AND SPECS FOR DETAILS.
- D. ALL WORK SHOWN IS WORK OF DIVISION 17400, U.O.N.

NUMBERED NOTES

- 1 PARALLEL CONNECTION.
- 2 TO OTHER SPEAKER(S). SEE FLOOR PLANS.
- 3 SEE FLOOR PLANS FOR GENERAL LOCATIONS OF SPEAKERS. SPEAKER TAPS SHALL BE DETERMINED BY A/V CONTRACTOR IN FIELD PROVIDING PROPER SOUND LEVELS IN ALL AREAS.
- 4 35W RACK-MOUNTED ATTENUATOR. SEE IDF RACK ELEVATION.
- 5 SEE FLOOR PLANS FOR WIRE FILL AND TYPE.
- 6 15A RATED, SCREW-TYPE.
- 7 MOUNT INSIDE A/V RACK.



859 Market Street, 3rd Floor, San Francisco, CA 94103
 415 546 0400 T
 415 882 7087 F
 www.swmm.com

SWMM
 architecture
 interiors
 planning
 graphic design

City of
 Cupertino
 10800 Torre Avenue
 Cupertino, CA 95014
 408 777 3354 T
 408 777 3333 F

Sandis Humber Jones
 550 Metro Drive, Suite 1
 Reddie, CA 95705
 916 435 2400 T
 916 435 2410 F

Hargreaves
 Associates
 2020 17th Street
 San Francisco, CA 94103
 415 865 1811 T
 415 865 1810 F

Forell/Blessner
 Engineers, Inc.
 160 Pine Street
 San Francisco, CA 94111
 415 837 0700 T
 415 837 0800 F

Flack + Kurtz
 405 Howard Street
 Suite 500
 San Francisco, CA 94105-2673
 415 398 3833 T
 415 433 5311 F

Architectural
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 San Francisco, CA 94107
 415 495 4085 T
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11-29-04 Updated Contract Documents

Stamp

Issue

BID SET

Sheet 056

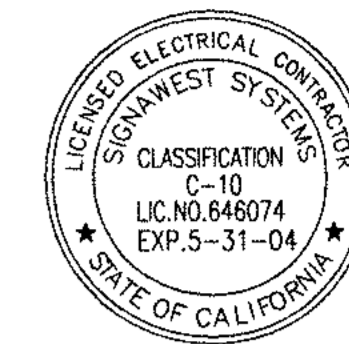
PA-BACKGROUND
 MUSIC FUNCTIONAL
 BLOCK DIAGRAM

scale NONE date 2003.04.18
 drawn by LL project number 01.03770.00
 sheet number

T5.16

SW
SIGNAWEST SYSTEMS
 7300 CENTRAL AVE. SUITE D
 NEWARK, CA 94560-4205
 PH: 510/795-9999
 FAX: 510/795-9544

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Electrical Contractor :

ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals :

Revision :

Project Title :

CUPERTINO CIVIC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :

ACCESS CONTROL SYSTEM

TITLE SHEET

SWS No. : 2003-898
 File No. : 898-1.01
 Scale : N.T.S.
 Drawn by : RB
 Checked by : LEO
 Date : 11-13-2003

Sheet Number :

AC1.01

GENERAL NOTES

- ALL CONDUIT SHALL HAVE PULL STRING INSTALLED.
- ALL CABLES INSTALLED SHALL BE PROPERLY MARKED AND LABELED.
- ALL TERMINATIONS IN THE TERMINAL CABINET SHALL BE PERFORMED BY THE CONTRACTOR PULLING AND INSTALLING CABLE. ALL WIRES SHALL BE IDENTIFIED AT EACH TERMINAL AND/OR IN EACH OUTLET.
- ALL WIRE AND CABLES SHALL BE CONTINUOUS AND SPLICE FREE.
- MAINTAIN CONSISTENT ABSOLUTE PAIRING, COLOR CODE AND SIGNAL POLARITY AT ALL CONNECTORS, PATCH POINTS AND CONNECTION POINTS ACCESSIBLE IN THE SYSTEM.
- THE T-BAR CEILING SUPPORT WIRES SHALL NOT BE USED TO SUPPORT THE CABLES.
- ALL WIRING SHALL BE FREE FROM GROUND, OPEN AND SHORT CIRCUIT.
- ALL MOTION DETECTOR SHALL BE LOCATED PER DISTRICT INSTRUCTIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ANOC	REMOTE FIRE ALARM ANNUNCIATOR
C	CONDUIT
CLK	CLOCK
CSFM	CALIFORNIA STATE FIRE MARSHALL
CL	CENTER LINE
DN	DOWN
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
IC	INTERCOM
MH	MANHOLE
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PA	PUBLIC ADDRESS
PB	PULL BOX
SLC	SIGNALING LINE CIRCUIT
(SMD)	SUPPLIED BY MECHANICAL DIVISION
SPK	SPEAKER
STC	SIGNAL TERMINAL CABINET
TB	TERMINAL BLOCK
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MFG.	MODEL NO.	ROUGH-IN	MT HEIGHT
ACP	ACCESS CONTROL PANEL	AMAG	MULTINODE-LITE	W/UNIT	AS REQUIRED
WIU	WIEGAND INTERFACE UNIT	AMAG	WIU	W/UNIT	AS REQUIRED
NIC	NETWORK INTERFACE CARD	AMAG	MSS-LITE	W/UNIT	AS REQUIRED
PS	12VDC POWER SUPPLY	ALTRONIX	SMP3PM-CTX	W/UNIT	AS REQUIRED
DC	DOOR CONTACT, RECESSED	SENTROL	1078		DOOR/DOOR JAM
PIR	PASSIVE INFRARED SENSOR	PULNIX	PA-6812E	4" SQ. W/ 1GA	AS REQUIRED
DMA	DOOR MANAGEMENT ALARM	DSI	ES4200K1	3 GANG ELEC. BOX	42" A.F.F.
CR	CARD READER	HID	5365	W/UNIT	AS REQUIRED
J	JUNCTION BOX				

CABLE/WIRE SCHEDULE

TYPE	MFG.	MODEL NO.	DESCRIPTION	INSTALLATION	FUNCTION
-A-	BELDEN	9537	CABLE, 7 COND. 24 AWG STRAND	CONDUIT/J-HOOK	CARD READER (BLDG.)
-B-	BELDEN	9502	CABLE, 2PR, 24 AWG STRAND	CONDUIT	CONTROLLER TO CONTROLLER
-C-	BELDEN	9503	CABLE, 3PR, 24 AWG STRAND	CONDUIT/J-HOOK	WIU TO CONTROLLER
-D-	BELDEN	8641	CABLE, 1PR, 24 AWG STRAND	CONDUIT/J-HOOK	DOOR CONTACT/PIR
-P-	WEST PENN	224	CABLE, 2 COND. 18 AWG STRAND	CONDUIT/J-HOOK	POWER

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Electrical Contractor :
ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals :

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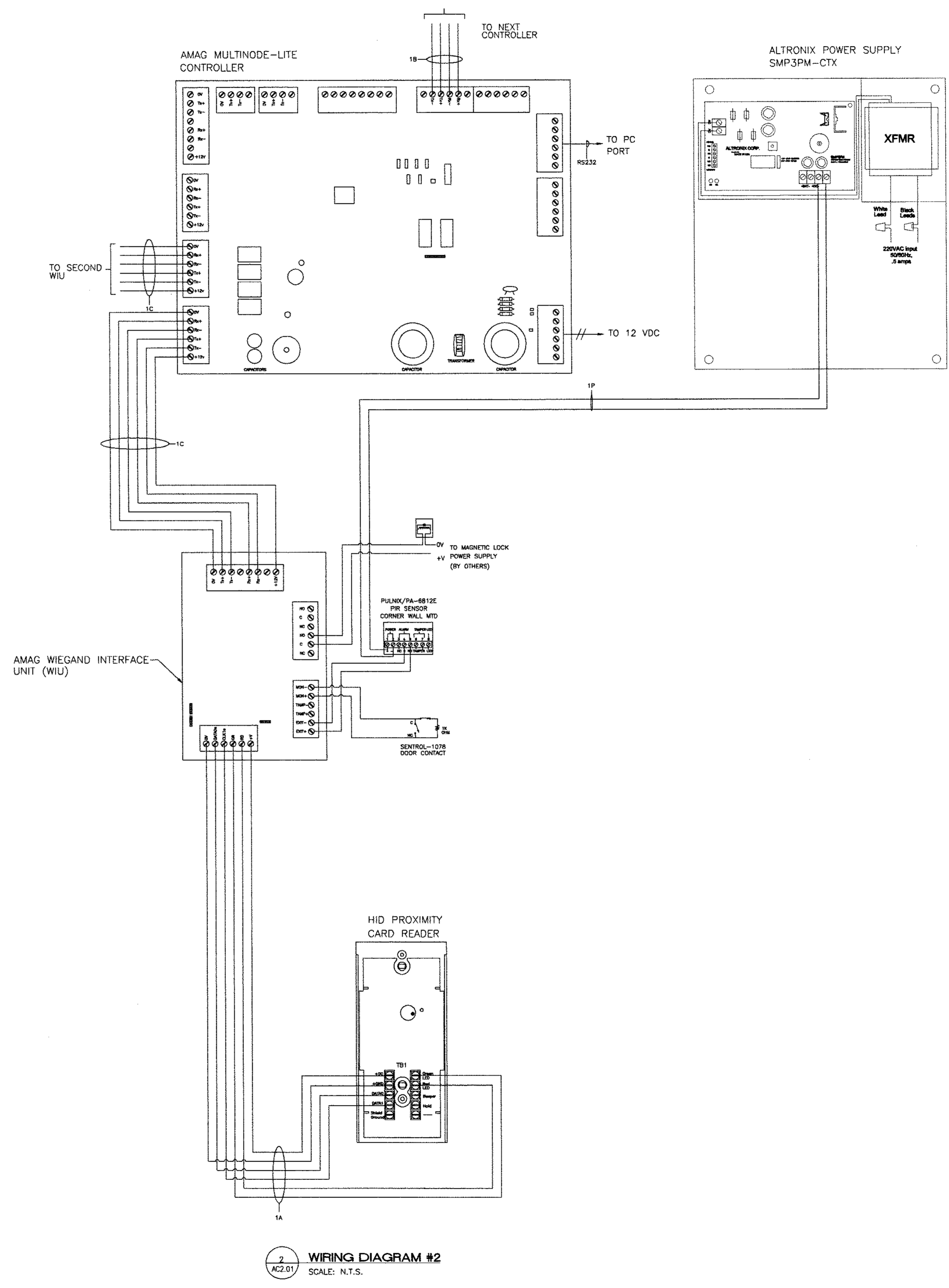
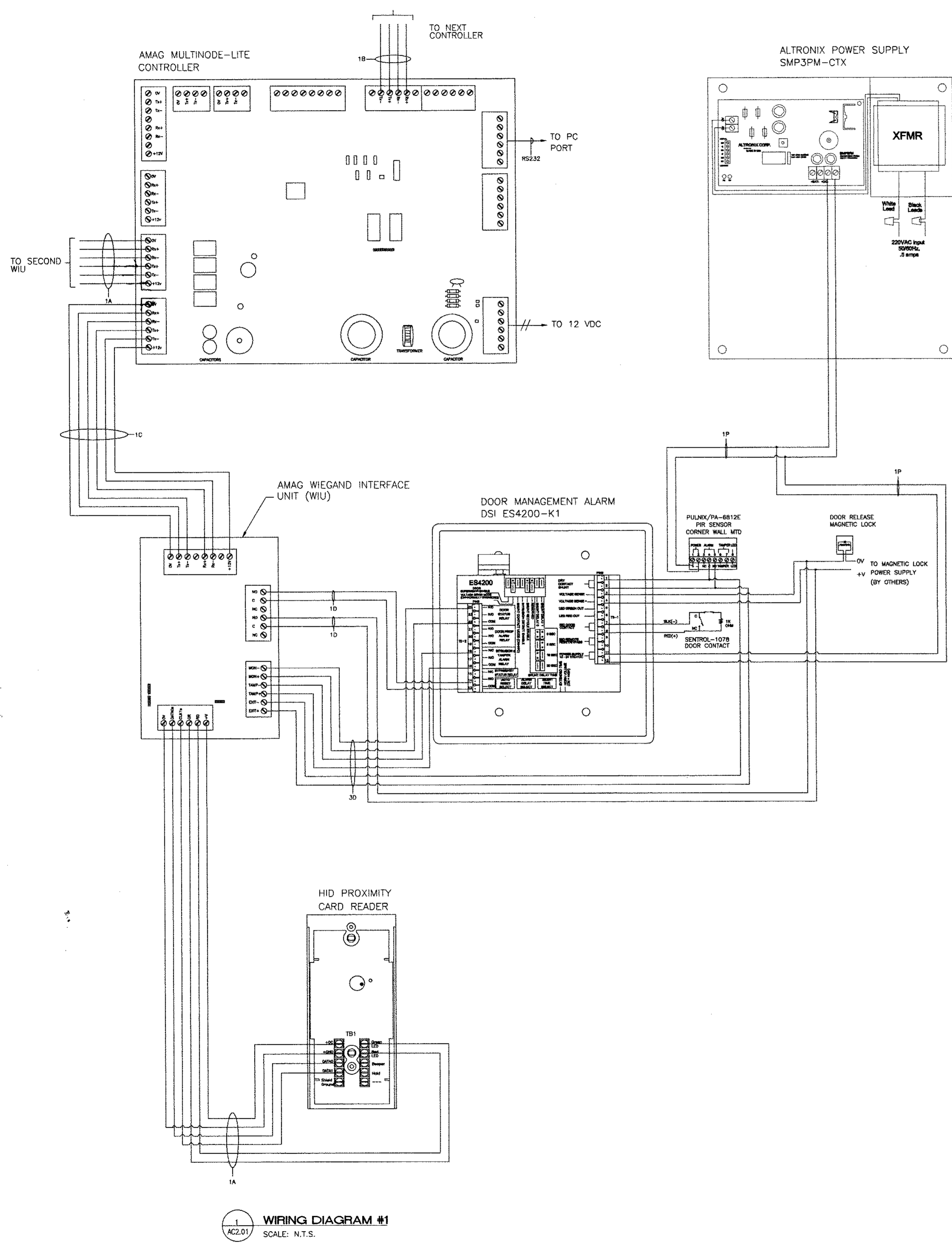
Project Title :
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Sheet Title :
ACCESS CONTROL SYSTEM

WIRING DIAGRAM

SWS No. : 2003-898
 File No. : 898-2.01
 Scale : NTS
 Drawn by : RB
 Checked by : LEO
 Date : 11-13-2003

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 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

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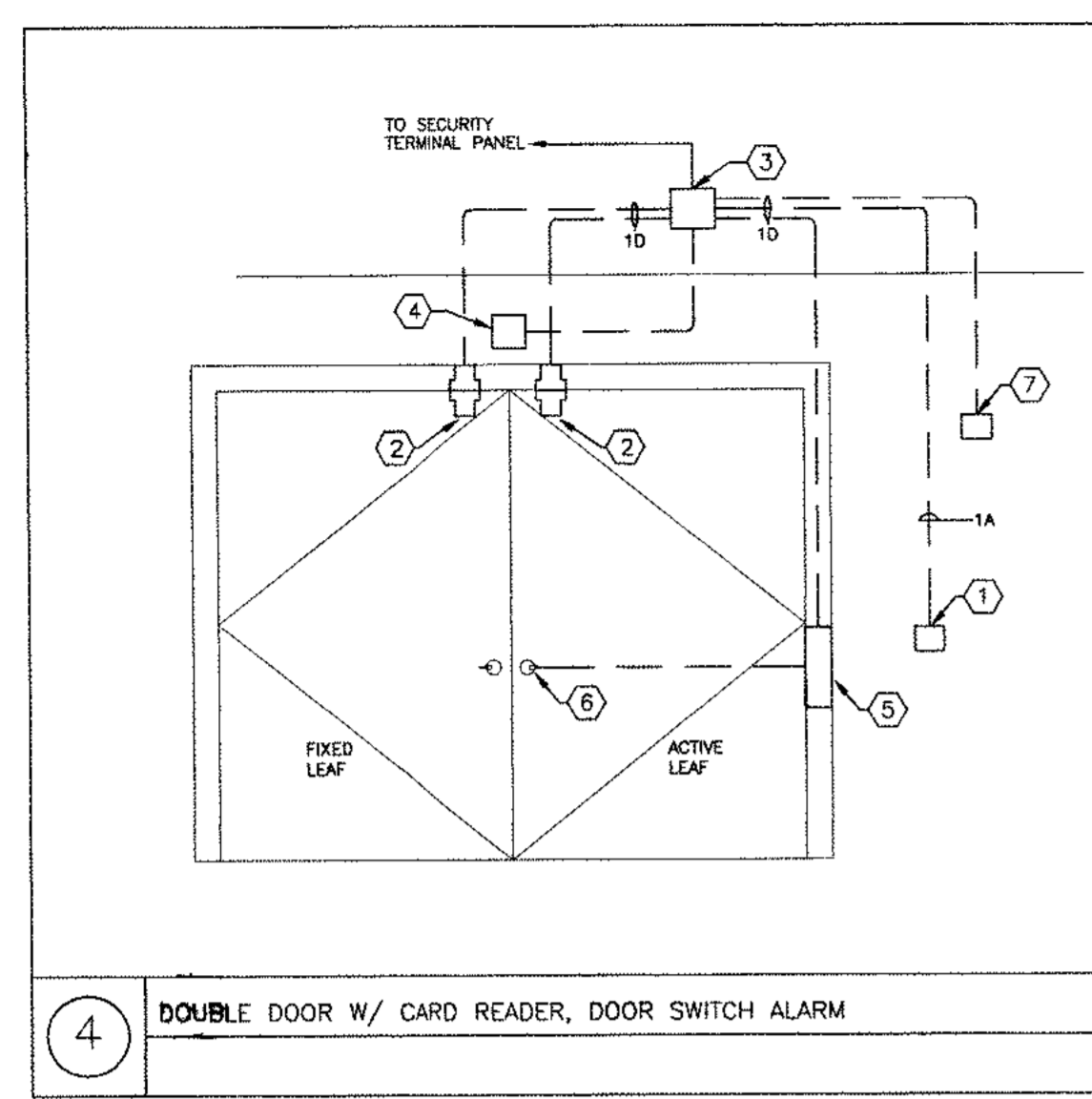
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Sheet Title :
ACCESS CONTROL SYSTEM

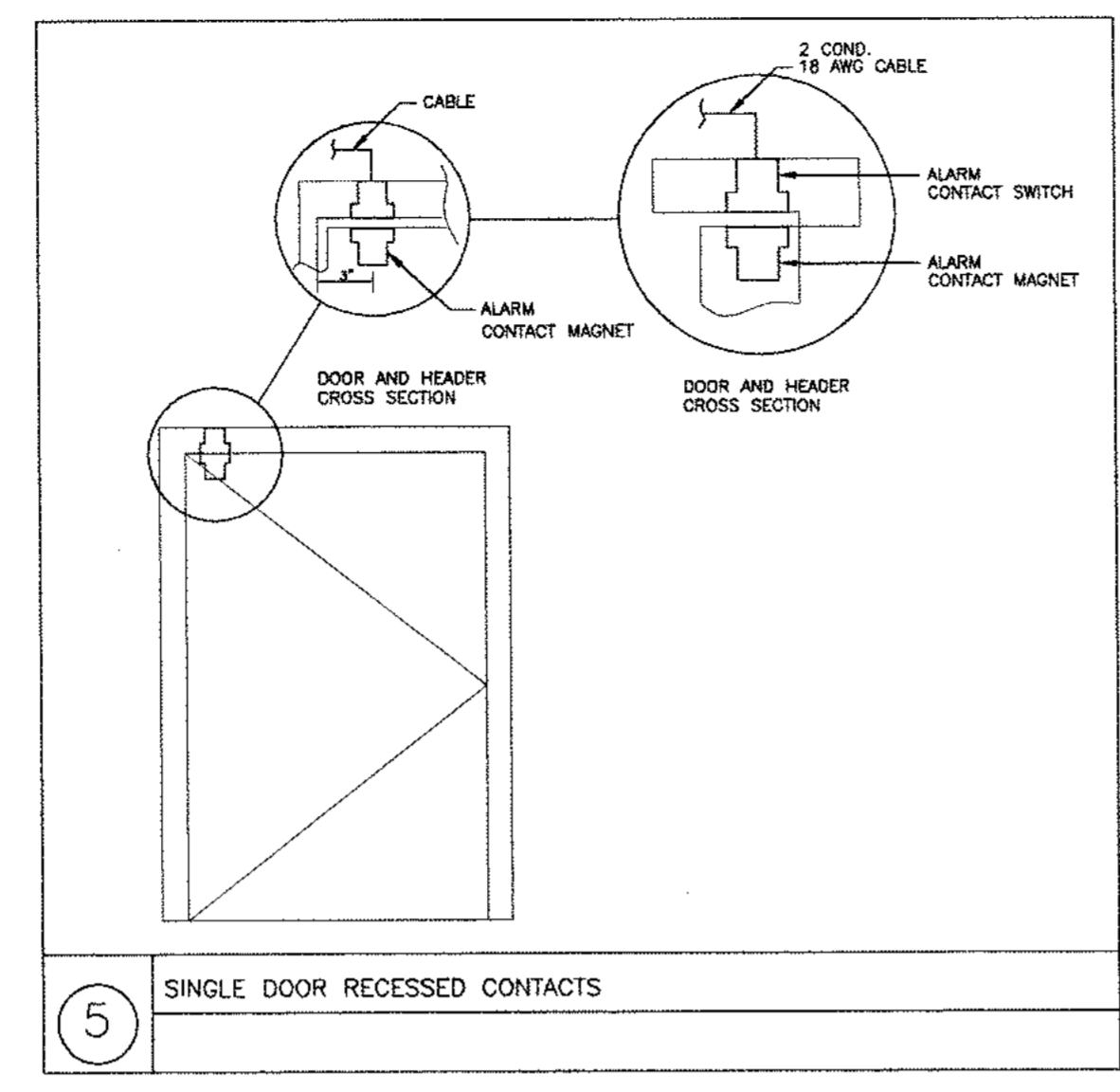
DETAILS

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 Date : 11-13-2003

Sheet Number :
AC2.02

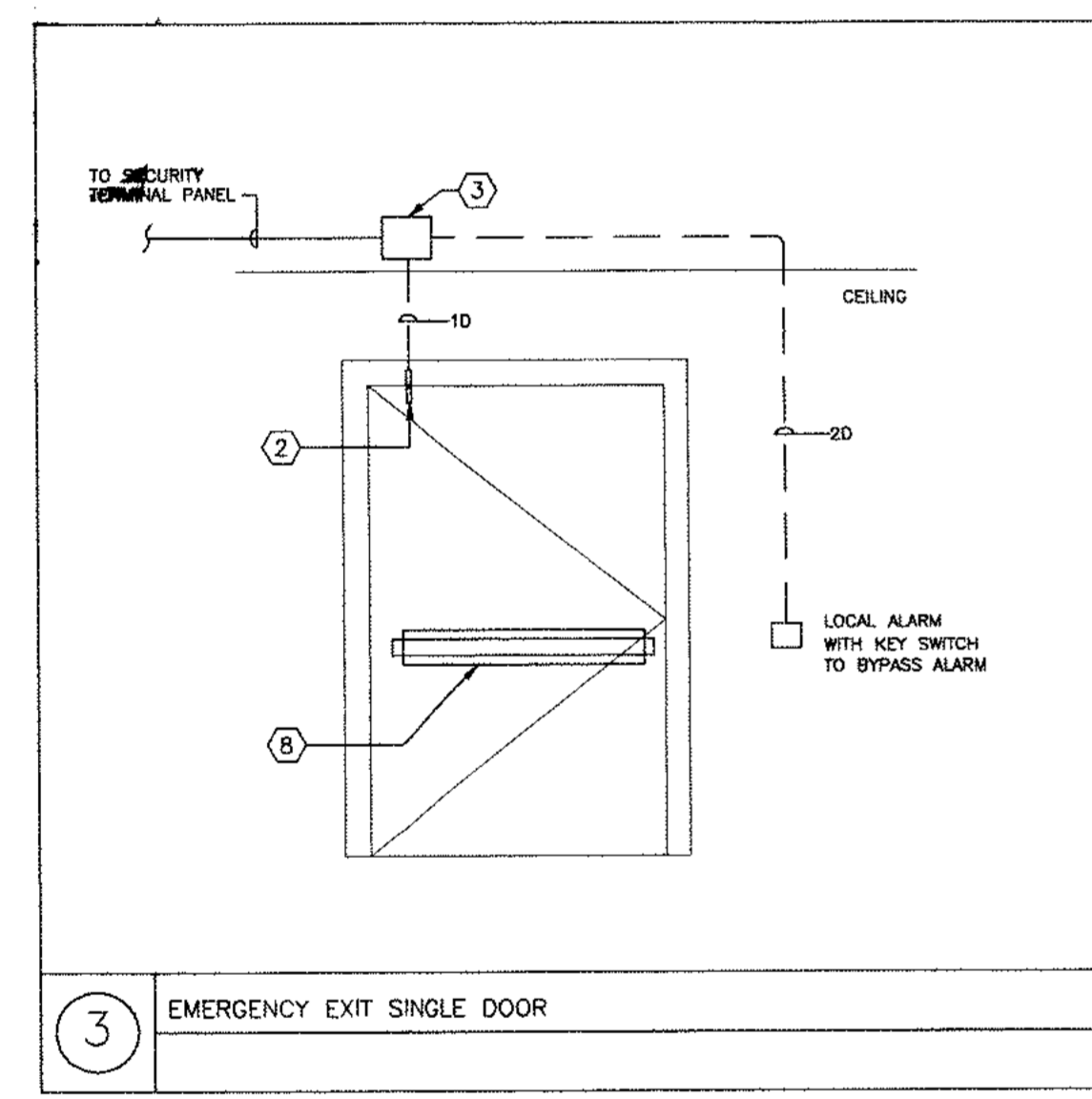


4 DOUBLE DOOR W/ CARD READER, DOOR SWITCH ALARM

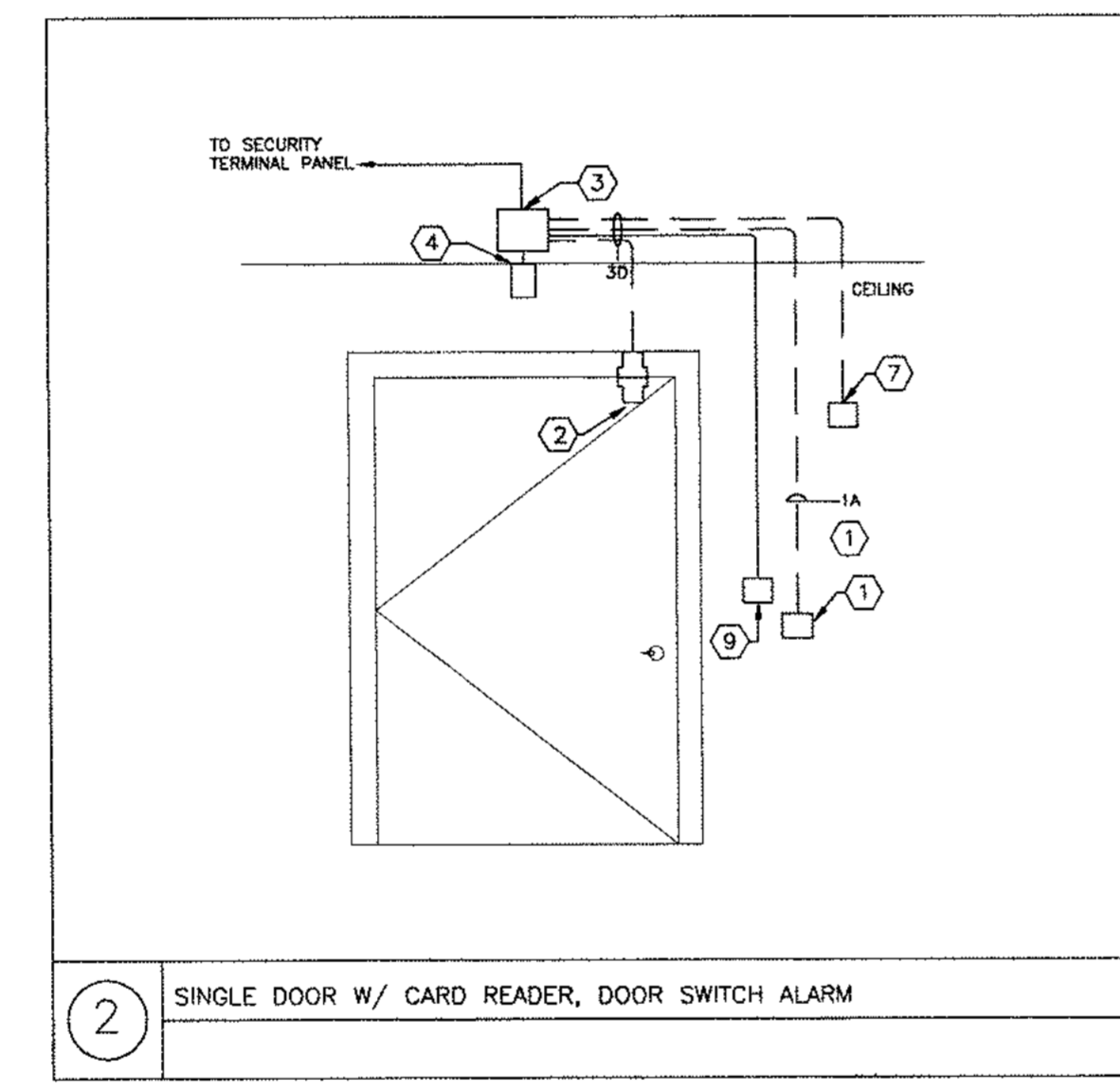


5 SINGLE DOOR RECESSED CONTACTS

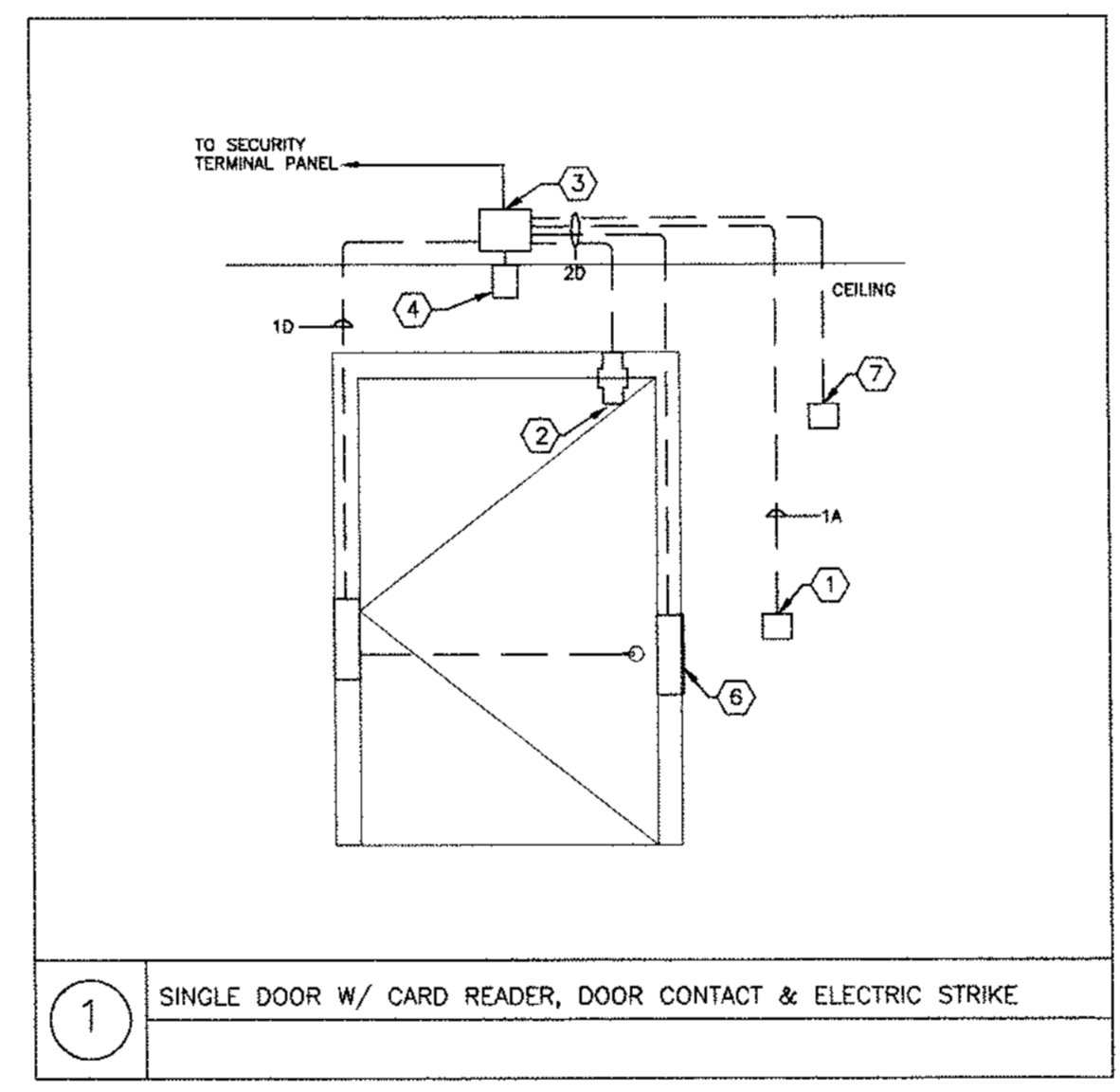
- NUMBERED NOTES**
- 1 PROVIDE 4X4" BOX WITH SINGLE GANG DEVICE FOR CARD READER.
 - 2 STUB CONDUIT INTO HEAD OF DOOR FRAME FOR CONCEALED DOOR CONTACT.
 - 3 PROVIDE 1/2X1/2" JUNCTION BOX WITH SINGLE GANG DEVICE RING FOR FLUSH ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.
 - 4 PROVIDE 4X4X2-1/8" BOX WITH SINGLE GANG DEVICE RING FOR FLUSH MOUNTED ON THE CEILING OPPOSITE SIDE OF THE DOOR FOR PASSIVE INFRARED MOTION DETECTOR.
 - 5 STUB CONDUIT DOWN DOOR FRAME FOR AND CONNECT TO TRANSFER HINGE LOCK.
 - 6 ELECTRO-MECHANICAL LOCK SET OR ELECTRIC STRIKE.
 - 7 PROVIDE 4X4X2-1/8" BOX WITH SINGLE GANG DEVICE RING FOR FLUSH MOUNTED IN THE WALL FOR LOCAL ALARM SOUNDER.
 - 8 ELECTRIFIED PANIC HARDWARE PROVIDED BY DOOR HARDWARE.
 - 9 DOOR MANAGEMENT ALARM



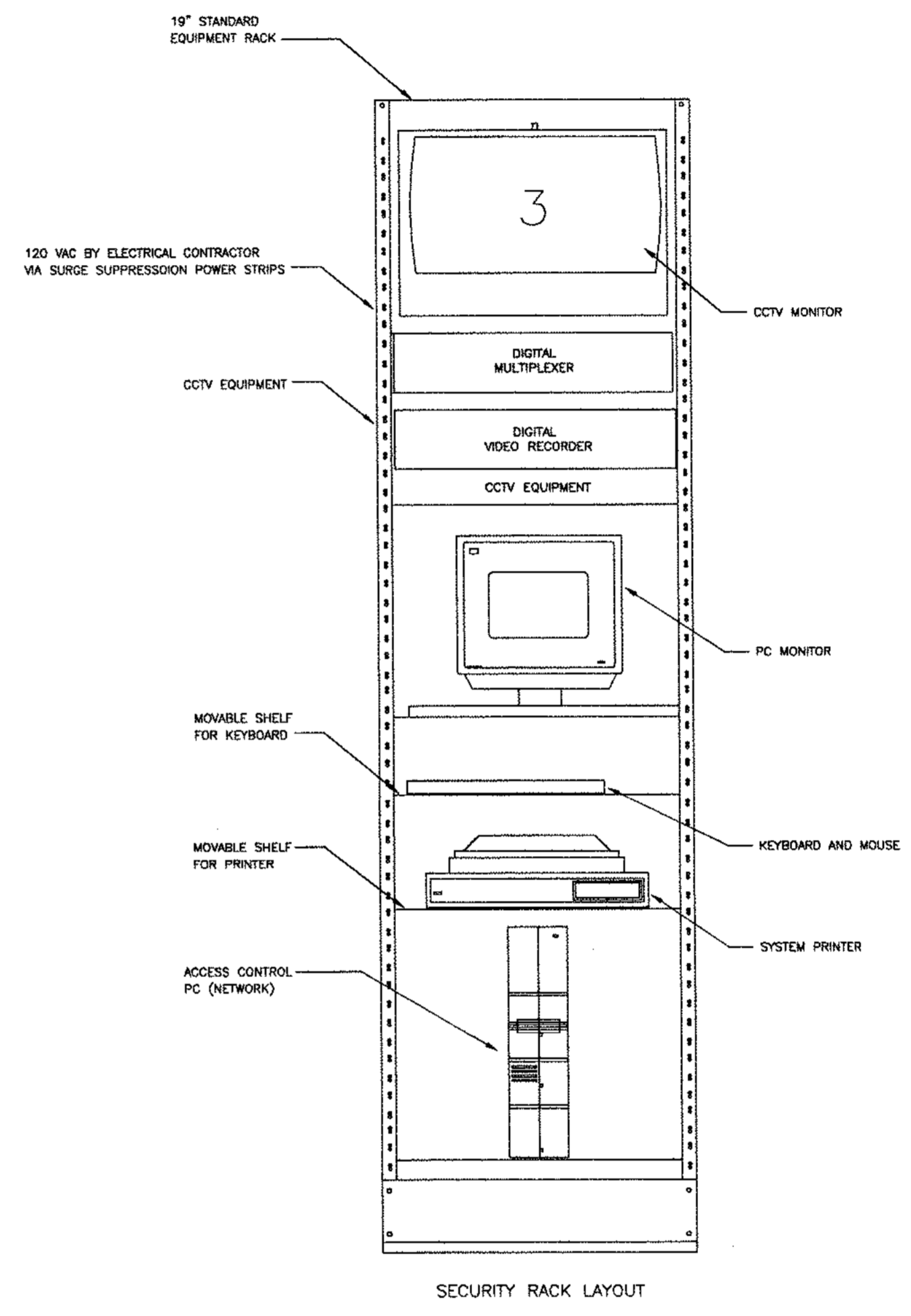
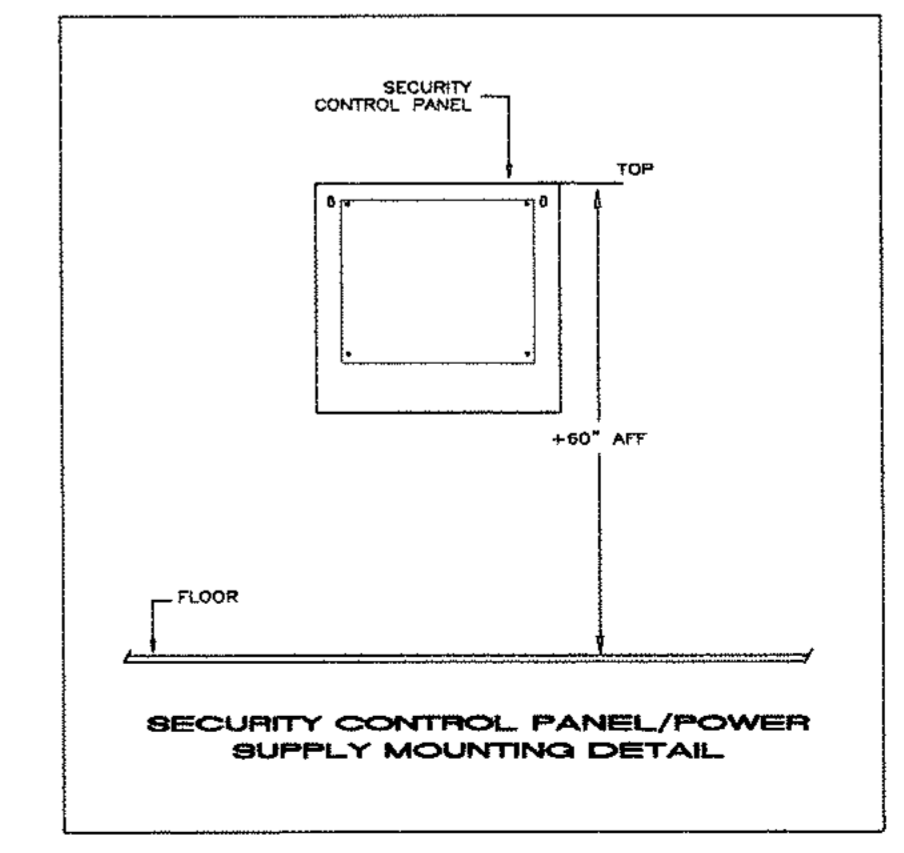
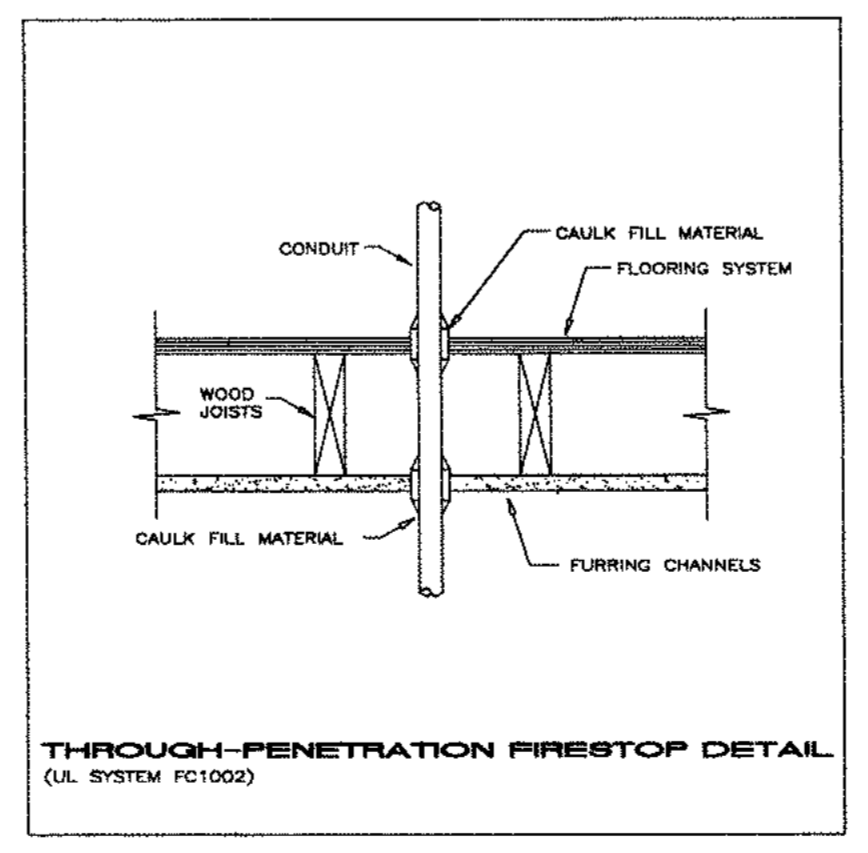
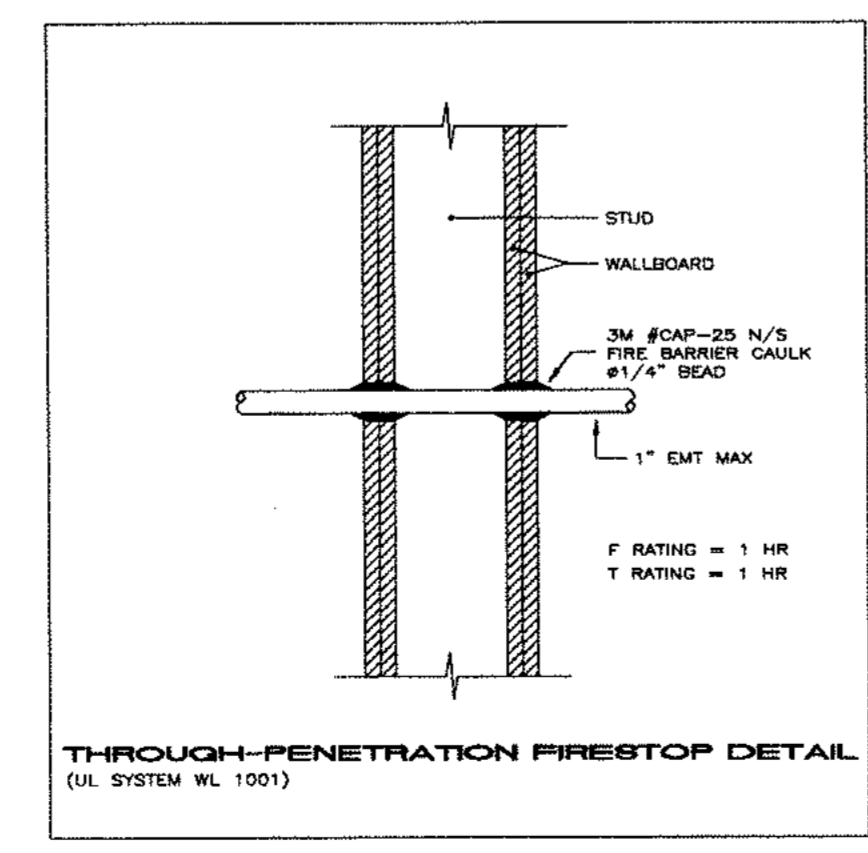
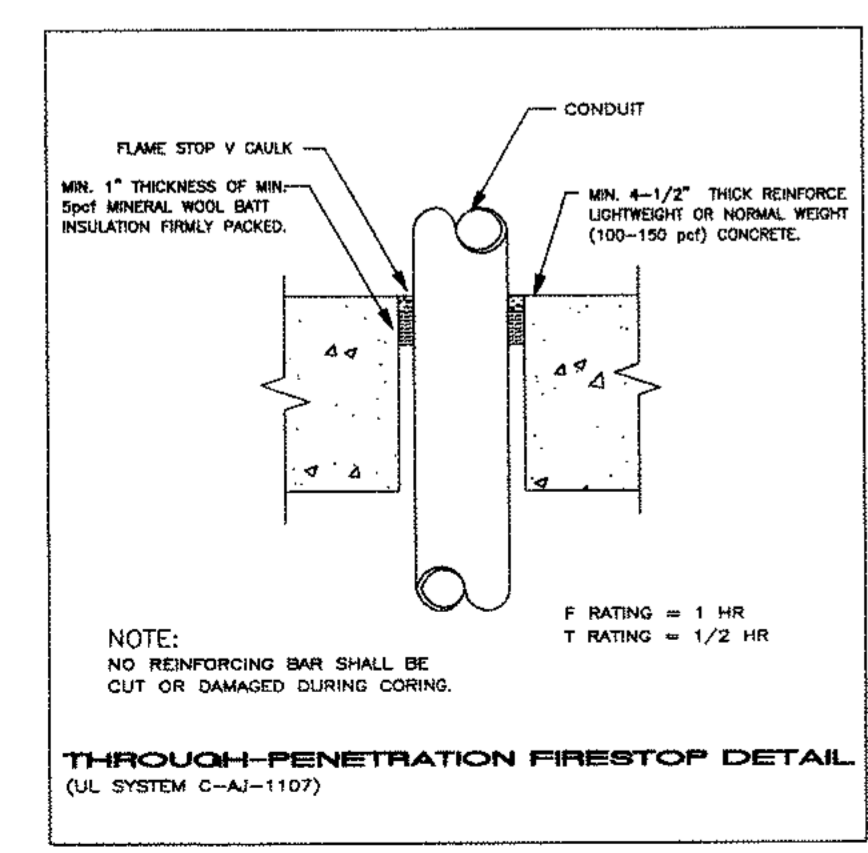
3 EMERGENCY EXIT SINGLE DOOR



2 SINGLE DOOR W/ CARD READER, DOOR SWITCH ALARM



1 SINGLE DOOR W/ CARD READER, DOOR CONTACT & ELECTRIC STRIKE



SW
SIGNWEST SYSTEMS
 7300 CENTRAL AVE. SUITE D
 NEWARK, CA 94660-4208
 PHO: 510/795-9999
 FAX: 510/795-9544
 LIC NO. 646074

LICENSED ELECTRICAL CONTRACTOR
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 3310 Bassett Street
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 Phone: (408) 986-1320
 Fax: (408) 986-1324

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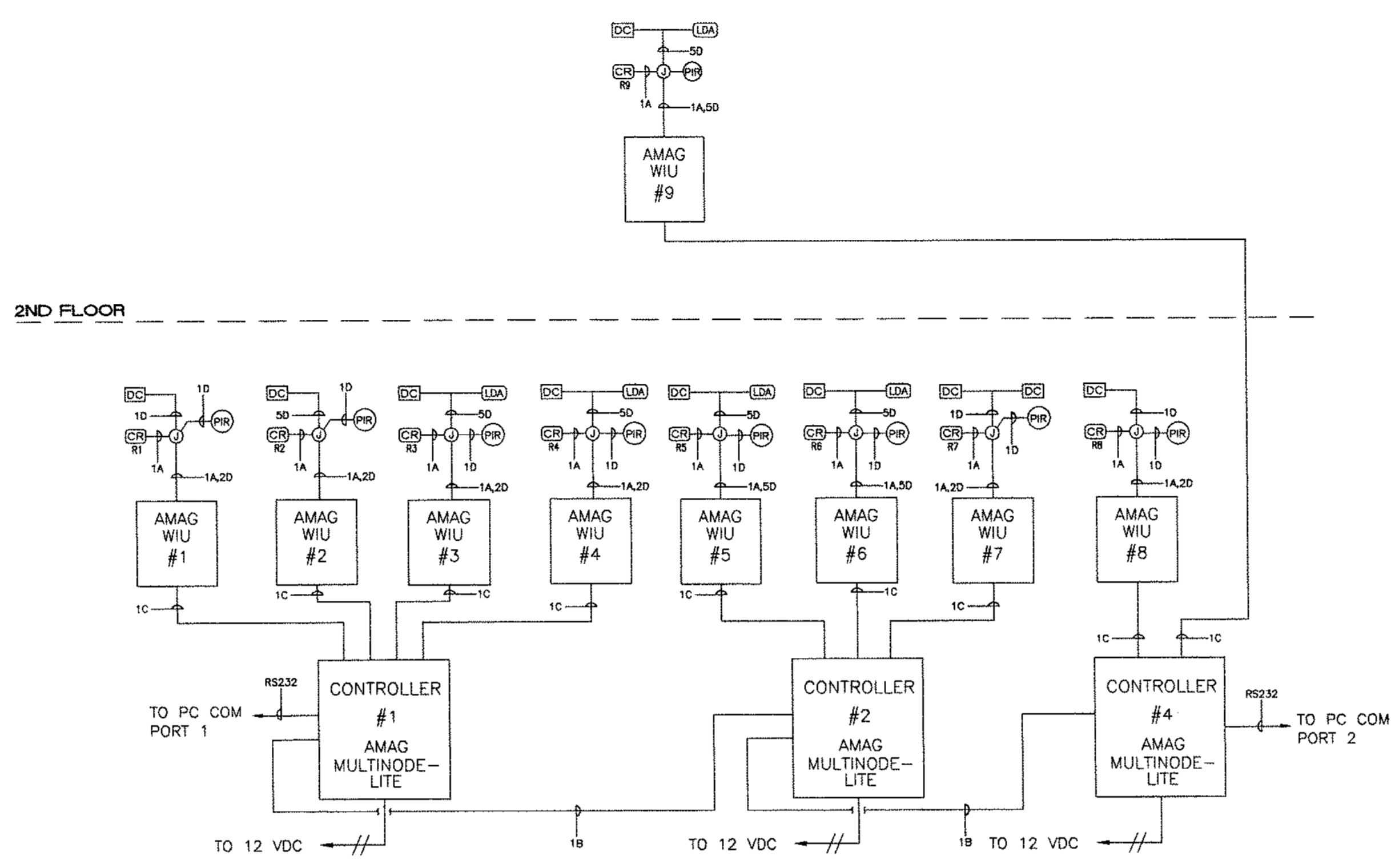
Revision :

Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :
ACCESS CONTROL SYSTEM
RISER AND SINGLE LINE DIAGRAM

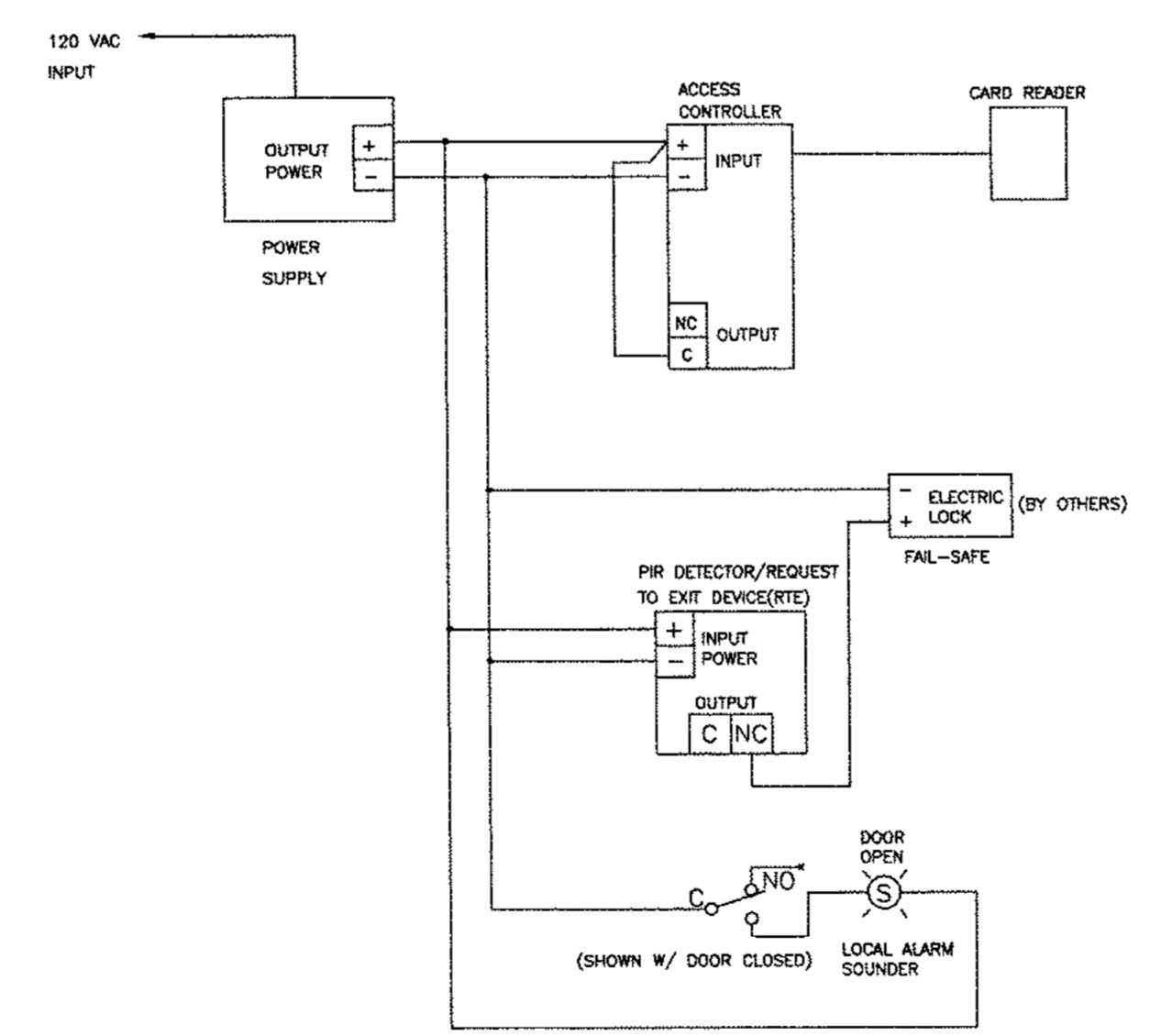
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 Scale : NTS
 Drawn by : RB
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 Date : 11-13-2003

Sheet Number :
AC2.03

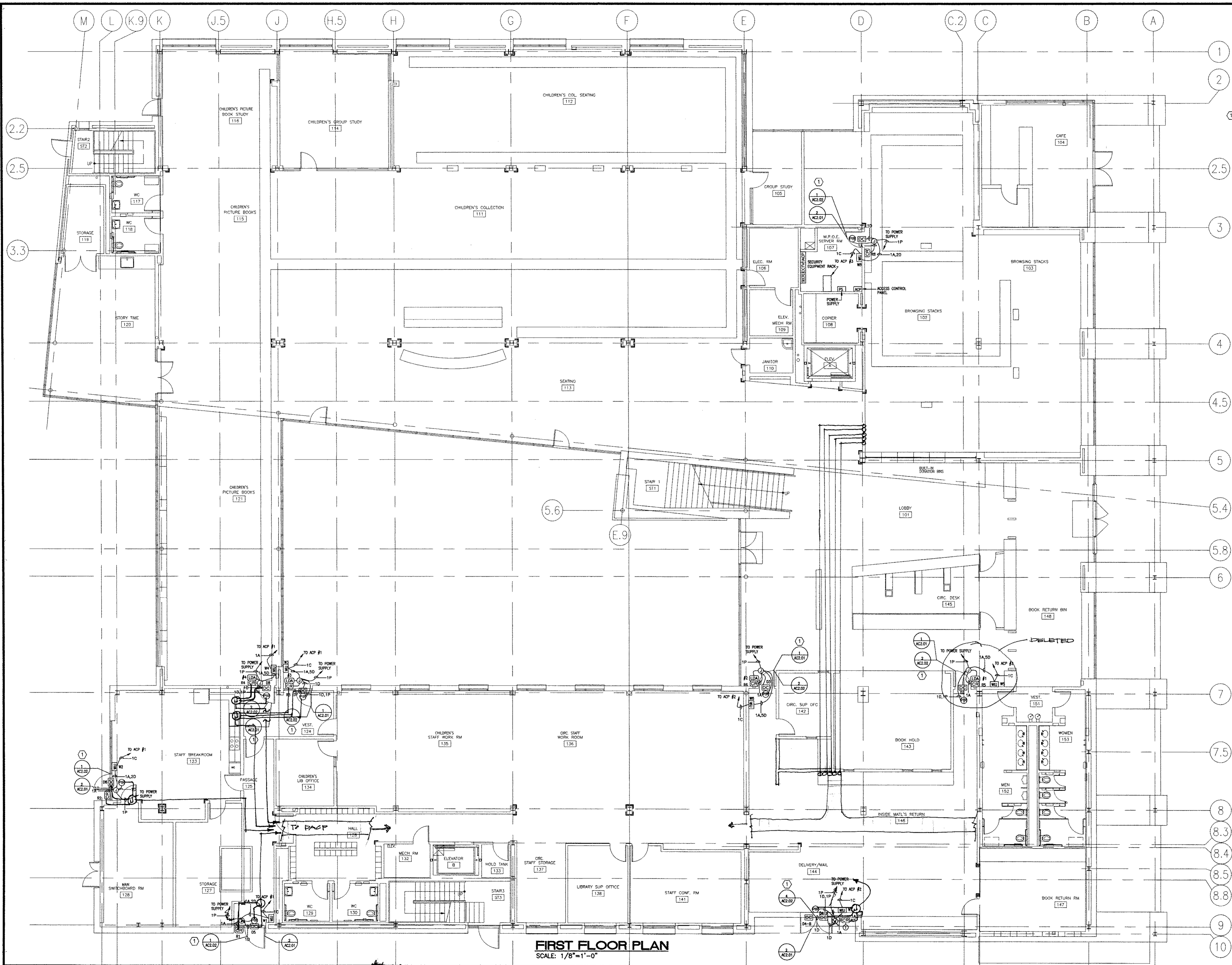


1ST FLOOR

RISER DIAGRAM
 SCALE: N.T.S.



TYPICAL SINGLE LINE DIAGRAM
 SCALE: N.T.S.



NOTES
 1 PROVIDE 12" X 12" JUNCTION BOX WITH WU MOUNTED INSIDE.

SW
SIGNWEST SYSTEMS
 7300 CENTRAL AVE. SUITE D
 NEWARK, CA 94560-4208
 PH: 510/795-0690
 FAX: 510/795-0644
 LIC NO. 646074

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 3310 Bassett Street
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 Phone: (408) 986-1320
 Fax: (408) 986-1324

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 Cupertino, CA 95014

Sheet Title :
ACCESS CONTROL SYSTEM

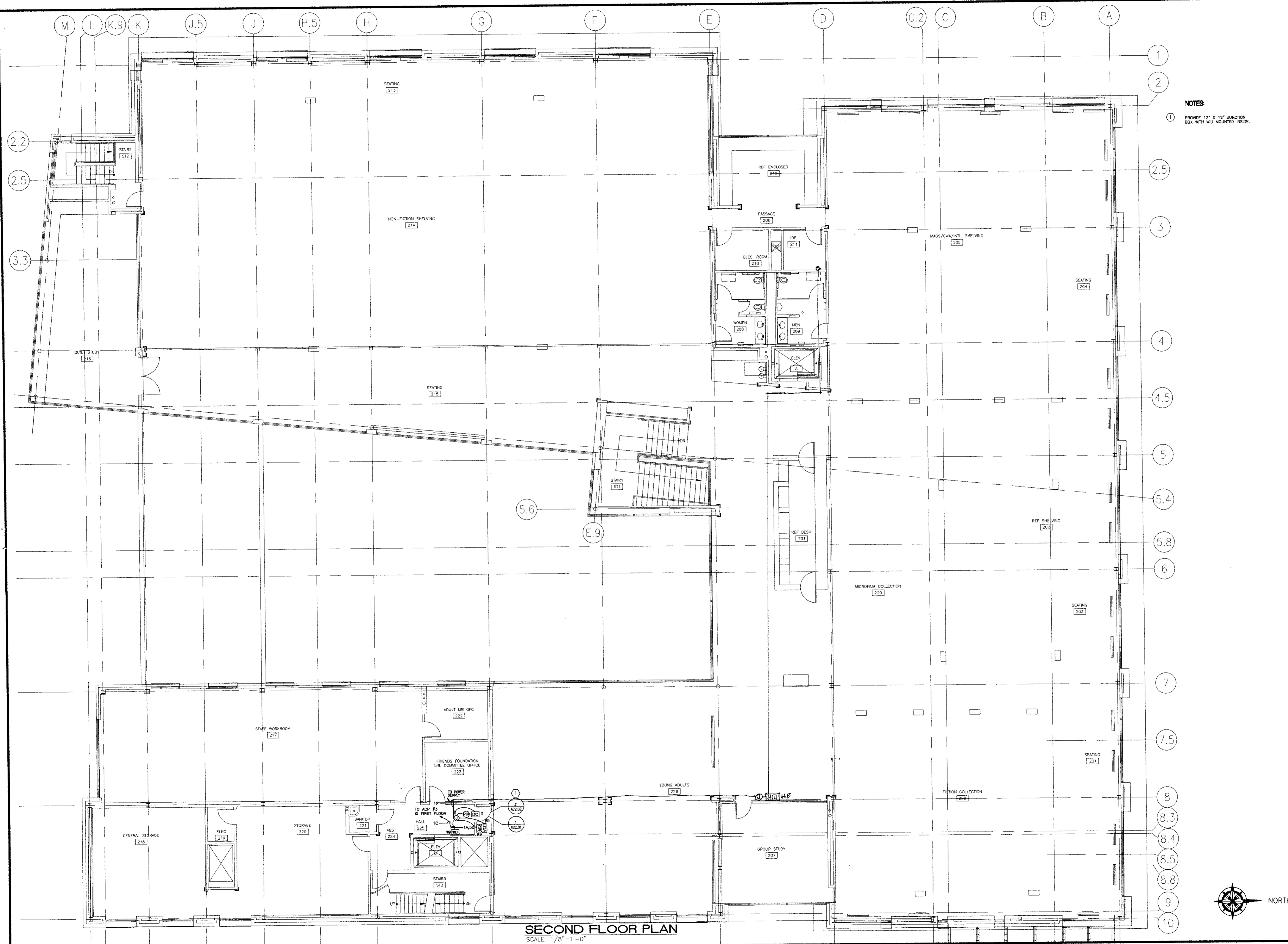
LIBRARY FIRST FLOOR PLAN

SWS No. : 2003-898
 File No. : 898-3.01
 Scale : 1/8"=1'-0"
 Drawn by : RB
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 Date : 11-13-2003

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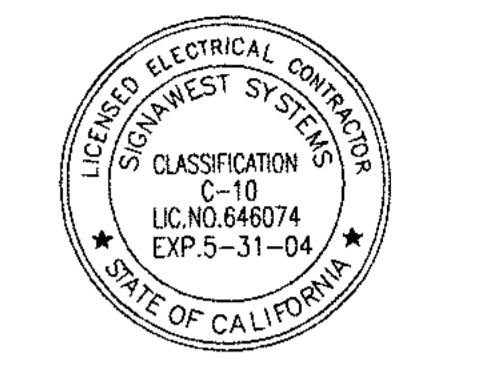
FIRST FLOOR PLAN
 SCALE: 1/8"=1'-0"





SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

SW
SIGNWEST SYSTEMS
7000 CENTRAL AVE. SUITE D
NEWARK, CA. 94560-4206
PH: 510/795-9900
FAX: 510/795-9544
LIC NO. 646074



NOTES
① PROVIDE 12" X 12" JUNCTION BOX WITH WU MOUNTED INSIDE.

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Electrical Contractor :

ELCOR ELECTRIC
3310 Bassett Street
Santa Clara, CA 95054
Phone: (408) 986-1320
Fax: (408) 986-1324

Approvals :

Revision :

Project Title :
CUPERTINO CIVIC CENTER
10400 Torre Avenue
Cupertino, CA 95014

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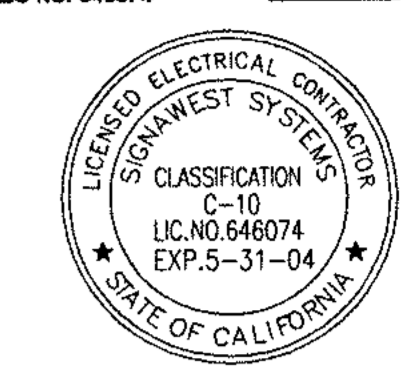
LIBRARY SECOND FLOOR PLAN

SWS No. : 2003-898
File No. : 898-3.02
Scale : 1/8"=1'-0"
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Date : 11-13-2003

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SW
SIGNAWEST SYSTEMS
 7000 CENTRAL AVE. SUITE D
 NEWARK, CA. 94560-4205
 PH: 810/795-0899
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Electrical Contractor :
ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals :

Revision :

Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :
CCTV SYSTEMS
TITLE SHEET

SWS No. : 2003-898
 File No. : 898-1.01
 Scale : N.T.S.
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 Checked by : LEO
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CTV1.01

GENERAL NOTES

1. ALL CONDUIT SHALL HAVE PULL STRING INSTALLED.
2. ALL CABLES INSTALLED SHALL BE PROPERLY MARKED AND LABELED.
3. ALL TERMINATIONS IN THE TERMINAL CABINET SHALL BE PERFORMED BY THE CONTRACTOR PULLING AND INSTALLING CABLE. ALL WIRES SHALL BE IDENTIFIED AT EACH TERMINAL AND/OR IN EACH OUTLET.
4. ALL WIRE AND CABLES SHALL BE CONTINUOUS AND SPLICE FREE.
5. MAINTAIN CONSISTENT ABSOLUTE PAIRING, COLOR CODE AND SIGNAL POLARITY AT ALL CONNECTORS, PATCH POINTS AND CONNECTION POINTS ACCESSIBLE IN THE SYSTEM.
6. THE T-BAR CEILING SUPPORT WIRES SHALL NOT BE USED TO SUPPORT THE CABLES.
7. ALL WIRING SHALL BE FREE FROM GROUND, OPEN AND SHORT CIRCUIT.
8. ALL MOTION DETECTOR SHALL BE LOCATED PER DISTRICT INSTRUCTIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ANOC	REMOTE FIRE ALARM ANNUNCIATOR
C	CONDUIT
CLK	CLOCK
CSFM	CALIFORNIA STATE FIRE MARSHALL
Ⓢ	CENTER LINE
DN	DOWN
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
IC	INTERCOM
MH	MANHOLE
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PA	PUBLIC ADDRESS
PB	PULL BOX
SLC	SIGNALING LINE CIRCUIT
(SMD)	SUPPLIED BY MECHANICAL DIVISION
SPK	SPEAKER
STC	SIGNAL TERMINAL CABINET
TB	TERMINAL BLOCK
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF

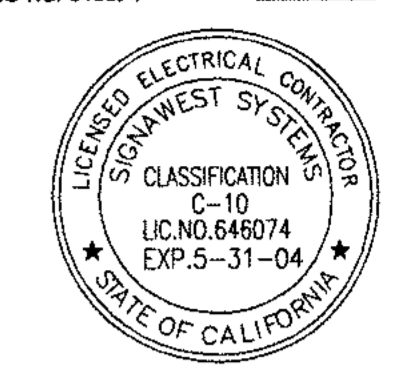
SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MFG.	MODEL NO.	ROUGH-IN	MT HEIGHT
[PS]	24 VAC POWER SUPPLY	PELCO	MCS16-10B	W/UNIT	AS REQUIRED
[A]	CAMERA, SURFACE MOUNT	PELCO	ICS100-CRV3A/ICS100PG	4" SQ. W/ 1GA	+8-3" CL
[B]	CAMERA, WEDGE MOUNT	PELCO	ICS200-CRV3A	4" SQ. W/ 1GA	+8-3" CL
[C]	CAMERA, TRACK MOUNT	PELCO	ICS300-CRV3A	4" SQ. W/ 1GA	+8-3" CL
[15]	VIDEO MONITOR, 15"	PELCO	PMCL-15A	4" SQ. W/ 1GA	AS REQUIRED
[19]	VIDEO MONITOR 19"/RMA 19T	PELCO	PMCS-19A	W/UNIT	MTD. IN SECURITY RACK

CABLE/WIRE SCHEDULE

TYPE	MFG.	MODEL NO.	DESCRIPTION	INSTALLATION	FUNCTION
-B-	WEST PENN	815	CABLE, COAXIAL, RG-59U, 20 AWG SOLID	CONDUIT/J-HOOK	CCTV/MONITOR
-C-	WEST PENN	293	CABLE, 2 CONDUCTOR 18 AWG, O/A SHIELDED, TYPE CMR	CONDUIT/J-HOOK	POWER

CUPERTINO CIVIC CENTER
 CUPERTINO, CA



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Electrical Contractor :
ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals :

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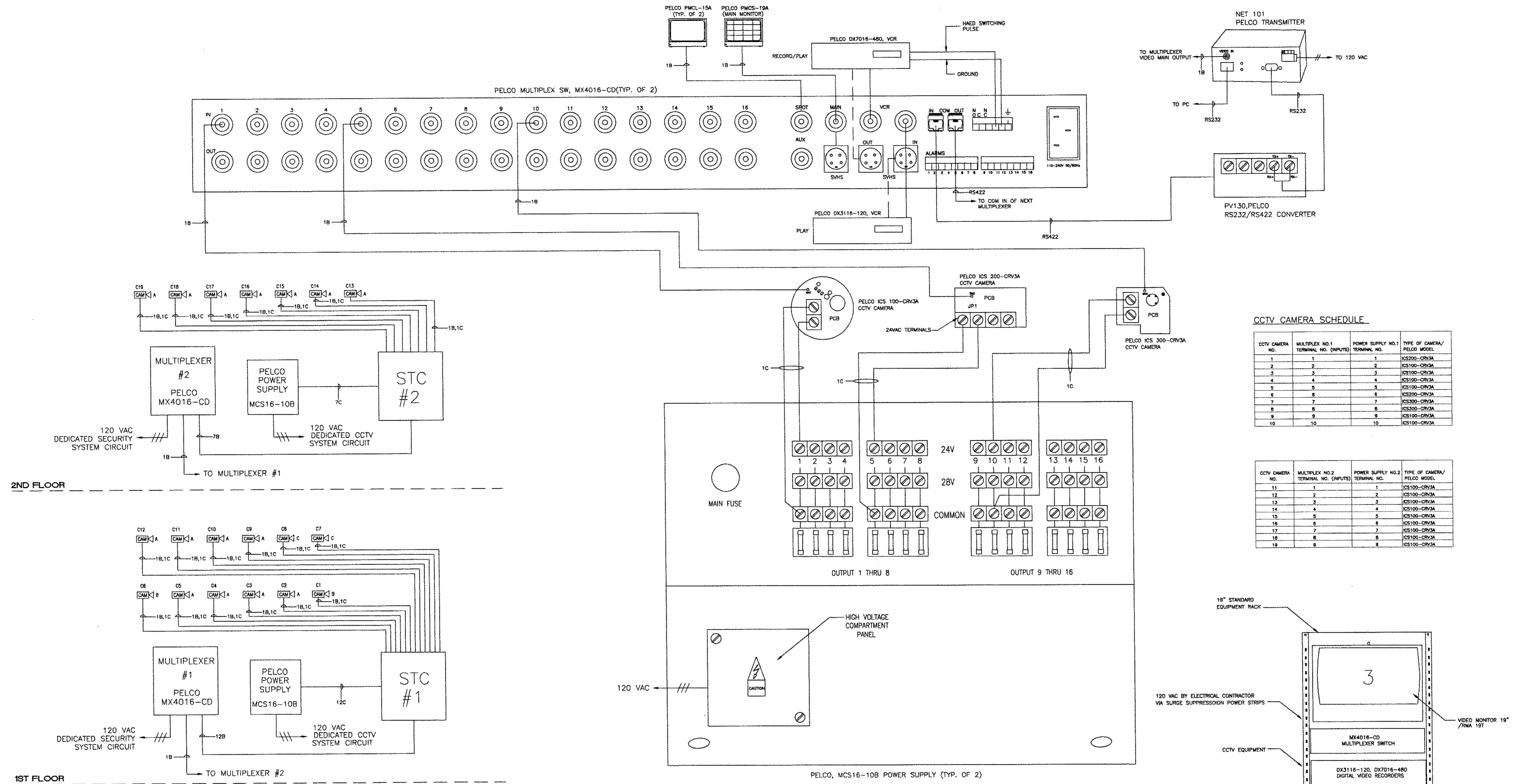
CCTV SYSTEMS

DETAILS

SWS No. : 2003-898
 File No. : 898-2.01
 Scale : NTS
 Drawn by : RB
 Checked by : LEO
 Date : 11-13-2003

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CTV2.01



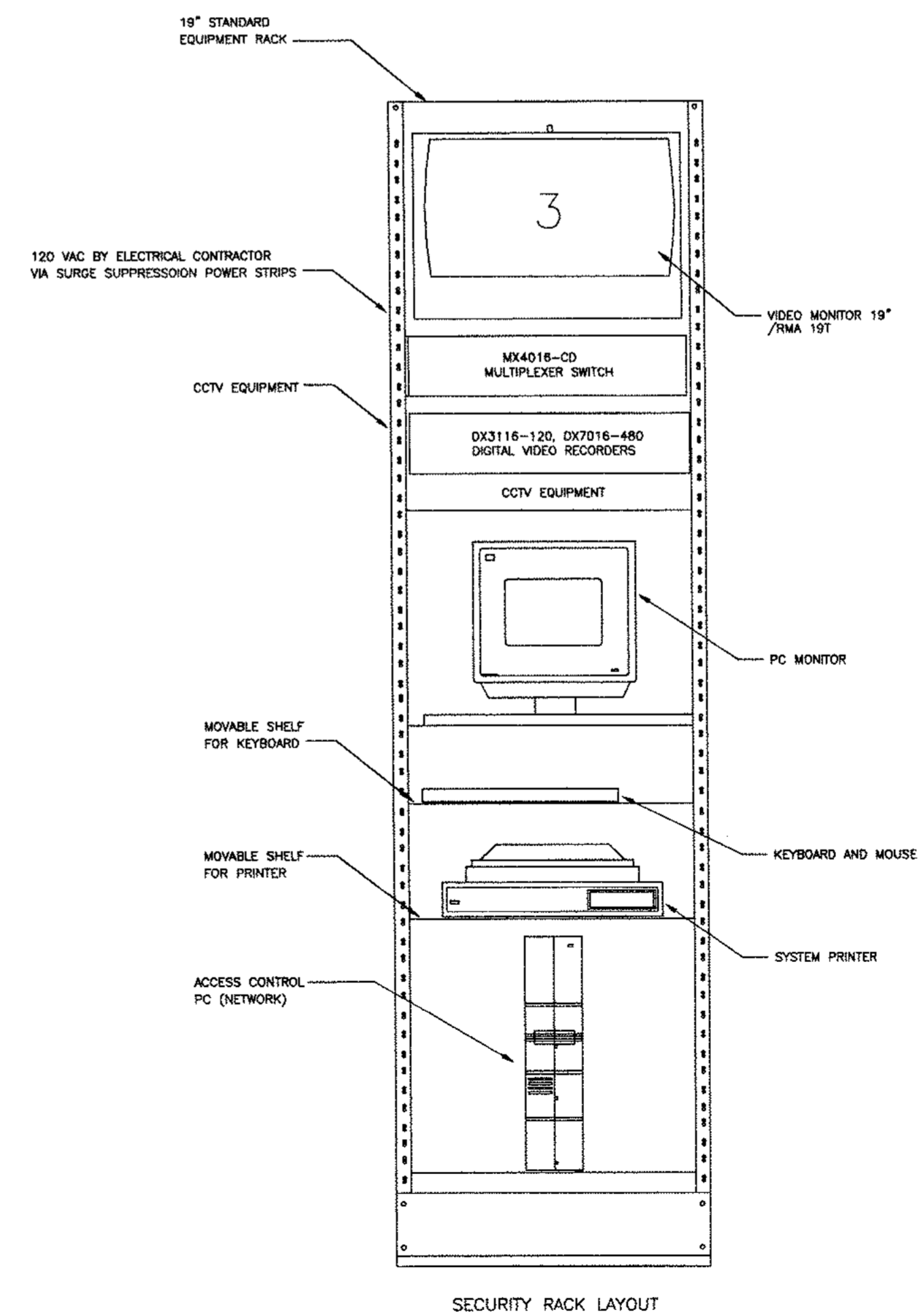
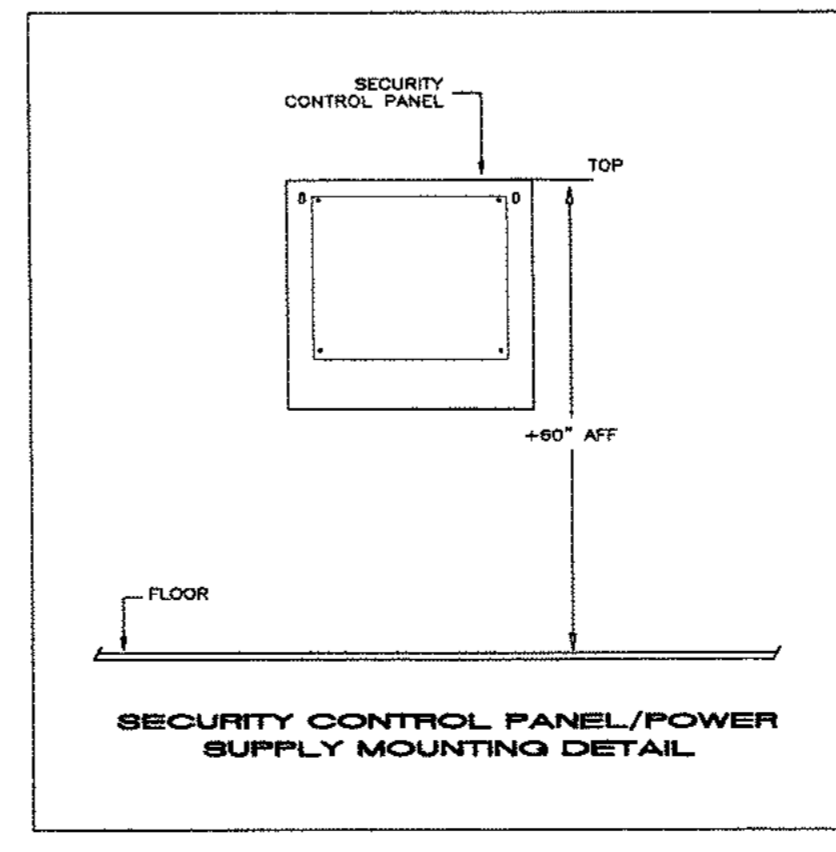
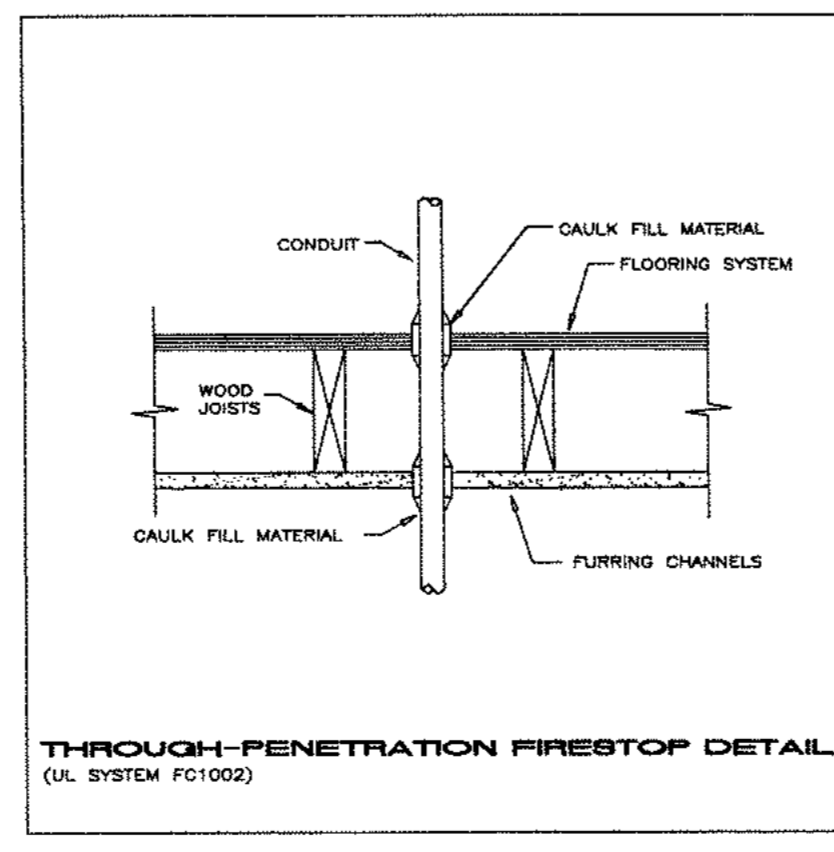
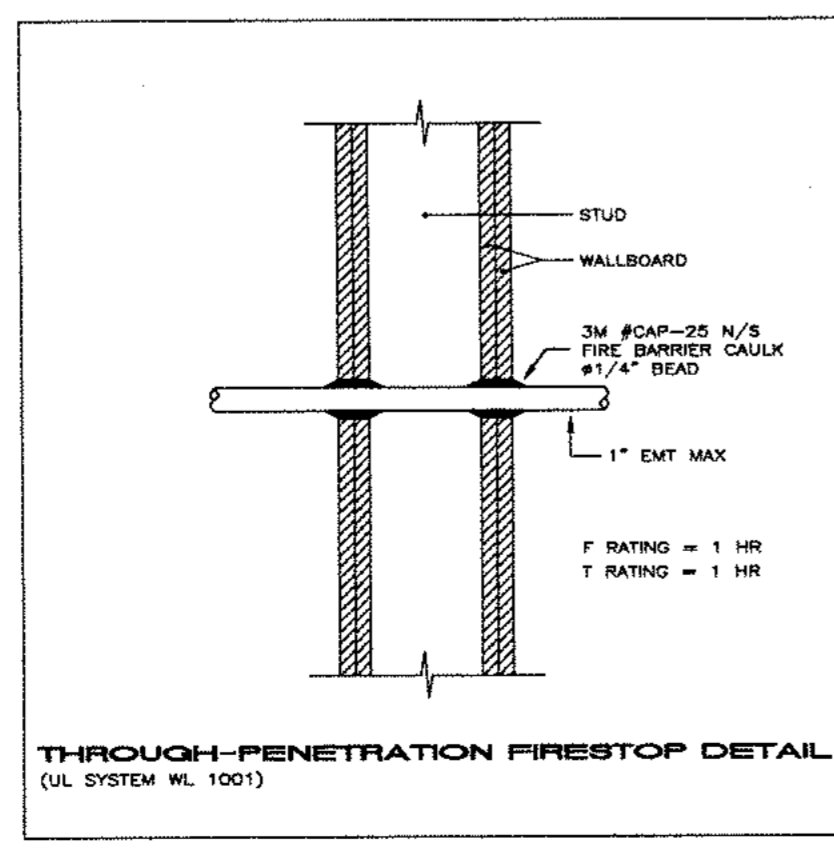
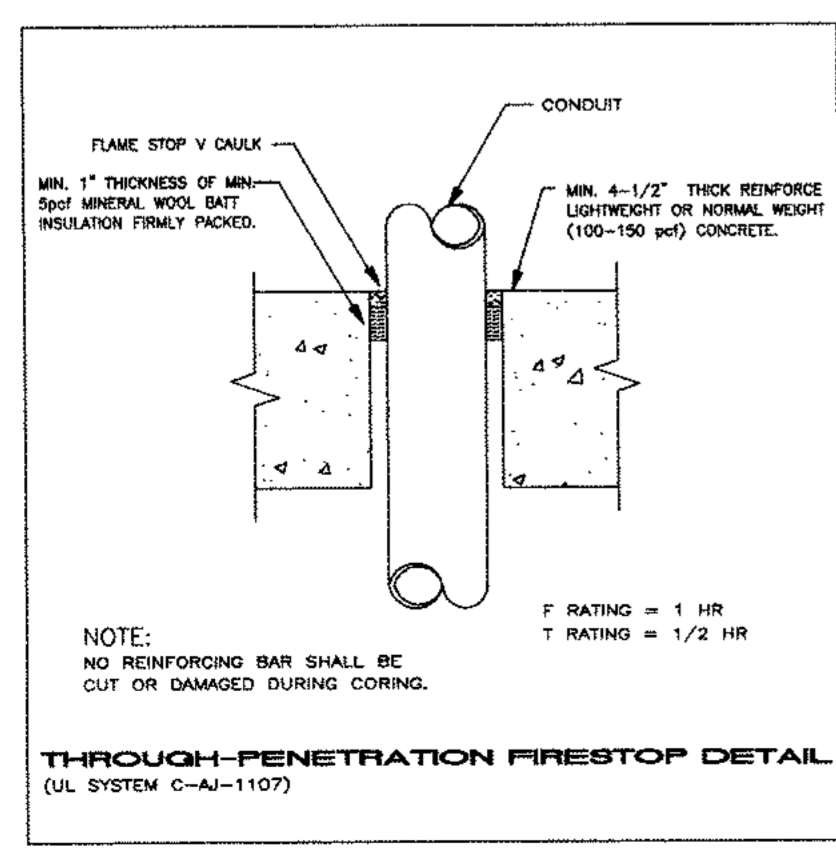
CCTV CAMERA SCHEDULE

CCTV CAMERA NO.	MULTIPLEX NO.1 TERMINAL NO. (INPUTS)	POWER SUPPLY NO.1 TERMINAL NO.	TYPE OF CAMERA/PELCO MODEL
1	1	1	ICS200-CR/3A
2	2	2	ICS100-CR/3A
3	3	3	ICS100-CR/3A
4	4	4	ICS100-CR/3A
5	5	5	ICS100-CR/3A
6	6	6	ICS200-CR/3A
7	7	7	ICS300-CR/3A
8	8	8	ICS200-CR/3A
9	9	9	ICS100-CR/3A
10	10	10	ICS100-CR/3A

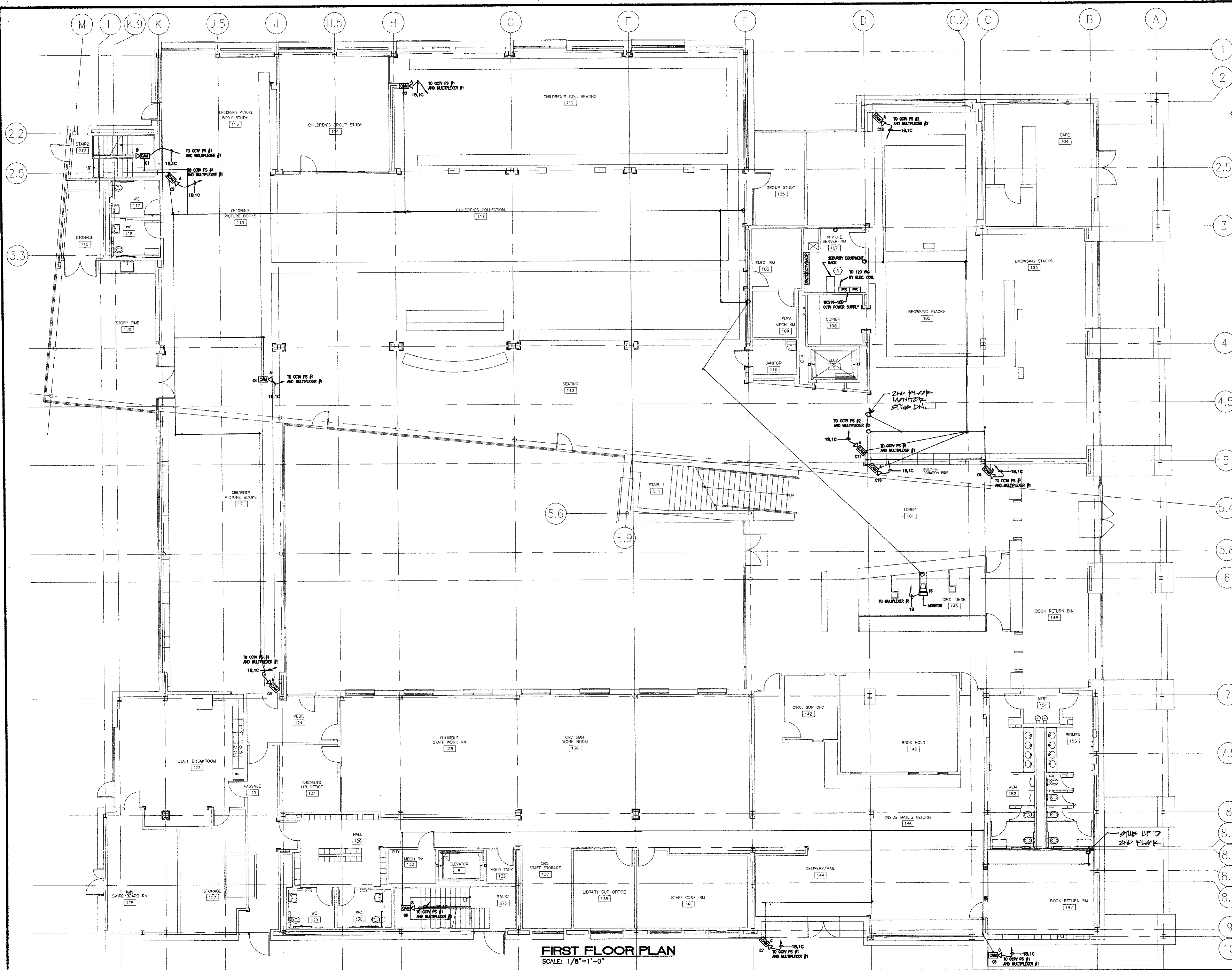
CCTV CAMERA NO.	MULTIPLEX NO.2 TERMINAL NO. (INPUTS)	POWER SUPPLY NO.2 TERMINAL NO.	TYPE OF CAMERA/PELCO MODEL
11	1	1	ICS100-CR/3A
12	2	2	ICS100-CR/3A
13	3	3	ICS100-CR/3A
14	4	4	ICS100-CR/3A
15	5	5	ICS100-CR/3A
16	6	6	ICS100-CR/3A
17	7	7	ICS100-CR/3A
18	8	8	ICS100-CR/3A
19	9	9	ICS100-CR/3A

CCTV WIRING DETAILS
 SCALE: N.T.S.

CCTV RISER DIAGRAM
 SCALE: N.T.S.



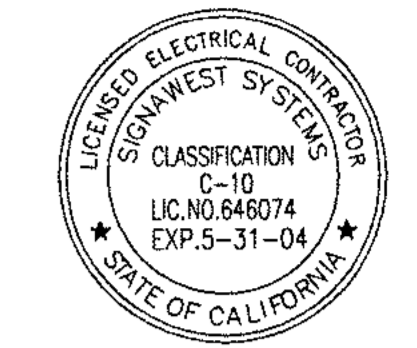
DETAILS
 SCALE: N.T.S.



FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTES
① INSTALL 19" VIDEO MONITOR AND MULTIPLEXER SWITCHER IN SECURITY EQUIPMENT RACK

SW
SIGNWEST SYSTEMS
7000 CENTRAL AVE. SUITE D
NEWARK, CA. 94560-4205
PHONE: 510/785-9999
FAX: 510/785-9644
LIC NO. 646074



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Electrical Contractor :
ELOOR ELECTRIC
3310 Bassett Street
Santa Clara, CA 95054
Phone: (408) 986-1320
Fax: (408) 986-1324

Approvals :

Revision :

Project Title :
CUPERTINO CMC CENTER
10400 Torre Avenue
Cupertino, CA 95014

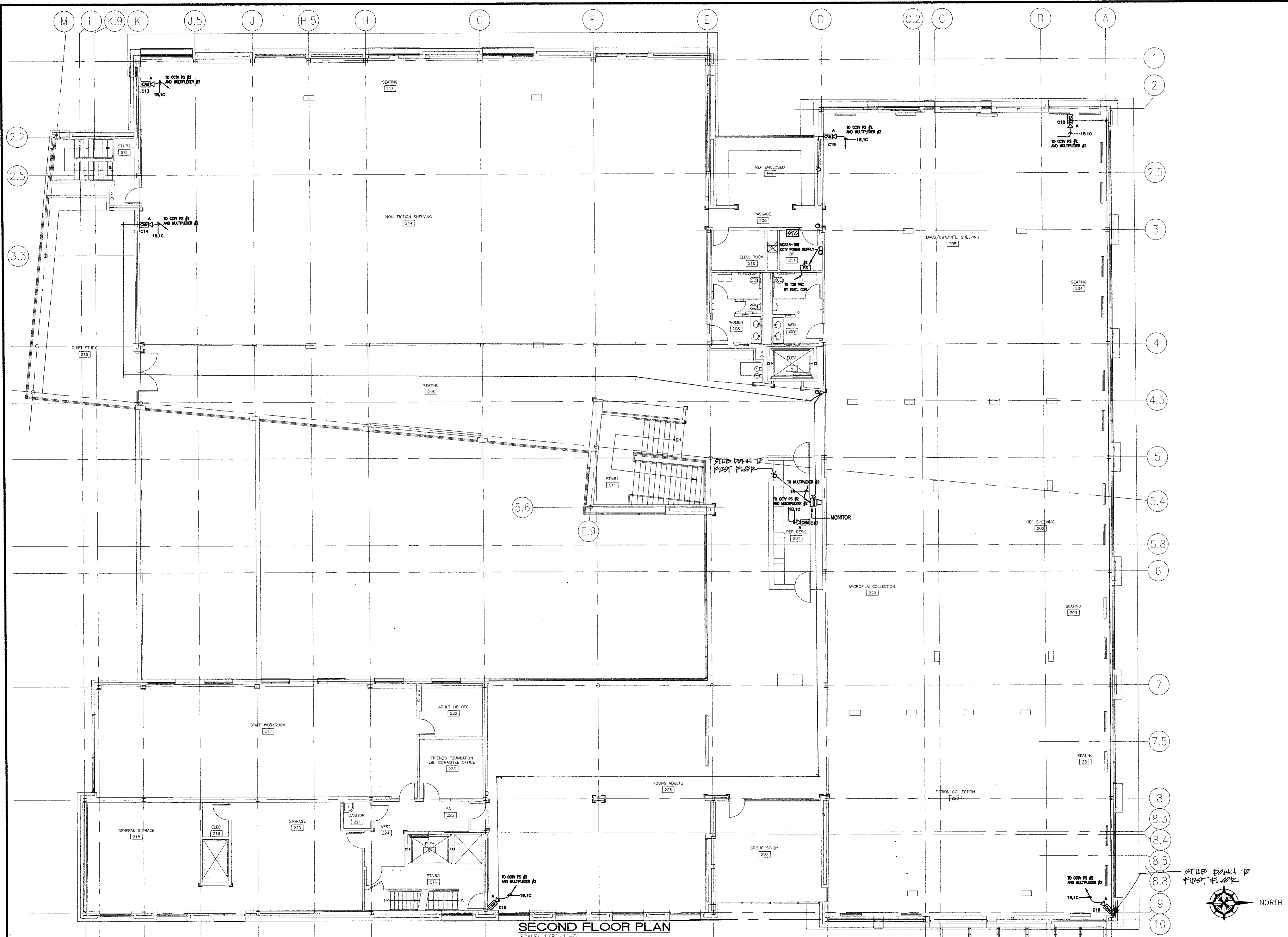
Sheet Title :
CCTV SYSTEMS

LIBRARY FIRST FLOOR PLAN

SWS No. : 2003-898
File No. : 898-3.01
Scale : 1/8"=1'-0"
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Date : 11-13-2003

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SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

SW
SIGNAWEST SYSTEMS
7300 CENTRAL AVE. SUITE D
NEWARK, CA, 94580-4205
PHONE: 510/795-9999
FAX: 510/795-9544
LIC. NO. 646074

LICENSED ELECTRICAL CONTRACTOR
SIGNAWEST SYSTEMS
CLASSIFICATION
C-10
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EXP. 5-31-04
STATE OF CALIFORNIA

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ELCOR ELECTRIC
3310 Bassett Street
Santa Clara, CA 95054
Phone: (408) 986-1320
Fax: (408) 986-1324

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Cupertino, CA 95014

Sheet Title :

CCTV SYSTEMS

LIBRARY SECOND FLOOR PLAN

SWS No. : 2003-898
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Checked by : LEO
Date : 11-13-2003

Sheet Number :

CTV3.02

GENERAL NOTES

- THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL BE MADE IN COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
 - NFPA 70, 1999 EDITION, NATIONAL ELECTRICAL CODE, WITH CALIFORNIA AMENDMENTS.
 - NFPA 72, NATIONAL FIRE ALARM CODE, 1999 EDITION WITH CALIFORNIA AMENDMENTS.
 - CALIFORNIA ELECTRIC CODE, ARTICLE 760.
 - CALIFORNIA CODE OF REGULATIONS, TITLE 24.
 - CALIFORNIA FIRE CODE, ARTICLE 10, 2001
 - CALIFORNIA BUILDING CODE, 2001 EDITION, VOLUME 1, CHAPTER 35 & UNIFORM BUILDING CODE, 1998 EDITION, VOLUME 1, CHAPTER 35.
 - UNDERWRITERS LABORATORIES, INC.
 - ENFORCING AUTHORITY HAVING JURISDICTION.
 - PUBLIC SAFETY (TITLE 19), STATE FIRE MARSHALL
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SHOP DRAWINGS AND SPECIFICATIONS, INCLUDING VERIFICATION OF CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY CUPERTINO FIRE PREVENTION BUREAU.
- FIRE ALARM MANUAL PULL STATIONS SHALL BE MOUNTED +48 INCHES ABOVE FINISHED FLOOR, MEASURES TO OPERABLE PART.
- FIRE ALARM VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SO THE ENTIRE LENS IS WITHIN 80-96" ABOVE FLOOR FINISHED.
- FIRE ALARM AUDIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED +90 INCHES ABOVE FINISHED FLOOR, MEASURED TO THE TOP.
- FIRE ALARM COMBINATION AUDIBLE/VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SO THE ENTIRE LENS IS WITHIN 80-96" INCHES ABOVE FINISHED FLOOR.
- FIRE ALARM WIRING SHALL BE INSTALLED IN METAL RACEWAY 3/4" MINIMUM UNLESS OTHERWISE NOTED.
- SMOKE DETECTORS SHALL NOT BE LOCATED IN DIRECT AIR-FLOW NOR CLOSER THAN THREE (3) FEET FROM AN AIR DIFFUSER. (NFPA 72, 5-3.6.6.2)
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN UP OF ALL TRADES IS COMPLETE AND FINAL. (NFPA 72, 5-3.6.1.3)
- A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS AND/OR DEVICES SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ANY DISCREPANCIES BETWEEN THE APPROVED DRAWINGS AND THE CODES OR STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE AUTHORITY HAVING JURISDICTION'S INSPECTOR OF RECORD.
- A MINIMUM OF FORTY-EIGHT (48) HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TESTING.
- RECORD OF COMPLETION SHALL BE PREPARED IN COMPLIANCE WITH CHAPTER 1 OF NFPA 72, 1999 EDITION BY THE INSTALLING CONTRACTOR AND PRESENTED TO THE INSPECTOR OF RECORD UPON COMPLETION OF THE FIRE ALARM INSTALLATION.
- THE LOCAL AUTHORITY HAVING JURISDICTION'S INSPECTOR OF RECORD SHALL WITNESS THE FINAL TESTING OF THE FIRE ALARM SYSTEM.
- AUDIBLE DEVICE(S) TO BE AT LEAST 15 dBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT MINIMUM HEARING DISTANCE.
- VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND.
- CLASS B STYLE 4 FOR SLC LOOP AND CLASS B STYLE Y FOR NOTIFICATION CIRCUIT SHALL BE PROVIDED.
- AUDIBLE DEVICES SHALL SOUND THE THREE PULSE TEMPORAL PATTERN.
- ROUTE WIRING CONTINUOUS BETWEEN DEVICES WITHOUT SPLICES.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
- ALL DUCT DETECTORS MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE INSTALLED IN NEMA 3R WEATHERPROOF ENCLOSURE. (BY ELECTRICAL CONTRACTOR)
- MANUAL FIRE ALARM SYSTEM SHALL BE PROVIDED.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ANOC	REMOTE FIRE ALARM ANNUNCIATOR
C	CONDUIT
CLK	CLOCK
CSFM	CALIFORNIA STATE FIRE MARSHALL
CL	CENTER LINE
DN	DOWN
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
IC	INTERCOM
MH	MANHOLE
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PA	PUBLIC ADDRESS
PB	PULL BOX
SLC	SIGNALING LINE CIRCUIT
(SMD)	SUPPLIED BY MECHANICAL DIVISION
SPK	SPEAKER
STC	SIGNAL TERMINAL CABINET
TB	TERMINAL BLOCK
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MFG.	MODEL NO.	ROUGH-IN	MT HEIGHT	CSFM LISTING #	CSFM LISTING #
FA	FIRE ALARM CONTROL PANEL, ANALOG	NOTIFIER	AFF-200	SBB-4X	+60" AFF TO TOP	7165-0028:164	
VE	EMERGENCY VOICE EVACUATION CONTROL PANEL	NOTIFIER	VEC 25/50	W/UNIT	+60" AFF TO TOP	6911-0028:191	
PS	REMOTE POWER SUPPLY WITH BATTERY CHARGERS	WHEELLOCK	PS-12/24-B	W/UNIT	+60" AFF TO TOP	7315-0785:149	
FA	FIRE ALARM ANNUNCIATOR PANEL	NOTIFIER	LCD-80	ABF-1DB	AS REQUIRED	7120-0028:156	
DA	DIGITAL ALARM COMMUNICATOR	NOTIFIER	UDACT	ABS-BR	AS REQUIRED	7300-0028:174	
SM	SYNCHRONIZATION MODULE, DUAL	WHEELLOCK	DSM-24R	4" SQ	AS REQUIRED	7300-0785:132	
CM	CONTROL MODULE, ADDRESSABLE	NOTIFIER	FCM-1	4" SQ DEEP	AS REQUIRED	7300-0028:202	
RM	RELAY MODULE, ADDRESSABLE	NOTIFIER	FRM-1	4" SQ DEEP	AS REQUIRED	7300-0028:202	
MM	MONITOR MODULE, ADDRESSABLE	NOTIFIER	FMM-101	4" SQ DEEP	AS REQUIRED	7300-0028:202	
ET	MANUAL PULL STATION EXTERIOR	NOTIFIER	NBG-12LX	4" SQ. W/1GA	+48" AFF CL	7150-0028:199	
DD	DUCT DETECTOR, HOUSING, PHOTO, ADDRESSABLE	NOTIFIER	FSD-751RP	AS REQUIRED	AT DUCT	3240-0028:205	
SD	SMOKE DETECTOR/BASE, PHOTO, ADDRESSABLE	NOTIFIER	FSP-851/B710LP	4" OCTAGON	CEILING	7272-0028:206	7300-0028:173
HD	HEAT DETECTOR/BASE, FIXED, ROR	NOTIFIER	FST-851R/B710LP	4" OCTAGON	CEILING	7270-0028:196	7300-0028:173
HC	COMBINATION HORN/STROBE, 'C' DENOTES CANDELA	WHEELLOCK	NS-24MCW-FR	4" SQ.	+80" AFF TO BOTTOM	7125-0785:142	
SC	STROBE, 'C' DENOTES CANDELA	WHEELLOCK	RSS-24MCW-FR	4" SQ.	+80" AFF TO BOTTOM	7125-0785:141	
SE	SPEAKER STROBE, WHITE, 'C' DENOTE CANDELA	WHEELLOCK	E-70-24MCW-FR	4" SQ.	+80" AFF TO BOTTOM	7125-0785:152	
EB	EXTERIOR BELL 10"	WHEELLOCK	MB-G10-24-R	WBB-R	+96" AFF BOTTOM	7135-0785:113	
TS	VALVE TAMPER SWITCH	(SMD)					
FS	WATER FLOW SWITCH	(SMD)					
PV	POST INDICATOR VALVE	(SMD)					
FA	FIRE ALARM TERMINAL CABINET	BY OTHERS					

CABLE/WIRE SCHEDULE

TYPE	MFG.	MODEL NO.	DESCRIPTION	INSTALLATION	FUNCTION	CSFM LISTING #
-A-	WEST PENN	991	CABLE, 1 PR 16 AWG WITH O/A SHIELD, TYPE FPL	CONDUIT	FA SLC LOOP (BLDG)	7161-0859:101
-B-	WEST PENN	975	CABLE, 1 PR 18 AWG SOLID, O/A SHIELD, TYPE FPL	CONDUIT	FA SPEAKER/STROBE (BLDG)	7161-0859:101
-C-		THHN/TWHN	2#14 AWG (BLACK-RED)	CONDUIT	FA NOTIFICATION (BLDG)	
-E-		THHN/TWHN	2#14 AWG (YELLOW-VIOLET)	CONDUIT	DC POWER	
-F-	WEST PENN	977	CABLE, 2 PR 18 AWG WITH O/A SHIELDED TYPE FPLR	CONDUIT	REMOTE ANNUNCIATOR	7161-0859:101

SEQUENCE OF OPERATION	OUTPUT												
	DISPLAY GENERAL ALARM SIGNAL AT FACP	INDICATE AREA AT FACP	DISPLAY SUPERVISORY SIGNAL AT FACP	ACTIVATE NOTIFICATION APPLIANCE SIGNALS	NOTIFY UL APPROVED MONITORING STATION	DISPLAY TROUBLE SIGNAL AT FACP	INDICATE AREA AT REMOTE ANNUNCIATOR	SHUT DOWN ASSOCIATED AIR HANDLING UNIT	CLOSE ASSOCIATED FIRE SMOKE DAMPER	RECALL ELEVATOR TO FIRST FLOOR	RECALL ELEVATOR TO ALTERNATE FLOOR	ACTIVATE ELEVATOR SHUNT TRIP BREAKER	RELEASE DOOR HOLDER ON ASSOCIATED FLOORS
PULL STATION	X	X		X	X		X						
SMOKE DETECTOR	X	X		X	X		X	X					X
DUCT DETECTOR	X	X		X	X		X	X					
ELEVATOR LOBBY SMOKE DETECTOR, FIRST FLOOR	X	X		X	X		X			X			
ELEVATOR LOBBY SMOKE DETECTOR SECOND FLOOR	X	X		X	X		X			X			
SMOKE DETECTOR ON TOP OF ELEV. HOISTWAY AND MACHINE ROOM	X	X		X	X		X			X			
HEAT DETECTOR ON TOP OF ELEV. HOISTWAY AND MACHINE ROOM	X	X		X	X		X					X	
WATERFLOW SWITCH	X	X		X	X		X						
VALVE TAMPER SWITCH		X	X	X	X		X						
PV		X	X	X	X		X						
OPEN, GROUND OR SHORT IN WIRING					X	X							
POWER FAILURE					X	X							
LOW BATTERY					X	X							

CUPERTINO CIVIC CENTER

CUPERTINO, CA

SW
SIGNWEST SYSTEMS
 7000 CENTRAL AVE. SUITE D
 NEWARK, CA 94560-4205
 PH: 910/795-9999
 FAX: 910/795-9544
 LIC NO. 846074



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 Santa Clara, CA 95054
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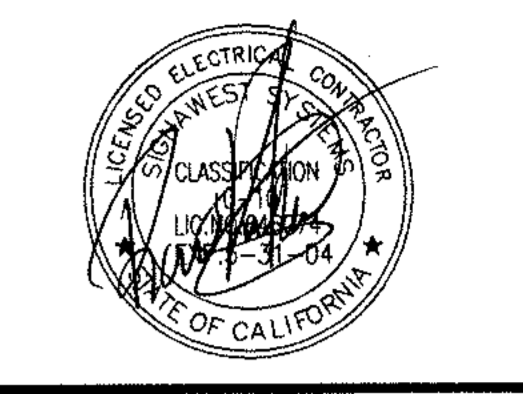
Revision :
 12-15-03 ENGINEERS PLAN REVIEW / COMMENT

Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :
FIRE ALARM SYSTEM

TITLE SHEET
 SWS No. : 2003-898
 File No. : 898-1.01
 Scale : N.T.S.
 Drawn by : Y.M.
 Checked by : LEO
 Date : 10-22-2003

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FA1.01



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Electrical Contractor:
ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals:

Revision:
 12-15-03 ENGINEERS PLAN REVIEW/ COMMENT

Project Title:
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title:
FIRE ALARM SYSTEM

BATTERY AND VOLTAGE DROP CALCULATION

SWS No.: 2003-898
 File No.: 898-1.02
 Scale: N.T.S.
 Drawn by: Y.M.
 Checked by: LEO
 Date: 10-22-2003

Sheet Number:

FA1.02

Cupertino Civic Center 10400 Torre Avenue Cupertino, CA 95014				
EQUIPMENT SCHEDULE				
QTY	MANUFACTURER	MODEL	DESCRIPTION	QTY NUMBER
2	Notifier	BEAPP-200	APP-200 Basic Equipment	7185-0028-164
2	Notifier	SBB-4X	Back Box, AFP-200	7185-0028-164
3	Wheelock	DSM-24R	SYNC Module, Dual circuit	7300-0785-132
4	Power Sonic	PS-1270	Battery, 12 Volt, 7.0 AH	
1	Notifier	VEC-2550	Emergency Voice Evacuation Control Panel	8911-0028-191
2	Power Sonic	PS-12120	Battery, 12 Volt, 12.0 AH	
2	Notifier	LCD-80	Annunciator, LCD	7120-0028-198
2	Notifier	ABF-10B	Back box W/Dorr, Annunciator, 1 Module, Flush	7300-0028-174
2	Notifier	UDACT	Digital Alarm Communicator	
2	Notifier	ABS-8R	Back box, Uduct, Surface	
2	Office		Patch Cord	
13	Notifier	NBG-12LX	Pull Station, Addressable	7190-0028-199
10	Notifier	FSP-851	Smoke Detector Head, Photoelectric, Analog	7272-0028-206
4	Notifier	FST-851R	Heat Detector, Flood/ROF, Analog	7270-0028-198
23	Notifier	B710LP	Base, Detector, Addressable	7300-0028-173
8	Notifier	FRM-1	Relay, Addressable	7300-0028-202
7	Notifier	FRM-101	Monitor Module, Addressable, Mnt	7300-0028-202
8	Notifier	FSD-751RP	Detector Housing w/ Smoke Detector, Relay, Addressable	3240-0028-206
98	Notifier	ST-3	Sampling Tube, 2 - 4 R. Duct	3240-1208-195
36	Wheelock	RSS-24MCW-FR	Strobe, Non-Sync/Sync, 12 Candela Candela	7125-0785-141
23	Wheelock	NS-24MCW-FR	Horn/Strobe, Non-Sync/Sync, 12 Candela Candela	7125-0785-142
3	Wheelock	ASWP-2475W-FR	Horn/Weatherproof, 75 Candela	7125-0785-131
3	Wheelock	WPBB-R	Back Box, Weatherproof	
10	Wheelock	E-70-24MCW-FW	Speaker/Strobe, White	7125-0785-152
1	Wheelock	MB-G10-24R	Bell, 10 Inch	7135-0785-113
1	System Sensor	WBB-R	Back Box, Exterior	
AS REQ.	West Penn	991	Cable, 1 PR 16 AWG Solid, O/A shield, Type PFL/Red/Black	7161-0859-101
AS REQ.	West Penn	975	Cable, 1 PR 18 AWG Solid, O/A shield, Type PFL	7161-0859-101
AS REQ.	West Penn	977	Cable, 2 PR 18 AWG Solid, O/A shield, Type PFL	7161-0859-101
AS REQ.	THAN/TWHN	#14 Solid, Black		
AS REQ.	THAN/TWHN	#14 Solid, Red		
AS REQ.	THAN/TWHN	#14 Solid, Yellow		
AS REQ.	THAN/TWHN	#14 Solid, Violet		

STANDBY BATTERY CALCULATION				
898.1 Library Building ID# 1 REV. NO.				
Cupertino Civic Center 10400 Torre Avenue Cupertino, CA 95014				
24.0 HOURS SUPERVISION FIRE ALARM CONTROL PANEL - CIRCUITS 1, 2, 3 & 4				
QTY	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CURRENT EXTENSION
1	Notifier	BEAPP-200	APP-200 Basic Equipment	0.1000 0.1000
2	Wheelock	DSM-24R	SYNC Module, Dual circuit	0.0004 0.0016
4	Notifier	FRM-101	Monitor Module, Addressable, Mnt	0.0004 0.0016
10	Notifier	FRM-1	Relay, Addressable	0.0003 0.0037
17	Notifier	FSP-851	Smoke Detector Head, Photoelectric, Analog	0.0003 0.0043
4	Notifier	FST-851R	Heat Detector, Flood/ROF, Analog	0.0003 0.0012
8	Notifier	FSD-751RP	Detector Housing w/ Smoke Detector, Relay, Addressable	0.0080 0.1680
8	Notifier	NSG-12LX	Pull Station, Addressable	0.0002 0.0018
16	Wheelock	RSS-24MCW-FR	Strobe, Non-Sync/Sync, 12 Candela Candela	0.0000 0.0000
10	Wheelock	NS-24MCW-FR	Horn/Strobe, Non-Sync/Sync, 12 Candela Candela	0.0000 0.0000
2	Wheelock	ASWP-2475R-FR	Horn/Weatherproof, 75 Candela	0.0000 0.0000
TOTAL:				0.2875
SUPERVISION CURRENT:				24.0 X 0.2875 6.9188
ALARM CURRENT:				0.0633 X 0.5835 0.3684
BATTERY PROVIDED:				12.0000
RESERVE - AMP HOURS:				1.8116
RESERVE - PERCENTAGE:				42.79%

STANDBY BATTERY CALCULATION				
898.1 Community Hall ID# 1 REV. NO.				
Cupertino Civic Center 10400 Torre Avenue Cupertino, CA 95014				
24.0 HOURS SUPERVISION FIRE ALARM CONTROL PANEL - CIRCUITS 1, 2, 3 & 4				
QTY	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CURRENT EXTENSION
1	Notifier	BEAPP-200	APP-200 Basic Equipment	0.1000 0.1000
2	Wheelock	DSM-24R	SYNC Module, Dual circuit	0.0004 0.0016
4	Notifier	FRM-101	Monitor Module, Addressable, Mnt	0.0004 0.0016
10	Notifier	FRM-1	Relay, Addressable	0.0003 0.0037
17	Notifier	FSP-851	Smoke Detector Head, Photoelectric, Analog	0.0003 0.0043
4	Notifier	FST-851R	Heat Detector, Flood/ROF, Analog	0.0003 0.0012
8	Notifier	FSD-751RP	Detector Housing w/ Smoke Detector, Relay, Addressable	0.0080 0.1680
8	Notifier	NSG-12LX	Pull Station, Addressable	0.0002 0.0018
16	Wheelock	RSS-24MCW-FR	Strobe, Non-Sync/Sync, 12 Candela Candela	0.1810 2.7150
10	Wheelock	NS-24MCW-FR	Horn/Strobe, Non-Sync/Sync, 12 Candela Candela	0.1880 1.8800
2	Wheelock	ASWP-2475R-FR	Horn/Weatherproof, 75 Candela	0.3480 0.3480
TOTAL:				3.2686
SUPERVISION CURRENT:				24.0 X 3.2686 78.0464
ALARM CURRENT:				0.0633 X 1.8868 0.1197
BATTERY PROVIDED:				7.0000
RESERVE - AMP HOURS:				3.1282
RESERVE - PERCENTAGE:				44.83%

VOLTAGE DROP CALCULATION								
SW No.: 898 Library Circuit No.: N1								
Project: Cupertino Civic Center								
10400 Torre Avenue								
Cupertino, CA 95014								
DESCRIPTION	DIST	DEVICE CURRENT	WIRE AMP	CH. DISTANCE	VOLTAJE UNIFORM	% OF VOLTAGE DROP		
898.1								
Device N - 1	RSS-2418W-FR	STROBE - 18 CANDELA	20	0.080	14	23.78	20.0	0.12 %
Device N - 2	NS-2418W-FR	HORN/STROBE, 18 CANDELA FLUSH	20	0.072	14	23.58	20.0	1.88 %
Device N - 3	NS-2418W-FR	HORN/STROBE, 30 CANDELA FLUSH	80	0.274	14	23.20	20.0	2.90 %
Device N - 4	NS-2478W-FR	HORN/STROBE, 75 CANDELA FLUSH	20	0.186	14	23.21	20.0	3.27 %
Device N - 5	RSS-2418W-FR	STROBE - 18 CANDELA	70	0.280	14	22.86	20.0	4.36 %
Device N - 6	RSS-2418W-FR	STROBE - 15 CANDELA	20	0.080	14	22.80	20.0	4.84 %
Device N - 7	NS-2478W-FR	HORN/STROBE, 75 CANDELA FLUSH	70	0.186	14	22.80	20.0	6.87 %
Device N - 8	RSS-2418W-FR	STROBE - 15 CANDELA	40	0.080	14	22.87	20.0	6.87 %
Device N - 9	RSS-2418W-FR	STROBE - 15 CANDELA	70	0.080	14	22.82	20.0	6.80 %
Device N - 10	NS-2418W-FR	HORN/STROBE, 18 CANDELA FLUSH	110	0.272	14	22.21	20.0	7.47 %
Device N - 11	NS-2478W-FR	HORN/STROBE, 75 CANDELA FLUSH	12	0.156	14	22.19	20.0	7.83 %
Device N - 12	RSS-2418W-FR	STROBE - 15 CANDELA	80	0.080	14	22.10	20.0	7.89 %
Device N - 13	RSS-2418W-FR	STROBE - 15 CANDELA	80	0.080	14	22.11	20.0	7.88 %
Device N - 14	RSS-2418W-FR	STROBE - 15 CANDELA	40	0.080	14	22.10	20.0	7.90 %

FORMULA FOR CALCULATING VOLTAGE DROP IN A DC CIRCUIT
 OHM'S LAW: CURRENT (I) x RESISTANCE (R) = ELECTROMOTIVE FORCE (E) (I x R = E)

VOLTAGE DROP CALCULATION								
SW No.: 898 Library Circuit No.: N2								
Project: Cupertino Civic Center								
10400 Torre Avenue								
Cupertino, CA 95014								
DESCRIPTION	DIST	DEVICE CURRENT	WIRE AMP	CH. DISTANCE	VOLTAJE UNIFORM	% OF VOLTAGE DROP		
898.1								
Device N - 1	RSS-2478W-FR	STROBE - 75 CANDELA	70	0.133	14	23.49	20.0	2.34 %
Device N - 2	RSS-2478W-FR	STROBE - 75 CANDELA	40	0.133	14	23.30	20.0	3.32 %
Device N - 3	RSS-2430W-FR	STROBE - 30 CANDELA	60	0.081	14	22.91	20.0	4.84 %
Device N - 4	ASWP-2475R-FR	HORN/STROBE, 75 CANDELA WP	60	0.117	12	22.74	20.0	5.25 %
Device N - 5	RSS-2418W-FR	STROBE - 15 CANDELA	80	0.080	14	22.80	20.0	8.28 %
Device N - 6	NS-2430W-FR	HORN/STROBE, 30 CANDELA FLUSH	20	0.097	14	22.41	20.0	6.83 %
Device N - 7	NS-2478W-FR	HORN/STROBE, 75 CANDELA FLUSH	40	0.156	14	22.25	20.0	7.31 %
Device N - 8	RSS-2478W-FR	STROBE - 75 CANDELA	60	0.133	14	22.08	20.0	8.00 %
Device N - 9	NS-24110W-FR	HORN/STROBE, 110 CANDELA FLUSH	60	0.186	14	21.95	20.0	8.68 %
Device N - 10	RSS-2418W-FR	STROBE - 15 CANDELA	80	0.080	14	21.98	20.0	8.98 %
Device N - 11	NS-24110W-FR	HORN/STROBE, 110 CANDELA FLUSH	80	0.186	14	21.79	20.0	9.20 %
Device N - 12	RSS-2418W-FR	STROBE - 15 CANDELA	60	0.080	14	21.77	20.0	9.30 %
Device N - 13	RSS-2418W-FR	STROBE - 15 CANDELA	40	0.080	14	21.78	20.0	9.36 %

FORMULA FOR CALCULATING VOLTAGE DROP IN A DC CIRCUIT
 OHM'S LAW: CURRENT (I) x RESISTANCE (R) = ELECTROMOTIVE FORCE (E) (I x R = E)

VOLTAGE DROP CALCULATION								
SW No.: 898 Library Circuit No.: N6								
Project: Cupertino Civic Center								
10400 Torre Avenue								
Cupertino, CA 95014								
DESCRIPTION	DIST	DEVICE CURRENT	WIRE AMP	CH. DISTANCE	VOLTAJE UNIFORM	% OF VOLTAGE DROP		
898.1								
Device N - 1	RSS-2430W-FR	STROBE - 30 CANDELA	20	0.081	14	23.39	20.0	0.48 %
Device N - 2	RSS-2418W-FR	STROBE - 18 CANDELA	20	0.080	14	23.70	20.0	0.89 %
Device N - 3	NS-2430W-FR	HORN/STROBE, 30 CANDELA FLUSH	120	0.087	14	23.21	20.0	3.30 %
Device N - 4	RSS-2478W-FR	STROBE - 75 CANDELA	60	0.133	14	22.86	20.0	4.36 %
Device N - 5	RSS-2430W-FR	STROBE - 30 CANDELA	100	0.081	14	22.86	20.0	4.80 %
Device N - 6	RSS-2418W-FR	STROBE - 15 CANDELA	80	0.181	14	22.32	20.0	7.82 %
Device N - 7	NS-2430W-FR	HORN/STROBE, 30 CANDELA FLUSH	70	0.186	14	22.14	20.0	7.74 %
Device N - 8	NS-2430W-FR	HORN/STROBE, 30 CANDELA FLUSH	60	0.087	14	22.06	20.0	8.08 %
Device N - 9	RSS-2418W-FR	STROBE - 15 CANDELA	40	0.080	14	21.91	20.0	8.82 %
Device N - 10	NS-24110W-FR	HORN/STROBE, 110 CANDELA FLUSH	80	0.186	14	21.98	20.0	8.82 %

FORMULA FOR CALCULATING VOLTAGE DROP IN A DC CIRCUIT
 OHM'S LAW: CURRENT (I) x RESISTANCE (R) = ELECTROMOTIVE FORCE (E) (I x R = E)

STANDBY BATTERY CALCULATION				
898.1 Library Building ID# 2 REV. NO.				
Cupertino Civic Center 10400 Torre Avenue Cupertino, CA 95014				
24.0 HOURS SUPERVISION REMOTE NOTIFICATION CIRCUIT POWER SUPPLY - CIRCUITS 5, 6, 7 & 8				
QTY	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CURRENT EXTENSION
1	Wheelock	PS-12544	Power/Supply Charger	0.0750 0.0750
22	Wheelock	RSS-24MCW-FR	Strobe, Non-Sync/Sync, 12 Candela Candela	0.0000 0.0000
13	Wheelock	NS-24MCW-FR	Horn/Strobe, Non-Sync/Sync, 12 Candela Candela	0.0000 0.0000
1	Wheelock	ASWP-2475R-FR	Horn/Weatherproof, 75 Candela	0.0000 0.0000
TOTAL:				0.0750
SUPERVISION CURRENT:				24.0 X 0.0750 1.8000
ALARM CURRENT:				0.0688 X 0.2700 0.1858
STANDBY REQUIRED:				2.3225
BATTERY PROVIDED:				7.0000
RESERVE - AMP HOURS:				4.8775
RESERVE - PERCENTAGE:				68.2%

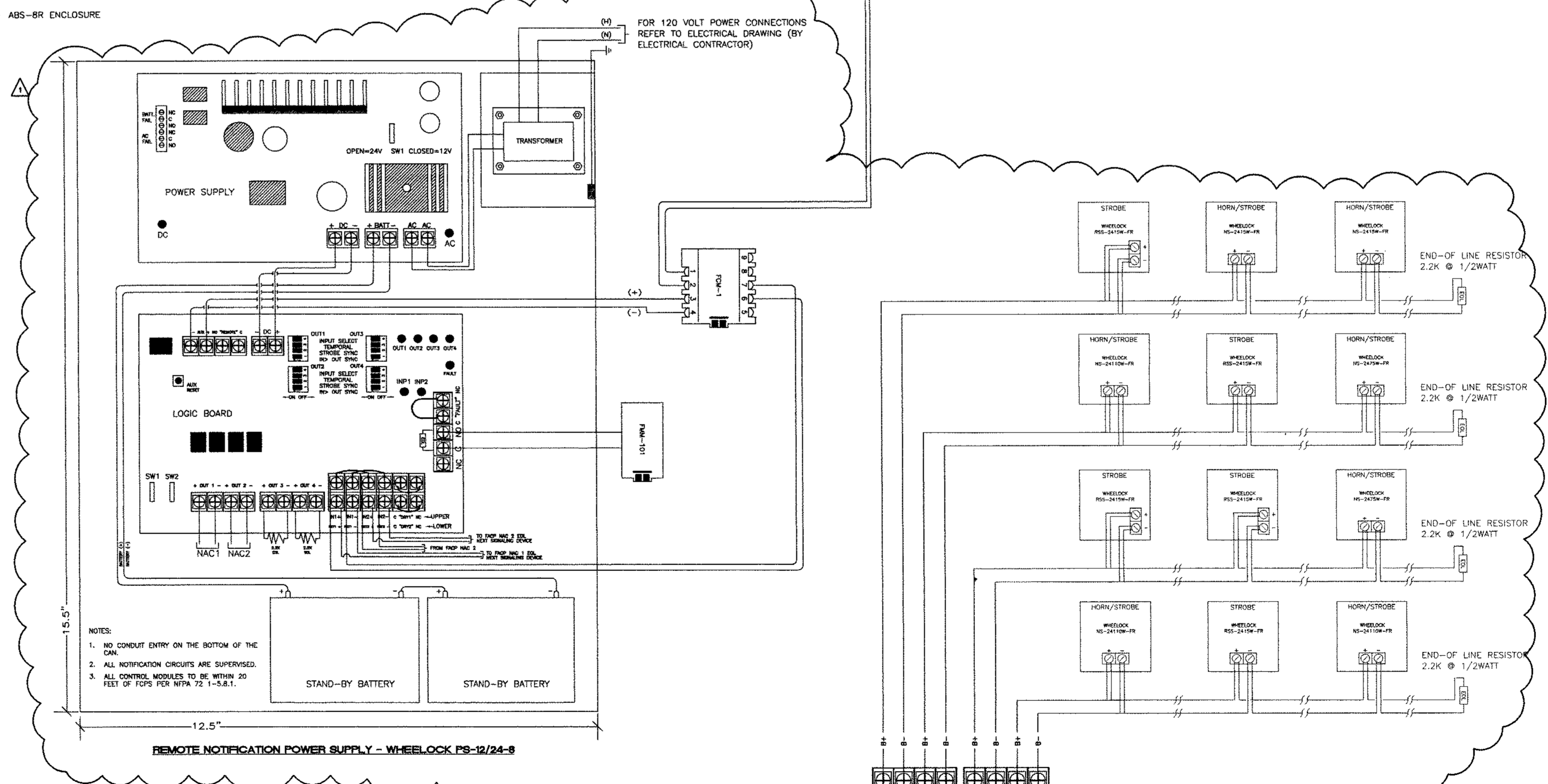
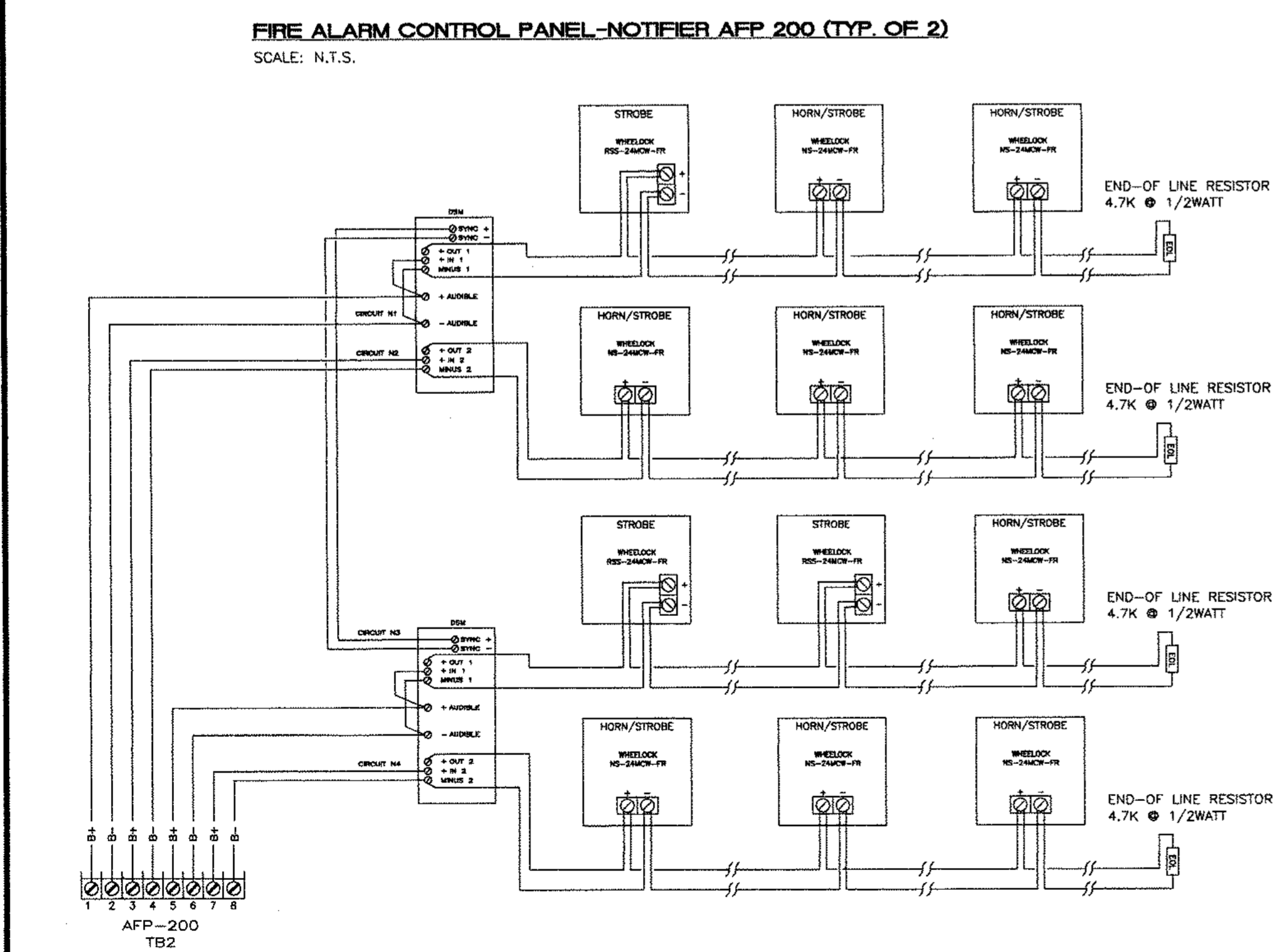
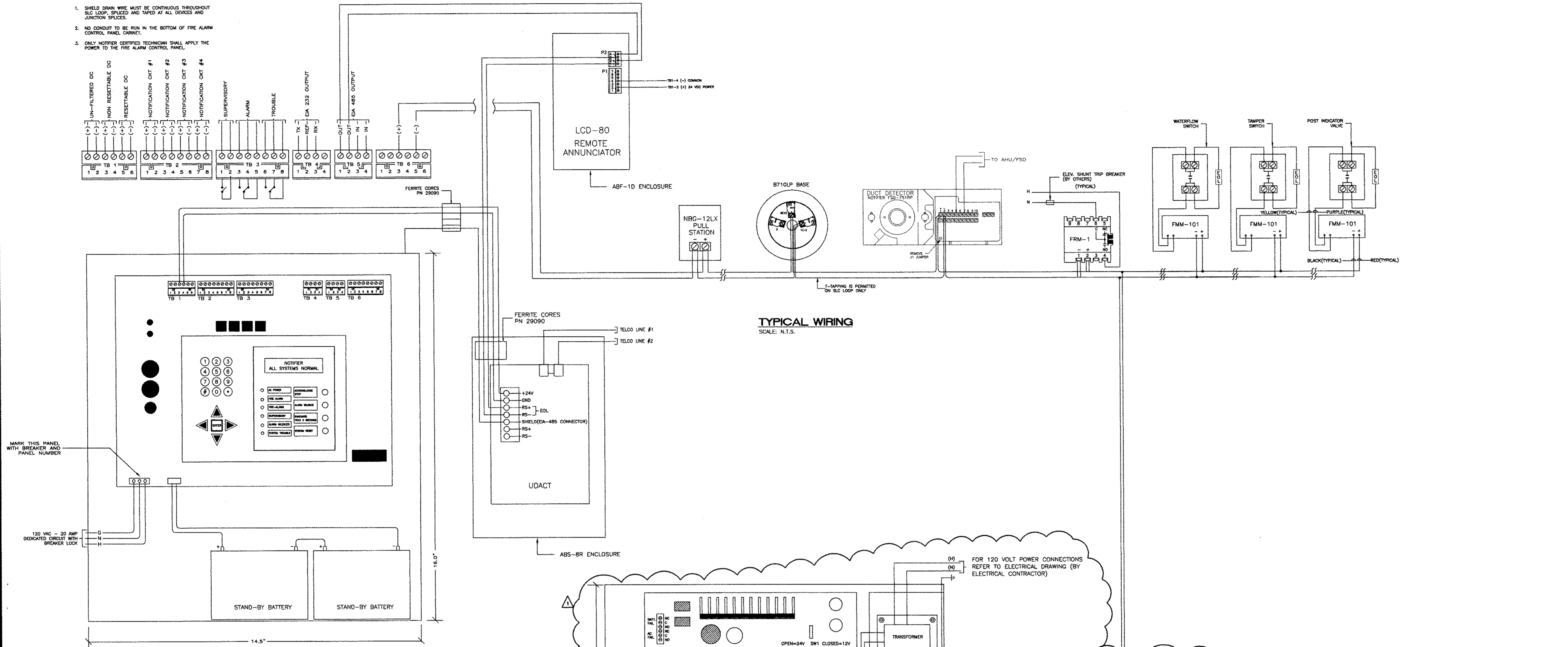
VOLTAGE DROP CALCULATION								
SW No.: 898 Library Circuit No.: N8								
Project: Cupertino Civic Center								
10400 Torre Avenue								
Cupertino, CA 95014								
DESCRIPTION	DIST	DEVICE CURRENT	WIRE AMP	CH. DISTANCE	VOLTAJE UNIFORM	% OF VOLTAGE DROP		
898.1								
Device N - 1	NS-2478W-FR	HORN/STROBE, 75 CANDELA FLUSH	60	0.186	14	23.62	20.0	1.87 %
Device N - 2	RSS-2478W-FR	STROBE - 75 CANDELA	60	0.133	14	23.43	20.0	2.36 %
Device N - 3	RSS-2430W-FR	STROBE - 30 CANDELA	60	0.081	14	23.26	20.0	3.07 %
Device N - 4	NS-24110W-FR	HORN/STROBE, 110 CANDELA FLUSH	60	0.186	14	23.19	20.0	3.85 %
Device N - 5	RSS-2418W-FR	STROBE - 15 CANDELA	40	0.080	14	23.07	20.0	3.87 %
Device N - 6	RSS-2418W-FR	STROBE - 15 CANDELA	30	0.050	14	23.02	20.0	4.28 %
Device N - 7	RSS-2418W-FR	STROBE - 15 CANDELA	30	0.050	14	22.98	20.0	4.25 %
Device N - 8	NS-2430W-FR	HORN/STROBE, 30 CANDELA FLUSH	30	0.087	14	22.94	20.0	4.40 %
Device N - 9	RSS-2478W-FR	STROBE - 75 CANDELA	60	0.133	14	22.90	20.0	4.88 %

FORMULA FOR CALCULATING VOLTAGE DROP IN A DC CIRCUIT
 OHM'S LAW: CURRENT (I) x RESISTANCE (R) = ELECTROMOTIVE FORCE (E) (I x R = E)

VOLTAGE DROP CALCULATION								
SW No.: 898 Library Circuit No.: N7								
Project: Cupertino Civic Center								
10400 Torre Avenue								
Cupertino, CA 95014								
DESCRIPTION	DIST	DEVICE CURRENT	WIRE AMP	CH. DISTANCE	VOLTAJE UNIFORM	% OF VOLTAGE DROP		
898.1								
Device N - 1	ASWP-2475R-FR	HORN/STROBE, 75 CANDELA WP	40	0.117	12	23.88	20.0	0.88 %
Device N - 2	RSS-2418W-FR	STROBE - 15 CANDELA	100	0.181	14	23.37	20.0	2.82 %
Device N - 3	NS							

NOTES:

- SHIELD DRIVEN WIRE MUST BE CONTINUOUS THROUGHOUT SLC LOOP. SPLICED AND TAPPED AT ALL DEVICES AND JUNCTION SPICES.
- NO CONDUIT TO BE RUN IN THE BOTTOM OF FIRE ALARM CONTROL PANEL CABINET.
- ONLY NOTIFIER CERTIFIED TECHNICIAN SHALL APPLY THE POWER TO THE FIRE ALARM CONTROL PANEL.



SW SIGNWEST SYSTEMS
7300 CENTRAL AVE. SUITE 10
NEWARK, CA 94560-4208
PH: 510/796-9999
FAX: 510/796-9544
LIC NO. 648074

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Electrical Contractor:
ELCOR ELECTRIC
3310 Bassett Street
Santa Clara, CA 95054
Phone: (408) 986-1320
Fax: (408) 986-1324

Approvals:

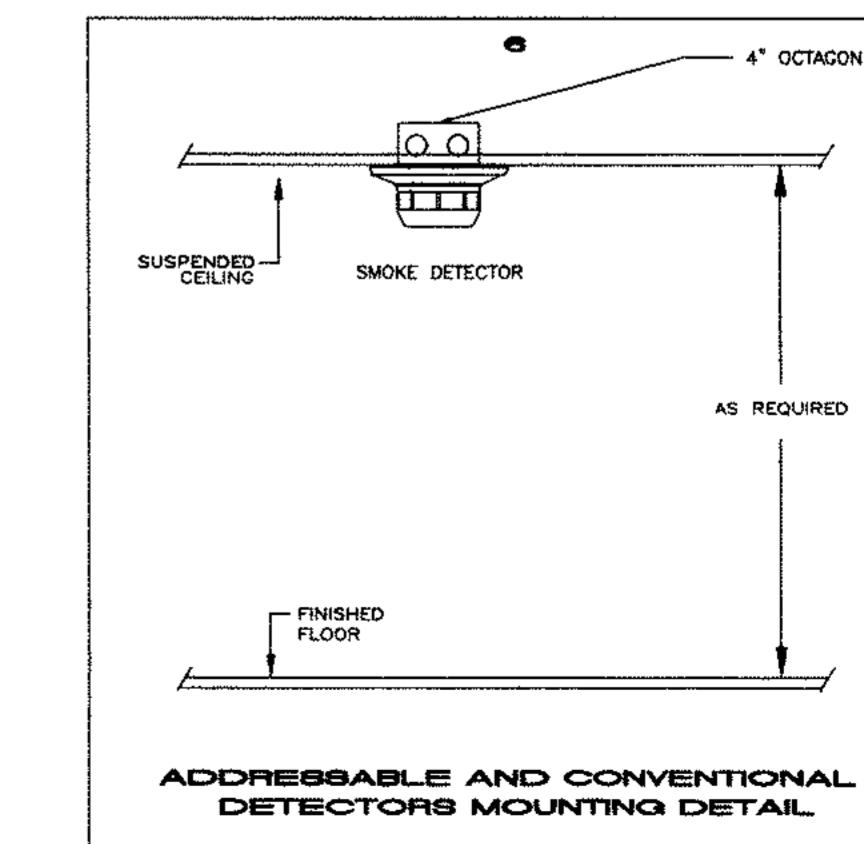
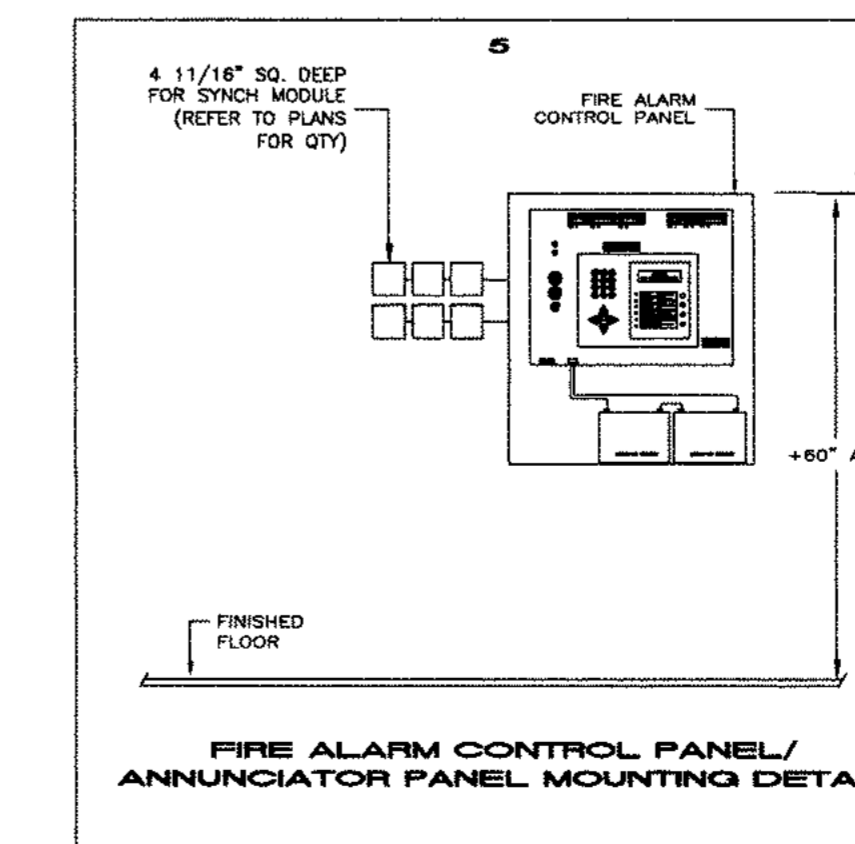
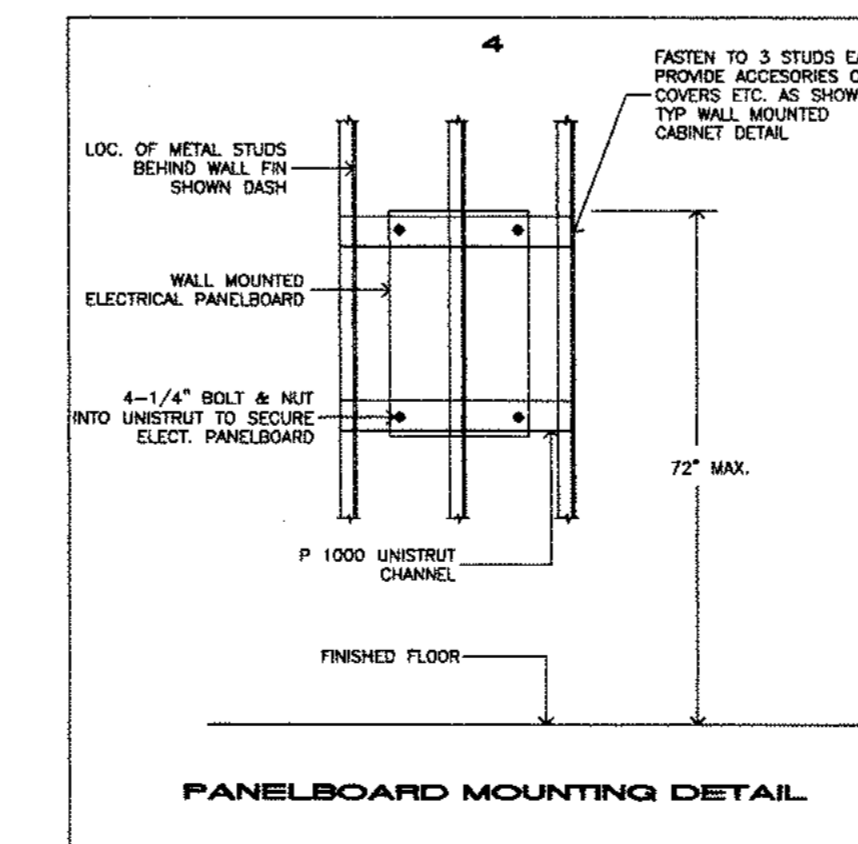
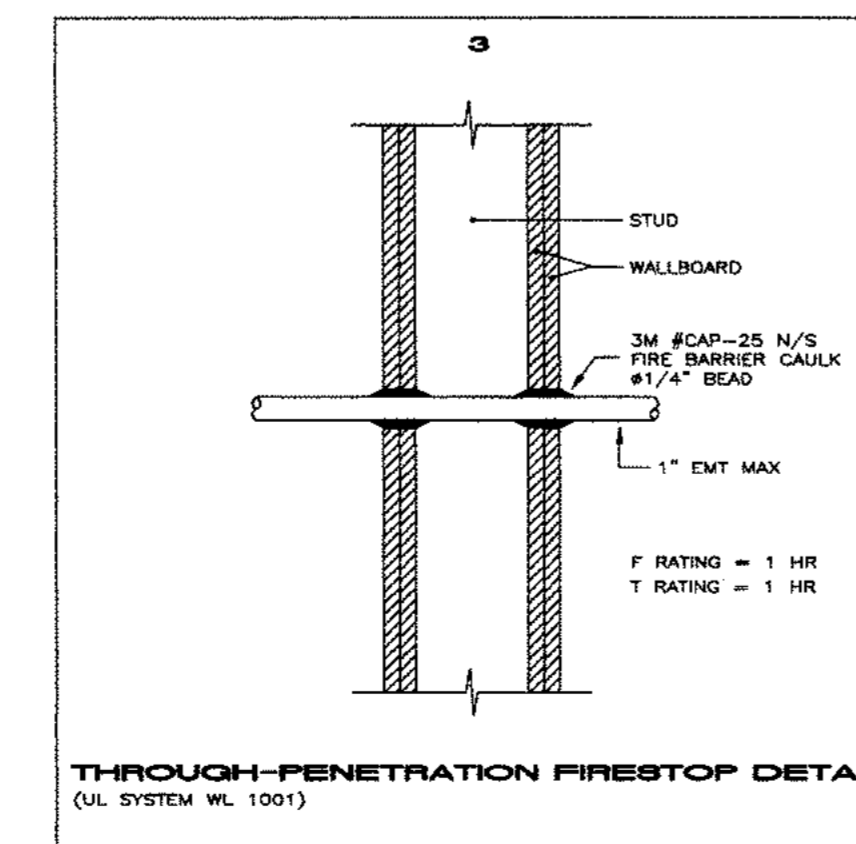
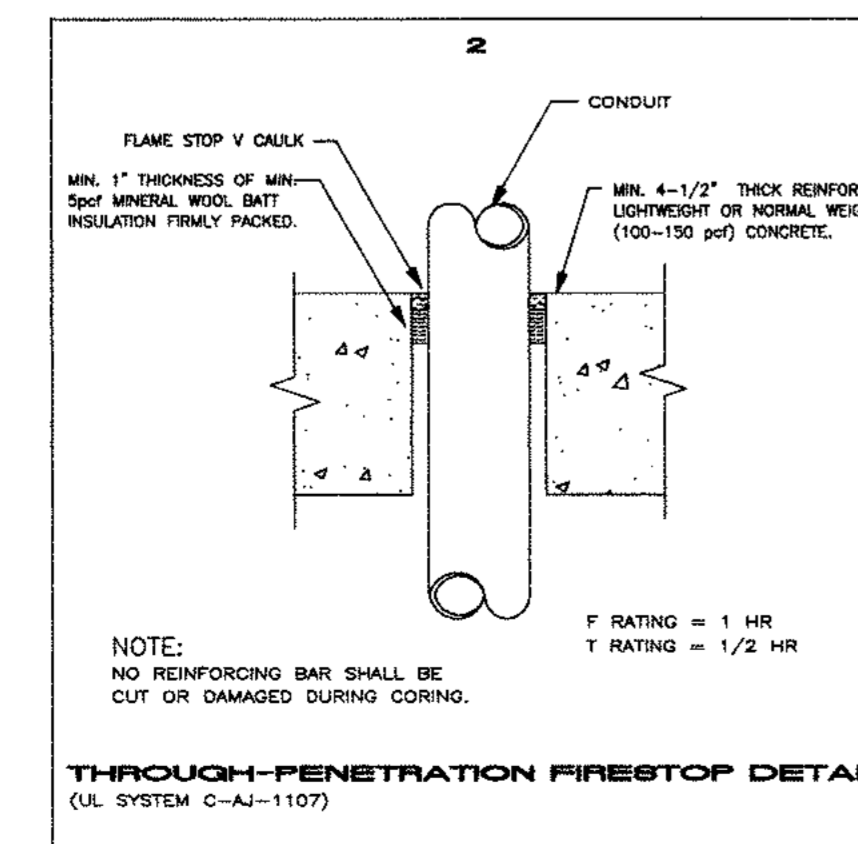
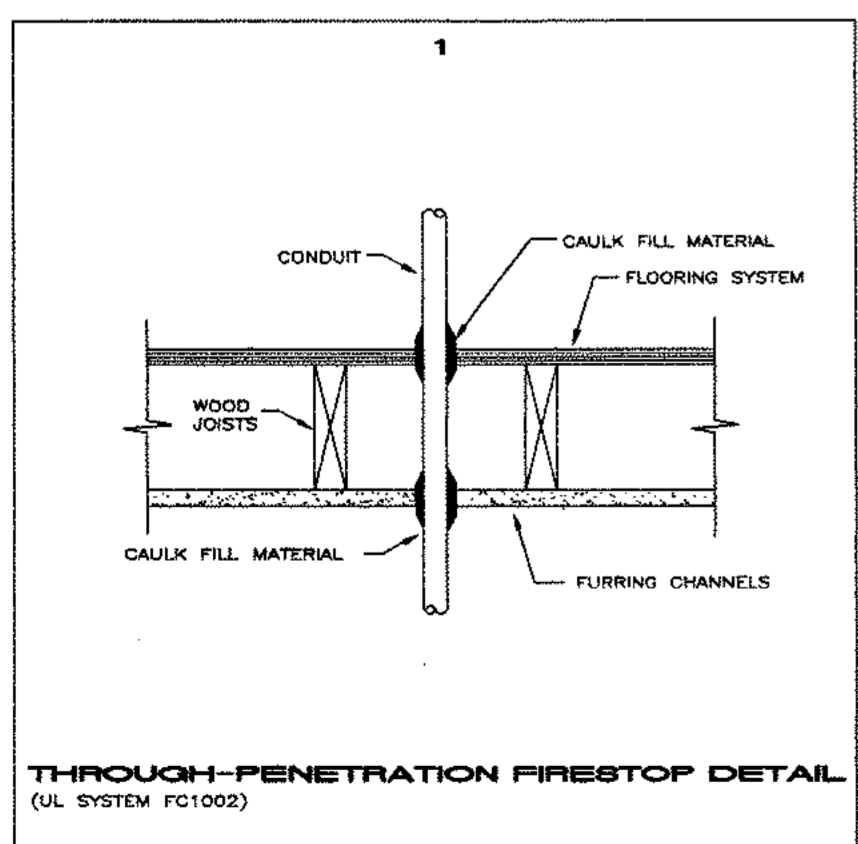
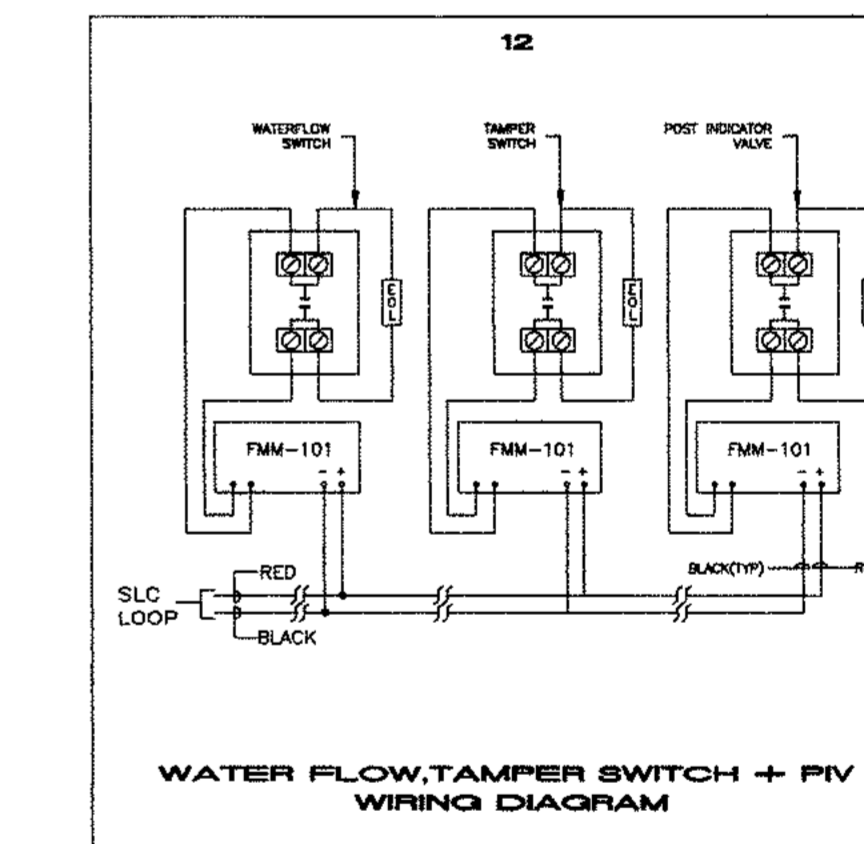
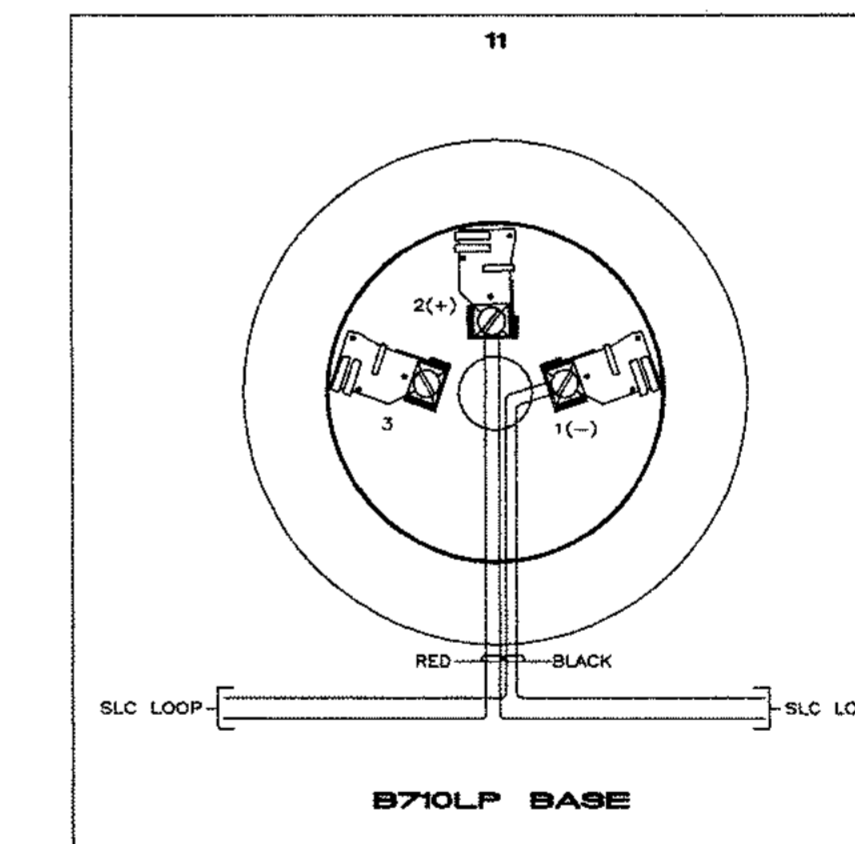
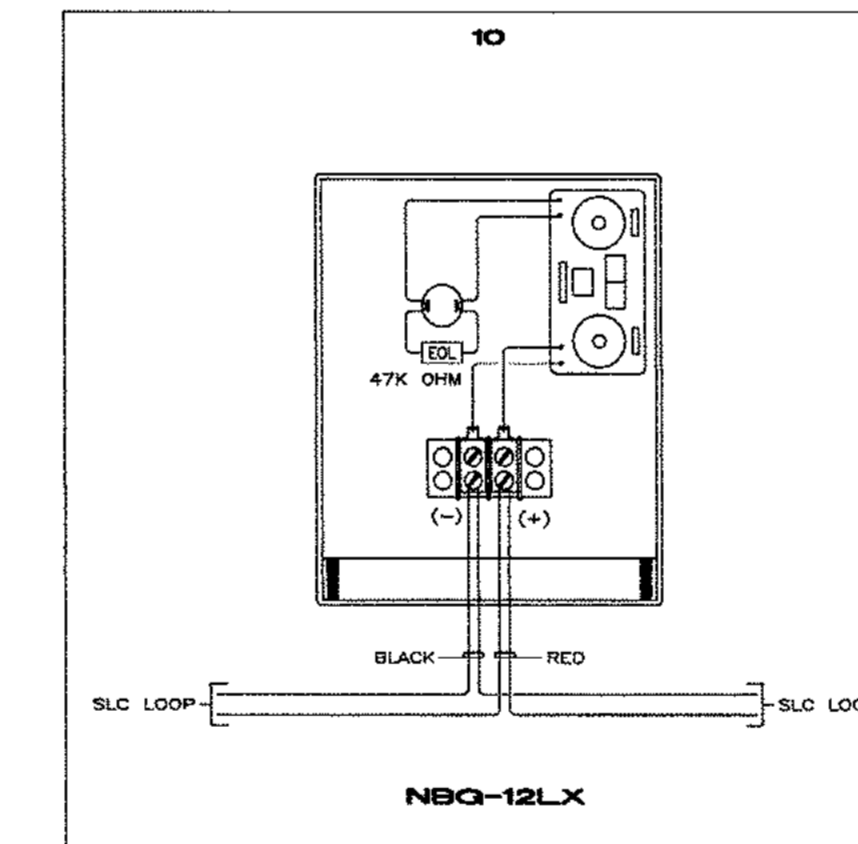
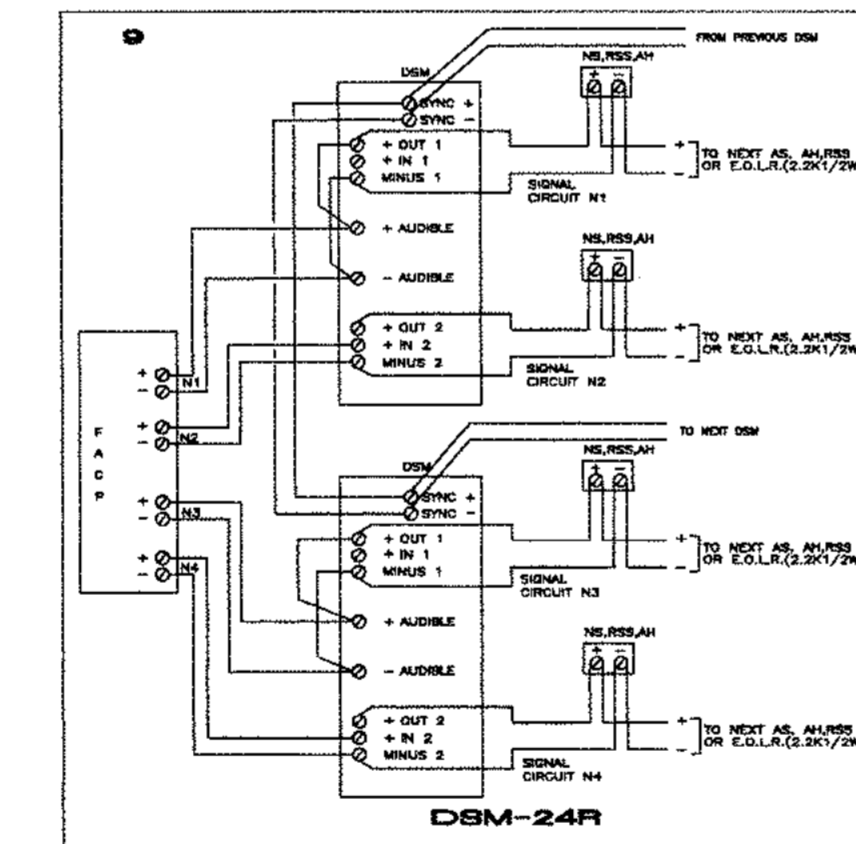
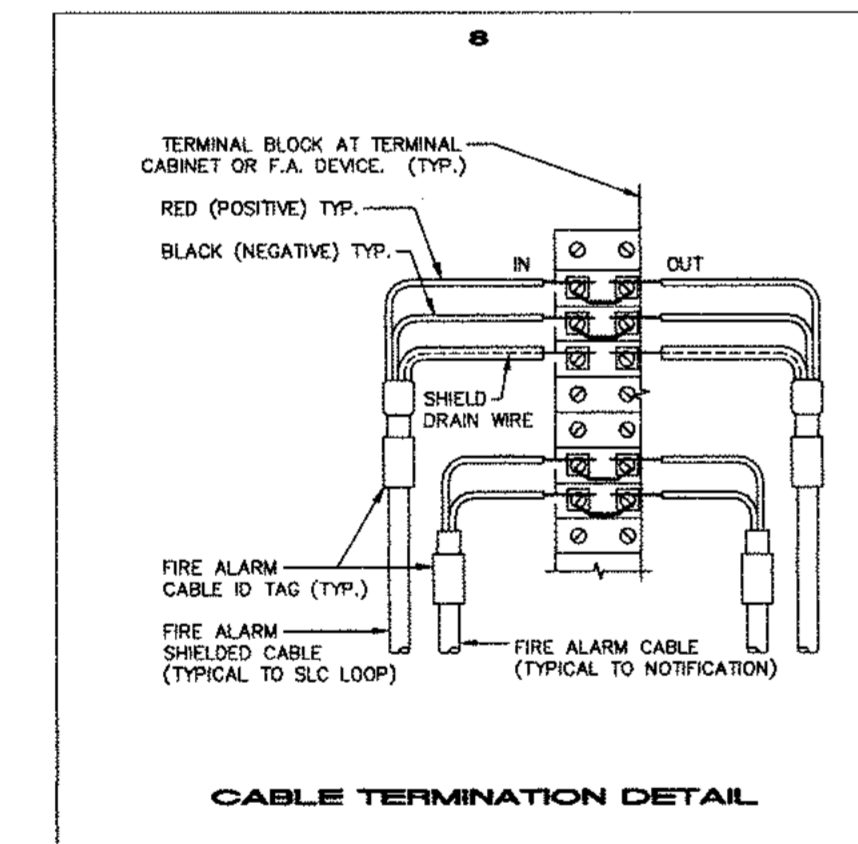
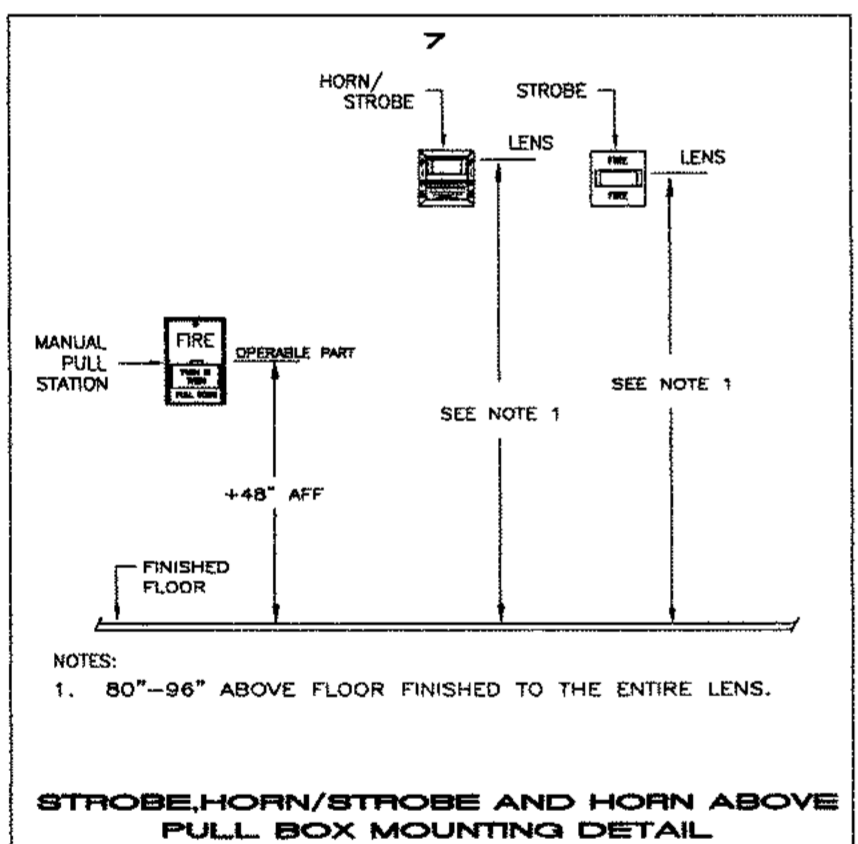
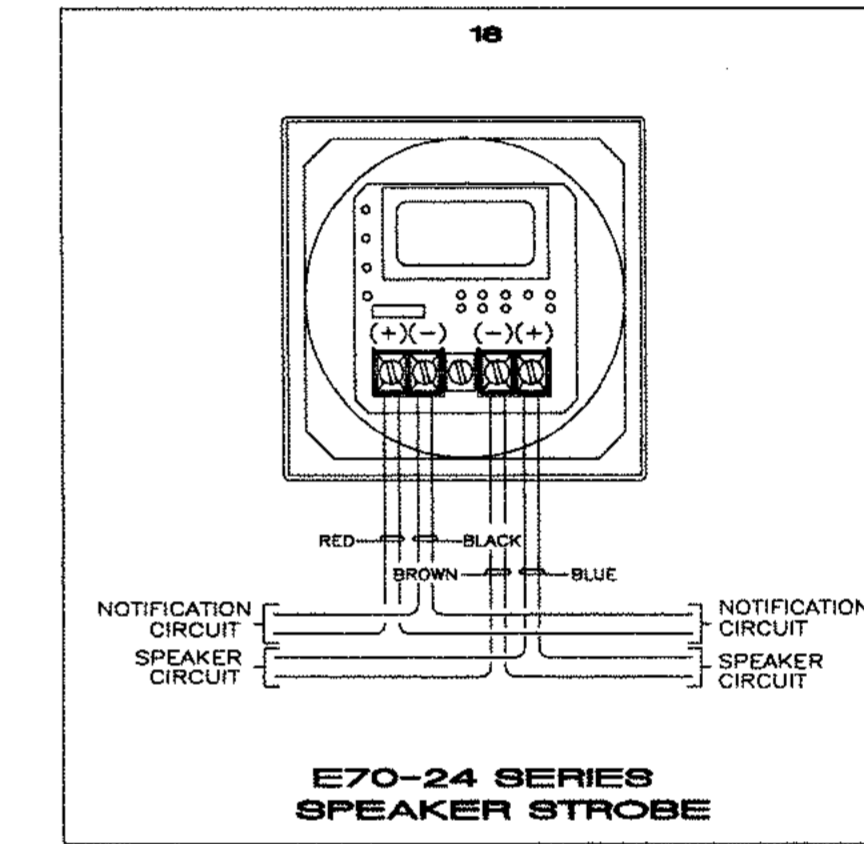
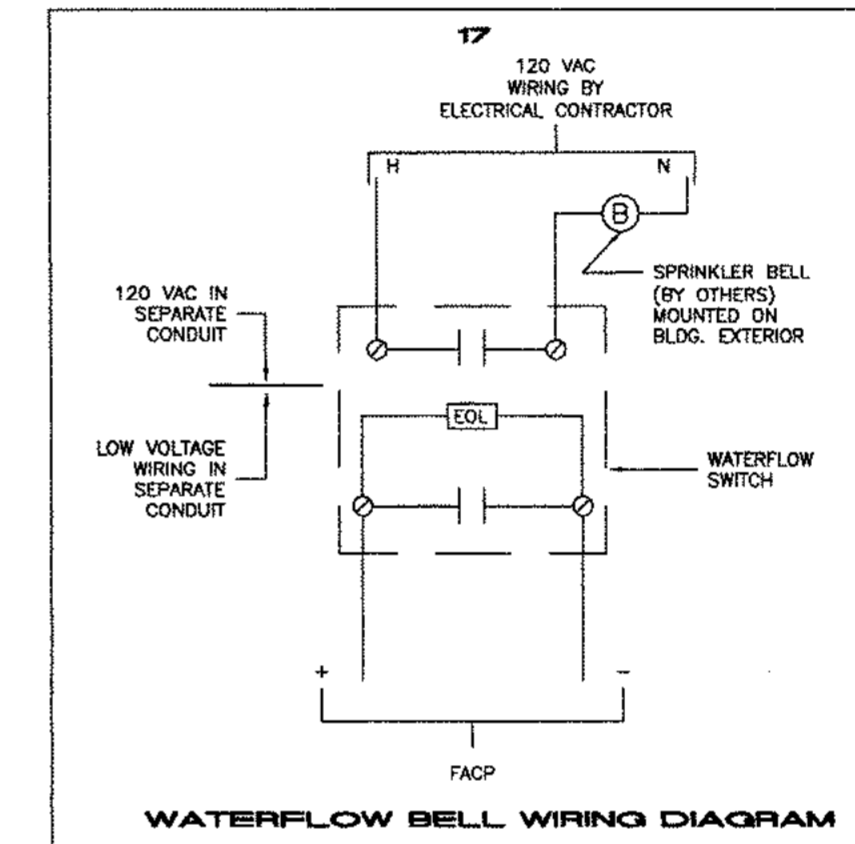
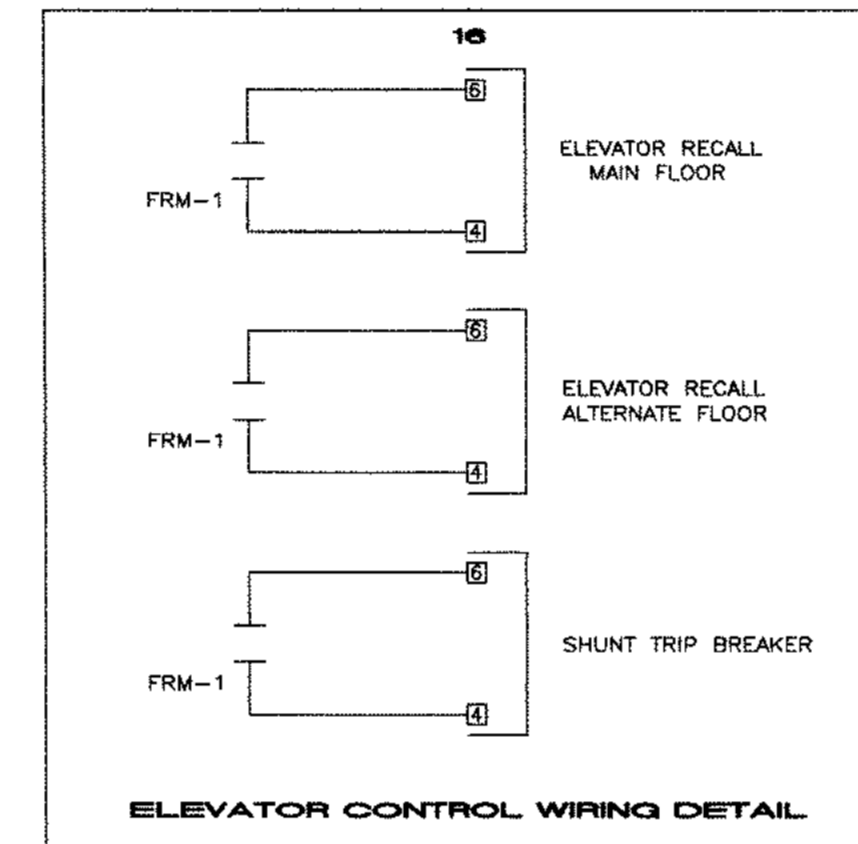
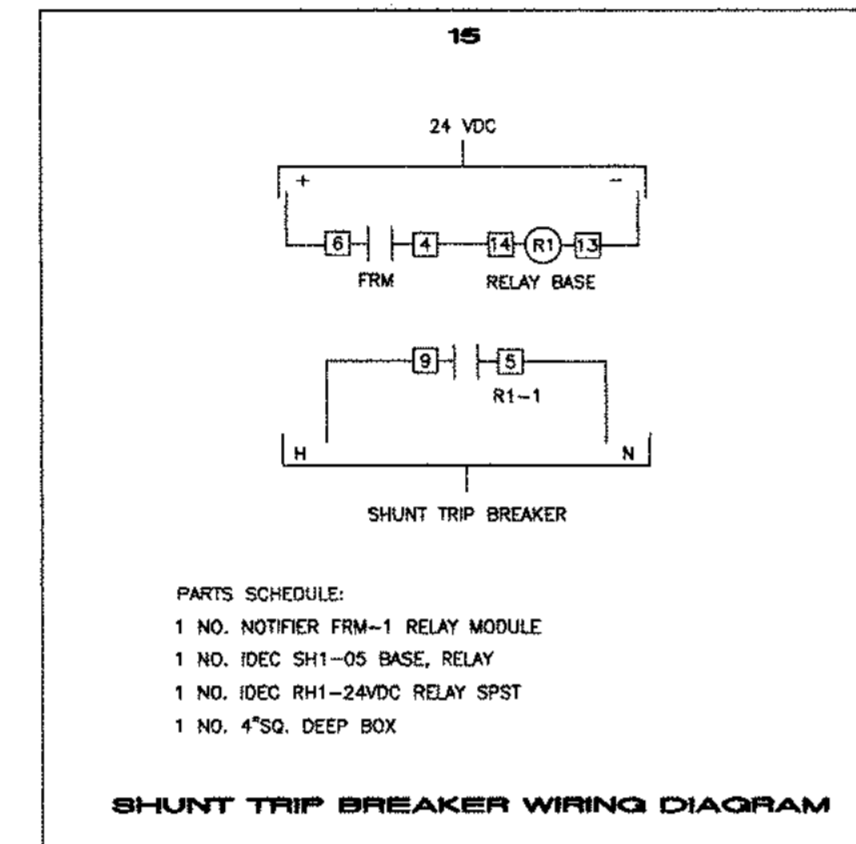
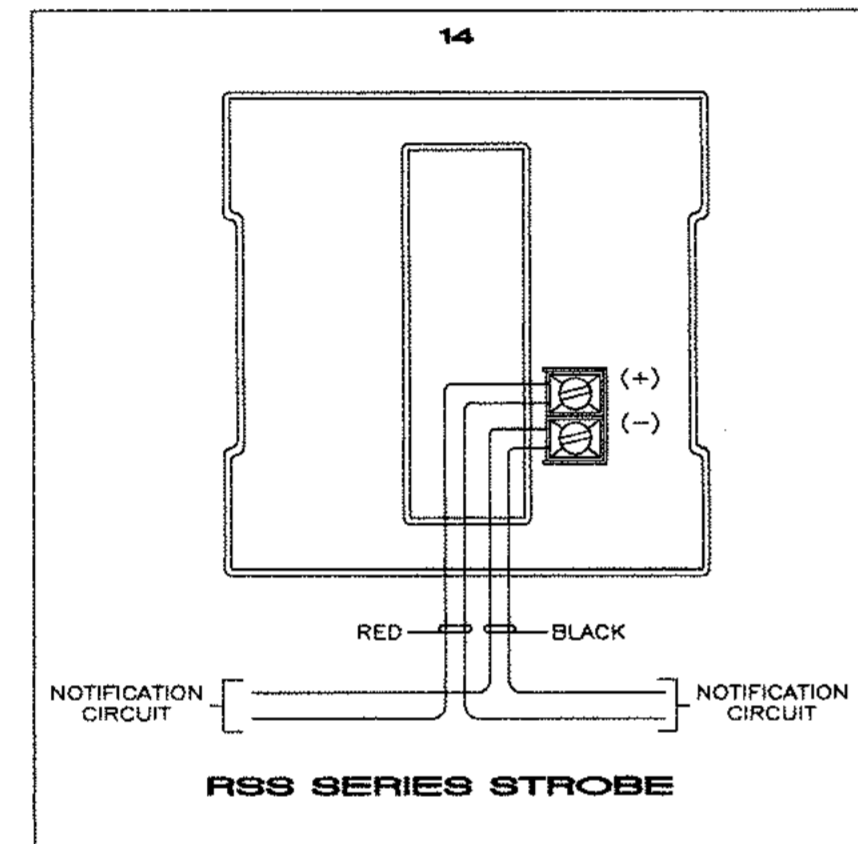
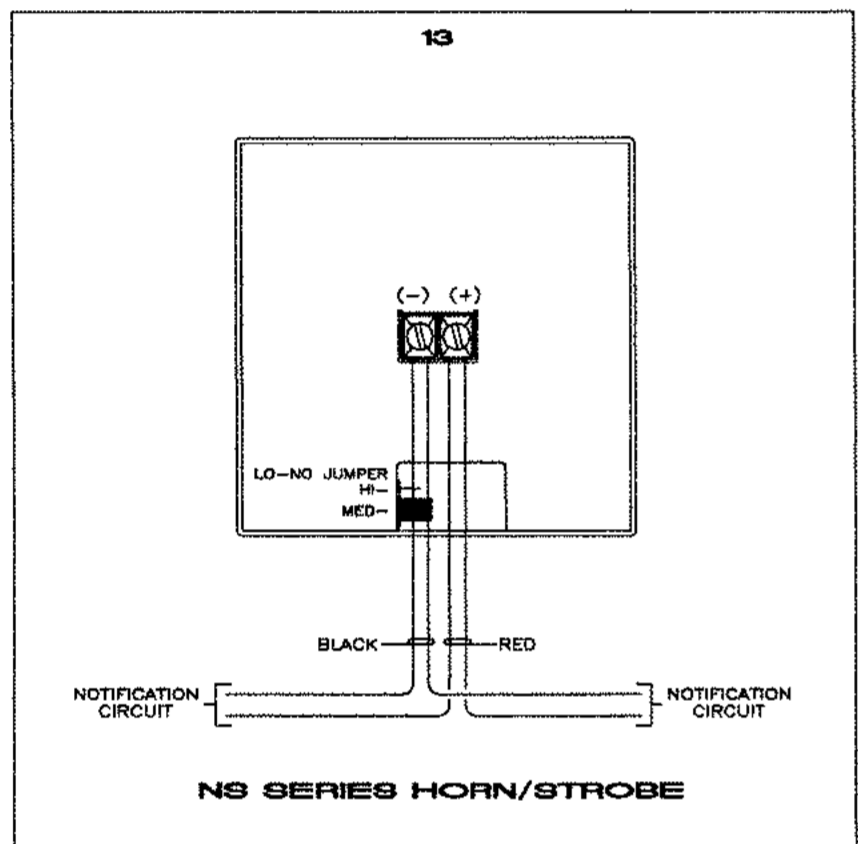
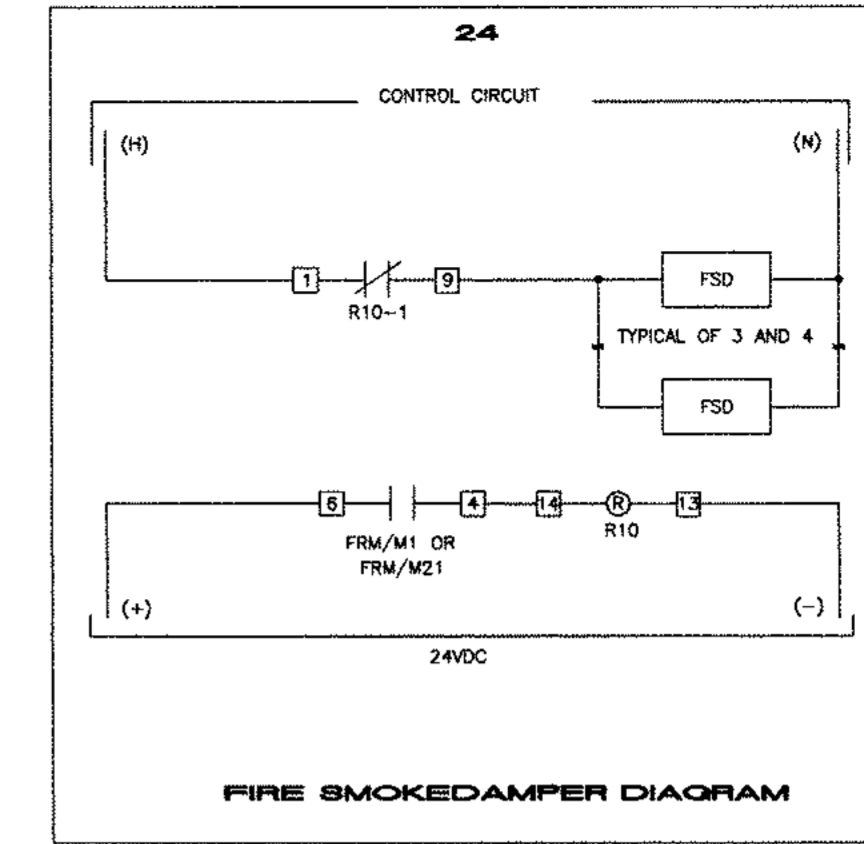
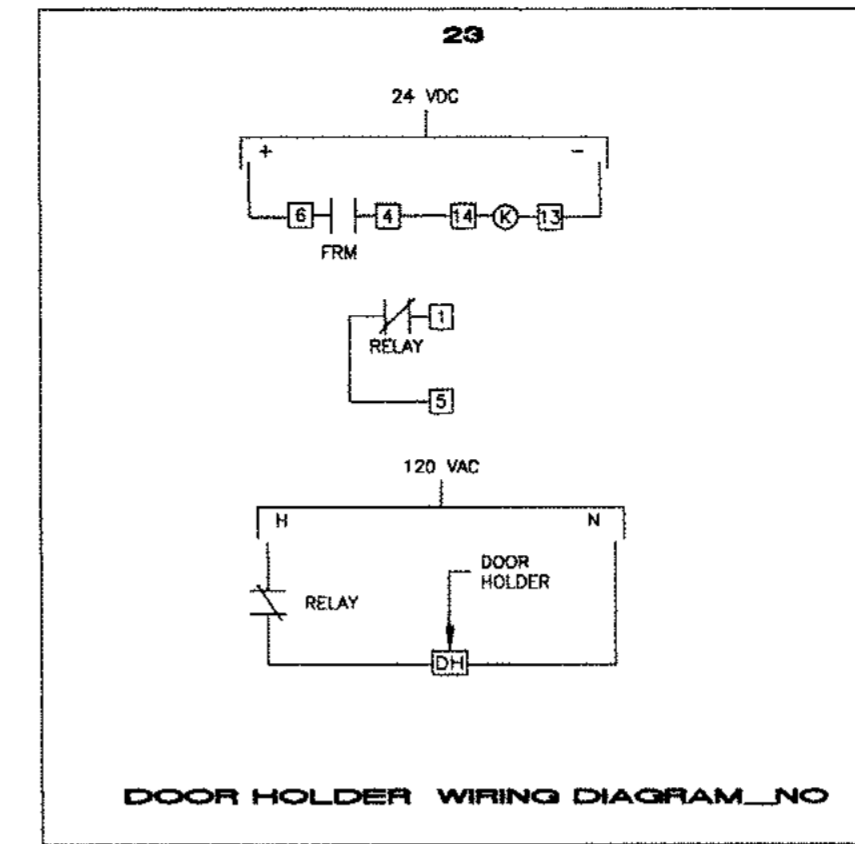
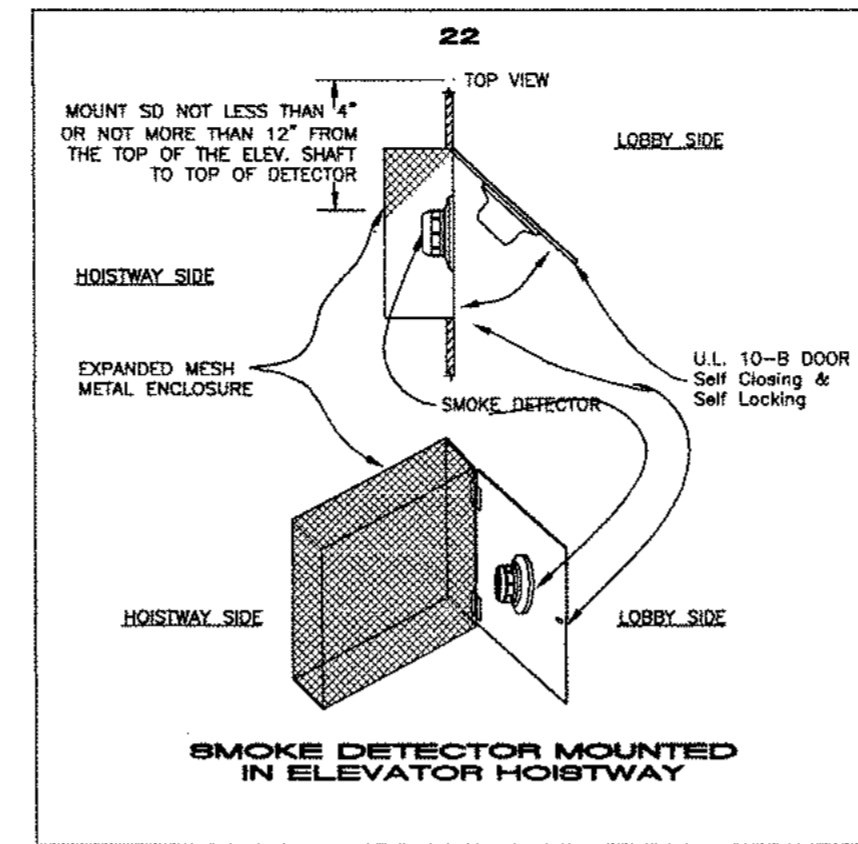
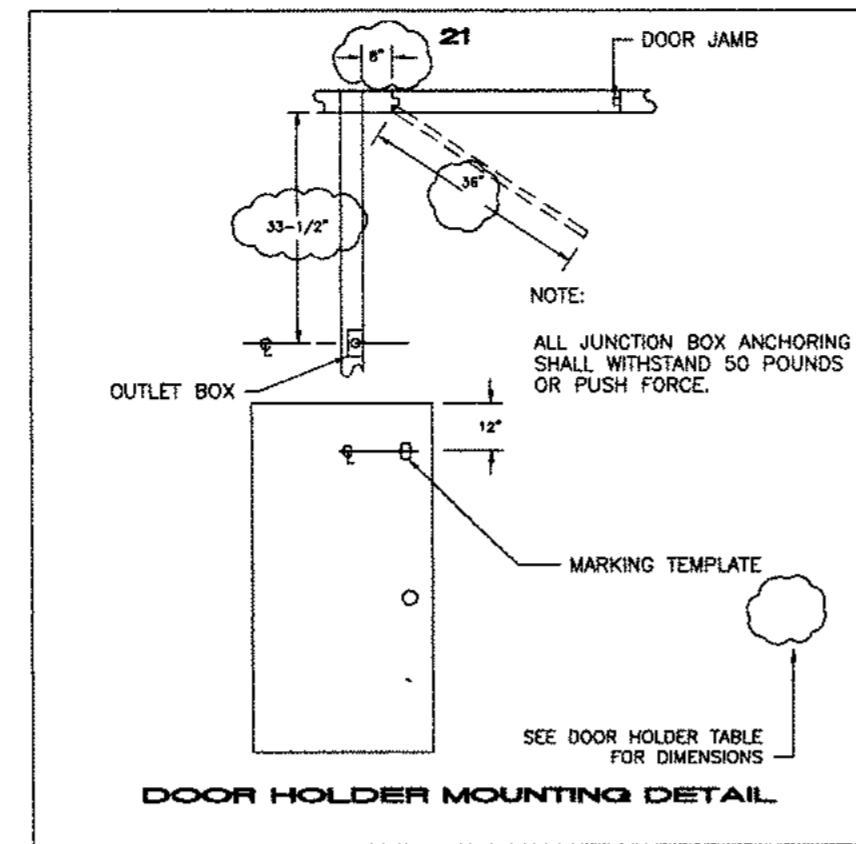
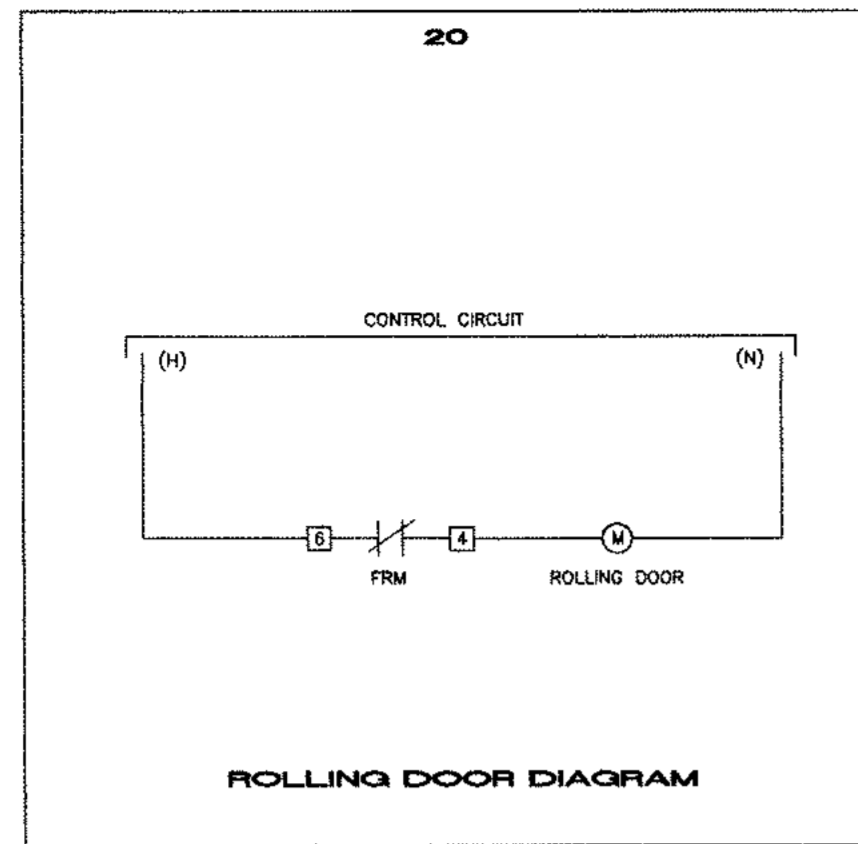
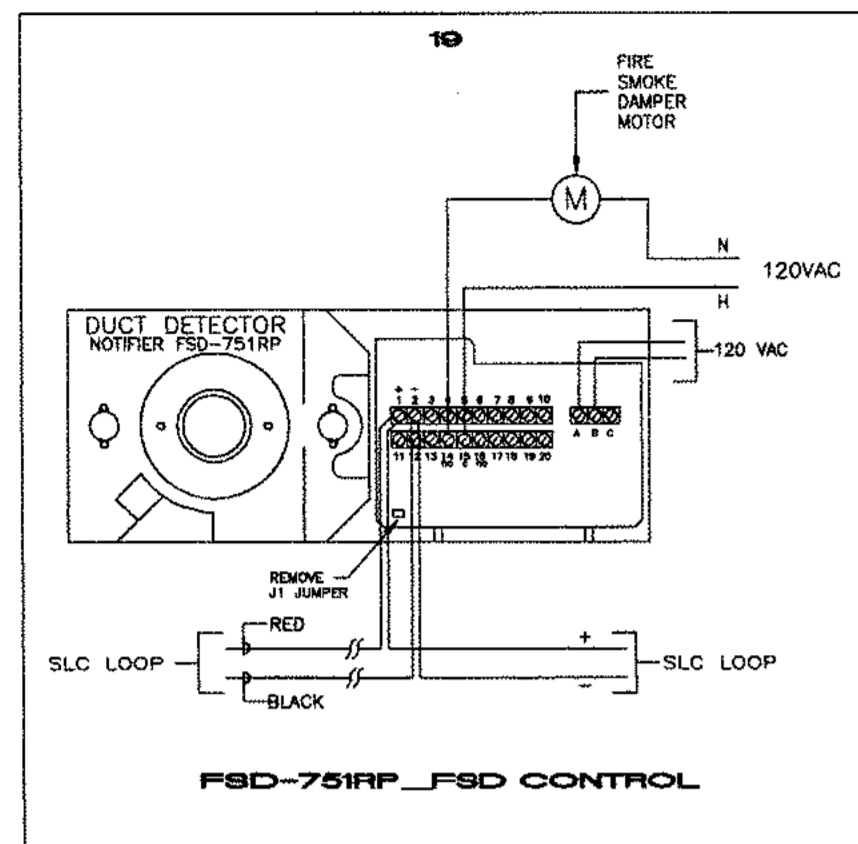
Revision:
12-15-03 ENGINEERS PLAN REVIEW/ COMMENT

Project Title:
CUPERTINO CIVIC CENTER
10400 Torre Avenue
Cupertino, CA 95014

Sheet Title:
FIRE ALARM SYSTEM
PANEL DETAIL

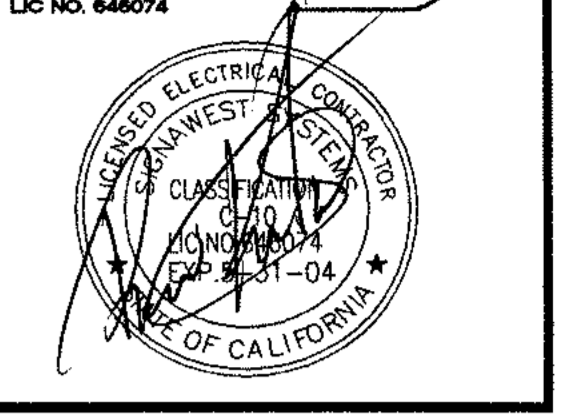
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File No.: 898-2.01
Scale: N.T.S.
Drawn by: Y.M.
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DETAILS
SCALE: N.T.S.

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 PH: 916/795-0000
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 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals :

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Sheet Title :
FIRE ALARM SYSTEM

DETAILS
 SWS No. : 2003-898
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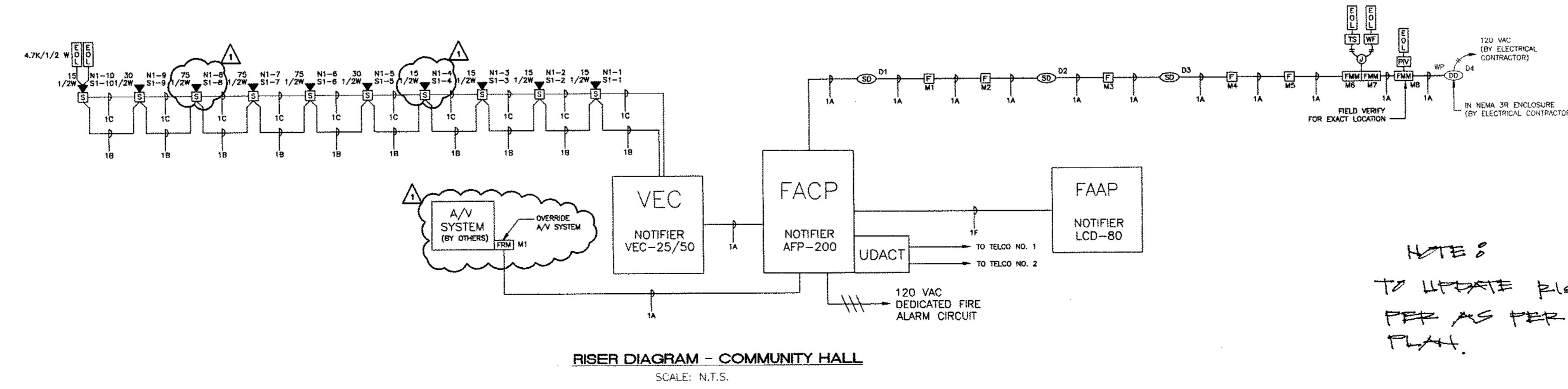
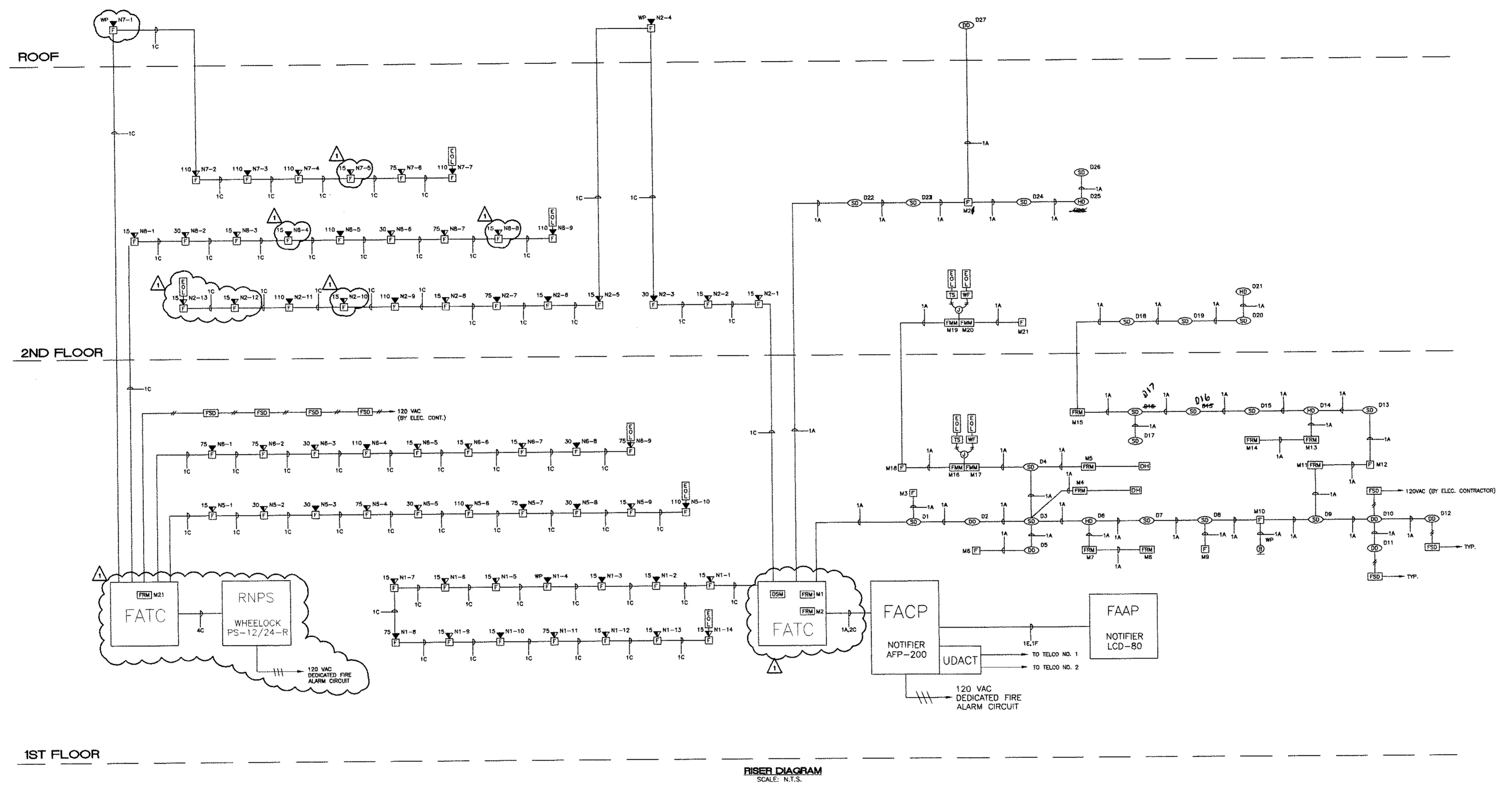
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 12-15-03 ENGINEERS PLAN REVIEW/ COMMENT

Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
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Sheet Title :
FIRE ALARM SYSTEM
RISER DIAGRAM

SWS No. : 2003-898
 File No. : 898-2.03
 Scale : N.T.S.
 Drawn by : Y.M.
 Checked by : LEO
 Date : 10-22-2003

Sheet Number :
FA2.03



NOTE:
 TO UPDATE RISER DIAGRAM AS PER AS PER AS BUILT MARK UP PLAN.

TORRE AVENUE

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SIGNAWEST SYSTEMS
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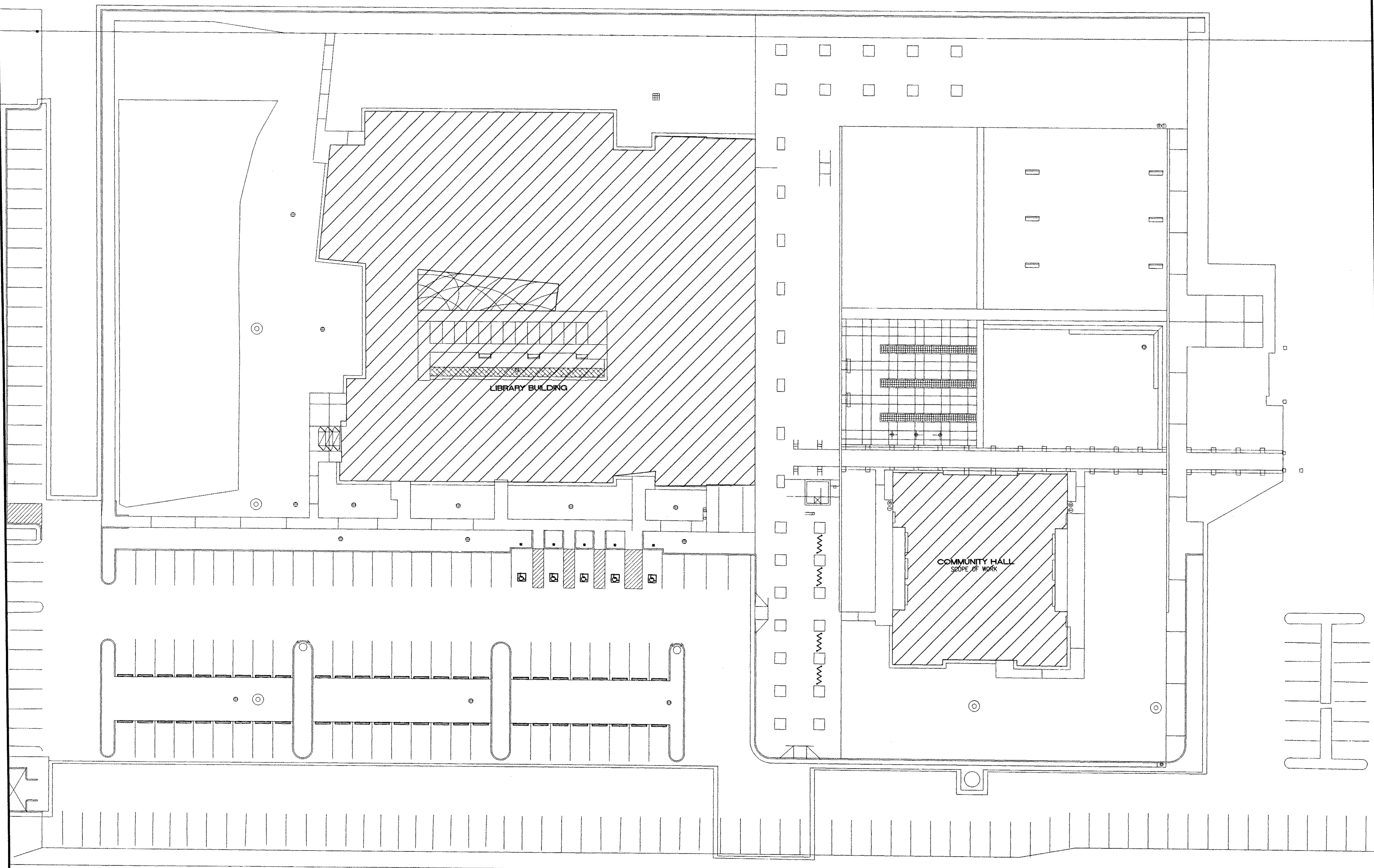
Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
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Sheet Title :
FIRE ALARM SYSTEM

SITE PLAN

SWS No. : 2003-898
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 Scale : 1"=20'-0"
 Drawn by : YM
 Checked by : LEO
 Date : 10-22-2003

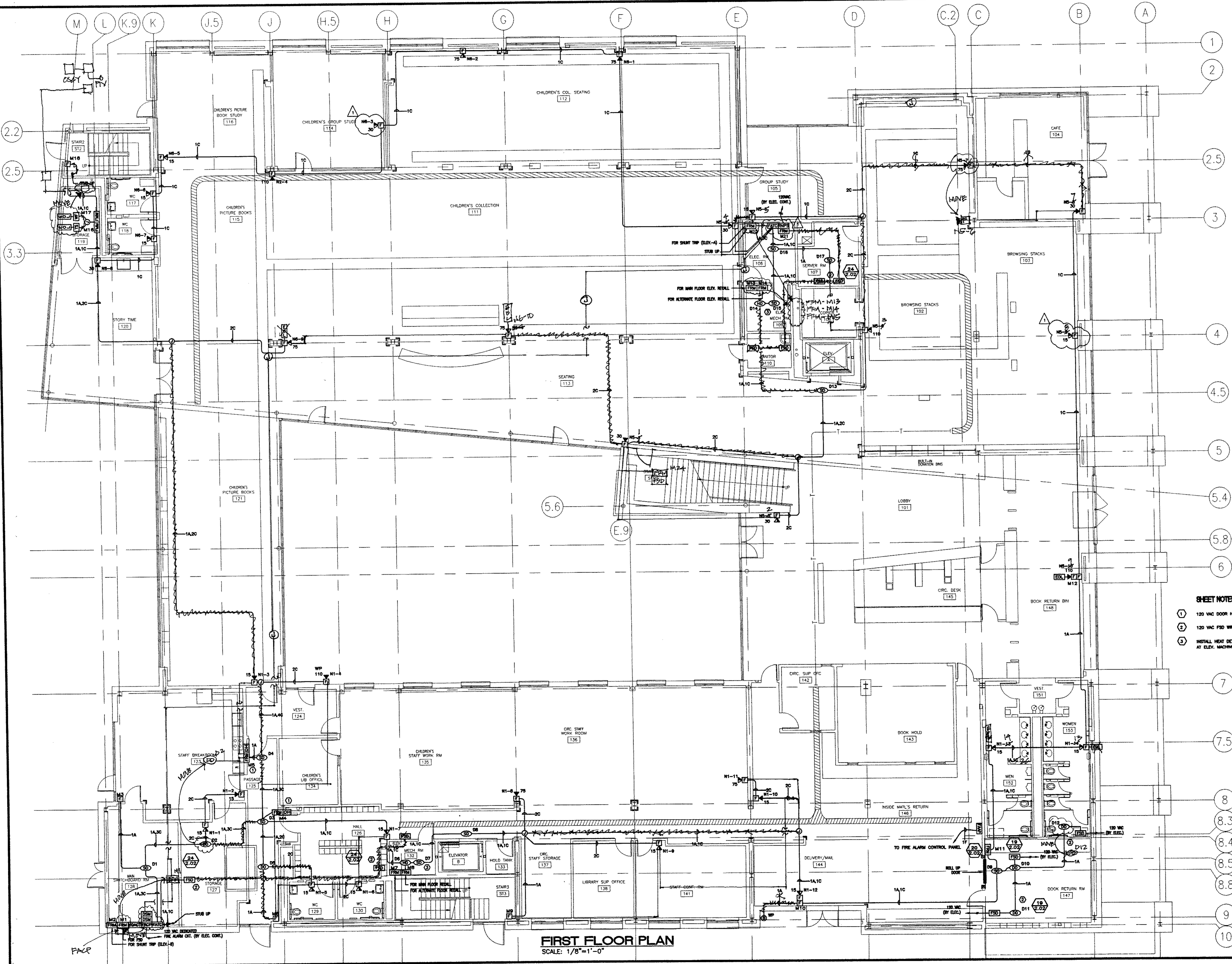
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SITE PLAN
 SCALE: 1"=20'-0"

LEGEND:





FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

SW
SIGNWEST SYSTEMS
7300 CENTRAL AVE. SUITE C
NEWARK, CA 94560-8008
PH: 510/795-0000
FAX: 510/795-0044
LIC NO. 648074

LICENSSED ELECTRICAL CONTRACTOR
SIGNWEST SYSTEMS
CLASSIFICATION
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C-101014-04
STATE OF CALIFORNIA

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Santa Clara, CA 95054
Phone: (408) 986-1320
Fax: (408) 986-1324

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12-15-03 ENGINEERS PLAN REVIEW/ COMMENT

Project Title:
CUPERTINO CIVIC CENTER
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Cupertino, CA 95014

- SHEET NOTES:**
- 1 120 VAC DOOR HOLDER & WIRING BY ELEC. CONTRACTOR.
 - 2 120 VAC FSD WIRING BY ELEC. CONTRACTOR.
 - 3 INSTALL HEAT DETECTOR WITHIN 5FT. OF SPRINKLER HEAD AT ELEV. MACHINE RM & TOP OF THE HOISTWAY.

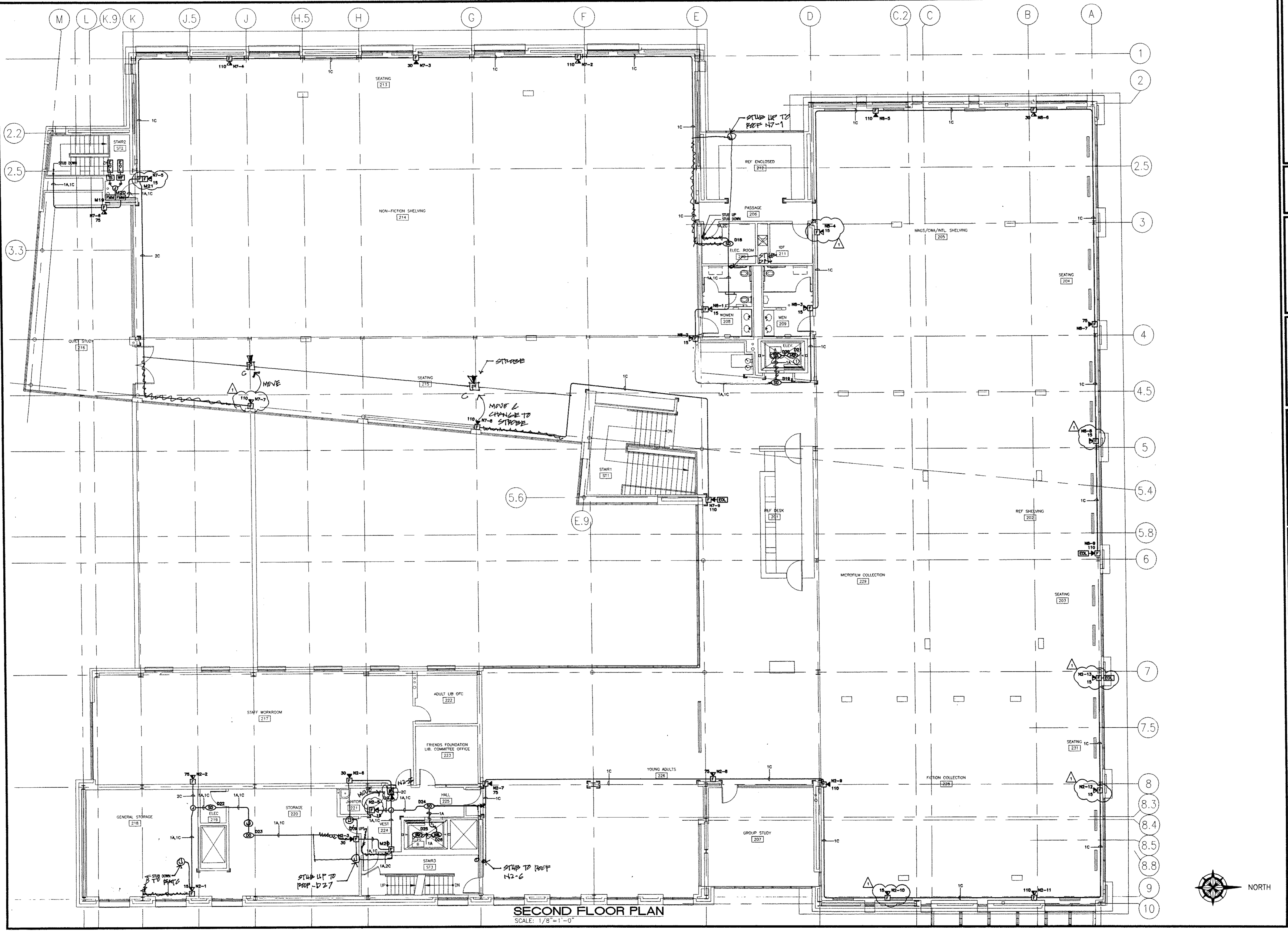
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FIRE ALARM SYSTEM

LIBRARY FIRST FLOOR PLAN

SWS No.: 2003-898
File No.: 898-3.01
Scale: 1/8"=1'-0"
Drawn by: YM
Checked by: LEO
Date: 10-22-2003

Sheet Number:
FA3.01





SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

SW SIGNWEST SYSTEMS
7300 CENTRAL AVE. SUITE D
NEWARK, CA 94560-4206
PH: (925) 795-9999
FAX: (925) 795-0644
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Fax: (408) 986-1324

Approvals :

Revision :
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Project Title :
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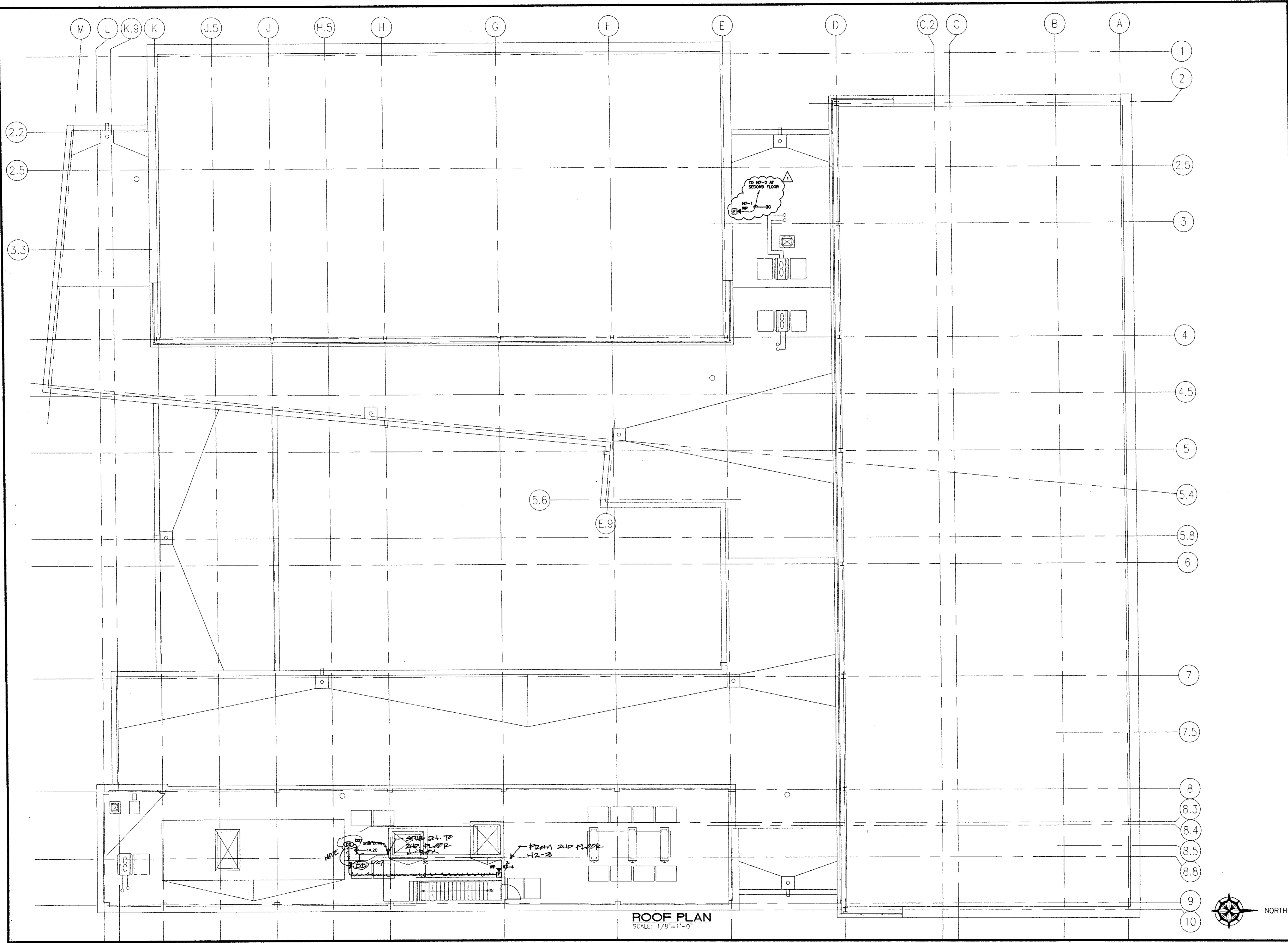
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LIBRARY SECOND FLOOR PLAN

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File No. : 898-3.02
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Drawn by : YM
Checked by : LEO
Date : 10-22-2003

Sheet Number :
FA3.02





ROOF PLAN
SCALE: 1/8"=1'-0"

SW
SIGNWEST SYSTEMS
7000 CENTRAL AVE. SUITE D
NEWARK, CA. 94560-4208
PH: 913/795-9999
FAX: 913/795-9644
LIC NO. 848074

REGISTERED ELECTRICAL CONTRACTOR
SIGNWEST SYSTEMS
CLASSIFICATION
LIC. 95498
EX. 5-21-04
STATE OF CALIFORNIA

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Fax: (408) 986-1324

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12-15-03 ENGINEERS PLAN REVIEW / COMMENT

Project Title :
CUPERTINO CIVIC CENTER
10400 Torre Avenue
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Sheet Title :
FIRE ALARM SYSTEM
ROOF PLAN

SWS No. : 2003-898
File No. : 898-3.03
Scale : 1/8"=1'-0"
Drawn by : YM
Checked by : LEO
Date : 10-22-2003

Sheet Number :
FA3.03

NOTES
 ① ALL PANELS TO BE RECESSED IN WALL.

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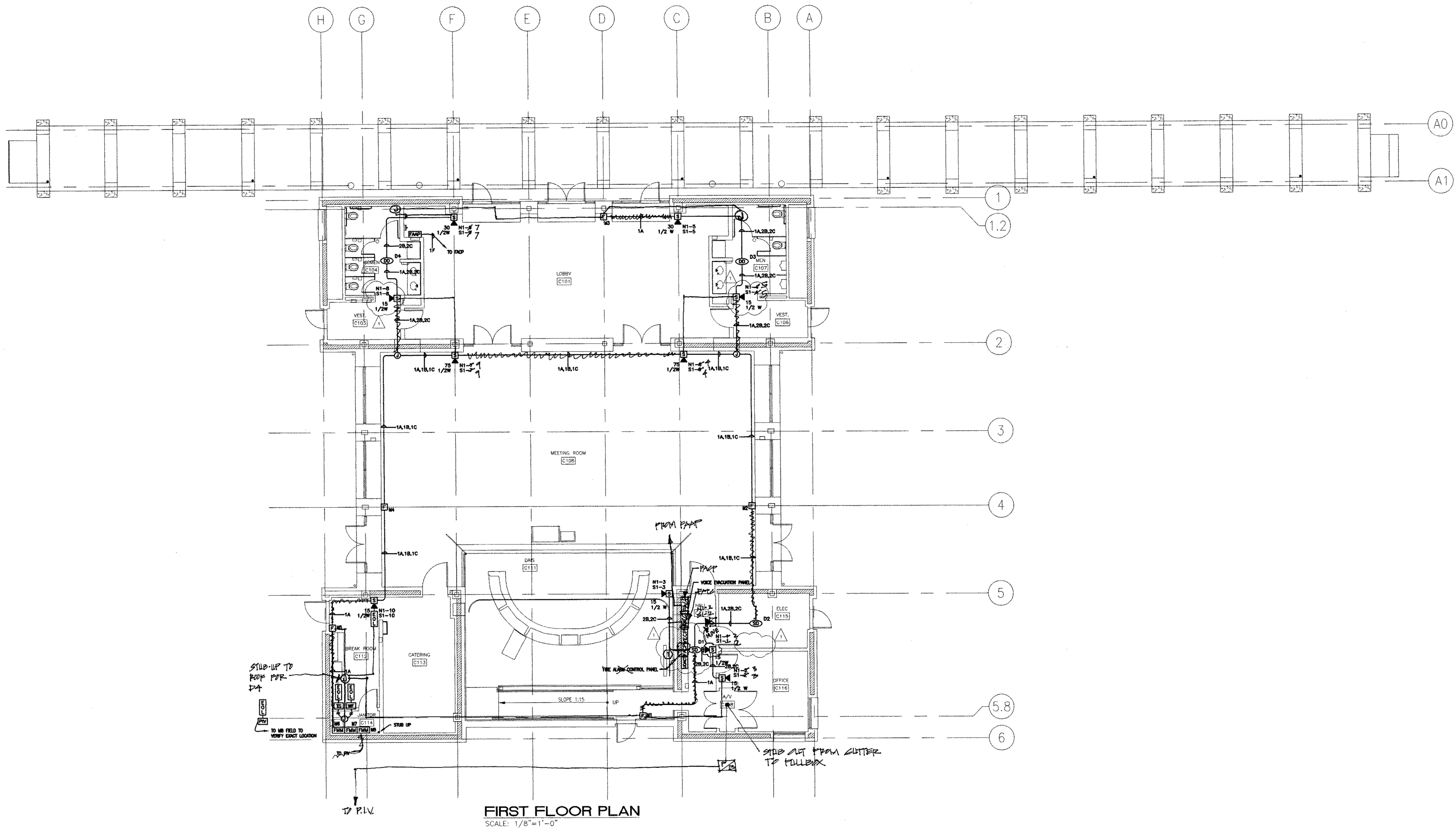
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Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
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Sheet Title :
FIRE ALARM SYSTEM
COMMUNITY HALL FLOOR PLAN

SWS No. : 2003-898
 File No. : 898-3.04
 Scale : 1/8"=1'-0"
 Drawn by : YM
 Checked by : LEO
 Date : 10-22-2003

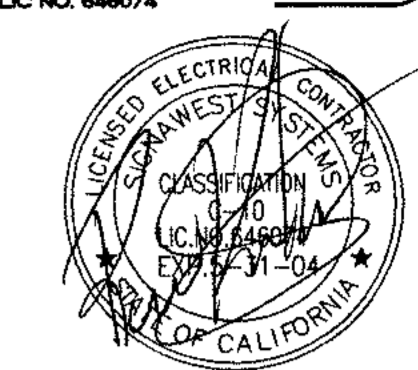
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FIRST FLOOR PLAN
 SCALE: 1/8"=1'-0"



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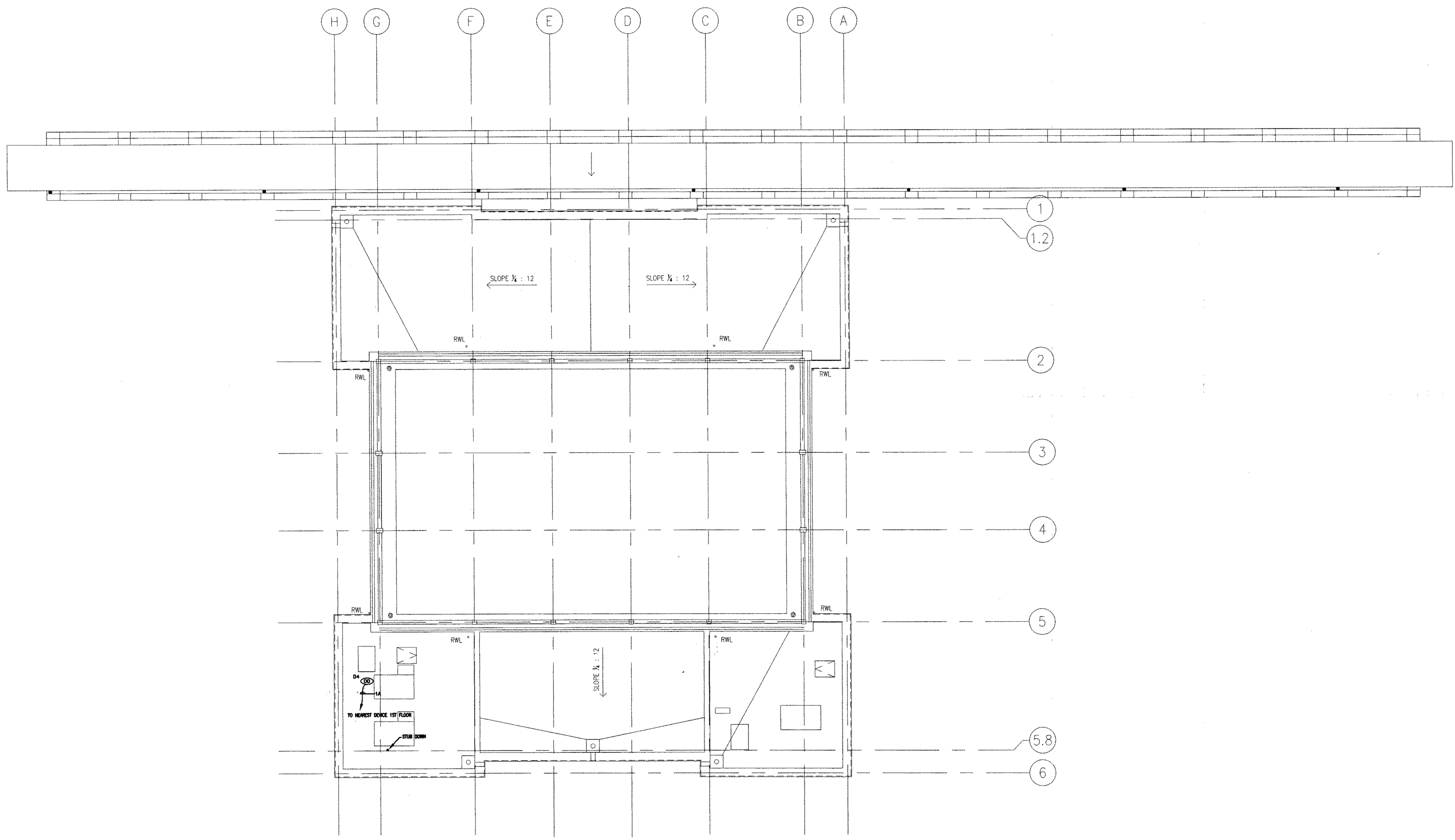
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Sheet Title :
FIRE ALARM SYSTEM
COMMUNITY HALL ROOF PLAN

SWS No. : 2003-898
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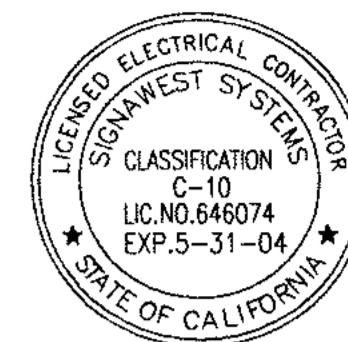
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ROOF PLAN
 SCALE: 1/8"=1'-0"



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 Fax: (408) 986-1324

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Revision :

Project Title :
CUPERTINO CIVIC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :
INTRUSION ALARM SYSTEM

TITLE SHEET

SWS No. : 2003-898
 File No. : 898-1.01
 Scale : N.T.S.
 Drawn by : RB
 Checked by : LEO
 Date : 11-13-2003

Sheet Number :
IA1.01

GENERAL NOTES

1. ALL CONDUIT SHALL HAVE PULL STRING INSTALLED.
2. ALL CABLES INSTALLED SHALL BE PROPERLY MARKED AND LABELED.
3. ALL TERMINATIONS IN THE TERMINAL CABINET SHALL BE PERFORMED BY THE CONTRACTOR PULLING AND INSTALLING CABLE. ALL WIRES SHALL BE IDENTIFIED AT EACH TERMINAL AND/OR IN EACH OUTLET.
4. ALL WIRE AND CABLES SHALL BE CONTINUOUS AND SPLICE FREE.
5. MAINTAIN CONSISTENT ABSOLUTE PAIRING, COLOR CODE AND SIGNAL POLARITY AT ALL CONNECTORS, PATCH POINTS AND CONNECTION POINTS ACCESSIBLE IN THE SYSTEM.
6. THE T-BAR CEILING SUPPORT WIRES SHALL NOT BE USED TO SUPPORT THE CABLES.
7. ALL WIRING SHALL BE FREE FROM GROUND, OPEN AND SHORT CIRCUIT.
8. ALL MOTION DETECTOR SHALL BE LOCATED PER DISTRICT INSTRUCTIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ANOC	REMOTE FIRE ALARM ANNUNCIATOR
C	CONDUIT
CLK	CLOCK
CSFM	CALIFORNIA STATE FIRE MARSHALL
CL	CENTER LINE
DN	DOWN
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
IC	INTERCOM
MH	MANHOLE
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PA	PUBLIC ADDRESS
PB	PULL BOX
SLC	SIGNALING LINE CIRCUIT
(SMD)	SUPPLIED BY MECHANICAL DIVISION
SPK	SPEAKER
STC	SIGNAL TERMINAL CABINET
TB	TERMINAL BLOCK
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MFG.	MODEL NO.	ROUGH-IN	MT HEIGHT
	INTRUSION ALARM CONTROL PANEL	DMP	XR200	W/UNIT	+60" AFF TO TOP
	NETWORK INTERFACE CARD	DMP	482N	W/UNIT	AS REQUIRED
	ZONE EXPANDER MODULE	DMP	711	W/UNIT	AS REQUIRED
	ZONE EXPANDER MODULE	DMP	716	W/UNIT	AS REQUIRED
	12VDC POWER SUPPLY	ALTRONIX	SMP3PM-CTX	W/UNIT	AS REQUIRED
	DOOR CONTACT, RECESSED	SENTROL	1078		DOOR/DOOR JAM
	MOTION DETECTOR, CEILING	SENTROL	AP669	4" SQ. W/ 1GA	
	MOTION DETECTOR, WALL	SENTROL	AP750	4" SQ. W/ 1GA	6'-10" AFF TO TOP
	MOTION DETECTOR, CORNER WALL	SENTROL	6157XT	4" SQ. W/ 1GA	6'-10" AFF TO TOP
	HOLD-UP BUTTON	DMP	HUB-T	4" SQ. W/ 1GA	AS REQUIRED
	KEYPAD	DMP	770	W/UNIT	AS REQUIRED
	EXIT ALARM W/ KEY SWITCH	DSI	ES4300-K3/ES450	3 GANG ELEC. BOX	42" A.F.F.
	EXTERIOR ALARM SIREN	AMSECO	SSX-51	4" SQ. W/ 1GA	AS REQUIRED
	GLASSBREAK SENSOR	SENTROL	5812NT	4" SQ. W/ 1GA	AS REQUIRED
	JUNCTION BOX	BY OTHERS		4" SQ. W/ 1GA	AS REQUIRED
	REMOTE ANNUNCIATOR	LED	LD-2/LT-2	W/UNIT	+60" TO TOP
	END OF LINE				

CABLE/WIRE SCHEDULE

TYPE	MFG.	MODEL NO.	DESCRIPTION	INSTALLATION	FUNCTION
-D-	WEST PENN	222	CABLE, 2 COND, 20 AWG, STRAND	CONDUIT	DOOR CONTACT, GLASSBREAK
-I-	WEST PENN	251	CABLE, 2PR 22 AWG UNSHIELDED	CONDUIT	MODULES, KEYPAD
-P-	WEST PENN	224	CABLE, 2 COND, 18 AWG, STRAND	CONDUIT	POWER

CUPERTINO CIVIC CENTER

CUPERTINO, CA



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 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals:

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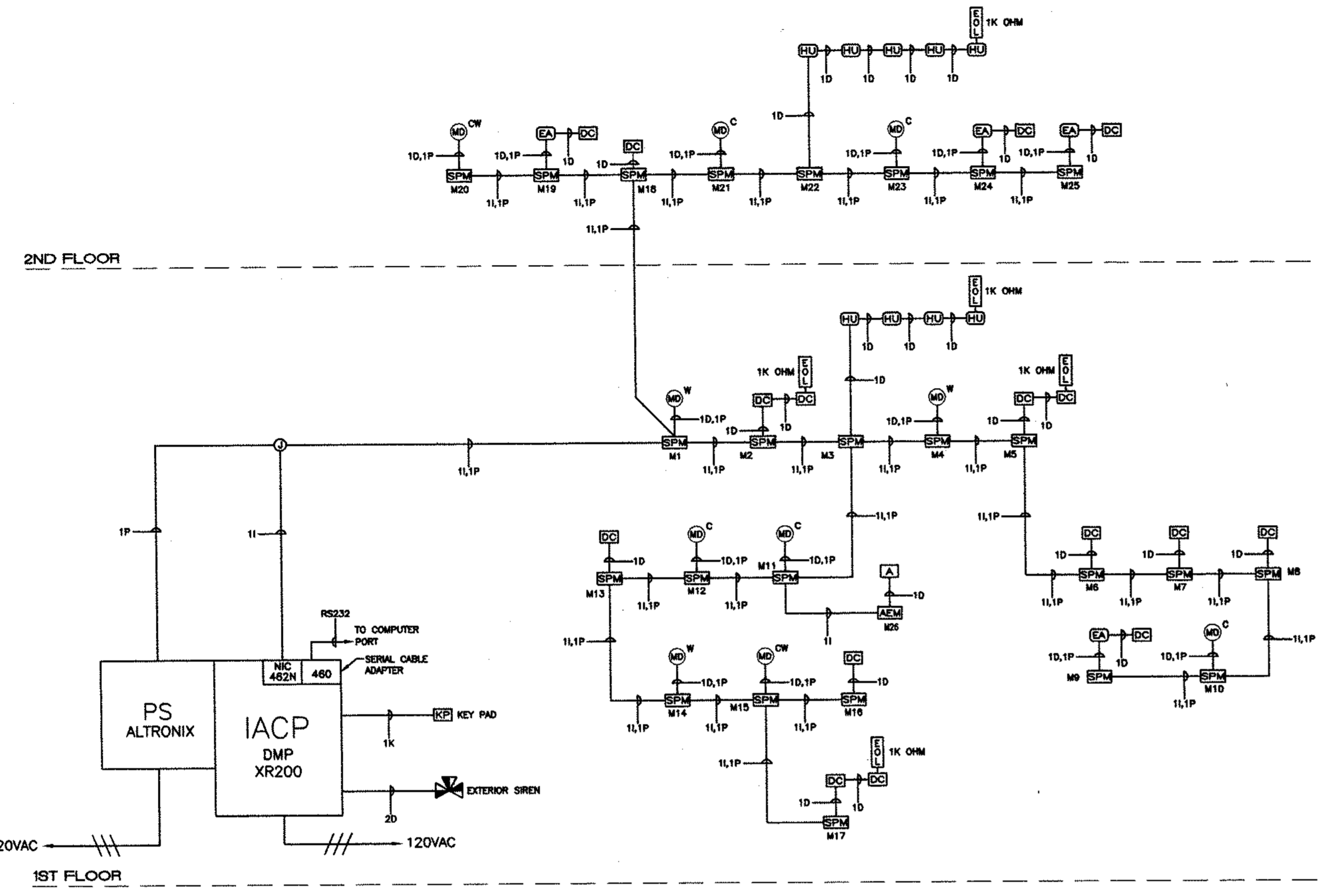
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 10400 Torre Avenue
 Cupertino, CA 95014

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INTRUSION ALARM SYSTEM

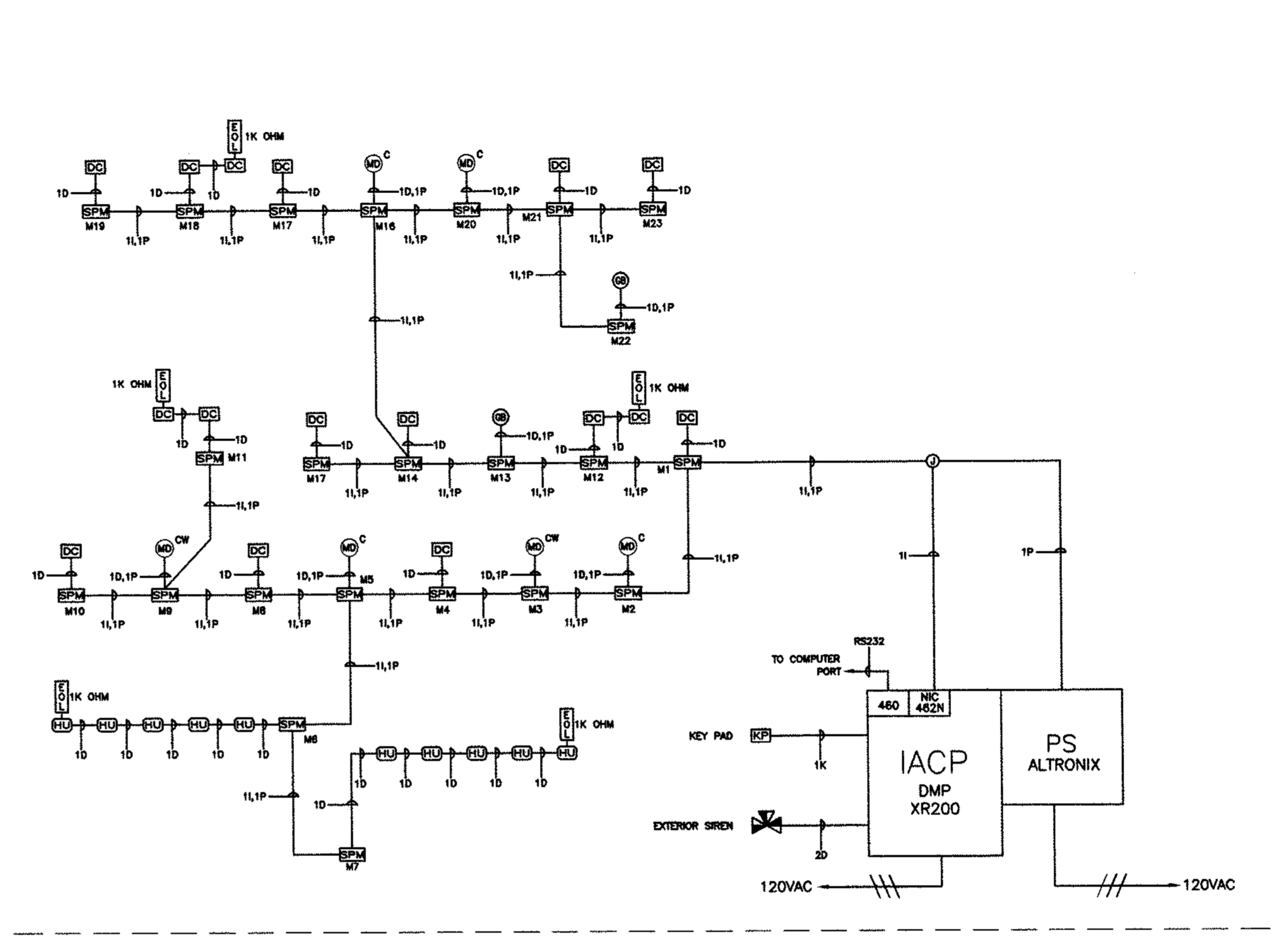
DETAILS AND RISER DIAGRAM

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 Checked by: LEO
 Date: 11-13-2003

Sheet Number:
IA2.01

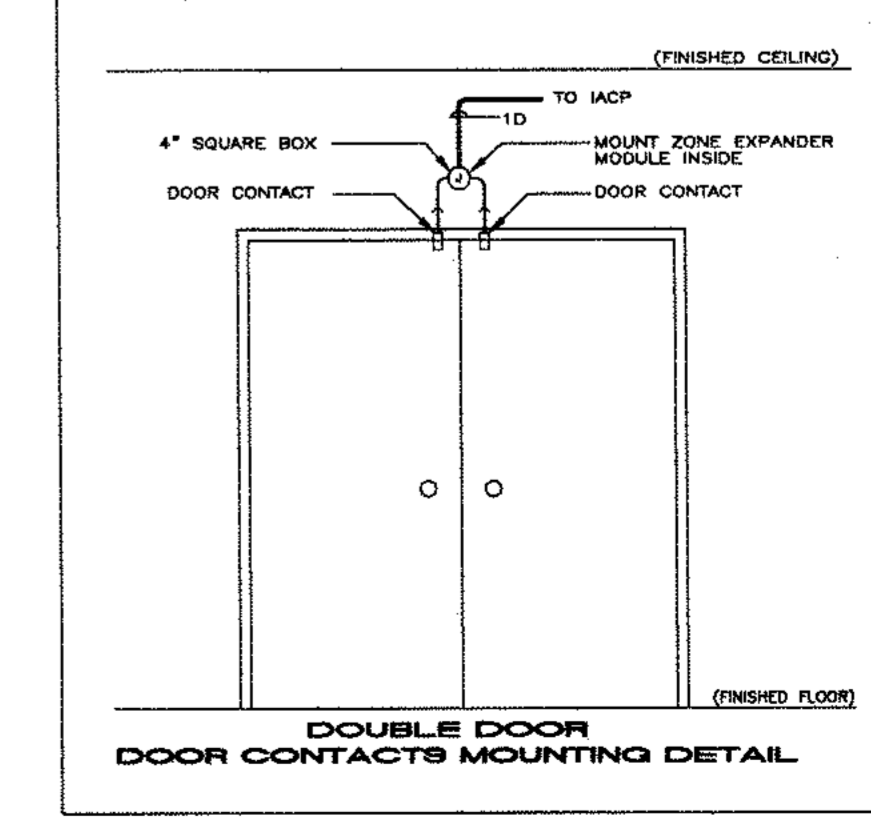
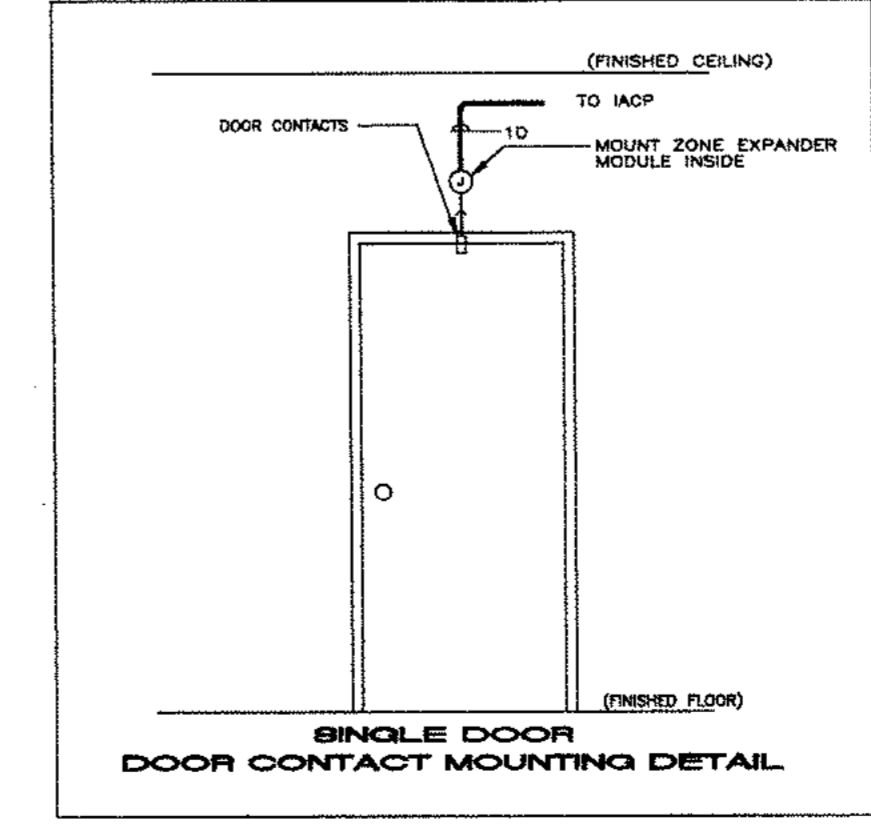
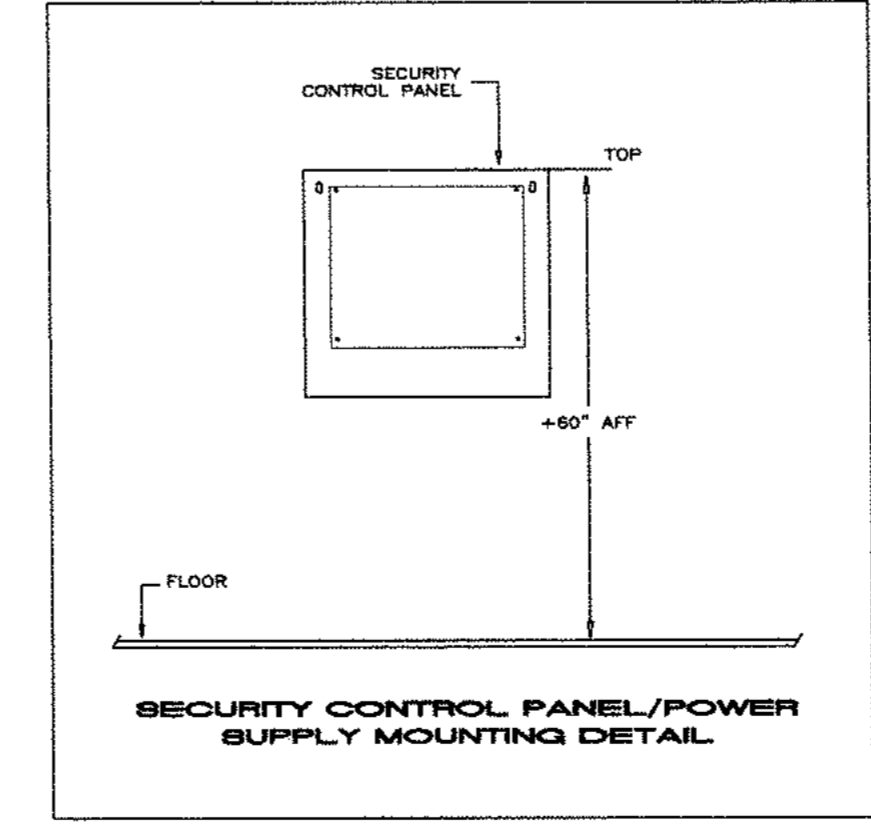
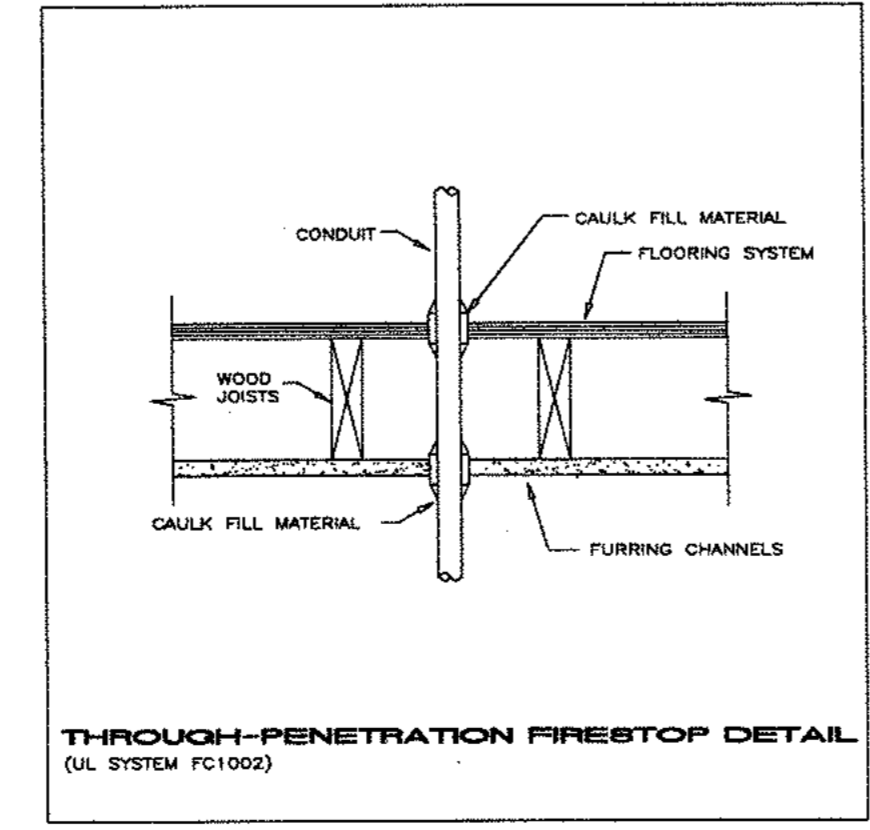
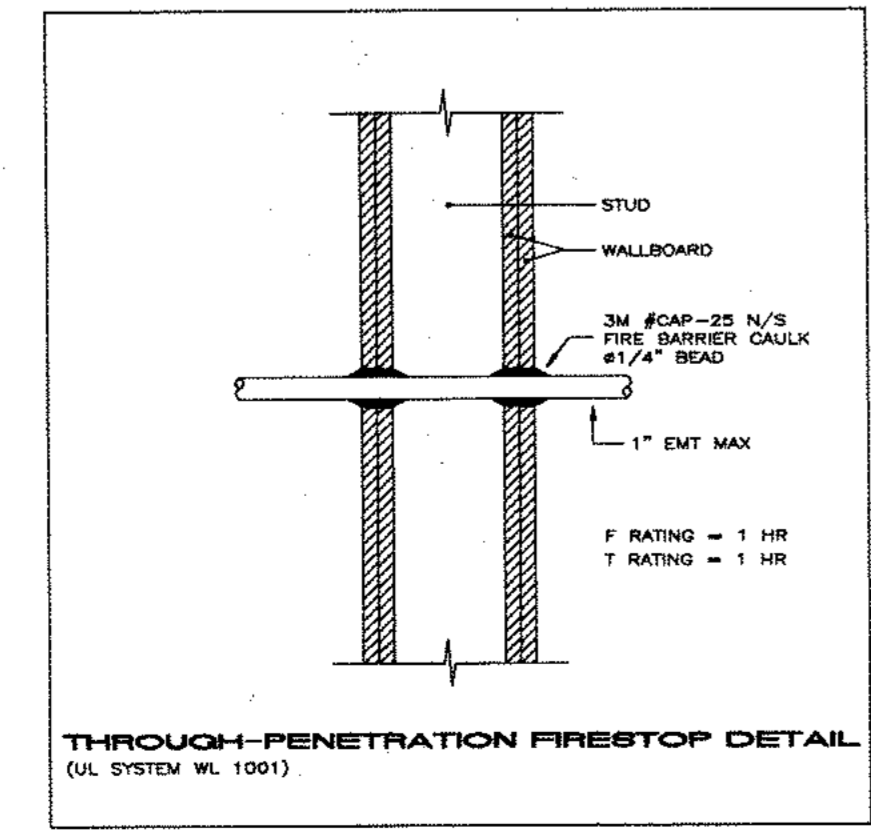
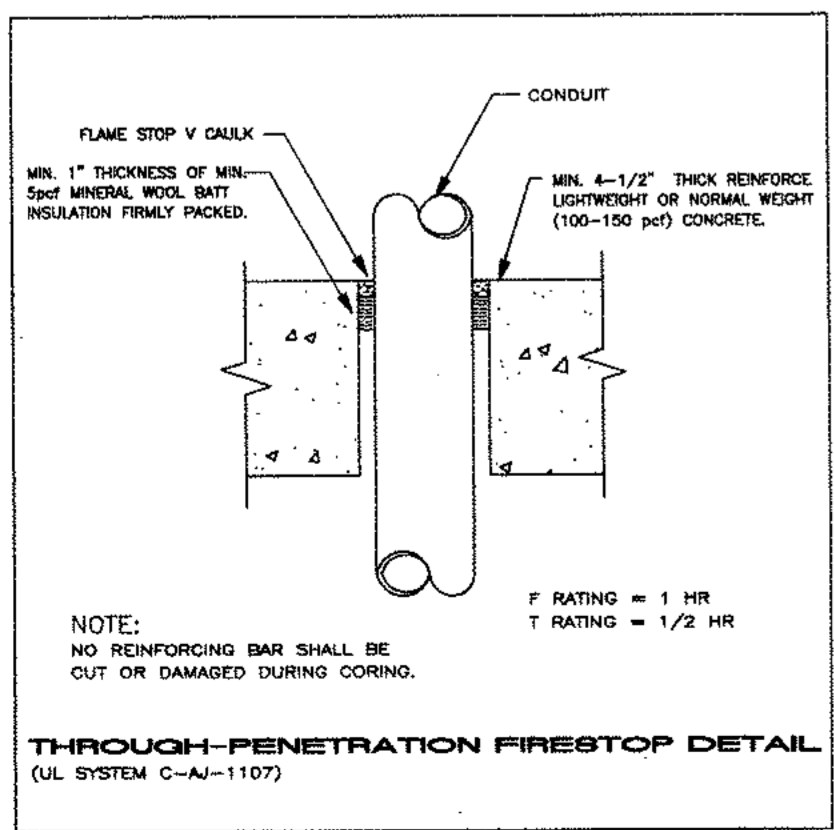
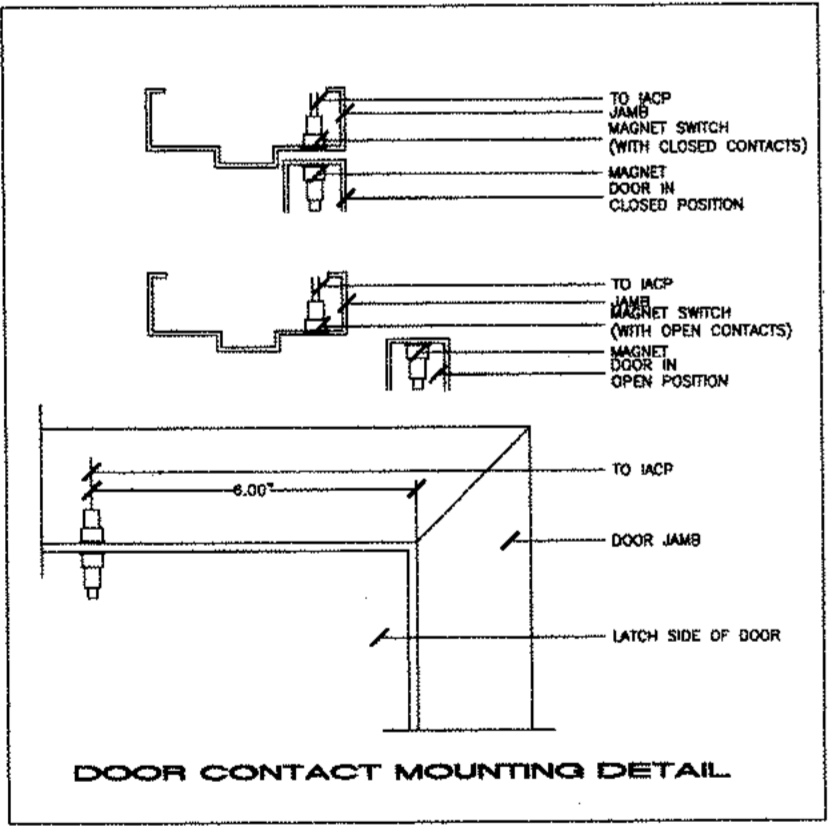


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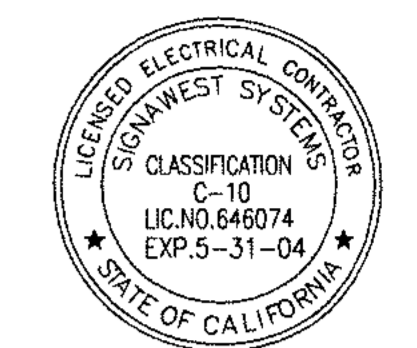


COMMUNITY HALL

RISER DIAGRAM
 SCALE: N.T.S.



DETAILS
 SCALE: N.T.S.



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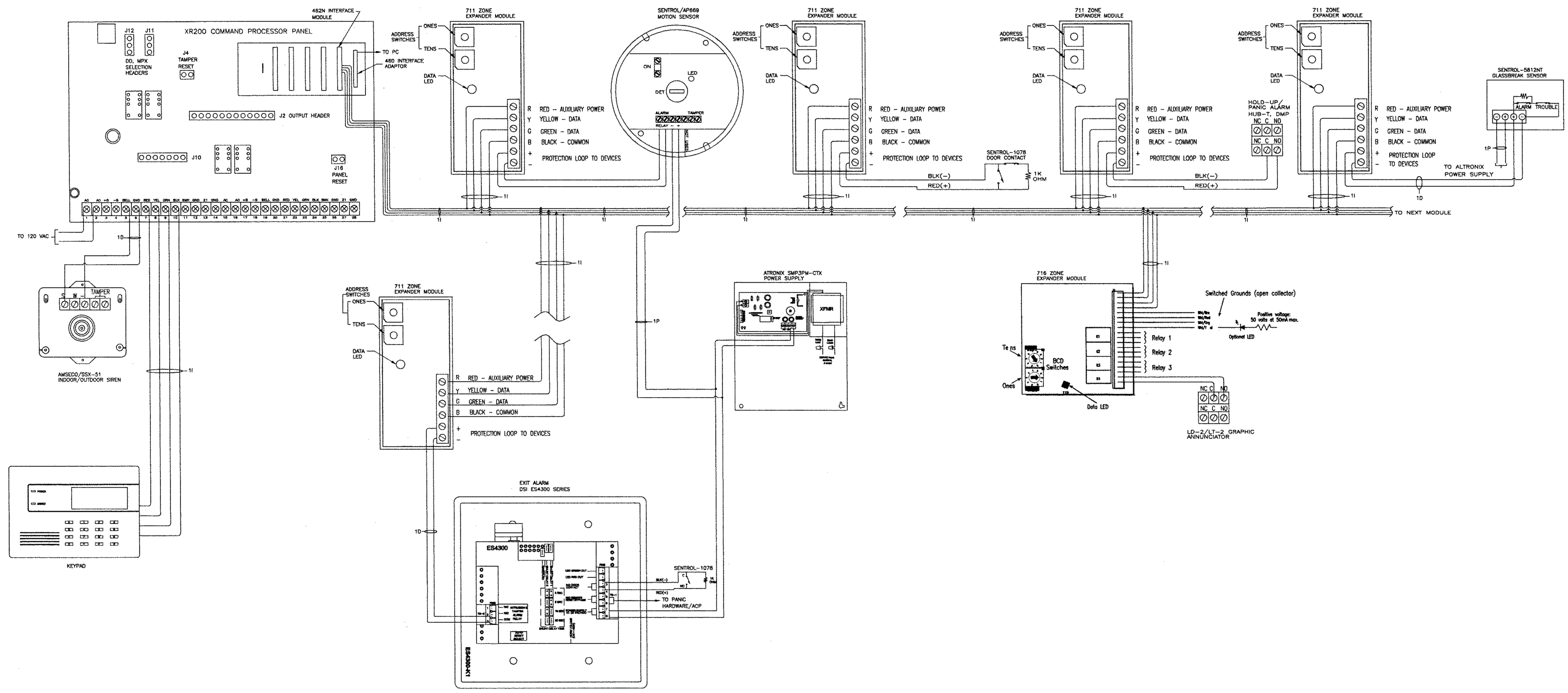
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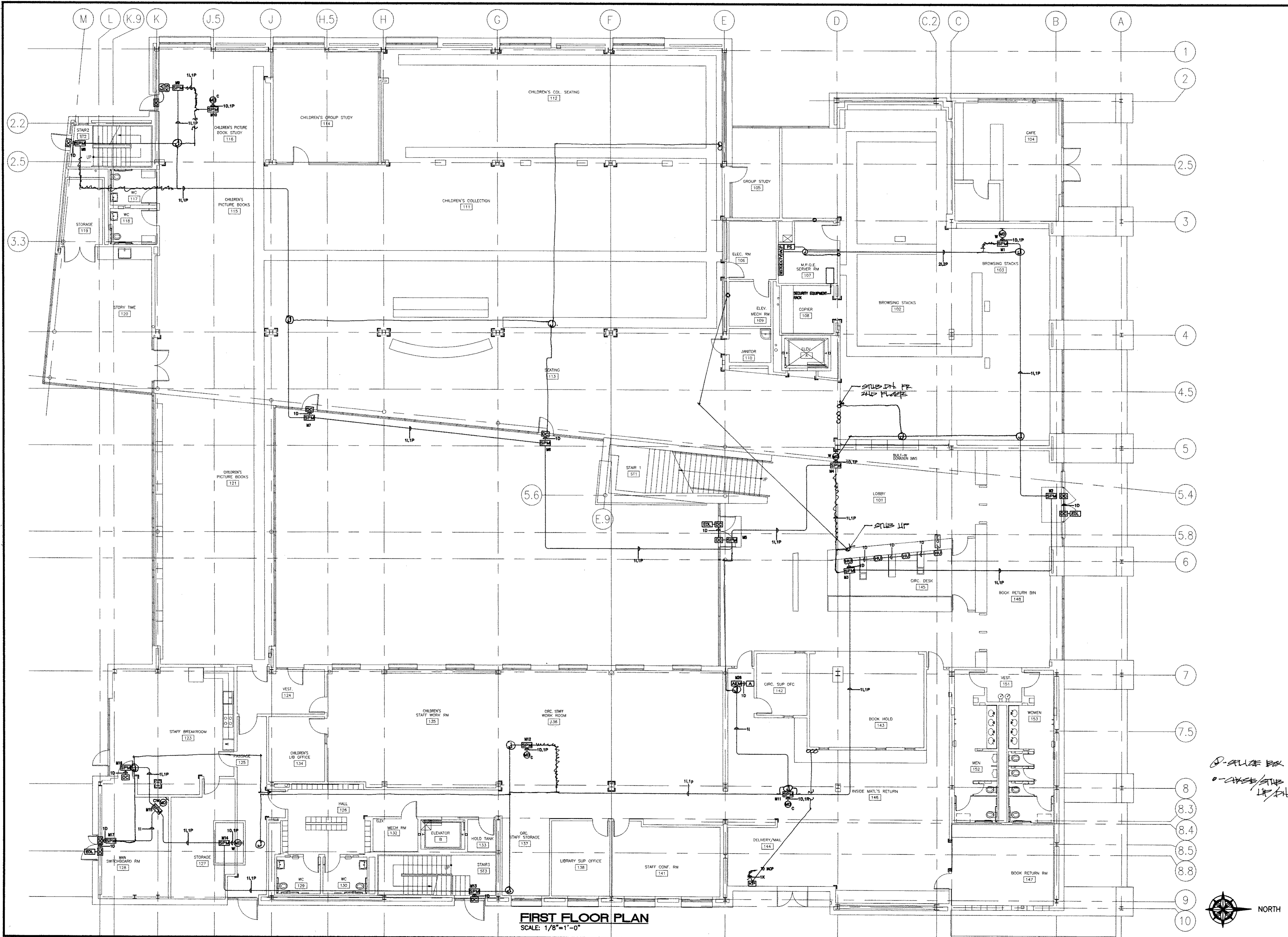
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INTRUSION ALARM SYSTEM
WIRING DIAGRAM

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 File No. : 898-2.02
 Scale : NTS
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 Date : 11-13-2003

Sheet Number :
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TYPICAL WIRING DIAGRAM
 SCALE: N.T.S.



FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

SW
SIGNWEST SYSTEMS
7000 CENTRAL AVE. SUITE D
NEWARK, CA 94580-4808
PH: 910/705-9999
FAX: 910/705-9544
LIC NO. 648074

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C-10
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Phone: (408) 986-1320
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Sheet Title :
INTRUSION ALARM SYSTEM

LIBRARY FIRST FLOOR PLAN

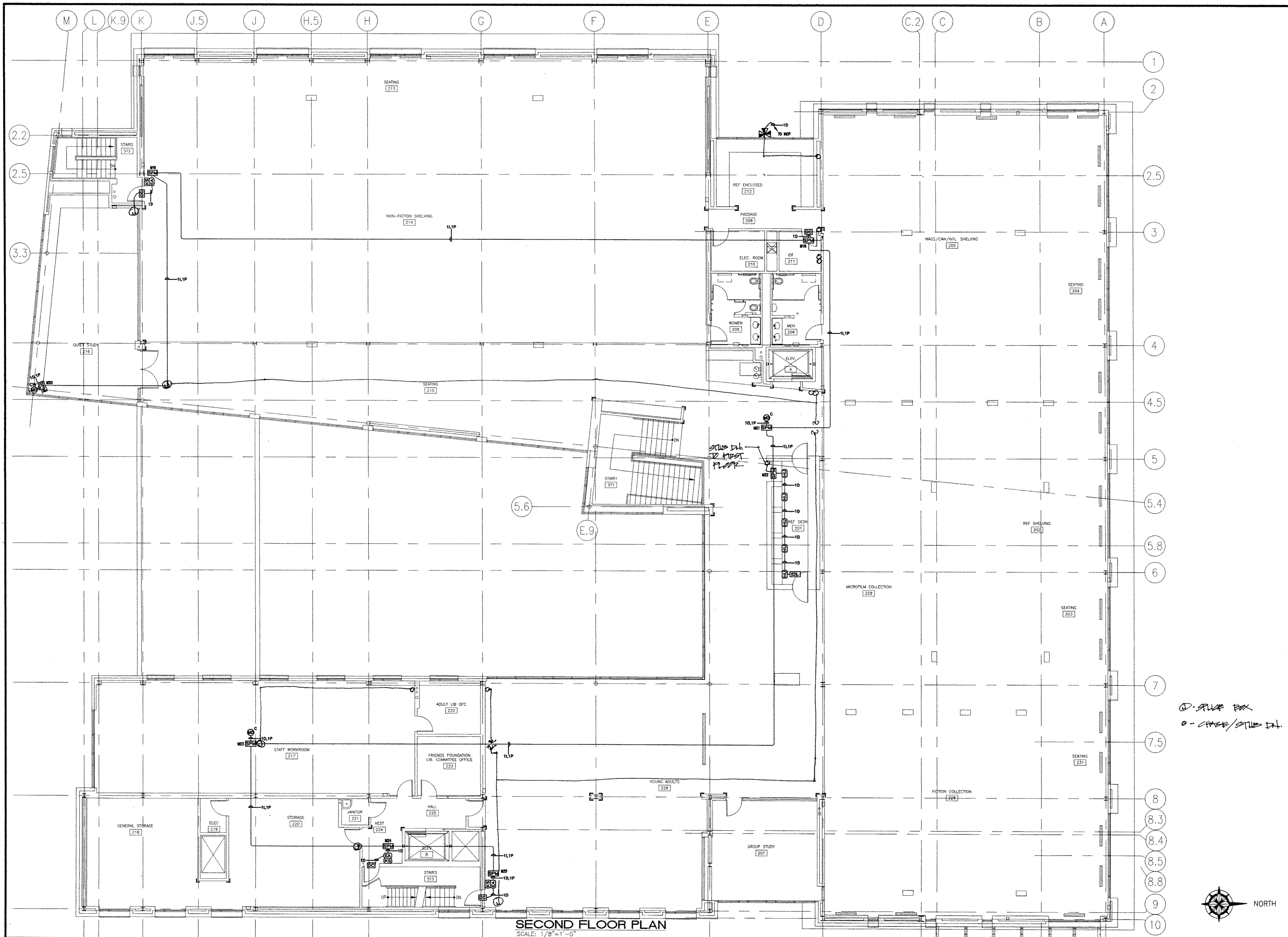
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File No. : 898-3.01
Scale : 1/8"=1'-0"
Drawn by : RB
Checked by : LEO
Date : 11-13-2003

Sheet Number :

IA3.01

*D-CALISE FOR
O-CASE/SITE
L.P.S.H.*





SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

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 FAX: 910/795-9544
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Electrical Contractor :
ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

Approvals :

Revision :

Project Title :
CUPERTINO CMC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :
INTRUSION ALARM SYSTEM

LIBRARY SECOND FLOOR PLAN

SWS No. : 2003-898
 File No. : 898-3.02
 Scale : 1/8"=1'-0"
 Drawn by : RB
 Checked by : LEO
 Date : 11-13-2003

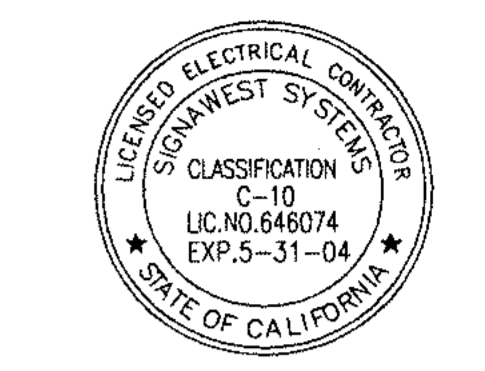
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IA3.02

① - STUBS DET.
 0 - CHANGE/STUBS DET.





SIGNAVEST SYSTEMS
 7300 CENTRAL AVE. SUITE D
 NEWARK, CA 94560-4205
 PH: 910/795-9999
 FAX: 910/795-9944
 LIC NO. 648074



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ELCOR ELECTRIC
 3310 Bassett Street
 Santa Clara, CA 95054
 Phone: (408) 986-1320
 Fax: (408) 986-1324

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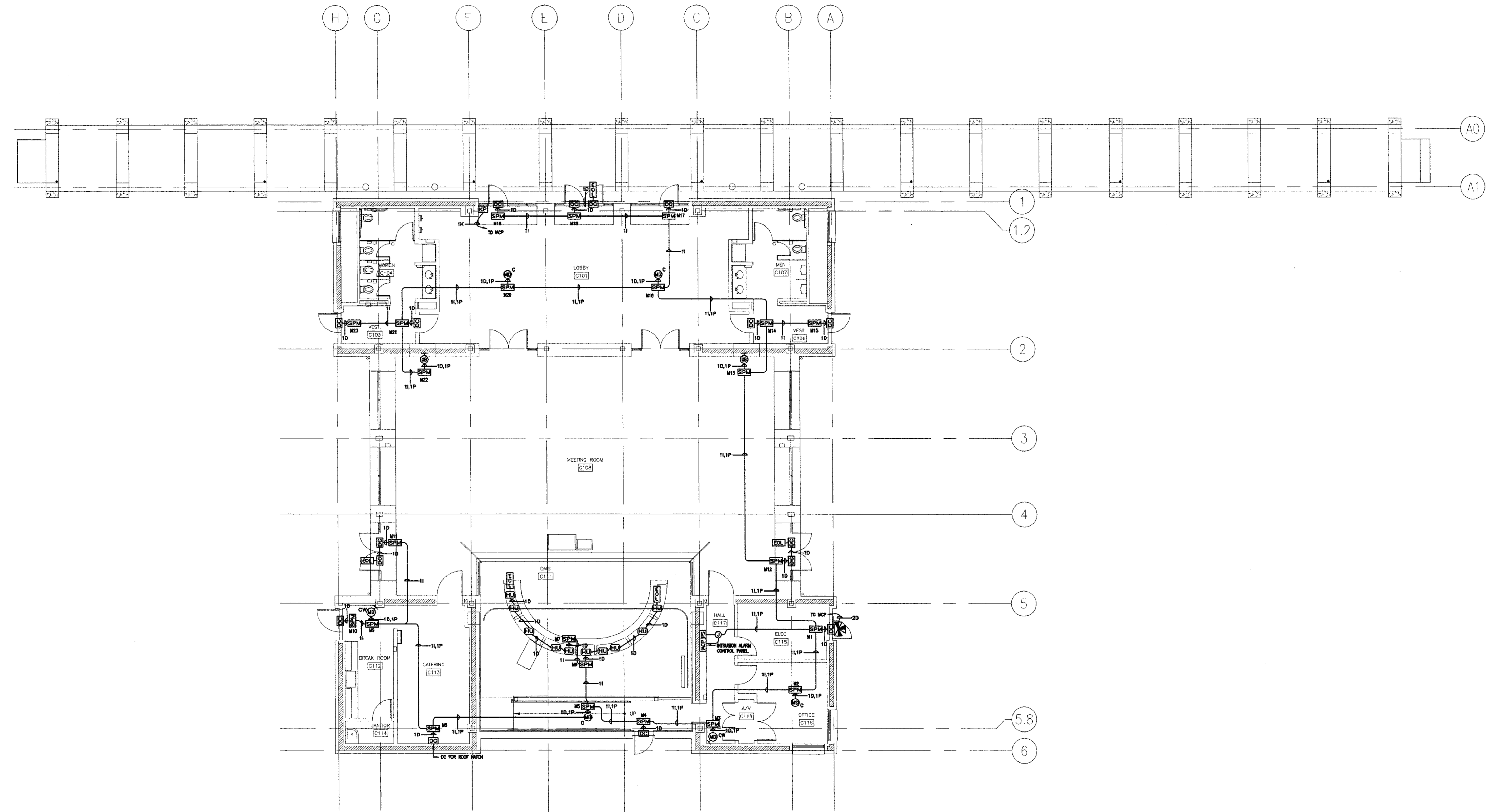
Project Title :
CUPERTINO CMC CENTER
 10400 Torre Avenue
 Cupertino, CA 95014

Sheet Title :
INTRUSION ALARM SYSTEM

COMMUNITY HALL FLOOR PLAN

SWS No. : 2003-898
 File No. : 898-3.03
 Scale : 1/8"=1'-0"
 Drawn by : RB
 Checked by : LEO
 Date : 11-13-2003

Sheet Number :
IA3.03



FIRST FLOOR PLAN
 SCALE: 1/8"=1'-0"



APPENDIX 5
GEOTECHNICAL REPORT

**GEOTECHNICAL INVESTIGATION
(REVISED)
CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California**

City of Cupertino
Cupertino, California

4 November 2002
Project No. 3169.01

4 November 2002
Project 3169.01

Mr. Terry W. Greene, AIA
City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014

Subject: Geotechnical Investigation
(Revised)
Cupertino Library Replacement Project
Cupertino, California

Dear Mr. Greene:

Treadwell & Rollo, Inc. is pleased to present our revised geotechnical investigation report for the proposed Cupertino Library Replacement project in Cupertino, California. This report is in fulfillment of our proposal dated 23 May 2001 and revision dated 18 October 2001.

Our original geotechnical investigation report for this project was submitted on 29 May 2002. At that time, the design was preliminary so our report presented several options for foundation support. After its publication, the design team collectively decided on a foundation type. The current report is a revision of our original report, modified to address demolition of the existing structure and expanded to present details of the selected foundation option. Copies have been distributed as indicated at the end of this report.

Current plans include constructing a replacement library in the approximate location of the existing library; the existing library will be demolished and removed, and the cavity left from its below grade level will be filled. A community hall and new parking are also planned. The new improvements will be at-grade. The replacement library and community hall will be two stories and one story, respectively.

The site is underlain by fill and alluvial deposits consisting of interbedded sand, gravel, clay and silt. The existing fill is present adjacent to the below grade walls of the existing library addition and possibly elsewhere due to past construction activities at the site. To raise the grade, new fill varying from 0 to approximately 14 feet in thickness will be placed.

We recommend the proposed replacement library be supported on foundations gaining support in engineered fill. To provide uniform support, removal and recompaction of the existing fill, where present, and a portion of the native material beneath proposed foundation and slab areas will be required. The community hall can be supported on spread footings gaining support in the native alluvial deposits.

Mr. Terry W. Greene, AIA
City of Cupertino
4 November 2002
Page 2

This summary omits detailed recommendations; therefore, anyone relying on the report must read it in its entirety. Our recommendations are based on a limited subsurface exploration program. Consequently, variations between expected and actual soil conditions may be found in localized areas during construction. We should be retained to observe site excavation and shoring, compaction of backfill, and installation of building foundations, during which time we may make changes to our recommendations, if necessary.

We appreciate the opportunity to assist you with this project.

Sincerely yours,
TREADWELL & ROLLO, INC.



Aimee M. Oillarburu
Civil Engineer

31690201.AMO



Frank J. Rollo
Geotechnical Engineer



**GEOTECHNICAL INVESTIGATION
(REVISED)
CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California**

**City of Cupertino
Cupertino, California**

**4 November 2002
Project No. 3169.01**

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Corrosivity Analysis by CERCO Analytical, Inc.

**GEOTECHNICAL INVESTIGATION
(REVISED)
CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California**

1.0 INTRODUCTION

This report revises the results of the geotechnical investigation report prepared by Treadwell & Rollo, Inc. dated 29 May 2002 for the proposed Cupertino Library Replacement Project in Cupertino, California. The project site is within the existing City Center, southeast of the intersection of Rodrigues and Torre Avenues, as shown on the Site Location Map, Figure 1. The original report has been revised to reflect the final decision regarding foundation type and to address geotechnical issues related to demolition of the existing library.

2.0 PROJECT DESCRIPTION

A grading plan, prepared by Sandis Humber Jones (SHJ), the project civil engineers, indicates the proposed replacement library will be constructed at the location of the existing library, as shown on Figure 2. We understand the replacement library will be two stories high and about 170 by 190 feet in plan. The lowest finish floor will be at Elevation 227.5 feet¹, which is approximately 11.5 feet higher than the lowest (ground) floor level of the existing library. The existing library will be demolished and removed, and the depression will be filled.

The project also includes constructing a high one-story community hall building adjacent to the east side of the depressed lawn area between the existing library and City Hall; it will have plan dimensions of approximately 80 by 85 feet. Surrounding improvements include surface parking, walkways and landscaping areas. The location of the proposed replacement library, community hall and asphalt pavement areas are shown on Figure 2.

¹ Unless otherwise noted, all elevations in this report are referenced to the City of Cupertino datum.

According to Mr. Allen Nudel of Forell/Elsessor Engineers, Inc., the project structural engineer, column loads for the replacement library will be on the order of 285 kips for dead plus live load conditions; maximum total loads, including seismic, will be on the order of 400 kips. The column loads for the community hall will be significantly less, on the order of 26 kips for dead plus live load conditions.

3.0 SCOPE OF SERVICES

The scope of our services was outlined in our proposal dated 23 May 2001 and included only the replacement library and surrounding parking lots. After completing our field exploration and laboratory testing programs, the location of the proposed replacement library was changed, and the project was expanded to include the community hall building. Our scope of services was revised to reflect these changes, as outlined in our letter dated 18 October 2001.

We evaluated subsurface conditions at the site by drilling exploratory borings, collecting bulk samples and performing laboratory tests. Using the results of this and earlier investigations, we performed engineering analyses to develop conclusions and recommendations regarding:

- soil and groundwater conditions at the site
- the most appropriate foundation type(s) for the proposed structures
- design criteria for the recommended foundation type(s)
- estimates of foundation settlement
- subgrade preparation for slab-on-grade floors
- site grading and excavation, including criteria for fill quality and compaction
- flexible pavement design
- site seismicity and seismic hazards
- seismic design in accordance with the 1997 Uniform Building Code (UBC)
- corrosion potential of the near-surface soils
- construction considerations.

We presented the results of our investigation in our report dated 29 May 2002. Because the project plans at the time of our report were preliminary, two options for foundation support of the replacement library were presented in our report. After publication, the design team collectively decided on the foundation type. As part of our services during final design, the City of Cupertino requested our 29 May 2002 report be revised to reflect the selected foundation option (based on the 100 percent design development set of plans).

4.0 FIELD INVESTIGATION

To evaluate subsurface conditions, we reviewed data from previous investigations in the site vicinity, drilled exploratory borings, and collected bulk samples. Details of the field exploration activities are described in the remainder of this section.

4.1 Exploratory Borings

We drilled a total of 14 exploratory borings, designated B-1 through B-14, at the approximate locations shown on the Site Plan, Figure 2. Borings B-1 through B-11 were drilled for the originally sited replacement library and surrounding improvements. After it was relocated, we added borings B-12 through B-14 to explore the new library location.

Borings B-1 through B-9 were drilled between 20 and 22 June 2001 to depths ranging from approximately 11.5 to 41.5 feet below the existing ground surface. Drilling was performed by Bay Area Exploration, Inc. using truck-mounted hollow-stem auger equipment.

Borings B-10 and B-11 were drilled on 5 July 2001 to depths of 20.5 and 19 feet below existing ground surface, respectively. Drilling was performed by Access Drilling, Inc. using a portable minuteman drill rig equipped with solid-flight auger equipment. A portable rig was required to gain access to the depressed lawn area.

Borings B-12 through B-14 were drilled on 21 and 27 November 2001 to depths of about 41 feet below the existing ground surface. Drilling was performed by Exploration Geoservices, Inc. using truck-mounted hollow-stem auger equipment.

Each boring was drilled under the direction of our engineer. During drilling, our engineer logged the borings and obtained samples of the material encountered for visual classification and laboratory testing. Logs of the borings are presented in Appendix A as Figures A-1 through A-14. The material encountered was classified according to the soil classification system described in Appendix A as Figure A-15.

Soil samples were obtained using the following sampler types:

- Sprague and Henwood (S&H) split-barrel sampler with a 3.0-inch outside diameter, and a 2.5-inch inside diameter, lined with brass tubes with an inside diameter of 2.43 inches
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter (with no liners)

The SPT and S&H samplers were driven with a 140-pound, above-ground, safety hammer falling approximately 30 inches. The blow counts required to drive the S&H sampler the final 12 inches of an 18-inch drive were corrected to SPT N-values, and are shown on the boring logs. The conversion factor is dependent on the hammer drop method; factors of 0.9 and 0.6 were used for the automatic and rope-and-pulley methods, respectively. Where the SPT sampler was used, the actual blow counts were recorded and are shown on the boring logs.

After drilling was completed, the borings were backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

4.2 Bulk Samples

Two bulk samples, designated R-1 and R-2, were obtained of the surface soil at the approximate locations shown on the Site Plan, Figure 2. These samples were collected in the originally proposed parking lot areas for resistance value (R-value) testing. R-value test results are used to develop flexible pavement sections.

4.3 Previous Test Borings

As part of this investigation, we reviewed the boring logs from a previous investigation at the project site; the approximate boring locations are shown on the Site Plan, Figure 2. They include eight borings, designated as TA-1 through TA-8, drilled under the direction of Tejima and Associates, Inc., for a report titled, *Geotechnical Investigation, Proposed City Hall and Library Additions, Cupertino, California, For the City of Cupertino*, dated 21 May 1986. For completeness, the logs of the Tejima borings are included in Appendix B.

5.0 LABORATORY TESTING

Soil samples obtained during our field investigation were re-examined to confirm field classifications, and representative samples were selected for testing.

5.1 Geotechnical Laboratory Testing

Selected samples were tested to measure moisture content, dry density, plasticity index, gradation, fines content (percent passing the No. 200 sieve), undrained shear strength, and R-value. The laboratory test results are presented on the boring logs and in Appendix C as Figures C-1 through C-13.

5.2 Soil Corrosivity Testing

To evaluate the corrosivity of the near-surface soil, corrosivity testing was performed on a soil sample from R-2. The corrosivity of the soil sample was evaluated by CERCO Analytical, Inc., of Pleasanton, California, using ASTM Test Methods. The laboratory corrosion test results and corrosivity evaluation are presented in Appendix D. A summary of the corrosivity evaluation is discussed in Section 8.2.

6.0 SITE AND SUBSURFACE CONDITIONS

The project site is on the east side of Torre Avenue between Rodrigues Avenue and Pacifica Drive in Cupertino, California. Cupertino City Hall sits in the northern portion of the site; the existing library occupies the southern portion. There is a depressed lawn area between City Hall and the existing library, and the area along the eastern portion of the site is paved for parking. The Santa Clara Valley Water District's (SCVWD) Regnart Creek borders the eastern edge of the site.

The existing library is two stories high. The lower story is depressed below the adjacent ground surface at approximately Elevation 216 feet. The elevation of the second story coincides with the adjacent ground surface, at approximately Elevation 228.5 feet. Existing ground surface contours are presented on the Site Plan, Figure 2.

The existing library is comprised of an octagon-shaped portion (original construction) and a rectangular addition. We understand the addition, which is on the east side of the original building, was constructed in the late 1980's. From discussions with Mr. Terry Greene of the City of Cupertino, we understand the addition is also a two-story structure; the ground floor of the addition coincides with the ground floor of the existing library. We suspect the below grade portion of the addition was constructed using temporary slopes; therefore, we expect backfill is present behind the existing walls adjacent to the north, east and south sides of the addition. Information regarding fill placement was not available for our review.

The native alluvial deposits present at ground surface and beneath fill, where present, consist of interbedded sand, gravel, clay, and silt to the maximum depth explored. The sand and gravel encountered generally ranges from medium dense to very dense. The clays and silts are stiff to hard. The results of strength tests indicate the materials are strong and incompressible under anticipated building loads.

Groundwater was not encountered in our test borings. A piezometer installed for a nearby project² (Symantec) was dry to a depth of 51 feet. During construction of the basement levels for that project, which extended to a depth of about 45 feet, no groundwater was encountered.

7.0 SEISMIC CONSIDERATIONS

Because the project site is in a seismically active region, we evaluated the potential for earthquake-induced geologic hazards including ground shaking, ground rupture, liquefaction, and differential compaction. The results of our evaluation are discussed in the remaining paragraphs within this section.

7.1 Regional Seismicity

The major active faults in the area are the San Andreas, Hayward, Calaveras and San Gregorio Faults. These and other faults of the region are shown on Figure 3. For each of the active faults, the distance from the site and estimated maximum Moment magnitude³ (Working Group on California Earthquake Probabilities (WGCEP) 1999 and California Division of Mines and Geology (CDMG) 1996) event are summarized in Table 1.

² *Geotechnical Investigation, Symantec CC5 Office Building, Cupertino, California, prepared by Treadwell & Rollo, Inc., dated 10 February 1997*

³ Moment magnitude is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

TABLE 1
Regional Faults and Seismicity

Fault Segment	Approximate Distance from Site (km)	Direction from Site	Maximum Magnitude
Monte Vista	3	Southwest	6.8
San Andreas (1906 Event)	9	Southwest	7.9
San Andreas (Peninsula)	9	Southwest	7.2
San Andreas (Santa Cruz Mountains)	16	South	7.2
Hayward (South East Extension)	19.5	Northeast	6.4
Sargent	21.5	South	6.8
Hayward (Total)	23.5	Northeast	7.1
Southern Hayward	23.5	Northeast	6.9
Northern Calaveras	24	Northeast	7.0
Central Calaveras	24	Northeast	6.6
Zayante-Vergeles	26	South	6.8
San Gregorio (North)	31	Southwest	7.3

Figure 3 also shows the earthquake epicenters for events with magnitude greater than 5.0 from January 1800 through January 1996. Since 1800, four major earthquakes have been recorded on the San Andreas Fault. In 1836 an earthquake with an estimated maximum intensity of VII on the Modified Mercalli (MM) scale (Figure 4) occurred east of Monterey Bay on the San Andreas Fault (Toppozada and Borchardt 1998). The estimated Moment magnitude, M_w , for this earthquake is about 6.25. In 1838, an earthquake occurred with an estimated intensity of about VIII-IX (MM), corresponding to a M_w of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas Fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), a M_w of about 7.9, and was felt 560 kilometers away in Oregon, Nevada,

and Los Angeles. The most recent earthquake to affect the Bay Area was the Loma Prieta Earthquake of 17 October 1989, in the Santa Cruz Mountains with a M_w of 6.9, approximately 34 km from the site.

In 1868 an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward Fault. The estimated M_w for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (probably a M_w of about 6.5) was reported on the Calaveras Fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill earthquake ($M_w = 6.2$).

In 1999, the Working Group on California Earthquake Probabilities (WGCEP 1999) at the U.S. Geologic Survey (USGS) predicted a 70 percent probability of a magnitude 6.7 or greater earthquake occurring in the San Francisco Bay Area by the year 2030. More specific estimates of the probabilities for different faults in the Bay Area are presented in Table 2.

TABLE 2
WGCEP (1999) Estimates of 30-Year Probability (2000 to 2030)
of a Magnitude 6.7 or Greater Earthquake

Fault	Probability (percent)
Hayward-Rodgers Creek	32
San Andreas	21
Calaveras	18
San Gregorio	10

7.2 Geologic Hazards

During a major earthquake on a segment of one of the nearby faults, strong to very strong shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction⁴, lateral spreading⁵ and differential compaction⁶.

7.2.1 Liquefaction, Lateral Spreading, and Differential Compaction

Using the results of the test borings, we evaluated the potential of liquefaction, lateral spreading and differential compaction at the proposed project site. Because the soil is strong and groundwater was not encountered in the borings drilled at the site, the potential for liquefaction and lateral spreading is low.

Cyclic densification of non-saturated sand by earthquake vibrations may cause ground surface settlement. The results of our studies indicate the medium dense sand may undergo densification during strong ground shaking. This densification could result in up to ½ inch of ground surface settlement. Overall earthquake-induced settlements are expected to be erratic due to the non-homogeneity of the alluvial deposits.

7.3 Ground Rupture

Historically, ground surface ruptures closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act and no known active or potentially active faults exist on the site. Therefore,

⁴ Liquefaction is a phenomenon in which saturated, cohesionless soil experiences a temporary loss of strength due to the buildup of excess pore water pressure, especially during cyclic loading such as that induced by earthquakes. Soil most susceptible to liquefaction is loose, clean, saturated, uniformly graded, fine-grained sand and silt of low plasticity that is relatively free of clay.

⁵ Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

⁶ Differential compaction is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing differential settlement.

we conclude the risk of fault offset at the site from a known active fault is low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure is very low.

8.0 DISCUSSION AND CONCLUSIONS

From a geotechnical standpoint, we conclude the site can be developed as proposed provided the design and construction incorporates the recommendations presented in this report. The primary geotechnical concerns are the:

- moderate to heavy column and floor loads
- presence of non-engineered, undocumented existing fill
- need to raise the site grades
- anticipated varying conditions of final soil subgrade
- selection of a foundation system that results in acceptable settlement behavior

Our conclusions regarding these and other issues are discussed in the remaining paragraphs within this section.

8.1 Foundation Type and Settlement

Foundation types and estimated settlement for the replacement library and community hall are discussed in this section.

8.1.1 Replacement Library

Existing fill placed during construction of the library addition likely exists beneath the southeast portion of the replacement library footprint. The lateral and vertical extent of the existing fill and its engineering characteristics are unknown; therefore, predicting settlement behavior and

related building performance for structures supported in the existing fill would be difficult. Because of the lack of information on the fill, we conclude the fill to be "non-engineered" and unsuitable for support of the replacement library. Where present within the proposed building footprint, the existing fill should be removed and replaced with engineered fill.

To raise the grade in the depressed area remaining after demolition and removal of the existing library (finish floor at about Elevation 216 feet) new fill will be required. As currently planned, approximately 11.5 feet of new fill will be placed beneath the majority of the southern portion of the replacement library; where existing library footings are removed, we estimate up to 14 feet of fill may be required. This fill, if properly placed and compacted on either existing recompacted fill or firm natural soil, is suitable for foundation support. Settlement could occur in the native material under the weight of the new fill; however, this settlement should occur as the fill is placed. Additional settlement could occur within the new fill layer as the building loads are applied. We estimate the total static settlement of a properly installed foundation system should be about ½ inch and differential settlement between columns should not exceed ¼ inch.

Where not underlain by fill, the replacement library footprint is underlain by native alluvial deposits consisting of interbedded medium dense to very dense sand and gravel and stiff to hard clay and silt. These materials can support moderate to heavy foundation loads without excessive settlement, and should be adequate for foundation support. However, to provide uniform support, the foundation should bear entirely on natural soil or entirely on engineered fill. The properties of engineered fill and natural soil are different, which could account for unexpected differential movement. To support the library entirely on natural soil, a combination of shallow and deep foundations would be required due to the varying depth to natural soil beneath the building footprint. Alternatively, shallow footings bearing entirely on engineered fill could be used for building support, provided 1) the existing fill, where present beneath the proposed foundation and slab areas, is removed in its entirety and replaced with engineered fill, and 2) a portion of the native soil is recompacted. Recompanying a portion of the native soil should provide a uniform pad of similar material beneath the footings and floor slabs. The selection of a foundation type depends on the depth to natural soil and the decision whether to remove and

recompact the existing fill, where present. Cost and construction duration are other important factors in choosing a foundation type. Both options were presented to the design team; it was collectively decided by the design team to support the replacement library on shallow footings bearing entirely on engineered fill.

Overexcavation of the native soil should extend at least three feet below the bottom of the proposed footings. We understand the bottom of the proposed footings will extend five feet below the finish floor (Elevation 227.5 feet) and bear at roughly Elevation 222.5 feet. Therefore, the overexcavation of native soil should extend to approximately Elevation 219.5 feet. Laterally, the overexcavation should encompass the entire building footprint and extend a minimum of five feet beyond the building perimeter. Considering the estimated building loads and recommended bearing capacities presented in Section 9.2.1, we expect total and differential static settlements associated with footings gaining support in the engineered fill to be less than $\frac{1}{2}$ inch and $\frac{1}{4}$ inch, respectively.

8.1.2 Community Hall

The ground surface within the footprint of the proposed community hall varies from approximately Elevation 223 to 225 feet. The proposed finish floor is at approximately Elevation 226 feet. We anticipate any fills placed beneath the footprint of the community hall will be less than three feet thick. Therefore, we conclude the structure can be supported on a shallow foundation system bearing in the native alluvial deposits. Based on the estimated building loads and the bearing pressures recommended in Section 9.2.2, we expect total and differential static settlements associated with footings gaining support in the native soil to be less than $\frac{1}{2}$ inch and $\frac{1}{4}$ inch, respectively.

8.2 Corrosivity Evaluation

The laboratory corrosion test results indicate that the near surface soil is classified as "moderately corrosive" and precautions should be taken to mitigate the effects of corrosion for all reinforced concrete structures, buried iron, steel, cast iron, ductile iron, galvanized steel and

dielectric coated steel. The corrosion test results along with a brief evaluation by CERCO Analytical, Inc. are presented in Appendix D.

The project mechanical engineer should review the data presented in Appendix D and provide the necessary corrosion protection.

9.0 RECOMMENDATIONS

Our recommendations regarding foundations, site preparation and grading, seismic design and other geotechnical aspects of this project are presented in the remainder of this report.

9.1 Site Preparation and Grading

Site preparation should include demolition of the existing library and removal of all existing pavements, foundations, slabs, and utilities beneath the building pads and proposed parking area. Excavations resulting from the removal of foundations, slabs or underground utilities that extend below the bottom of the proposed foundation/floor level should be cleaned of any loose soil/debris and backfilled with lean concrete or suitable fill material compacted as recommended in this section.

Up to approximately 11.5 feet of engineered fill will be required beneath the majority of the southern portion of the replacement library to raise the current grade to the planned ground floor elevation (from about Elevation 216 feet to 227.5 feet). Where existing library footings are removed, we estimate up to 14 feet of fill may be required. To provide uniform support beneath the new footings and floor slab, a portion of the native soil beneath the northern portion of the replacement library should be overexcavated and placed back as engineered fill; overexcavation of the native soil should extend at least three feet below the base of the proposed footings, corresponding to approximately Elevation 219.5 feet (assuming the proposed footings extend five feet below the finish floor at Elevation 227.5 feet). Existing fill that may be present behind the below grade walls of the library addition and elsewhere from past construction activities at the site

should be removed, and replaced with engineered fill. In addition, the City of Cupertino is requiring that all existing fill encountered outside the proposed footings and slab areas be removed and replaced with engineered fill. The vertical and lateral extent of existing fill is unknown. We anticipate any fill present behind the existing library addition walls will be removed by the grading contractor as the site is sloped temporarily to facilitate demolition of the existing library. Our recommendations for temporary slopes are presented later in this section. Engineered fill should extend at least five feet laterally beyond the replacement library building perimeter.

The adjacent sidewalks, streets and utilities along the sides of the excavation and/or overexcavation should be retained by temporary slopes and/or shoring during excavation.

We anticipate there is sufficient space to slope the sides of the excavation; therefore, temporary, unsupported construction slopes should be feasible. Where temporary slopes are used, they should be no steeper than 1:1 (horizontal to vertical).

The upper eight inches of the subgrade exposed at the bottom of any area requiring fill should be moisture-conditioned to above optimum moisture content, and compacted to at least 90 percent relative compaction⁷. Fill and backfill should be placed in horizontal layers not exceeding eight inches in loose thickness, benched into the native soil, as appropriate, moisture-conditioned to above optimum moisture content and compacted to at least 90 percent relative compaction. Fill deeper than five feet or containing less than 10 percent fines should be compacted to at least 95 percent relative compaction.

From a geotechnical standpoint, on-site soil free of contamination, organic matter, debris and rocks or lumps larger than four inches in greatest dimension is suitable for use as fill or backfill provided it is properly moisture-conditioned. If imported fill is required, it should also be free of organic debris and rocks or lumps larger than four inches in greatest dimension. Imported fill material should be similar to the onsite soil and have a low expansion potential, defined by a

⁷ Relative compaction refers to the in-place dry density of soil expressed a percentage of the maximum dry density of the same material as determined by the ASTM D1557-00 laboratory compaction procedure.

liquid limit less than 25 and a plasticity index (P.I.) lower than 8. Samples of all imported fill should be submitted to the geotechnical engineer for testing at least 72 hours before delivery to the site.

Crushed concrete resulting from demolition of the existing library may be stockpiled, processed to achieve proper gradation, and tested for potential use as Class 2 Aggregate Base beneath paved areas and building pads, aggregate for concrete, drain rock, and trench backfill.

9.2 Footings

Our recommendations for footings for the replacement library and community hall are presented in this section.

All footing excavations should be free of standing water, debris, and disturbed material prior to placing concrete. We should check the footing excavations prior to placing reinforcing steel and also after placing reinforcing steel to check the conditions of the footing excavation. Footing excavations should be maintained in a moist condition until concrete is placed.

9.2.1 Replacement Library Footings

The replacement library can be supported on a shallow foundation system consisting isolated or continuous spread footings, provided engineered fill is present beneath the entire structure, and at least five feet beyond the building footprint, in accordance with the recommendations presented in Section 9.1.

Continuous footings bearing on engineered fill may be designed for allowable bearing pressures of 2,500 psf for dead plus live loads and 3,300 psf for total design loads, which include wind or seismic forces. For design of footings using the subgrade modulus method, we recommend using a modulus of vertical subgrade reaction of 35 pounds per cubic inch (pci). The footings should be well-reinforced, at least two feet wide, and bottomed at least 2 feet below the lowest adjacent ground surface.

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the soil and footing bottoms. To calculate passive resistance, we recommend using an equivalent fluid weight of 250 pounds per cubic foot (pcf). The upper foot of soil should be ignored unless it is confined by a slab. Frictional resistance should be computed using a base friction coefficient of 0.30. If the foundation and slab are underlain by a waterproofing membrane, the base friction coefficient should be reduced to 0.20. These passive pressure and frictional resistance values include a factor of safety of at least 1.5.

9.2.2 Community Hall Footings

The community hall can be supported on isolated or continuous spread footings bearing on the native alluvial deposits. The footings should be well-reinforced, at least two feet wide, and embedded at least two feet below the lowest adjacent ground surface on natural soil. The footings may be designed for allowable bearing pressures of 3,000 pounds per square foot (psf) for dead plus live loads and 4,000 psf for total design loads, which include wind or seismic forces.

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the footings and the supporting soil. To calculate passive resistance, we recommend using an equivalent fluid weight of 300 pounds per cubic foot (pcf). The upper foot of soil should be ignored unless it is confined by a slab. Frictional resistance should be computed using a base friction coefficient of 0.30. If the foundation and slab are underlain by a waterproofing membrane, the base friction coefficient should be reduced to 0.20. These passive pressure and frictional resistance values include a factor of safety of at least 1.5.

9.3 Seismic Design

For seismic design in accordance with the 1997 Uniform Building Code (UBC), we recommend using soil profile type S_D . The site is about 3 kilometers from the Monte Vista Fault, a type B fault and about 9 kilometers from the San Andreas Fault, a type A fault; hence, near-source factors $N_a = 1.20$ and $N_v = 1.47$ should be used.

9.4 Floor Slabs

The replacement library ground floor should be underlain by engineered fill placed in accordance with the requirements in Section 9.1 and may be designed as a slab-on-grade. The community hall floor slab may be supported on the natural soil and/or engineered fill compacted in accordance with requirements in Section 9.1. If the compacted subgrade is disturbed during utility trench or footing excavations, the subgrade should be re-rolled to provide a smooth, firm, non-yielding surface.

To protect the floors against dampness from vapor transmission through the soil and concrete, a vapor barrier should be provided beneath the slabs. A typical moisture prevention barrier would include a capillary moisture break, consisting of at least a four-inch-thick layer of clean, free-draining gravel or crushed rock ($\frac{1}{4}$ to $\frac{3}{4}$ -inch gradation), overlain by a moisture-proof membrane of at least ten mil thickness. The membrane should be covered with two inches of sand to protect it during construction and to aid in curing of concrete. Water should not be allowed to accumulate in the capillary break or sand prior to casting the slab. Alternatively, the gravel capillary moisture break may be eliminated provided a puncture-resistant membrane, such as Moistop, is used.

Where moisture infiltration through the slab is undesirable, we recommend the installation of a waterproofing membrane. The waterproofing membrane should consist of a pre-applied, self-adhering high density polyethylene (HDPE) or high quality bentonite product. The waterproofing membrane under the slab would replace the vapor barrier.

9.5 Flexible Pavement

The State of California resistance value (R-value) method for flexible pavement design was used to develop recommendations for the asphalt concrete pavement section. We understand new surface parking is planned directly east of the replacement library where the existing library addition currently resides. An R-value test was performed on bulk sample R-2 obtained near the planned surface parking area; the test results indicate the material has an R-value of 35. An R-value test was also performed on bulk sample R-1 obtained from the existing parking lot

east of City Hall; the results of this test indicate the material has an R-value of 12. On the basis of our experience, we developed pavement sections using a value of 20.

For design of surface parking and driveways, we assumed a traffic index (TI) of 4.5; this TI assumes passenger car traffic with occasional trucks. For driveway areas that receive moderate truck traffic, a TI of 6.0 was used. Recommended pavement sections for these traffic indices and an R-value of 20 are presented in Table 4.

TABLE 4
Recommended Flexible Pavement Sections
(inches)

	Main Driveway TI = 6.0	Parking Areas TI = 4.5
Asphalt concrete	3.0	2.5
Class II aggregate base	10.5	7.0

Pavement components should conform to the current Caltrans Standard Specifications.

The upper six inches of subgrade soil beneath the pavement should be moisture-conditioned to above optimum moisture content and compacted to at least 95 percent relative compaction to provide a firm, unyielding surface. The aggregate base should also be compacted to at least 95 percent relative compaction.

9.6 Construction Considerations

Site preparation and grading may be difficult if performed during the rainy season. We understand grading operations are scheduled to begin in February 2003. The grading contractor selected for the project should submit a plan that addresses winterizing the site. The plan should account for the type of select fill proposed and the rainy conditions anticipated; it should be submitted to the City of Cupertino and its consultants for approval at least two weeks prior to commencing work.

10.0 ADDITIONAL GEOTECHNICAL SERVICES

During final design we should be retained to consult with the design team as geotechnical questions arise. Prior to construction, we should review the project plans and specifications to check their conformance with the intent of our recommendations. During construction, we should observe site grading, compaction of fill, and installation of the building foundations. These observations will allow us to compare the actual with the anticipated soil conditions and to check that the contractors' work conforms with the geotechnical aspects of the plans and specifications.

11.0 LIMITATIONS

The conclusions and recommendations presented in this report result from limited engineering studies based on our interpretation of the geotechnical conditions existing at the site at the time of this investigation. Actual subsurface conditions may vary. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that described in this report, Treadwell & Rollo, Inc. should be notified to make supplemental recommendations, as necessary.

REFERENCES

California Division of Mines and Geology (1996). "Probabilistic seismic hazard assessment for the State of California." DMG Open-File Report 96-08.

California Division of Mines and Geology (2000). "State of California Seismic Hazard Zones, Zones of Potential for Liquefaction", City and County of San Francisco."

Tejima and Associates, Inc. (1986). "Geotechnical Investigation, Proposed City Hall and Library Additions, Cupertino, California, For the City of Cupertino"

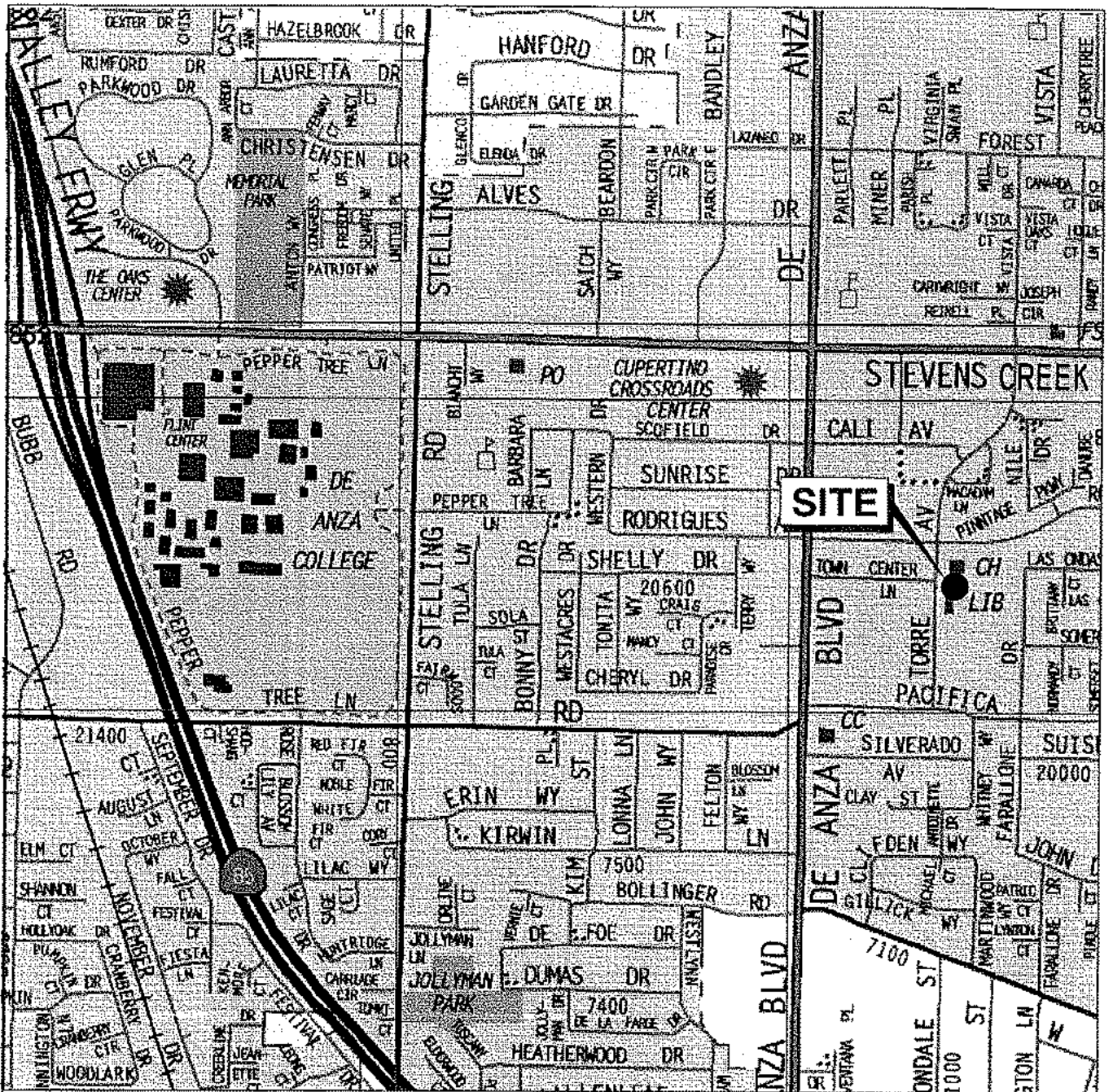
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Topozada, T. R. and Borchardt G. (1998). "Re-Evaluation of the 1836 "Hayward Fault" and the 1838 San Andreas Fault earthquakes." *Bulletin of Seismological Society of America*, 88(1), 140-159.

Working Group on California Earthquake Probabilities (WGCEP) (1999). "Earthquake probabilities in the San Francisco Bay region: 2000 to 2030 – A summary of findings." Open File Report 99-517.

FIGURES



Base map: The Thomas Guide
 Santa Clara County
 1999



No scale

CUPERTINO LIBRARY REPLACEMENT PROJECT
 Cupertino, California

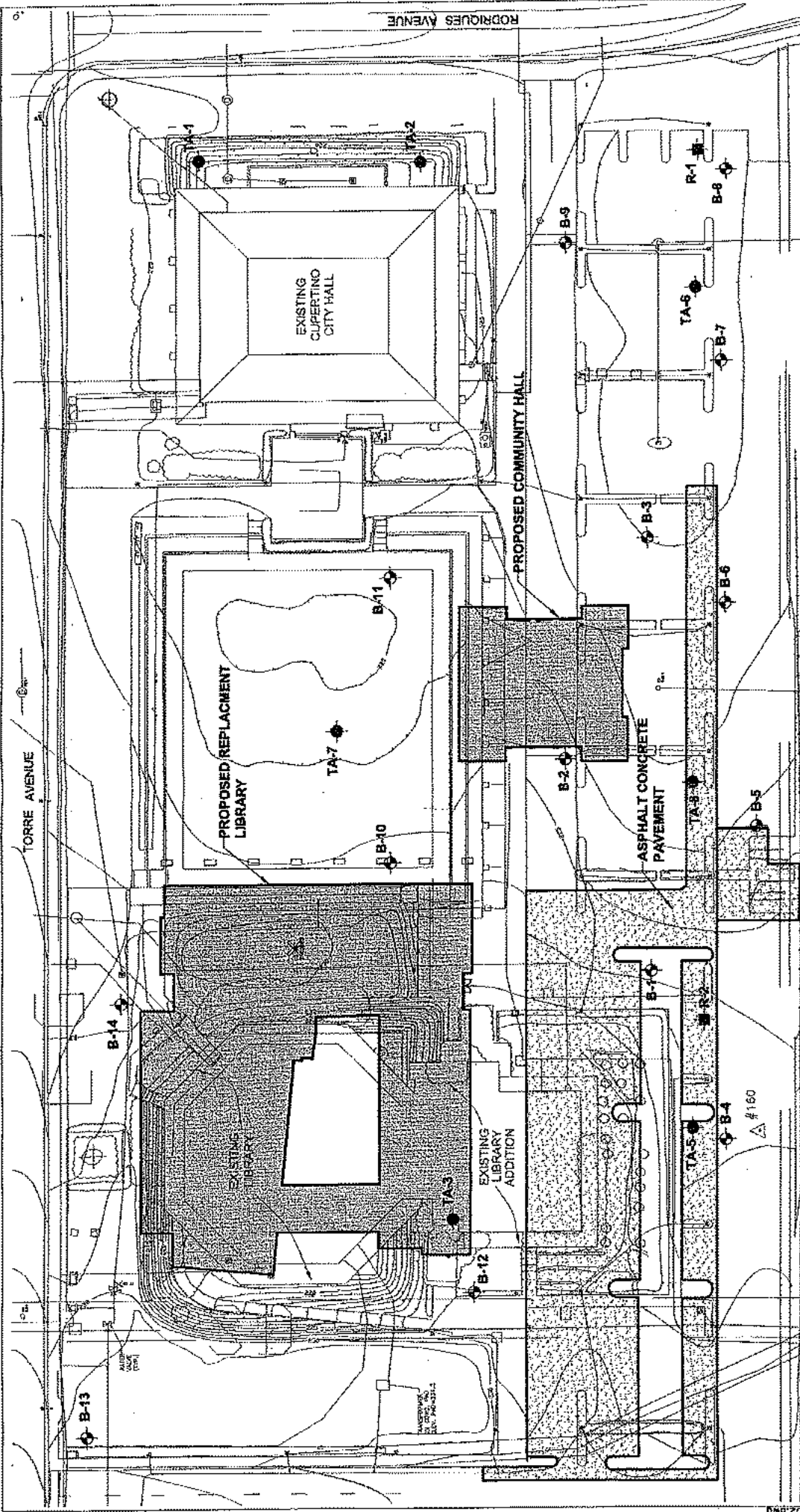
SITE LOCATION MAP

Treadwell&Rollo

Date 01/10/02

Project No. 3169.01

Figure 1



CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

SITE PLAN

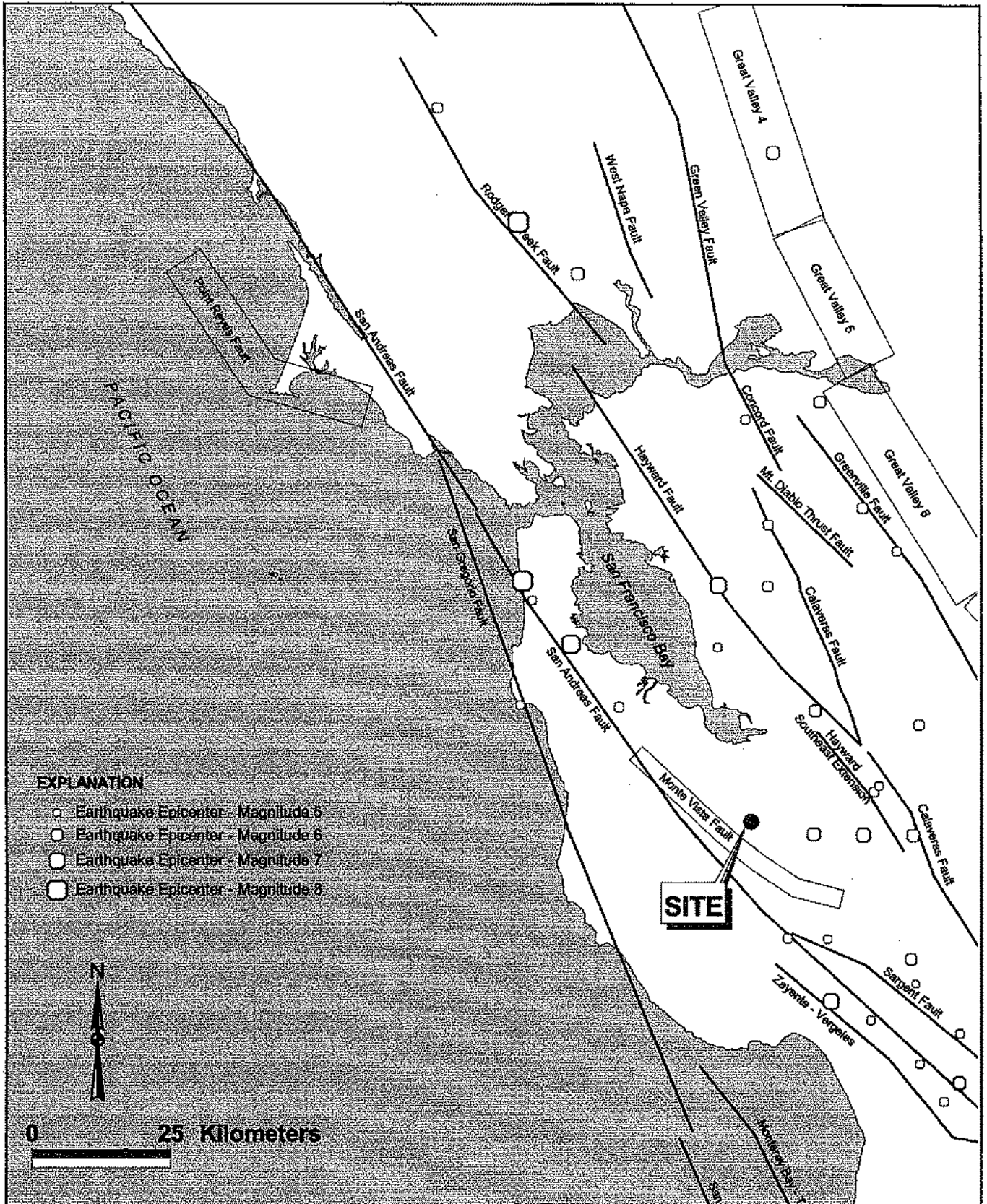
Date 11/4/02 Project No. 3169.01 Figure 2

Treadwell & Rollo



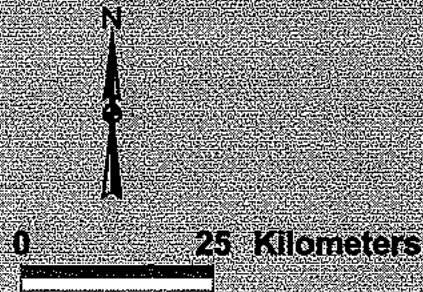
- EXPLANATION**
- Proposed building footprints
 - Proposed asphalt concrete pavement areas

- B-1** Approximate location of boring by Treadwell & Rollo, Inc., June, July and November 2001
 - R-1** Approximate location of bulk sample taken by Treadwell & Rollo, Inc., July 2001
 - TA-1** Approximate location of boring by Tajima and Associates, Inc., March 1986
- Reference: Grading Plan, Cupertino Civic Center, prepared by Sarcia Humbor Jones, dated 12 September 2002



EXPLANATION

- Earthquake Epicenter - Magnitude 5
- Earthquake Epicenter - Magnitude 6
- Earthquake Epicenter - Magnitude 7
- Earthquake Epicenter - Magnitude 8



NOTES:

Digitized data for fault coordinates and earthquake catalog was developed by the California Department of Conservation Division of Mines and Geology. The historic earthquake catalog includes events from January 1800 to January 1996.

CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

**MAP OF MAJOR FAULTS AND
EARTHQUAKE EPICENTERS IN
THE SAN FRANCISCO BAY AREA**

Treadwell & Rollo

Date: 12/14/01

Project No. 3169.01

Figure: 3

- I Not felt by people, except under especially favorable circumstances. However, dizziness or nausea may be experienced.**
Sometimes birds and animals are uneasy or disturbed. Trees, structures, liquids, bodies of water may sway gently, and doors may swing very slowly.
- II Felt indoors by a few people, especially on upper floors of multi-story buildings, and by sensitive or nervous persons.**
As in Grade I, birds and animals are disturbed, and trees, structures, liquids and bodies of water may sway. Hanging objects swing, especially if they are delicately suspended.
- III Felt indoors by several people, usually as a rapid vibration that may not be recognized as an earthquake at first. Vibration is similar to that of a light, or lightly loaded trucks, or heavy trucks some distance away. Duration may be estimated in some cases.**
Movements may be appreciable on upper levels of tall structures. Standing motor cars may rock slightly.
- IV Felt indoors by many, outdoors by a few. Awakens a few individuals, particularly light sleepers, but frightens no one except those apprehensive from previous experience. Vibration like that due to passing of heavy, or heavily loaded trucks. Sensation like a heavy body striking building, or the falling of heavy objects inside.**
Dishes, windows and doors rattle; glassware and crockery clink and clash. Walls and house frames creak, especially if intensity is in the upper range of this grade. Hanging objects often swing. Liquids in open vessels are disturbed slightly. Stationary automobiles rock noticeably.
- V Felt indoors by practically everyone, outdoors by most people. Direction can often be estimated by those outdoors. Awakens many, or most sleepers. Frightens a few people, with slight excitement; some persons run outdoors.**
Buildings tremble throughout. Dishes and glassware break to some extent. Windows crack in some cases, but not generally. Vases and small or unstable objects overturn in many instances, and a few fall. Hanging objects and doors swing generally or considerably. Pictures knock against walls, or swing out of place. Doors and shutters open or close abruptly. Pendulum clocks stop, or run fast or slow. Small objects move, and furnishings may shift to a slight extent. Small amounts of liquids spill from well-filled open containers. Trees and bushes shake slightly.
- VI Felt by everyone, indoors and outdoors. Awakens all sleepers. Frightens many people; general excitement, and some persons run outdoors.**
Persons move unsteadily. Trees and bushes shake slightly to moderately. Liquids are set in strong motion. Small bells in churches and schools ring. Poorly built buildings may be damaged. Plaster falls in small amounts. Other plaster cracks somewhat. Many dishes and glasses, and a few windows break. Knickknacks, books and pictures fall. Furniture overturns in many instances. Heavy furnishings move.
- VII Frightens everyone. General alarm, and everyone runs outdoors.**
People find it difficult to stand. Persons driving cars notice shaking. Trees and bushes shake moderately to strongly. Waves form on ponds, lakes and streams. Water is muddied. Gravel or sand stream banks cave in. Large church bells ring. Suspended objects quiver. Damage is negligible in buildings of good design and construction; slight to moderate in well-built ordinary buildings; considerable in poorly built or badly designed buildings, adobe houses, old walls (especially where laid up without mortar), spires, etc. Plaster and some stucco fall. Many windows and some furniture break. Loosened brickwork and tiles shake down. Weak chimneys break at the roofline. Cornices fall from towers and high buildings. Bricks and stones are dislodged. Heavy furniture overturns. Concrete irrigation ditches are considerably damaged.
- VIII General fright, and alarm approaches panic.**
Persons driving cars are disturbed. Trees shake strongly, and branches and trunks break off (especially palm trees). Sand and mud erupts in small amounts. Flow of springs and wells is temporarily and sometimes permanently changed. Dry wells renew flow. Temperatures of spring and well waters varies. Damage slight in brick structures built especially to withstand earthquakes; considerable in ordinary substantial buildings, with some partial collapse; heavy in some wooden houses, with some tumbling down. Panel walls break away in frame structures. Decayed pilings break off. Walls fall. Solid stone walls crack and break seriously. Wet grounds and steep slopes crack to some extent. Chimneys, columns, monuments and factory stacks and towers twist and fall. Very heavy furniture moves conspicuously or overturns.
- IX Panic is general.**
Ground cracks conspicuously. Damage is considerable in masonry structures built especially to withstand earthquakes; great in other masonry buildings - some collapse in large part. Some wood frame houses built especially to withstand earthquakes are thrown out of plumb, others are shifted wholly off foundations. Reservoirs are seriously damaged and underground pipes sometimes break.
- X Panic is general.**
Ground, especially when loose and wet, cracks up to widths of several inches; fissures up to a yard in width run parallel to canal and stream banks. Landsliding is considerable from river banks and steep coasts. Sand and mud shifts horizontally on beaches and flat land. Water level changes in wells. Water is thrown on banks of canals, lakes, rivers, etc. Dams, dikes, embankments are seriously damaged. Well-built wooden structures and bridges are severely damaged, and some collapse. Dangerous cracks develop in excellent brick walls. Most masonry and frame structures, and their foundations are destroyed. Railroad rails bend slightly. Pipe lines buried in earth tear apart or are crushed endwise. Open cracks and broad wavy folds open in cement pavements and asphalt road surfaces.
- XI Panic is general.**
Disturbances in ground are many and widespread, varying with the ground material. Broad fissures, earth slumps, and land slips develop in soft, wet ground. Water charged with sand and mud is ejected in large amounts. Sea waves of significant magnitude may develop. Damage is severe to wood frame structures, especially near shock centers, great to dams, dikes and embankments, even at long distances. Few if any masonry structures remain standing. Supporting piers or pillars of large, well-built bridges are wrecked. Wooden bridges that "give" are less affected. Railroad rails bend greatly and some thrust endwise. Pipe lines buried in earth are put completely out of service.
- XII Panic is general.**
Damage is total, and practically all works of construction are damaged greatly or destroyed. Disturbances in the ground are great and varied, and numerous shearing cracks develop. Landslides, rock falls, and slumps in river banks are numerous and extensive. Large rock masses are wrenched loose and torn off. Fault slips develop in firm rock, and horizontal and vertical offset displacements are notable. Water channels, both surface and underground, are disturbed and modified greatly. Lakes are dammed, new waterfalls are produced, rivers are deflected, etc. Surface waves are seen on ground surfaces. Lines of sight and level are distorted. Objects are thrown upward into the air.

CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

MODIFIED MERCALLI INTENSITY SCALE

Treadwell & Rollo

Date 12/14/01

Project No. 3169.01

Figure 4

**APPENDIX A
Exploratory Borings**

PROJECT:

**CUPERTINO LIBRARY
REPLACEMENT PROJECT**
Cupertino, California

Log of Boring B-1

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 6/20/01

Date finished: 6/20/01

Drilling method: Hollow Stem

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-value								
1					Surface Elevation: 226 feet ² 4" ASPHALT and 3" BASEROCK						
2				SC	CLAYEY SAND with GRAVEL (SC) red-brown, medium dense, moist					9.9	121
3	S&H		26								
4					SILTY SAND with GRAVEL (SM) brown, medium dense, moist, with fine to medium gravel						
5											
6	S&H		18			TxUU	600	625	8.5		110
7											
8											
9											
10											
11	SPT		24								
12											
13											
14											
15					increasing gravel content						
16	SPT		25								
17				SM							
18											
19											
20											
21	SPT		32		dense						
22											
23											
24											
25											
26	SPT		44								
27											
28											
29											
30											

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Treadwell & Rollo

Project No.: 3169.01 Figure: A-1a

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-1

PAGE 2 OF 2

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA					
	Sampler Type	Sample	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
31	S&H		26	SM	SILTY SAND (SM) red-brown, medium dense, moist			28.6	10.4	92	
32					grading sandy						
33				SM							
34											
35				SM							
36	S&H		23		SANDY SILT with GRAVEL (ML) brown, very stiff, moist						
37				SM							
38					SILTY SAND with GRAVEL (SM) red-brown, very dense, moist						
39				SM							
40											
41	SPT		55								
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											

TEST GEOTECH LOG 816801.GPJ IAR.GDT 2/14/02

Boring terminated at a depth of 41.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.8.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelson Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No.: 3169.01 Figure: A-1b

PROJECT: CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-2

Boring location: See Site Plan, Figure 2
 Date started: 6/20/01 Date finished: 6/20/01
 Drilling method: Hollow Stem
 Hammer weight/drop: 140 lbs./30-inches Hammer type: Safety, Automatic
 Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

Logged by: A. Mencarini

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft	
	Sampler Type	Sample	SPT N-value									
Surface Elevation: 225 feet ²												
1					10" ASPHALT and 3" BASEROCK							
2												
3	SPT		16	SC	CLAYEY SAND with GRAVEL (SC) red-brown, medium dense, moist							
4												
5												
6	SPT		37		dense							
7												
8												
9					SILTY SAND with GRAVEL (SM) brown, very dense, moist							
10												
11	SPT		51	SM								
12												
13												
14												
15												
16	SPT		46		dense							
17												
18												
19					grading clayey							
20												
21	SPT		58		CLAYEY SAND with GRAVEL (SC) brown, very dense, moist							
22												
23												
24												
25	SPT		54	SC								
26												
27												
28												
29												
30												

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Treadwell & Rollo

Project No.: 3169.01 Figure: A-2a

PROJECT:

**CUPERTINO LIBRARY
REPLACEMENT PROJECT**
Cupertino, California

Log of Boring B-2

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA													
	Sampler Type	Sample	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft								
31	SPT		15	ML	SANDY SILT (ML) red-brown, stiff to very stiff, moist														
32																			
33					SAND (SP) brown, medium dense, moist														
34				SP															
35																			
36	S&H		29		SILTY SAND with GRAVEL (SM) red-brown, medium dense, moist														
37				SM															
38					SILTY SAND (SM) red-brown, dense, moist														
39																			
40				SM															
41	SPT		34																
42																			
43																			
44																			
45																			
46																			
47																			
48																			
49																			
50																			
51																			
52																			
53																			
54																			
55																			
56																			
57																			
58																			
59																			
60																			

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring terminated at a depth of 41.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.9.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No.: 3169.01 Figure: A-2b

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-3

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 6/21/01

Date finished: 6/22/01

Drilling method: Hollow Stem

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

LABORATORY TEST DATA

Sampler: Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value								
1					Surface Elevation: 222 feet ¹						
2					10" ASPHALT, 3" BASE ROCK						
3	SPT		44	CL	SANDY CLAY with GRAVEL (CL) brown, hard, moist						
4											
5											
6	SPT		44								
7											
8											
9											
10											
11	SPT		49								
12											
13											
14											
15											
16	SPT		36								
17											
18											
19					CLAYEY SAND with GRAVEL (SC) brown, very dense, moist						
20	SPT		50/ 4"	SC							
21											
22											
23											
24											
25											
26	SPT		53		grading light brown						
27											
28											
29											
30				SM	SILTY SAND (SM) red-brown, medium dense, moist						

TEST SEOTECH LOG 316901.GPJ TRR.GDY 2/14/02

Treadwell & Rollo

Project No.:

3169.01

Figure:

A-3a

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-3

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA					
	Sampler Type	Sample	SPT N-Value			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Finis %	Natural Moisture Content %	Dry Density Lbs/Cu Ft
31	SPT		20	SM	SILTY SAND (SM) (continued)						
32											
33											
35				SM	SILTY SAND (SM) (continued)						
36	SPT		28								
37											
38											
39											
40				SM	SILTY SAND (SM) (continued)						
41	SPT		27								
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring terminated at a depth of 41.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Neisen Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No.: 3169.01

Figure: A-3b

PROJECT:

**CUPERTINO LIBRARY
REPLACEMENT PROJECT**
Cupertino, California

Log of Boring B-4

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 6/22/01

Date finished: 6/22/01

Drilling method: Hollow Stem

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

LABORATORY TEST DATA

Sampler: Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value								
					Surface Elevation: 227 feet ¹						
1					4" ASPHALT; 3" BASE ROCK						
2					CLAYEY SAND with GRAVEL (SC) red-brown, medium dense, moist						
3	SPT		20								
4											
5				SC	dense						
6	SPT		22								
7											
8											
9											
10											
11	SPT		49								
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Boring terminated at a depth of 11.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No.: 3169.01

Figure: A-4

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-5

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 6/22/01

Date finished: 6/22/01

Drilling method: Hollow Stem

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

Sampler: Standard Penetration Test (SPT), Sprague & Henwood (S&H)

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value ¹								
Surface Elevation: 224 feet ²											
1					4" ASPHALT; 3" BASE ROCK						
2											
3	SPT		9		SANDY CLAY (CL) red-brown, stiff, moist LL = 26, PI = 10, See Figure B-1				57.0		
4											
5											
6	SPT		16	CL	grading more sand, very stiff LL = 27, PI = 10, See Figure B-1						
7											
8											
9											
10											
11	S&H		19			TxUU	1,100	1,720		18.0	99
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Boring terminated at a depth of 11.5 feet below ground surface.

Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.8.

² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No.: 3169.01

Figure:

A-5

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring location: See Site Plan, Figure 2
 Date started: 6/22/01 Date finished: 6/22/01
 Drilling method: Hollow Stem
 Hammer weight/drop: 140 lbs./30-inches Hammer type: Safety, Automatic
 Sampler: Standard Penetration Test (SPT)

Logged by: A. Mencarini

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shaar Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-value								
Surface Elevation: 222.5 feet ¹											
1					4" ASPHALT, 3" BASE ROCK						
2											
3	SPT		28		CLAYEY SAND with GRAVEL (SC) red-brown, medium dense, moist						
4											
5											
6	SPT		52	SC	grading brown, very dense						
7											
8											
9											
10											
11	SPT		29		medium dense to dense						
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Boring terminated at a depth of 11.5 feet below ground surface.
 Groundwater not encountered during drilling.
 Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

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Project No.: 3169.01

Figure:

A-6

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

PROJECT: CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-7

Boring location: See Site Plan, Figure 2
 Date started: 6/22/01 Date finished: 6/22/01
 Drilling method: Hollow Stem
 Hammer weight/drop: 140 lbs./30-inches Hammer type: Safety, Automatic
 Sampler: Sprague & Herwood (S&H), Standard Penetration Test (SPT)

Logged by: A. Mencarini

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value ¹								
Surface Elevation: 222 feet ²											
1					8" ASPHALT, 8" BASE ROCK						
2											
3	SPT	▲	15	ML	SANDY SILT (ML) red-brown, stiff to very stiff, moist						
4											
5											
6	S&H	■	37		grading more sandy, hard						
7											
8											
9											
10				SM	SILTY SAND with GRAVEL (SM) red-brown, medium dense, moist						
11	SPT	▲	41								
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring terminated at a depth of 11.5 feet below ground surface.
 Groundwater not encountered during drilling.
 Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.8.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

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Project No.: 3169.01 Figure: A-7

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-8

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 6/22/01

Date finished: 6/22/01

Drilling method: Hollow Stem

Hammer weight/drop: 140 lbs /30-inches

Hammer type: Safety, Automatic

LABORATORY TEST DATA

Sampler: Sprague & Herwood (S&H), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-value ¹								
					Surface Elevation: 222 feet ²						
1					4" ASPHALT; 3" BASE ROCK						
2											
3	SPT		3		SILTY SAND (SM) red-brown, very loose, moist, with some gravel						
4											
5											
6	SPT		15	SM	increasing gravel content, medium dense						
7											
8											
9											
10											
11	S&H		30		dense						
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Boring terminated at a depth of 11.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.8.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Neisen Engineering, dated July 2001. (City of Cupertino datum).

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Project No.: 3169.01

Figure:

A-8

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-9

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 6/22/01

Date finished: 6/22/01

Drilling method: Hollow stem

Hammer weight/drop: 140 lbs /30-inches

Hammer type: Safety, Automatic

LABORATORY TEST DATA

Sampler: Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value								
1					Surface Elevation: 222.5 feet ¹						
2					10" ASPHALT; 3" BASE ROCK						
3	SPT	▲	22		SANDY SILT (ML) red-brown, very stiff, moist						
4											
5											
6	SPT	▲	29	ML							
7											
8											
9											
10											
11	SPT	▲	24		with some fine gravel						
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

TEST GEOTECH LOG 316901.OPJ T&R.GDT 2/14/02

Boring terminated at a depth of 11.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001, (City of Cupertino datum).

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Project No.: 3169.01

Figure:

A-9

Boring location: See Site Plan, Figure 2
 Date started: 7/5/01 Date finished: 7/5/01
 Drilling method: Solid Flight
 Hammer weight/drop: 140 lbs./30-inches Hammer type: Safety, Rope & Pulley

Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA					
	Sampler Type	Sample	SPT N-value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
Surface Elevation: 222 feet ²											
1					SANDY CLAY with GRAVEL (CL) brown with tan and green mottling, hard						
2				CL							
3	S&H		32						7.6	124	
4											
5				SC	CLAYEY SAND with GRAVEL (SC) brown, dense, moist						
6	S&H		37			TxUU	600	840	9.6	118	
7											
8				SM	SILTY SAND with GRAVEL (SM) brown, medium dense, moist						
9											
10											
11	SPT		25								
12											
13											
14											
15											
16	SPT		28								
17											
18											
19											
20	SPT		50/ 5"		very dense						
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring terminated at a depth of 20.5 feet below ground surface.
 Groundwater not encountered during drilling.
 Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.6.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

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Project No.: 3169.01 Figure: A-10

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-11

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: A. Mencarini

Date started: 7/5/01

Date finished: 7/5/01

Drilling method: Solid Flight

Hammer weight/drop: 140 lbs /30-inches

Hammer type: Safety, Rope & Pulley

LABORATORY TEST DATA

Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-value ¹								
Surface Elevation: 220 feet ²											
1											
2											
3	S&H		37		CLAYEY SAND with GRAVEL (SC) brown, dense, moist	TxUU	300	890		13.2	120
4				SC							
5											
6	S&H		16		SANDY CLAY (CL) brown, stiff to very stiff, moist, with some gravel	TxUU TxUU	550 600	365 1,090		12.6 20.5	115 105
7				CL							
8											
9					SAND with GRAVEL and SILT (SW-SM) brown, dense, moist, with some clay						
10											
11	S&H		43		Particle Size Analysis, See Figure C-2				6.5	6.8	109
12											
13				SW-SM							
14											
15	SPT		50/ 5"		very dense						
16											
17											
18	SPT		50/ 5"								
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring terminated at a depth of 19 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.8.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No.: 3169.01

Figure: A-11

Boring location: See Site Plan, Figure 2

Logged by: J. Hernandez

Date started: 11/21/01

Date finished: 11/21/01

Drilling method: Hollow stem,

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

Sampler: Standard Penetration Test (SPT), Sprague & Henwood (S&H)

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES		LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample SPT N-Value								
1				CLEAN SAND (trench backfill) at 1 foot						
2				SAND with SILT and GRAVEL and CLAY (SP-SM) brown, very dense, moist						
3										
4										
5			SP-SM							
6	S&H	50					9.8	5.9	117	
7										
8										
9				SILTY SAND with CLAY (SM) brown, dense, moist, with roots and some gravel						
10			SM				46.9	11.7		
11	SPT	32								
12										
13										
14				SANDY GRAVEL (GP) gray-brown, very dense, dry						
15			GP							
16	SPT	50/6"								
17										
18				CLAYEY SILT with SAND (ML) brown, hard, moist						
19										
20			ML							
21	S&H	60					80.3	17.9	109	
22										
23										
24				SILTY SAND/SANDY SILT (SM/ML) brown, dense/hard, moist, with clay						
25			SM-ML							
26	S&H	35					49.1	16.0		
27										
28										
29			SP-SM	SAND with SILT (SP-SM) brown, dense, moist,						
30										

FILL

TEST GEOTECH LOG 316901.GPJ T&R_GDT 2/14/02

Treadwell & Rollo

Project No.: 3169.01

Figure: A-12a

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-12

PAGE 2 OF 2

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA					
	Sampler Type	Sample	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
31	SPT		32	SP-SM	SAND with SILT (SP-SM) (continued)			5.9	4.0		
32											
33				SM	SILTY SAND (SM) brown, medium dense to dense, moist						
34											
35				SM							
36	S&H		29					33.6	13.9	93	
37				SP-SC							
38						SAND with CLAY (SP-SC) brown, medium dense, moist, with clay pockets					
39				SP-SC							
40											
41	SPT		26								
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

Boring terminated at a depth of 41.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.9.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Nelsen Engineering, dated July 2001. (City of Cupertino datum).

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Project No.: 3169.01	Figure: A-12b
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PROJECT:

**CUPERTINO LIBRARY
REPLACEMENT PROJECT**
Cupertino, California

Log of Boring B-13

PAGE 1 OF 2

Boring location: See Site Plan, Figure 2

Logged by: J. Hernandez

Date started: 11/21/01

Date finished: 11/21/01

Drilling method: Hollow stem

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

LABORATORY TEST DATA

Sampler: Standard Penetration Test (SPT), Sprague & Henwood (S&H)

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value								
Surface Elevation: 231.5 feet ²											
1					SILTY SAND with CLAY (SM) brown, medium dense, moist, with some fine gravel						
2											
3											
4				SM							
5											
6	S&H		16			TxUU	1,000	1,910	47.6	15.0	107
7											
8											
9					SANDY SILT with CLAY (ML) brown, very stiff, moist						
10											
11	SPT		17	ML					57.5	17.5	
12											
13											
14					SILTY SAND with CLAY (SM) brown, medium dense, moist, with some gravel and trace organics						
15											
16	S&H		24	SM		TxUU	1,500	540	45.6	13.7	89
17											
18											
19					CLAY with SILT and SAND (CL) brown, hard, moist						
20											
21	SPT		57						87.8	17.2	
22				CL							
23											
24											
25											
26	S&H		66/ 5"								
27					GRAVELLY SAND (SP) brown, very dense, moist						
28				SP							
29											
30											

TESTI.GEOTECH.LOG 316901.GPJ TMR.GDT 2/14/02

Treadwell & Rollo

Project No.: 3169.01

Figure: A-13a

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-13

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA					
	Sampler Type	Sample	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
31	SPT		21	SM-ML	SILTY SAND/SANDY SILT (SM/ML) brown, medium dense/very stiff, moist, with some large gravel			49.1	13.0		
32											
33				CL	SANDY CLAY (CL) brown, stiff to very stiff, moist			52.7	18.1		
34											
35				CL	very stiff						
36	SPT		15								
37											
38											
39											
40											
41	SPT		18								
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											

TEST GEOTECH LOG 316901.GPJ TRR.GDT 2/14/02

Boring terminated at a depth of 41.5 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.9.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Naisen Engineering, dated July 2001. (City of Cupertino datum).

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Project No.: 3169.01 Figure: A-13b

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-14

PAGE 1 OF 2

Boring location: See Site Plan, Figure 2

Logged by: J. Hernandez

Date started: 11/27/01

Date finished: 11/27/01

Drilling method: Hollow stem

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Safety, Automatic

Sampler: Standard Penetration Test (SPT), Sprague & Henwood (S&H)

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	Sampler Type	Sample	SPT N-Value								
					Surface Elevation: 227 feet ²						
1					SILTY SAND (SM) brown, very dense, moist, with fine gravel						
2											
3											
4				SM							
5											
6	S&H		61			TxUU	1,000	1,330	38.2	12.7	114
7											
8											
9					CLAYEY SAND with GRAVEL (SC) brown, dense, moist						
10											
11	S&H		36	SC					28.7	9.1	119
12											
13											
14					GRAVEL with SILT and SAND (GP-GM) brown, dense, moist						
15											
16	SPT		45		Particle Size Analysis, See Figure C-2				9.5	3.9	
17											
18											
19											
20											
21	SPT		64	GP-GM	very dense						
22											
23											
24											
25											
26	SPT		75								
27											
28											
29				CL	SANDY CLAY (CL) brown, very stiff, moist						
30											

TEST GEOTECH LOG 316921.GPJ T&R.GDT 2/14/02

Treadwell & Rollo

Project No.:

3169.01

Figure:

A-14a

PROJECT:

CUPERTINO LIBRARY
REPLACEMENT PROJECT
Cupertino, California

Log of Boring B-14

DEPTH (feet)	SAMPLES			LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA					
	Sampler Type	Sample	SPT N-Value ¹			Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content %	Dry Density Lbs/Cu Ft
31	SPT		19	CL	SANDY CLAY (CL) (continued)			71.0	22.7		
32											
34				GP-GM	GRAVEL with SILT and SAND (GP-GM) brown, medium dense, moist						
35											
36	S&H		25			Particle Size Analysis, See Figure C-2			7.2	5.2	115
40	SPT		50/ 4"		very dense						
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											

Boring terminated at a depth of 40.4 feet below ground surface.
Groundwater not encountered during drilling.
Boring backfilled with cement-bentonite grout as required by the Santa Clara Valley Water District.

¹ S&H blow counts converted to SPT N-values using a factor of 0.9.
² Elevations based on Topographic Survey, Cupertino Civic Center, prepared by Neisen Engineering, dated July 2001. (City of Cupertino datum).

Treadwell & Rollo

Project No. 3169.01

Figure: A-14b

TEST GEOTECH LOG 316901.GPJ T&R.GDT 2/14/02

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions	Symbols	Typical Names
Coarse-Grained Soils <small>(more than half of soil > no. 200 sieve size)</small>	Gravels <small>(More than half of coarse fraction > no. 4 sieve size)</small>	GW Well-graded gravels or gravel-sand mixtures, little or no fines
		GP Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM Silty gravels, gravel-sand-silt mixtures
		GC Clayey gravels, gravel-sand-clay mixtures
	Sands <small>(More than half of coarse fraction < no. 4 sieve size)</small>	SW Well-graded sands or gravelly sands, little or no fines
		SP Poorly-graded sands or gravelly sands, little or no fines
		SM Silty sands, sand-silt mixtures
		SC Clayey sands, sand-clay mixtures
Fine-Grained Soils <small>(more than half of soil < no. 200 sieve size)</small>	Silts and Clays <small>LL = < 50</small>	ML Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL Organic silts and organic silt-clays of low plasticity
	Silts and Clays <small>LL = > 50</small>	MH Inorganic silts of high plasticity
		CH Inorganic clays of high plasticity, fat clays
		OH Organic silts and clays of high plasticity
Highly Organic Soils	PT Peat and other highly organic soils	

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4	76.2 to 4.76
	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.074
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40	2.00 to 0.420
	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

SAMPLE DESIGNATIONS/SYMBOLS

- Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered
- Classification sample taken with Standard Penetration Test sampler
- Undisturbed sample taken with thin-walled tube
- Disturbed sample
- Sampling attempted with no recovery
- Core sample
- Unstabilized groundwater level
- Stabilized groundwater level

SAMPLER TYPE

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> C Core barrel CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube | <ul style="list-style-type: none"> PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

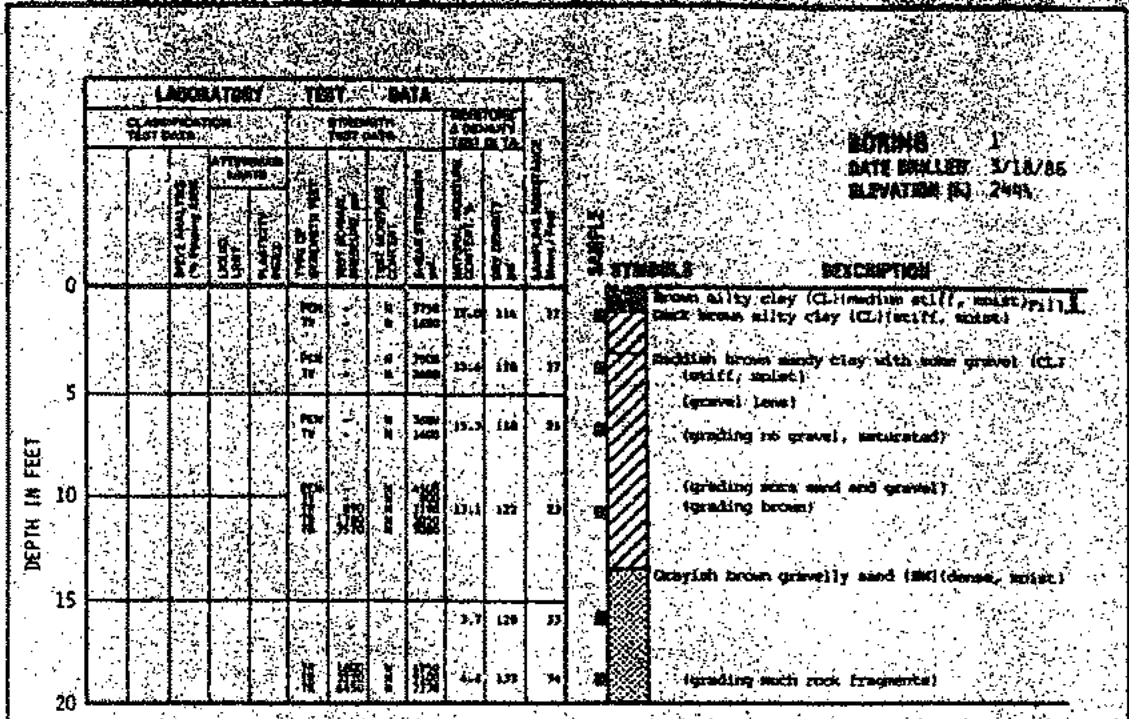
CLASSIFICATION CHART

Treadwell & Rollo

Date 01/10/02	Project No. 3169.01	Figure A-15
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**APPENDIX B
Previous Test Borings**

If this image appears cut-off or is not as legible as this overlay, it's due to the poor quality of the original document



BORING 1
DATE BORED 3/18/86
ELEVATION (EG) 2445

FIELD NOTES:

- The borings were drilled on March 18 and 19, 1986 with truck-mounted, power-driven, 6-inch diameter, flight auger equipment.
- The following symbol, , denotes an undisturbed sample taken in a 2-inch diameter, split-spoon barrel driven into the soil by 350-pound slip jaws falling 24 inches inside the boring.
The following symbol, , denotes an attempted undisturbed sample with no recovery or with the sample partially disturbed.
The following symbol, , denotes a bulk (disturbed) sample.
- Boring elevations were estimated by interpolation between the site plan contours.
- Groundwater was not encountered in any borings.

LABORATORY NOTES AND ABBREVIATIONS:

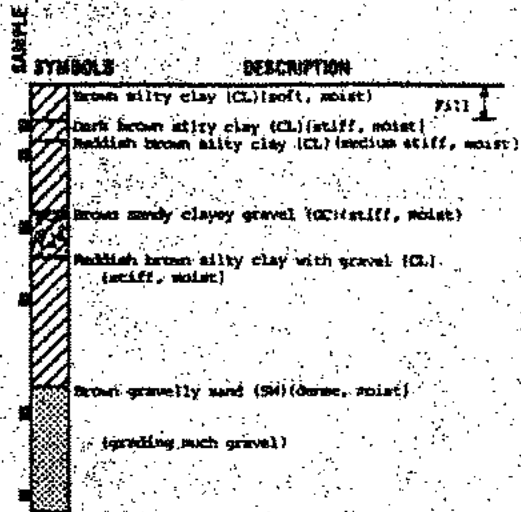
- The tabular shear strengths are positive values.
- SC = Strain controlled, unconsolidated, undrained triaxial test at natural moisture content.
 - PM = Pocket penetrometer test at natural moisture content.
 - TV = Pocket torvane shear test at natural moisture content.

LOG OF BORING

Tejima and Associates, Inc.
GEOTECHNICAL ENGINEERS AND SURVEYORS

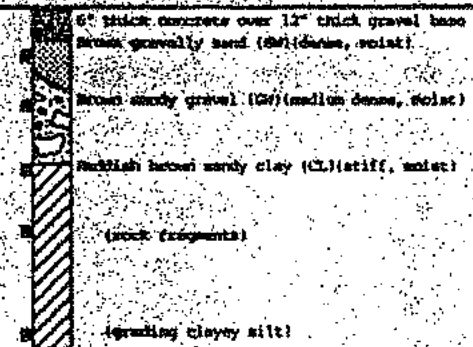
LABORATORY TEST DATA										
CLASSIFICATION TEST DATA				HYDRO-MECHAN TEST DATA				MOISTURE & PLASTICITY TEST DATA		
DEPTH IN FEET	SOIL ANALYSIS (N. P. & A. S. 147)	ASTM D 1585 (N. P. & A. S. 147)		TYPE OF STRAIN RATE TEST	TEST RESULTS (P. & A. S. 147)	TEST MOISTURE CONTENT (%)	SH-LL STRENGTH (%)	NATURAL MOISTURE CONTENT (%)	PLASTICITY INDEX (PI)	CLASSIFICATION (N. P. & A. S. 147)
		LIQUID LIMIT (%)	PLASTIC LIMIT (%)							
0										
1							2600	17.4	114	13
2							300	16.4	118	4
5							1500	14.0	127	25
10							1800	14.2	114	23
15							1700	7.3	123	30
20								3.9	117	8

BORING 2
DATE DRILLED 3/18/86
ELEVATION (N) 224



DEPTH IN FEET	SOIL ANALYSIS (N. P. & A. S. 147)	ASTM D 1585 (N. P. & A. S. 147)		TYPE OF STRAIN RATE TEST	TEST RESULTS (P. & A. S. 147)	TEST MOISTURE CONTENT (%)	SH-LL STRENGTH (%)	NATURAL MOISTURE CONTENT (%)	PLASTICITY INDEX (PI)	CLASSIFICATION (N. P. & A. S. 147)
		LIQUID LIMIT (%)	PLASTIC LIMIT (%)							
0										
1							6.2	127	20	
5							1400	6.2	121	15
10							1800	10.2	120	27
15							1900	10.3	119	24
20							2200	21.8	105	37

BORING 3
DATE DRILLED 3/19/86
ELEVATION (N) 217



LOG OF BORING

Tejima and Associates, Inc.
GEOTECHNICAL ENGINEERS AND GEOLOGISTS

LABORATORY TEST DATA											
CLASSIFICATION TEST DATA				STRENGTH TEST DATA				MOISTURE & DENSITY TEST DATA			
DEPTH IN FEET	SIEVE ANALYSIS (% Passing No. 20)	ATTERBURG LIMITS		TYPE OF STRAINING TEST	TEST METHOD	TEST MOISTURE CONTENT (%)	UNSATURATED WATER STRENGTH (psi)	NATURAL MOISTURE CONTENT (%)	SATURATED MOISTURE CONTENT (%)	WET DENSITY (pcf)	MOISTURE RESISTANCE (lb/in ²)
		LIQUID LIMIT (%)	PLASTICITY INDEX								
0				20	1	32	100	11.4	123	8	
5				20	1	32	100	9.2	122	13	
10								9.3	124	23	
15								6.6	125	33	

BORING 5
DATE DRILLED 3/19/86
ELEVATION (ft) 228

SAMPLE	SYMBOLS	DESCRIPTION
1	CL	Dark brown silty clay with some gravel (CL)(medium stiff, moist)
2	GC	Brown clayey gravelly sand (GC)(medium dense, moist)
3	GM/SP	Brown gravelly sand (GM/SP)(medium dense, moist)
4		(grading clayey sand)
5		(silty sand layer)
6		(grading grayish brown, no clay, dense)

DEPTH IN FEET	TEST DATA	DESCRIPTION
0	2" thick asphalt over 4" thick gravel base	
1	Reddish brown sandy clay with some gravel (CL)(stiff, moist)	
5	(grading very stiff)	

BORING 6
DATE DRILLED 3/18/86
ELEVATION (ft) 225

DEPTH IN FEET	TEST DATA	DESCRIPTION
0	18" thick asphalt-gravel base	
1	Reddish brown silty clay (CL)(very stiff, moist)	
5		

BORING 7
DATE DRILLED 3/18/86
ELEVATION (ft) 225

LOG OF BORINGS

Tejima and Associates, Inc.
GEOTECHNICAL ENGINEERS AND GEOLGISTS

REVISIONS BY _____ DATE _____

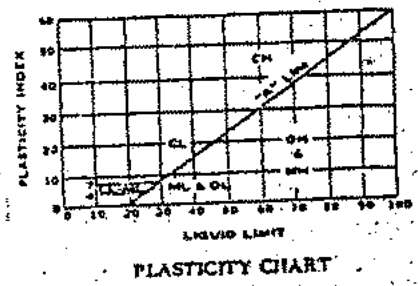
FILE _____

CHECKED BY _____ DATE _____

MAJOR DIVISIONS	SYMBOLS	TYPICAL NAMES	
COARSE GRAINED SOILS (More than 5% of coarse fraction > no. 200 sieve size)	GRAVELS	GW	Well graded gravels or gravel-sand mixtures, little or no fines
		GP	Fairly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
	SANDS	GC	Clayey gravels, gravel-sand-silt mixtures
		SW	Well graded sands or gravelly sands, little or no fines
		SP	Fairly graded sands or gravelly sands, little or no fines
FINE GRAINED SOILS (More than 5% of soil < no. 200 sieve size)	SILT & CLAYS <u>LI. < 50</u>	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-silt mixtures
		ML	Inorganic silts and very fine sands, rock flour, silt or clayey fine sands or clayey silts with slight plasticity
	SILTS & CLAYS <u>LI. > 50</u>	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
		OH	OH
OH	Organic clays of medium to high plasticity, organic silty clays, organic silts		
HEAVILY ORGANIC SOILS	Pt	Peat and other highly organic soils	

CLASSIFICATION CHART
(Unified Soil Classification System)

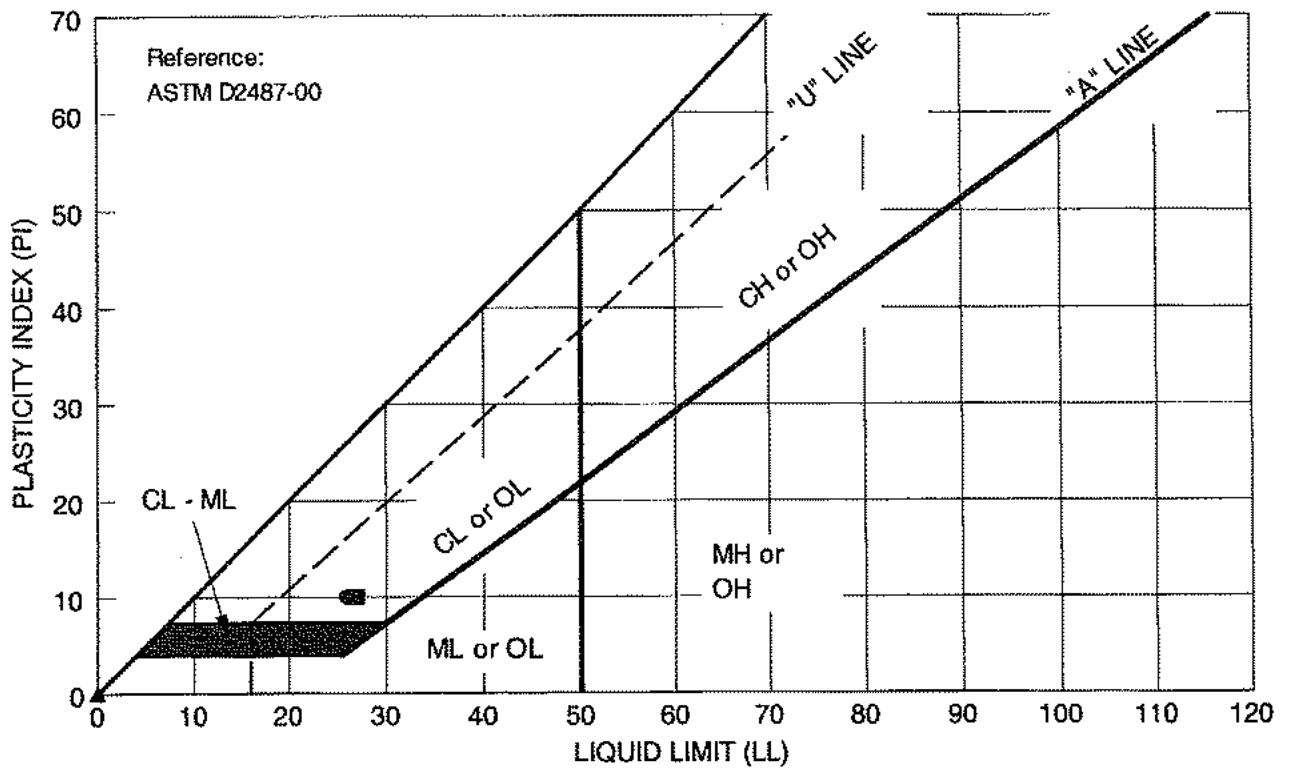
CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL (above fine)	3" to No. 4	76.2 to 4.75
	3" to No. 4 No. 10 to No. 40	76.2 to 4.75 4.75 to 0.075
SAND coarse medium fine	No. 4 to No. 200	4.75 to 0.075
	No. 4 to No. 10	4.75 to 2.00
	No. 10 to No. 40 No. 60 to No. 200	2.00 to 0.075 0.075 to 0.075
SILT & CLAY	Below No. 200	Below 0.075



GRAIN SIZE CHART
METHOD OF SOIL CLASSIFICATION

Tejima and Associates, Inc.
GEOTECHNICAL ENGINEERS and GEOLOGISTS

APPENDIX C
Laboratory Test Results



Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-5 at 2.5 feet	SANDY CLAY (CL), red-brown		26	10	57.0
■	B-5 at 5 feet	SANDY CLAY (CL), red-brown		27	10	

CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

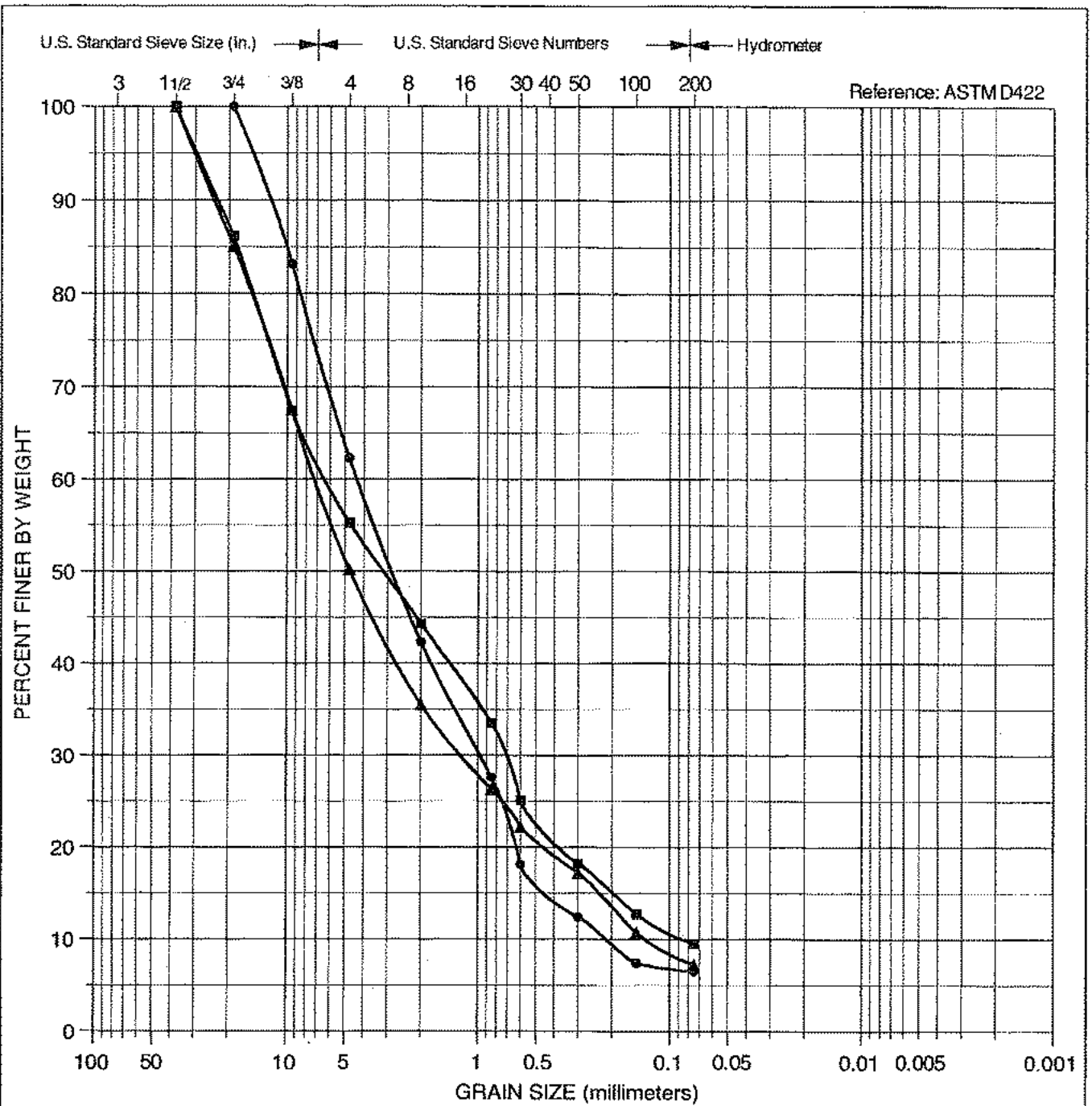
PLASTICITY CHART

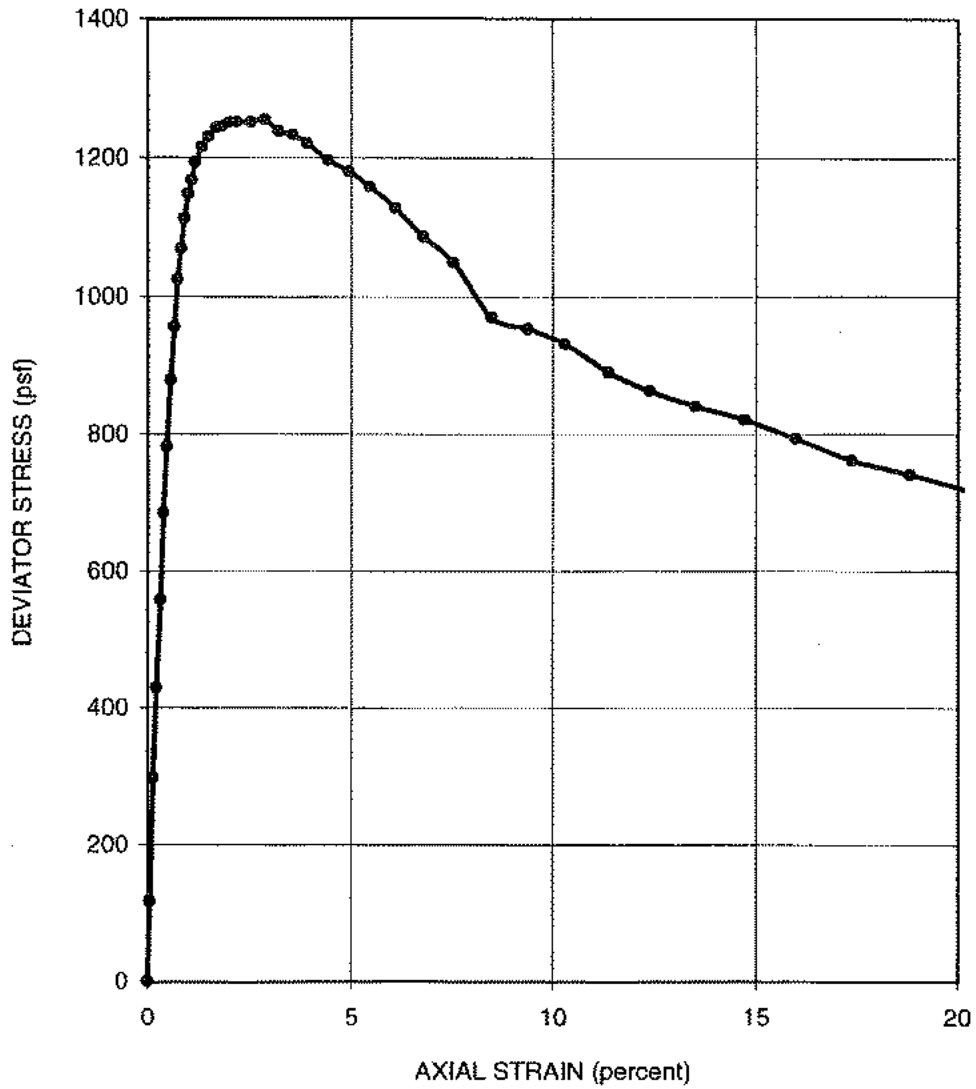
Treadwell & Rollo

Date 11/4/02

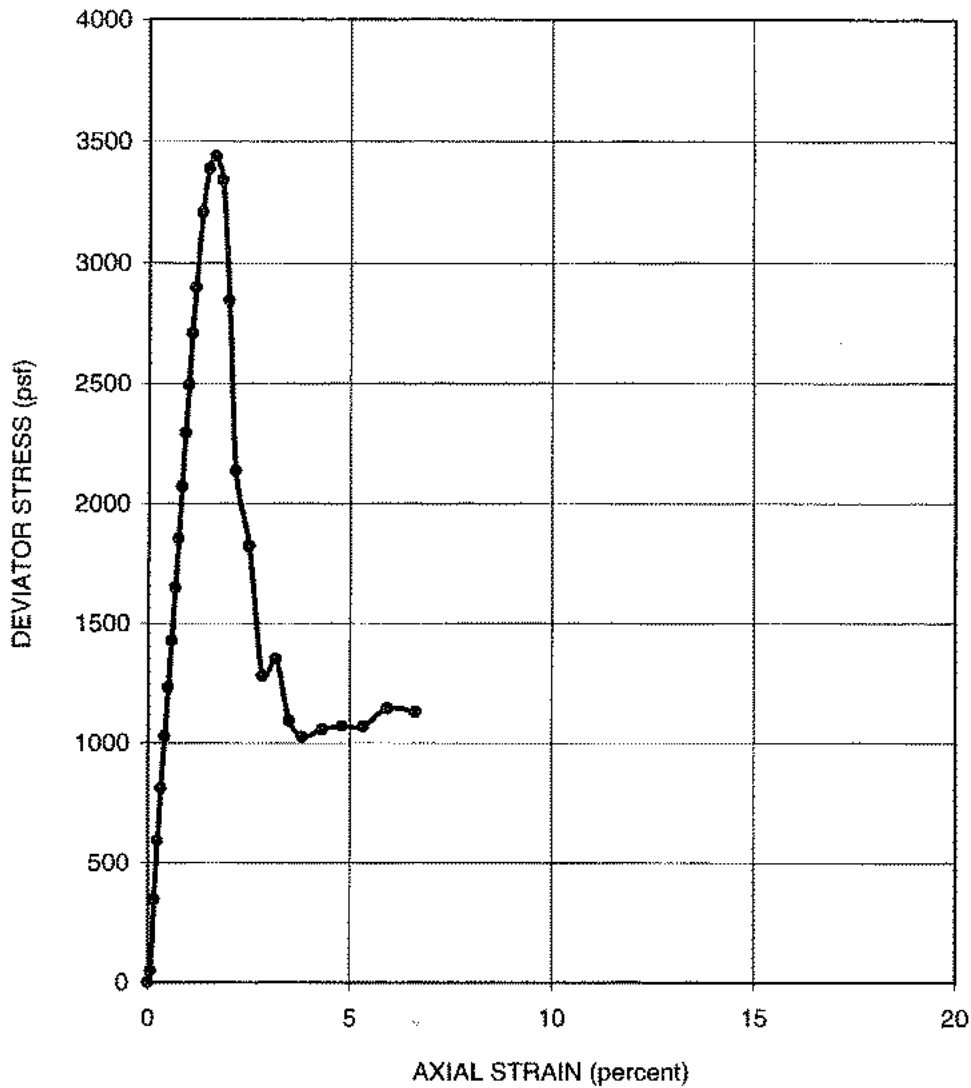
Project No. 3169.01

Figure C-1

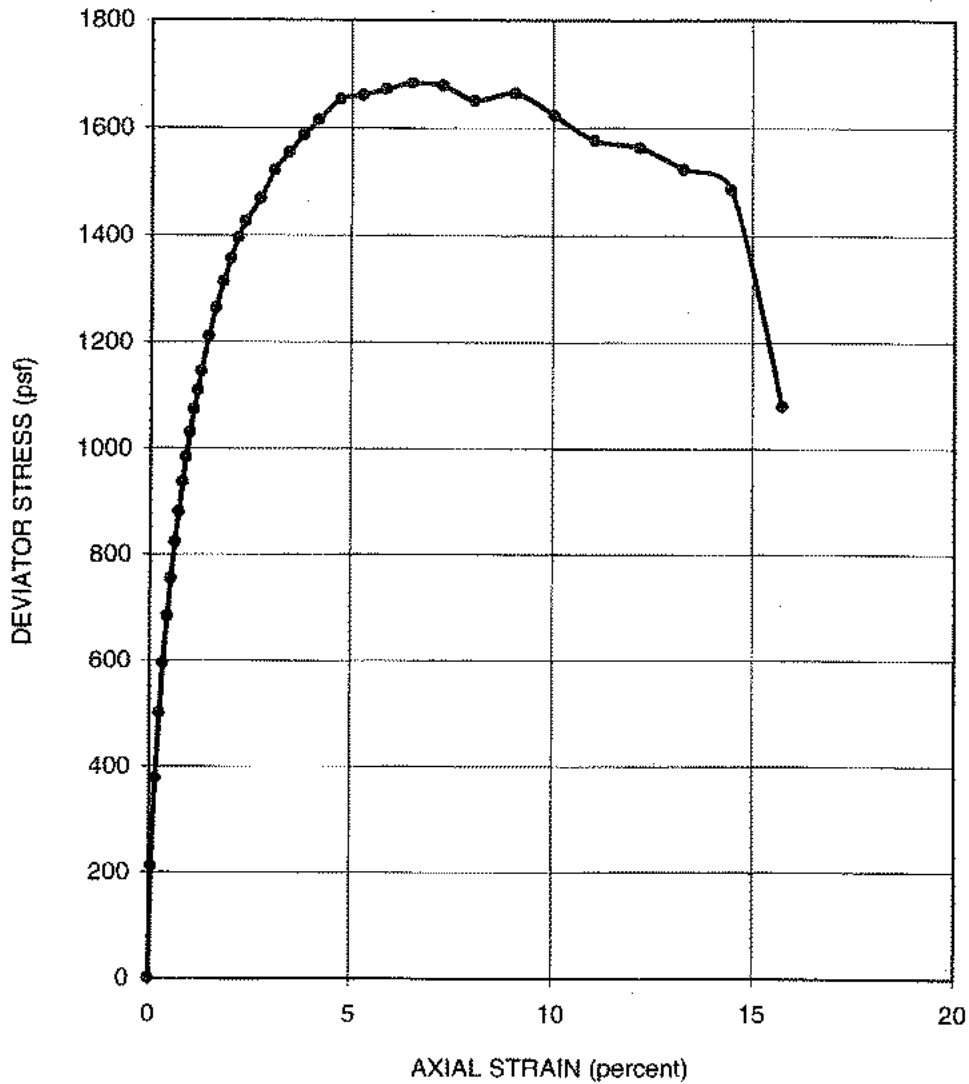




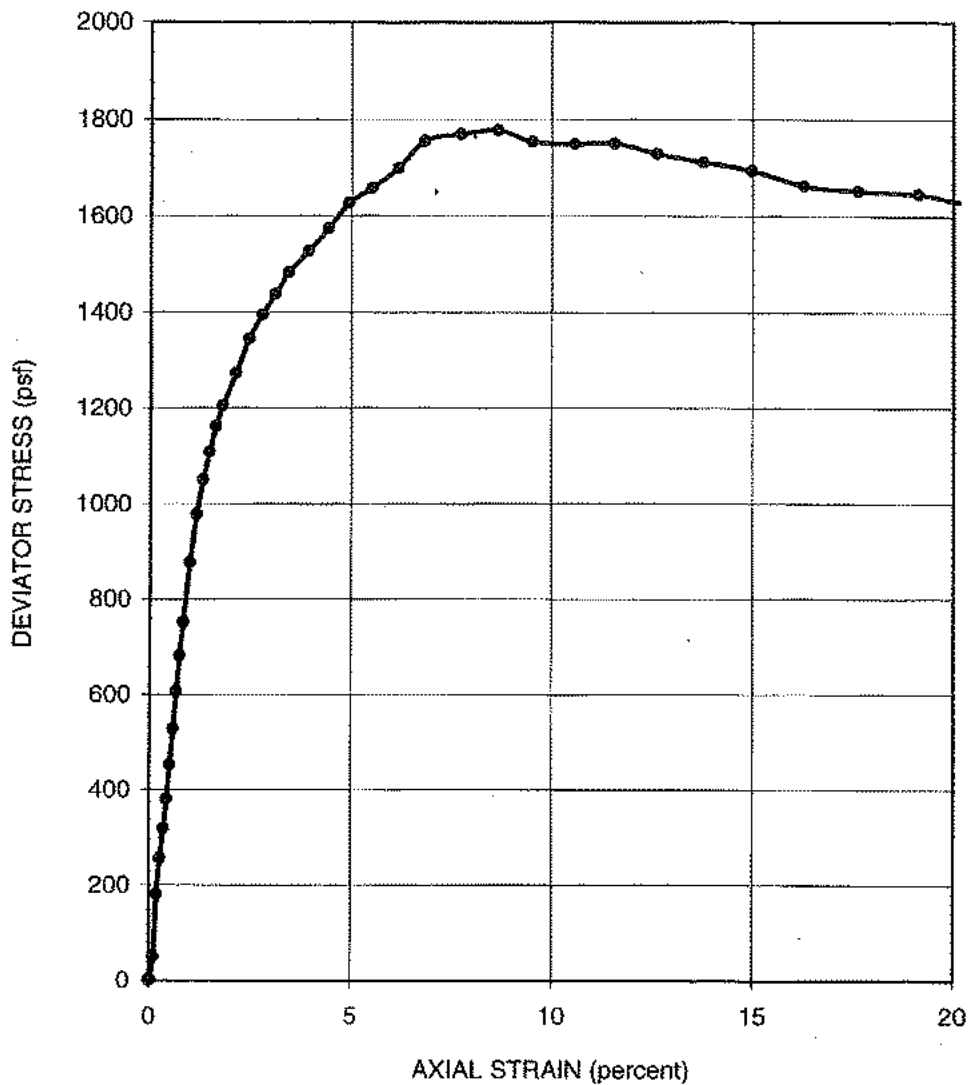
SAMPLER TYPE Sprague & Henwood (S&H)		SHEAR STRENGTH 625 psf	
DIAMETER (in.) 2.4	HEIGHT (in.) 5.4	STRAIN AT FAILURE 2.9 %	
MOISTURE CONTENT 8.5 %		CONFINING PRESSURE 600 psf	
DRY DENSITY 110 pcf		STRAIN RATE 0.75 % / min	
DESCRIPTION SILTY SAND with GRAVEL (SM), brown		SOURCE B-1 at 6 Feet	
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rollo		Date 01/10/02	Project No. 3169.01
		Figure C-3	



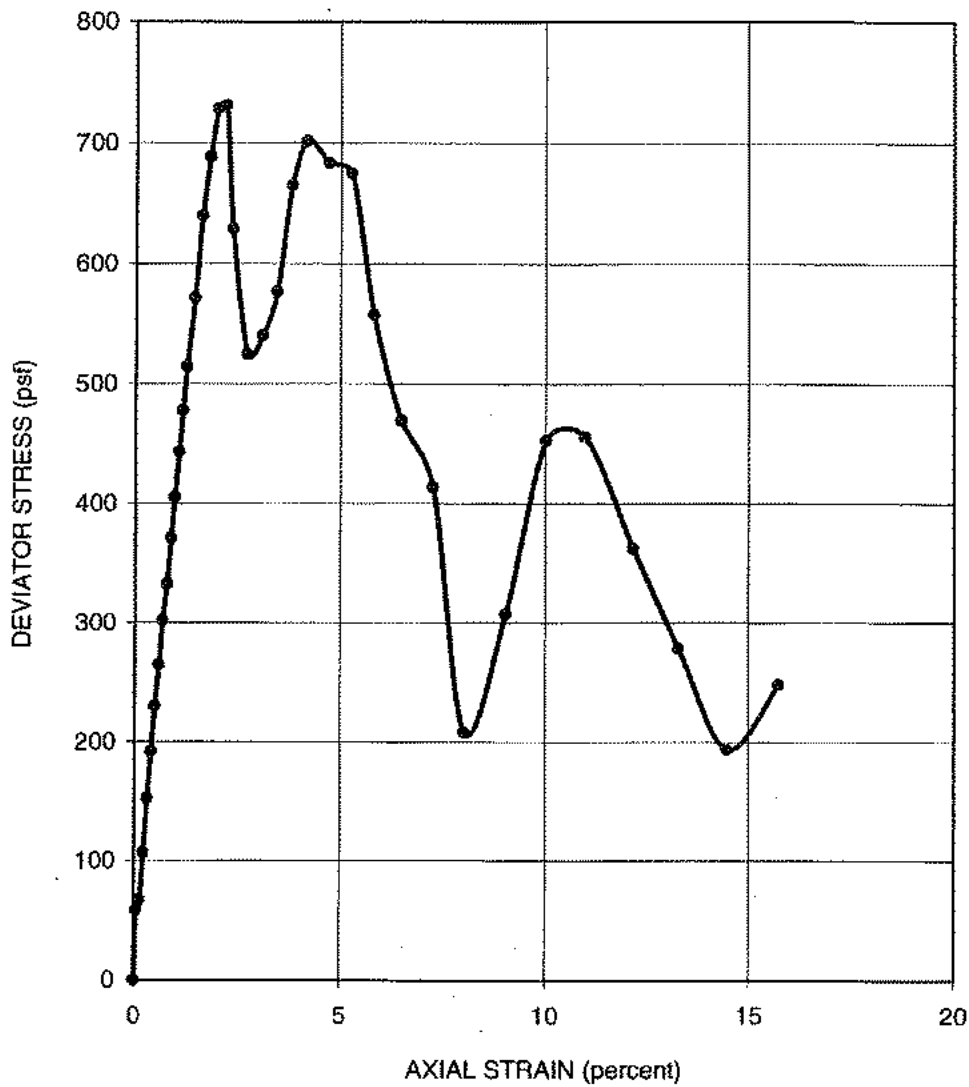
SAMPLER TYPE	Sprague & Herwood (S&H)		SHEAR STRENGTH	1720	psf
DIAMETER (in.)	2.4	HEIGHT (in.)	5.5	STRAIN AT FAILURE	1.6 %
MOISTURE CONTENT	18.0 %		CONFINING PRESSURE	1100	psf
DRY DENSITY	99 pcf		STRAIN RATE	0.73	% / min
DESCRIPTION	SANDY CLAY (CL), red-brown			SOURCE B-5 at 11 Feet	
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California			UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST		
Treadwell & Rollo			Date	01/10/02	Project No. 3169.01
			Figure	C-4	



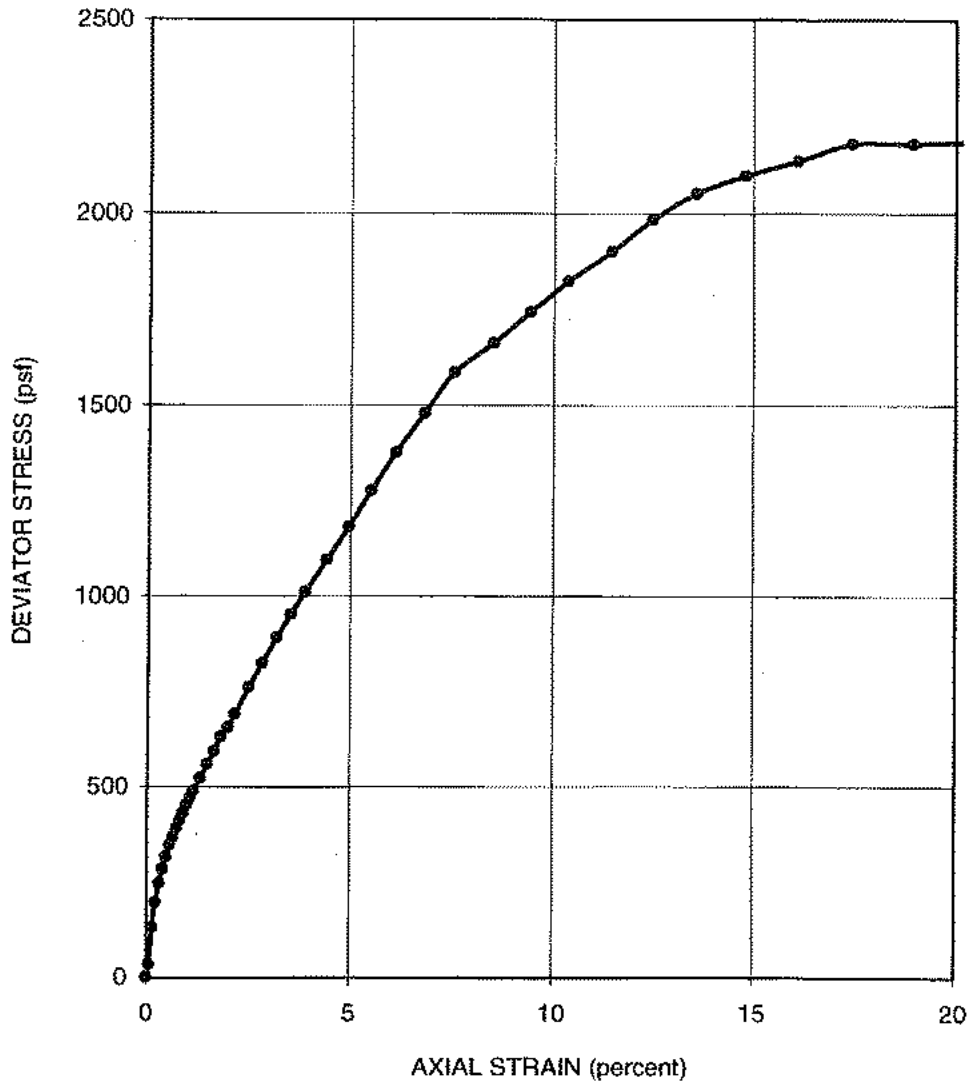
SAMPLER TYPE Sprague & Henwood (S&H)		SHEAR STRENGTH 840 psf	
DIAMETER (in.) 2.4	HEIGHT (in.) 5.0	STRAIN AT FAILURE 6.5 %	
MOISTURE CONTENT 9.6 %		CONFINING PRESSURE 600 psf	
DRY DENSITY 118 pcf		STRAIN RATE 0.80 % / min	
DESCRIPTION CLAYEY SAND with GRAVEL (SC), brown		SOURCE B-10 at 6 Feet	
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rollo		Date 01/10/02	Project No. 3169.01 Figure C-5



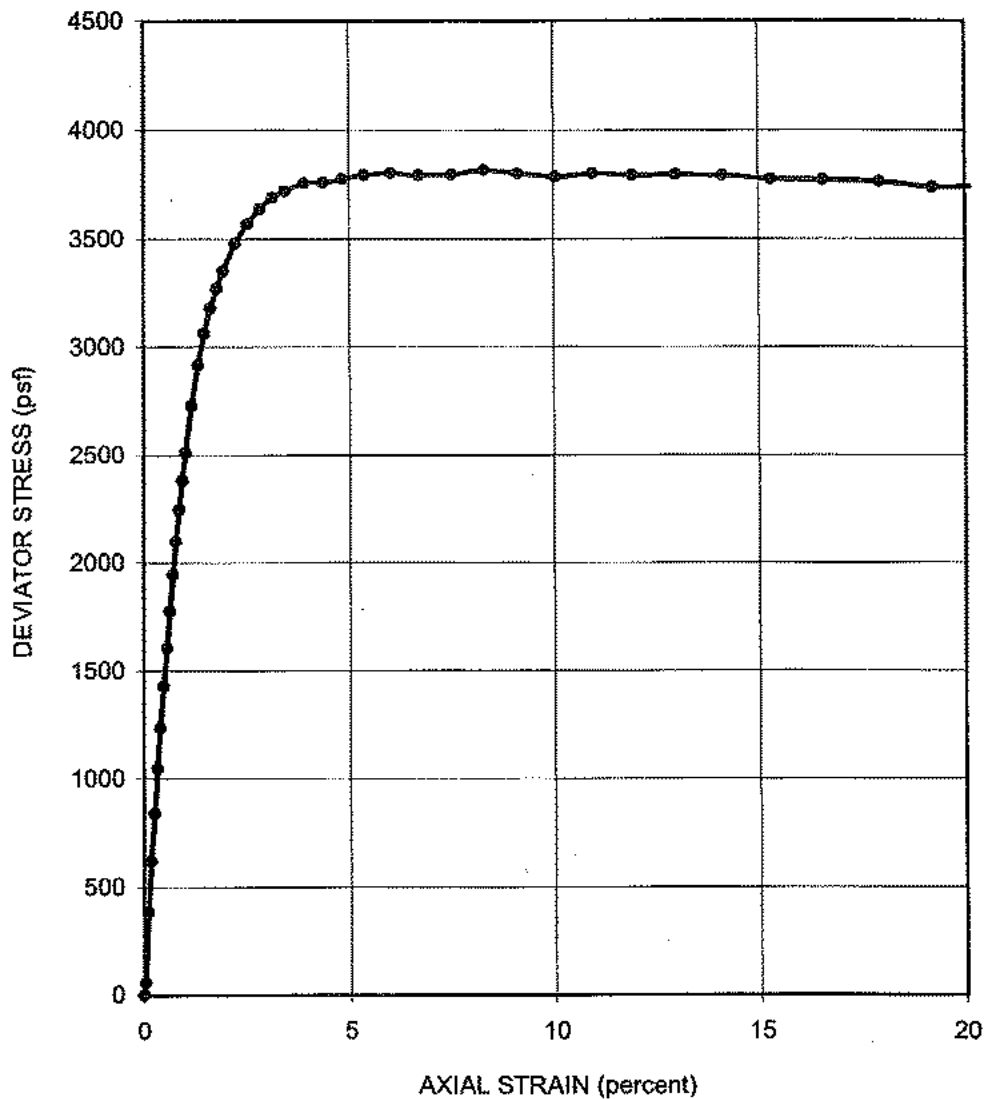
SAMPLER TYPE Sprague & Henwood (S&H)		SHEAR STRENGTH 890 psf	
DIAMETER (in.) 2.4	HEIGHT (in.) 5.6	STRAIN AT FAILURE 8.6 %	
MOISTURE CONTENT 13.2 %		CONFINING PRESSURE 300 psf	
DRY DENSITY 120 pcf		STRAIN RATE 0.71 % / min	
DESCRIPTION CLAYEY SAND with GRAVEL (SC) , brown		SOURCE B-11 at 3 Feet	
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rollo		Date 01/10/02	Project No. 3169.01 Figure C-6



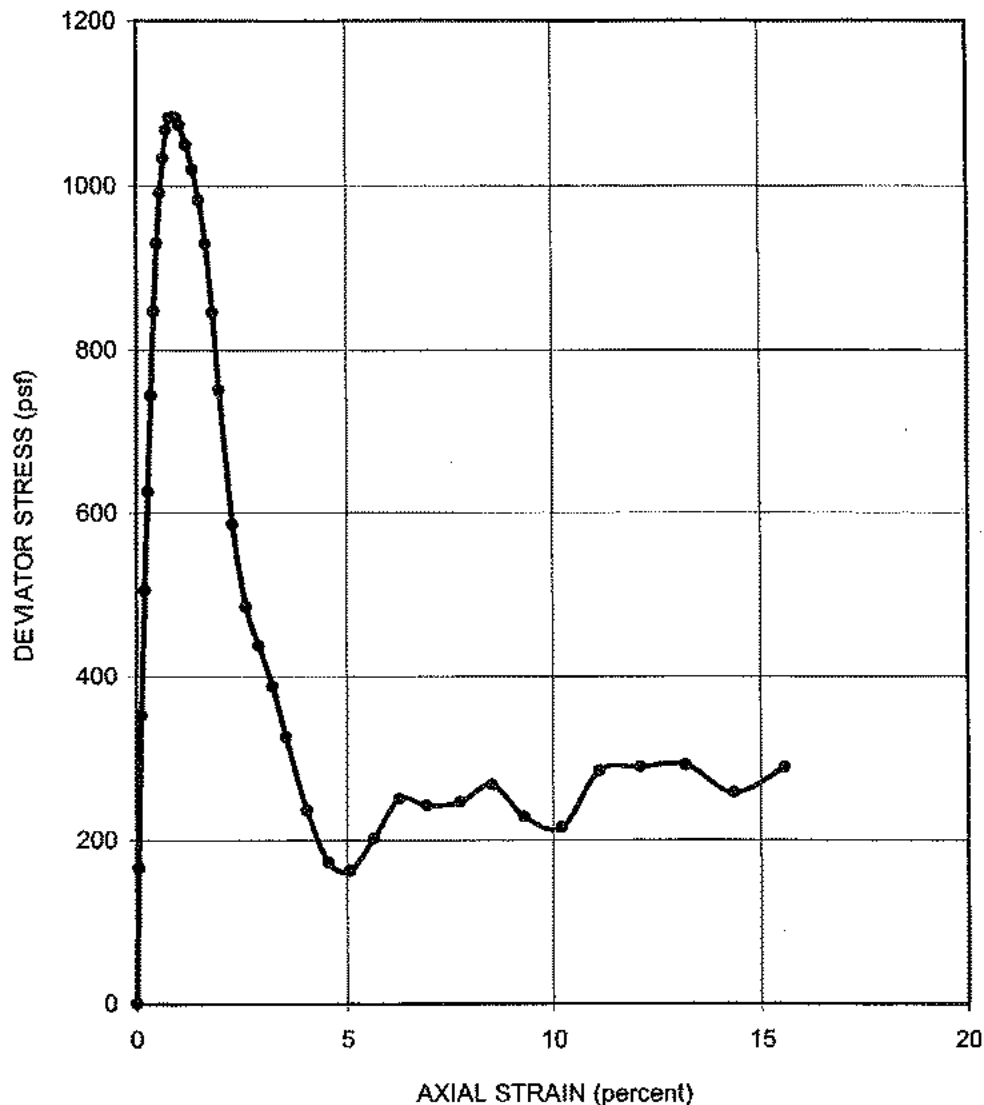
SAMPLER TYPE Sprague & Henwood (S&H)		SHEAR STRENGTH 365 psf	
DIAMETER (in.) 2.4	HEIGHT (in.) 5.0	STRAIN AT FAILURE 2.2 %	
MOISTURE CONTENT 12.6 %		CONFINING PRESSURE 550 psf	
DRY DENSITY 115 pcf		STRAIN RATE 0.80 % / min	
DESCRIPTION CLAYEY SAND with GRAVEL (SC) , brown		SOURCE B-11 at 5.5 Feet	
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rolfe		Date 01/10/02	Project No. 3169.01 Figure C-7



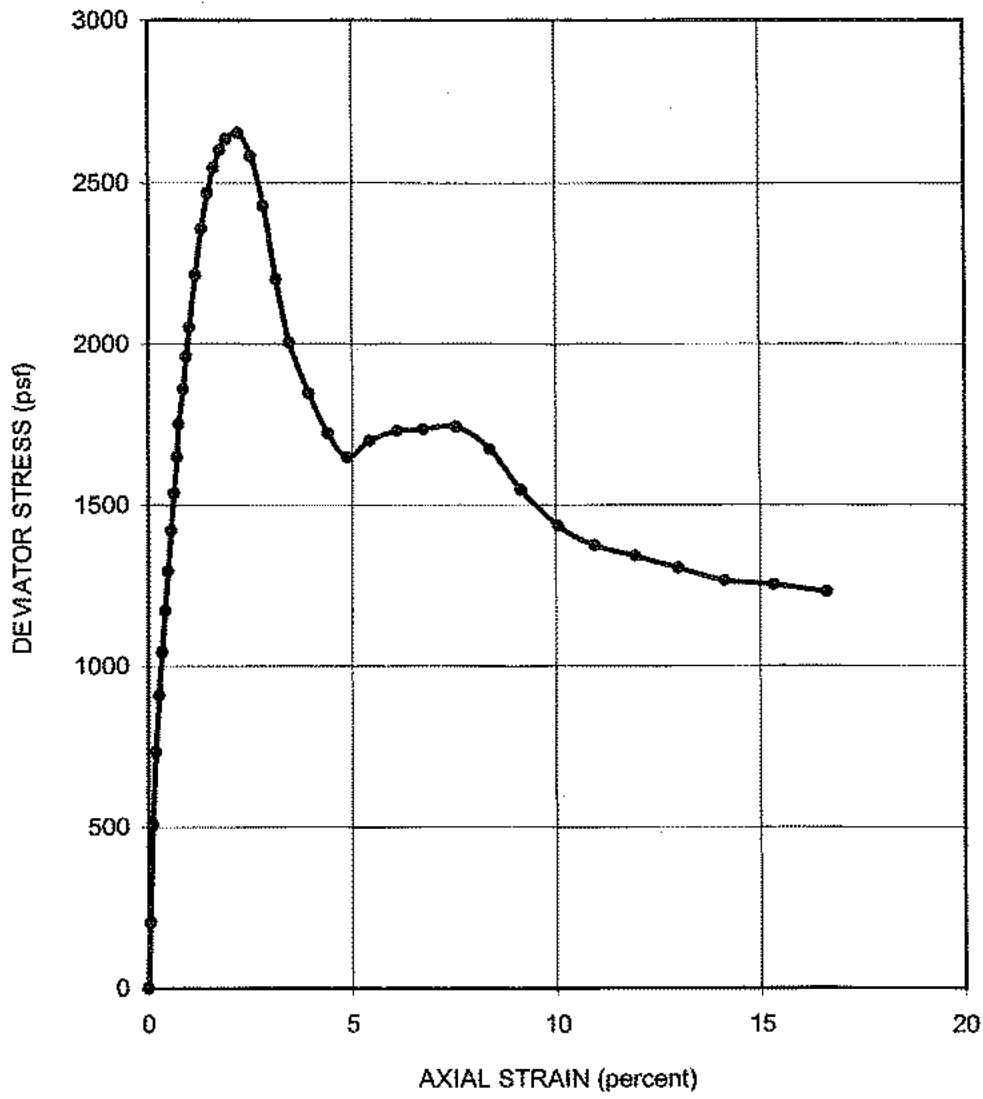
SAMPLER TYPE Sprague & Henwood (S&H)		SHEAR STRENGTH 1090 psf	
DIAMETER (in.) 2.4	HEIGHT (in.) 5.3	STRAIN AT FAILURE 20.5 %	
MOISTURE CONTENT 20.5 %		CONFINING PRESSURE 600 psf	
DRY DENSITY 105 pcf		STRAIN RATE 0.75 % / min	
DESCRIPTION SANDY CLAY (CL) , brown		SOURCE B-11 at 6 Feet	
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rollo		Date 01/10/02	Project No. 3169.01 Figure C-8



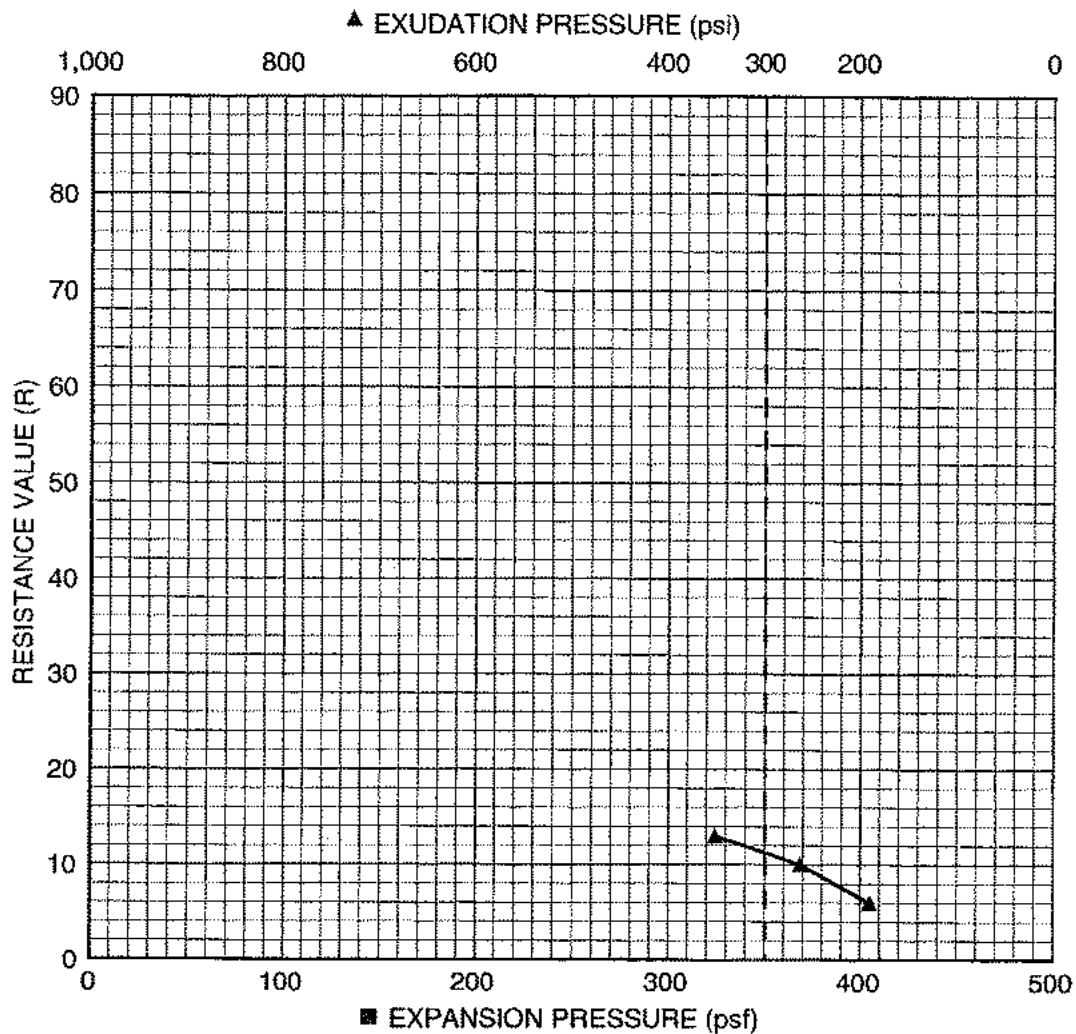
SAMPLER TYPE Sprague & Henwood		SHEAR STRENGTH 1,910 psf	
DIAMETER (in.) 2.420	HEIGHT (in.) 6	STRAIN AT FAILURE 8.3 %	
MOISTURE CONTENT 15.0 %		CONFINING PRESSURE 1,000 psf	
DRY DENSITY 107 pcf		STRAIN RATE 0.67 % / min	
DESCRIPTION SILTY SAND (SM), brown			SOURCE B-13 @ 5 feet
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rollo		Date 01/11/02	Project No. 3169.01 Figure C-9



SAMPLER TYPE	Sprague & Herwood		SHEAR STRENGTH	540	psf
DIAMETER (in.)	2.420	HEIGHT (in.)	5.9	STRAIN AT FAILURE	0.9 %
MOISTURE CONTENT	13.7	%	CONFINING PRESSURE	1,500	psf
DRY DENSITY	89	pcf	STRAIN RATE	0.68	% / min
DESCRIPTION	SILTY SAND (SM), brown			SOURCE	B-13 @ 15 feet
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California			UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST		
Treadwell & Rollo			Date	01/11/02	Project No. 3169.01 Figure C-10



SAMPLER TYPE Sprague & Henwood		SHEAR STRENGTH 1,330 psf	
DIAMETER (in.) 2.420	HEIGHT (in.) 6	STRAIN AT FAILURE 2.2 %	
MOISTURE CONTENT 12.7 %		CONFINING PRESSURE 1,000 psf	
DRY DENSITY 114 pcf		STRAIN RATE 0.67 % / min	
DESCRIPTION SILTY SAND (SM), brown			SOURCE B-14 @ 5 feet
CUPERTINO LIBRARY REPLACEMENT PROJECT Cupertino, California		UNCONSOLIDATED-UNDRAINED TRIAxIAL COMPRESSION TEST	
Treadwell & Rollo		Date 01/11/02	Project No. 3169.01
		Figure C-11	



Specimen ID:	A	B	C	D
Water Content (%)	12.1	12.6	13.0	
Dry Density (pcf)	120	120	119	
Exudation Pressure (psi)	351	263	190	
Expansion Pressure (psf)	0	0	0	
Resistance Value (R)	13	10	6	

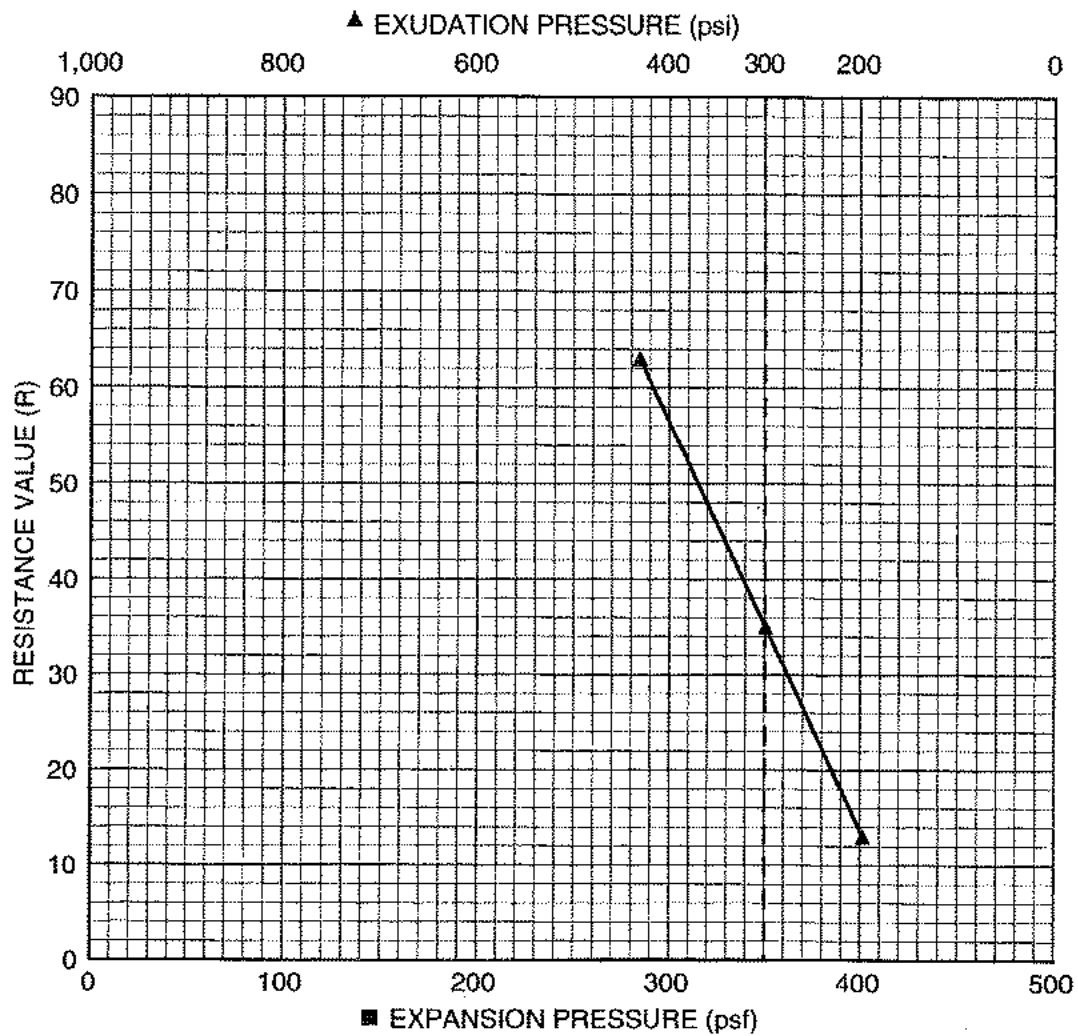
Sample Source	Sample Description	Sand Equivalent	Expansion Pressure	R value
R-1	SANDY SILT w/GRAVEL (ML), brown		0	12

CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

RESISTANCE VALUE TEST DATA

Treadwell & Rollo

Date 01/10/02 Project No. 3169.01 Figure C-12



Specimen ID:	A	B	C	D
Water Content (%)	11.2	10.3	9.3	
Dry Density (pcf)	127	128	129	
Exudation Pressure (psi)	197	299	431	
Expansion Pressure (psf)	0	0	0	
Resistance Value (R)	13	35	63	

Sample Source	Sample Description	Sand Equivalent	Expansion Pressure	R value
R-2	SANDY CLAYEY SILT with GRAVEL (ML), brown		0	35

CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

RESISTANCE VALUE TEST DATA

Treadwell & Rolo

Date 01/10/02 | Project No. 3169.01 | Figure C-13

**APPENDIX D
Corrosivity Evaluation**

31 July, 2001

C E R C O
a n a l y t i c a l , i n c .

Job No.0107077
Cust. No.10727

3942-A Valley Avenue
Pleasanton, CA 94566-4715
Tel: 925.462.2771
Fax: 925.462.2775

Ms. Aimee Oillarburu
Treadwell & Rollo
555 Montgomery Street, Suite 1300
San Francisco, CA 94111

Subject: Project No.: 3169.01-1000
Project Name: Cupertino Library
Corrosivity Analysis – ASTM Test Methods

Dear Ms. Oillarburu:

Pursuant to your request, CERCO Analytical has analyzed the soil sample submitted on July 11, 2001. Based on the analytical results, a brief evaluation is enclosed for your consideration.

Based upon the resistivity measurement, this sample is classified as "moderately corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentration reflects none detected with a detection limit of 15 mg/kg.

The sulfate ion concentration is 88 mg/kg and is determined to be insufficient to damage reinforced concrete structures and cement mortar-coated steel at this location.

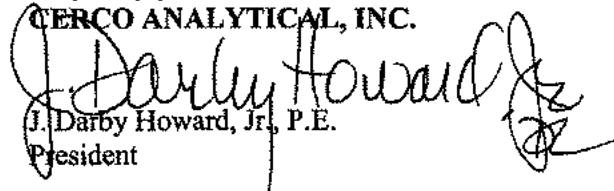
The pH of the soils is 8.1 which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potential is 250-mV, which is indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc. at (925) 927-6630.*

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.

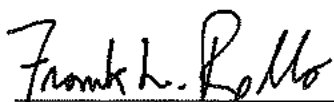

J. Darby Howard, Jr., P.E.
President

JDH/jdl
Enclosure

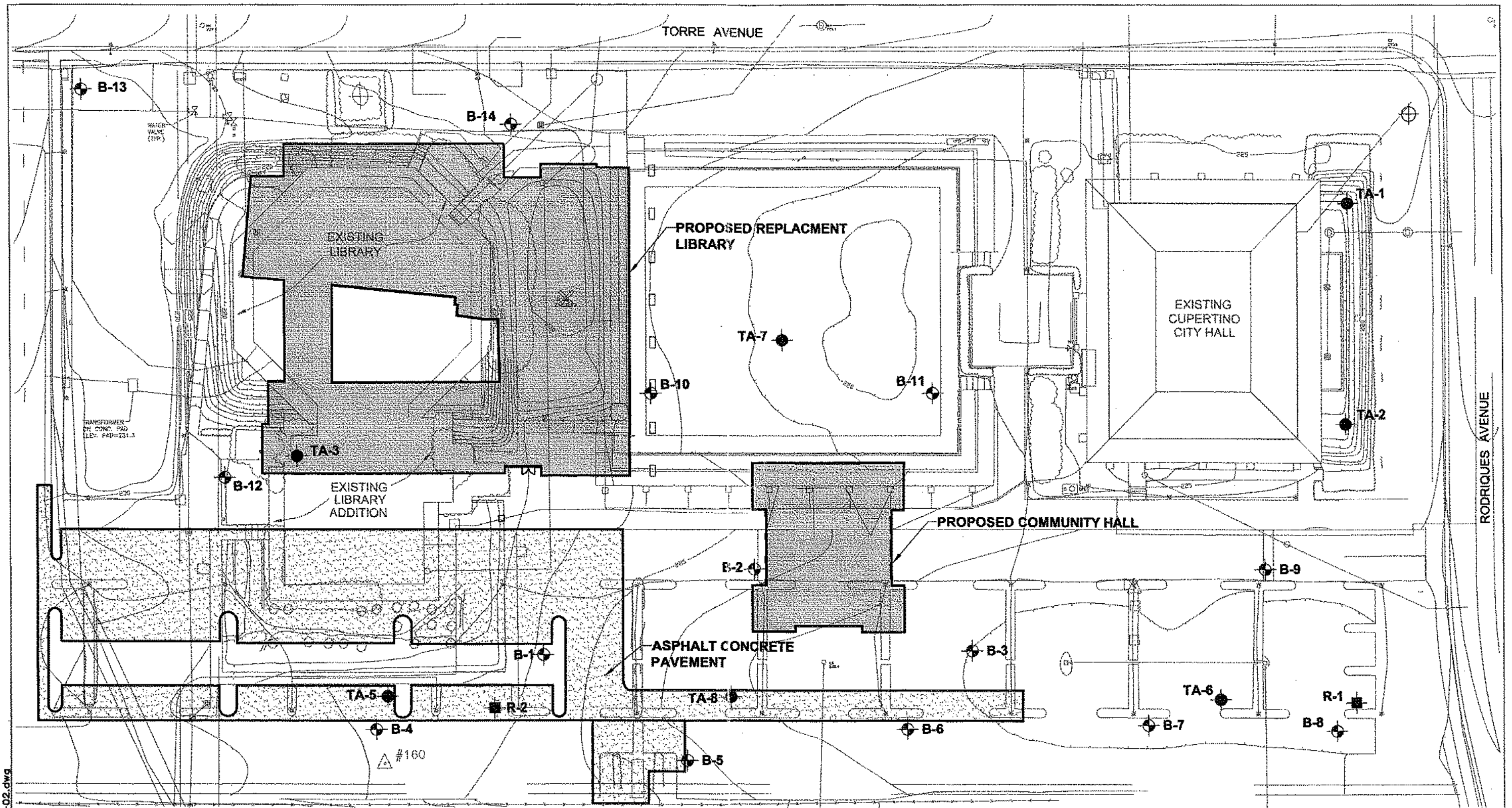
DISTRIBUTION

- 4 copies: Mr. Terry W. Greene, AIA
City of Cupertino
10300 Torre Avenue
Cupertino, CA 95014
- 2 copies: Mr. Doug Hoffelt
SMWM
989 Market Street, 3rd Floor
San Francisco, CA 94103
- 1 copy: Mr. Allen Nudel
Forrell/Elsessor Engineers, Inc.
160 Pine Street
San Francisco, CA 94111
- 1 copy: Mr. Ron Johnson
Sandis Humber Jones
1600 Sacramento Inn Way, Suite 122
Sacramento, CA 95815




QUALITY CONTROL REVIEWER:





Frank L. Rollo
Geotechnical Engineer

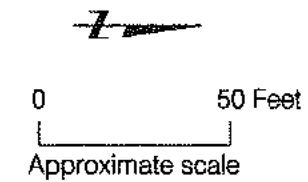


EXPLANATION

- B-1**  Approximate location of boring by Treadwell & Rollo, Inc., June, July and November 2001
- R-1**  Approximate location of bulk sample taken by Treadwell & Rollo, Inc., July 2001
- TA-1**  Approximate location of boring by Tejima and Associates, Inc., March 1986

Reference: Grading Plan, Cupertino Civic Center, prepared by Sandis Humber Jones, dated 12 September 2002

-  Proposed building footprints
-  Proposed asphalt concrete pavement areas



CUPERTINO LIBRARY REPLACEMENT PROJECT
Cupertino, California

SITE PLAN

Date 11/4/02 Project No. 3169.01 Figure 2

Treadwell & Rollo

3169.01/3169.01_grading_11-02.dwg

APPENDIX 6

PRICE PROPOSAL FORM

Directions: Complete and execute this Price Proposal Form as indicated and attach as Part B to the Proposal. The proposed Contract Price for the Services (as those terms are defined in Article 1 of the General Conditions of the Design-Build Contract Documents), must be fully inclusive of all costs, direct and indirect, including, but not limited to, labor, materials, equipment, overhead, permits, licenses, insurance, bonds, taxes, profit, etc.

A. Price Proposal A. Provide the proposed Contract Price to design and build the Project with no reduction in the minimum requirements, including performance criteria, set forth in the RFP and Bridging Documents.

ITEM	DESCRIPTION	PROPOSED PRICE
1	Design Services (as defined in General Conditions)	\$
2	Construction Services (as defined in General Conditions)	\$
3	Total Contract Price for Price Proposal A	\$

Total Contract Price for Price Proposal A (in words):

_____.

Weekly rate for Construction Phase "General Conditions" costs:* \$ _____

* Attach separate sheet showing breakdown of "general conditions" costs, but do not include home office overhead.

B. Price Proposal B. If Price Proposal A exceeds the City's cost estimate of \$6,500,000, the Proposer may submit Price Proposal B. If Price Proposal A is within the City's cost estimate of \$6,500,000, submission of Price Proposal B is optional. If Proposer includes Price Proposal B, by completing the form below, attach a separate document, titled "Price Proposal B Explanation," that clearly and with specificity identifies all modifications to the Bridging Documents to design and build the Project within the City's cost estimate of \$6,500,000.

ITEM	DESCRIPTION	PROPOSED PRICE
1	Design Services (as defined in General Conditions)	\$
2	Construction Services (as defined in General Conditions)	\$
3	Total Contract Price for Price Proposal B	\$

Total Contract Price for Price Proposal B (in words):

_____.

Weekly rate for Construction Phase "General Conditions" costs:* \$ _____

* Attach separate sheet showing breakdown of "general conditions" costs, but do not include home office overhead.

C. City Determination. The City reserves the right, acting in its sole discretion, to award the Design-Build Contract, if at all, based on the Proposal that offers the best value to the City, which may include award based on Price Proposal A or Price Proposal B.

D. Proposer Commitment. If selected by the City, the Proposer agrees to provide the Design Services and Construction Services for the Project for the total Contract Price set forth for Price Proposal A or Price Proposal B (if provided), as set forth above, as witnessed by the signature(s) below. Each individual signing below warrants that he or

she is authorized to do so by the party that he or she represents. (Include a notarized affidavit attesting to the authenticity of each signature. If DBE is a partnership or joint venture, all general partners or members must sign the Price Proposal form.)

[Signature page follows.]

PROPOSER/DESIGN-BUILD ENTITY

(Legal Name of Proposer/DBE)

Signature: _____

Date: _____

Name & Title: _____

Signature: _____

Date: _____

Name & Title: _____

APPENDIX 7

STIPEND AGREEMENT

This Stipend Agreement (“Agreement”) is made and entered into as of this ____ day of _____, 20__, by and between the City of Cupertino (the “City”), and _____ (“Proposer”).

WITNESSETH:

WHEREAS, the City issued a Request for Qualifications (“RFQ”) for design-build delivery of the Cupertino Library Expansion Project (“Project”) on May 12, 2020 and Proposer was short-listed by the City following the RFQ process;

WHEREAS, Proposer has been invited to submit a detailed Proposal in response to a Request for Proposals (“RFP”) for the Project, and if selected as the Proposer providing the Proposal that offers the “best value” to the City following the RFP process, it will enter into the Design-Build Contract with the City; and

WHEREAS, as part of the procurement process for the Project, Proposer has already provided and/or furnished to the City, and may continue to provide and/or furnish to the City, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed orally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Proposer’s Proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively, “Proposer’s Intellectual Property”); and

WHEREAS, the City is willing to provide a payment to Proposer, subject to the express conditions stated in this Agreement, to obtain certain rights in Proposer’s Intellectual Property; and

WHEREAS, Proposer wishes to receive the payment offered by the City, in exchange for granting the City the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

1. **City's Rights in Proposer's Intellectual Property.** Proposer hereby conveys to the City all rights, title and interest, free and clear of all liens, claims and encumbrances, in Proposer's Intellectual Property, which includes, without restriction or limitation, the right of the City, and anyone contracting with the City, to incorporate any ideas or information from Proposer's Intellectual Property into: (a) the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by the City. In receiving all rights, title and interest in Proposer's Intellectual Property, the City is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Proposer's Intellectual Property, and Proposer agrees that it will, at the request of the City, execute all papers and perform all other acts that may be necessary to ensure that the City's rights, title and interest in Proposer's Intellectual Property are protected. The rights conferred herein to the City include, without limitation, the City's ability to use Proposer's Intellectual Property without the obligation to notify or seek permission from Proposer.
2. **Exclusions from Proposer's Intellectual Property.** Notwithstanding Section 1 above, it is understood and agreed that Proposer's Intellectual Property is not intended to include, and Proposer does not convey any rights to, any escrow documents submitted by Proposer.
3. **Stipend Payment.** City agrees to pay Proposer, and Proposer agrees to accept, \$10,000 (the "Stipend Payment"), which payment (i) constitutes payment in full to Proposer for the conveyance of Proposer's Intellectual Property to the City in accordance with this Agreement and (ii) is conditioned upon: (A) Proposer's Proposal being, in the sole discretion of the City, responsive to the RFP; (B) Proposer complying with all other terms and conditions of this Agreement; and (C) Proposer having not been awarded the Design-Build Contract.
4. **Payment Due Date.** Subject to the conditions set forth in this Agreement, the City will make payment of the Stipend Payment to the Proposer within 45 days after the latest of: (a) notice from the City that it has awarded the Design-Build Contract to another Proposer; or (b) notice from the City that the procurement for the Project has been cancelled and that the City will not award the Design-Build Contract to any Proposer.
5. **Limitations.** Proposer's rights to the Stipend Payment are also conditioned on the terms set forth in the RFP, including subsection 3.G (Stipend) and good faith

participation in the RFP process, demonstrated by submission of a Proposal that reflects a level of effort commensurate with the competitive selection process as set forth in the RFP and full participation in the selection process, including meeting(s) with the Evaluation Panel. The rights and obligations of the City and Proposer under this Agreement, including the City's ownership rights in Proposer's Intellectual Property, vest upon the date that Proposer's Proposal is submitted to the City. Notwithstanding the above and unless the City cancels this procurement prior to the Proposal Submittal Deadline, if Proposer's Proposal is determined by the City, in its sole discretion, to be nonresponsive to the RFP, then Proposer is deemed to have waived its right to obtain the Stipend Payment, and the City will have no obligations under this Agreement.

6. **Indemnity.** Subject to the limitation contained below, Proposer will, at its own expense, indemnify, protect and hold harmless the City and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity ("Claims") of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or willful misconduct of Proposer or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Proposer's obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity will not apply with respect to any Claims caused by or resulting from the sole gross negligence or willful misconduct of the City, or its agents, directors, officers, employees, representatives or contractors.
7. **Assignment.** Proposer will not assign this Agreement without the City's prior written consent, which consent may be given or withheld in the City's sole discretion. Any assignment of this Agreement without such consent will be null and void.
8. **Authority to Enter into this Agreement.** By executing this Agreement, Proposer specifically represents and warrants that it has the authority to convey to the City all rights, title, and interest in Proposer's Intellectual Property, including, but not limited to, any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Proposer's Intellectual Property, free and clear of all liens, claims and encumbrances.

9. Miscellaneous.

- a. Proposer and the City agree that Proposer, its team members, and their respective employees are not agents of the City as a result of this Agreement.
- b. Any capitalized term used herein but not otherwise defined will have the meanings set forth in the RFP.
- c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement will supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.
- d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any applicable laws, validity of the remaining portions or provisions will not be affected, and the rights and obligations of the parties will be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

[Signature page follows]

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.

DESIGN-BUILD ENTITY

(Legal Name of DBE)

By _____
Name _____
Title _____
Date _____

By _____
Name _____
Title _____
Date _____

CITY OF CUPERTINO

A Municipal Corporation

By _____
Roger Lee
Director of Public Works
Date _____

APPROVED AS TO FORM:

By _____
Heather Minner
City Attorney
Date _____

ATTEST:

Kirsten Squarcia
City Clerk
Date _____

APPENDIX 8

NON-COLLUSION DECLARATION

TO BE EXECUTED BY PROPOSER AND SUBMITTED WITH PROPOSAL

The undersigned declares:

I am the _____ [title] of
_____ [business name], the party making the
foregoing Proposal.

The Proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The Proposal is genuine and not collusive or sham. Proposer has not directly or indirectly induced or solicited any other Proposer to put in a false or sham Proposal. The Proposer has not directly or indirectly colluded, conspired, connived, or agreed with any Proposer or anyone else to put in a sham Proposal, or to refrain from submitting a Proposal. The Proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the Price Proposal of the Proposer or any other Proposer, or to fix any overhead, profit, or cost element of the Price Proposal, or of that of any other Proposer. All statements contained in the Proposal are true. The Proposer has not, directly or indirectly, submitted his or her Price Proposal or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham Proposal, and has not paid and will not pay, any person or entity for such purpose.

This declaration is intended to comply with California Public Contract Code § 7106.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____
[date], at _____ [city], _____ [state].

s/ _____

Name [print]

END OF NON-COLLUSION DECLARATION