## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO, CALIFORNIA

PROJECT NO. 2019-15



## **LOCATION MAP**

## PROJECT SITE

**OWNER: CITY OF CUPERTINO** 

PROJECT ADDRESS: 1000 SOUTH STELLING ROAD, CUPERTINO, CA 95014

APN# 359-25-049

PROJECT BASIS OF BEARING: SEE C0.10

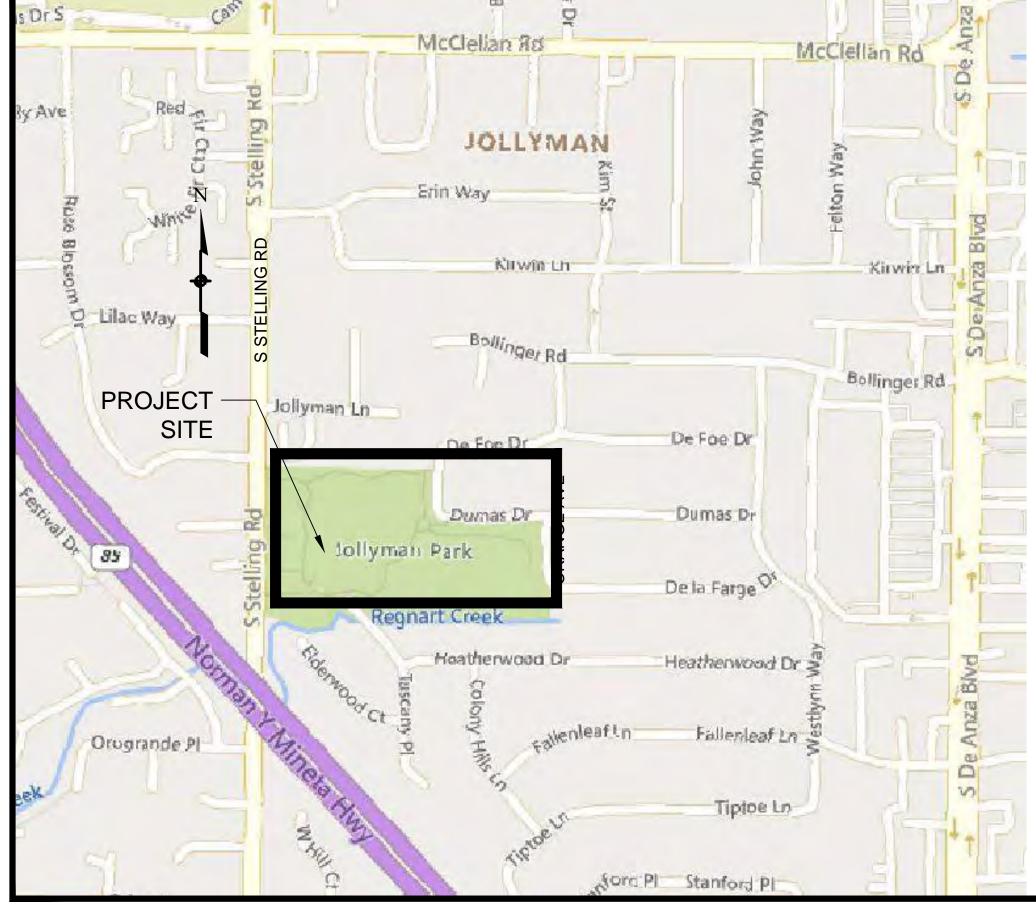
PROJECT BENCHMARK: SEE C0.10

## SCOPE OF WORK

THE PROJECT INVOLVES DEMOLITION OF THE EXISTING AGE 5-12 PLAY AREA AT JOLLYMAN PARK AND INSTALLATION OF A NEW ALL-INCLUSIVE PLAY AREA AND PREFABRICATED RESTROOM.

THE BASE BID SHALL INCLUDE ALL WORK AS HEREIN DESCRIBED AND AS SHOWN ON THE PLANS, DETAILS AND SPECIFICATIONS FOR THIS

FOR DEDUCT ALTERNATES SEE PROJECT MANUAL BID SCHEDULE.



## SITE MAP

## DEFERRED APPROVAL AND PERMITS

NO.	ITEM	SUBMITTAL PACKAGE MUST INCLUDE:
1	PREFABRICATED RESTROOM (SEE SHEET C7.10 AND SPEC SECTION 130000 FOR PRELIMINARY INFORMATION)	EQUIPMENT DATA, SHOP DRAWINGS, AND FOOTING DESIGN BY THE MANUFACTURER, REVIEWED AND STAMPED BY A CA STRUCTURAL ENGINEER AND WITH CALCULATIONS PROVIDED.
2	CUSTOM SHADE SAILS (SEE SHEET L3.07 AND SPEC SECTION 129300 FOR PRELIMINARY INFORMATION)	EQUIPMENT DATA, SHOP DRAWINGS, AND FOOTING DESIGN BY THE MANUFACTURER, REVIEWED AND STAMPED BY A CA STRUCTURAL ENGINEER AND WITH CALCULATIONS PROVIDED.
3	ALL PLAY EQUIPMENT (SEE MATERIALS SCHEDULE, PRELIMINARY L3 DETAILS, AND SPEC SECTION 116813)	EQUIPMENT DATA, SHOP DRAWINGS AND FOOTING DESIGN BY THE MANUFACTURER.

## SHEET INDEX

#### SHEET DWG TITLE

**COVER SHEET** G0.00

G0.10 PROJECT DIRECTORY & GENERAL NOTES

#### **CIVIL**

C0.00 CIVIL GENERAL NOTES

C2.10 EROSION CONTROL PLAN

C3.10 GRADING AND DRAINAGE PLAN - WEST

GRADING AND DRAINAGE PLAN - EAST

**UTILITY PLAN - WEST** 

C4.11 UTILITY PLAN - EAST

C5.10 STORMWATER MANAGEMENT PLAN

17. C6.00 CONSTRUCTION DETAILS

18. C6.01 CONSTRUCTION DETAILS

19. C7.10 RESTROOM PLANS

## LANDSCAPE

20. L1.00 MATERIALS SCHEDULE

MATERIALS & DETAIL REFERENCE PLAN - WEST MATERIALS & DETAIL REFERENCE PLAN - EAST

23. L2.10 LAYOUT PLAN - WEST

24. L2.11 LAYOUT PLAN - EAST

25. L3.00 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

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CONSTRUCTION DETAILS

**CONSTRUCTION DETAILS CONSTRUCTION DETAILS** 

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

36. L3.11 CONSTRUCTION DETAILS

SHEET DWG TITLE

IRRIGATION LEGEND

**IRRIGATION NOTES IRRIGATION DEMOLITION PLAN - WEST** 

**IRRIGATION DEMOLITION PLAN - EAST** 

**IRRIGATION PLAN - WEST** 

**IRRIGATION PLAN - EAST** 

**IRRIGATION DETAILS** 

**IRRIGATION DETAILS** 

IRRIGATION DETAILS

IRRIGATION DETAILS

IRRIGATION DETAILS

IRRIGATION MWELO CALCULATIONS

PLANTING SCHEDULE

PLANTING PLAN - WEST

PLANTING PLAN - EAST

PLANTING DETAILS

### **ELECTRICAL**

53. E0.00 GENERAL INFORMATION

54. E1.00 OVERALL SITE PLAN

55. E1.01 OVERALL SITE PLAN

56. E1.10 ENLARGED SITE PLAN - WEST

57. E1.11 ENLARGED SITE PLAN - EAST

58. E8.00 DETAILS

## **STRUCTURAL**

59. S0.01 GENERAL NOTES / SHEET INDEX

60. S0.02 GENERAL NOTES

### **GENERAL NOTE:**

THESE DRAWINGS HAVE BEEN SUBMITTED AS PART OF THE CUPERTINO PERMIT APPLICATION PROCESS. THE CLOUDS & DELTAS REFLECT RESPONSES TO THE PERMIT REVIEWERS' COMMENTS.





800 HEARST AVENUE

www.migcom.com

UNAUTHORIZED CHANGES & USES: 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 THESE PLANS.

> RESPONSE TO PERMIT COMMENTS/ BID SET 03-22-2024 **AS SHOWN** Designed: CH / MB Drawn: JE / ME Proj. Engr: DESIGN DESIGN CITY APPR. DATE  $\frac{30902}{}$ **REVISIONS**

IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND

AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** PUBLIC WORKS INSPECTOR: **COVER SHEET** VOICE MAIL:

MAX.

MAXIMUM

	A.T.	MED	MANUEACTURER
@	AT	MFR	MANUFACTURER
&	AND	MIN.	MINIMUM
AB	AGGREGATE BASE	(N)	NEW
AC	ASPHALTIC CONCRETE	(NB)	NORTHBOUND
AD	AREA DRAIN	NIC	NOT IN CONTRACT
AGG.	AGGREGATE	NTS	NOT TO SCALE
APPROX.	APPROXIMATELY	NO	NUMBER/#
ASPH	ASPHALT	OC	ON CENTER
AVG	AVERAGE	OD	OUTSIDE DIMENSION
BC	BOTTOM OF CURB	PA	PLANTING AREA
BFP	BACKFLOW PREVENTER	PCC	PORTLAND CEMENT CONCRETE
BW	BOTTOM OF WALL	PERF.	PERFORATED
BAR/REBAR	REINFORCING BAR	PL	PROPERTY LINE
BLDG	BUILDING	P.O.B.	POINT OF BEGINNING
СВ	CATCH BASIN	POC	POINT OF CURVATURE OR
CIP	CAST-IN-PLACE	. 00	POINT OF CONNECTION
CITY	CITY OF SAN JOSE	PREF.	PREFABRICATED
CL	CENTER LINE	PT	PRESSURE TREATED
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	PVC	POLYVINYL CHLORIDE
CONC.	CONCRETE	QSP.	
			QUALIFIED SWPPP PRACTITIONER
CONT.	CONTINUOUS	QTY.	QUANTITY
CP	CONCRETE PIPE	R/RAD	RADIUS
DG	DECOMPOSED GRANITE	REINF.	REINFORCING
DP	DEEP	RCP	REINFORCED CONCRETE PIPE
DI	DRAIN INLET	REL.	RELATIVE
DIA / DIAM / Ø	DIAMETER	REQ'D	REQUIRED
DEG./°	DEGREE	RIM	RIM ELEVATION
DEMO	DEMOLITION	S.A.D.	SEE ARCHITECT'S DRAWINGS
DF / DOUG. FIR	DOUGLAS FIR	SIM.	SIMILAR
DTL / DET.	DETAIL	S/SLP	SLOPE/SOUTH
(E) / EX.	EXISTING	(SB)	SOUTHBOUND
EA	EACH	SBR	STYRENE BUTADIENE RUBBER
(EB)	EASTBOUND	S.C.D.	SEE CIVIL DRAWINGS
EJ	EXPANSION JOINT	SCH	SCHEDULE
EL / ELEV.	ELEVATION	SD	STORM DRAIN
ELEC	ELECTRIC(AL)	S.L.D.	SEE LANDSCAPE DRAWINGS
EPDM	ETHYLENE PROPYLENE DIENE		SPECIFICATIONS
	MONOMER	SPK	SPRINKLER HEAD
EQ.	EQUAL	SQ	SQUARE
FG	FINISH GRADE	SS	SANITARY SEWER
FIN	FINISH	S.S.M.	SEE STRUCTURAL DRAWINGS
FF	FINISH FLOOR	SSS	SYNTHETIC SAFETY SURFACING
FFE	FINISH FLOOR ELEVATION	SST	STAINLESS STEEL
FT	FEET	STD	STANDARD
GAU	GAUGE	STL	STEEL
GAL	GALLON	SYNTH.	SYNTHETIC
	GALVANIZED		
GALV GPM	GALLONS PER MINUTE	TBD	TO BE DETERMINED
		TOPO	TOPOGRAPHIC MAP
HDPE	HIGH-DENSITY POLYETHYLENE	TC	TOP OF DAY/ENENT
HDWD	HARDWOOD	TP	TOP OF PAVEMENT
HOR	HORIZONTAL	TW	TOP OF WALL
HP	HIGH POINT	TYP.	TYPICAL
HSS	HOLLOW STRUCTURAL STEEL	UON	UNLESS OTHERWISE NOTED
ID	INTERIOR DIMENSION	VERT.	VERTICAL
INV	INVERT	W/	WITH
L.O.W.	LIMIT OF WORK	(WB)	WESTBOUND
LP	LOW POINT	WW/%	WIDE WITH PERCENT
MAY			

### PROJECT DIRECTORY

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GEOTECH: NINYO & MOORE	Ransom Hennefer	rhennefer@ninyoandmoore.com	408.435.9000

## APPLICABLE CODES

2022 California Building Code (2022 CBC)

Department of Justice 2010 American Disabilities Act Standards for Accessible Design ('2010 ADA')

Department of Justice Title II regulation of ADA (28 CFR Part 35)

Department of Justice Title III regulation of ADA (28 CFR Part 36)

ASTM F1487: Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, latest edition.

U.S. Consumer Product Safety Commission ('CPSC publication #325'): Public Playground Safety Handbook,

ASTM F1292, Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment, latest edition.

ASTM F1951: Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment, latest edition.

ASTM F2223: Standard Guide for ASTM Standards on Playground Surfacing, latest edition.

International Play Equipment Manufacturers Association ('IPEMA') Certification Service.

#### GENERAL NOTES

- 1. REFER TO GEOTECHNICAL EVALUATION, "JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND", BY NINYO AND MOORE, DATED FEBRUARY 18, 2022 AND SUPPLEMENTAL GEOTECHNICAL EVALUATION, "JOLLYMAN PARK NEW PRE-FABRICATED BATHROOM", BY NINYO AND MOORE, DATED DECEMBER 20,2022. CONTRACTOR TO ADHERE TO GEOTECH RECOMMENDATIONS FOR SUBGRADE PREPARATION SPECIFIC TO THIS PROJECT.
- 2. CITY REPRESENTATIVE TO ENGAGE GEOTECHNICAL ENGINEER FOR REQUIRED SITE OBSERVATION AND COMPACTION TESTING. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE WITH GEOTECHNICAL ENGINEER TO DETERMINE TIMING OF SITE VISITS.
- 3. CONTRACTOR TO VERIFY LOCATION OF ALL BUILDINGS, WALLS, CURBS, PATHS AND REMAINING PLAY EQUIPMENT AFFECTING LANDSCAPE SCOPE OF WORK WITH CIVIL ENGINEER'S DRAWINGS AND EXISTING CONDITIONS AT THE PROJECT SITE. NOTIFY CITY'S REPRESENTATIVE OF ANY CONFLICTS.
- 4. VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS AND THE EXISTING CONDITIONS ON THE PROJECT SITE.
- 5. ALL EXISTING UTILITY BOXES, VAULTS, VALVE COVERS, AND MANHOLES WITHIN THE AREA TO BE IMPROVED SHALL BE ADJUSTED TO THE NEW FINISH GRADE.
- 6. REFER TO CIVIL DRAWINGS FOR EXISTING CONDITIONS, DEMOLITION PLAN, REFERENCE DATA, GRADING, DRAINAGE, RESTROOM AND UTILITIES.
- 7. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
- 8. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 9. REFERENCE TO NORTH REFERS TO TRUE NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.

## DEMOLITION, GRADING/DRAINAGE, UTILITY, AND ADD'L NOTES

REFER TO CIVIL DWGS

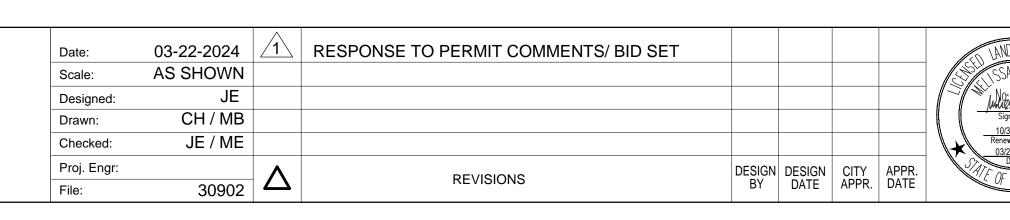
#### LAYOUT NOTES

REFER TO L2 LAYOUT NOTES

## **IRRIGATION AND PLANTING NOTES**

REFER TO L4 IRRIGATION NOTES AND L5 PLANTING NOTES







FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** G0.10 PROJECT DIRECTORY PUBLIC WORKS INSPECTOR: AND GENERAL NOTES VOICE MAIL:

- 2. APPROVAL OF THESE PLANS SHALL NOT RELEASE THE CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTIONS OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF/OR A DEPARTURE FROM THE CITY OF CUPERTINO STANDARD DETAILS OR THESE IMPROVEMENTS PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE COMPLETED.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE APPROVED PLANS OR THE LATEST REVISED PLANS ARE FURNISHED TO ITS SUBCONTRACTORS, AND TO ENSURE THE LATEST APPROVED PLANS ARE ONSITE AT ALL TIMES DURING CONSTRUCTION.
- 4. CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF WORK.
- THE CONTRACTOR SHALL LOCATE UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK FOR LOCATION OF THE UNDERGROUND FACILITIES.
- 6. ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS. FOR TYPICAL TRENCH SECTIONS, EXCEPT FOR FOR SANITARY SEWERS, REFER TO CITY STANDARD DETAILS.
- 7. TRENCH PLATES IN THE TRAVELLED WAY SHALL BE TRAFFIC RATED, PROPERLY SECURED AND SHALL BE RECESSED UPON THE REQUEST OF
- 8. ALL TRENCH LOCATED WITHIN5' OF THE EDGE OF PAVEMENT (IE. CURB, LIP OF GUTER, EDGE OF PAVEMENT, ETC.) SHALL BE PEPAVED TO THE EDGE OF PAVEMENT.
- 9. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND BACKFILLED BEFORE PLACEMENT OF THE BASE MATERIAL AND SURFACE STRUCTURES. IF UTILITIES ARE TO BE INSTALLED SUBSEQUENTLY, A WRITTEN NOTIFICATION FROM THE AFFECTED UTILITY COMPANY INDICATING ITS COMMITMENT TO BORE OR TUNNEL SHALL BE SUBMITTED TO THE CITY ENGINEER BEFORE PROCEEDING WITH THE WORK. UNDERGROUND UTILITIES, EXCEPT STORM DRAINS AND SANITARY SEWERS, SHALL NOT BE PERMITTED IN PAVEMENT AREA, WITH THE EXCEPTION OF STREET CROSSINGS, UNLESS APPROVED BY THE CITY ENGINEER.
- 10. ALL WATER LINES, VALVES, HYDRANTS, AND APPURTENANCES THERETO INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THE PROPERTY OF THE WATER UTILITY COMPANY.
- 11. ALL NEW RIGHT OF WAY PAVEMENT SHALL MATCH THE EXISTING PAVEMENT SECTION. A MINIMUM PAVEMENT SECTION OF 3"AC/6"CLASS 2
- 12. EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.
- 13. STORM DRAIN LINES INSTALLED AS PART OF THE WORK ON THESE PLANS SHALL BE CLEARED OF ALL DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL ACCEPTANCE.
- 14. THE CITY SHALL PAY ALL COSTS FOR MOISTURE—DENSITY CURVES (CALIF. TEST NO. 216E) AND ANY OTHER TESTS REQUIRED BY THE CITY ENGINEER DURING STREET CONSTRUCTION.
- 15. TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR PROPOSED RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED OF PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.
- 16. MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE PRIOR TO FINAL SIGNOFF.
- 17. FIVE (5) WORKING DAYS PRIOR TO INSTALLING PERMANENT STRIPING, THE CONTRACTOR SHALL CAT TRACK THE STRIPING AND REQUEST REVIEW OF THE CAT TRACKS BY THE CITY TRAFFIC ENGINEER. THE CITY ENGINEER SHALL HAVE THE RIGHT TO MAKE CHANGES IN THE LOCATION OF THE ALIGNMENT OF TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS.
- 18. CONCRETE FOR USE IN ALL CONCRETE STRUCTURES SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 90. DROP INLETS, SIDEWALKS, CURBS AND GUTTERS SHALL CONTAIN 590 LBS. OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM STRENGTH OF 3,000 PSI IN 28 DAYS.
- 19. DROP INLETS SHALL BE CONSTRUCTED CONFORMING TO CITY STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS. DROP INLETS SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER 'NO DUMPING FLOWS TO THE BAY. PLAQUE SHALL BE INSTALLED ON THE CURB ADJACENT TO ALL INLETS.
- 20. ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.
- 21. CONSTRUCTION SURVEY STAKES OR MARKS (CONTROL STAKES) TO ESTABLISH LINES AND GRADES SHALL BE SET BY THE CONTRACTOR'S SURVEYOR OR ENGINEER.
- 22. NOTIFY THE CITY INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF REQUIRING SERVICES FOR CHECKING FIELD STAKING. THREE (3) COPIES OF THE CUT SHEETS SHALL BE FURNISHED TO THE CITY INSPECTOR.
- 23. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND ENSURING THE AREA ADJACENT TO THE WORK IS LEFT IN A CLEAN CONDITION.
- 24. CONTRACTOR SHALL REVIEW CITY DETAIL 6-4 ON TREE PROTECTION PRIOR TO ACCOMPLISHING ANY WORK OR REMOVING ANY TREES.
- 25. UTILIZE BEST MANAGEMENT PRACTICES (BMP'S), AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD, FOR ANY ACTIVITY, WHICH DISTURBS THE SOIL.

#### **CUPERTINO SANITARY DISTRICT SANITARY SEWER NOTES**

- 1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, THE CURRENT CUPERTINO SANITARY DISTRICT STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS, AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' REQUIREMENTS AND SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH ALL CURRENT LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 3. ALL EXCAVATION, BACKFILL, AND PAVEMENT SECTION WITHIN STREET RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER OF THE PUBLIC AGENCY HAVING JURISDICTION AND DISTRICT STANDARD SPECIFICATIONS AND DETAILS. IN CASE OF CONFLICT BETWEEN PUBLIC AGENCY AND DISTRICT, AGENCY'S REQUIREMENTS SHALL TAKE PRECEDENCE.
- 4. AGENCY'S ENCROACHMENT PERMITS SHALL BE OBTAINED AND A COPY SHALL BE ON THE JOB DURING CONSTRUCTION.
- 5. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF TWO AND ONE HALF (2.5) FEET ABOVE THE TOP OF PIPE ELEVATION BY METHODS THAT WILL NOT DAMAGE THE PIPE OR TWO (2) SLURRY MIX. FILL MATERIAL MUST ATTAIN A MINIMUM OF NINETY FIVE PERCENT (95%) RELATIVE COMPACTION IN PAVEMENT AREAS IN ACCORDANCE WITH THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
- 6. THE DISTRICT ENGINEER SHALL BE NOTIFIED TWO (2) WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION, 20863 STEVENS CREEK BOULEVARD, SUITE 100, CUPERTINO, CA 95014 (408) 253-7071. AT THAT TIME, TRAFFIC PLANS, ENCROACHMENT PERMITS AND THE SEWER DIVERSION PLANS SHALL BE SUBMITTED TO THE DISTRICT ENGINEER. SEWER DIVERSION PLANS SHALL INCLUDE SEWAGE BYPASS AND EMERGENCY PLANS. WORK SHALL NOT BEGIN UNTIL THE DISTRICT ENGINEER HAS PROVIDED WRITTEN ACCEPTANCE OF THESE PLANS.
- 7. ONE (1) SANITARY SEWER LATERAL SHALL BE INSTALLED FOR EACH LOT, RESIDENTIAL UNIT OR BUILDING WITH A CLEAN-OUT. LOCATION OF LATERAL AND PROPERTY CORNERS TO BE STAKED IN FIELD AT THE SAME TIME THE SEWER MAIN IS STAKED FOR CONSTRUCTION. LATERALS SHALL NOT BE LAID ON LESS THAN TWO PERCENT (2%) GRADE AND SHALL HAVE A MINIMUM COVER OF FOUR AND ONE HALF (4.5) FEET AT PROPERTY LINE OR EDGE OF SANITARY SEWER EASEMENT. LATERALS SHALL BE DEEPER THAN FOUR AND ONE HALF (4.5) FEET WHEN DIRECTED BY DISTRICT ENGINEER. LATERALS SHALL NOT BE EXTENDED BEYOND THE STREET RIGHT-OF-WAY LINE OR SANITARY SEWER EASEMENT LINE UNTIL THE MAIN HAS BEEN TESTED. LATERAL SEWERS CONSTRUCTED OUTSIDE OF THE PUBLIC STREET OR CUPERTINO SANITARY DISTRICT EASEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF, AND SHALL BE INSPECTED BY THE CITY BUILDING DEPARTMENT.
- 8. EXISTING LATERALS TO BE ABANDONED (OR NOT USED) SHALL BE REMOVED TO THE WYE, CAPPED AND CONCRETE COLLAR MINIMUM OF 6" ALL AROUND.
- THE CONTRACTOR PERFORMING WORK ON THE SANITARY SEWERS SHALL BE REQUIRED TO REGISTER WITH THE DISTRICT AND PROVIDE INSURANCE AS SPECIFIED IN SECTIONS 1.39 AND 1.40 OF THE DISTRICT'S STANDARD SPECIFICATIONS.
- 10. THE CITY AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING IMPROVEMENTS INCLUDING EXISTING SANITARY SEWER FACILITIES THAT ARE TO REMAIN AND IF DAMAGED DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, SHALL BE REPAIRED TO THE SATISFACTION OF THE CUPERTINO SANITARY DISTRICT AND OTHER AFFECTED AGENCIES.
- 11. CHANNELS OF ALL DISTRICT MANHOLES WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED BY PLYWOOD COVERS, PLACED IN THE MANHOLES AND MANHOLE CASTINGS SHALL BE ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CUPERTINO SANITARY DISTRICT OR AS DIRECTED BY THE DISTRICT ENGINEER.
- 12. THE CITY AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF CONSTRUCTION DEBRIS ENTERING THE EXISTING SANITARY SEWER SYSTEM DUE TO THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT AND THE CITY AND CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH THE RELEASE OF CONSTRUCTION DEBRIS INTO THE EXISTING SANITARY SEWER SYSTEM DUE TO THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- 13. THE CITY AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF A SEWAGE SPILL ASSOCIATED THE CONTRACTORS ACTIVITIES AND SHALL PAY ALL COSTS ASSOCIATED WITH THE RELEASE OF SEWAGE INTO SURFACE DRAINAGE SYSTEM AND DOWNSTREAM SURFACE WATERS.
- 14. UTILITY NOTIFICATION:
- a. UNDERGROUND SERVICE ALERT 800-227-2600
   b. STORM DRAINS CITY
- c. SANITARY SEWERS CUPERTINO SANITARY DISTRICT
- 15. CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES CROSSING NEW SEWER MAIN OR LATERAL CONSTRUCTION
- 16. ALL SANITARY SEWER PIPES SHALL BE PVC—SDR26 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED BY THE DISTRICT ENGINEER.
- 17. ACCESS FOR PEDESTRIANS AND VEHICLES SHALL BE PROVIDED AT ALL TIMES UNLESS APPROVED IN WRITING BY THE DISTRICT ENGINEER.
- 18. SANITARY SEWER MANHOLES, FLUSHING INLETS AND CLEANOUTS SHALL BE MARKED WITH "SANITARY" OR "SANITARY
- 19. AT THE CITY/GENERAL CONTRACTOR'S EXPENSE, CLOSED CIRCUIT VIDEO INSPECTION OF MAINS, LATERALS AND PROPERTY LINE CLEAN—OUTS IS REQUIRED. WHEN THE USE OF AN EXISTING LATERAL IS PROPOSED, AN ADDITIONAL VIDEO INSPECTION IS REQUIRED PRIOR TO CONSTRUCTION TO VERIFY THAT IT MEETS THE CURRENT DISTRICT
- 20. APPROVAL OF THESE PLANS BY CUPERTINO SANITARY DISTRICT DOES NOT RELIEVE THE CITY/GENERAL CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS. IF, DURING THE COURSE OF CONSTRUCTION OF THE SANITARY SEWERS THE PUBLIC INTEREST REQUIRES A MODIFICATION OF, OR A DEPARTURE FROM THE DISTRICT SPECIFICATIONS AND/OR DETAILS, THE DISTRICT ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE MODIFICATIONS OR DEPARTURE IS TO BE DONE.
- 21. CONDITIONS OF APPROVAL TO BE MET DURING CONSTRUCTION:
- INSTALL TWO (2) NEW SANITARY SEWER LOWER LATERALS TO DISTRICT'S STANDARDS. LOWER LATERALS MUST BE 6" PVC SDR26 AS SHOWN ON PLANS. LOWER LATERALS MUST EXTEND FROM THE SANITARY SEWER MAIN OR MANHOLE TO THE PROPERTY LINE FRONTING THE CITY RIGHT-OF-WAY.
- •• THE CONTRACTOR PERFORMING WORK ON THE DISTRICT OWNED SANITARY SEWERS SHALL BE REQUIRED TO REGISTER WITH THE DISTRICT AND PROVIDE INSURANCE AS SPECIFIED IN SECTION 1.39 AND 1.40 OF THE DISTRICT'S STANDARD SPECIFICATIONS.
- INSTALL TWO (2) NEW PROPERTY LINE CLEANOUTS TO DISTRICT'S STANDARDS. SEE ATTACHED DETAIL. PROPERLY LINE CLEANOUT MUST BE WITHIN 5 FEET OF THE PROPERTY LINE. CLEANOUT SHALL BE THE SAME DIAMETER AS THE STREET PORTION OF THE SERVICE LATERAL. GRAVITY LATERAL IS 6" DIAMETER. (O.C'. 4101)
   CUPERTINO SANITARY DISTRICT INITIAL (VISUAL) INSPECTION REQUIRED. CONTRACTOR SHALL LEAVE NEW PIPE
- A DISTRICT INSPECTOR FOR A VISUAL INSPECTION. (O.C. 5203)

  CUPERTINO SANITARY DISTRICT FINAL (CCTV) INSPECTION AND APPROVAL OF THE NEW PROPERTY LINE CLEANOUT, POINT OF CONNECTION, AND DISTRICT LATERAL IS REQUIRED PRIOR TO CLEARANCE FOR CITY OF CUPERTINO FINAL INSPECTION. CONTRACTOR MUST ALLOW DISTRICT AT LEAST 48 HOURS NOTICE TO SCHEDULE A DISTRICT INSPECTOR FOR A VIDEO INSPECTION. DISTRICT TO PROVIDE BUILDING DEPARTMENT WITH WRITTEN NOTIFICATION UPON COMPLETION OF INSPECTION. (O.C. 7102)

INSTALLATION EXPOSED. DO NOT BACKFILL. CONTRCATOR TO CONTACT DISTRICT 48 HOURS PRIOR TO SCHEDULING

## PROJECT GENERAL NOTES

- 1. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CUPERTINO STANDARD DETAILS & CUPERTINO SANITARY SEWER DISTRICT STANDARD SPECIFICATIONS AND DETAILS. ON-SITE IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 2. THESE PLANS AND PROJECT SPECIFICATIONS, INCLUDING GRADES AND STREET DRAINAGE ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION. SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN, ANY SUCH MODIFICATION SHALL BE APPROVED BY THE CONSULTANTS, MIG/BKF.
- 3. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AGENCY ENGINEER AND BKF ENGINEERS. ANY DEVIATIONS OR

CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.

- 4. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF CALIFORNIA BEST MANAGEMENT PRACTICES HANDBOOK FOR APPLICABLE CONTROL MEASURES AND EMPLOY ITS PROVISIONS THROUGHOUT ALL CONSTRUCTION.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY TO PERFORM THE IMPROVEMENTS IN THESE PLANS FROM THE APPROPRIATE AGENCIES AND TO COMPLY WITH THE AGENCIES' REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS.
- 6. WHEN IT IS FOUND THAT FIELD CONDITIONS ARE NOT AS SHOWN ON THE PLANS, THE CONSULTING ENGINEER MUST MAKE REVISIONS AND/OR ADJUSTMENTS TO THE SATISFACTION OF THE CITY ENGINEER/OWNER PRIOR TO FURTHER CONSTRUCTION.
- 7. CONTRACTOR SHALL CAREFULLY PRESERVE THE SURROUNDING PROPERTY BY CONFINING OPERATION WITHIN THE LIMIT OF WORK AREA. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE CITY INSPECTOR AND THE DESIGN ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- 9. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALK, GRADING, ETC AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- 10. DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS. BACKFILL OR COVER OPEN TRENCHES WITH STEEL TRENCH PLATES AT THE END OF THE WORK EVERY WORK DAY.
- 11. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY. THE CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF TRAFFIC CONTROL PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 12. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE PRIOR TO THE START OF WORK.
- 13. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
- 14. BKF ENGINEERS DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES OF ANY CONTROL OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY BKF
- 15. THE GENERAL CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERVISOR/SUPERINTENDENT ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- 16. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER.
- 17. CONTRACTOR SHALL KEEP UP-TO-DATE A COMPLETE SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT LOCATIONS, SIZES, MATERIALS AND EQUIPMENT. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWINGS PRINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE ENGINEER.
- 18. ALL ON-SITE GRADING AND PAVING SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN PREPARED BY NINYO & MOORE INC, DATED FEBRUARY 18, 2022, AND TO THE CITY STANDARD PLANS AND PROJECT SPECIFICATIONS, AS APPLICABLE.

#### UTILITY NOTES

- 1. THE CONTRACTOR SHALL COORDINATE UTILITY RELOCATION WORK WITH RESPONSIBLE AGENCIES.
- 2. GRAVITY FLOW UTILITIES SHALL BE CONSTRUCTED FROM DOWNSTREAM CONNECTION POINT TO UPSTREAM TERMINUS.
- 3. PROVIDE MINIMUM 12-INCH VERTICAL CLEARANCE BETWEEN ADJACENT UTILITY PIPES AT UTILITY CROSSINGS UNLESS OTHERWISE NOTED ON PLANS.
- THE CONTRACTOR SHALL NOTIFY UTILITY PROVIDER MINIMUM 2 WORKING DAYS PRIOR TO COMMENCING WORK OR CONNECTION TO EXISTING UTILITIES. IF EXISTING WATER, STORM DRAIN, SEWER, GAS OR OTHER UTILITY SERVICES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, NOTIFY UTILITY OWNER IMMEDIATELY.
- 5. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE CAUSED BY CONTRACTOR'S WORK.
- 6. UTILITY STRUCTURES IN PAVED AREAS SHALL BE PROVIDED WITH MATERIALS SUITABLE FOR H-20 LOADING.
- 7. PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.
- 8. JOINT TRENCH LINES AND APPURTENANCES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL REFERENCE JOINT TRENCH PLANS FOR INSTALLATION OF THESE FACILITIES.
- 9. CONTRACTOR SHALL STENCIL ALL CATCH BASINS WITH THE NON-POINT-SOURCE "NO DUMPING" MESSAGE. CONTRACTOR TO COORDINATE WITH THE CITY ENGINEER FOR THE MEDALLION.
- 10. THE EXISTING UTILITY CROSSING THE NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITY CROSSINGS (BOTH MAINS AND LATERALS) ARE CORRECTLY SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
- 11. ALL UTILITY STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, WATER VALVES, FIRE HYDRANTS, CABLE TV, TELEPHONE, AND ELECTRIC VAULTS AND PULL BOXES ETC. THAT LIE WITHIN THE PUBLIC RIGHT OF WAY, EASEMENTS, OR AREAS AFFECTED BY THE WORK ON THE PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR OF THE RESPECTIVE UTILITY COMPANY FOR WHICH THE CONTRACTOR IS RESPONSIBLE TO COORDINATE.
- 12. ON-SITE PVC SANITARY SEWER AND STORM DRAIN PIPE & FITTINGS SHALL CONFORM TO ASTM-D3034 AND F-679, SDR 26 PVC GRAVITY SEWER PIPE, AS MANUFACTURED BY JM PIPE OR APPROVED EQUAL. SANITARY SEWER LATERALS SHALL BE A MINIMUM OF 1' BELOW WATER LATERALS, UNLESS OTHERWISE NOTED. SEWER LINE TESTING SHALL BE PERFORMED IN ACCORDING WITH THE REQUIREMENTS OF THE MOST CURRENT BUILDING CODE.
- 13. CONTRACTOR SHALL COORDINATE UTILITY INFORMATION SHOWN ON THE PLANS WITH INSTALLATION OF PG&E, CABLE, TELEPHONE, AND/OR JOINT TRENCH LAYOUT AND DETAILS.
- 14. CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND DOWNSTREAM, CONTRACTOR SHALL PROCEED AT OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH CITY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY CROSSINGS PRIOR TO COMMENCEMENT OF CONSTRICTION.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE AND/OR UNCOVER AND EXPOSE EXISTING UTILITIES AT CROSSING LOCATIONS. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND SERVICE LATERALS FROM DAMAGE DUE TO CONTRACTOR'S OPERATIONS. ANY AND ALL UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF

#### **EXISTING CONDITIONS NOTES**

- 1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS ARE BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY BY BKF, DATED NOVEMBER 2022. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE. SHOULD GRADES ENCOUNTERED VARY FROM THOSE SHOWN, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
- 2. EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER AND FIELD SURVEY OF ABOVE GRADE FEATURES. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY THE DESIGN ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.
- 3. IF CONTRACTOR FAILS TO INVESTIGATE KNOWN AND UNKNOWN EXISTING SUBSURFACE IMPROVEMENTS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND UNFORESEEN CONDITIONS ARISE, ALL COSTS AND SCHEDULE IMPACTS WILL BE BORNE BY THE CONTRACTOR.
- 4. CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS FOR PRIVATE PROPERTIES ADJACENT TO CONSTRUCTION AREAS THROUGHOUT CONSTRUCTION PERIOD.

#### **DEMOLITION NOTES**

- 1. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES AS INDICATED ON PLANS.
- 2. CONTRACTOR TO COORDINATE WORK WITH GOVERNING AGENCIES FOR EXISTING FIRE AND DOMESTIC LINES AND STRUCTURES WITHIN LIMIT OF WORK

#### RECORD DRAWINGS

1. THE CONTRACTOR SHALL KEEP ACCURATE RECORD OF FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK ON A COPY OF FINAL APPROVED CONSTRUCTION DOCUMENTS. NOTE THE LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS ENCOUNTERED THAT VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS. THE CONTRACTOR SHALL PROVIDE COPY OF RECORD INFORMATION TO CITY PUBLIC WORKS.

#### STATEMENT OF RESPONSIBILITY

AGGREGATE BASE

CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CITY, ITS AGENTS, AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.

#### **ELECTRIC, TELEPHONE, GAS & CATY UTILITY INSTALLATION**

THE ELECTRIC, TELEPHONE, GAS AND CABLE TV UTILITIES PLANS ARE PRELIMINARY, THESE UTILITIES SHALL NOT BE INSTALLED UNTIL THE FINAL JOINT UTILITY PLANS HAVE BEEN APPROVED BY THE PUBLIC WORKS DEPARTMENT AND UTILITY COMPANIES. AS—BUILT JOINT UTILITY PLANS SHALL BE INCLUDED WITH THE AS—BUILT OF THESE PLANS.

AB	AGGREGATE BASE	(F)	FUTURE	P.S.D.E.	DRAIN EASEMENT
AC	ASPHALT CONCRETE	(F) FC	FLUSH CURB	חכר	
AD	AREA DRAIN	FF	FINISHED FLOOR ELEVATION	P.S.E.	PUBLIC SERVICE EASEMENT
AGG	AGGREGATE	FG	FINISHED GRADE	PT	POINT
APPROX	APPROXIMATE	FH	FIRE HYDRANT	P.U.E.	PUBLIC UTILITY EASEMENT
BB	BUBBLER BOX	FL	FLOW LINE	PV	PAVEMENT
BC	BEGINNING OF CURVE	FM	FORCE MAIN	PVC	POLYVINYL CHLORIDE
BCR	BEGIN CURB RETURN	FM FOD	FORCE MAIN	PVI	POINT OF VERTICAL INTERSECT
BLDG	BUILDING	FOB	FACE OF BUILDING	R	RADIUS
BLDG		FP	FINISHED PAVEMENT	RCP	REINFORCED CONCRETE PIPE
ВМ	BENCH MARK	FT	FEET		
ВО	BLOWOFF	G	GAS	RIM EL	RIM ELEVATION
BOV	BLOWOFF VALVE	GI	GRATE INLET	RPPA	REDUCED PRESSURE
BVC	BEGIN VERTICAL CURVE	GB	GRADE BREAK		PRINCIPAL ASSEMBLY
	BACK OF WALK/	GE	GARAGE ELEVATION	RT	RIGHT
BW	BOTTOM OF WALL	GM	GAS METER	RS	RESILIENT SURFACE
CB	CATCH BASIN	HP	HIGH POINT	R/W	RIGHT OF WAY
CS	CONCRETE SLAB			s' "	SLOPE
CDS	CUL-DE-SAC	HV	HIGH VOLTAGE	(S)	SOUTH
CSD		I.E.E.	INGRESS/EGRESS EASEMENT	SD	
	CUPERTINO SANITARY DISTRICT	INV	INVERT		STORM DRAIN
C&G	CURB & GUTTER	IRR	IRRIGATION	S.D.E.	STORM DRAIN EASEMENT
C , CL	CENTERLINE	JT	JOINT TRENCH	SDMH	STORM DRAIN MANHOLE
CMP	CORRUGATED METAL PIPE	LAT	LATERAL	SHT.	SHEET
CO	CLEANOUT	Ē.	LENGTH	SJWC	SAN JOSE WATER
CONC	CONCRETE	ĹF	LINEAR FEET		COMPANY
CR	CEIRTEERRECTEIRWERTICAL CURVE	ĽĠ	LIP OF GUTTER	S.L.D.	SEE LANDSCAPE DRAWINGS
CVC		LP	LOW POINT	SS	SANITARY SEWER
DEFL	DEFLECTION	LT	LEFT	SSMH	SANITARY SEWER
DG	DECOMPOSED GRANITE				MANHOLE
DI	DROP INLET	MAX	MAXIMUM	ST.	STREET
DIP	DUCTILE IRON PIPE	MB	MOW BAND	STA	STATION
DIA	DIAMETER	MH	MANHOLE	STD	STANDARD
DIA	DOWNSPOUT	MIN	MINIMUM	S/W	SIDEWALK
DW DS	DOMESTIC WATER	MON	MONUMENT	J OD TELE	
		OR			TELEPHONE
D/W	DRIVEWAY		ORIFICE	T&B	TOP AND BOTTOM
DWG	DRAWING	(N)	NORTH/NEW	TC	TOP OF CURB
ELEC	ELECTRIC	ΝΌ., #	NUMBÉR	TEMP	TEMPORARY
(E) EC	EAST	NTS "	NOT TO SCALE	TG	TOP OF GRATE
ĚĆ	END OF CURVE	P.A.E.	PUBLIC ACCESS EASEMENT	TP	TOP OF PAVEMENT
ECR	END OF CURB RETURN		POINT OF COMPOUND CURVE or	TYP.	TYPICAL
EL	ELEVATION	PCC	PORTLAND CEMENT CONCRETE	VC	VERTICAL CURVE
EP		חר		VERT.	VERTICAL
EP	EDGE OF PAVEMENT	PE	PAD ELEVATION	W	WATER
E.V.A.E.	EMERGENCY VEHICLE	PG&E	PACIFIC GAS AND ELECTRIC		
	ACCESS EASEMENT	PL	PROPERTY LINE PROPOSED	(W)	WEST
EVC	END VERTICAL CURVE	PROP	PROPOSED	w/	WITH
EW	EACHWAY	P.O.C.	POINT OF CONNECTION	W	WATERLINE
EX	EXISTING	PRC	POINT OF REVERSE CURVE	WM	WATER METER
				WV	WATER VALVE

**ABBREVIATIONS** 

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SUITE 600
SAN JOSE, CA 95112
(408) 467-9100
www.bkf.com

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 03-22-2024
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PROFESSIONAL PROFE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT # CUPERTINO

PUBLIC WORKS INSPECTOR:

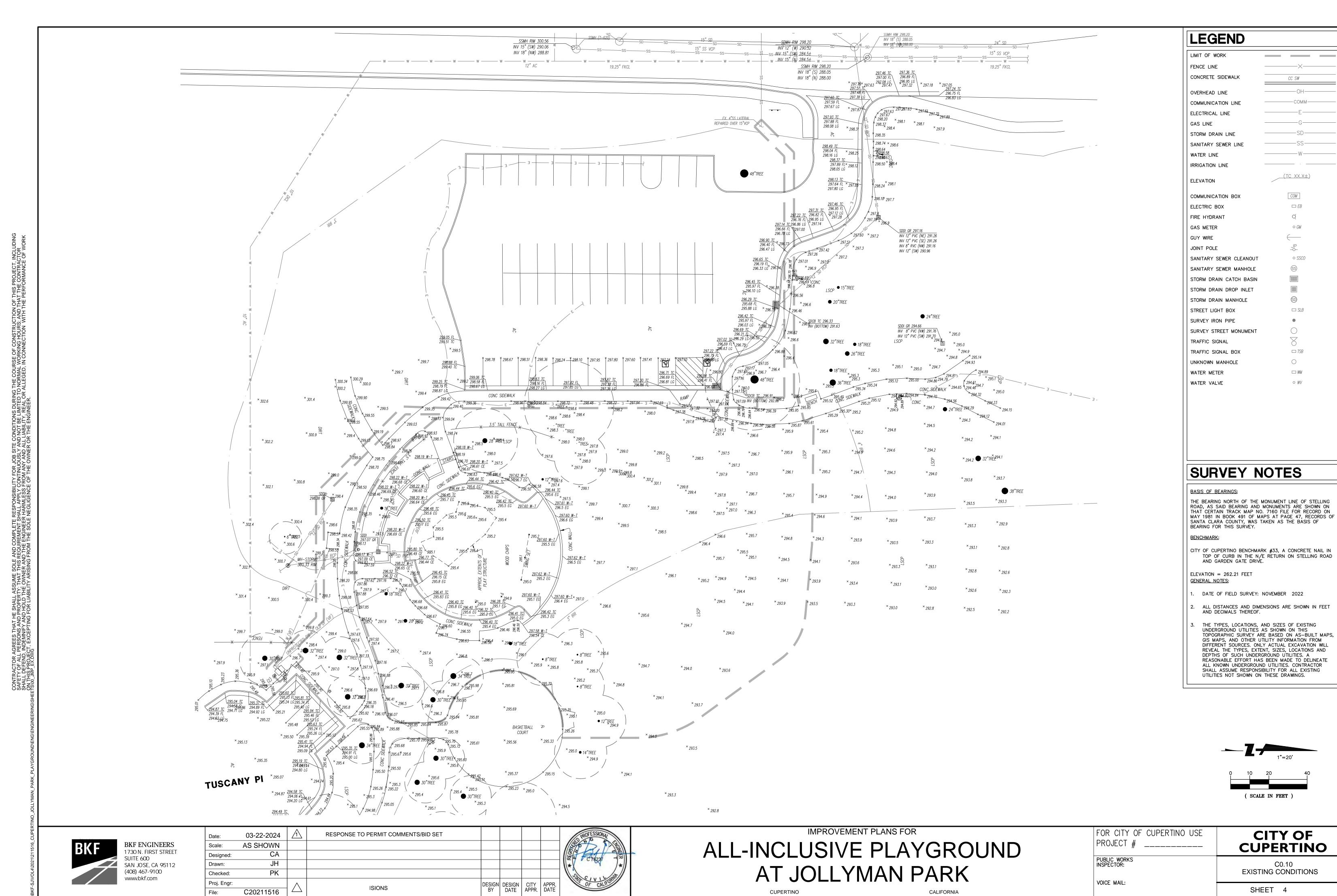
VOICE MAIL:

SHEET 3

**DESCRIPTION** 

PRIVATE STORM

DCDE



#### CITY OF CUPERTINO GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION, AS AMENDED), AND STANDARD PLANS (LATEST EDITION, AS AMENDED), AND CITY OF CUPERTINO STANDARD DETAILS. THE CONTRACTOR SHALL PERFORM THE WORK DESCRIBED IN THE SPECIFICATION, AND AS SHOWN ON THE DRAWINGS, AND TO THE SATISFACTION OF THE CITY
- APPROVAL OF THESE PLANS SHALL NOT RELEASE THE OWNER OR CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTIONS OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF/OR A DEPARTURE FROM THE CITY OF CUPERTINO STANDARD DETAILS OR THESE IMPROVEMENTS PLANS, THE CITY ENGINEER SHALL
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS ONLY FOR PUBLIC RIGHT-OF-WAY IMPROVEMENTS (INCLUDING STORM DRAIN IN THE RIGHT OF WAY), AND NOT FOR WATER, SEWER OR DRY UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE REVIEWS AND APPROVAL FROM EACH OF THE UTILITY COMPANIES, AND TO PROVIDE APPROVAL LETTERS AS REQUESTED.

HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE COMPLETED, AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.

- . IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE APPROVED PLANS OR THE LATEST REVISED PLANS ARE FURNISHED TO ITS SUBCONTRACTORS, AND TO ENSURE THE LATEST APPROVED PLANS ARE ONSITE AT ALL TIMES DURING CONSTRUCTION.
- . CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF WORK.
- THE CONTRACTOR SHALL LOCATE UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK FOR LOCATION OF THE UNDERGROUND FACILITIES.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND BACKFILLED BEFORE PLACEMENT OF THE BASE MATERIAL AND SURFACE STRUCTURES. IF UTILITIES ARE TO BE INSTALLED SUBSEQUENTLY, A WRITTEN NOTIFICATION FROM THE AFFECTED UTILITY COMPANY INDICATING ITS COMMITMENT TO BORE OR TUNNEL SHALL BE SUBMITTED TO THE CITY ENGINEER BEFORE PROCEEDING WITH THE WORK. UNDERGROUND UTILITIES, EXCEPT STORM DRAINS AND SANITARY SEWERS, SHALL NOT BE PERMITTED IN PAVEMENT AREA, WITH THE EXCEPTION OF STREET CROSSINGS, UNLESS APPROVED BY THE CITY ENGINEER.
- ALL WATER LINES, VALVES, HYDRANTS, AND APPURTENANCES THERETO INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THE PROPERTY OF THE WATER UTILITY COMPANY.
- 9. ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION. FOR TYPICAL TRENCH SECTIONS, EXCEPT FOR SANITARY SEWERS, REFER TO THE CITY STANDARD DETAILS.
- 10. TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR PROPOSED RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED OF PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.
- . TRENCH PLATES IN THE TRAVELED WAY SHALL BE TRAFFIC RATED, PROPERTY SECURED AND SHALL BE RECESSED UPON THE REQUEST OF THE DIRECTOR OF PUBLIC WORKS.
- 12. ALL TRENCHES LOCATED WITHIN 5' OF THE EDGE OF PAVEMENT (IE. CURB, LIP OF GUTTER, EDGE OF PAVEMENT, ETC.) SHALL BE REPAVED TO THE EDGE OF PAVEMENT.
- 3. ALL NEW PAVEMENT SHALL MATCH THE EXISTING PAVEMENT SECTION. A MINIMUM PAVEMENT SECTION OF 3" AC/6" CLASS 2 AB IS REQUIRED.
- 14. EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.
- 15. MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE PRIOR TO FINAL SIGNOFF
- 16. FIVE (5) WORKING DAYS PRIOR TO INSTALLING PERMANENT STRIPING, THE CONTRACTOR SHALL CAT TRACK THE STRIPING AND REQUEST REVIEW OF THE CAT TRACKS BY THE CITY TRAFFIC ENGINEER. THE CITY ENGINEER SHALL HAVE THE RIGHT TO MAKE CHANGES IN THE LOCATION OF THE ALIGNMENT OF TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS.
- 7. CONCRETE FOR USE IN ALL CONCRETE STRUCTURES SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 90. DROP INLETS, SIDEWALKS, CURBS AND GUTTERS SHALL CONTAIN 590 LBS. OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM STRENGTH OF 3,000 PSI IN 28 DAYS.
- 18. DROP INLETS SHALL BE CONSTRUCTED CONFORMING TO CITY STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS. DROP INLETS SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER "NO DUMPING FLOWS TO THE BAY."PLAQUE SHALL BE INSTALLED ON THE CURB ADJACENT TO ALL INLETS.
- 19. A MINIMUM THICKNESS OF FIVE (5) INCHES OF CONCRETE SHALL BE REQUIRED FOR COMMERCIAL DRIVEWAY APPROACHES AND FOUR (4) INCHES FOR RESIDENTIAL. THE DRIVEWAY APPROACH SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER.
- 20. ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.
- 21. CONSTRUCTION SURVEY STAKES OR MARKS (CONTROL STAKES) TO ESTABLISH LINES AND GRADES SHALL BE SET BY THE CONTRACTOR'S SURVEYOR OR ENGINEER
- 22. NOTIFY THE CITY INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF REQUIRING SERVICES FOR CHECKING FIELD STAKING. THREE (3) COPIES OF THE CUT SHEETS SHALL BE FURNISHED TO THE CITY INSPECTOR.
- 23. ALL PUBLIC IMPROVEMENTS MUST BE COMPLETED PRIOR TO OCCUPANCY.
- 24. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND ENSURING THE AREA ADJACENT TO THE WORK IS LEFT IN A CLEAN CONDITION.
- 25. CONTRACTOR SHALL REVIEW CITY DETAIL 6—4 ON TREE PROTECTION PRIOR TO ACCOMPLISHING ANY WORK OR REMOVING ANY TREES.
- 26. UTILIZE BEST MANAGEMENT PRACTICES (BMP'S), AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD, FOR ANY ACTIVITY, WHICH DISTURBS THE SOIL.
- 27. PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PULLING AN ENCROACHMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT.

#### **PROJECT GENERAL NOTES**

- ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CUPERTINO STANDARD SPECIFICATIONS. ON-SITE IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- THESE PLANS AND SPECIFICATIONS, INCLUDING GRADES AND STREET DRAINAGE ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION. SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN, ANY SUCH MODIFICATION SHALL BE APPROVED BY THE CITY ENGINEER.
- TOR SHALL RE HELD RESPONSIBLE FOR ANY FIELD CHANCES MADE WITHOLLT WRITTEN ALLTHORIZATION FROM THE LOCAL ACENCY ENGINEER AND RKE ENGINEERS. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF CALIFORNIA BEST MANAGEMENT PRACTICES HANDBOOK FOR APPLICABLE CONTROL MEASURES AND EMPLOY ITS PROVISIONS THROUGHOUT ALL CONSTRUCTION.
- IT IS RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY TO PERFORM THE IMPROVEMENTS IN THESE PLANS FROM THE APPROPRIATE AGENCIES AND TO COMPLY WITH THE
- AGENCIES' REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS. WHEN IT IS FOUND THAT FIELD CONDITIONS ARE NOT AS SHOWN ON THE PLANS, THE CONSULTING ENGINEER MUST MAKE REVISIONS AND/OR ADJUSTMENTS TO THE SATISFACTION OF THE CITY
- ENGINEER/OWNER PRIOR TO FURTHER CONSTRUCTION. CONTRACTOR SHALL CAREFULLY PRESERVE THE SURROUNDING PROPERTY BY CONFINING OPERATION WITHIN THE LIMIT OF WORK AREA. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME
- DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER/OWNER
- B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE CITY INSPECTOR AND THE DESIGN ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALK, S GRADING, ETC AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- O. DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS. BACKFILL OR COVER OPEN TRENCHES WITH STEEL TRENCH PLATES AT THE END OF THE WORK EVERY WORK DAY.
- CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY. THE CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF TRAFFIC CONTROL PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 12. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE
- 13. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
- CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY BKF ENGINEERS.
- 5. THE GENERAL CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERVISOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE ENGINEER.

**BKF ENGINEERS** 

1730 N. FIRST STREET

SAN JOSE, CA 95112

SUITE 600

- 6. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE
- AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER. 17. CONTRACTOR SHALL KEEP UP-TO-DATE A COMPLETE SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT LOCATIONS, SIZES, MATERIALS AND EQUIPMENT. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWINGS PRINTS SHALL BE SUBMITTED TO THE
- 18. ALL ON-SITE GRADING AND PAVING SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN PREPARED BY NINYO & MOORE, DATED FEBRUARY 18, 2022, AND TO THE CITY STANDARD PLANS AND SPECIFICATIONS, AS APPLICABLE.

### **EXISTING CONDITIONS NOTES**

- EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS ARE BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY BY BKF, DATED FEBRUARY 3, 2022. CONTRACTOR 1. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE. SHOULD GRADES ENCOUNTERED VARY FROM THOSE SHOWN, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
- EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER AND FIELD SURVEY OF ABOVE GRADE FEATURES. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY THE DESIGN ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.
- IF CONTRACTOR FAILS TO INVESTIGATE KNOWN AND UNKNOWN EXISTING SUBSURFACE IMPROVEMENTS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND UNFORESEEN CONDITIONS ARISE, ALL COSTS AND SCHEDULE IMPACTS WILL BE BORNE BY THE CONTRACTOR.
- 4. CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS FOR PRIVATE PROPERTIES ADJACENT TO CONSTRUCTION AREAS THROUGHOUT CONSTRUCTION PERIOD.

## RESPONSE TO PERMIT COMMENTS/BID SET 03-22-2024 **AS SHOWN** Checked: DESIGN DESIGN CITY APPR. DATE | APPR. | DATE C20211516

OTHER FEATURES AS INDICATED ON PLANS.

STRUCTURES WITHIN LIMIT OF WORK

RECORD DRAWINGS

2. CONTRACTOR TO COORDINATE WORK WITH GOVERNING AGENCIES FOR EXISTING FIRE AND DOMESTIC LINES AND

1. THE CONTRACTOR SHALL KEEP ACCURATE RECORD OF FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK ON A

COPY OF FINAL APPROVED CONSTRUCTION DOCUMENTS. NOTE THE LOCATIONS AND ELEVATIONS OF EXISTING

IMPROVEMENTS ENCOUNTERED THAT VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS. THE CONTRACTOR SHALL PROVIDE COPY OF RECORD INFORMATION TO OWNER AT COMPLETION OF PROJECT AND TO CITY PUBLIC WORKS.

295.88 LG × 296.55 296.03 LG × 296.35 PROTECT EX. ELEC BOX AND -● 18"TREE LIGHT FIXTURE, CONTRACTOR TO ELEC LINES RAISE TO GRADE IF NECESSARY (TC 296.9±) 298.4±) SEE ALL-INCLUSIVE PLAYGROUND SHEETS C3.1 & C3.11 FOR OTHER GRADING IMPROVEMENTS 295.09 D8 295.0 • 14"TREE 294.80 LG

**NOTES** 

**LEGEND** 

**BOUNDARY LINE** 

EASEMENT LINE

LIMIT OF WORK

ADA IMPROVEMENTS

PEDESTRIAN CONCRETE

PER COC STD NO. 1-19

ELEVATION (PROPOSED)

SPOT ELEVATION (PROPOSED)

SPOT ELEVATION (EXISTING)

**KEYNOTES** 

DOMES, AND GROOVE DETAILS.

PROVIDED FOR CONSTRUCTION.

4) DURING FUTURE WORK.

→ INSTALL CURB & GUTTER (TYPE A2-6) PER COC

INSTALL DOWEL CONNECTIONS AT (N)SIDEWALK TO

INSTALL CURB RAMP PER DETAIL 1, THIS SHEET,

AND PER CBC 11B-406.3 and 11B-705. SEE COC STD NO. 1-24 AND 1-26 FOR NOTES, TRUNCATED

DRINKING FOUNTAIN TO BE REPLACED BY CITY

5) INFORMATION. DEFERRED SUBMITTAL WILL BE

PREFABRICATED RESTROOM BLDG. SEE C7.10 FOR

REPAIR PARKING STRIPING DAMAGED DUE TO SITE

(E)SIDEWALK CONFORM PER COC STD NO. 1-23,

**ELEVATION (EXISTING)** 

SLOPE TO GRADE

(HARDSCAPE)

(TC XXX.XX±)

(FL XXX.XX±)

 $\times$  100.00

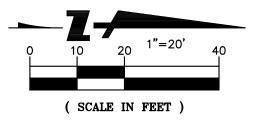
X.X%  $\overline{\phantom{a}}$ 

 $\times (100.00\pm)$ 

\* 298.74 × 205

× 298.25

- THE PROJECT PROPOSES TO REPLACE 4,900 SF OF SIDEWALK IN JOLLYMAN PARK DUE TO ADA DEFICIENCES.
- COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION AND SITE LIGHTING PRIOR TO PLACEMENT OF ANY FLATWORK. SEE SITE LANDSCAPING DRAWINGS.
- ACCESSIBLE PATH OF TRAVEL SHALL BE PROVIDED ON ALL WALKWAYS, TO PUBLIC SIDEWALK AND ACCESSIBLE PARKING - ACCESSIBLE PATH SLOPE REQUIREMENTS: 5% MAXIMUM LONGITUDINAL SLOPE, 2% MAXIMUM CROSS-SLOPE.
- FOR GRADING RECOMMENDATIONS CONTRACTOR SHALL REFER TO PROJECT "GEOTECHNICAL EVALUATION JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND" PREPARED BY NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS DATED FEBRUARY 18, 2022.
- DO NOT ADJUST GRADES ON THIS PLAN WITHOUT APPROVAL OF THE ENGINEER/ARCHITECT.
- ENGINEER AND PUBLIC WORKS INSPECTOR FOR INSTALLATION AND INSPECTION OF ON-SITE GRADING & DRAINAGE FACILITIES. A LETTER FROM THE CIVIL ENGINEER WILL BE REQUIRED TO CERTIFY THAT GRADING AND DRAINAGE SYSTEMS ARE INSTALLED PER DESIGN PRIOR TO PROJECT ACCEPTANCE.
- IF THE PROJECT DAMAGES THE CITY'S SIDEWALK OR CURB AND GUTTER AS RESULT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE AND REPLACE ANY BROKEN CONCRETE (EXISTING OR DAMAGES BY THE PROJECT) AS



IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND

AT JOLLYMAN PARK

STATEMENT OF RESPONSIBILITY

FOR CITY OF CUPERTINO USE **CITY OF** ADA IMPROVEMENT PLAN VOICE MAIL:

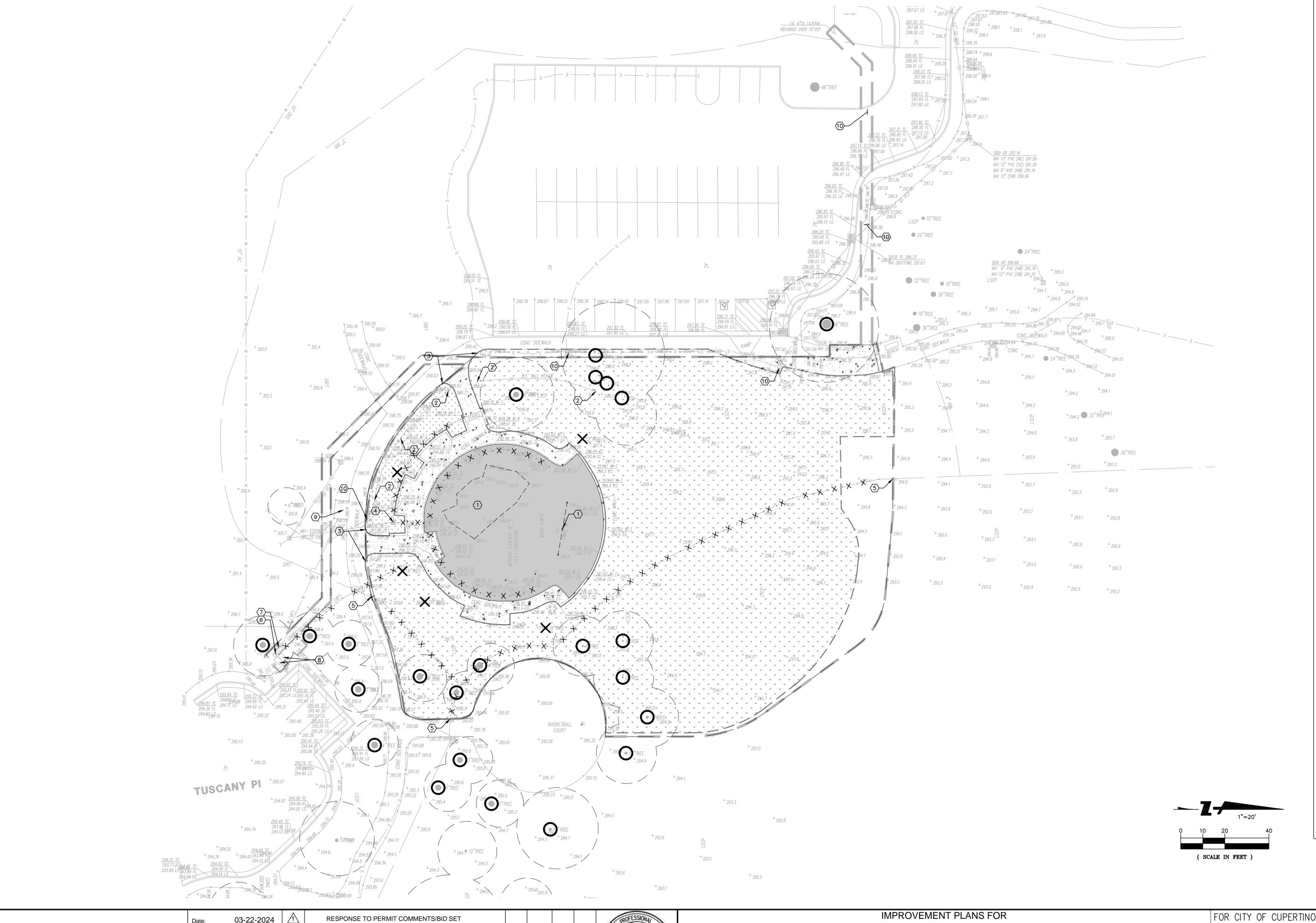
1. CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE

REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF

CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO

APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CITY, ITS AGENTS, OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED.

IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE



LEGEND

CLEAR AND GRUB EXISTING
LANDSCAPE AREA

MATERIALS

TREES.

REMOVE EXISTING UTILITY LINE

CLEAR AND GRUB EXISTING
LANDSCAPE AREA
REMOVE CONCRETE AND BASE

REMOVE EXISTING WOOD FIBER SURFACE

TRENCH FOR PROPOSED UTILITIES,
SEE UTILITY PLANS, SHEETS C4.10
& C4.11 FOR MORE INFORMATION

TREE TO BE PRESERVED.
COORDINATE WITH ARBORIST,
LANDSCAPE ARCHITECT, CITY, AND
ADJACENT PROPERTY OWNER,
PROVIDE TREE PROTECTION FENCE

PER ARBORIST REPORT.

TREE TO BE REMOVED INCLUDING ALL ROOT MASSES. COORDINATE WITH LANDSCAPE ARCHITECT AND

ARBORIST PRIOR TO REMOVAL OF

O

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## **KEYNOTE**

- (1) REMOVE EXISTING PLAY STRUCTURE
- 2 REMOVE EXISTING FENCE
- 3 PROTECT EXISTING SITE CONCRETE
- 4 PROTECT EXISTING STORM DRAIN DROP INLET
- (5) CAP EXISTING IRRIGATION LINE
- REMOVE INTERCONNECTION BETWEEN THE DOMESTIC AND IRRIGATION LINES TO SEPARATE THE SYSTEMS.
- 7 REMOVE EXISTING BACKFLOW PREVENTER
- 8 PROTECT EXISTING WATER METER
- PROTECT EXISTING DRINKING FOUNTAIN
- PROTECT EX. ELEC BOX AND LIGHT FIXTURE. CONTRACTOR TO RAISE TO GRADE IF NECESSARY
- CONTRACTOR TO REPLACE ANY DAMAGED/REMOVED
  ASPHALT, SIDEWALK AND CURB DURING UTILITY TRENCHING

## NOTES

- . THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO DETERMINE THE EXACT EXTENT OF ALL SITE DEMOLITION ITEMS.
- 2. CONTRACTOR TO PROVIDE AN APPROXIMATE NEARBY AREA FOR MOBILIZATION AND EQUIPMENT STORAGE TO THE CITY AND JOLLYMAN STAFF PRIOR TO PRE—CONSTRUCTION
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL UNDERGROUND CONDITIONS PRIOR TO COMMENCEMENT
- 4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, STANDARD DETAILS AND SUBSEQUENT ADDENDA AS ADOPTED BY THE CITY COUNCIL, WHERE APPLICABLE AND ALSO THE SPECIAL PROVISIONS FOR THIS PROJECT.
- 5. THE CONTRACTOR SHALL PERFORM ALL CLEARING,
  DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE
  PREPARATIONS NECESSARY FOR THE PROPER EXECUTION
  OF ALL WORK SHOWN ON THESE PLANS AND AS
  DESCRIBED IN THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION ON THE PROJECT (U.S.A. AT 811). THE CONTRACTOR SHALL REMOVE ALL USA MARKINGS, AS SOON AS THEY ARE NO LONGER NEEDED, BY USING A HIGH PRESSURE WATER METHOD ONLY. THE CITY ENCOURAGES THE USE OF CHALK PAINT WHENEVER POSSIBLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING/REPLACING AT THE CONTRACTORS OWN EXPENSE, ANY STRUCTURES, FENCES, WALLS, OR PLANT LIFE DAMAGED OR DESTROYED BY THE CONTRACTORS OPERATION. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES OCCURRING BY THEIR OPERATION, ON ADJACENT PROPERTIES AND ANYWHERE OUTSIDE THE CONTRACT LIMIT LINES. THE DAMAGED ITEMS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- . KEEP ALL PLANTING, PAVING AND CURB AREAS FREE FROM WEEDS, DEBRIS AND TRASH DURING THE ENTIRE DURATION OF THE CONTRACT. WEED CONTROL HERBICIDES SHALL BE APPLIED IF THE ENGINEER DEEMS IT NECESSARY. TYPE OF HERBICIDE TO BE USED AND METHOD OF APPLICATION SHALL BE APPROVED BY THE ENGINEER.
- . CARE SHOULD BE TAKEN WHERE EXISTING TREES TO REMAIN. GRADES WITHIN THE DRIP LINE OF THE TREE SHALL NOT BE CHANGED UNLESS OTHERWISE SPECIFIED ON THE PLANS. ANY COMPACTION OF THE AREA WITHIN THE DRIP LINE SHALL BE AVOIDED.
- 10. ALL ITEMS INDICATED TO BE REMOVED SHALL BE DISPOSED OF FROM THE PROJECT SITE, EXCEPT ITEMS INDICATED TO BE SALVAGED.

SHEET 6

11. FOR ANY ON-SITE AND OFF-SITE TREES TO REMAIN, THE CONTRACTOR SHALL PROTECT EXISTING TREES AND TREE ROOTS FROM ANY DAMAGE. TREE PROTECTION SHALL BE INSTALLED PER CITY STANDARD DETAIL 6-4.



 Date:
 03-22-2024
 AS SHOWN
 RESPONSE TO PERMIT COMMENTS/BID SET
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ALL-INCLUSIVE PLAYGROUND

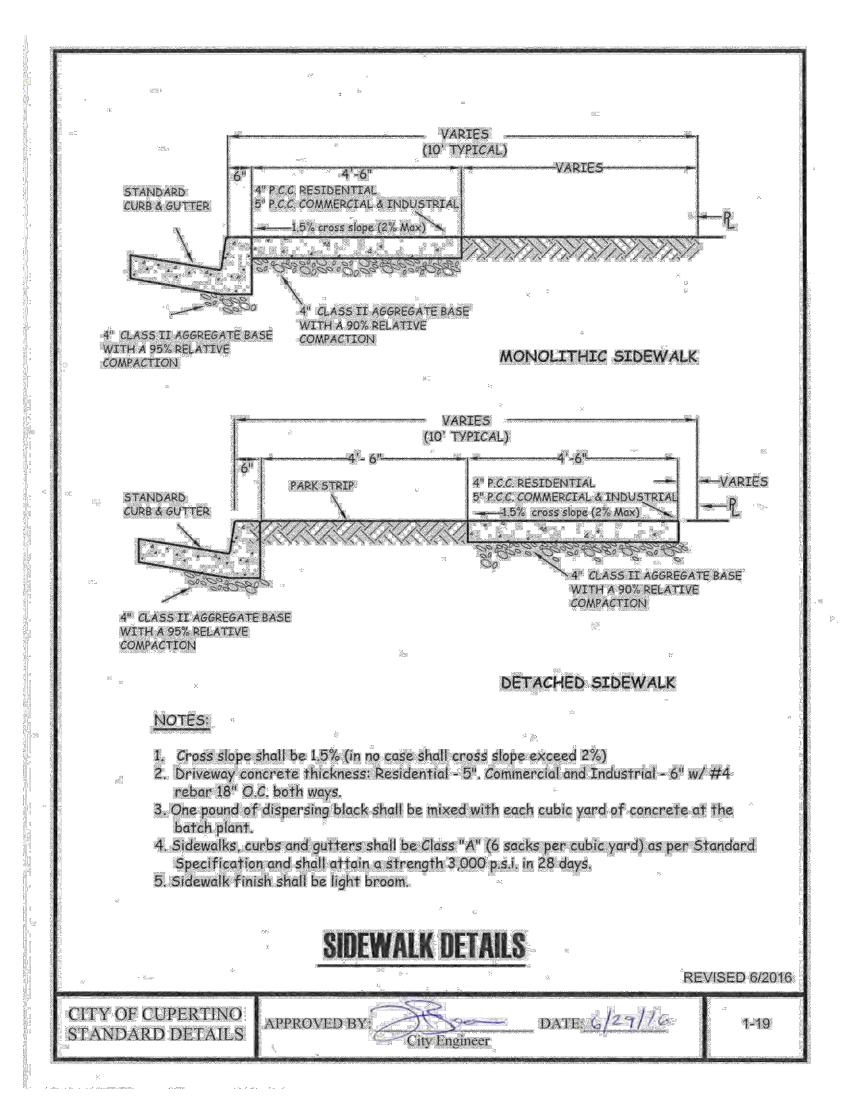
AT JOLLYMAN PARK

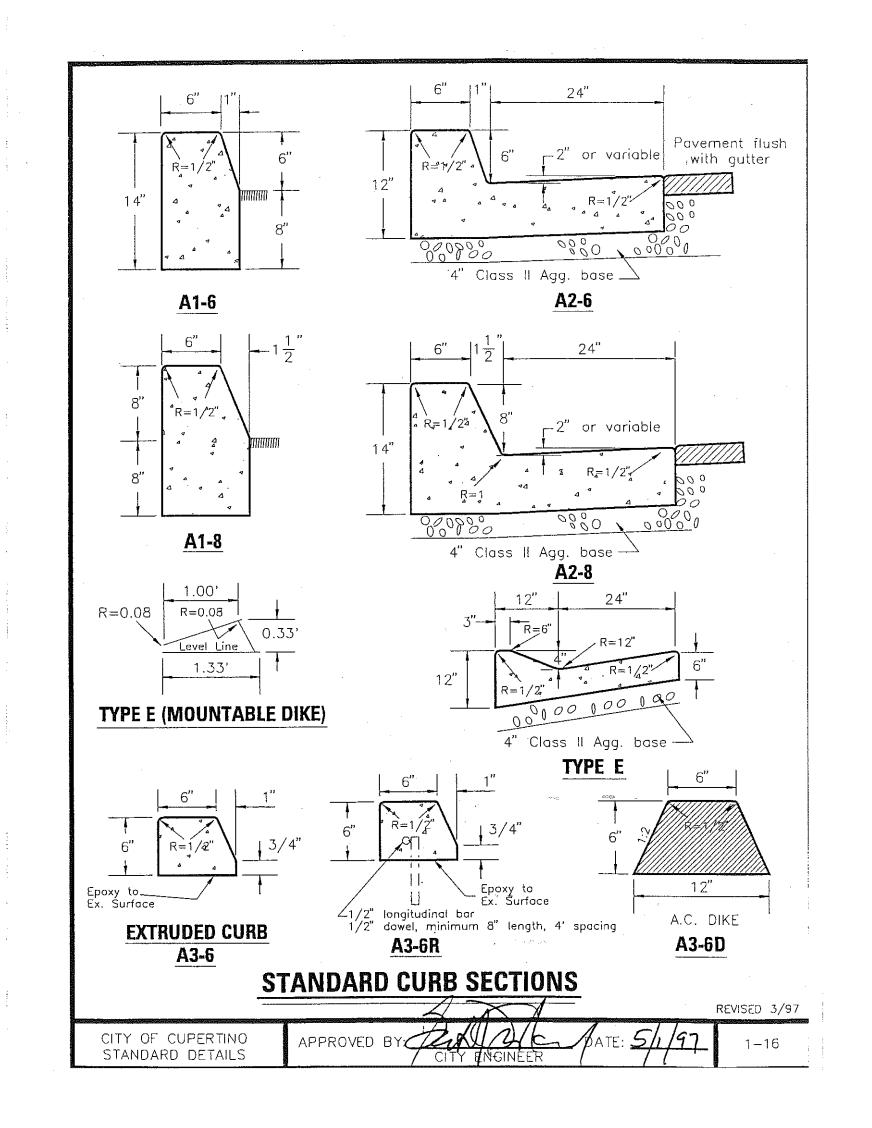
FOR CITY OF CUPERTINO USE
PROJECT # \_\_\_\_\_

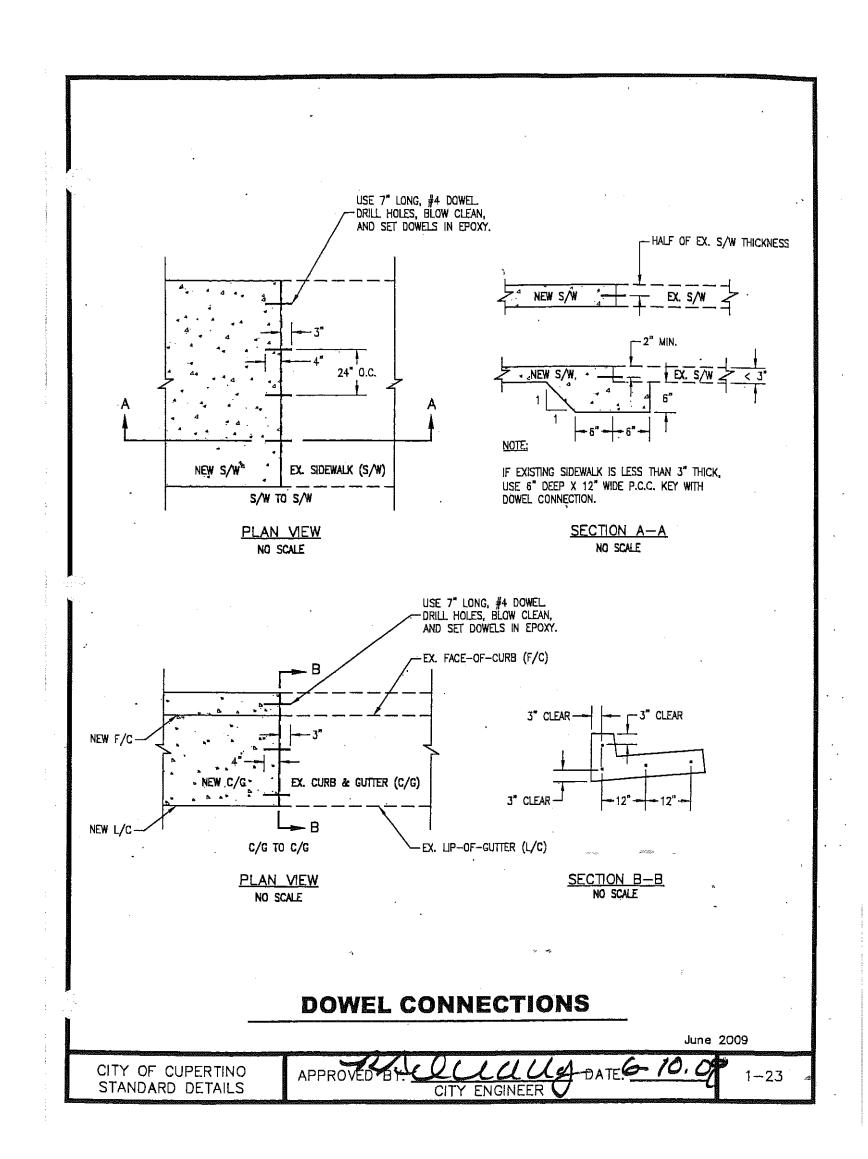
PUBLIC WORKS INSPECTOR:

C1.10
DEMOLITION PLAN

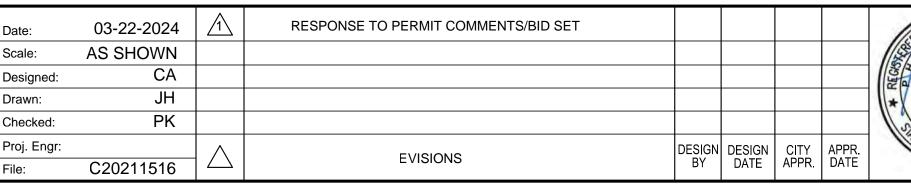
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ROFESSIONAL CHEST OF CALIFORNIA C

ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE
PROJECT # CUPERTINO

PUBLIC WORKS
INSPECTOR:

C2.0
ADA CONSTRUCTION DETAILS

VOICE MAIL:

SHEET 7

NOVEMBER 2023

FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLU INDOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WITH THE ENGINEER.

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## LEGEND

LIMIT OF WORK

STORM DRAIN AREA DRAIN

FIBER ROLL; SEE DETAIL 2, SHEET C2.11

TEMPORARY 6' CONSTRUCTION FENCE

STORM DRAIN CLEANOUT

STORM DRAIN CATCH BASIN

STORM DRAIN DROP INLET

STORM DRAIN DROP INLET

STORM DRAIN DROP INLET

STORM DRAIN JUNCTION BOX

SEE DETAIL 5, SHEET C2.11

BIORETENTION AREA

## **NOTES**

#### EROSION CONTROL NOTES:

- 1. SHEET C2.10 IS INTENDED TO BE USED FOR EROSION CONTROL ONLY.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ANY SEDIMENT FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED WITH ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURE MAINTENANCE THROUGHOUT THE DURATION OF THE PROJECT.
- 4. THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- 5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE YEAR ROUND OR UNTIL VEGETATION IS ESTABLISHED ON LANDSCAPED SURFACES.
- B. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- . ALL EROSION CONTROL FACILITIES MUST BE MONITORED AS REQUIRED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (CRWQCB). ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- BORROW AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES (TARPS, FIBER ROLLS, SILT FENCES, ETC.) TO ENSURE SILT DOES NOT LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.
- 9. ALL TRUCK TIRES SHALL BE CLEANED PRIOR TO EXITING THE PROPERTY.
- 10. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES AS REQUIRED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (CRWQCB).
- 11. DURING PERIODS WHEN STORMS ARE FORECAST:
- a. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.
- b. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.
- c. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH FIBER ROLLS, SILT FENCE, OR OTHER RUNOFF CONTROLS.
- d. USE INLET CONTROLS (E.G. FILTER MAT) FOR STORM DRAINS ADJACENT TO STOCKPILED SOIL.
   e. THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
- 12. DURING PERIODS WHEN STORMS ARE NOT FORECAST —

  G. PREVENT STOCKPILED MATERIAL FROM ENTERING THE
- a. PREVENT STOCKPILED MATERIAL FROM ENTERING THE STORM DRAIN SYSTEM.b. THOROUGHLY REMOVE LOOSE SOIL VIA SWEEPING FOLLOWING REMOVAL OF DIRT.
- 13. THIS EROSION CONTROL PLAN IS FOR CONSTRUCTION BETWEEN OCTOBER 1 AND APRIL 15. OPEN SPACE AREAS ARE TO BE PLANTED BY SEPTEMBER 15. IF THESE CONDITIONS ARE NOT MET, CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN TO THE PROJECT ENGINEER THAT REFLECTS CURRENT SITE CONDITIONS FOR REVIEW AND APPROVAL.
- 14. EROSION CONTROL MEASURES SHOWN ON THIS PLAN SHALL BE MAINTAINED REPAIRED AND REPLACED AFTER EACH SIGNIFICANT RAINFALL OR AS DIRECTED BY THE OWNER AND/OR THE CALIFORNIA REGIONAL WATER CONTROL BOARD (CRWQCB).
- 15. ALL DRAINAGE INLETS WITHIN AND NEAR THE PROJECT SITE SHALL BE PROVIDED WITH SEDIMENT TRAPS OR SEDIMENT BARRIERS AS PER THIS PLAN.
- 16. SEDIMENT DAMS AND TRAPS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED FROM THESE DEVICES WHEN IT HAS ACCUMULATED TO THREE—QUARTER OF THE ORIGINAL STORAGE HEIGHT.
- 17. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE OWNER AND/OR THE CALIFORNIA REGIONAL WATER CONTROL BOARD (CRWQCB) BASED ON FIELD REVIEWS OF THE SITE.
- 18. DAMAGED EROSION CONTROL DEVICES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS SOON AS PRACTICAL AFTER THE DAMAGE OCCURS.
- 19. ALL EXPOSED DISTURBED SURFACES SHALL BE HYDROSEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 POUNDS PER 1000 SQUARE FEET, OR APPROVED EQUAL. SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH. HYDROSEEDED AREAS SHALL THEN BE COVERED WITH STRAW MULCH AND STABILIZED BY CRIMPING OR THE APPLICATION OF A LIQUID TACKIFIER.
- 20. DURING GRADING OPERATIONS THE SITE SHALL BE WATERED ON A DAILY BASIS TO MINIMIZE THE RELEASE OF DUST AND OTHER PARTICULATE MATTER.
- 21. EARTHWORK SHALL NOT BE PERFORMED DURING UNFAVORABLE CONDITIONS. AFTER INTERRUPTION OF WORK DUE TO HEAVY RAIN, THE ENGINEER SHALL APPROVE EARTHWORK BEFORE RESUMPTION OF EARTHMOVING OPERATIONS.
- 22. CONTRACTOR SHALL BE RESPONSIBLE TO PUT IN PLACE THE NECESSARY MEANS AND EXECUTE PROPER METHODS TO PROTECT EARTHWORK AGAINST UNFAVORABLE WEATHER CONDITIONS. CONTRACTOR SHALL NOT BE PAID FOR ANY DELAY OR ADDITIONAL WORK TO REMEDY PREVIOUS EARTHWORK RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO PROTECT THE
- 24. THIS PROJECT SHALL COMPLY WITH APPLICABLE PROVISIONS IN THE STATE OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES, ORDER NO. 2009—DWQ.

EROSION CONTROL PLAN



 Date:
 03-22-2024
 AS SHOWN
 RESPONSE TO PERMIT COMMENTS/BID SET
 Scale:
 AS SHOWN
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ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE
PROJECT # \_\_\_\_\_ CITY OF
CUPERTINO

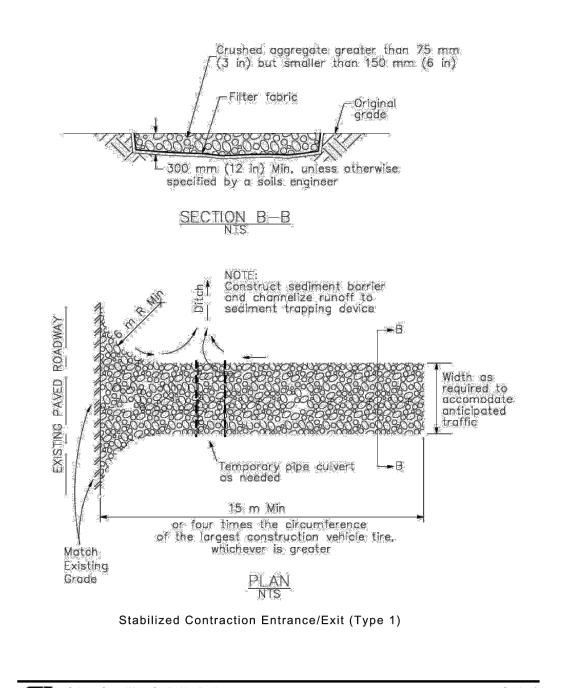
PUBLIC WORKS
INSPECTOR:

C2.10
EROSION CONTROL PLAN

VOICE MAIL:

SHEET 8



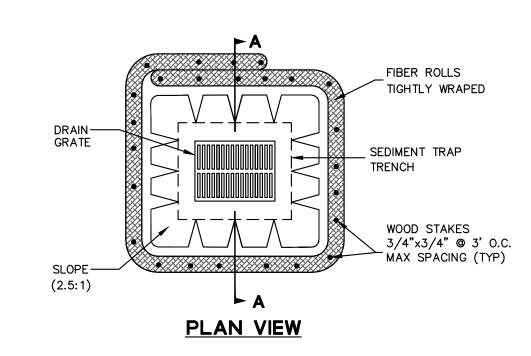


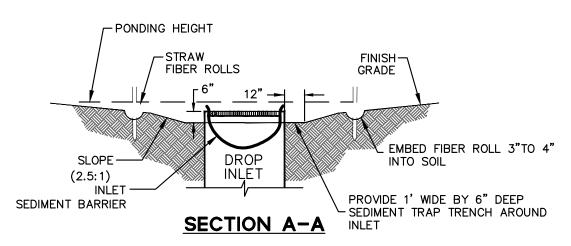




## STABILIZED CONSTRUCTION ENTRANCE/EXIT

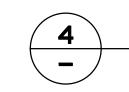
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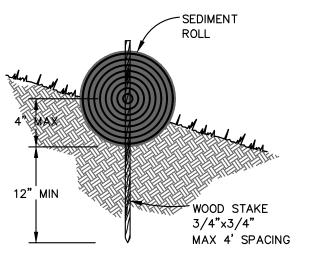
1. PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THE SHEET. FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND WITH PLASTIC NETTING. THEY ARE APPROXIMATELY 8" DIAMETER AND

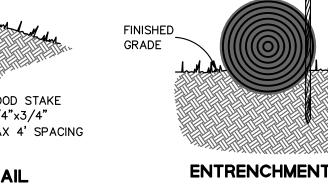
2. IF FIBER ROLLS CANNOT BE STAKED DOWN, WEIGH DOWN THE FIBER ROLLS WITH GRAVEL BAGS.



**INLET PROTECTION** 

SCALE: NTS





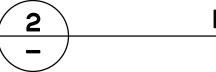
**SEDIMENT** 

**ENTRENCHMENT DETAIL** IN SLOPE AREA

ENTRENCHMENT DETAIL IN FLAT AREA

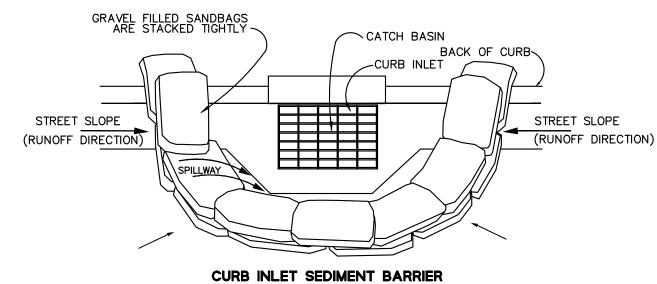
- 1. USE REED & GRAHAM, INC. GEOSYNTHETICS STRAW WATTLE FIBER ROLL (COMES IN 9" X 25' ROLLS) OR APPROVED EQUIVALENT.
- 2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" - 5" DEEP, DUG ON
- 3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET.
- 4. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY. IN PAVED AREAS, USE GRAVEL BAGS TO SECURE FIBER ROLLS IN PLACE OF WOOD STAKE.

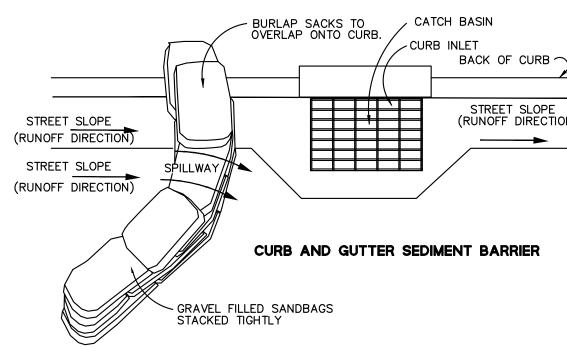
5. IF FIBER ROLLS CANNOT BE STAKED DOWN, WEIGH DOWN THE FIBER ROLLS WITH GRAVEL BAGS.



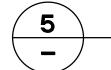
## FIBER ROLL

SCALE: NTS





- 4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED

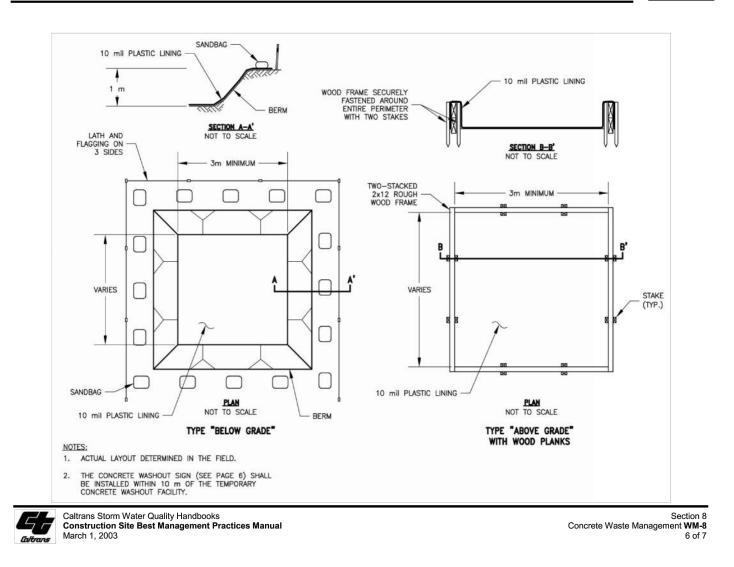


**CURB INLET PROTECTION** 

SCALE: NTS

## **Concrete Waste Management**

WM-8



**CONCRETE WASTE MANAGEMENT** 

SCALE: NTS

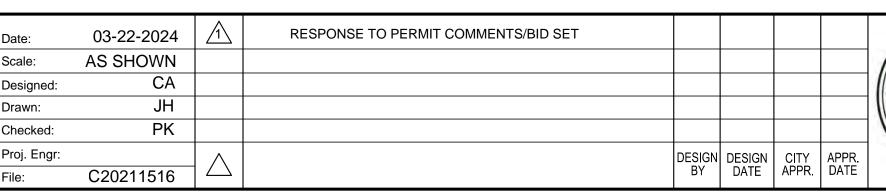
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.

FROM THE TRAVELED WAY IMMEDIATELY.

## IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO             |
|-------------------------------------|----------------------------------|
| PUBLIC WORKS<br>INSPECTOR:          | C2.11<br>EROSION CONTROL DETAILS |
| VOICE MAIL:                         | SHEET 0                          |





FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLU FINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR MANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WOTHE OWNER OR THE ENGINEER.

n the Santa Clara Valley, storm drains flow lirectly 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

Proper management of construction sites reduces pollution significantly.

This sheet summarizes the "Best Management Practices" (BMPs) for storm water pollution

#### ORDINANCE OF THE CITY OF CUPERTINO FOR STORM WATER POLLUTION PREVENTION & WATERCOURSE PROTECTION: Chapter 9.18

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#### 9.18.070 Accidental Discharge

All persons shall notify the Director of Public Works immediately upon accidentally discharging pollutants of concern to enable countermeasures to be taken by the City to minimize damage to storm drains and the receiving waters. Initial notification shall be followed, within five (5) business days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrences. Such notification will not relieve persons of liability for violations of this chapter or for any fines imposed on the City on account thereof under Section 13350 of the California Water Code, or for violation of Section 5650 of the California Fish and Wildlife Code, or any other applicable provisions of State or Federal laws.

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Report spills to 911

408-299-7300

## General Construction and Site Supervision

#### Storm Drain Pollution from Construction Activities

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#### General Principles

Leep an orderly site and ensure good nousekeeping 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 ex cavation and grading activities for dry weather periods. To reduce so I erosion, plant temporary vegetation or place

other erosion controls before rain begins. Use

- the Erosion and Sediment Control Manual. vailable from the Regional Water Quality Control Board, as a reference. Control the amount of runoff crossing your site (especially during excavation!) by using demis or temporary or permanent drainage ditches to divert water flow around the site Reduce stormwater run off velocities by
- constructing temporary check dams or berny where appropriate Train your employees and subcontractors he city can provide brochure's 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 Clear Bay, a construction best management ractices guide available at our Building Dept. counter.

Designate one area of the site for auto parking. vehicle refueling, and routine equipment maintenance. The designated are a should be well away from streams or storm drain inlets, bermed it necessary Make major repairs off site

Good Housekeeping Practices

☐ 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, swee and remove materials from surfaces that drain to storm drains, creeks, or channels. Contain all litter, food wrappers, bottles and

cans - Place lidded trash and recycling bins around the site. Clean up leaks, drips and other spills immediately so they do not contaminate soil or Use dry cleanup methods whenever possible. I

you must use water, use just enough to keep the ☐ Cover and maintain dumpsters Place dumpsters under roofs or cover with tarps or

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,

plastic sheeting secured around the outside of the

#### Materials/Waste Handling ☐ Practice Source Reduction -- mnimize waste hen you order materials. Estimate carefully Recycle excess materials, whenever possible such as concrete, asphalt, scrap metal, solvents,

antifreeze, batteries, and tires.

www.reduceweste.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 the in the street or near a creek or stream bed.

degreasers, cleared vegetation, paper, rock, and

vehicle maintenance materials such as used oil

 In addition to local grading and building permits, you will need to obtain coverage under the State's General Construction Activity Stormwater Permit in your construction site's disturbed area totals 5 acres or more. Information on the General Perm can be obtained from the Regional Water Quality Control Board (This criteria will change to one

## Landscaping, Gardening, and Pool

## Maintenance

#### Lands caping/Garden Maintenance discharged to storm drains. These chemicals are toxic to aquatic life. 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, gravelfilled bags, straw wattles, or other sediment
- 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
- Use pesticides sparingly, according to instructions on the labe. Rinse empty containers, and use rinsewater as product Dispose of rinsed, empty containers in the trash Dispose of unused pesticides as

hazardous waste

- In Cuperlino residents with curbside recycling can collect lawn, garden and tree trimmings i yardwaste toters. Yardwaste will be collected and composted by the city's contractors Residents are encouraged to compost yardwaste on-site themselves. Or take yard waste to a landfill where it will be
- Landscape contractors should take clippings and pruning waste to a landfill that composts yard waste (BFI's Newby Island and Zanker Rd. landfill are the nearest)
- Do not blow or rake leaves into.

#### Earth-Moving Storm Drain Pollution from Landscaping and **Activities** Swimming Pool Maintenance Many landscaping activities expose soils and

increase the likelihood that earth and garden.

irrigation or when it rains.

Draining pools or spas

chemicals will run off into the storm drains during

Swimming pool water containing chlorine and

copper-based algaecides should never be

Pool/Fountain/Spa Maintenance

When it's time to drain a pool, spa, or fountain

District before you start for further quicance or

flow rate restrictions, backflow prevention, and

handling special cleaning waste (such as acid

le vel s typically possible through a garden hose

Never discharge pool or spa water to a

sanitary sewer cleanout.

onto a landscaped area.

Filter Cleaning

street or storm drain; discharge to a

If possible, when emptying a pool or spa, let

Do not use copper-based algaecides.

Control aloae with chlorine or other

alternatives, such as sodium bromide,

Never clean a filter in the street or near a

diatomaceous earth filters onto a dirt area.

and spade filter residue into soil. Dispose of

spent diatomaceous earth in the garbage

discharging filter backwash or rinsewater to

storm drain. Rinse cartridge and

If there is no suitable dirt area, call

the sanitary sewer.

Cupertino Sanitary for instructions on

chlorine dissipate for a few days and then

recycle/reuse water by draining it gradually

Higher flow rates may be prohibited by local

wash! Discharce flows should be kep; to the low

please be sure to call the Cupertino Sanitary

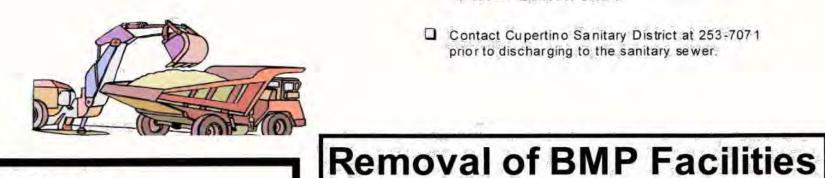
#### Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm crains when handled improperly. Sediments in runoff can dog storm drains, smother aquatic life, and cestroy 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

Over stockpiles and excavated soil with secured tarps or plastic sheeting.



## Dewatering Operations

#### Storm Drain Pollution From Dewatering Activities

Be sure to call your city's storm water inspector at 408-472-9907 before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, and sediment trap may be required. Reuse water for dust control, irrigation or another on-site purpose to the greatest extent

#### Check for Sediment or Toxic Pollutants

- Check for odors, discoloration, or an oily sheen on ground water.
- ☐ Ask your city inspector whether the groundwater must be tested by a certified
- Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain OR you may be required to discharge to the sanitary sewer or collect and haul the water off-site for treatment and disposal at an appropriate treatment facility.
- When discharging to a storm drain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate.
- ☐ Contact Cupertino Sanitary District at 253-7071 prior to discharging to the sanitary sewer.

The Project Contractor is responsible

located within the Public Right of Way

for removal of all BMP Facilities

upon project final inspection.

## Heavy Equipment Operation

#### Storm water Pollution from Heavy Equipment or

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 infets for auto vehicle and equipment maintenance. Contain the area with berms, sand bags, or other
- Maintain all vehicles and heavy equipment In spect frequently for and repair leaks
- Perform major maintenance, repair jobs and vehicle and equipment washing off-site, where clean up is easier
- If you must crain and replace motoroil radiator coolant or other fluids on site, use drip pans of drop cloths to catch drips and spills. Collect all spent fluids store in separate containers and properly dispose as hazardous waste (recycle
- Do not use diesel oil to lubricate equipment parts or clean equipment. Use only water for any onsite cleaning
- O Cover exposed fifth wheel hitches and other

#### only or greasy equipment during rain events Spill Cleanup

#### Clean up spills im mediately

- Neverhose down "dirty" pavement or im permeable surfaces where fluids have spilled Use dry cleanup methods (absorbent materials cat litter and/or rags) whenever possible and properly dispose of absorben
- Sweep up spilled dry materials immediately Never attempt to wash them away" with water
- Use as little water as possible for dust control Ensure water used doesn't leave sift or
- ☐ Clean up spills on dirtareas by digging up and
- 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

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.

## 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

## 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 doths may be

disposed of as garbage

### Paint Removal

- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue, and chips and dust from marine paints, or paints containing lead, mercury or tributyl tin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct washwater onto a dirt area and spade into soil. Or, check with Cupertino Sanitary District to find out if you can mop or vacuum the washwater and dispose of it in a sanitary sewer drain. Sampling of the washwater may be required.
- ☐ Washwater from painted buildings constructed before 1978 can contain high amounts of Lead, even if paint chips are not present. Before you begin stripping paint or cleaning pre-1978 building exteriors with water under high pressure, test paint for lead by taking paint scrapings to a local laboratory. (See Yellow Pages for a state-certified
- paint tests positive for lead, block storm to the sanitary sewer, or if you must send it offsite for disposal as hazardous waste.

- Dispose of unwanted liquid paint, thinners, solvents glues, and deaning fluids as hazardous waste (call the Small Business Hazardous Waste Prgm: 299-7300).
- If there is loose paint on the building, or if the drains Check with Cupertino Sanitary District to determine whether you may discharge water

## Paint Disposal, Return or Donation

may be able to be returned. Check with the vendor regarding its "buy-back" policy.) ☐ Donate excess paint (call 299-7300 to donate.)

Or Return to supplier (Unopened cans of paint

# and

Roadwork

## General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments Schedule excavation and grading work during
- dry weather. Check for and repair leaking equipment. Perform major equipment repairs at designated areas in your maintenance yard where cleanup is easier. Avoid performing equipment repairs at construction sites.
- When refueling or when vehicle /e quipment maintenance must be done on site, designate a location away from storm drains and creeks.
- Do not use diesel oil to lubricate equipment parts or clean equipment. Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly. (www.recyclestuff.com for list of recycling

### Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt
- 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

## Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for a sphalt, 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
- 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 exposedaggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or
- Over 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" m ethods (with absorbent materials and/or

rags), ordig up, remove, and properly dispose

☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???

of contaminated soil.

Avoid over-application by water trucks for dust

## 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, causes 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 chutes onto 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,
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers

## **During Construction**

- Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the drive way or into the street or storm
- Protect applications of fresh concrete and mortar from rainfall and runoff until the ☐ 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 catchmen created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms Make sure run off 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 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.



## **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.





**UPDATED SEPTEMBER 20** 

CITY OF CUPERTINO DEPARTMENT OF PUBLIC WORKS

SHEET

CITY OF **CUPERTINO** 

FOR CITY OF CUPERTINO USE

**BKF ENGINEERS** 1730 N. FIRST STREET SUITE 600 SAN JOSE, CA 95112 (408) 467-9100

**AS SHOWN** Scale: CA Designed: JH Drawn: PK Checked: Proj. Engr: C20211516

DIRECTOR OF PUBLIC WORKS

RESPONSE TO PERMIT COMMENTS/BID SET 03-22-2024 'DESIGN| DESIGN | CITY | APPR.



# CONSTRUCTION BEST MANAGEMENT PRACTICES

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

IMPROVEMENT PLANS FOR

VOICE MAIL:

BEST MANAGEMENT PRACTICES SHEET 10



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## Maintenance Lands caping/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, gravelfilled bags, straw wattles, or other sediment
- 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 Use pesticides sparingly, according to
- instructions on the labe. Rinse empty containers, and use rinsewater as product Dispose of rinsed, empty containers in the trash Dispose of unused pesticides as hazardous waste In Cuperlino residents with curbside recycling
- can collect lawn, garden and tree trimmings i yardwaste toters. Yardwaste will be collected and composted by the city's contractors Residents are encouraged to compost yardwaste on-site themselves. Or take yard waste to a landfill where it will be
- take clippings and pruning waste to a landfill that composts yard waste (BFI's Newby Island and Zanker Rd. landfill are the nearest)

Landscape contractors should

Do not blow or rake leaves into.

#### Earth-Moving Storm Drain Pollution from Landscaping and **Activities** Swimming Pool Maintenance Many landscaping activities expose soils and

increase the likelihood that earth and garden.

Pool/Fountain/Spa Maintenance

When it's time to drain a pool, spa, or fountain

District before you start for further quicance or

flow rate restrictions, backflow prevention, and

handling special cleaning waste (such as acid

le vel s typically possible through a garden hose

Never discharge pool or spa water to a

sanitary sewer cleanout.

onto a landscaped area.

Filter Cleaning

street or storm drain; discharge to a

If possible, when emptying a pool or spa, let

Do not use copper-based algaecides.

Control aloae with chlorine or other

alternatives, such as sodium bromide,

Never clean a filter in the street or near a

diatomaceous earth filters onto a dirt area.

and spade filter residue into soil. Dispose of

spent diatomaceous earth in the garbage

discharging filter backwash or rinsewater to

storm drain. Rinse cartridge and

If there is no suitable dirt area, call

the sanitary sewer.

Cupertino Sanitary for instructions on

chlorine dissipate for a few days and then

recycle/reuse water by draining it gradually

Higher flow rates may be prohibited by local

wash! Discharce flows should be kep; to the low

please be sure to call the Cupertino Sanitary

irrigation or when it rains.

Draining pools or spas

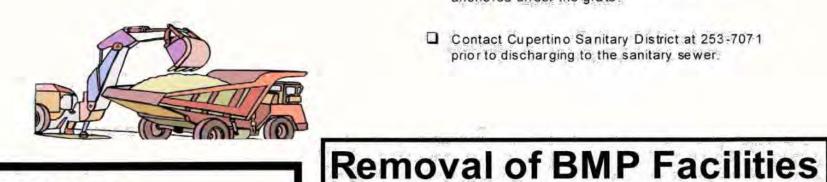
toxic to aquatic life.

#### chemicals will run off into the storm drains during Storm Drain Pollution Swimming pool water containing chlorine and from Earth-Moving Activities copper-based algaecides should never be discharged to storm drains. These chemicals are

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm crains when handled improperly. Sediments in runoff can dog storm drains, smother aquatic life, and cestroy 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
- Over stockpiles and excavated soil with secured tarps or plastic sheeting.



## Dewatering Operations

#### Storm Drain Pollution From Dewatering Activities

Be sure to call your city's storm water inspector at 408-472-9907 before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, and sediment trap may be required. Reuse water for dust control, irrigation or another on-site purpose to the greatest extent

#### Check for Sediment or Toxic Pollutants

- Check for odors, discoloration, or an oily sheen on ground water.
- ☐ Ask your city inspector whether the groundwater must be tested by a certified
- Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain OR you may be required to discharge to the sanitary sewer or collect and haul the water off-site for treatment and disposal at an appropriate treatment facility.
- When discharging to a storm drain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate.
- ☐ Contact Cupertino Sanitary District at 253-7071 prior to discharging to the sanitary sewer.

The Project Contractor is responsible

located within the Public Right of Way

for removal of all BMP Facilities

upon project final inspection.

## Heavy Equipment Operation

#### Storm water Pollution from Heavy Equipment or

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 infets for auto vehicle and equipment maintenance. Contain the area with berms, sand bags, or other
- Maintain all vehicles and heavy equipment In spect frequently for and repair leaks
- Perform major maintenance, repair jobs and vehicle and equipment washing off-site, where clean up is easier
- If you must crain and replace motoroil radiator coolant or other fluids on site, use drip pans of drop cloths to catch drips and spills. Collect all spent fluids store in separate containers and properly dispose as hazardous waste (recycle
- Do not use diesel oil to lubricate equipment parts or clean equipment. Use only water for any onsite cleaning
- O Cover exposed fifth wheel hitches and other

#### only or greasy equipment during rain events Spill Cleanup

#### Clean up spills im mediately

- Neverhose down "dirty" pavement or im permeable surfaces where fluids have spilled Use dry cleanup methods (absorbent materials cat litter and/or rags) whenever possible and properly dispose of absorben
- Sweep up spilled dry materials immediately Never attempt to wash them away" with water
- Use as little water as possible for dust control Ensure water used doesn't leave sift or
- ☐ Clean up spills on dirtareas by digging up and
- 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

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.

## 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

## 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 doths may be

disposed of as garbage

### Paint Removal

- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- Chemical paint stripping residue, and chips and dust from marine paints, or paints containing lead, mercury or tributyl tin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct washwater onto a dirt area and spade into soil. Or, check with Cupertino Sanitary District to find out if you can mop or vacuum the washwater and dispose of it in a sanitary sewer drain. Sampling of the washwater may be required.
- ☐ Washwater from painted buildings constructed before 1978 can contain high amounts of Lead, even if paint chips are not present. Before you begin stripping paint or cleaning pre-1978 building exteriors with water under high pressure, test paint for lead by taking paint scrapings to a local laboratory. (See Yellow Pages for a state-certified
- If there is loose paint on the building, or if the paint tests positive for lead, block storm drains Check with Cupertino Sanitary District to determine whether you may discharge water to the sanitary sewer, or if you must send it offsite for disposal as hazardous waste.

## Paint Disposal, Return or Donation

- Dispose of unwanted liquid paint, thinners, solvents glues, and deaning fluids as hazardous waste (call the Small Business Hazardous Waste Prgm: 299-7300).
- may be able to be returned. Check with the vendor regarding its "buy-back" policy.) ☐ Donate excess paint (call 299-7300 to donate.)

Or Return to supplier (Unopened cans of paint

# Roadwork and

- General Business Practices Develop and implement erosion/sediment control plans for roadway embankments
- Schedule excavation and grading work during dry weather. Check for and repair leaking equipment. Perform major equipment repairs at designated areas in your maintenance yard
- equipment repairs at construction sites. When refueling or when vehicle lequipment maintenance must be done on site, designate a location away from storm drains and creeks.

where cleanup is easier. Avoid performing

Do not use diesel oil to lubricate equipment parts or clean equipment. Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly.

(www.recyclestuff.com for list of recycling

### Asphalt/Concrete Removal

- Avoid creating excess dust when breaking asphalt
- 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

## Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for a sphalt, 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
- 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 exposedaggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or
- Over 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
- of contaminated soil. ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???

rags), ordig up, remove, and properly dispose

Avoid over-application by water trucks for dust

## 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, causes 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 chutes onto 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,
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers

CITY OF CUPERTINO

DEPARTMENT OF PUBLIC WORKS

## **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 of
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the drive way or into the street or storm
- Protect applications of fresh concrete and mortar from rainfall and runoff until the ☐ Wash down exposed aggregate concrete
- properly, or (3) be vacuumed from a catchmen created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms Make sure run off does not reach gutters or storm drains.

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

- When breaking up pavement, be sure to pick up all the pieces and dispose of properly Recycle large chunks of broken concrete. See
- 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.



## **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.





**UPDATED SEPTEMBER 20** 

SHEET

**CITY OF** 

FOR CITY OF CUPERTINO USE

IMPROVEMENT PLANS FOR

# AT JOLLYMAN PARK

# SUITE 600 (408) 467-9100

NOVEMBER 2023

**BKF ENGINEERS** 1730 N. FIRST STREET SAN JOSE, CA 95112

Scale: Drawn:

DIRECTOR OF PUBLIC WORKS

**AS SHOWN** CA Designed: JH PK Checked: Proj. Engr: 'DESIGN| DESIGN | CITY | APPR. **REVISIONS** C20211516

RESPONSE TO PERMIT COMMENTS/BID SET

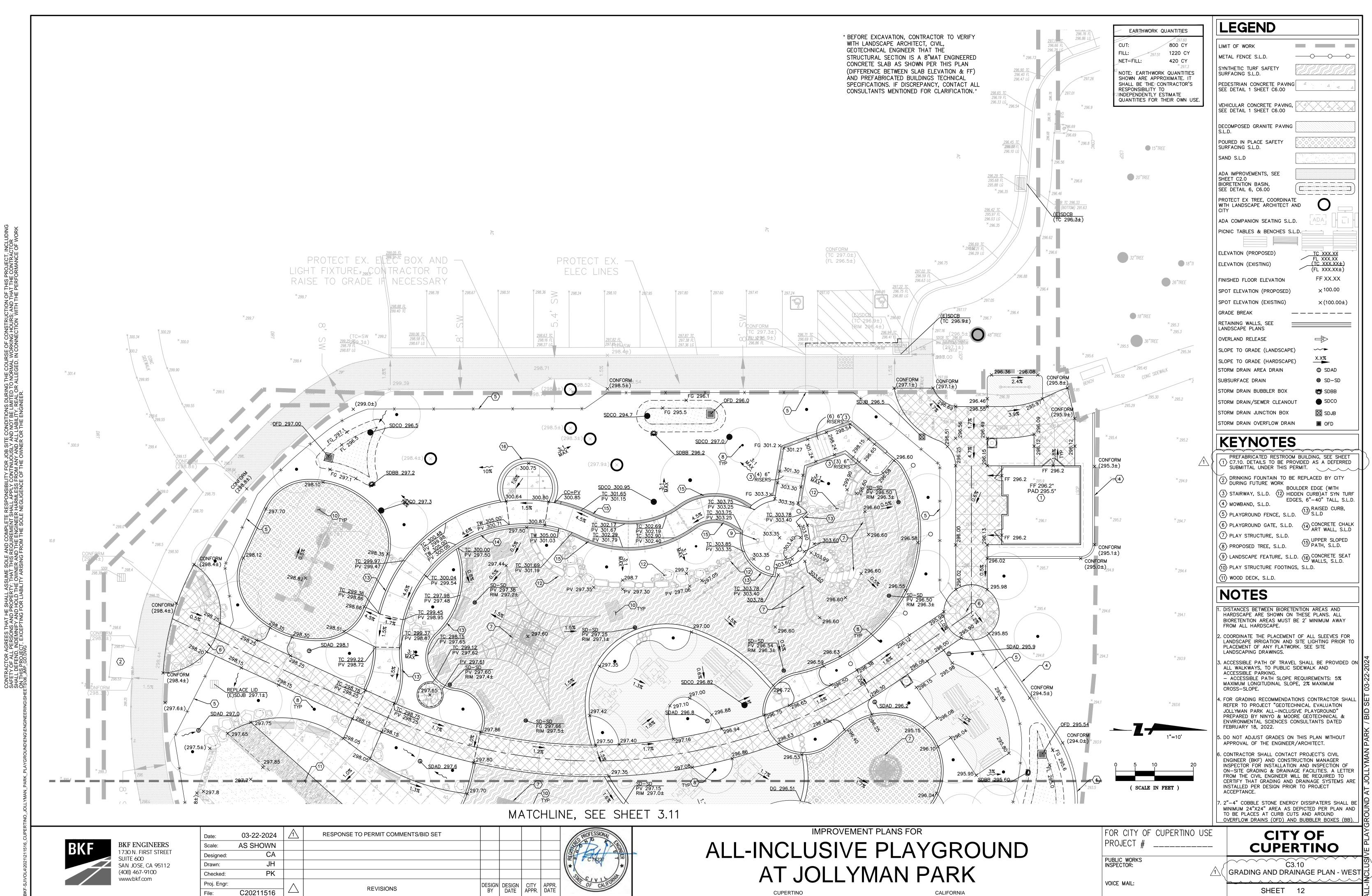
CONSTRUCTION BEST MANAGEMENT PRACTICES

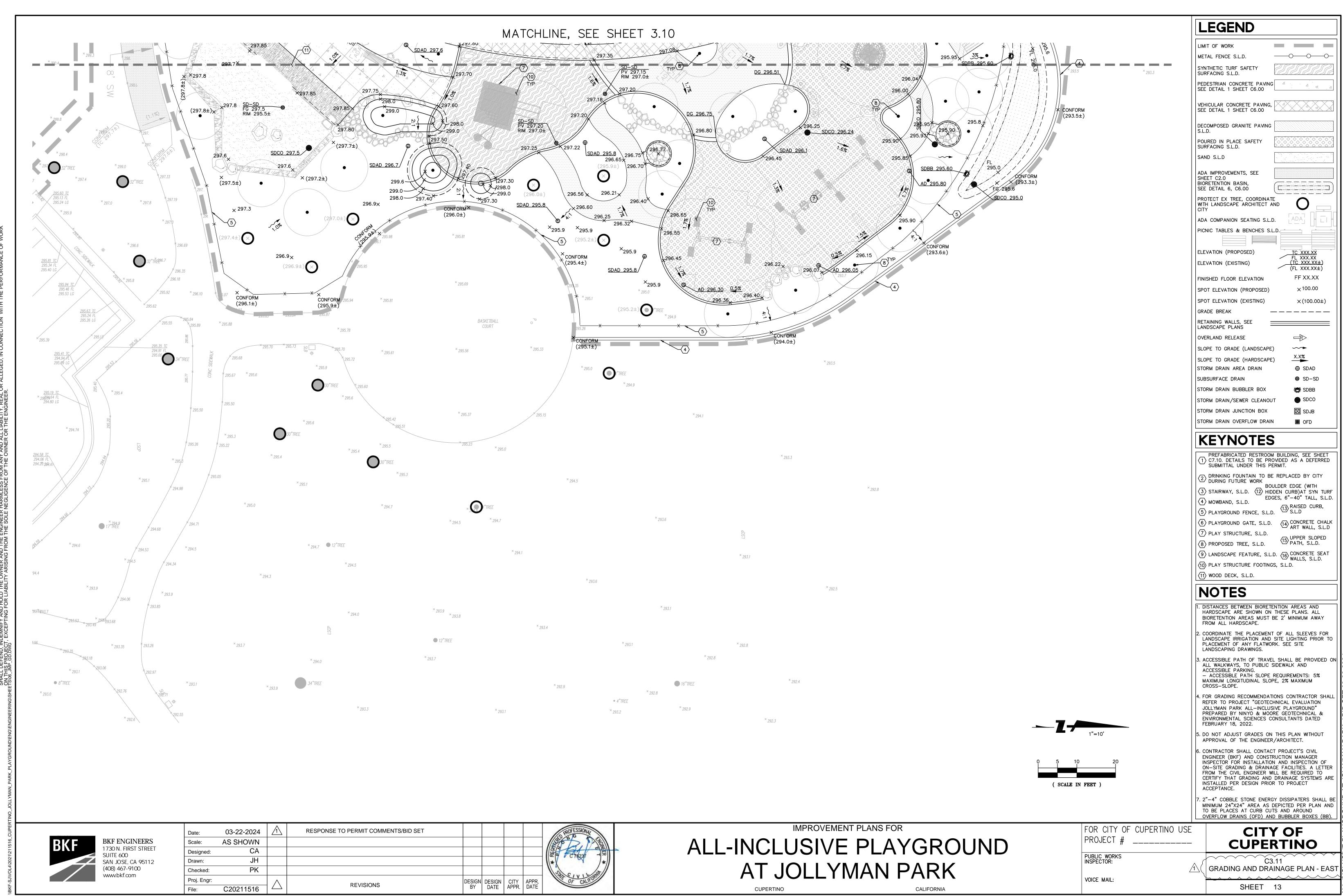
ALL-INCLUSIVE PLAYGROUND

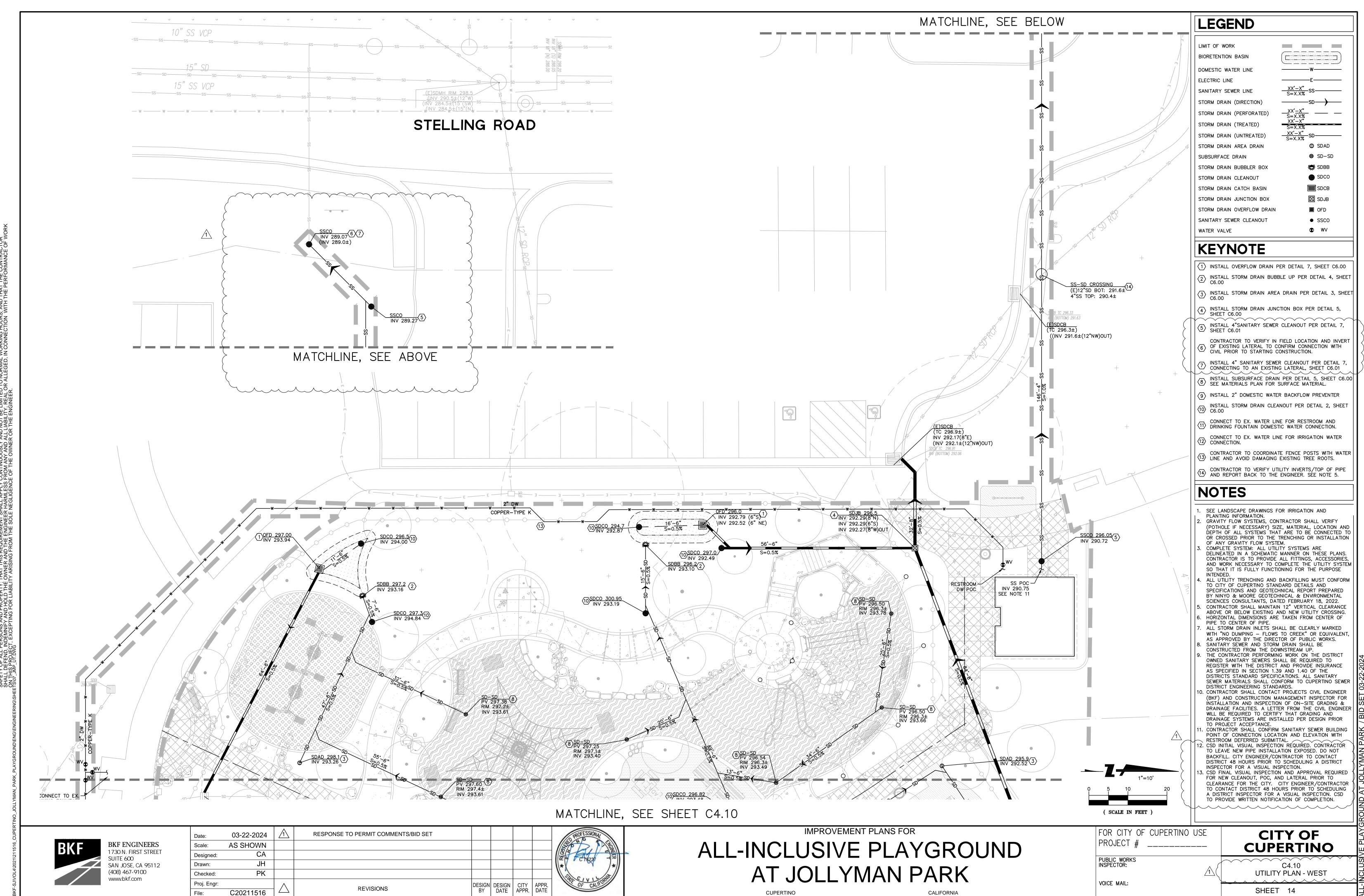
PROJECT # \_\_\_\_\_

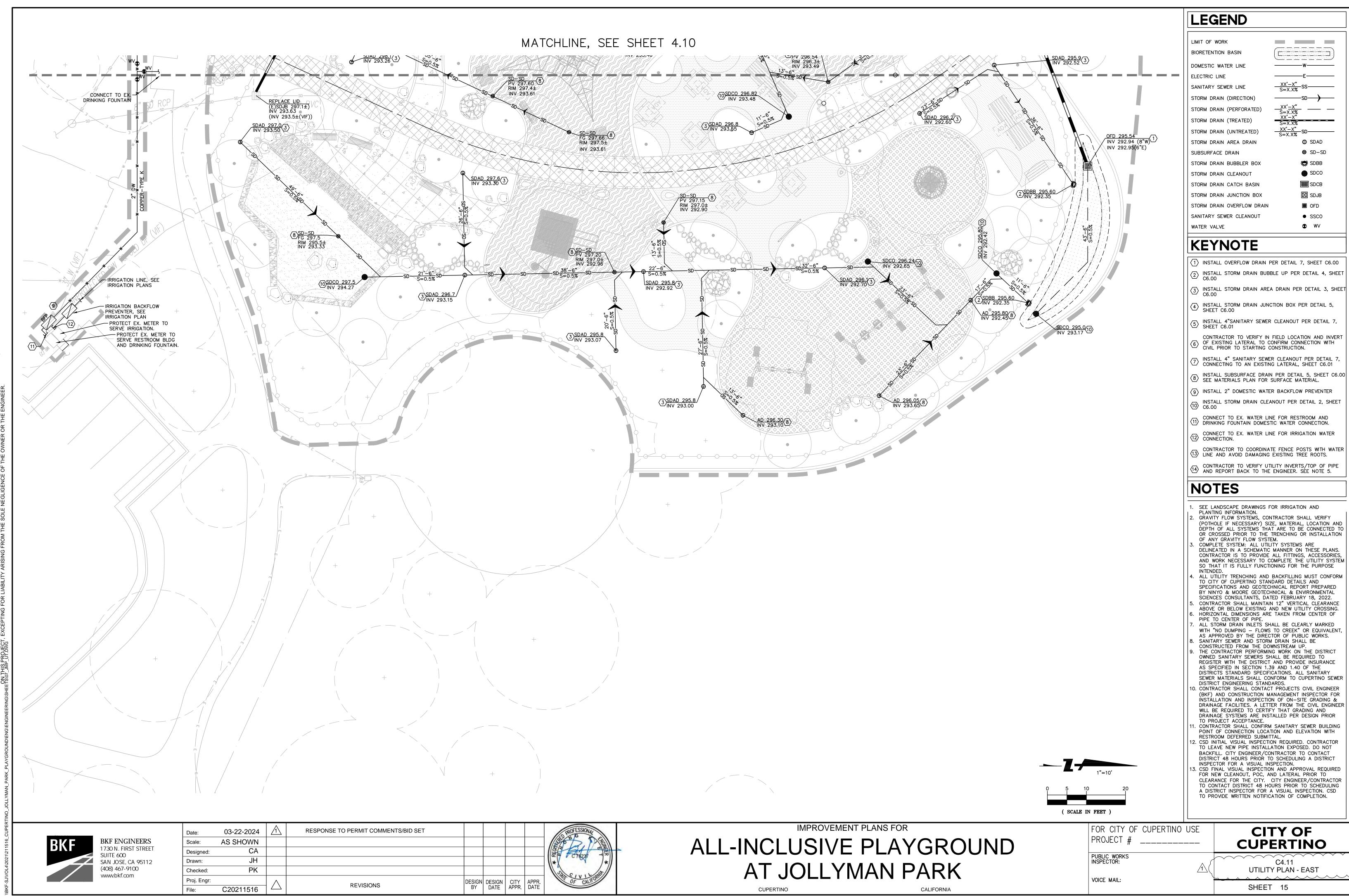
VOICE MAIL:

**BEST MANAGEMENT PRACTICES** 











PROJECT SITE INFORMATION:

- SOILS TYPE:
- GROUND WATER DEPTH: NAME OF RECEIVING BODY: GUADALUPE 4. FLOOD ZONE: 5. FLOOD ELEVATION:
  - SOURCE CONTROL MEASURES:
- BENEFICIAL LANDSCAPING.
- 2. USE OF WATER EFFICIENT IRRIGATION SYSTEMS.
- MAINTENANCE (PAVEMENT SWEEPING, CATCH BASIN CLEANING, GOOD HOUSEKEEPING).

#### SITE DESIGN MEASURES:

- PROTECT EXISTING TREES, VEGETATION, AND SOIL.
- 2. PRESERVE OPEN SPACE AND NATURAL DRAINAGE PATTERNS.
- 3. DIRECT RUNOFF FROM ROOFS, SIDEWALKS, PATIOS TO LANDSCAPED AREAS.

4. PLANT TREES ADJACENT TO AND IN PARKING AREAS AND

- ADJACENT TO OTHER IMPERVIOUS AREAS. CREATE NEW PERVIOUS AREAS: LANDSCAPING

#### BIORETENTION & FLOW-THROUGH PLANTER NOTES:

- SEE GRADING PLAN FOR BASIN FOOTPRINT AND DESIGN ELEVATIONS.
- 2. PLACE 3 INCHES OF COMPOSTED, NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS AND SIDE SLOPES.
- SEE LANDSCAPE PLAN FOR MULCH, PLANT MATERIALS AND IRRIGATION REQUIREMENTS
- . CURB CUTS SHALL BE A MINIMUM 18" WIDE AND SPACED AT MAXIMUM 10' O.C. INTERVALS AND SLOPED TO DIRECT STORMWATER TO DRAIN INTO THE BASIN. CURB CUTS SHALL ALSO NOT BE PLACED INLINE WITH OVERFLOW CATCH BASIN. SEE GRADING PLAN FOR MORE DETAIL ON LOCATIONS OF CURB CUTS.
- 5. A MINIMUM 0.2' DROP BETWEEN STORM WATER ENTRY POINT (I.E. CURB OPENING, FLUSH CURB, ETC.) AND ADJACENT LANDSCAPE FINISHED GRADE.
- 6. DO NOT COMPACT NATIVE SOIL / SUBGRADE AT BOTTOM OF BASIN. LOOSEN SOIL TO 12" DEPTH.

## **LEGEND** LIMIT OF WORK PCC CONCRETE GRASS PAVER PLANTING AREA DMA-1 DRAINAGE MANAGEMENT AREA

STORM DRAIN (PERFORATED)

STORM DRAIN (TREATED)

STORM DRAIN (UNTREATED)

STORM DRAIN AREA DRAIN

STORM DRAIN BUBBLER BOX

STORM DRAIN CATCH BASIN

STORM DRAIN DROP INLET

STORM DRAIN MANHOLE

STORM DRAIN JUNCTION BOX

FLOW DIRECTION (PLANTING AREA)

**---**

- FLOW DIRECTION (PAVEMENT AREA) OVERLAND RELEASE DIRECTION BIOTREATMENT SOIL REQUIREMENTS BIORETENTION SOIL MIX SHALL MEET THE REQUIREMENTS AS OUTLINED IN APPENDIX C OF THE C.3 STORM WATER HANDBOOK AND SHALL BE A MIXTURE OF FINE SAND AND COMPOST MEASURED ON A VOLUME BASIS OF 60-70% SAND AND
- PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

30-40% COMPOST. CONTRACTOR TO REFER TO

APPENDIX C FOR SAND AND COMPOST MATERIAL

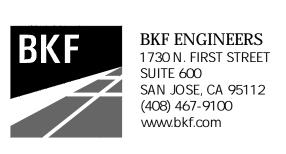
HTTP: //WWW.SANJOSECA.GOV/INDEX.ASPX?NID=1761

SPECIFICATIONS. CONTRACTOR MAY OBTAIN A

COPY OF THE C3 HANDBOOK AT:

## STANDARD STORMWATER CONTROL NOTES:

- STANDING WATER SHALL NOT REMAIN IN THE TREATMENT MEASURES FOR MORE THAN FIVE DAYS, TO PREVENT MOSQUITO GENERATION. SHOULD ANY MOSQUITO ISSUES ARISE, CONTACT THE SANTA CLARA VALLEY VECTOR CONTROL DISTRICT (DISTRICT). MOSQUITO LARVICIDES SHALL BE APPLIED ONLY WHEN ABSOLUTELY NECESSARY, AS INDICATED BY THE DISTRICT, AND THEN ONLY BY A LICENSED PROFESSIONAL OR CONTRACTOR. CONTACT INFORMATION FOR THE DISTRICT IS PROVIDED BELOW.
- DO NOT USE PESTICIDES OR OTHER CHEMICAL APPLICATIONS TO TREAT DISEASED PLANTS, CONTROL WEEDS OR REMOVED UNWANTED GROWTH. EMPLOY NON-CHEMICAL CONTROLS (BIOLOGICAL, PHYSICAL AND CULTURAL CONTROLS) TO TREAT A PEST PROBLEM. PRUNE PLANTS PROPERLY AND AT THE APPROPRIATE TIME OF YEAR. PROVIDE ADEQUATE IRRIGATION FOR LANDSCAPE PLANTS. DO NOT OVER WATER.



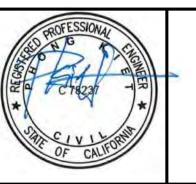
RESPONSE TO PERMIT COMMENTS/BID SET 03-22-2024 **AS SHOWN** PΚ DESIGN DESIGN CITY APPR. BY DATE REVISIONS C20211516

|Bioretention lined\* w/ underdrain

|Bioretention lined\* w/ underdrain

Bioretention lined\* w/ underdrain

\*\* Sizing for Bioretention Area Required calculated using the 4% Method (Impervious Area x 0.04)



6,592

7,529

Totals: 38,032 17,267

3,306

3,286

3,761

N/A **20,766** 100.00%

2C. Flow: 4%

Method \*\*

2C. Flow: 4%

Method \*\*

2C. Flow: 4%

Method \*\*

\* "Lined" refers to an impermeable liner placed on the bottom of a Bioretention basin or a concrete Flow-Through Planter, such that no infiltration into native soil occurs.

\*\*\* Per Chapter 2.3 of the C3 Stormwater Handbook Roadway projects that add new sidewalk along an existing roadway are exempt from Provision C.3.c of the Municipal Stormwater Permit.

IMPROVEMENT PLANS FOR

718

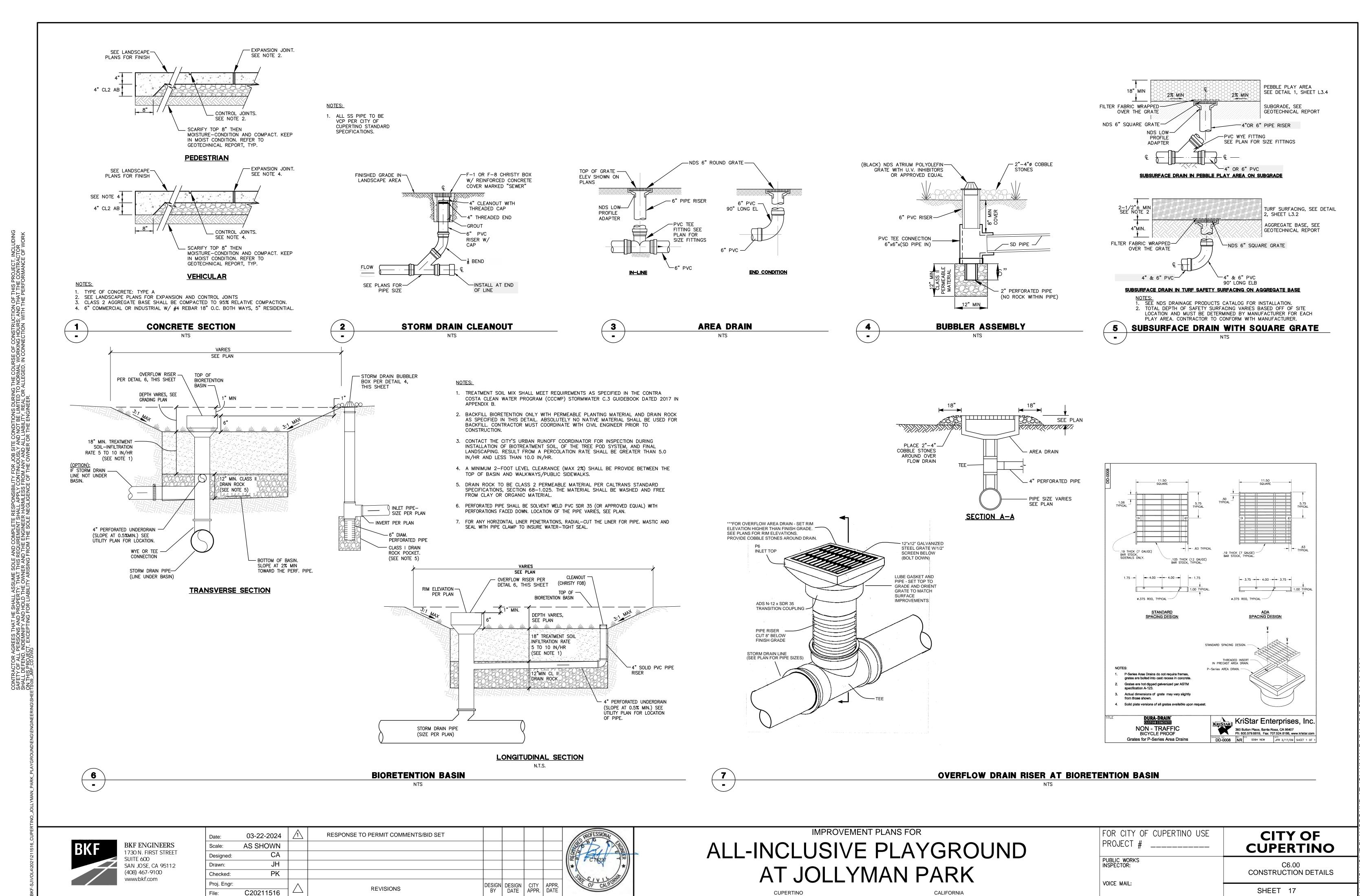
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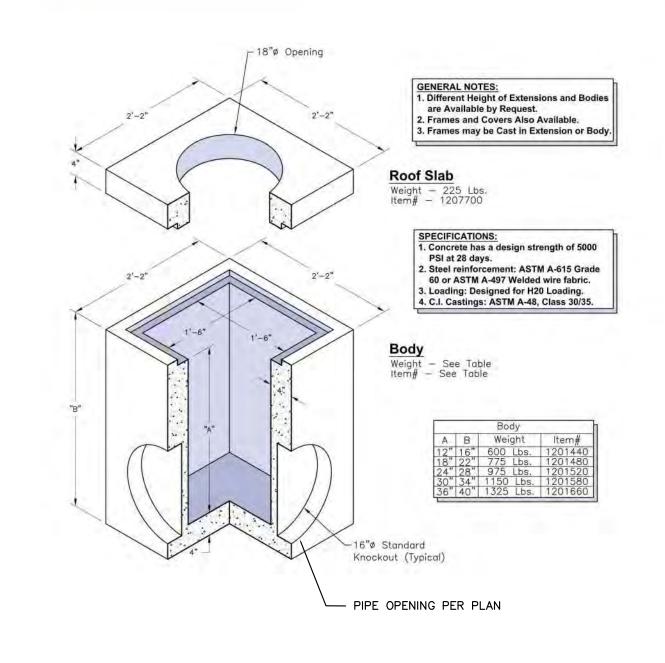
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691

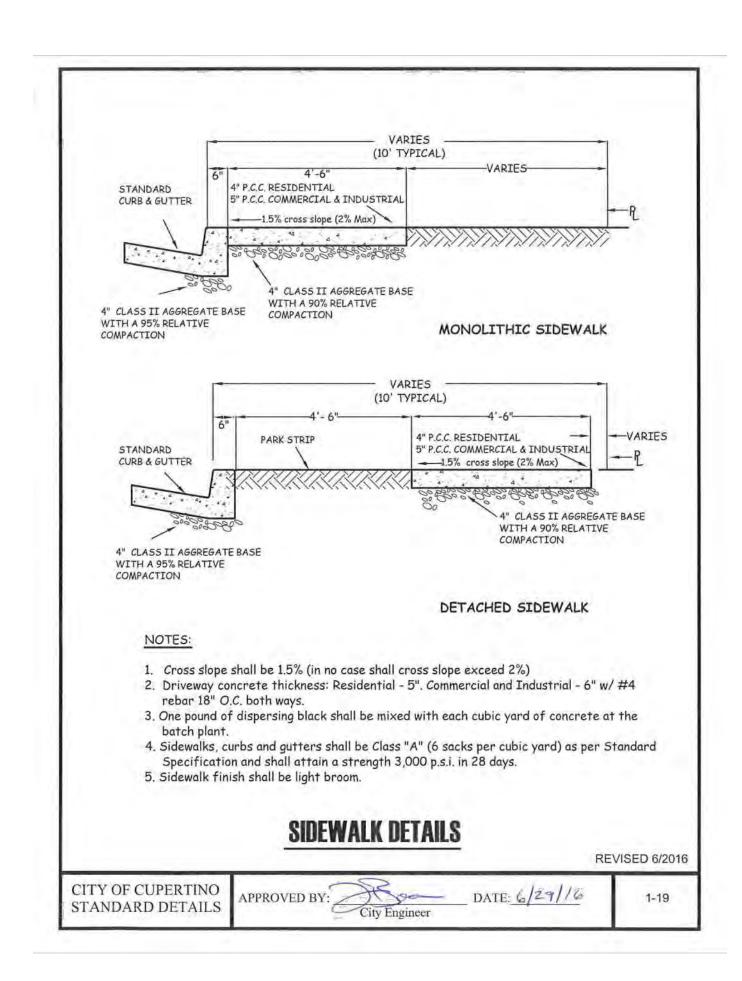
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

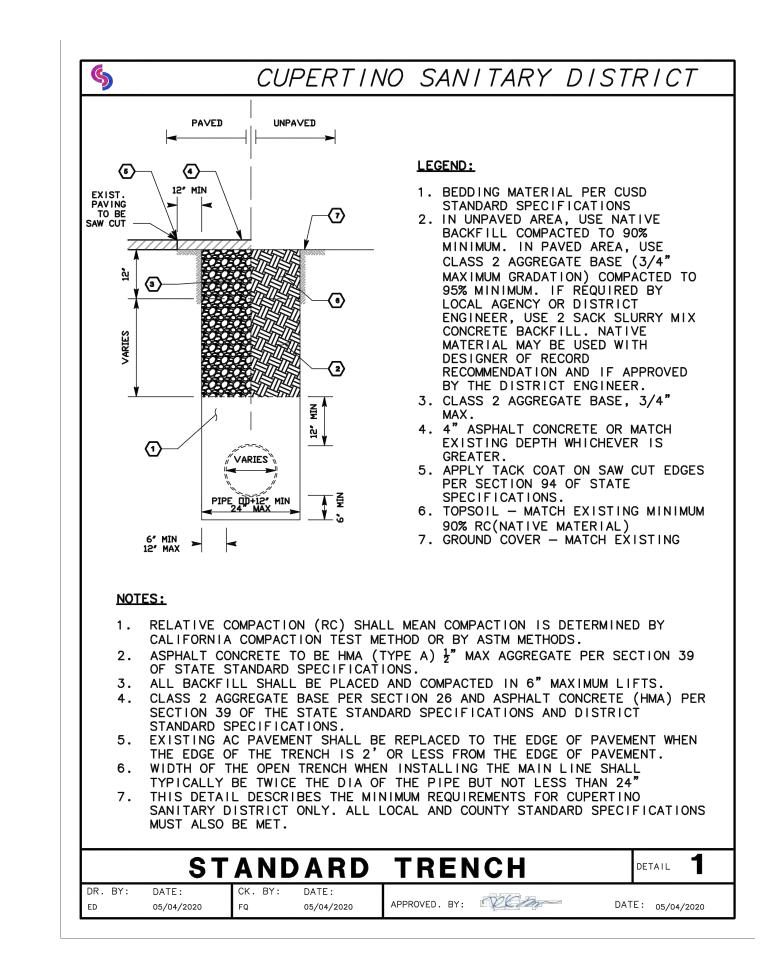
| FOR CITY OF CUPERTINO USE PROJECT #  | CITY OF<br>CUPERTINO               |
|--------------------------------------|------------------------------------|
| PUBLIC WORKS INSPECTOR:  VOICE MAIL: | C5.10<br>STORMWATER MANAGEMENT PLA |
| VOICE MAIL;                          | SHEET 16                           |

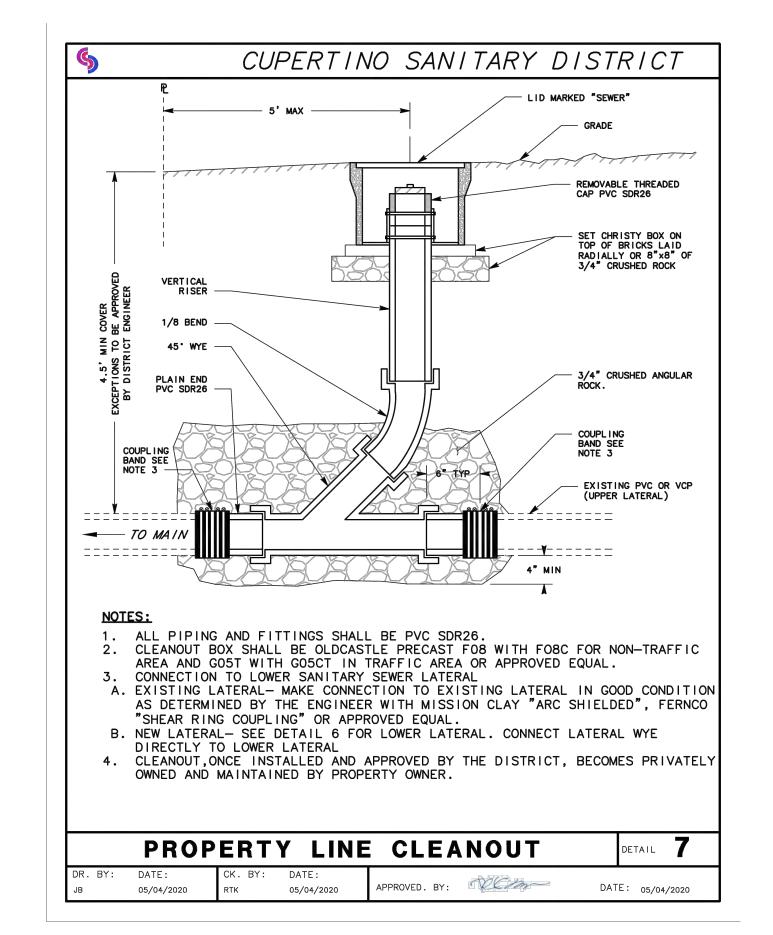




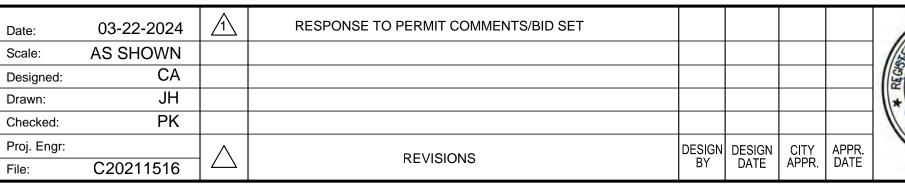
**JUNCTION BOX** 











PROFESSIONAL CIED

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE
PROJECT # CUPERTINO

PUBLIC WORKS INSPECTOR:

C6.01
CONSTRUCTION DETAILS

VOICE MAIL:

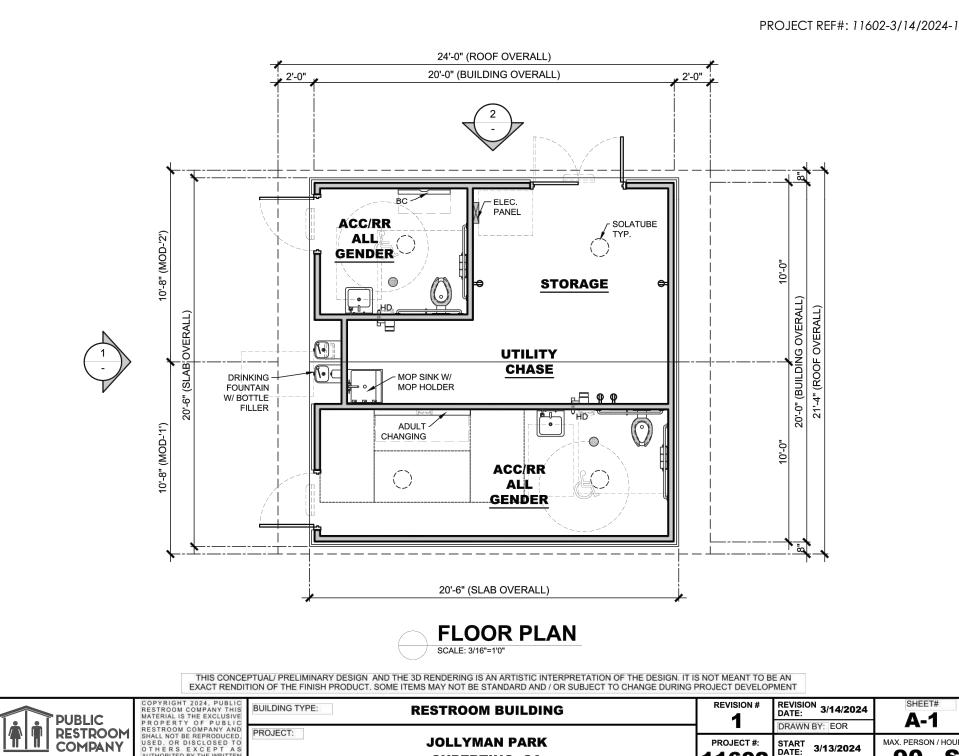
SHEET 18

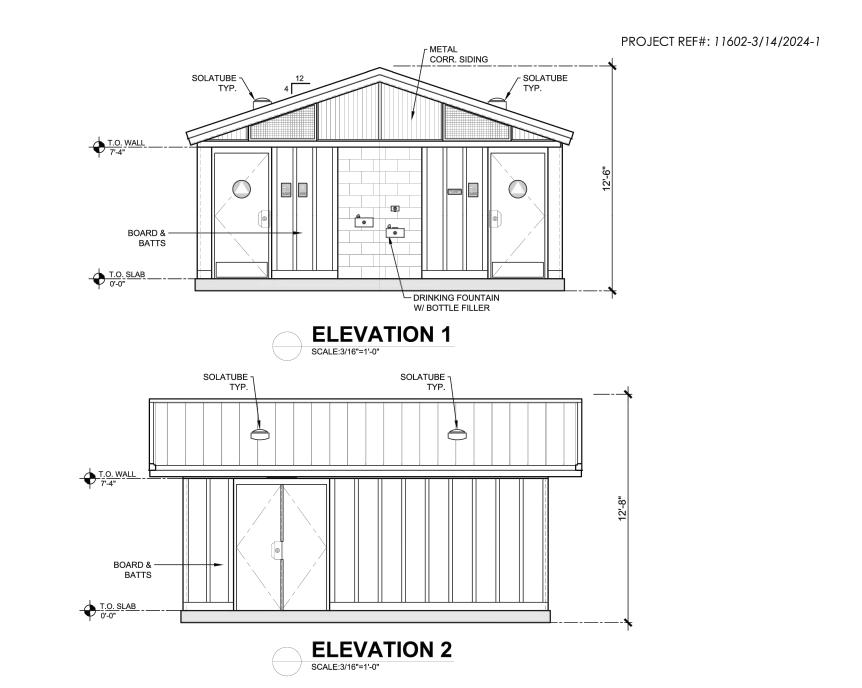
NOVEMBER 2023

OR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLL INUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR 1 ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WITH OWNER OR THE ENGINEER.

NO







EXACT RENDITION OF THE FINISH PRODUCT. SOME ITEMS MAY NOT BE STANDARD AND / OR SUBJECT TO CHANGE DURING PROJECT DEVELOPMENT

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PROJECT:

JOLLYMAN PARK

PROJECT #: START 3/13/2024 DATE: 3/13/

## <u>SELECTIONS</u>

1. STYLE SELECTION: NATURAL CMU BLOCK/GRAY, PRECISION BLOCK FRC CEDARMILL BOARD AND BATTON SIDING

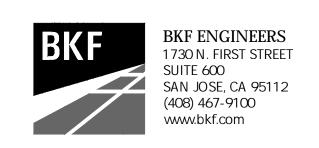
P: 888-888-2060 F: 888-888-1448

- 2. ROOF SELECTION: STANDING SEAM METAL
- 3. LIGHTING SELECTION: LUMINAIR AEL-12 (DARK SKY COMPLIANT) 20" LONG PHOTOCELL CONTROLLED. SOLAR TUBES+ LED INTERIOR LUMINAIRE, SWOOP SERIES SWP1212-BRZ-OCC

#### INOTES:

- 1. PREFABRICATED RESTROOM IS TO BE A DEFERRED SUBMITTAL.

  MANUFACTURER'S RESTROOMS TO MEET 2022 CALIFORNIA CODE AND
  REGULATIONS, CALIFORNIA ACCESSIBILITY CODES, AND FEDERAL CODE FOR
  AN ADULT CHANGING ROOM. RESTROOM DESIGN AND ENGINEERING WILL BE
  SUBMITTED AT THE STATE LEVEL FOR STAMP AND APPROVAL. A COPY OF
  THOSE PLAN WILL BE PROVIDED ONCE UNDER CONTRACT.
- 2. CONTRACTOR TO VERIFY WITH RESTROOM DEFERRED SUBMITTAL AND SITE PERMIT PLANS THE LOCATION OF SEWER, WATER, AND POWER POCS.
- 3. RESTROOM MANUFACTURER TO PROVIDE UNDERGROUND UTILITY POC 2 FEET BEYOND BUILDING FOUNDATION PER SITE PLAN.
- 4. CONTRACTOR TO MAKE FINAL UTILITY CONNECTIONS TO THE RESTROOM FOR WATER, SEWER, AND ELECTRICAL EXTENDING 2—FEET MINIMUM FROM THE FOUNDATION OF THE BUILDING.
- 5. SEE DEFERRED SUBMITTAL FOR RESTROOM FOUNDATION AND PAD DRAWINGS.
- 6. MANUFACTURER TO PROVIDE FINAL RENDERING UPON SELECTION.
- 7. RESTROOM BUILDING REQUIRED TO ADHERE TO 2022 BUILDING CODE AND REGULATIONS.
- 8. RESTROOM BUILDING DESIGNED TO BE CONSTRUCTED WITH A INTEGRAL 8"THICK MAT SLAB. CONTRACTOR RESPONSIBLE FOR PROVIDING PAD BASE AND SUB GRADE PER MANUFACTURER'S REQUIREMENTS AND GEOTECHNICAL REPORT RECOMMENDATIONS.



| Date:       | 03-22-2024 | <u> 1</u>   | RESPONSE TO PERMIT COMMENTS/BID SET |        |                |               |               | 1/8  |
|-------------|------------|-------------|-------------------------------------|--------|----------------|---------------|---------------|------|
| Scale:      | AS SHOWN   |             |                                     |        |                |               |               | 1/3  |
| Designed:   | CA         |             |                                     |        |                |               |               | REGE |
| Drawn:      | JH         |             |                                     |        |                |               |               | (*)  |
| Checked:    | PK         |             |                                     |        |                |               |               | 1/3  |
| Proj. Engr: |            | $\land$     | DEVICIONS                           | DESIGN |                | CITY          | APPR.         | 1/3  |
| File:       | C20211516  |             | REVISIONS                           | BY     | DATE           | APPR.         | DATE          |      |
|             | C20211516  | $\triangle$ | REVISIONS                           |        | DESIGN<br>DATE | CITY<br>APPR. | APPR.<br>DATE |      |

IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

IO CALIFO

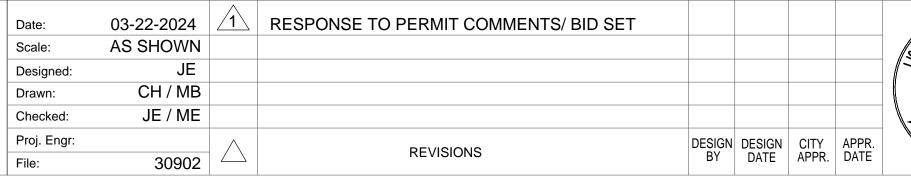
| FOR CITY OF CU<br>PROJECT # | PERTINO USE | CITY OF<br>CUPERTINO |
|-----------------------------|-------------|----------------------|
| PUBLIC WORKS<br>INSPECTOR:  |             | C7.10 RESTROOM PLANS |
| VOICE MAIL:                 |             | SHEET 19             |

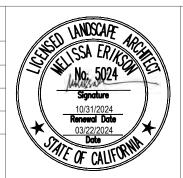
## MATERIALS SCHEDULE

| DETAIL /<br>LEGEND     | CONCRETE +<br>SURFACING<br>MATERIALS                   | RELATED<br>SPECS | MODEL                                                              | DESCRIPTION/OPTIONS                                                                                                                         | QTY    | MANUFACTURER              | CONTACT                                                                      |
|------------------------|--------------------------------------------------------|------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|------------------------------------------------------------------------------|
| 1/C6.00                | PEDESTRIAN<br>CONCRETE PAVING                          | 03 30 00         | -                                                                  | see Specs                                                                                                                                   | -      | -                         | -                                                                            |
| 1/C6.00                | VEHICULAR<br>CONCRETE PAVING                           | 03 30 00         | -                                                                  | see Specs                                                                                                                                   | -      | -                         | -                                                                            |
| 9/L3.00<br>10/L3.00    | DECOMPOSED GRANITE<br>(DG) PAVING WITH METAL<br>HEADER | 32 15 40         | -                                                                  | see Specs for Decomposed Granite<br>see Detail for Metal Header product                                                                     | -      | -                         | -                                                                            |
| 7-9/L3.00              | SYNTHETIC TURF SAFETY<br>SURFACING (STSS)              | 32 18 16         | -                                                                  | see Specs                                                                                                                                   | -      | Forever Lawn              | see Specs for Contact                                                        |
| 6/L3.00                | POURED IN PLACE SAFETY<br>SURFACING (PIPSS)            | 32 18 16         | -                                                                  | see Specs                                                                                                                                   | -      | Robertson Tot Turf        | see Specs for Contact                                                        |
| 1/L3.04                | SAND                                                   | 32 18 16         | -                                                                  | see Specs                                                                                                                                   | -      | -                         | -                                                                            |
| Multiple<br>L3 Details | CIP CONCRETE                                           | 03 30 00         | -                                                                  | see Specs                                                                                                                                   | -      | -                         | -                                                                            |
| DETAIL /<br>LEGEND     | PLAY EQUIPMENT                                         | RELATED<br>SPECS | MODEL                                                              | DESCRIPTION/OPTIONS                                                                                                                         | ΩΤΥ    | MANUFACTURER              | CONTACT                                                                      |
|                        | YOUTH AREA (AGE 5-12):                                 |                  |                                                                    |                                                                                                                                             |        |                           |                                                                              |
| 1/L3.06                | EMBANKMENT SLIDE:<br>WIDE (STRAIGHT)                   | 11 68 00         | Custom 96" SST Double Slide                                        | Slide: Stainless Steel Colors TBD by Submittal Process: Posts - ProShield Colors Transfer Platform - TenderTuff Coating                     | 1      | Landscape Structures Inc. | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6897           |
| 1/L3.06                | EMBANKMENT SLIDE:<br>GEMINI                            | 11 68 00         | Gemini SlideWinder2                                                | Slides - Polyethelyne, Color TBD Colors for below TBD by Submittal Process: Posts - ProShield Colors Transfer Platform - TenderTuff Coating | 1      | Landscape Structures Inc. | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6898           |
| 2/L3.07                | ROPE PULL                                              | 11 68 00         | Custom for slide hill dimensions                                   | Exact Dimensions by manufacturer to be sent upon Ordering. Color TBD by Submittal Process                                                   | 1      | Landscape Structures Inc. | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6899           |
| 3/L3.07                | HAND GRIPS                                             | 11 68 00         | CP001443                                                           | (2) sets of 10-count<br>Color TBD by Submittal Process                                                                                      | 2 sets | Landscape Structures Inc. | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6900           |
| 2/L3.06                | SPINNER                                                | 11 68 00         | 218915A                                                            | Colors TBD by Submittal Process                                                                                                             | 1      | Landscape Structures Inc. | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6901           |
| 4/L3.07                | NET CLIMBER                                            | 11 68 00         | COR314011-1101 Macro Spacenet                                      | Colors TBD by Submittal Process                                                                                                             | 1      | Kompan                    | Kelly O'Keefe<br>KelOke@kompan.com<br>Cell 341-766-2675                      |
| 2/L3.08                | YOUTH SWINGS                                           | 11 68 00         | #NRO924 with 2 each #SW990011 Belt style seat and 2 each ADA seats | 2bay (2 belt seats, 2 molded accessible seats). Colors TBD by Submittal Process                                                             | 1      | Kompan                    | Kelly O'Keefe<br>KelOke@kompan.com<br>Cell 341-766-2675                      |
| 1/L3.08                | NEST SWINGS                                            | 11 68 00         | NRO924-CUSTOM (20106658) with 2 rope nests                         | Double Nest, larger size, rope seat (2 nests). Colors TBD by Submittal Process                                                              | 1      | Kompan                    | Kelly O'Keefe<br>KelOke@kompan.com<br>Cell 341-766-2675                      |
|                        | TOT AREA (AGE 2-5):                                    |                  |                                                                    |                                                                                                                                             |        |                           |                                                                              |
| 3/L3.08                | TOT SWINGS                                             | 11 68 00         | #NRO922 with 2 each SW990023<br>Tot Seats                          | 1bay (2 tot bucket seats)<br>Colors TBD by Submittal Process                                                                                | 1      | Kompan                    | Kelly O'Keefe<br>KelOke@kompan.com<br>Cell 341-766-2675                      |
| 4/L3.08                | TOT PLAY STRUCTURE                                     | 11 68 00         | Junior Tower #CA257714                                             | Structure: Standard wood finish<br>Slide: Stainless Steel<br>With Hammock Add-On.                                                           | 1      | Earthscape                | Will Tichenor, Dave Bang Associates,<br>will@davebang.com<br>P: 800-669-2585 |

| DETAIL /<br>LEGEND  | SITE FURNISHINGS                     | RELATED<br>SPECS | MODEL                                                                                                                          | DESCRIPTION/OPTIONS                                                                                                                              | QTY                     | MANUFACTURER                    | CONTACT                                                            |
|---------------------|--------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------------------|
| 4/L3.09             | GAME TABLE + CHAIRS                  | 12 93 00         | DuMor 63-110-24I<br>Approx. 4' table, 4 Seats, and Game<br>board                                                               | Wood: Ipe Frame Color: TBD by Submittal Process Attachment: S-1 Embedment With Chess/checkers game board                                         | 2                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6901 |
| 5/L3.09             | GAME TABLE + CHAIRS -<br>ADA VERSION | 12 93 00         | DuMor 63-110-23I<br>Approx. 4' table, 3 Seats, and Game<br>board                                                               | Wood: Ipe<br>Frame Color: TBD by Submittal Process<br>Attachment: S-1 Embedment<br>With Chess/checkers game board                                | 3                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6902 |
| 6/L3.09             | PICNIC TABLE                         | 12 93 00         | DuMor 67-079-6<br>Approx. 6' table with benches                                                                                | Wood: Ipe<br>Frame Color: TBD by Submittal Process<br>Attachment: S-1 Embedment                                                                  | 2                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6903 |
| 7/L3.09             | PICNIC TABLE -<br>ADA VERSION        | 12 93 00         | DuMor 67-079-68-1<br>Approx. 8' table with benches and<br>wheelchair clear space                                               | Wood: Ipe<br>Frame Color: TBD by Submittal Process<br>Attachment: S-1 Embedment                                                                  | 2                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6904 |
| 8/L3.09             | BUFFET TABLE                         | 12 93 00         | DuMor 67-079-6I-01 *no benches, standard picnic table height                                                                   | Wood: Ipe<br>Frame Color: TBD by Submittal Process<br>Attachment: S-1 Embedment                                                                  | 1                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6905 |
| 2/L3.09             | PARK BENCH                           | 12 93 00         | Dumor 520-60I<br>6' Bench with amrests, both ends                                                                              | Wood: Ipe Frame and Armrests Color: TBD by Submittal Process See dwg for support/attachment                                                      | 8                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6906 |
| 3/L3.09             | GLIDER BENCH                         | 12 93 00         | Dumor 6B-439-6I<br>with S-1 embedment option                                                                                   | Wood: Ipe<br>Powdercoated Steel Frame Color: TBD by<br>Submittal Process<br>Attachment: S-1 Embedment                                            | 2                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6907 |
| 1/L3.07             | SHADE SAILS AT SLIDE HILL            | 12 93 00         | Custom Skyways Triangle Sails                                                                                                  | Detailed drawings by manufacturer to be sent upon Ordering. Colors: TBD by Submittal Process                                                     | -                       | Landscape Structures Inc.       | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6908 |
| 9/L3.09             | BIKE RACK                            | 12 93 00         | Dumor 125-40                                                                                                                   | Colore: TBD by Submittal<br>Attachment: S-1 Embedment                                                                                            | 1                       | DuMor                           | Alex Hailey, Ross Recreation,<br>alexh@rossrec.com<br>707.736.6909 |
| OFCI                | TRASH RECEPTACLES                    | 12 93 00         | Owner-furnished, contractor-installed (OFCI)                                                                                   | City Representative to provide product and dimensions. Contractor to pour concrete pad to fit and surface mount per manufacturer's instructions. | 2                       | Per City Representative         | Contact City Representative                                        |
| 3/L3.06             | CHIMES                               | 12 93 00         | Emperor Chimes                                                                                                                 | Set of 6, Ground Fix (Embed Mount)                                                                                                               | 1 SET                   | Percussion Play                 | Joel Canon, joel@landrec.com<br>Direct: 619-884-7776               |
| 4/L3.06             | DRUMS                                | 12 93 00         | Small Babel Drum, Large Babel Drum                                                                                             | Ground Fix (Embed Mount)                                                                                                                         | (1)S, (1)L              | Percussion Play                 | Joel Canon, joel@landrec.com<br>Direct: 619-884-7776               |
| 1A/L3.04            | LOG SEATING EDGE                     | 12 93 00         | Contractor Supplied                                                                                                            | 16" min. diameter, 20-24" average diameter. Wood species TBD.                                                                                    | Per dwgs                | Pacific Firewood & Lumber, Inc. | info@pacificfirewood.com                                           |
| 1/L3.09             | PLOP SEATS/BENCH                     | 12 93 00         | Q2KERNEL-S-SRC (Small)<br>Q2KERNEL-L-SRC (Large)                                                                               | Color: TBD by Submittal<br>Texture: TBD by Submittal<br>Sealer: Included                                                                         | (4) Small,<br>(6) Large | QCP                             | Neil Elenzweig<br>neil.elenzweig@qcp-corp.com<br>(951) 737-6240    |
| 1/L3.04             | RAISED SAND TABLE                    | 12 93 00         | Custom Fabrication                                                                                                             | Precast Concrete. Contractor to purchase/ship, install footing as shown and place on site.                                                       | 1                       | QCP                             | Neil Elenzweig<br>neil.elenzweig@qcp-corp.com<br>(951) 737-6240    |
| 1/L3.11             | INTERACTIVE ART FEATURE              | 12 93 00         | Custom Design/Fabrication                                                                                                      | Custom art element designed by UAP.<br>Contractor to purchase/ship, install footing<br>as shown and place on site.                               | 1                       | UAP                             | jason.marquis@uapcompany.com<br>tyler.smith@uapcompany.com         |
| DETAIL /<br>LEGEND  | MISCELLANEOUS                        | RELATED<br>SPECS | MODEL                                                                                                                          | DESCRIPTION/OPTIONS                                                                                                                              | QTY                     | MANUFACTURER                    | CONTACT                                                            |
| 3/L3.10             | NATURE RETREAT                       | 05 50 00         | Custom Fabrication                                                                                                             | Stainless steel                                                                                                                                  | 3                       | -                               | -                                                                  |
| 2/L3.10             | VINE ARCH                            | 05 50 00         | Custom Fabrication                                                                                                             | Galvanized with high performance coating, see specs<br>Color TBD by submittal                                                                    | 1                       | -                               | -                                                                  |
| 1/L3.01             | HANDRAILS                            | 05 50 00         | Custom Fabrication                                                                                                             | Galvanized with high performance coating, see specs<br>Color TBD by submittal                                                                    | -                       | -                               | -                                                                  |
| 5/L3.05             | GRANT<br>RECOGNITION SIGN            | 05 50 00         | Custom Sign Design/Fabrication                                                                                                 | See detail City of Cupertino to provide final artwork                                                                                            | 1                       | -                               | Contact City Representative for Artwork                            |
| 4/L3.10             | NON-VERBAL<br>COMMUNICATION SIGN     | 05 50 00         | Prefabricated sign with customization<br>by owner rep. Contractor to order and<br>install and supply sign<br>posts/attachment. | L (90" W x 24" H x 1/2" D) Post Mounted<br>Communications Board. Standard<br>aluminium on corrogated plastic core.                               | 1                       | Talk to Me Technologies         | -                                                                  |
| 1/L3.10             | ORNAMENTAL METAL<br>FENCE & GATES    | 32 31 19         | Ameristar Montage                                                                                                              | Style: Majestic. 4' Min. Height, Flush<br>Bottom Panels, 3" Play Picket Air-Space<br>Color: Black                                                | -                       | Ameristar                       | bonny.franklin@assaabloy.com                                       |
| 1/L3.05<br>and more | BOULDERS                             | 32 94 50         | -                                                                                                                              | See Specs<br>Also see various related boulder details on<br>L3.00 - L3.05                                                                        | -                       | -                               | See Specs                                                          |
|                     |                                      |                  |                                                                                                                                |                                                                                                                                                  |                         |                                 |                                                                    |

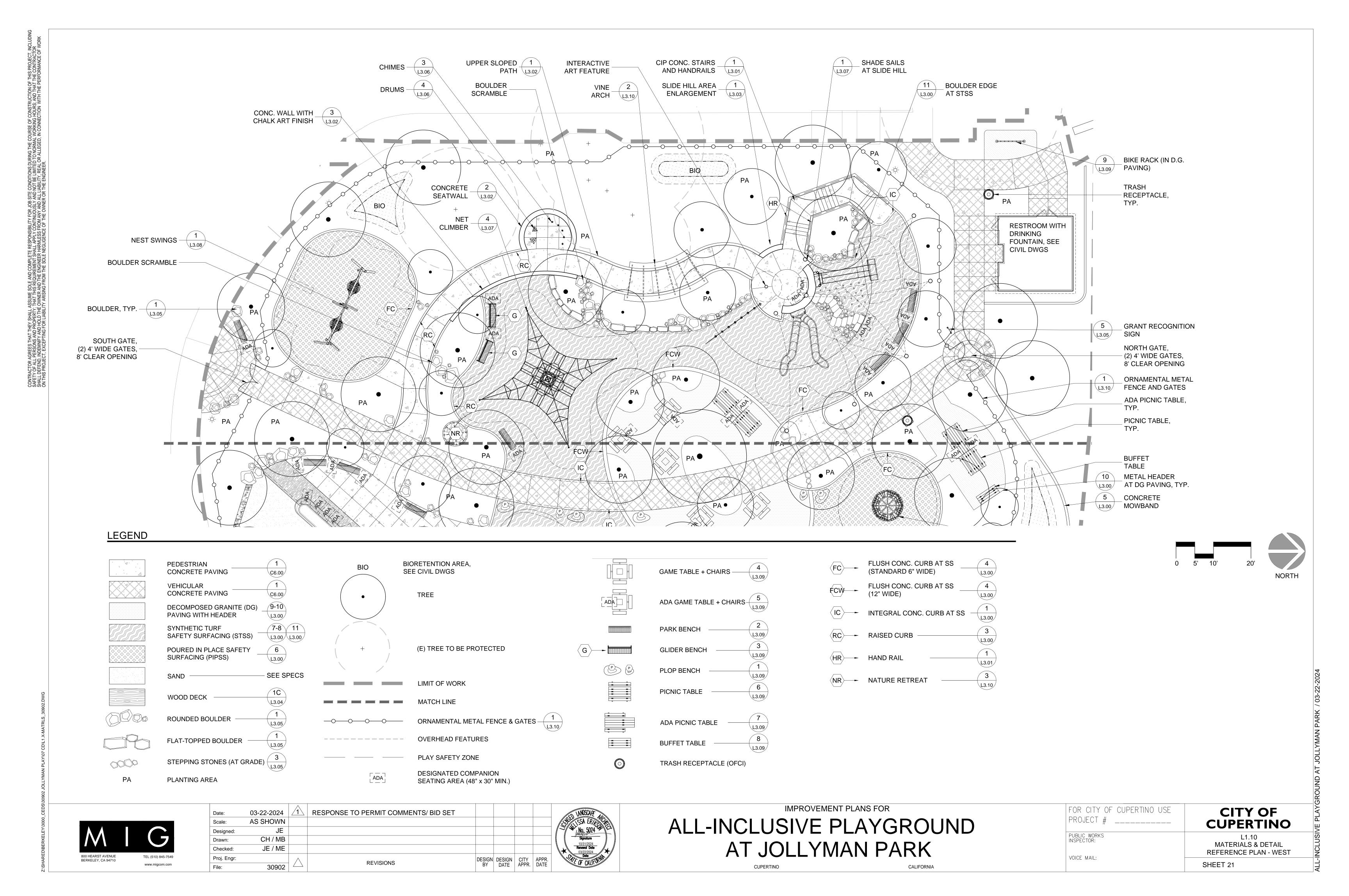


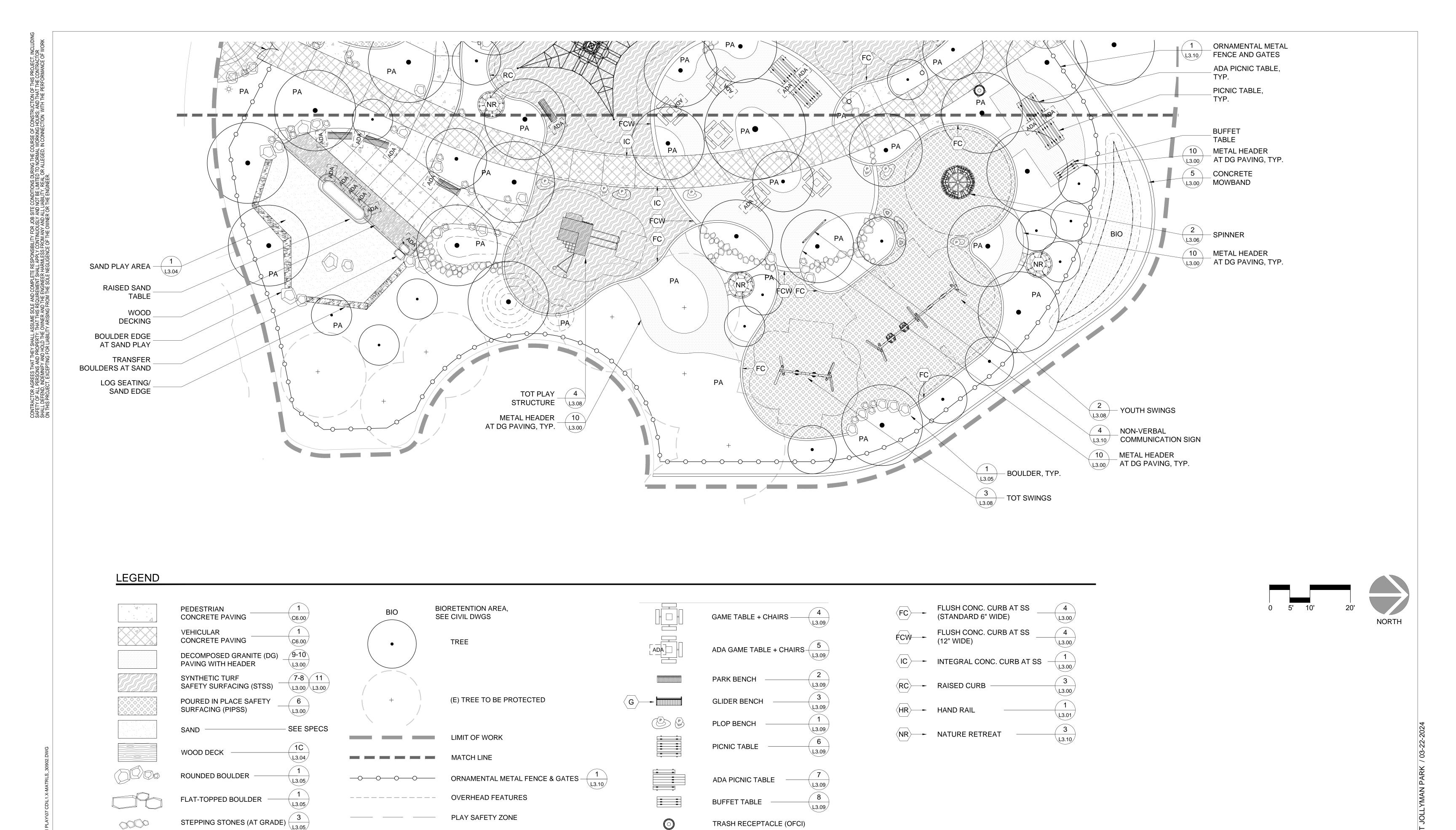




IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF CUPERTINO PUBLIC WORKS INSPECTOR: L1.00 MATERIALS SCHEDULE VOICE MAIL:



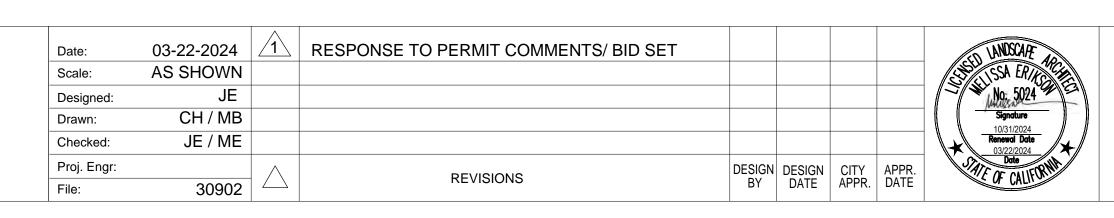


800 HEARST AVENUE
BERKELEY, CA 94710

TEL (510) 845-7549

www.migcom.com

PLANTING AREA

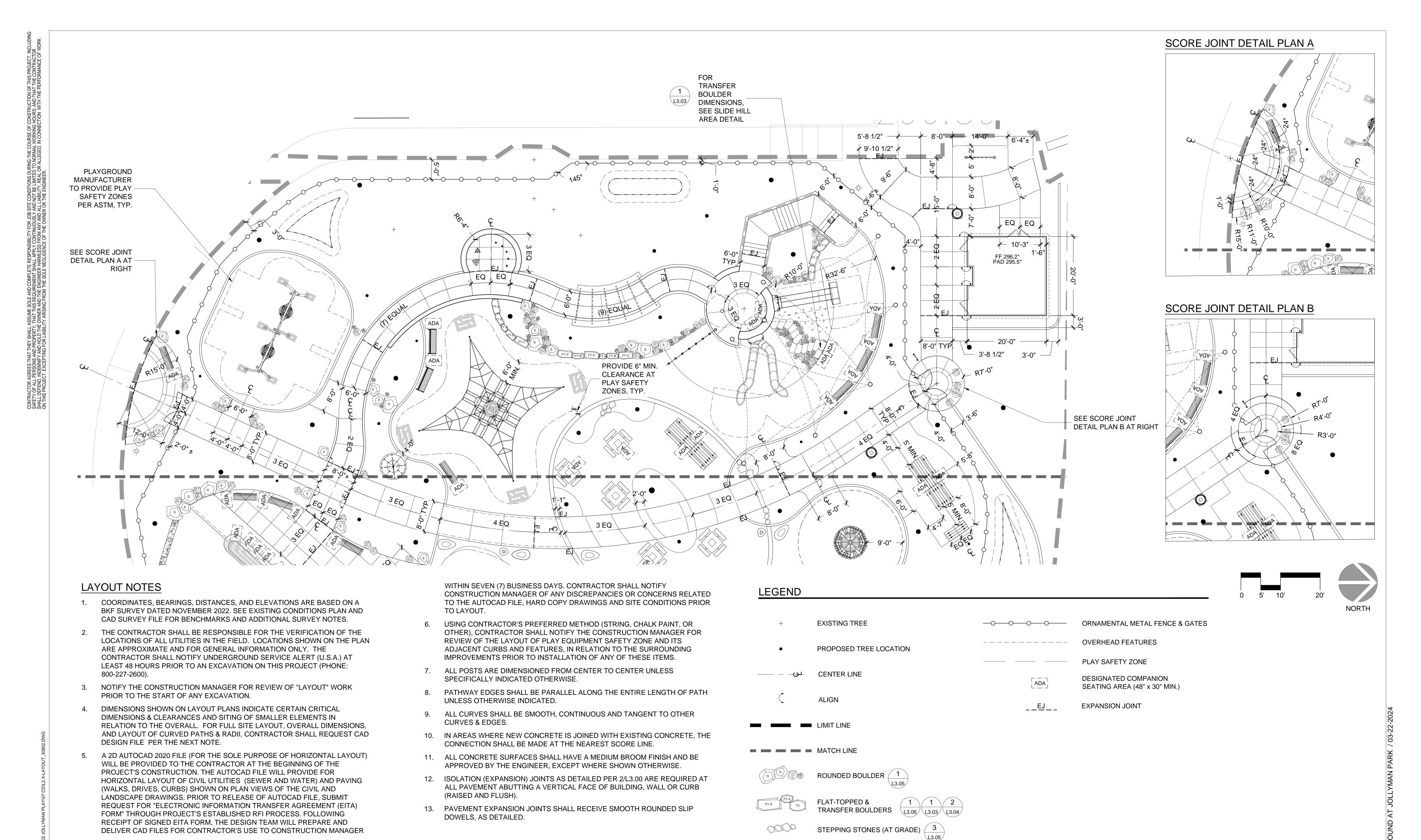


[ADA]

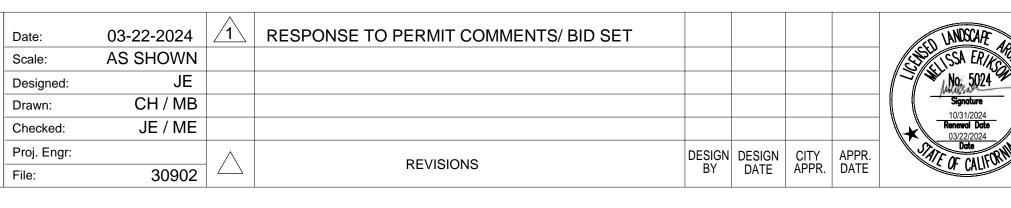
DESIGNATED COMPANION SEATING AREA (48" x 30" MIN.)

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK CUPERTINO CALIFORNIA

| FOR CITY OF CUPERTINO USE  | CITY OF                     |
|----------------------------|-----------------------------|
| PROJECT #                  | <b>CUPERTINO</b>            |
| PUBLIC WORKS<br>INSPECTOR: | L1.11<br>MATERIALS & DETAIL |
| VOICE MAII:                | REFERENCE PLAN - EAST       |
| VOICE WAIL.                | SHEET 22                    |



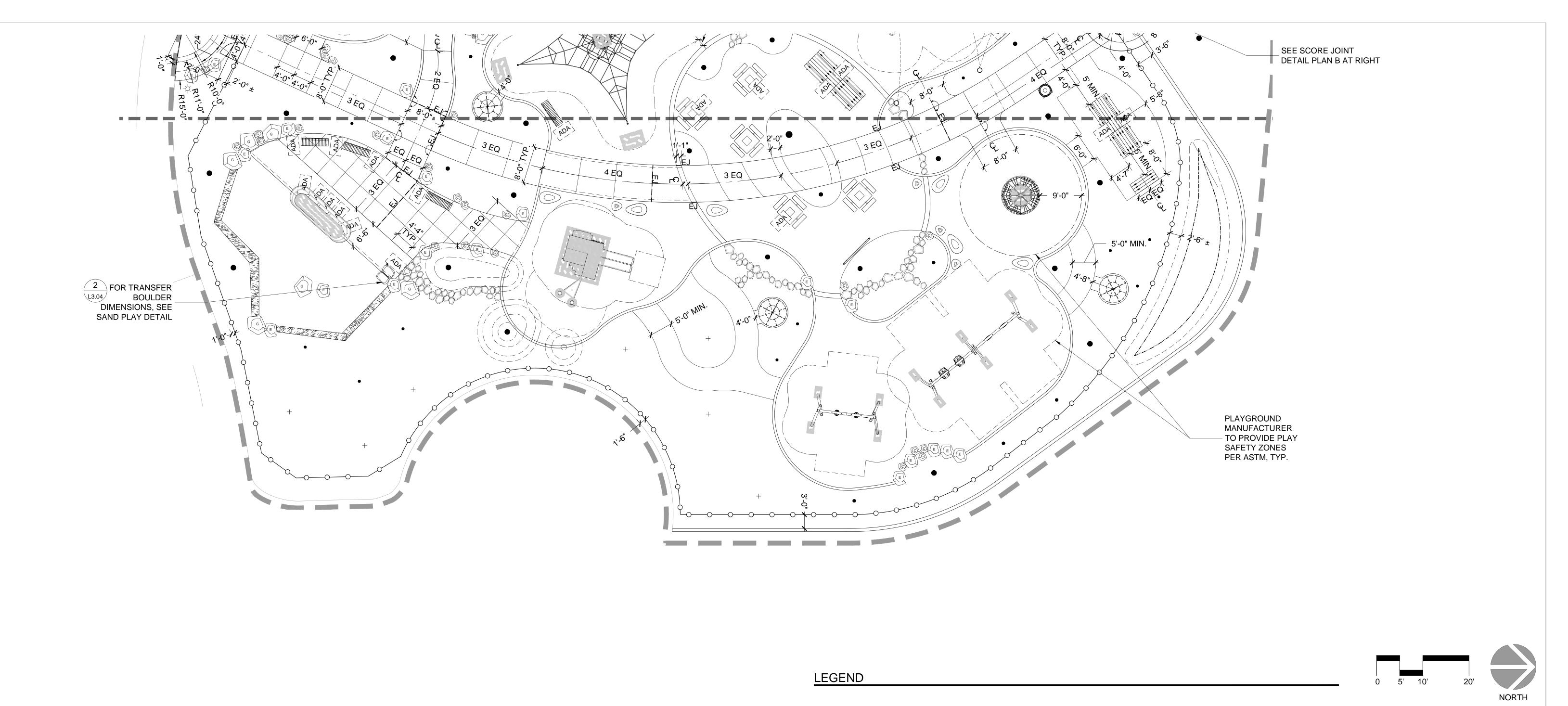


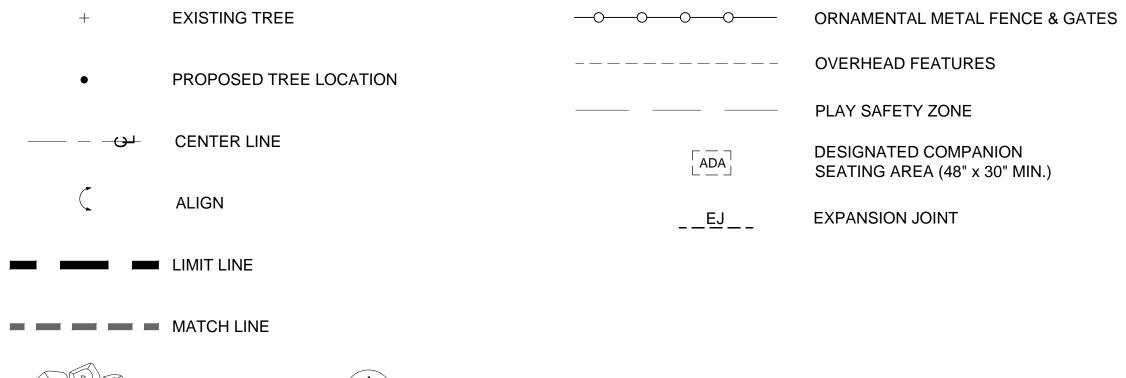


# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO

| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO        |
|-------------------------------------|-----------------------------|
| PUBLIC WORKS INSPECTOR:             | L2.10<br>LAYOUT PLAN - WEST |
| VOICE MAIL:                         | SHEET 23                    |







| Date:       | 03-22-2024 | 1      | RESPONSE TO PERMIT COMMENTS/ BID SET |    |        |       |       | LANDSCAPE               |
|-------------|------------|--------|--------------------------------------|----|--------|-------|-------|-------------------------|
| Scale:      | AS SHOWN   |        |                                      |    |        |       |       | SSA ERIZO               |
| Designed:   | JE         |        |                                      |    |        |       |       | No. 5024                |
| Drawn:      | CH / MB    |        |                                      |    |        |       |       | Signature 10/31/2024    |
| Checked:    | JE / ME    |        |                                      |    |        |       |       | Renewal Date 03/22/2024 |
| Proj. Engr: |            | \<br>\ | REVISIONS                            |    | DESIGN | CITY  | APPR. | Date Date CALLEGRAN     |
| File:       | 30902      |        | KE VISIONS                           | BY | DATE   | APPR. | DATE  | CALITY CALITY           |
|             |            |        |                                      |    |        |       |       |                         |

# IMPROVEMENT PLANS FOR ALL-ING

FLAT-TOPPED & 1 1 2 L3.05 L3.04

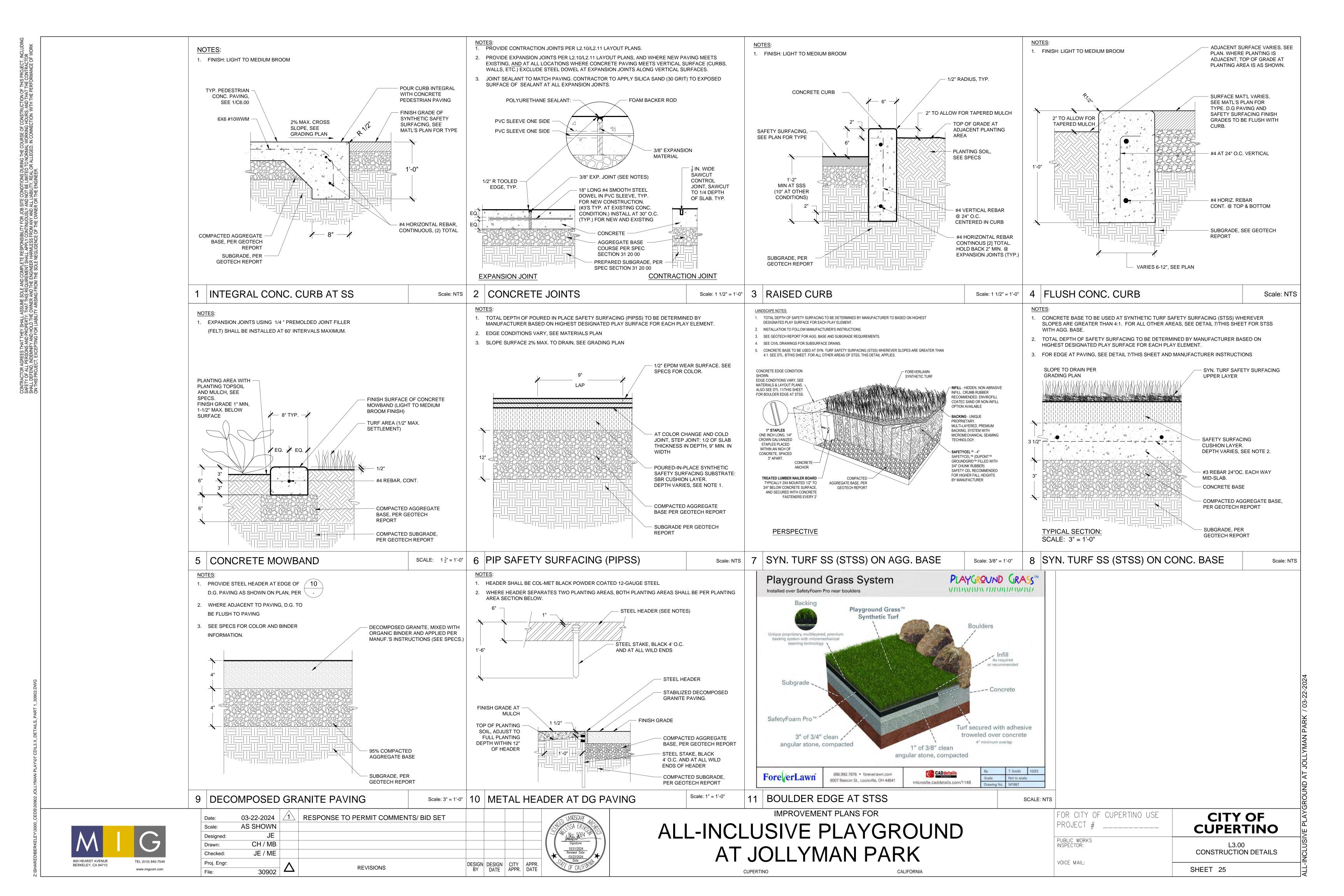
STEPPING STONES (AT GRADE)

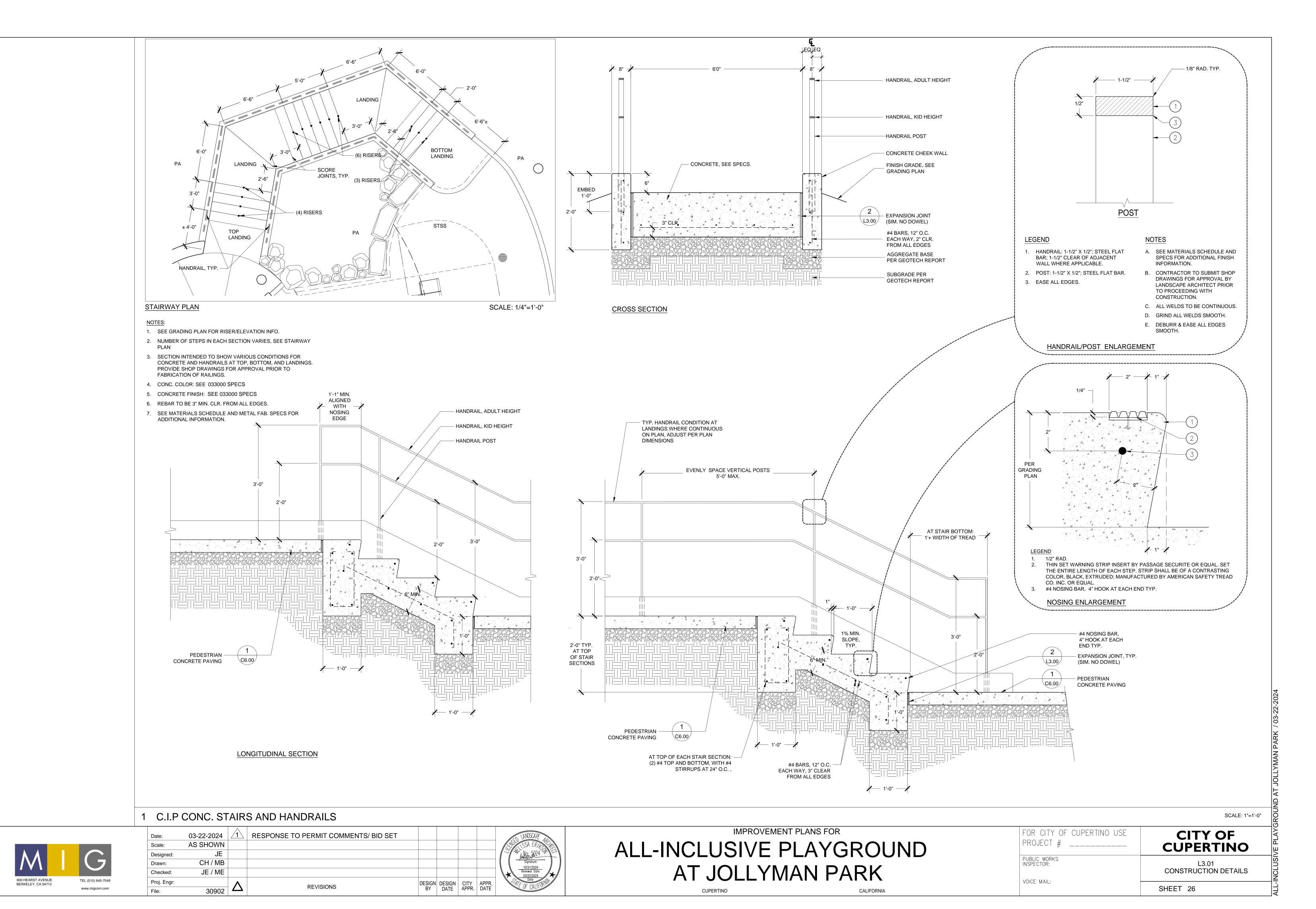
(3)

L3.05

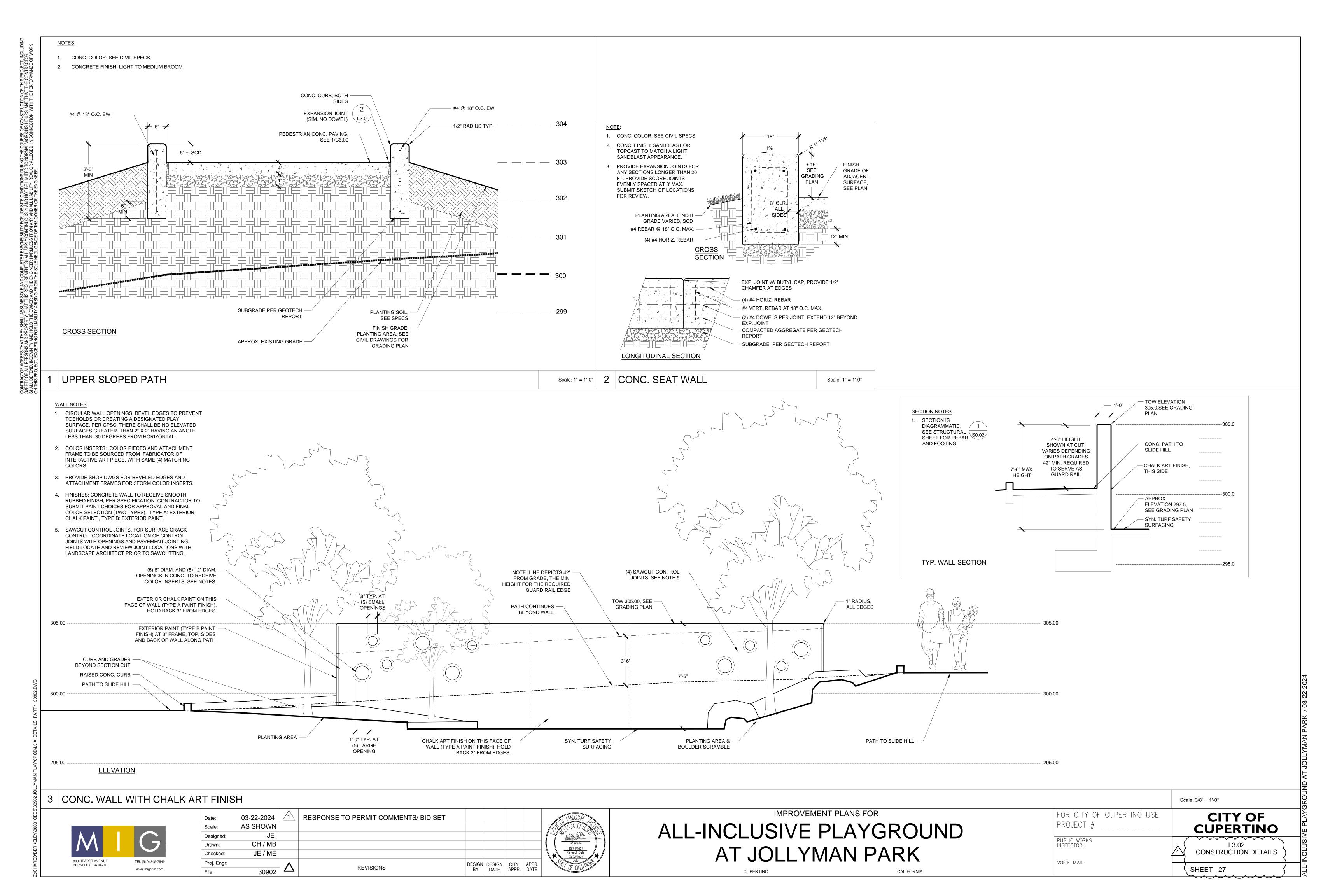
| ICLUSIVE F | PLAYGROUND |  |
|------------|------------|--|
| AT JOLLYM  | 1AN PARK   |  |
| CUPERTINO  | CALIFORNIA |  |

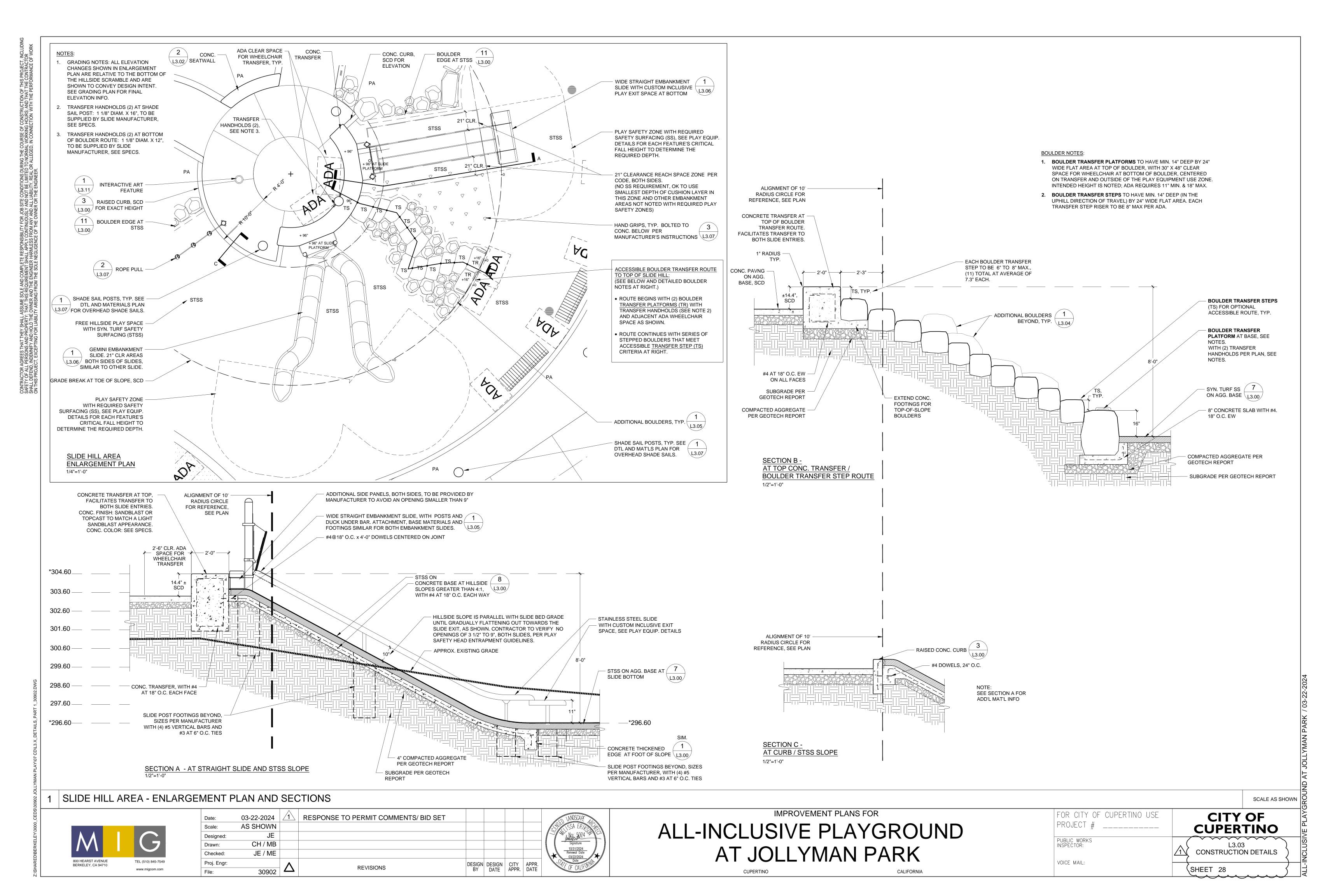
| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO        |
|-------------------------------------|-----------------------------|
| PUBLIC WORKS<br>INSPECTOR:          | L2.11<br>LAYOUT PLAN - EAST |
| VOICE MAIL:                         | SHEET 24                    |

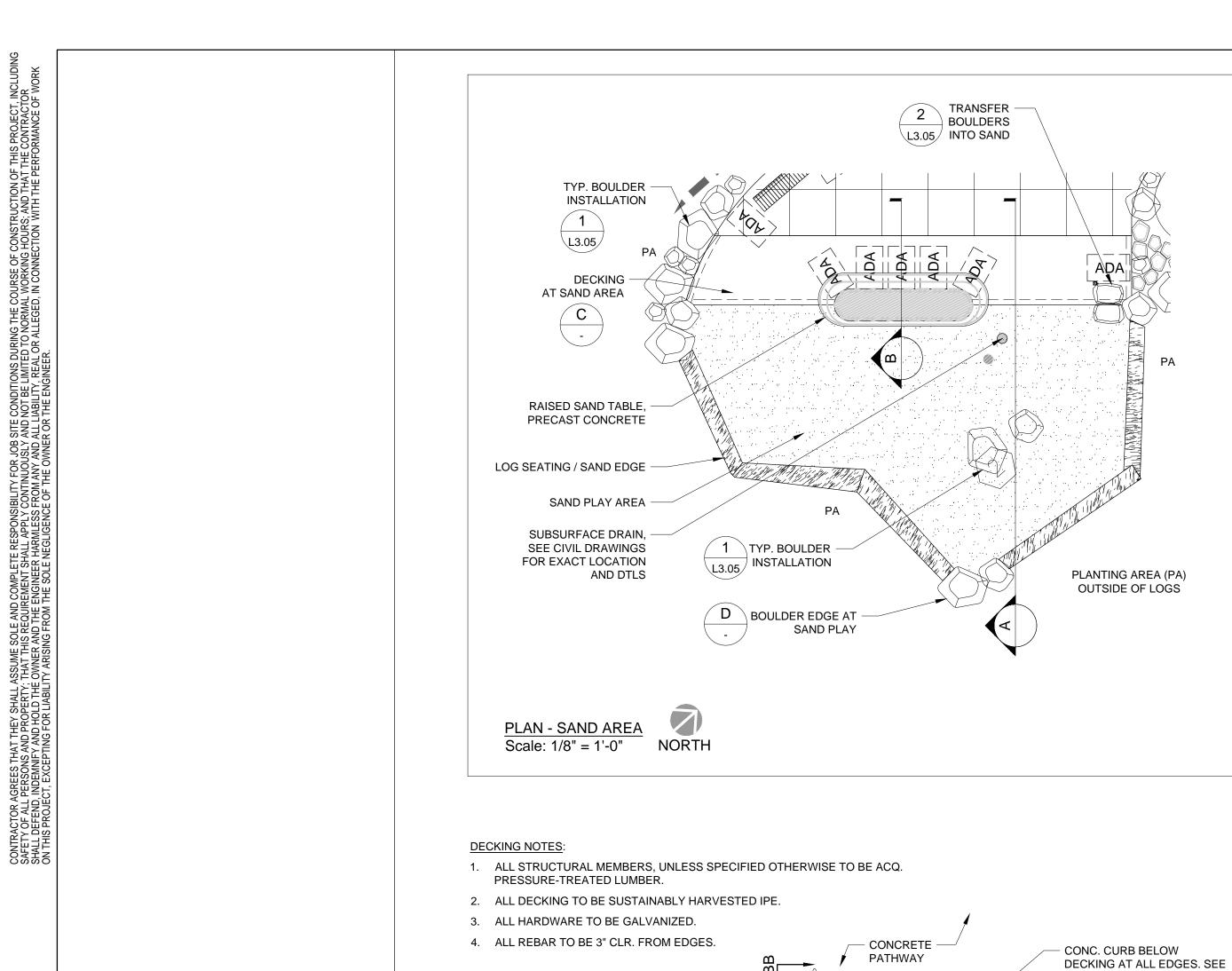


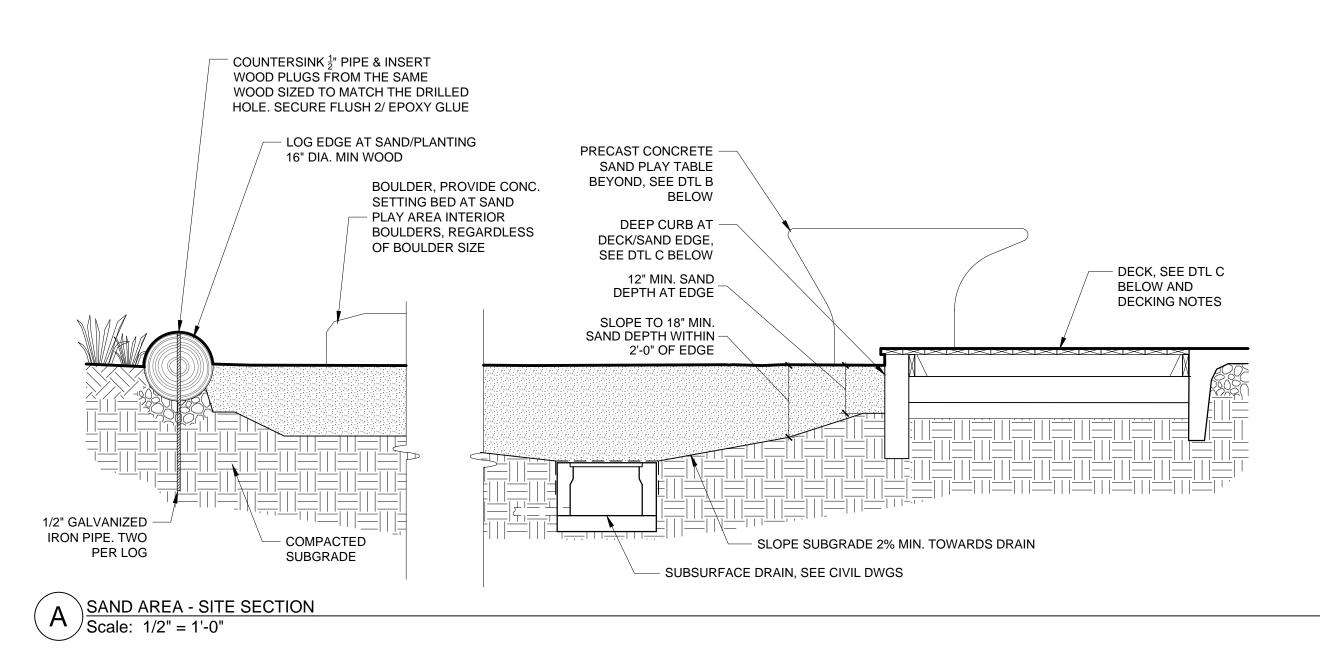


CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INC SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.







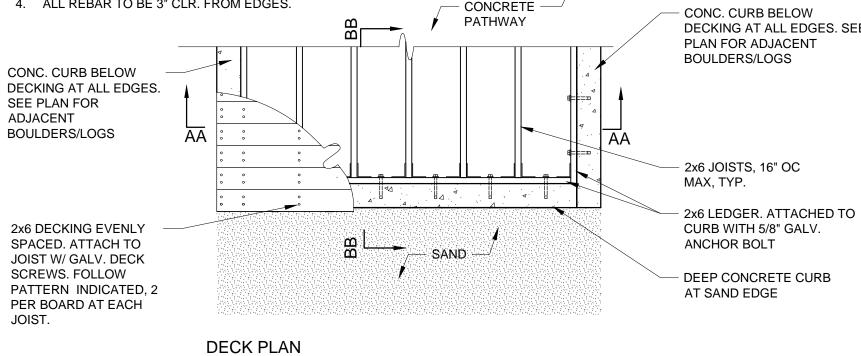


#### LOG NOTES:

- 1. CONTRACTOR TO PREP WOOD BY REMOVING BARK. CONTRACTOR TO SAND TOP AND PROVIDE CHAMFER AT EDGE FOR INFORMAL SEATING OPTION. LANDSCAPE ARCHITECT SHALL APPROVE FINISH.
- 2. TREAT ALL PEELED LOG WOOD ELEMENTS WITH TIMBER PRO UV INTERNAL WOOD STABILIZER PER MANUFACTURER'S SPECIFICATIONS. Contact Info: Timber Pro UV (USA) 2232 E. Burnside Ave., Portland, OR, 97214, http://timberprocoatings.com/, (510 232-1705)

#### **BOULDER NOTES**:

- 1. FLAT BOULDERS FOR TRANSFERRING TO SAND SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
- 2. BOULDERS SHALL BE ROUNDED FIELD STONE, PER SPECS. SOLID, NON-CRUMBLING ROCK, FREE OF SHARP CORNERS, OPEN CRACKS, OR HOLES. SEE TYP. BOULDER INSTALLATION DTL. FOR MORE INFO.
- 3. FLAT BOULDERS SHALL BE SET CLOSELY TOGETHER AND FIRMLY INTO THE CONCRETE SETTING BED SO THAT THEY WILL NOT ROLL, ROTATE, OR SETTLE.



2x6 LEDGER

5/8" ANCHOR BOLT, GALV (TYP) @ 32"

GUSSET ANGLES OR JOIST HANGER

(GALV) SECURED BY MANUFACTURER'S

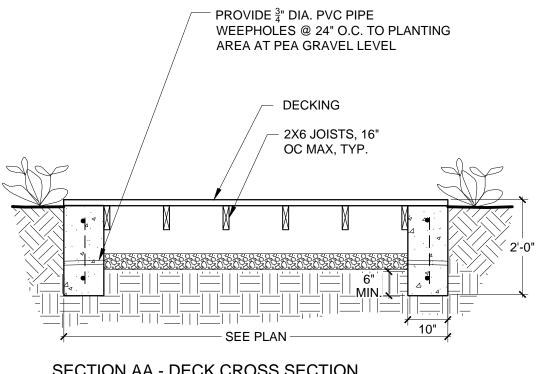
2x6 JOIST, CONT (TYP) @ 16" O.C. MAX

2'-7 1/2" AT

EDGE

O.C. WITH 4" EMBEDMENT

RECOMMENDATIONS



SECTION AA - DECK CROSS SECTION

WITH ADJACENT PAVING

WITH 4" EMBEDMENT

RECOMMENDATIONS

PEA GRAVEL

SECTION BB: DEEP CURB & DECK

ATTACHMENT AT CONCRETE PAVING

TOP AND BOTTOM

2x6 LEDGER

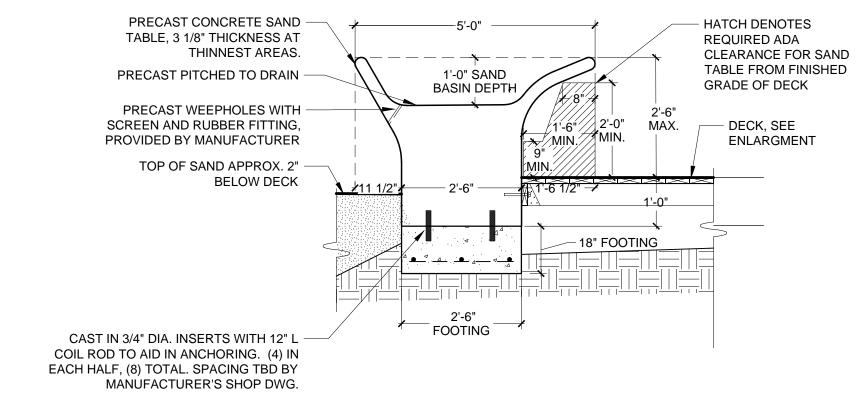
2 X 6 DECKING, TYP. SURFACE TO BE FLUSH

- 5/8" ANCHOR BOLT, GALV (TYP) @ 32" O.C.

GUSSET ANGLES OR JOIST HANGER (GALV)

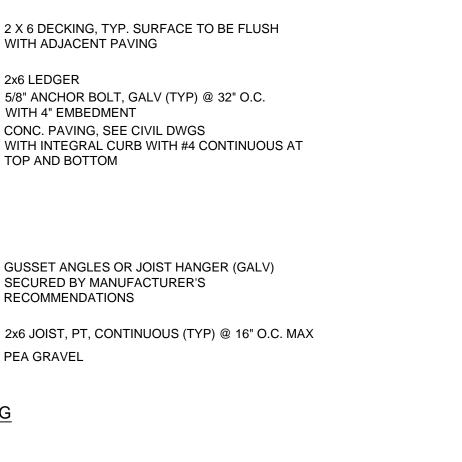
CONC. PAVING, SEE CIVIL DWGS

SECURED BY MANUFACTURER'S



#### SAND TABLE NOTES:

- 1. SAND TABLE TO BE PRECAST CONCRETE, SEE
- 2. SAND TABLE MUST MEET ACCESSIBILITY REQUIREMENTS TO ALLOW FOR FORWARD FACING WHEELCHAIR APPROACH, SEE HATCHED AREA& NOTE ON SECTION.
- 3. MANUFACTURER TO SUBMIT FINAL SHOP DRAWINGS FOR APPROVAL BY LANDSCAPE
- HALVES FOR EASIER PLACEMENT ON SITE. MANUFACTURER TO PROVIDE NOTCHES TO AID IN PLACEMENT BY FORKLIFT.
- 5. SEE MATERIALS AND LAYOUT PLANS FOR LOCATION. CONTRACTOR TO VERIFY EXACT PLACEMENT OF FOOTING BASED ON FINAL SHOP DWGS.



SAND AREA - SAND PLAY TABLE SECTION Scale: 1/2" = 1'-0"

> - FINISH GRADE OF ADJ. SURFACING (SEE PLAN) 1. DTL SHOWS RELATIONSHIP OF BOULDER TO SAND PLAY AREA. SEE TYP. BOULDER INSTALLATION DTL L3.05 FOR ADD'L INSTALL REQUIREMENTS. 2. SEE MAT'LS SCHEDULE & STONE SPECS FOR **BOULDER INFORMATION** FOR BOULDERS LESS THAN 2' DIAM., PROVIDE CONCRETE SETTING BED COMPACTED TO 95% RELATIVE COMPACTION

BOULDER EDGE AT SAND Scale: 1/2" = 1'-0"

CONCRETE CURB AT SAND -

#4 HORIZ. REBAR CONT. @ TOP,

MIDDLE & BOTTOM

#4 AT 24" O.C. VERTICAL

PROVIDE 3/4" DIA. PVC PIPE

AREA AT PEA GRAVEL LEVEL

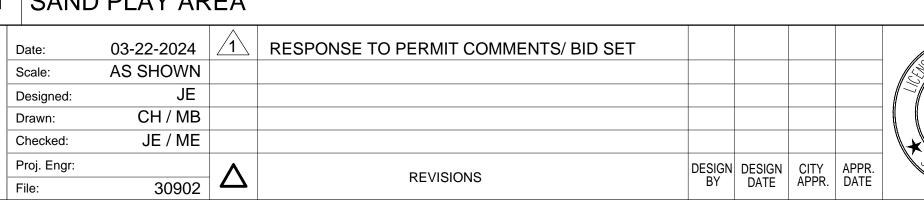
C DECKING AT SAND AREA Scale: 1/2" = 1'-0"

COMPACTED SUBGRADE -

WEEPHOLES @ 24" O.C. TO SAND

## SAND PLAY AREA

800 HEARST AVENUE



SECTION BB: DEEP CURB &

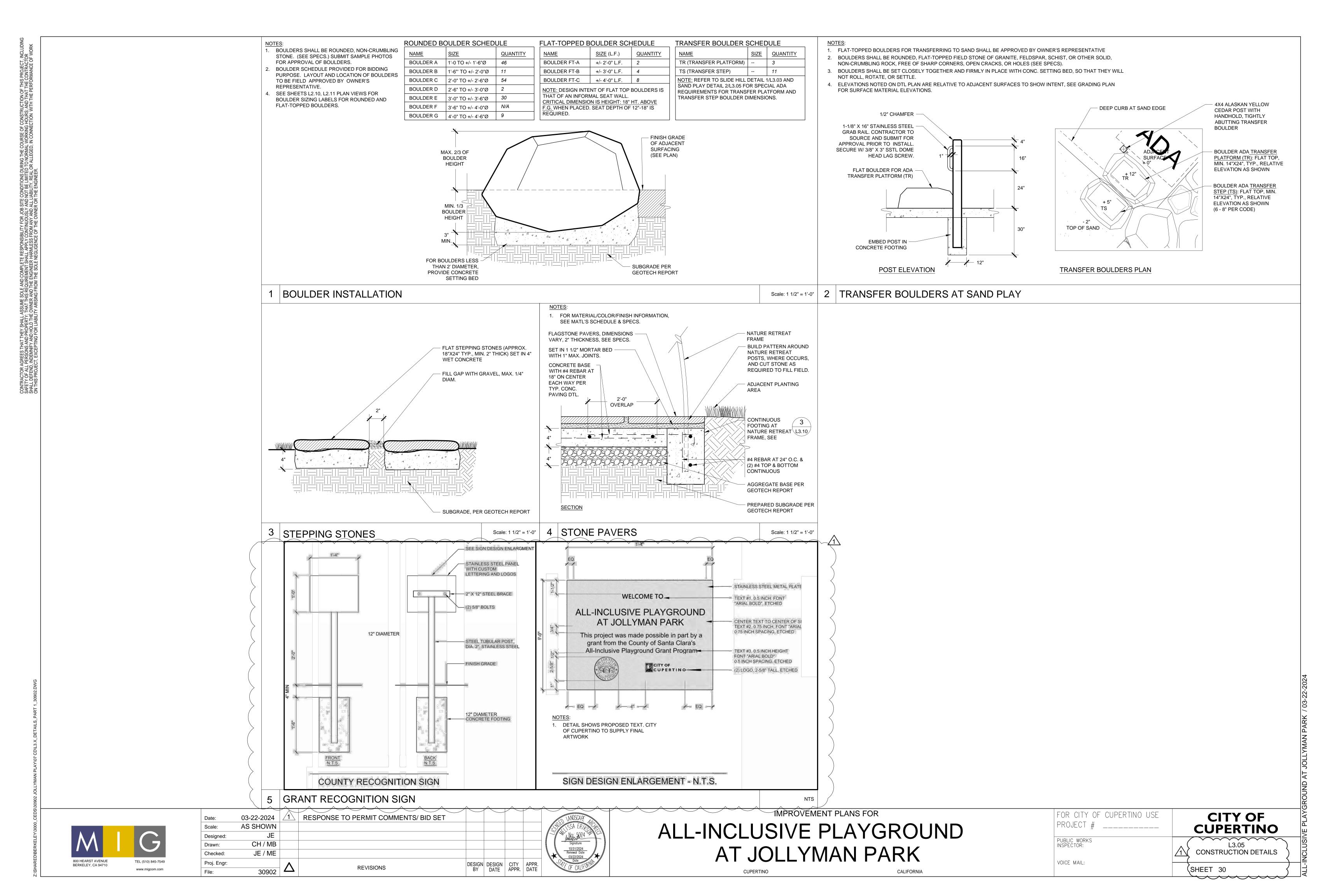
DECK ATTACHMENT AT SAND

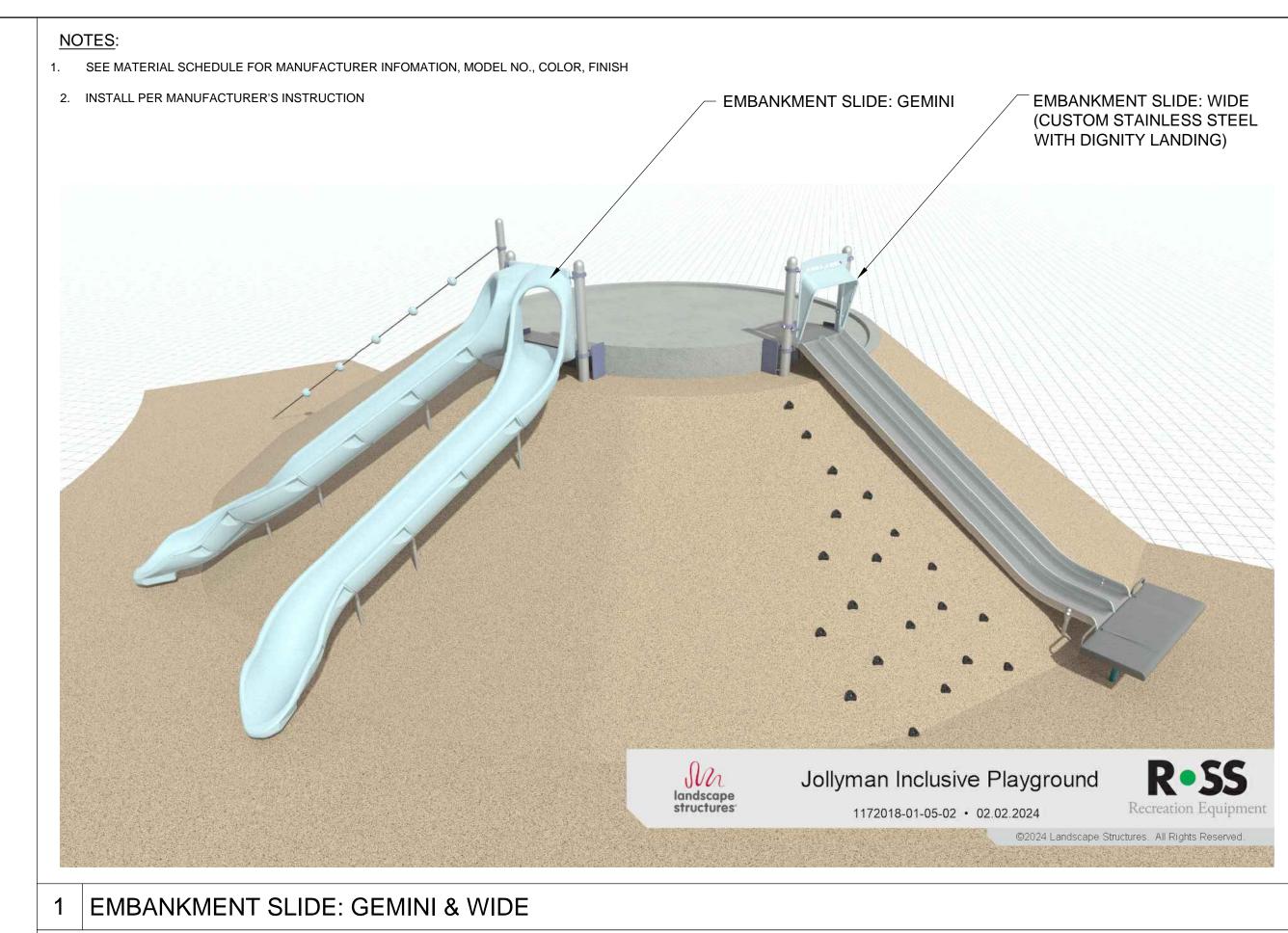
IMPROVEMENT PLANS FOR

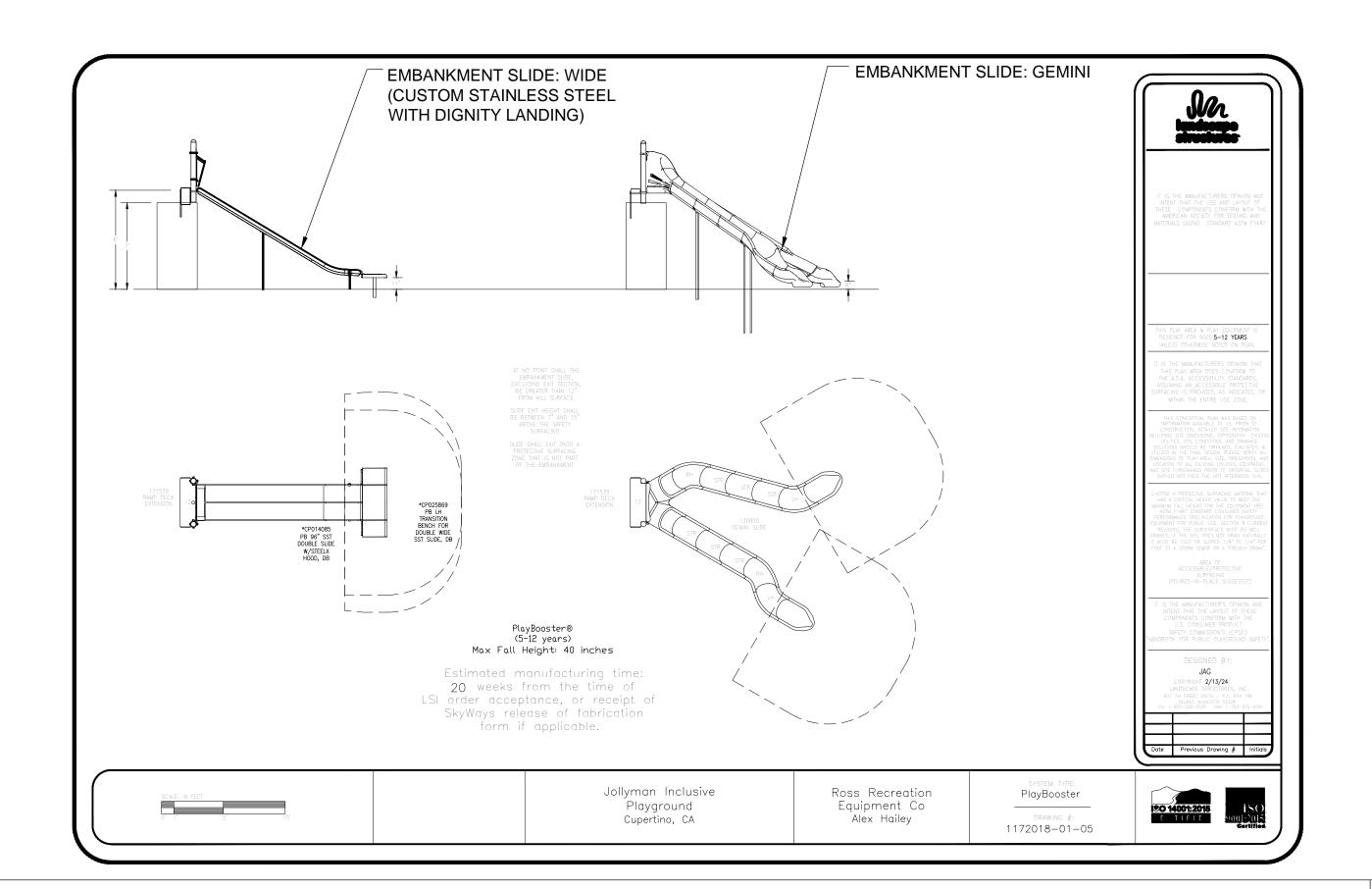
# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

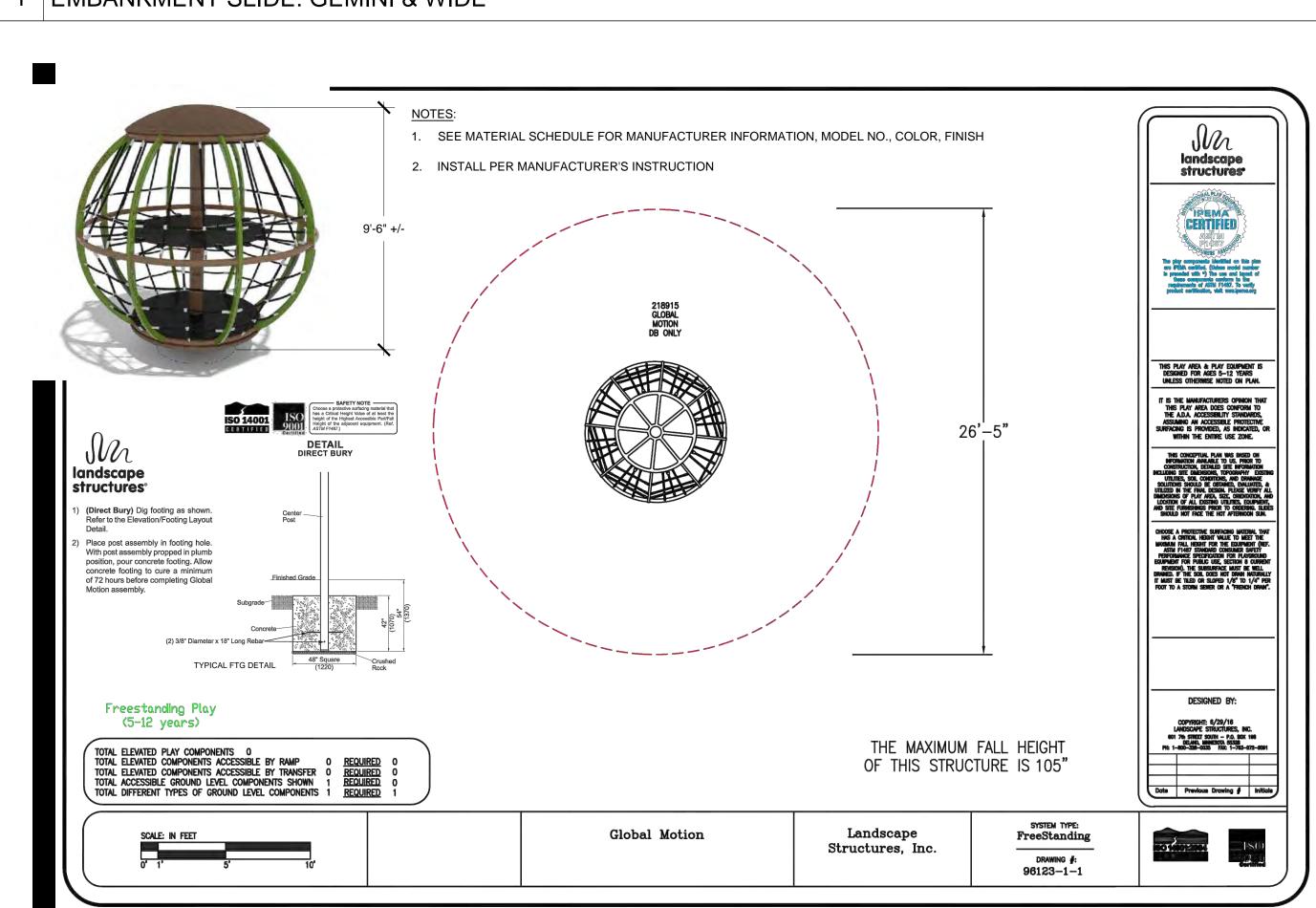
Scale: 1/2" = 1'-0" FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** PUBLIC WORKS INSPECTOR: L3.04 **CONSTRUCTION DETAILS** VOICE MAIL:

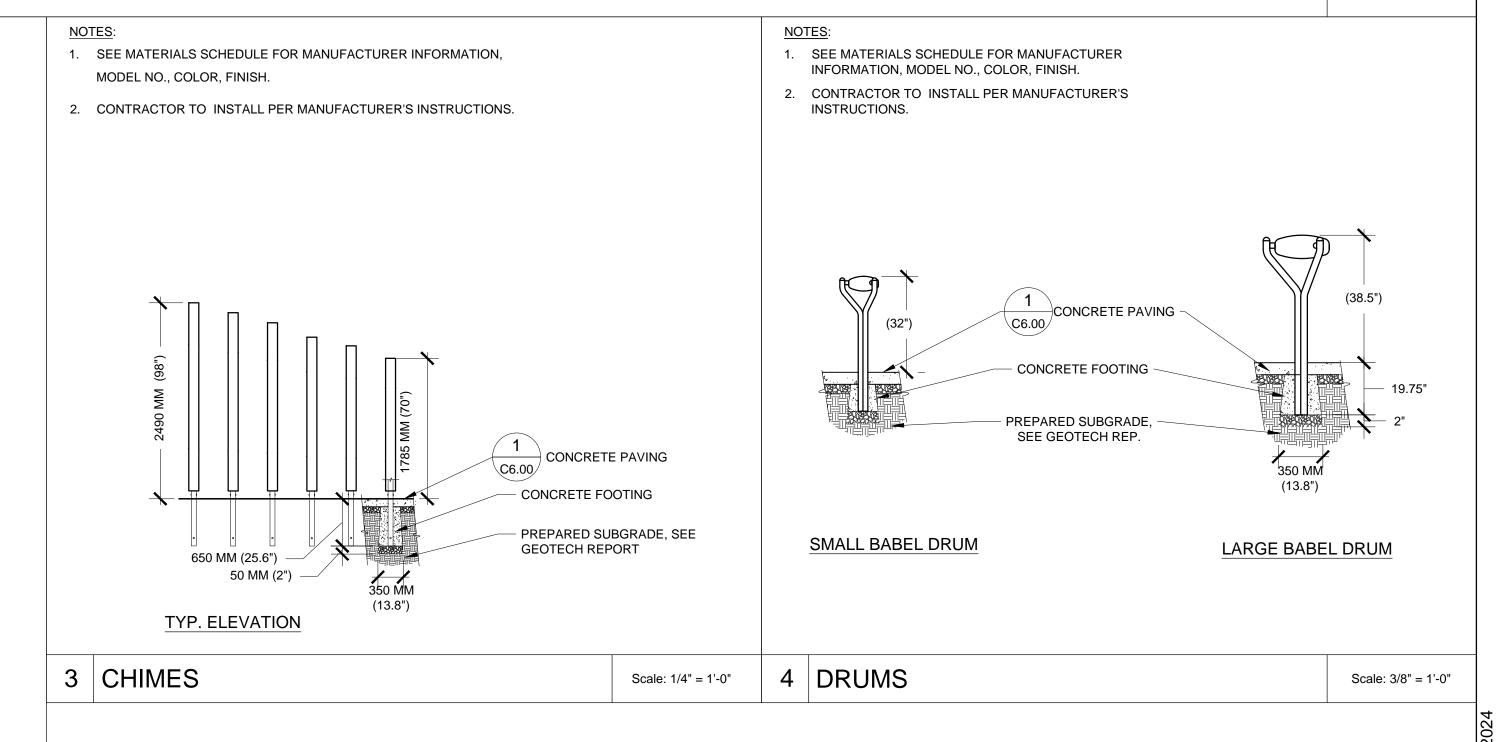
SHEET 29  $\overline{\phantom{a}}$ 











2 GROUP SPINNER

Designed: 800 HEARST AVENUE

CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INC SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF M ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

03-22-2024 RESPONSE TO PERMIT COMMENTS/ BID SET **AS SHOWN** CH / MB JE / ME DESIGN DESIGN CITY APPR. DATE 30902 **REVISIONS** 

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** 

**CONSTRUCTION DETAILS** SHEET 31

DESIGN DESIGN CITY APPR. DATE

800 HEARST AVENUE

30902 \( \triangle \)

**REVISIONS** 

Skyways by Landscape Structures Inc 8131 Forney Rd. Dallas TX, 75227 playlsi.com

Sample Joined Sail Foundations

Scale: 1" = 1'-0"

C25/30 (B25) fck,cube = 30 N/mm<sup>2</sup>

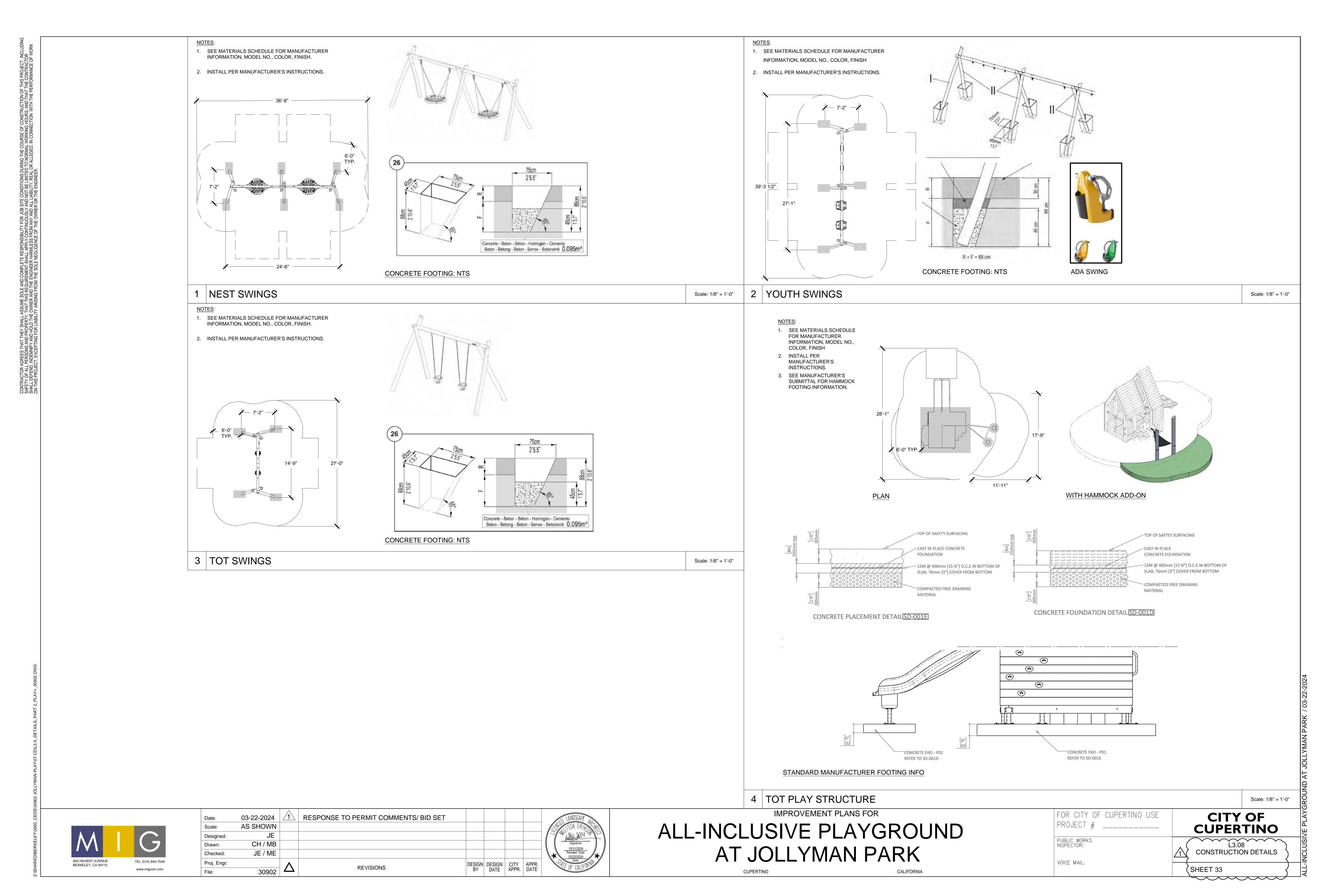
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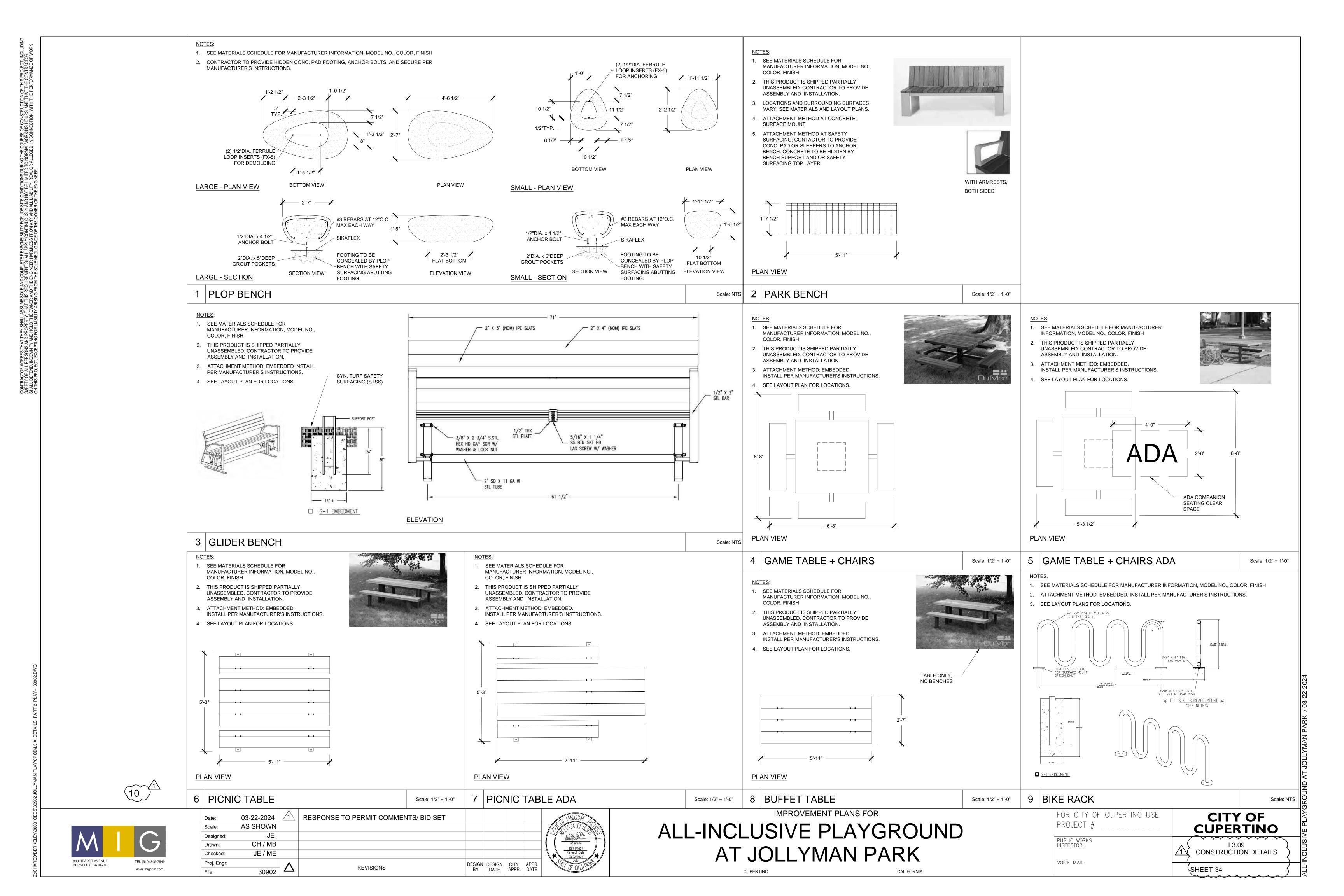
**CUPERTINO** 

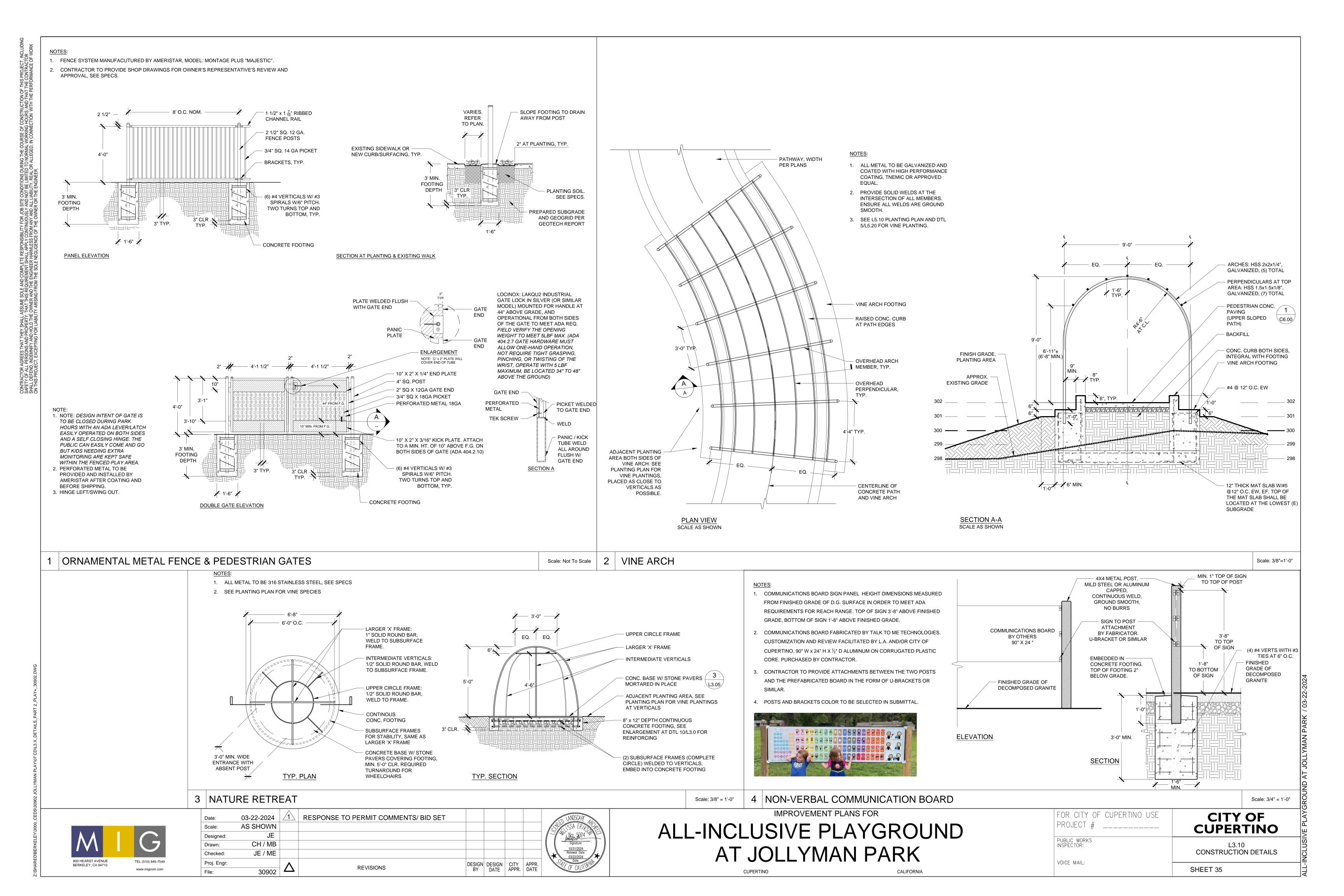
**CONSTRUCTION DETAILS** 

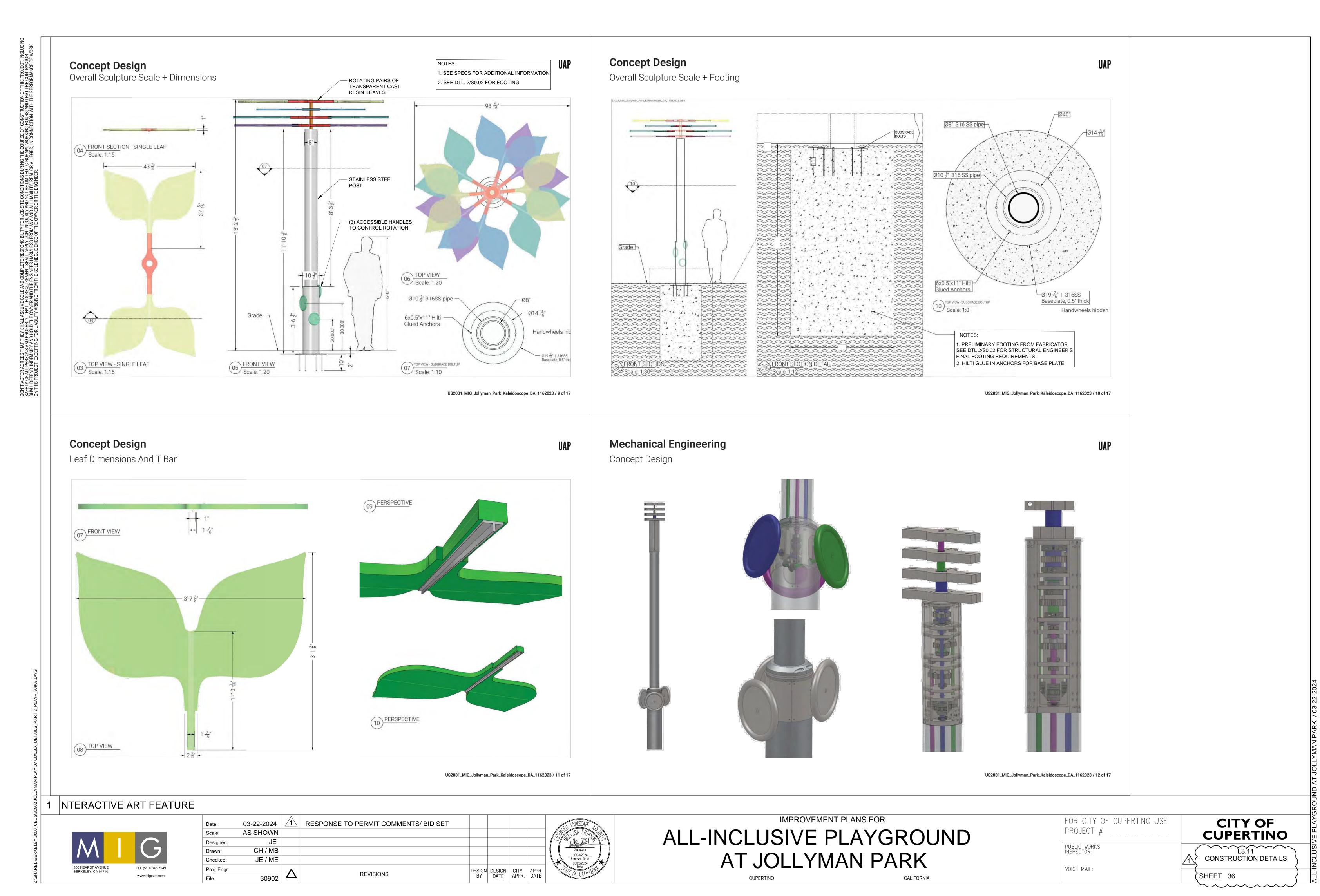
SHEET 32

VOICE MAIL:









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| LANDS     | CAPE IF                            | RRIGATION           | N EQUIPMEN                                        | NT LEGEND                                                                                    | , COI      | NTINU      | ED                                                                                          |        |                 |         |              |             |          |          |
|-----------|------------------------------------|---------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------|------------|------------|---------------------------------------------------------------------------------------------|--------|-----------------|---------|--------------|-------------|----------|----------|
| OVERHEA   | D IRRIGAT                          | ION EQUIPMEI        | NT- ROTORS                                        |                                                                                              |            |            |                                                                                             |        |                 |         |              |             |          |          |
| SYMBOL    | MFG'R MODEL #  (OR APPROVED EQUAL) |                     | DESC                                              | DESCRIPTION                                                                                  |            |            | OPER                                                                                        | R. PSI | RADIUS F        | EET     |              | FLOW<br>GPM |          | DETAIL   |
| 12        | RAIN BIRD                          | 6504-PC-SS-12       |                                                   | R WITH 4-INCH POP-UP<br>EEL RISER (TURF)                                                     |            | 12         | 6                                                                                           | 0      | 57'             |         |              | 12.2        |          |          |
| 6         | RAIN BIRD                          | 6504-FC-SS-06       |                                                   | FULL-CIRCLE ROTOR WITH 4-INCH POP-UP<br>STAINLESS STEEL RISER (TURF)                         |            |            | 6                                                                                           | 0      | 47'             |         | 6.0          |             | 10/L4.51 |          |
| OVERHEAD  | IRRIGATION                         | EQUIPMENT - A       | DJUSTABLE ARC SF                                  | PRAY                                                                                         | - '        |            |                                                                                             |        |                 |         |              |             |          |          |
| SYMBOL    | MFG'R<br>(OR APPR                  | MODEL # OVED EQUAL) | DESCRIPTION                                       |                                                                                              |            | NOZZLE     | OPERAT<br>PSI                                                                               | ΓING   | IG RADIUS       |         | FLOW<br>180° | · ·         | 1        | DETAIL   |
| (8V)      |                                    |                     |                                                   |                                                                                              | H          |            | 30                                                                                          |        | 6'-8'           | 0.29    | 0.59         | 0.88        | 1.17     |          |
| (10V)     |                                    | RD-06-S             | 30 PSI PRESSURE R                                 | 30 PSI PRESSURE REGULATED BODY WITH DJUSTABLE ARC NOZZLE, AND FACTORY INSTALLED CHECK VALVE. |            | HE-VAN-10  | 30                                                                                          |        | 8'-10'          | 0.45    | 0.89         | 1.34        | 1.78     |          |
| (12V)     | RAIN BIRD                          | -P30-F              | 30-F ADJUSTABLE ARC NOZZLE, AND FACTORY INSTALLED |                                                                                              |            | HE-VAN-12  | 30                                                                                          |        | 10'-12'         | 0.59    | 1.18         | 1.77        | 2.37     | 25/L4.54 |
| (15V)     |                                    |                     |                                                   | HE-VAN-15 30                                                                                 | 30         |            | 12'-15'                                                                                     | 0.93   | 1.85            | 2.78    | 3.70         |             |          |          |
| TREE FLOC | D BUBBLER                          |                     |                                                   |                                                                                              |            |            |                                                                                             |        |                 |         |              |             |          |          |
| SYMBOL    | MFG'R<br>(OR AP                    | MODEL #             | NOZZLE FLOW                                       | OPERATING PRESSURE                                                                           | RADIU      |            | . FLOW<br>TREE                                                                              |        | NC              | DTE     |              |             |          | DETAIL   |
| •         | RAIN BIRD                          | RWS-B-C-1402        | 0.5 GPM                                           | 30 PSI                                                                                       | N/A 1.0 GF |            | CONTRACTOR TO INSTALL (2) ROOT WATERING SYSTEMS PER TREE ON OPPOSITE SIDES OF THE ROOTBALL. |        |                 | 9/L4.51 |              |             |          |          |
| VINE FLOO | D BUBBLER                          | ,                   |                                                   | ,                                                                                            |            |            | ,                                                                                           |        |                 |         |              |             | <u>'</u> |          |
|           | MFG'R                              | MODEL #             |                                                   |                                                                                              |            | TOTAL FLOW |                                                                                             |        |                 |         |              |             |          |          |
| SYMBOL    | (OR AP                             | PROVED EQUAL)       | NOZZLE FLOW                                       | OPERATING PRESSURE                                                                           | RADIU      | C.         | VINE                                                                                        | I      |                 | OTE     |              |             |          | DETAIL   |
|           | RAIN BIRD                          | 1401                | 0.25 GPM                                          | 30 PSI                                                                                       | N/A        | 0.25       | ו אנויי                                                                                     |        | OR TO INSTALL I |         |              |             |          | N/A      |
| SUBSURFA  | CE DRIP IRR                        | RIGATION EQUIP      | MENT                                              |                                                                                              | •          | ,          | ,                                                                                           |        |                 |         |              |             |          |          |
| SYMBOL    | MFG'R                              | MODEL#              | DESCR                                             | DESCRIPTION O                                                                                |            | EMITTER FL | OW EMI                                                                                      | ITTER  | MAX. ALLOWE     | D       | BU           | JRIAL       |          | DETAIL   |

|        | (OR APPF  | ROVED EQUAL) |                                                                                                                                                              |               | (STA) STAGING TIGEN. STAGING                                                                                                     |                  |                   | 52       |                        |
|--------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|----------|------------------------|
|        | RAIN BIRD | XFS-CV-06-12 | INLINE EMITTER DRIPLINE W/ PRESSURE<br>COMPENSATING, SELF-FLUSHING EMITTERS W/<br>BUILT IN CHECK VALVE AND COPPER CHIP. USE<br>WITH XF INSERT BARB FITTINGS. | 30            | 0.60                                                                                                                             | 12-INCHES        | 12-INCHES         | 6-INCHES | 18/L4.52<br>19-21/L4.5 |
| SYMBOL | MFG'R     | MODEL#       | DESCRIPTION                                                                                                                                                  |               |                                                                                                                                  | REMAR            | ove               |          | DETAIL                 |
| SYMBOL | (OR APPR  | ROVED EQUAL) | DESCRIPTION                                                                                                                                                  |               |                                                                                                                                  | DETAIL           |                   |          |                        |
| (F)    | NIBCO     | 4660-S       | PVC MANUAL FLUSH BALL VALVE                                                                                                                                  |               | JMB TO PVC EXHAUST HEADER. HEADER SIZE TO MATCH SUPPLY HEADER<br>TO PLAN. REFER TO GENERAL IRRIGATION NOTES FOR ADDITIONAL<br>N. |                  |                   |          | 16/L4.52               |
|        | RAIN BIRD | OPERIND      | SYSTEM OPERATION INDICATOR                                                                                                                                   | PLUMB TO D    | RIP PVC LATERAL                                                                                                                  | FEED LINE. ONE F | PER DRIP ZONE.    |          | 17/L4.52               |
| A      | RAIN BIRD | ARV050       | AIR VACUUM RELIEF VALVE                                                                                                                                      | 1/2" SIZE. PL | UMB TO DRIP TUB                                                                                                                  | ING AT HIGH POIN | TS OF PLANTING AF | REAS.    | 22/L4.53               |
|        |           |              |                                                                                                                                                              |               |                                                                                                                                  |                  |                   |          |                        |

| CONDUIT/PIPE SLEEVE SIZING CHART (FOR REFERENCE USE ONLY)            |                                           |  |  |  |
|----------------------------------------------------------------------|-------------------------------------------|--|--|--|
| SCHEDULE 40 PVC PIPE SLEEVE<br>SIZE                                  | MAXIMUM IRRIGATION PIPE/WIRE CONDUIT SIZE |  |  |  |
| 2 - INCHES                                                           | 1 - INCH                                  |  |  |  |
| 2-1/2 - INCHES                                                       | 1-1/4 - INCH                              |  |  |  |
| 3 - INCHES                                                           | 1-1/2 - INCH                              |  |  |  |
| 4 - INCHES                                                           | 2 - INCHES                                |  |  |  |
| 6 - INCHES                                                           | 3 - INCHES                                |  |  |  |
| SPARE SLEEVE SIZE TO MATCH LARGEST SLEEVE AT SAME CROSSING LOCATION. |                                           |  |  |  |

### PRESSURE MAINLINE PIPE SIZING CHART CLASS 315 IPS U.S. PVC PLASTIC PIPE (FOR REFERENCE USE ONLY)

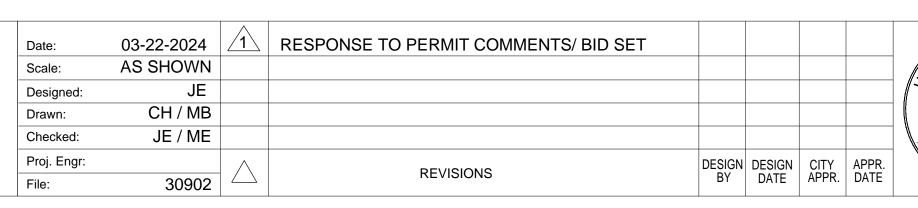
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|-------------------------|----------------------------|--|--|--|
| PIPE SIZE               | MAXIMUM GALLONS PER MINUTE |  |  |  |
| 3/4 -INCH               | 0 - 6                      |  |  |  |
| 1 - INCH                | 7 - 12                     |  |  |  |
| 1-1/4 - INCHES          | 13 - 20                    |  |  |  |
| 1-1/2 - INCHES          | 21 - 30                    |  |  |  |
| 2 - INCHES              | 31 - 50                    |  |  |  |
| 2-1/2 - INCHES          | 51 - 70                    |  |  |  |
| 3 - INCHES              | 71 - 110                   |  |  |  |

### NON-PRESSURE LATERAL PIPE SIZING CHART SCHEDULE 40 IPS U.S. PVC PLASTIC PIPE (FOR REFERENCE USE ONLY)

| PIPE SIZE      | MAXIMUM GALLONS PER MINUTE |
|----------------|----------------------------|
| 3/4 -INCH      | 0 - 6                      |
| 1 - INCH       | 7 - 12                     |
| 1-1/4 - INCHES | 13 - 20                    |
| 1-1/2 - INCHES | 21 - 30                    |
| 2 - INCHES     | 31 - 50                    |
| 2-1/2 - INCHES | 51 - 70                    |
| 3 - INCHES     | 71 - 110                   |
|                |                            |

| SYMBOL       | MFG'R                     | MODEL#                                            | DESCRIPTION                                                                           | REMARKS                                                                                                                                                                                            |                                                         |                                                                         |                                                          |                      |
|--------------|---------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|----------------------|
| W            | EXISTING                  | EXISTING                                          | EXISTING 2" WATER METER FOR IRRIGATION                                                |                                                                                                                                                                                                    |                                                         | ECTION TO DOWN                                                          | NSTREAM SIDE                                             | N/A                  |
|              | EXISTING                  | LAIGTING                                          | IRRIGATION POINT OF CONNECTION (P.O.C.) TO                                            | OF WTER METER.  CONNECT TO DISCHARGE SIDE OF EXISTING WATER METER AND                                                                                                                              |                                                         |                                                                         | N/A                                                      |                      |
| **           | WILKINS                   | 975XLSEU                                          | WATER SUPPLY 2" REDUCED PRESSURE BACKFLOW PREVENTER                                   | ROUTE TO IRRIGATION BACKFLOW PREVENTER PER PLAN.  INSTALL DOWNSTREAM FROM THE IRRIGATION P.O.C. WHERE                                                                                              |                                                         |                                                                         |                                                          |                      |
| M            | SUPERIOR                  | 3300150                                           | MASTER CONTROL VALVE (NORMALLY OPEN)                                                  | 1.5" BRASS GLO                                                                                                                                                                                     | BE VALVE. INSTA                                         | H WEATHERGUAI<br>LL PER PLAN AND                                        | DETAIL. WIRE                                             | 23/L4.5              |
| F            | CST                       | FSI-B10-001                                       | FLOW SENSOR                                                                           | 1" BRASS TEE FI                                                                                                                                                                                    | LOW SENSOR. IN                                          | M FLOW REQUIRE<br>STALL PER PLAN A                                      | AND DETAIL.                                              | 24/L4.5              |
| H            |                           |                                                   | MAINLINE ISOLATION GATE VALVE                                                         |                                                                                                                                                                                                    |                                                         | RANGE: 0.8 GPM CONNECTIONS. IN                                          |                                                          |                      |
|              | NIBCO                     | T-113-BHW                                         | (2-1/2-INCH AND SMALLER)  MAINLINE ISOLATION GATE VALVE                               |                                                                                                                                                                                                    | BOX WITH LOCKI                                          | NG COVER. ONNECTIONS AND                                                | SOLIARE NUT                                              | 13/L4.5              |
| ×            | NIBCO                     | F-619-RWS-SON                                     | (3-INCH AND LARGER)                                                                   | INSTALL WITHIN                                                                                                                                                                                     | CONCRETE VALV                                           | VE BOX AND LOCK<br>O, QUARTER TURN                                      | KING COVER.                                              | 14/L4.5              |
| NOT<br>SHOWN | NIBCO                     | T585HP-66-LF                                      | BALL VALVE AT REMOTE CONTROL VALVE (2-INCH AND SMALLER)                               | MATCH SIZE OF REMOTE CONTR                                                                                                                                                                         | ASSOCIATED RE                                           | MOTE CONTROL V                                                          | /ALVE; ONE PER                                           | 5/L4.51              |
| €            | RAIN BIRD                 | 44LRC                                             | QUICK COUPLER VALVE                                                                   | (2) 1-INCH NPT M<br>MATCHING 1-INC                                                                                                                                                                 | MÂLE x 3/4-INCH F<br>CH MALE HOSE X<br>INSTALL WITHIN I | WITH YELLOW TO<br>EMALE KEYS (MO<br>1" FEMALE PIPE H<br>PLASTIC VALVE B | DEL #44-K) AND<br>HOSE SWIVELS                           | 15/L4.5              |
| <b>(c)</b>   | RAIN<br>MASTER            | RME-24-5G                                         | PROPOSED IRRIGATION CONTROLLER                                                        | 24 STATION EAGLE PLUS IRRIGATION CONTROLLER WITH                                                                                                                                                   |                                                         |                                                                         | N UTILITY ROOM<br>VOLT A.C.<br>. CODES.                  | 12/L4.5<br>8/L4.5    |
| •            | RAINBIRD                  | 100-EFB-CP 1"<br>150-EFB-CP 1.5"<br>200-EFB-CP 2" | REMOTE CONTROL VALVE (RCV) FOR ROTOR AND BUBBLER ZONES                                | ,                                                                                                                                                                                                  |                                                         |                                                                         | ND BOLT DOWN<br>ED WITH OTHER<br>ERAL LINE SIZE.         | 6,7/L4.5<br>3,4/L4.5 |
| igoplus      | SUPERIOR/<br>RAIN BIRD    | 3200100NXT- 1"                                    | DRIP REMOTE CONTROL VALVE (DRCV), INLINE FILTER AND PRESSURE REGULATOR FOR DRIP ZONES | BRASS GLOBE VALVE WITH FLOW CONTROL. INSTALL LCRBY100E FILTER AND PSI-H40X-100 PRESSURE REGULATOR. INSTALL WITHIN PLASTIC VALVE BOX AND BOLT DOWN COVER. INSTALL                                   |                                                         |                                                                         | I. INSTALL<br>VER. INSTALL<br>VALVES. SIZE<br>E. WIRE TO | 11,7/L4.<br>3,4/L4.5 |
|              | PW PIPE                   | -                                                 | PRESSURE MAINLINE PIPE                                                                | SIZE AS NOTED ON PLANS. USE CLASS 315 PVC PIPE WITH SCHEDULE 80 SOLVENT WELD FITTINGS FOR MAINLINE 4 INCHES OR LARGER. INSTALL PIPE WITH COPPER TRACE WIRE ABOVE. MAINLINE COVER DEPTH: 24"        |                                                         |                                                                         | 1,2/L4.5                                                 |                      |
|              | PW PIPE                   | -                                                 | PRESSURE MAINLINE PIPE                                                                | SIZE AS NOTED ON PLANS. USE CLASS 315 PVC PIPE WITH SCHEDULE 80 SOLVENT WELD FITTINGS FOR MAINLINE 3 INCHES OR SMALLER. INSTALL PIPE WITH COPPER TRACE WIRE ABOVE. MAINLINE COVER DEPTH: 18"       |                                                         |                                                                         | 1,2/L4.5                                                 |                      |
|              | PW PIPE                   | -                                                 | NON-PRESSURE LATERAL PIPE                                                             | SIZE PER PLAN; SCHEDULE 40 PVC LATERAL LINE PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS, 3/4" MINIMUM SIZE. LATERAL COVER DEPTH 12".                                                           |                                                         |                                                                         | 1,2/L4.5                                                 |                      |
|              | PW PIPE                   | -                                                 | IRRIGATION PIPE/ CONTROL WIRES/ SENSOR<br>WIRE SLEEVE                                 | SCHEDULE 40 PVC. QUANTITIES SHOWN ON PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SIZE AND QUANTITY AS REQUIRED. REFER TO CONDUIT/PIPE SLEEVE SIZING CHART FOR SIZE (THIS SHEET). |                                                         |                                                                         | 2/L4.50                                                  |                      |
| $\otimes$    | EXISTING                  | -                                                 | EXISTING QUICK COUPLING VALVE (RCV) TO REMAIN                                         | FIELD VERIFY EX                                                                                                                                                                                    | XACT LOCATION.                                          | PROTECT IN PLA                                                          | CE AS DIRECTED                                           |                      |
| $\otimes$    | EXISTING                  | -                                                 | EXISTING QUICK COUPLING VALVE (RCV) TO REMOVE                                         | FIELD VERIFY EXPLANS.                                                                                                                                                                              | XACT LOCATION.                                          | REMOVE AS DIRE                                                          | CTED ON                                                  |                      |
| $\oplus$     | EXISTING                  | -                                                 | EXISTING REMOTE CONTROL VALVE (RCV) TO REMAIN                                         | FIELD VERIFY EXACT LOCATION AND SIZE. PROTECT IN PLACE AS DIRECTED ON PLANS.                                                                                                                       |                                                         | CT IN PLACE AS                                                          |                                                          |                      |
| $\bigoplus$  | EXISTING                  | -                                                 | EXISTING REMOTE CONTROL VALVE (RCV) TO                                                | FIELD VERIFY EXACT LOCATION AND SIZE. REMOVE AS DIRECTED                                                                                                                                           |                                                         |                                                                         |                                                          |                      |
|              | EXISTING TO               | -                                                 | EXISTING PRESSURE MAINLINE PIPE AND                                                   | ON PLANS. SIZE PER PLAN. FIELD VERIFY EXACT LOCATION AND SIZE. CUT                                                                                                                                 |                                                         | N/A                                                                     |                                                          |                      |
|              | REMAIN<br>EXISTING TO     | _                                                 | CONTROL WIRES TO REMAIN  EXISTING PRESSURE MAINLINE PIPE AND                          | REMOVE WHERE                                                                                                                                                                                       | E INDICATED ON I                                        | ANS. PROTECT IN<br>PLANS. FIELD VEF                                     |                                                          |                      |
|              | REMOVE EXISTING TO        | -                                                 | CONTROL WIRES TO BE REMOVED  EXISTING NON-PRESSURE LATERAL PIPE TO                    | LOCATION OF EACH PIPE.  SIZE PER PLAN. FIELD VERIFY EXACT LOCATION AND SIZE. CUT                                                                                                                   |                                                         |                                                                         |                                                          |                      |
|              | REMAIN EXISTING TO REMOVE | -                                                 | REMAIN  EXISTING NON-PRESSURE LATERAL PIPE TO BE REMOVED                              | AND CONNECT                                                                                                                                                                                        | AS NOTED ON PLA<br>E INDICATED ON I                     | ANS. PROTECT IN<br>PLANS. FIELD VEF                                     | PLACE.                                                   |                      |
| (ISTING T    | URF ROTORS                | S                                                 |                                                                                       |                                                                                                                                                                                                    |                                                         |                                                                         |                                                          |                      |
| SYMBOL       | MFG'R<br>(OR APPR         | MODEL #<br>OVED EQUAL)                            | DESCRIPTION                                                                           | NOZZLE                                                                                                                                                                                             | OPERATING<br>PSI                                        | RADIUS<br>FEET                                                          | FLOW<br>GPM                                              | DETAII               |
| EX           | RAIN BIRD                 | 5604-SS                                           | EXISTING POP-UP ROTOR TO REMAIN. FIELD VERIFY EXACT LOCATION.                         | FIELD VERIFY                                                                                                                                                                                       | -                                                       | FIELD VERIFY                                                            | FIELD VERIFY                                             | N/A                  |
|              | RAIN BIRD                 | 5604-SS                                           | EXISTING POP-UP ROTOR TO BE REMOVED. FIELD                                            | FIELD VERIFY                                                                                                                                                                                       | _                                                       | FIELD VERIFY                                                            | FIELD VERIFY                                             | N/A                  |





IMPROVEMENT PLANS FOR

LANDSCAPE IRRIGATION EQUIPMENT LEGEND

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

| OR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO       |
|------------------------------------|----------------------------|
| PUBLIC WORKS<br>NSPECTOR:          | L4.00<br>IRRIGATION LEGEND |

VOICE MAIL: SHEET 37

### **EXISTING UTILITIES NOTES**

- 1. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES. STRUCTURES. AND SERVICES WHICH MAY AFFECT CONTRACTOR'S OPERATION DURING CONSTRUCTION BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- 2. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE. WATER, GAS, OIL, SEWER, ETC., SO AS TO SAFELY PROTECT ALL UTILITIES, PERSONNEL, AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION HEREIN.
- 3. WHERE IT IS NECESSARY TO EXCAVATE IN AREAS OF EXISTING UTILITIES, THE CONTRACTOR SHALL POTHOLE TO CONFIRM EXACT LOCATIONS OF **EXISTING UTILITIES.**
- 4. IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME.
- 5. IN CASE OF INTERRUPTION OF UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION OR NEGLECT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR RECONSTRUCT DAMAGED ITEMS TO THE OWNER'S AND/OR UTILITY'S REPRESENTATIVE SATISFACTION AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE UTILITIES IN SERVICE AS SOON AS POSSIBLE.

### CONTROLLER NOTES

- CONTROLLERS SHALL BE INSTALLED AT THE APPROXIMATE LOCATIONS SHOWN ON THE IRRIGATION PLANS. FINAL LOCATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE. REFER TO THE ELECTRICAL ENGINEERING DWGS FOR THE POINT OF CONNECTION TO THE POWER SOURCE.
- ALL CABLES AND CONDUCTORS MUST BE INSTALLED IN CONDUIT AND SEALED PER NOTE 7 BELOW. EXTEND CONDUITS ALONG WITH APPROPRIATE CABLES/CONDUCTORS TO LOCATIONS SHOWN ON PLANS. REMOTE CONTROL WIRES SHALL BE DIRECT BURIAL
- PRIOR TO CONSTRUCTION, CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER REPRESENTATIVE, RAINMASTER SALES REPRESENTATIVE, AND OTHER NECESSARY PARTIES ASSOCIATED WITH THE INSTALLATION OF IRRIGATION EQUIPMENT.
- IRRIGATION CONTROLLER BY RAINMASTER. ENCLOSURE AND ASSOCIATED EQUIPMENT SHALL BE MANUFACTURED, AND ASSEMBLED BY RAINMASTER.
- ALL CONDUCTORS AND WIRING SHALL BE NEATLY ARRANGED AND ORDERED SO THAT CLEAR ACCESS TO ALL EQUIPMENT IS MAINTAINED.
- PROVIDE ENGRAVED SCREW-ON PHENOLIC NAMEPLATE ON DEVICE BOX INDICATING LOCATION AND NAME OF ORIGINATING ELECTRICAL PANEL AND BRANCH CIRCUIT IDENTIFICATION NUMBER.
- CONTRACTOR SHALL SEAL OFF ENDS OF CONDUIT AFTER INSTALLING CONDUCTORS/WIRES WITH DUCT SEAL, AND CAP ENDS OF ALL SPARE CONDUITS. EXTEND SPARE CONDUITS 24" BEYOND FOUNDATION AND CAP WITH BRASS CAP.
- PROVIDE QUANTITY OF UNUSED STATIONS (#14) SPARE WIRES FROM CONTROLLER TO A PULLBOX AS INDICATED ON PLANS. CAP SPARE WIRES WITH WIRE NUTS WRAPPED WITH VINYL ELECTRICAL TAPE. LABEL "SPARE". SEE IRRIGATION SPECIFICATIONS.
- CONTROLLER ASSEMBLY TO BE COVERED BY A 5 YEAR WARRANTY.
- 10. CONTRACTOR TO FURNISH, INSTALL, AND TEST COMPLETE RAINMASTER AUTOMATIC IRRIGATION CONTROLLER ASSEMBLY CONSISTING OF BUT NOT LIMITED TO CONTROLLER(S), ENCLOSURE, TERMINAL INTERFACE BOARDS, 120 VOLT GFI OUTLET, ON/OFF SWITCH, CABLING, TRANSFORMERS, SURGE ARRESTERS, AND ALL OTHER ITEMS SPECIFIED.
- 11. REFER TO SHEET L4.0 FOR OTHER IRRIGATION SYSTEM COMPONENTS AND MATERIALS REQUIRED FOR PROJECT.
- 12. UPON COMPLETION OF INSTALLATION, CONTACT THE RAINMASTER SALES REPRESENTATIVE TO PERFORM A SITE VISIT TO VERIFY THE SYSTEM HAS BEEN INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE SYSTEM WILL NOT BE ACCEPTED UNTIL THE REPRESENTATIVE HAS INDICATED THAT THE SYSTEM HAS BEEN INSTALLED CORRECTLY AND IS OPERATING SATISFACTORILY. CONTRACTOR TO PROVIDE PROGRAMMING OF CONTROLLER, WITH TRAINING (AT NO CHARGE) FROM THE RAINMASTER SALES REPRESENTATIVE.
- 13. CONTRACTOR SHALL PROVIDE TWO KEYS FOR EACH OF THE THE CONTROLLER ENCLOSURES, AND SECURE THE ENCLOSURES WITH THE LOCK DURING CONSTRUCTION AND MAINTENANCE. LOCKS SHALL BE KEYED TO THE OWNER'S NUMBER ASSIGNED. IMMEDIATELY PRIOR TO PROJECT ACCEPTANCE, THE CONTRACTOR SHALL TURN THE KEYS OVER TO THE CITY.

Date:

Designed:

Checked:

Proj. Engr:

Drawn:

03-22-2024

AS SHOWN

CH / MB

JE / ME

30902

RESPONSE TO PERMIT COMMENTS/ BID SET

REVISIONS

### IRRIGATION NOTES

- 1. THE EXISTING PRESSURE AT THE WATER METER RANGES FROM 60 TO 65 PSI. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 65 PSI AFTER THE EXISTING BOOSTER PUMP.
- 2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE PARKS AND RECREATION LANDSCAPE STANDARDS OF, CITY OF CUPERTINO AND THE PLANS AND DETAILS FOR THIS PROJECT.
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND WATER PRESSURE, IF ANY DISCREPANCY EXISTS BETWEEN DESIGN AND ACTUAL FIELD CONDITIONS, NOTIFY THE PROJECT ENGINEER PRIOR TO ANY INSTALLATION.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER A MINIMUM OF 48 HOURS PRIOR TO START OF ANY IRRIGATION WORK.
- 5. CONTROL WIRES SHALL BE 14 GAUGE (RED). SEPARATE WIRES SHALL RUN FROM THE CONTROLLER TO EACH VALVE. COMMON GROUND WIRES SHALL BE 12 GAUGE (WHITE). ALL CONTROL WIRES LEADING FROM VALVES TO CONTROLLER MUST BE LOOPED UP A MINIMUM OF THREE (3) FEET INTO EVERY VALVE BOX INTERCEPTED ON THE WAY TO THE CONTROLLER.
- SPLICES IN THE FIELD SHALL BE MADE EXCLUSIVELY WITH RAINBIRD "SNAP-TITE" CONNECTORS OR GLOBAL SPAN PRODUCTS, INC. "SPLICE KOTE" IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS OR APPROVED
- 7. ALL PLASTIC FITTING SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS.
- TRENCHING DEPTHS FOR IRRIGATION PIPES ARE AS FOLLOWS: MAIN = 24", ALL LATERALS = 18". ALL DIMENSIONS ARE FROM THE TOP OF THE PIPE. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24".
- 9. ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN CLASS 315 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE AND EFFECTIVE COVERAGE OF ALL PLANTED AREAS, BALANCE EACH SYSTEM TO OPTIMUM COVERAGE, ADJUST EACH ARC, RADIUS AND NOZZLE AS DIRECTED ON SITE BY THE ENGINEER.
- 11. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR PORTION OF WORK WITH THE UNDERGROUND ELECTRICAL SUB-CONTRACTOR TO MINIMIZE CONFLICTS.
- 12. GATE VALVES SHALL BE INSTALLED IN A ROUND CONCRETE BOX WITH LOCKABLE STEEL LID, INSTALLED WITH 2 CUBIC FEET OF DRAIN ROCK.
- 13. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING. VALVES. ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN NON-TURF PLANTING AREAS WHERE POSSIBLE.
- 14. ALL MAINS, LATERALS AND CONTROL WIRES LOCATED UNDER PAVEMENT SHALL BE INSTALLED IN SLEEVES. REFER TO SPECIFICATION 328400 FOR SLEEVE SIZE AND MATERIAL.
- 15. THE CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE LANDSCAPE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS AND TRADES FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT, AND SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURES, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.
- 16. IRRIGATION COMPONENTS SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, QUICK COUPLING VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN ADJACENT PLANTING AREAS EXCEPT WHERE PIPES CROSS PAVING OR AS NOTED. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM AND TREES, PLANTINGS, SITE FEATURES AND UTILITIES INCLUDING STORM DRAINAGE.
- 17. PRIOR TO ANY TRENCHING THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL NEW AND EXISTING UNDERGROUND UTILITY LINES. CALL 811 A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- 18. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO MAINTAIN GOOD PLANT HEALTH, APPEARANCE AND REASONABLE GROWTH. THE AMOUNT OF SUPPLEMENTAL WATER A PLANT REQUIRES IS DEPENDENT ON SOIL TYPE, PLANT MATERIAL, ROOTING DEPTH CLIMATE, SEASONAL CHANGES, SLOPES, MOUNDS, SUN, SHADE AND WIND. 17 IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE IRRIGATION SCHEDULE AND ET VARIABLES AS NEEDED. IN ADDITION, THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATER TO ACCOMMODATE SPECIAL WATERING NEEDS OF PLANT MATERIAL THROUGH THE MAINTENANCE PERIOD. ACTUAL STATION RUN TIMES MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS.
- 19. ALL VALVES PROVIDING IRRIGATION TO SLOPES AREAS SHALL BE SCHEDULED IN MULTIPLE, SHORT CYCLES TO HELP ELIMINATE IRRIGATION WATER RUNOFF.

DESIGN DESIGN CITY APPR. BY DATE APPR. DATE

No. 5024

- 20. CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE DRIPLINE LAYOUT AS PER ACTUAL FIELD CONDITIONS TO ACHIEVE FULL COVERAGE OF ALL PLANTED AREAS. THE CONTRACTOR WILL BE RESPONSIBLE OF INSTALLING ADDITIONAL DRIPLINE, AS NEEDED, TO PROVIDE ADEQUATE COVERAGE, AT NO ADDITIONAL COST TO THE CLIENT. REFER TO IRRIGATION EQUIPMENT LEGEND FOR MAXIMUM ALLOWED VERTICAL DRIPLINE SPACING.
- 21. SUBSURFACE EMITTER FLOW RATE, EMITTER SPACING AND LATERAL SPACING IS BASED ON TYPICAL SOILS ENCOUNTERED IN THE AREA. THE CONTRACTOR SHALL MAKE ANY MODIFICATION TO EMITTER FLOW RATE, EMITTER SPACING, AND LATERAL SPACING AS REQUIRED TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR AN EVEN WETTED PATTERN. BASED ON ACTUAL SOIL ANALYSIS. REFER TO DRIPLINE MANUFACTURER RECOMMENDATIONS FOR ADDITIONAL INFORMATION. FINAL EMITTER SPACING AND FLOW RATE TO BE APPROVED BY THE CLIENT REPRESENTATIVE.
- 22. DRAINAGE OF IRRIGATION WATER THROUGH DRIP EMITTERS WILL NOT BE ALLOWED. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ADDITIONAL IN-LINE CHECK VALVES AS REQUIRED IN ANY AREA WHERE EMISSION DEVICES SHOW SIGNS OF DRAINAGE AFTER IRRIGATION SYSTEM HAS OPERATED FROM AN ON TO OFF POSITION. INSTALLATION OF ADDITIONAL IN-LINE CHECK VALVES SHALL BE INCLUDED IN THE BID PRICE WITHOUT ADDITIONAL COST TO THE CLIENT.
- 23. CONTRACTOR SHALL ADJUST THE DRIPLINE LAYOUT, WHEN PLANTER SLOPE IS GREATER THAN 5 PERCENT, TO PROVIDE LATERAL ROW SPACING THAT IS 25 PERCENT GREATER WITHIN THE BOTTOM ONE-THIRD OF THE SLOPE.
- 24. LOCATIONS AND THE QUANTITIES OF FLUSH VALVES AND AIR/VACUUM RELIEF VALVES (AVRV) SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HIGHEST POINTS OF EACH HYDROZONE AND LOCATING AVRV'S AS REQUIRED AND FOR INSTALLING ADDITIONAL FLUSH VALVES, AS NEEDED, ACCORDING TO MANUFACTURER'S GALLONS PER HOUR REQUIREMENTS PER HYDROZONE AT NO ADDITIONAL COST TO THE CLIENT
- 25. MAINLINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE INDICATED TO BE THE SAME AS INLET OF PRODUCT IT SUPPLIES, BUT NOT LESS THAN 1-INCH. LATERAL PIPE SIZES DOWNSTREAM OF LAST PIPE SIZE CALL OUT SHALL BE SAME AS THE LAST PIPE SIZE CALLED OUT, BUT NO LESS THAN 3/4-INCH.
- 26. ALL IRRIGATION EQUIPMENT SHALL BE AS LISTED OR EQUAL AS APPROVED BY THE CITY'S REPRESENTATIVE.
- 27. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND COORDINATE AND PROVIDE THE FINAL CONNECTION OF THE CONTROLLER TO ITS DEDICATED POWER SOURCE. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR AND SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND ALL STATE AND LOCAL CODES AND REGULATIONS. ALL ELECTRICAL WORK SHALL BE REQUIRED TO PASS CITY INSPECTION.
- 28. SEE IRRIGATION DETAILS, TECHNICAL SPECIFICATIONS AND PLANTING PLANS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- 29. ALL TRENCHING SHALL COMPLY WITH TREE PRESERVATION REQUIREMENTS. SEE PLANTING PLANS FOR ADDITIONAL INFORMATION.

### **EXISTING IRRIGATION NOTES**

- 1. IRRIGATION DESIGN IS BASED ON CITY PROVIDED INFORMATION AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF SITE CONDITIONS WHICH MAY PREVENT INSTALLATION OF WORK PER PLANS, DETAILS AND SPECIFICATIONS. ALL EXISTING IRRIGATION SYSTEM LAYOUT (IF ANY) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AT THE START OF WORK.
- 2. CONTRACTOR SHALL FIELD VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL MAINLINES THAT ARE TO BE CONNECTED TO OR CROSSED AT THE START OF WORK AND PROVIDE FINDINGS TO OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE START OF DEMOLITION.
- 3. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ANY EXISTING IRRIGATION SYSTEMS DIRECTLY ADJACENT AND OUTSIDE OF THE LIMIT-OF-WORK AREAS PRIOR TO THE START OF WORK. CONTRACTOR SHALL DOCUMENT ANY BROKEN OR MALFUNCTIONING PIECE OF IRRIGATION EQUIPMENT AND PROVIDE THE OWNER'S REPRESENTATIVE WITH A WRITTEN REPORT. ANY REPAIRS REQUIRED TO COMPONENTS NOT NOTED IN THE REPORT DURING OR AFTER DEMOLITION IS COMPLETED SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM TO REMAIN CAUSED BY EITHER THEIR OR THEIR SUB-CONTRACTORS OPERATIONS OR NEGLECT. IN CASE OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ANY REQUIRED REPAIRS AS SOON AS POSSIBLE. REPAIRS SHALL BE THE DIRECTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND SHALL BE TO THE EXACT DUPLICATE OF ORIGINAL WORK OR HIGHER QUALITY.
- 5. EXISTING IRRIGATION OUTSIDE OF AREAS OF WORK (IF ANY) SHALL REMAIN FULLY OPERATIONAL. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEM'S WATERING OR OPERATION SHALL BE ALLOWED DURING THE COURSE OF CONSTRUCTION. THE EXISTING IRRIGATION SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION AND SHALL BE SUPPLEMENTED BY MANUAL WATERING ONLY WHEN REQUIRED OR REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 6. PROTECT ALL EXISTING MAINLINE, CONTROL VALVES AND WIRES, AND IRRIGATION EQUIPMENT, INCLUDING BY NOT LIMITED TO PRESSURE REDUCING VALVES, MASTER VALVES, FLOW SENSORS, ETC., NECESSARY FOR THE OPERABILITY OF THE EXISTING IRRIGATION SYSTEM TO REMAIN. REMOVE EXISTING IRRIGATION EQUIPMENT ONLY WHEN REQUIRED AS PART OF NEW IRRIGATION SYSTEM INSTALLATION.
- 7. ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER(S) SHALL REMAIN CONNECTED UNLESS OTHERWISE NOTED ON PLANS. CONFIRM PROPER EXISTING CONTROLLER OPERATION WITH CITY'S REPRESENTATIVE UPON COMPLETION OF WORK.
- 8. EXISTING EQUIPMENT MAY BE RELOCATED FROM THE AREA OF WORK IF REQUIRED IN ORDER TO MAINTAIN OPERABILITY OF THE EXISTING IRRIGATION SYSTEM DURING AND AFTER CONSTRUCTION. RELOCATE EXISTING EQUIPMENT ONLY AS REQUIRED TO REMAIN FUNCTIONAL AND AS PER CITY'S REPRESENTATIVE APPROVAL.



FOR CITY OF CUPERTINO USE

PUBLIC WORKS INSPECTOR:

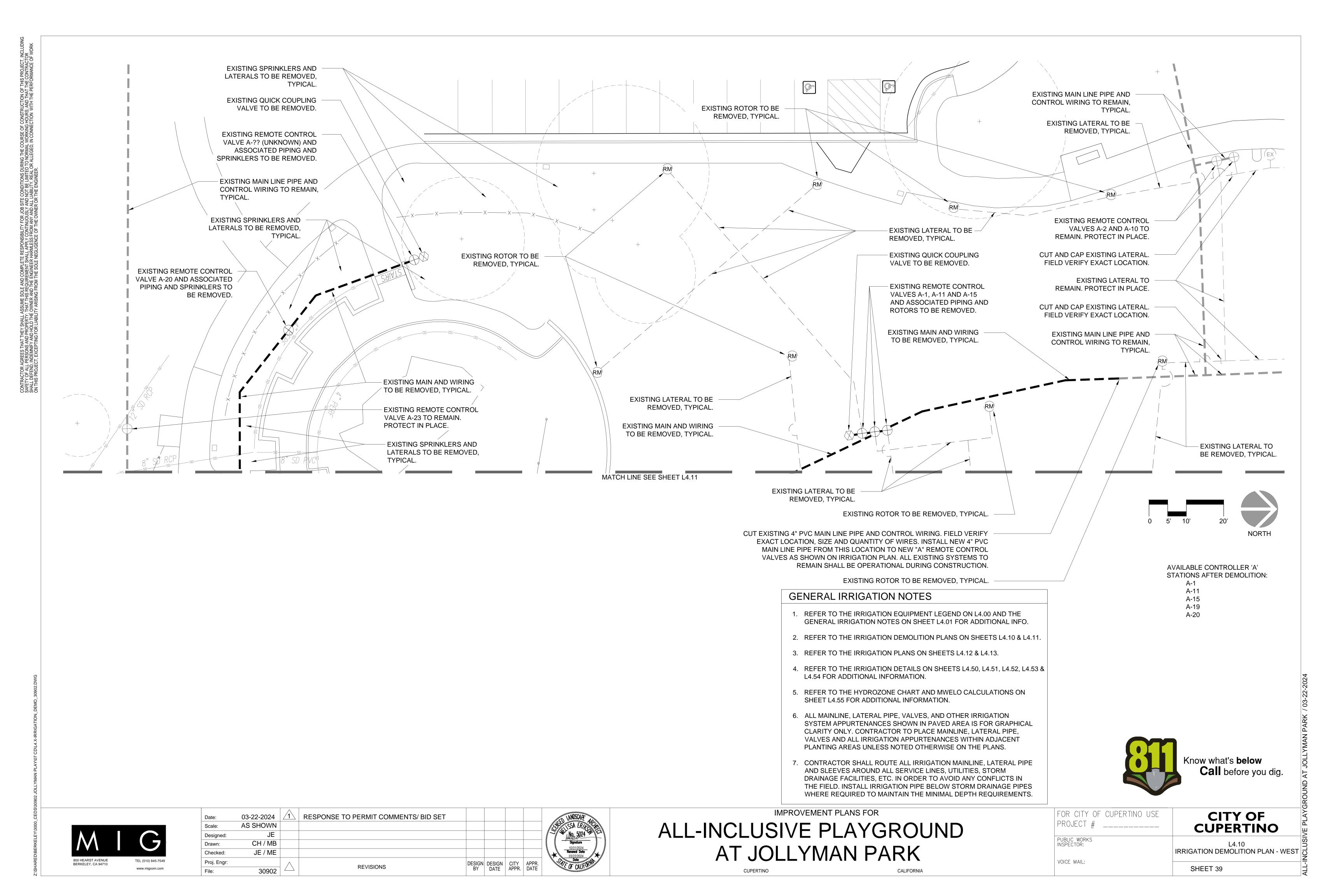
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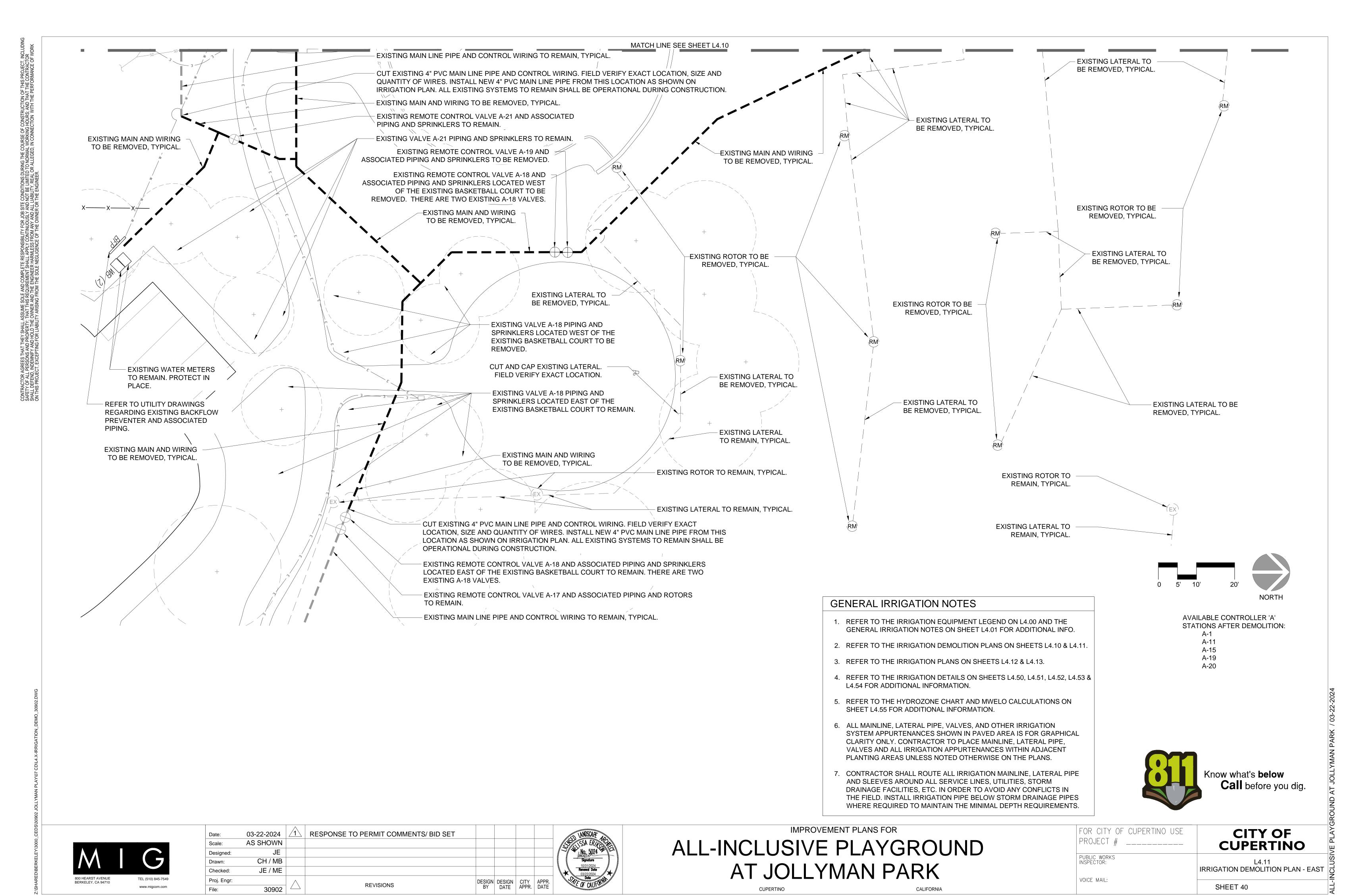
CITY OF **CUPERTINO** 

**IRRIGATION NOTES** 

SHEET 38

IMPROVEMENT PLANS FOR





- 1. REFER TO THE IRRIGATION EQUIPMENT LEGEND ON L4.00 AND THE GENERAL IRRIGATION NOTES ON SHEET L4.01 FOR ADDITIONAL INFO.
- 2. REFER TO THE IRRIGATION DEMOLITION PLANS ON SHEETS L4.10 & L4.11
- 3. REFER TO THE IRRIGATION PLANS ON SHEETS L4.12 & L4.13.
- 4. REFER TO THE IRRIGATION DETAILS ON SHEETS L4.50, L4.51, L4.52, L4.53 & L4.54 FOR ADDITIONAL INFORMATION.
- 5. REFER TO THE HYDROZONE CHART AND MWELO CALCULATIONS ON SHEET L4.55 FOR ADDITIONAL INFORMATION.
- 6. ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS UNLESS NOTED OTHERWISE ON THE PLANS.
- 7. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.

L4.00 FOR TYPE AND SIZE.

MAINLINE PIPE SLEEVE QUANTITY (#)M (#)L LATERAL PIPE SLEEVE QUANTITY (#)W WIRE/CONDUIT SLEEVE QUANTITY (#)S **EMPTY(SPARE) SLEEVE QUANTITY** 

**VALVE CALLOUT** 

CONTROLLER/STATION → A17 Z1 → HYDROZONE DESCRIPTION\*
FLOW (GPM) → 5.4 1" → VALVE SIZE OPERATING PRESSURE (PSI) → 30 DRP → IRRIGATION METHOD (BELOW) HYDROZONE WATER-USE L 0.85 PRECIP. RATE (IN./HR.)
631 PRECIP. RATE (IN./HR.)

\*REFER TO HYDROZONE CHART

**IRRIGATION METHOD:** 

RWS - TREE ROOT WATERING SYSTEM DRP - SUB-SURFACE DRIP GRID

**ROT - POP-UP ROTOR** SPR - POP-UP SPRAY

BUB - VINE BUBBLER

1-1/2" PIPE SIZING CALLOUT

CONNECT TO EXISTING 4" PVC MAIN LINE PIPE AND LOW VOLTAGE CONTROL WIRES AT THIS LOCATION WITH NEW MAIN LINE PIPE AND CONTROL WIRES. ROUTE NEW PVC MAIN AND CONTROL WIRES AS INDICATED ON THE IRRIGATION PLANS, INSTALL PER DETAILS.

AUTOMATIC IRRIGATION CONTROLLER 'C':

LOCATION OF PROPOSED WALL MOUNTED IRRIGATION CONTROLLER. INSTALL PER DETAIL WITHIN UTILITY ROOM. CONNECT TO 120 VOLT POWER SUPPLY PER ELECTRICAL DRAWINGS. FINAL LOCATION OF CONTROLLER PER CLIENT. REFER TO GENERAL IRRIGATION NOTES FOR ADDITIONAL REQUIREMENTS. INSTALL CONDUITS FROM CONTROLLER TO EXTERIOR PLANTING AREA FOR LOW VOLTAGE CONTROL WIRES, FLOW SENSOR WIRES AND MASTER VALVE WIRES. SIZES AS REQUIRED.

WIRELESS RAIN SHUT-OFF SENSOR FOR CONTROLLER 'C':

MOUNT SENSOR ON SOUTH FACING EXTERIOR BUILDING EAVE/FASCIA. CONTRACTOR SHALL POSITION SENSOR TO PROVIDE OPTIMAL EXPOSURE TO UNOBSTRUCTED RAIN FALL AS PER MANUFACTURER'S RECOMMENDATIONS.

(4) PROPOSED RE-ROUTED IRRIGATION MAIN LINE PIPE:

INSTALL PROPOSED MAIN LINE PIPE, CONTROL WIRING AND REMOTE CONTROL VALVES AT EDGE OF TURF SO THE VALVE BOXES ARE NOT LOCATED IN THE MIDDLE OF THE TURF, TYPICAL.

EXISTING SYSTEM TO REMAIN:

PROTECT IN PLACE EXISTING SYSTEMS AND REMAIN OPERATIONAL DURING CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS OF HEADS, PIPING, WIRING AND VALVES.

STATIONS AFTER CONSTRUCTION: A-20 IS UNUSED.





### MWELO REQUIRED STATEMENTS & CERTIFICATION:

- A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
- 2. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

### MWELO IRRIGATION DESIGN PLAN REQUIRED NOTES:

- PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
- CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT , COMPLETE LANDSCAPE DOCUMENTATION PACKAGE. 11-15-23 SIGNATURE DATE

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE



| Date:       | 03-22-2024 | 1 | RESPONSE TO PERMIT COMMENTS/ BID SET |              |        |       |       |     |
|-------------|------------|---|--------------------------------------|--------------|--------|-------|-------|-----|
| Scale:      | AS SHOWN   |   |                                      |              |        |       |       |     |
| Designed:   | JE         |   |                                      |              |        |       |       |     |
| Drawn:      | CH / MB    |   |                                      |              |        |       |       | 1   |
| Checked:    | JE / ME    |   |                                      |              |        |       |       | \\- |
| Proj. Engr: |            |   | DEVICIONS                            | DESIGN<br>BY | DESIGN | CITY  | APPR. |     |
| File:       | 30902      |   | REVISIONS                            |              | DATE   | APPR. | DATE  |     |
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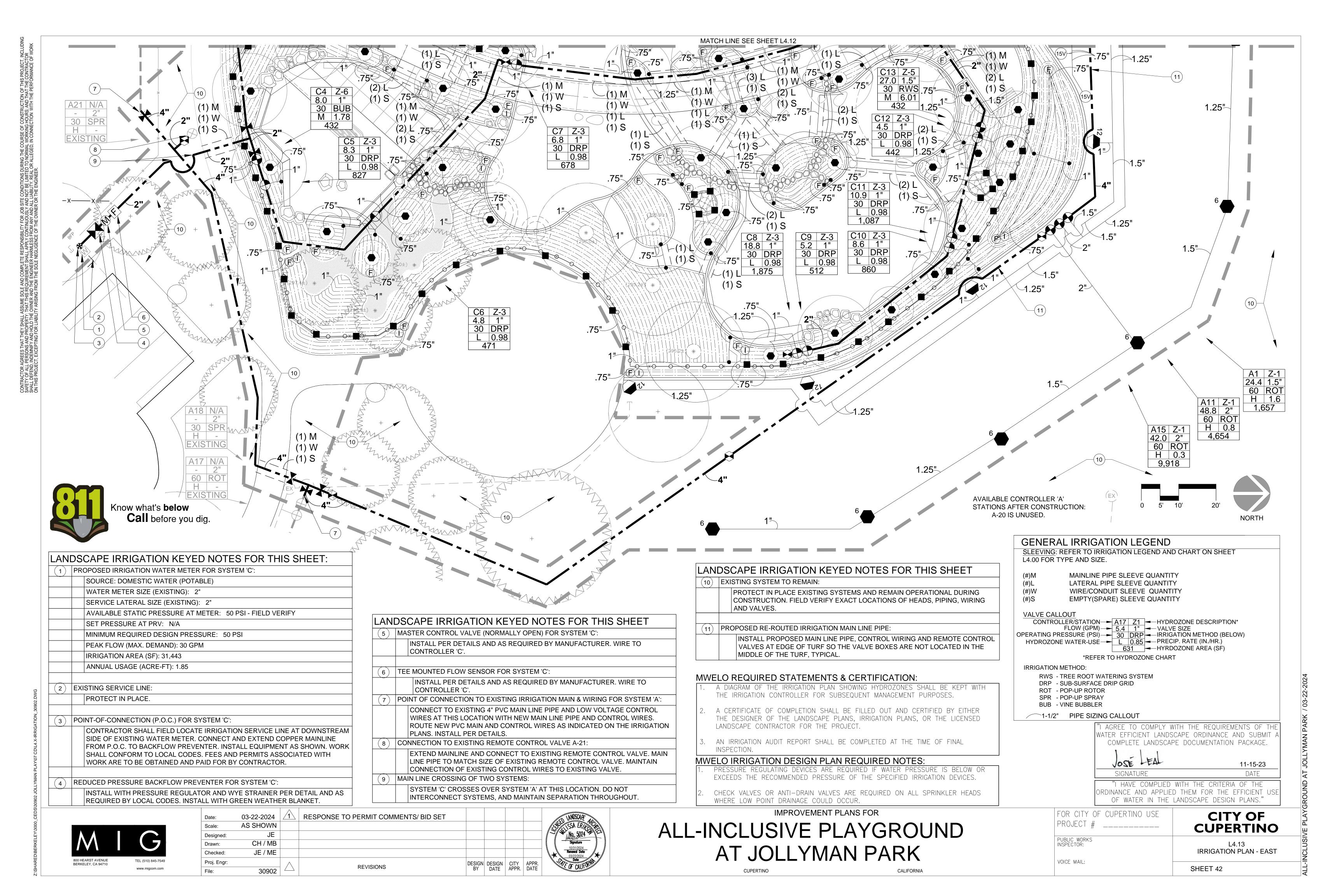
# IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND

AT JOLLYMAN PARK

| OF WATER IN THE LAND            | JSCAPE DESIGN PLANS.            |
|---------------------------------|---------------------------------|
| R CITY OF CUPERTINO USE OJECT # | CITY OF<br>CUPERTINO            |
| BLIC WORKS<br>PECTOR:           | L4.12<br>IRRIGATION PLAN - WEST |

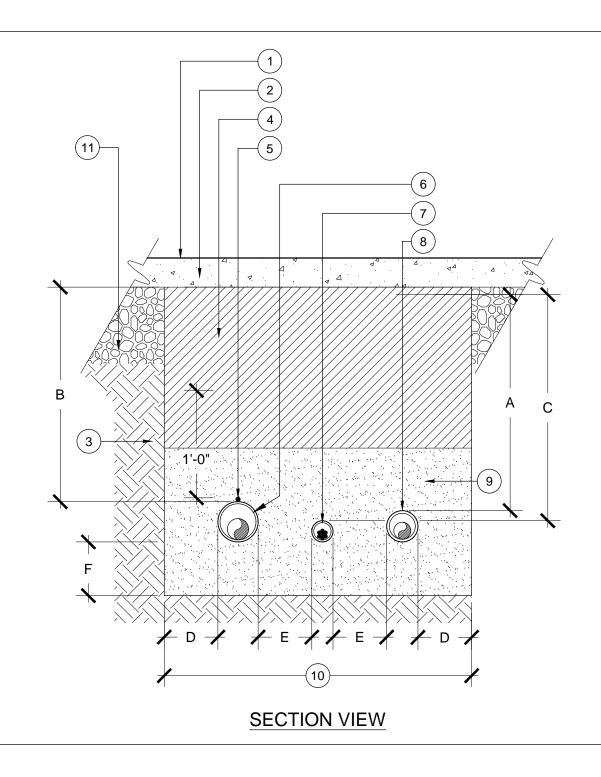
VOICE MAIL:

SHEET 41



CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INC BAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

- 1. DIG SIDES OF TRENCH SQUARE AND CLEAN OF ALL SHARP
- 2. NON-PRESSURE PIPES RUNNING PARALLEL TO EACH OTHER MUST HAVE A MIN. CLEARANCE OF 6" FROM EACH OTHER.
- 3. IRRIGATION PIPES SHALL HAVE A MIN. CLEARANCE OF 24" FROM OTHER TRADES.
- 4. PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
- 5. CONTRACTOR MUST ADJUST MAINLINE AS REQUIRED TO AVOID OTHER ELEMENTS.
- 6. ALL SLEEVES MUST BE A MIN. OF 2 TIMES THE DIAMETER OF THE PIPE WITHIN
- ALL SLEEVES MUST EXTEND 6" MIN. DISTANCE PAST CURB OR PAVEMENT EDGES.



### $(\ {\sf 1}\ )$ FINISH GRADE.

- $ig(\,{}_2\,ig)$  VEHICULAR OR PEDESTR. PAVING.
- $(\,{}_3\,)\,$  UNDISTURBED NATIVE SOIL.
- (4) COMPACTED BACKFILL OVER INITIAL SAND BEDDING: - BENEATH VEHICULAR PAVEMENT

PER ENGINEER'S PLANS

SHALL BE COMPACTED CLASS II

AGG., DEPTH AND COMPACTION

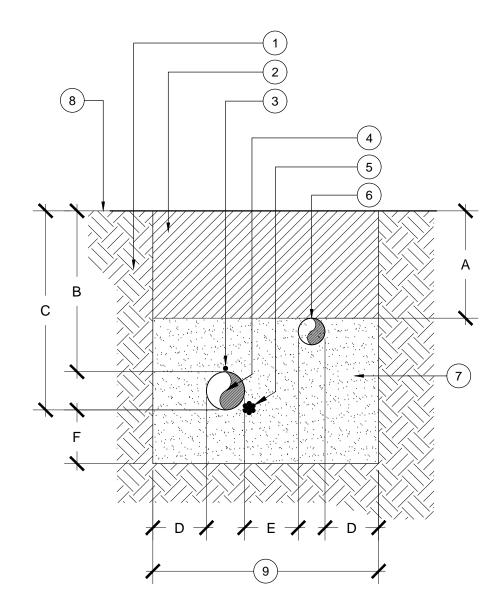
- BENEATH NON-VEHICULAR PAVEMENT SHALL BE NATIVE SITE SOIL. NO PARTICLES GREATER THAN 1". COMPACT
- (5) COPPER TRACE WIRE, REFER TO

PER SPECS.

- (6) PRESSURE MAINLINE PIPE SLEEVE, PER LEGEND.
- (7) CONTROL WIRE SLEEVE, PER LEGEND.
- (8) NON-PRESSURE LATERAL LINE SLEEVE, PER LEGEND.
- $(\ 9\ )$  INITIAL SAND BACKFILL PER SPECS. PROVIDE 6" BEDDING DEPTH BELOW MAINLINE AND 6" COVER ABOVE MAINLINE. COMPACT PER SPECS.
- (10) 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.
- (11) PAVEMENT SUBGRADE AS PER **ENGINEER'S PLANS**

|                    | LAT | MAIN | WIRING |    |    |    |
|--------------------|-----|------|--------|----|----|----|
| DEPTH              | Α   | В    | С      | D  | E  | F  |
| 4" AND LARGER      | N/A | N/A  | N/A    | 6" | 6" | 6" |
| 3" AND SMALLER     | 18" | N/A  | N/A    | 6" | 6" | 6" |
| 2-1/2" AND SMALLER | 12" | N/A  | N/A    | 6" | 6" | 6" |
| CONTROL WIRES      | N/A | N/A  | 18"    | 6" | 6" | 6" |

- 1. DIG SIDES OF TRENCH SQUARE AND CLEAN OF ALL SHARP
- NON-PRESSURE PIPES RUNNING PARALLEL TO EACH OTHER MUST HAVE A MIN. CLEARANCE OF 6" FROM EACH OTHER.
- 3. IRRIGATION PIPES SHALL HAVE A MIN. CLEARANCE OF 24" FROM OTHER TRADES.
- 4. PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
- CONTRACTOR MUST ADJUST MAINLINE AS REQUIRED TO AVOID OTHER ELEMENTS.



SECTION VIEW

- (1) UNDISTURBED NATIVE SOIL.
- (2) COMPACTED NATIVE BACKFILL OVER INITIAL SAND BEDDING. NO PARTICLES GREATER THAN 1". COMPACT PER SPECS.
- (3) COPPER TRACE WIRE. REFER TO SPECS.
- (4) PRESSURE MAINLINE PIPE, PER LEGEND.
- (5) CONTROL WIRES, BUNDLED AND TAPED TO SIDE OF MAINLINE AT 10' O.C. (INSTALL WIRES IN CONDUIT FROM CONTROLLER TO MAINLINE).
- (6) NON-PRESSURE LATERAL LINE, PER LEGEND.
- INITIAL SAND BACKFILL PER SPECS. PROVIDE 6" BEDDING DEPTH BELOW MAINLINE AND 6" COVER ABOVE MAINLINE. COMPACT PER SPECS
- (8) FINISH GRADE
- (9) 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.

### TRENCHING - BENEATH PAVING

Scale: N.T.S.

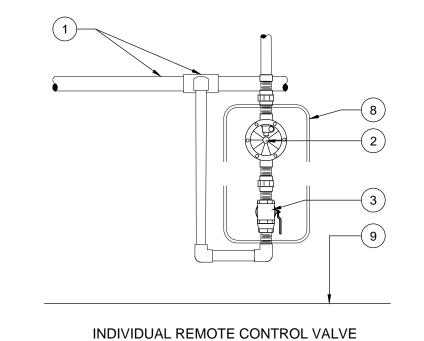
TRENCHING - WITHIN PLANTING AREAS

Scale: N.T.S.

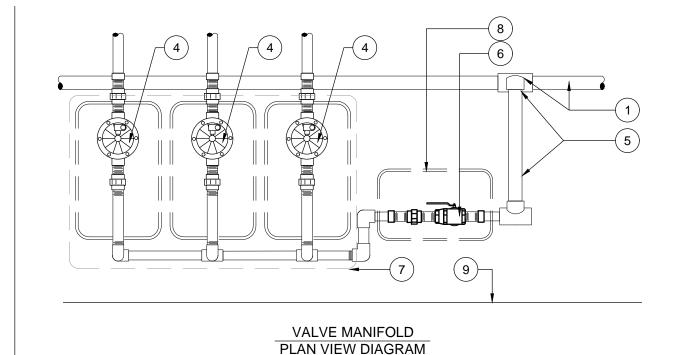
- INSTALL VALVE BOXES IN GROUND COVER/ SHRUB PLANTING AREAS WHENEVER POSSIBLE
- 2. ALL VALVE BOXES MUST BE PERPENDICULAR TO EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB AND SET PARALLEL TO EACH OTHER.
- 3. ALL VALVES MUST BE CENTERED AND INSTALLED PLUMB INSIDE VALVE BOX TO FACILITATE ACCESS AND
- 4. ALL VALVES MUST BE INSTALLED IN ITS OWN VALVE BOX.
- 6. REFER TO VALVE ASSEMBLY DETAILS FOR VALVE BOXES FINISH ELEVATIONS.
- 7. AVOID EXCESSIVE COMPACTING AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
- 8. INSTALL VALVE BOX EXTENSIONS BY VALVE MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE
- LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 10. BOX COLOR: GREEN FOR POTABLE WATER SYSTEMS..
- 11. ALL VALVE BOX LIDS MUST BE LABELED BY HOT IRON BRANDING:
  - **YS WYE STRAINER**
  - CV CHECK VALVE
- MV MASTER VALVE FS - FLOW SENSOR
- **RCV REMOTE CONTROL VALVE**
- QCV QUICK COUPLER VALVE
- **BV ISOLATION BALL VALVE**
- **GV ISOLATION GATE VALVE** E - PULL BOX/ SPLICE BOX

4 VALVE BOX LAYOUT

- 12", TYP.
- ( 1 ) 10" ROUND VALVE BOX PER SPECS FOR REMOTE CONTROL WIRE PULL/SPLICES, TYP.
- (2) RECTANGULAR VALVE BOX PER SPECS FOR MAINLINE ISOLATION BALL VALVE, TYP.
- (3) RECTANGULAR VALVE BOX PER SPECS FOR REMOTE CONTROL VALVE ASSEMBLIES, TYP.
- (4) EDGE OF AREA, SIDEWALK, CONCRETE CURB, ETC., TYP.



PLAN VIEW DIAGRAM



- FITTING(S).
- (2) INDIVIDUAL REMOTE CONTROL VALVE WITH BALL VALVE.
- (3) ISOLATION BALL VALVE WHEN SINGLE REMOTE CONTROL VALVE IS NOT GROUPED WITHIN MAINLINE MANIFOLD ASSEMBLY.

(1) PRESSURE MAINLINE AND TEE

- (4) REMOTE CONTROL VALVE
- MANIFOLD TEE AND PRESSURE MAINLINE PIPE. MUST BE MAINLINE
- (6) MANIFOLD ISOLATION BALL VALVE. VALVE MUST BE MAINLINE SIZE.
- (7) MANIFOLD VALVES TOGETHER WHEN WITHIN 20 FEET OF EACH
- (8) VALVE BOX, TYP.
- 9 EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB.

Scale: N.T.S.

- ALL THREADED CONNECTIONS MUST HAVE TEFLON TAPE (PVC/ BRASS) OR PASTE (BRASS ONLY).
- 2. REMOTE CONTROL VALVES SHALL BE INSTALLED WITH THE LARGEST VALVE AND GPM FLOW INSTALLED FIRST ON THE MANIFOLD, WITH THE SMALLER VALVES AND CAPACITIES TRANSITIONING FROM THERE.
- 3. REFER TO SPECIFIC DETAIL FOR ISOLATION BALL VALVE REQUIREMENTS
- 4. REFER TO SPECIFIC DETAIL FOR QUICK COUPLER VALVE REQUIREMENTS
- 5. REFER TO SPECIFIC DETAIL FOR REMOTE CONTROL VALVE REQUIREMENTS.
- 6. REFER TO SPECIFIC DETAIL FOR VALVE BOX LAYOUT REQUIREMENTS
- 7. REFER TO SPECIFIC DETAIL FOR PRESSURE MAINLINE AND NON-PRESSURE LATERALS PIPE REQUIREMENTS.

3 MANIFOLD INSTALLATION

Scale: N.T.S.

RESPONSE TO PERMIT COMMENTS/ BID SET 03-22-2024 AS SHOWN Designed: CH / MB Drawn: JE / ME Checked: DESIGN DESIGN CITY APPR. DATE Proj. Engr: REVISIONS 30902



IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

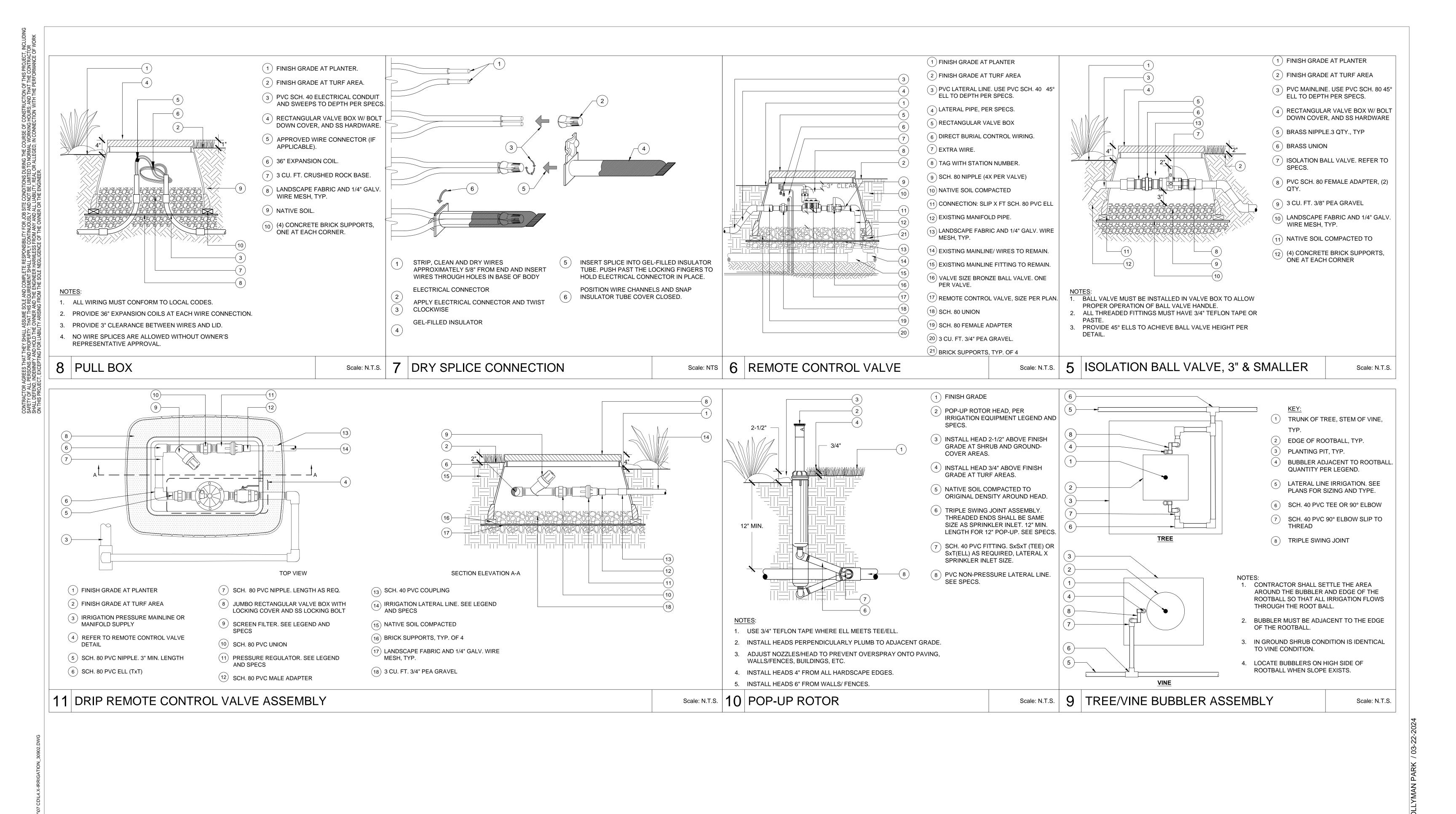
FOR CITY OF CUPERTINO USE PUBLIC WORKS INSPECTOR:

VOICE MAIL:

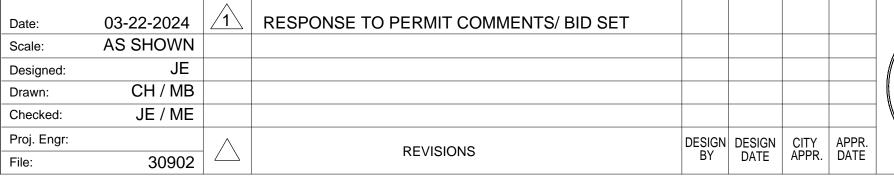
CITY OF **CUPERTINO** 

**IRRIGATION DETAILS** 

SHEET 43





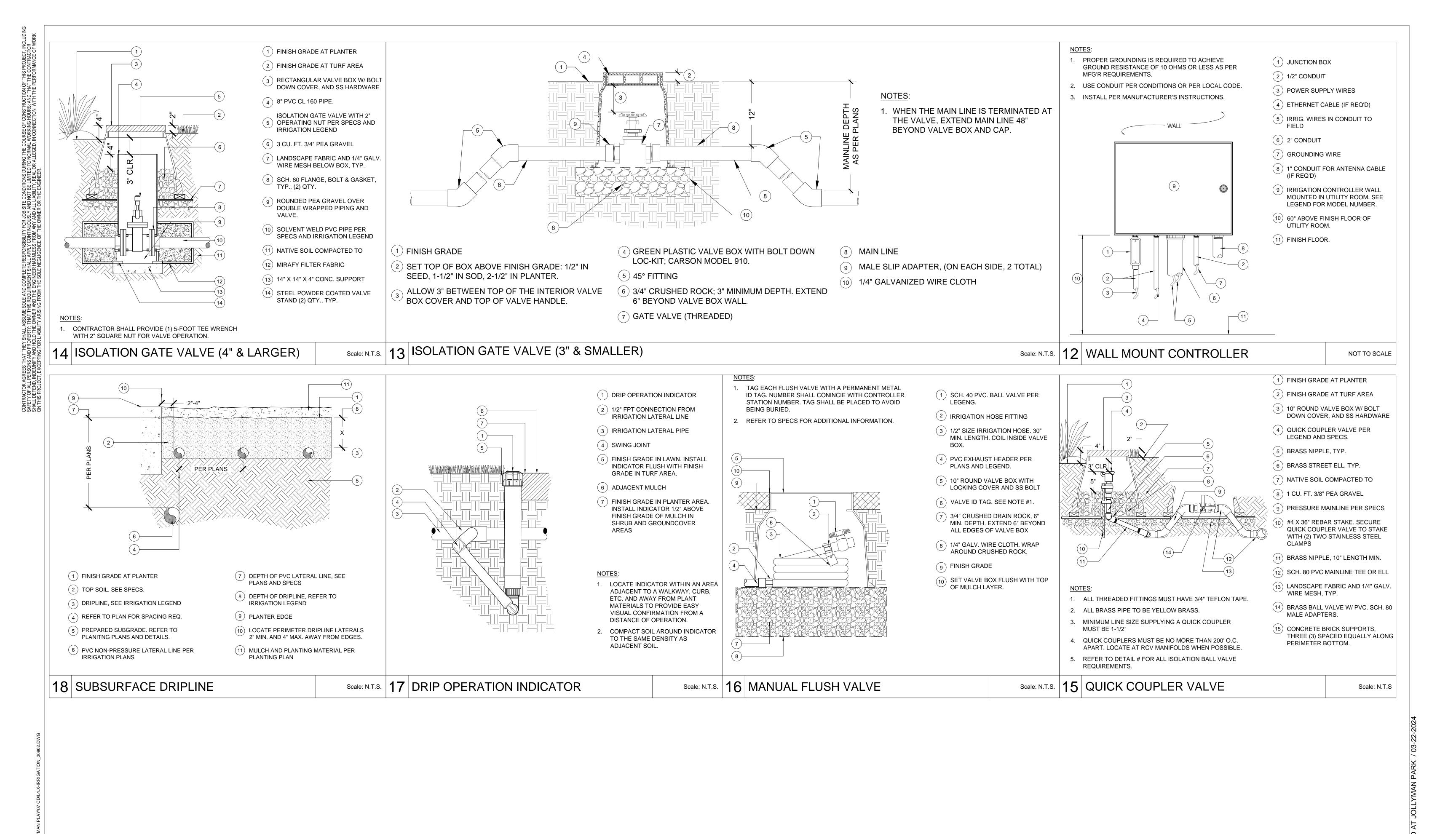




# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

IMPROVEMENT PLANS FOR

| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO        |
|-------------------------------------|-----------------------------|
| PUBLIC WORKS INSPECTOR:             | L4.51<br>IRRIGATION DETAILS |
| VOICE MAIL:                         | SHEET 44                    |

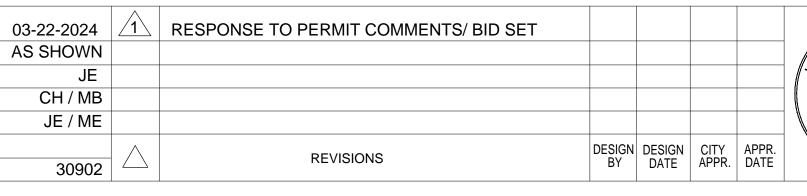




Designed:

Checked:

Proj. Engr:





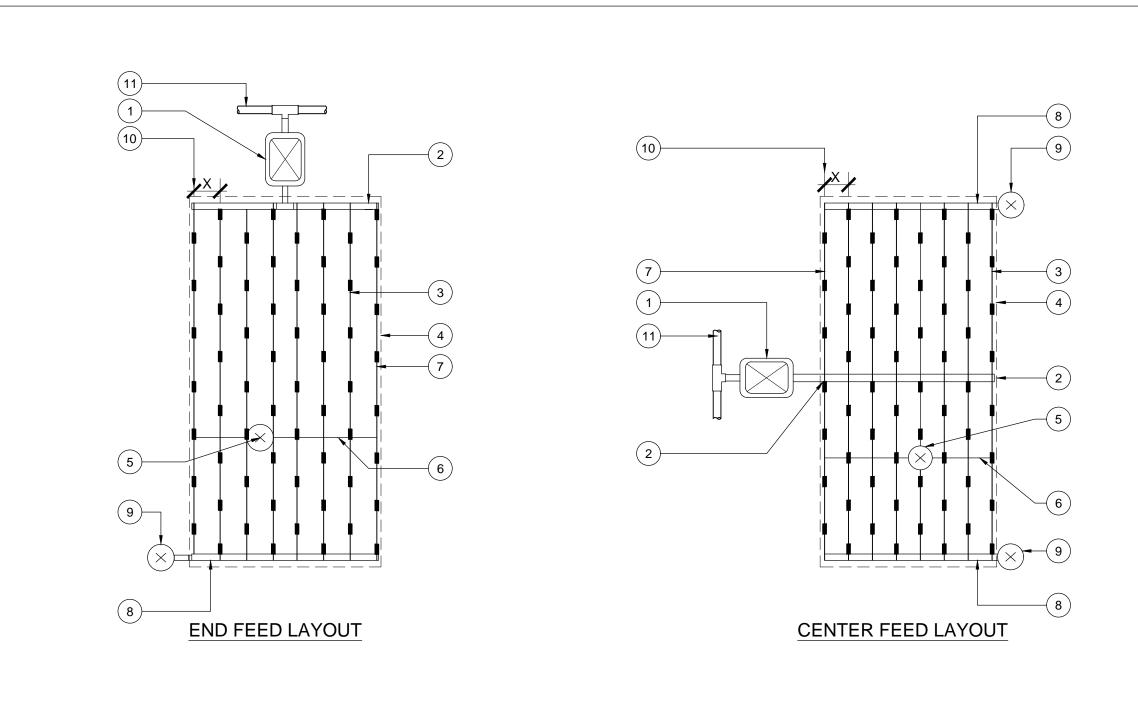
### IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PUBLIC WORKS INSPECTOR: VOICE MAIL:

CITY OF **CUPERTINO** 

**IRRIGATION DETAILS** 

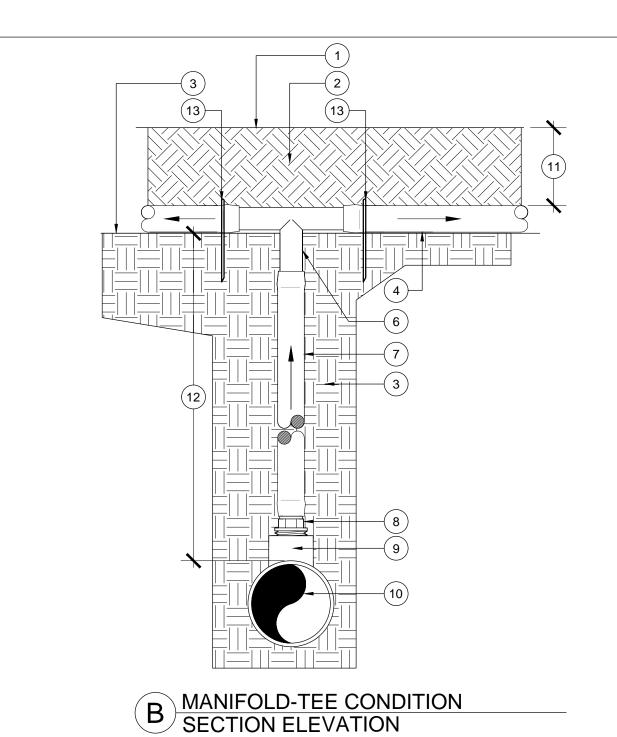
SHEET 45



- 1 DRIP REMOTE CONTROL VALVE ASSEMBLY. REFER TO IRRIGATION PLANS AND LEGEND
- (2) IRRIGATION NON-PRESSURE PVC LATERAL SUPPLY LINE (HEADER), PER IRRIGATION PLANS AND LEGEND
- (3) DRIPLINE TUBING LATERAL PER IRRIGATION LEGEND
- (4) PLANTING AREA PERIMETER
- 5 AIR/VACUUM RELIEF VALVE PER IRRIGATION LEGEND. INSTALL AT HIGH POINT(S) OF HYDROZONE. LOCATE IN FIELD.
- (6) AIR/VACUUM RELIEF LATERAL BLANK DRIPLINE TUBING. CONNECT PERPENDICULAR TO DRIPLINE USING MANUFACTURER APPROVED FITTINGS
- LATERALS 2" TO 4" FROM EDGE OF HARDSCAPE, CURB, ETC. 8 IRRIGATION NON-PRESSURE PVC
- EXHAUST HEADER. 9 FLUSH VALVE PER IRRIGATION

(7) INSTALL PERIMETER DRIPLINE

- LEGEND. PLUMB TO NON-PRESSURE PVC LATERAL LINE (10) DISTANCES PER IRRIGATION
- LEGEND 11) IRRIGATION PRESSURE MAINLINE PER PLANS AND SPECS.
- A MANIFOLD-ELL CONDITION SECTION ELEVATION



- (1) FINISH GRADE AT PLANTER
- (2) TOP SOIL. REFER TO SPECS
- TO SPECS. 4 DRIPLINE TUBING, REFER TO IRRIGATION LEGEND FOR

(3) COMPACTED SUBGRADE. REFER

ADDITIONAL INFORMATION

(5) BARBED DRIP ELBOW FITTING

- (6) BARBED DRIP TEE FITTING
- 7 BLANK POLYETHYLENE DRIP TUBING
- (8) BARBED x 1/2" MPT ADAPTER
- (9) PVC TEE (SLxSLxTH) WITH 1/2" FPT
- (10) PVC SUPPLY LATERAL LINE, SIZE AND TYPE PER PLAN
- DEPTH OF MULCH, REFER TO SPECS.
- (12) DEPTH OF PVC LATERAL LINE, REFER TO IRRIGATION LEGEND
- (13) 4" GALVANIZED STAPLE. INSTALL OVER TUBING AT SPACING PER SPECS

1 DRIPLINE, TYPE AND DEPTH PER IRRIGATION LEGEND

(2) BLANK POLYETHYLENE TUBING

(3) BARB X MPT ADAPTER

OUTLET

ASSEMBLY

4 SCH. 40 PVC TEE WITH FPT

(5) NON-PRESSURE LATERAL DOWNSTREAM FROM DRIP

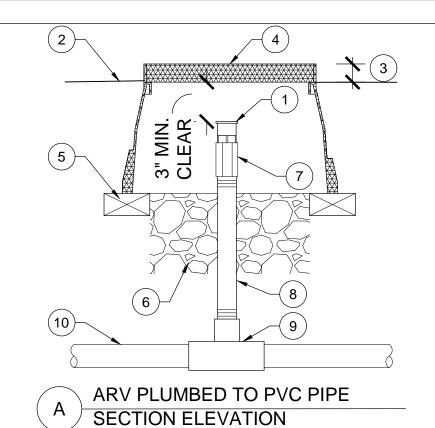
REMOTE CONTROL VALVE

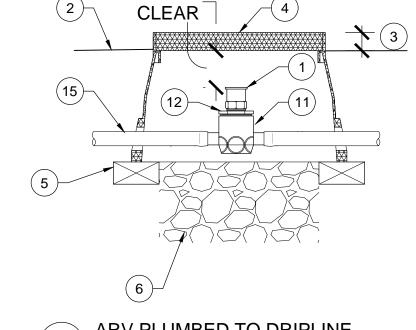
(6) BARBED INSERT 90° ELL FITTING

20 DRIPLINE LAYOUT (TYPICAL)

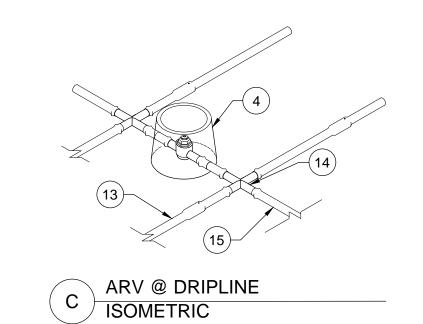
Scale: N.T.S. 19 DRIPLINE TO PVC LATERAL LINE TRANSITION (SUPPLY AND EXHAUST HEADER)

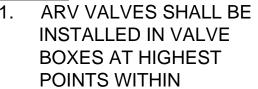
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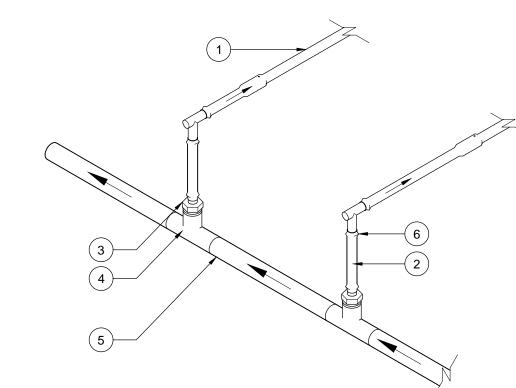
SECTION ELEVATION

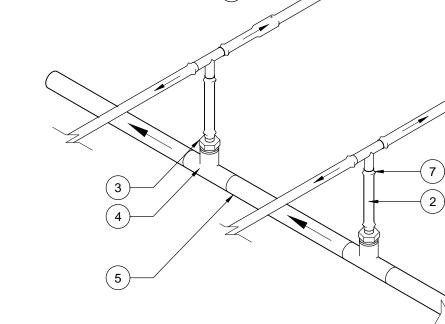




SUB-SURFACE DRIP SYSTEM PER MNF'R GUIDELINES.

2. SEE LEGEND FOR LATERAL DEPTH AND SPACING.





7 BARBED INSERT TEE FITTING

- AIR VACUUM/RELIEF VALVE, REFER TO LEGEND
- FINISH GRADE

CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INC SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

- SET TOP OF VALVE BOX ABOVE FINISH GRADE: 1/2" IN SEED, 1-1/2" IN SOD, 2-1/2" IN PLANTER
- (4) 10" ROUND VALVE BOX, SEE SPECS.
- (5) THREE (3) COMMON BRICKS FOR SUPPORT. CENTER EACH UNDER EDGE OF VALVE BOX EQUIDISTANT FROM EACH OTHER.
- (6) 3/4" CRUSHED ROCK, 6" MIN. DEPTH.

- (7) 1/2" PVC SCH. 80 COUPLING (THxTH)
- (8) 1/2" PVC SCH. 80 NIPPLE (LENGTH AS REQ.)
- 9 PVC REDUCTION TEE WITH 1/2" FEMALE THREADED INLET
- (10) PVC NON-PRESSURE LATERAL LINE. SIZE AND TYPE PER PLAN
- 11) 3/4" FPT COMBINATION TEE (INS x INS x TH)
- 1/2" MPT REDUCER BUSHING.
- (13) DRIPLINE, TYPE AND DEPTH PER LEGEND
- (14) BARBED INSERT TEE FITTING, TYP.
- (15) BLANK POLYETHYLENE TUBING, TYP.

B CENTER FEED MANIFOLD SUPPLY ISOMETRIC

22 AIR VACUUM/RELIEF VALVE

Scale: N.T.S. 21 DRIPLINE MANIFOLD SUPPLY

Scale: N.T.S

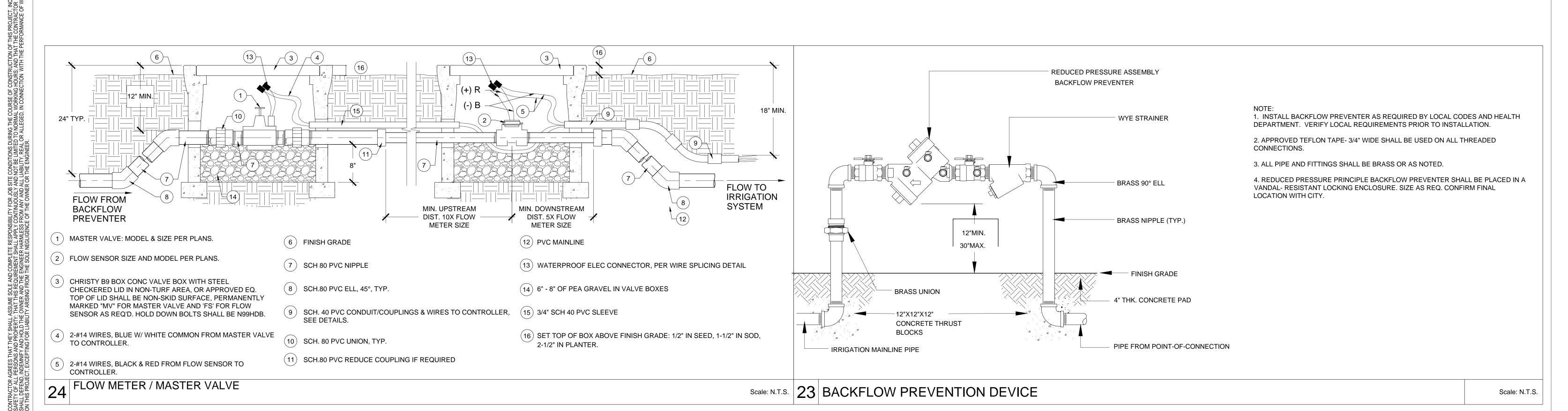
MIG

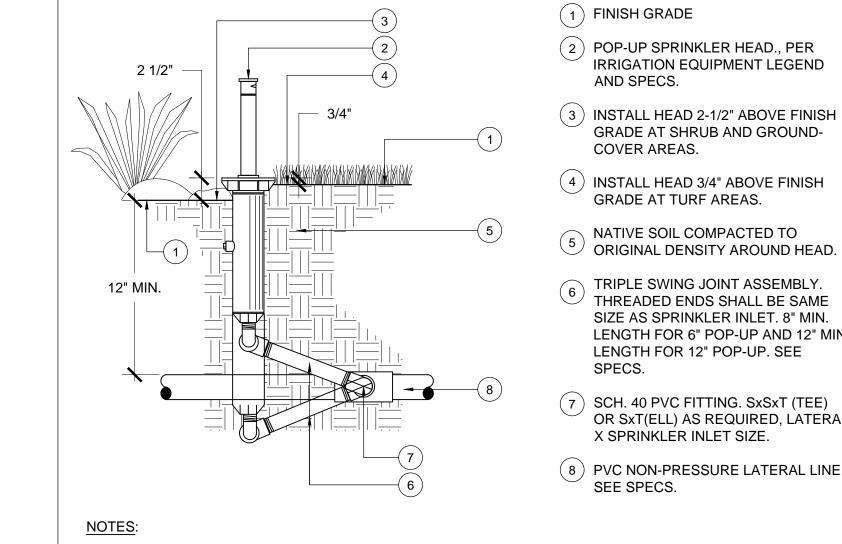
| Date:       | 03-22-2024 | 1 | RESPONSE TO PERMIT COMMENTS/ BID SET |        |      |       |       |          |
|-------------|------------|---|--------------------------------------|--------|------|-------|-------|----------|
| Scale:      | AS SHOWN   |   |                                      |        |      |       |       |          |
| Designed:   | JE         |   |                                      |        |      |       |       |          |
| Drawn:      | CH / MB    |   |                                      |        |      |       |       | ] ((     |
| Checked:    | JE / ME    |   |                                      |        |      |       |       | <b>│</b> |
| Proj. Engr: |            |   | DEVISIONS                            | DESIGN |      | CITY  | APPR. |          |
| File:       | 30902      |   | REVISIONS                            | BY     | DATE | APPR. | DATE  |          |
|             |            |   |                                      |        |      |       |       |          |

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** L4.53 IRRIGATION DETAILS VOICE MAIL: SHEET 46





1 FINISH GRADE

2 POP-UP SPRINKLER HEAD., PER IRRIGATION EQUIPMENT LEGEND AND SPECS.

COVER AREAS.

(4) INSTALL HEAD 3/4" ABOVE FINISH GRADE AT TURF AREAS.

NATIVE SOIL COMPACTED TO ORIGINAL DENSITY AROUND HEAD.

6 TRIPLE SWING JOINT ASSEMBLY. THREADED ENDS SHALL BE SAME SIZE AS SPRINKLER INLET. 8" MIN. LENGTH FOR 6" POP-UP AND 12" MIN LENGTH FOR 12" POP-UP. SEE

7 SCH. 40 PVC FITTING. SxSxT (TEE) OR SxT(ELL) AS REQUIRED, LATERAL X SPRINKLER INLET SIZE.

(8) PVC NON-PRESSURE LATERAL LINE.

1. USE  $\frac{3}{4}$ " TEFLON TAPE WHERE ELL MEETS TEE/ELL.

- 2. INSTALL HEADS PERPENDICULARLY PLUMB TO ADJACENT GRADE.
- 3. ADJUST NOZZLES/HEAD TO PREVENT OVERSPRAY ONTO PAVING, WALLS/FENCES, BUILDINGS, ETC.
- 4. INSTALL HEADS 4" FROM ALL HARDSCAPE EDGES.
- 5. INSTALL HEADS 6" FROM WALLS/ FENCES.

25 POP-UP SPRINKLER

Scale: N.T.S.



03-22-2024 RESPONSE TO PERMIT COMMENTS/ BID SET AS SHOWN Designed CH / MB JE / ME Checked: DESIGN DESIGN CITY APPR.
BY DATE APPR. DATE Proj. Engr: **REVISIONS** 30902



### IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** PUBLIC WORKS INSPECTOR: IRRIGATION DETAILS VOICE MAIL: SHEET 47

### **HYDROZONE CHART/ ZONE TOTALS**

|                             | 2     |                                        |
|-----------------------------|-------|----------------------------------------|
| NAME OF CITY: Los Gatos     | POC 1 | CONTROLLER: C                          |
| PROJECT NAME: Jollyman Park |       | WATER METER SIZE: 2"                   |
| WATER TYPE: Potable         |       | REQUIRED WATER PRESSURE: 30 PSI @ drip |
| LOCATION: Tuscany Place     |       | MAXIMUM PEAK DEMAND: 30 GPM            |

### HYDROZONE CHART

| Valve Station Number | Hydrozone    | Irrigation Method  | Total Valve Circuit<br>Area (SQ. FT.) | % of Total<br>Landscape |
|----------------------|--------------|--------------------|---------------------------------------|-------------------------|
| C1                   | ZONE 3       | SUBSURFACE DRIP    | 1,772                                 | 5.64%                   |
| C2                   | ZONE 3       | SUBSURFACE DRIP    | 536                                   | 1.70%                   |
| C3                   | ZONE 3       | SUBSURFACE DRIP    | 1,010                                 | 3.21%                   |
| C4                   | ZONE 6       | BUBBLER            | 432                                   | 1.37%                   |
| C5                   | ZONE 3       | SUBSURFACE DRIP    | 827                                   | 2.63%                   |
| C6                   | ZONE 3       | SUBSURFACE DRIP    | 471                                   | 1.50%                   |
| C7                   | ZONE 3       | SUBSURFACE DRIP    | 678                                   | 2.16%                   |
| C8                   | ZONE 3       | SUBSURFACE DRIP    | 1,885                                 | 5.99%                   |
| C9                   | ZONE 3       | SUBSURFACE DRIP    | 512                                   | 1.63%                   |
| C10                  | ZONE 3       | SUBSURFACE DRIP    | 860                                   | 2.74%                   |
| C11                  | ZONE 3       | SUBSURFACE DRIP    | 1,087                                 | 3.46%                   |
| C12                  | ZONE 3       | SUBSURFACE DRIP    | 442                                   | 1.41%                   |
| C13                  | ZONE 5       | ROOT WATERING TUBE | 432                                   | 1.37%                   |
| C14                  | ZONE 3       | SUBSURFACE DRIP    | 717                                   | 2.28%                   |
| C15                  | ZONE 6       | BUBBLER            | 326                                   | 1.04%                   |
| C16                  | ZONE 3       | SUBSURFACE DRIP    | 276                                   | 0.88%                   |
| C17                  | ZONE 3       | SUBSURFACE DRIP    | 986                                   | 3.14%                   |
| C18                  | ZONE 3       | SUBSURFACE DRIP    | 335                                   | 1.07%                   |
| C19                  | ZONE 4       | ROOT WATERING TUBE | 432                                   | 1.37%                   |
| C20                  | ZONE 6       | BUBBLER            | 163                                   | 0.52%                   |
| C21                  |              | UNUSED             |                                       |                         |
| C22                  |              | UNUSED             |                                       |                         |
| C23                  |              | UNUSED             |                                       |                         |
| C24                  |              | UNUSED             |                                       |                         |
| A1                   | ZONE 1 - SLA | ROTOR              | 1,657                                 | 5.27%                   |
| A11                  | ZONE 1 - SLA | ROTOR              | 4,654                                 | 14.80%                  |
| A15                  | ZONE 1 - SLA | ROTOR              | 9,918                                 | 31.54%                  |
| A19                  | ZONE 2 - SLA | SPRAY              | 1,035                                 | 3.29%                   |
| A20                  |              | UNUSED             |                                       |                         |
|                      |              | TOTAL:             | 31,443                                | 100.0%                  |

### ZONE TOTALS

| Hydrozone  | Hydrozone Description               | Plant Factor | Total Square Feet | % of Landscape |
|------------|-------------------------------------|--------------|-------------------|----------------|
| ZONE 1 SLA | HIGH WATER USE SPRAY                | 0.7          | 16,229            | 51.61%         |
| ZONE 2 SLA | HIGH WATER USE ROTOR                | 0.7          | 1,035             | 3.29%          |
| ZONE 3     | LOW WATER USE SUBSURFACE DRIP       | 0.3          | 12,394            | 39.42%         |
| ZONE 4     | LOW WATER USE ROOT WATERING TUBE    | 0.3          | 432               | 1.37%          |
| ZONE 5     | MEDIUM WATER USE ROOT WATERING TUBE | 0.5          | 432               | 1.37%          |
| ZONE 6     | MEDIUM WATER USE BUBBLER            | 0.5          | 921               | 2.93%          |
|            |                                     | TOTAL:       | 31,443            | 100.0%         |

### WATER ALLOWANCES/ WATER USE COMPARISON

| POC   | CONTROLLER      | NAME OF CITY: Los Gatos             | (Weather Station)                      |
|-------|-----------------|-------------------------------------|----------------------------------------|
|       |                 | PROJECT NAME: Jollyman Park         | WATER METER SIZE: 2"                   |
| P1    | $\Box$ C $\Box$ | WATER TYPE: Potable                 | REQUIRED WATER PRESSURE: 30 PSI @ drip |
| 1 X X |                 | WATER METER LOCATION: Tuscany Place | MAXIMUM PEAK DEMAND: 30 GPM            |
|       |                 |                                     |                                        |

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

### MAWA = $(Eto)(0.62)[(0.45 \times LA) + (0.55 \times SLA) = GALLONS PER YEAR$ NOTE: TOTAL AREA OF SPORTS FIELD TURF HAS BEEN CALCULATATED AS A SPECIAL LANDSCAPE AREA AS IT QUALIFIES UNDER FIELD PLAY AREAS WITHIN THE PARK. 42.90 = REFERENCE EVAPOTRANSPIRATION IN INCHES PER YEAR (SOURCE: CIMIS)

0.62 = CONVERSION FACTOR TO GALLONS PER SQUARE FEET 0.45 = EVAPOTRANSPIRATION ADJUSTMENT FACTOR AND IRRIGATION EFFICIENCY (ETAF) = LANDSCAPE AREA INCLUDING SLA (SQ. FT.) 0.55 = ADDITIONAL Eto ADJUSTMENT FACTOR FOR SPECIAL LANDSCAPE AREAS

= SPECIAL LANDSCAPE AREA (SQ. FT.)

SUMMARY OF LANSCAPE AREA BY IRRIGATION METHOD OR SLA 17,264 Overhead Irrigation Landscape Area (ft2) 14,179 Drip/Bubbler Irrigation Landscape Area (ft²) 17,264 SLA (ft<sup>2</sup>) Total Landscape Area: 31,443

FORMULA:

MAWA = (Eto)  $\times$  (0.62)  $\times$  [(0.45  $\times$  LA) + ((1.0 - 0.55)  $\times$  SLA))] 628,898 Gallons 84,071.40 Cubic Feet 840.72 HCF 1.93 Acre-feet 0.63 Millions of Gallons

|              | ESTIMATED TO                         | TAL WATER USE (ETWU)        |                   |  |
|--------------|--------------------------------------|-----------------------------|-------------------|--|
| FORMULA:     |                                      |                             |                   |  |
| ETWU = (Eto) | x (0.62) x [(ETAF x Landscape Area)] |                             |                   |  |
| 42.90        | = REFERENCE EVAPOTRANSP              | PIRATION IN INCHES PER YEAR | R (SOURCE: CIMIS) |  |
| 0.62         | = CONVERSION FACTOR TO G             | ALLONS PER SQUARE FEET      |                   |  |
| VARIES       | = PF (WUCOLS IV)                     |                             |                   |  |
|              | 0.3 LOW WATE                         | R-USE PLANTS                |                   |  |
|              | 0.5 MEDIUM W                         | ATER-USE PLANTS             |                   |  |
|              | 0.7 HIGH WATE                        | R-USE PLANTS                |                   |  |
| VARIES       | = IE (IRRIGATION EFFICIENCY          | )                           |                   |  |
|              | 0.75 STREAM RO                       | OTOR/ SPRAY                 |                   |  |
|              | 0.81 DRIP/BUBB                       | LER                         |                   |  |
| VARIES       | = ETAF (ET ADJUSTMENT FOR            | PLANT FACTORS AND IRRIGA    | ATION EFFICIENCY) |  |
|              | SLA ETAF = 1.0                       |                             |                   |  |
| VARIES       | = LANDSCAPE AREA FOR SPE             | CIFIC HYDROZONE             |                   |  |
|              |                                      |                             |                   |  |

### DETAILED SUMMARY BY HYDROZONE TYPE

| Dodesan                                  | Diest Franke         | tuntum tina          | Irrigation         | FTAF            | Lanscape Area      |             |         |
|------------------------------------------|----------------------|----------------------|--------------------|-----------------|--------------------|-------------|---------|
| Hydrozone<br>Number/ Type                | Plant Factor<br>(PF) | Irrigation<br>Method | Efficiency<br>(IE) | ETAF<br>(PF/IE) | (sf <sup>2</sup> ) | ETAF x Area | ETWU    |
| Regular Landscap                         | e Area               |                      |                    |                 |                    |             |         |
| ZONE 3                                   |                      |                      |                    |                 |                    |             |         |
| Shrubs/GC<br>(Low                        | 0.3                  | DRIP                 | 0.81               | 0.36            | 12,394             | 4,437       | 118,025 |
| Water-Use)<br>ZONE 4                     |                      |                      |                    |                 |                    |             |         |
| Trees<br>(Low<br>Water-Use)              | 0.3                  | RWS                  | 0.81               | 0.36            | 432                | 155         | 4,114   |
| ZONE 5<br>Trees<br>(Medium<br>Water-Use) | 0.5                  | RWS                  | 0.81               | 0.60            | 432                | 261         | 6,951   |
| ZONE 6 Vines<br>(Medium<br>Water-Use)    | 0.5                  | DRIP                 | 0.81               | 0.60            | 921                | 557         | 14,819  |

| Special Landscape Areas          |         |        |             |         |
|----------------------------------|---------|--------|-------------|---------|
| ZONES 1 SLA AND 2 SLA            | 1       | 17,264 | 17,264      | 459,188 |
| SPORTS FIELD TURF AREAS ROTOR, S | PRAY    | As     | Noted Above |         |
|                                  | Totals: | 31,443 | 22,117      | 603,097 |

| ETWU = (Eto) x (0.62) x [(ETAF x Landscape Area)] | 603,097   | Gallons             |
|---------------------------------------------------|-----------|---------------------|
|                                                   | 80,622.28 | Cubic Feet          |
|                                                   | 806.22    | HCF                 |
|                                                   | 1.85      | Acre-feet           |
|                                                   | 0.60      | Millions of Gallons |
|                                                   |           |                     |
|                                                   | 628,898   | MAWA                |
|                                                   |           | Surplus             |



| Date:       | 03-22-2024 | 1 | RESPONSE TO PERMIT COMMENTS/ BID SET |    |        |       |       |            |
|-------------|------------|---|--------------------------------------|----|--------|-------|-------|------------|
| Scale:      | AS SHOWN   |   |                                      |    |        |       |       |            |
| Designed:   | JE         |   |                                      |    |        |       |       |            |
| Drawn:      | CH / MB    |   |                                      |    |        |       |       | ( (        |
| Checked:    | JE / ME    |   |                                      |    |        |       |       | \ <b>\</b> |
| Proj. Engr: |            |   | REVISIONS                            |    | DESIGN | CITY  | APPR. |            |
| File:       | 30902      |   | REVISIONS                            | BY | DATE   | APPR. | DATE  |            |
|             |            |   |                                      |    |        |       |       |            |



IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND

AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE

CITY OF CUPERTINO L4.55 IRRIGATION MWELO CALC'S

SHEET 48

CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDI SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

PIN HAL

QUE AGR

QUE SUB

Phormium tenax `Yellow Wave` / New Zealand Flax

Rhamnus californica 'Mound San Bruno' / Coffeeberry

Rhus integrifolia / Lemonade berry

Pinus canariensis / Canary Island Pine

Pinus halapensis / Aleppo Pine

Quercus suber / Cork Oak

Quercus agrifolia / Coast Live Oak

|                                    | <u> </u> | , , , , , , , , , , , , , , , , , , ,                                   |    |         |         |                   |            |        |                          |
|------------------------------------|----------|-------------------------------------------------------------------------|----|---------|---------|-------------------|------------|--------|--------------------------|
| 70.k                               | ANI RED  | Anigozanthos 'Big Red' / Red Kangaroo Paw                               | 18 | 1 Gal.  | 2' o.c. | 3-4'h x 2'w       | L - WUCOLS | Е      | Full sun                 |
| ₹ <b>`</b> }                       | ANI YEL  | Anigozanthos 'Bush Dawn' / Yellow Kangaroo Paw                          | 30 | 1 Gal.  | 2' o.c. | 4'h x 2-3'w       | L - WUCOLS | Е      | Full sun                 |
| AH)                                | ARC HOW  | Arctostaphylos 'Howard McMinn' / Howard McMinn Manzanita                | 54 | 15 Gal. | 5' o.c. | 6'h x 6'w         | L - WUCOLS | Е      | Sun / Shade              |
| CC)                                | CAR CAL  | Carpenteria californica / Bush Anemone                                  | 13 | 5 Gal.  | 6' o.c. | 4'h               | L - PERRY  | Е      | Full sun to part shade   |
| <b>O</b>                           | CAR DIV  | Carex divulsa / Berkeley Sedge                                          | 12 | 1 Gal.  | 18" o.c | 1-2'h x 2'w       | L - WUCOLS | E      | Sun / Shade              |
|                                    | CAL KAR  | Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass         | 14 | 5 Gal.  | 3' o.c. | 3-5`h x 2-3'w     | L - PERRY  | Е      | Full sun / partial shade |
|                                    | COT GOL  | Cotinus coggygria 'Golden Spirit' / Golden Spirit Smoke Tree            | 6  | 15 Gal. | 8' o.c. | 12-16'h x 10-15'w | L - WUCOLS | D      | Full sun to part shade   |
|                                    | COT COG  | Cotinus coggygria / Smoke Tree                                          | 5  | 15 Gal. | 8' o.c. | 10-15'h x 10-18'w | L - WUCOLS | D      | Full sun to part shade   |
|                                    | DOD VIS  | Dodonea viscosa / Hop Bush                                              | 4  | 15 Gal. | 7' o.c. | 10-15'h x 10-15'w | L - WUCOLS | Е      | Full sun to part shade   |
| *                                  | LEO LEO  | Leonotis leonarus / Lion's Tail                                         | 9  | 5 Gal.  | 3' o.c. | 4'h x 4-5'w       | L - WUCOLS | semi-E | Sun                      |
| $\Diamond$                         | LEU RED  | Leucadendron x 'Red Gem' / Red Conebush                                 | 34 | 5 Gal.  | 4' o.c. | 4'h x 4-5'w       | L - WUCOLS | E      | Sun                      |
| •                                  | LEY CON  | Leymus condensatus `Canyon Prince` / Canyon Prince Wild Rye             | 0  | 1 Gal.  | 3' o.c. | 2-3'h x 2-3'w     | L - WUCOLS | Е      | Full sun to part shade   |
|                                    | LOM BRE  | Lomandra longifolia `Breeze` / Mat Rush                                 | 73 | 1 Gal.  | 3' o.c. | 2-3'h x 2-4'w     | L - WUCOLS | Е      | Sun / Shade              |
|                                    | LOR CRI  | Lorapetalum chinense 'Crimson Fire' / Crimson Fire Chinese Fringeflower | 95 | 5 Gal.  | 3' o.c. | 2-3'h x 2-3'w     | L - WUCOLS | Е      | Part shade to sun        |
|                                    | MIM AUR  | Mimulus aurantiacus / Sticky Monkey Flower                              | 12 | 1 Gal.  | 3' o.c. | 2-3'h x 2-3'w     | VL- WUCOLS | Е      | Full sun / partial shade |
| •                                  | MUH CAP  | Muhlenbergia capillaris / Pink Muhly                                    | 51 | 5 Gal.  | 4' o.c. | 3-4'h x 3-4''w    | L - WUCOLS | Е      | Full sun or light shade  |
| $\langle \hat{\mathbf{x}} \rangle$ | MUH LIN  | Muhlenbergia lindheimeri / Lindheimer's Muhly                           | 14 | 5 Gal.  | 4' o.c. | 3-4'h x 3-4'w     | L - WUCOLS | Е      | Full sun or light shade  |
| £                                  | PEN HAM  | Pennisetum alopecuroides 'Hameln' / Dwarf Fountain Grass                | 10 | 1 Gal.  | 3' o.c. | 2-3'h x 1-2'w     | L - WUCOLS | Е      | Full sun to part shade   |
| PS                                 | PHO SUN  | Phormium 'Sunset' / New Zealand Flax                                    | 6  | 5 Gal.  | 4' o.c. | 4-5'h x 4-5'w     | L - WUCOLS | Е      | Sun                      |
|                                    |          |                                                                         |    |         |         |                   |            |        |                          |

|      |                              |     |      | HEIGHT x      | WATER /   | EVGRN/ | SUN / |
|------|------------------------------|-----|------|---------------|-----------|--------|-------|
| CODE | BOTANICAL NAME / COMMON NAME | QTY | CONT | SPACING WIDTH | REFERENCE | DECID  | SHADE |

### **GROUNDCOVER**

(Spreading or used in mass plantings)

No Mow Grass

Mulch Only

| ARC PAC | Arctostaphylos x `Pacific Mist` / Pacific Mist Manzanita           | 2,500 SF | 1 Gal. | 24" o.c. | 1-2'h        | L - WUCOLS | E | Full sun to part shade |
|---------|--------------------------------------------------------------------|----------|--------|----------|--------------|------------|---|------------------------|
| CEA CEN | Ceanothus x `Centennial` / Centennial Ceanothus                    | 861 SF   | 1 Gal. | 48" o.c. | 0.5-1'h      | L - WUCOLS | Е | Full sun to part shade |
| CIS SKA | Cistus x skanbergii / Coral Rockrose                               | 812 SF   | 1 Gal. | 3' o.c.  | 2'h x 3-5' w | L - WUCOLS | Е | Full sun               |
| MYO PAR | Myoporum parvifolium 'Putah Creek' / PC Trailing Myoporum          | 774 SF   | 1 Gal. | 3' o.c.  | 1'h x 8'w    | L - WUCOLS | Е | Full sun to part shade |
| PEN MAR | Penstemon heterophyllus 'margarita bop' / Foothill Penstemon       | 288 SF   | 1 Gal. | 24" o.c. | 1.5-2'h      | L - WUCOLS | Е | Full sun to part shade |
| SAL BEE | Salvia x `Bee`s Bliss` /<br>Sage                                   | 299 SF   | 1 Gal. | 3' o.c   | 1.5'h        | L - WUCOLS | E | Full sun               |
| SAL BAR | Salvia leucantha 'Santa Barbara' /<br>S. Barbara Mexican Bush Sage | 544 SF   | 1 Gal. | 3' o.c   | 3'h x 3'w    | L - WUCOLS | E | Full sun to part shade |
|         |                                                                    |          |        |          |              |            |   |                        |

### **SUNSHINE MIX**

EVGRN/ SUN / SHADE

SHADE

D Full sun

E Full sun

D Full sun to part shade

D Full sun to part shade

D Full sun to part shade

E Full sun to part shade

E Full sun to part shade

Full sun to shade

Full sun to shade

HEIGHT x WIDTH REFERENCE

20-40'h x 15-30'w L - WUCOLS

25-35'h x 25-35'w M - WUCOLS

10-18'h x 10-18'w VL- WUCOLS

30-50'h x 25-45'w M - WUCOLS

15-40'h x 15-30'w L - WUCOLS

50-80'h x 20-35'w L - WUCOLS

30-60'h x 20-40'w L - WUCOLS

40-50'h x 60'w

70'h x 70'w

50'h x 40'w

As Shown

M - WUCOLS

VL- WUCOLS

L - WUCOLS

L - WUCOLS

L - WUCOLS

6-10'h x 10-15'w

Design Note: Place CAL SPE and ESC CAL in small clusters, SAL NEM as single plants and distribute randomly for natural character, using spacing noted.

| 50% | CAL SPE | Calandrinia spectabilis / Rock Purslane                | 81 SF | 1 Gal. | 3' o.c.  | 1-2'h x 3-4' w | L - WUCOLS | D | Full sun |
|-----|---------|--------------------------------------------------------|-------|--------|----------|----------------|------------|---|----------|
| 40% | ESC CAL | Eschscholzia californica / California poppy            | 65 SF | 1 Gal. | 18" o.c. | 1-2'h x 1-2' w | VL- WUCOLS | D | Full sun |
| 10% | SAL NEM | Salvia nemorosa 'Caradonna' /<br>Caradonna Meadow Sage | 16 SF | 1 Gal. | 18" o.c. | 1-2'h x 1-2' w | M - WUCOLS | D | Full sun |

234 SF

421 SF

### **VINES**

| Δ        | DIS BUC | Distictis buccinatoria / Blood Red Trumpet Vine | 27 | 5 Gal.  | As Shown Climber | M - WUCOLS  | Е | Full sun to part shade  |
|----------|---------|-------------------------------------------------|----|---------|------------------|-------------|---|-------------------------|
| $\Delta$ | TEC CAP | Tecomaria capensis /<br>Cape Honeysuckle        | 31 | 5 Gal.  | As Shown Climber | L-M- WUCOLS | E | Full sun to part shade  |
|          | TRA JAS | Trachelospermum jasminoides / Star Jasmine      | 17 | 1 Gal.  | As Shown Climber | M - WUCOLS  | Е | Full sun or light shade |
|          | WIS SIN | Wisteria sinensis                               | 12 | 15 Gal. | As Shown Climber | M - WUCOLS  | D | Full sun to part shade  |

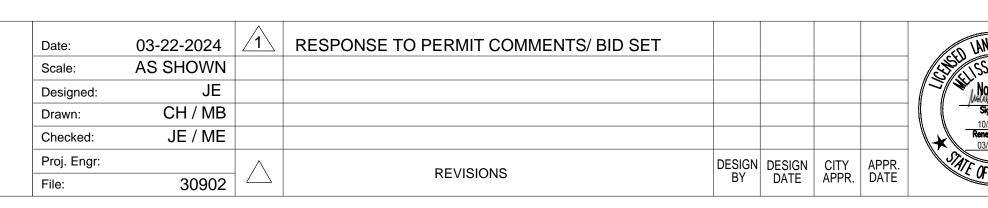
### **BIORETENTION PLANTS**

\* PLACE 3 INCHES OF NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS AND SIDE SLOPES

|                                           | IRI DOU | Iris douglasiana /<br>Douglas Iris                 | 399 SF | 1 Gal. | 2' o.c. | 2'h x 2'w | L - WUCOLS | E | Full sun or light shade |
|-------------------------------------------|---------|----------------------------------------------------|--------|--------|---------|-----------|------------|---|-------------------------|
| V < \ > \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | JUN ELK | Juncus patens 'Elk Blue' /<br>California Gray Rush | 369 SF | 1 Gal. | 2' o.c. | 2'h x 2'w | L - WUCOLS | E | Full sun or light shade |

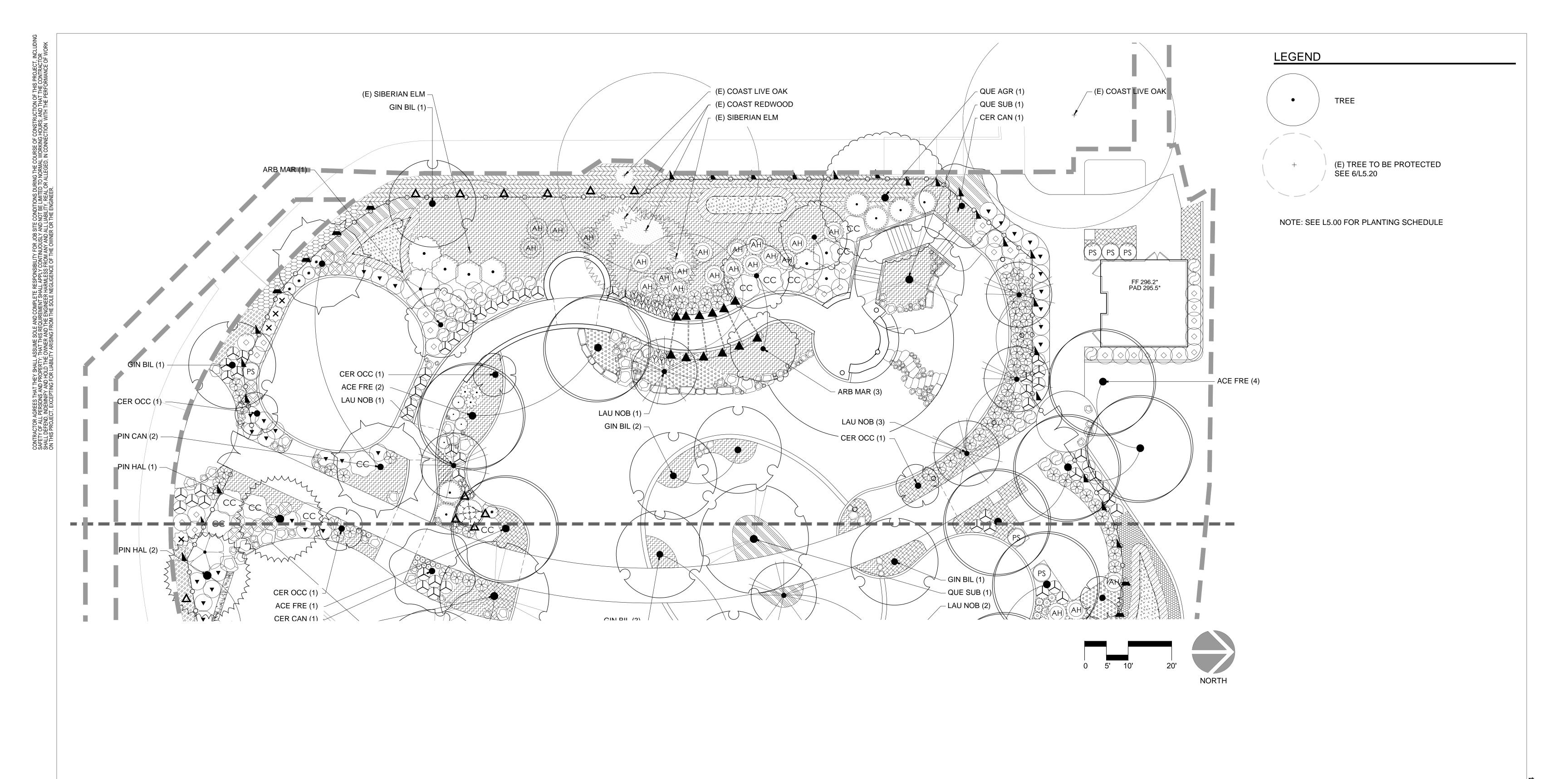
### **PLANTING NOTES:**

- 1. ALL UNDERGROUND UTILITIES SHALL BE LOCATED BEFORE START OF WORK.
- 2. ALL GRADES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLANTING OF ANY PLANT MATERIALS.
- 3. CONTRACTOR SHALL LAYOUT TREES, SHRUBS AND GROUND COVERS AS SHOWN ON THE PLANS. LAYOUT OF PLANT MATERIALS, WHILE STILL IN CONTAINERS, SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY DAMAGE OR DESTRUCTION TO THE EXISTING PLANT MATERIALS AND TO RESTORE IT TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER.
- 5. REFER TO SPECIFICATIONS FOR SOIL REQUIREMENTS, AMENDMENTS AND MORE PLANTING INFORMATION.
- 6. TREE, SHRUB AND GROUND COVER AREAS SHALL RECEIVE WEED CONTROL TREATMENT AS SPECIFIED IN THE ACCOMPANYING SPECIFICATIONS.
- 7. THE AREA OF GROUND COVER IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREA WHICH IS
- 8. UPON RECEIPT OF "NOTICE TO PROCEED", THE CONTRACTOR SHALL ORDER PLANT MATERIAL TO INSURE ADEQUATE QUANTITIES AND SIZES OF PLANT MATERIAL WILL BE AVAILABLE. COPY OF THE NURSERY INVOICE
- 9. ALL PLANTS SHALL BE TRUE TO NAME, AND ONE OF EACH BUNDLE OR LOT SHALL BE TAGGED WITH THE NAME AND SIZE OF THE PLANT. IN ACCORDANCE WITH THE STANDARD OF PRACTICE RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 10. AFTER PLANTING IS COMPLETE, FURNISH AND SPREAD MULCH TO 3" DEPTH OVER THE ENTIRE PLANTED AREA. MULCH SHALL BE PER SPECS. QUANTITY OF MULCH SHALL BE THE CONTRACTORS RESPONSIBILITY. SUBMIT SAMPLE PRIOR TO DELIVERY TO THE PROJECT SITE PER SPECS.
- 11. EXISTING PLANTING TO REMAIN WHICH IS DAMAGED DURING CONSTRUCTION, SHALL BE RESTORED TO PREEXISTING CONDITIONS WITH THE SAME PLANT MATERIALS IN MATURE SIZE.
- 12. EXISTING TURF DAMAGED DURING IRRIGATION AND UTILITY TRENCHING SHALL BE RESTORED OR REPAIRED TO MATCH EXISTING TURF.
- 13. ALL GROUND COVER SHALL BE TRIANGULARLY SPACED WITHIN EACH PLANTING AREA.

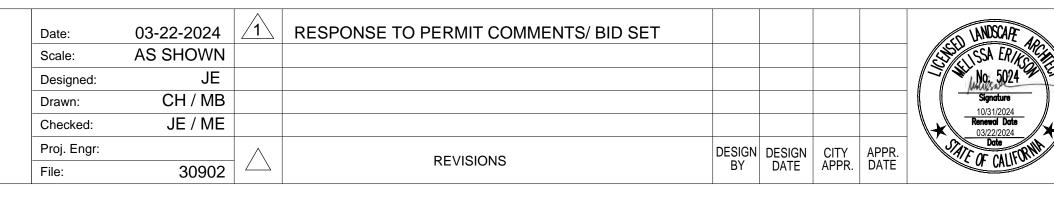


### IMPROVEMENT PLANS FOR

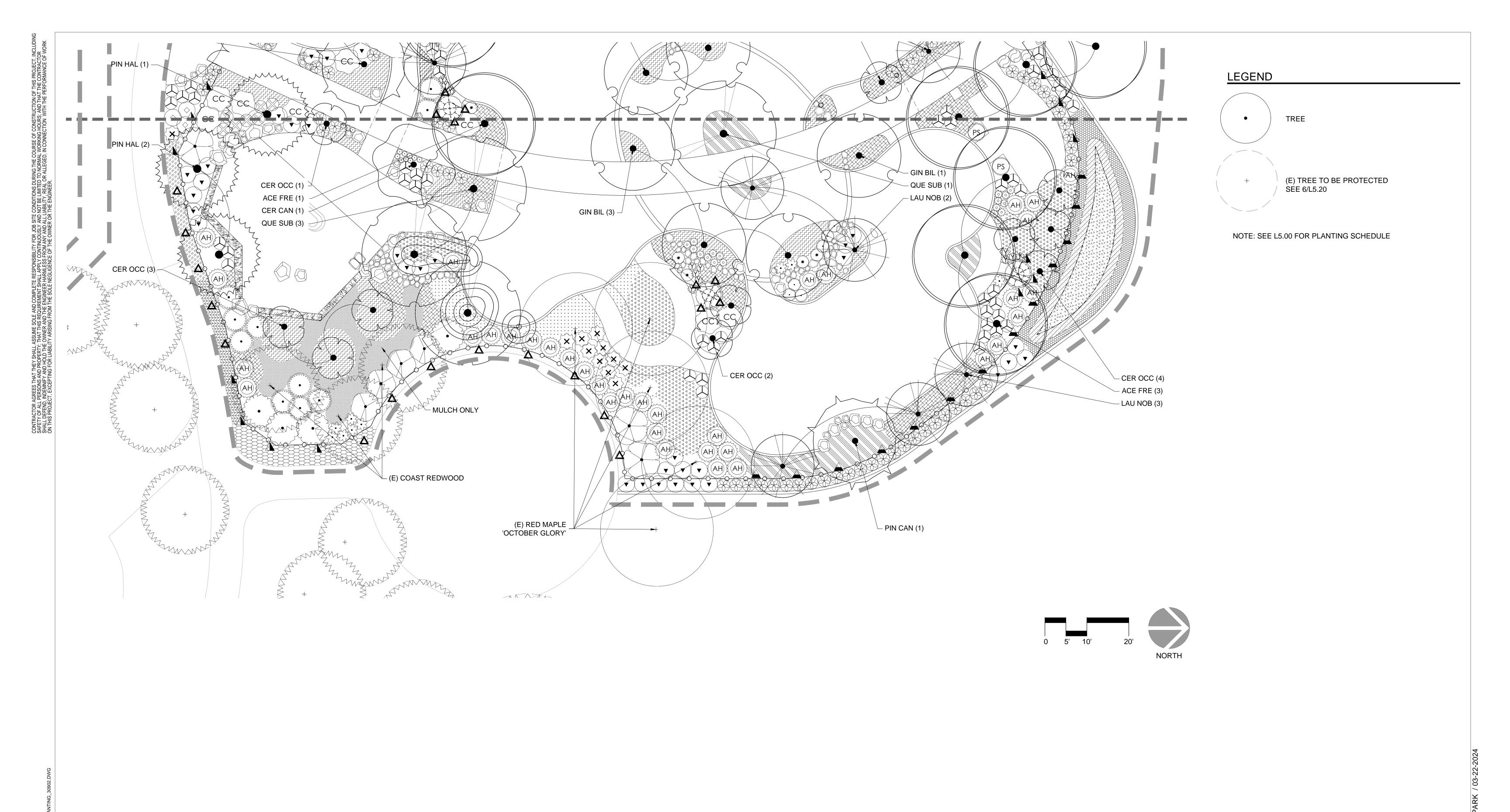
| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO       |
|-------------------------------------|----------------------------|
| PUBLIC WORKS INSPECTOR:             | L5.00<br>PLANTING SCHEDULE |
| VOICE MAIL:                         | SHEET 49                   |



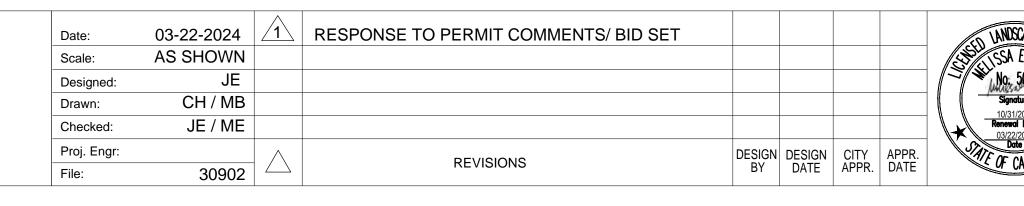




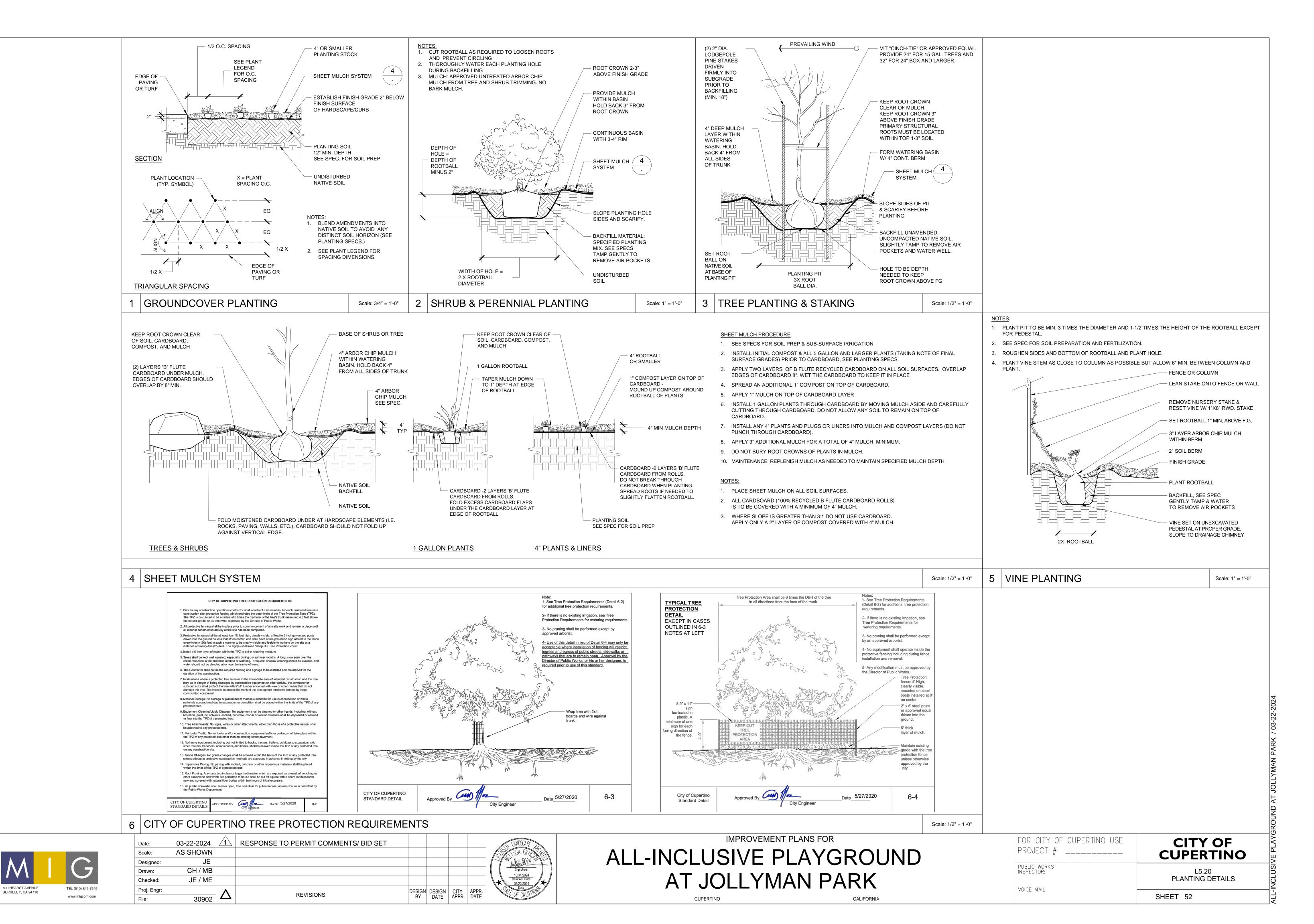
| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO          |
|-------------------------------------|-------------------------------|
| PUBLIC WORKS INSPECTOR:             | L5.10<br>PLANTING PLAN - WEST |
| VOICE MAIL:                         | SHEET 50                      |



| M                                       | G                  |
|-----------------------------------------|--------------------|
| 800 HEARST AVENUE<br>BERKELEY, CA 94710 | TEL (510) 845-7549 |
|                                         | unuu migaam aam    |



| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO          |
|-------------------------------------|-------------------------------|
| PUBLIC WORKS INSPECTOR:             | L5.11<br>PLANTING PLAN - EAST |
| VOICE MAIL:                         | SHEET 51                      |



CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, IN SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF VON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

### **ABBREVIATIONS**

INTERMEDIATE DISTRIBUTION FRAME

INTERMEDIATE METAL CONDUIT

**ELECTRICAL METALLIC TUBING** EOL END OF LINE RESISTOR AMPERE FRAME, AMPERE FUSE EQP **EQUIPMENT** ABOVE FINISHED FLOOR FIRE ALARM FACP AMPERE INTERRUPTING CAPACITY FIRE ALARM CONTROL PANEL ARCHITECTURAL (F) **FUTURE** AMPERE SWITCH FIN **FINISH** AMPERE TRIP FLR FLOOR AUTOMATIC TRANSFER SWITCH G, GND GROUND **GALVANIZED RIGID CONDUIT** 

IMC

INFO

NFPA

BREAKER GRC BUILDING HGT HEIGHT CONDUIT **HORSEPOWER** CABLE TELEVISION INTERCOM

CATV CB CIRCUIT BREAKER CBC CALIFORNIA BUILDING CODE CANDELA CEC CALIFORNIA ELECTRICAL CODE CALIFORNIA FIRE CODE CFC CKT CIRCUIT **CENTER LINE** CLG

DISTRIBUTION

DRAWING

**EXISTING** 

**ELECTRICAL** 

**EMERGENCY** 

DISTRIBUTION PANEL

**ARCH** 

ATS

BLDG

CO

DIST

DWG

**ELEC** 

**₽ □ ○** \$

 $\Psi \square \emptyset$ \$

\_\_\_\_\_

— E ———

CEILING CONDUIT ONLY COMMUNICATIONS COMM CSFM CALIFORNIA STATE FIRE MARSHALL CTR CENTER DEMOLISH DET DETAIL DIMENSION

**NEW VS. EXISTING** 

(E) CONDUIT - TO BE REMOVED.

(N) DEVICE OR EQUIP (EXAMPLE)

(E) DEVICE OR EQUIP (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

CONDUIT - FLEX WITH CONNECTION.

CONDUIT - EMERGENCY POWER SYSTEM.

CONDUIT - EXPOSED.

CONDUIT - STUB UP.

CONDUIT - CAPPED.

CONDUIT - STUB DOWN.

CONDUIT - CONTINUATION.

IDENTIFIER. "X" = SYSTEM:

F = FIRE ALARM

L = LIGHTING

C = COMMUNICATIONS

P = POWER

CONDUIT.

(N) CONDUIT - CONCEALED IN WALLS OR CEILING.

(E) CONDUIT - CONCEALED IN WALLS OR CEILING.

(E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

CONDUIT - CONCEALED IN WALLS OR CEILING.

CONDUIT - UNDERGROUND / DIRECT BURIAL

CONDUIT HOME RUN TO PANEL, TERMINAL CABINET, ETC.

APPLICABLE CODES. ALL 20A/1P BRANC CIRCUITS SHALL

GROUNDS RUN A MAXIMUM OF 3 BRANCH CIRCUITS PER

SURFACE MOUNTED WIRE RACEWAY - INSTALL AT + 36"

IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED.

SURFACE MOUNTED WIRE RACEWAY UP/DOWN

DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX

SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND

BE #12 AWG WIRES WITH #12 AWG NEUTRALS AND

JUNCTION BOX KAIC KILOAMPERE INTERRUPTING CAPACITY KILOVOLT KVA KILOVOLT AMPERE KW KILOWATT LTG LIGHTING LOW VOLTAGE MAXMAXIMUM **KCMIL** THOUSAND CIRCULAR MILS MAIN DISTRIBUTION FRAME MDF MECH **MECHANICAL** MANHOLE MIN MINIMUM MOUNTED MTG MOUNTING

NORMALLY CLOSED

ASSOCIATION

NATIONAL FIRE PROTECTION

INFORMATION

NOT IN CONTRACT NIEC NOT IN ELECTRICAL CONTRACT NO NORMALLY OPEN NOT TO SCALE NUMBER

NTS NUM, # ON CENTER PUBLIC ADDRESS PULL BOX POWER FACTOR PHASE

PANEL PVC POLYVINYL CHLORIDE EXISTING TO BE RELOCATED REQD REQUIRED

REQT(S) REQUIREMENT(S) ROOMRSC RIGID STEEL CONDUIT SEE ARCHITECTURAL DOCUMENTS SHT SPD SURGE PROTECTIVE DEVICE

SIGNAL TERMINAL CABINET SWITCH SWBD SWITCHBOARD T24 CALIFORNIA ENERGY CODE TERMINAL CABINET TEL TELEPHONE

TYP TYPICAL UON UNLESS OTHERWISE NOTED WATT, WIRE WEATHERPROOF XFMR

### TRANSFORMER

PANELBOARD - FLUSH MOUNTED.

TRANSFORMER

GROUND ROD / ch `

"CH" = EQUIPMENT TYPE "2" = UNIQUE IDENTIFIER

### POWER DISTRIBUTION SYMBOLS (SINGLE LINE)

m

TRANSFORMER (SINGLE LINE)

**⊸**~

STANDARD / EMERGENCY PANEL BOARD

CIRCUIT BREAKER, 3-POLE UON. **GROUND ROD** 

METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER, SEE SCHEDULE. U = UTILITY METER M# = OWNER METER, SEE SPECIFICATIONS METER INSTALLED WITHIN EQUIPMENT

METER IN STANDALONE ENCLOSURE **CURRENT TRANSFORMERS** 

### **LUMINAIRE SYMBOLS**

LUMINAIRE - POLE MOUNT SINGLE HEAD.

### POWER DISTRIBUTION SYMBOLS (PLANS)

PANELBOARD - SURFACE MOUNTED.

EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE

### 13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

DRAWING INDEX GENERAL INFORMATION

OWNERSHIP OF INSTRUMENTS OF SERVICE

ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD

THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE

PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL

COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING

PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION

DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE

PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND

DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE

BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS

COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE

COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY

CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE

CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY

THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR

THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE

**CODES AND STANDARDS** 

2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART

2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24,

10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND

**GENERAL SYMBOLS** 

"E2.1" DENOTES SHEET NUMBER.

SECTION OR ELEVATION DESIGNATION

"E1.0" DENOTES SHEET NUMBER.

"2" DENOTES SECTION OR ELEVATION NUMBER

SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET

FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE

CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

"3" DENOTES DETAIL OR PLAN NUMBER

PLAN OR DETAIL DESIGNATION

"-" DENOTES SAME SHEET.

-" DENOTES SAME SHEET.

2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).

2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).

5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).

2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).

2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).

11. 2016 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.

GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.

ENLARGED SITE PLAN - EAST

12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY

9. 2016 NFPA 72 NATIONAL FIRE ALARM CODE.

(COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR

OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS

PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT

SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION

CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED

THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION

DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF

THE COPYRIGHT THERETO.

CONSULTANT.

2,TITLE 24, CCR).

DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY

E1.00 OVERALL SITE PLAN E1.01 OVERALL SITE PLAN E1.10 **ENLARGED SITE PLAN - WEST** 

DETAILS

E1.11

### **GENERAL NOTES**

- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.
- BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION
- OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
- ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.
- ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.
- ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.
- ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE
- CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS
- NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE
- INCLUDE UTILITY COMPANY'S "CONTRACT-DOCUMENTS" WITH THE BID. REMAIN IN CONTACT WITH THE UTILITY COMPANY'S ENGINEERING DEPARTMENT THROUGHOUT THE PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
- PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.
- ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.
- CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.
- SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH TITLE 24, CBC SECTION 1632A.
- PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND

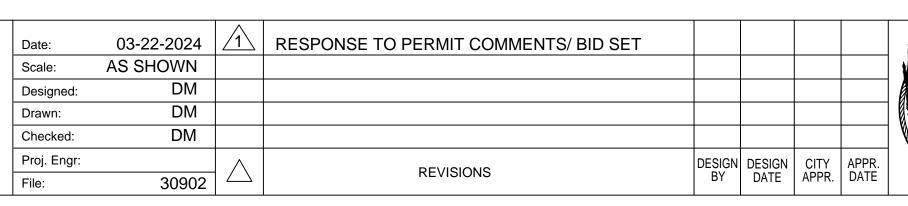
MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL

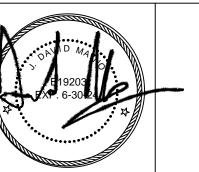
BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN

+15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM

ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

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IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

(XXXX)

(XXXX)

FOR CITY OF CUPERTINO USE CITY OF PROJECT # \_\_\_\_\_ **CUPERTINO** PUBLIC WORKS INSPECTOR: GENERAL INFORMATION VOICE MAIL:

SHEET

53

### **GENERAL NOTES**

- A. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE INSTALLATION AND/OR
- B. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.
- C. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE LIGHTING PULL BOXES AS "LIGHTING." LABEL UTILITY PULL BOXES PER UTILITY REQUIREMENTS.
- D. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.
- E. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.
- F. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.
- G. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.
- H. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.
- I. PRIOR TO COMMENCING WORK, CONTRACTOR SHALL SCHEDULE A FIELD MEETING WITH THE INSPECTOR AND CITY REPRESENTATIVE, AND REVIEW THE FOLLOWING:
- VERIFY ALL EXISTING LIGHT FIXTURES ARE OPERATIONAL AND NOTE ANY EXISTING DAMAGE TO POLES. PROVIDE PHOTOS OF ANY DAMAGED EQUIPMENT.
- ARRANGE FOR CITY STREET LIGHT WORKER TO MARK UNDERGROUND CONDUITS AND WIRING WITHIN THE PROJECT AREA.
- VERIFY WITH CITY REPRESENTATIVE THE ALLOWABLE TIME FOR LIGHTS TO BE OFF IF CONSTRUCTION CAUSES DAMAGE OR REQUIRES POWER TO BE DISCONNECTED
- J. ANY DAMAGE TO EXISTING EQUIPMENT OR SYSTEMS, NO MATTER HOW MINOR, SHALL BE REPORTED IMMEDIATELY TO THE CITY REPRESENTATIVE AND ALL REPAIRS SHALL BE MADE BY A QUALIFIED ELECTRICIAN AT THE CONTRACTOR'S EXPENSE. REPAIR WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL IT IS TESTED AND RESTORED TO A FULLY FUNCTIONAL STATE AND SIGNED OFF BY CITY REPRESENTATIVE.
- K. PRIOR TO COMPLETION OF CONSTRUCTION, VERIFY THAT ALL LIGHT FIXTURES ARE IN WORKING ORDER AND THAT ALL DAMAGE HAS BEEN REPAIRED.
- L. CONTRACTOR SHALL COORDINATE WITH CITY REPRESENTATIVE TO UPDATE ALL RELOCATED LIGHT FIXTURES AND ASSOCIATED CONDUIT AND WIRING IN CITYWORKS THROUGH THE GIS GROUP.

### **# SHEET NOTES**

- 1. (E) UTILITY POLE TO REMAIN AS POINT OF CONNECTION FOR NEW RESTROOM BUILDING SÉRVICE. COORDINATE WITH PG&E REPRESENTATIVE FOR CONNECTION REQUIREMENTS.
- 2. PG&E SHALL PROVIDE ALL TRENCHING AND CONDUIT ACROSS S. STELLING RD. CONTRACTOR SHALL PROVIDE ALL ON-SITE TRENCHING AND CONDUIT. COORDINATE WITH PG&E REPRESENTATIVE FOR POINT OF CONNECTION TO PG&E TRENCH AND CONDUIT.

**OVERALL SITE PLAN** 

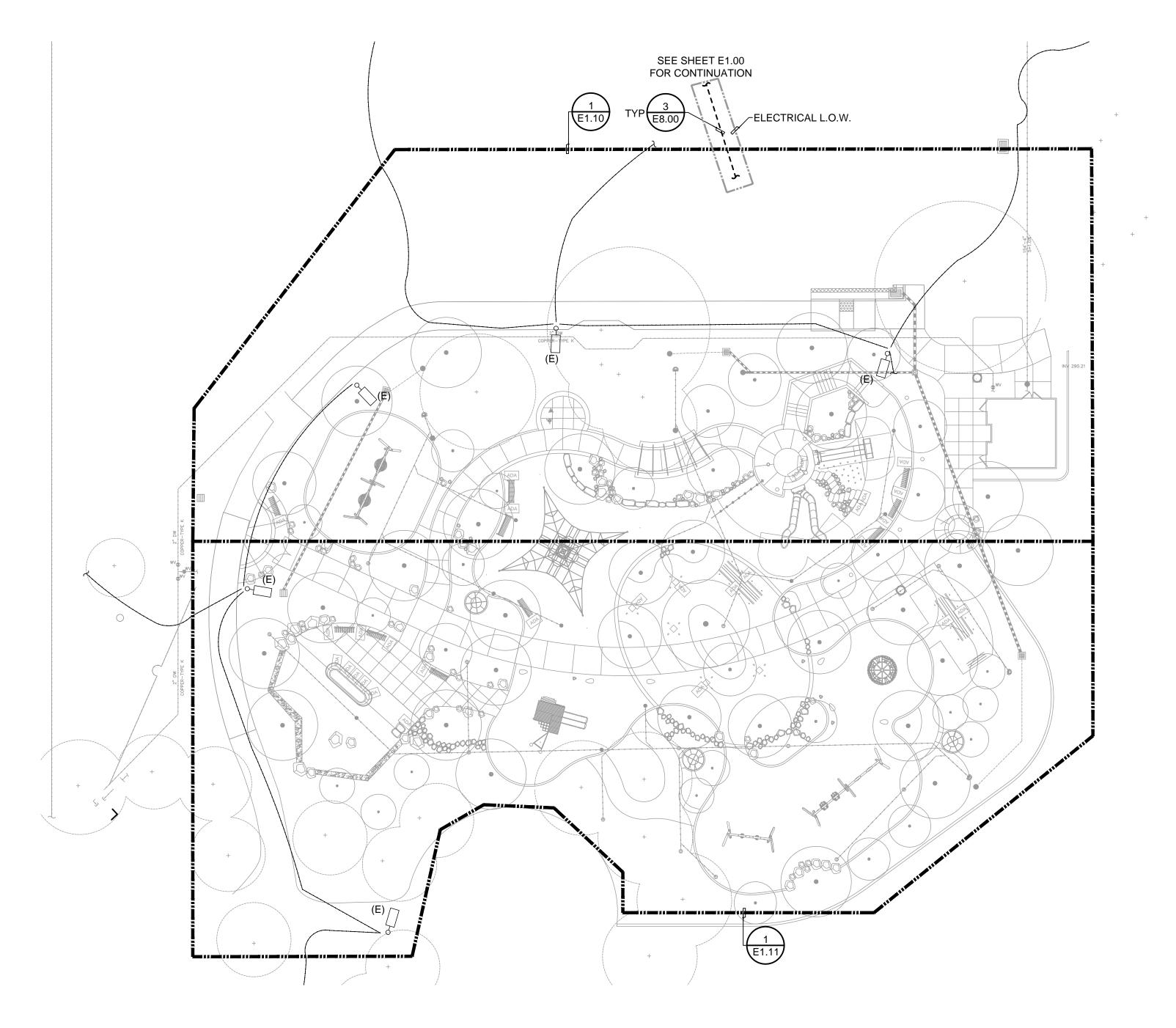
AS SHOWN

DESIGN DESIGN CITY APPR. DATE

IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

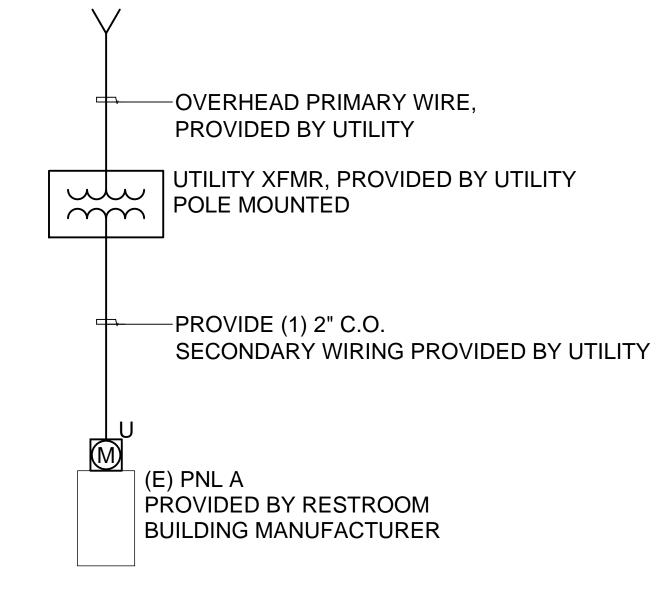
| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO       |
|-------------------------------------|----------------------------|
| PUBLIC WORKS<br>INSPECTOR:          | EI.00<br>OVERALL SITE PLAN |
| VOICE MAIL:                         | SHEET 54                   |



### **GENERAL NOTES**

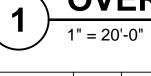
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- B. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.
- C. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE LIGHTING PULL BOXES AS "LIGHTING." LABEL UTILITY PULL BOXES PER UTILITY REQUIREMENTS.
- D. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.
- E. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.
- F. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.
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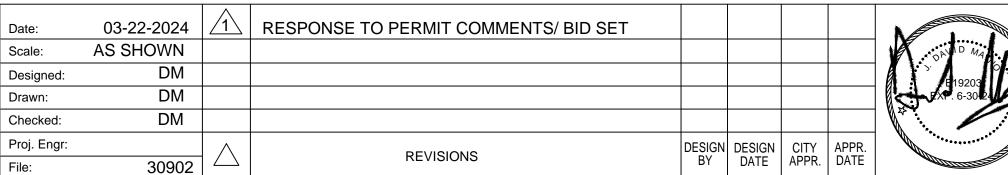








Drawn:



IMPROVEMENT PLANS FOR

## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO       |
|-------------------------------------|----------------------------|
| PUBLIC WORKS<br>INSPECTOR:          | EI.0I<br>OVERALL SITE PLAN |
| VOICE MAIL:                         | SHEET 55                   |

NOVEMBER 2023

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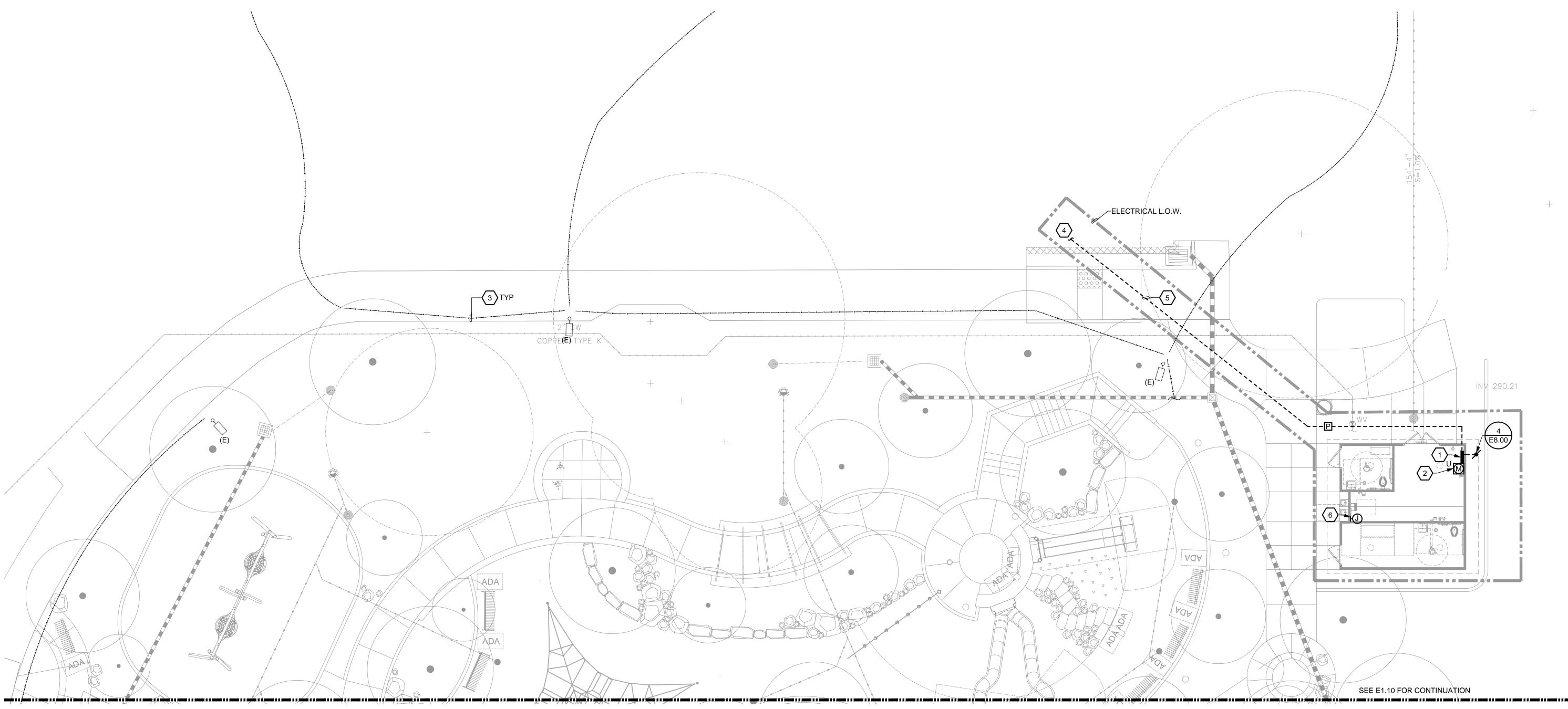
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### **SHEET NOTES**

- 1. PANELBOARD PROVIDED BY RESTROOM BUILDING MANUFACTURER. PROVIDE (3) #3/0 + (1) #6G 2"C BETWEEN METER SOCKET AND PANEL.
- 2. PROVIDE NEW METER SOCKET ADJACENT TO PANELBOARD IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. PROVIDE CUTSHEET OF PROPOSED METER SOCKET TO UTILITY REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALL.
- 3. (E) CONDUITS AND BOXES FEEDING (E) LIGHT FIXTURES TO REMAIN SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. LOCATIONS SHOWN ARE APPROXIMATE AND EXACT SHALL BE CONFIRMED PRIOR TO ANY DEMOLITION WORK.
- 4. SEE E100 FOR CONTINUATION.
- 5. SITE CONTRACTOR SHALL STUB CONDUITS TO WITHIN 5'-0" OF BUILDING FOOTPRINT. RESTROOM BUILDING MANUFACTURER SHALL INTERCEPT CONDUITS AND CONTINUE THEM TO METER AND PANEL.
- 6. PROVIDE 120V/1 CONNECTION TO IRRIGATION CONTROLLER. COORDINATE WITH MODULAR BUILDING MANUFACTURER TO PROVIDE POWER FROM SPARE 20A/1P BKR IN PNL "A" AND CIRCUIT WITH (2) #12 + (1) #12G 3/4" C.

### **GENERAL NOTES**

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- H. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.



## 1 ENLARGED SITE PLAN - WEST

**REVISIONS** 

AS SHOWN

30902

Designed:



DESIGN DESIGN CITY APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CALIFORNIA

| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO               |
|-------------------------------------|------------------------------------|
| PUBLIC WORKS INSPECTOR:             | EI.I0<br>ENLARGED SITE PLAN - WEST |
| VOICE MAIL:                         | OLIEFT 50                          |

### **# SHEET NOTES**

DESIGN DESIGN CITY APPR. DATE

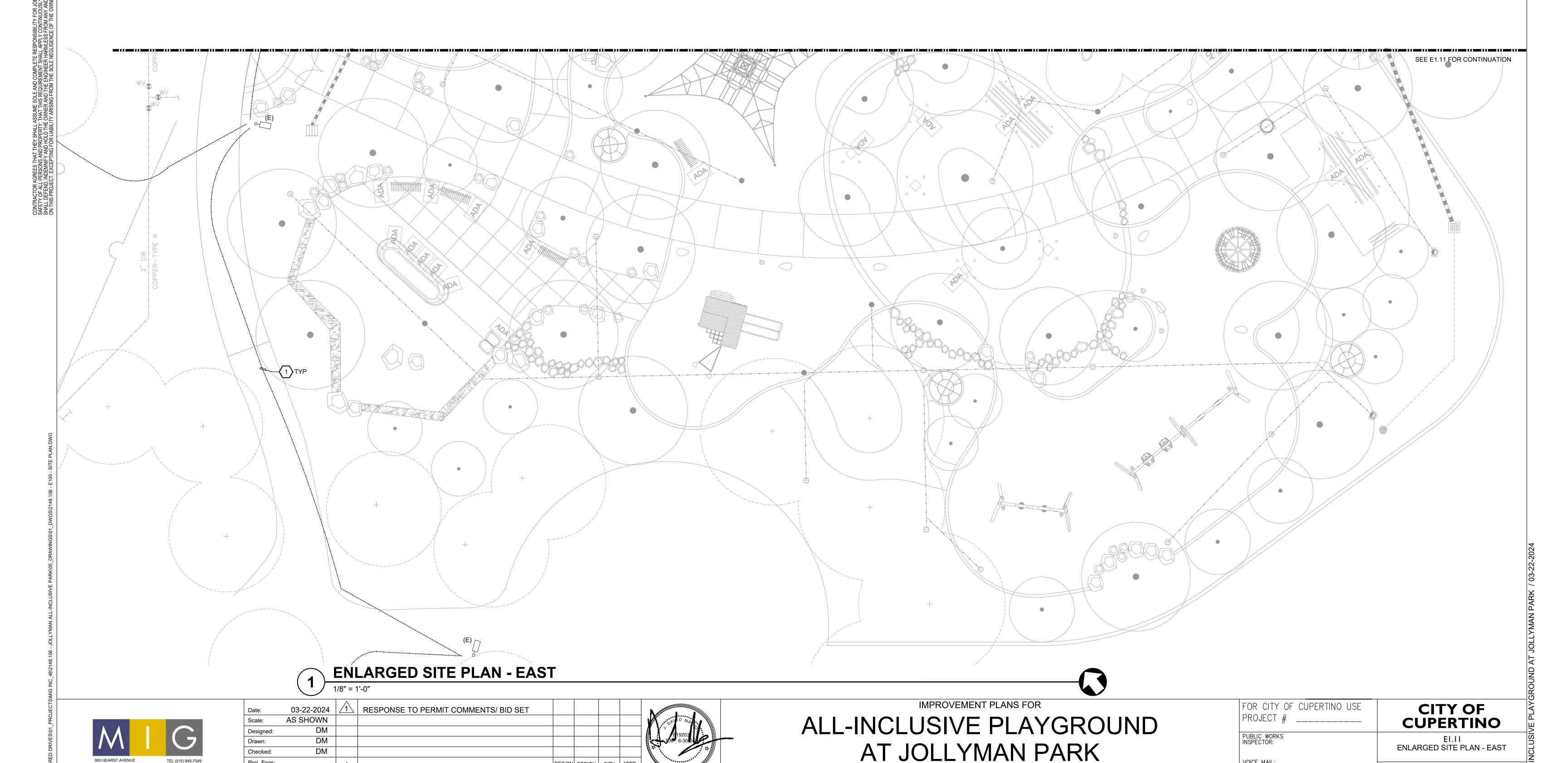
1. (E) CONDUITS AND BOXES FEEDING (E) LIGHT FIXTURES TO REMAIN SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. LOCATIONS SHOWN ARE APPROXIMATE AND EXACT SHALL BE CONFIRMED PRIOR TO ANY DEMOLITION WORK.

### **GENERAL NOTES**

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- H. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS

VOICE MAIL:

SHEET 57



NOVEMBER 2023

Proj. Engr:

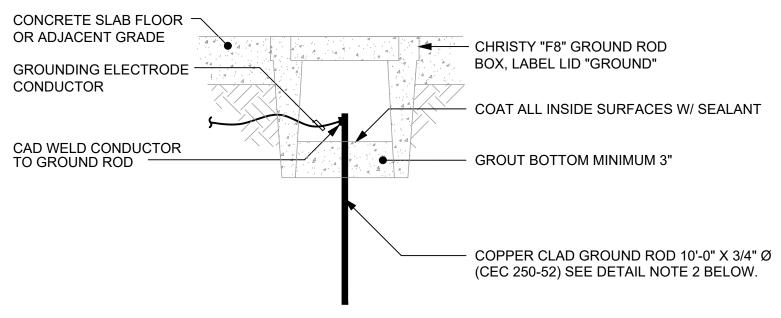
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**REVISIONS** 

### **DETAIL NOTES**

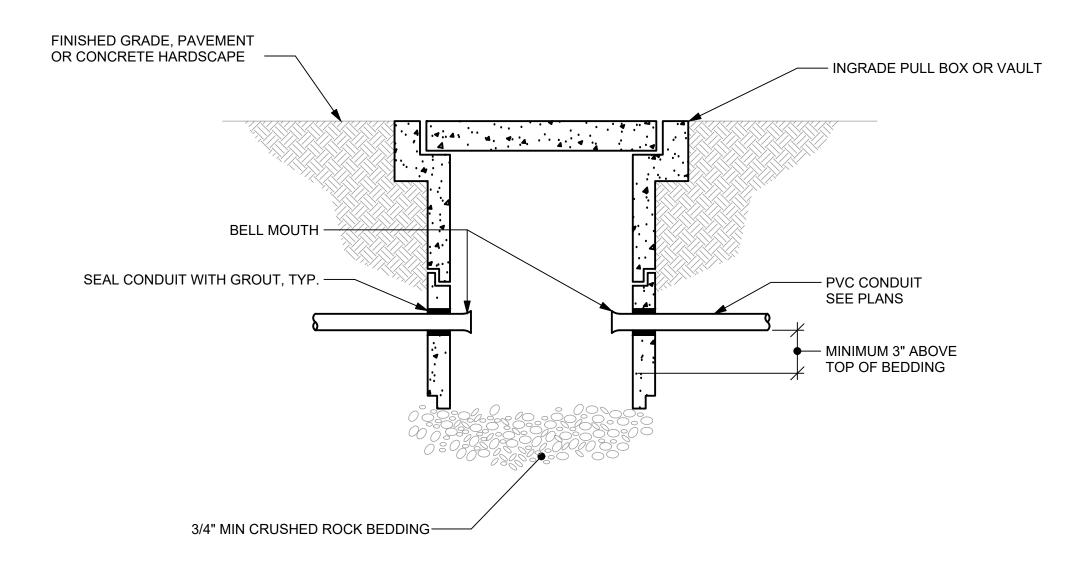
- 1. DETAIL PROVIDED FOR REFERENCE ONLY. PROVIDE TRENCH DIMENSIONS AND LAYOUT PER LATEST PG&E GREENBOOK REQUIREMENTS.
- 2. QUANTITY OF CONDUITS SHOWN IS FOR EXAMPLE ONLY. PROVIDE QUANTITY OF CONDUITS AS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED PER PG&E GREENBOOK REQUIREMENTS.



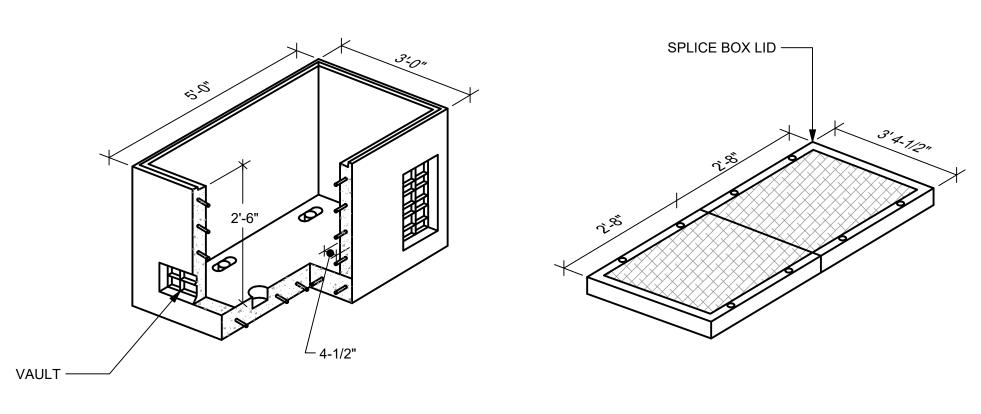


- <u>DETAIL NOTES</u>1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-122.
- 2. PROVIDE A MINIMUM OF (1) GROUND ROD AND GROUND ROD BOX, LOCATED NEAR MAIN SERVICE EQUIPMENT. CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AND GROUND ROD BOXES AS REQUIRED. (CEC 250-56)
- 3. GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY. PROJECT CONTRACTOR IS NOT ELIGIBLE TO RUN TEST.





# **INGRADE PULL BOX CONDUIT TERMINATION**



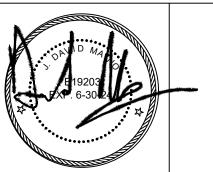
### **DETAIL NOTES**

1. HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS. CONFORM WITH PG & E REQUIREMENTS.





RESPONSE TO PERMIT COMMENTS/ BID SET 03-22-2024 AS SHOWN Designed: DM Drawn: DESIGN DESIGN CITY APPR. DATE Proj. Engr: **REVISIONS** 30902



ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

IMPROVEMENT PLANS FOR

| FOR CITY OF CUPERTINO USE PROJECT # | CITY OF<br>CUPERTINO |
|-------------------------------------|----------------------|
| PUBLIC WORKS INSPECTOR:             | E8.00<br>DETAILS     |
| VOICE MAIL:                         | SHEET 58             |

# GENERAL NOTES

### GENERAL

Dimensions refer to rough concrete surfaces, face of studs, face of concrete block, top of sheathing, or top of slab, unless otherwise indicated. The Contractor shall verify all dimensions prior to the start of construction. The Architect shall be notified of any discrepancies or inconsistencies.

All drawings are considered to be a part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the Architect prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any code requirements shall be corrected by the Contractor at their own expense and at no expense to the owner or Architect.

Notes and details on the structural drawings shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.

All work shall conform to the minimum standards of the following codes:

2022 California Building Code, which comprises Title 24, Part 2 of the California Code of Regulations, as adopted by the California Building Standards Commission referred to here as "The California Building Code, 2022 Edition" or "the code", and any other regulating agencies which have authority over any portion of the work, including the State of California Division of Industrial Safety, and those additional codes and standards including, but not limited to, the following incorporated codes listed below, and in these structural notes and specifications.

American Society of Civil Engineers: ASCE 7-16 with Supplement 1, Minimum Design Loads for Buildings and Other Structures including Supplement No. 1 and 2.

American Concrete Institute (ACI): ACI 318-19 Bldg. Code Requirements for Structural Concrete and Requirements for Structural Concrete and Commentary

American Institute of Steel Construction (AISC): AISC 360-16 Specification for Structural Steel Buildings

American Institute of Steel Construction (AISC): Steel Construction Manual 15th Edition

American Welding Society: AWS D1.1:2020 Structural Welding Code - Steel

ASTM specifications on the structural drawings shall be of the latest version, unless otherwise noted.

Refer to the architectural drawings for the following:

Dimensions not shown on the structural drawings. Size and location of all concrete curbs, equipment pads, pits, floor drains, slopes, depressed areas, change in level, chamfers, grooves, inserts, etc.

Refer to the mechanical, plumbing, and electrical drawings for the following:

Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc., except as noted.

Electrical conduit runs, boxes, and outlets in walls and slabs. Concrete inserts for electrical, mechanical, or plumbing fixtures. Size and location of machine or equipment bases or anchor bolts for motor mounts.

The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing and shoring for loads due to construction equipment, etc. Observation visits to the site by the Engineer shall not include inspection of the aforementioned items.

Contractor shall investigate the site, during clearing and earthwork operations, for filled excavations or buried structures, such as cesspools, cisterns, foundations, etc. If any such structures are found, the Engineer shall be notified immediately.

Shop drawings, special inspections, and material sampling and testing, when required, are specified in their respective tables in the general notes and in the specifications.

### DESIGN

Wind Analysis:

Design conforms to the California Building Code, 2022 Edition

| Basic wind speed, V3S               | (CBC Figure 1609.3)<br>(CBC Section 1609.4.3) | VULT = = | 92 mph<br>B |
|-------------------------------------|-----------------------------------------------|----------|-------------|
| Internal Pressure Coefficient, GCPI | (ASCE Table 26.13-1)                          | GCPI =   | ±0.18       |
| Seismic Analysis:                   |                                               |          |             |
| Seismic Importance Factor, I        | (ASCE Table 1.5-2)                            | I =      | 1.0         |
| Risk Category                       | (CBC Table 1604.5)                            | =        | ΙΙ          |
| Site Location, Latitude             | 37.31061°                                     |          |             |
| Site Location, Longitude            | -122.04146°                                   |          |             |
| Spectra Accel., Short Period, SS    | (CBC Figure<br>1613.2.1(1)&(2))               | SS =     | 2.185 g     |
| Spectra Accel., Long Period, S1     | (CBC Figure<br>1613.2.1(3)&(4))               | \$1 =    | 0.784 g     |
| Site Classification                 | (CBC Section 1613.2.2)                        | =        | D (Defaul   |
| Design Response, Short Period, SDS  | (CBC Section 1613.2.4)                        | SDS =    | 1.748 g     |
| Seismic Design Category             | (CBC Table 1613.2.5(1)&(2))                   | =        | D           |
|                                     |                                               |          |             |

### FOUNDATIONS

Foundations conform to the recommendations of the Geotechnical Report entitled: "Jollyman Park All-Inclusive Playgound 1000 S. Stelling Road, Cupertino, California," prepared by Ninyo & Moore, dated February 18, 2022.

= 1500 psf DL + LL Maximum soil pressure

Retaining Walls (up to 6ft retained soil)

Equivalent fluid pressure (for drained walls)

Active condition (unrestrained) = 35 pcf Level backfill = 70 psf\* Surcharge

Level backfill = 60 pcf Surcharge = 120 psf\*

At rest condition (restrained)

Coefficient of friction = 0.35

Passive earth pressure = 360 pcf

\* S = Live Load Surcharge (psf) \*\* H = Height of retained soil

Refer to the Geotechnical Report for additional recommendations not listed below. All site grading, excavations, fills, and soil preparation shall conform to the Geotechnical Report and all work shall be done under the observation of the Geotechnical Engineer.

Footings shall extend to such depth as to bear upon firm, undisturbed native soil. All abandoned footings, utilities, etc. shall be removed. All footings shall be founded at a depth at least 24" below the lowest adjacent grade. Footing depths shown on the structural drawings are minimum depths. Footings may be poured in neat excavated trenches.

Excavations for footings shall be observed by the Geotechnical Engineer prior to placing reinforcing and concrete. The Contractor shall notify the Geotechnical Engineer when the excavations are ready for observation.

### Backfill

All excavations shall be properly backfilled. Do not place backfill behind retaining walls before the concrete or grout has attained full design strength. The Contractor shall brace or protect all building and pit walls below grade from lateral loads until the attaching floors are completely in place and have attained full strength. The Contractor shall provide for the design, permits, and installation of such bracing.

Footing backfill and utility trench backfill within the building area shall be mechanically compacted in layers in accordance with the Geotechnical Report and observed by the Geotechnical Engineer or Inspector. Flooding will not be permitted.

### Geotechnical Engineer Observation Letter

The Geotechnical Engineer shall prepare a letter for the Building Department giving an opinion regarding conformance of the footing excavations, engineered fill compaction, subgrade preparation, and backfilling with the requirements contained in the Geotechnical Report.

### REINFORCING STEEL

Reinforcing Steel detailing, fabrication, and placement shall conform to the "California Building Code," Chapter 19; the "Manual of Standard Practice of the Concrete Reinforcing Steel Institute," latest edition; and the "Building Code Requirements for Structural Concrete and Commentary," ACI 318-19; unless otherwise noted.

Reinforcing steel shall conform to the following standards:

| Deformed Bars, #3              | ASTM A615, Grade 40 |
|--------------------------------|---------------------|
| Deformed Bars, #4 and larger   | ASTM A615, Grade 60 |
| Spiral Reinforcement, deformed | ASTM A615           |

Placing: All steel reinforcement shall be securely tied in place so as to maintain their exact position before and during the placement of concrete. Reinforcing steel shall be securely tied in place with #16 annealed iron wire. Bars in beams and slabs shall be supported on well-cured concrete blocks or approved plastic tipped metal chairs, as specified by CRSI Manual of Standard Practice, MSP-1. Accessories for epoxy-coated reinforcing, where shown on plans, shall be as noted in the Specifications. Wire fabric in slabs shall be securely fastened to supporting devices to maintain their position during concrete placement.

Lap bars 58 diameters, laps shall be staggered, for #3 to #6 bars unless otherwise noted Lap bars 72 diameters, laps shall be staggered, for #7 to #11 bars unless otherwise noted

Mechanical splices: Where noted on plans, provide threaded couplers capable of developing at least 125% of the specified yield strength of the reinforcing steel. Couplers shall be Type 2, as per ACI 318–19 Section 18.2.7. Threaded Couplers shall be as manufactured by Erico Company, or approved equal with a current evaluation report from an approved source.

Welding: Where welding of reinforcing bars is approved by the Engineer, it shall be done by AWS certified welders using E80XX or approved electrodes. Welding procedures shall conform to the requirements of the "Structural Welding Code - Reinforcing Steel", AWS-D1.4

### REINFORCING STEEL (Continued)

Clear distances, steel to forms, unless noted otherwise:

| Slabs not exposed to weather, joists, interior wall surfaces       | 3/4"   |
|--------------------------------------------------------------------|--------|
| Exterior wall surfaces, slabs exposed to weather, #5 and smaller . | 1-1/2" |
| Exterior wall surfaces, slabs exposed to weather, #6 and larger    | 2"     |
| <br>Clear distance between bars                                    | 2"     |
| Slabs on rolled grade                                              | 1-1/2" |
| Formed surfaces in contact with earth                              | 2"     |
| Unformed surfaces in contact with earth                            | 3"     |
|                                                                    |        |

Shop drawings shall be submitted to the Architect for review prior to fabrication. Shop drawings shall include elevations of all beams and columns showing bar and lap locations. See Shop Drawing Submittal Requirements elsewhere in General Notes. Submit mill certificates for reinforcing steel prior to rebar placement.

### CONCRETE WORK

Forms shall be properly constructed conforming to concrete surfaces as shown on the drawings, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed to support the concrete. Forms for exposed concrete shall be plywood, using sheets as large as possible, with all joints tightly fitted and blocked, and shall produce a finished concrete surface which is smooth, true, and free from blemishes according to accepted standards for architectural concrete.

Debris should be entirely removed from forms prior to concrete placement.

Horizontal construction joints shall be located as shown on the structural drawings, and the hardened concrete surfaces shall be cleaned by sand-blasting or other approved means to expose firmly embedded aggregates prior to pouring additional concrete in contact with these surfaces. Vertical construction joints through beams or slabs shall be located only as shown on structural

Forms and shoring shall not be removed until the concrete has attained sufficient strength to withstand all loads to be imposed without excessive stress, creep, or deflection. See specifications for shoring requirements.

Concrete shall be ready mixed conforming to ASTM C94. Cement shall be Portland Cement Type II, conforming to ASTM C150. All hardrock (H.R.) concrete used in suspended slabs and slabs on grade shall be designed for low shrinkage (L.S.). Acceptable coarse aggregates for low shrinkage concrete include Kaiser Clayton, Granite Rock, Limestone, Sechelt, or Orcas aggregates. Fine aggregates acceptable for low shrinkage concrete include Sechelt, Orcas, or Granite Rock sands. Alternative aggregates may be submitted provided they provide a concrete mix with a shrinkage limitation of 0.040% after 28 days of drying. Submit test data to Architect for review.

Use maximum size aggregate as noted below.

Use 3/8" maximum aggregate where necessary for proper placing, such as in thin or congested sections, etc. Superplasticizers may be used to improve workability in thin or congested sections. Incorporate superplasticizers into concrete mix designs.

Flyash shall consist of pozzolanic admixtures conforming to ASTM C618, Class F, and shall be used in quantities noted below. See specifications for additional requirements.

Ground Granulated Blast Furnace Slag (GGBFS) shall conform to ASTM C989 for slag cement and be used in quantities noted below. See specifications for additional requirements.

Admixtures used in concrete shall conform to the following ASTM standards, shall be used in dosages recommended by the manufacturer, and shall not contain more chloride than is found in the municipal drinking water supply. Liquid volume in ASTM C494, Type C admixtures shall be added to water content and water cement ratio calculations.

Water reducers ASTM C494, Type A Mid-range water reducers ASTM C494, Type A/F High-range water reducers ASTM C494, Type F Hydration Stabilizers (Retarders) ASTM C494, Type B and D Accelerators ASTM C494, Type C ASTM C260 Air Entraining Agents Corrosion Inhibitors ASTM C494, Type C ASTM C494, Type F Shrinkage Reducing Admixtures Viscosity Modifying Admixtures ASTM C494, Type S Crystalline Waterproofing No ASTM standard Post-Industrial, recycled CO<sub>2</sub> ASTM C494, Type S

|                | SHEET INDEX                                                                                  |            |                                         |             |         | Lines | <br>SUE  | L | OG |  |  |
|----------------|----------------------------------------------------------------------------------------------|------------|-----------------------------------------|-------------|---------|-------|----------|---|----|--|--|
| #              | TITLE                                                                                        | /.         | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | R50 14N SFT | 10 2 NA | \$/   | <u> </u> | / | /  |  |  |
| S0.01<br>S0.02 | GENERAL NOTES/SHEET INDEX GENERAL NOTES/DETAILS                                              | <b>✓</b>   | <b>✓</b>                                | ✓<br>✓      |         |       |          |   |    |  |  |
| -              | LOG KEY:  ' ISSUED AS PART OF A SET ' NOT A PART OF ISSUED SET ' ISSUED FOR INFORMATION ONLY | 11-15-2023 | 01-25-2024                              | 03-22-2024  |         |       |          |   |    |  |  |



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> 03-22-2024 RESPONSE TO PERMIT COMMENTS/BID SET Scale: Designed: CP Drawn: MS Checked: DESIGN DESIGN CITY APPR. BY DATE APPR. DATE Proj. Engr: REVISIONS

IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF PROJECT # \_\_\_\_\_ **CUPERTINO** PUBLIC WORKS INSPECTOR: GENERAL NOTES/ SHEET INDEX VOICE MAIL: SHEET 59

# GENERAL NOTES

### CONCRETE WORK (Continued)

Cementitious Material (CM) content includes all cement and Supplemental Cementitious Materials (SCM).

Contractor shall submit for review of the Architect the concrete mixes proposed for use, designed by the concrete supplier and reviewed by an approved testing laboratory.

### Concrete shall have the following characteristics:

| Concrete Location | Max       | Strength<br>@ 28 days<br>(psi) | Slump¹ | Min CM<br>Content | Content <sup>5</sup> | Flyash<br>Content⁵<br>Min, Max<br>(%) |    | Content | Max<br>Water/<br>Cement<br>Ratio |
|-------------------|-----------|--------------------------------|--------|-------------------|----------------------|---------------------------------------|----|---------|----------------------------------|
| Footings          | 1-1/2" HR | 3000                           | 3.5    | 5.0               | 40,50                | 15,35                                 | 50 | 36      | 0.60                             |

- <sup>1</sup> Slump shall be the minimum consistent with proper placing. Achieve slump with water reducing admixtures (ASTM C-494 Type A, F, or A/F) for desired workability.
- 2 Use high range water reducing admixture (superplasticizer) as needed.
- 3 Use water reducing admixtures or mid-range water reducing admixtures for desired
- <sup>5</sup> Percentages of GGBFS and Flyash may be individually adjusted within the limits provided in order to maintain total SCM content

The Contractor shall inform the Architect at least 3 days prior to pouring any structural concrete so that the Architect may have the opportunity of reviewing the work prior to concrete placement.

All concrete except slabs on grade 6" thick or less shall be mechanically vibrated so as to completely fill the forms without causing undue segregation.

### For 28 day strengths and 4" diameter x 8" long cylinders:

5 test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, three at 28 days for acceptance, and hold one in reserve. For post-tensioned concrete secure 5 cylinders per 150 yards, or fraction thereof, poured in any one day, two sets minimum. Test one at 96 hours for stressing, three at 28 days for acceptance, and hold one in reserve.

### For 28 day strengths and 6" diameter x 12" long cylinders:

4 test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, two at 28 days for acceptance, and hold one in reserve. For post-tensioned concrete secure 4 cylinders per 150 yards, or fraction thereof, poured in any one day, two sets minimum. Test one at 96 hours for stressing, two at 28 days for acceptance, and hold

### one in reserve. STRUCTURAL STEEL AND MISCELLANEOUS IRON

Structural Steel and Miscellaneous Metal shall be detailed, fabricated, and erected in accordance with AISC 325.

All Structural Steel shall conform to the following ASTM designations, U.N.O.

| WF Shapes                   | A992  |       |   |     |   |    |      |
|-----------------------------|-------|-------|---|-----|---|----|------|
| Steel Pipe                  | A53,  | Grade | В | (Fy | = | 35 | ksi) |
| HSS Round                   | A500, | Grade | С | (Fy | = | 46 | ksi) |
| HSS Rectangular and Square  | A500, | Grade | С | (Fy | = | 50 | ksi) |
| Angles, C-Shapes, MC-Shapes | A36   |       |   |     |   |    |      |
| Other Steel Plates and Bars | A36   |       |   |     |   |    |      |
|                             |       |       |   |     |   |    |      |

### Unless otherwise shown or noted stiffener plates shall be 3/8" thick minimum.

All structural steel surfaces that are encased in concrete, masonry, spray on fireproofing, or are encased by building finishes shall be left unpainted except as required for designation of protected zones, unless noted otherwise.

Where galvanized steel is indicated on drawings, galvanize according to ASTM A123, hot dip process.

Erection clips, temporary bracing, and shoring required by the Contractor are not shown. Contractor shall comply with all OSHA requirements.

Additional miscellaneous metal items such as embeds, railings, and supports for interior finishes may be shown on drawings prepared by others, see architectural drawings.

Shop drawings shall be submitted to the architect for review prior to fabrication

The testing agency shall send copies of Structural Testing and Inspection Reports directly to the Engineer of Record.

### Welded Connections:

All welded connections shall be welded in accordance with the "Structural Welding Code - Steel (AWS-D1.1). All welding shall be done with electrodes having a minimum tensile strength of 70 ksi, unless noted otherwise. Shielded metal arc welding (SMAW) electrodes shall be low-hydrogen type. Unless otherwise noted.

- All welders shall be qualified in accordance with AWS D1.1 for all welds they will be
- The weld lengths called for on the structural drawings are the net effective length required. Where fillet weld symbol is given without indication of size, use the minimum size welds as specified in AISC 360, Section J2.2b.
- All welding shall be performed in conformance with a written welding procedure specification (WPS). Submit all WPS's applicable to the project for review listing specific electrodes to be used. The submittal shall include an index of all procedures, shall identify the actual electrode to be used for each procedure, and shall include electrode data sheets describing the products, the limitations of use, the recommended welding parameters, and storage and exposure requirements. For WPS's that are not pre-qualified per AWS D1.1, submit procedure qualification record with WPS.

### STRUCTURAL STEEL AND MISCELLANOUS IRON (Continued)

- Run-off tabs per AWS D1.1 are required for Complete Joint Penetration (C.J.P.) groove welds. All welds are to be started and completed on the run-off tabs as much as practicable. Do not end welds at cope hole locations. Use of weld dams is not allowed.
- The minimum preheat and interpass temperatures of AWS D.1 Section 3.5 must be followed.
- All C.J.P. groove welds in members and connections shall be made with a filler metal having a minimum Charpy V-Notch toughness of 20 FT-LBS at 40 degrees F as determined by AWS classification or manufacturer's certification.
- All Butt welds are complete joint penetration welds.
- Complete penetration welds and partial penetration welds shall be examined by Ultrasonic Testing. All testing and inspection shall conform to CBC requirements. Refer to the specifications for additional information.

### SHOP DRAWING SUBMITTALS

When indicated with a "X", the following items shall have either a) shop drawings or b) certificates of conformance or c) shop drawings, calculations, and details submitted to the architect for review and approval prior to fabrication. When shop drawings, calculations, and details are required, submittals (drawings and calculations) must be signed and stamped by a Civil or Structural Engineer registered in the State of California. For additional information on the contents of the submittals, refer to the project specifications and the specific general notes sections. Submit two prints or an electronic (PDF copy) of calculations (where indicated) and shop drawings to the Architect for review.

| Item                                                     | Shop<br>Drawings | Certificate¹ | Shop Dwgs,<br>calcs, and<br>Details | Remarks                                                                               |
|----------------------------------------------------------|------------------|--------------|-------------------------------------|---------------------------------------------------------------------------------------|
| Statement of Responsibility (for<br>Special Inspections) |                  | Х            |                                     | See CBC 1704.4<br>and Special<br>Inspection Notes.<br>Do not submit<br>KPFF Drawings. |
| Concrete reinforcing                                     | Х                |              |                                     |                                                                                       |
| Concrete, mixes                                          | Х                |              |                                     |                                                                                       |
| Concrete, cement                                         |                  | Х            |                                     |                                                                                       |
| Concrete, fine aggregates                                |                  | Х            |                                     |                                                                                       |
| Concrete, coarse aggregates                              |                  | Х            |                                     |                                                                                       |
| Concrete, admixtures                                     |                  | Х            |                                     |                                                                                       |
| High Strength Low Shrink Non<br>Metallic Grout           |                  | Х            |                                     |                                                                                       |

(1) Certificates shall be dated within 3 months of the submittal.

### SPECIAL INSPECTION

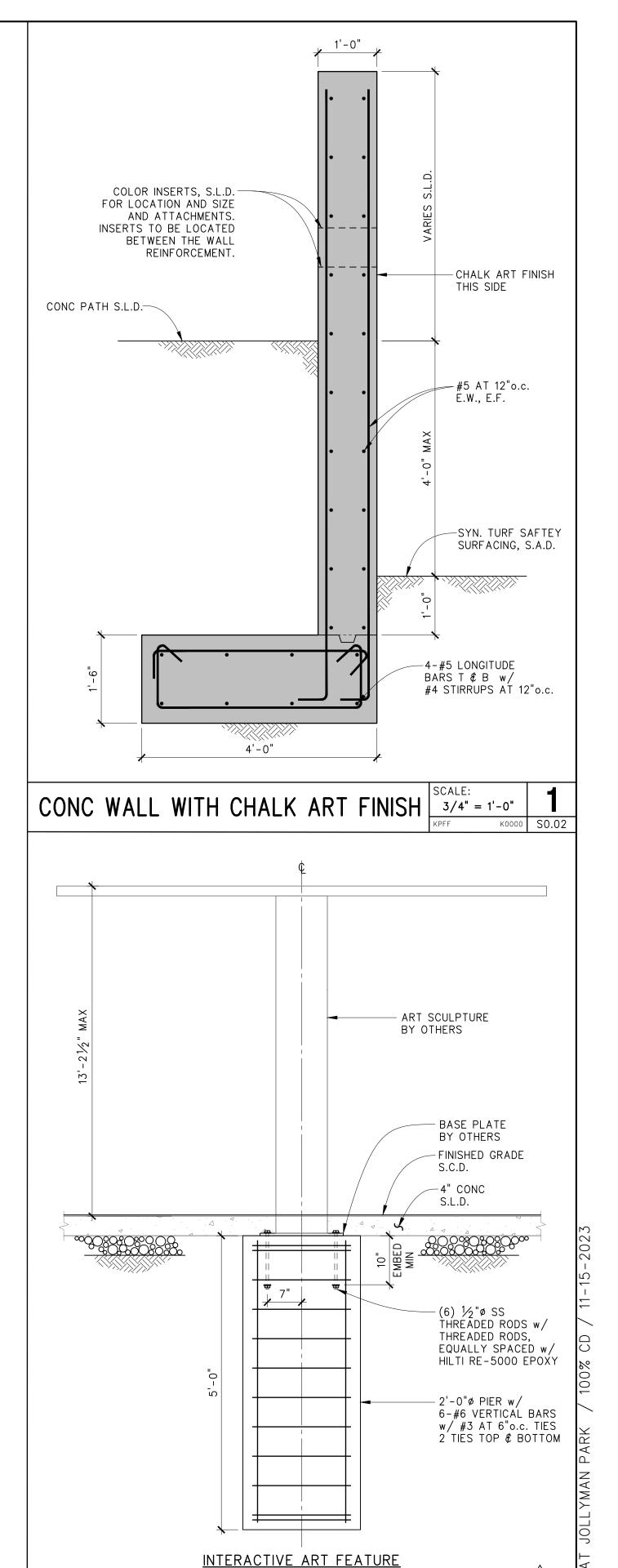
When indicated with a "X", the following items shall be inspected in accordance with CBC Section 1705 by a certified special inspector from an established testing agency. All inspection shall be continuous, unless otherwise noted. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications, and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

| Item               | Required | Remarks |
|--------------------|----------|---------|
| Rebar Placement    | Х        |         |
| Concrete Placement | Х        |         |

### SPECIAL INSPECTION

When indicated with a "X", the following items shall be inspected in accordance with CBC Section 1705 by a certified special inspector from an established testing agency. All inspection shall be continuous, unless otherwise noted. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications, and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

| Item               | Required | Remarks |
|--------------------|----------|---------|
| Rebar Placement    | Х        |         |
| Concrete Placement | Х        |         |



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RESPONSE TO PERMIT COMMENTS/BID SET 03-22-2024 Scale: Designed: CP Drawn: MS Checked: DESIGN DESIGN CITY APPR. BY DATE APPR. DATE Proj. Engr: REVISIONS

IMPROVEMENT PLANS FOR

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3/4" = 1'-0'

DETAIL