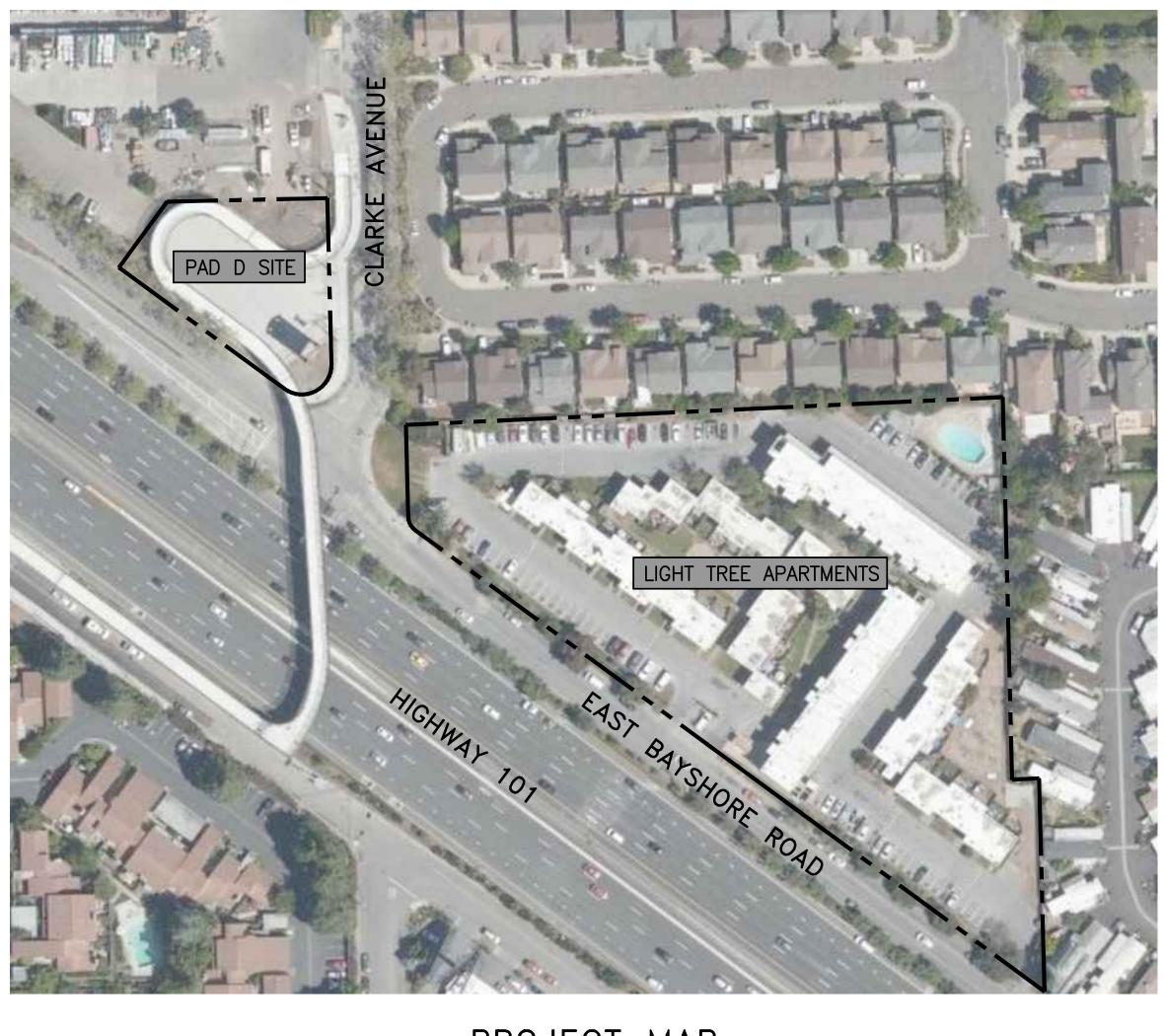
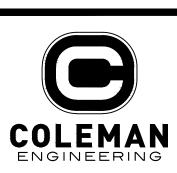


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1223 PLEASANT GROVE BLVD. SUITE 100 ROSEVILLE, CA 95678 (916) 791–1188

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CITY OF EAST PALO ALTO BENCHMARK 1 BENCHMARK ID: NAVD88 ELEV=13.17

DRIVEN STAINLESS STEEL ROD IN SLEEVE MONUMENT IN GRADE BOX IN THE LAWN IN

UNIVERSITY SQUARE PARK AT TATE AND OAKES STREET. CITY OF EAST PALO ALTO.

**BENCHMARK:** 

# EDEN HOUSING **TREE APARTMENTS** FIRE SUPPRESSION SYSTEM TY OF EAST PALO ALTO 100% PLANS





## PROJECT NOTES

- 1. THESE PROJECT NOTES APPLY TO ALL DRAWINGS.
- 2. RESTORE ALL SURFACES TO THEIR ORIGINAL CONDITION.
- 3. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL DURING ACTIVITIES WITHIN THE PUBLIC RIGHT-OF-WAY.
- 4. CONTRACTOR SHALL MINIMIZE TRENCHING ACTIVITIES IN THE PUBLIC RIGHT-OF-WAY DURING COMMUTE TIMES (7:00 AM - 9:00 AM AND 4:00 PM TO 6:00 PM).
- 5. CONTRACTOR SHALL APPLY FOR AND OBTAIN ANY AND ALL REQUIRED PERMITS TO COMPLETE THE WORK. REQUIRED PERMITS INCLUDE A BUILDING PERMIT, GRADING PERMIT, AND ENCROACHMENT PERMIT FOR CLARKE AVENUE.
- 6. CONTRACTOR SHALL COORDINATE WITH THE CITY OF EAST PALO ALTO TO APPLY FOR AND PROVIDE A WATER SERVICE CONNECTION AS INDICATED ON THE DRAWINGS.
- 7. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (DUST CONTROL, SOUND ATTENUATION, ETC.) IN ACCORDANCE WITH THE PROJECT'S ENVIRONMENTAL DOCUMENTATION.
- 8. ENVIRONMENTAL DOCUMENTATION IS AVAILABLE AT HTTPS://CEQANET.OPR.CA.GOV/2020090234/2.



COLEMAN ENGINEERING 1223 PLEASANT GROVE BLVD. SUITE 100 ROSEVILLE, CA 95678 (916) 791–1188

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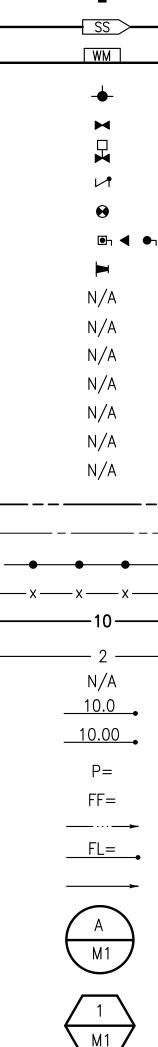
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## ABBREVIATIONS

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AC ADS AGG ALUM AMSL ARV AVRV AUX BOC BOV BTM B.O. BLDG BFV C CI CJ CLR CMP CMU CNTRL CONC CONST CONT CIRC D DDCV DET DG Ø/DIA DIP DIST DWG E EA EFF	ASPHALTIC CONCRETE ADVANCED DRAINAFE SYSTEM AGGREGATE ALUMINUM ABOVE MEAN SEA LEVEL AIR RELEASE VALVE AIR/VACUUM RELEASE VALVE AUXILIARY BOTTOM OF CONCRETE BLOW OFF VALVE BOTTOM BOTTOM OF BUILDING BUTTERFLY VALVE CONDUIT CAST IRON CONTROL JOINT CLEAR CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CONTROL CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONTINUOUS CIRCULAR DRAIN DOUBLE DETECTOR CHECK VALVE DETAIL DECOMPOSED GRANITE DIAMETER DUCTILE IRON PIPE DISTRIBUTION DRAWING EASTING EACH EFFLUENT	INFO INV IPT IRRG L LF LT MAX MFR MH MCC MIN MJ MSTR N (N) NTS OD PH PE P/P PCC POLY PSI PM PS PT PS R R
ENGR ENGR'D EOP (E)	ELEVATION ELECTRICAL ENGINEER ENGINEERED EDGE OF PAVEMENT EXISTING EQUIPMENT	RW RECIR RPBP REINF REQ'D SS
EF EW FT FRP	EACH FACE EACH WAY FEET FIBERGLASS REINFORCED PLASTIC FINISH FLOOR FINISHED GRADE FLANGED COUPLING ADAPTOR FLANGED/FLOWLINE FLOOR DRAIN FLOW ELEMENT FOOTING FORCE MAIN	SS SCH SD SEC SST STL SQ SF THK THD T&B TOS XFMR TOS XFMR UNC UNO VCP VERT VFD V WL WSE WSP WWM W/

IMPROVEMENTS
INFORMATION
INVERT
IRON PIPE THREAD
IRRIGATION
LENGTH
LINEAL FEET
LEFT
MOTOR
MAXIMUM
MANUFACTURER
MANHOLE
MOTOR CONTROL CENTER
MINIMUM
MECHANICAL JOINT
MASTER
NORTHING
NEW
NATIONAL PIPE THREAD
NOT TO SCALE
ON CENTER
OUTSIDE DIAMETER
PHASE (ELEC)/PUMP
PLATE
PLAIN END
POLE/UTILITY POLE
POLYVINYL CHLORIDE
PORTLAND CEMENT CONCRETE
POLYETHYLENE
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH
PRESSURE INDICATOR
PRESSURE MAIN
PRESSURE SEWER
PRESSURE TRANSDUCER
PUMPING STATION
RADIUS
RAILROAD
RAW WATER
RECIRCULATION
REDUCED PRESSURE BACKFLOW
PREVENTION
REINFORCING
REQUIRED
SANITARY SEWER
SCHEDULE
STORM DRAIN
SECTION
STAINLESS STEEL
STEEL
SQUARE
SQUARE FEET
•
THICK
THREADED
TOP AND BOTTOM
TOP OF SLAB
TRANSFORMER
TYPICAL
UNDERGROUND ELECTRIC
UNIFIED COARSE THREADS
UNLESS NOTED OTHERWISE
VITRIFIED CLAY PIPE
VERTICAL
VARIABLE FREQUENCY DRIVE
VOLTS
WATER
WATER LEVEL
WATER SURFACE ELEVATION
WATER TREATED
WELDED STEEL PIPE
WELDED WIRE MESH
WITH





## STANDARD SYMBOLS LEGEND

PROPOSED		_EXISTING_
SD SD		$   \overline{SD}$ $\rightarrow$ $ -$
•	MANHOLE	٠
<b>⊕</b>	MANHOLE W/GRATE TOP	$\oplus$
•	DRAIN INLET	
SS SS		- $        -$
WM		<u>[WM]</u>
<b>.</b>	FIRE HYDRANT	
M	GATE VALVE	M
	ALTITUDE VALVE	
	CHECK VALVE	
•	BUTTERFLY VALVE	
☞ ◀  ≪	BLOW OFF VALVE	
	REDUCER	
N/A	UTILITY POLE	
N/A	GUY WIRE	·
N/A N/A	ELECTRICAL (UNDERGROUND)	F
N/A	TELEPHONE (UNDERGROUND)	T
N/A	GAS (UNDERGROUND)	G
N/A	CABLE (UNDERGROUND)	CATV
N/A	FIBER OBPTIC (UNDERGROUND)	F0
	- RIGHT OF WAY CENTERLINE	
	POST & CABLE BARRIER	
	- FOST & CABLE DARRIER	
x x x x 10		XXX
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—— 2 —— N/A	— INTERMEDIATE CONTOUR LINE NATURAL GROUND ELEVATION	×—ELEV
<u>    10.0                               </u>	PROP GROUND ELEVATION	10.0
	FINISH GRADE ELEVATION	10.00
P=	PAD ELEVATION	-
	FINISH FLOOR ELEVATION	P=
FF=	DITCH DRAINAGE FLOW	FF=
FL=	FLOWLINE ELEVATION	FL=
	SHEET DRAINAGE FLOW	
	SHELI DIANAUL ILUW	
A SECT	ION REFERENCE (NUMBER/SHEET LO	CATION) N/A
1   DET	AIL REFERENCE (NUMBER/SHEET LOC	ATION) N/A

esigned under the direction of:	3-12-21	AN WALTER THE	SCALE NO SCALE
DNATHAN W. KAMINSKY C.E. No. C82004 - REGISTRATION EXPIRES 03-31-22	DATE	AND NO. C82004	
DESIGN: JWK	DATE: 3-12-21	NO. C02004	02
DRAWN: WCJ	DATE: 3-12-21	OF CALIFORNIA	SHEET NUMBER
CHECKED: JWK	DATE: 3-12-21	3-12-21	2 OF 28 SHEETS

## GENERAL NOTES

- 1. THESE STANDARD NOTES APPLY TO ALL DRAWINGS.
- 2. NO WORK SHALL BE STARTED WITHOUT FIRST NOTIFYING THE ENGINEER 48 HOURS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE IN RECEIPT OF APPROVED PLANS AND NOTICE TO PROCEED PRIOR TO BEGINNING ANY WORK.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING REQUIRED INSPECTIONS AND SHALL GIVE 48 HOURS NOTIFICATION TO THE ENGINEER.
- 4. CONSTRUCTION BIDS SHALL BE BASED ON THE WORK REQUIRED BY THIS PLAN SET, WHETHER OR NOT SPECIFICALLY ITEMIZED ON THE BID SHEET.
- 5. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED PRODUCT. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 6. ALL WORK SHALL CONFORM TO THE CONTRACT SPECIFICATIONS AND TO THE OWNER'S DESIGN STANDARDS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT AND TO APPLICABLE CODES. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- 7. WORK DESCRIBED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS. OR SHOWN ON THE DRAWINGS AND NOT DESCRIBED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR DESCRIBED IN BOTH. IN CASE OF DIFFERENCES BETWEEN SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 8. DIMENSIONS TAKE PRECEDENCE OVER SCALE OF PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE DESIGN ENGINEER OF ANY SIGNIFICANT CONFLICTS WHICH MAY BECOME APPARENT DURING THE CONSTRUCTION AND TO SEE THAT THEY ARE RESOLVED PRIOR TO PROCEEDING ON THE AFFECTED CONSTRUCTION.
- 9. NO CONSTRUCTION VEHICLES OR EQUIPMENT SHALL CROSS EXISTING BURIED IMPROVEMENTS EXCEPT AT LOCATIONS WHERE APPROVED PROTECTION FACILITIES ARE INSTALLED.
- 10. CONTOURS ARE SHOWN IN ONE FOOT INCREMENTS UNLESS OTHERWISE NOTED.
- 11. PIPELINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN ON PLANS AND PROFILES.
- 12. SPOT ELEVATIONS SHOWN ARE TOP OF FINISHED GRADE UNLESS OTHERWISE NOTED.
- 13. THE CONTRACTOR SHALL KEEP A DAILY RECORD OF AS-BUILT CONDITIONS ON A DESIGNATED PLAN SET. FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLAN SET TO THE ENGINEER.

### REGULATIONS AND PERMITS

- 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, APPROVALS, AND LICENSES PRIOR TO BEGINNING THE WORK.
- WORKMANSHIP, MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE MOST CURRENT EDITIONS OF THE I.B.C., U.M.C., U.P.C., N.E.C., AND N.F.P.A. AS WELL AS APPLICABLE STATE AND LOCAL CODES, TRADE ASSOCIATION STANDARDS, AND MANUFACTURER'S STANDARDS.
- 3. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE ORDINANCES AND REGULATIONS OF ANY AUTHORITY HAVING JURISDICTION. IF THE CONTRACT DOCUMENTS ARE IN VARIANCE THEREWITH. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PERFORMING SUCH WORK.
- CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL MITIGATION AND MONITORING REQUIREMENTS IN ACCORDANCE WITH ALL APPLICABLE PROJECT ENVIRONMENTAL DOCUMENTATION.
- 5. CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO COMMENCEMENT OF AND DURING CONSTRUCTION. IF NO SWPPP IS INCLUDED IN THE DESIGN DOCUMENTS OR OTHERWISE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO APPLY FOR AND OBTAIN A SWPPP PRIOR TO COMMENCING WORK.
- 6. CONTRACTOR SHALL OBTAIN ANY ENCROACHMENT PERMITS REQUIRED FOR WORK WITHIN PUBLIC RIGHT OF WAY.
- CONTRACTOR SHALL COORDINATE UTILITY RELATED REQUIREMENTS, INCLUDING APPLICATION FOR SERVICE, WITH UTILITY COMPANIES.

### EXISTING CONDITIONS

- 1. THE CONTRACTOR SHALL EXAMINE THE PROJECT WORK AREA PRIOR TO BIDDING TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF EXISTING SITE CONDITIONS THAT WILL BE ENCOUNTERED.
- 2. ALL MEASUREMENTS OF EXISTING TOPOGRAPHY, STRUCTURES AND UTILITIES ARE SUBJECT TO VERIFICATION IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWINGS PRIOR TO FABRICATION OR CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MAY HAVE BEEN AVOIDED BY FIELD VERIFICATION.
- THE CONTRACTOR SHALL REMOVE EXISTING STRUCTURES, INCLUDING PAVING, SIDEWALKS, CURBS, GUTTERS, PIPELINES, AND RIP RAP, AS MAY BE NECESSARY FOR THE PERFORMANCE OF THE WORK AND SHALL REBUILD THE STRUCTURES THUS REMOVED IN AS GOOD A CONDITION AS FOUND WITH THE REQUIREMENTS SPECIFIED. CONCRETE STRUCTURES SUCH AS CURBS AND GUTTERS SHALL BE REPLACED FROM JOINT TO JOINT OR AS DIRECTED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL ALSO REPAIR EXISTING STRUCTURES THAT MAY BE DAMAGED AS A RESULT OF THE WORK UNDER THIS CONTRACT.



COLEMAN ENGINEERING
1223 PLEASANT GROVE BLVD
SUITE 100
ROSEVILLE, CA 95678
(916) 791–1188

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- ON THE PLANS.
- CONSTRUCTION TO ITS ORIGINAL LOCATION.
- ACCORDANCE WITH THE SPECIFICATIONS.

### <u>SAFETY</u>

- OF ALL PERSONS AND PROPERTY.
- WORKING DAYS PRIOR TO ANY EXCAVATION.
- CONSTRUCTION SAFETY ORDER.

- THE ENGINEER.
- CONTROL AT ALL TIMES.
- THE ENGINEER.
- UTILITY PRESENT.

### CIVIL, PIPELINES AND OTHER UTILITIES

- COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR'S EXPENSE.
- PRACTICABLE TO THAT SHOWN ON THE DRAWINGS.
- UTILITIES, UNLESS NOTED OTHERWISE.
- NOTED OTHERWISE.

NO.	REVISIONS BY	APP DATE	LIGHT TREE APARTMENTS		PAD D FIRE SYSTEM	DESIGNED UNDER THE DIRECTION OF:		POFESS(A)	SCALE
					FAD DIINL SISILM	Constran L. Kaminshy	3-12-21	Sed IN WAY AND	NO SCALE
				NOTES		JONATHAN W. KAMINSKY R.C.E. No. C82004 - REGISTRATION EXPIRES 03-3	DATE	AND	
			GENERAL	NOIES		DESIGN: JWK	DATE: 3-12-21	No. C82004	G3
						DRAWN: WCJ	DATE: 3-12-21	CIVIL RUN	SHEET NUMBER
$\underline{\Lambda}$			CITY OF EAST PALO ALTO		CALIFORNIA	CHECKED: JWK	DATE: 3-12-21	OF CALIFOT 3-12-21	<b>3</b> OF <b>28</b> SHEETS

4. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED BY THE ENGINEER. THE CONTRACTOR WILL PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS REQUIRED.

5. THE CONTRACTOR SHALL RESTORE THE EXISTING GROUND, REPLACE IN KIND ALL EXISTING STRUCTURES, PAVING, LANDSCAPING, AND FINISH SURFACE DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONTOURS AND ELEVATION UNLESS OTHERWISE NOTED

6. THE CONTRACTOR SHALL NOT DISTURB ANY PERMANENT SURVEY MONUMENT WITHOUT THE CONSENT OF THE ENGINEER. A LICENSED SURVEYOR SHALL REPLACE ALL MONUMENTS DISTURBED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING

7. ALL AREAS OF CONSTRUCTION DISTURBANCE WHERE NATURAL COVER AND VEGETATION HAVE BEEN REMOVED SHALL BE HYDRO-SEEDED FOR EROSION CONTROL IN

1. THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY

2. NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600 AT LEAST TWO

3. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE

4. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA SAFETY REQUIREMENTS.

5. SHEETING, SHORING, AND BRACING OF TRENCHES GREATER THAN 5-FEET IN DEPTH IS REQUIRED. THE CONTRACTOR SHALL DESIGN SHEETING, SHORING, AND BRACING IN ACCORDANCE WITH ARTICLE 6 OF THE CAL/OSHA AND THE CALIFORNIA LABOR CODE.

6. ALL EXCAVATION SHALL BE COMPLETE OR BACKFILLED AT THE END OF THE DAY OR COVERED WITH PLATING, UNLESS ALTERNATIVE PROTECTION MEASURES ARE APPROVED BY

7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE PUBLIC SAFETY AND TO MAINTAIN TRAFFIC

8. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS REGARDING NOISE GENERATED BY CONSTRUCTION OPERATIONS. CONSTRUCTION EQUIPMENT THAT OPERATES AT A NOISE LEVEL IN EXCESS OF 85 DECIBELS (MEASURED ON THE A-WEIGHTED SCALE DEFINED IN ANSI-1.4), AT A DISTANCE OF 100 FEET FROM THE EQUIPMENT, IS PROHIBITED UNLESS AUTHORIZED BY

9. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES FOR THE LOCATION AND PLACEMENT OF UTILITIES DURING CONSTRUCTION. NO EXCAVATION IS PERMITTED WITHIN 24 INCHES OF A GAS MAIN WITHOUT A REPRESENTATIVE OF THE GAS

1. THE TYPE, SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES. WHICH MAY BE ENCOUNTERED. IS ASSUMED BY THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO

2. ANY EXISTING UTILITIES SHALL BE EXPOSED USING APPROPRIATE MEANS AND METHODS REQUIRED TO PREVENT DAMAGE. EXPOSED UTILITIES AND STRUCTURES SHALL BE PROTECTED AND/OR SUPPORTED TO PREVENT DAMAGE OR DEFECTION FROM ORIGINAL CONDITION. ANY DAMAGE OR LOSS OF SERVICE RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CORRECTED IMMEDIATELY TO PRE-CONSTRUCTION CONDITION AT

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE. PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION. AND FOR THE SAFETY AND PROTECTION THEREOF AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST FOR POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS SHALL BE INCLUDED IN THE ASSOCIATED BID ITEMS IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PIPE FITTINGS (WHETHER OR NOT SHOWN ON THE DRAWINGS) TO PLACE THE ALIGNMENT OF THE PIPELINES AS CLOSE AS

5. PROVIDE 12 INCHES MINIMUM VERTICAL CLEARANCE BETWEEN PIPELINE AND EXISTING

6. ALL BURIED PIPELINES SHALL HAVE A MINIMUM SOIL COVER OF 30 INCHES, UNLESS

- 7. DEFLECT JOINTS ON STANDARD FITTINGS OR ADJACENT HDPE PIPE TO OBTAIN VERTICAL AND HORIZONTAL CURVES SHOWN ON THE DRAWINGS. DO NOT DEFLECT HDPE PIPE WITHIN 10 FEET OF ANY FABRICATED FITTING OR HDPE FLANGE CONNECTION.
- 8. LINE VALVES SHALL BE SHOP TESTED TO SEAT IN BOTH DIRECTIONS TO FACILITATE FIELD PRESSURE TESTING.
- 9. ALL CONCRETE VAULTS AND COVERS IN TRAFFIC OR PARKING AREAS SHALL BE DESIGNED FOR H-20 LOADINGS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
- 10. ALL PIPES SHALL BE CONSTRUCTED TO RESIST THRUST FORCES DEVELOPED DURING PRESSURE TESTING AND OPERATION. THRUST FORCES ARE DEVELOPED AT CHANGES IN HORIZONTAL AND VERTICAL DIRECTIONS. CHANGES IN PIPELINE DIAMETER. CLOSED VALVES, AND DEAD ENDS.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE DUE TO DUST OR EROSION RESULTING FROM THE WORK DONE BY THE CONTRACTOR.
- 12. IF SAW CUT IS WITHIN 2 FEET OF AN EXISTING PAVEMENT EDGE OR EXISTING PAVEMENT PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE THE ENTIRE PAVEMENT.
- 13. ALL PIPE PENETRATIONS THROUGH WALLS AND SLABS SHALL BE PROVIDED WITH SLEEVES IN ACCORDANCE WITH THE TYPICAL DETAILS, UNLESS NOTED OTHERWISE.
- 14. CONTRACTOR SHALL KEEP EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 4 FEET BELOW BOTTOM OF EXCAVATIONS. DISPOSAL OF WATER SHALL NOT DAMAGE PROPERTY OR CREATE A PUBLIC NUISANCE. DISPOSAL OF WATER SHALL BE IN ACCORDANCE WITH PROJECT ENVIRONMENTAL DOCUMENTATION.
- 15. ALL SOIL FILLING OR DISPOSAL ONSITE WILL BE COMPACTED TO 95% RELATIVE COMPACTION UNLESS NOTED OTHERWISE.

MECHANICAL EQUIPMENT AND PIPING

- 1. EQUIPMENT LAYOUT SHOWN ON THE DRAWINGS IS FOR A SINGLE AND SPECIFIC MANUFACTURER. CONTRACTOR SHALL MAKE ALL NECESSARY STRUCTURAL, MECHANICAL ELECTRICAL, AND BUILDING MODIFICATIONS NECESSARY TO ACCOMMODATE ALTERNATIVE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- 2. THE CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR PROPER OPERATION OF EQUIPMENT, IN ACCORDANCE WITH THE SPECIFICATIONS, WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.
- 3. NOT ALL PIPE FITTINGS OR SUPPORTS ARE SHOWN ON THE DRAWINGS. FURNISH AND INSTALL ALL FITTINGS AND SUPPORTS. AS REQUIRED FOR THE EQUIPMENT FURNISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND TYPICAL DETAILS AND AT NO ADDITIONAL COST TO THE OWNER.
- 4. PIPING CONNECTIONS TO EQUIPMENT SHALL BE VERIFIED AND ADJUSTED TO MATCH ACTUAL EQUIPMENT FURNISHED AT NO ADDITIONAL COST TO THE OWNER.
- 5. SUCTION AND DISCHARGE PIPING FOR PUMPS, BLOWERS, ETC. SHALL BE SUPPORTED SO THAT THE WEIGHT OF THE PIPING IS NOT DISTRIBUTED TO THE EQUIPMENT.
- 6. PROVIDE WARNING SIGNS IN ACCORDANCE WITH THE SPECIFICATIONS FOR ALL REMOTELY CONTROLLED EQUIPMENT.
- 7. DUCTILE IRON PIPE SHALL COMPLY WITH ANSI A21.51 (AWWA C151). PIPE WALL THICKNESS FOR PUSH-ON JOINT AND MECHANICAL JOINT PIPE SHALL BE CLASS 51 FOR PIPE 4-INCHES AND SMALLER, AND CLASS 50 FOR LARGER PIPE.
- 8. PVC WATER PIPE SHALL MEET THE REQUIREMENTS OF AWWA C-900 FOR PIPE SIZES 4" THROUGH 12". PIPE SIZES GREATER THAN 12" PVC PIPE SHALL MEET REQUIREMENTS OF AWWA C-905.
- 9. PROVIDE CATHODIC PROTECTION ON ALL DUCTILE IRON FITTINGS, VALVES AND OTHER METALLIC FITTINGS OR APPURTENANCES IN ACCORDANCE WITH THE OWNERS STANDARDS. CATHODIC PROTECTION ENGINEER RECOMMENDATIONS, OR PLANS.
- 10. ALL DIFFERING PIPE MATERIAL SHALL BE DIELECTRICALLY SEPARATED.
- 11. ALL BURIED DUCTILE IRON PRESSURE PIPE AND FITTINGS SHALL BE ENCASED IN 8-MIL POLYETHYLENE IN ACCORDANCE WITH AWWA C-105.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCURATE VERTICAL AND HORIZONTAL CONTROL THROUGHOUT THE PROJECT.

### MATERIALS AND PRODUCTS

- 1. IT IS INTENDED THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH ITS TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS. THE ENGINEERS INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
- 2. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. IF CONTRACT DOCUMENTS ARE IN VARIANCE THEREWITH, NOTIFY ENGINEER PRIOR TO BEGINNING WORK.
- 3. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND FREE FROM DEFECTS. MATERIALS USED MUST HAVE THE MANUFACTURER'S WARRANTED SUPPORT.
- 4. MATERIALS, EQUIPMENT, ETC. NOT INDICATED ON THE DRAWINGS OR SPECIFIED, WHICH ARE MANIFESTLY OR REASONABLY REQUIRED. OR NECESSARY FOR A SUCCESSFUL. EFFICIENT AND COMPLETE INSTALLATION, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH WORK. THEY SHALL BE HELD TO BE IMPLIED, AND SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
- 5. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS AND MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

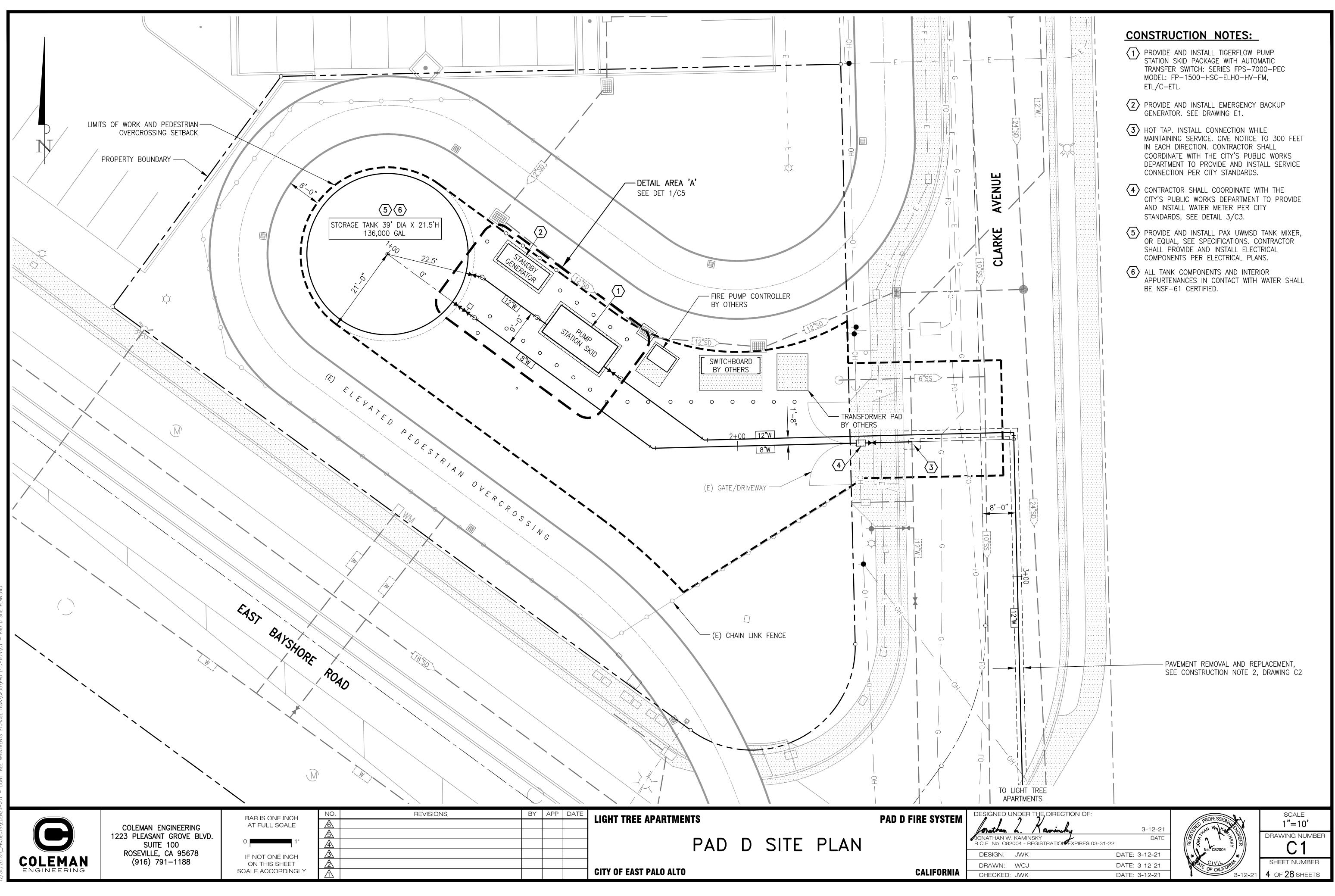
- 6. ALL BUILDING COMPONENTS, BUILDING SYSTEMS, AND BUILDING PRODUCTS ARE TO BE LOCATED, FURNISHED, PROVIDED, AND INSTALLED WITH NECESSARY ACCESSORIES INCLUDING BUT NOT LIMITED TO EXPANSION/CONTRACTION CONTROL, BRACING, FLASHING, ELECTRONIC DEVICES, VALVES, ACCESSORIES, SUPPORTS, CONNECTIONS, DRAINAGE, VENTILATION, ETC. FOR A COMPLETE AND WORKING ASSEMBLY, PER CODES, DRAWINGS, AND SPECIFICATIONS, AND PER THE RECOMMENDATIONS OF ALL MANUFACTURERS, INCLUDING THOSE DIRECTLY INVOLVED AND THOSE RELATED OR INTERFACING.
- 7. CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS PRIOR TO PREPARATION OF SHOP DRAWINGS AND ORDERING OF MATERIALS.
- 8. CONTRACTOR SHALL BE REQUIRED TO ARRANGE FOR ALL STORAGE/STAGING AREAS, WHICH MAY NOT BE SHOWN ON THE DRAWINGS, AND PROVIDE SECURITY AT NO ADDITIONAL COST TO THE OWNER.
- 9. ALL STAINLESS STEEL SHALL BE TYPE 304 OR 316, UNLESS NOTED OTHERWISE.
- 10. ALL NUTS AND BOLTS TO BE INSTALLED UNDERGROUND, ENCASED, BURIED, AND INSIDE MANHOLES SHALL BE STAINLESS STEEL TYPE 316, UNLESS NOTED OTHERWISE.
- 11. ISOLATE ALL COPPER PIPE FROM OTHER MATERIALS WITH PVC TAPE.
- 12. SEPARATE DISSIMILAR METALS AND ALUMINUM IN CONTACT WITH CONCRETE, WITH BITUMINOUS PAINT OR AN ALTERNATIVE PRODUCT APPROVED BY THE ENGINEER.
- 13. ALL MATERIALS AND PRODUCTS TO BE INSTALLED IN A DRINKING WATER SYSTEM SHALL BE NSF 61 CERTIFIED.

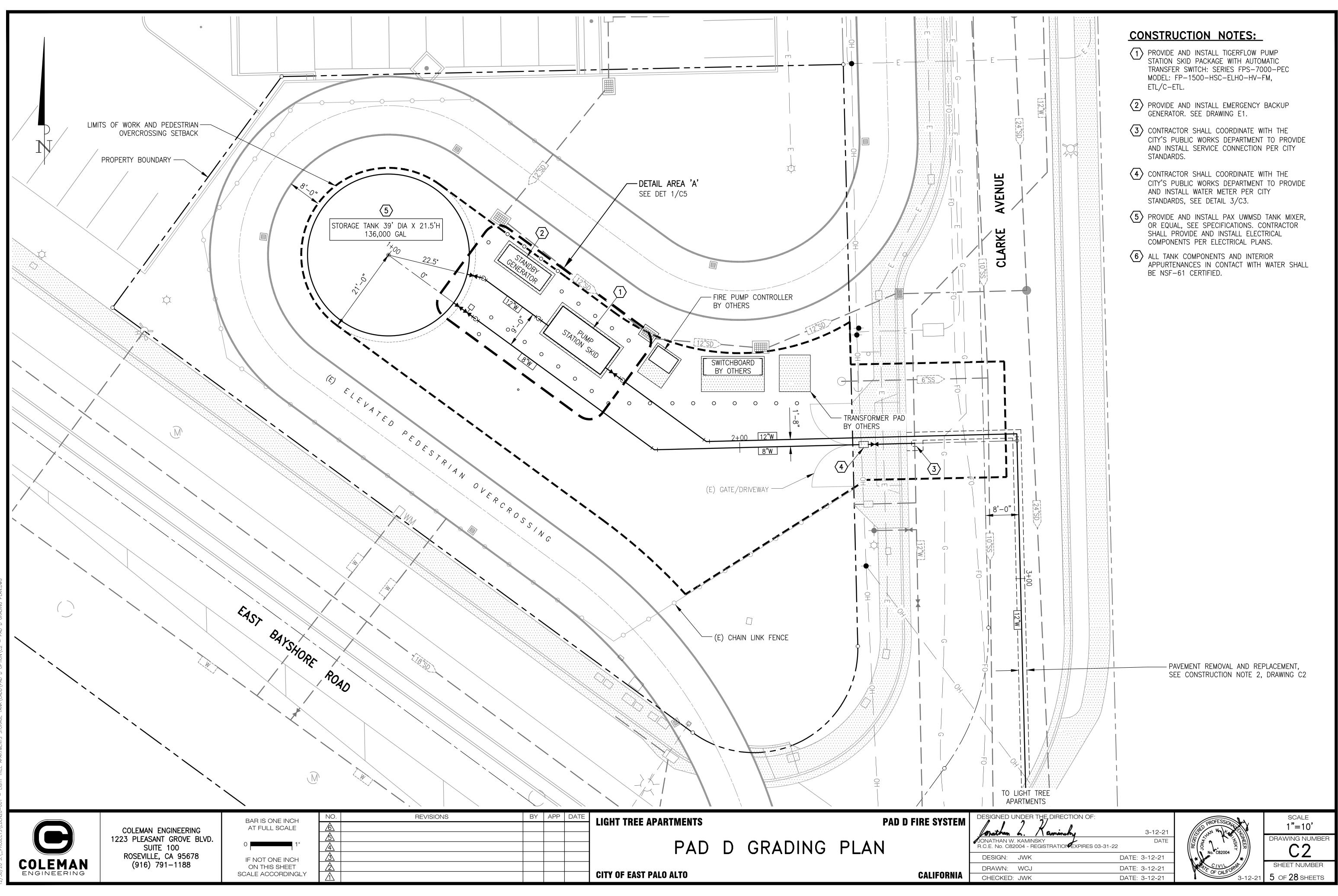
WORKMANSHIP

- 1. CONTRACTOR DAMAGED WORK MUST BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. REPAIRED OR REPLACED CONSTRUCTION DAMAGE TO EXISTING FACILITIES AND UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
- 2. THE ENGINEER RESERVES THE RIGHT TO DIRECT THE CONTRACTOR TO REMOVE AND REINSTALL WORK, WHICH IN THE ENGINEER'S OPINION DOES NOT MAINTAIN WORKMANSHIP AND CRAFTSMANSHIP STANDARDS.
- 3. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT BUILDINGS AND STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY THE DESIGN ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- 4. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMING FLOORS OR ROOF. TEMPORARY LOADING OF CONSTRUCTION MATERIAL SHALL NOT EXCEED THE DESIGN LIVE LOAD.
- 5. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN CLEAN, SAFE AND USABLE CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. ALL SPILLS OF SOIL, ROCK, CONSTRUCTION DEBRIS. ETC. SHALL BE REMOVED IMMEDIATELY FROM PUBLIC ACCESS AREAS. ALL TRASH, CONSTRUCTION DEBRIS AND MATERIALS SHALL BE CONTAINED WITHIN THE CONSTRUCTION AREA UNTIL OFF-SITE DISPOSAL CAN BE ARRANGED.

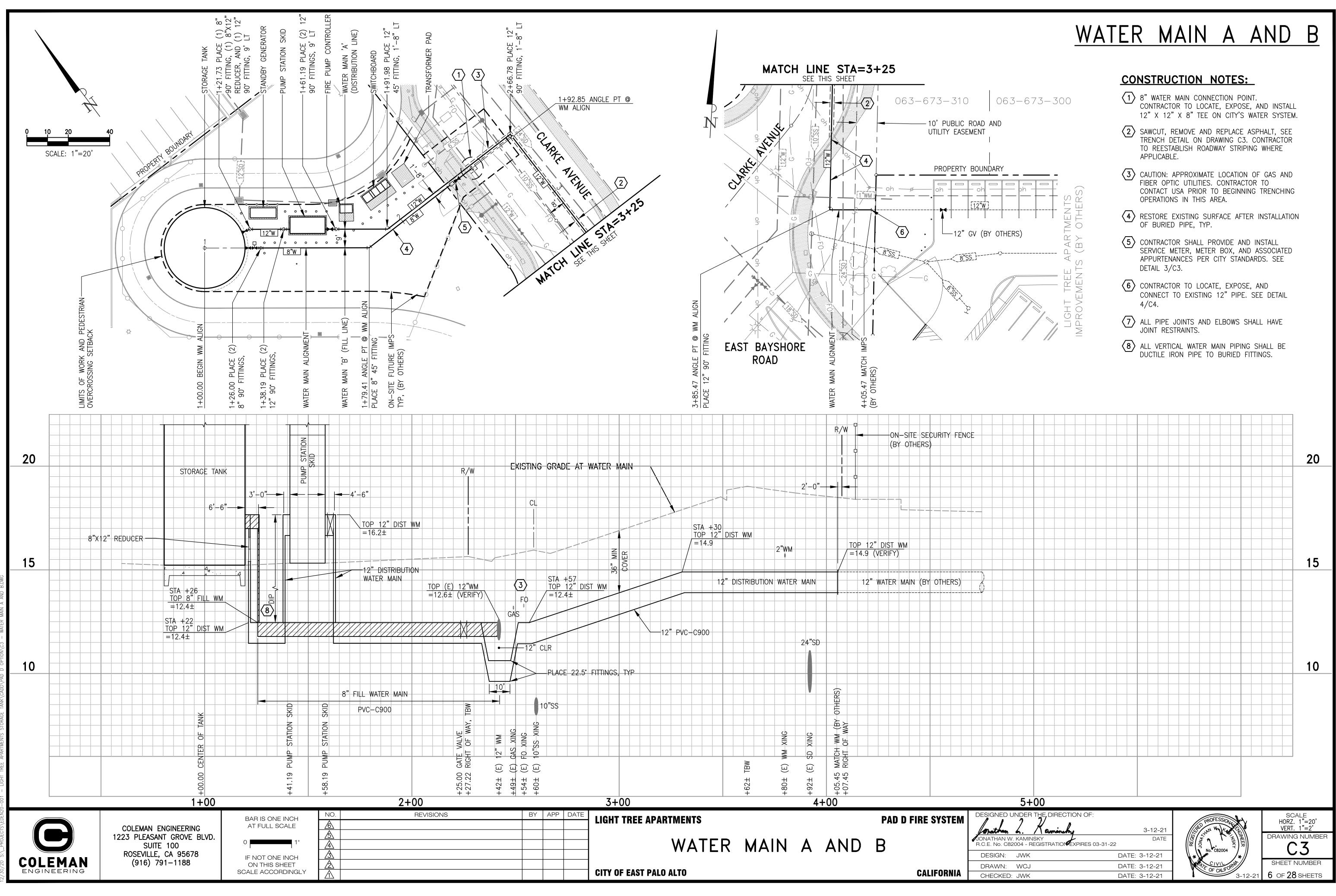
<u>SURVEY</u>

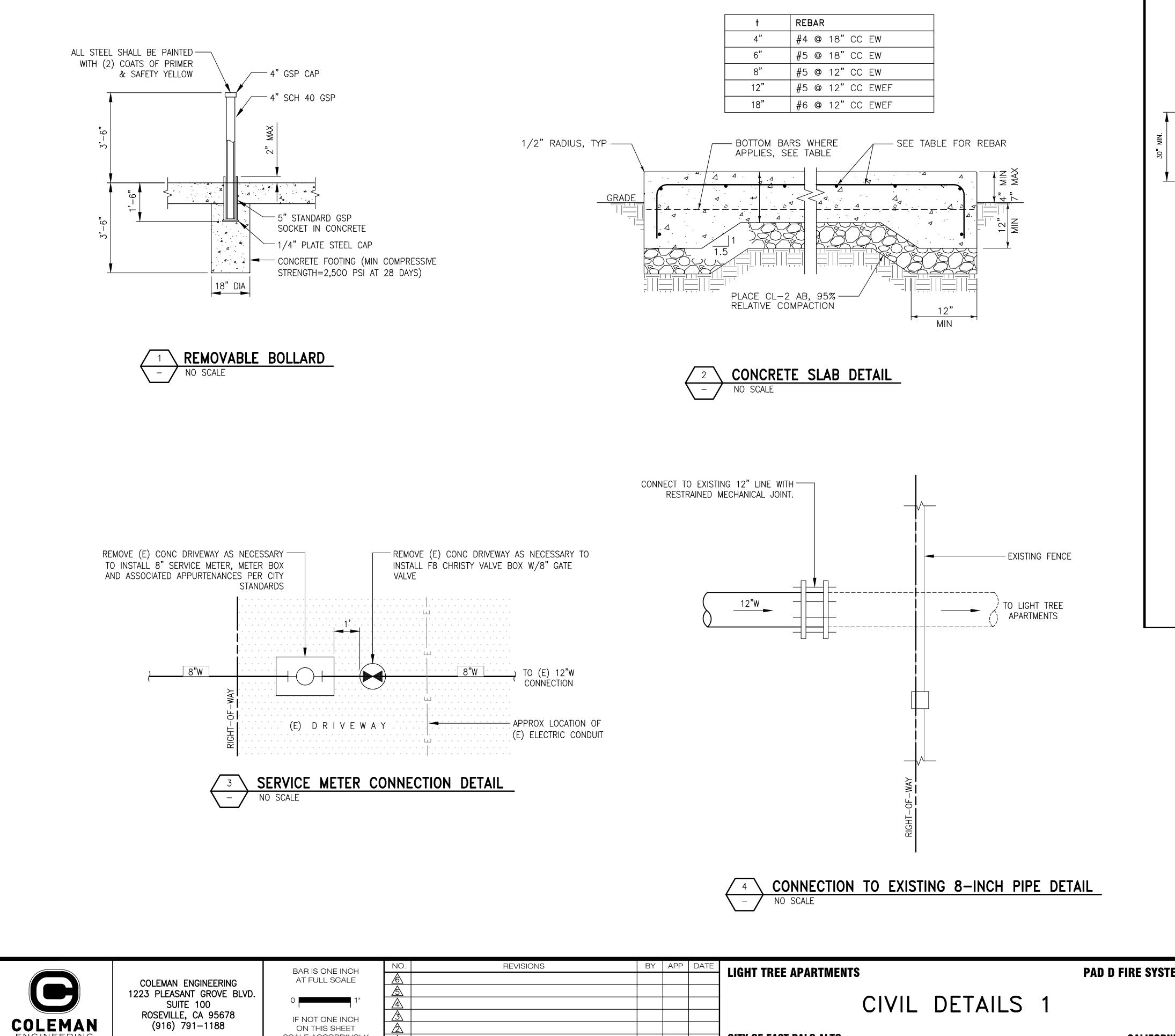
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20 S:\\_PROJECTS\EDEN20-001 - LIGHT TREE APARTMENTS STORAGE TANK\CADD\PAD D OPTION\C2 - PAD D GRADING PLAN.D'





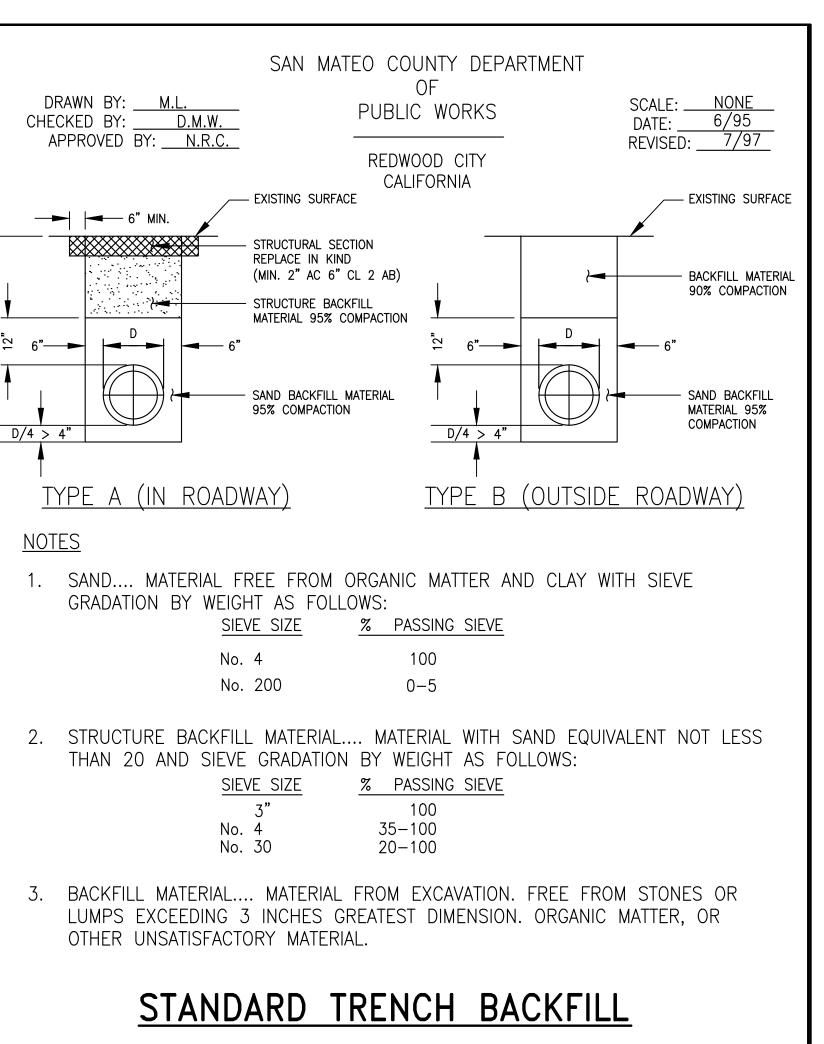
ENGINEERING

SCALE ACCORDINGLY

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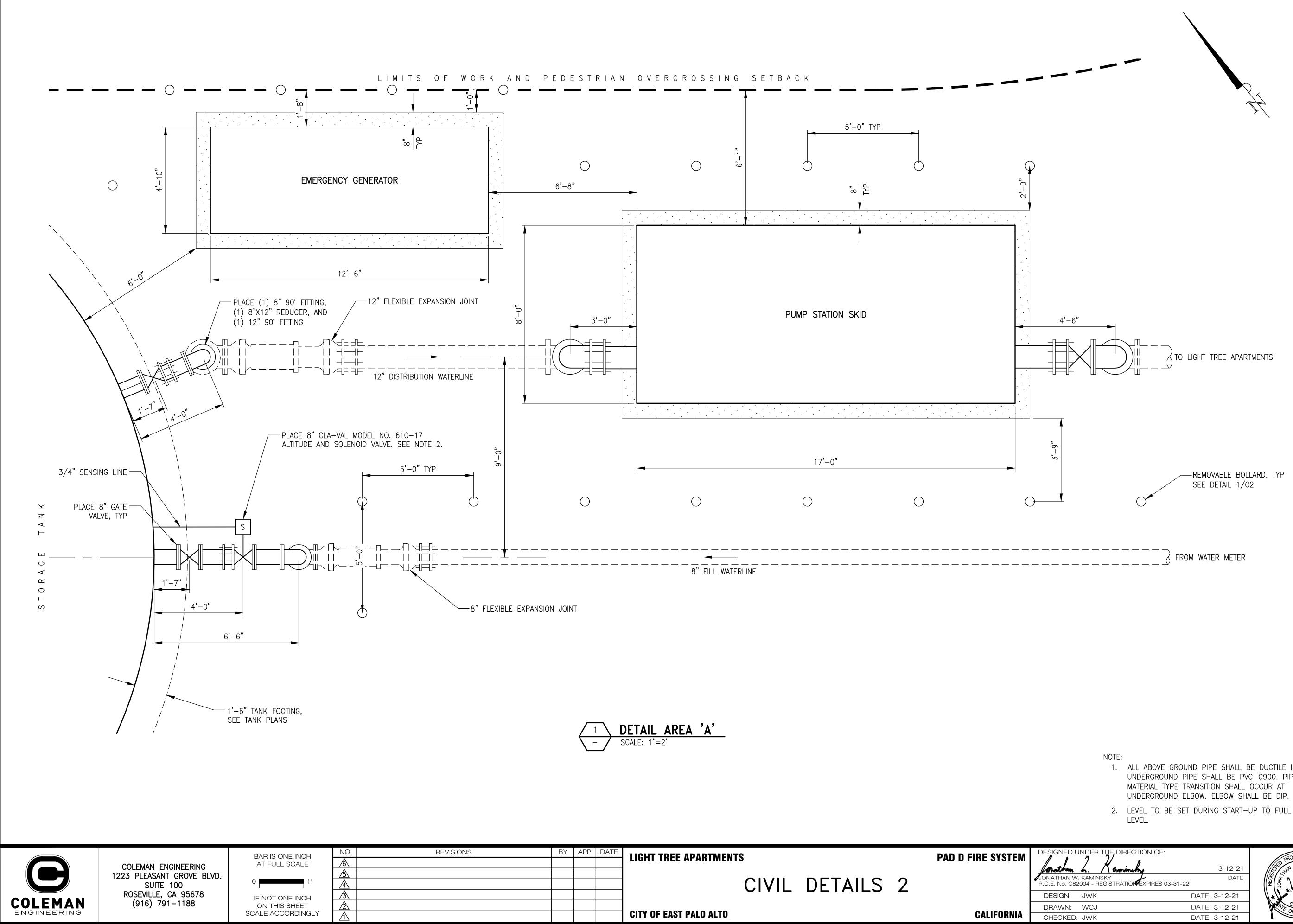
ΒY	APP DATE	LIGHT TREE APARTMENTS	PAD D FIRE SYSTEM	DESIGNED UNDER THE DIRECTION OF:		OPOFESSION D	SCALE
				Grathan L. Karminshy	3-12-21	AN AN AN EL	AS SHOWN
				JONATHAN W. KAMINSKY	DATE	LIN A ALL CLASS	DRAWING NUMBER
		CIVIL DETAILS 1		R.C.E. No. C82004 - REGISTRATION EXPIRES 03-31-22			C4
					3-12-21	CIVIL JUN	SHEET NUMBER
				DRAWN: WCJ DATE: (	3-12-21	PF OF CALIFORNI	
		CITY OF EAST PALO ALTO	CALIFORNIA	CHECKED: JWK DATE: 3	3-12-21	3-12-21	<b>7</b> OF <b>28</b> SHEETS

12



## AND BEDDING DETAIL

W-10

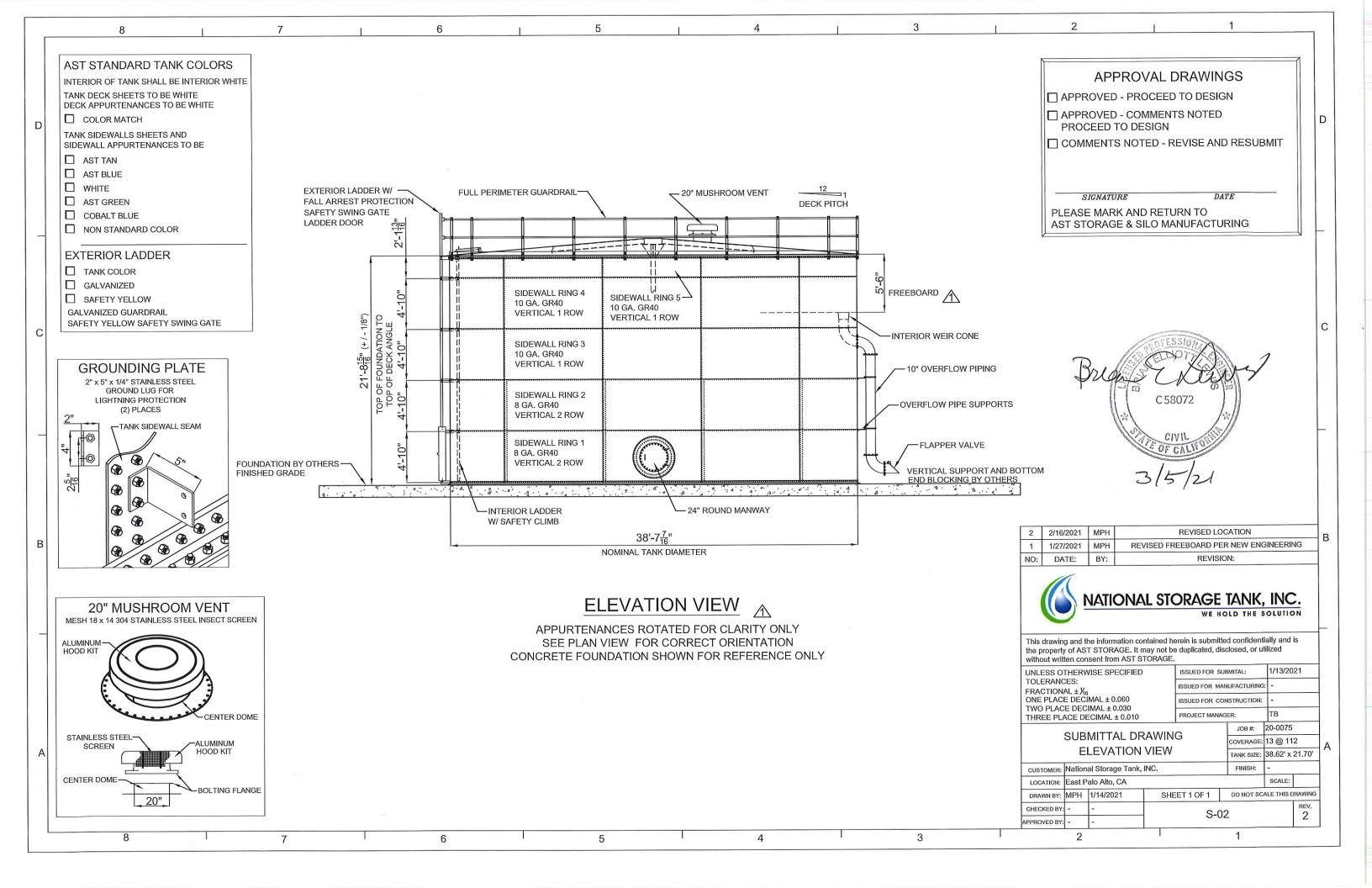


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PAD D FIRE SYSTEM DATE LIGHT TREE APARTMENTS PAD D FIRE SYSTEM DESIGNED ONDER THE DIRECTION OF. 3-12-21	AS SHOWN
DESIGN: JWK DATE: 3-12-21	60
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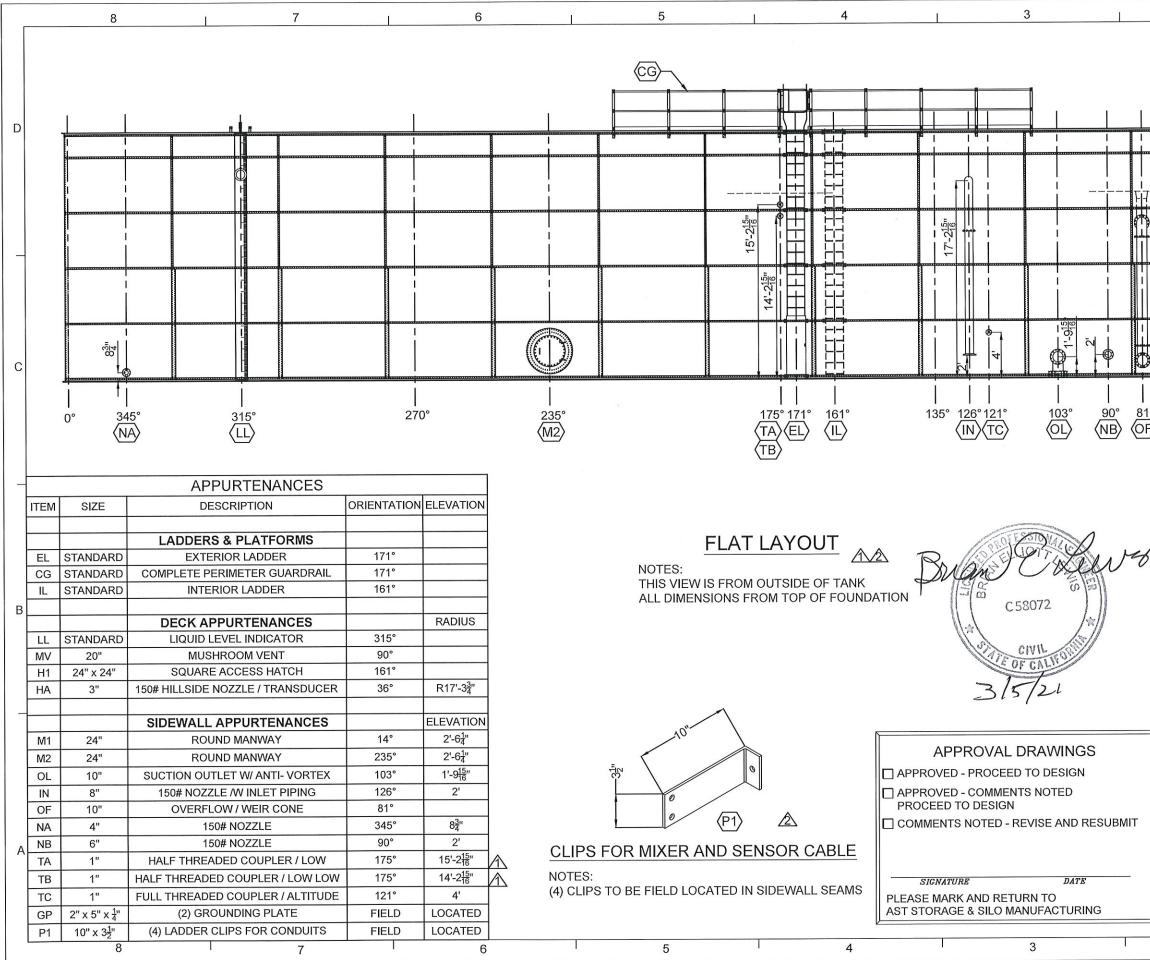
- 1. ALL ABOVE GROUND PIPE SHALL BE DUCTILE IRON. UNDERGROUND PIPE SHALL BE PVC-C900. PIPE
- 2. LEVEL TO BE SET DURING START-UP TO FULL TANK

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	DECIONINGTER						
	DESIGN NOTES:	MATERIALS OF C	JUNSTRUCTI	JN.			
	1. JOB SITE LOCATION (East Palo Alto, CA)	1. W BEAMS = ASTM A	992				
		2. C CHANNEL = ASTM	1 A992				
	2. REFERENCES:	3. ANGLE = A36 4. PLATE = ASTM A572	2			SUBMITTAL RE	VISIONS
	2.1 AWWA D103 2019 NFPA-22	5. BOLTS = GRADE 8 1				REVISION NUMBER	R1
D	3. WIND LOADS:	COATING Fy = $130,0$	000 psi Fu = 150,00	0 psi		DATE REVISED	1/27/2021
_	3.1 WIND CODE = ASCE 7- 10	UNLESS OTHER WI	SE NOTED			PAGE REVISED	S-01
	3.2 WIND VELOCITY = 115 MPH	6. GASKETS = EPDM 7. SEALANT = MANUS				PAGE REVISED	S-02
	3.3 IMPORTANCE FACTOR (Iw) = 1.00	8. SIDEWALL SHEET 1		AGE S-02		PAGE REVISED PAGE REVISED	S-03 S-04
	3.4 EXPOSURE = C	9. DECK ANGLE TO BE				PAGE REVISED	S-04
	4. SEISMIC LOADS:	DECK SHEETS TO E				PAGE REPLACED	S-06
_	4.1 IBC/ASCE 7 RISK CATEGORY IV	DECK RAFTERS TO				REVISION NUMBER	R2
	4.2 SEISMIC IMPORTANCE FACTOR (Ie) = 1.50	DECK ANGLE SPLIC				DATE REVISED	2/5/2021
	4.3 SITE CLASS = D	DECK ANGLE SPLIC			r" GR36	PAGE REVISED	S-01
	22 4.5 S1 = 61.3%	ALUMINUM 3003 GA 10. CENTER POLE TO		Ζ		PAGE REVISED	S-03
		OD OF COLUMN TO				PAGE REVISED	S-04
	5. DESIGN LOADS:	OD TOP PLATE TO				PAGE REVISED REVISION NUMBER	S-06 R3
	5.1 ROOF LIVE LOAD = 25 psf 5.2 GROUND SNOW LOAD = 0 psf	THICKNESS OF TO	P PLAT TO BE $\frac{1}{4}$ "			DATE REVISED	2/16/2021
С	state and the product of the state of the st	THICKNESS OF (8)		<u>5</u> 1		PAGE REVISED	S-01
C	6. CORROSION ALLOWANCE	OD OF BASE PLATE				PAGE REVISED	S-02
	6.1 SHELL CORROSION ALLOWANCE = 0.0000 in	THICKNESS OF BAS				PAGE REVISED	S-03
	6.2 BOTTOM PL CORROSION ALLOWANCE = 0.0000 in	11. BOTTOM ANGLE T		" x ¼" LLV		PAGE REVISED	S-04
	6.3 DECK SHEET CORROSION ALLOWANCE = 0.0000 in	FLOOR SHEETS TO				PAGE REVISED	S-05
	7. MATERIAL STORED: WATER	BOTTOM ANGLE S ALUMINUM 3003 B				PAGE REVISED	S-06
		ALUMINUM 3003 G			,		
-	8. PURPOSE = FIRE PROTECTION						
	9. SPECIFIC GRAVITY = 1.00						
		2					
	10. FREEBOARD = 66.00 INCHES		GENE	RAL NOTE:			
	11. WORKING CAPACITY = 137,625 US GALLONS		1 HOR	ZONTAL SHELL	BOLT SPACING	G = 2.33"	
			2. VER	TICAL SHELL BO	OLT SPACING =	2.32"	
Р	12. MIN. OPERATING LEVEL = 6 INCHES (outlet/vortex plate to overflow)	)		FLANGES TO BE		ATED	
В				ESS SPECIFIED		BE PER AWS D1.1,	
				D1.2, AWS D1.6			
	1. The calculation provide for the structural design of all major tank compo	onents. Please contact AST		NOZZLES TO ST			
	Storage for design of any structural			ESS SPECIFIED		-	
	component not specifically included within the calculations.				ON IS MEASURE	D FROM TANK SIDEWALL	ТО
	2. AST Storage is not responsible for the design of any portion or compor	nent of tank that is not		E OF FLANGE	IECTION IS MEA	SURED FROM DECK SHE	ET TO
-	specifically included in the calculations and or drawings.		FAC	E OF FLANGE			
						ROM TOP OF ROLLED TOP	P ANGLE
	<ol> <li>AST Storage shall be provided written notice and shall approve any mo tank including but not limited to (a) installation of</li> </ol>	odifications to the original	TO	TOP OF WATER	LINE		
	additional openings; (b) modifications to openings; (c) attachments of e	equipment: (d) application of					
	external or internal forces not included in						
	the original calculations; (e) any other deviations from the original desi	ign intent.					
		with a shall lavale and the					
А	4. Tank foundations shall be level, within $\frac{1}{8}$ " in any 30' circumference unde	er the shell. levelness on the	NOTES:	outprettel drawte	a process is to b	elp eliminate the need for co	stly corrective
	circumference shall not vary more than $\frac{1}{4}"$ from the established plane.		measures in the	e design phase. T	his information w	ill be submitted to the design	team after the
			submittals are a	approved.			
	5. It is the customer's responsibility to ensure that proper tank ventilation i	is provided and maintained	AST STORAGE	E submittals - Mat		tion, Appurtenance location,	Engineering design
	at all times.			sign codes & Ger notified if anythir		design phase	
	6. Tank is to be supported on one of the foundation types described in AV	WWA D103.	Customer to be	nouneu n anyunn	ig changes in the	นธราวาที่ ทางออ	
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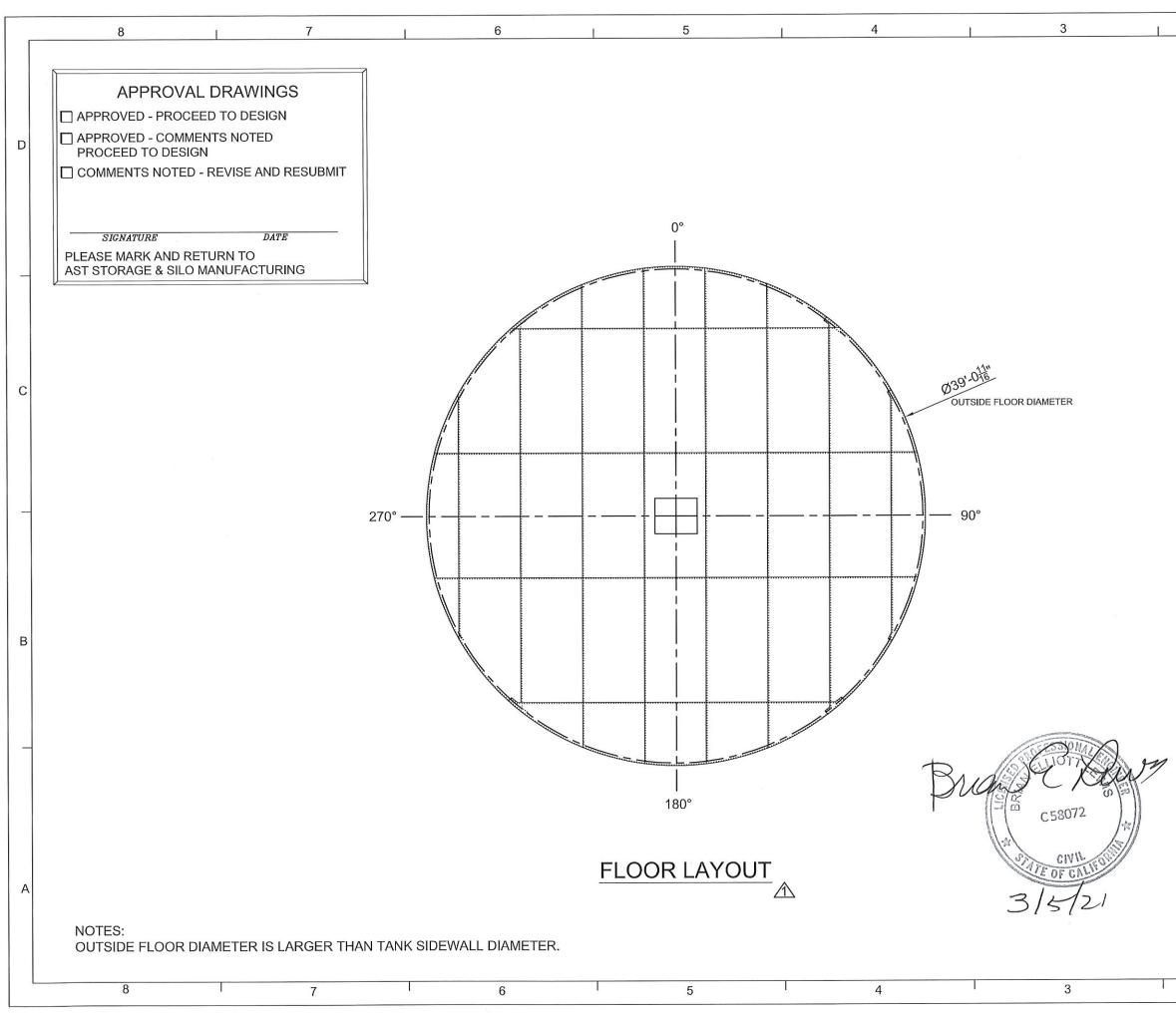
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	TWO PLACE DECIMAL ± 0.030						PROJECT MA			тв		1
1		THREE PLACE DECIMAL ± 0.010						JOB	#:	20-0075		
1			SUBMITTAL DRAWI					COVER	AGE:	12 @ 11		A
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1	CUST	LIQ TOMER: ATION:	UID Nation East P	TANK al Storage alo Alto, C	DESI e Tank, I CA	NC.	OTES	FINIS	SIZE: 3 SH:	38.62' x 2 - SCALE:	21.70'	A
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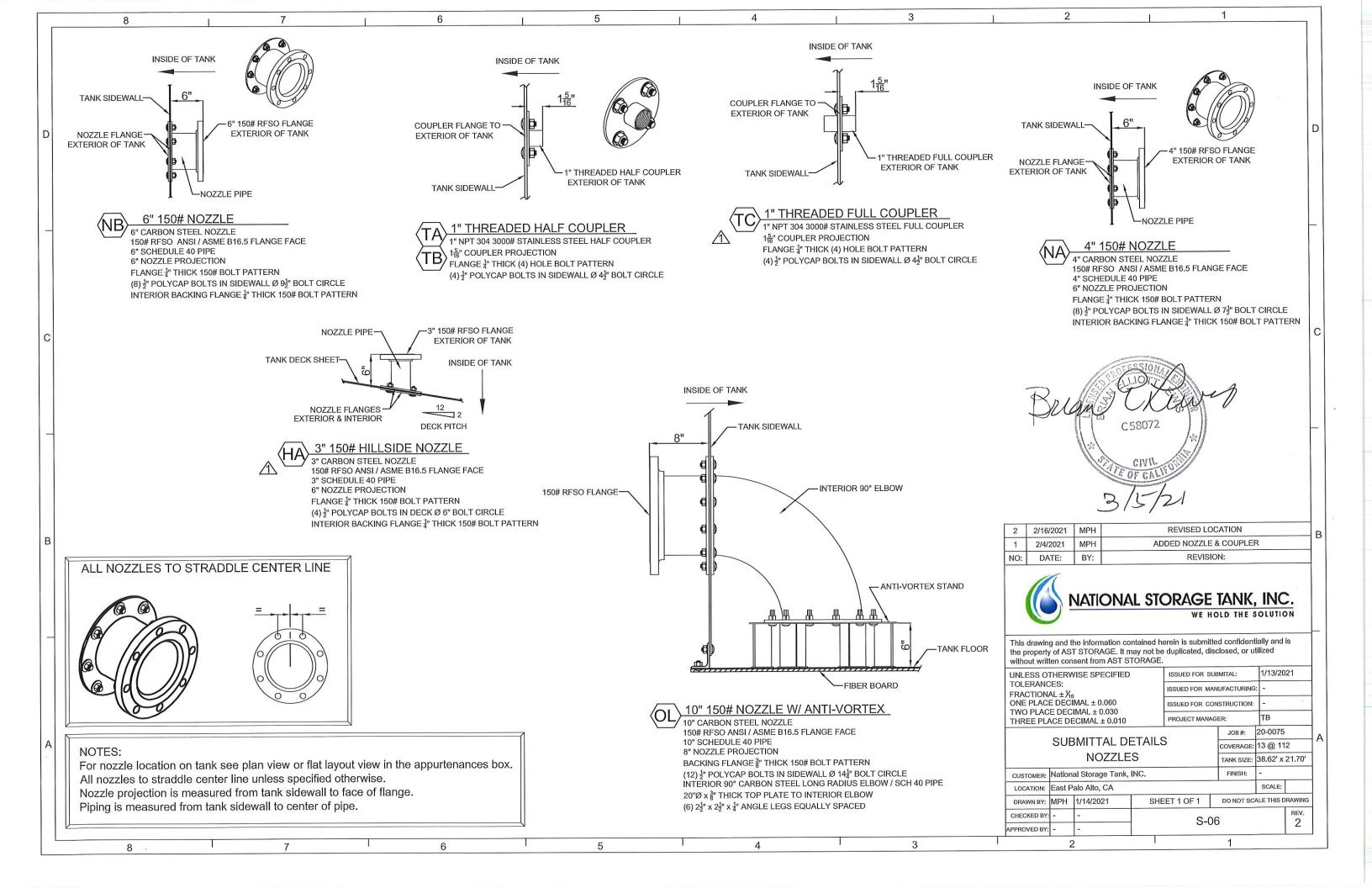
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	STANDARD	COMPLETE PERIMETER GUARDRAIL INTERIOR LADDER	171° 161°		235°	17				126°				
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B		DECK APPURTENANCES		RADIUS					and the second se			2 2/4/2021 MPH	MOVED APPURT	TENANCES
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MV	20"	MUSHROOM VENT	90°				/					NO: DATE: BY:	REVISIC	DN:
H1	24" x 24"	SQUARE ACCESS HATCH	161°					· · · · 161° 🛏	₩					
HA	3"	150# HILLSIDE NOZZLE / TRANSDUCER	R 36°	R17'-3 <sup>3</sup> 4"			TA TB 1	75° 171°				((A) NATIO	VAL STORAGE	
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	0.41		4.40	ELEVATION				60		SOULESSION	$\sim$	This drawing and the information	on contained herein is submitte	ed confidentially and is
M1	24"		14°	$2'-6\frac{1}{4}''$			<u>.                                    </u>		to a	1 ASTERIOT	SX. M	the property of AST STORAGE without written consent from AS	. It may not be duplicated, dis	closed, or utilized
M2	24"		235° 103°	2'-6 <u>4</u> " 1'-9 <u>15</u> "			PLA	N VIEW 🔊	PL	and M	200V	UNLESS OTHERWISE SPECI		BMITAL: 1/13/2021
OL	10" 8"	SUCTION OUTLET W/ ANTI- VORTEX 150# NOZZLE /W INLET PIPING	103°	2'		FRECTIO		ERIFY ZERO DEGF	EES ON SITE	176	IS R	TOLERANCES: FRACTIONAL $\pm \gamma_{16}$	ISSUED FOR MAN	NUFACTURING: -
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NA	4"	150# NOZZLE	345°	8 <u>3</u> "						14	1:2/	THREE PLACE DECIMAL ± 0.	PROJECT MANAG	JOB #: 20-0075
A NB	6"	150# NOZZLE	90°	2'						CIVIL	\$\$//	SUBMITTAL	DRAWING	JOB#: 20-0075 COVERAGE: 13 @ 112 A
	1"	HALF THREADED COUPLER / LOW	175°	15'-215"						OF CALIFO		PLAN		TANK SIZE: 38.62' x 21.70'
ТВ	1"	HALF THREADED COUPLER / LOW LOW	V 175°	14'-215"						3/5/2	1	CUSTOMER: National Storage T	ank, INC.	FINISH: -
TC	1"	FULL THREADED COUPLER / ALTITUDE		4'					а.		•	LOCATION: East Palo Alto, CA DRAWN BY: MPH 1/14/2021	SHEET 1 OF 1	SCALE: DO NOT SCALE THIS DRAWING
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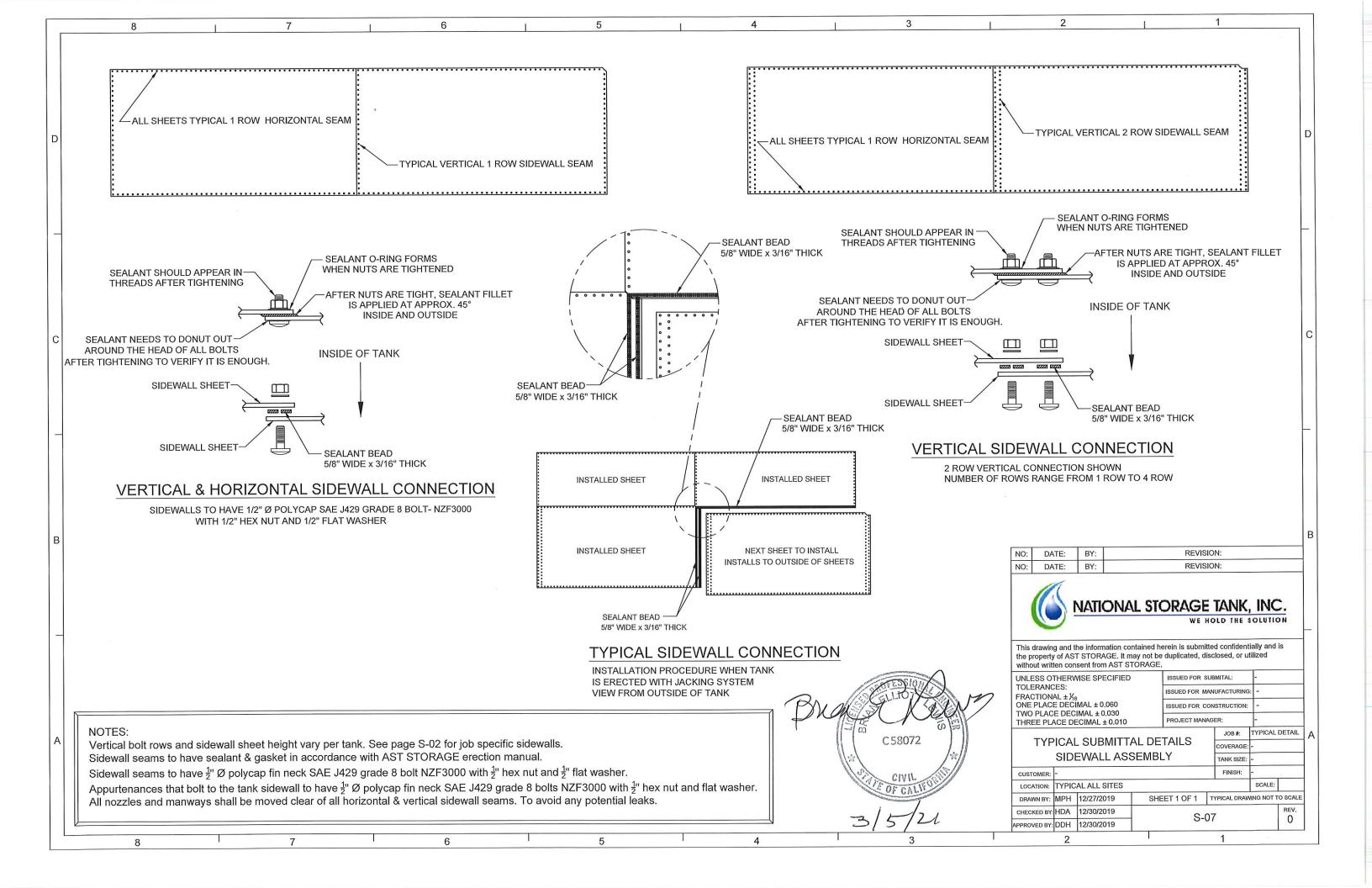


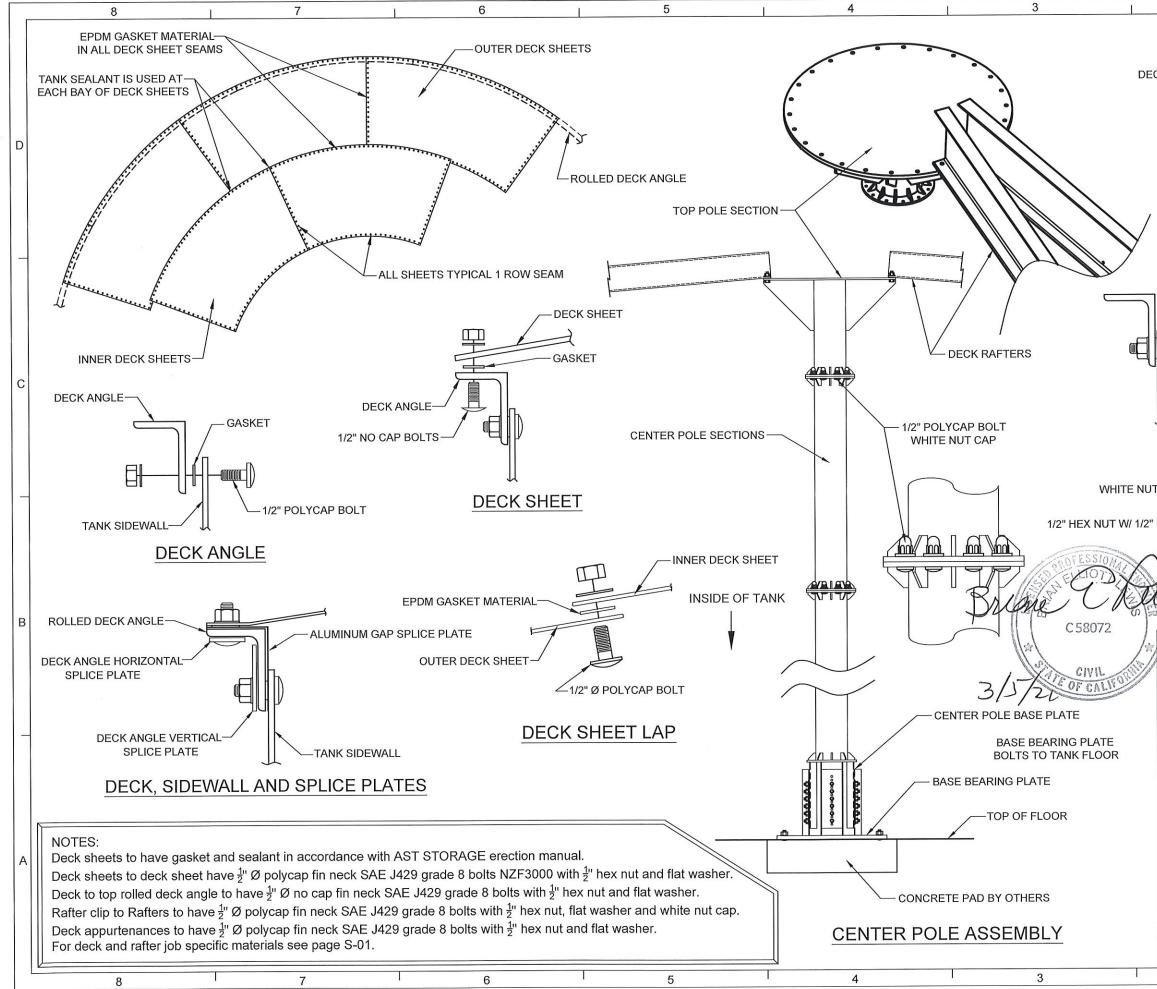
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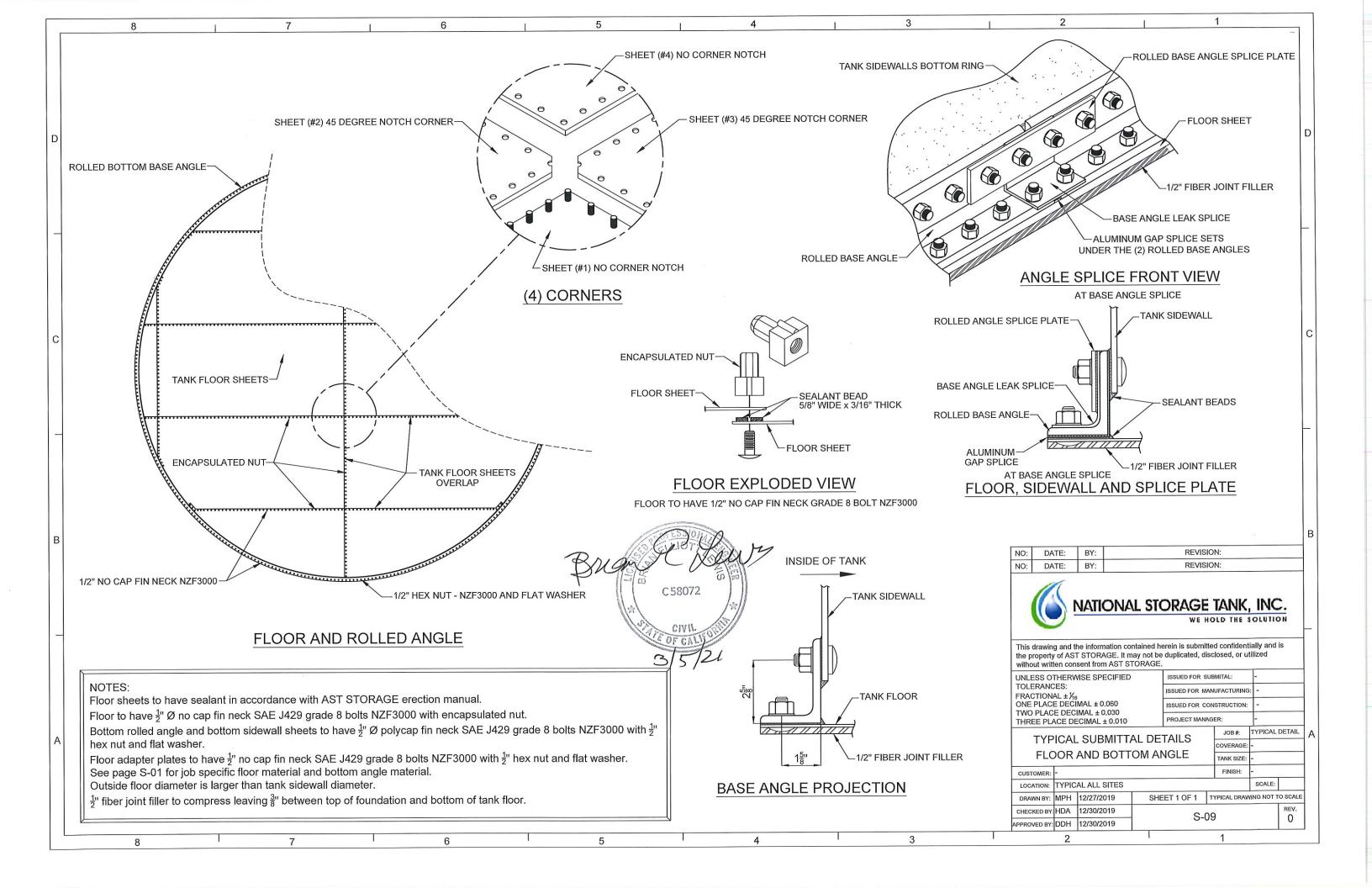
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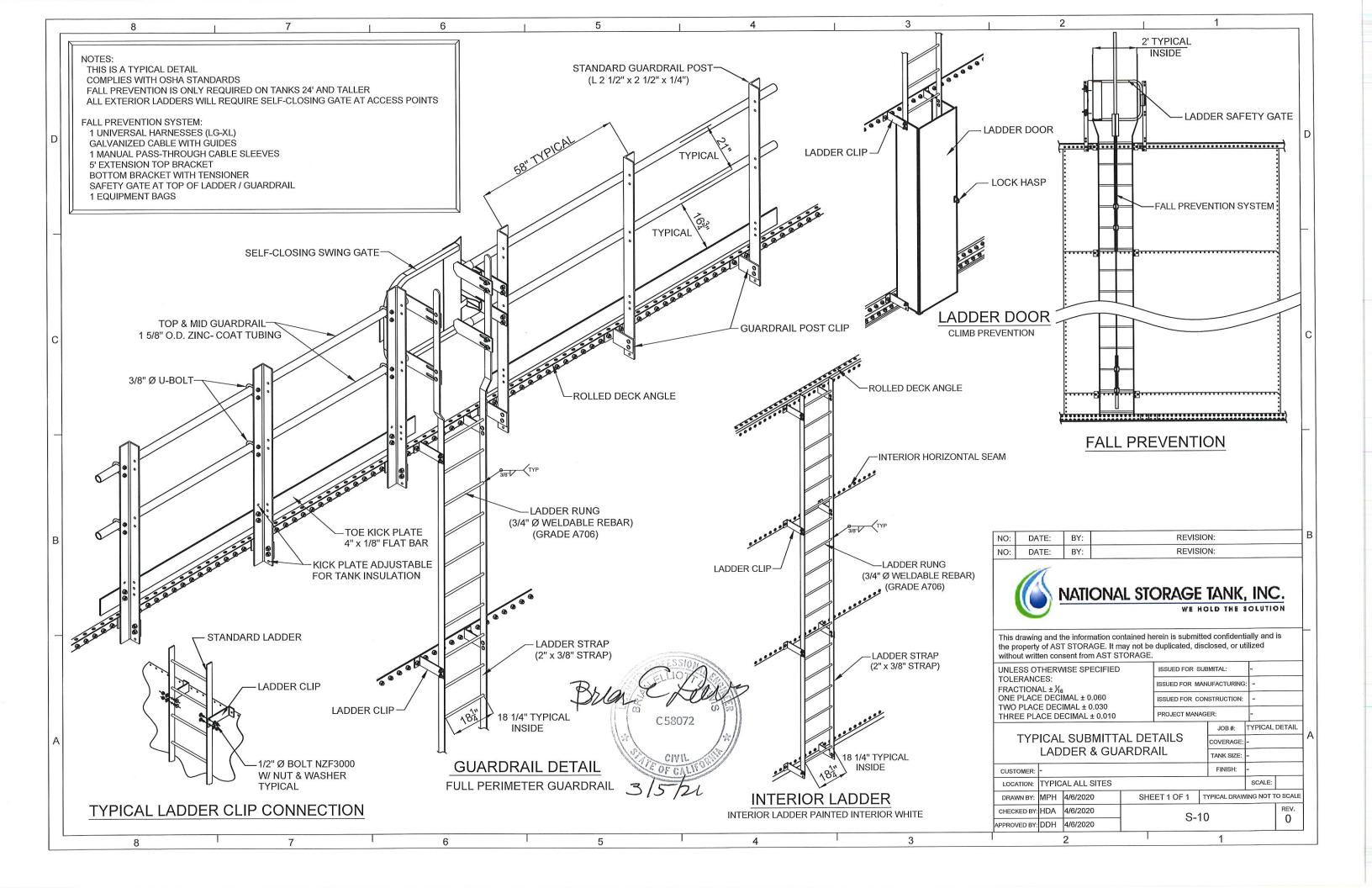


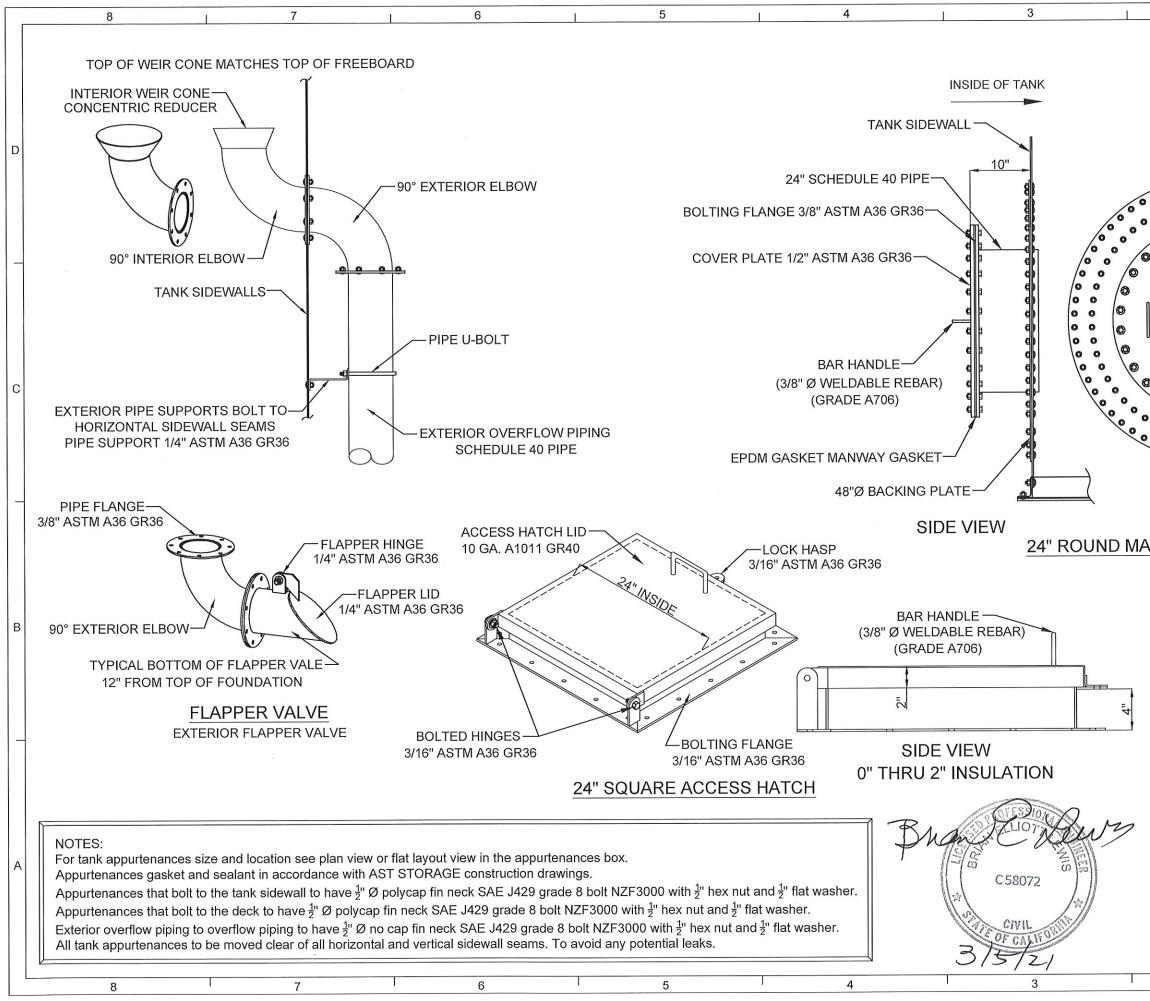




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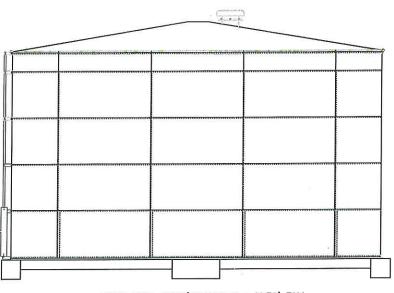


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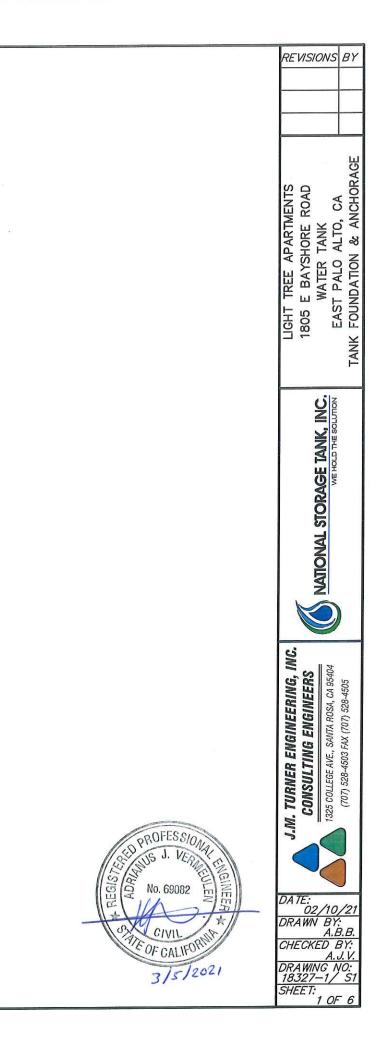


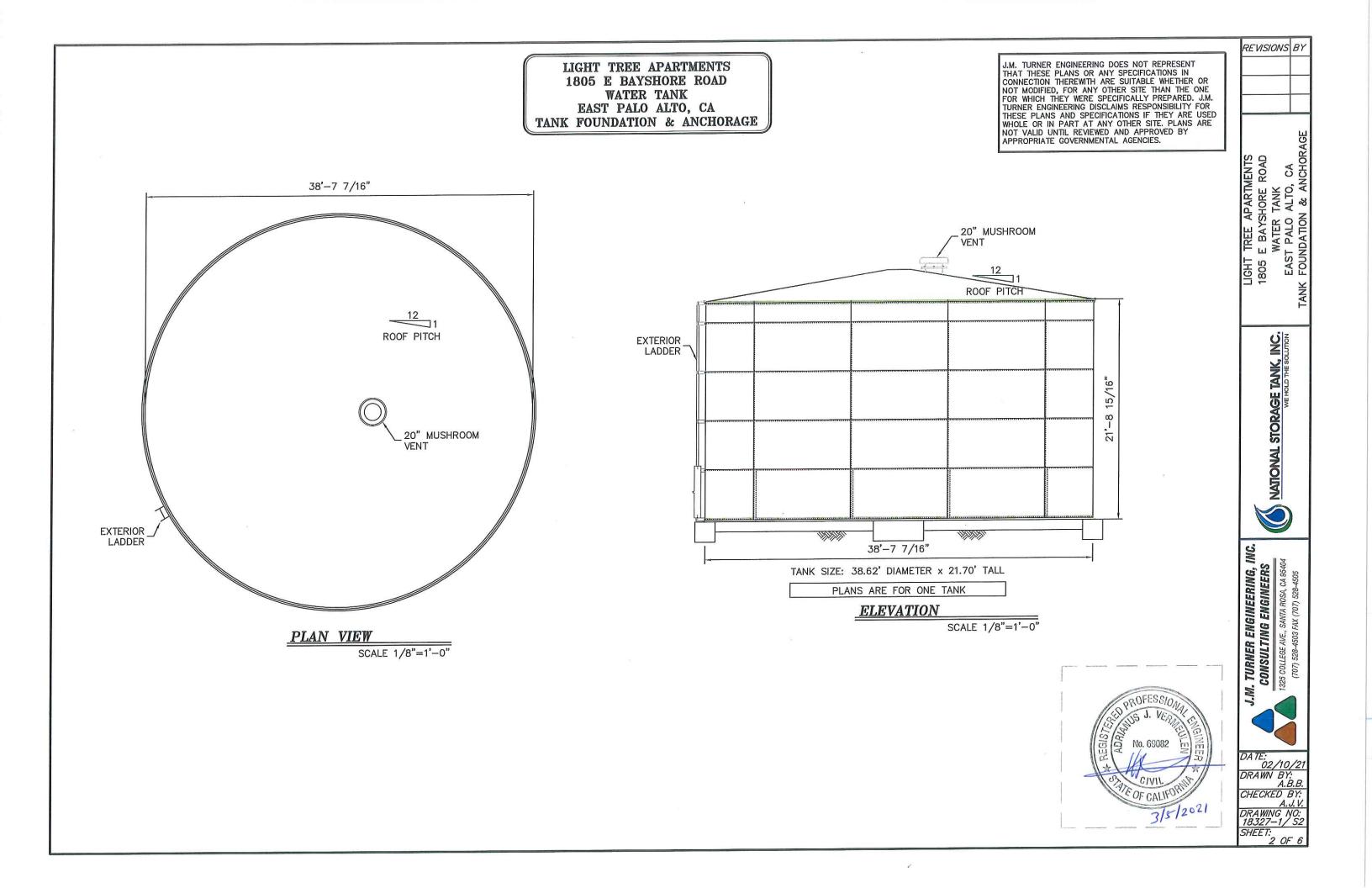
LIGHT TREE APARTMENTS 1805 E BAYSHORE ROAD WATER TANK EAST PALO ALTO, CA TANK FOUNDATION & ANCHORAGE

<b>INDEX:</b>		
	S/1 COVER PAGE	
SHEET S	5/2 TANK LAYOUT	
SHEET S	3 FOUNDATION PLAN	
	5/4 CONCRETE DETAILS	
	5/5 CENTER POLE DET.	AIL
SHEET S	5/6 NOTES	



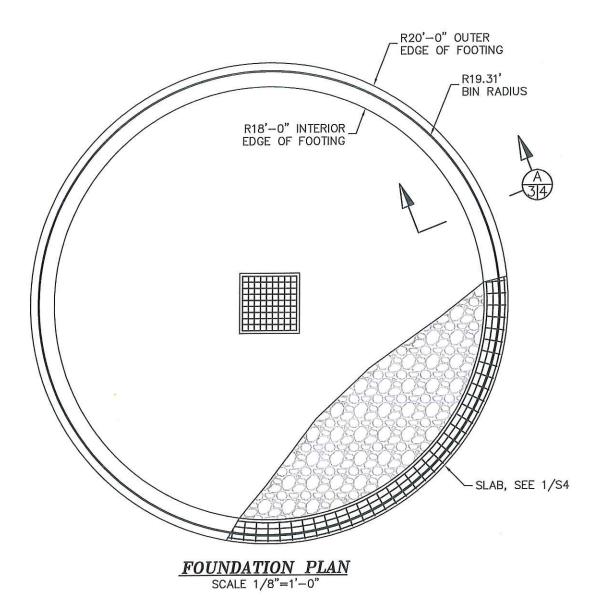
TANK SIZE: 38.62' DIAMETER x 21.70' TALL





LIGHT TREE APARTMENTS **1805 E BAYSHORE ROAD** WATER TANK EAST PALO ALTO, CA **TANK FOUNDATION & ANCHORAGE** 





NOTES:

- ACI 318.
- 2. 3.
- 4. THICKNESS OF 5 µ.
- 5. THE NUTS, PER AWWA SECTION 5.9.4, PART 4.
- 6. STRENGTH.
- 7.
- ALL REINFORCING STEEL TO BE 60 KSI MINIMUM YIELD STRENGTH. 8.
- 9.

J.M. TURNER ENGINEERING DOES NOT REPRESENT THAT THESE PLANS OR ANY SPECIFICATIONS IN CONNECTION THEREWITH ARE SUITABLE WHETHER OR NOT MODIFIED, FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. J.M. TURNER ENGINEERING DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED WHOLE OR IN PART AT ANY OTHER SITE. PLANS ARE NOT VALID UNTIL REVIEWED AND APPROVED BY APPROPRIATE GOVERNMENTAL AGENCIES.

1. FOUNDATION DESIGNED IN COMPLIANCE WITH AWWA D103-19 AND

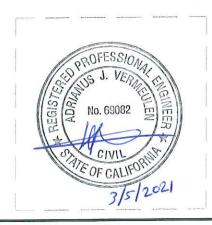
TYPE 2 FOUNDATION PER SECTION 13.4.2 OF AWWA D103-19. ALL APPLICABLE SECTIONS OF AWWA D103-19 AND ACI 318 SHALL BE FOLLOWED DURING CONSTRUCTION OF THIS FOUNDATION. ALL ANCHOR BOLTS SHALL BE GALVANIZED PER AWWA D103.19 SECTION 5.9.4, PART 2. ANCHORS INSTALLED USING HILTI EPOXY SHALL BE GALVANIZED OR ZINC COATED WITH A MAXIMUM

AT THE TOP OF ANCHOR BOLTS, LOCK NUTS SHALL BE PROVIDED OR THE THREADS SHALL BE PEENED TO PREVENT LOOSENING OF ALL CONCRETE SHALL BE 4,000-PSI MINIMUM COMPRESSIVE

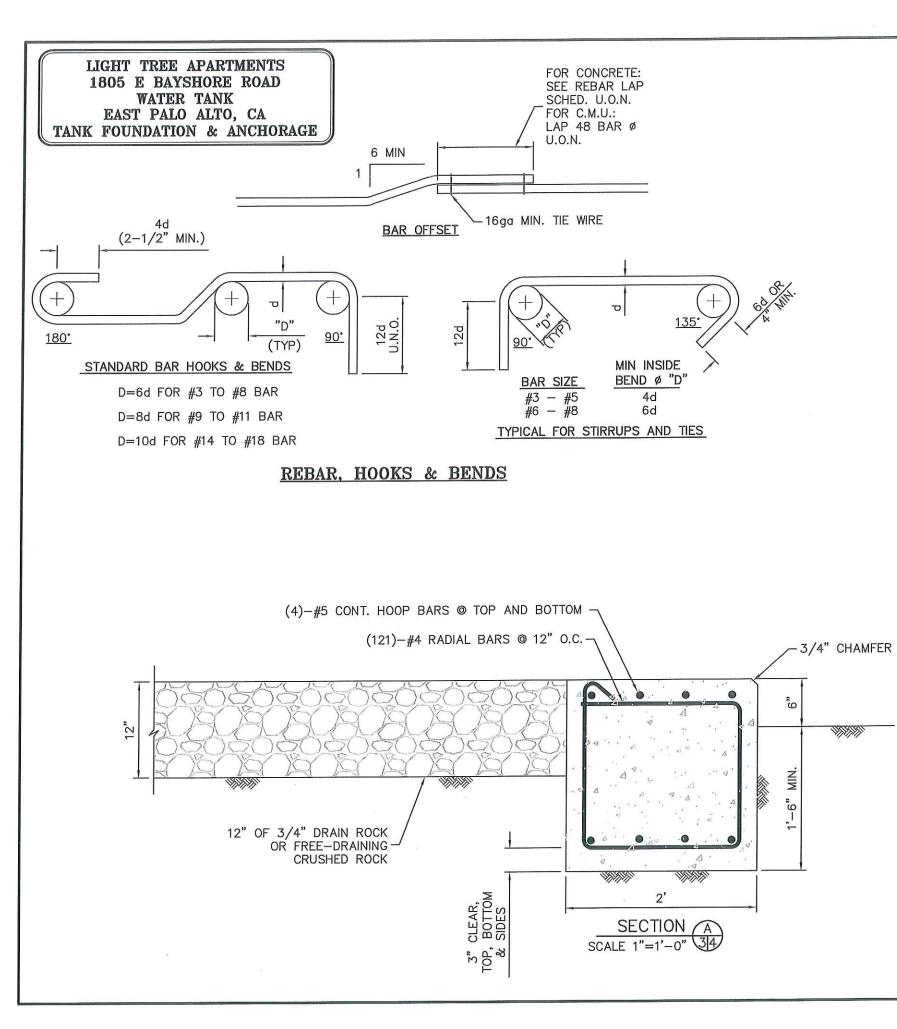
FOUNDATION SHALL BE LEVEL WITHIN ±1/8" IN ANY 30 FT CIRCUMFERENCE UNDER THE TANK SHELL. THE LEVELNESS ON THE CIRCUMFERENCE SHALL NOT VARY BY MORE THAN  $\pm 1/4"$  FROM AN ESTABLISHED PLANE. (REFERENCE AWWA D103).

REINFORCING STEEL MINIMUM LAPS (REFER TO TABLE ON SHEET S4). 10. TANK MANUFACTURED BY CHIEF INDUSTRIES, INC.

11. FOUNDATION SHALL BEAR ON APPROVED SUBGRADE PER THE PROJECT GEOTECNICAL REPORT. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO COORDINATE APPROVAL OF THESE DRAWINGS BY THE APPROPRIATE CITY/COUNTY AGENCY.



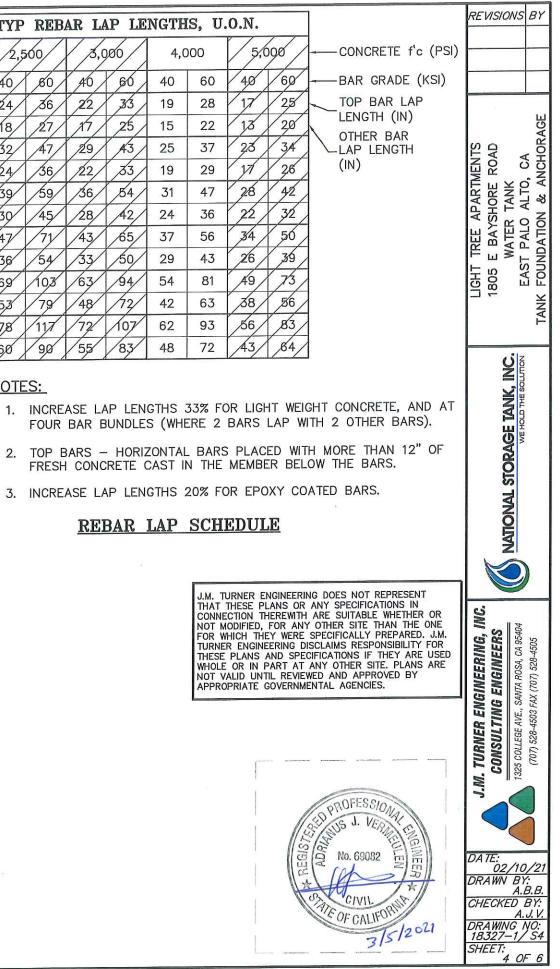


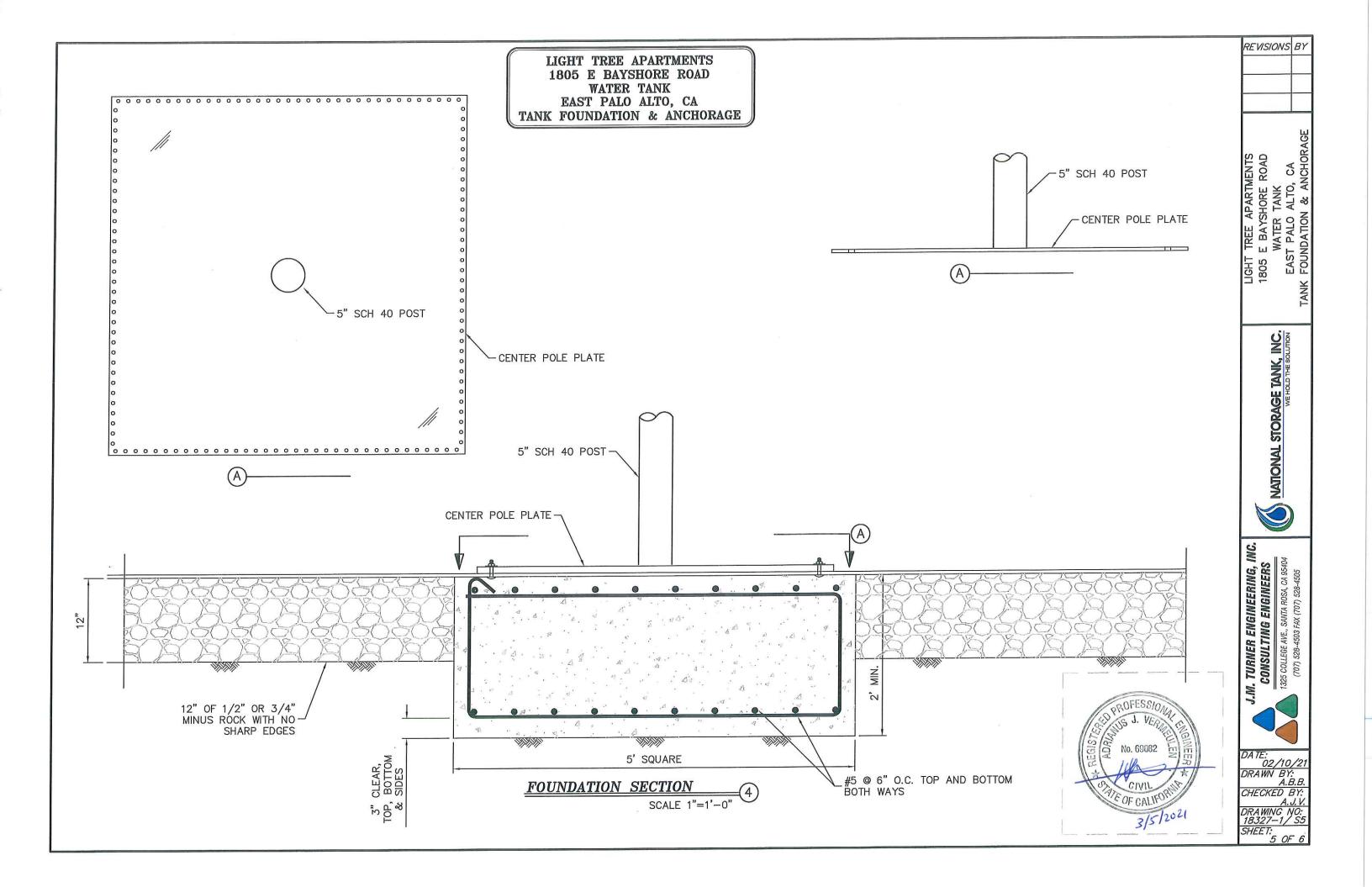


	TYP	REB	AR LA	P LE	NGTI	I
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"7	/24/	36/	22/	33	19	
#3	/18/	/27/	17	25	15	
	/32/	47/	29/	A3	25	
#4	/24/	/36/	/22/	53	19	
115	/39/	/59/	/36/	54	31	T
<b>#</b> 5	/30/	45/	/28/	/42/	24	
	47	/71/	/43/	65	37	T
#6	36	/54/	/33/	/50/	29	T
	69	103	63	/94/	54	T
<i>#</i> 7	53	79	48	/12/	42	T
	78	117	/72/	107	62	T
#8	60	90	55	/83/	48	T

### NOTES:

### **REBAR LAP SCHEDULE**





### GENERAL

- ALL PHASES OF THE WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE, AWWA D103, ASCE 7, UNIFORM PLUMBING, UNIFORM MECHANICAL & 2011 EDITION OF THE NATIONAL ELECTRICAL CODE PER CURRENT JURISDICTION REQUIREMENTS.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED 2. STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT SPECIFY METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS 7. SCOPE OF WORK AND PRECAUTIONS TO MAINTAIN THE STABILITY OF THE STRUCTURE AND PROTECT WORKMEN AND OTHER PERSONS DURING CONSTRUCTION. SPECIFIC ITEMS TO BE CONSIDERED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE ADEQUACY OF ALL FORMS, SCAFFOLDING, AND SHORING FOR CONSTRUCTION 8. IF CERTAIN MINOR DETAILS OF CONSTRUCTION ARE NOT FULLY DESCRIBED EQUIPMENT, SHORING OF RETAINING WALLS AND TEMPORARY LATERAL BRACING OF THE STRUCTURE.
- ASTM SPECIFICATIONS AND CBC STANDARDS REFERENCED IN THESE 3. DRAWINGS SHALL BE OF THE LATEST EDITION.
- 4. A QUALIFIED PERSON WHO IS ACCEPTABLE TO THE ENGINEER AND BUILDING DEPARTMENT SHALL PROVIDE SPECIAL INSPECTION, PER SECTION 1703 OF THE CALIFORNIA BUILDING CODE FOR THE SPECIAL INSPECTION REQUIREMENTS INDICATED BELOW. THE SPECIAL INSPECTION SHALL BE PERFORMED BY A QUALIFIED FIRM UNDER CONTRACT WITH THE OWNER. DISCREPANCIES OR SIGNIFICANT DEVIATIONS FROM THE APPROVED PLANS WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF UNCORRECTED, THESE ITEMS WILL BE REPORTED IN WRITING TO THE DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL WITHIN 24 HOURS. ROUTINE REPORTS, DETAILING SATISFACTORY WORK, WILL BE PREPARED AND SUBMITTED TO THE BUILDING OFFICIAL WITHIN FIVE WORKING DAYS.
- 5. GENERAL
- 5.1. IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 1703 OF THE CBC, THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE TYPES OF WORK INDICATED BELOW. ALL SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF THE CBC.
- 5.2. INSPECTIONS: SPECIAL INSPECTIONS THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS SHALL BE DONE BY AN INSPECTION AGENCY APPROVED BY THE LOCAL JURISDICTION.
- 5.3. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTION FIRM APPROVED BY THE COR, BUT RETAINED BY THE CONTRACTOR.
- 6. TESTING LABORATORY/SPECIAL INSPECTOR DUTIES.
- 6.1. PROVIDE QUALIFIED PERSONNEL AFTER DUE NOTICE, FROM THE OWNER, ARCHITECT AND/OR THE CONTRACTOR.
- 6.2. PERFORM INSPECTIONS AS FOLLOWS:
- 6.2.1. PERFORM SPECIFIED REVIEWS, INSPECTIONS, SAMPLING AND TESTING OF MATERIALS AS INDICATED BELOW.
- 6.2.2. VERIFY CONFORMANCES OF ALL SPECIAL INSPECTED WORK WITH THE APPROVED PLANS.
- 6.2.3. VERIFY THAT THE WORK COMPLIES WITH SPECIFIED STANDARDS.
- 6.2.4. ASCERTAIN COMPLIANCE OF MATERIALS WITH REQUIREMENTS OF THE APPROVED PLANS.
- 6.3. PROMPTLY NOTIFY ARCHITECT, STRUCTURAL ENGINEER AND CONTRACTOR OF OBSERVATION IRREGULARITIES OR DEFICIENCIES WITHIN ONE WORKING DAY, IF IRREGULARITIES OR DEFICIENCIES ARE UNCORRECTED, THE SPECIAL INSPECTOR SHALL NOTIFY THE ARCHITECT AND THE GOVERNING AGENCY.
- 6.4. PROMPTLY SUBMIT WRITTEN REPORT OF EACH TEST AND INSPECTION WITH A COPY OF EACH LEFT ON SITE FOR THE GOVERNING AGENCY. EACH **REPORT SHALL INCLUDE:**
- 6.4.1. DATE ISSUED.
- 6.4.2. PROJECT TITLE AND/OR NUMBER.
- 6.4.3. TESTING LABORATORY NAME, ADDRESS AND TELEPHONE NUMBER.
- 6.4.4. NAME AND SIGNATURE OF LABORATORY TECHNICIAN OR INSPECTOR.
- 6.4.5. DATE AND TIME OF SAMPLING, TEST OR INSPECTION.
- 6.4.6. TYPE OF INSPECTION OR TEST.
- 6.4.7. LOCATION OF SAMPLE OR TEST IN THE PROJECT.

- 6.4.8. TEST RESULTS. REPORT SHALL INDICATE COMPLIANCE OR NONCOMPLIANCE WITH APPROVED DETAILS AND PLANS.
- 6.5. IN ADDITION TO THE ABOVE REQUIRED REPORTS, THE SPECIAL INSPECTOR OR AGENCY SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF HIS/HER KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND THE APPLICABLE PROVISIONS OF THE CALIFORNIA BUILDING CODE (CBC).

7.0.1. CONCRETE, 4,000-PSI, (REBAR, SAMPLING AND PLACEMENT)

- ON THE DRAWINGS OR CALLED FOR IN NOTES OR SPECIFICATIONS THEIR CONSTRUCTION SHALL RESEMBLE SIMILAR CONDITIONS THAT ARE FULLY SHOWN AND SHALL BE REVIEWED BY THE ENGINEER.
- 9. GENERAL DESIGN DATA:

9.1. ROOF LIVE LOAD: 25 PSF 9.2. ROOF DEAD LOAD: 5.2 PSF 9.3. PRODUCT LOAD: 62.4 PCF (WATER) 9.4. WIND: 9.4.1. WIND CODE = ASCE7-169,4,2, WIND VELOCITY = 115 MPH 9.4.3. WIND IMPORTANCE FACTOR  $(I_w) = 1.00$ 9.4.4. WIND EXPOSURE = C 9.4.5. WIND RISK CATEGORY = 1 9.4.6. PER CBC 1603.1.4 9.4.7. INTERNAL PRESSURE COEFFICIENT = 0.18 9.4.8. EXTERNAL PRESSURE COEFFICIENT = -0.8 (ZONE 1) 9.4.9. EXTERNAL PRESSURE COEFFICIENT = -0.5 (ZONE 2) 9.4.10. VELOCITY PRESSURE = 18.0 PSF 9.5. SEISMIC: 9.5.1. SEISMIC USE GROUP = III 9.5.2. SEISMIC IMPORTANCE FACTOR (Ie) = 1.5 9.5.3. SEISMIC DESIGN CATEGORY = D 9.5.4. SITE CLASS = D 9.5.5. RISK CATEGORY N 9.5.6. SEISMIC FORCE RESISTING SYSTEM = TANK SELF WEIGHT 9.5.7. IMPULSIVE RESPONSE MOD FACTOR = 2.5

- 9.5.8. CONVECTIVE RESPONSE MOD FACTOR = 1.5
- 9.5.9. REDUNDANCY FACTOR = 1.0
- 9.5.10. DESIGN BASE SHEAR = 386,286 LBS
- 9.5.11. TANK & CONTENT WEIGHT = 1.184.575 LBS
- 9.5.12. SEISMIC RESPONSE COEFFICIENT = 0.179
  - $S_{S} = 1.5g$  $S_1 = 0.613g$
  - $S_{MS} = 1.5g$  $S_{M1} = 0.92g$
  - $S_{DS} = 1.0g$  $S_{D1} = 0.613g$
- 9.6. SITE LOCATION: EAST PALO ALTO, CA
- 10. FOR CALCULATIONS IN REGARDS TO THE TANK REFER TO THE STRUCTURAL CALCULATIONS BY CHUBB ENGINEERING, LLC, INC. DATED FEBRUARY 02, 2021 WITH PROJECT NUMBER: AST #20-0075 CE20359 r2.



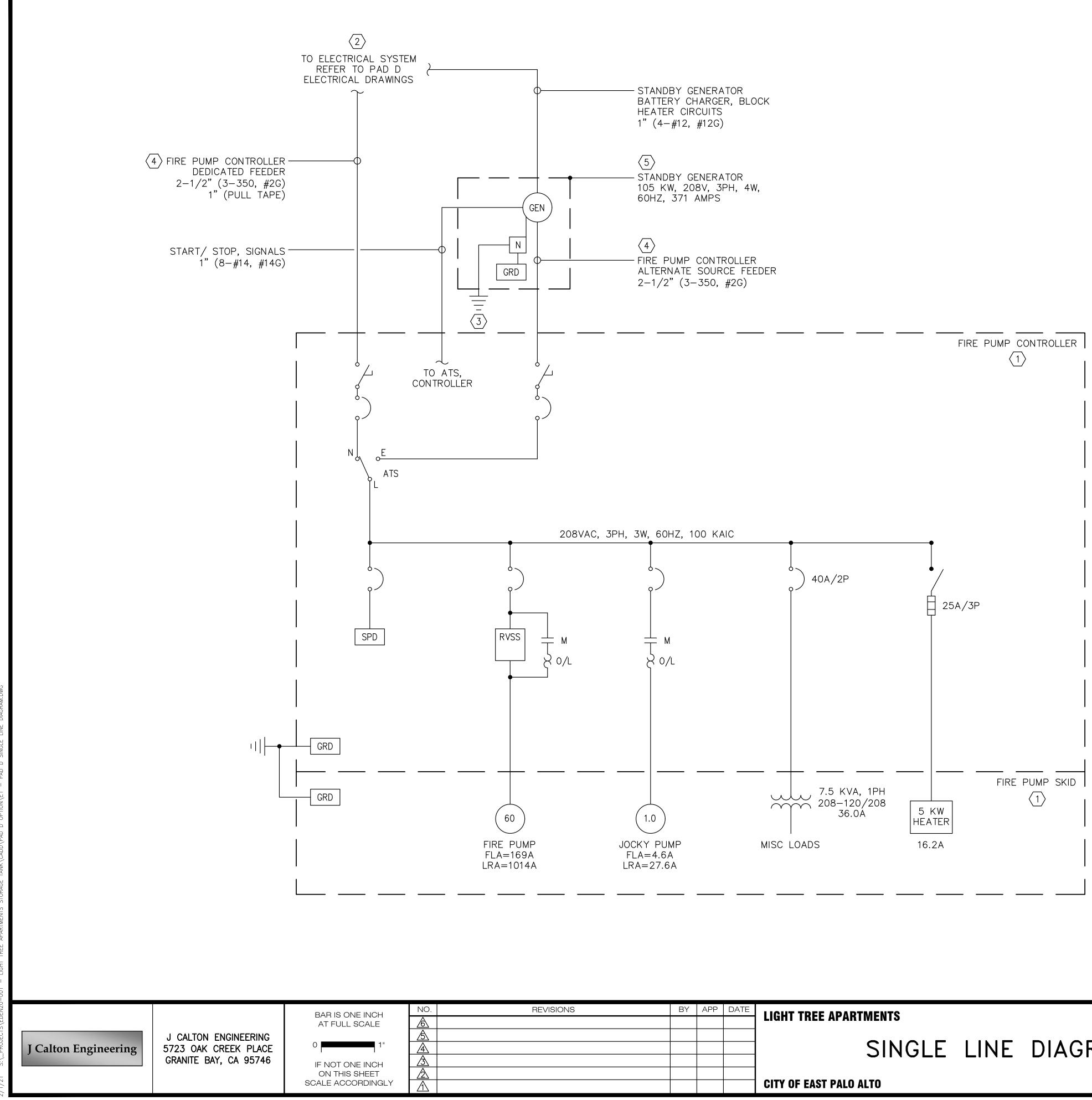
### FOUNDATION

- 1. THE FOUNDATION DESIGN BEARING CAPACITY OF 2. WIND/SEISMIC BASED ON 2016 WITH REPORT No. 20 GEO-1605 MOR
  - PH:
- 2. CONTRACTOR SHALL PROV GRADING IN ACCORDANCE EXCAVATED MATERIALS ON PLAN. ALL FILL WITHIN TH AS RECOMMENDED IN THE THE FOOTING AND SLAB M ALL GRADES SHOWN ARE GOVERN THE FINAL GRADE BUILDING SHALL BE PROPI THE BUILDING AT 1/4" IN 1
- CONTRACTOR SHALL COOR 3 CITY/COUNTY INSPECTOR

### **CONCRETE**

- 1. PORTLAND CEMENT SHALL II-LOW ALKALI. AGGREGAT ASTM C 33, AND GRADE MAXIMUM AGGREGATE SIZE CONCRETE SHALL NOT EXC ALL OTHER CONCRETE SHA 2. SHRINKAGE AT 28 DAYS S
- AS DETERMINED BY ASTM 3. REINFORCING BARS, ANCH PROPERLY LOCATED AND PLACING CONCRETE.
- 4. MINIMUM ULTIMATE COMPR DAYS (MINIMUM 6 SACKS W/C RATIO WITH WRA SHA
- 5. PROJECTING CORNERS OF WITH 3/4" CHAMFER UNLE
- 6. THE OUTSIDE DIAMETER (O PLANE OF A SLAB SHALL UNLESS SPECIFICALLY DET MIDDLE 1/3 OF SLAB, CLE OR PIPES SHALL BE TWICE OTHERWISE NOTES ON PLA 7. REINFORCING STEEL:
- 7.1. REINFORCING STEEL SHAL MASONRY, AND A 615 GF NOTED OTHERWISE ON TH WELDED SHALL CONFORM WELDED PER THE AMERIC
- CODE. 7.2. CLEAR COVERAGE OF CO SHALL BE 2" ON TOP AN NOTED).
- 7.3. ALL REINFORCING BAR BE
- 7.4. REINFORCING BARS SHALL ADDITIONAL SPLICING SHA
- 8. SPECIAL INSPECTIONS: 8.1. CONCRETE INSPECTIONS

	REVISIONS BY
HAS BEEN BASED UPON AN ALLOWABLE SOIL 500 PSF (DEAD + LIVE) AND 3,325 psf FOR THE GEOTECHNICAL REPORT DATED JUNE 22, 016.0060 BY:	
-LOGIC ASSOCIATES	
55 CAPUTO DRIVE, SUITE D GANHILL, CA 95037 (408) 778–2818 VIDE FOR ALL EXCAVATION, FILLING AND WITH THE DRAWINGS. DISTRIBUTE ALL N THE SITE AS INDICATED ON THE GRADING IE BUILDING SITE SHALL ACHIEVE COMPACTION GEOTECHNICAL REPORT. COMPACTION FOR MUST BE VERIFIED BY SPECIAL INSPECTION. APPROXIMATE AND SITE CONDITIONS WILL ES. ALL PORTIONS OF THE LOT ABOUT THE ERLY GRADED TO CARRY WATER AWAY FROM 12" MINIMUM SLOPE. RDINATE AN EXCAVATION INSPECTION BY THE PRIOR TO PLACEMENT OF REINFORCING.	LIGHT TREE APARTMENTS 1805 E BAYSHORE ROAD WATER TANK EAST PALO ALTO, CA TANK FOUNDATION & ANCHORAGE
THE FOR STONE CONCRETE SHALL CONFORM TO A PER THE CALIFORNIA BUILDING CODE. E FOR FOOTINGS, SLABS-ON GRADE AND MASS CEED 1-1/2"/ MAXIMUM AGGREGATE SIZE FOR ALL NOT EXCEED 3/4". SHALL NOT EXCEED 0.055% FOR DRY CURING C 157. IOR BOLTS, AND CONCRETE INSERTS SHALL BE SECURELY FASTENED IN POSITION PRIOR TO	STORAGE TANK, INC. WE HOLD THE SOLUTION
RESSIVE STRENGTH SHALL BE 4,000 PSI AT 28 OF CEMENT PER CUBIC YARD), THE MAXIMUM ALL NOT EXCEED 0.50. ALL CONCRETE MEMBERS SHALL BE FORMED ESS DETAILED OTHERWISE. DD) OF CONDUIT OF PIPE PLACED IN THE NOT EXCEED 30% OF SLAB THICKNESS FAILED OTHERWISE AND SHALL BE LOCATED IN EAR SPACING BETWEEN ADJACENT CONDUITS E THE LARGER OD MINIMUM, UNLESS	NATIONAL
ANS.	S INC
LL CONFORM TO A-615 GRADE 60 IN RADE 60 IN ALL OTHER CONCRETE, UNLESS HE PLANS. REINFORCING STEEL THAT IS TO BE 1 TO ASTM A706. GRADE 60 REBAR SHALL BE CAN WELDING SOCIETY STRUCTURAL WELDING ONCRETE OVER OUTER REINFORCING BARS ND 3" ELSEWHERE (UNLESS OTHERWISE	J.M. TURNER ENGINEERING, INC. CONSULTING ENGINEERS 1325 COLLEGE AVE., SANTA ROSA, CA 95404 (707) 528-4503 FAX (707) 528-4505
ENDS SHALL BE MADE COLD. L BE SPLICED AS SHOWN ON DRAWINGS. ANY ALL REQUIRE REVIEW FROM THE ENGINEER.	J.M. TURI CONS 1325 COLL
ARE TO BE PERFORMED BY OTHERS.	
	DA TE: 02/10/21 DRAWN BY: A.B.B. CHECKED BY: A.J.V. DRAWING NO: 18327-1/ S6 SHEET: 6 OF 6



BY	APP	DATE	LIGHT TREE APARTMENTS PAD D FIRE	SYSTEM	DI
			SINGLE LINE DIAGRAM		
			CITY OF EAST PALO ALTO	LIFORNIA	

### GENERAL NOTES:

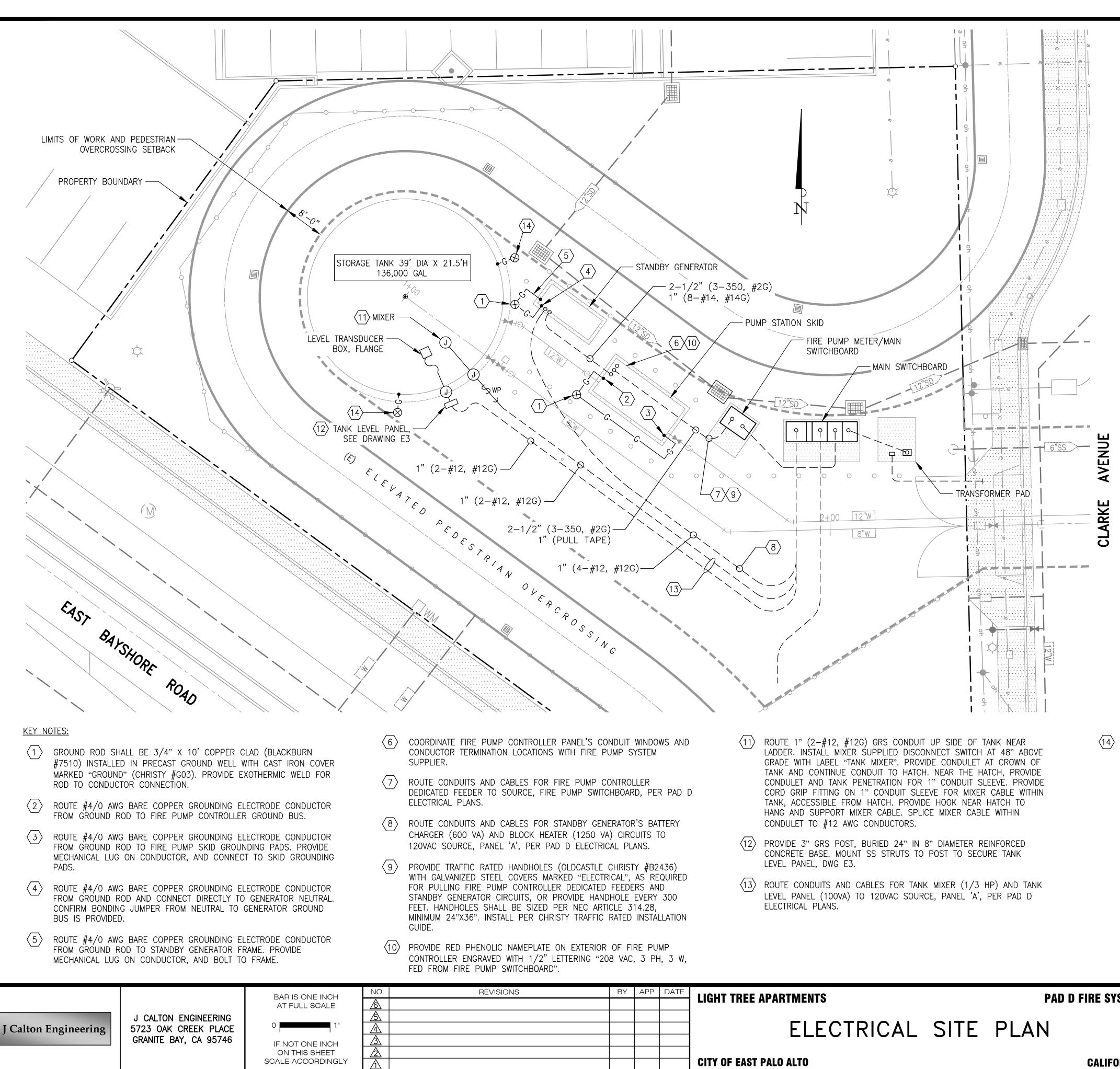
1. CONTRACTOR SHALL PROVIDE ALL WIRING AND POWER SUPPLY TO THE FIRE PUMP PER 2019 NFPA 20 CHAPTER 9 AND 2019 CEC ARTICLE 695. CONTRACTOR REQUIRED TO CONFIRM WITH LOCAL AUTHORITY HAVING JURISDICTION THAT THE WIRING FOR ALL FIRE PUMP POWER, INCLUDING GENERATOR INTERFACE FOR NON- INTERRUPTIBLE POWER SUPPLY FOR THIS EMERGENCY SYSTEM, AND POWER SUPPLIES, IS IN COMPLIANCE WITH UL 2200 AND 2019 CFC SECTION 604 FOR EMERGENCY POWER SYSTEMS. WORK TO BE PER 2019 CFC SECTION 604, SECTION 913, 2019 NFPA 20 CHAPTER 9, AND 2019 CEC ARTICLE 695. WORK REQUIREMENTS, MATERIALS, AND INSTALLATION SHALL MEET LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE TO SUBMIT AND OBTAIN APPROVAL OF SUBJECT MATERIALS, AND FINAL INSTALLATION OF SYSTEMS FROM THE LOCAL AUTHORITY HAVING JURISDICTION.

KEY NOTES:

- 1 NOT ALL FIRE PUMP CONTROLLER COMPONENTS AND SKID EQUIPMENT IS SHOWN. COORDINATE WITH FIRE PUMP SYSTEM SUPPLIER FOR DETAILS, EQUIPMENT SIZE AND CAPACITY.
- $\langle 2 \rangle$  REFER TO APARTMENT COMPLEX SINGLE LINE DRAWINGS, PANELBOARD SCHEDULES, AND SITE PLANS FOR CONTINUATION.
- $\langle 3 \rangle$  ROUTE #4/0 AWG BARE COPPER GROUNDING ELECTRODE CONDUCTOR FROM GROUND ROD DIRECTLY TO GENERATOR NEUTRAL. CONFIRM BONDING JUMPER FROM NEUTRAL TO GROUND IS PROVIDED.
- $\langle 4 \rangle$  conductors shall be sized such that voltage drop at line side of FIRE PUMP CONTROLLER DOES NOT EXCEED 15% UNDER FIRE PUMP MOTOR STARTING CONDITIONS. MINIMUM SIZE CABLE SHOWN.
- $\overline{(5)}$  STANDBY GENERATOR SHALL HAVE SUFFICIENT CAPACITY TO ALL NORMAL STARTING AND RUNNING OF THE MOTORS DRIVING THE FIRE PUMPS WHILE SUPPLYING ALL OTHER OPERATING LOADS. MINIMUM GENERATOR CAPACITY IS SHOWN.

LOAD CALCULATIONS PER NE	C ARTICLE 695	
LOADS SHOWN FOR 208 VAC,	THREE PHASE	
	FULL LOAD	LOCKED
LOAD DESCRIPTION	AMPS	ROTOR AMPS
FIRE PUMP (60 HP)	169.0	1014.0
JOCKEY PUMP (1.0 HP)	4.6	27.6
HEATER (5 KW)	16.2	16.2
TRANSFORMER (7.5 KVA, 1 PHASE)	36.0	36.0
25% CONTINUOUS LOADS	56.5	N/A
TOTALS	282.3	1093.8
MINIMUM FEEDER AMPACITY (KEY NOTE 4)	282.3	N/A
OVERCURRENT DEVICE RATING	N/A	2500

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- SUPPLIED WITH TANK.

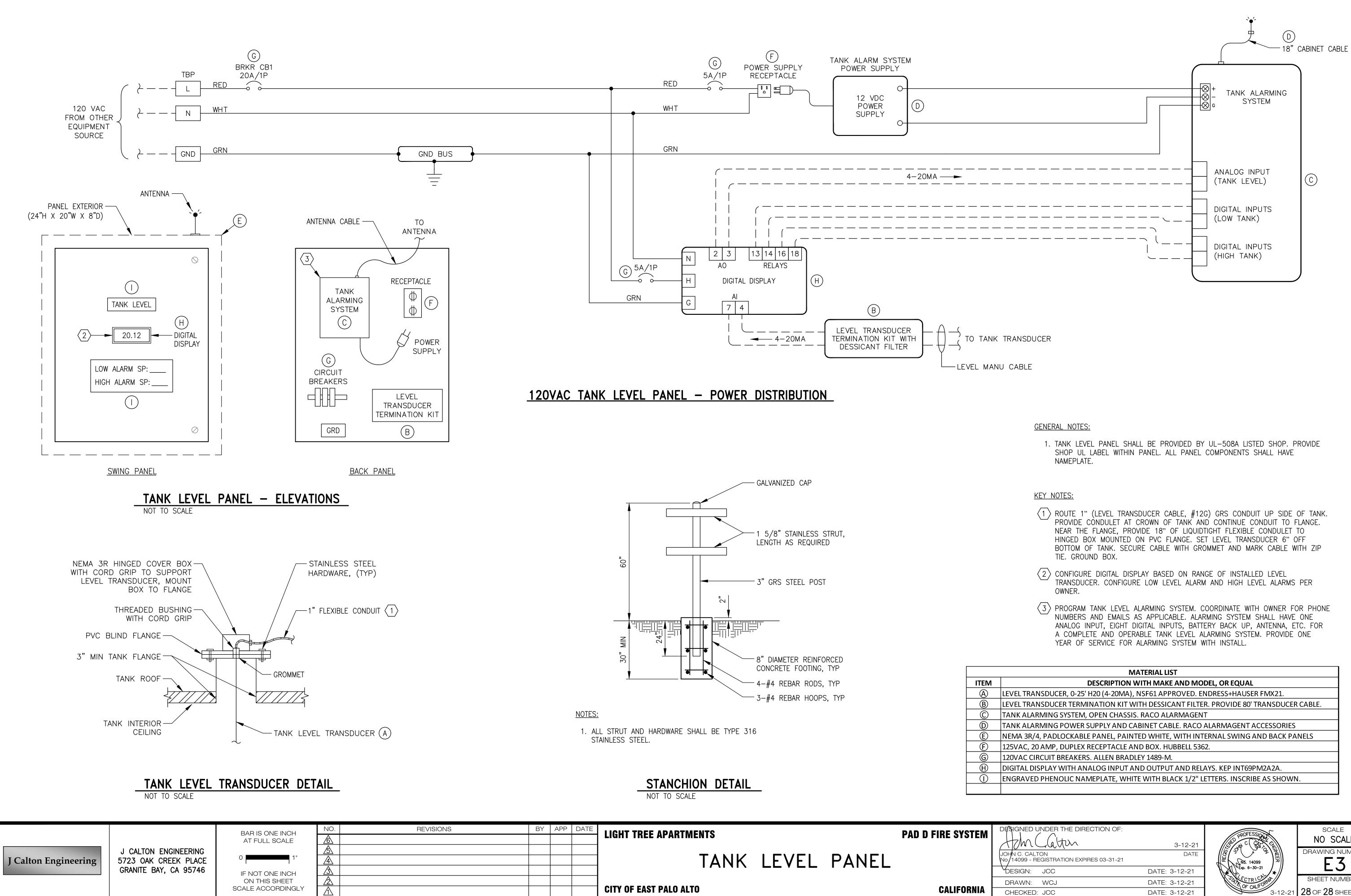
BY	APP	DATE	LIGHT TREE APARTMENTS	PAD D FIRE SYSTEM	DĘ
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			ELECTRICAL SITE PLA	NI	JO
			ELECTRICAL SHE FLAT	N	
			CITY OF EAST PALO ALTO	CALIFORNIA	(

### **GENERAL NOTES:**

- 1. CONTRACTOR IS REQUIRED TO PROVIDE ALL WORK BASED ON REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION. CONTRACT DRAWINGS DO NOT REPRESENT ALL REQUIRED WORK IN PLAN; CONTRACTOR SHALL REFER TO DRAWING NOTES, LOCAL AUTHORITY HAVING JURISDICTION, AND SUBJECT CODE REFERENCES FOR COMPLETE WORK REQUIREMENTS. WORK TO BE PROVIDED INCLUDES COMPLIANCE OF WIRING AND POWER SUPPLIES TO FIRE PUMP TO BE PER 2019 NFPA 20 CHAPTER 9, 2019 CEC ARTICLE 695, 2019 CFC SECTION 604, SECTION 913, AND UL 2200. WORK TO BE PROVIDED INCLUDES IDENTIFICATION, LABELING, AND BREAKER LOCK OUT DEVICES. CONTRACTOR IS RESPONSIBLE TO SUBMIT AND OBTAIN APPROVAL OF SUBJECT DESIGN AND MATERIALS, AND FINAL INSTALLATION OF SYSTEMS FROM THE LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL ALSO SUBMIT SAME TO ENGINEER, INCLUDING THE LOCAL AUTHORITY HAVING JURISDICTION, WRITTEN APPROVALS OF DESIGNS, MATERIALS, AND FINAL INSTALLATION. WHERE A CONFLICT EXISTS BETWEEN THE LOCAL AUTHORITY HAVING JURISDICTION AND APPLICABLE CODES. AND THE CONTRACT DOCUMENTS, THE LOCAL AUTHORITY AND APPLICABLE CODES SHALL GOVERN.
- 2. CONTRACTOR SHALL PROVIDE ALL WIRING AND POWER SUPPLY TO THE FIRE PUMP PER 2019 NFPA 20 CHAPTER 9 AND 2019 CEC ARTICLE 695. CONTRACTOR REQUIRED TO CONFIRM WITH LOCAL AUTHORITY HAVING JURISDICTION THAT THE WIRING FOR ALL FIRE PUMP POWER, INCLUDING GENERATOR INTERFACE FOR NON- INTERRUPTIBLE POWER SUPPLY FOR THIS EMERGENCY SYSTEM, AND POWER SUPPLIES, IS IN COMPLIANCE WITH UL 2200 AND 2019 CFC SECTION 604 FOR EMERGENCY POWER SYSTEMS. WORK TO BE PER 2019 CFC SECTION 604, SECTION 913, 2019 NFPA 20 CHAPTER 9, AND 2019 CEC ARTICLE 695. WORK REQUIREMENTS, MATERIALS, AND INSTALLATION SHALL MEET LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE TO SUBMIT AND OBTAIN APPROVAL OF SUBJECT MATERIALS, AND FINAL INSTALLATION OF SYSTEMS FROM THE LOCAL AUTHORITY HAVING JURISDICTION.
- 3. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED. MANUFACTURER NAMES AND MODELS LISTED HEREIN PROVIDE QUALITY AND SPECIFICATIONS REQUIRED; CONTRACTOR MAY PROVIDE APPROVED EQUAL.
- 4. ALL EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL (WESTERN TUBE) UNLESS SHOWN OTHERWISE.
- 5. ALL HARDWARE, STRUT, STRAPS AND ANCHORS SHALL BE 316 STAINLESS STEEL.
- 6. ALL CONDUCTORS SHALL BE 600 VAC, 90 DEGREE C, STRANDED COPPER, WITH XHHW-2 INSULATION (SOUTHWIRE SIMPULL XHHW-2). PROVIDE LUGS AT CABLE TERMINATIONS AS REQUIRED.
- 7. UNDERGROUND CONDUITS SHALL HAVE MINIMUM 24" COVER. PROVIDE 4" ENVELOPE OF SAND BACKFILL ALL AROUND CONDUITS. PROVIDE WARNING TAPE (ELECTRO-TAPE #84562) 12" ABOVE CONDUITS. RESTORE SURFACE TO ORIGINAL CONDITION OR PER CIVIL DRAWINGS.
- 8. GROUNDING ELECTRODE CONDUCTORS SHALL BE #4/0 AWG, SOFT DRAWN, STRANDED, BARE COPPER CONDUCTOR, ASTM B-3 (SOUTHWIRE BARE COPPER CONDUCTOR). GROUNDING ELECTRODE CONDUCTORS SHALL BE BURIED 36" BELOW GRADE.

 $\langle 14 \rangle$  PROVIDE GROUND ROD, 3/4" X 10' COPPER CLAD (BLACKBURN #7510) INSTALLED IN PRECAST GROUND WELL WITH CAST IRON COVER MARKED "GROUND" (CHRISTY #G03). PROVIDE EXOTHERMIC WELD FOR ROD TO CONDUCTOR CONNECTION. ROUTE #4/0 AWG BARE COPPER GROUNDING ELECTRODE CONDUCTOR FROM GROUND ROD TO TANK FIELD MOUNTED GROUND PLATE. STAINLESS STEEL GROUND PLATE

HTM Cattor	3-12-21	PROFESSION Sel un C CREATER	SCALE 1"=10'
JOHN C. CALTON No. 14099 - REGISTRATION EXPIRES 03-31-21	DATE	HE NO. 14099	DRAWING NUMBER
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ΒY	APP DATE	LIGHT TREE APARTMENTS	PAD D FIRE SYSTEM	DESIGNED UNDER THE DIRECTION OF:		PROFESSION	SCALE
			FAD DI ME SISIEWI	Azhn Clatten	3-12-21	A C C C C C C C C C C C C C C C C C C C	NO SCALE
		TANK LEVEL PANEL		JOHN C. CALTON No. 14099 - REGISTRATION EXPIRES 03-31-21	DATE		
		IAINK LEVEL FAINEL		DESIGN: JCC	DATE: 3-12-21	1 <sup>22</sup> (Nö. 14099 <sup>70</sup> Exp. 6−30−21 <b>★</b>	E3
				DRAWN: WCJ	DATE: 3-12-21	JAR ECTRICA	SHEET NUMBER
		CITY OF EAST PALO ALTO	CALIFORNIA	CHECKED: JCC	DATE: 3-12-21	3-12-21	28 OF 28 SHEETS

MATERIAL LIST DESCRIPTION WITH MAKE AND MODEL, OR EQUAL	
LEVEL TRANSDUCER, 0-25' H20 (4-20MA), NSF61 APPROVED. ENDRESS+HAUSER FMX21.	
LEVEL TRANSDUCER TERMINATION KIT WITH DESSICANT FILTER. PROVIDE 80' TRANSDUCE	R CABLE.
TANK ALARMING SYSTEM, OPEN CHASSIS. RACO ALARMAGENT	
TANK ALARMING POWER SUPPLY AND CABINET CABLE. RACO ALARMAGENT ACCESSORIE	S
NEMA 3R/4, PADLOCKABLE PANEL, PAINTED WHITE, WITH INTERNAL SWING AND BACK P	ANELS
125VAC, 20 AMP, DUPLEX RECEPTACLE AND BOX. HUBBELL 5362.	
120VAC CIRCUIT BREAKERS. ALLEN BRADLEY 1489-M.	
DIGITAL DISPLAY WITH ANALOG INPUT AND OUTPUT AND RELAYS. KEP INT69PM2A2A.	
ENGRAVED PHENOLIC NAMEPLATE, WHITE WITH BLACK 1/2" LETTERS. INSCRIBE AS SHOW	′N