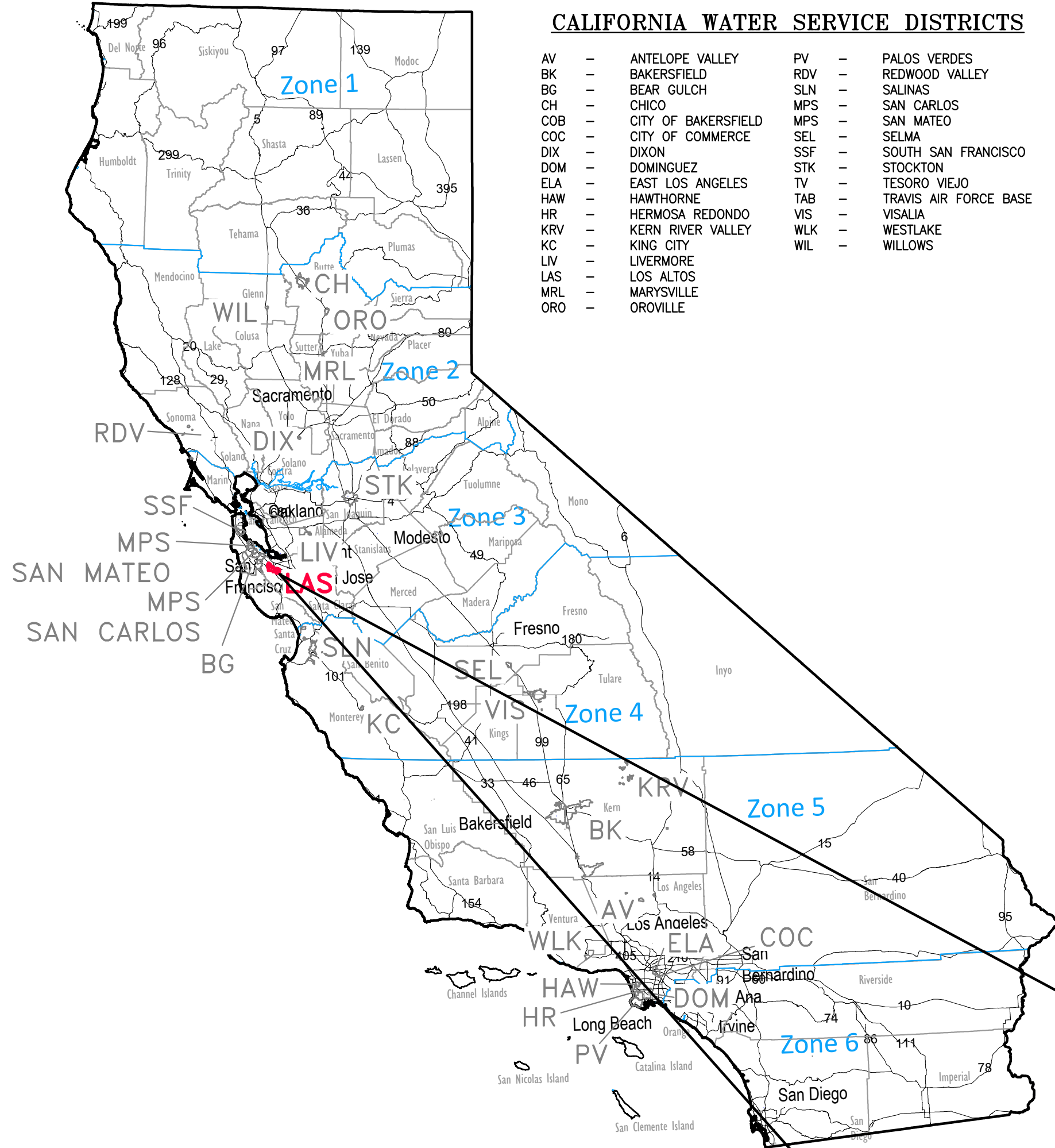


CALIFORNIA WATER SERVICE

NEW WELL & STEEL BOLTED TANK LOS ALTOS, STATION 020, 800 CARLISLE WAY SUNNYVALE, CALIFORNIA



CALIFORNIA WATER SERVICE DISTRICTS

AV	-	ANTELOPE VALLEY	PV	-	PALOS VERDES
BK	-	BAKERSFIELD	RDV	-	REDWOOD VALLEY
BG	-	BEAR GULCH	SLN	-	SALINAS
CH	-	CHICO	MPS	-	SAN CARLOS
COB	-	CITY OF BAKERSFIELD	MPS	-	SAN MATEO
COC	-	CITY OF COMMERCE	SEL	-	SELMA
DIX	-	DIXON	SSF	-	SOUTH SAN FRANCISCO
DOM	-	DOMINGUEZ	STK	-	STOCKTON
ELA	-	EAST LOS ANGELES	TV	-	TESORO VIEJO
HAW	-	HAWTHORNE	TAB	-	TRAVIS AIR FORCE BASE
HR	-	HERMOSA REDONDO	VIS	-	VISALIA
KRV	-	KERN RIVER VALLEY	WLK	-	WESTLAKE
KC	-	KING CITY	WIL	-	WILLOWS
LIV	-	LIVERMORE			
LAS	-	LOS ALTOS			
MRL	-	MARYSVILLE			
ORO	-	OROVILLE			

DRAWING INDEX

DWG NUMBER	SHEET	REV	DRAWING TITLE
LAS-3701-G-01	1 OF 18	F	TITLE SHEET, DRAWING INDEX & VICINITY MAP - CIVIL
LAS-3701-G-02	2 OF 14	D	OVERALL PROJECT SITE PLAN AND BILL OF MATERIALS
LAS-3701-G-03	3 OF 14	D	CIVIL GENERAL NOTES
LAS-3701-G-04	4 OF 14	C	CIVIL ABBREVIATIONS AND SYMBOLS
LAS-3702-D-01	5 OF 14	D	DEMOLITION PLAN
LAS-3703-C-01	6 OF 14	F	SITE PLAN
LAS-3703-C-02	7 OF 14	F	SITE ELEVATIONS
LAS-3703-C-03	8 OF 14	F	SITE ELEVATIONS
LAS-3703-C-04	9 OF 14	F	HORIZONTAL CONTROL PLAN & TABLE
LAS-3703-C-05	10 OF 14	F	TANK LOCATION PLAN
LAS-3703-C-06	11 OF 14	E	PLAN AND PROFILE 15% SD STA 0+50 TO 2+00
LAS-3703-C-07	12 OF 14	D	DETAILS - I
LAS-3703-C-08	13 OF 14	D	DETAILS - II
LAS-3703-C-09	14 OF 14	C	ACOUSTICAL PUMP SHELTER DETAILS
LAS-XXXX-L-01	15 OF 14	G	TREE REMOVAL PLAN
LAS-XXXX-L-02	16 OF 14	G	PROPOSED TREE PLAN
LAS-XXXX-L-03	17 OF 14	G	SITE ELEVATIONS
LAS-XXXX-L-04	18 OF 14	G	SITE ELEVATIONS

SCOPE OF WORK:

INSTALL:

- NEW WELL
- 56,000 GALLON STEEL-BOLTED TANK (WORKING VOLUME)
- BOOSTER PUMP WITH PUMP FOUNDATION, PIPING AND SHEET STEEL ACOUSTIC SHELTER
- ELECTRICAL PANELBOARD
- EMERGENCY BACKUP GENERATOR
- CALTRANS CLASS 2 AB MAINTENANCE AREA WITHIN PROPERTY BOUNDARY
- EMERGENCY LIGHT POST
- THREE (3) 8' x 8' CHEMICAL SHEDS

ABANDON:

- WELL BLOW-OFF DISCHARGE LINE
- VALVE CAN AND ANY UNDERGROUND FEATURES TO MIN 24" BELOW
- 8" AND 10" PIPES AND ASSOCIATED FITTINGS

TREE REMOVAL:

- REMOVE 10 TREE'S PER TREE REMOVAL PLAN, SHT L-01

PLANT TREE'S:

- PLANT 14 TREE'S PER PROPOSED TREE PLAN, SHT L-02

PROPERTY OWNER:

CALIFORNIA WATER SERVICE
1720 N. FIRST STREET
SAN JOSE, CA 95112

FIELD YARD ADDRESS

CALIFORNIA WATER SERVICE
DISTRICT OFFICE
1555 MIRAMONTE AVE
LOS ALTOS, CA 94024

SITE ADDRESS:

800 CARLISLE WAY
SUNNYVALE, CA 94087
SANTA CLARA COUNTY
APN: 309-12-013
ZONING: RESIDENTIAL

PROJECT ENGINEER:

LUIS ZAMUDIO
EMAIL: LZAMUDIO@CALWATER.COM
PHONE: (408) 367-8390 EX 78390

BASIS OF BEARINGS

BEARINGS SHOWN ON THIS MAP ARE REFERENCED TO THE FOUND MONUMENTS AT THE INTERSECTION OF CARLISLE WAY AND LILLIAN AVENUE AND CARLISLE WAY AND KINGFISHER WAY PER "TRACT NO. 3157 FAIRWOOD UNIT NO. 2" AS RECORDED IN BOOK 144 OF MAPS AT PAGE 33, RECORDS OF SANTA CLARA COUNTY. RECORD BEARING BEING N89°37'48"E. FIELD MEASUREMENT TAKEN BY GPS OBSERVATION OF BEARING BEING N89°18'53"W.

S.N.N.A. 3271:
NORTHING = 1996732.56' EASTING = 6148194.24'

S.N.N.A. 3226:
NORTHING = 1941490.09' EASTING = 6166245.33'

BENCH MARK

THE ELEVATIONS SHOWN HEREON ARE BASED UPON NGS POINT ID AA1871, ELEVATION 435.30 FEET (NAVD 88).

CITY OF SUNNYVALE
A CITY WELL MONUMENT LOCATED AT KINGFISHER WY & 107TH ST WEST
ELEVATION = 143.50'

SURVEY PERFORMED BY:

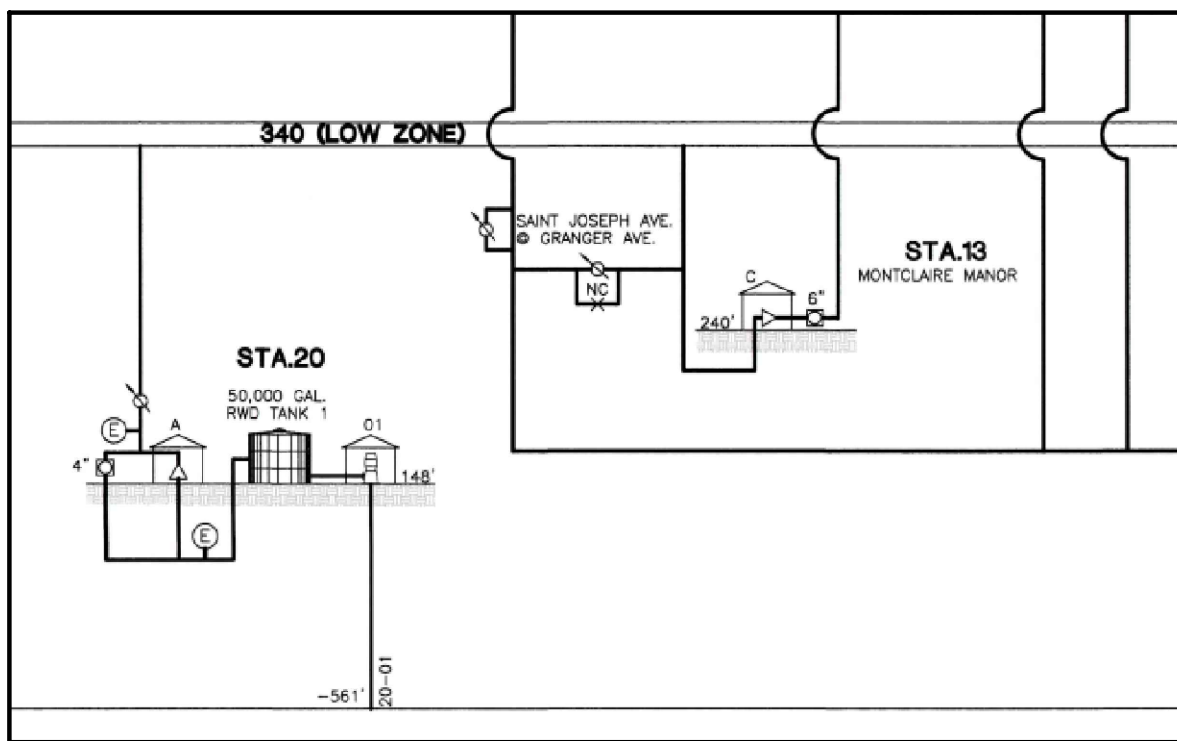
SURVEY COMPANY: BLAIR CHURCH & FLYNN
THEIR PROJECT NUMBER: 224-0252
DATE OF SURVEY: JULY 09, 2024

SURVEYOR'S NOTES

THE INFORMATION SHOWN HEREON WAS GATHERED BY A FIELD SURVEY PERFORMED BY BLAIR, CHURCH & FLYNN IN JUNE, 2024.
THIS TOPOGRAPHIC SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS) NAD83, ZONE 3.

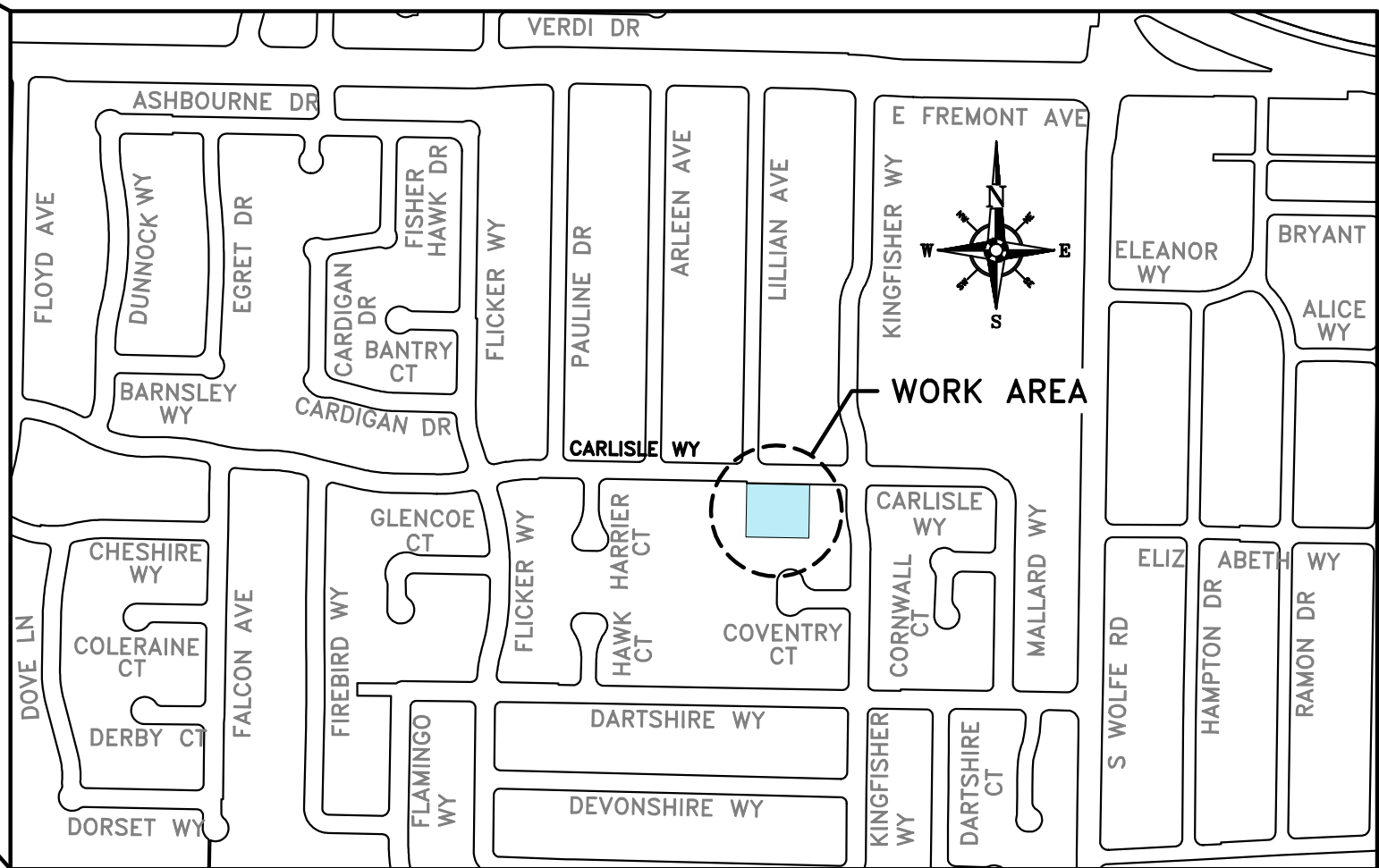
UTILITY STATEMENTS

THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



OPERATIONAL SCHEMATIC

N.T.S.



VICINITY MAP

N.T.S.



VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ENGINEERING



DEPARTMENT

REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS
04/30/2026 SKT LZ MK	04/30/2026 SKT LZ MK	04/30/2026 SKT LZ MK
08/27/2025 SKT LZ MK	08/27/2025 SKT LZ MK	08/27/2025 SKT LZ MK

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:
Y.N./S.K.

DESIGNED BY:
L. ZAMUDIO

TECH REVIEW: DATE: 01/06/25

CHECKED BY: DATE: 01/06/25

APPROVED BY: DATE: 01/06/25

01/06/25

01/06/25

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ENGINEERING



DEPARTMENT

REVISIONS	SK	WH	MC	04/30/2026
REVISED PER CITY COMMENTS				DC1 LZ MC
REVISED PER CITY COMMENTS				07/23/2022
REVISED TO INCLUDE ELEVATION				SK1 LZ MC
				05/12/2025

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:

Y.N./S.K.

DESIGNED BY:

L. ZAMUDIO

TECH REVIEW:

DATE:

01/06/25

CHECKED BY:

DATE:

01/06/25

APPROVED BY:

DATE:

01/06/25



TITLE: NEW WELL & STEEL BOLTED TANK
 LOS ALTOS, STATION 020, 800 CARLISLE WAY
 SUNNYVALE, CALIFORNIA
 OVERALL PROJECT SITE PLAN
 AND BILL OF MATERIALS

DISTRICT:

LOS ALTOS

111

PROJECT ID.:

00116020

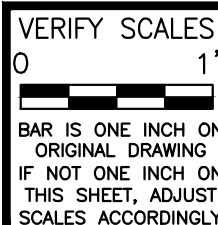
DRAWING NO.:

LAS-3701-G-02

SHT 2 OF 18



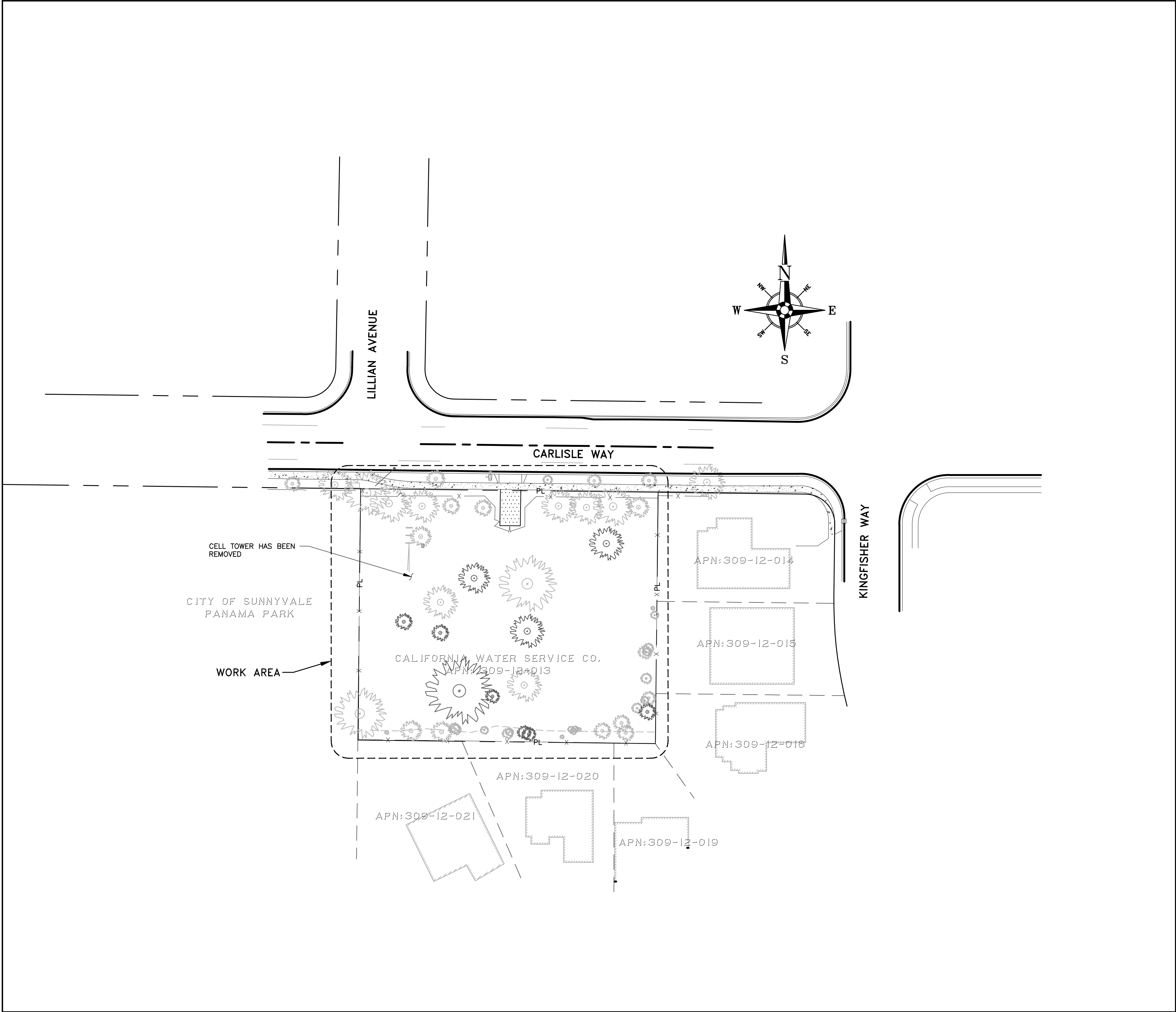
Know what's below.
 Call before you dig.



BILL OF MATERIALS	
QTY	DESCRIPTION
100 SF	CONCRETE DRIVEWAY PER STA SC-5
108 SF	CONCRETE SIDEWALK
1	STORM DRAIN MANHOLE
10	CONCRETE CURB AND GUTTER
46	ASPHALT CONCRETE PATCH
200	FOG SEAL
1	GENERATOR
1	PANELBOARD
1	8' X 8' PAX (CHEMICAL DOSING)
3	CHEMICAL SHEDS WITH CONCRETE PAD
136	8" DUCTILE IRON PIPE
145	15" SDR-26 PVC STORM DRAIN
2	3' X 3' STORM INLET
2	PORTABLE BOOSTER CONNECT (PBC) - WHARF HYDRANT
1	BOOSTER PUMP
1	4' X 6' VAULT
5	PLAN CAMPHOR TREE
5	TOYON TREES
4	PEPPERMINT TREES
336 SF	DRIVEWAY 2" AC / 4" AB
AS NEEDED	LINEGUARD TAPE
AS NEEDED	TRACER WIRE - #12 AWG STRANDED COPPER - THW INSULATED
AS NEEDED	METALGUARD #301 & BIT WRAP
AS NEEDED	POLYWRAP TUBING
AS NEEDED	PVC TAPE (100' ROLLS)

NOTES:

- THIS BILL OF MATERIALS IS A REFERENCE LIST ONLY - CONTRACTOR(S) TO VERIFY AND OBTAIN ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT.
- TIE-IN ALL EXISTING (LONG/SHORT) SERVICES TO PROPOSED NEW MAINS AFTER INSTALLATION AND TESTING IS COMPLETED PER CAL WATER STANDARDS.
- THIS LIST IS NOT COMPLETE. IT WILL BE COMPLETED FOR THE CONSTRUCTION PLAN SET USED FOR BLDG PERMIT.



OVERALL SITE PLAN

SCALE: NTS

GENERAL NOTES:

- CONTRACTOR SHALL BECOME FAMILIAR WITH PROJECT SURROUNDINGS, WORKING CONDITIONS, AND SITE LIMITATIONS AND SHALL INCLUDE ALLOWANCES IN THEIR BID TO COVER ANY PROJECT CONSTRAINTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO AND COMPLYING WITH LOCAL GOVERNING AGENCY PERMIT RESTRICTIONS, WHICH MAY AFFECT ALLOWABLE WORKING HOURS AND NOISE LEVELS.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY APPLICABLE LOCAL GOVERNING AGENCY AND SHALL SUBMIT A TRAFFIC CONTROL PLAN PER CALTRANS STANDARDS TO GOVERNING AGENCY (AS REQUIRED) PRIOR TO CONSTRUCTION.
- WORK REQUIRING TRAFFIC CONTROL SHALL BE CONDUCTED BETWEEN THE HOURS OF 8:30 A.M. AND 5:30 P.M. MONDAY THRU FRIDAY, OR AS OTHERWISE AUTHORIZED BY LOCAL GOVERNING AGENCY REPRESENTATIVE.
- CONTRACTOR SHALL APPLY NPDES BEST MANAGEMENT PRACTICES TO PREVENT CHLORINATED WATER AND SEDIMENT FROM ENTERING NAVIGABLE WATERWAYS. CONTRACTOR TO SUBMIT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), INCLUDING DUST CONTROL, TO OWNER FOR APPROVAL WITHIN 5 WORKING DAYS OF AWARD OF CONTRACT AND PRIOR TO ANY SOIL DISTURBANCE. SEE SPECIFICATIONS FOR DETAILS.
- CONTRACTOR TO CONTACT "UNDERGROUND SERVICE ALERT" 48 HOURS PRIOR TO ANY EXCAVATION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES.
- TRENCHES TO BE SHORED IN ACCORDANCE WITH CALIFORNIA OSHA REGULATIONS.
- PLACE A CONTINUOUS WIRE AND STRIP OF DETECTOR TAPE OVER ALL PIPES AND EXTEND UP INTO ALL VALVE BOXES. TRACER WIRE IS REQUIRED ON ALL PIPE. (SEE DWG. CW-850).
- SEE DWG. CW-435 FOR TYPICAL THRUST BLOCK INSTALLATION.
- FACILITIES SEPARATION:
 - WATER MAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM AND ONE FOOT VERTICALLY ABOVE ANY PIPELINE CONVEYING SEWAGE (UNTREATED, PRIMARY, OR SECONDARY), DISINFECTED SECONDARY RECYCLED WATER, OR HAZARDOUS FLUIDS.
 - WATER MAIN SHALL BE INSTALLED 4 FEET HORIZONTALLY FROM AND ONE FOOT VERTICALLY ABOVE ANY PIPELINE CONVEYING TERTIARY RECYCLED WATER OR STORM DRAINAGE.
 - AT CROSSINGS, WATER MAIN SHALL BE CONSTRUCTED NO LESS THAN 45 DEGREES TO AND AT LEAST ONE FOOT VERTICALLY ABOVE ANY PIPELINES INDICATED IN 11.A AND 11.B.
 - NO CONNECTION JOINTS SHALL BE MADE IN THE WATER MAIN WITHIN EIGHT HORIZONTAL FEET OF CROSSING OF ANY PIPELINES INDICATED IN 11.A AND 11.B (OR 10 FEET IF CROSSING UNDER).
 - WATER MAIN SHALL NOT BE INSTALLED WITHIN 100 HORIZONTAL FEET OF ANY SANITARY LANDFILL, WASTEWATER DISPOSAL POND, OR HAZARDOUS WASTE DISPOSAL SITE.
 - WATER MAIN SHALL NOT BE INSTALLED WITHIN 25 HORIZONTAL FEET OF ANY CESSPOOL, SEPTIC TANK, SEWAGE TREATMENT BASIN, SEEPAGE PIT, UNDERGROUND HAZARDOUS MATERIAL STORAGE TANK, OR GROUNDWATER RECHARGE PROJECT SITE.
 - ALL SEPARATION DISTANCES ARE BASED FROM EDGE TO EDGE OF PIPES.
 - PROPOSED MAIN SHALL BE INSTALLED ABOVE EXISTING HOUSE SEWER LATERALS. IF BELOW FOLLOW NOTE 11D.
- WHEN ASSEMBLING A PVC C-900 PIPE TO AN IRON FITTING (PUSH-ON OR MECHANICAL JOINT), REMOVE ALL BUT 1/4 INCH OF THE FACTORY-MADE BEVEL FROM THE SPIGOT END OF THE PIPE PRIOR TO INSTALLATION.
- PVC ±1 DEGREE AND ±5 DEGREES HIGH DEFLECTION CPLOS TO ACHIEVE PROPER RADIUS FOR CURVES. DO NOT DEFLECT PIPE AT FITTINGS.
- VALVE CANS AND COVERS SHALL BE PLACED OVER ALL VALVES. COVERS SHALL BE SET TO EXISTING FINISHED GRADE AND RESET IF NECESSARY ONCE THE STREET IS AT FINAL GRADE. (SEE DWGS. CW-14-R6 & CW-439-R6).
- NO VALVE COVERS ARE TO LIE IN SIDEWALKS, CROSS GUTTER, CURB OR DRIVEWAYS. EACH SERVICE SHOULD ALSO BE LOCATED TO PROVIDE PROTECTION TO THE METER BOX FROM VEHICLE TRAFFIC AND PARKING.
- PROTECT UNDERGROUND FLEXIBLE COUPLINGS, BARE STEEL, MJ x MJ SLEEVES, AND ALL BOLTS (INCLUDING STAINLESS STEEL) AS FOLLOWS:
 - THE ENTIRE AREA OF THE FITTING MUST BE DRY AND FREE OF DUST, DIRT, AND OTHER FOREIGN MATTER. RUST OR OTHER FOREIGN MATTER MUST BE REMOVED BY SCRAPING OR WIRE BRUSHING. WIPING WITH A DRY CLEAN CLOTH MAY BE NECESSARY TO REMOVE THE PARTICLES FROM BRUSH CLEANING. ANY OIL OR GREASE MUST BE REMOVED BY USING A LOW RESIDUE, VOLATILE PETROLEUM SOLVENT BEFORE APPLICATION OF GREASE AND WRAPPING.
 - THE EXPOSED AREA SHOULD BE COATED WITH A HEAVY COATING OF METAL COATING OF METALGUARD 301 GREASE BY THE GLOVE METHOD TO A THICKNESS OF AT LEAST 1/4 INCH.
 - FIRMLY WRAP THE ENTIRE GREASE AREA WITH ONE LAYER, HALF-LAPPED, OF A WOVEN GLASS FILAMENT MESH (RES OR BIT WRAP, 4" (FOUR INCHES) WIDE).
 - APPLY A SECOND LAYER OF METALGUARD 301 GREASE ON TOP OF THE GLASS FILAMENT BY THE GLOVE METHOD TO A THICKNESS OF AT LEAST 1/4 INCH.
 - FIRMLY WRAP THE ENTIRE GREASE AREA WITH A SECOND LAYER, HALF-LAPPED, OF THE WOVEN GLASS FILAMENT MESH.
 - COVER THE ENTIRE MESH WRAPPED AREA OF THE FITTING WITH A THIRD AND FINAL COATING AT LEAST 1/4 INCH THICK OF METALGUARD 301 GREASE BY THE GLOVE METHOD.
 - FIRMLY APPLY 2 LAYERS OF POLYWRAP, HALF-LAPPED, OVER ALL AREAS OF THE COATED AND WRAPPED FITTING. BACKFILLING MAY FOLLOW IMMEDIATELY AFTER THIS WRAPPING.
- TRENCH BACKFILL AND PAVING SHALL CONFORM TO TRENCH SECTION DETAILS AND ALL GOVERNING AGENCY REQUIREMENTS.
- NEW PIPELINE SHALL BE INSTALLED WITH 4' (FOUR FEET) OF COVER, EXCEPT WHERE SPECIFIED OTHERWISE.
- CONTRACTOR SHALL LIMIT DAILY TRENCHING OPERATIONS TO THE LENGTH OF PIPE THAT CAN BE INSTALLED AND BACKFILLED THAT DAY. RESTORE TRAFFIC LANES AT THE END OF EACH WORKDAY.
- CONTRACTOR SHALL INSTALL NEW MAIN AND ADJUST FROM NOMINAL LINE AND GRADE TO MATCH THE EXISTING FACILITIES AT ALL LOCATIONS. THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP, BLOWOFF AND BACKFLOW DEVICE AT TIE-IN LOCATIONS FOR TESTING (SEE DWGS. CW-122 & CW-638). CONTRACTOR WILL TIE THE NEW MAIN FROM THIS LOCATION.
- THE NEW PIPELINE SHALL BE TESTED AT 150 PSI FOR A PERIOD OF 4 HOURS. SEE SPECIFICATIONS TO DETERMINE EXACT TESTING REQUIREMENTS.
- TIE-INS TO BE MADE AT A TIME THAT IS CONVENIENT TO CALIFORNIA WATER SERVICE COMPANY AND IN COMPLIANCE WITH THE LOCAL GOVERNING AGENCY PERMIT GUIDELINES. THE ADDITIONAL COST DUE TO OVERTIME PAY

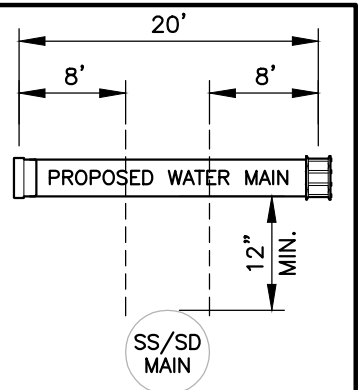
- SHALL BE AT CALIFORNIA WATER SERVICE COMPANY'S EXPENSE.
- CONTRACTOR SHALL PROVIDE MISC. MATERIAL REQUIRED TO COMPLETE THE TIE-IN SUCH AS, BUT NOT LIMITED TO: PROTECTION COATING MATERIAL FOR PIPE AND FITTINGS, LINGUARD TAPE, CONCRETE FOR THRUST BLOCKS, EMBEDDED BACKFILL AROUND AND OVER THE PIPE, FINAL BACKFILL TO MEET COMPACTION REQUIREMENTS, AND PAVEMENT REPLACEMENT.
 - CONTRACTOR SHALL BE RESPONSIBLE TO ABANDON ALL PIPE ENDS BY PLUGGING WITH BRICK AND MORTAR. ABANDON ALL GATE VALVES BY REMOVING COVER, CUT CASING DOWN TO SUBGRADE, AND BACKFILL VALVE CASING WITH CONCRETE SLURRY TO REMOVE VOIDS. REPLACE BASE ROCK AND PERMANENT PAVEMENT AS NECESSARY. WHEN REMOVING EXISTING FITTINGS, CONTRACTOR SHALL ALSO REMOVE EXISTING CONCRETE THRUST BLOCK.
 - SPOILS SHALL NOT REMAIN ON-SITE. DISPOSAL OF ALL PROJECT-GENERATED SPOILS SHALL BE AT A FACILITY LICENSED AND CLASSIFIED TO ACCEPT THE MATERIALS. CONTRACTOR TO PROVIDE OWNER WITH A FORMAL RECEIPT FROM THE ACCEPTING FACILITY. ALL MATERIALS THAT WILL REQUIRE TESTING PRIOR TO DISPOSAL SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISPOSAL FACILITY IN ADVANCE OF THE NEED FOR DISPOSAL.
 - THE LIST OF MATERIALS FOR THIS PROJECT IS FOR CALIFORNIA WATER SERVICE COMPANY ESTIMATING AND REFERENCE PURPOSES ONLY, AND IS NOT INTENDED AS A FULL TAKE-OFF OF ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT PER CALIFORNIA WATER SERVICE COMPANY STANDARD SPECIFICATIONS.
 - AT TIE-INS, CONTRACTOR SHALL SPRAY OR SWAB ALL FITTINGS WITH CHLORINE SOLUTION FOR DISINFECTION PRIOR TO FINAL CONNECTIONS.
 - CONTRACTOR TO ENSURE AIR IN THE PIPELINE IS REMOVED USING EXISTING OUTLETS SUCH AS FIRE HYDRANTS AND BLOW-OFF. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AIR RELEASES IF EXISTING OUTLETS ARE INSUFFICIENT.
 - ALL WORK SHALL COMPLY WITH CAL WATER SPECIFICATIONS FOR MATERIALS, INSTALLATION, DISINFECTION AND DE-CHLORINATION PER LATEST REVISION OF DRAWING CW-863R8.
 - CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL SURVEYING AND STAKING REQUIRED TO INSTALL THE PIPELINE/EQUIPMENT AT THE LINE AND GRADE ESTABLISHED IN THE PROJECT PLANS.
 - REMOVAL AND PROPER DISPOSAL OF MATERIAL SHALL COMPLY WITH CURRENT FEDERAL AND STATE REGULATIONS. CONTRACTOR SHALL TAKE PRECAUTIONS FOR WORKER SAFETY AND ENSURE PROPER LEGAL DISPOSAL OF ALL MATERIALS OFF-SITE.
 - CONTRACTOR SHALL PREPARE AND MAINTAIN A COMPLETE SET OF RECORD DRAWINGS (AS-BUILTS) AND MUST SHOW ALL FIELD CHANGES AND WORK PERFORMED IN ITS ENTIRETY. CONTRACTOR SHALL MARK THE AS-BUILTS TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES FROM THE PLANS, AS ORIGINALLY SHOWN. SUITABILITY OF AS-BUILTS WILL BE DETERMINED BY THE ENGINEER AT THE COMPLETION OF THE PROJECT.
 -  = INDICATED FIRE HYDRANT (DISTRICT)

NOTE:

- USE SOLID STICK OF PIPE CENTERED.
- NO CONNECTION JOINTS SHALL BE MADE IN THE WATER MAIN WITHIN EIGHT HORIZONTAL FEET (8') OF THE CROSSING.
- MINIMUM ONE FOOT (1') VERTICAL SEPARATION BETWEEN BOTTOM OF MAIN AND TOP OF SEWER.

TYP. SEWER & STORM DRAIN CROSSINGS

N.T.S.



INSTALL AND MATERIAL – CIVIL:

- "GEOTECHNICAL INVESTIGATION REPORT" PENDING.
- ELEVATIONS PRESENTED ON THE DRAWINGS INDICATE FINAL GRADE ELEVATIONS. FINAL GRADED SURFACE SHALL BE SLOPED UNIFORMLY BETWEEN SUCH POINTS AND NATURAL GRADE.
- ALL DEBRIS, VEGETATION, ROCK AND LUMPS GREATER THAN 12 INCHES IN ITS LARGEST DIMENSIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE COLLECTED, PILED AND DISPOSED OF BY THE CONTRACTOR SO AS TO LEAVE THE AREAS THAT HAVE BEEN CLEARED WITH A NEAT AND FINISHED APPEARANCE.
- ALL EXCAVATIONS SHALL BE PERFORMED IN A MANNER TO ASSURE DRAINAGE DURING THE COURSE OF THE WORK. FLOODED EXCAVATIONS SHALL BE DETERMINED AND ALL MUCK REMOVED BEFORE PROCEEDING WITH THE WORK.
- AFTER EXCAVATION, SCARIFY THE ENTIRE AREA EXPOSED TO A 6-INCH DEPTH, MOISTURE CONDITION IF NECESSARY, AND COMPACT TO A MINIMUM OF 90% OF MAXIMUM DRY DENSITY WITHIN 2%± OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
- OVER-EXCAVATE EXISTING SOIL IN LOCATIONS WHERE UNSUITABLE MATERIAL EXISTS AS DIRECTED BY THE COMPANY REPRESENTATIVE AND SOIL ENGINEER. BACKFILL WITH ENGINEERED FILL COMPACTED TO A MINIMUM 90% OF MAXIMUM DRY DENSITY WITHIN 2%± OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
- SOILS ENGINEER SHALL INSPECT THE BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF BACKFILL. FINAL DEPTH OF EXCAVATION TO BE DETERMINED BY SOILS ENGINEER. CIVIL ENGINEER SHALL INSPECT SITE AT COMPLETION OF ALL GRADING ACTIVITIES.
- PRIOR TO AN AREA RECEIVING FILL, THE AREA SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES, MOISTURE CONDITIONED IF NECESSARY, AND COMPACTED TO A MINIMUM 90% OF MAXIMUM DRY DENSITY WITHIN 2%± OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
- ALL IMPORTED FILL MATERIAL SHALL BE APPROVED BY THE SOIL ENGINEER PRIOR TO PLACEMENT AT THE SITE.
- PLACE FILL SOIL IN CONTINUOUS HORIZONTAL LOOSE LIFTS APPROXIMATELY 6 INCHES IN THICKNESS. DO NOT PLACE FILL UNTIL REMOVAL OF UNSUITABLE MATERIAL HAS BEEN INSPECTED AND APPROVED BY THE SOIL ENGINEER.
- FILL SHALL BE COMPACTED TO A MINIMUM 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. MOISTURE CONTENT OF COMPACTED FILL SHALL BE WITHIN 2%± OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
- SOIL USED FOR COMPACTED FILL SHALL CONTAIN NO ROCK OR HARD LUMPS GREATER THAN 12 INCHES IN ITS LARGEST DIMENSION. NO ORGANIC, PERISHABLE, SPONGY OR OTHER IMPROPER MATERIAL SHALL BE USED IN FILLING.
- FIELD DENSITY SHALL BE DETERMINED BY ASTM D-1556, ASTM D-2937 OR ASTM D-2922. THE METHOD USED SHALL BE IDENTIFIED IN THE COMPACTION REPORT. THE MINIMUM NUMBER OF DENSITY TEST SHALL BE ONE FOR EVERY 500 CUBIC YARDS OF ENGINEERED FILL PLACED.
- WHERE EXISTING SLOPES ARE STEEPER THAN 4 HORIZONTAL:1 VERTICAL AND THE HEIGHT IS GREATER THAN 5 FEET, THE SURFACE SHALL BE PREPARED FILL BY BENCHING INTO COMPETENT MATERIAL AS DETERMINED BY THE SOILS ENGINEER.
- NO FINAL SLOPE SHALL EXCEED 2 HORIZONTAL: 1 VERTICAL IN STEEPNESS UNLESS OTHERWISE NOTED.
- TOLERANCES FROM FINAL GRADE SHALL BE ±0.1 FOOT. IN NO CASE HOWEVER SHOULD FINAL GRADE ALLOW PONDING OR DRAINAGE NOT INDICATED ON THE PLANS.
- CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES, WHICH CONSIST OF WATER SPRAYING ALL GRADED AREAS AND ROADWAYS, TO ALLEViate OR PREVENT DUST NUISANCE.
- WHERE REQUIRED, CONTRACTOR SHALL PROVIDE SUFFICIENT EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, INSTALLATION OF ENERGY DISSIPATING RIP-RAP, SILT FENCING AND/OR HAY BALES.
- INCAVATION AREAS IMMEDIATELY ADJACENT TO EXISTING FOUNDATIONS WHERE VERTICAL CUT SIDE SLOPES ARE REQUIRED-EXCAVATION WIDTH SHALL NOT EXCEED 7'. THESE AREAS SHALL BE BACKFILLED AS SOON AS POSSIBLE TO MINIMIZE EXPOSURE OF THE EXISTING FOUNDATION(S). IF THESE AREAS ARE LEFT UNATTENDED AT ANY POINT DURING THE EXCAVATION OR BACKFILL THE AREA SHALL BE CORDONED OFF WITH CAUTION TAPE AND BARRICADES TO PREVENT UNAUTHORIZED ACCESS.
- CIVIL ENGINEER SHALL INSPECT SITE AT COMPLETION OF ALL GRADING ACTIVITIES.
- ALL STORMWATER TO BE RETAINED ON SITE DURING CONSTRUCTION.

EXTERIOR ABOVE GROUND PIPE MATERIAL OPTIONS:

- ENGINEER TO SPECIFY PIPE MATERIAL ON PLANS:
 - DUCTILE IRON PIPE (DIP) CLASS 350, AWWA C150, C151, AND C110 WITH ASPHALTIC FREE SURFACE.
 - WELDED STEEL PIPE (WSP) PER AWWA C200, C206, AND C208. SCHEDULE PER CWS-579.
- PIPING COATING AND LINING TO BE PER SECTION 09900 PAINTING, SECTION 09 90 05 P3 ASPS: NEW AND EXISTING STEEL STRUCTURAL ELEMENTS, PIPING AND PLANT EQUIPMENT COATING – EXTERIOR ENVIRONMENT, AND SECTION 09 97 81 FUSION BONDED EPOXY LINING.

SITE AND GRADING NOTES:

- C.W.S. STATION IS LOCATED AT 800 CARLISLE WAY, SUNNYVALE, CA 94087, APN 309-12-013
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO AND COMPLYING WITH LOCAL GOVERNING AGENCY PERMIT RESTRICTIONS, WHICH MAY AFFECT ALLOWABLE WORKING HOURS AND NOISE LEVELS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH PROJECT SURROUNDINGS, WORKING CONDITIONS, AND SITE LIMITATIONS AND WILL INCLUDE ALLOWANCES IN THEIR BID TO COVER ANY PROJECT CONSTRAINTS.
- CONTRACTOR SHALL APPLY CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) BEST MANAGEMENT PRACTICES TO PREVENT WATER AND SEDIMENT FROM ENTERING NAVIGABLE WATERWAYS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND INSTALLING THE APPLICABLE AND APPROPRIATE BMP'S IDENTIFIED IN THE CASQA – STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK AVAILABLE ONLINE AT WWW.CASQAPHANDBOOKS.COM. SOME OF THE REQUIRED PRACTICES MAY OR MAY NOT BE SHOWN ON THIS SITE PLAN. SEE NOTES 15 AND 16.
- CONTRACTOR TO CONTACT "UNDERGROUND SERVICES ALERT" 48 HOURS PRIOR TO ANY EXCAVATION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES.
- THE LIST OF MATERIALS FOR THIS PROJECT IS FOR REFERENCE PURPOSES ONLY, AND IS NOT INTENDED AS A FULL TAKE-OFF OF ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT AS PER CWS STANDARD SPECIFICATIONS.
- ASPHALT CONCRETE TO BE TYPE III, CLASS C2, GRADE PG 64-10 PER PWSI (PUBLIC WORKS STANDARDS, INC.) STANDARD SPECIFICATIONS (THE "GREENBOOK"). PLACE ASPHALT ON CL 2 AGGREGATE BASE (AB) COMPACTED TO 95% RELATIVE COMPACTION.
- THERE SHALL BE MINIMUM OF 8" (EIGHT INCHES) OF CLASS 2 AGGREGATE BASE (AB) UNDER ANY PROPOSED FOUNDATION OR PAVEMENT COMPACTED TO 95% RELATIVE COMPACTION. REQUIREMENT IS SUPERSEDED BY THE RECOMMENDATIONS OUTLINED IN THE PROJECT SPECIFIC GEOTECHNICAL REPORT, IF AVAILABLE.
- MAINTENANCE AREA, AS SPECIFIED ON PLANS SHALL BE GRADED TO 4" BELOW PROPOSED FINAL ELEVATIONS AND THEN SCARIFIED, WATERED AND COMPACTED TO 85% RELATIVE COMPACTION PER ASTM D1557. PLACE 4" OF CLASS 2 A.B. COMPACTED TO 90% RELATIVE COMPACTION.
- CONTRACTOR SHALL GRADE THE SITE TO FINAL ELEVATIONS SHOWN FOR PROPER SURFACE DRAINAGE. FINAL GRADING SHALL ALLOW SURFACE DRAINAGE TO AVOID DRAINAGE TO THE ADJACENT PROPERTIES. FINAL GRADES MAY BE ADJUSTED AS NEEDED IN THE FIELD TO BALANCE CUTS AND FILLS.
- IMPORT FILL:
 - IMPORTED FILL MATERIAL FOR BUILDING AND DRIVEWAY SHALL CONSIST OF ESSENTIALLY GRANULAR, SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, WEEDS, ROCKS, DEBRIS AND SOLUBLE SULFATES IN EXCESS OF 1,000 PARTS PER MILLION. IMPORT SOIL SHALL MEET THE FOLLOWING CRITERIA:

MAXIMUM % PASSING #200 SIEVE	50
MAXIMUM LIQUID LIMIT	14
MINIMUM R-V-VALUE	50
MAXIMUM EXPANSION PRESSURE	10 PSF

(TEST METHOD: CALIFORNIA TEST 301)
 - IMPORT FILL FOR REMAINING PORTION OF SITE SHALL BE SANDY LOAM SUITABLE FOR PLANTING.
 - IMPORTED FILL SHOULD BE FREE OF ORGANIC MATERIAL AND IT SHOULD CONTAIN NO MATERIAL LARGER THAN 4" (FOUR INCHES) AND HAVE A PLASTICITY INDEX OF LESS THAN 16.
- THE EXCAVATED ON-SITE MATERIAL IS SUITABLE AS COMPACTED FILL PROVIDED IT IS FREE OF ORGANIC MATTER AND MATERIAL LARGER THAN 4 INCHES IN DIAMETER.
- FILL SHOULD BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, MOISTURE CONDITIONED TO AT LEAST OPTIMUM CONTENT, AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION BENEATH ALL STRUCTURES, AND 90% RELATIVE COMPACTION ELSEWHERE. A SITE SPECIFIC GEOTECHNICAL REPORT, IF AVAILABLE SHALL OVERRIDE/AMEND SUCH REQUIREMENTS.
- CONSTRUCTION OPERATIONS DUST SHALL BE CONTROLLED. WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAW CUTTING, CONCRETE WORK ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGES TO THE STORM DRAIN SYSTEM AND THE EXISTING SUMP, IF NECESSARY PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTIONS. MATERIALS THAT COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNATED TO PREVENT EXPOSURE TO RAINFALL AND TO NOT ALLOW STORM WATER TO RUN ONTO THE AREA.
- PAVEMENT CLEANING-FLUSHING OF STREETS/PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRED CLEANING SHOULD BE SWEEP.
- SPOILS SHALL NOT REMAIN ON-SITE. DISPOSAL OF ALL PROJECT GENERATED SPOILS SHALL BE AT A FACILITY LICENSED AND CLASSIFIED TO ACCEPT THE MATERIALS. CONTRACTOR TO PROVIDE OWNER WITH A FORMAL RECEIPT FROM THE ACCEPTING FACILITY. ALL MATERIALS THAT WILL REQUIRE TESTING PRIOR TO DISPOSAL SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISPOSAL FACILITY IN ADVANCE OF THE NEED FOR DISPOSAL.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 2022 C.B.C., 2022 C.F.C., AND MOST CURRENT NFPA AND NEC AWWA E101 & C600.
- SITE CONTRACTOR MUST SHARE THE SITE WITH OWNER'S OTHER CONTRACTORS.

EROSION CONTROL:

- EROSION AND SEDIMENTATION CONTROL SHALL BE CONTROLLED BY BERMS, PLANTING, RIPRAP AND OTHER METHODS. BMP'S SHALL BE UTILIZED DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE EROSION CONTROL PLAN.

FOUNDATION NOTES:

1. GENERAL

THE CONTRACTOR SHALL COMPARE THIS DRAWING WITH EXISTING CONDITIONS AT THE SITE, AND WITH ALL OTHER APPLICABLE DRAWINGS. HE SHALL VERIFY MEASUREMENTS OF ALL EXISTING FEATURES AFFECTING HIS WORK, AND SHALL REPORT ANY DISCREPANCIES TO THE CALIFORNIA WATER SERVICE COMPANY ENGINEER FOR CLARIFICATION AND ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS SHOWN ON THIS DRAWING WITH THE REQUIREMENTS OF EXISTING CONDITIONS AND ALL RELATED NEW EQUIPMENT.

FOUNDATION PREPARATION: AREAS TO RECEIVE FILL SHALL BE SCARIFIED TO A DEPTH OF 6" (SIX INCHES) AND WATERED TO PROVIDE A MOISTURE CONTENT COMMENSURATE WITH EFFICIENT DENSIFICATION, AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557. THERE SHALL BE A MINIMUM OF 8" CLASS 2 AGGREGATE BASE (AB) UNDER ANY PROPOSED FOUNDATION COMPACTED TO 95% MAXIMUM DRY DENSITY (MDD).

THE AGGREGATE BASE, FORMS AND SUBGRADE SHALL BE THOROUGHLY WETTED BEFORE PLACEMENT OF CONCRETE.

2. CONCRETE

ALL CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS OF AGE. MINIMUM CEMENT SHALL BE 5-1/2 SACKS PER CUBIC YARD. MAXIMUM SLUMP SHALL BE 3". UNLESS OTHERWISE NOTED, ALL EXPOSED HORIZONTAL AND VERTICAL EDGES AND CORNERS SHALL HAVE 3/4" x 3/4" CHAMFERS. ALL REINFORCING BARS, ANCHOR BOLTS, INSERTS, AND OTHER EMBEDDED HARDWARE SHALL BE ACCURATELY SET AND SECURELY HELD IN PLACE TO MAINTAIN POSITIONS DURING PLACEMENT OF CONCRETE. THE LEVEL BEARING AREA AT THE TOP OF THE FOUNDATION SHALL RECEIVE A HARD STEEL TROWEL FINISH, SMOOTH AND LEVEL. THE APRON SHALL HAVE A LIGHT BROOM FINISH.

CONCRETE PAD SHALL BE WATER CURED CONTINUOUSLY FOR 7 DAYS. UNLESS OTHERWISE NOTED.

NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.

CONCRETE INSPECTION TO BE PERFORMED BY OWNER'S REPRESENTATIVE.

3. REINFORCING STEEL

ALL BARS SHALL BE GRADE 40 DEFORMED BARS CONFORMING TO ASTM A615. REINFORCING BAR BENDS AND STANDARD HOOKS SHALL CONFORM TO ACI 318, LATEST EDITION. ALL BENDS SHALL BE STANDARD HOOKS UNLESS OTHERWISE SHOWN. BARS 20 FEET AND SHORTER IN LENGTH SHALL BE IN SINGLE LENGTH RUNS WITHOUT SPLICES. BARS LONGER THAN 20 FEET IN LENGTH SHALL BE IN SINGLE LENGTH RUNS OR MAY BE SPLICED WITH 48 BAR DIAMETER LAPS (2'-0" FOR #4 BARS). SPLICES IN ADJACENT BAR RUNS SHALL BE WELL STAGGERED.

4. REFERENCES

SEE CUMMINS POWER GENERATION DRAWING FOR REQUIRED STUB-UPS THROUGH THE FOUNDATION AND NOTE 2 ON THE SAME DRAWING FOR FUEL TANK MOUNTING INSTRUCTIONS.

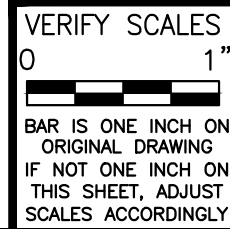
5. SPECIAL INSPECTION

SPECIAL INSPECTIONS MUST BE PERFORMED WHERE REQUIRED FOR CONCRETE AND ANCHOR BOLTS IN ACCORDANCE WITH SECTIONS 1705.3, 1705.6, ACI-318:17.8.2, AND ACI-318:17.8.2.4 OF THE 2022 CBC, WHEREBY SPECIAL INSPECTION IS DEFINED IN SECTION 1704.2 OF THE 2022 CBC.

SPECIAL NOTE

THE FOUNDATION MUST BE SQUARE, AND THE ANCHOR BOLTS MUST BE ACCURATELY PLACED PLUMB. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOUNDATION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANCHORING THE EQUIPMENT AND ENSURING PROPER POSITIONING OF THE ANCHOR BOLTS IN THE FOUNDATION.

NOT ALL NOTES WILL APPLY TO THIS PACKAGE



ENGINEERING



DEPARTMENT

REVISIONS	REVISD PER CITY COMMENTS		REVISD PER CITY COMMENTS		REVISD TO INCLUDE ELEVATION VIEWS	
	SK	WHI	WKC	SK	WHI	WKC
	04/30/2026	04/30/2026	04/30/2026	07/23/2026	07/23/2026	07/23/2026
	04/30/2026	04/30/2026	04/30/2026	07/23/2026	07/23/2026	07/23/2026

FLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:
Y.N./S.K.

DESIGNED BY:

L. ZAMUDIO

TECH REVIEW: DATE:

01/06/25

CHECKED BY: DATE:

01/06/25

APPROVED BY: DATE:

01/06/25

Mary E. Kean 01/06/25



TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
CIVIL GENERAL NOTES

DISTRICT:

LOS ALTOS

111

PROJECT ID.:

00116020

DRAWING NO.:

LAS-3701-G-03

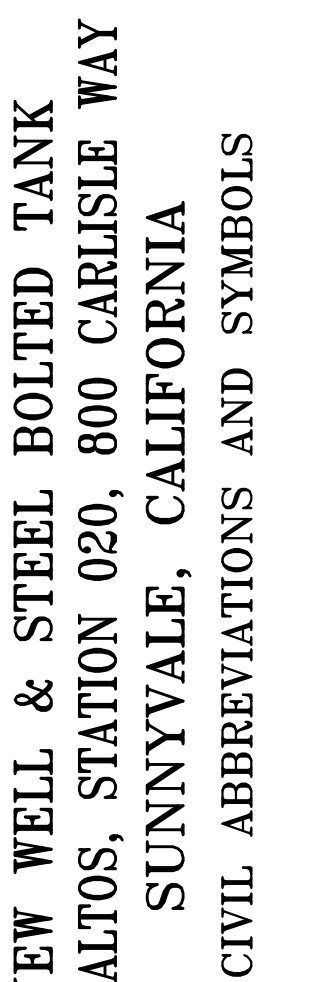
SHT 3 OF 18



AS SHOWN

DESIGNED BY:

May E. Kean 01/06,



DISTRICT:
LOS ALTOS

111

PROJECT ID.:

00116020

RAWING NO.:
AS 2701 C C

UNIT 4 OF 18

LINETYPE LEGEND

DETAIL NUMBER

DETAIL DESCRIPTION

C-04 INDICATES DRAWING ON WHICH DETAIL APPEARS*

PROPOSED

MONUMENT NOTES	
MON#	DESCRIPTION
MXXX	EXAMPLE ONLY
MXXX	EXAMPLE ONLY

SURVEY

	BENCHMARK
	TEMPORARY BENCH MARK
	DRAINAGE FLOW DIRECTION (1% SLOPE MIN.)
	EXISTING GRADE SPOT ELEVATION
	FINISH GRADE - PROPOSED W/DESCRIPTION
	HORIZONTAL CONTROL
	POTHOLE
	VERTICAL CONTROL

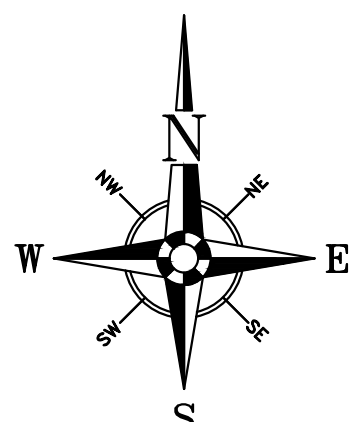
CONTROL POINTS

CP #	NORTHING	EASTING	ELEV	DESCRIPTION
CPXX	4271600.23	635627.01	30.25'	EXAMPLE ONLY
CPXX	4271568.98	635623.34	30.53'	EXAMPLE ONLY

MONUMENT NOTES

MON#	DESCRIPTION
MXXX	EXAMPLE ONLY
MXXX	EXAMPLE ONLY

CAL WATER BLOCKS

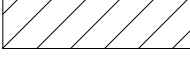
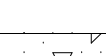
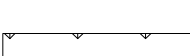
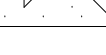


NORTH ARROW

REVISION DELTA SYMBOL

REVISION CLOUD (0.5" ARC LENGTH
IN PAPER SPACE SCALE. SCALE UP
ACCORDINGLY IF PLACED IN MODEL
SPACE)

HATCHES

	AGGREGATE BASE		(E) STRUCTURE
	ASPHALT OR SIDEWALK		GRAVEL
	CONCRETE		LANDSCAPING
	EARTH / DIRT (COMPACTED)		
	EARTH / DIRT (UNDISTURBED)		

USERNAME: Skaroglou 4/30/2026 3:44 PM
FILENAME: G:\Capital_Projects\CAD TEAM FILES\111_Los_Altos\00116020_Sta20_New_Well_Replacement\WP1_LAS-3701-G-04.dwg



REVISIONS	SK	WH	MC	DATE	COMMENTS
1	SK	WH	MC	04/25/2026	REVISED TO INCLUDE ELEVATION VIEWS
2	SK	WH	MC	05/12/2025	ISSUED FOR PERMIT

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:

Y.N./S.K.

DESIGNED BY:

L. ZAMUDIO

TECH REVIEW:

DATE:

01/06/25

CHECKED BY:

DATE:

01/06/25

APPROVED BY:

DATE:

01/06/25



TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
DEMOLITION PLAN

DISTRICT:

LOS ALTOS

111

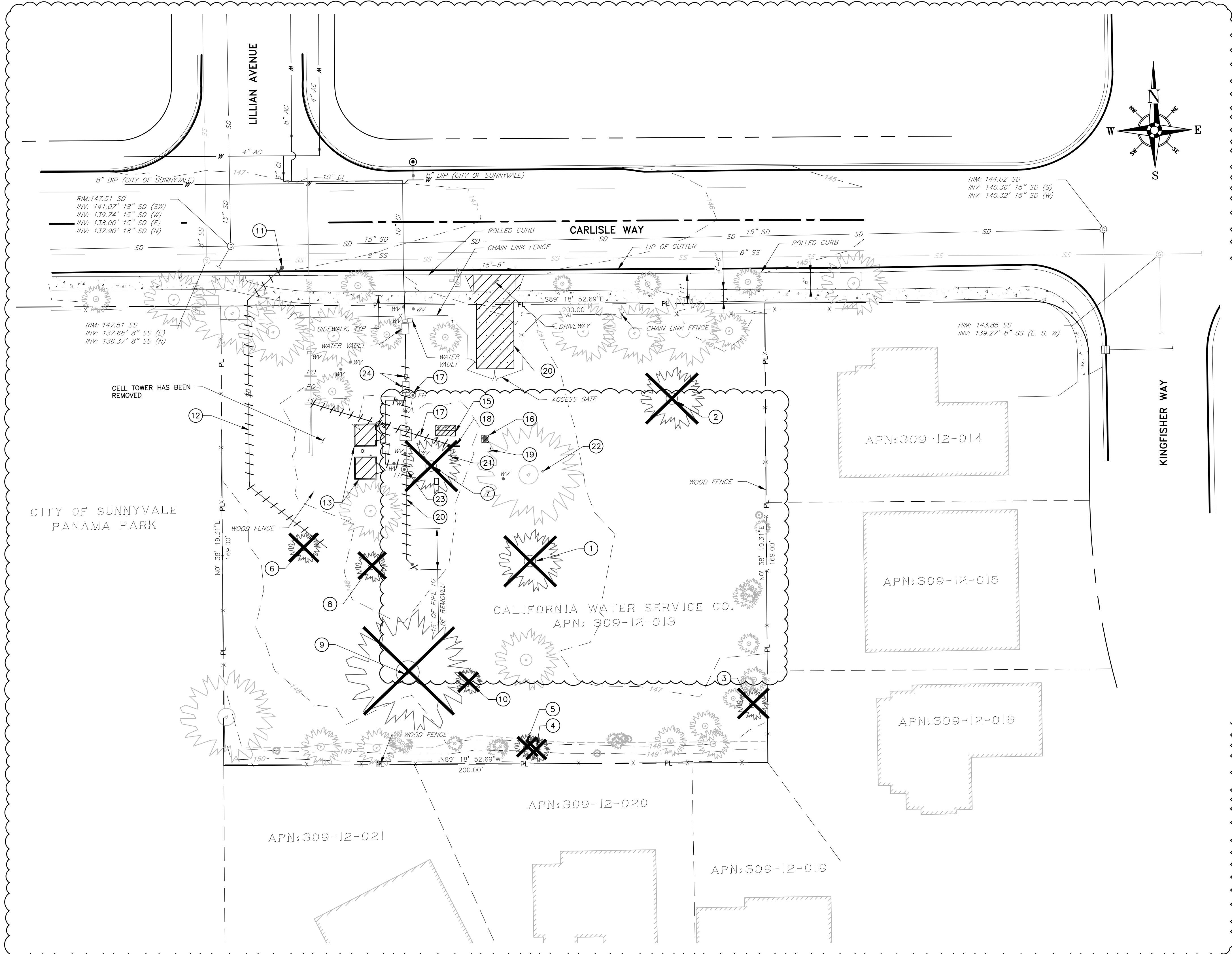
PROJECT ID:

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DRAWING NO.:

LAS-3702-D-01

SHT 5 OF 18

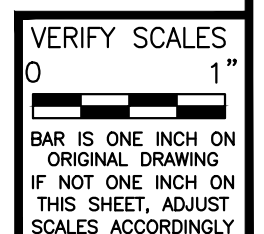


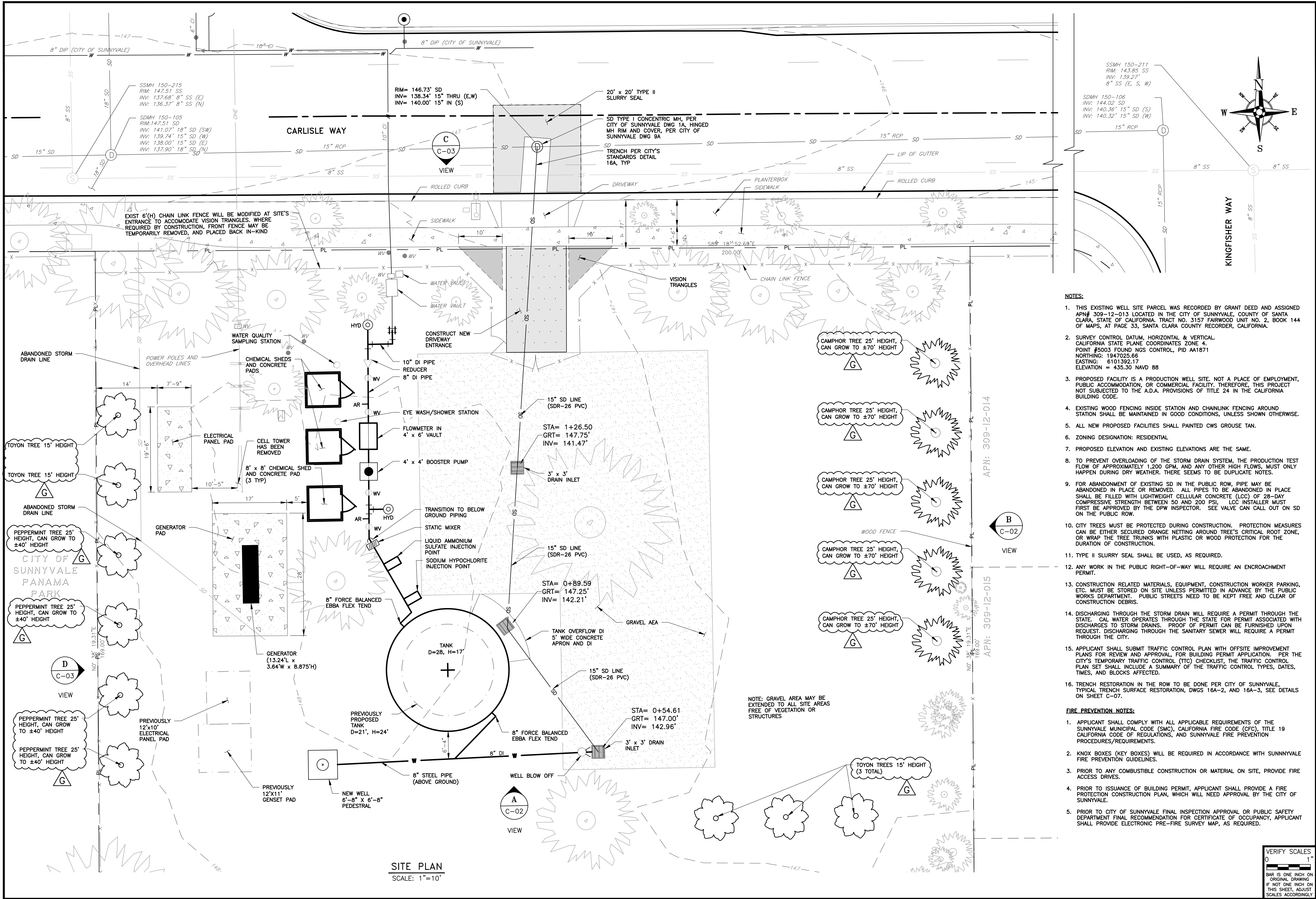
DEMOLITION NOTES:

- 1 EUCALYPTUS TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
- 2 PEPPER TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
- 3 OLIVE TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
- 4 SOUTHERN LIVE OAK TO BE REMOVED PER ARBORIST RECOMMENDATION
- 5 SOUTHERN LIVE OAK TO BE REMOVED
- 6 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
- 7 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
- 8 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
- 9 RED FLOWERING EUCALYPTUS TO BE REMOVED FOR CONSTRUCTION
- 10 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
- 11 REMOVE EXISTING VALVE CANS AND ANY UNDERGROUND FEATURES TO MIN 24" BELOW GRADE
- 12 ABANDON IN PLACE EXISTING STORM DRAIN PIPE
- 13 CHEMICAL BUILDINGS TO BE REMOVED
- 14 10" PIPE AND ASSOCIATED FITTINGS ABANDONED IN PLACE. ALL PIPES TO BE ABANDONED IN PLACE SHALL BE FILLED WITH LIGHTWEIGHT CELLULAR CONCRETE (LCC) OF 28-DAY COMPRESSIVE STRENGTH BETWEEN 50 AND 200 PSI. LCC INSTALLER MUST FIRST BE APPROVED BY THE DPW INSPECTOR
- 15 PANELBOARD AND CONCRETE BASE TO BE REMOVED
- 16 DESTROYED WELL (SHOWN FOR INFORMATION PURPOSE)
- 17 OVERHANG LINES BASE TO BE REMOVED
- 18 10" BRACE TO BE REMOVED
- 19 PANEL ON POSTS TO BE REMOVED
- 20 DRIVE ENTRANCE TO BE REMOVED
- 21 PANEL ON POSTS TO BE REMOVED
- 22 I-BEAM TO BE REMOVED
- 23 REMOVE EXISTING FIRE HYDRANT
- 24 REMOVE EXISTING VAULTS

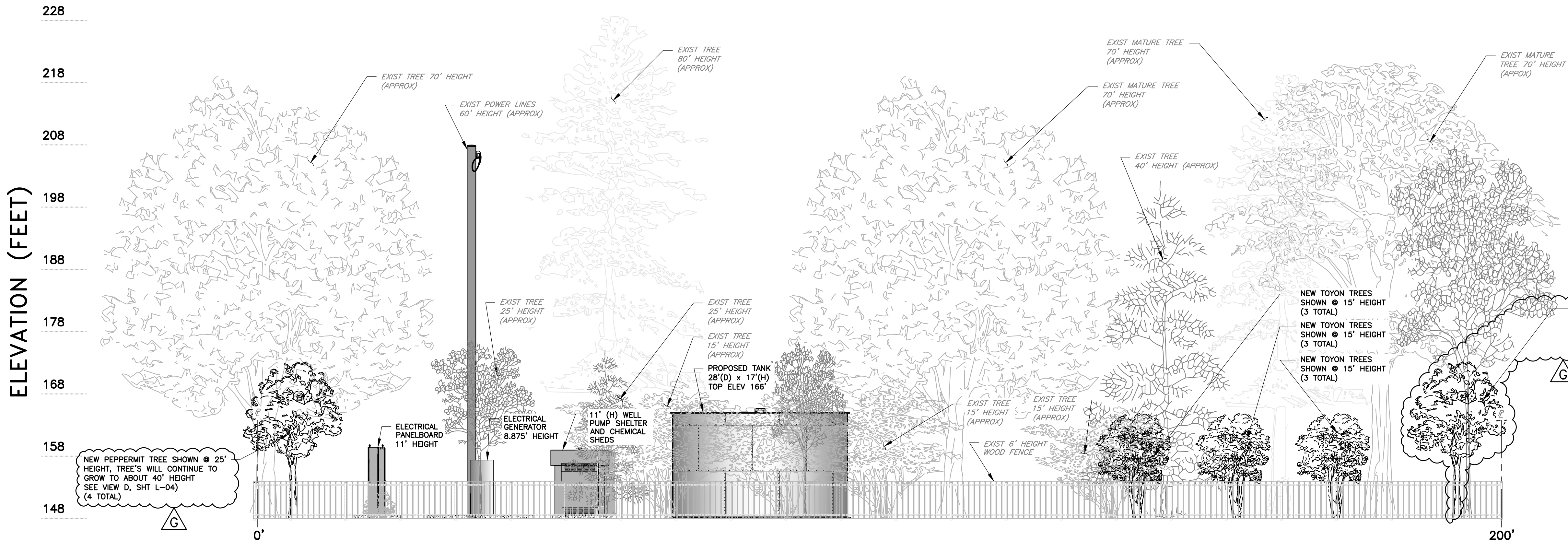
DEMOLITION PLAN

SCALE: 1"=20'

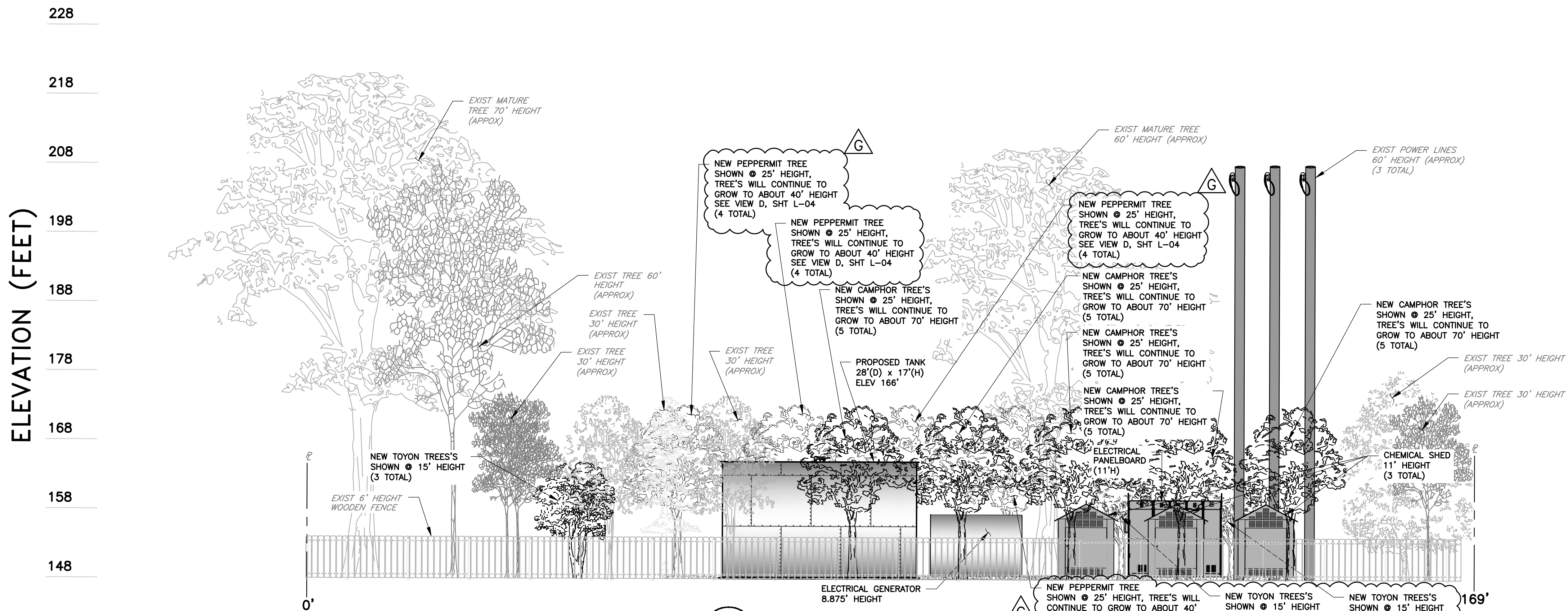




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83	04/30/2026	SK	83	04/30/2026	SK
84	04/30/2026	SK	84	04/30/2026	SK
85	04/30/2026	SK	85	04/30/2026	SK
86	04/30/2026	SK	86	04/30/2026	SK
87	04/30/2026	SK	87	04/30/2026	SK
88	04/30/2026	SK	88	04/30/2026	SK
89	04/30/2026	SK	89	04/30/2026	SK
90	04/30/2026	SK	90	04/30/2026	SK
91	04/30/2026	SK	91	04/30/2026	SK
92	04/30/2026	SK	92	04/30/2026	SK
93	04/30/2026	SK	93	04/30/2026	SK
94	04/30/2026	SK	94	04/30/2026	SK
95	04/30/2026	SK	95	04/30/2026	SK
96	04/30/2026	SK	96	04/30/2026	SK
97	04/30/2026	SK	97	04/30/2026	SK
98	04/30/2026	SK	98	04/30/2026	SK
99	04/30/2026	SK	99	04/30/2026	SK
100	04/30/2026	SK	100	04/30/2026	SK



VIEW **A** NORTH ELEVATION VIEW
SCALE: 1"=10'



VIEW **B** WEST ELEVATION VIEW
SCALE: 1"=10'

VERIFY SCALES
1"=10'
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



REVISIONS	SK	WH	MC	DATE	REVISED PER CITY COMMENTS
1	G			01/06/25	REVISED PER CITY COMMENTS
2	A			01/06/25	REVISED PER CITY COMMENTS
3	B			07/23/2025	REVISED PER CITY COMMENTS

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:

Y.N./S.K.

DESIGNED BY:

L. ZAMUDIO

TECH REVIEW: DATE:

01/06/25

CHECKED BY: DATE:

01/06/25

APPROVED BY: DATE:

01/06/25

01/06/25



TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
SITE ELEVATIONS

DISTRICT:
LOS ALTOS

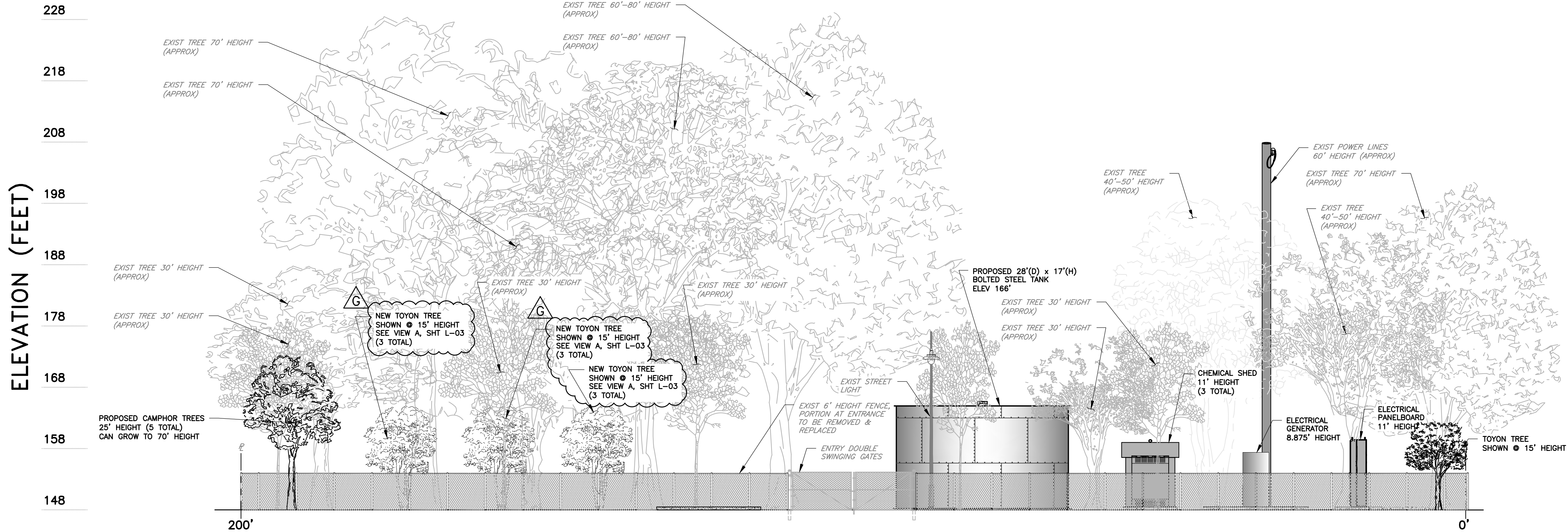
PROJECT ID:
111

DRAWING NO.:
00116020

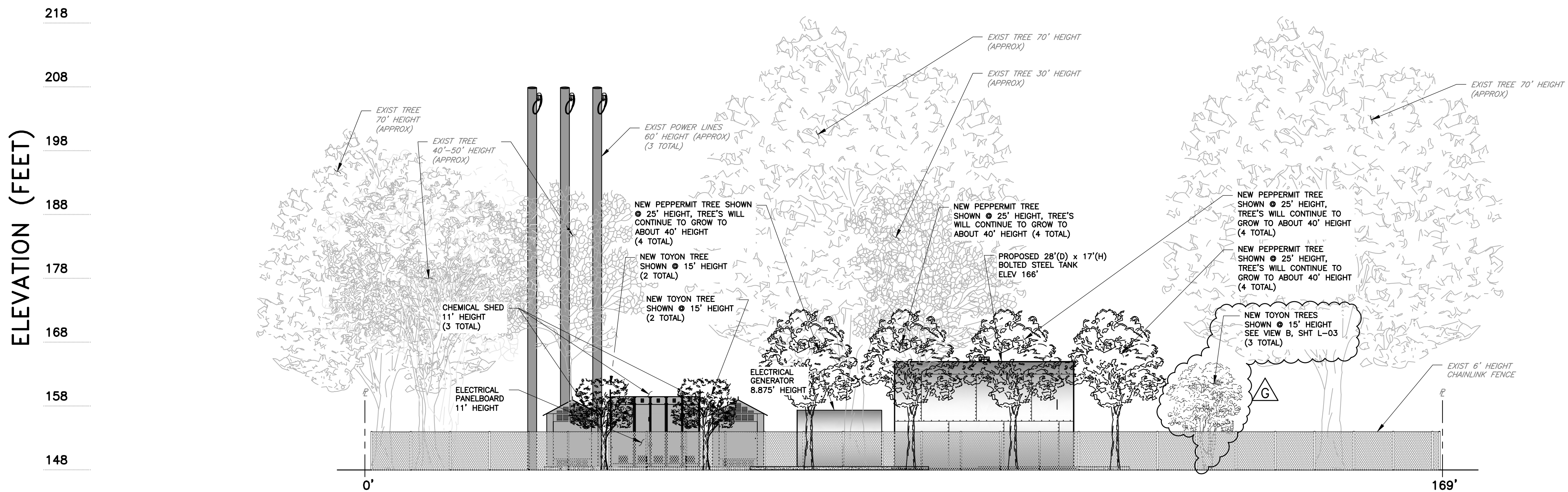
LAS-3703-C-02

SHT 7 OF 18

USERNAME: Skaragiou, 4/30/2026 3:45 PM
FILENAME: G:\Capital_Projects\CAO TEAM FILES\111_Los_Altos\00116020_New_Well_Replacement\WP\LAS-3703-C-03.dwg



VIEW **C** SOUTH ELEVATION VIEW
(FROM CARLISE WAY)
SCALE: 1"=10'



VIEW **D** EAST ELEVATION VIEW
(FROM PANAMA PARK)
SCALE: 1"=10'

VERIFY SCALES
0 1"
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY



REVISIONS	SK	WH	MC	REVISED PER CITY COMMENTS
1	G			
REVISIONS	SK	LZ	MC	REVISED PER CITY COMMENTS
1	A			
REVISIONS	DC	LZ	MC	REVISED PER CITY COMMENTS
1	A			

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:

Y.N./S.K.

DESIGNED BY:

L. ZAMUDIO

TECH REVIEW: DATE:

01/06/25

CHECKED BY: DATE:

01/06/25

APPROVED BY: DATE:

01/06/25

01/06/25



TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISE WAY
SUNNYVALE, CALIFORNIA
SITE ELEVATIONS

DISTRICT:
LOS ALTOS

111

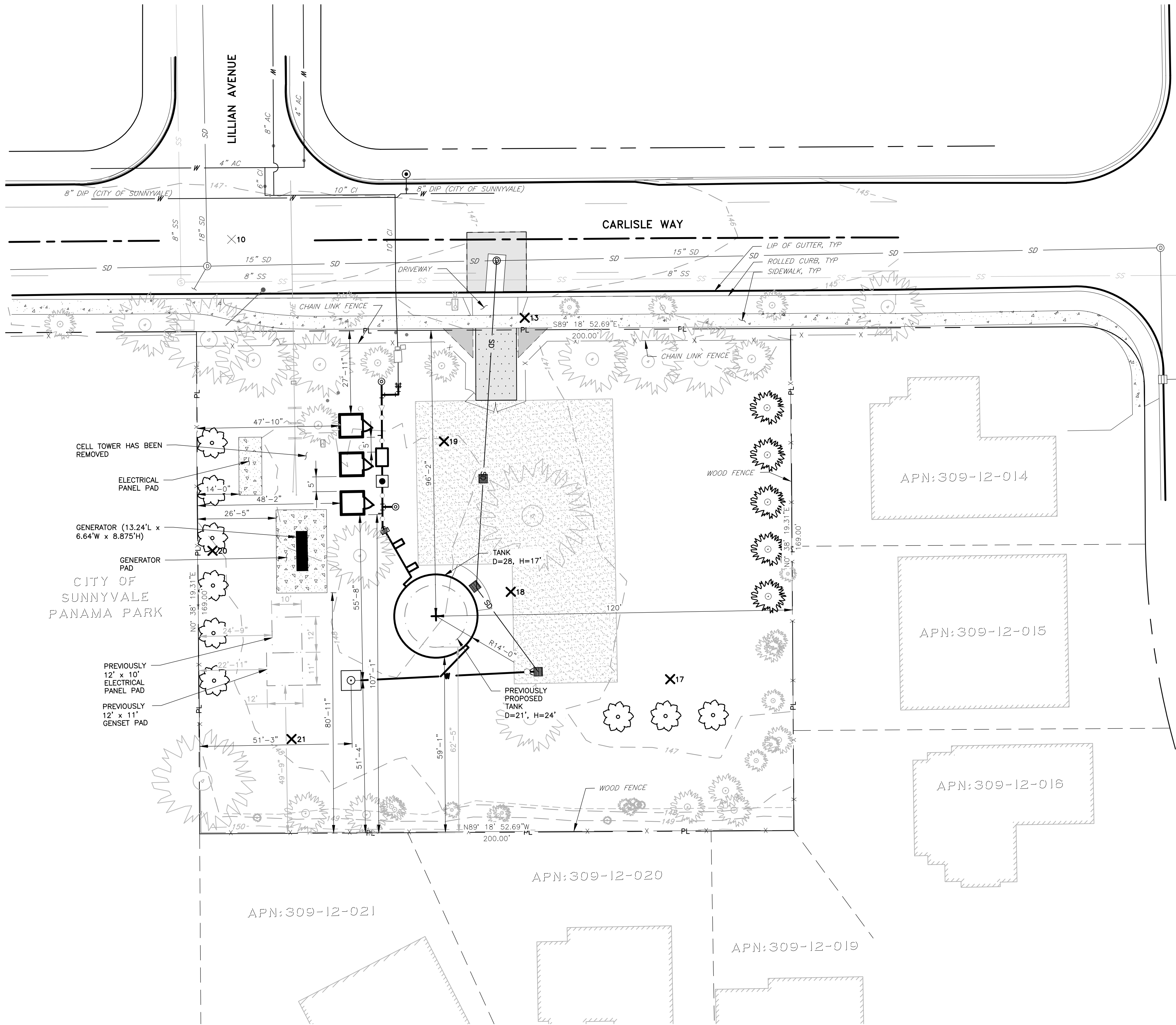
PROJECT ID:

00116020

DRAWING NO.:

LAS-3703-C-03

SHT 8 OF 18



POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
10	146.96	1953016.0280	6120428.5970	FND 0.75" IP
11	143.50	1953011.9840	6120766.6550	FND BCM
13	146.74	1952987.9110	6120526.7830	CNPT SPIKE/TAG
17	146.75	1952865.4687	6120573.6289	CNPT SPIKE/TAG
18	147.49	1952895.8061	6120520.4958	CNPT SPIKE/TAG
19	147.92	1952946.8132	6120498.9036	CNPT SPIKE/TAG
20	147.97	1952911.3665	6120420.3700	CNPT SPIKE/TAG
21	147.91	1952847.5556	6120445.8624	CNPT SPIKE/TAG

CITY OF SUNNYVALE SETBACK REQUIREMENTS:

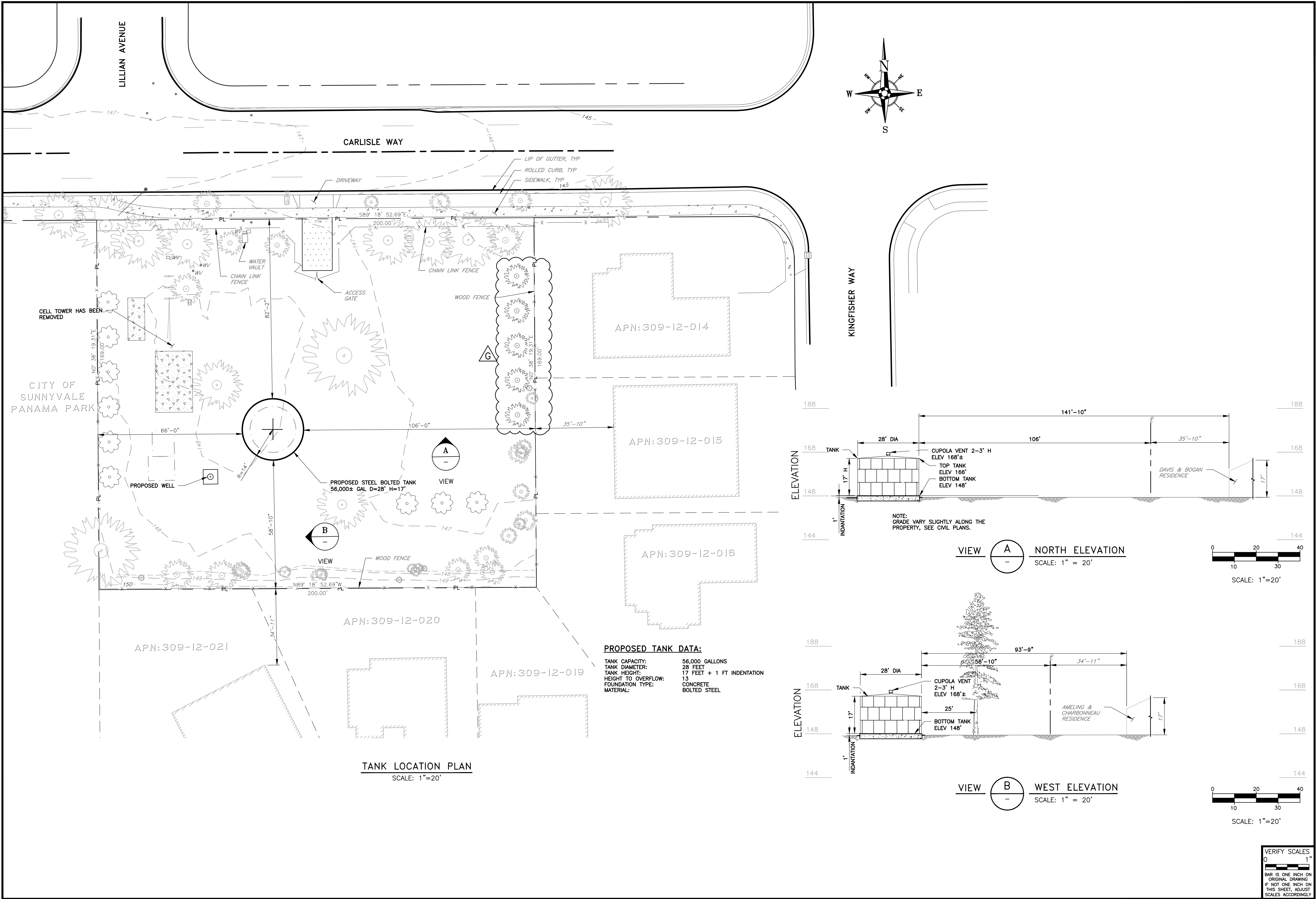
- FRONT: 20 FEET, THIS REQUIREMENT IS MET
- SIDE (WEST): 4 FEET, THIS REQUIREMENT IS MET
- COMBINED SIDE: 20% OF LOT WIDTH, OR 10 FEET WHICHEVER IS GREATER, IN THIS CASE 20% IS 40 FEET, BECAUSE WE HAVE OVER 22 FEET SETBACK ON THE WEST, EAST SIDE SETBACK MINIMUM SHOULD BE APPROXIMATELY 18 FEET, THIS REQUIREMENT IS MET



REVISIONS		SK	WH	MC
REVISED PER CITY COMMENTS		6/1/25	6/2/2025	SK
REVISED PER CITY COMMENTS		12/02/2025	DC	LZ
REVISED PER CITY COMMENTS		07/23/2025	07/23/2025	07/23/2025

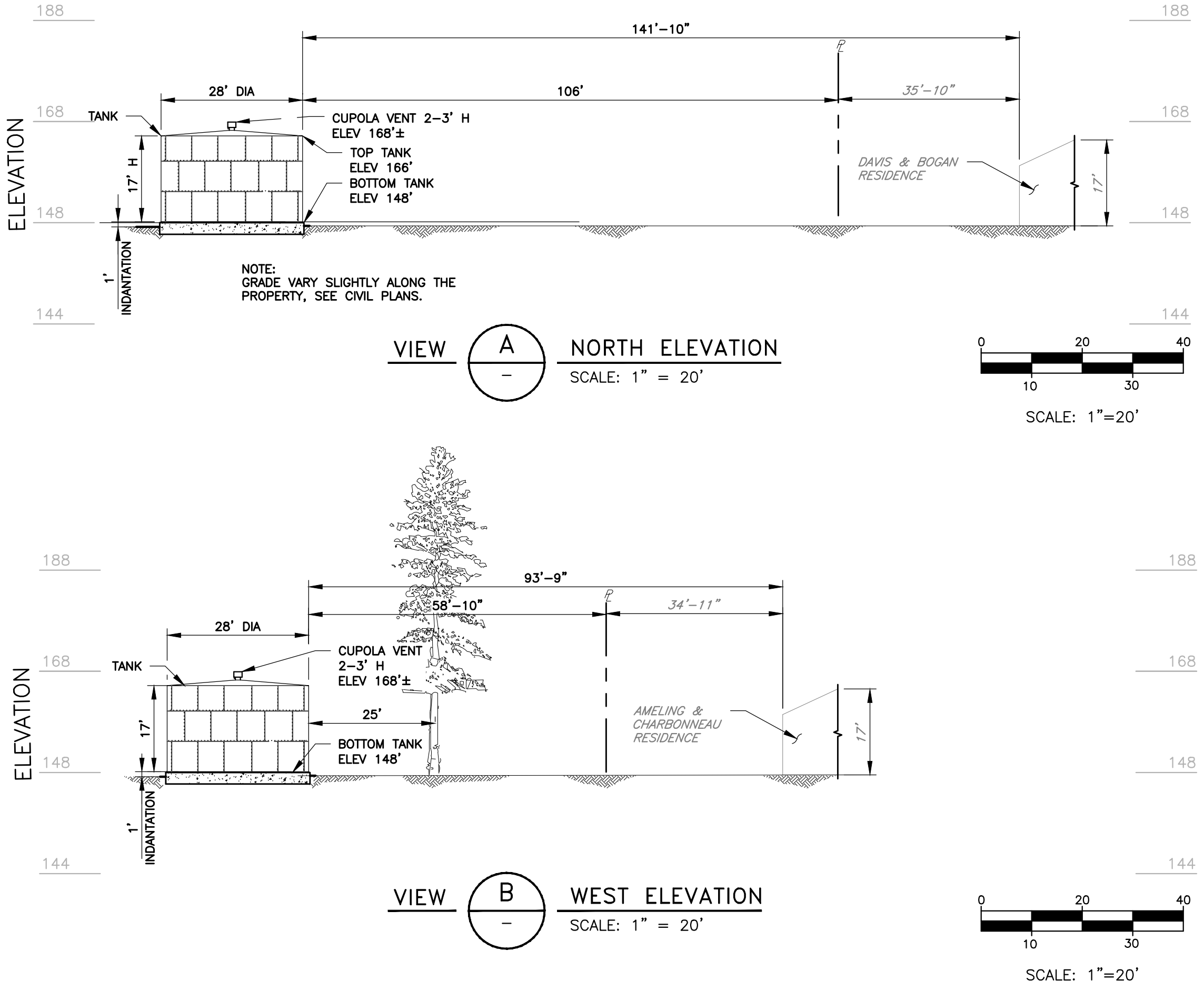


TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
HORIZONTAL CONTROL PLAN & TABLE



TANK LOCATION PLAN
SCALE: 1"=20'

PROPOSED TANK DATA:
TANK CAPACITY: 56,000 GALLONS
TANK DIAMETER: 28 FEET
TANK HEIGHT: 17 FEET + 1 FT INDENTATION
HEIGHT TO OVERFLOW: 13
FOUNDATION TYPE: CONCRETE
MATERIAL: BOLTED STEEL



VERIFY SCALES
0 1"
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

Attachment 8
Page 10 of 18

ENGINEERING

CALIFORNIA
WATER SERVICE

DEPARTMENT

REVISIONS	REVISED PER CITY COMMENTS	DATE
1	REVISED PER CITY COMMENTS	04/30/2026
2	REVISED PER CITY COMMENTS	06/11/2026
3	REVISED PER CITY COMMENTS	07/23/2026

PLAT SHEET NO.: LAS-33-32

SCALE: AS SHOWN

DRAWN BY: Y.N./S.K.

DESIGNED BY: L. ZAMUDIO

TECH REVIEW: DATE: 01/06/25

CHECKED BY: DATE: 01/06/25

APPROVED BY: DATE: 01/06/25

REGISTERED PROFESSIONAL ENGINEER
MARY E. KEAN
No. C55726
CIVIL
STATE OF CALIFORNIA

TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
TANK LOCATION PLAN

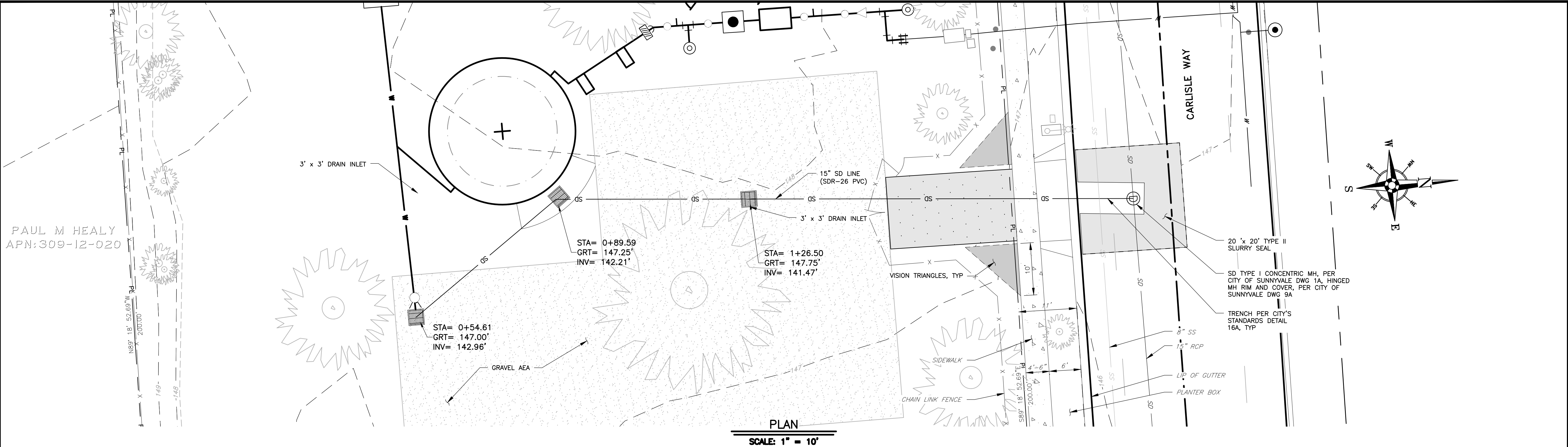
DISTRICT: LOS ALTOS

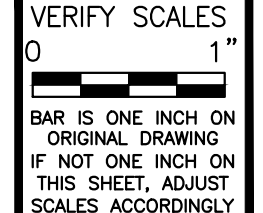
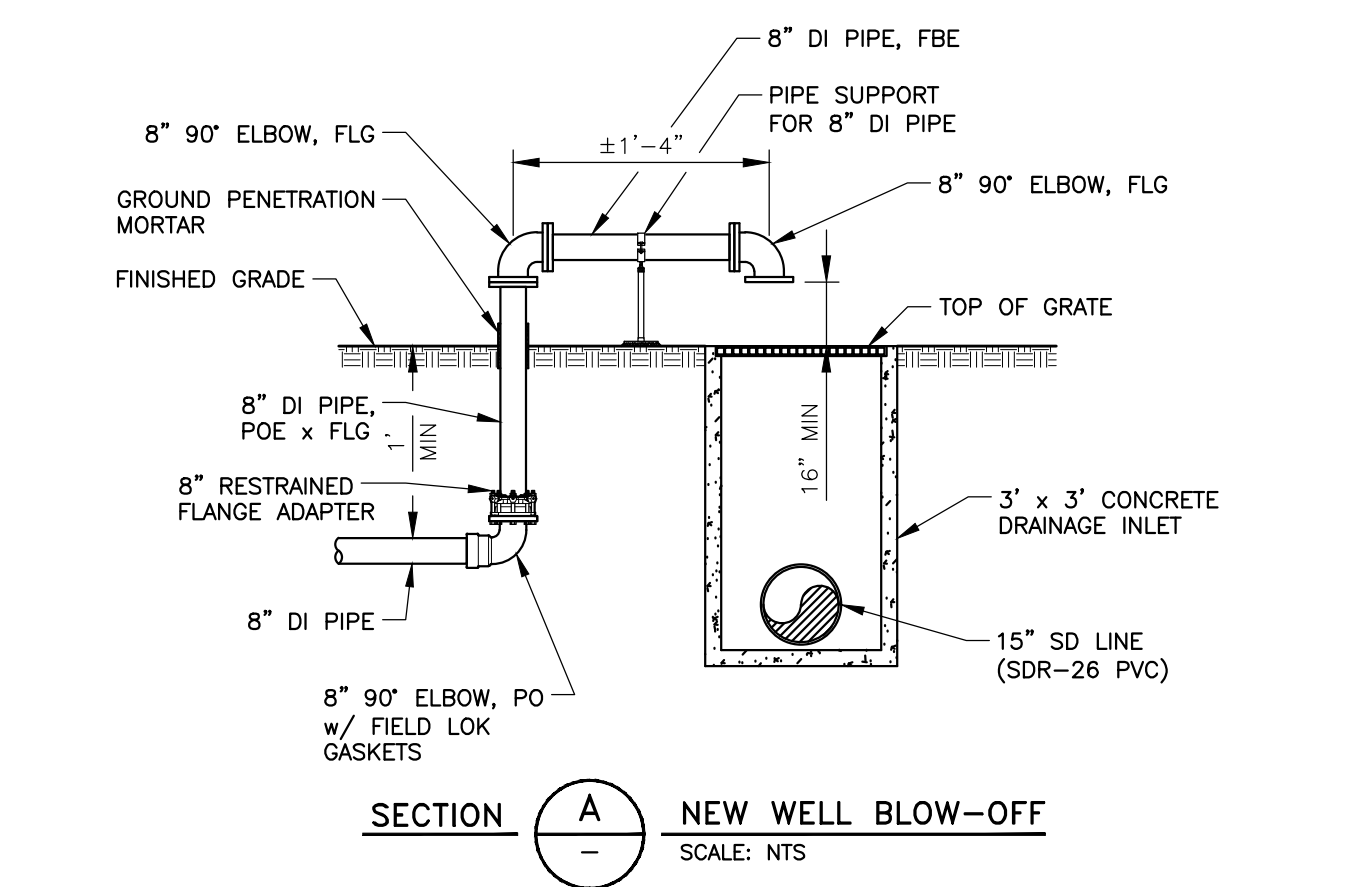
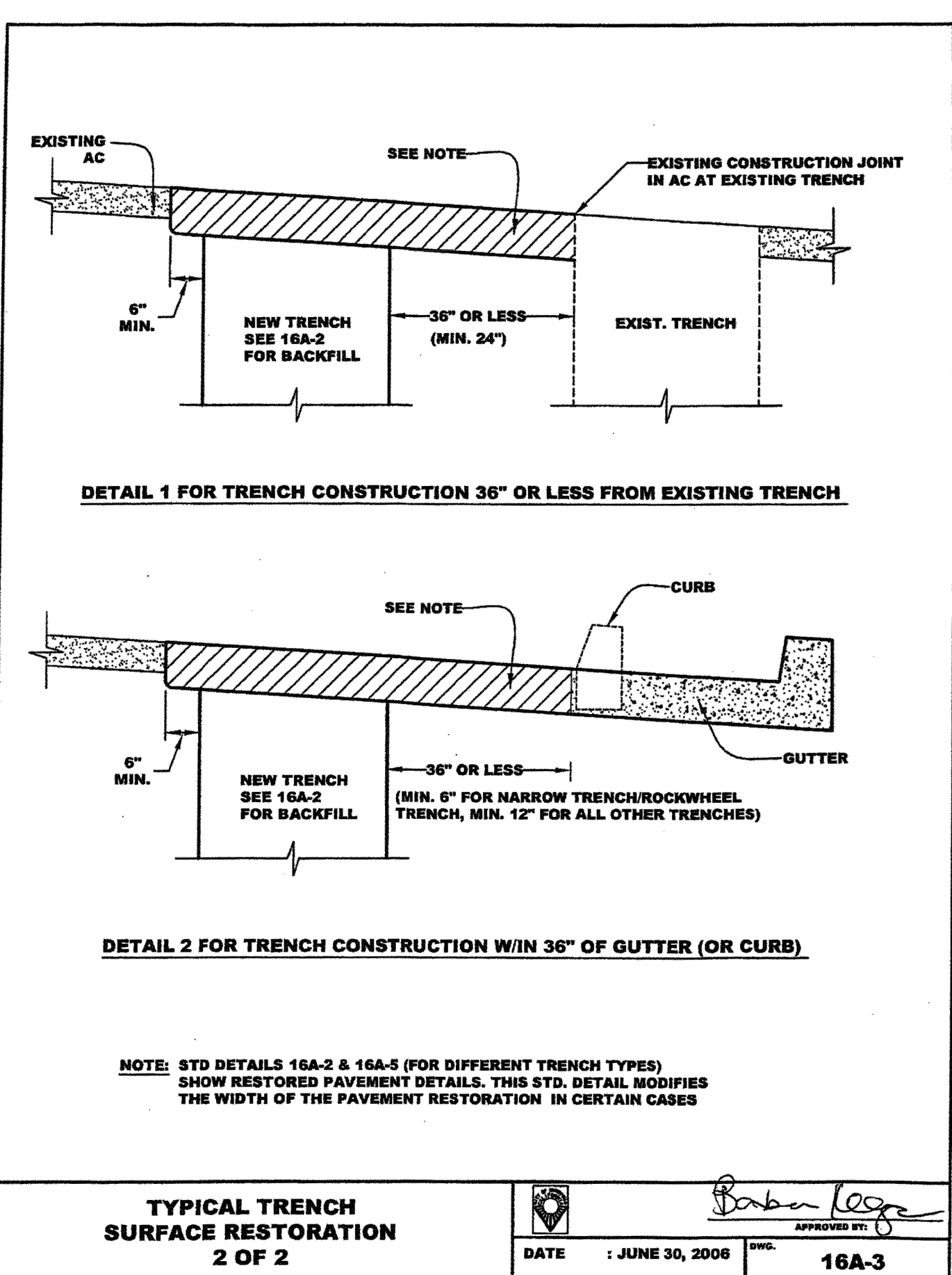
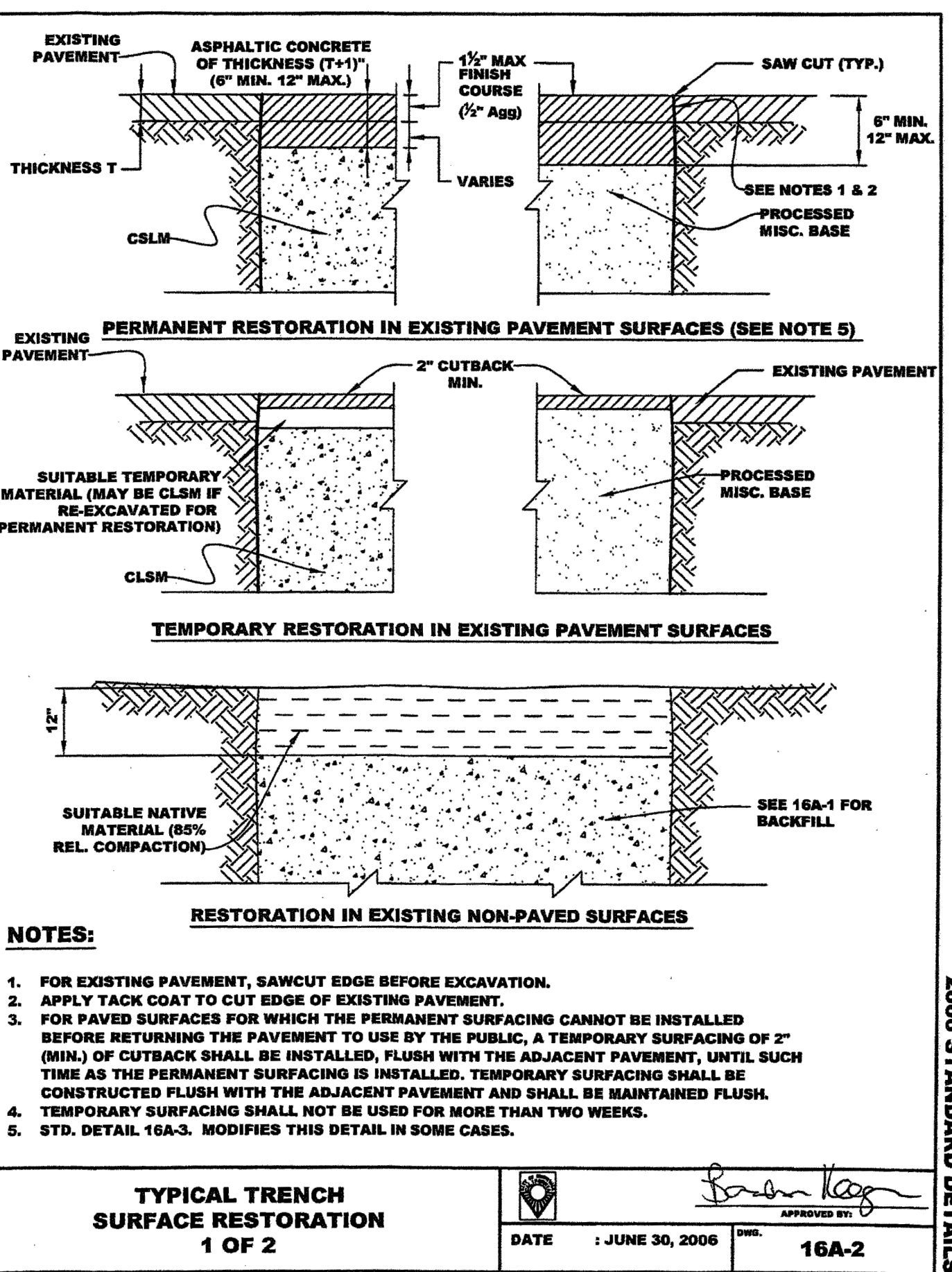
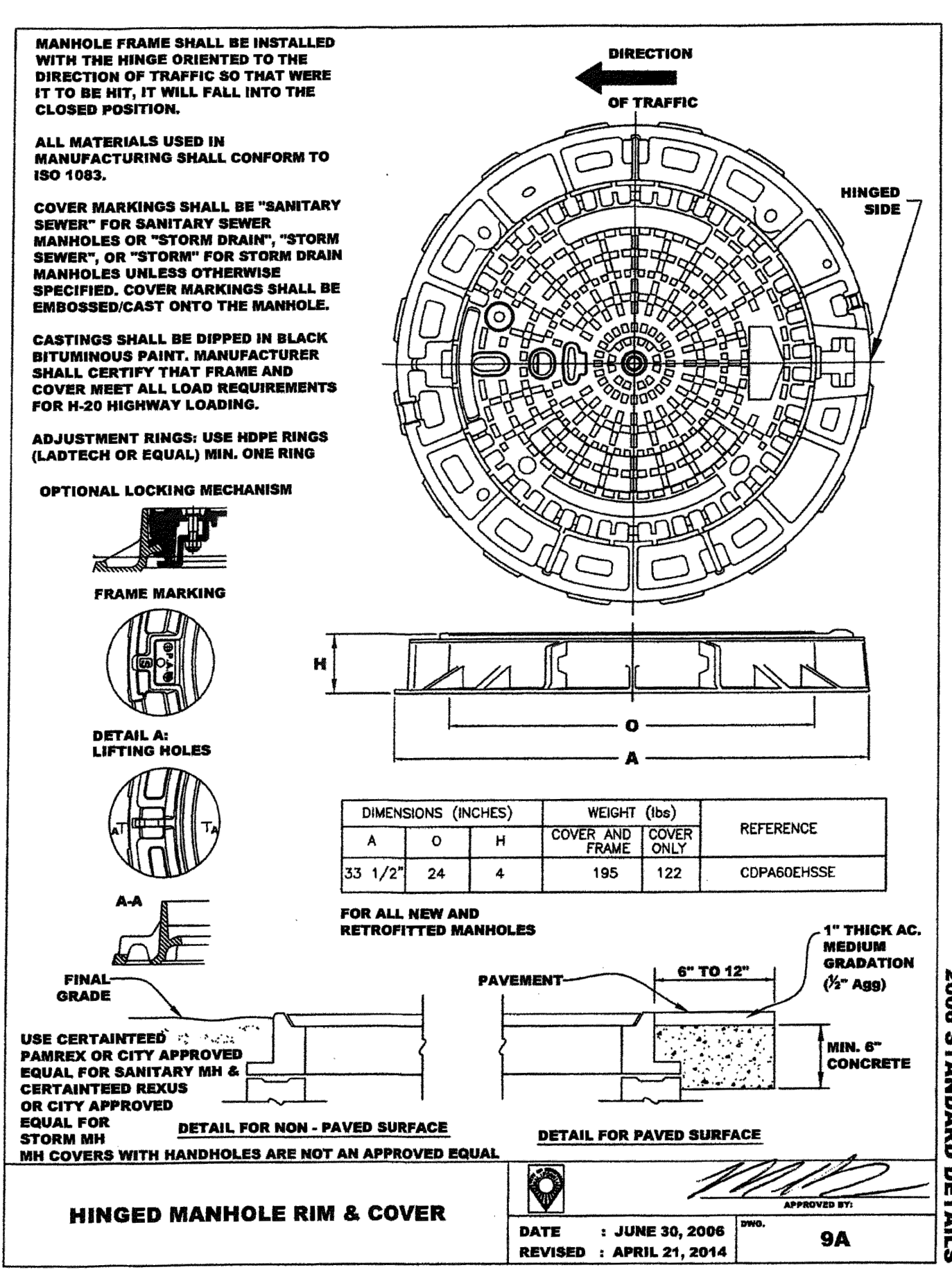
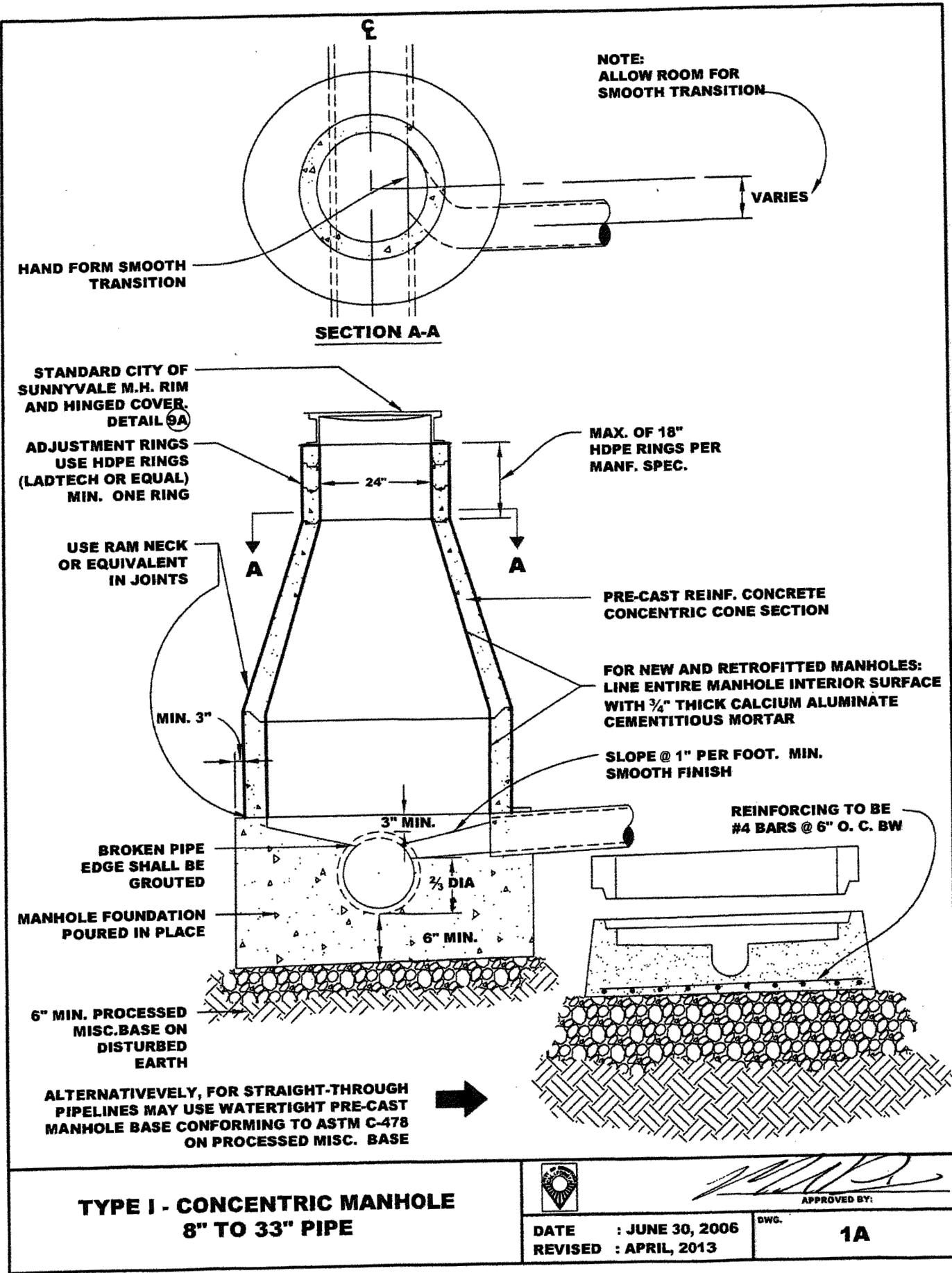
PROJECT ID: 111

DRAWING NO.: 00116020

LAS-3703-C-05

SHT 10 OF 18





Attachment 8
Page 12 of 18

ENGINEERING

CALIFORNIA
WATER SERVICE

DEPARTMENT

REV	DATE	BY	REVISIONS
01	04/30/2006	Y.N./S.K.	REVISED PER CITY COMMENTS
02	04/30/2006	Y.N./S.K.	REVISED PER CITY COMMENTS
03	07/23/2003	Y.N./S.K.	REVISED TO INCLUDE ELEVATION VIEWS
04	05/12/2005	Y.N./S.K.	REVISED TO INCLUDE ELEVATION VIEWS

PLAT SHEET NO.: LAS-33-32

SCALE: AS SHOWN

DRAWN BY: Y.N./S.K.

DESIGNED BY: L. ZAMUDIO

TECH REVIEW: DATE: 01/06/25

CHECKED BY: DATE: 01/06/25

APPROVED BY: DATE: 01/06/25

REGISTERED PROFESSIONAL ENGINEER
MARY E. KEAN
No. C55726
CIVIL
STATE OF CALIFORNIA

TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
DETAILS - 1

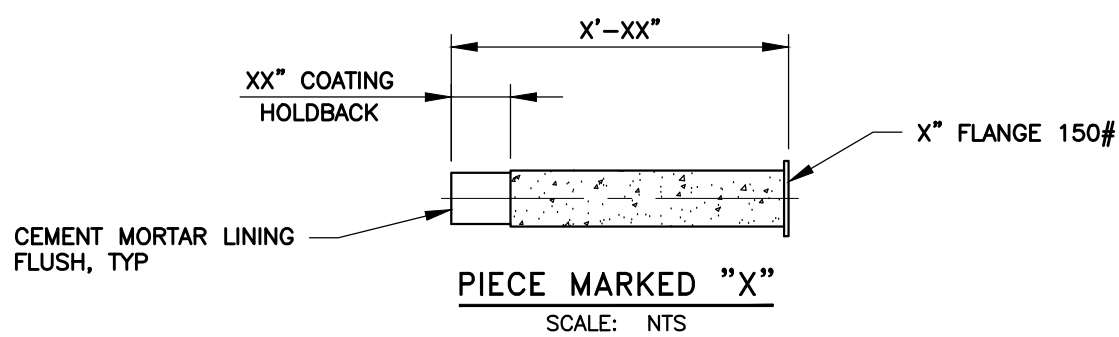
DISTRICT: LOS ALTOS

PROJECT ID: 111

00116020

DRAWING NO.: LAS-3703-C-07

SHT 12 OF 18



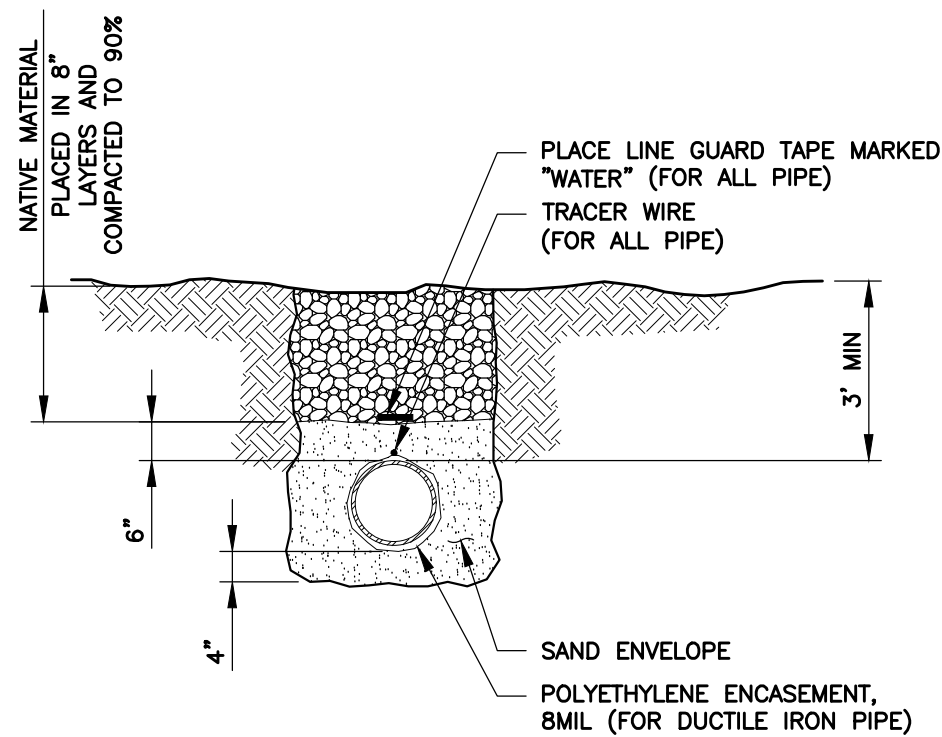
PIECE "MARKED"	QTY	PIPE			
		STEEL CYL (OD)	SCH	CML	CMC
—	1	6.63"	40	3/8"	3/4"
—	1	8.63"	20	3/8"	3/4"
—	1	10.75"	20	1/2"	3/4"
—	1	12.75"	20	1/2"	3/4"
—	1	14.0"	10	1/2"	3/4"
—	1	16.0"	10	1/2"	3/4"
—	1	18.0"	10	1/2"	3/4"
—	1	20.0"	10	1/2"	3/4"

CEMENT MORTAR LINING, CML
CEMENT MORTAR COATING, CMC

CWS STD
 DETAIL

1.1-6

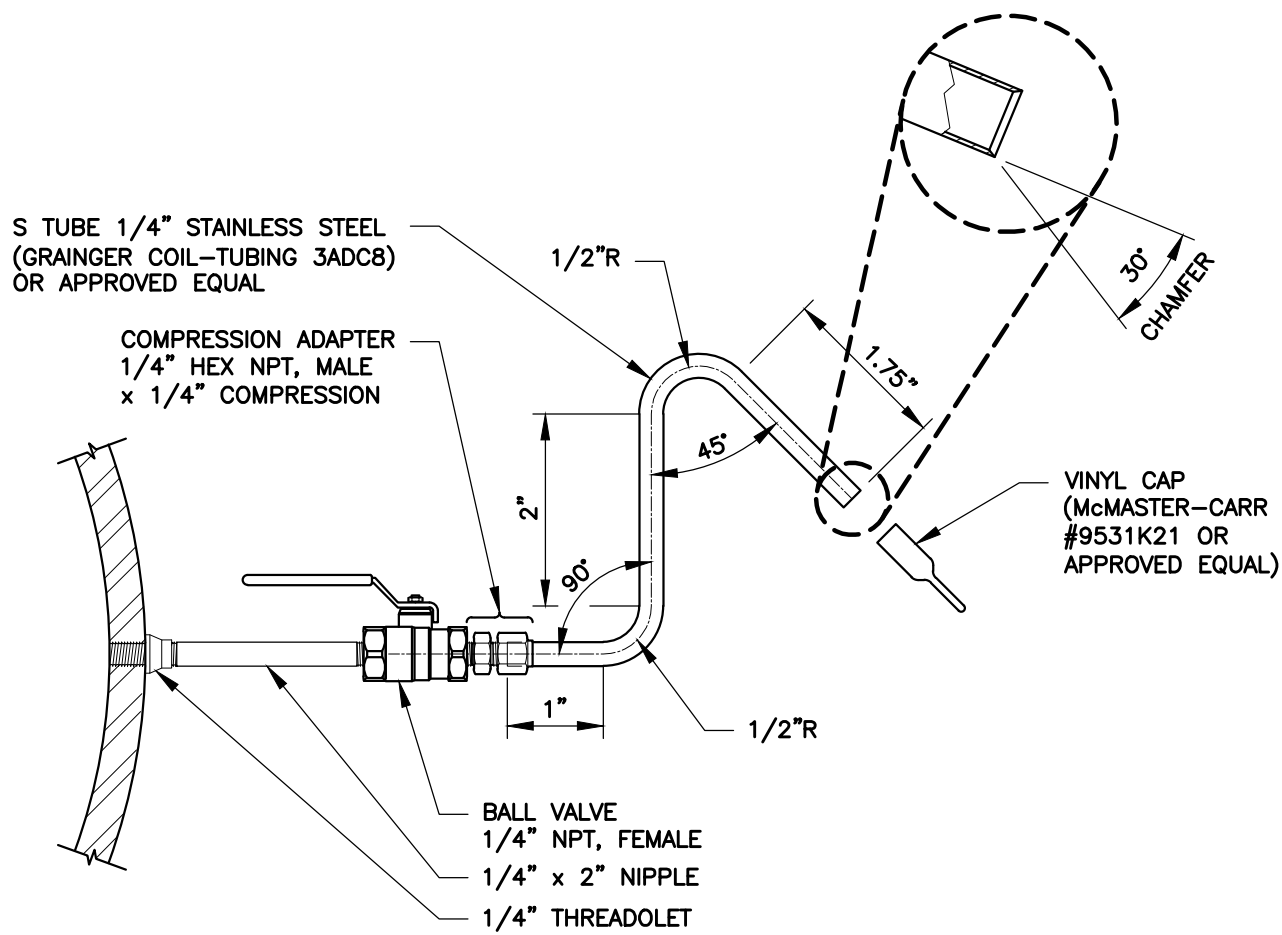
 CL&C FABRICATION DETAIL
 SCALE: NTS



CWS STD
 DETAIL

1-3-4

 ON-SITE TRENCH DETAIL
 SCALE: NTS

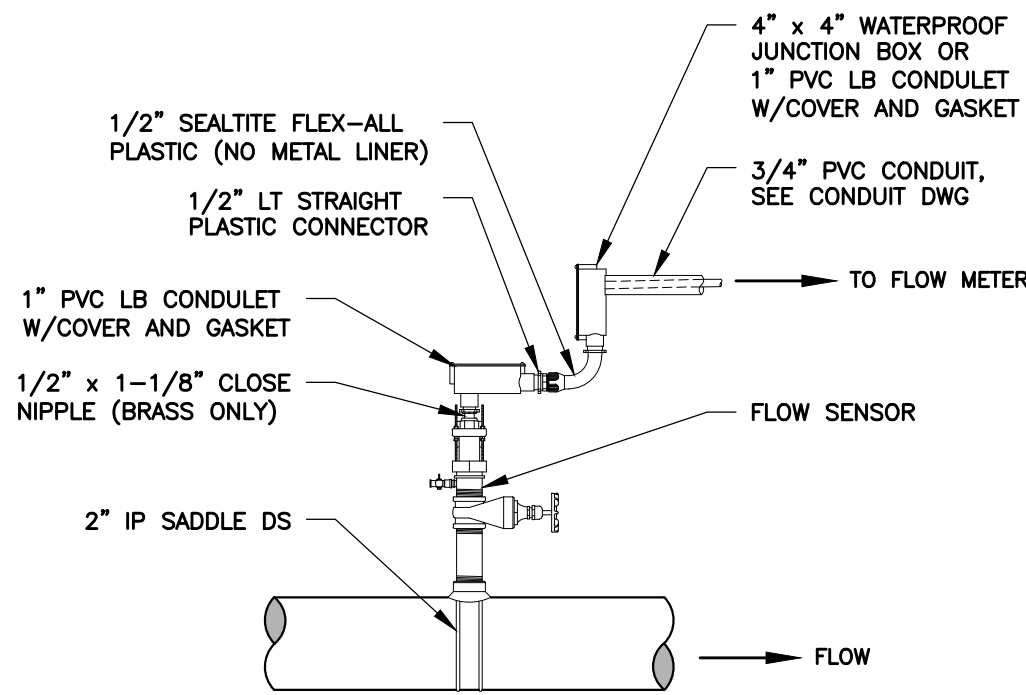


NOTE:
1. THE NIPPLE SHALL BE BRASS CLASS 150, MINIMUM OR STAINLESS STEEL SCHEDULE 40.

CWS STD
 DETAIL

1.1-7

 SAMPLE TAP
 WELL SAMPLING STATION
 SCALE: NTS

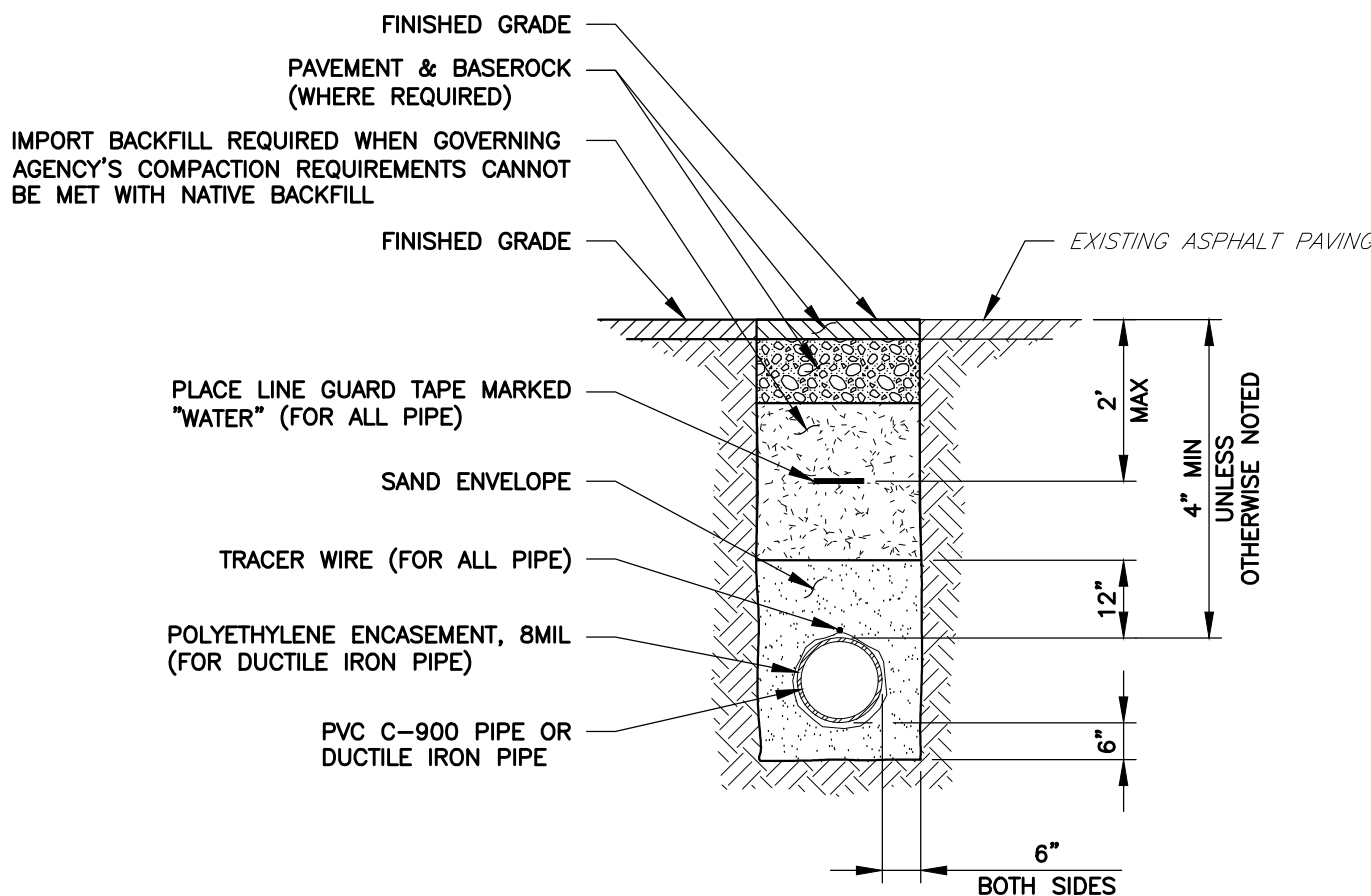


NOTE: ALL PARTS AND EQUIPMENT MUST BE COMPATIBLE WITH THE CHEMICAL IN USE.

CWS STD
 DETAIL

2.1-2

 FLOW SENSOR DETAIL
 SCALE: NTS

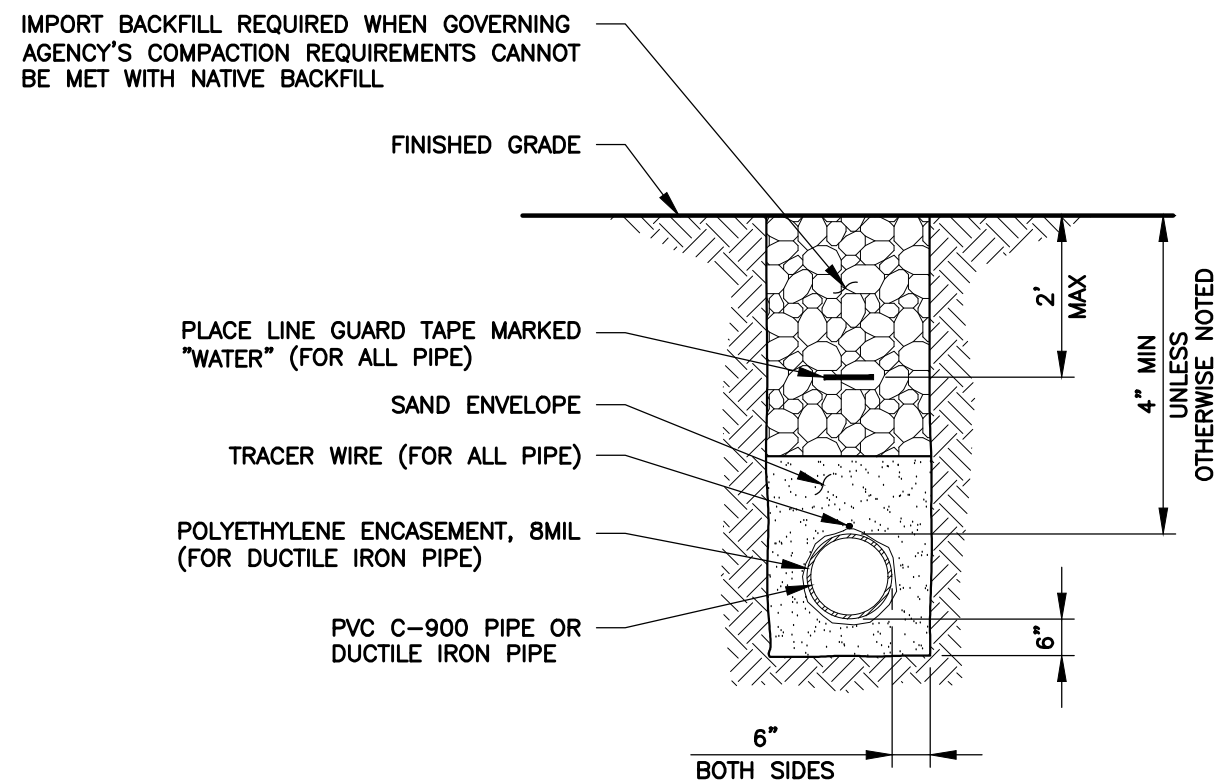


NOTES:
1. ALL EXCESS SPOIL "IN TRACT" IS TO REMAIN TRENCHSIDE AND ALL EXCESS SPOIL "OFF TRACT" IS TO BE REMOVED.
2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

CWS STD
 DETAIL

1.3-1

 TRENCH CROSS SECTION
 SCALE: NTS

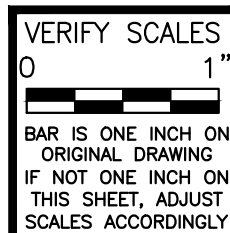


NOTES:
1. ALL EXCESS SPOIL "IN TRACT" IS TO REMAIN TRENCHSIDE AND ALL EXCESS SPOIL "OFF TRACT" IS TO BE REMOVED.
2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

CWS STD
 DETAIL

1-3-3

 TRENCH CROSS SECTION
 SCALE: NTS



REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	REVISED TO INCLUDE ELEVATION VIEWS
SK WHI MK	04/30/2026	DLI LZ MK	07/23/2025
SK LZ MK	05/12/2025		

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:

Y.N./S.K.

DESIGNED BY:

L. ZAMUDIO

TECH REVIEW: DATE:

01/06/25

CHECKED BY: DATE:

01/06/25

APPROVED BY: DATE:

01/06/25

01/06/25

01/06/25

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01/06/25

01/06/25



04/30/2026	SK LZ MK	REVISED TO INCLUDE ELEVATION VIEWS
05/12/2025	SK LZ MK	ISSUED FOR PERMIT
01/06/2025		

LAS-33-32

LE:

AS SHOWN

WN BY:
Y N /S K

Y.N./S.K.

SIGNED BY:

L. ZAMUDIO

H REVIEW: DATE:

01/06/25

CKED BY: DATE:

01/06/25

APPROVED BY: DATE:

Ray E. Keen 01/06/25



100S, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
ACOUSTICAL PUMP SHELTER
DETAILS

TRICT:

LOS ALTOS

111

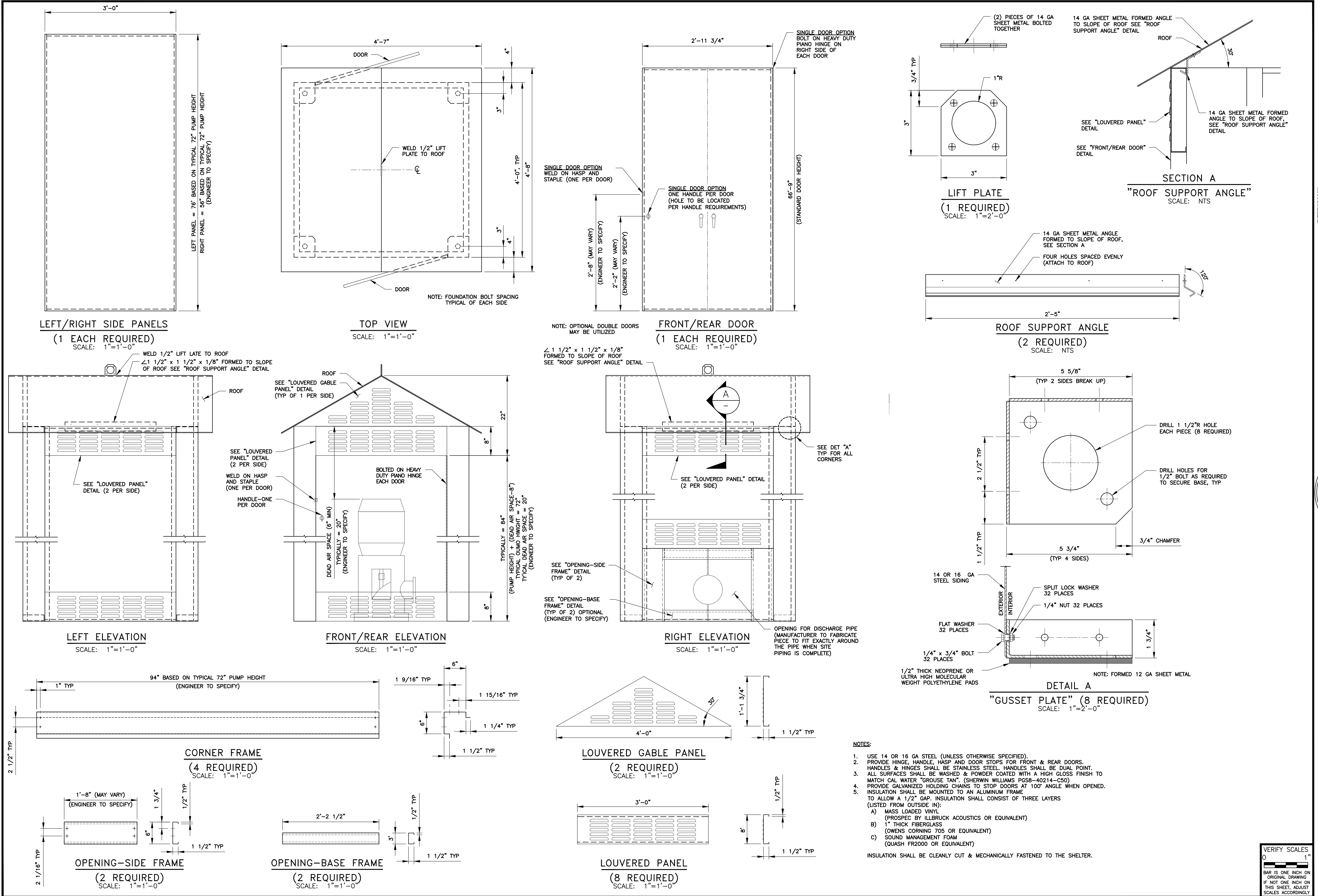
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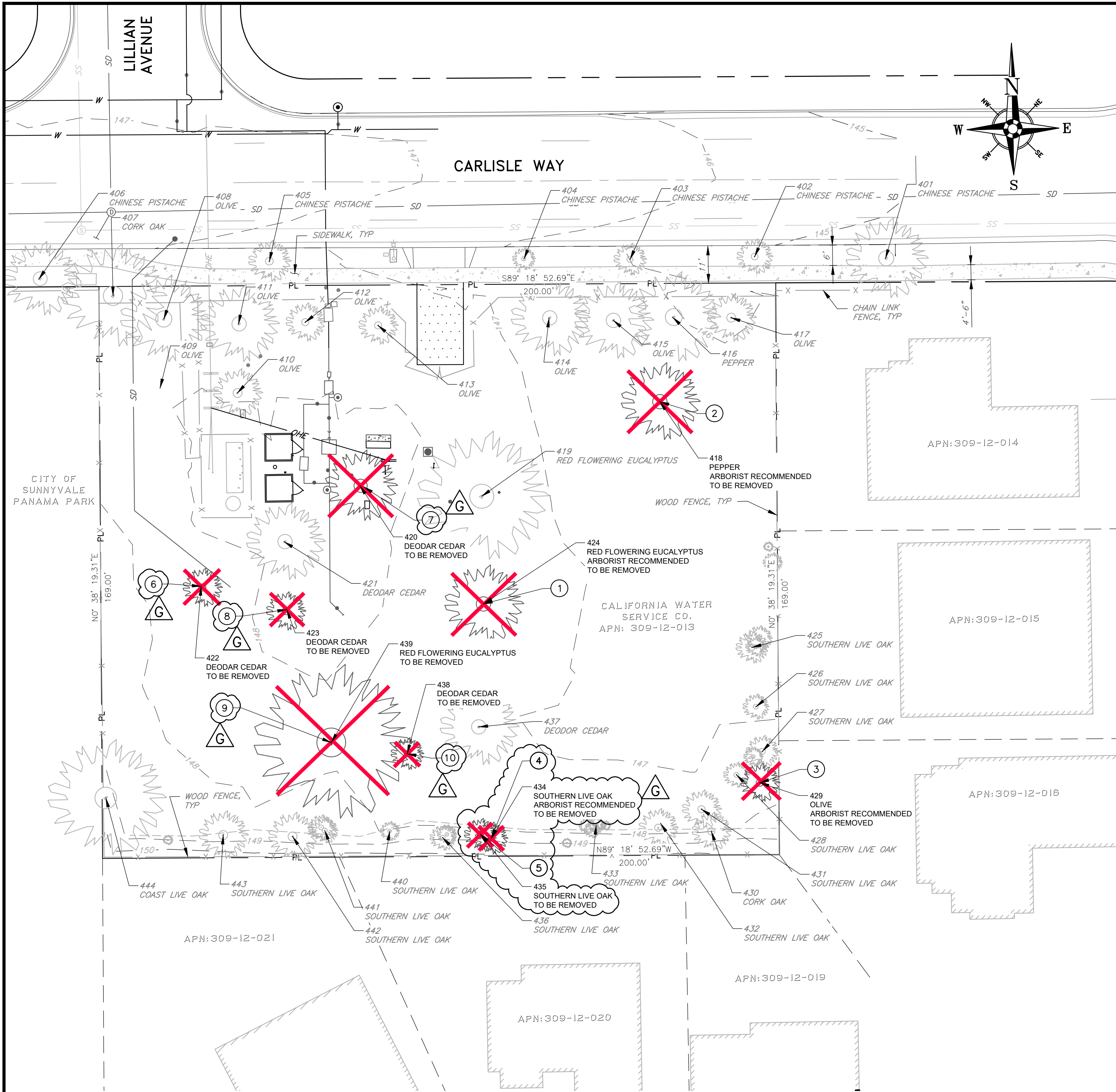
00116020 

WING NO.: G

S-3703-C-09

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TREE REMOVAL PLAN
SCALE: 1"=20'

EXISTING TREE SURVEY DATA								
TAG NO.	COMMON NAME	DIAMETER AT BREAST HEIGHT	H'/W'	PROTECTED (X)	REMOVAL RECOMMENDED BY ARBORIST (X)	REMOVAL REQUIRED FOR CONSTRUCTION (X)	TREE DISPOSITION	NOTES, RECOMMENDATIONS
401	CHINESE PISTACHE	15	22'/25'	X			B	EWR, DWR, SP, MULTIPLE LEADERS AT 6', STREET TREE
402	CHINESE PISTACHE	6.5	17'/8'				B	EWR, DWR, SP, THIN CANOPY, STREET TREE
403	CHINESE PISTACHE	5	18'/10'				B	EWR, DWR, SP, CODOMINANT LEADERS AT 7.5', STREET TREE
404	CHINESE PISTACHE	6.6	16'/12'				B	EWR, DWR, SP, CODOMINANT LEADERS AT 6', STREET TREE
405	CHINESE PISTACHE	7.5	18'/20'				A	EWR, DWR, STREET TREE
406	CHINESE PISTACHE	15.3	25'/32'	X			B	EWR, DWR, SP, MULTIPLE LEADERS AT 7'
407	CORK OAK	20.7	40'/30'	X			B	EWR, DWR, SP, RCE, CODOMINANT LEADERS AT 5.5'
408	OLIVE	8.5/6/4.5	15'/16'				B	EWR, DWR, SP, MULTIPLE LEADERS AT 2.5'
409	OLIVE	6/5/4/3/2.5/2	12'/12'				B	EWR, DWR, SP, MULTIPLE LEADERS AT BASE
410	OLIVE	10.6/8.5/8.4	18'/25'				B	EWR, DWR, SP, MULTIPLE LEADERS AT BASE
411	OLIVE	7.5/6/5.5/4/2	18'/28'				B	EWR, DWR, SP, MULTIPLE LEADERS AT BASE
412	OLIVE	7.5/7.5/7	18'/15'				B	EWR, DWR, SP, MULTIPLE LEADERS AT 2.5'
413	OLIVE	5/5/3.5/3.5/2.5/2	16'/20'				B	EWR, DWR, SP, MULTIPLE LEADERS AT BASE
414	OLIVE	12.2/8	22'/25'				B	EWR, DWR, SP, MULTIPLE LEADERS AT 4'
415	OLIVE	9.4/7.2	25'/25'				B	EWR, DWR, SP, CODOMINANT LEADERS AT 4'
416	OLIVE	8/7.8/5.5	25'/25'				B	EWR, DWR, SP, CODOMINANT LEADERS AT BASE
417	OLIVE	9/6.8/4.5	20'/25'				B	EWR, DWR, SP, CODOMINANT LEADERS AT BASE
418	PEPPER	15.4	16'/20'		X		C	RR, THIN CANOPY LEANING, NO HOPE FOR RECOVERY
419	RED FLOWERING EUCALYPTUS	28/19/12	45'/30'	X			B	EWR, DWR, SP, MULTIPLE LEADERS AT BASE
420	DEODAR CEDAR	17.9	45'/30'	X		X	B	EWR, DWR, SP
421	DEODAR CEDAR	23.4	60'/30'	X			B	EWR, DWR, SP
422	DEODAR CEDAR	14.3	45'/18'	X		X	B	EWR, DWR, SP
423	DEODAR CEDAR	22.6	25'/25'	X		X	B	EWR, DWR, SP
424	RED FLOWERING EUCALYPTUS	17/12/7	26'/18'		X		C	RR, TREE IS DEAD
425	SOUTHERN LIVE OAK	8/5.8/3.5	28'/20'				B	EWR, DWR, SP, MULTIPLE LEADERS AT BASE
426	SOUTHERN LIVE OAK	8.8	20'/16'				B	EWR, DWR, SP, RCE, CODOMINANT LEADERS
427	SOUTHERN LIVE OAK	7.4	30'/15'				B	EWR, DWR, SP, RCE, CODOMINANT LEADERS AT 16'
428	SOUTHERN LIVE OAK	6.3	30'/7'				B	EWR, DWR, SP, RCE
429	OLIVE	5/4/4/3.5	25'/12'		X		C	CONSIDER REMOVAL, OVER CROWDING
430	CORK OAK	19.4	22'/25'	X			B	EWR, DWR, SP, RCE
431	SOUTHERN LIVE OAK	8/7.5/4.5	25'/28'				B	EWR, DWR, SP, RCE, MULTIPLE LEADERS AT BASE
432	SOUTHERN LIVE OAK	9.5/8/8/5.5	28'/25'				B	EWR, DWR, SP, RCE, MULTIPLE LEADERS AT BASE
433	SOUTHERN LIVE OAK	6/6/4/3.5/3/2.5	28'/16'				B	EWR, DWR, SP, RCE, 6 TREES BUNCHED TOGETHER
434	SOUTHERN LIVE OAK	10/3.5	15'/12'		X		C	RR, TREE WAS TOPPED AT 5.5'
435	SOUTHERN LIVE OAK	10.5	20'/18'			X	B	EWR, DWR, SP, RCE, MULTIPLE LEADERS AT 4.5'
436	SOUTHERN LIVE OAK	8.5/7	22'/17'				B	EWR, DWR, SP, RCE, CODOMINANT LEADERS AT BASE
437	DEODAR CEDAR	18	48'/36'	X			B	EWR, DWR, SP, RCE, CODOMINANT LEADERS
438	DEODAR CEDAR	8.5	35'/18'			X	B	EWR, DWR, SP, RCE
439	RED FLOWERING EUCALYPTUS	36 @ 2'	50'/35'	X		X	B	EWR, DWR, SP, RCE, MULTIPLE LEADERS AT 2'
440	SOUTHERN LIVE OAK	3.5/3.5/3/2.5	15'/12'				B	EWR, DWR, SP, RCE, MULTIPLE LEADERS
441	SOUTHERN LIVE OAK	5.5/5	15'/12'				B	EWR, DWR, SP, RCE, CODOMINANT LEADERS AT BASE
442	SOUTHERN LIVE OAK	3.5/3/3/3/2	18'/12'				B	EWR, DWR, SP, RCE, MULTIPLE LEADERS
443	SOUTHERN LIVE OAK	6/6/4.5	18'/13'				B	EWR, DWR, SP, RCE, MULTIPLE LEADERS
444	COAST LIVE OAK	24/20	35'/20'	X			B	EWR, DWR, SP, RCE, CODOMINANT LEADERS AT BASE
LEGEND:				TOTAL			SUBTOTAL	
A = RETAIN, CONDITION WARRANTS LONG-TERM PRESERVATION							1	
B = PRESERVABLE, BUT MAY NOT BE WORTHY OF EXTENSIVE EFFORT OR DESIGN ACCOMMODATION							39	
C = RECOMMEND REMOVAL DUE TO EXISTING CONDITION AND/OR STRUCTURE							4	
TOTAL TREES:							44	
TOTAL TREES REMOVED:				10				
PROTECTED TREES REMOVED:				4				

KEY TO ACRONYMS:

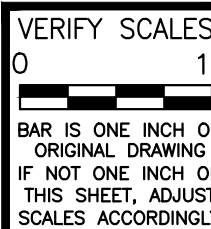
- DWR - DEAD WOOD REMOVAL PRUNING RECOMMENDED.
EWR - END WEIGHT REDUCTION: PRUNING TO REMOVE WEIGHT FROM LIMB ENDS, THUS REDUCING THE POTENTIAL FOR LIMB FAILURE(S).
RCE - ROOT COLLAR EXCAVATION: EXCAVATING A SMALL AREA AROUND A TREE THAT IS CURRENTLY BURIED BY SOIL OR REFUSE ABOVE BUTTRESS ROOTS, USUALLY DONE WITH A HAND SHOVEL.
SP - STRUCTURAL PRUNING: REMOVAL OF SELECTED NON-DOMINANT LEADERS IN ORDER TO BALANCE THE TREE.
CD - CODOMINANT LEADER, TWO LEADERS WITH A NARROW ANGLE OF ATTACHMENT AND PRONE TO FAILURE.
LCR - LIVE CROWN RATIO.
RR - RECOMMEND TREE REMOVAL BASED UPON HEALTH OR STRUCTURE OF TREE.
PROP - STEEL PROP IN CONCRETE FOOTING RECOMMENDED TO HELP SUPPORT A TREE/LIMB.
CABLE - RECOMMEND A STEEL CABLE(S) BE INSTALLED TO HELP SUPPORT A WEAKLY ATTACHED LIMB(S).

TREE DEMOLITION NOTES:

- ① EUCALYPTUS TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
② PEPPER TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
③ OLIVE TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
④ SOUTHERN LIVE OAK TO BE REMOVED PER ARBORIST RECOMMENDATION
⑤ SOUTHERN LIVE OAK TO BE REMOVED
⑥ DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
⑦ DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
⑧ DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
⑨ RED FLOWERING EUCALYPTUS TO BE REMOVED FOR CONSTRUCTION
⑩ DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION

NOTE:

1. CITY TREES MUST BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES CAN BE EITHER SECURED ORANGE NETTING AROUND TREE'S CRITICAL ROOT ZONE, OR WRAP THE TREE TRUNKS WITH PLASTIC OR WOOD PROTECTION FOR THE DURATION OF CONSTRUCTION.



ENGINEERING



DEPARTMENT

REVISIONS	SK	WH	LM	REVISED PER CITY COMMENTS	DATE
1					04/30/2026
2					04/24/2025

PLAT SHEET NO.:

LAS-33-32

SCALE:

AS SHOWN

DRAWN BY:
Y.N./S.K.

DESIGNED BY:
L. ZAMUDIO

TECH REVIEW: DATE:
01/06/25

CHECKED BY: DATE:
01/06/25

APPROVED BY: DATE:
01/06/25



TITLE: NEW WELL & STEEL BOLTED TANK
LOS ALTOS, STATION 020, 800 CARLISLE WAY
SUNNYVALE, CALIFORNIA
TREE REMOVAL PLAN

DISTRICT:
LOS ALTOS

PROJECT ID:
111

DRAWING NO.:
00116020

DRAWING NO.:
LAS-3851-L-01

SHEET 15 OF 18

PLAT SHEET NO.:

SCALE:

DRAWN BY: _____

DESIGNED BY:

TECH REVIEW: DATE:

CHECKED BY: _____ DATE: _____

01/06/25

May E. Keen 01/06/25



WET

PROJECT ID.:

DRAWING NO.: /C

SHT 18 OF 18



VIEW  SOUTH ELEVATION VIEW
(FROM CARLISE WAY)
SCALE: 1"=10'



VIEW  EAST ELEVATION VIEW
(FROM PANAMA PARK)

