



DEPARTMENT

REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS
SK LZ LMK	02/02/2025	02/02/2025
02/02/2025	02/02/2025	02/02/2025
02/02/2025	02/02/2025	02/02/2025
02/02/2025	02/02/2025	02/02/2025

PLAT SHEET NO.: LAS-33-32

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

# 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
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LAS-3701-G-02	2 OF 14	D	OVERALL PROJECT SITE PLAN AND BILL OF MATERIALS
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LAS-3701-G-04	4 OF 14	C	CIVIL ABBREVIATIONS AND SYMBOLS
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LAS-3703-C-01	6 OF 14	F	SITE PLAN
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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

**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:**

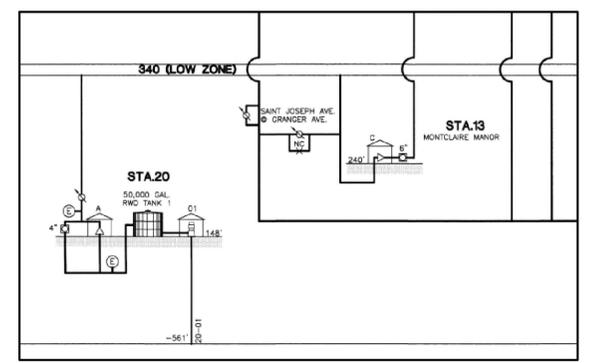
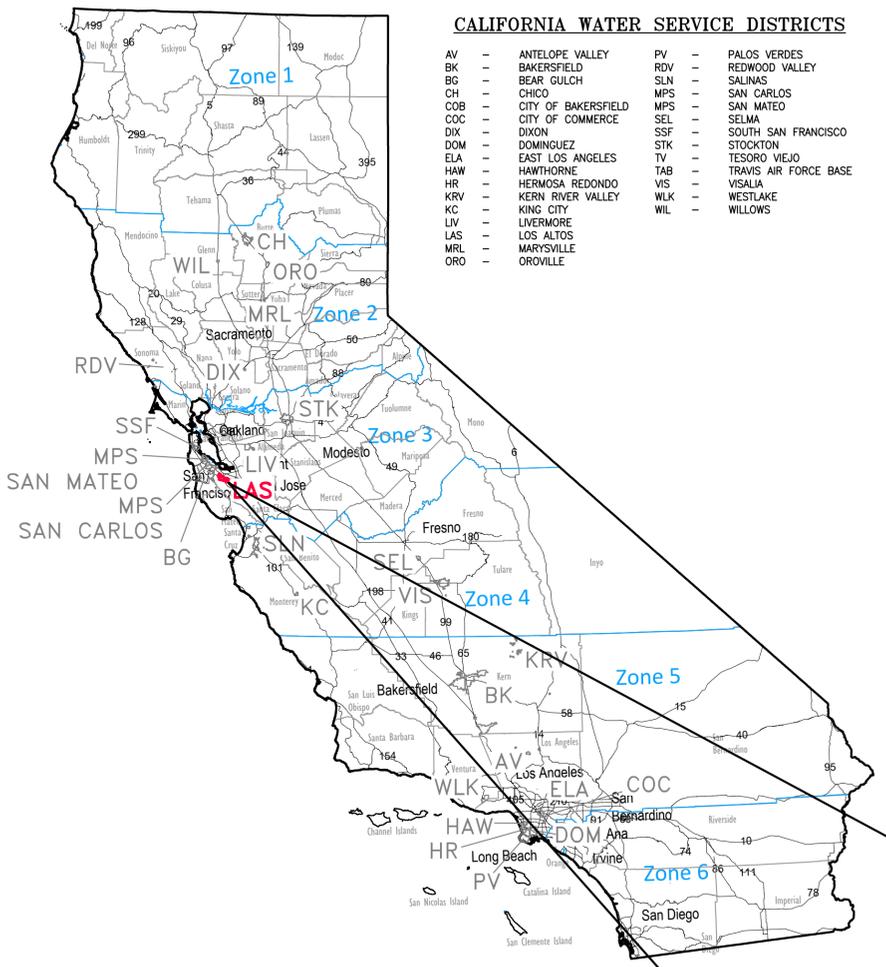
- WELL BLOW-OFF DISCHARGE LINE
- VALVE CAN AND ANY UNDERGROUND FEATURES TO MIN 24" BELOW
- 8" AND 10" PIPES AND ASSOCIATED FITTINGS

**PROPERTY OWNER:**  
CALIFORNIA WATER SERVICE  
1720 N. FIRST STREET  
SAN JOSE, CA 95112

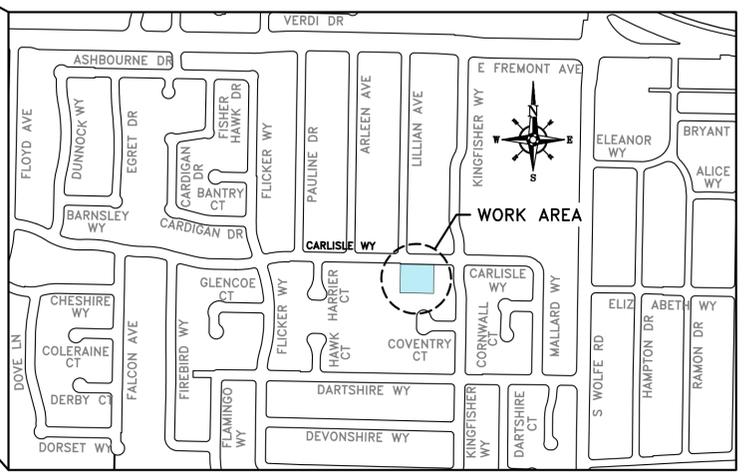
**FIELD YARD ADDRESS:**  
CALIFORNIA WATER SERVICE  
DISTRICT OFFICE  
1555 MIRAMONTE AVE  
LOS ALTOS, CA 94024

**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) 367-6390 EX 78390



OPERATIONAL SCHEMATIC  
N.T.S.



VICINITY MAP  
N.T.S.

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



Know what's below.  
Call before you dig.

VERIFY SCALES  
0 1" = 100'  
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

TITLE: NEW WELL & STEEL BOLTED TANK  
LOS ALTOS, STATION 020, 800 CARLISLE WAY  
SUNNYVALE, CALIFORNIA  
& VICINITY MAP - CIVIL

DISTRICT: LOS ALTOS  
PROJECT ID: 111  
00116020  
DRAWING NO.: LAS-3701-G-01  
SHT 1 OF 14



DEPARTMENT

REVISIONS	SK IZ LMK	01/06/2025	SK IZ LMK	05/12/2015	DC IZ LMK	07/23/2025
ISSUED FOR PERMIT						
REVISED TO INCLUDE ELEVATION						
REVISED PER CITY COMMENTS						

PLAT SHEET NO.:

**LAS-33-32**

SCALE:

**AS SHOWN**

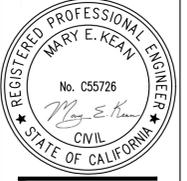
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**L. ZAMUDIO**

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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**

PROJECT ID:  
**111**

DRAWING NO.:  
**00116020**

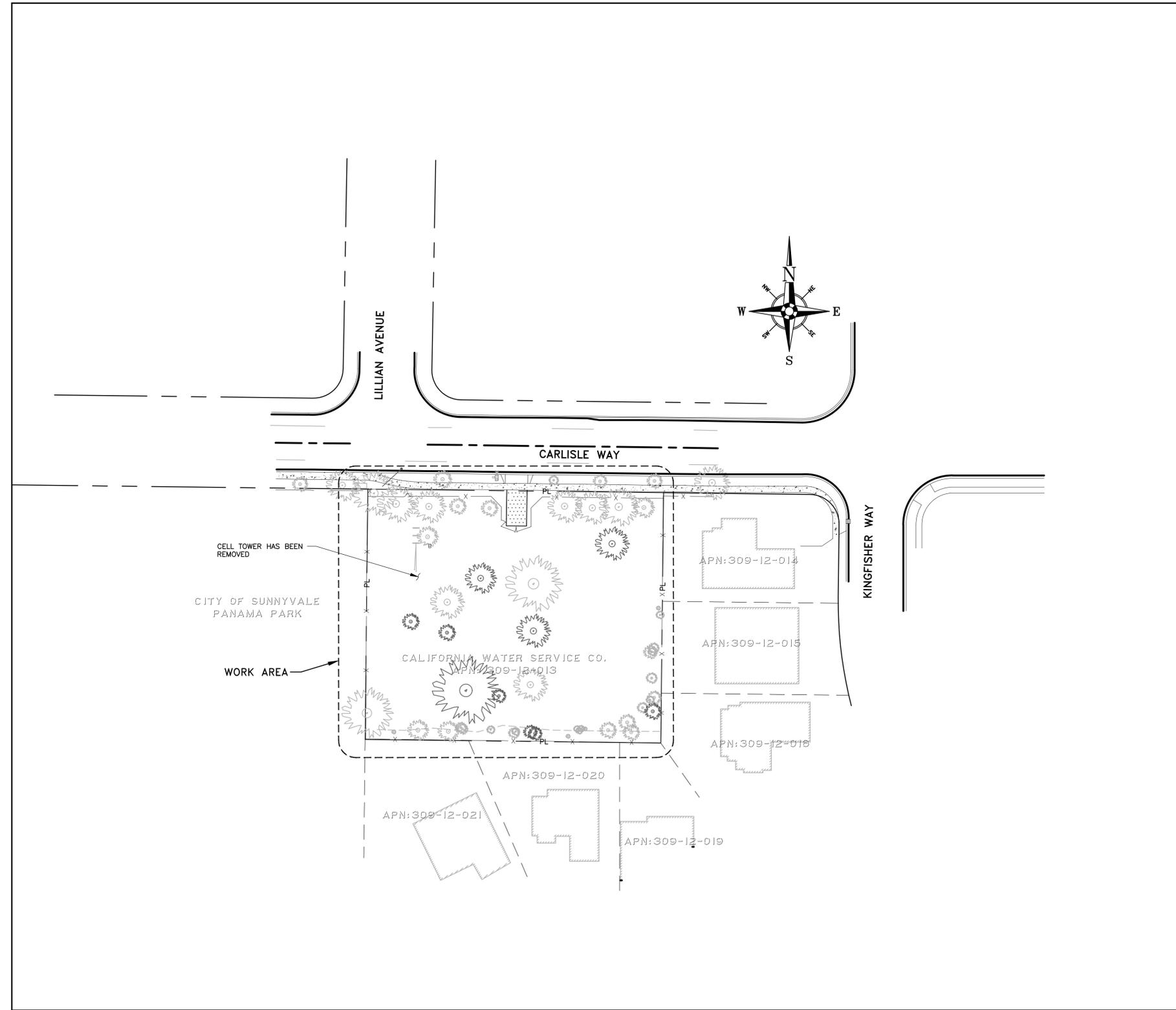
PROJECT ID:  
**00116020**

DRAWING NO.:  
**LAS-3701-G-02**

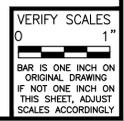
SHEET NO.:  
**2 OF 14**

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



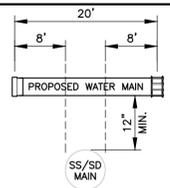
**GENERAL NOTES:**

- 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 3:30 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 LEACH FIELD, 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.
- USE 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, LINQUARD TAPE, CONCRETE FOR THRUST BLOCKS, EMBEDMENT 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 FLAGGING 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, FILED 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.CABMPHANDBOOKS.COM](http://WWW.CABMPHANDBOOKS.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-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 DISCHARGE 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:**

- 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 (MOD).

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

800 Carlisle Way

**ENGINEERING**



**DEPARTMENT**

SK1 LZ LMK	SK1 LZ LMK	SK1 LZ LMK	SK1 LZ LMK
07/06/2022	07/06/2022	05/12/2022	07/23/2022
ISSUED FOR PERMIT	REVISED TO INCLUDE ELEVATION VIEWS	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**



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

DISTRICT:	<b>LOS ALTOS</b>
PROJECT ID:	<b>111</b>
DRAWING NO.:	<b>00116020</b>
PROJECT ID:	<b>LAS-3701-G-03</b>
SHEET:	<b>3 OF 14</b>



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



SK 12/1/2023	SK 12/1/2023	05/12/2023
ISSUED FOR PERMIT	REVISED TO INCLUDE ELEVATION VIEWS	

PLAT SHEET NO.:

LAS-33-32

AS SHOWN

DESIGNED 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  
CIVIL ABBREVIATIONS AND SYMBOLS

DISTRICT:  
LOS ALTOS

PROJECT ID:  
00116020

DRAWING NO.:

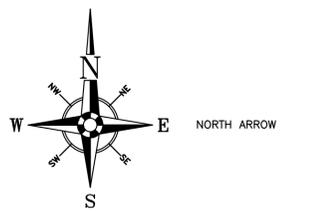
LAS-3701-G-04

SHT 4 OF 14

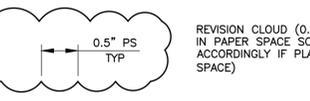
ABBREVIATIONS

AB	AGGREGATE BASE	N	NEW/PROPOSED
ABAND	ABANDONED	N/N	NITROGEN
ABM	AIR BLOWN MORTAR	N/A	NOT APPLICABLE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	NC	NORMALLY CLOSED
AC	ASPHALT CONCRETE	NCS	NATIONAL CAD STANDARD
ACP	ASBESTOS CEMENT PIPE	NE	NORTHEAST
AISI	AMERICAN IRON & STEEL INSTITUTE	NEC	NATIONAL ELECTRICAL CODE
ALIGN	ALIGNMENT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC
AMP	AMPERES	NO	NORMALLY OPEN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NO.	NUMBER
APN	ASSESSORS PARCEL NUMBER	NPT	NATIONAL PIPE THREAD
APPROX	APPROXIMATE	NRS	NON-RISING STEM
ARV	AIR RELEASE VALVE	NTS	NOT TO SCALE
ASA	AMERICAN STANDARD ASSOCIATION	N.T.S.	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	NW	NORTHWEST
AWG	AMERICAN WIRE GAGE		
AWWA	AMERICAN WATER WORKS ASSOCIATION		
		OC	ON CENTER
		O.C.	ON CENTER
		OD	OUTSIDE DIAMETER/DIMENSION
		O.D.	OUTSIDE DIAMETER/DIMENSION
		OF	OUTSIDE FACE
		OH	OVERHEAD
		OHE	OVERHEAD ELECTRIC
		OIL	OIL/PETROLEUM LINE
		OTO	OUT TO OUT (OUTSIDE DIA)
		OW	OBSERVATION WELL
		PBC	PORTABLE BOOSTER CONNECTION
		PBE	PLAIN BOTH ENDS
		PCC	PORTLAND CEMENT CONCRETE
		PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
		PE	PLAIN END
		PG&E	PACIFIC GAS AND ELECTRIC
		PI	POINT OF INTERSECTION
		PK	PARKER-KALON SURVEY NAIL
		PL	PLASTIC LINE
		PL	PROPERTY LINE
		PO	PUSH-ON
		POE	PLAIN ONE END
		POT	POINT ON TANGENT
		PPC	POWER POLE
		PRC	POINT OF REVERSE CURVE
		PRV	PRESSURE REDUCING VALVE
		PRV	PRESSURE RELIEF VALVE
		PSI	POUND PER SQUARE INCH
		PT&T	PACIFIC TELEPHONE AND TELEGRAPH
		PUE	PUBLIC UTILITY EASEMENT
		PV	PRECAST VAULT
		PVC	POLYVINYL CHLORIDE (PIPE)
		PVMT	PAVEMENT
		PW	PUMPING WELL
		R	RADIUS
		RCB	REINFORCED CONCRETE BOX
		RCP	REINFORCED CONCRETE PIPE
		RE	REDUCER
		RE	REFERENCE ELECTRODE
		REBAR	REINFORCING BAR
		REIN	REINFORCED
		REQ'D	REQUIRED
		RR	RAILROAD
		RRT	RAILROAD TIES
		RT	RIGHT
		RTU	REMOTE TERMINAL UNIT
		R/W	RIGHT OF WAY
		S	SLOPE
		SCHED	SCHEDULE
		SCOWD	SANTA CLARA VALLEY WATER DISTRICT
		SD	STORM DRAIN
		SDMH	STORM DRAIN MANHOLE
		SE	SOUTHEAST
		SE	SQUARE FEET
		SHT	SHEET
		SJMW	SAN JOSE MUNICIPAL WATER
		SJWC	SAN JOSE WATER COMPANY
		SOMCL	STANDARD OIL MASTIC CEMENT LINED
		SPECS	SPECIFICATIONS
		SPRR	SOUTHERN PACIFIC RAILROAD
		SQ	SQUARE
		SQ FT	SQUARE FEET
		SOW	SLIP-ON WELD FLANGE
		SS	SANITARY SEWER
		SSMH	SANITARY SEWER MANHOLE
		SSTL	STAINLESS STEEL
		ST	STREET
		STA	STATION
		STD	STANDARD
		STD BLK	STANDARD STEEL PIPE
		STL	STEEL
		STRD	STRANDED
		SUM	SUBSURFACE UTILITY MAPPING
		SW	SOUTHWEST
		SYM	SYMMETRICAL
		T	TELEPHONE
		T	THICKNESS OF PLATE OR DIMENSION OF WELD
		TBM	TEMPORARY BENCH MARK
		TC	TELEMETRY CABLE
		TCA	TEMPORARY CONSTRUCTION AREA
		TCE	TEMPORARY CONSTRUCTION EASEMENT
		TCS	TELEMETRY CABLE SPLICE
		TDH	TOTAL DYNAMIC HEAD
		TEL	TELEPHONE
		THW	THERMAL PLASTIC MOISTURE AND HEAT RESISTANT
		THWN	THERMAL PLASTIC WITH NYLON COATING
		TOB	MOISTURE AND HEAT RESISTANT
		TOC	TOP OF CURB
		TOE	TOP OF SLOPE
		TON	TOP OF NUT
		TOS	TOP OF SLOPE
		TP	TEST PIT LOCATION
		TR	TAPE WRAPPED
		TS	TRAFFIC SIGNAL
		TYP	TYPICAL
		UG	UNDERGROUND
		UMC	UNIFORM MECHANICAL CODE
		UPC	UNIFORM PLUMBING CODE
		UPRR	UNION PACIFIC RAILROAD
		U/S	UPSTREAM
		USGS	UNITED STATES GEOLOGICAL SURVEY
		V	VOLTAGE
		VAC	VOLTAGE ALTERNATING CURRENT
		VBE	VICTAULIC BOTH ENDS
		VCD	VACANT CONDUIT
		VCP	VITRIFIED CLAY PIPE
		VIF	VERIFY IN FIELD
		VERT	VERTICAL
		VOE	VICTAULIC ON END
		VOL	VOLUME
		W	WATER
		W	WIDTH
		WP	WORK POINT
		WSP	WELDED STEEL PIPE

CAL WATER BLOCKS



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)		

SYMBOLS LEGEND

EXISTING	PIPELINE	PROPOSED
	AIR RELIEF VALVE	
	ALTITUDE VALVE	
	BLOWOFF	
	BUTTERFLY VALVE	
	BYPASS VALVE	
	CHECK VALVE	
	CHLORINE	
	CLEANOUT	
	CONTROL VALVE	
	COUPLING - FLEX	
	COUPLING - FLEX	
	COUPLING - PVC CLOSURE	
	COUPLING - SOLID SLEEVE	
	FLEX EXPANSION JOINT	
	FLEX-TEND EXPANSION JOINT	
	FLOW METER/MAG METER	
	GATE VALVE	
	GATE VALVE NORMALLY CLOSED	
	HYDRANT	
	ORIFICE PLATE	
	PIPE CAP	
	PIPE CROSS	
	PIPE ELBOW - 11.25'	
	PIPE ELBOW - 22.5'	
	PIPE ELBOW - 45'	
	PIPE ELBOW - 90'	
	PIPE TEE	
	PLUG	
	PORTABLE BOOSTER CONNECTION	
	PRESSURE REDUCING/RELIEF VALVE	
	REDUCER	
	STATIC MIXER	
	SURGE VALVE	
	TERMINATION	
	WATER QUALITY TAP	
	WELL	
	SITE PLAN	
	BOLLARD	
	CATCH BASIN	
	LIGHT POLE	
	POWER POLE W/ XFMR	
	POWER POLE W/O XFMR	
	SINGLE POST SIGN	
	TREES	
	WATER METER	
	TREES	

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

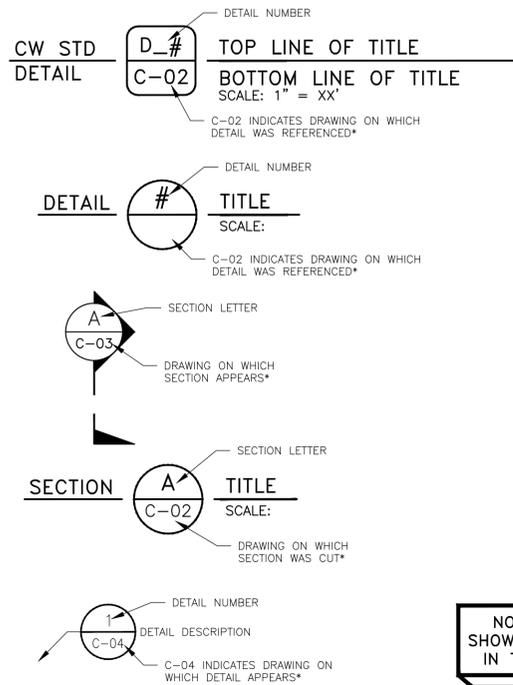
MON#	DESCRIPTION
MXXX	EXAMPLE ONLY
MXXX	EXAMPLE ONLY

LINETYPE LEGEND

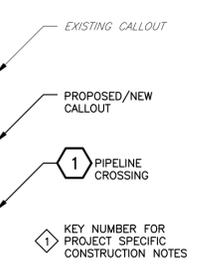
EXISTING	PROPOSED
	BLOCK WALL
	BUILDING
	CCTV
	CONCRETE
	DEMOLITION
	ABANDONED
	CONTOURS - MAJOR
	CONTOURS - MINOR
	EASEMENT
	ELEC CONDUIT
	ELEC EQUIPMENT
	ELEC OVERHEAD LINES
	ELEC UNDERGROUND
	ELEC WIRES
	FENCE - BARBED WIRE
	FENCE - ALUMINUM
	FENCE - CHAIN LINK
	FENCE - PRIVACY
	FENCE - WOOD
	FENCE - WROUGHT IRON
	FIBER OPTIC LINE
	FIRE SERVICE LINE
	GRADE BREAKLINES
	NATURAL GAS UNDERGROUND
	PROPERTY LINE
	RAILROAD TRACK
	RIGHT-OF-WAY
	ROAD - CENTERLINE
	SS PIPE
	SS REINFORCED PIPE
	SLOPE
	SD PIPE
	SD REINFORCED PIPE
	STRUCTURE
	TANK
	TELEPHONE
	TOE OF SLOPE
	TOP OF SLOPE
	TRAFFIC STRIPE
	WATER LINE
	WATER LINE - CENTERLINE

DETAIL AND SECTION DESIGNATION

\* IF SECTION OR DETAIL APPEARS ON THE SAME DRAWING AS THE CALLOUT, THE DRAWING REFERENCE IS REPLACED WITH A DASH (-)



CALLOUTS



NOT ALL ITEMS SHOWN WILL APPEAR IN THIS PACKAGE

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



DEPARTMENT

REVISIONS	SK	LZ	LMK
ISSUED FOR PERMIT	07/06/2025	SK	LZ
REVISED TO INCLUDE ELEVATION VIEWS	05/12/2025	DC	LZ
REVISED PER CITY COMMENTS	07/23/2025	DC	LZ

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**

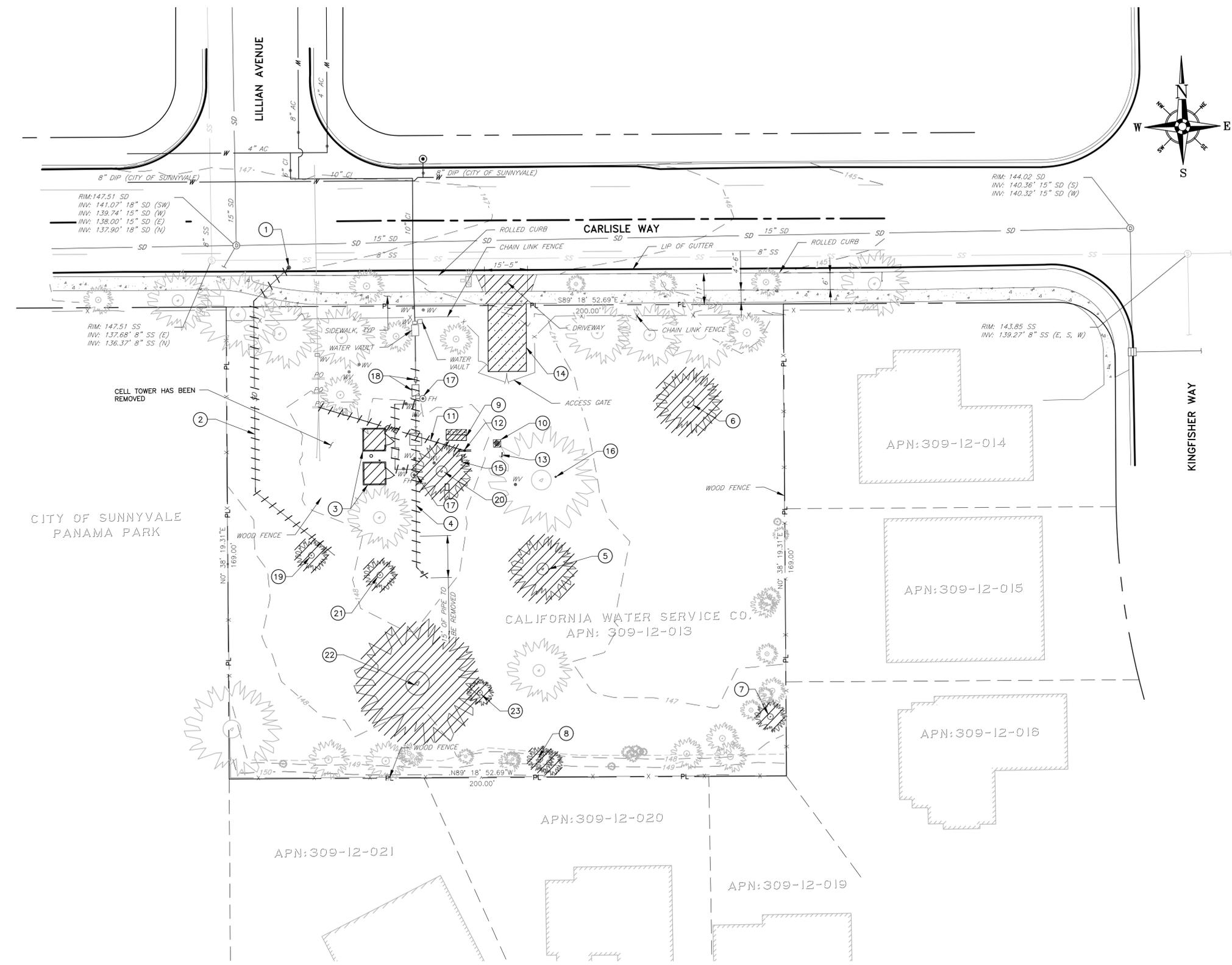
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**00116020**

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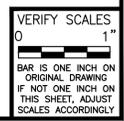
**LAS-3702-D-01**

SHT 5 OF 14



- DEMOLITION NOTES:**
- 1 REMOVE EXISTING VALVE CANS AND ANY UNDERGROUND FEATURES TO MIN 24" BELOW GRADE
  - 2 ABANDON IN PLACE EXISTING STORM DRAIN PIPE
  - 3 CHEMICAL BUILDINGS TO BE REMOVED
  - 4 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.
  - 5 EUCALYPTUS TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
  - 6 PEPPER TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
  - 7 OLIVE TREE TO BE REMOVED PER ARBORIST RECOMMENDATION
  - 8 SOUTHERN LIVE OAK TO BE REMOVED PER ARBORIST RECOMMENDATION
  - 9 PANELBOARD AND CONCRETE BASE TO BE REMOVED
  - 10 DESTROYED WELL (SHOWN FOR INFORMATION PURPOSE)
  - 11 OVERHANG LINES BASE TO BE REMOVED
  - 12 10" BRACE TO BE REMOVED
  - 13 PANEL ON POSTS TO BE REMOVED
  - 14 DRIVE ENTRANCE TO BE REMOVED
  - 15 PANEL ON POSTS TO BE REMOVED
  - 16 I-BEAM TO BE REMOVED
  - 17 REMOVE EXISTING FIRE HYDRANT
  - 18 REMOVE EXISTING VAULTS
  - 19 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
  - 20 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
  - 21 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION
  - 22 RED FLOWERING EUCALYPTUS TO BE REMOVED FOR CONSTRUCTION
  - 23 DEODAR CEDAR TO BE REMOVED FOR CONSTRUCTION

**DEMOLITION PLAN**  
SCALE: 1"=20'



USERNAME: Skarogiou, 12/4/2025 4:24 PM  
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DEPARTMENT

REVISIONS	SK IZ LMK	DATE	COMMENTS
1	SK IZ LMK	12/02/2022	REVISED PER CITY COMMENTS
2	SK IZ LMK	08/27/2022	REVISED PER CITY COMMENTS
3	SK IZ LMK	07/23/2022	REVISED PER CITY COMMENTS

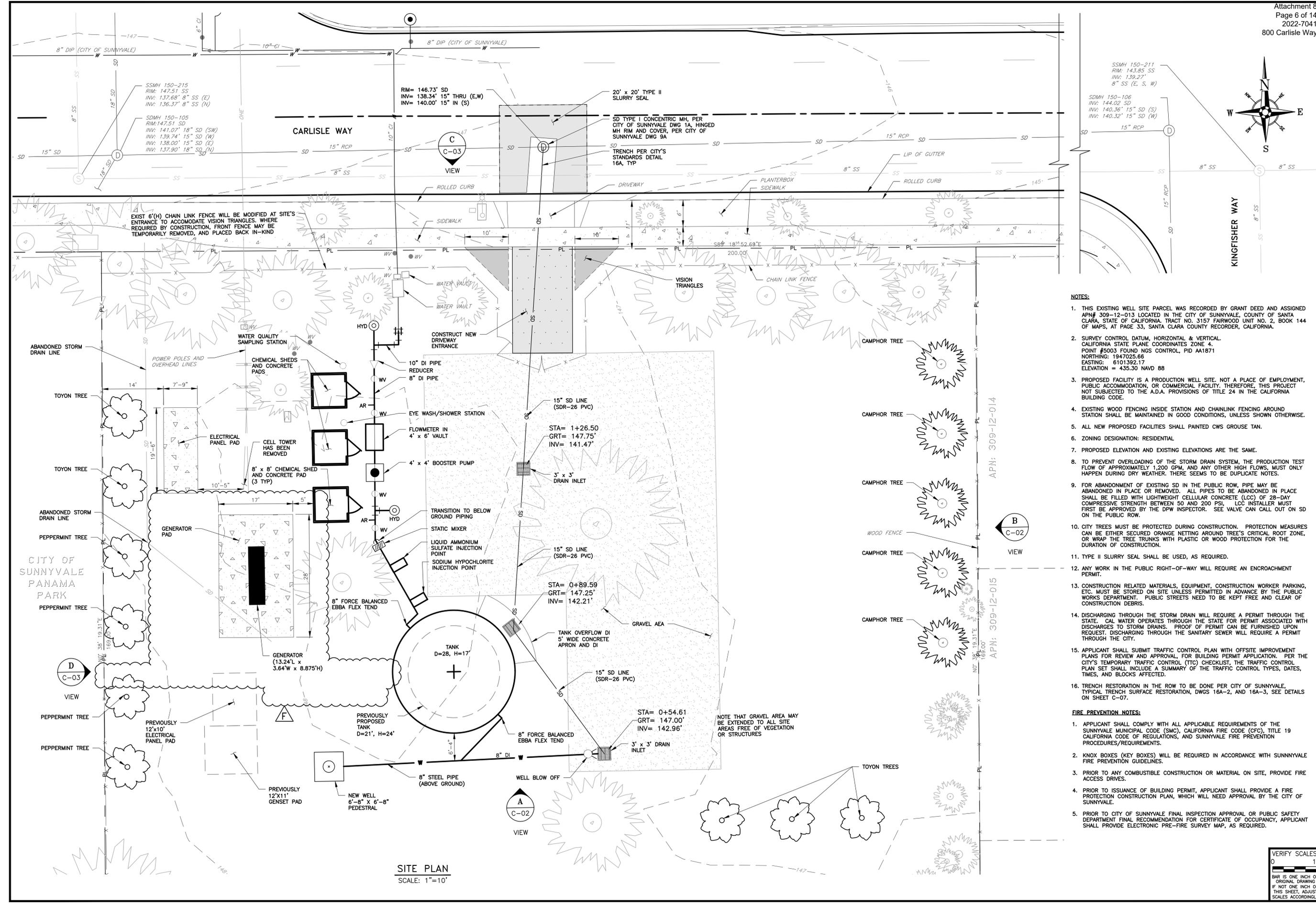
PLAT SHEET NO.: LAS-33-32

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

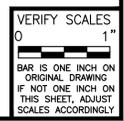


TITLE: NEW WELL & STEEL BOLTED TANK  
LOS ALTOS, STATION 020, 800 CARLISLE WAY  
SUNNYVALE, CALIFORNIA  
SITE PLAN

DISTRICT: LOS ALTOS  
PROJECT ID: 00116020  
DRAWING NO.: LAS-3703-C-01  
SHT 6 OF 14



**SITE PLAN**  
SCALE: 1"=10'



USER: Skarogiou, 12/14/2025 4:24 PM  
FILE: G:\Capital\_Projects\CAO\_TEAM\_FILES\111\_Loc\_Mitosa\00116020\_Sig20\_New\_Well\_Replacement\WP\_LAS-3703-C-01.dwg



DEPARTMENT

REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS
SK LZ LMK 12/02/2022	DC LZ LMK 06/12/2025	SK LZ LMK 07/23/2025
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

01/06/25



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

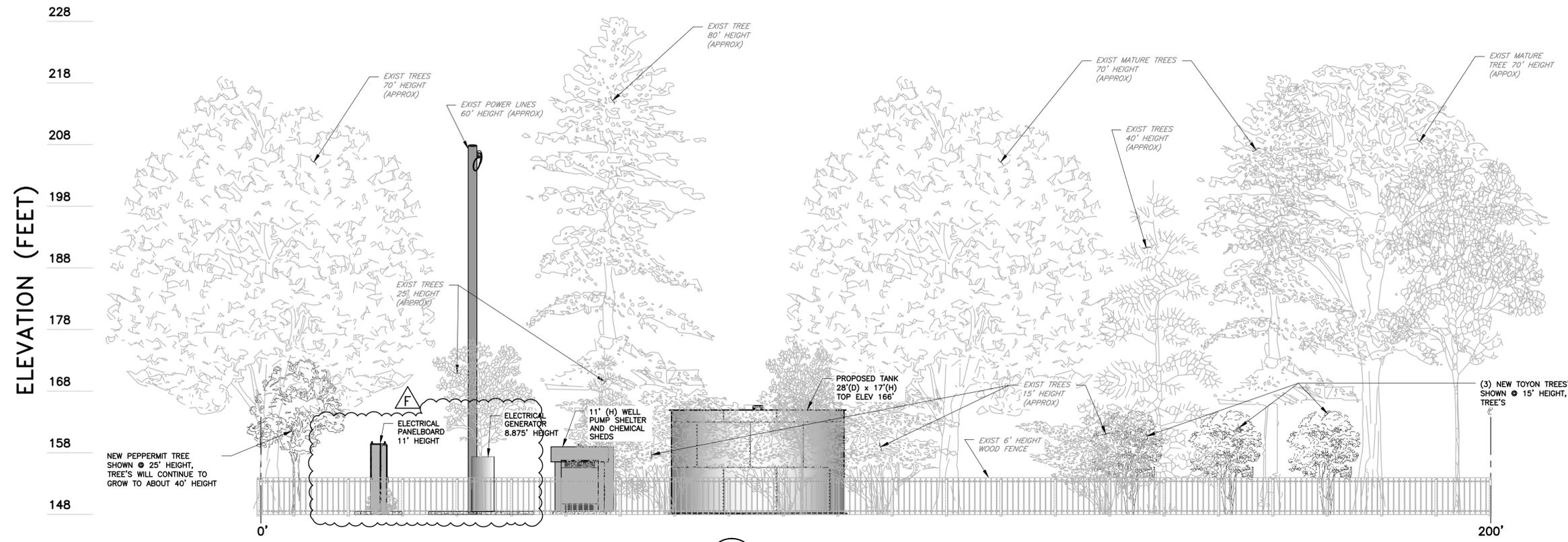
DISTRICT:  
LOS ALTOS

PROJECT ID:  
111

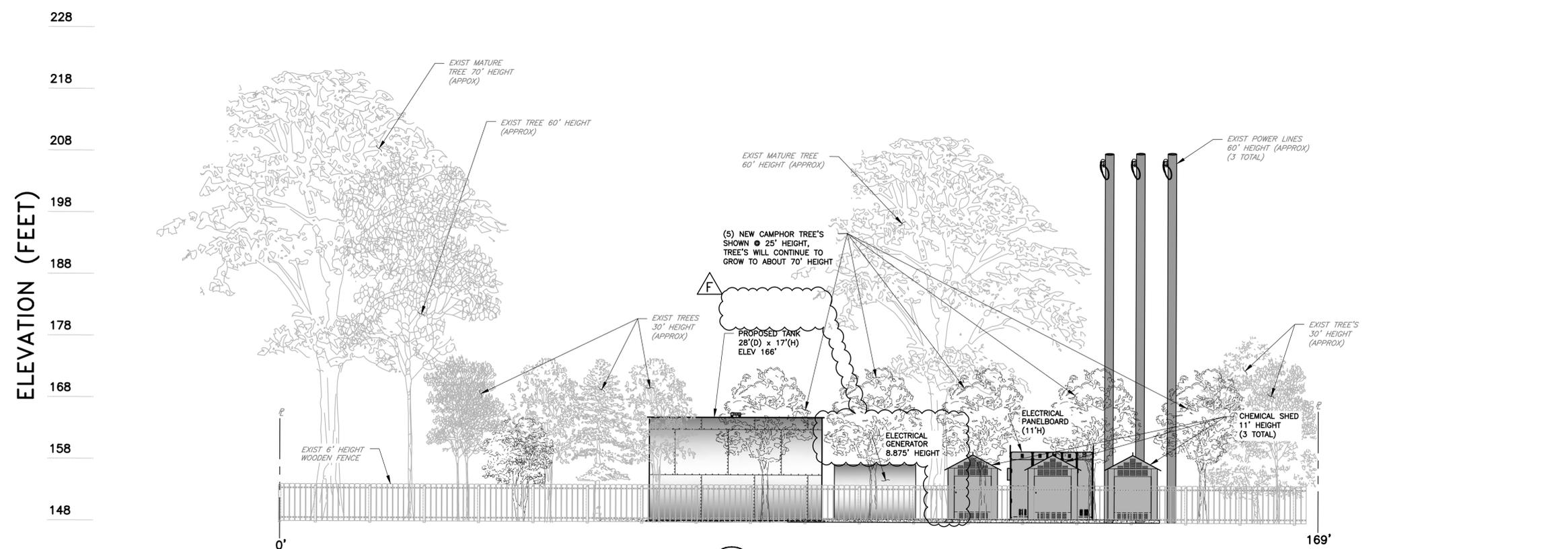
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LAS-3703-C-02

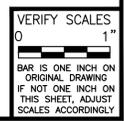
SHT 7 OF 14



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



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





DEPARTMENT

REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	NEW SHEET TO INCLUDE ELEVATION VIEWS
SK LZ LMK 12/02/2022	SK LZ LMK 06/12/2022	SK LZ LMK 07/23/2025

PLAT SHEET NO.: LAS-33-32

SCALE: AS SHOWN

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

DESIGNED BY: L. ZAMUDIO

TECH REVIEW: DATE: 05/12/25

CHECKED BY: DATE: 05/12/25

APPROVED BY: DATE: 05/12/25

Mary E. Kean 05/12/25



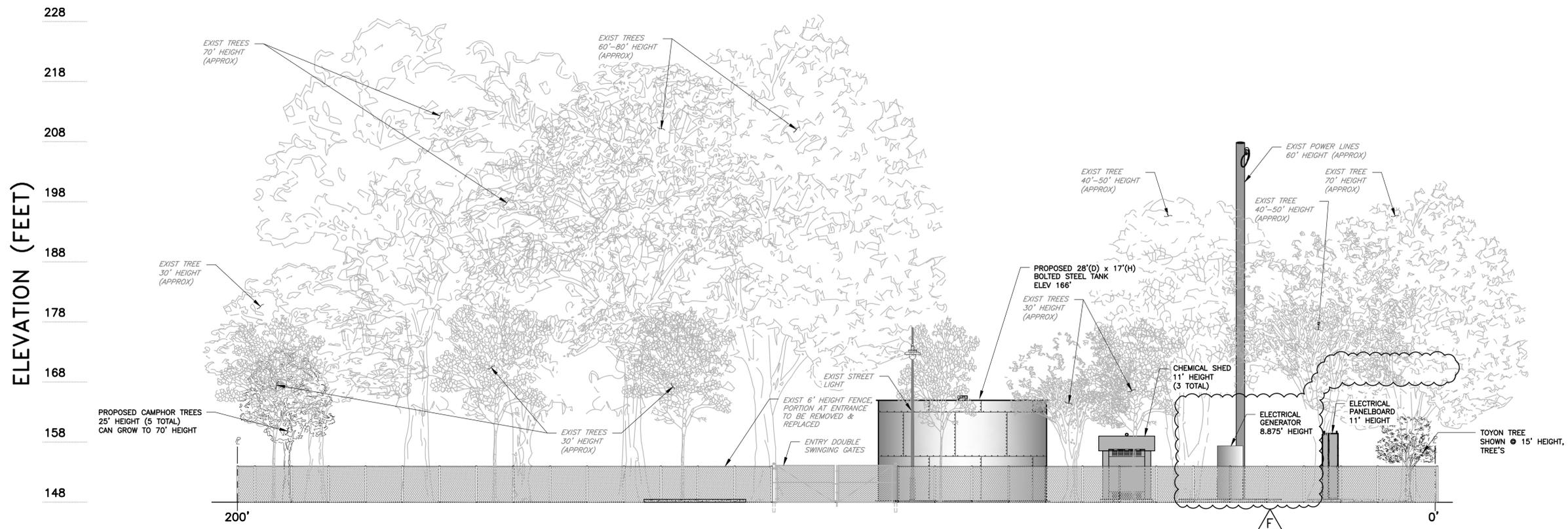
TITLE: NEW WELL & STEEL BOLTED TANK  
LOS ALTOS, STATION 020, 800 CARLISLE WAY  
SUNNYVALE, CALIFORNIA  
SITE ELEVATIONS

DISTRICT: LOS ALTOS

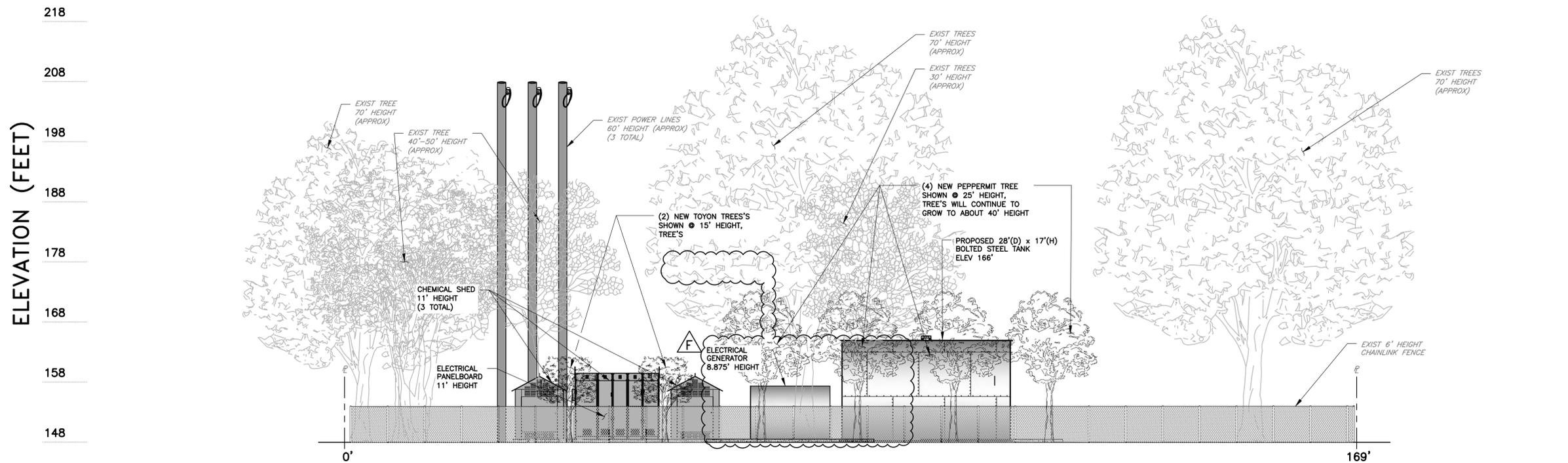
PROJECT ID: 111

DRAWING NO.: 00116020

SHT 8 OF 14



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



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

VERIFY SCALES  
0 1" = 10'  
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



DEPARTMENT

REVISIONS	SK	LZ	LML
REVISED PER CITY COMMENTS	06	02	2022
REVISED PER CITY COMMENTS	07	23	2025
REVISED TO INCLUDE ELEVATION VIEWS	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

REGISTERED PROFESSIONAL ENGINEER



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

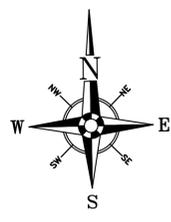
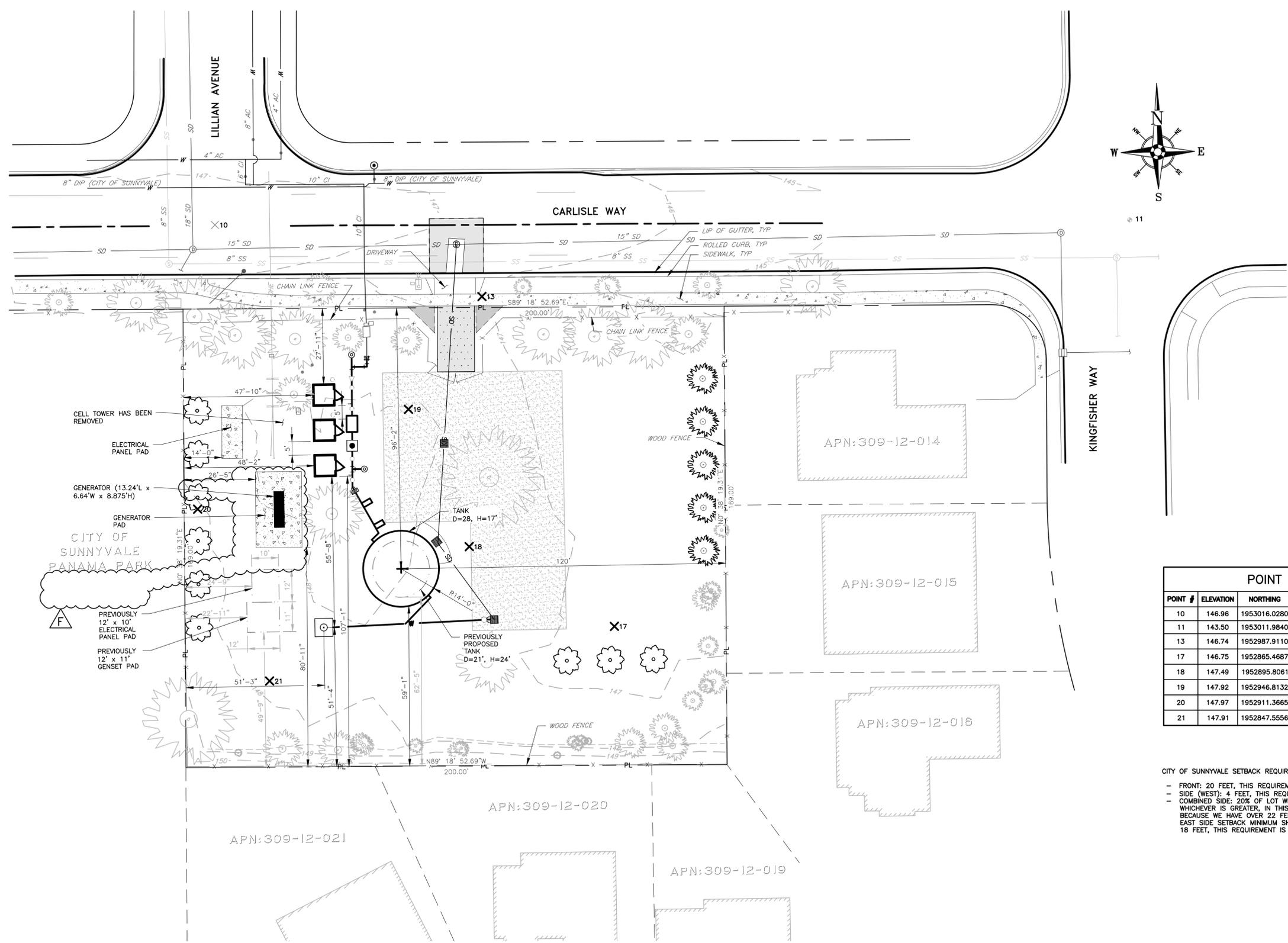
DISTRICT: LOS ALTOS

PROJECT ID: 111

DRAWING NO.: 00116020

SHEET NO.: LAS-3703-C-04

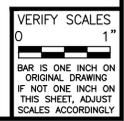
SHT 9 OF 14



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

SCALE: 1"=20'



USERNAME: Sitaroglu, 12/4/2025 4:25 PM  
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DEPARTMENT

REVISONS	SK	LZ	LMK	DATE	COMMENTS
1				02/02/2022	REVISED PER CITY COMMENTS
2				02/11/2022	REVISED PER CITY COMMENTS
3				07/23/2022	REVISED TO INCLUDE ELEVATION VIEWS
4				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:

*[Signature]* 01/06/25

CHECKED BY: DATE:

*[Signature]* 01/06/25

APPROVED BY: DATE:

*[Signature]* 01/06/25



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

DISTRICT:  
**LOS ALTOS**

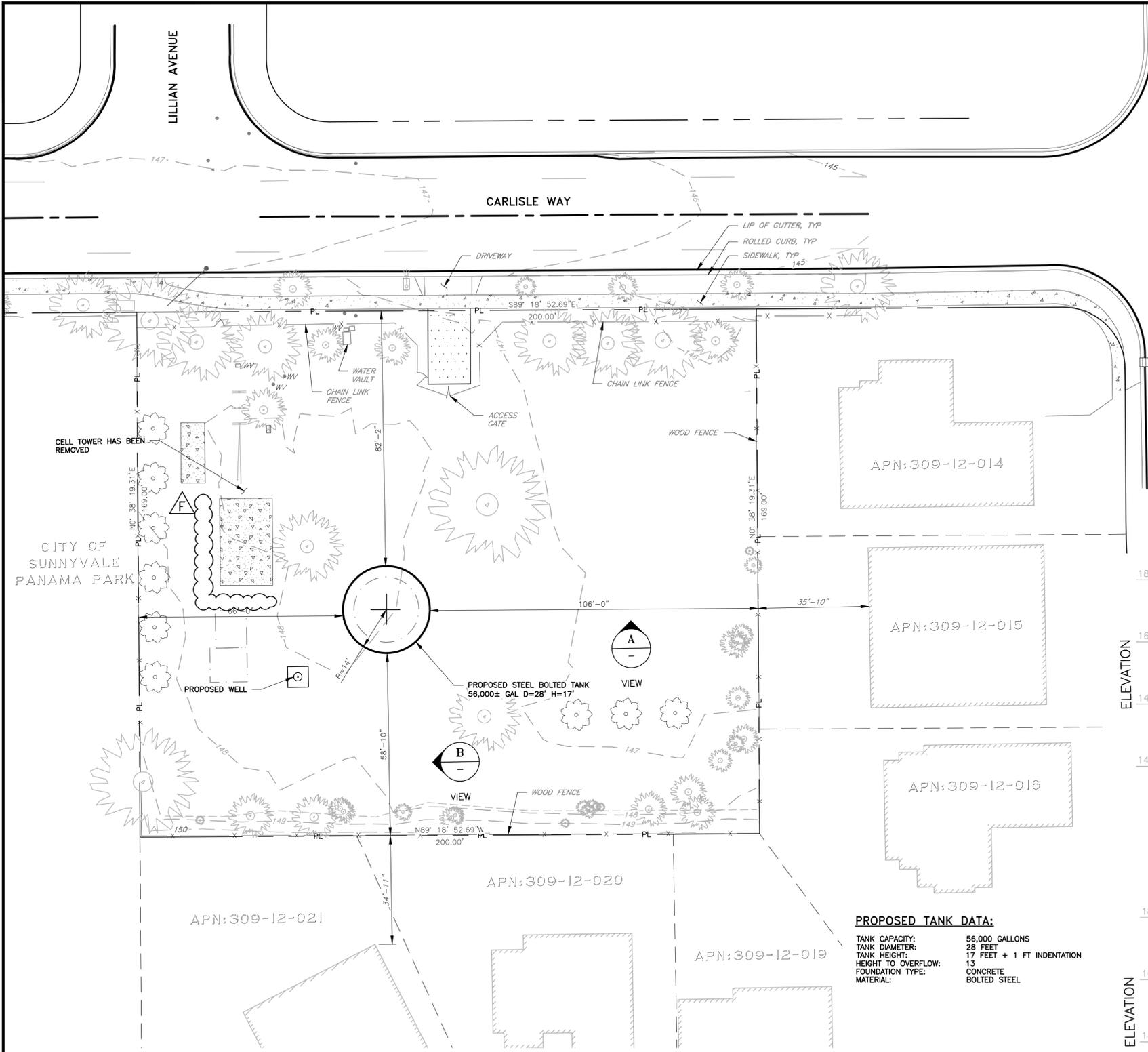
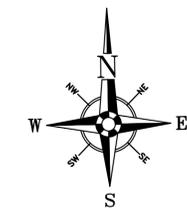
PROJECT ID:

**00116020**

DRAWING NO.:

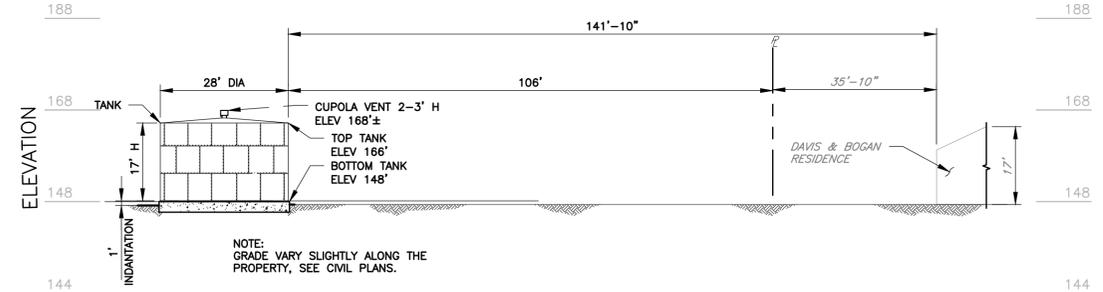
**LAS-3703-C-05**

SHT 10 OF 14

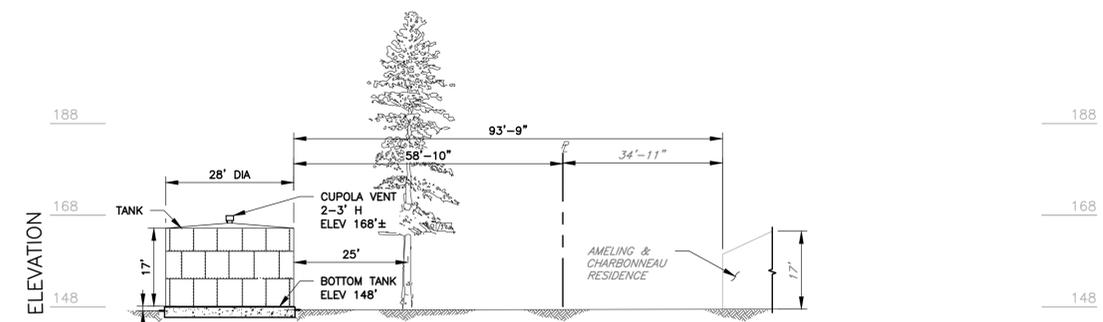


**TANK LOCATION PLAN**  
SCALE: 1"=20'

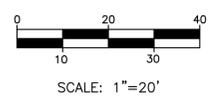
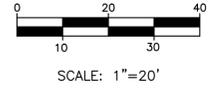
**PROPOSED TANK DATA:**  
TANK CAPACITY: 56,000 GALLONS  
TANK DIAMETER: 28 FEET  
TANK HEIGHT: 17 FEET + 1 FT INDENTATION  
HEIGHT TO OVERFLOW: 13  
FOUNDATION TYPE: CONCRETE  
MATERIAL: BOLTED STEEL



**VIEW A NORTH ELEVATION**  
SCALE: 1"=20'



**VIEW B WEST ELEVATION**  
SCALE: 1"=20'



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



DEPARTMENT

REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS	REVISED TO INCLUDE ELEVATION VIEWS
DC LZ LMK 08/27/2025	DC LZ LMK 07/23/2025	SK LZ LMK 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

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  
PLAN AND PROFILE  
15" Ø SD STA 0+50 TO 2+00

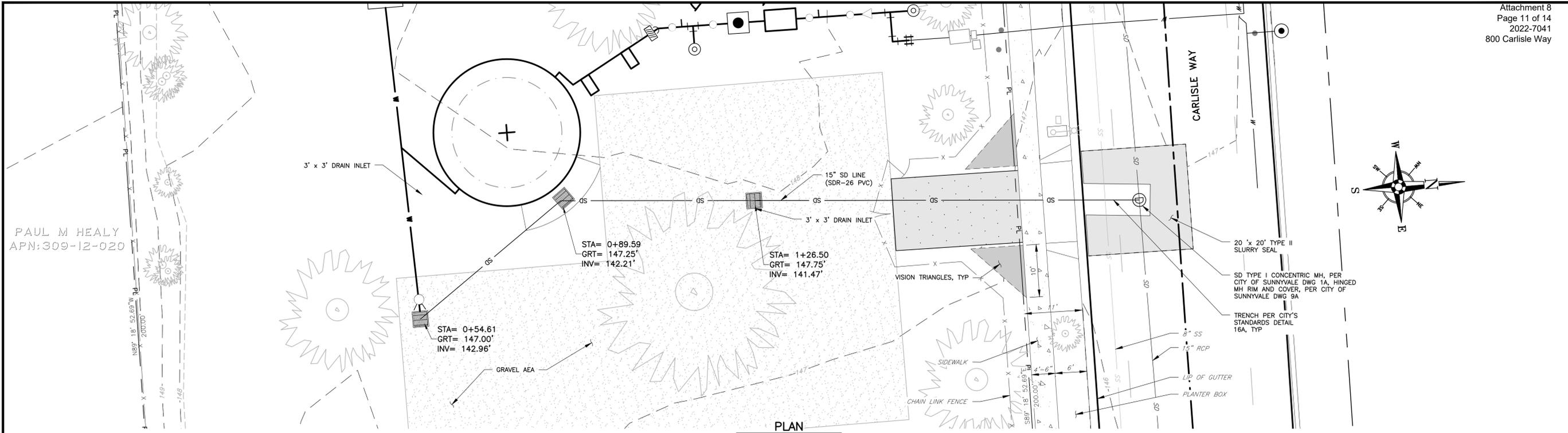
DISTRICT:  
LOS ALTOS

PROJECT ID:  
111

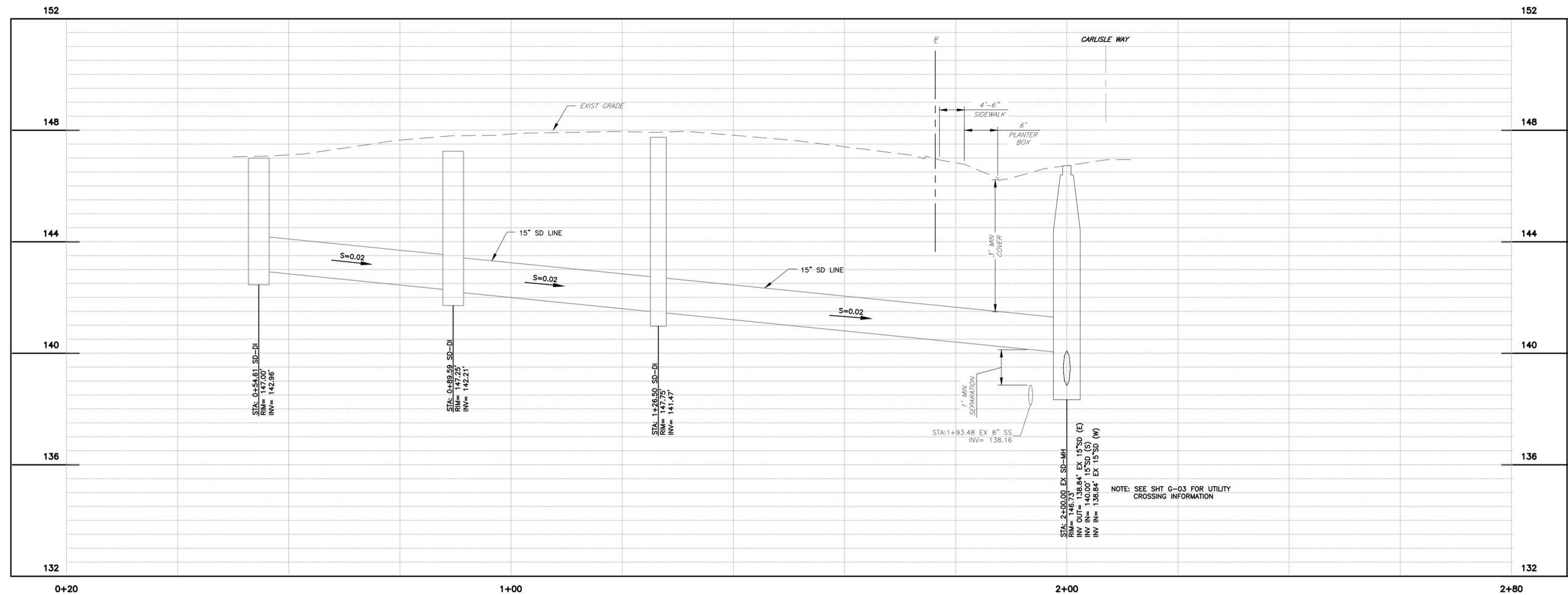
DRAWING NO.:  
00116020

DRAWING NO.:  
LAS-3703-C-06

SHT 11 OF 14



PLAN  
SCALE: 1" = 10'



PROFILE  
HORIZ: 1" = 10'  
VERT: 1" = 2'

VERIFY SCALES  
1" = 10'  
1" = 2'



DEPARTMENT

REVISIONS	DATE	BY	COMMENTS
SK 12/1/06	12/1/06	SK	ISSUED FOR PERMIT
SK 01/06/2009	01/06/2009	SK	REVISED TO INCLUDE ELEVATION VIEWS
SK 05/12/2023	05/12/2023	SK	REVISED PER CITY COMMENTS
BC 07/23/2025	07/23/2025	BC	REVISED PER CITY COMMENTS

PLAT SHEET NO.: LAS-33-32

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  
DETAILS - I

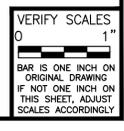
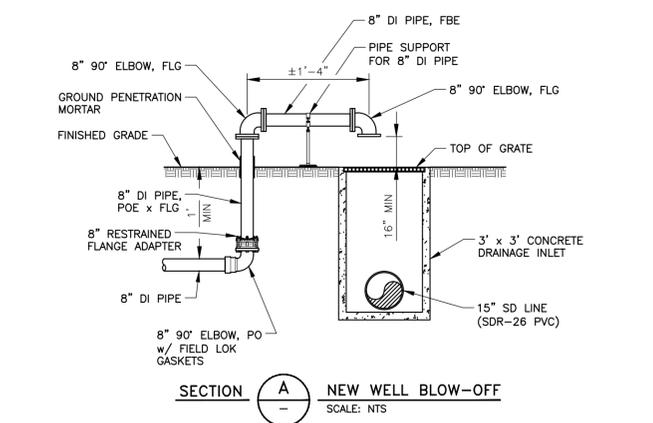
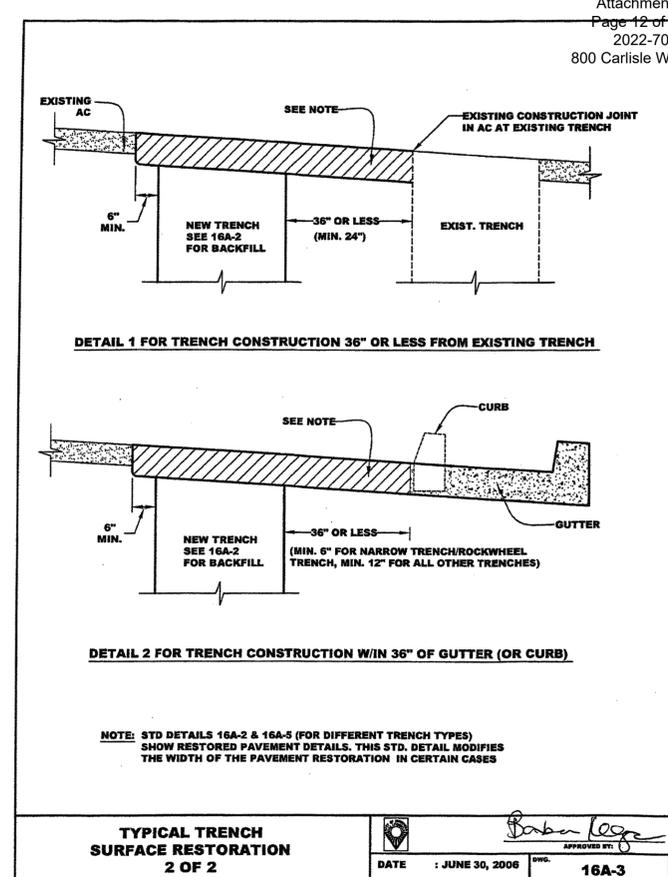
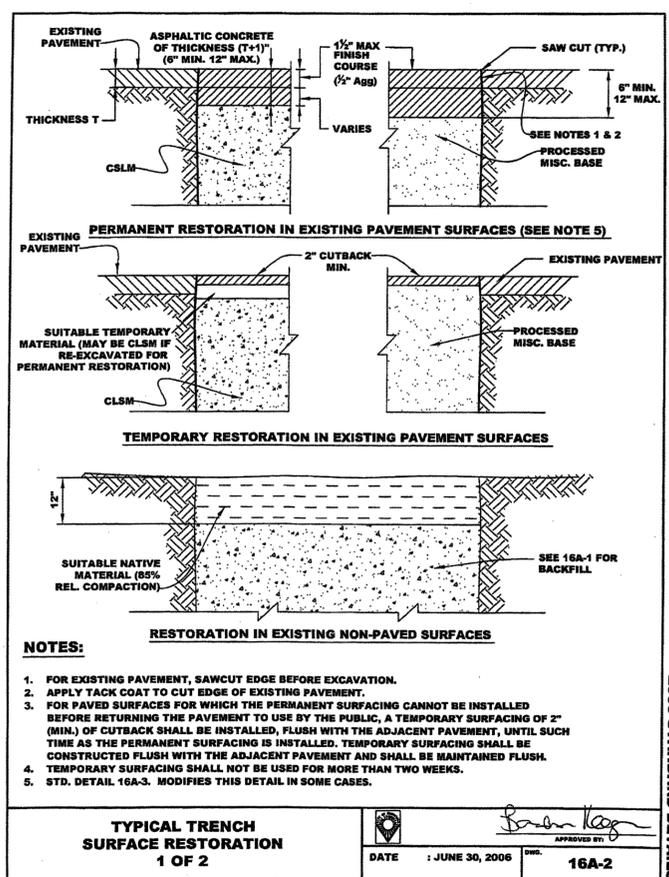
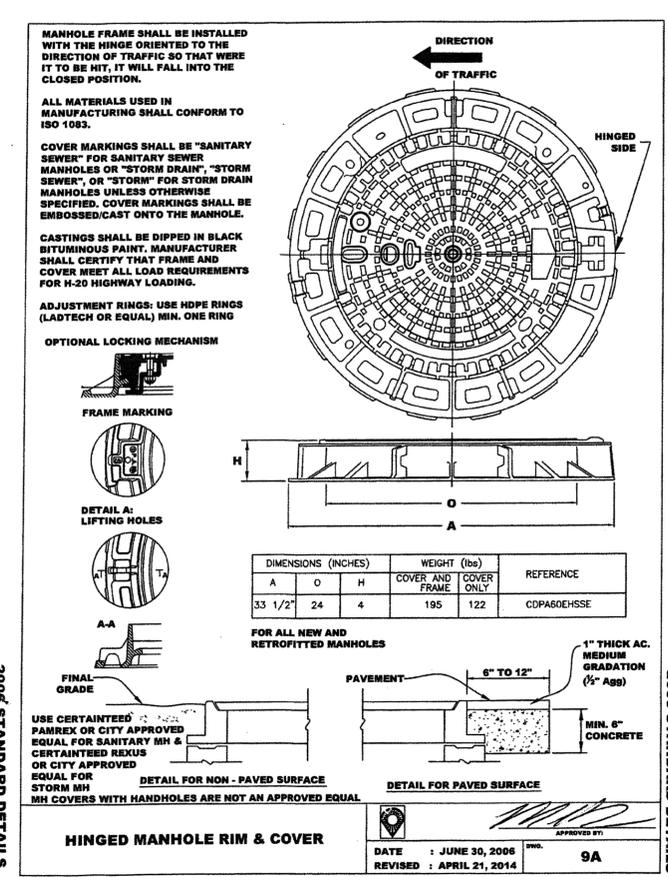
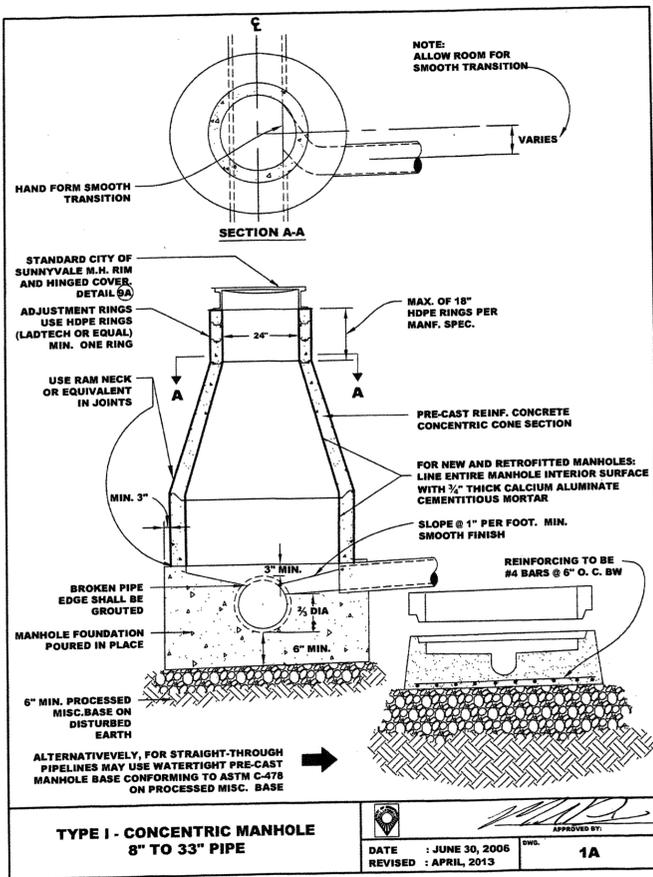
DISTRICT: LOS ALTOS

PROJECT ID: 111

DRAWING NO.: 00116020

DRAWING NO.: LAS-3703-C-07

SHT 12 OF 14





DEPARTMENT

REVISIONS	SK1 LZ LMK	01/06/2025	SK1 LZ LMK	05/12/2025	DC LZ LMK	07/23/2025
ISSUED FOR PERMIT						
REVISED TO INCLUDE ELEVATION VIEWS						
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

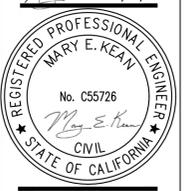
CHECKED BY: DATE:

01/06/25

APPROVED BY: DATE:

01/06/25

01/06/25



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

DISTRICT:  
LOS ALTOS

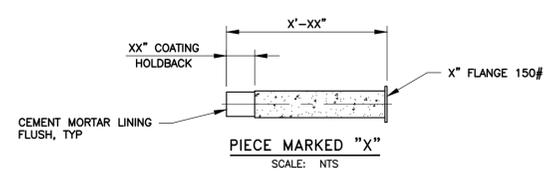
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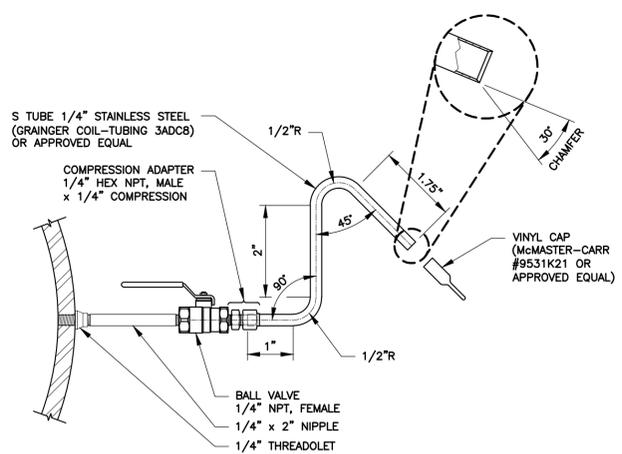
SHT 13 OF 14



PIECE MARKED	QTY	PIPE		
		STEEL CYL (OD)	SCH	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"

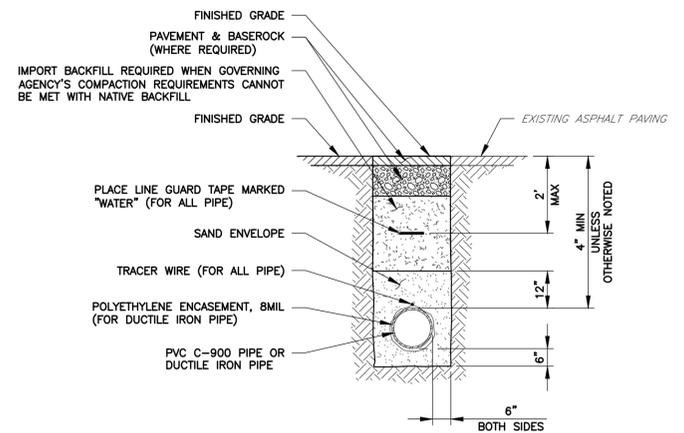
CEMENT MORTAR LINING, CML  
CEMENT MORTAR COATING, CMC

CWS STD 1.1-6 CL&C FABRICATION DETAIL  
DETAIL - SCALE: NTS



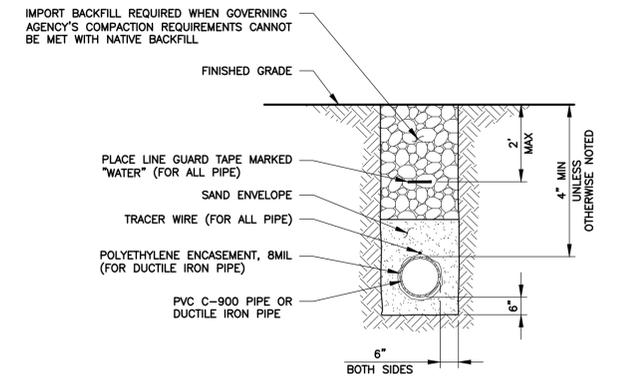
NOTE:  
1. THE NIPPLE SHALL BE BRASS CLASS 150, MINIMUM OR STAINLESS STEEL SCHEDULE 40.

CWS STD 1.1-7 SAMPLE TAP  
DETAIL - SCALE: NTS



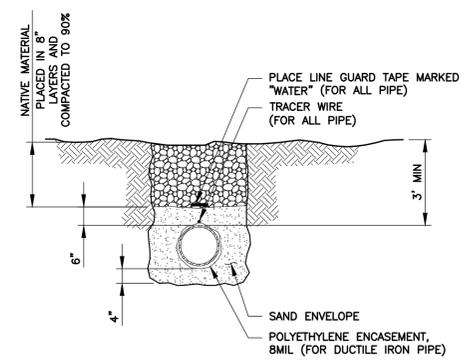
NOTES:  
1. ALL EXCESS SPOIL "IN TRACT" IS TO REMAIN TRENCHSIDE AND ALL EXCESS SPOIL "OFF TRACT" IS TO BE REMOVED.  
2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

CWS STD 1.3-1 TRENCH CROSS SECTION  
DETAIL - SCALE: NTS

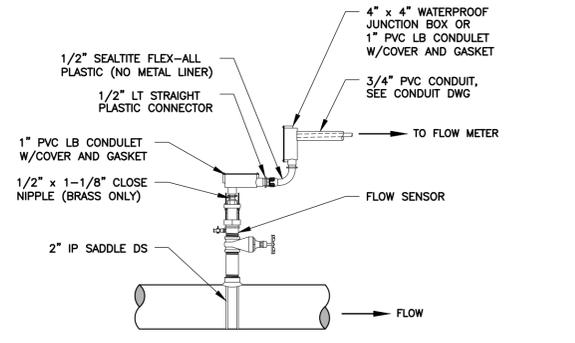


NOTES:  
1. ALL EXCESS SPOIL "IN TRACT" IS TO REMAIN TRENCHSIDE AND ALL EXCESS SPOIL "OFF TRACT" IS TO BE REMOVED.  
2. ALL VALVE CASINGS AND COVERS SHALL BE RAISED TO FINISHED GRADE AFTER PERMANENT PAVEMENT HAS BEEN PLACED.

CWS STD 1-3-3 TRENCH CROSS SECTION  
DETAIL - SCALE: NTS

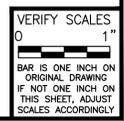


CWS STD 1-3-4 ON-SITE TRENCH DETAIL  
DETAIL - SCALE: NTS



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

CWS STD 2.1-2 FLOW SENSOR DETAIL  
DETAIL - SCALE: NTS





DEPARTMENT

REVISIONS	DATE	DESCRIPTION
1	01/06/2025	ISSUED FOR PERMIT
2	01/06/2025	REVISED TO INCLUDE ELEVATION VIEWS
3	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

MARY E. KEAN 01/06/25



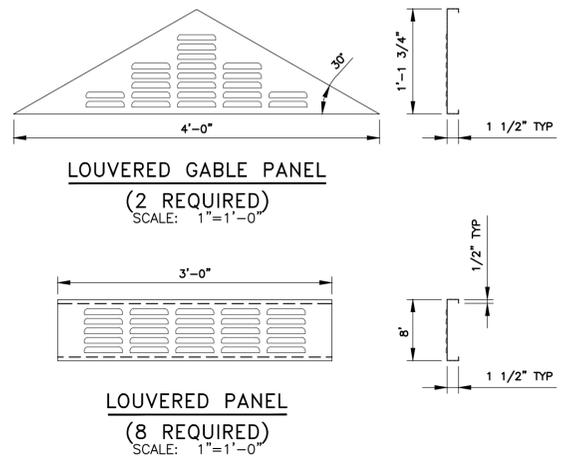
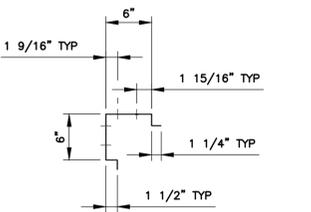
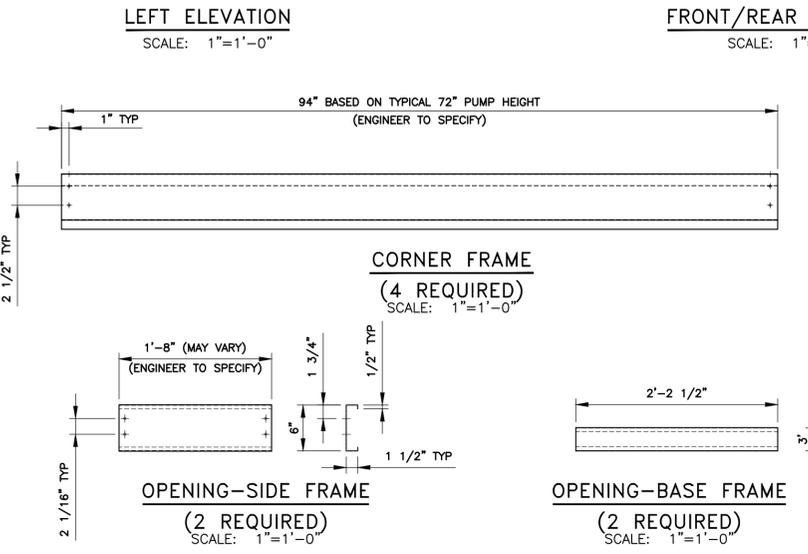
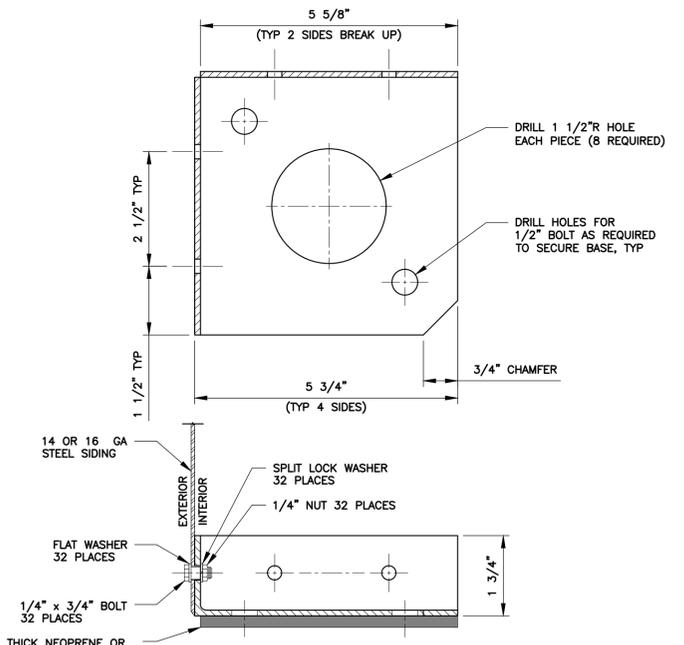
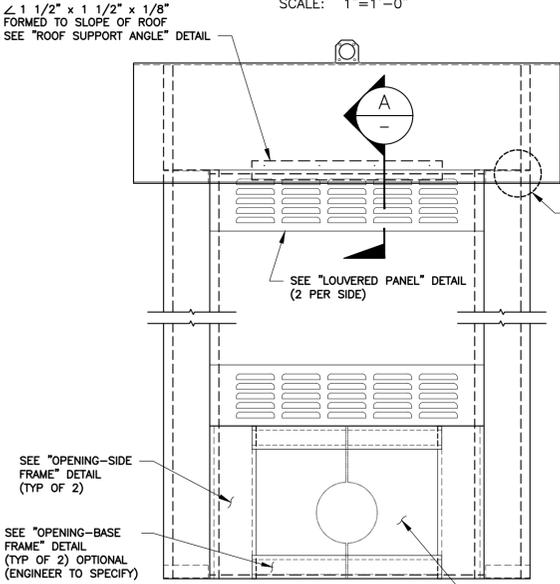
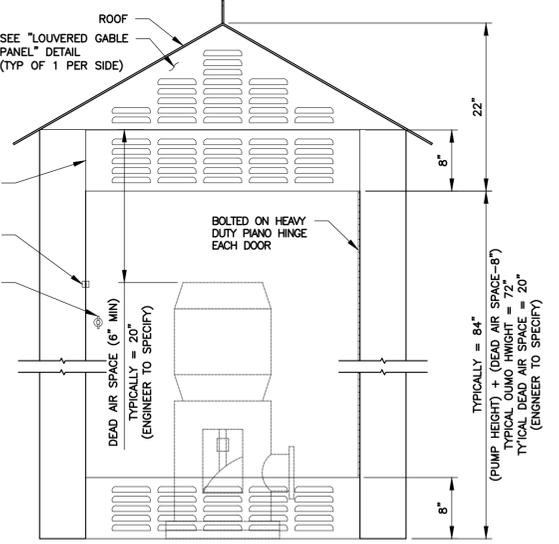
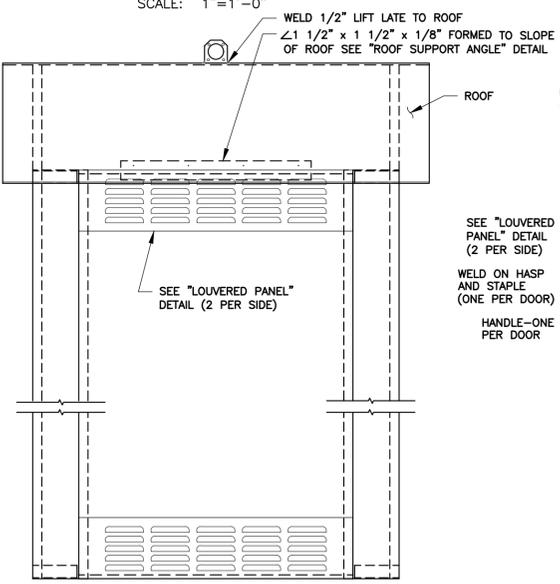
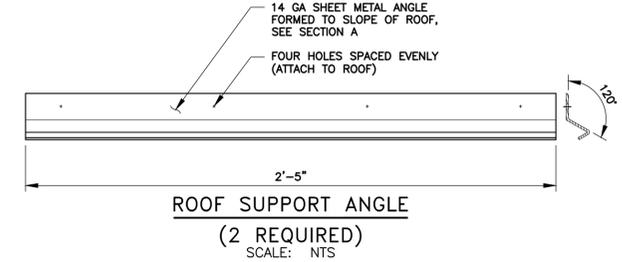
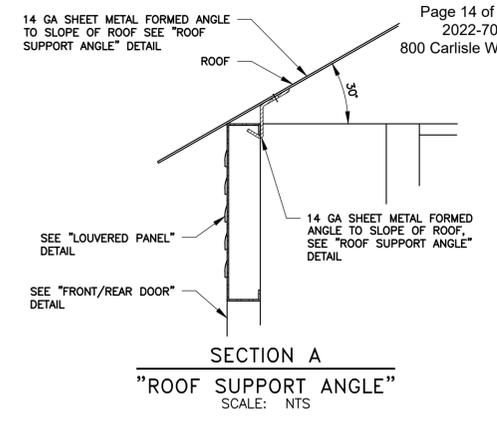
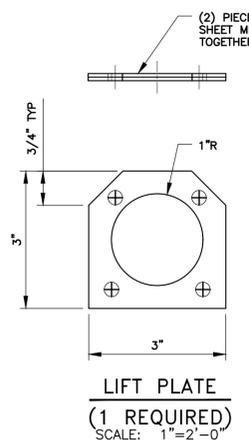
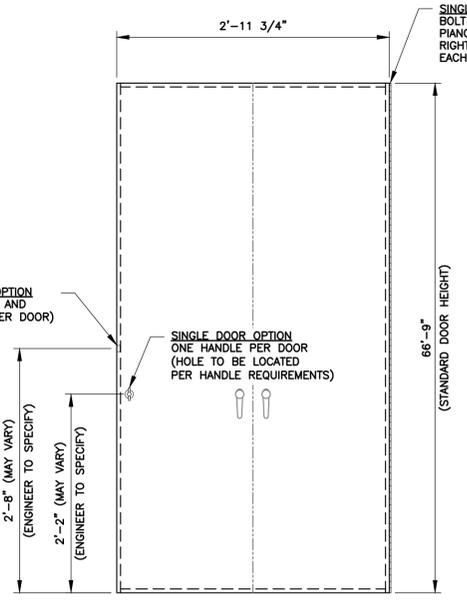
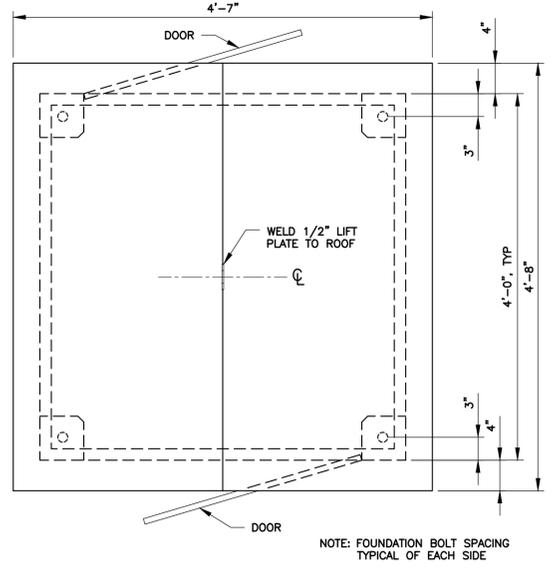
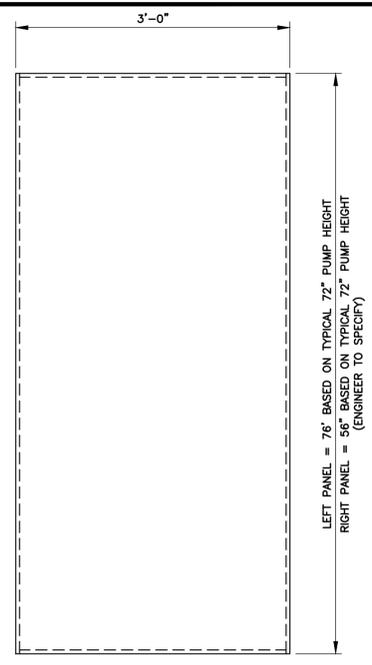
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LOS ALTOS, STATION 020, 800 CARLISLE WAY  
SUNNYVALE, CALIFORNIA  
ACOUSTICAL PUMP SHELTER  
DETAILS

DISTRICT: LOS ALTOS

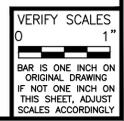
PROJECT ID: 111

DRAWING NO.: 00116020

SHT 14 OF 14



- NOTES:
- USE 14 OR 16 GA STEEL (UNLESS OTHERWISE SPECIFIED).
  - PROVIDE HINGE, HANDLE, HASP AND DOOR STOPS FOR FRONT & REAR DOORS. HANDLES & HINGES SHALL BE STAINLESS STEEL. HANDLES SHALL BE DUAL POINT.
  - ALL SURFACES SHALL BE WASHED & POWDER COATED WITH A HIGH GLOSS FINISH TO MATCH CAL WATER "GROUSE TAN". (SHERWIN WILLIAMS PCS8-40214-C50)
  - PROVIDE GALVANIZED HOLDING CHAINS TO STOP DOORS AT 100° ANGLE WHEN OPENED. INSULATION SHALL BE MOUNTED TO AN ALUMINUM FRAME TO ALLOW A 1/2" GAP. INSULATION SHALL CONSIST OF THREE LAYERS (LISTED FROM OUTSIDE IN):
    - MASS LOADED VINYL (PROSPEC BY ILLBRUCK ACOUSTICS OR EQUIVALENT)
    - 1" THICK FIBERGLASS (OWENS CORNING 705 OR EQUIVALENT)
    - SOUND MANAGEMENT FOAM (QUASH FR2000 OR EQUIVALENT)
  - INSULATION SHALL BE CLEANLY CUT & MECHANICALLY FASTENED TO THE SHELTER.



USERNAME: Skaradiou 12/4/2025 4:25 PM  
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