

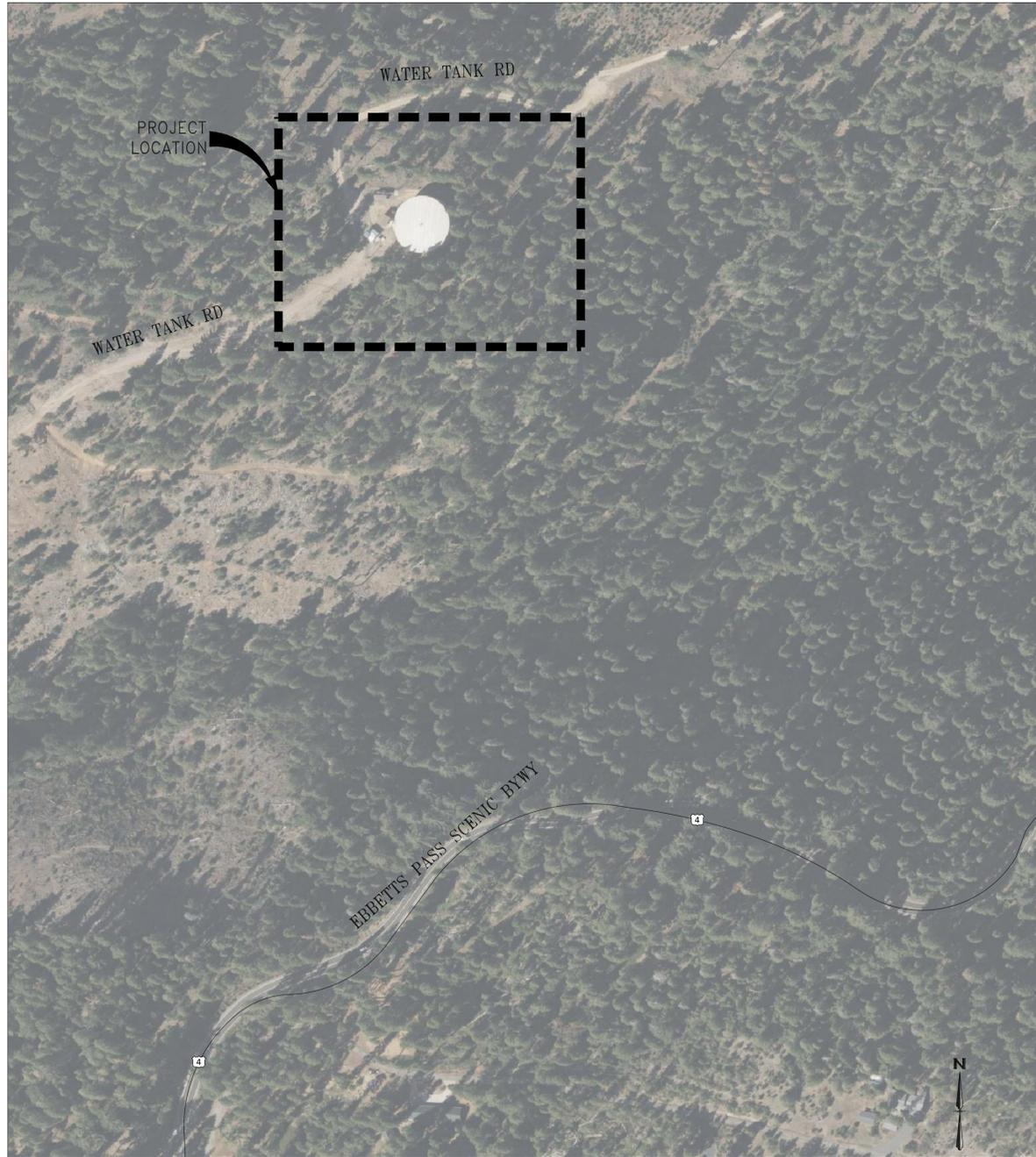
CALAVERAS COUNTY WATER DISTRICT WALLACE & SAWMILL WATER STORAGE TANK PROJECT

CALAVERAS COUNTY, CA

FINAL PLANS

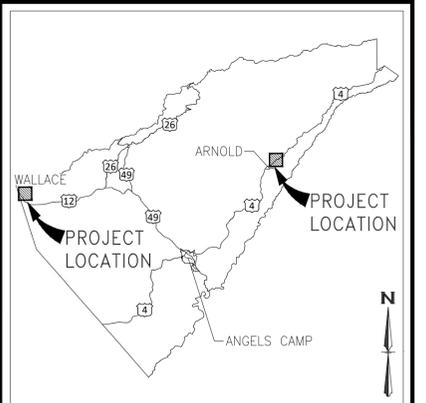


WALLACE TANK PROJECT SITE

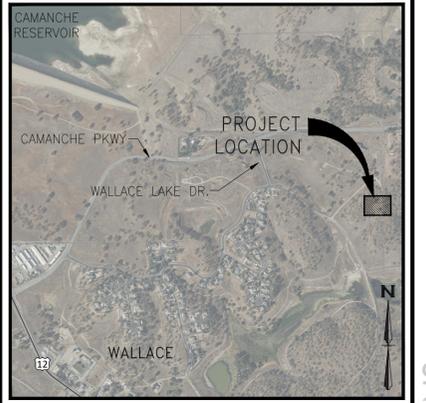


SAWMILL TANK PROJECT SITE

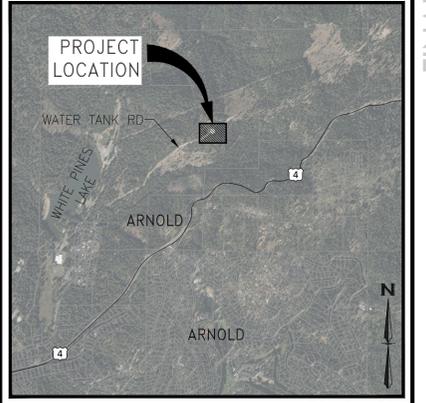
SCALE: NTS



VICINITY MAP SCALE: NTS



WALLACE LOCATION MAP SCALE: NTS



SAWMILL LOCATION MAP SCALE: NTS

APPROVED BY
CALAVERAS COUNTY WATER DISTRICT

BY _____ DATE _____

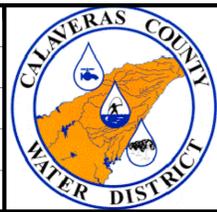
BLACK WATER
CONSULTING ENGINEERS
MODESTO, CA | FRESNO, CA | 209.322.1820

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Know what's below.
Call before you dig.

REGISTERED PROFESSIONAL ENGINEER
LUI W. LANIMOWICH III
No. C57769
CIVIL
STATE OF CALIFORNIA
08/29/2025

REV	DATE	DESCRIPTION	APP

PROJECT NO.
J24516/524
DESIGNED BY
NZ
DRAWN BY
JY
CHECKED BY
NZ
DATE
SEPTEMBER 2025



CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

COVER SHEET

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO.
0G01

SHEET NO.
01 OF 29

FINAL PLANS

CONTACTS

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 FRESNO, CA 93710
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 T:559.375.1522
 EMAIL:NICK@BLACKWATER-ENG.COM

OWNER:
 CALAVERAS COUNTY WATER DISTRICT
 120 TOMA COURT
 SAN ANDREAS, CA, 95249
 T:209.754.3543
 EMAIL: ENGINEERING@CCWD.ORG

GENERAL NOTES

- CONTRACTOR SHALL CONSIDER THE INFORMATION PRESENTED AS "GENERAL NOTES" AS PART OF THE CONSTRUCTION DOCUMENTS.
- PRIOR TO ANY WORK BEING PERFORMED, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES FOR A PRE-CONSTRUCTION CONFERENCE.
- ENGINEER OF RECORD MUST APPROVE ANY SUBSTITUTIONS. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE DRAWINGS AND OTHER DETAILS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. MATERIALS PROCURED PRIOR TO RESOLUTION OF CONFLICTS SHALL BE AT THE CONTRACTOR'S RISK.
- ALL WORK IS NEW UNLESS INDICATED AS EXISTING.
- THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. ALL STREET MONUMENTS, LOT CORNERS, BENCHMARKS, AND OTHER PERMANENT PIPE MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER OR SURVEYOR PRIOR TO ACCEPTANCE OF THE IMPROVEMENTS BY THE CALAVERAS COUNTY WATER DISTRICT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE GOVERNING BUILDING JURISDICTION AND/OR THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THE PROJECT.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED PROJECT, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- THE CONTRACTOR AGREES TO BE RESPONSIBLE FOR:
 - CLEANING THE JOB SITE AT THE END OF EACH PHASE OF WORK.
 - REMOVING AND DISPOSING OF ALL TRASH, SCRAP AND UNUSED MATERIAL IN A TIMELY MANNER.
 - MAINTAINING THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
 - KEEPING MATERIALS, EQUIPMENT AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS TO NOT INHIBIT THE WORK OF OTHERS OR DELAY THE JOB.
 - PROVIDING ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
 - SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO APPLICABLE RULES AND REGULATIONS.
 - FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
 - THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, OR OTHER DEVICES NECESSARY FOR

PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS, WARNING SIGNS, LIGHTS, AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAY" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.

- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES. RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
- PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. RECORD DRAWINGS SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- ALL FERROUS METALS THAT ARE NOT GALVANIZED SHALL BE PREPARED, PRIMED, AND EPOXY COATED. THE PRIMER AND COATING SHALL BE OF THE SAME MANUFACTURER AND APPLIED AS A SYSTEM. THE COATING SYSTEM AND COLOR SHALL BE APPROVED BY THE ENGINEER AND THE OWNER PRIOR TO APPLICATION.
- THE INFORMATION SHOWN ON THE PLANS WITH REGARD TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS WAS DERIVED FROM FIELD INVESTIGATIONS AND/OR RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS TO BE EITHER TRUE OR EXACT. PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE UNDERGROUND UTILITIES RELATED TO THE PROJECT; INCLUDING BUT NOT LIMITED TO SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE PRIOR TO CONSTRUCTION.
- WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRICAL LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT AND THE STATE REGULATIONS.
- ALL DIMENSIONS SHOWN ON DRAWINGS SHALL BE VERIFIED WITH EXISTING CONDITIONS. DO NOT SCALE DRAWINGS. ENGINEER OF RECORD MUST APPROVE ANY SUBSTITUTIONS. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE DRAWINGS AND OTHER DETAILS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK. MATERIALS PROCURED PRIOR TO RESOLUTION OF CONFLICTS SHALL BE AT THE CONTRACTOR'S RISK.
- ALL MATERIAL AND WORK SHALL CONFORM TO APPLICABLE DESIGN AND CONSTRUCTION STANDARDS. ALL IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF CALAVERAS COUNTY WATER DISTRICT AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.
- THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IMPLEMENTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GUIDELINES (INCLUDING, BUT NOT LIMITED TO THE CALAVERAS COUNTY AIR POLLUTION CONTROL DISTRICT).
- PIPE FITTINGS, WIRING, AND SUPPORTS SHALL BE PROVIDED TO PRODUCE COMPLETE, OPERABLE SYSTEMS WITH ALL ELEMENTS PROPERLY INTERCONNECTED TO MEET THE PERFORMANCE INTENT AS INTERPRETED BY THE OWNER. IF A SPECIFIED DIMENSION LOCATION IS NOT SHOWN FOR INTERCONNECTIONS OR SMALLER SYSTEM ELEMENTS, THE CONTRACTOR SHALL SELECT

APPROPRIATE LOCATIONS AND SHOW THEM ON THE SHOP DRAWING SUBMITTALS FOR REVIEW.

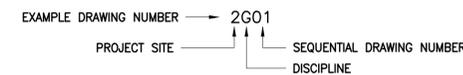
- EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT IMPERFECTIONS AND SHALL BE CONSTRUCTED IN A NEAT AND WORKMANLIKE MANNER; ALIGNED, LEVELED, CLEANED AND DUSTED FOR SATISFACTORY OPERATION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARD PRACTICES FOR THIS TYPE OF WORK.
- PRIOR TO REMOVAL OF EXISTING STRUCTURES AND MATERIALS, THE CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT THE SURROUNDING AREA AND SHALL RESTORE THE AREA TO ITS ORIGINAL STATE OR BETTER.
- FENCES THAT NEED TO BE REMOVED DURING CONSTRUCTION SHALL BE REMOVED TO THE NEAREST POST BEYOND THE AREA OF CONSTRUCTION. CONTRACTOR SHALL MATCH REPLACEMENT FENCE WITH THE EXISTING FENCE.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING WHERE EXISTING FENCE IS REMOVED TO PREVENT UNWANTED CROSSING OF THE PREVIOUS FENCE LINE. ALL UNSUPERVISED EQUIPMENT OR OPEN TRENCHES SHALL ALSO BE FENCED OFF WITH TEMPORARY FENCING.

SHEET INDEX

SHEET NUMBER	DRAWING NUMBER	DRAWING NAME
GENERAL		
01	0G01	COVER SHEET
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04	0C01	WALLACE & SAWMILL TANK SITE – CIVIL DETAILS
05	0C02	WALLACE & SAWMILL TANK SITE – CIVIL DETAILS
06	0C03	WALLACE & SAWMILL TANK SITE – CIVIL DETAILS
07	0C04	TANK BMP DETAILS – SAWMILL AND WALLACE
08	0C05	TANK BMP DETAILS – SAWMILL AND WALLACE
09	0C06	SAWMILL TANK SITE – CIVIL DETAILS
CIVIL – SAWMILL		
10	1C01	SAWMILL TANK SITE – TOPOGRAPHY AND DEMOLITION PLAN
11	1C02	SAWMILL TANK SITE – PROPOSED PROCESS FLOW DIAGRAM
12	1C03	SAWMILL TANK SITE – SITE PLAN
13	1C04	SAWMILL TANK SITE – PIPING PLAN
14	1C05	SAWMILL TANK SITE – GRADING PLAN
15	1C06	SAWMILL TANK SITE – ELECTRICAL AND CONTROLS CONDUIT PLAN
STRUCTURAL		
16	1C07	SAWMILL TANK SITE – TANK DETAILS
17	1C08	SAWMILL TANK SITE – TANK DETAILS
18	1C09	SAWMILL TANK SITE – TANK DETAILS
19	1C10	SAWMILL TANK SITE – TANK DETAILS
20	1C11	SAWMILL TANK SITE – SECTION DETAILS
CIVIL – WALLACE		
21	2C01	WALLACE TANK SITE – TOPOGRAPHY AND DEMOLITION PLAN
22	2C02	WALLACE TANK SITE – EXISTING PROCESS FLOW DIAGRAM
23	2C03	WALLACE TANK SITE – SITE PLAN
24	2C04	WALLACE TANK SITE – PROPOSED PROCESS FLOW DIAGRAM
25	2C05	WALLACE TANK SITE – PIPING AND CONDUIT PLAN
26	2C06	WALLACE TANK SITE – GRADING PLAN
STRUCTURAL		
27	2C07	WALLACE TANK SITE – TANK DETAIL
28	2C08	WALLACE TANK SITE – TANK DETAILS
29	2C09	WALLACE TANK SITE – TANK DETAILS
ELECTRICAL		
30	1E01	SAWMILL TANK SITE – ELECTRICAL
31	2E01	WALLACE TANK SITE – ELECTRICAL

KEY TO DRAWING NUMBERS

DISCIPLINES	PROJECT SITE
G – GENERAL	1. SAWMILL TANK SITE
C – CIVIL	2. WALLACE TANK SITE
S – STRUCTURAL	
M – MECHANICAL	
E – ELECTRICAL	
I – INSTRUMENTATION	



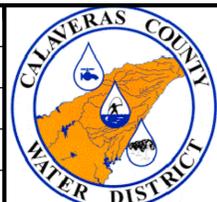
BLACK WATER CONSULTING ENGINEERS
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REGISTERED PROFESSIONAL ENGINEER
 NICK ZANINOVICH
 No. C87769
 CIVIL
 STATE OF CALIFORNIA
 08/29/2025

REV	DATE	DESCRIPTION	APP

PROJECT NO.
J24516/524
 DESIGNED BY
 NZ
 DRAWN BY
 JY
 CHECKED BY
 NZ
 DATE
 SEPTEMBER 2025



CALAVERAS COUNTY WATER DISTRICT
 WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
 GENERAL NOTES, DRAWING INDEX

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWING NO.
0G02
 SHEET NO.
02 OF 29

FINAL PLANS

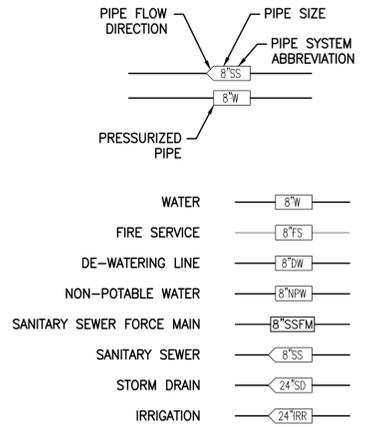
EXISTING SITE SYMBOLS IN PLAN

CENTER LINE		WATER VALVE	
EASEMENT		FDC	
LOT LINE		FIRE HYDRANT	
RIGHT OF WAY LINE		HOSE BIB	
PROPERTY LINE		WATER METER BOX	
BENCHMARK		WELL	
RAILROAD			
BARBWIRE FENCE			
CHAINLINK FENCE			
WOODEN FENCE			
WALL - MASONRY			
CURB, GUTTER & SIDEWALK			
GRADE CONTOURS			
BUILDING			
GAS LINE			
OVERHEAD LINE			
ELECTRICAL LINE			
TELEPHONE LINE			
IRRIGATION			
SANITARY SEWER			
SEWER FORE MAIN			
STORM DRAIN			
WATER			
SWALE OR DITCH			
EXISTING PIPE REMOVAL			
ELECTRICAL BOX			
GUY WIRE			
UTILITY POLE			
STREET LIGHT BOX			
PAC BELL MANHOLE			
UTILITY BOX			
TELEPHONE BOX			
GAS METER			
IRRIGATION CONTROL BOX			
IRRIGATION CONTROL VALVE			
IRRIGATION MANHOLE			
IRRIGATION RISER			
IRRIGATION STRUCTURE			
BOLLARD			
MAILBOX			
SIGN			
TREE			
SANITARY SEWER CLEAN-OUT			
SANITARY SEWER MANHOLE			
STORM DRAIN AREA DRAIN			
STORM DRAIN CATCH BASIN			
STORM DRAIN MANHOLE			
BACKFLOW PREVENTER			
BACKFLOW DETECTOR			

SITE SYMBOLS IN PLAN

CENTER LINE	
EASEMENT	
PIPE REMOVAL	
CHAINLINK FENCE	
WOODEN FENCE	
WALL - MASONRY	
CURB, GUTTER & SIDEWALK	
GRADE CONTOURS	
EMBANKMENT	
SAWCUT LINE	
BUILDING	
SINGLE/DOUBLE DOOR	
SWALE	
HOSE BIB	
THRUST BLOCK	
WATER METER	
BACKFLOW PREVENTER	
WELL	
PIPE STUB	
BLOWOFF	
AIR RELEASE VALVE	
REDUCER	
GATE VALVE	
BUTTERFLY VALVE	
CHECK VALVE	
FIRE HYDRANT	
SEWER CLEANOUT	
SEWER MANHOLE	
SEWER LIFT STATION	
CATCH BASIN	
AREA DRAIN	
STORM DRAIN MANHOLE	
IRRIGATION MANHOLE	

PIPE IDENTIFICATION SYSTEM



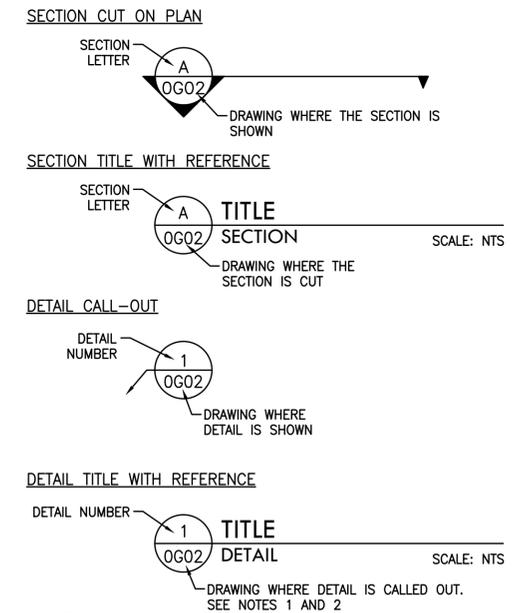
HATCH LEGEND IN PLAN

	EXISTING ASPHALT
	EXISTING AGGREGATE BASE
	EXISTING CONCRETE
	PROPOSED ASPHALT
	PROPOSED AGGREGATE BASE
	PROPOSED CONCRETE
	PROPOSED RIP-RAP

ABBREVIATIONS

AB	AGGREGATE BASE	ST	STREET
AC	ASPHALT CONCRETE	STD	STANDARD
ALT	ALTERNATE	STL	STEEL
ARV	AIR RELEASE VALVE	SWTP	SURFACE WATER TREATMENT PLANT
AVE	AVENUE	TEMP	TEMPORARY
AWWA	AMERICAN WATER WORK ASSOCIATION	T OR TEL	TELEPHONE
BFD	BACK FLOW DETECTOR	TG	TOP OF GRATE
BFP	BACK FLOW PREVENTER	THRU	THROUGH
BO	BLOW OFF	TP	TELEPHONE POLE
BTWN	BETWEEN	TYP	TYPICAL
BV	BUTTERFLY VALVE	UTL	UTILITY BOX
CIP	CAST IN PLACE	UON	UNLESS OTHERWISE NOTED
CMP	CORRUGATED METAL PIPE	VERT	VERTICAL
CONC OR CC	CONCRETE	W	WATER / WEST
CV	CHECK VALVE	WM	WATER METER
DIA	DIAMETER	WV	WATER VALVE
DIP	DUCTILE IRON PIPE		
DWG	DRAWING		
DVC	DIRECTIONAL CONTROL VALVE		
ELEC	ELECTRIC		
EX	EXISTING		
FDC	FIRE DEPARTMENT CONNECTION		
FDN	FOUNDATION		
FF	FINISH FLOOR		
FG	FINISH GRADE		
FH	FIRE HYDRANT		
FL	FLOW LINE		
E	EAST		
GR	GRATE		
GV	GATE VALVE		
HB	HOSE BIB		
HORIZ	HORIZONTAL		
HT	HEIGHT		
ICB	IRRIGATION CONTROL BOX		
ICV	IRRIGATION CONTROL VALVE		
ID	INSIDE DIAMETER		
INV	INVERT		
IRR	IRRIGATION		
JP	JUNCTION POLE		
LF	LINEAL FEET OR LINEAR FEET		
LT	LEFT		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MGD	MILLION GALLONS PER DAY		
MIN	MINIMUM		
N	NORTH / NEW		
NIC	NOT IN CONTRACT		
NO.	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTER		
OHE	OVERHEAD ELECTRIC		
P.C.	POINT OF CURVATURE		
PG&E	PACIFIC GAS AND ELECTRIC		
PL	PROPERTY LINE		
PP	PLAN AND PROFILE / POWER POLE		
PT	POINT		
P.T.	POINT OF TANGENT		
PVI	POINT VERTICAL INTERSECTION		
R	RADIUS		
R.C.	RELATIVE COMPACTION		
RCP	REINFORCED CONCRETE PIPE		
R.D.	RELATIVE DENSITY		
RD	ROAD		
REINF	REINFORCED		
REQ'D	REQUIRED		
R.O.W./R/W	RIGHT-OFF-WAY		
RT	RIGHT		
S	SLOPE / SOUTH		
SHT	SHEET		
SIM	SIMILAR		
SLB	STREET LIGHT BOX		
SS	SANITARY SEWER		
SSCO	SANITARY SEWER CLEAN OUT		
SSFM	SANITARY SEWER FORCE MAIN		
SSMH	SANITARY SEWER MANHOLE		
SD	STORM DRAIN		
SDCB	STORM DRAIN CATCH BASIN		
SDMH	STORM DRAIN MANHOLE		
SP	STREET POLE		
SST	STAINLESS STEEL		
STA	STATION		

SECTION AND DETAIL NUMBERING SYSTEM



- NOTES
- "VAR" IN THE DRAWING DESIGNATION AREA INDICATES DETAIL APPLIES TO MORE THAN ONE DRAWING.
 - " - " IN THE DRAWING AREA INDICATES THAT SECTION OR DETAIL IS SHOWN ON THE SAME DRAWING THAT IT IS CUT FROM OR REFERRED TO.
 - WHEN REFERRED TO IN A NOTE: "SEE DET 1/C7.02" "1" IS THE DETAIL NUMBER "C6.03" IS THE DRAWING WHERE DETAIL IS SHOWN.

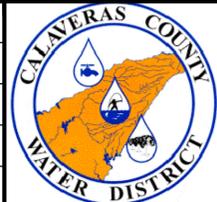
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WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
LEGEND, AND ABBREVIATIONS

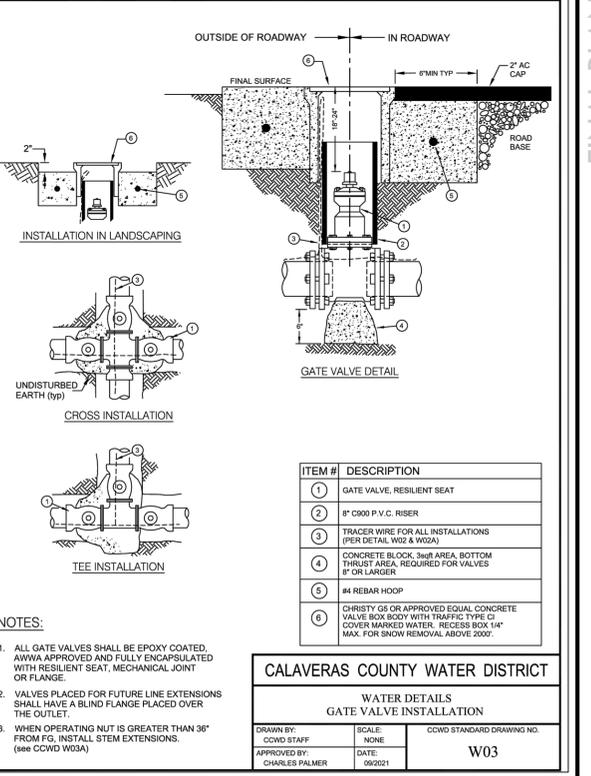
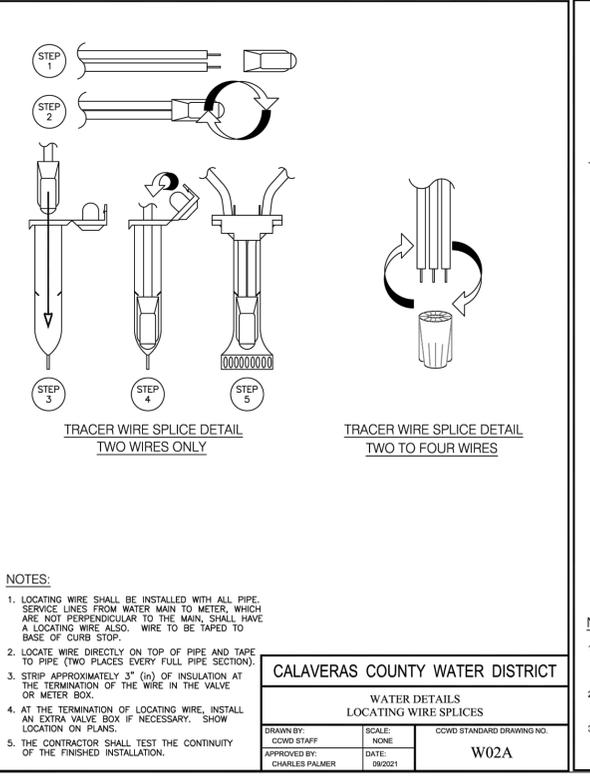
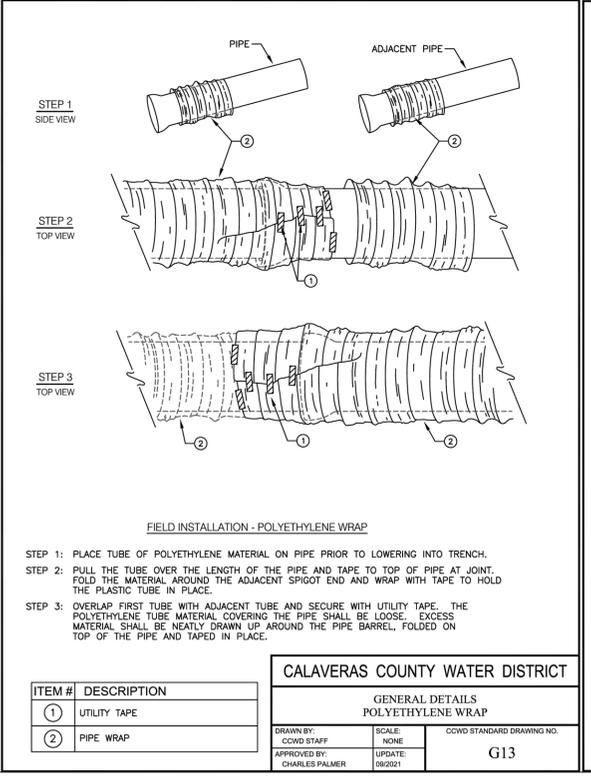
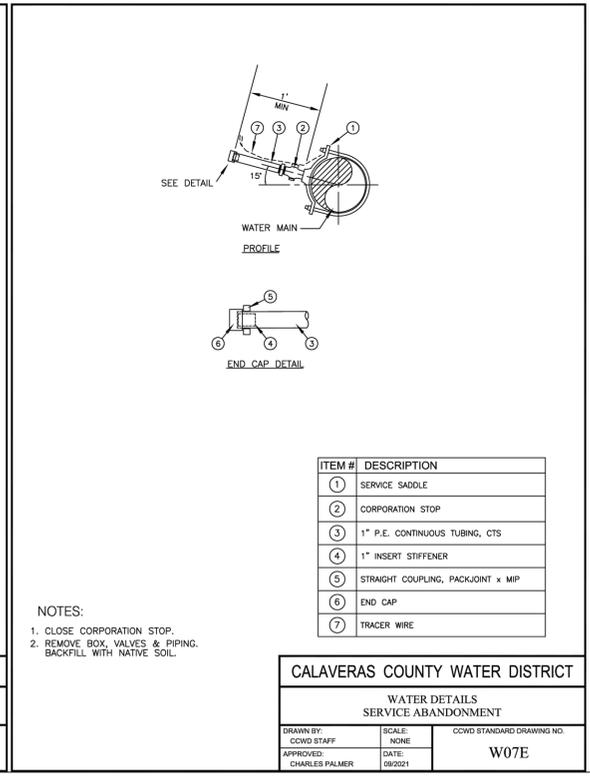
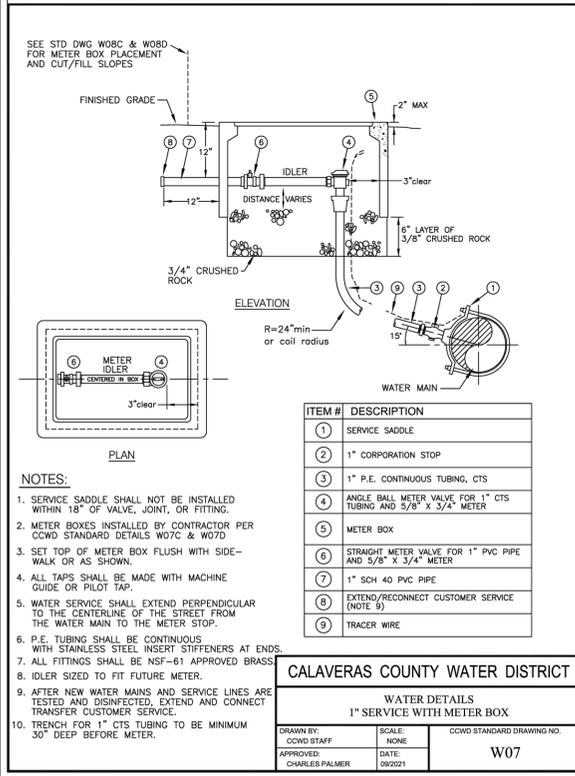
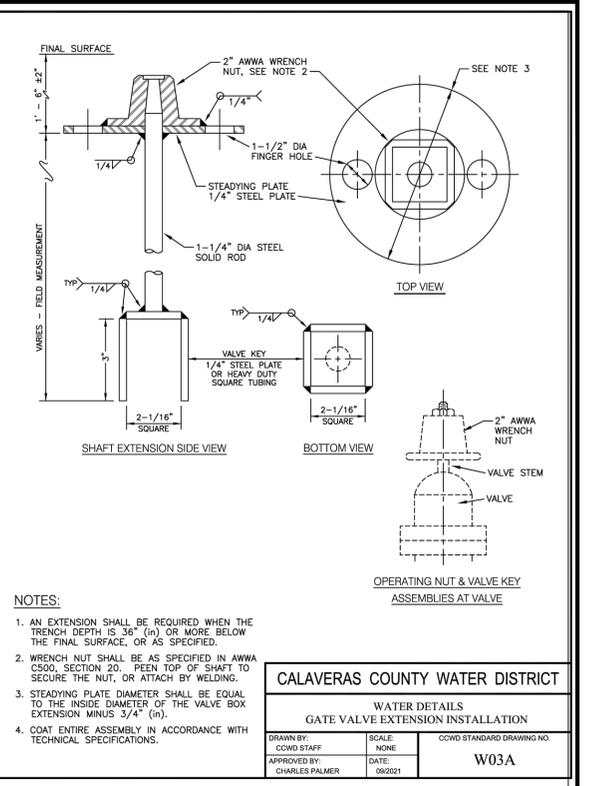
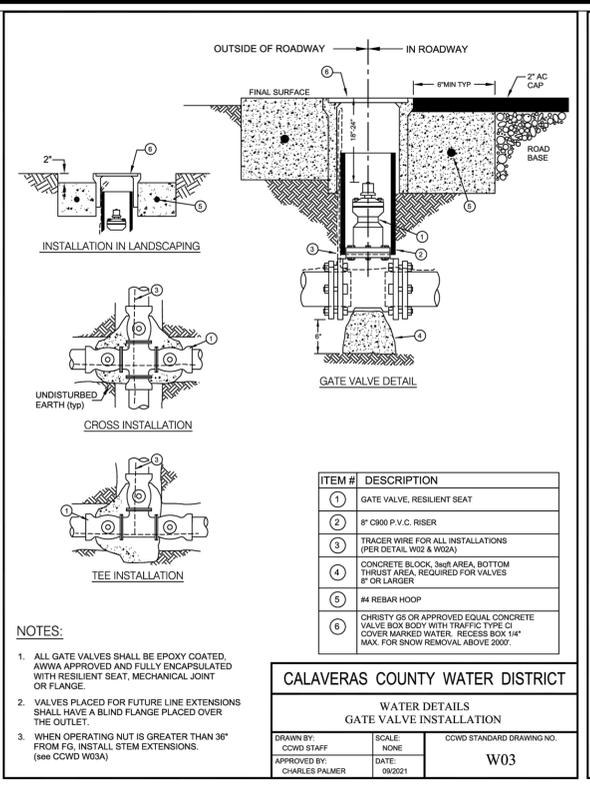
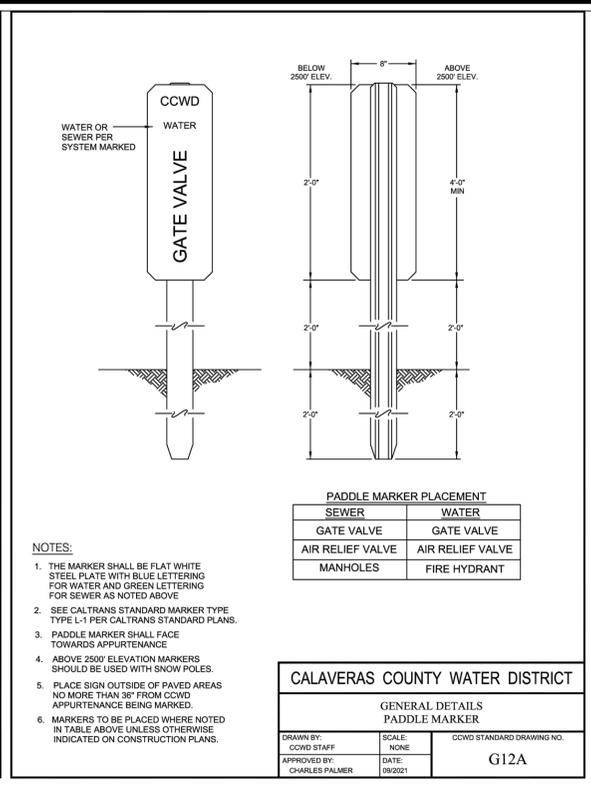
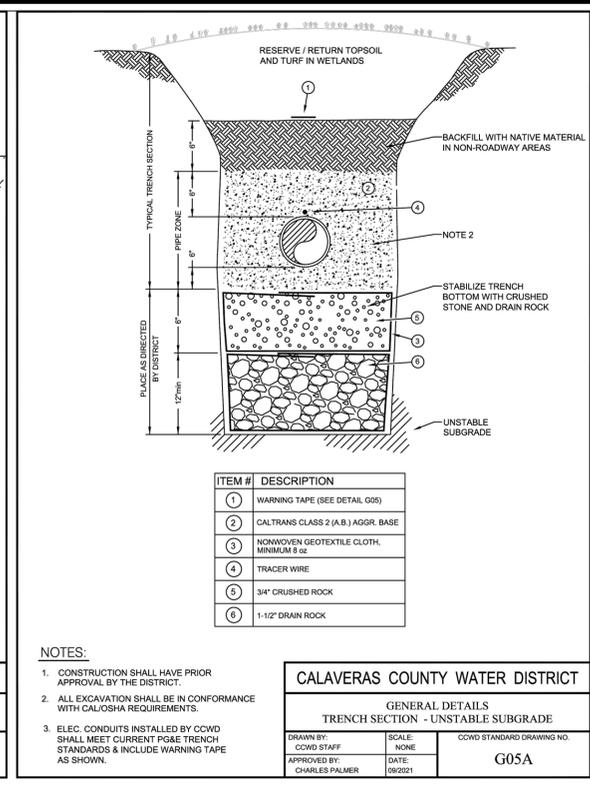
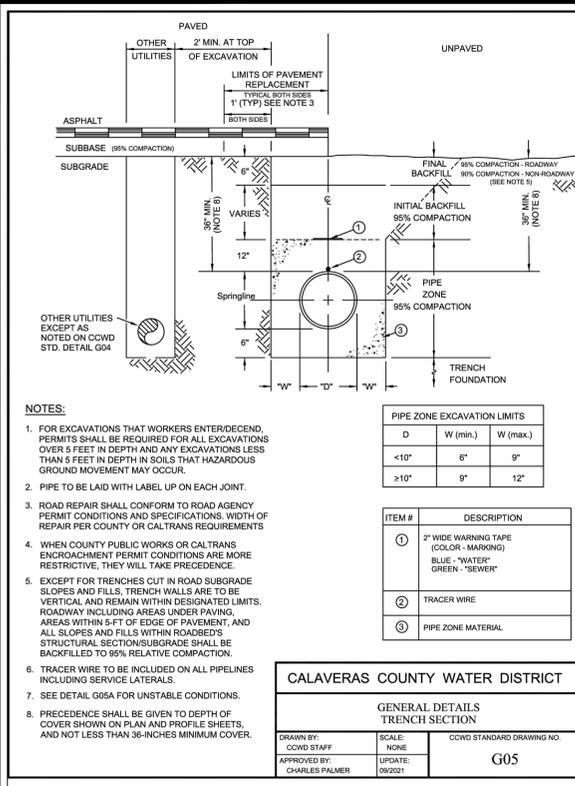
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DRAWING NO.
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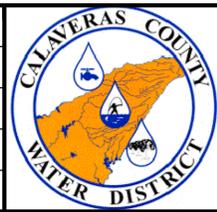
SHEET NO.
03 OF 29

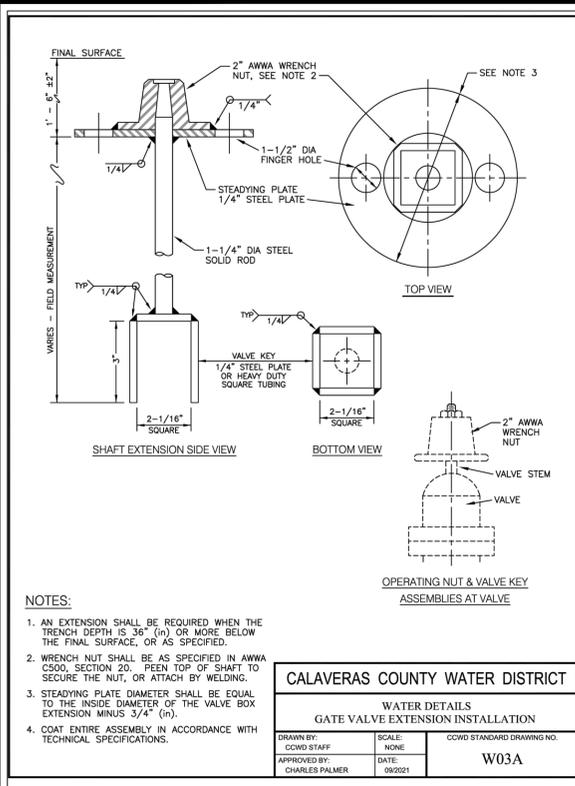
1:24.00 & 1:48.00 WALLACE AND SAWMILL WATER STORAGE TANK PROJECT (SHEET 03 OF 29) DATE: 09/29/2025 10:54:24 AM BY: NATHANIEL BENJAMIN

FINAL PLANS



REV	DATE	DESCRIPTION	APP





NOTES:

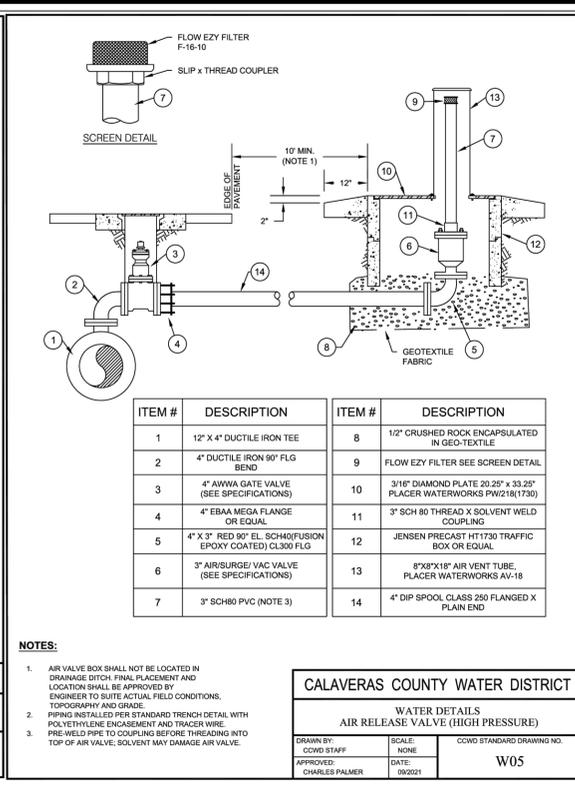
- AN EXTENSION SHALL BE REQUIRED WHEN THE TRENCH DEPTH IS 36" (9m) OR MORE BELOW THE FINAL SURFACE, OR AS SPECIFIED.
- WRENCH NUT SHALL BE AS SPECIFIED IN AWWA C500, SECTION 20. PEEN TOP OF SHAFT TO SECURE THE NUT, OR ATTACH BY WELDING.
- STEADYING PLATE DIAMETER SHALL BE EQUAL TO THE INSIDE DIAMETER OF THE VALVE BOX EXTENSION MINUS 3/4" (19mm).
- COAT ENTIRE ASSEMBLY IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.

CALAVERAS COUNTY WATER DISTRICT

WATER DETAILS
GATE VALVE EXTENSION INSTALLATION

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. W03A



NOTES:

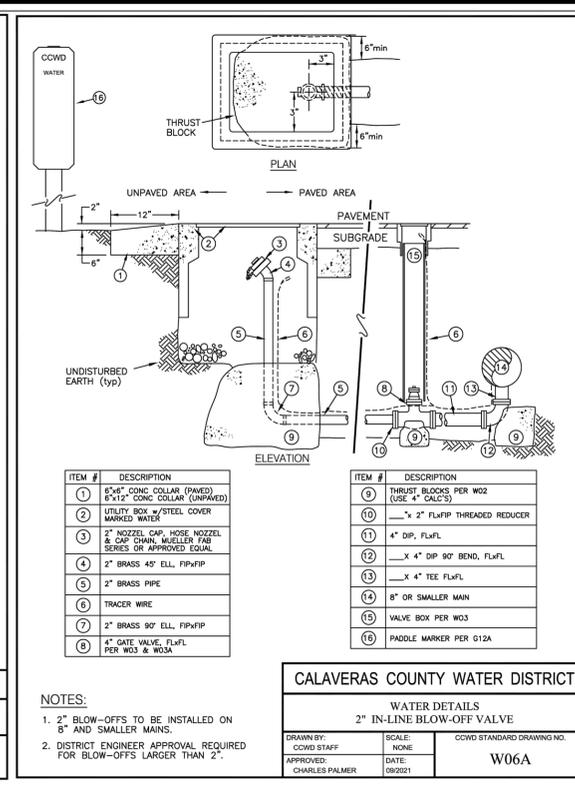
- AIR VALVE BOX SHALL NOT BE LOCATED IN DRAINAGE DITCH FINAL PLACEMENT AND LOCATION SHALL BE APPROVED BY ENGINEER TO SUITE ACTUAL FIELD CONDITIONS, TOPOGRAPHY AND GRADE.
- PIPING INSTALLED PER STANDARD TRENCH DETAIL WITH POLYETHYLENE ENCASINGMENT AND TRACER WIRE.
- PRE-WELD PIPE TO COUPLING BEFORE THREADING INTO TOP OF AIR VALVE; SOLVENT MAY DAMAGE AIR VALVE.

CALAVERAS COUNTY WATER DISTRICT

WATER DETAILS
AIR RELEASE VALVE (HIGH PRESSURE)

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. W05



NOTES:

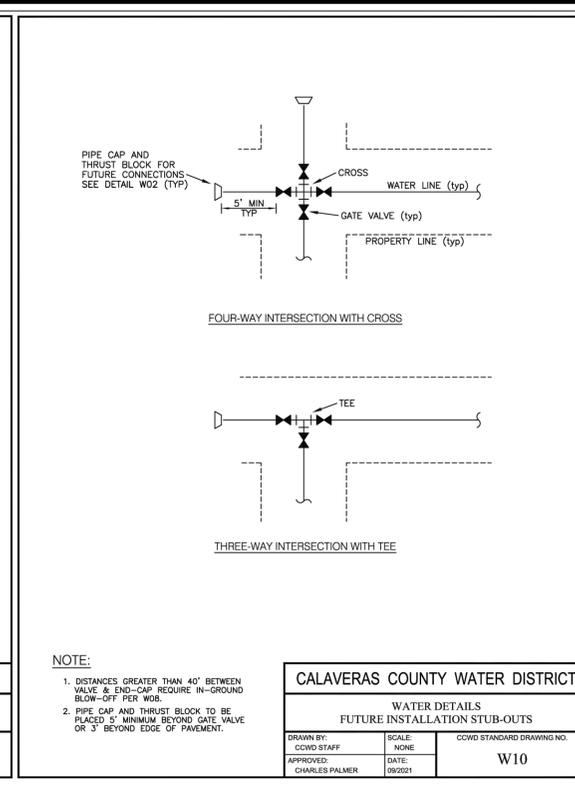
- 2" BLOW-OFFS TO BE INSTALLED ON 8" AND SMALLER MAINS.
- DISTRICT ENGINEER APPROVAL REQUIRED FOR BLOW-OFFS LARGER THAN 2".

CALAVERAS COUNTY WATER DISTRICT

WATER DETAILS
2" IN-LINE BLOW-OFF VALVE

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. W06A



NOTE:

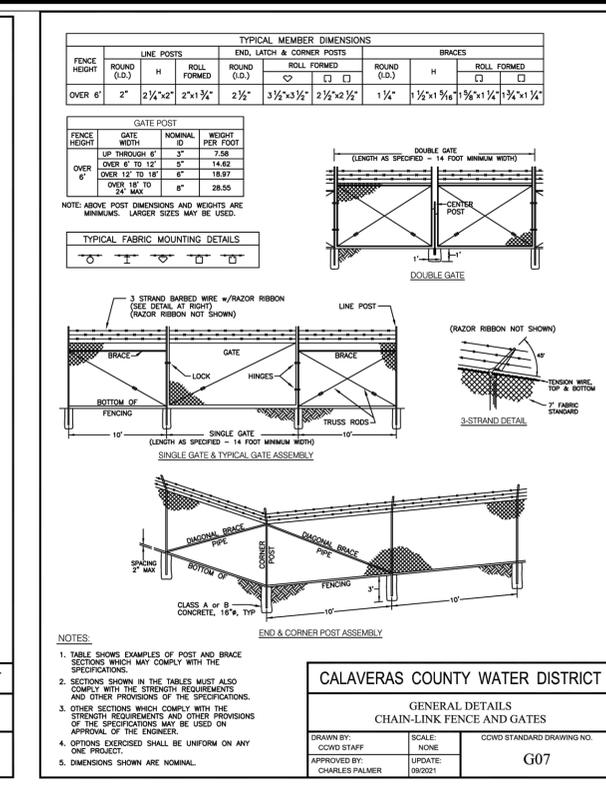
- DISTANCES GREATER THAN 40" BETWEEN VALVE & END-CAP REQUIRE IN-GROUND BLOW-OFF PER W06.
- PIPE CAP AND THRUST BLOCK TO BE PLACED 5" MINIMUM BEYOND GATE VALVE OR 3" BEYOND EDGE OF PAVEMENT.

CALAVERAS COUNTY WATER DISTRICT

WATER DETAILS
FUTURE INSTALLATION STUB-OUTS

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. W10



NOTES:

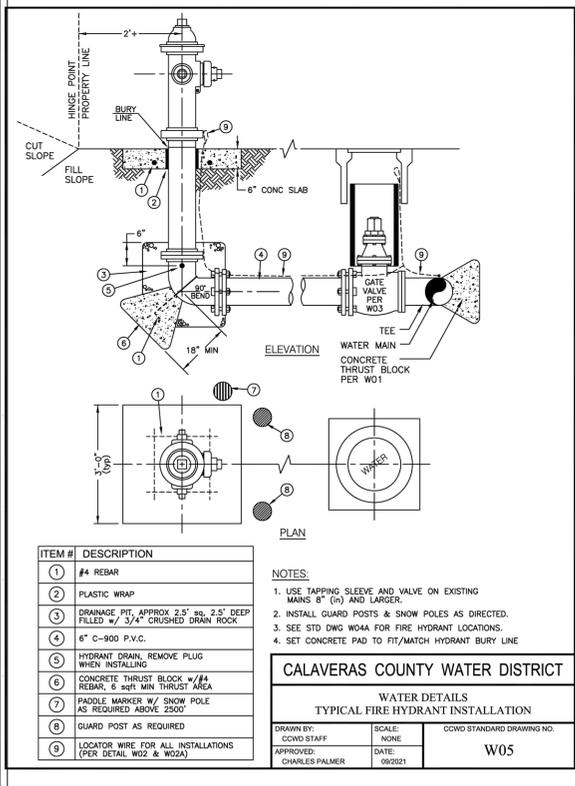
- TABLE SHOWS EXAMPLES OF POST AND BRACE SECTIONS WHICH MAY COMPLY WITH THE SPECIFICATIONS.
- SECTIONS SHOWN IN THE TABLES MUST ALSO COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS.
- OTHER SECTIONS WHICH COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS MAY BE USED ON APPROVAL OF THE ENGINEER.
- OPTIONS EXERCISED SHALL BE UNIFORM ON ANY ONE PROJECT.
- DIMENSIONS SHOWN ARE NOMINAL.

CALAVERAS COUNTY WATER DISTRICT

GENERAL DETAILS
CHAIN-LINK FENCE AND GATES

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. G07



NOTES:

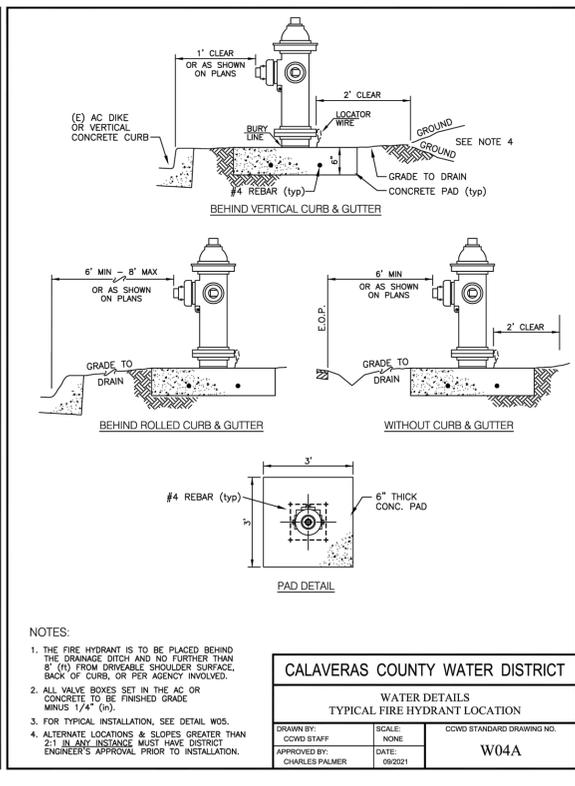
- USE TAPPING SLLEEVE AND VALVE ON EXISTING MAINS 8" (203mm) AND LARGER.
- INSTALL GUARD POSTS & SNOW POLES AS DIRECTED.
- SEE STD DWG W04A FOR FIRE HYDRANT LOCATIONS.
- SET CONCRETE PAD TO FIT/MATCH HYDRANT BURY LINE.

CALAVERAS COUNTY WATER DISTRICT

WATER DETAILS
TYPICAL FIRE HYDRANT INSTALLATION

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. W05



NOTES:

- THE FIRE HYDRANT IS TO BE PLACED BEHIND THE DRAINAGE DITCH AND NO FURTHER THAN 8" (203mm) FROM DRAINABLE SHOULDER SURFACE, BACK OF CURB, OR PER AGENCY INVOLVED.
- ALL VALVE BOXES SET IN THE AC OR CONCRETE TO BE FINISHED GRADE MINUS 1/4" (6mm).
- FOR TYPICAL INSTALLATION, SEE DETAIL W05.
- ALTERNATE LOCATIONS & SLOPES GREATER THAN 2:1 IN ANY INSTANCE MUST HAVE DISTRICT ENGINEER'S APPROVAL PRIOR TO INSTALLATION.

CALAVERAS COUNTY WATER DISTRICT

WATER DETAILS
TYPICAL FIRE HYDRANT LOCATION

SCALE: NONE
DATE: 09/20/21

CCWD STANDARD DRAWING NO. W04A

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REGISTERED PROFESSIONAL ENGINEER

LIN LAMINOWSKI

No. 657769

CIVIL

STATE OF CALIFORNIA

09/29/2025

REV	DATE	DESCRIPTION	APP

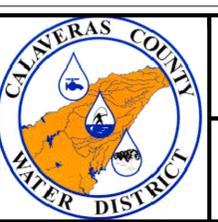
PROJECT NO. J24516/524

DESIGNED BY NZ

DRAWN BY JY

CHECKED BY NZ

DATE SEPTEMBER 2025



CALAVERAS COUNTY WATER DISTRICT

WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

WALLACE & SAWMILL TANK SITE - CIVIL DETAILS

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

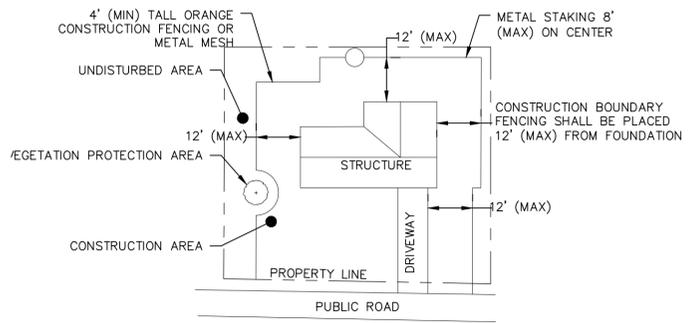
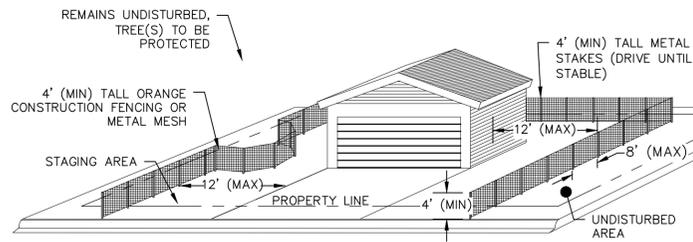
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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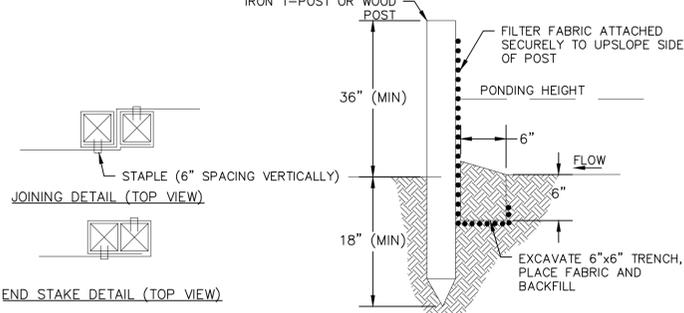
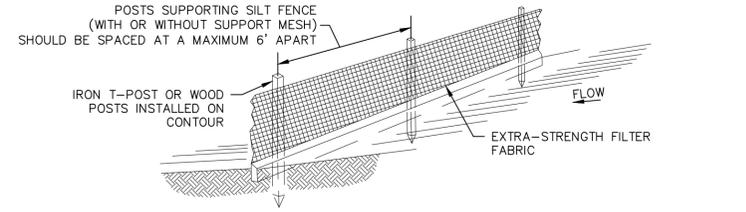
SHEET NO. 05 OF 29

FINAL PLANS



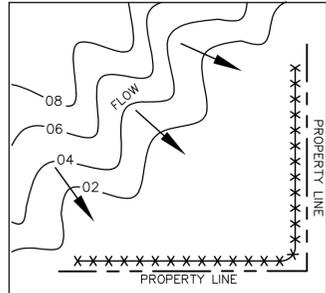
- NOTES:**
- METAL OR WIRE MESH FENCING MAY BE REQUIRED FOR SITES THAT CONSISTENTLY FAIL TO MAINTAIN PERMITTED FENCING REQUIREMENTS.
 - INSPECTIONS SHALL BE MADE DAILY AND DOWNED SECTIONS REPAIRED IMMEDIATELY.
 - ALL DISTURBED SOIL WITHIN THE CONSTRUCTION AREA MUST BE DE-COMPACTED AND RESTORED. PLANT WITH NATIVE AND/OR ADAPTED PLANTS POST-CONSTRUCTION.

1 TEMPORARY PROTECTIVE FENCING
DETAIL SCALE: NTS

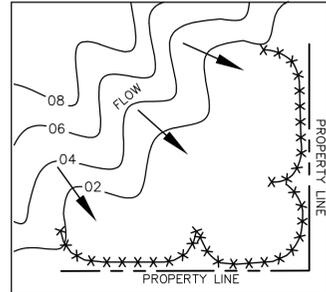


- NOTES:**
- USED IN AREAS WHERE SHEET FLOW OCCURS.
 - DO NOT USE IN STREAMS, CHANNELS, OR ANYWHERE FLOW IS CONCENTRATED. DO NOT USE SILT FENCES TO DIVERT FLOW.
 - DO NOT USE BELOW SLOPES SUBJECT TO CREEP, SLUMPING, OR LANDSLIDES.
 - SILT FENCE SHOULD BE WOVEN POLYPROPYLENE WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM TENSILE STRENGTH OF 100 LB FORCE.
 - INSTALL ALONG A LEVEL CONTOUR SO WATER DOES NOT POND MORE THAN 1.5 FEET AT ANY POINT ALONG THE SILT FENCE.
 - THE MAXIMUM LENGTH OF SLOPE DRAINING TO ANY POINT ALONG THE SILT FENCE SHOULD BE 200 FEET OR LESS.
 - THE MAXIMUM SLOPE PERPENDICULAR TO THE FENCE LINE SHOULD BE 1:1.
 - PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND TO ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOES OF SLOPES OR OTHER OBSTRUCTIONS.
 - TURN THE ENDS OF THE FILTER FENCE UPHILL TO CREATE A "J" SHAPE, TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
 - LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWN SLOPE FROM THE FENCE WHERE FEASIBLE.
 - SILT FENCES SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
 - REMOVE SEDIMENT WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

2 SILT FENCE
DETAIL SCALE: NTS

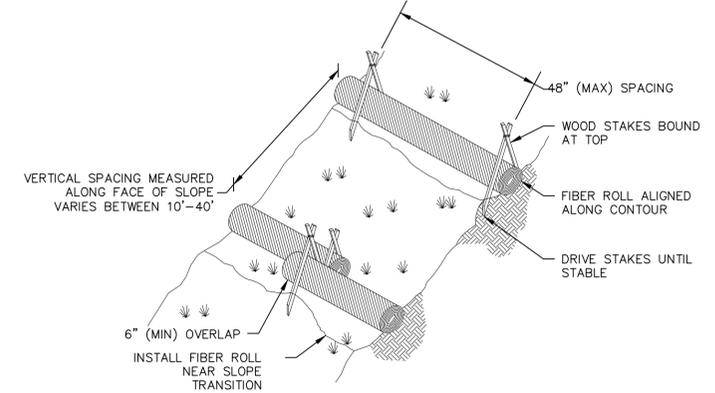
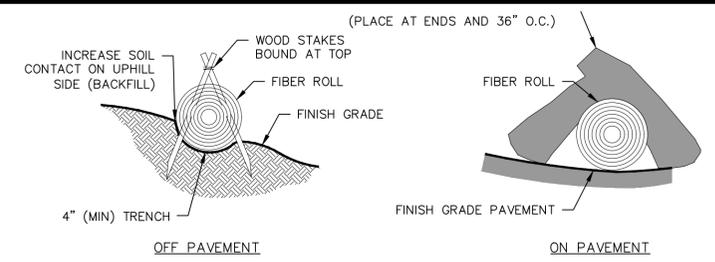


INCORRECT PLACEMENT
DO NOT LAYOUT PERIMETER CONTROL SILT FENCES ALONG PROPERTY LINES. ALL SEDIMENT-LADEN RUNOFF WILL CONCENTRATE AND OVERWHELM THE SYSTEM.

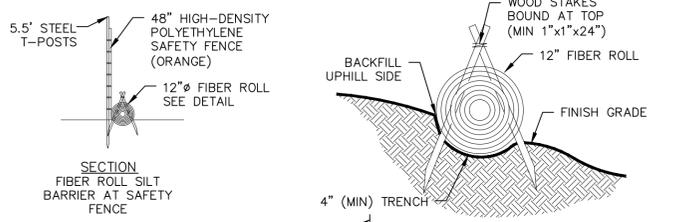


CORRECT PLACEMENT
BREAK-UP SILT FENCE INTO SECTIONS TO PREVENT SEDIMENT-LADEN RUNOFF FROM CONCENTRATING AND OVERWHELMING THE SYSTEM.

3 SILT FENCE PLACEMENT
DETAIL SCALE: NTS



4 TEMPORARY PROJECTIVE FENCING
DETAIL SCALE: NTS



- NOTES:**
- FIBER ROLLS SHALL BE BOUND BY HIGH STRENGTH COIR NETTING, AND MANUFACTURED FROM WHEAT, RICE, OR COCONUT FIBERS. STRAW SHOULD BE AVOIDED IF POSSIBLE.
 - ORANGE SAFETY FENCE IS INTENDED TO PROTECT FIBER ROLLS FROM COMPRESSION BY VEHICLES, CONSTRUCTION EQUIPMENT, ETC. FENCES SHALL BE HIGH DENSITY POLYETHYLENE WITH A MESH OPENING OF APPROXIMATELY 1 INCH BY 4 INCHES AND A MINIMUM HEIGHT OF 4 FEET. SAFETY FENCE MAY BE OMITTED IN LOW TRAFFIC AREAS.
 - FIBER ROLL SILT BARRIER SHALL BE INSTALLED ALONG CONTOUR AND ON SLOPES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - THE INSTALLATION CONFIGURATION SHALL PREVENT RUNOFF FROM LEAVING THE SITE OR ENTERING A WATERCOURSE WITHOUT PASSING THROUGH A SILT BARRIER.
 - THE MAXIMUM LENGTH OF SLOPE DRAINING TO THE SILT BARRIER SHALL BE 100 FEET.
 - FIBER ROLL SHALL BE INSTALLED BY SHAPING A 4 INCH DEEP FURROW TO MATCH THE SHAPE OF THE LOG, SECURING IN FURROW WITH WOOD STAKES, AND TAMPING THE GROUND AROUND THE FIBER ROLL TO FILL VOIDS BETWEEN THE LOG AND THE GROUND.

5 FIBER ROLL SILT BARRIER
DETAIL SCALE: NTS

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REGISTERED PROFESSIONAL ENGINEER
L. J. ZANINOVICH III
No. C57769
CIVIL
STATE OF CALIFORNIA
09/29/2025

REV	DATE	DESCRIPTION	APP

PROJECT NO.
J24516/524
DESIGNED BY
NZ
DRAWN BY
JY
CHECKED BY
NZ
DATE
SEPTEMBER 2025

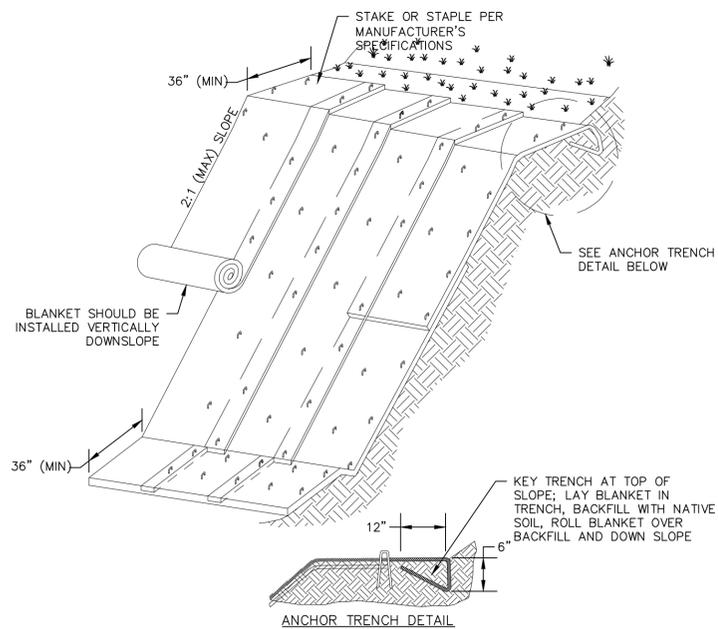
CALAVERAS COUNTY
WATER DISTRICT

CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
WALLACE & SAWMILL TANK SITE - CIVIL DETAILS

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

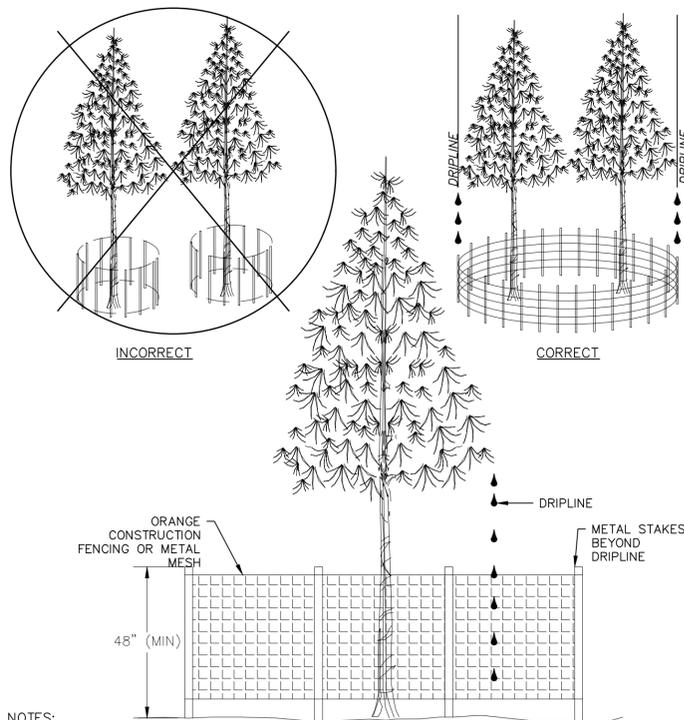
DRAWING NO.
OC04
SHEET NO.
07 OF 29

FINAL PLANS



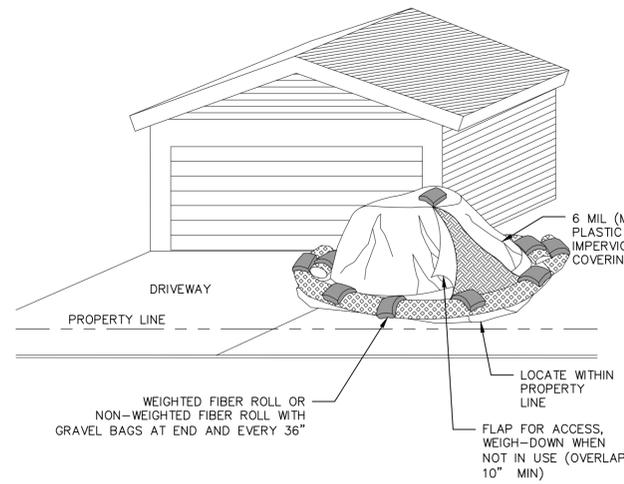
- NOTES:**
- SLOPE SURFACE SHALL BE FREE OF ROCKS, VEGETATION, STICKS, AND DEBRIS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT. SCARIFY AND/OR TILL SLOPE SURFACE 12" DEEP BEFORE LAYING BLANKET.
 - LAY BLANKETS LOOSELY AND STAKE OR STAPLE AS NEEDED TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH OR TWIST.
 - EROSION CONTROL BLANKETS SHOULD BE USED IN CONJUNCTION WITH REVEGETATION (CONTAINER OR PLUG PLANTING) TO SPECIFICATIONS OF REVEGETATION PLAN FOR PROJECT.
 - HAND WALK BLANKET DOWN SLOPE AS BLANKET IS STAKED OR STAPLED TO PREVENT STRETCHING.
 - DO NOT WALK ON BLANKET ONCE IN PLACE.
 - ALL ANCHORS SHALL BE INSTALLED PERPENDICULAR TO SLOPE.
 - EROSION CONTROL BLANKET SHALL BE BIODEGRADABLE, FREE OF PLASTIC NETTING (WILDLIFE-FRIENDLY) WITH JUTE OR EQUIVALENT THREADING STRANDS THAT ARE CAPABLE OF MOVING INDEPENDENTLY. PRODUCT SHALL BE AMERICAN EXCELSIOR CO. PREMIUM STRAW DOUBLE-NET FIBERNET OR APPROVED EQUIVALENT.
 - PRIOR TO INSTALLING FILTER FABRIC, CONTRACTOR SHALL EVENLY DISTRIBUTE AND HAND RAKE INTO UPPER 1" OF SOIL PROFILE DISTRICT-APPROVED NATIVE GRASS AND WILDFLOWER SEED AT A RATE OF 78 LB/ACRE AND APPROVED FERTILIZER AT A RATE OF 500 LB/ACRE.

1 EROSION CONTROL BLANKET
- DETAIL SCALE: NTS



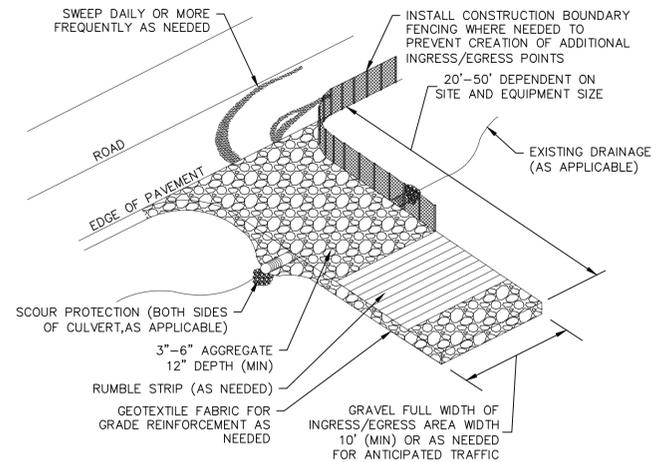
- NOTES:**
- DO NOT PERMIT PERSONNEL, CONSTRUCTION MATERIALS, OR EQUIPMENT, TEMPORARY OR OTHERWISE, WITHIN PROTECTIVE FENCING.
 - VEGETATION PROTECTION IS REQUIRED ONLY FOR AREAS IDENTIFIED ON THE PLANS TO BE PROTECTED.
 - METAL OR WIRE MESH FENCING MAY BE REQUIRED.
 - CALCULATE THE PROTECTIVE PERIMETER FOR SHIELDING LARGER SPECIMEN TREES MEASURING OVER 30" DBH AS FOLLOWS: COMPUTE THE PROTECTIVE RADIUS BY ADDING ONE FOOT, AS MEASURED OUT FROM THE TREE BOLE, FOR EVERY INCH IN DBH. (E.G. A TREE WITH A 30" DBH WOULD RECEIVE A 30' PROTECTIVE PERIMETER)
 - ALL PROTECTIVE FENCING SHALL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION.

2 VEGETATION PROTECTION
- DETAIL SCALE: NTS



- NOTES:**
- LOCATE STOCK AND/OR SPOIL PILES AWAY FROM DRAINAGE COURSES, DRAIN INLETS OR CONCENTRATED FLOWS OF STORMWATER.
 - ALL STOCK AND/OR SPOIL PILE PERIMETERS SHALL BE PROTECTED WITH TEMPORARY LINEAR SEDIMENT BARRIERS.
 - COVER ALL STOCK AND/OR SPOIL PILES WITH 6 MIL PLASTIC, CANVAS TARP OR IMPERVIOUS COVER TO PREVENT WIND AND RAIN EROSION. EVENLY SPACE WEIGHTS (GRAVEL BAGS) ON COVER TO KEEP IN PLACE DURING WIND.
 - CONDUCT REGULAR INSPECTIONS OF STOCK AND/OR SPOIL PILES DURING AND AFTER RAIN EVENTS
 - VERY LARGE STOCK AND/OR SPOIL PILES MAY REQUIRE SILT FENCE IN LIEU OF FIBER ROLLS.
 - REMOVE SPOIL PILES FROM CONSTRUCTION SITE AS SOON AS POSSIBLE.
 - STOCK/SPOIL PILES MUST BE STORED WITHIN THE APPROVED STAGING AREA.

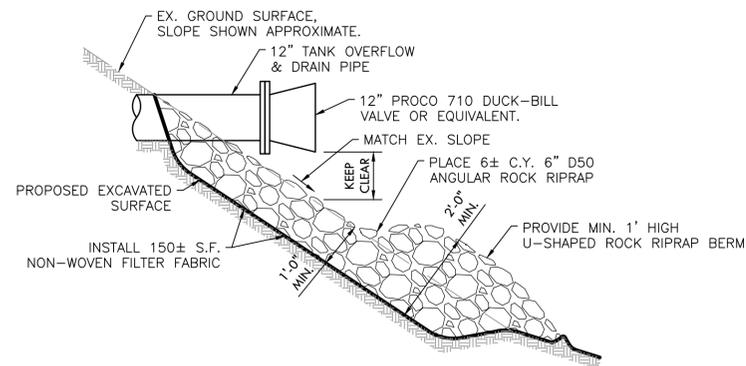
3 STOCKPILE RUNOFF CONTROL
- DETAIL SCALE: NTS



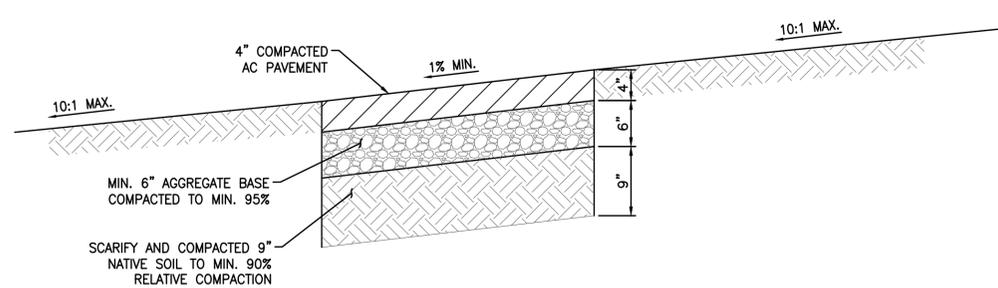
- NOTES:**
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE USED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS.
 - THE AGGREGATE SHALL BE 3" - 6" CRUSHED ROCK.
 - THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
 - THE ENTRANCE SHALL BE CONSTRUCTED ON LEVEL GROUND, WHERE FEASIBLE, AND LOCATED WHERE PERMANENT DRIVEWAY OR PARKING AREAS ARE PLANNED.
 - ADDITIONAL STONE SHALL BE PROVIDED WHEN SURFACE VOIDS ARE NO LONGER VISIBLE OR WHEN THERE IS FREQUENT OFF-SITE TRACKING. FREQUENT OFF-SITE TRACKING MAY INDICATE THE NEED FOR GRAVEL REPLACEMENT.
 - CONTRACTOR TO MAINTAIN CONSTRUCTION ENTRANCE AT ALL TIMES.
 - ALL SEDIMENT DEPOSITS ON PAVED ROADWAYS SHALL BE SWEEPED AND REMOVED DAILY OR MORE FREQUENTLY AS NEEDED.
 - LIMIT CONSTRUCTION TRAFFIC DURING WET WEATHER OR WHEN THE SITE IS SATURATED, MUDDY OR COVERED IN SNOW.
 - LIMIT SPEEDS OF INGRESS/EGRESS VEHICLES TO 5 M.P.H. OR LESS.
 - CONSTRUCTION ENTRANCE LOCATION IS SUBJECT TO APPROVAL OF THE OWNER.
 - CONTRACTOR SHALL REMOVE & RESTORE CONSTRUCTION ENTRANCE TO PRECONSTRUCTION CONDITION UNLESS DIRECTED OTHERWISE BY OWNER.

4 VEHICLE TRACKING CONTROL
- DETAIL SCALE: NTS

REV	DATE	DESCRIPTION	APP

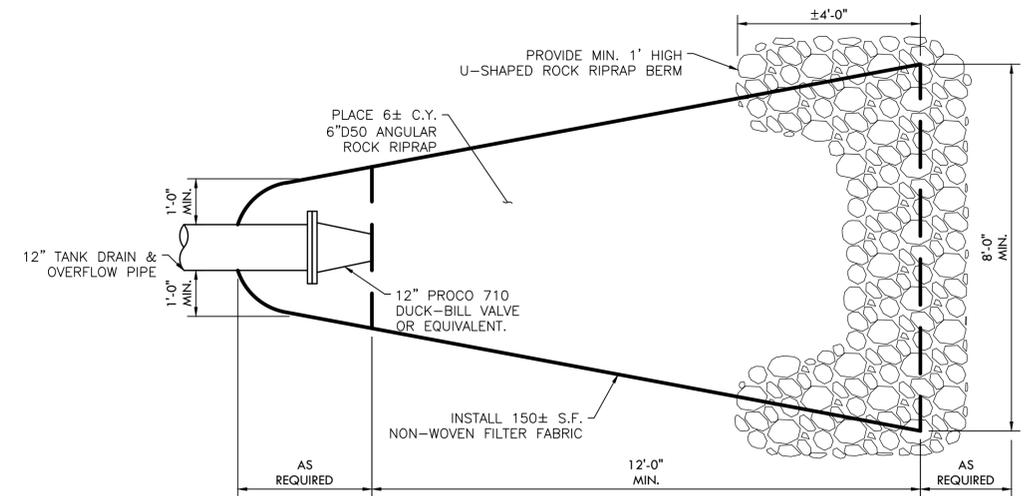


1 SAWMILL - TANK OVERFLOW OUTLET DETAIL - SIDE VIEW
DETAIL SCALE: NTS

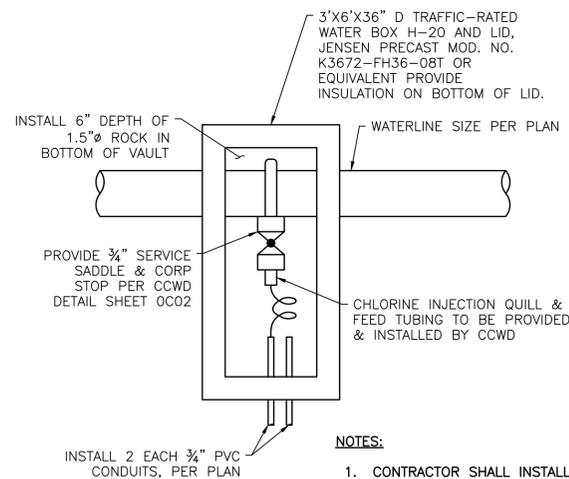


- NOTES:**
1. PROVIDE NECESSARY CUT AND FILL AS REQUIRED TO MEET PLAN GRADES.
 2. SOIL ADJACENT TO FINISH PAVEMENT SHALL BE TRANSITION FOR A MINIMUM DISTANCE OF 5' AT A MAXIMUM SLOPE OF 10:1.
 3. 1.5" ANGULAR ROCK SHALL BE PLACED ADJACENT TO PAVEMENT EDGES FOR A MINIMUM 5' WIDTH AT A MINIMUM DEPTH OF 3".

2 SAWMILL - PAVEMENT
DETAIL SCALE: NTS

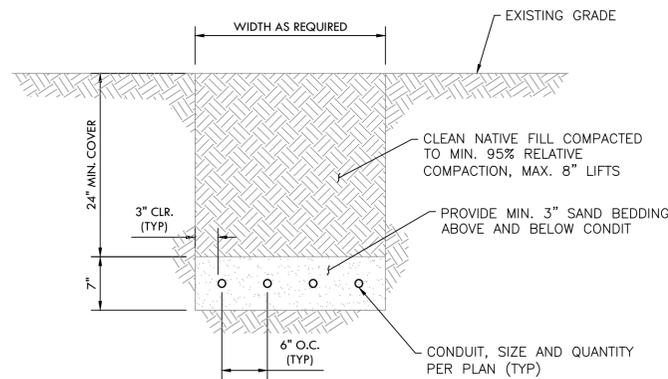


3 SAWMILL - TANK OVERFLOW OUTLET DETAIL - PLAN VIEW
DETAIL SCALE: NTS



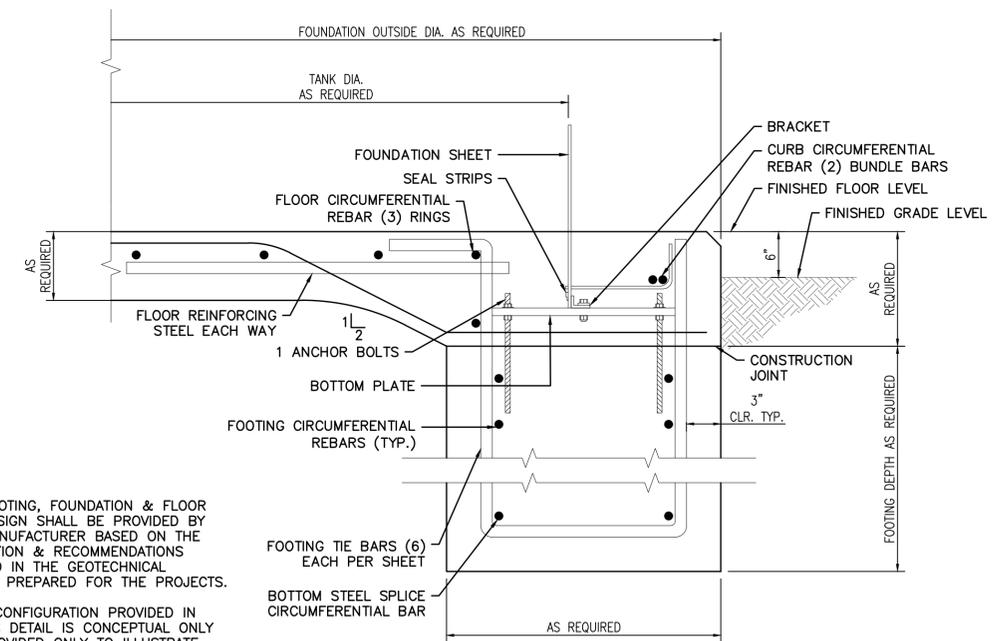
- NOTES:**
1. CONTRACTOR SHALL INSTALL PULL CORD IN ALL CONDUITS TO BE LEFT EMPTY.
 2. PROVIDE 2 EA. 1" CONDUIT BETWEEN VAULT AND CHLORINATION BUILDING.

4 SAWMILL - CHOLRINE INJECTION VAULT
DETAIL SCALE: NTS



- NOTES:**
1. PLACE "BURIED ELECTRICAL" WARNING TAPE 12" ABOVE CONDUIT IN CENTER OF TRENCH.
 2. ELECTRICAL CONDUIT TRENCH MY BE PLACED AS COMMON TRENCH WITH WATER LINE. IN SUCH INSTANCES, THE ELECTRICAL TRENCH SHALL BE PLACED ADJACENT TO PIPE TRENCH WITH A MINIMUM OF 6" CLEAR FROM THE PIPE TRENCH WILL TO THE CLOSEST CONDUIT. WHEN COMMON TRENCH IS USED, BACKFILL ABOVE THE CONDUIT SAND BEDDING SHALL BE IN ACCORDANCE WITH DETAIL G05 AND G05A ON SHEET 0C01.

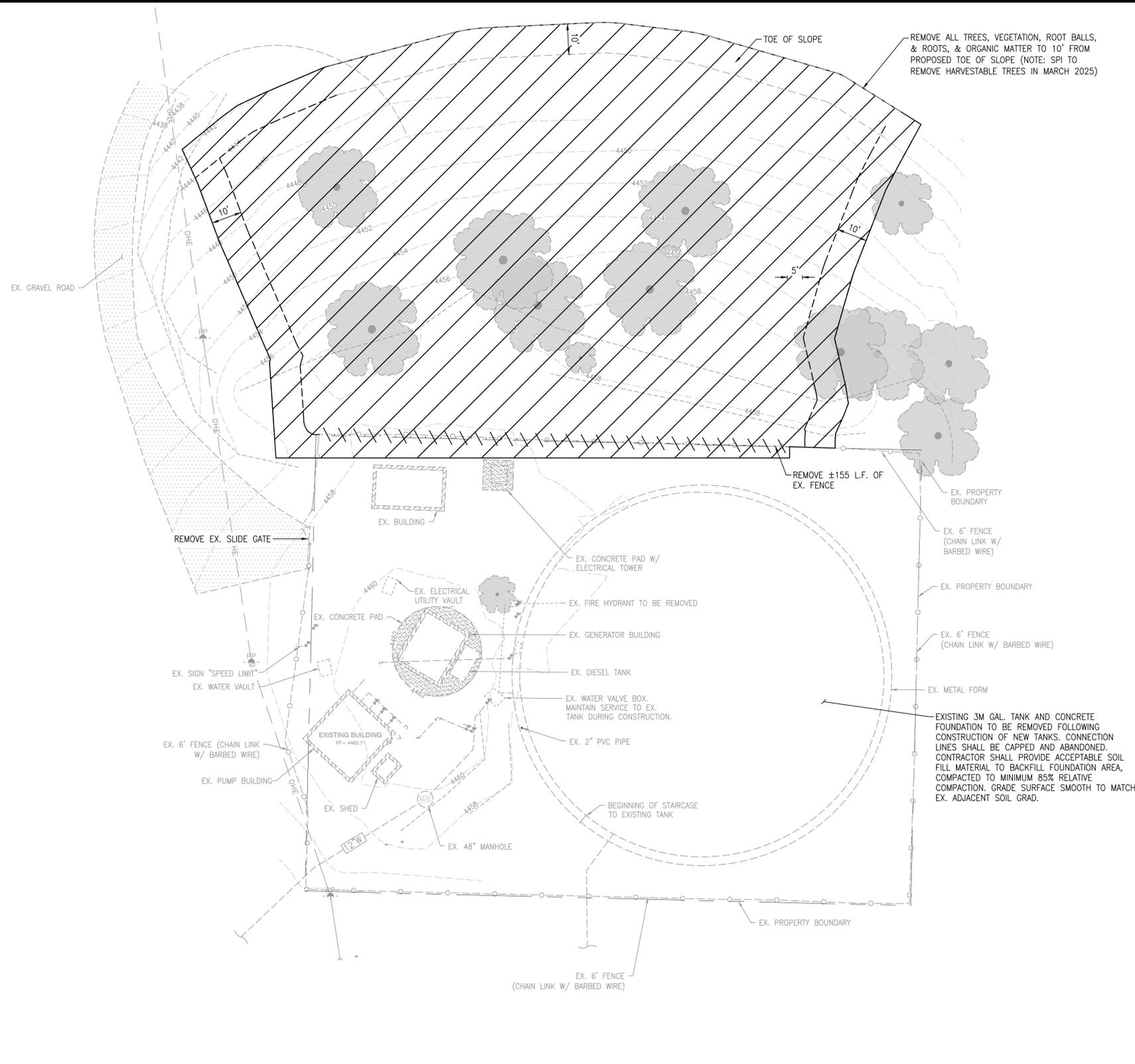
5 SAWMILL - CONDUIT DETAIL
DETAIL SCALE: NTS



- NOTES:**
1. TANK FOOTING, FOUNDATION & FLOOR SLAB DESIGN SHALL BE PROVIDED BY TANK MANUFACTURER BASED ON THE INFORMATION & RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORTS PREPARED FOR THE PROJECTS.
 2. DESIGN CONFIGURATION PROVIDED IN THE THIS DETAIL IS CONCEPTUAL ONLY & IS PROVIDED ONLY TO ILLUSTRATE THE EMBEDDED STEEL TANK WALL RING DESIGN DESIRED BY THE DISTRICT.
 3. FOOTING DETAIL - SEE DETAIL 0C03

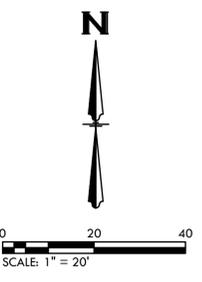
6 CONCEPTUAL EMBEDDED STEEL TANK WALL RING DETAIL
DETAIL SCALE: NTS

REV	DATE	DESCRIPTION	APP



- NOTES:**
1. ALL ITEMS TO BE REMOVED, OFF-HAULED AND DISPOSED OF AT AN APPROVED LOCATION AT NO ADDITIONAL EXPENSE TO DISTRICT.

EXISTING 3M GAL. TANK AND CONCRETE FOUNDATION TO BE REMOVED FOLLOWING CONSTRUCTION OF NEW TANKS. CONNECTION LINES SHALL BE CAPPED AND ABANDONED. CONTRACTOR SHALL PROVIDE ACCEPTABLE SOIL FILL MATERIAL TO BACKFILL FOUNDATION AREA, COMPACTED TO MINIMUM 85% RELATIVE COMPACTION. GRADE SURFACE SMOOTH TO MATCH EX. ADJACENT SOIL GRAD.



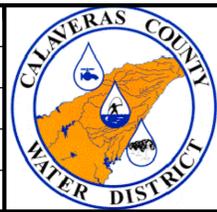
FINAL PLANS

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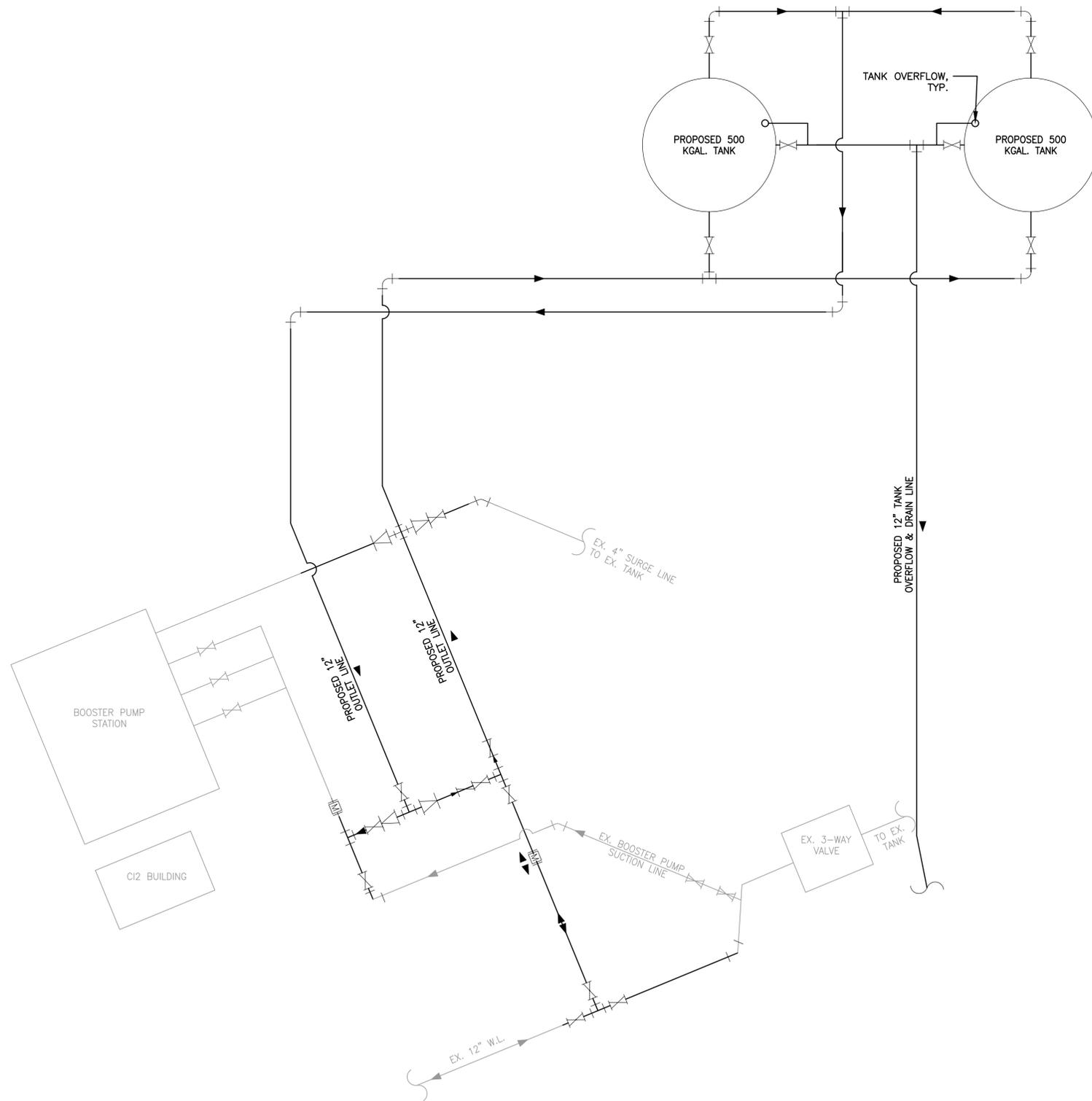
CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
SAWMILL TANK SITE - TOPOGRAPHY AND DEMOLITION PLAN

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

DRAWING NO.
1C01
SHEET NO.
10 OF 29

LEGEND

-  90° ELBOW
-  TEE
-  GATE VALVE
-  EXISTING GATE VALVE
-  CHECK VALVE
-  METER
-  WATER FLOW DIRECTION
-  WATER LINE
-  EX. WATER FLOW DIRECTION
-  EX. WATER LINE



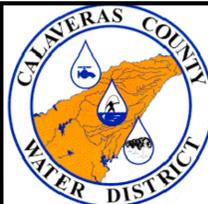
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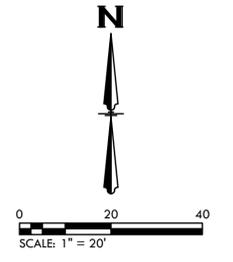
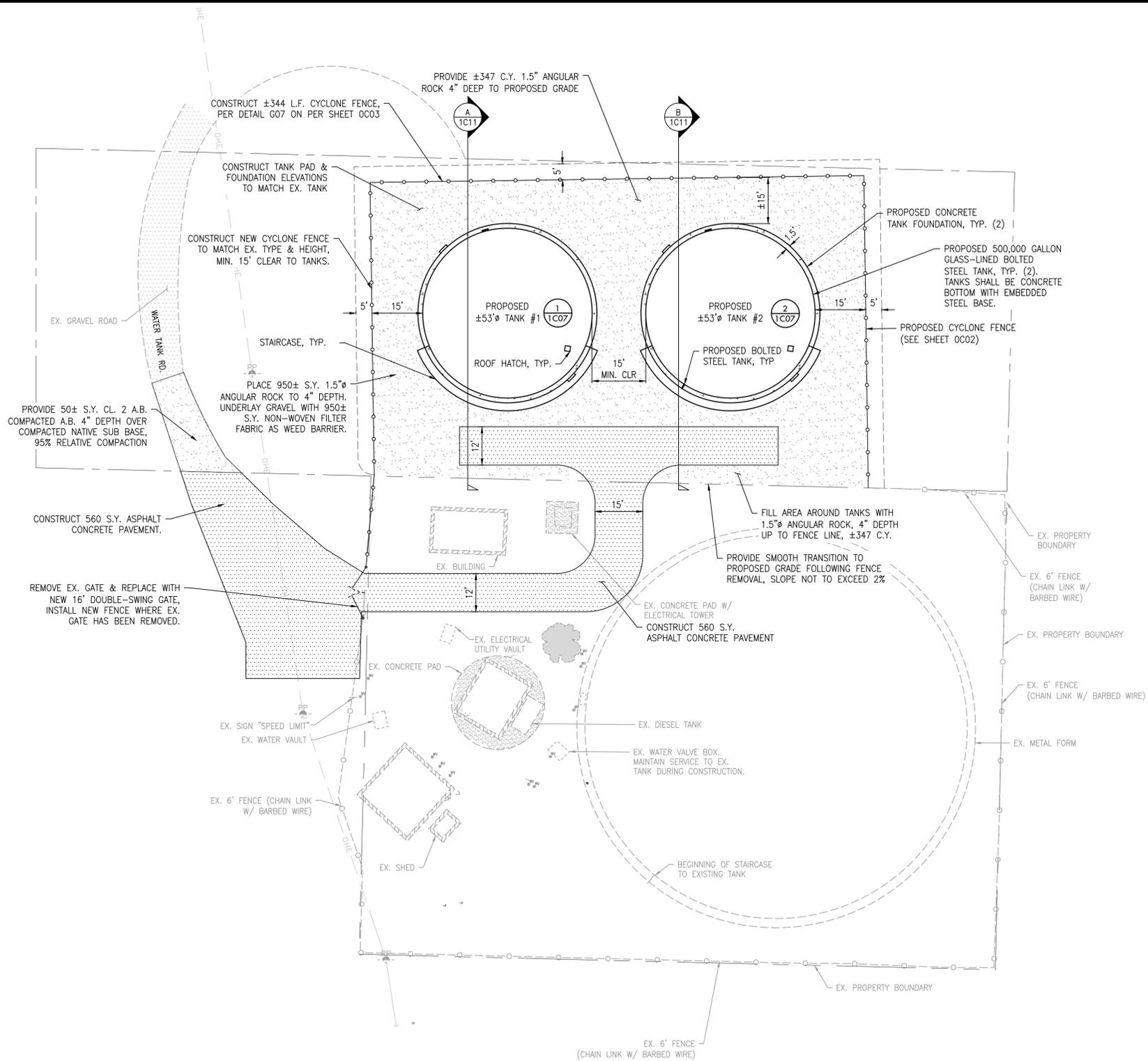


CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
SAWMILL TANK SITE - PROPOSED PROCESS FLOW DIAGRAM

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LUI N. ZANIMOVICH III
No. C57769
CIVIL
STATE OF CALIFORNIA
08/29/2025

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CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

SAWMILL TANK SITE - SITE PLAN

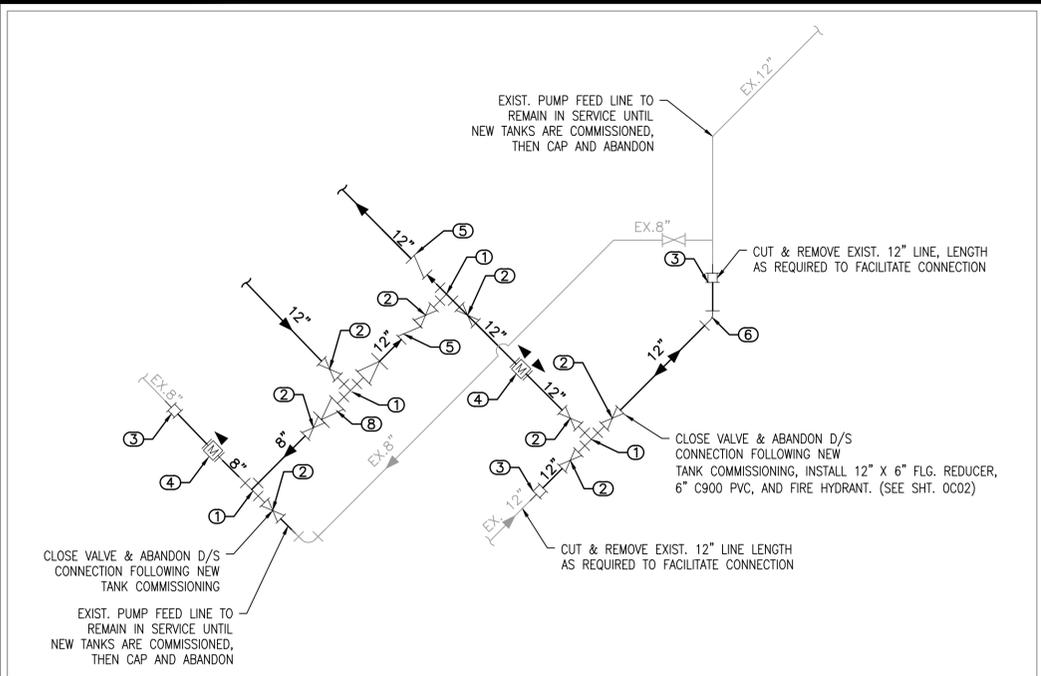
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0 1"

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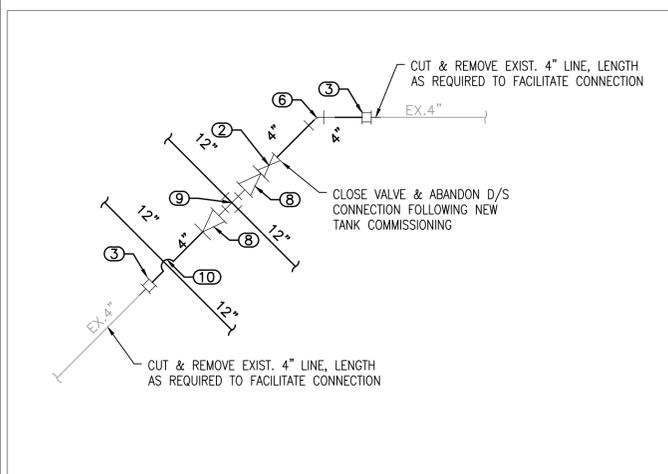
DRAWING NO.
1C03

SHEET NO.
12 OF 29



1 TANK INTERTIE AND VALVING
DETAIL

SCALE: NTS



2 TANK INTERTIE AND VALVING
DETAIL

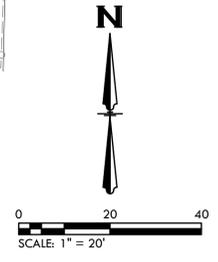
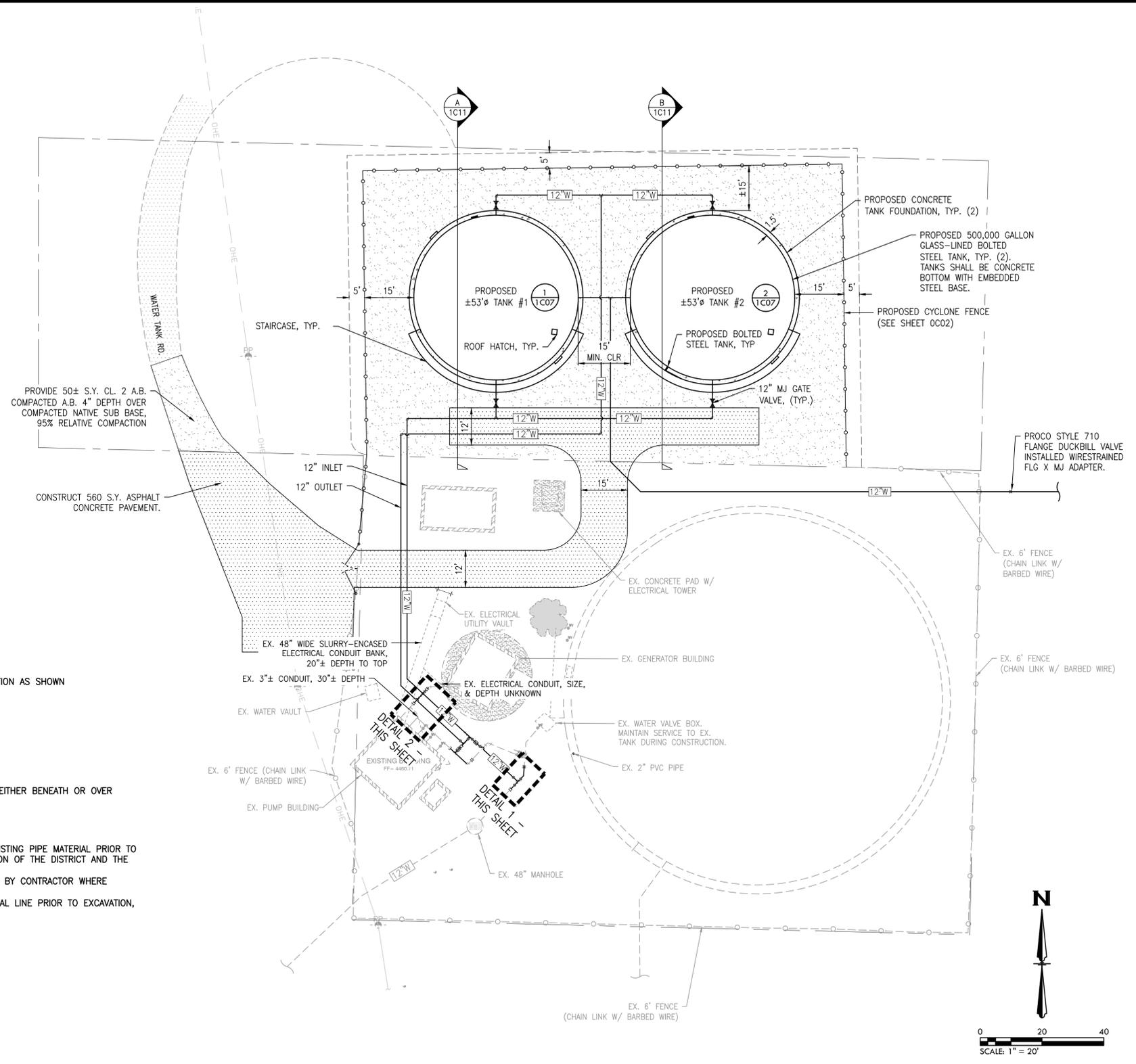
SCALE: NTS

LEGEND

- ① FLG X FLG TEE
- ② FLG X MJ GATE VALVE
- ③ ROMAC 501 LONG BARREL COUPLING OR EQUIV.
- ④ MAGNETIC FLOWMETER, DIRECTION AS SHOWN
- ⑤ FLG X FLG APCO CSC STYLE 600A OR APPROVED EQUIV. CHECK VALVE, DIRECTION AS SHOWN
- ⑥ ANGLE BEND AS REQUIRED (FIELD VERIFY)
- ⑦ FLG X FLG GATE VALVE
- ⑧ FLG X FLG REDUCER
- ⑨ FLG X FLG CROSS
- ⑩ CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED FOR NEW PIPE TO PASS EITHER BENEATH OR OVER ADJACENT PIPE WITH MINIMUM COVER AND 1' SEPARATION

NOTES

- 1) CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS, DEPTHS, SIZES AND EXISTING PIPE MATERIAL PRIOR TO CONSTRUCTION. ANY PLAN DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT AND THE ENGINEER.
- 2) FLG X MJ COUPLING ADAPTERS AND PIPE/FITTING RESTRAINTS TO BE PROVIDED BY CONTRACTOR WHERE REQUIRED OR DIRECTED BY THE ENGINEER.
- 3) CONTRACTOR TO WORK WITH COWD RELATIVE TO LOCATION OF BURIED ELECTRICAL LINE PRIOR TO EXCAVATION, AND SHALL POTHOLE AND VERIFY SUCH LOCATIONS PRIOR TO STARTING.



FINAL PLANS

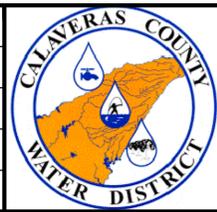
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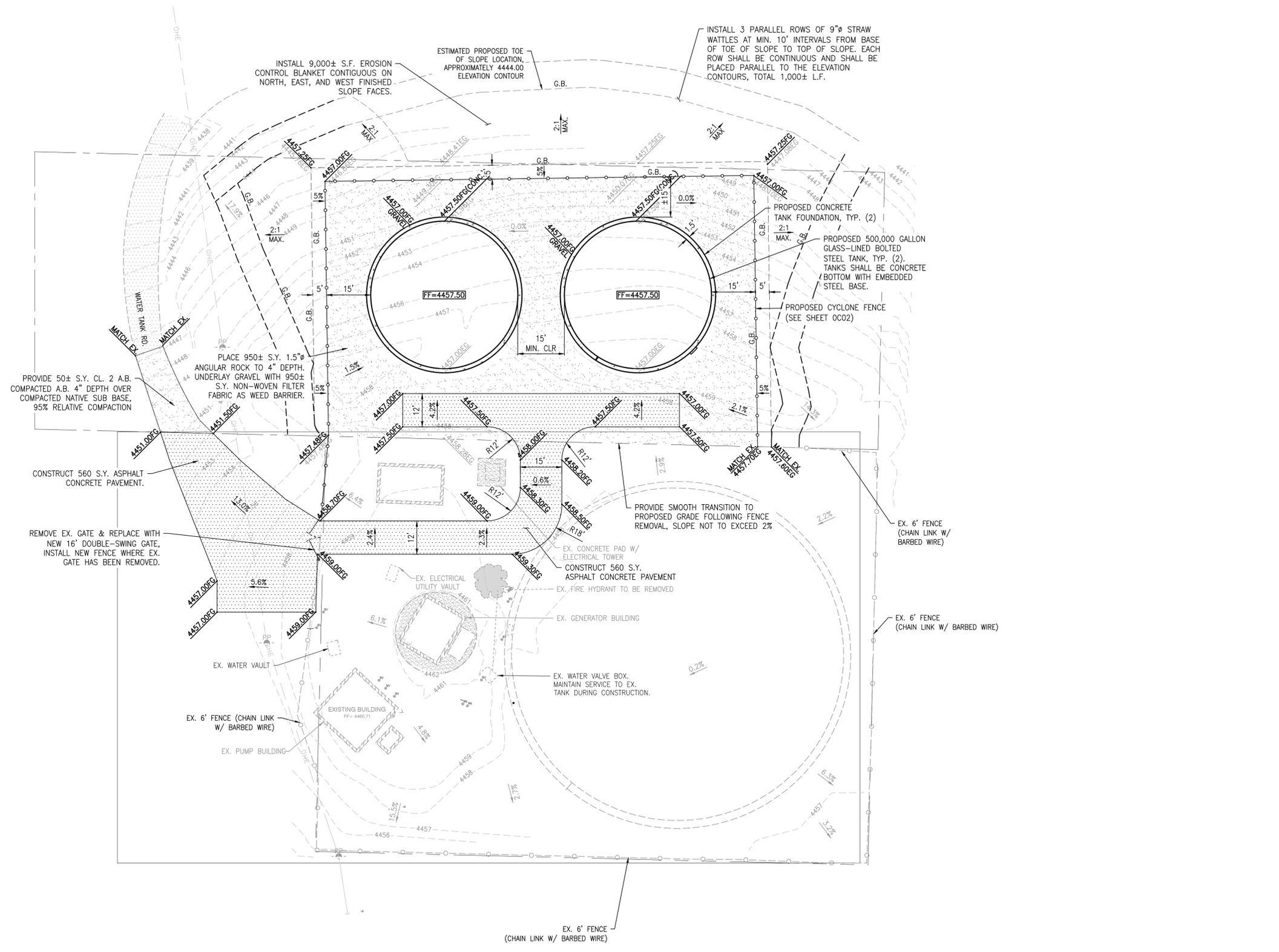


CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

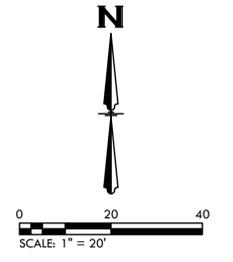
SAWMILL TANK SITE - PIPING PLAN

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DRAWING NO.
1C04
SHEET NO.
13 OF 29



- NOTE:**
1. STRAW WATTLES AND EROSION CONTROL BLANKETS SHALL BE CERTIFIED WEED AND SEED-FREE.
 2. STRAW WATTLES AND EROSION CONTROL BLANKETS SHALL BE INSTALLED AND ANCHORED PER MANUFACTURER'S RECOMMENDATIONS.
 3. EROSION CONTROL BLANKET SHALL BE BIODEGRADABLE, FREE OF PLASTIC NETTING (WILDLIFE-FRIENDLY) WITH JUTE OR EQUIVALENT (WILDLIFE-FRIENDLY) WITH JUTE OR EQUIVALENT THREADING STRANDS THAT ARE CAPABLE OF MOVING INDEPENDENTLY. PRODUCT SHALL BE AMERICAN EXCELSIOR COMPANY PREMIER STRAW DOUBLE-NET FIBERNET, OR APPROVED EQUIVALENT.
 4. ALL DISTURBED AREAS ON THE SITE NOT DIRECTLY ADDRESSED WITH EXPLICIT EROSION CONTROL MEASURES SHALL BE COVERED WITH MIN. 3" DEPTH OF WOOD CHIPS OR PINE NEEDLES PRIOR TO COMPLETION OF CONSTRUCTION.
 5. TEMPORARY CONSTRUCTION BMPs SHALL BE INSTALLED AROUND BASES OF SLOPES WHERE RUNOFF MAY OCCUR AROUND PROJECT AREA. SEE BMP DETAIL SHEET 0C03 & 0C04.



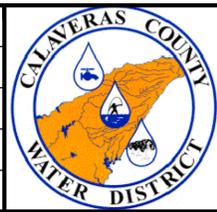
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CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

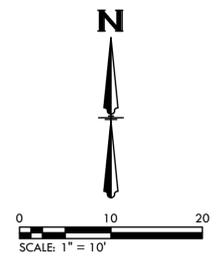
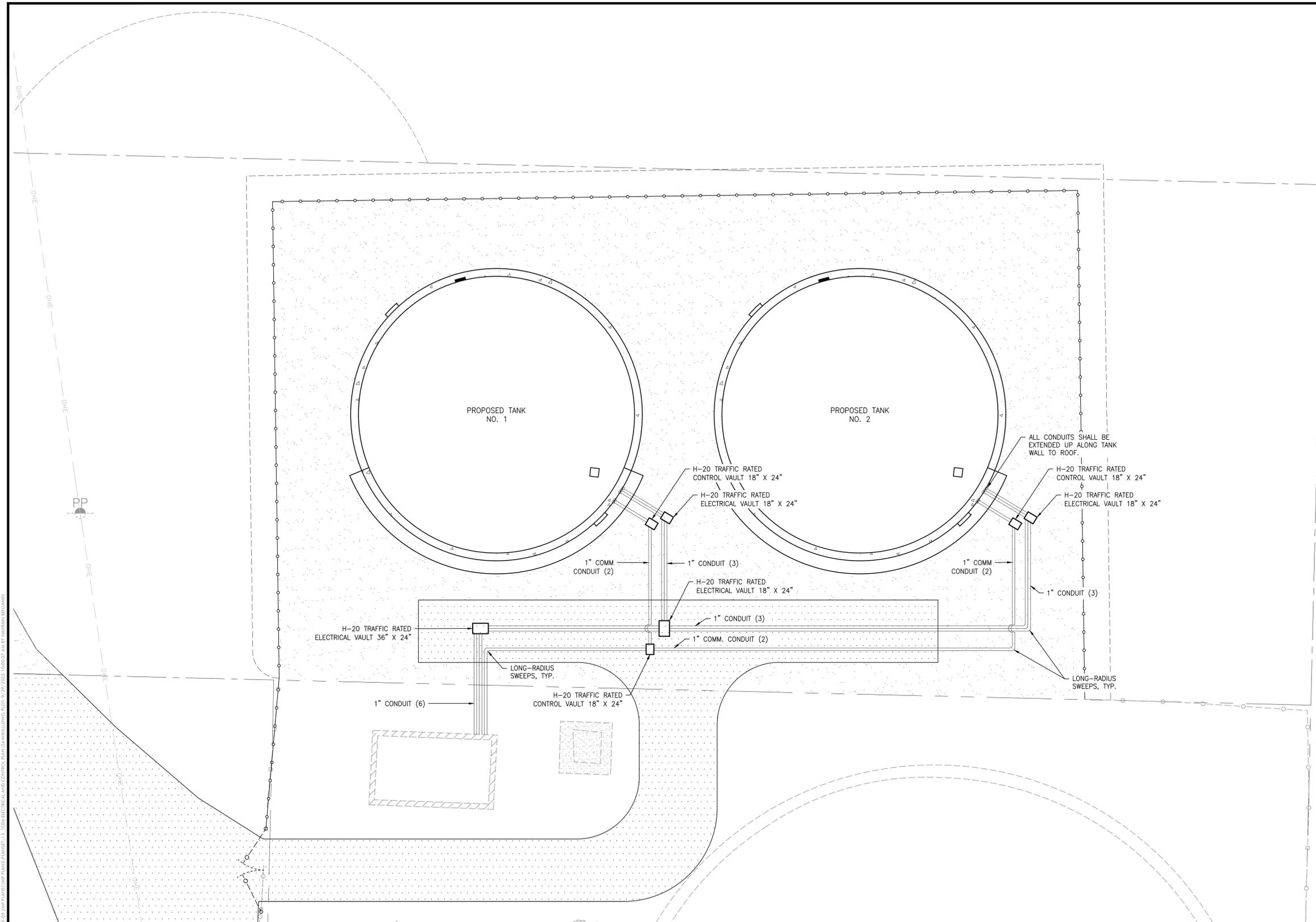
SAWMILL TANK SITE - GRADING PLAN

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DRAWING NO.
1C05
SHEET NO.
14 OF 29

NOTE:

1. CONTRACTOR TO ROUTE CONDUIT TO AVOID OBSTRUCTION WITH STAIRCASE ALIGNMENT.
2. CONTRACTOR TO ROUTE CONDUIT INTO EX. PANELS PER DISTRICT INSTRUCTION.
3. CONTRACTOR SHALL PROVIDE ALL PULL BOXES, SWEEPS AND OTHER MATERIALS AS NEEDED TO INSTALL CONDUIT.
4. ALL ABOVE-GROUND EXPOSED CONDUIT SHALL BE RMT FOR A MIN. 8' HEIGHT. EMT 15 PERMISSIBLE FOR EXPOSED CONDUIT ABOVE 8'.
5. ALL CONDUIT PLACED ON TANK ROOF SHALL BE SECURELY ANCHORED TO PREVENT MOVEMENT FROM SLIDING SNOW.
6. CONDUIT SHALL BE TERMINATED INTO SIDE OF ROOF HATCH RISER, OPPOSITE OF THE ACCESS SIDE.
7. ALL BURIED CONDUIT SHALL BE PVC COATED RIGID GALVANIZED STEEL.
8. ALL EXPOSED STEEL THREADS AT JOINTS SHALL BE THOROUGHLY WRAPPED WITH PVC TAPE.



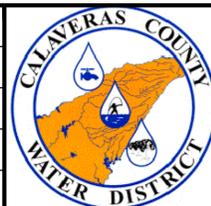
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CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

SAWMILL TANK SITE - ELECTRICAL AND CONTROLS CONDUIT PLAN

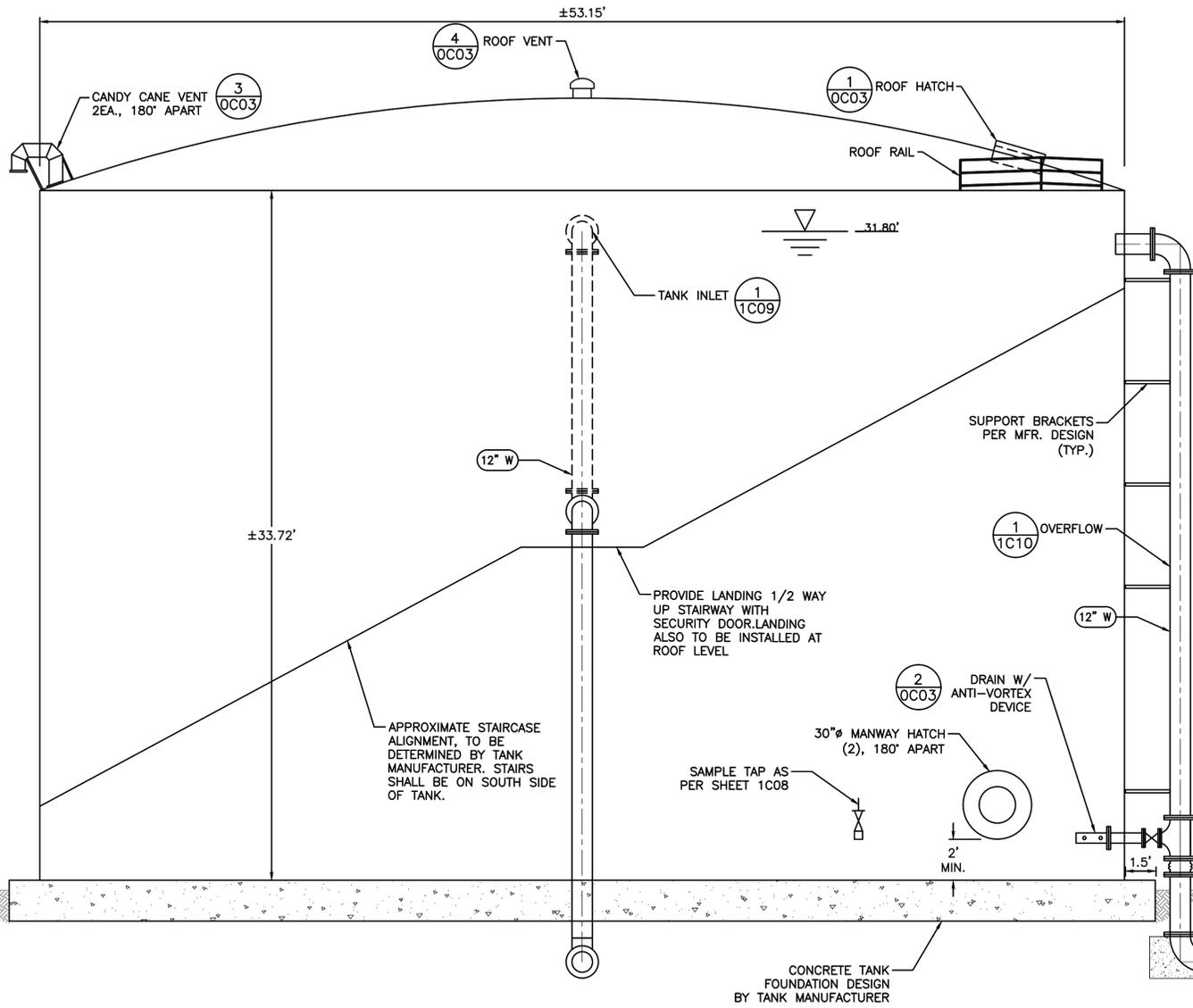
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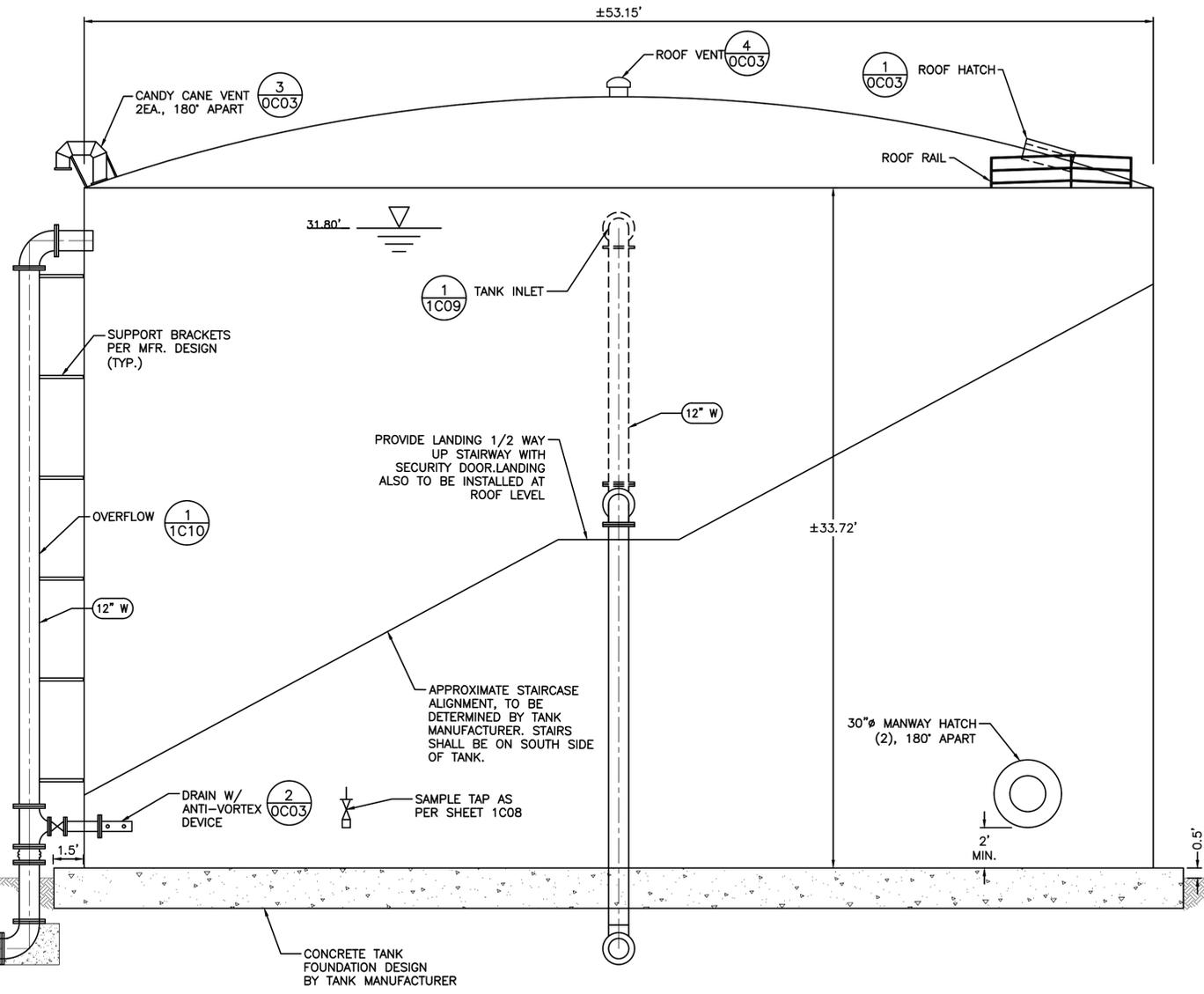
DRAWING NO.
1C06
SHEET NO.
15 OF 29

NOTES

- STAIRWAY SHALL BE SITUATED ON TANK TO OPTIMIZE SOUTH-FACING SUN EXPOSURE.
- STAIRS SHALL BE CONSTRUCTED OF GRATED METAL WITH SLIP-RESISTANT TREADS.
- SAFETY RAILINGS FOR STAIRS & AROUND HATCH SHALL MEET APPLICABLE BUILDING CODE, CAL-OSHA & OSHA REQUIREMENTS.
- TANK FREEBOARD SHALL BE DETERMINED PER AWWA D103-09 BY THE TANK MANUFACTURER FOR THE APPLICABLE SEISMIC CONDITIONS, BUT SHALL NOT EXCEED 4' MIN. USABLE STORAGE VOLUME PER TANK SHALL BE 500,000 GALLON.
- DIMENSIONS SHOWN MAY VARY ACCORDING TO FINAL APPROVED TANK SELECTION.
- TANK MANUFACTURER SHALL PROVIDE AN ENGINEERED MAGNESIUM INGOT SACRIFICIAL ANODE BASED SYSTEM FOR CORROSION CONTROL.
- TANK CONCEPTUAL DESIGN PROVIDED SUBJECT TO SPECIFIC TANK MANUFACTURER DESIGN. TANK MANUFACTURER SHALL BE RESPONSIBLE TO PROVIDE ALL MECHANICAL & STRUCTURAL DESIGN NECESSARY TO ACCOMMODATE THE FEATURES SHOWN AND SHALL SUBMIT ENGINEERED DESIGN/SHOP DRAWINGS TO DISTRICT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.



1 WATER STORAGE TANK #1 ELEVATION
1C03 DETAIL SCALE: NTS



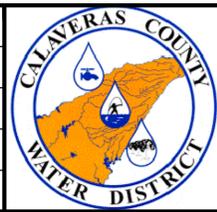
2 WATER STORAGE TANK #2 ELEVATION
1C03 DETAIL SCALE: NTS

FINAL PLANS



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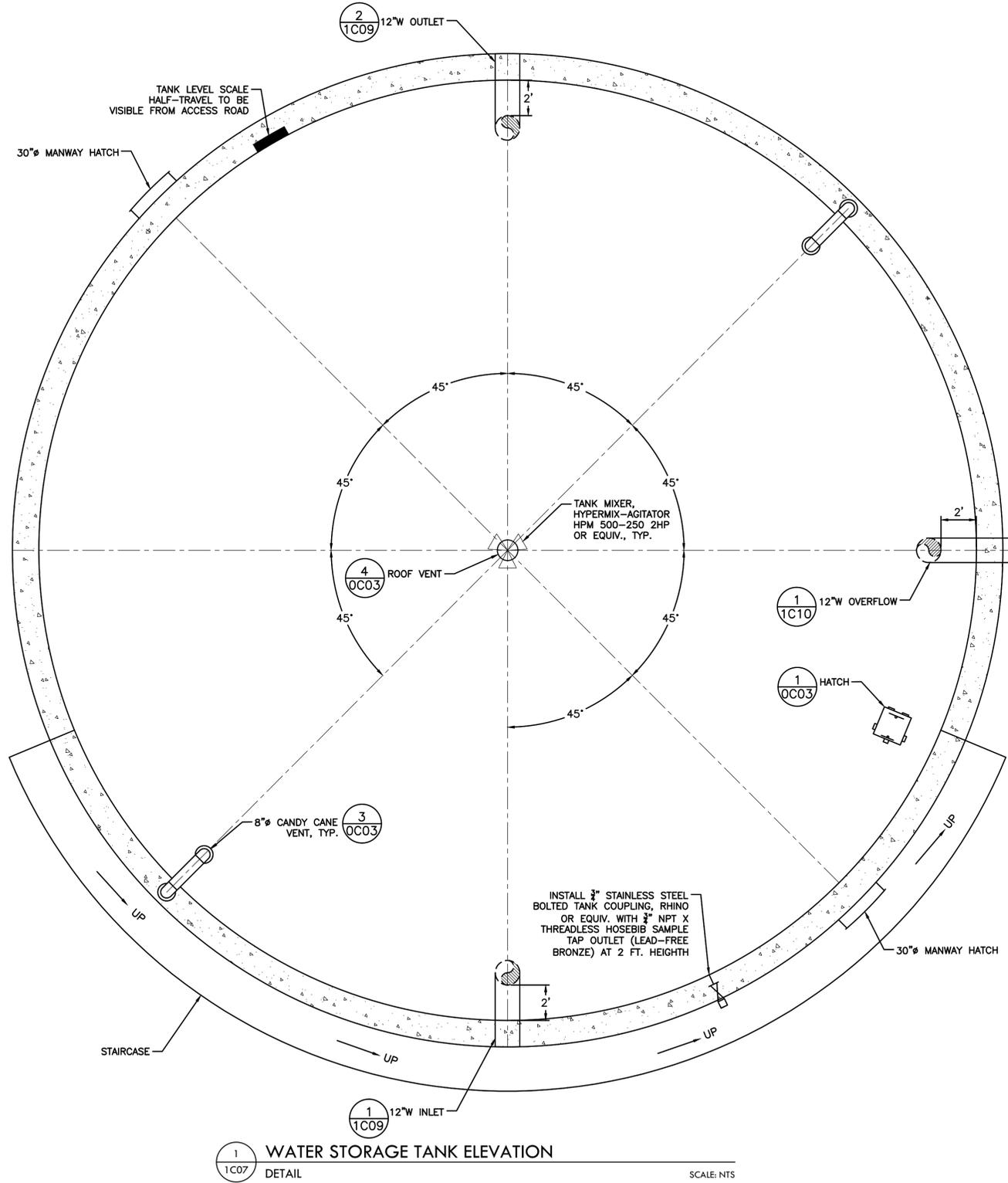
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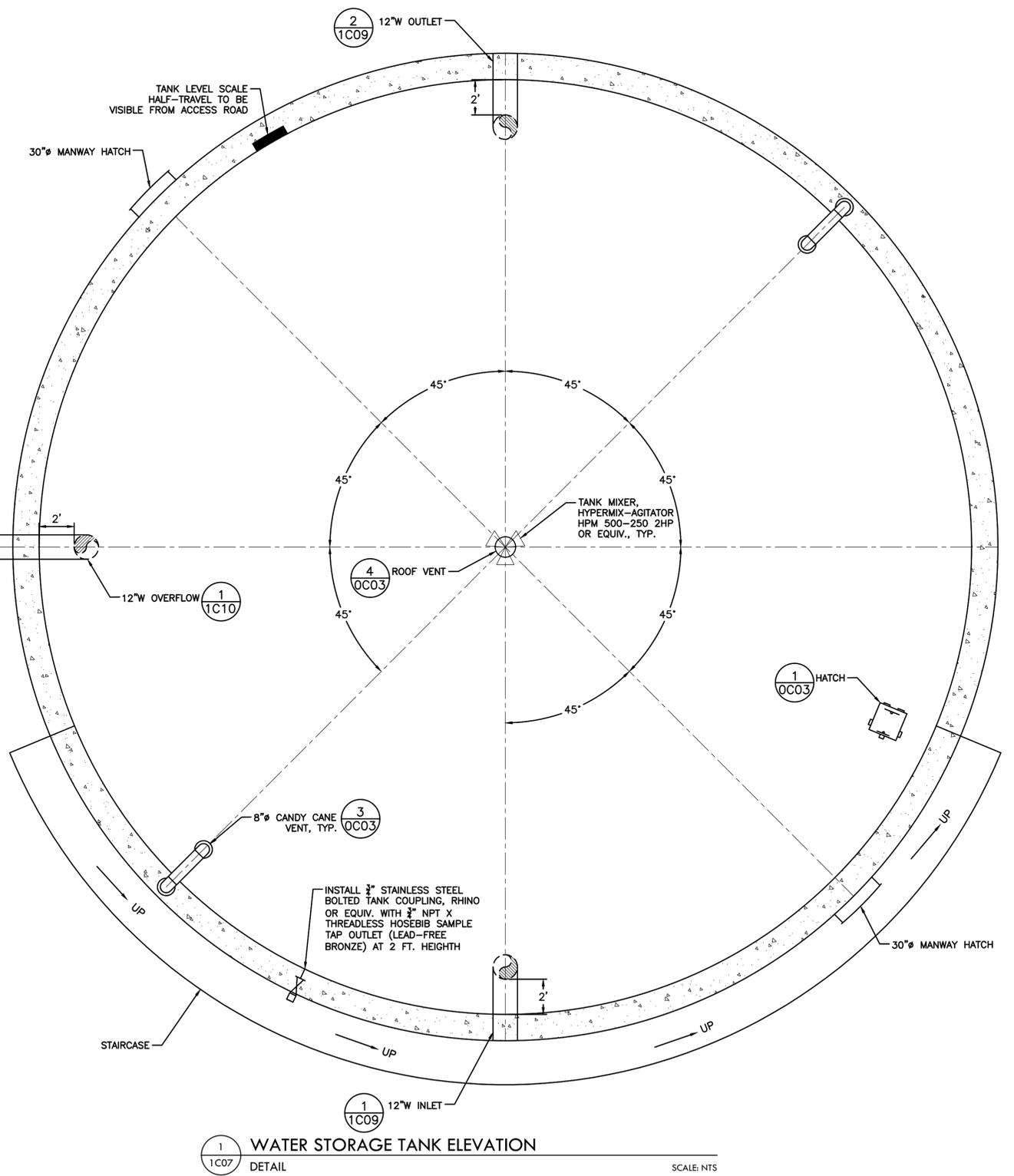
CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
SAWMILL TANK SITE - TANK DETAILS

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DRAWING NO. 1C07
SHEET NO. 16 OF 29



1 WATER STORAGE TANK ELEVATION
1C07 DETAIL SCALE: NTS



1 WATER STORAGE TANK ELEVATION
1C07 DETAIL SCALE: NTS

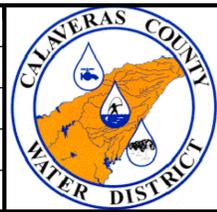
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LUIS JANIMOWICZ
No. C57769
CIVIL
STATE OF CALIFORNIA
09/29/2025

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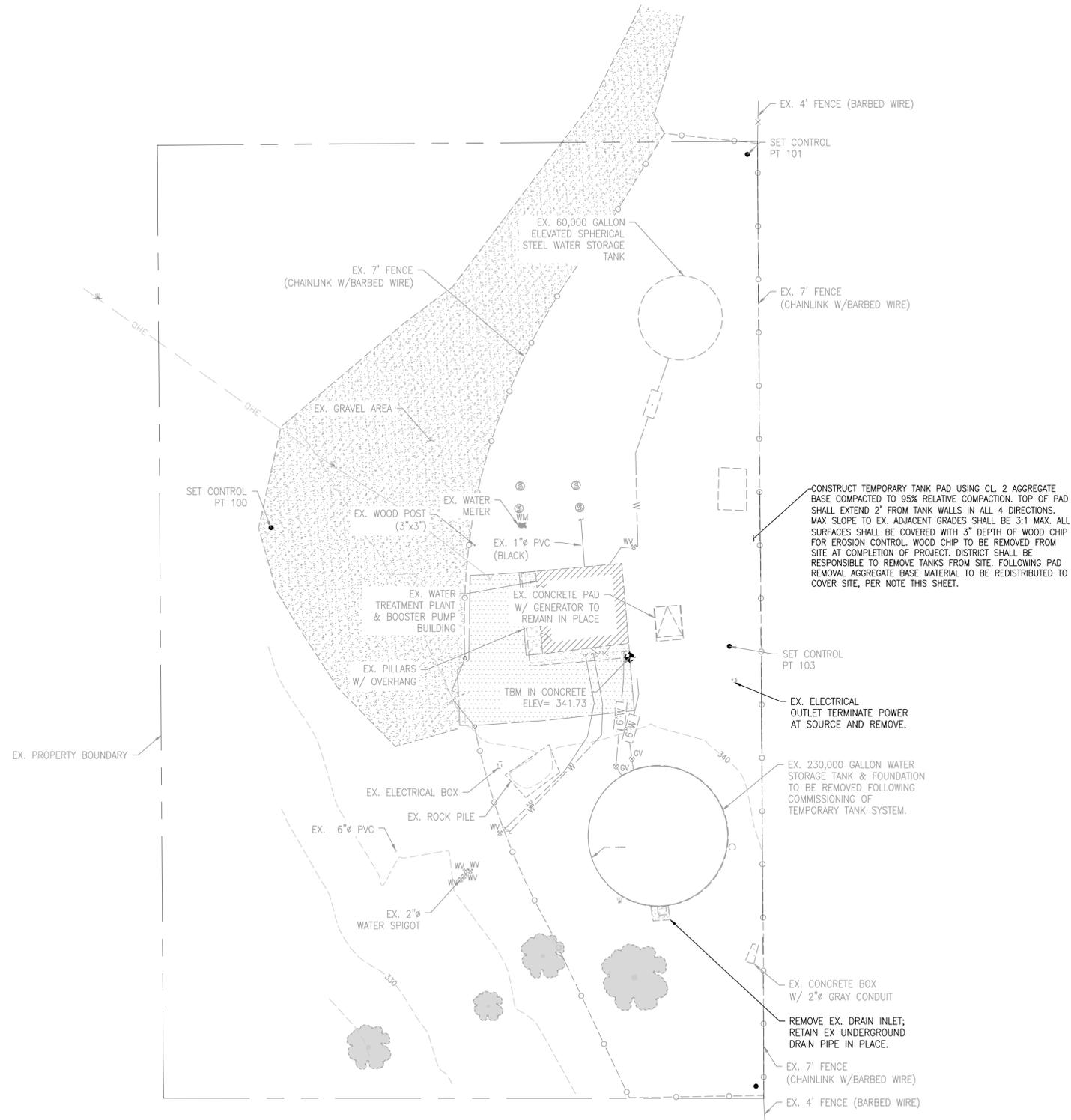
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CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
SAWMILL TANK SITE - TANK DETAILS

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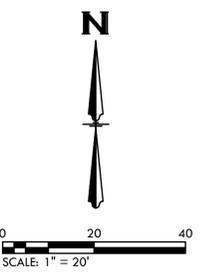
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1C08
SHEET NO.
17 OF 29



CONSTRUCT TEMPORARY TANK PAD USING CL. 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION. TOP OF PAD SHALL EXTEND 2' FROM TANK WALLS IN ALL 4 DIRECTIONS. MAX SLOPE TO EX. ADJACENT GRADES SHALL BE 3:1 MAX. ALL SURFACES SHALL BE COVERED WITH 3" DEPTH OF WOOD CHIP FOR EROSION CONTROL. WOOD CHIP TO BE REMOVED FROM SITE AT COMPLETION OF PROJECT. DISTRICT SHALL BE RESPONSIBLE TO REMOVE TANKS FROM SITE. FOLLOWING PAD REMOVAL AGGREGATE BASE MATERIAL TO BE REDISTRIBUTED TO COVER SITE, PER NOTE THIS SHEET.

EX. 230,000 GALLON WATER STORAGE TANK & FOUNDATION TO BE REMOVED FOLLOWING COMMISSIONING OF TEMPORARY TANK SYSTEM.

REMOVE EX. DRAIN INLET; RETAIN EX UNDERGROUND DRAIN PIPE IN PLACE.



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STATE OF CALIFORNIA
09/29/2025

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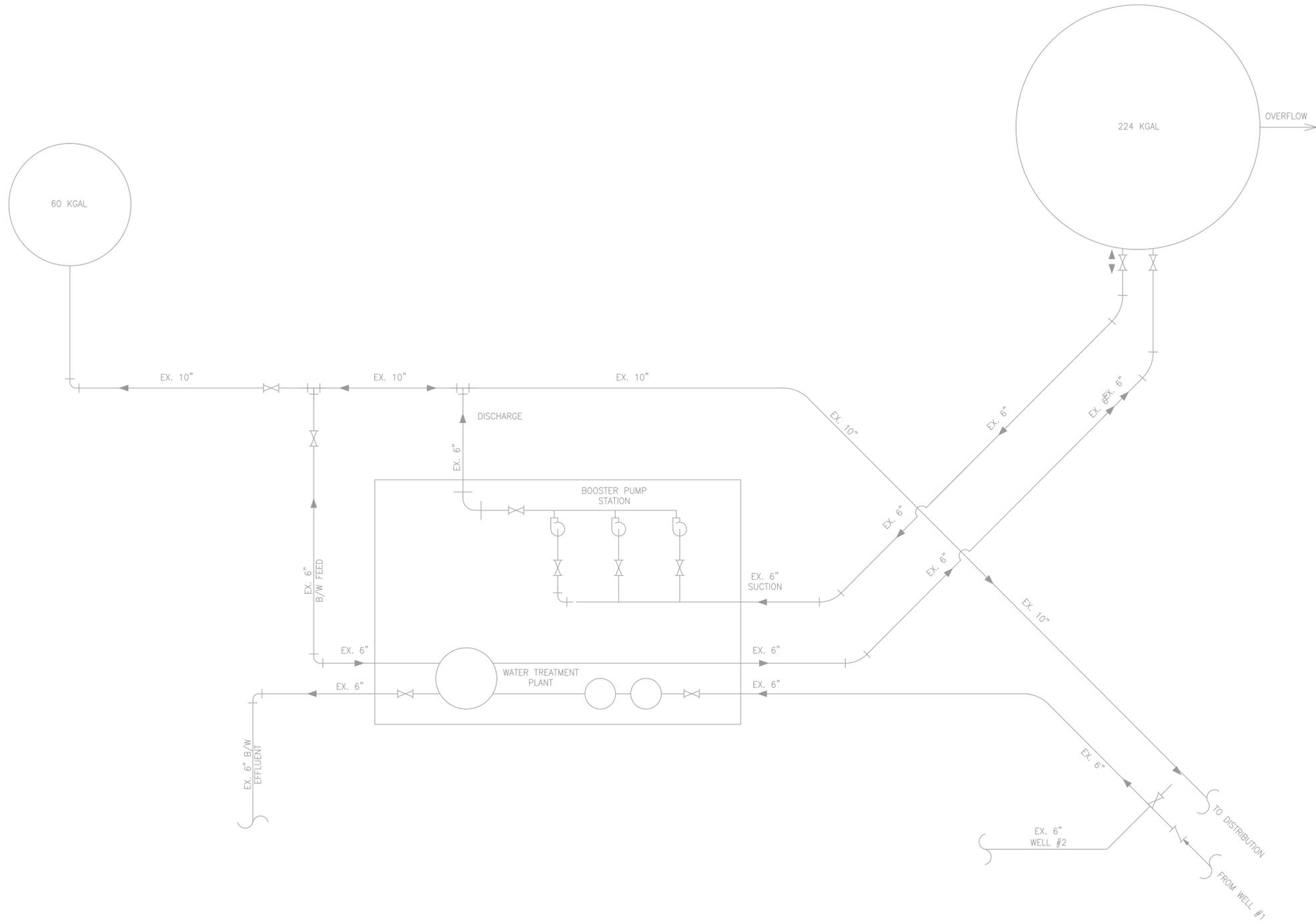
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CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
WALLACE TANK SITE - TOPOGRAPHY AND DEMOLITION PLAN

VERIFY SCALES
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DRAWING NO.
2C01
SHEET NO.
21 OF 29



PROGRESS FLOW DIAGRAM NOTES:
 1. NORMAL TEMP TANK OPERATION TO BE IN SERIES, NOT PARALLEL

PROGRESS FLOW LEGENDS:

SYMBOL	DESCRIPTION
	CHECK VALVE
	FLOW DIRECTION
	PUMP
	TEE

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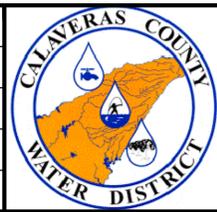
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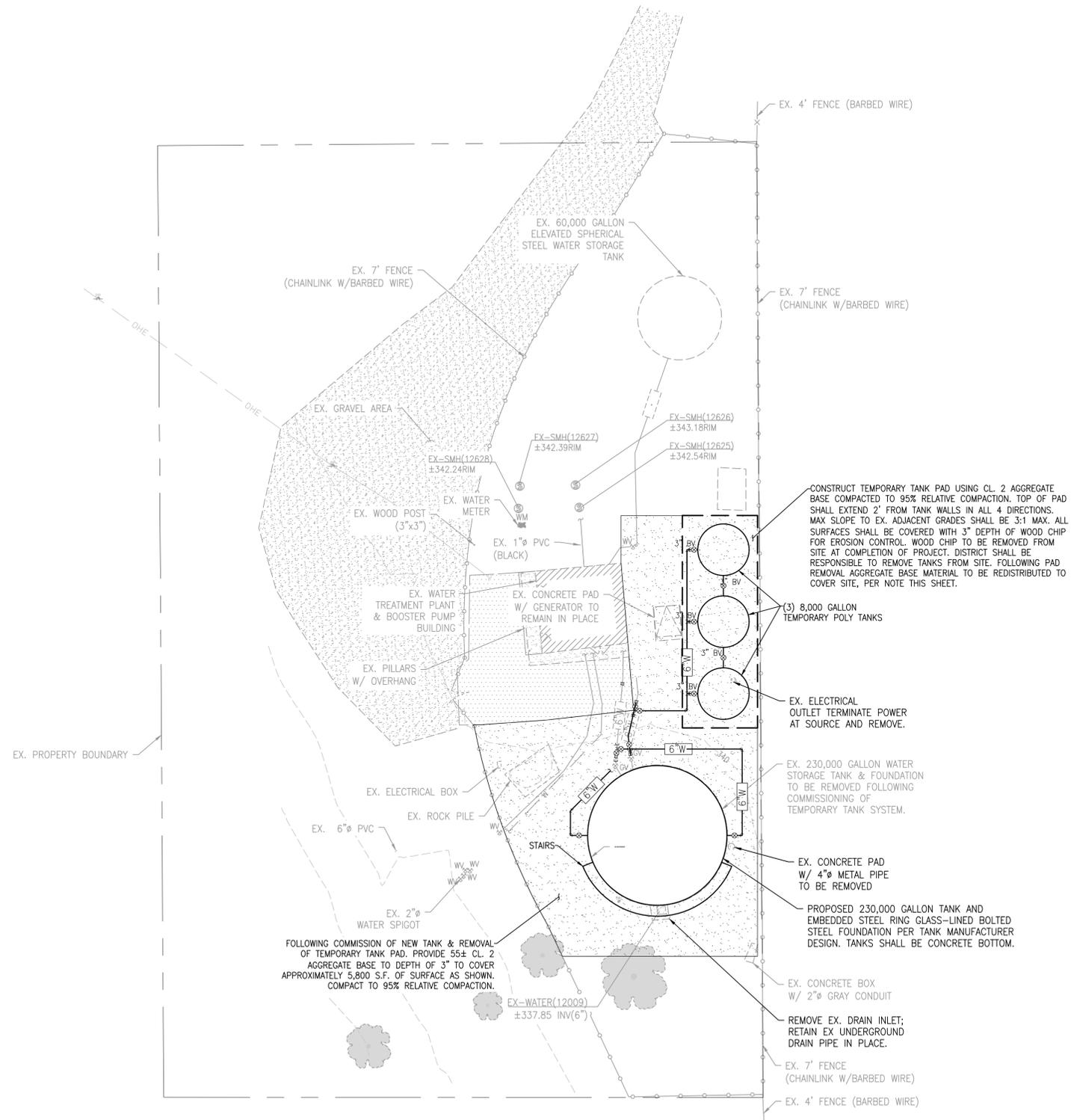


CALAVERAS COUNTY WATER DISTRICT
 WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
 WALLACE TANK SITE - EXISTING PROCESS FLOW DIAGRAM

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22 OF 29



CONSTRUCT TEMPORARY TANK PAD USING CL. 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION. TOP OF PAD SHALL EXTEND 2' FROM TANK WALLS IN ALL 4 DIRECTIONS. MAX SLOPE TO EX. ADJACENT GRADES SHALL BE 3:1 MAX. ALL SURFACES SHALL BE COVERED WITH 3" DEPTH OF WOOD CHIP FOR EROSION CONTROL. WOOD CHIP TO BE REMOVED FROM SITE AT COMPLETION OF PROJECT. DISTRICT SHALL BE RESPONSIBLE TO REMOVE TANKS FROM SITE. FOLLOWING PAD REMOVAL AGGREGATE BASE MATERIAL TO BE REDISTRIBUTED TO COVER SITE, PER NOTE THIS SHEET.

EX. 230,000 GALLON WATER STORAGE TANK & FOUNDATION TO BE REMOVED FOLLOWING COMMISSIONING OF TEMPORARY TANK SYSTEM.

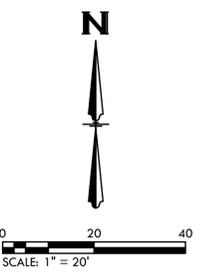
EX. CONCRETE PAD W/ 4" METAL PIPE TO BE REMOVED

PROPOSED 230,000 GALLON TANK AND EMBEDDED STEEL RING GLASS-LINED BOLTED STEEL FOUNDATION PER TANK MANUFACTURER DESIGN. TANKS SHALL BE CONCRETE BOTTOM.

EX. CONCRETE BOX W/ 2" GRAY CONDUIT

REMOVE EX. DRAIN INLET; RETAIN EX. UNDERGROUND DRAIN PIPE IN PLACE.

FOLLOWING COMMISSION OF NEW TANK & REMOVAL OF TEMPORARY TANK PAD, PROVIDE 55± CL. 2 AGGREGATE BASE TO DEPTH OF 3" TO COVER APPROXIMATELY 5,800 S.F. OF SURFACE AS SHOWN. COMPACT TO 95% RELATIVE COMPACTION.



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REGISTERED PROFESSIONAL ENGINEER
L. L. LANIMOWICH III
No. 657769
CIVIL
STATE OF CALIFORNIA
08/29/2025

REV	DATE	DESCRIPTION	APP

PROJECT NO.
J24516/524
DESIGNED BY
NZ
DRAWN BY
JY
CHECKED BY
NZ
DATE
SEPTEMBER 2025



CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

WALLACE TANK SITE - SITE PLAN

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

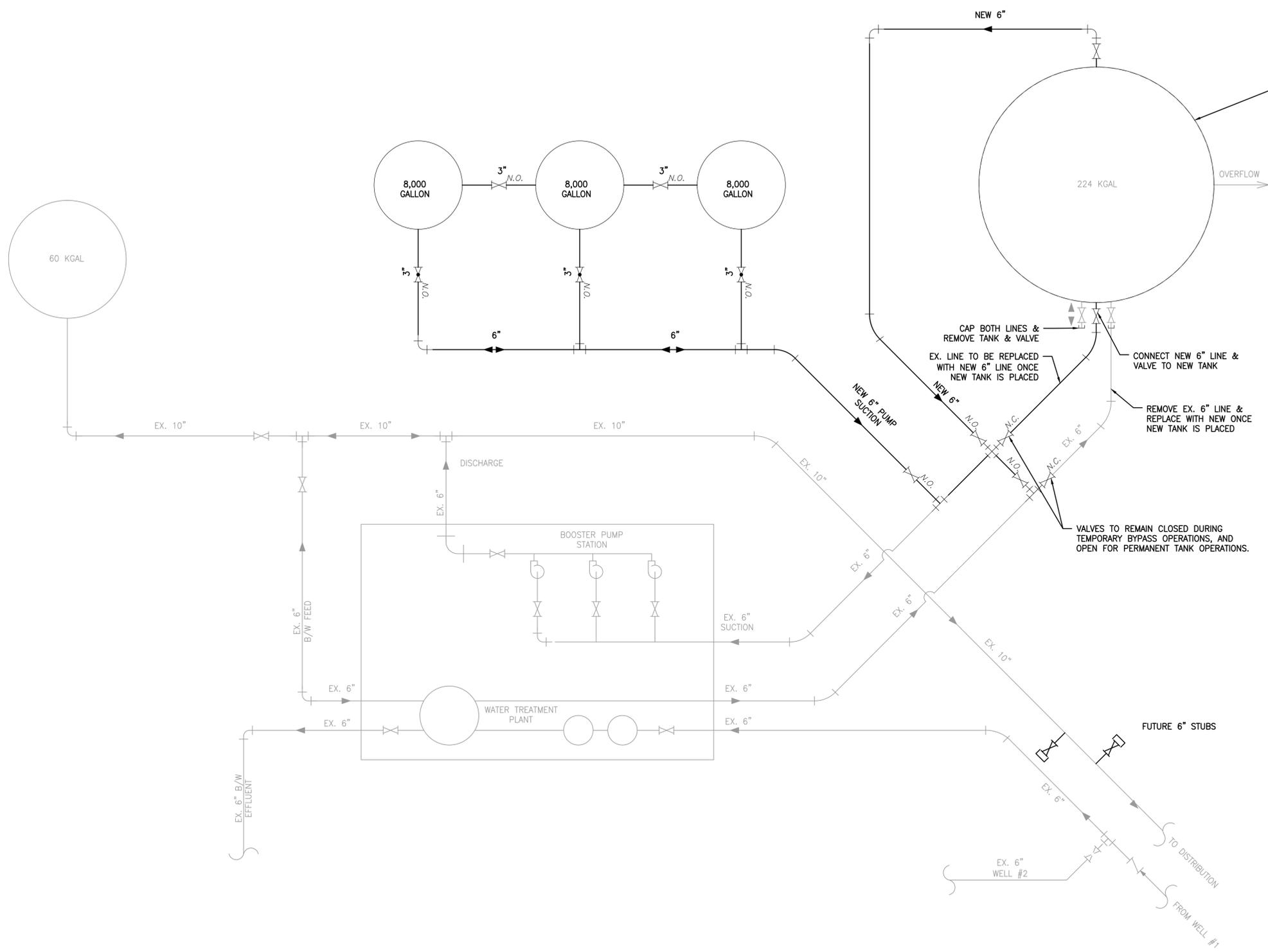
DRAWING NO.
2C03
SHEET NO.
23 OF 29

PROGRESS FLOW DIAGRAM NOTES:

1. NORMAL TEMP TANK OPERATION TO BE IN SERIES, NOT PARALLEL

PROGRESS FLOW LEGENDS:

SYMBOL	DESCRIPTION
▶	FLOW DIRECTION
⊞	PUMP
⊕	TEE
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED (FOR TEMPORARY BYPASS OPERATIONS ONLY)
⌵	GATE VALVE
⌵	BALL VALVE



REMOVE EX. TANK & CONCRETE FOUNDATION & REPLACE WITH NEW CONCRETE FOUNDATION & 240 KGAL TANK.

CAP BOTH LINES & REMOVE TANK & VALVE
 EX. LINE TO BE REPLACED WITH NEW 6" LINE ONCE NEW TANK IS PLACED
 CONNECT NEW 6" LINE & VALVE TO NEW TANK
 REMOVE EX. 6" LINE & REPLACE WITH NEW ONCE NEW TANK IS PLACED
 VALVES TO REMAIN CLOSED DURING TEMPORARY BYPASS OPERATIONS, AND OPEN FOR PERMANENT TANK OPERATIONS.

NOTES

1. TEMPORARY TANK LINES TO BE PLACED ABOVE GROUND.
2. TEMPORARY BYPASS VALVES TO BE CAPPED ONCE TEMPORARY BYPASS LINES HAVE BEEN REMOVED.

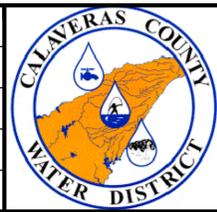
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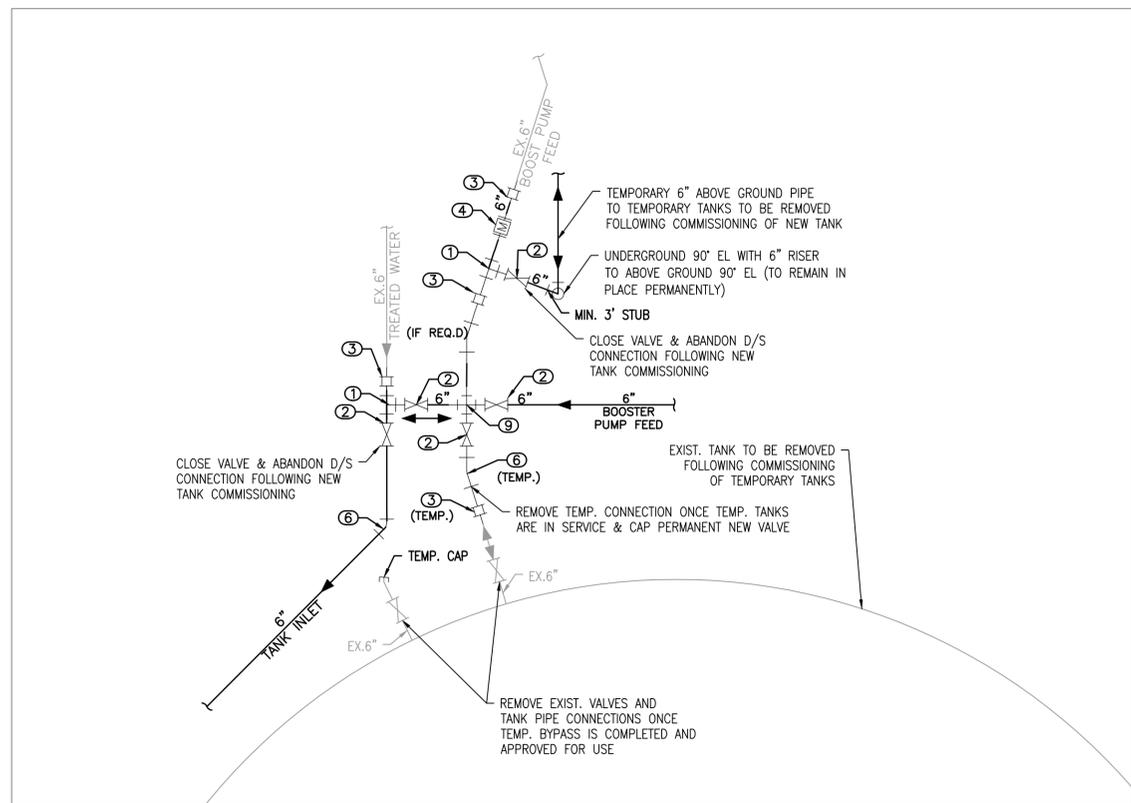


CALAVERAS COUNTY WATER DISTRICT
 WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
 WALLACE TANK SITE - PROPOSED PROCESS FLOW DIAGRAM

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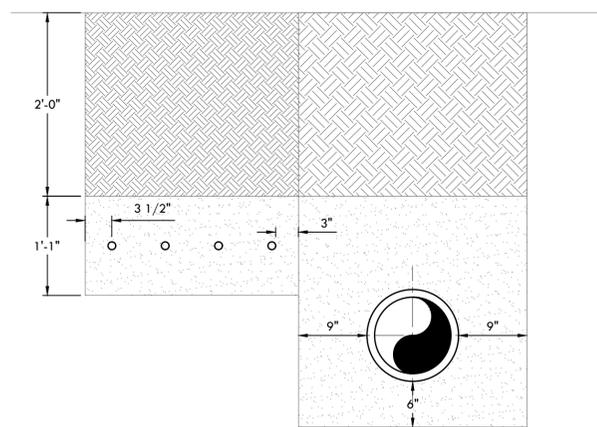
1
DETAIL 1
SCALE: NTS

LEGEND

- ① FLG X FLG TEE
- ② FLG X MJ GATE VALVE
- ③ ROMAC 501 LONG BARREL COUPLING OR EQUIV.
- ④ MAGNETIC FLOWMETER, DIRECTION AS SHOWN
- ⑤ FLG X FLG APCO CSC STYLE 600A OR APPROVED EQUIV. CHECK VALVE, DIRECTION AS SHOWN
- ⑥ ANGLE BEND AS REQUIRED (FIELD VERIFY)
- ⑦ FLG X FLG GATE VALVE
- ⑧ FLG X FLG REDUCER
- ⑨ FLG X FLG CROSS
- ⑩ CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED FOR NEW PIPE TO PASS EITHER BENEATH OR OVER ADJACENT PIPE WITH MINIMUM COVER AND 1" SEPARATION

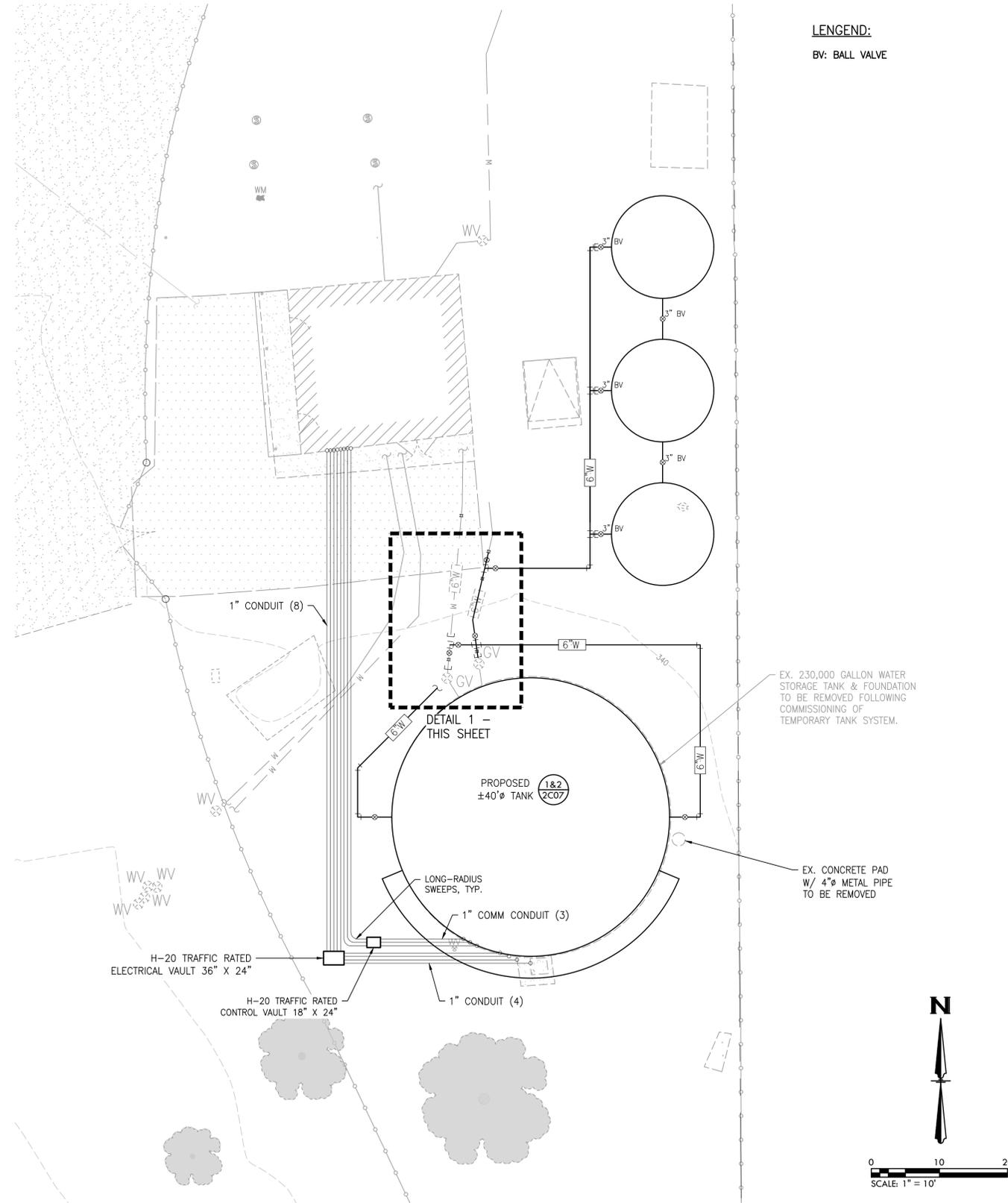
NOTES:

- 1) CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS, DEPTHS, SIZES AND EXISTING PIPE MATERIAL PRIOR TO CONSTRUCTION. ANY PLAN DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT AND THE ENGINEER
- 2) FLG X MJ COUPLING ADAPTERS AND PIPE/FITTING RESTRAINTS TO BE PROVIDED BY CONTRACTOR WHERE REQUIRED OR DIRECTED BY THE ENGINEER
- 3) CONTRACTOR SHALL FIELD VERIFY ALL PIPE DEPTHS, SIZES, AND TYPES PRIOR TO PERFORMING TEMPORARY OR PERMANENT INTERTIES.
- 4) CONTRACTOR SHALL LAYOUT ALL PIPE FITTINGS TO CONFIRM REQUIRED HARDWARE AND BEND ANGLES PRIOR TO INTERTIE SHUTDOWN(S). CONTRACTOR SHALL PERFORM ALL DUE DILIGENCE TO MINIMIZE REQUIRED SHUTDOWN TIME.
- 5) ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE SCHEDULED AND APPROVED BY DISTRICT A MINIMUM OF 72 HOURS IN ADVANCE OF THE PLANNED WORK.
- 6) ALL TEMPORARY ABOVE-GROUND PIPE SHALL BE HDPE, MINIMUM DR-11
- 7) ALL BURIED CONDUIT SHALL BE PVC COATED RIGID GALVANIZED STEEL.
- 8) ALL EXPOSED THREADS AT JOINTS SHALL BE THOROUGHLY WRAPPED WITH PVC TAPE.

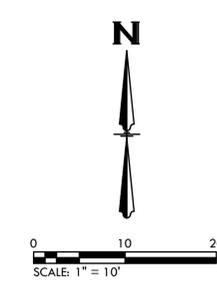


2
CONDUIT DETAIL
SCALE: NTS

NOTE:
1. TRENCH BEDDING AND BACKFILL PER CCWD DETAIL G05



LEGEND:
BV: BALL VALVE



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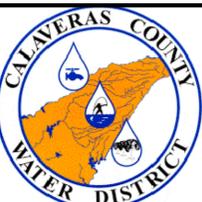
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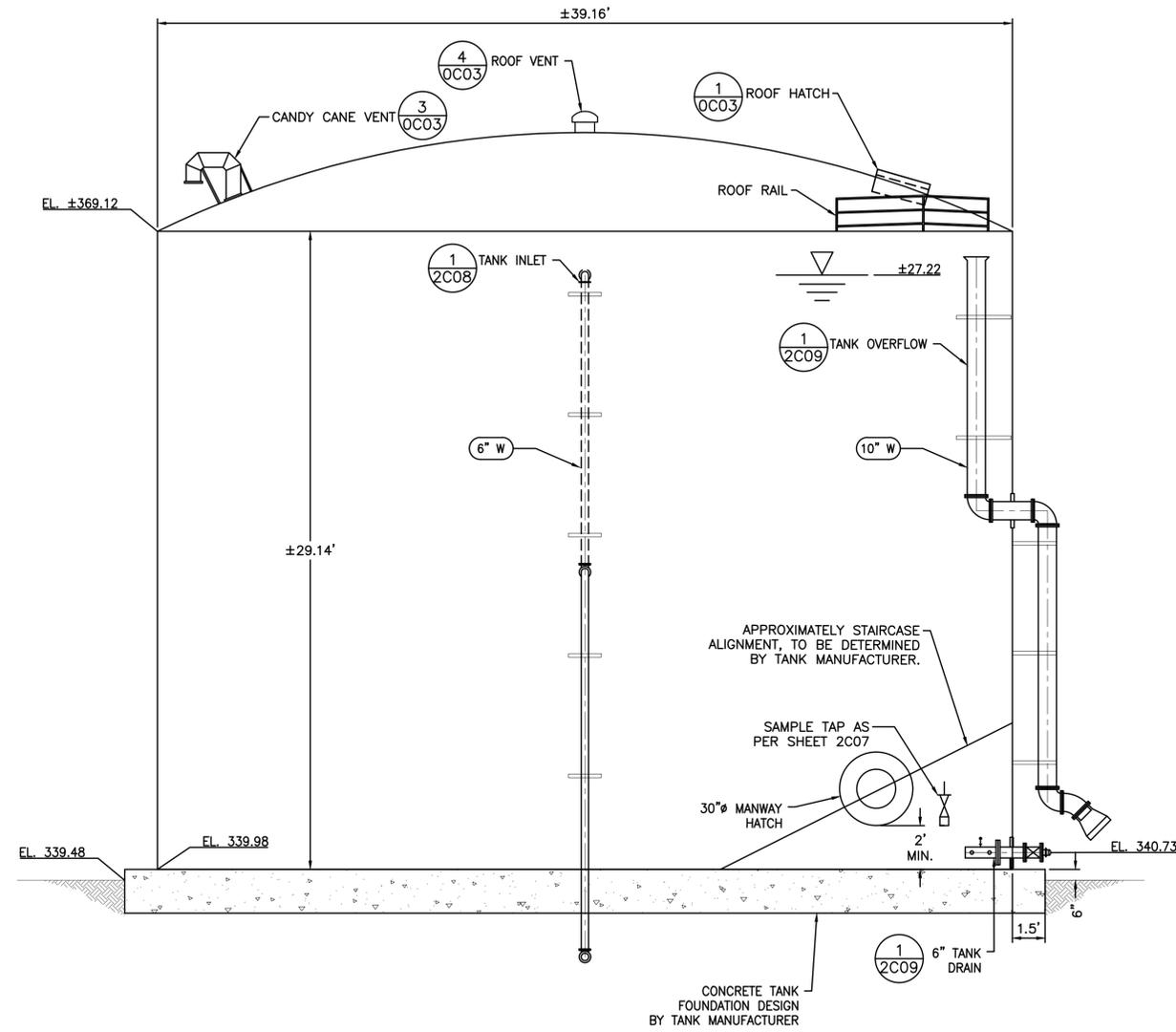
CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT
WALLACE TANK SITE - PIPING AND CONDUIT PLAN

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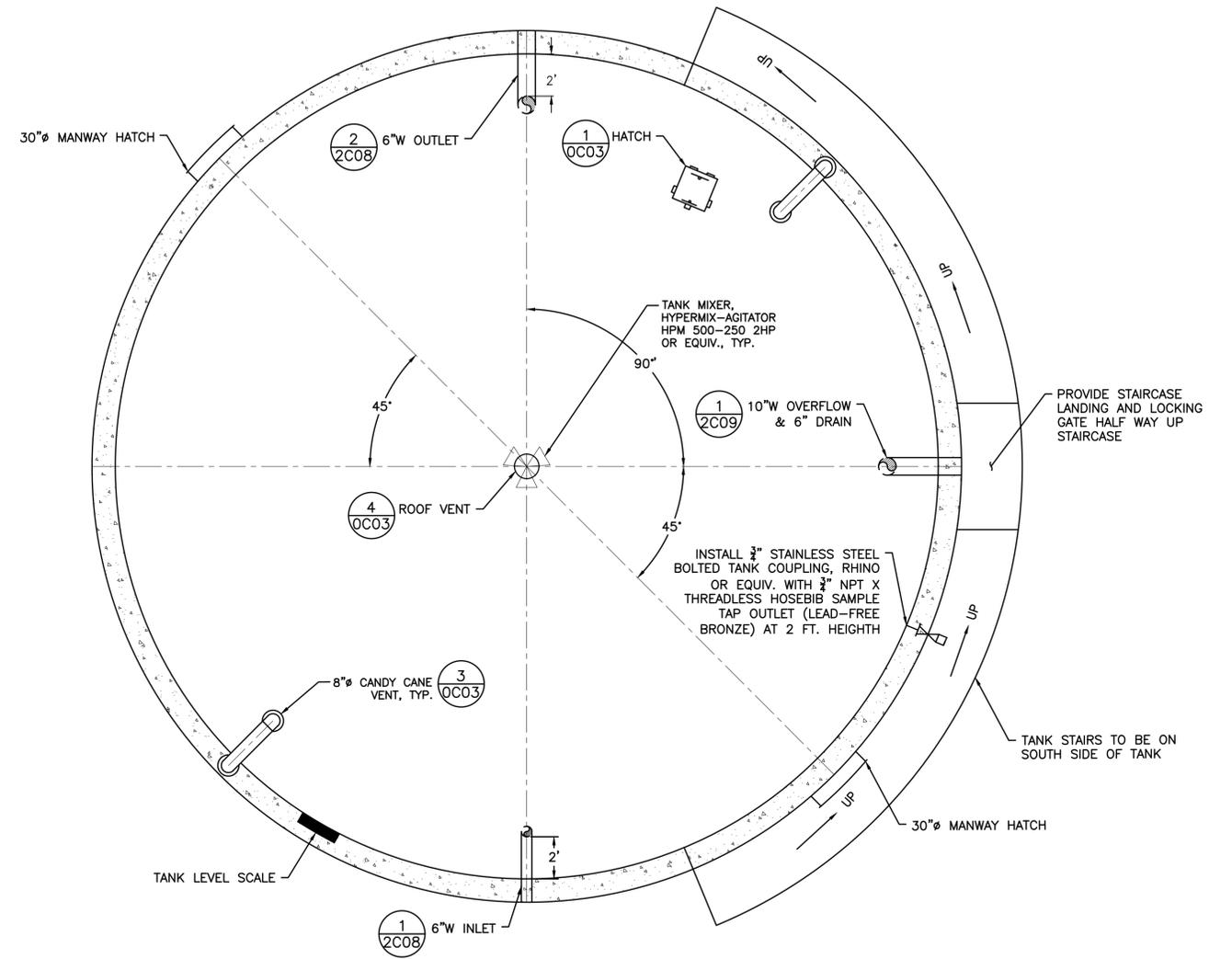
NOTES

1. TANK MANUFACTURER TO PROVIDE SITE SPECIFIC ENGINEERING AND STRUCTURAL DESIGN FOR SPECIFIED TANK.
2. TANK SHALL BE BY CALIFORNIA AQUA STORE MANUFACTURER OR EQUIVALENT.
3. TANK SHALL HAVE EMBEDDED STEEL RING BASE & CONCRETE FLOOR.
4. TANK MANUFACTURER SHALL PROVIDE AN ENGINEERED MAGNESIUM INGOT SACRIFICIAL ANODE BASED SYSTEM FOR CORROSION CONTROL
5. TANK MANUFACTURER SHALL PROVIDE SPIRAL STAIRCASE & LANDING, RAILS, SKID RESISTANT TREAD TO ROOF VENT WITH D-RING FALL PREVENTION SYSTEM.



1 WATER STORAGE TANK ELEVATION
2C07 DETAIL

SCALE: NTS



2 WATER STORAGE TANK TOP VIEW
2C07 DETAIL

SCALE: NTS

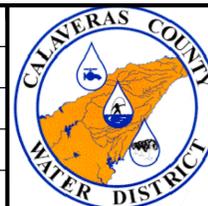
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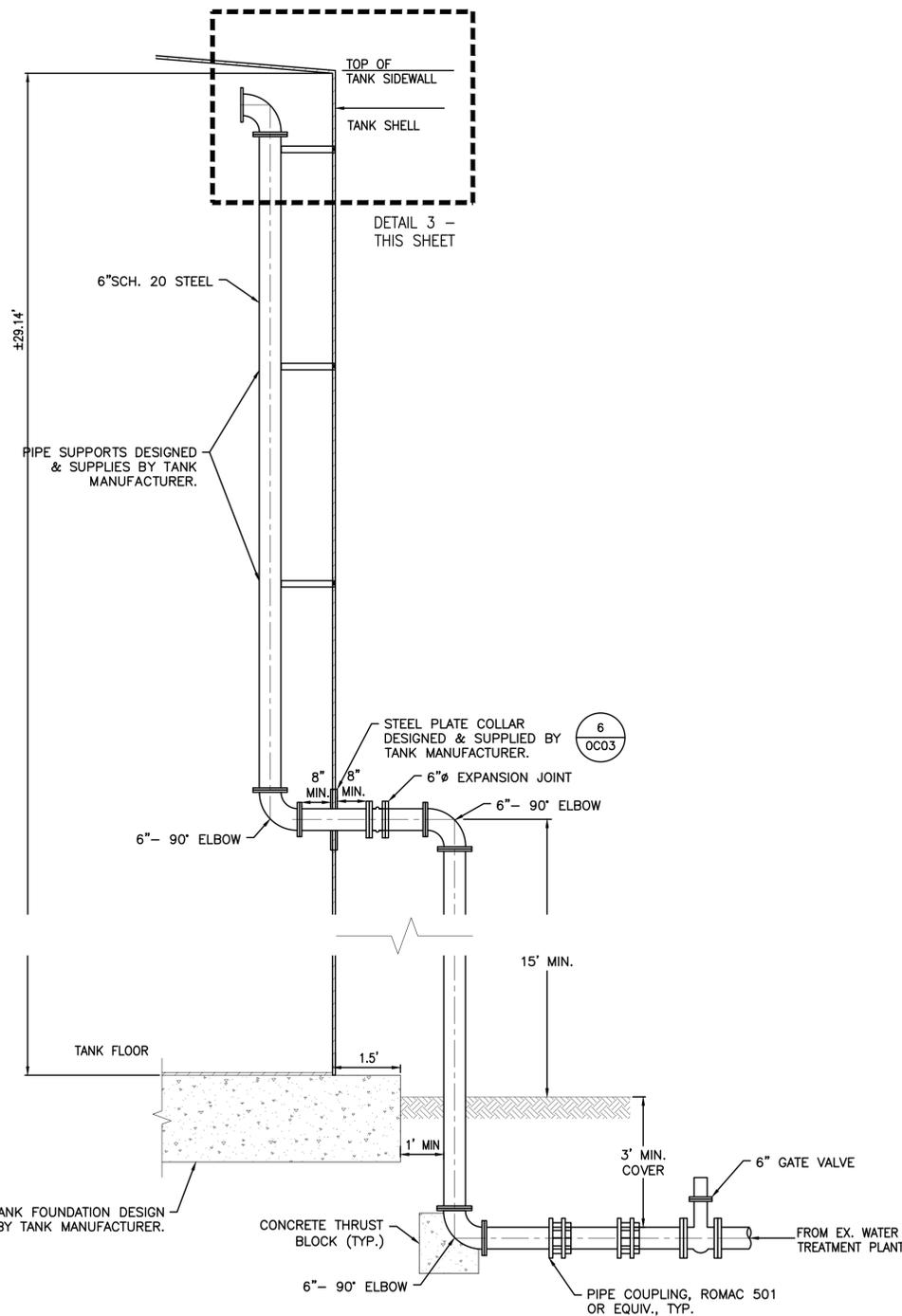


CALAVERAS COUNTY WATER DISTRICT
WALLACE AND SAWMILL WATER STORAGE TANK PROJECT

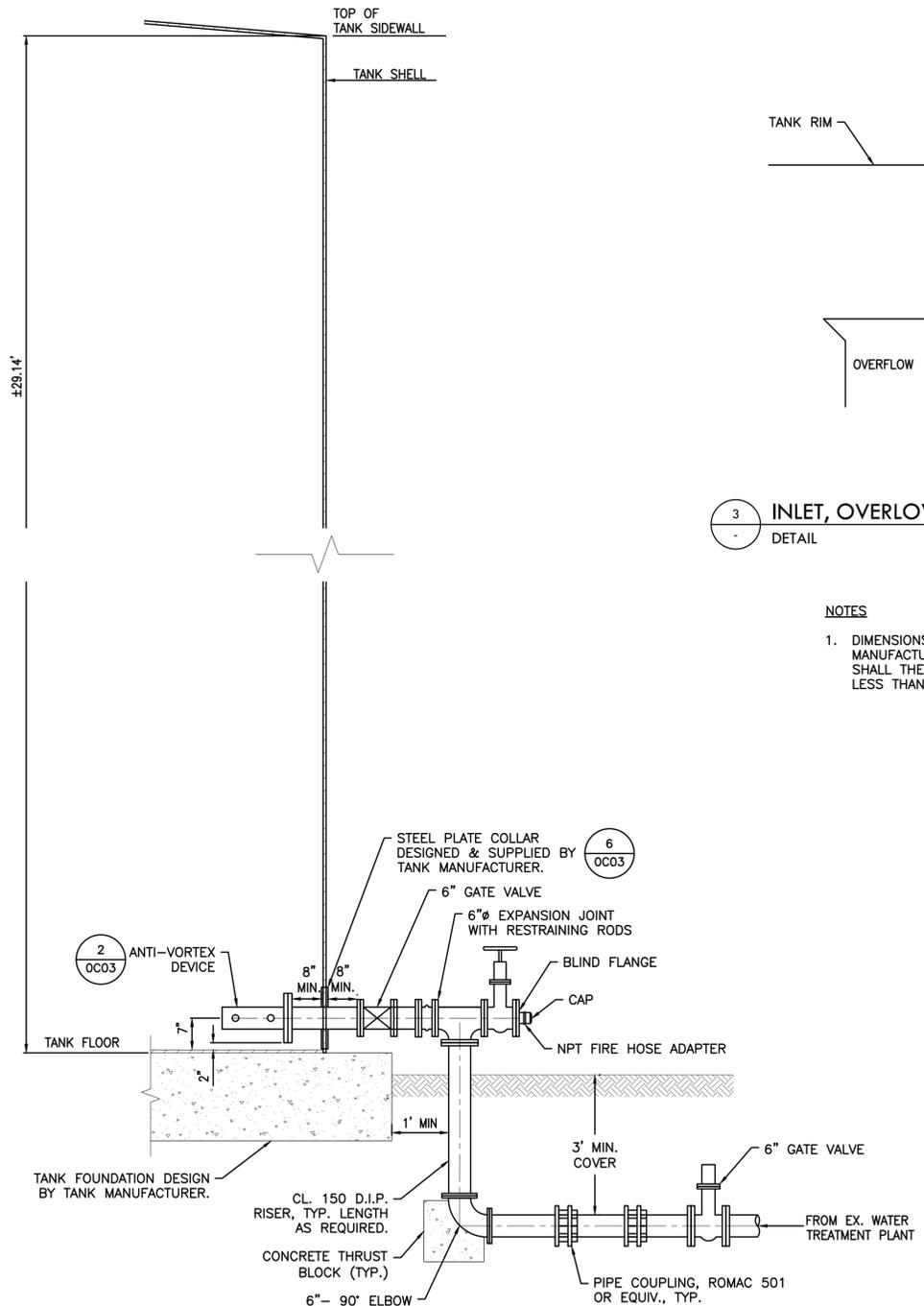
WALLACE TANK SITE - TANK DETAIL

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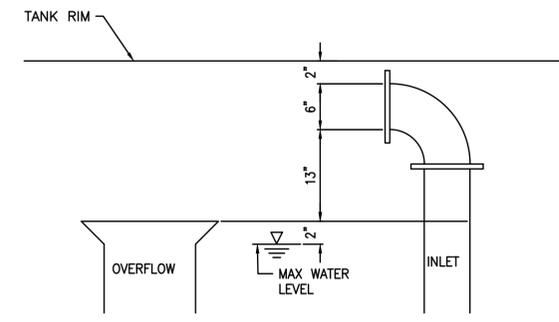
DRAWING NO.
2C07
SHEET NO.
27 OF 29



1 STORAGE TANK INLET
2C07 DETAIL SCALE: NTS



2 STORAGE TANK OUTLET
2C07 DETAIL SCALE: NTS



3 INLET, OVERFLOW & MAX. WATER SURFACE RELATIONSHIPS
DETAIL SCALE: NTS

NOTES
1. DIMENSIONS SHOWN ARE THE MINIMUM REQUIRED. MANUFACTURER DESIGN MAY BE MORE, BUT IN NO CASE SHALL THE USEABLE STORAGE CAPACITY OF THE TANK BE LESS THAN SHOWN ON THE PLANS.

1:24516 CALAVERAS COUNTY WATER DISTRICT WALLACE AND SAWMILL WATER STORAGE TANK PROJECT SHEET 2C08 (IMP PLANS) IMP PLANS SHEET 2C08 (IMP PLANS) WALLACE AND SAWMILL WATER STORAGE TANK PROJECT SHEET 2C08 (IMP PLANS) WALLACE AND SAWMILL WATER STORAGE TANK PROJECT SHEET 2C08 (IMP PLANS)

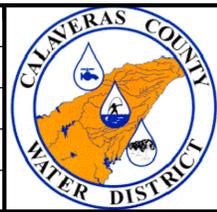
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WALLACE TANK SITE - TANK DETAILS

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SHEET NO.
28 OF 29

FINAL PLANS

