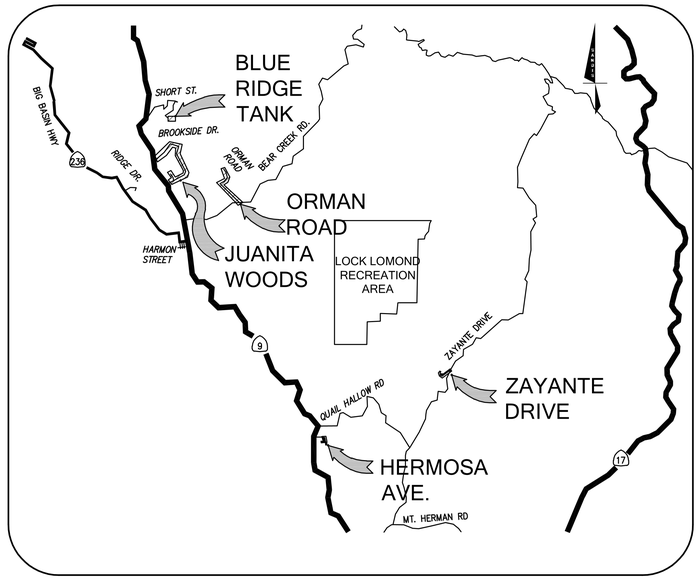
SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT

BOULDER CREEK, CA

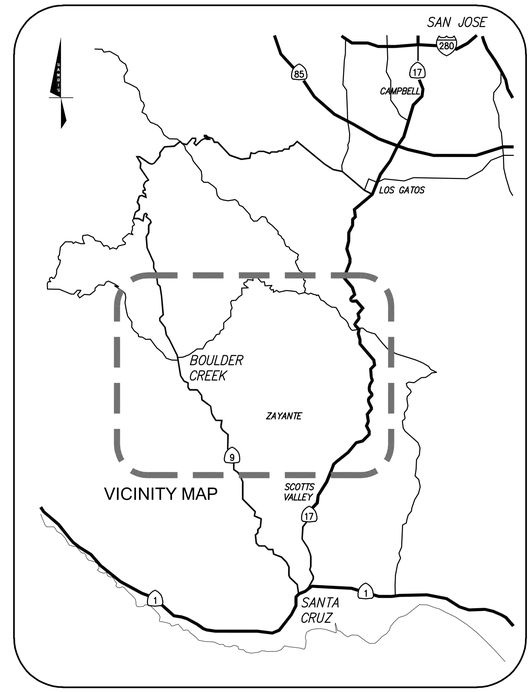
PROJECT DESCRIPTION

THE PROJECT PROPOSES TO REPLACE APPROXIMATELY 8,500LF OF WATER PIPELINE THAT IS NO LONGER EFFECTIVE DUE TO AGE OR IS UNDERSIZED. THE PROPOSED MAIN WILL BE 8-INCH DUCTILE IRON PIPE AND WILL BE LOCATED WITHIN PROPOSED R.O.W. THE PROJECT ALSO INVOLVES REPLACEMENT OF AN AGING 40,000-GALLON REDWOOD TANK WITH A NEW 160,000-GALLON TANK FITTED WITH WATER QUALITY SAMPLING STATIONS AND TIE-IN TO THE DISTRICTS EXISTING SCADA SYSTEM.

THE PIPELINE WILL BE INSTALLED ALONG BOTH PRIVATELY OWNED R.O.W AND PUBLICLY MAINTAINED R.O.W (MAINTAINED BY COUNTY OF SANTA CRUZ) IN ADDITION TO A SMALL PORTION OF PIPELINE REQUIRING INSTALLATION WITHIN CAL-TRANS R.O.W (STATE HWY 9). IN LOCATIONS WHERE PIPELINE IS BEING INSTALLED WITHIN PRIVATE R.O.W, THE CONTRACTOR SHALL PROVIDE A SLURRY SEAL THAT EXTENDS ACROSS THE FULL PAVEMENT EXTENTS. IN LOCATIONS WHERE PIPELINE IS BEING INSTALLED WITHIN SANTA CRUZ COUNTY MAINTAINED R.O.W THE CONTRACTOR SHALL INSTALL A MIN. 2" OVERLAY THAT EXTENDS ACROSS THE FULL PAVEMENT EXTENTS. ALL WORKS WITHIN CAL-TRANS R.O.W SHALL BE INSTALLED PER CAL-TRANS STANDARDS AND PER CAL-TRANS TRAFFIC CONTROL REQUIREMENTS



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

CIVIL SHEET INDEX

C0.01 COVER SHEET
C0.02 NOTES, LEGENDS, AND ABBREVIATIONS
C1.00 UTILITY LAYOUT KEY MAP- JUANITA WOODS
C1.01 UTILITY PLAN & PROFILE- BROOKSIDE DRIVE
C1.02 UTILITY PLAN & PROFILE- JUANITA ROAD
C1.03 UTILITY PLAN & PROFILE- JUANITA WOODS ROAD
C1.04 UTILITY PLAN & PROFILE-APPLE KNOLL
C1.05 EXISTING CONDITIONS AND DEMOLITION PLAN - BLUE RIDGE TANK
C1.06 SITE, GRADING, AND UTILITY PLAN - BLUE RIDGE TANK
C1.07 BLUE RIDGE TANK DETAILS
C1.10 UTILITY LAYOUT KEY MAP - ORMAN ROAD
C1.11 UTILITY PLAN & PROFILE - ORMAN ROAD
C1.12 UTILITY PLAN & PROFILE - ORMAN ROAD
C1.13 UTILITY PLAN & PROFILE - ORMAN ROAD
C1.20 UTILITY LAYOUT KEY MAP - ZAYANTE DRIVE
C1.21 UTILITY PLAN & PROFILE - ZAYANTE DRIVE
C1.22 UTILITY PLAN & PROFILE - ZAYANTE DRIVE
C1.30 UTILITY LAYOUT KEY MAP - HERMOSA AVE
C1.31 UTILITY PLAN & PROFILE - FERNWOOD AVE
C1.32 UTILITY PLAN & PROFILE - HERMOSA AVE
C1.33 UTILITY PLAN & PROFILE -SCHAAF ROAD
C1.34 UTILITY PLAN & PROFILE - OAK AVE
C2.00 SLVWD STANDARD DETAILS
C2.01 CONSTRUCTION DETAILS
C2.10 EROSION AND SEDIMENT CONTROL PLAN
C2.11 EROSION AND SEDIMENT CONTROL DETAIL
C3.00 TRAFFIC CONTROL PLANS - KEY MAP
C3.10 TRAFFIC CONTROL PLANS - HWY 9
C3.11 TRAFFIC CONTROL PLANS - HWY 9
C3.12 TRAFFIC CONTROL PLANS - BROOKESIDE DRIVE
C3.13 TRAFFIC CONTROL PLANS - JUANITA ROAD
C3.14 TRAFFIC CONTROL PLANS - JUANITA WOODS ROAD
C3.20 TRAFFIC CONTROL PLANS - BEAR CREEK ROAD
C3.21 TRAFFIC CONTROL PLANS - ORMAN ROAD
C3.22 TRAFFIC CONTROL PLANS - ORMAN ROAD
C3.30 TRAFFIC CONTROL PLANS - BLUE RIDGE DRIVE
C3.40 TRAFFIC CONTROL PLANS - ZAYANTE DRIVE
C3.50 TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD
C3.51 TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD
C3.52 TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD
C3.53 TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD
C3.54 TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD
C3.55 TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD
C3.56 TRAFFIC CONTROL PLANS - FERNWOOD AVENUE
C3.57 TRAFFIC CONTROL PLANS - HERMOSA AVENUE

PROJECT DIRECTORY

OWNER INFO

SAN LORENZO VALLEY WATER DISTRICT
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CIVIL ENGINEER

SANDIS CIVIL ENGINEERS
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EMAIL: Cgeorge@harokasunich.com

SAN LORENZO VALLEY WATER DISTRICT:

WATER UTILITIES SHOWN ON THESE PLANS SHALL COMPLY WITH SAN LORENZO VALLEY WATER DISTRICT STANDARD SPECIFICATIONS AS AMENDED TO DATE.

_____ _____
JOSH WOLFF, PE DATE
DISTRICT ENGINEER
SAN LORENZO VALLEY WATER DISTRICT

GEOTECHNICAL ENGINEER'S CERTIFICATE:

THE PORTIONS OF PLANS REGARDING GEOTECHNICAL ASPECTS OF THE PROJECT HAVE BEEN REVIEWED AND ARE IN CONFORMANCE WITH THE INTENT OF THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT TITLED "GEOTECHNICAL INVESTIGATION FOR BLUE RIDGE TANK REPLACEMENT", DATED AUGUST 2021, PREPARED BY:

_____ _____
GEOTECHNICAL ENGINEER DATE
HARO, KASUNICH AND ASSOCIATES

SANDIS CIVIL ENGINEERS:

_____ 05/25/2022
RON SANZO, PE DATE
CIVIL ENGINEER
SANDIS CIVIL ENGINEERS

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

811 Know what's below. Call before you dig.

UNAUTHORIZED CHANGES AND USES

CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THE PLANS.

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SANDIS.

SANDIS build. on sandis.net

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: N.T.S.
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANZO No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

COVER SHEET

SHEET C0.01

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LEGEND

	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE		
RETAINING WALL		
A.C. PAVEMENT		
CONC. VALLEY GUTTER		
CONC. SIDEWALK OR PAD		
6" CURB & GUTTER		
EDGE OF A.C. PAVEMENT	EP	
6" VERTICAL CURB		
CENTER LINE		
SANITARY SEWER MAIN	8" SS	8" SS
STORM DRAIN MAIN	12" SD	15" SD
PERFORATED PIPE		6" SD
WATER MAIN	6" W	6" W
FIRE WATER MAIN	6" FW	4" FW
DOMESTIC WATER MAIN	6" DW	4" DW
CHILLED WATER MAIN	6" CHW	4" CHW
IRRIGATION LINE	2" IRR	4" IRR
HOT WATER SUPPLY & RETURN	HWS HWR	HWS HWR
STEAM LINE	ST	ST
TRENCH DRAIN		
CONDENSATE RETURN	CR	CR
FLOW LINE		
CHAIN LINK FENCE	x x x	x x x
GAS MAIN	G	2" G
ELECTRIC AND SIGNAL DUCT BANK	E	E
OVERHEAD ELECTRIC LINE	OHE	OHE
UNDERGROUND ELECTRIC LINE	UGE	UGE
STREET LIGHT CONDUIT	SL	SL
CONTOUR ELEVATION LINE	85	90
SPOT ELEVATION	x 95.94	FG 95.94
DIRECTION OF SLOPE		2:1 1%
GAS METER		GM
GAS VALVE		GV
WATER METER		WM
WATER VALVE		WV
FIRE HYDRANT		
BACK FLOW PREVENTOR		
POST INDICATOR VALVE	PIV	PIV
FIRE DEPARTMENT CONNECTION		
WATER LINE TEE		
CAP AND PLUG END		
AIR RELEASE VALVE		ARV
SIGN		
ACCESSIBLE RAMP		
CONCRETE THRUST BLOCK		
REDUCER		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MANHOLE		
STORM DRAIN AREA DRAIN		
STORM DRAIN CATCH BASIN	CB	
STORM DRAIN CURB INLET		
STORM DRAIN CLEANOUT	SDCO	SDCO
ELECTROLIER		
JOINT POLE	JP	JP
OVERLAND RELEASE		
CONSTRUCTION DETAIL REFERENCE		15 / C5.20 DETAIL REFERENCE / SHEET REFERENCE

ABBREVIATIONS

AB	–	AGGREGATE BASE
AC	–	ASPHALT CONCRETE
AD	–	AREA DRAIN
ADA	–	AMERICANS WITH DISABILITIES ACT
ASB	–	AGGREGATE SUBBASE
BC	–	BEGINNING OF CURVE
BFP	–	BACK FLOW PREVENTOR
BLDC	–	BUILDING CORNER
BLDG	–	BUILDING
BOD	–	BOTTOM OF DOCK
BOL	–	BOLLARD
BOS	–	BOTTOM OF STEP
BOW	–	FG @ BOTTOM OF WALL
BVC	–	BEGIN VERTICAL CURVE
BW	–	BACK OF WALK
C	–	CONCRETE OR CIVIL
C&G	–	CURB AND GUTTER
CB	–	CATCH BASIN
CI	–	COMBINATION INLET
CIP	–	CAST IRON PIPE
CL	–	CENTER LINE OR CLASS
CMP	–	CORRUGATED METAL PIPE
CO	–	CLEANOUT
COI	–	CURB OPENING INLET
CONC	–	CONCRETE
CONST	–	CONSTRUCTION OR CONSTRUCT
CY	–	CUBIC YARD
DCDA	–	DOUBLE CHECK DETECTOR ASSEMBLY
DI	–	DROP INLET
DIP	–	DUCTILE IRON PIPE
DOM	–	DOMESTIC
DW	–	DOMESTIC WATER
DWG	–	DRAWING
E	–	EAST
EC	–	END OF CURVE
EP	–	EDGE OF PAVEMENT
ER	–	END OF RETURN
EVC	–	END VERTICAL CURVE
ELEV	–	ELEVATION
EX., EXIST.	–	EXISTING
FC	–	FACE OF CURB
FDC	–	FIRE DEPARTMENT CONNECTION
FF	–	FINISHED FLOOR
FG	–	FINISHED GRADE
FH	–	FIRE HYDRANT
FL	–	FLOW LINE
FOUND	–	FOUNDATION
FS	–	FINISHED SURFACE
FT	–	FOOT
FW	–	FIRE WATER
G	–	GROUND ELEVATION
GB	–	GRADE BREAK
GV	–	GATE VALVE
HCR	–	ACCESSIBLE RAMP
HP	–	HIGH POINT
INV	–	INVERT ELEVATION
JP	–	JOINT POLE
JT	–	JOINT TRENCH
LIP	–	LIP OF GUTTER
LP	–	LOW POINT
LSA	–	LANDSCAPE ARCHITECT
MAX	–	MAXIMUM
MEP	–	MECHANICAL/ELECTRICAL/PLUMBING
MH	–	MANHOLE
MIN	–	MINIMUM
MPVC	–	MIDPOINT OF VERTICAL CURVE
MON	–	MONUMENT
N	–	NORTH
N.I.C.	–	NOT IN CONTRACT
NO	–	NUMBER
NTS	–	NOT TO SCALE
P	–	PAVEMENT ELEVATION
PCC	–	PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
PIV	–	POST INDICATOR VALVE
PL	–	PROPERTY LINE
PMH	–	POWER MANHOLE
POC	–	POINT ON CURVE
PP	–	POWER POLE
PRC	–	POINT OF REVERSE CURVATURE
PVC	–	POLYVINYL CHLORIDE PIPE
R	–	RADIUS
RC	–	RELATIVE COMPACTION
RCP	–	REINFORCED CONCRETE PIPE
RPPA	–	REDUCED PRESSURE PRINICIPLE ASSEMBLY
R/W	–	RIGHT OF WAY
S	–	SLOPE OR SOUTH
S.A.D.	–	SEE ARCHITECTURAL DRAWINGS
SB	–	SEDIMENT BASIN
SD	–	STORM DRAIN
S.E.D.	–	SEE ELECTRICAL DRAWINGS
SF	–	SILT FENCE
SG	–	SUBGRADE
S.L.D.	–	SEE LANDSCAPE DRAWINGS
S.M.D.	–	SEE MECHANICAL DRAWINGS
SMH	–	SIGNAL MANHOLE
S.P.D.	–	SEE PLUMBING DRAWINGS
SS	–	SANITARY SEWER
STA	–	STATION
STD	–	STANDARD
S/W	–	SIDEWALK
TC	–	TOP OF CURB
TD	–	TRENCH DRAIN
TOD	–	TOP OF DOCK
TOE	–	TOE OF SLOPE
TOS	–	TOP OF STAIR
TOW	–	FG @ TOP OF WALL
TS	–	TOP OF SLAB
TYP	–	TYPICAL
UON	–	UNLESS OTHERWISE NOTED
U/G	–	UNDERGROUND
VC	–	VERTICAL CURVE
WM	–	WATER METER
WV	–	WATER VALVE
W	–	WEST
WWF	–	WELDED WIRE FABRIC
W/	–	WITH

PROJECT SCOPE & BASIS OF DESIGN NOTES

GENERAL SCOPE OF IMPROVEMENTS:
THE PROJECT PROPOSES TO REPLACE APPROXIMATELY 8,500 LF OF WATER PIPELINE THAT IS NO LONGER EFFECTIVE DUE TO AGE OR IS UNDERSIZED. THE PROPOSED MAIN WILL BE 8–INCH DUCTILE IRON PIPE AND WILL BE LOCATED WITHIN PROPOSED PUBLIC R.O.W. THE PROJECT ALSO INVOLVES REPLACEMENT OF AN AGING 40,000–GALLON REDWOOD TANK WITH A NEW 160,000–GALLON TANK FITTED WITH WATER QUALITY SAMPLING STATIONS AND TIE–IN TO THE DISTRICTS EXISTING SCADA SYSTEM. TO MINIMIZE DOWNTIME TO RESIDENTS, NEW WATER PIPING MUST BE INSTALLED AND TESTED BEFORE ACTIVE SERVICES ARE TAKEN OFFLINE.

WATER UTILITY INSTALLATION METHODS SHALL COMPLY WITH SAN LORENZO VALLEY WATER DISTRICT STANDARDS AND SPECIFICATIONS

BASIS OF DESIGN CRITERIA:

PIPELINE VERTICAL ALIGNMENT CRITERIA:

1. MINIMUM PIPE COVER SHALL BE 3.0 FT
2. MINIMUM COVER TO VALVES SHALL BE 3.0 FT TO TOP OF THE BONNET
3. PROPOSED PIPE SHALL HAVE 12–INCHES (MIN.) VERTICAL CLEARANCE AT CROSSINGS WITH EXISTING UTILITY MAINS AND 6–INCHES (MIN.) VERTICAL CLEARANCE AT CROSSINGS WITH PROPERTY SERVICE CONNECTIONS. IF THIS REQUIREMENT CAN BE DEMONSTRATED TO BE CAUSE OF EXTREME CONSTRUCTION HARDSHIP OR IS A SIGNIFICANT ADJUSTMENT FROM THE PIPE ALIGNMENTS SHOWN ON THE CONSTRUCTION PLANS THEN PROVISIONS MAY BE IMPLEMENTED WHERE CLEARANCE MAY BE FURTHER REDUCED AND A CONCRETE ENCASEMENT OR HDPE SLEEVE (PER DETAIL SD–9, SHEET C2.01) CAN BE INSTALLED AT THE PIPE CROSSING. THIS WILL REVIEWED ON A CASE–BY–CASE BASIS AND WILL BE SUBJECT TO THE APPROVAL OF THE DISTRICT/ENGINEER.
4. AT LOCATIONS WHERE PROPOSED PIPELINE IS CROSSING A GAS MAIN (2" DIA. OR LARGER) CONTRACTOR SHALL NOTIFY DISTRICT PRIOR TO PROCEEDING WITH WORK.
5. DEFLECTION OF UP TO 4 DEGREES IS ALLOWED AT PIPE JOINTS IN ORDER TO REDUCE NUMBER OF FITTINGS (I.E VERTICAL BENDS) REQUIRED ALONG PIPE EXTENTS

PIPELINE HORIZONTAL ALIGNMENT CRITERIA:

1. THE PROPOSED PIPELINE HAS BEEN POSITIONED TO BE A MINIMUM 5–FEET FROM THE EXISTING WATERMAIN SO AS TO NOT COMPROMISE THE EXISTING TRENCH AND TO AVOID CONFLICTS WITH POTENTIAL THRUST BLOCKS.
2. THE PIPELINE HAS BEEN POSITIONED TO BE A MINIMUM 4–FEET FROM THE PAVEMENT EDGE TO AVOID HAVING TO RECONSTRUCT THE ROAD SHOULDER AND PREVENT EDGE BREAK OCCURRING BETWEEN THE EXISTING PAVEMENT EDGE AND REINSTATED TRENCH EDGE.
3. IF EACH OF THE ABOVE CRITERIA ARE MET, THEN, WHERE POSSIBLE, THE PIPELINE WILL BE LOCATED SUCH THAT ONE LANE OF TRAFFIC IS MAINTAINED AT ALL TIMES
4. PROPOSED PIPE SHALL HAVE 12–INCHES (MIN.) HORIZONTAL CLEARANCE FROM ALL OTHER UTILITIES.
5. DEFLECTION OF UP TO 4 DEGREES IS ALLOWED AT PIPE JOINTS IN ORDER TO REDUCE NUMBER OF FITTINGS (I.E HORIZONTAL BENDS) REQUIRED ALONG PIPE EXTENTS

OTHER DESIGN CRITERIA:

1. ALL EXISTING SINGLE COMM & ELEC UTILITIES IDENTIFIED AS PART OF THE TOPOGRAPHIC SURVEY AND UTILITY LOCATING ARE ASSUMED TO BE 3–INCHES IN DIAMETER
2. ALL EXISTING JOINT TRENCHES IDENTIFIED AS PART OF THE TOPOGRAPHIC SURVEY & UTILITY LOCATING ARE ASSUMED TO BE CONSTRUCTED IN A TRENCH 2ft WIDE X 3ft DEEP
3. ALL UNKNOWN UTILITIES IDENTIFIED AS PART OF THE TOPOGRAPHIC SURVEY AND UTILITY LOCATING ARE ASSUMED TO BE 3–INCHES IN DIAMETER
4. ALL EXISTING STORM DRAIN PIPES ARE ASSUMED TO BE 12–INCHES IN DIAMETER UNLESS OTHERWISE NOTED
5. ALL EXISTING SANITARY SEWER PIPES ARE ASSUMED TO BE 6–INCHES IN DIAMETER UNLESS OTHERWISE NOTED. NO KNOWN SEWER MAIN LINES ARE EXPECTED TO BE PRESENT WITHIN THE WORKS AREA. IF HOWEVER A MAIN SEWER NETWORK IS DISCOVERED THEN THE NEW PIPELINE SHALL BE CONSTRUCTED A MINIMUM DISTANCE 10–FT HORIZONTALLY BETWEEN SANITARY SEWER AND WATER MAINS IN COMPLIANCE WITH DPH TITLE 22, CHAPTER 16, SECTION 64572.
6. NEW SERVICE LATERALS WILL BE PROVIDED FOR EACH OF THE IMPACTED PROPERTIES. THESE LATERALS WILL SADDLE INTO THE NEW PIPELINE AND EXTEND TO PROPERTIES' EXISTING WATER METER.
7. DURING THE FIELD INVESTIGATIONS, NOT ALL WATER METERS WERE LOCATED (LE LID WAS BURIED OR NOT ACCESSIBLE). AT THESE LOCATIONS THE EXISTING WATER METER AND PROPOSED SERVICE LINE CONNECTION HAS BEEN SHOWN INDICATIVELY TO BE LOCATED NEAR THE CENTER TO THE PROPERTY.

WATER POLLUTION CONTROL NOTES:

1. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
2. CONTRACTOR TO INSTALL BMP RUN–OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
3. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
4. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND–BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. MANUALLY SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE SITE AS NECESSARY TO ENSURE THE SITE IS LEFT IN CLEAN CONDITION AT THE END OF EACH WORK SHIFT
7. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

CONSTRUCTION NOTES

1. ALL OFF–SITE AND ONSITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE LATEST EDITION OF THE COUNTY OF SANTA CRUZ AND THE LATEST CALTRANS STANDARD PLANS & SPECIFICATIONS.
2. CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE COUNTY OF SANTA CRUZ POLICE AND FIRE DEPARTMENTS.
3. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
4. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
5. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM COUNTY AND PRIVATE STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
6. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
7. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
8. ALL MATERIALS REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
11. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
12. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON COUNTY AND/OR PRIVATE ROADS WILL BE SUBJECT TO REQUIREMENTS LISTED IN APPROVED TRAFFIC MANAGEMENT PLAN
13. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.
14. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.
15. A CONTAINED AND COVERED AREA ON–SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
16. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.
17. ANY TEMPORARY ON–SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
18. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.

DEMOLITION NOTES

1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
5. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
6. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
7. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
8. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR THEIR AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE DISTRICT OR OWNER'S REPRESENTATIVE.
9. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE UTILITY OWNER AND ANY AFFECTED PROPERTIES OR BUILDINGS.
10. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR RELOCATED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.
11. PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED. REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.
12. ALL UTILITY SHUT DOWNS ARE TO BE AVOIDED, SO FAR AS REASONABLY PRACTICABLE IF SHUT DOWNS ARE NECESSARY, CONTRACTOR TO COORDINATE SHUT DOWN WITH UTILITY OWNER WITH 48 HOUR MINIMUM NOTICE.
13. ALL EXISTING STORM DRAIN, SANITARY SEWER, AND WATER MAINS THAT SERVE EXISTING BUILDINGS MUST REMAIN OPERABLE DURING CONSTRUCTION. CONTRACTOR TO SET UP TEMPORARY SERVICE OR PUMP AS NECESSARY TO ENSURE UNINTERRUPTED SERVICE.

SAN LORENZO VALLEY WATER DISTRICT NOTES

WATER MAIN UTILITY NOTES:

1. ALL WATER UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SAN LORENZO VALLEY WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS (DATED JANUARY 2022)
2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 48 HOURS PRIOR TO STARTING ANY WATER WORK.
3. FOR ANY WORK IN A PUBLIC STREET, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE AGENCY HAVING JURISDICTION.
4. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND DEPTHS WITH APPROPRIATE AGENCIES OR BY POTHOLING. THE CONTRACTOR SHALL CALL USA UNDERGROUND SERVICE ALERT AT LEAST 72 HOURS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL POTHOLE ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING OPERATION.
6. THE CONTRACTOR SHALL NOTIFY THE DISTRICT IMMEDIATELY OF ANY CONFLICT BETWEEN WATER UTILITIES AND OTHER UNDERGROUND FACILITIES.
7. THE CONTRACTOR SHALL SHORE ALL EXCAVATIONS IN ACCORDANCE WITH APPLICABLE SAFETY ORDERS.
8. PIPE JOINTS SHALL BE RESTRAINED AT ALL PIPE SECTION JOINTS, AND AT ALL FITTINGS, VALVES, CHANGES IN ANGLES AND ELEVATIONS; AND WHERE OTHERWISE REQUIRED BY THE ENGINEER. FIELD–LOK GASKET JOINTS ARE PREFERRED. MECHANICALLY RESTRAINED (MEGA–LUG OR APPROVED EQUIVALENT) OR THRUST/GRAVITY BLOCKS MAY BE USED WHERE FIELD–LOK JOINTS ARE IMPRACTICAL (I.E CONNECTION WITH TEES AND VALVES) OR IF THERE IS A SUPPLY SHORTAGE ON FIELD–LOK GASKETS WHICH RESULTS IN SCHEDULE DELAYS (SUBJECT TO APPROVAL FROM DISTRICT REPRESENTATIVE).
9. WATER MAINS SHALL BE PUSH ON DUCTILE IRON PIPE AND SHALL CONFORM TO AWWA STANDARDS C150 AND C151. DUCTILE IRON PIPE TO BE CLASS 350 PIPE CONFORMING TO AWWA/ANSI C151/A21.5, CEMENT–MORTAR LINING CONFORMING TO AWWA/ANSI C104/A21.4, WITH STANDARD THICKNESS PER AWWA/ANSI C150/A21.50. PROVIDE FIELD LOK OR EQUAL AT ALL PUSH–ON JOINTS.
10. GATE VALVES SHALL BE RESILIENT WEDGE CONFORMING TO AWWA C905 WITH A WORKING PRESSURE OF 200 PSI. ALL FERROUS PARTS, EXCEPT FINISH OR BEARING SURFACES, SHALL BE GIVEN TWO COATS OF ASPHALT VARNISH.
11. MINIMUM PIPE COVER SHALL BE 3.0 FT
12. MINIMUM COVER TO VALVES SHALL BE 3.0 FT TO TOP OF THE BONNET
13. CORROSION PROTECTION: COMPLETELY ENCASE BURIED DUCTILE IRON PIPELINES AND UNDERGROUND APPURTENANCES WITH POLYETHYLENE WRAP. INSTALL 10–MIL LINEAR LOW–DENSITY POLYETHYLENE (LLD) FILM OR 4–MIL HIGH–DENSITY CROSS–LAMINATED (HDCL) FILM PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH AWWA/ANSI C105/A21.5 AND ASTM A674. WRAP SHALL BE USED AT ALL BURIED JOINTS EMPLOYING BOLTS.

PROPERTY CONNECTION UTILITY NOTES:

1. ALL NEW AND RELOCATED PROPERTY CONNECTIONS SHALL BE IN ACCORDANCE WITH THE SAN LORENZO VALLEY WATER DISTRICT STANDARD STANDARD SPECIFICATIONS AND DRAWINGS (DETAIL SD–4 & SD–5)
2. IN SOME INSTANCES A PROPERTY OWNER MAY HAVE CONSTRUCTED INFRASTRUCTURE (FENCELINES, GARDENS ETC.) WITHIN THE PUBLIC R.O.W. WATER METERS MAY ALSO HAVE BEEN INSTALLED WITHIN FENCE LINE BOUNDARIES. CONTRACTOR TO LOCATE ALL WATER METERS PRIOR TO CONSTRUCTION AND SHALL SEEK APPROVAL FROM ENGINEER PRIOR TO CARRYING OUT WORKS THAT MAY IMPACT PERSONAL PROPERTY (I.E. TRENCHING UNDER FENCELINE TO MAKE CONNECTION TO A WATER METER)

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS PART OF ALL OPERATIONS AFFECTING OR WITH THE POTENTIAL TO AFFECT ANY MEANS OF TRANSPORTATION UTILIZED BY THE PUBLIC, INCLUDING PEDESTRIAN, BICYCLIST AND MOTORIST TRAFFIC. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL SIGNAGE AND DEVICES PER THE CONTRACT TRAFFIC CONTROL PLANS, AND PROVIDE A SUFFICIENT NUMBER OF COMPETENT PERSONNEL TO OPERATE SAID DEVICES
2. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL AND CONSTRUCTION OPERATIONS SUCH THAT TRAFFIC IS MONITORED AND CONTROLLED AT ALL TIMES, YET INHIBITED AS LITTLE AS PRACTICABLE, AND PUBLIC INCONVENIENCE IS MINIMIZED
3. THE CONTRACTOR MAY RE–ROUTE TRAVELED WAYS, INCLUDING MOTOR VEHICLE LANES, BICYCLE LANES AND SIDEWALKS, ONLY IN ACCORDANCE WITH THE TRAFFIC TRAFFIC CONTROL PLANS. ANY MODIFICATIONS SHALL BE APPROVED PRIOR TO CONSTRUCTION BY THE ENGINEER, AS WELL AS SANTA CRUZ COUNTY OR CALTRANS, AS APPROPRIATE
4. THE CONTRACTOR SHALL NOT CLOSE TRAVELED WAYS, INCLUDING MOTOR VEHICLE LANES, BICYCLE LANES OR PEDESTRIAN ROUTES WITHOUT THE PRIOR APPROVAL OF THE DISTRICT AND SANTA CRUZ COUNTY OR CALTRANS, AS APPROPRIATE; AND FIVE WORKING DAYS ADVANCE PUBLIC NOTIFICATION BY MEANS OF A SIGNAGE AND/OR ADVERTISEMENT TO THE SATISFACTION OF THE ENGINEER

FIRE PROTECTION NOTES:

1. THE SYSTEM SUPPLIES WATER BOTH FOR DOMESTIC USE AND FIRE WATER SUPPLY
2. FIRE HYDRANTS SHALL CONNECT TO WATER MAINS VIA 6–INCH DIAMETER LATERAL PIPE AND BE INSTALLED IN ACCORDANCE WITH THE SAN LORENZO VALLEY WATER DISTRICT STANDARD STANDARD SPECIFICATIONS AND DRAWINGS (SLVWD STD. DETAIL SD–3)
3. THE FIRE HYDRANT LOCATIONS SHOWN ON THESE PLANS, HAS BEEN APPROVED BY EACH OF THE LOCAL FIRE DISTRICTS, WITH A MAXIMUM SPACING OF 1,000 FEET BETWEEN HYDRANTS. IF THE CONTRACTOR NEEDS TO MAKE ADJUSTMENTS TO THE LOCATIONS OF HYDRANTS (DUE TO UNFAVORABLE FIELD CONDITIONS ETC.) THEN THEY SHALL NOTIFY THE SLVWD REPRESENTATIVE, PRIOR TO CARRYING OUT WORKS. SHIFTING HYDRANTS TO A LOCATION 10–FEET AWAY FROM WHAT IS SHOWN ON THESE PLANS IS PERMITTED HOWEVER ANY DISTANCE GREATER THAT 10–FEET WILL REQUIRE RE–APPROVAL FROM THE FIRE DISTRICT.
4. THE HYDRANT LOCATION SHALL BE SELECTED TO MINIMIZE IMPACTS ON THE NEIGHBORHOOD PARKING AND AESTHETICS. HYDRANTS LOCATED MID–BLOCK SHALL BE PLACED TO STRADDLE EXTENDED PROPERTY LINES, SO THAT THE HYDRANT IS NOT LOCATED DIRECTLY IN FRONT OF ONE PARCEL.
5. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 10 FEET OF A DRIVEWAY APPROACH

EXISTING WATER MAIN ABANDONMENT NOTES:

1. THE EXISTING WATERMAIN AND HYDRANTS MUST REMAIN OPERABLE UP UNTIL SUCH A TIME WHEN THE NEW MAIN IS COMPLETELY INSTALLED AND TESTED.
2. EXISTING WATER MAIN INFRASTRUCTURE SHOULD BE ABANDONED AS FOLLOWS:

   MAIN PIPE ABANDONMENT:
   THE CONTRACTOR SHALL PLUG THE ENDS OF ALL PIPE MAINS THAT ARE INTENDED TO BE REMOVED FROM SERVICE. THE PIPE ENDS SHALL BE PLUGGED WITH LOW STRENGTH SLURRY OR CONCRETE, FOR A MIN. LENGTH OF 5FT AND COMPACTED INTO THE PIPE SO THAT IT FORMS A COMPLETE SEAL AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE. EXISTING PIPELINES ABANDONED IN AREAS OF STEEP SLOPE OR EXCESSIVE GROUND WATER MAY REQUIRE ADDITIONAL PLUGGING OR GROUTING AT THE DISCRETION OF THE ENGINEER

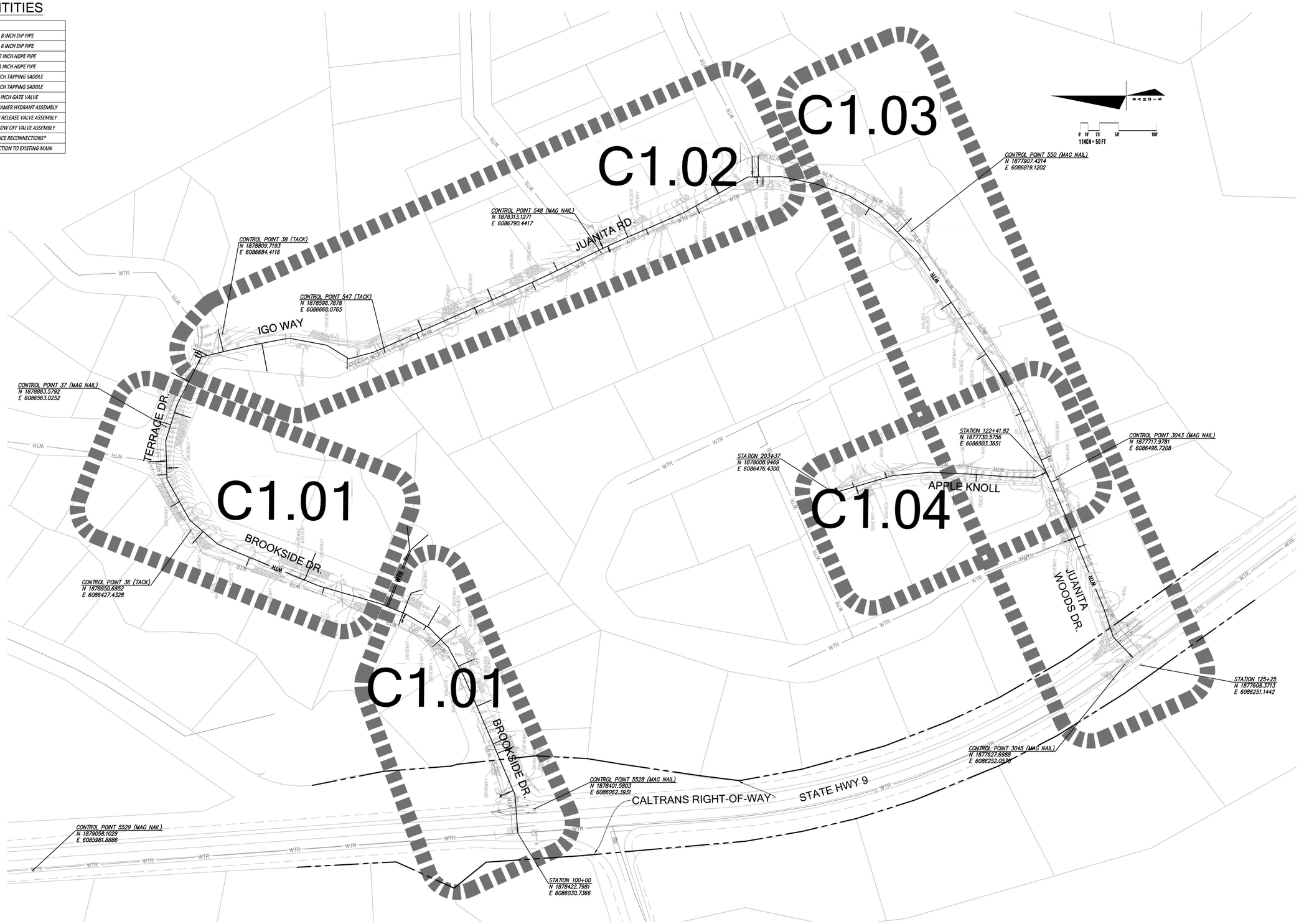
   VALVE ABANDONMENT:
   THE CONTRACTOR SHALL REMOVE THE VALVE BOX, LID, CONCRETE COLLAR AND ASSOCIATED COMPONENTS, LEAVING THE RISER PIPE IN PLACE. THE HOLE ABOVE THE VALVE SHALL BE FILLED WITH LOW STRENGTH SLURRY OR CONCRETE UP TO THE BOTTOM OF THE PAVEMENT SECTION.

   FIRE HYDRANT ABANDONMENT:
   THE CONTRACTOR SHALL REMOVE THE FIRE HYDRANT BURY TO A MINIMUM 2 FEET BELOW GRADE AND PLUG THE REMAINDER OF THE BURY PIPEWORK WITH LOW STRENGTH SLURRY OR CONCRETE. THE CONCRETE SHALL BE COMPACTED INTO THE BURY SO THAT IT FORMS A COMPLETE SEAL AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE.

   SERVICE ABANDONMENT:
   THE CONTRACTOR SHALL SCHEDULE A SERVICE LINE DISCONNECTION WITH THE DISTRICT REPRESENTATIVE 72 HOURS IN ADVANCE OF THE PROPOSED DISCONNECTION (AND SUBSEQUENT RECONNECTION WORKS). THE CONTRACTOR SHALL CARRY OUT WORKS SUCH THAT A PROPERTY WILL ONLY REMAIN W

MATERIAL QUANTITIES

QUANTITY	UNIT	MATERIAL
2795	LF	8 INCH DIP PIPE
72	LF	6 INCH DIP PIPE
114	LF	2 INCH HDPE PIPE
737	LF	1 INCH HDPE PIPE
8	EA	2 INCH TAPPING SADDLE
40	EA	1 INCH TAPPING SADDLE
2	EA	8 INCH GATE VALVE
5	EA	6 INCH STEAMER HYDRANT ASSEMBLY
5	EA	2 INCH AIR RELEASE VALVE ASSEMBLY
1	EA	2 INCH BLOW OFF VALVE ASSEMBLY
40	EA	SERVICE RECONNECTIONS*
4	EA	CONNECTION TO EXISTING MAIN



RIGHT-OF-WAY NOTE

WORK ALONG HIGHWAY 9 IS WITHIN CALTRANS RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS. WORK WITHIN BROOKSIDE DRIVE, IGO WAY, TERRACE DRIVE, APPLE KNOLL, AND JUANITA WOODS DRIVE IS WITHIN THE SANTA CRUZ COUNTY RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST SANTA CRUZ COUNTY STANDARD PLANS AND SPECIFICATIONS. CONTRACTOR TO OBTAIN NECESSARY ENCROACHMENT PERMITS FOR ANY WORK ACTIVITIES OR CONSTRUCTION OCCURRING WITHIN THE ASSOCIATED RIGHT-OF-WAY.

HORIZONTAL AND VERTICAL CONTROL NOTE

HORIZONTAL AND VERTICAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED INTO CALIFORNIA STATE PLANE COORDINATES NAD83 AND NAVD 88, EPOCH 2020.250.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY LAYOUT KEY MAP- JUANITA WOODS

SHEET C1.00

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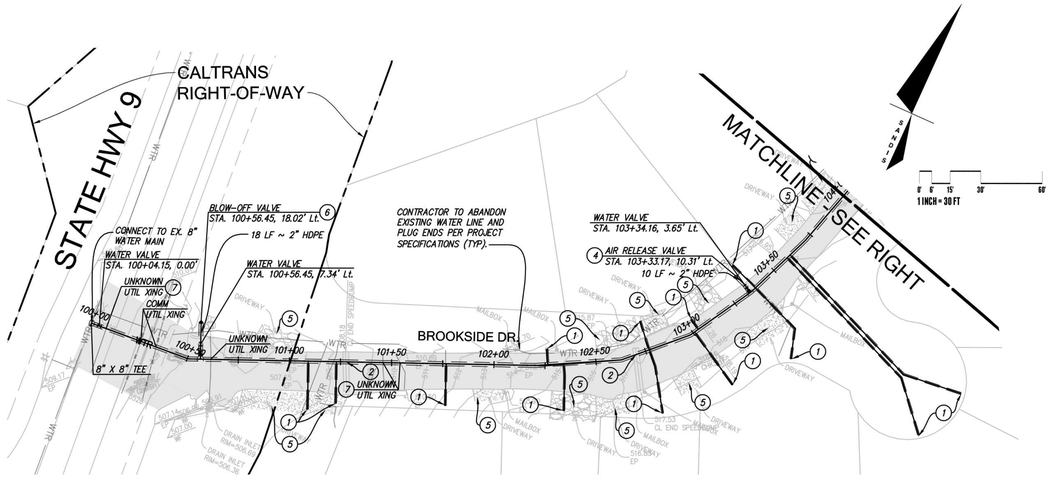
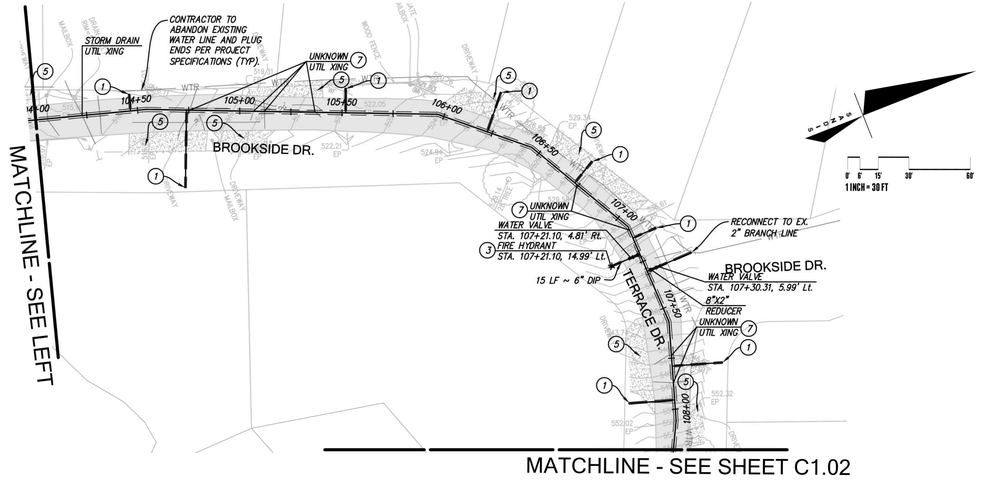




LEGEND

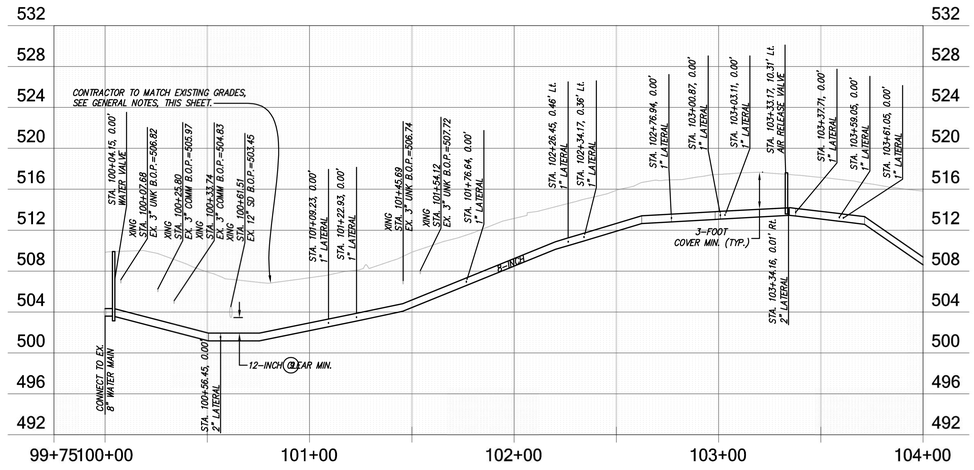
- LIMIT OF TRENCH — EP–1 C2.01
- 2" AC OVERLAY — 2 C2.01
- FULL SECTION ASPHALT PAVEMENT — 1 C2.01
- REPLACE LANDSCAPE IN–KIND OR BETTER
- PROPOSED WATER VALVE — SD–1 C2.00

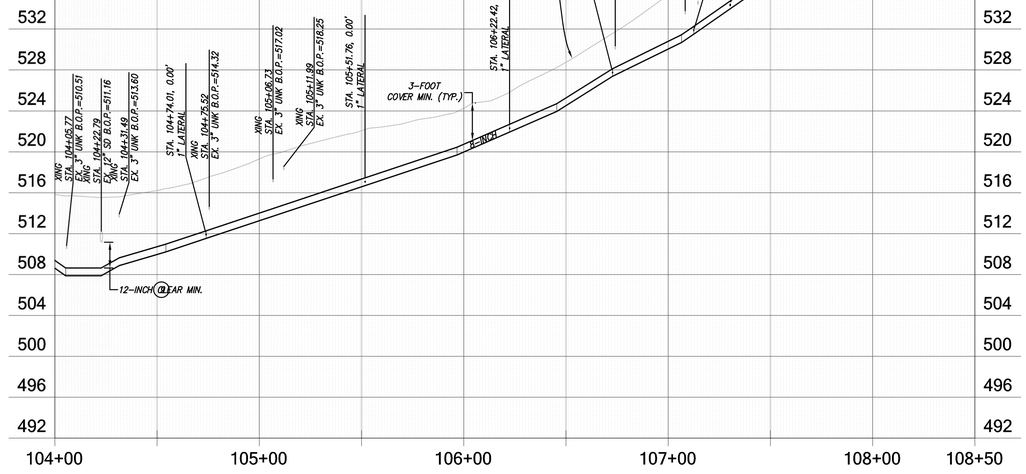
SHEET NOTES

1. NEW 1" SERVICE LATERALS UP TO EXISTING WATER METERS PER SD–4, SHEET C2.00, AND RECONNECT SERVICE.
2. CONTRACTOR TO RESTORE EXISTING SPEEDBUMPS IN PER DETAIL ST–13A, SHEET C2.01.
3. NEW FIRE HYDRANT PER DETAIL SD–3, SHEET C2.00.
4. NEW 2–INCH AIR RELEASE VALVE PER DETAIL SD–7, SHEET C2.00.
5. EXISTING DRIVEWAY TO BE PROTECTED IN PLACE AND REPLACED IN KIND WHERE DISTURBED.
6. NEW 2–INCH BLOW OFF VALVE PER DETAIL SD–6, SHEET C2.00.
7. CAUTION! UNKNOWN UTILITY CROSSING. CONTRACTOR TO POTHOLE TO DETERMINE UTILITY SIZE AND TYPE
8. EXISTING FIRE HYDRANT TO BE REMOVED.
8. INSTALL HDPE SLEEVE BELOW SD CROSSING. SEE DETAIL SD–9, SHEET C2.00.

GENERAL NOTES:

1. SEE SHEET C–0.02 FOR CONSTRUCTION NOTES AND LEGENDS.
2. ALL PAVEMENT RESTORATION TO BE FULL ROAD WIDTH, WITH EXCEPTION OF WORK WITHIN CALTRANS RIGHT–OF–WAY. REFER TO PLAN SHEET FOR PAVEMENT RESTORATION TYPE AND DETAIL.





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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDOR III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE- BROOKSIDE DRIVE

SHEET C1.01

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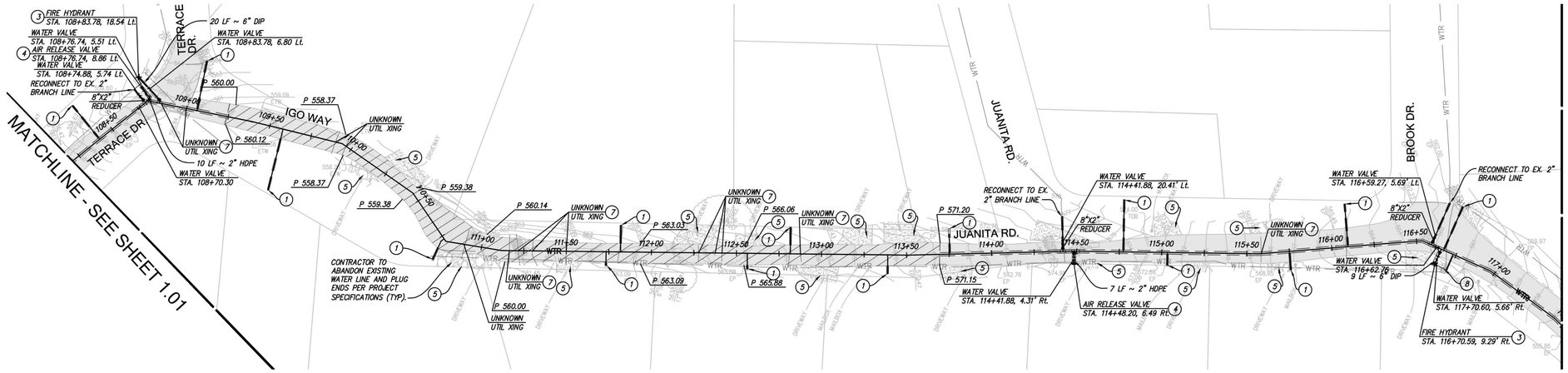
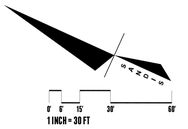
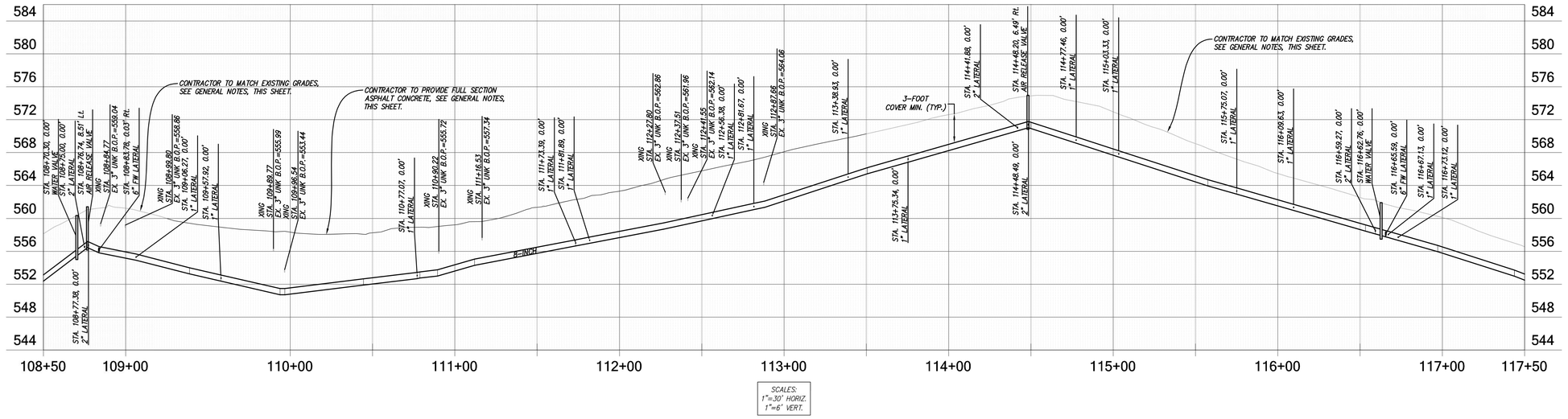




GENERAL NOTES:

1. SEE SHEET C1.01 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.



SCALES:
1"=30' HORIZ.
1"=6' VERT.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE- JUANITA ROAD

SHEET
C1.02

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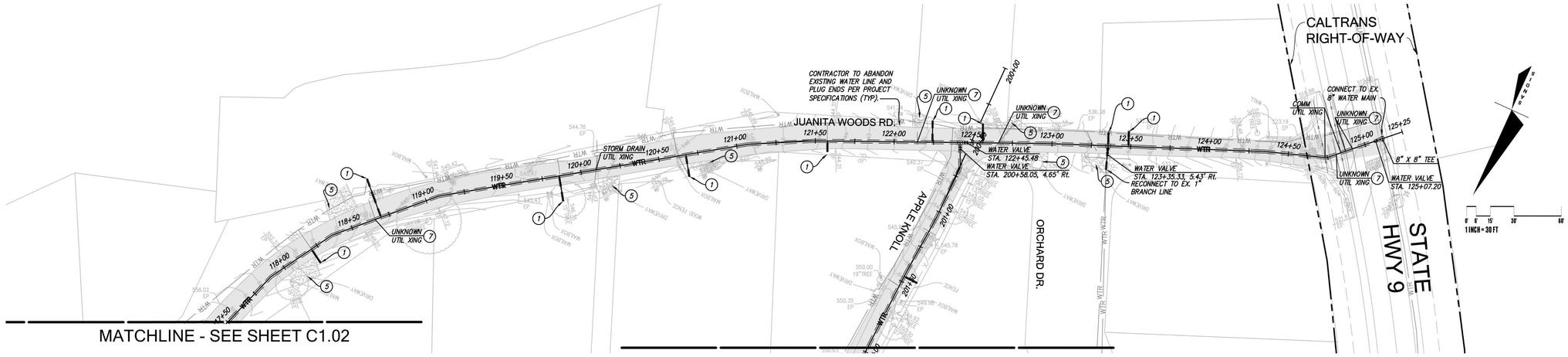
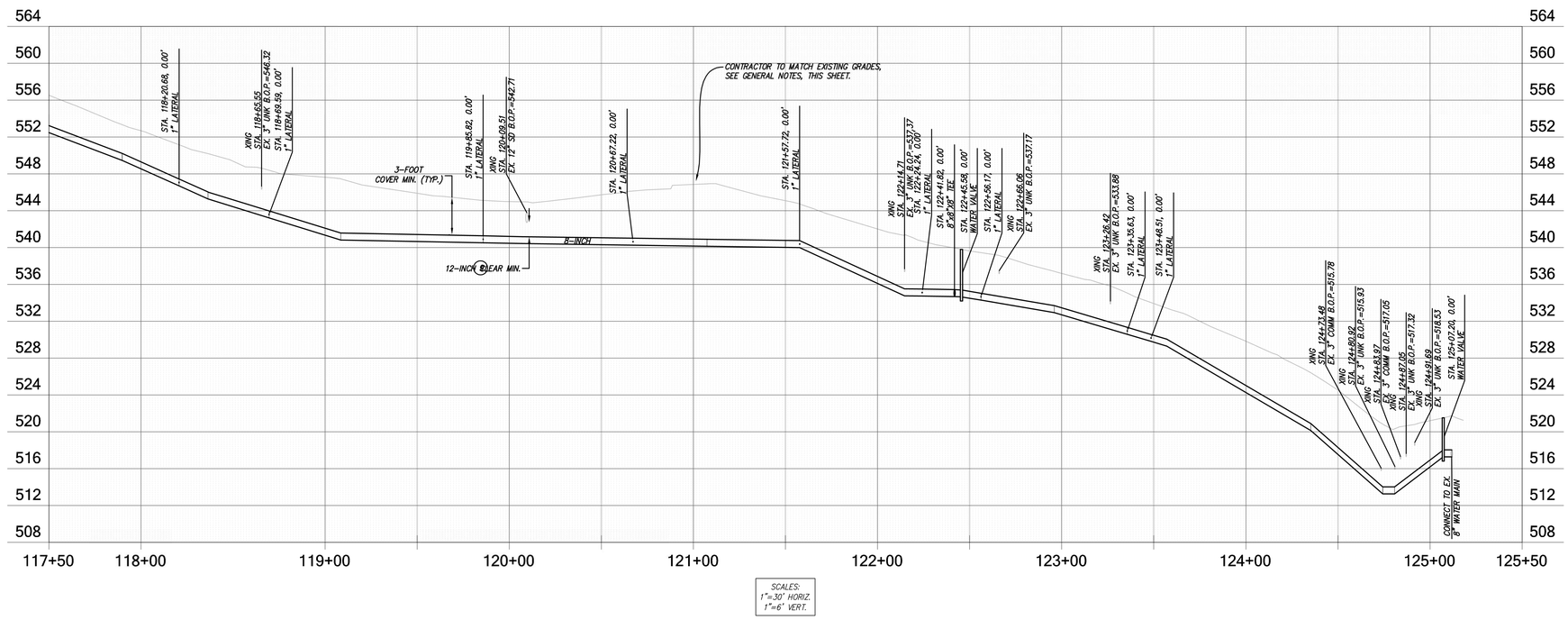


MATCHLINE - SEE SHEET C1.02

CONTINUATION - SEE SHEET C1.04

GENERAL NOTES:

1. SEE SHEET C1.01 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.



SCALES:
1"=30' HORIZ.
1"=6' VERT.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD COMUNG SANDOVAL No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE- JUANITA WOODS ROAD

SHEET
C1.03

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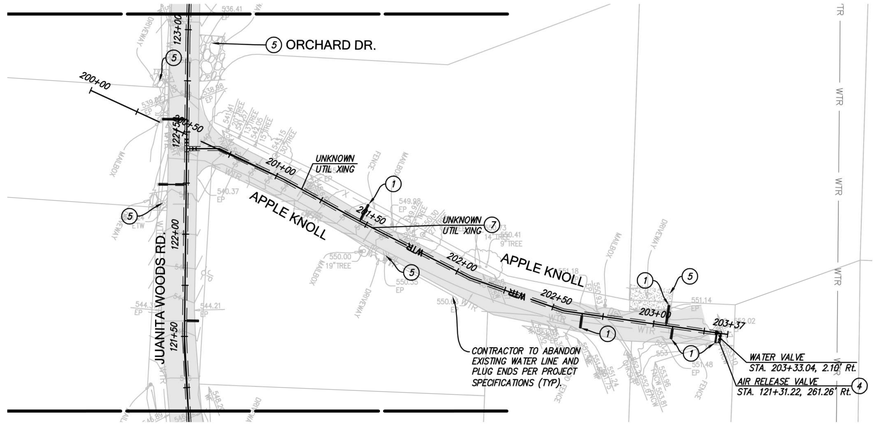
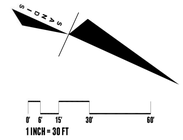
CONTINUATION - SEE SHEET C1.03

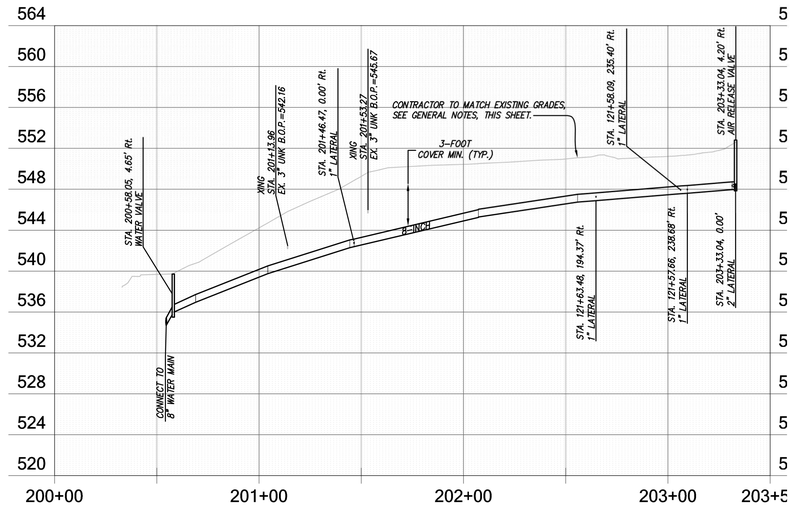




CONTINUATION - SEE SHEET C1.03

GENERAL NOTES:

1. SEE SHEET C1.01 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.



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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE-APPLE KNOLL

SHEET C1.04

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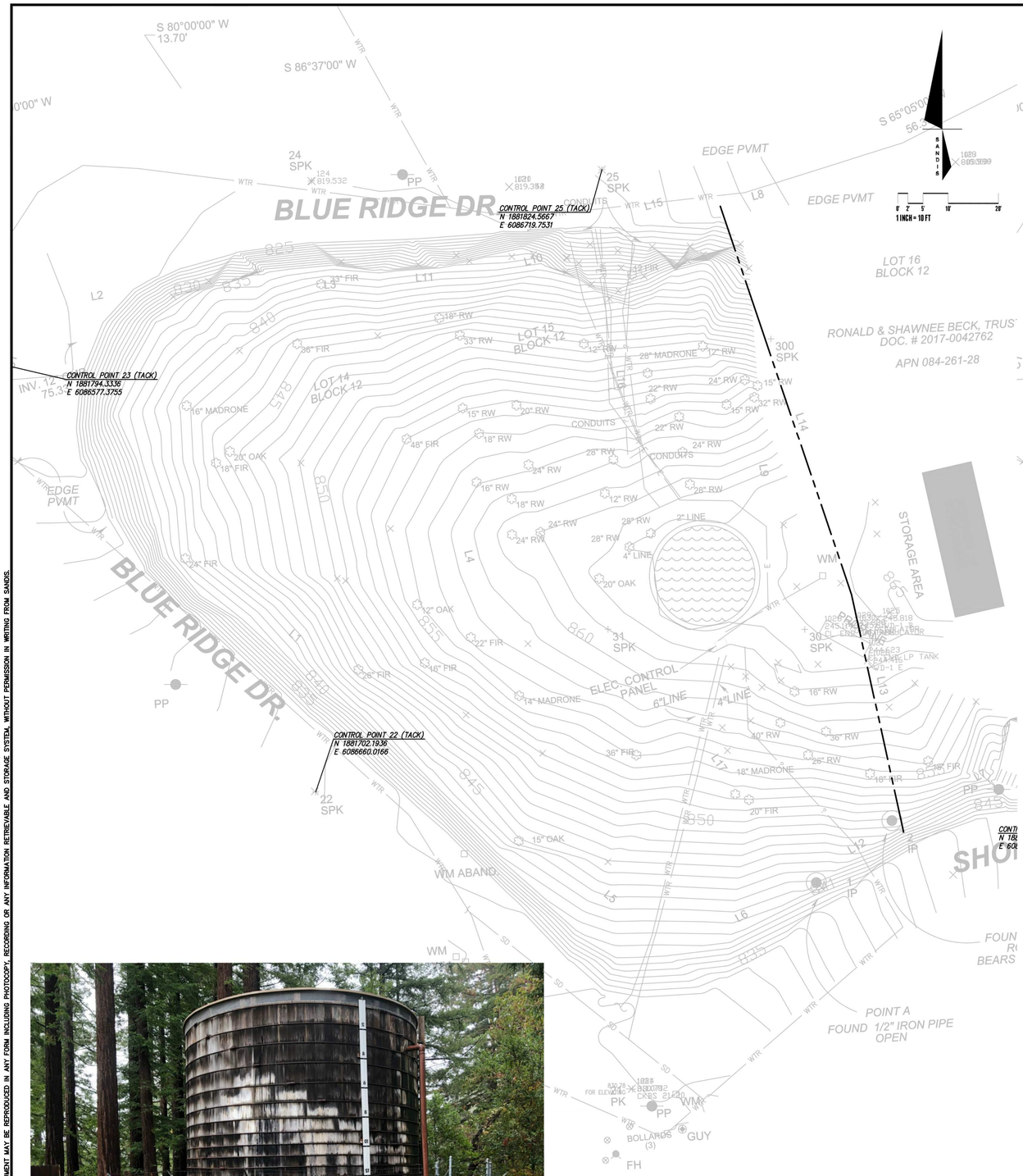
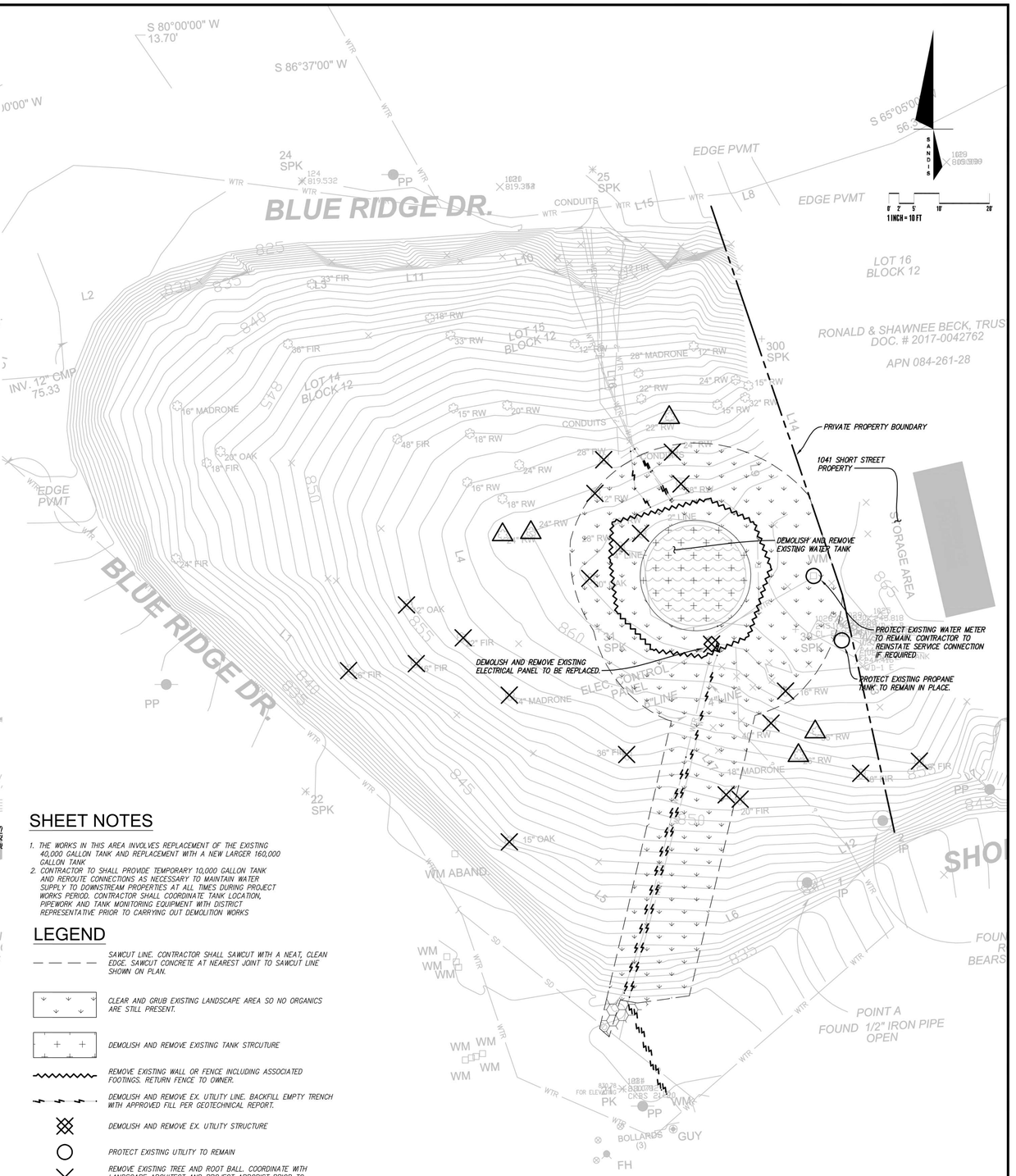


EXISTING CONDITIONS
1"=10'

EXISTING 40,000gal REDWOOD TANK



DEMOLITION PLAN
1"=10'

SHEET NOTES

1. THE WORKS IN THIS AREA INVOLVES REPLACEMENT OF THE EXISTING 40,000 GALLON TANK AND REPLACEMENT WITH A NEW LARGER 160,000 GALLON TANK
2. CONTRACTOR TO SHALL PROVIDE TEMPORARY 10,000 GALLON TANK AND REROUTE CONNECTIONS AS NECESSARY TO MAINTAIN WATER SUPPLY TO DOWNSTREAM PROPERTIES AT ALL TIMES DURING PROJECT WORKS PERIOD. CONTRACTOR SHALL COORDINATE TANK LOCATION, PIPEWORK AND TANK MONITORING EQUIPMENT WITH DISTRICT REPRESENTATIVE PRIOR TO CARRYING OUT DEMOLITION WORKS

LEGEND

- SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.
- CLEAR AND GRUB EXISTING LANDSCAPE AREA SO NO ORGANICS ARE STILL PRESENT.
- DEMOLISH AND REMOVE EXISTING TANK STRCUTURE
- REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED FOOTINGS. RETURN FENCE TO OWNER.
- DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT.
- DEMOLISH AND REMOVE EX. UTILITY STRUCTURE
- PROTECT EXISTING UTILITY TO REMAIN
- REMOVE EXISTING TREE AND ROOT BALL. COORDINATE WITH LANDSCAPE ARCHITECT AND PROJECT ARBORIST PRIOR TO REMOVING ANY TREES.
- PROTECT EXISTING TREE TO REMAIN. SEE LANDSCAPE PLANS AND ARBORIST'S REPORT FOR TREE PROTECTION DETAILS.

RIGHT-OF-WAY NOTE

WORK WITHIN BLUE RIDGE DRIVE AND SHORT STREET IS WITHIN THE CITY OF BOULDER CREEK RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST CITY OF BOULDER CREEK STANDARD PLANS AND SPECIFICATIONS. CONTRACTOR TO OBTAIN NECESSARY ENCROACHMENT PERMITS FOR ANY WORK ACTIVITIES OR CONSTRUCTION OCCURRING WITHIN THE ASSOCIATED RIGHT-OF-WAY.

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=10'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDI III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

EXISTING CONDITIONS AND DEMOLITION PLAN - BLUE RIDGE TANK

SHEET C1.05 OF SHEETS

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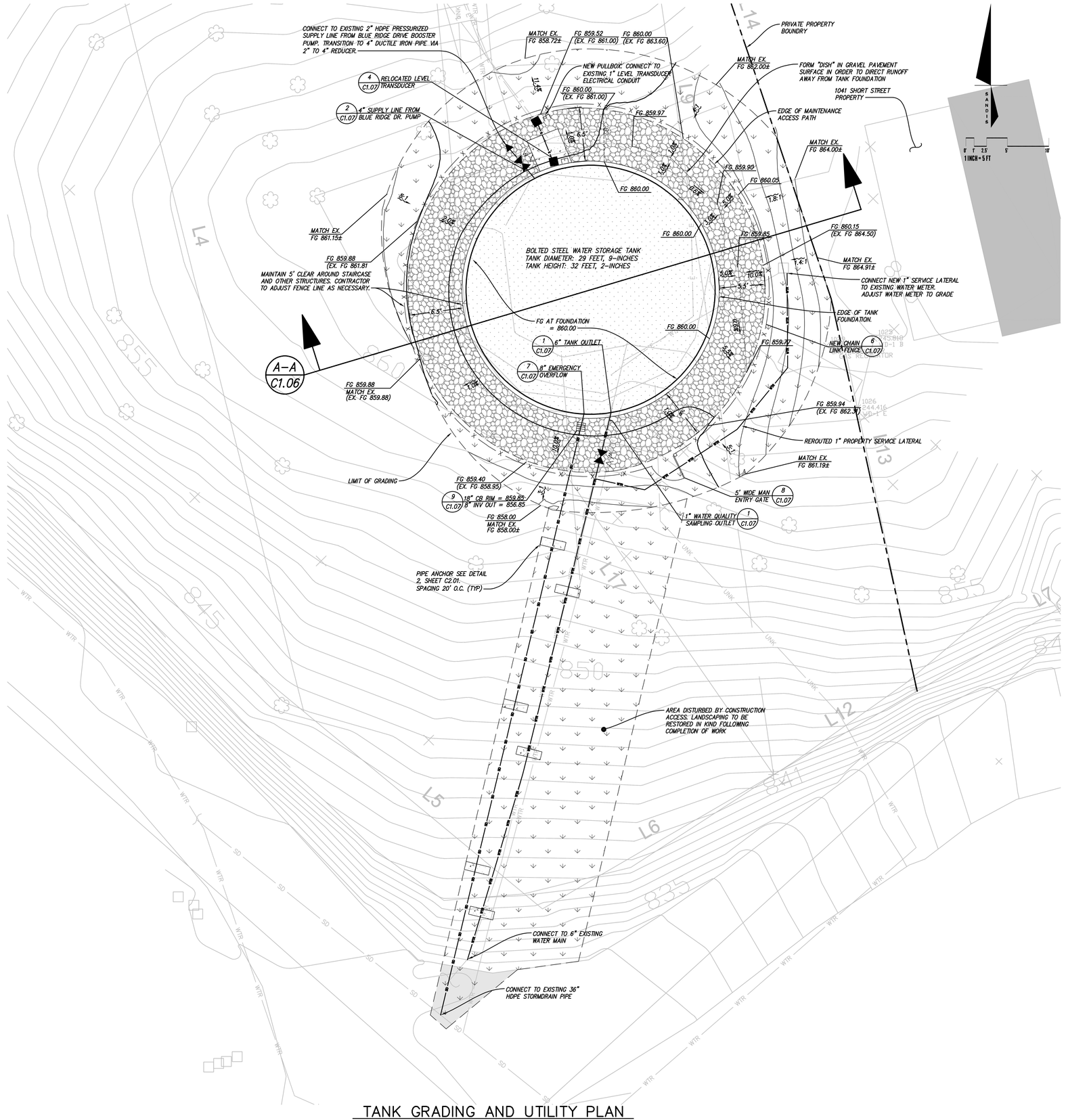
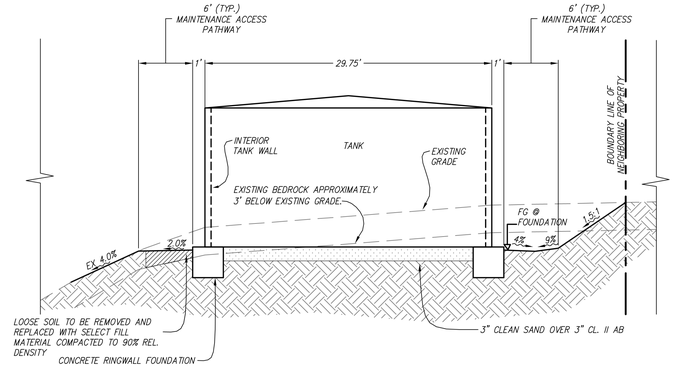


TANK GRADING AND UTILITY PLAN

SCALE: 1:5



SECTION A-A

N.T.S.

GRADING NOTES

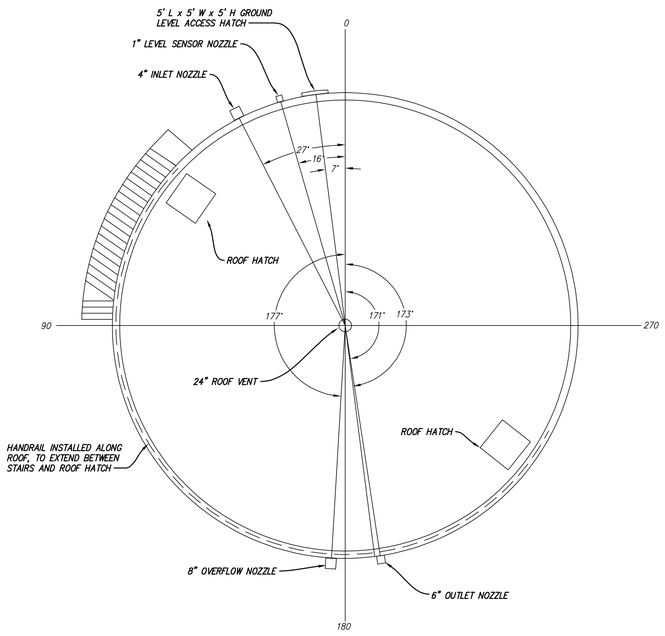
1. 6' WIDE (TYP.) ACCESS PATHWAY TO BE INSTALLED AROUND TANK PERIMETER.
2. MINIMUM 7' HORIZONTAL DISTANCE SHALL BE PROVIDED BETWEEN THE ADJACENT SLOPE AND THE BOTTOM OF THE RING FOUNDATION PER GEOTECH RECOMMENDATIONS.
3. MIN. 2' SUB-EXCAVATION REQUIRED AROUND TANK PERIMETER WHERE LOOSE TOPSOIL IS ENCOUNTERED. SUB-EXCAVATION SHOULD EXTEND 5' BEYOND TANK PERIMETER PER GEOTECH RECOMMENDATIONS.
4. LIMIT OF GRADING HAS BEEN BASED ON RECCOMENDATIONS IN HARO, KASUNICH & ASSOCIATES GEOTECHNICAL REPORT, DATED 20th AUGUST 2021
5. IT IS ANTICIPATED THAT EXISTING NATIVE SOIL AND BEDROCK MATERIAL CAN BE REUSED AS ENGINEERING FILL ONSITE.
6. DEPTH OF BEDROCK LAYER IS BASED ON BOREHOLE LOG INFO CONTAINED IN HARO, KASUNICH & ASSOCIATES GEOTECHNICAL REPORT, DATED 20th AUGUST 2021
7. PERMENANT CUT SLOPES IN BEDROCK CAN BE CONSTRUCTED AT NO STEEPER THAN A 1:1 SLOPE PER GEOTECH RECOMMENDATIONS.
8. ANY FINISHED SURFACES GRADED ABOVE A 3:1 SLOPE SHALL BE OVERLAIN WITH COCONUT COIR EROSION AND SEDIMENT CONTROL NETTING AND REVEGETATED WITH HYDROSEED
9. COMPACTED FILL SLOPES SHOULD BE CONSTRUCTED AT A SLOPE INCLINATION NO STEEPER THAN 3:1 PER GEOTECH RECOMMENDATIONS.

TANK PERFORMANCE CRITERIA

BOLTED STEEL TANK SHALL INCLUDE TO FOLLOWING CRITERIA/ELEMENTS:

A. 160,000 GALLON TOTAL VOLUME
B. 120,000 GALLON ACTIVE STORAGE VOLUME
C. 7.82 FT SEISMIC FREEBOARD FROM TANK OVERFLOW TO ROOF
D. ORIFICE SCHEDULE AS FOLLOWS:
   1. 6-INCH DIA NOZZLE (OUTLET) 0.75' ABOVE TANK BOTTOM
   2. 1-INCH DIA NOZZLE (TRANSDUCER) 0.5' ABOVE TANK BOTTOM
   3. 8-INCH DIA NOZZLE W/ ANTI-VORTEX OUTLET (OVERFLOW) 24.35' ABOVE TANK BOTTOM
   4. 4-INCH DIA NOZZLE (INLET) 25.35' ABOVE TANK BOTTOM
D. 24-INCH DIA SHELL MANWAY
E. 2x24-INCH ROOF HATCH
F. 20-INCH DIA ROOF VENT
G. OSHA COMPLIANT SPIRAL STAIRCASE
H. LIQUID LEVEL INDICATOR
I. TANK COLOR: GREEN

*BASED ON A 29.75' DIA X 32.17' HEIGHT TANK. FINAL ORIFICE ELEVATIONS SHALL BE COORDINATED WITH DISTRICT AND DESIGN TEAM PRIOR TO PROCURING TANK



TANK APPURTENANCES DIAGRAM

N.T.S.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=5'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

SITE, GRADING, AND UTILITY PLAN - BLUE RIDGE TANK

SHEET C1.06

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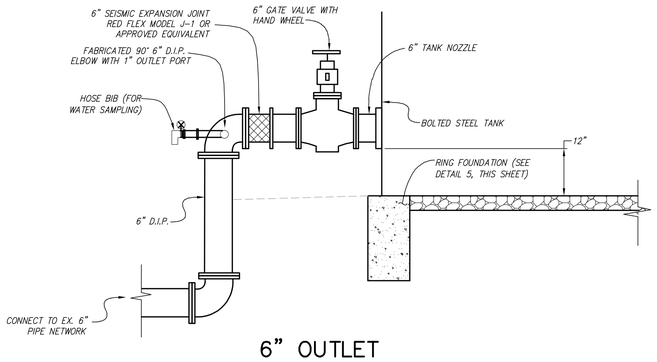
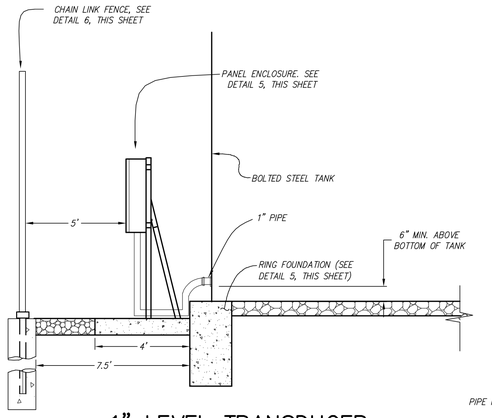


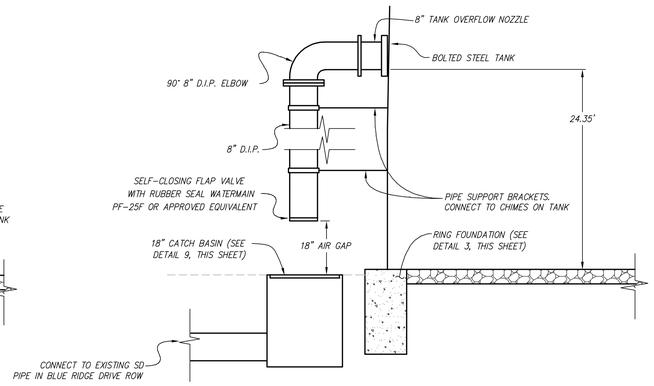
6" OUTLET CONNECTION DETAIL

N.T.S. — 1



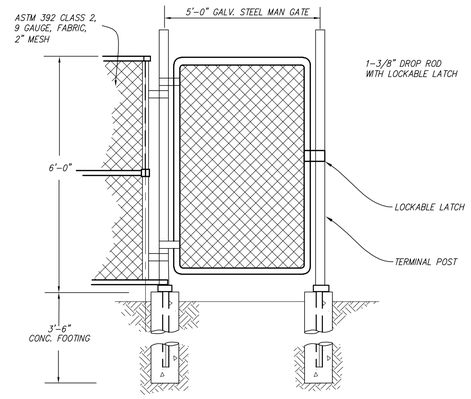
1" LEVEL TRANSDUCER PRESSURE SENSOR LINE

N.T.S. — 4



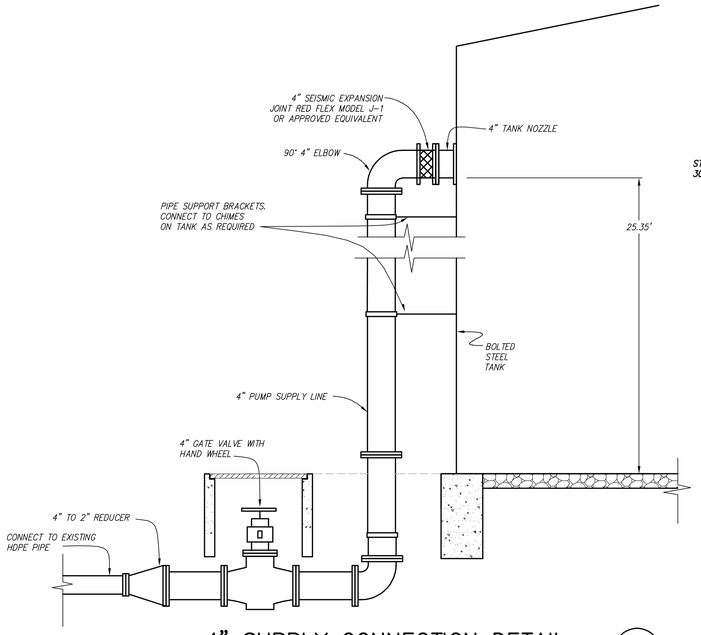
8" OVERFLOW DETAIL

N.T.S. — 7



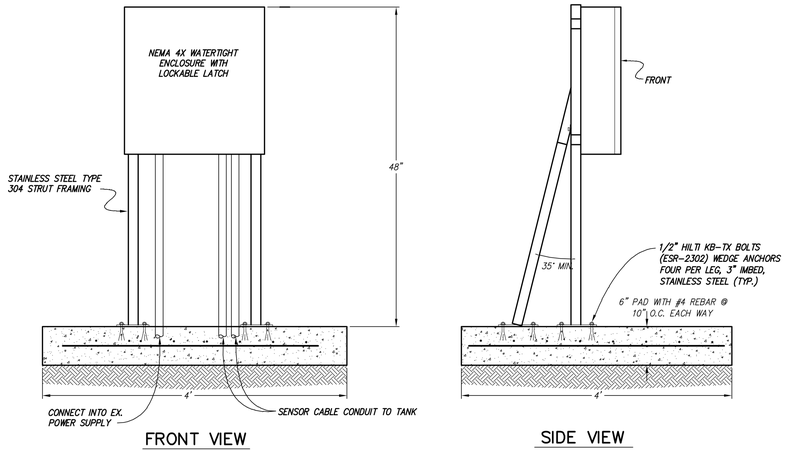
CHAIN LINK SWING SINGLE GATE

N.T.S. — 8



4" SUPPLY CONNECTION DETAIL

N.T.S. — 2



FRONT VIEW — SIDE VIEW

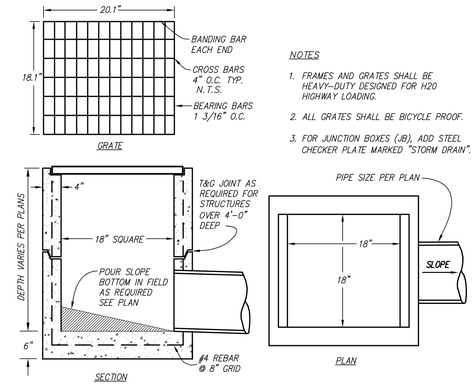
NOTES:

A. FRAMING AND HARDWARE TO BE STAINLESS STEEL.

B. ALL COMPONENTS OF CONTROL PANEL SHALL MEET CLASS ONE, DIVISION ONE NEC REQUIREMENTS. CONDUITS SHALL BE INSTALLED PER NEC CLASS ONE, DIVISION ONE REQUIREMENTS REQUIREMENTS.

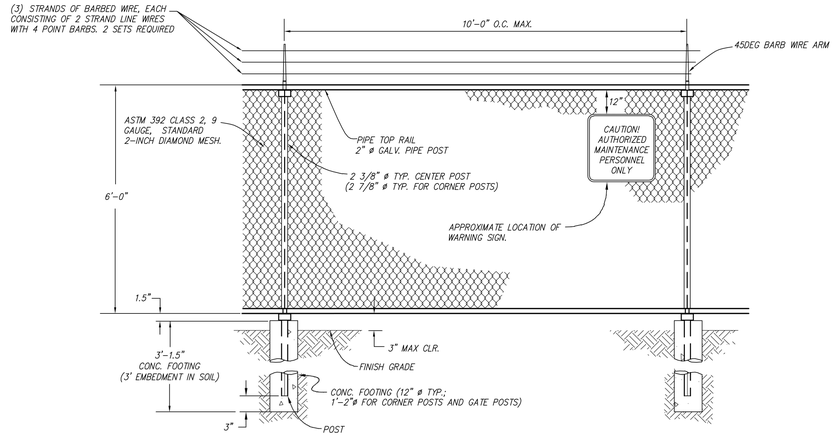
TRANSDUCER CONTROL PANEL MOUNTING DETAIL

N.T.S. — 5



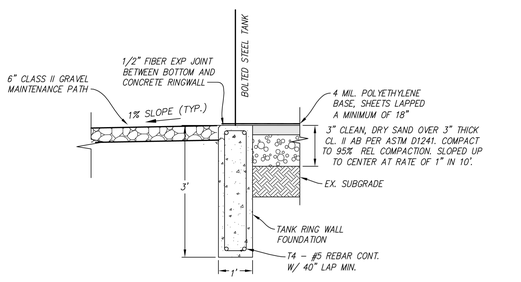
18" CATCH BASIN DETAIL

N.T.S. — 9



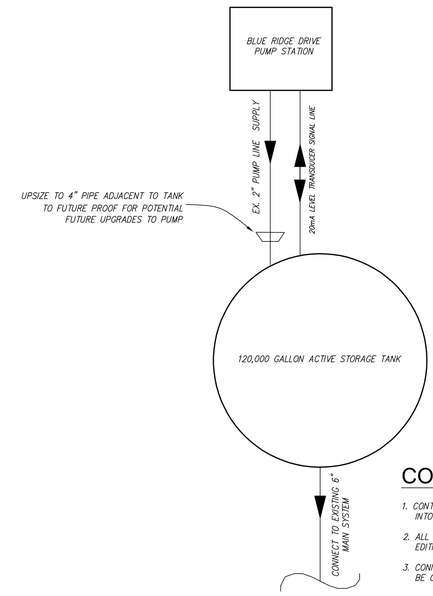
TYP. CHAIN LINK FENCE DETAIL

N.T.S. — 6



TYPICAL SECTION AT TANK RINGWALL FOUNDATION

N.T.S. — 3



CONTROL NOTES

1. CONTRACTOR SHALL MAKE CONNECTIONS NECESSARY TO RECONNECT INTO EX. PUMP CONTROL AND DISTRICT SCADA SYSTEM.
2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRIC CODE.
3. CONNECTIONS AND SHUTDOWN TO EXISTING ELECTRICAL SYSTEM SHALL BE COORDINATED WITH DISTRICTS ELECTRICIAN

TANK UTILITY LINE DIAGRAM

N.T.S. — 10

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=10'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS III — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

BLUE RIDGE TANK DETAILS

SHEET C1.07

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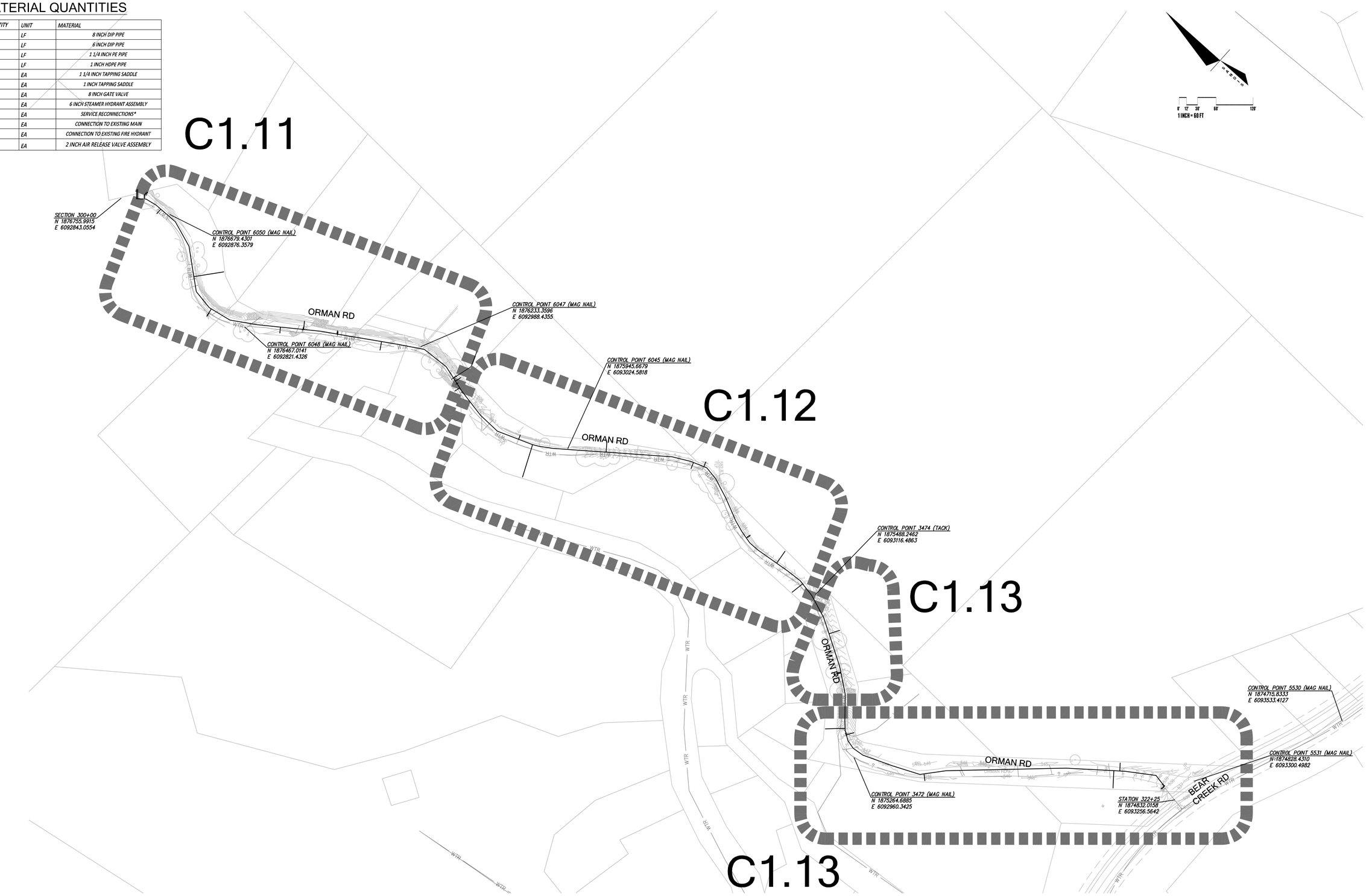
MATERIAL QUANTITIES

QUANTITY	UNIT	MATERIAL
2230	LF	8 INCH DIP PIPE
27	LF	6 INCH DIP PIPE
5	LF	1 1/4 INCH PE PIPE
290	LF	1 INCH HDPE PIPE
1	EA	1 1/4 INCH TAPPING SADDLE
22	EA	1 INCH TAPPING SADDLE
2	EA	8 INCH GATE VALVE
3	EA	6 INCH STEAMER HYDRANT ASSEMBLY
22	EA	SERVICE RECONNECTIONS*
1	EA	CONNECTION TO EXISTING MAIN
1	EA	CONNECTION TO EXISTING FIRE HYDRANT
1	EA	2 INCH AIR RELEASE VALVE ASSEMBLY



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RIGHT-OF-WAY NOTE

WORK WITHIN BEAR CREEK ROAD IS WITHIN CALTRANS RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS. WORK WITHIN ORMAN ROAD IS PRIVATE AND SHALL BE CONSTRUCTED PER THE LATEST SAN LORENZO VALLEY WATER DISTRICT STANDARD PLANS AND SPECIFICATIONS. CONTRACTOR TO OBTAIN NECESSARY ENCROACHMENT PERMITS FOR ANY WORK ACTIVITIES OR CONSTRUCTION OCCURRING WITHIN THE ASSOCIATED RIGHT-OF-WAY.

HORIZONTAL AND VERTICAL CONTROL NOTE

HORIZONTAL AND VERTICAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED INTO CALIFORNIA STATE PLANE COORDINATES NAD83 AND NAVD 88, EPOCH 2020.250.

SANDIS
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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER
RONALD EDMUND SANZONI
No. 79305
EXP. 3/31/24
CIVIL
STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY LAYOUT KEY MAP - ORMAN ROAD

SHEET
C1.10

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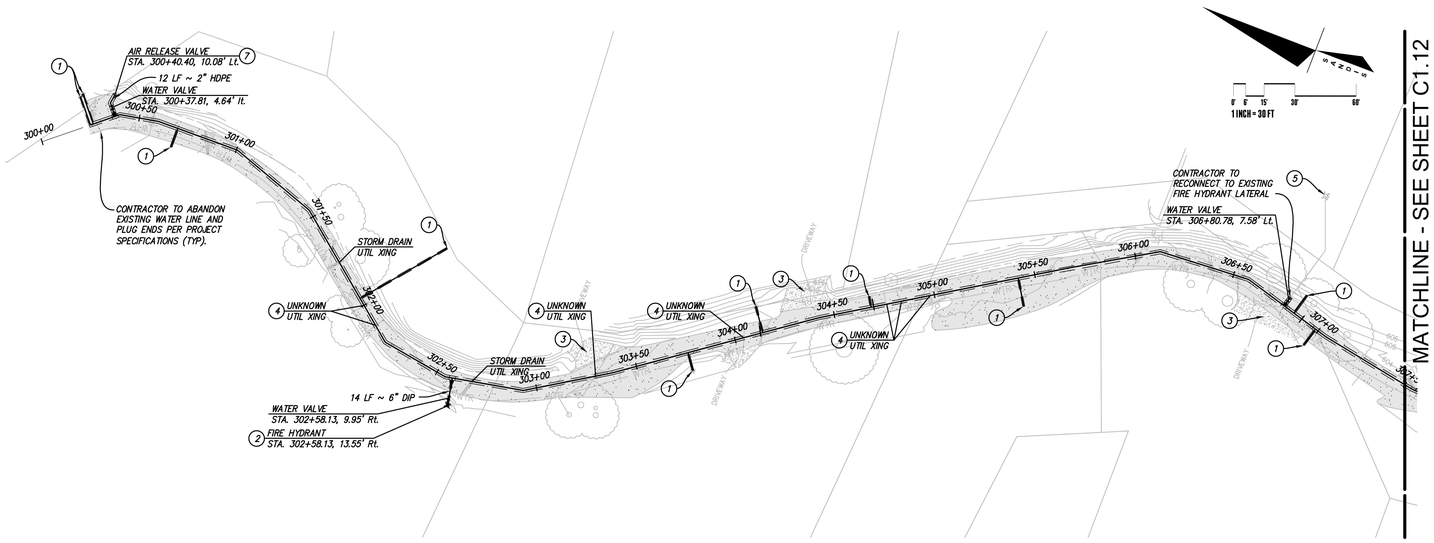

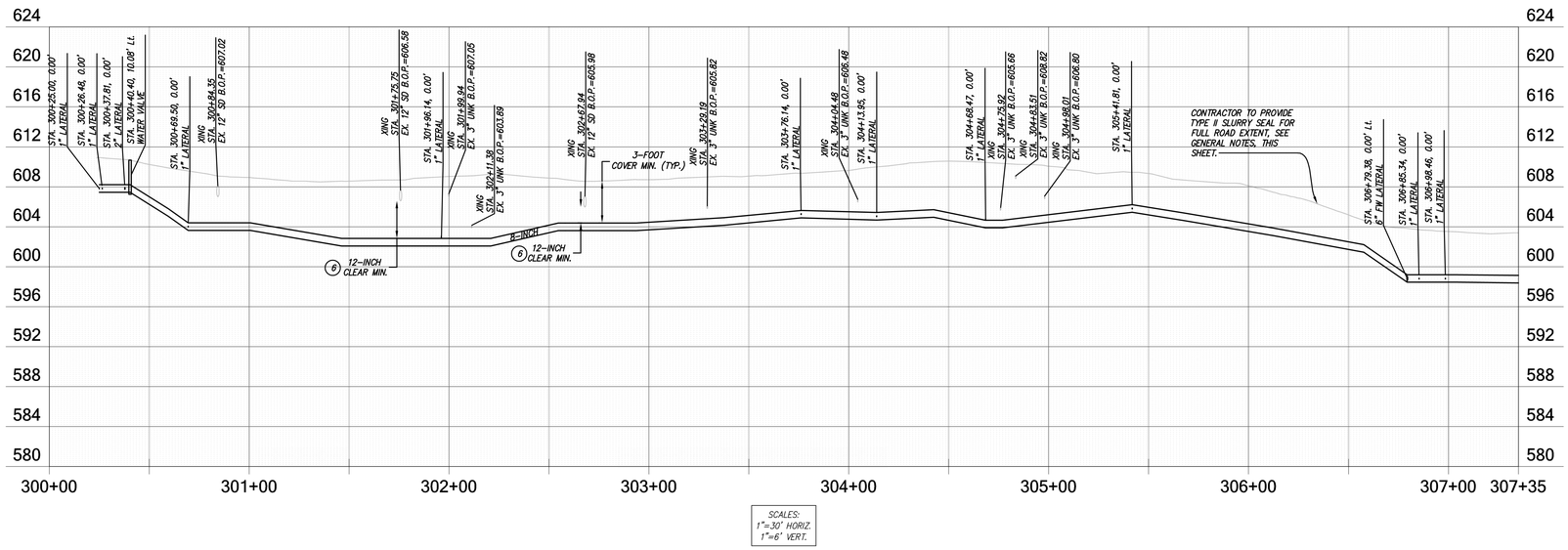

SCALES:
1"=30' HORIZ.
1"=6' VERT.

LEGEND

- LIMIT OF TRENCH — EP-1 / C2.01
- SLURRY SEAL
- REPLACE LANDSCAPE IN-KIND OR BETTER
- WV — PROPOSED WATER VALVE — SD-1 / C2.00

SHEET NOTES

1. NEW 1" SERVICE LATERALS UP TO EXISTING WATER METERS PER SD-4, SHEET C2.00, AND RECONNECT SERVICE.
2. NEW FIRE HYDRANT, PER DETAIL SD-3, SHEET C2.00.
3. EXISTING DRIVEWAY TO BE PROTECTED IN PLACE.
4. CAUTION! UNKNOWN UTILITY CROSSING. CONTRACTOR TO POTHOLE TO DETERMINE SIZE AND TYPE.
5. PROTECT EXISTING FIRE HYDRANT TO REMAIN.
6. INSTALL HDPE SLEEVE BELOW SD CROSSING. SEE DETAIL SD-9, SHEET C2.00.
7. NEW 2-INCH AIR RELEASE VALVE PER DETAIL SD-7, SHEET C2.0.

GENERAL NOTES:

1. SEE SHEET C-0.02 FOR CONSTRUCTION NOTES AND LEGENDS.
2. CONTRACTOR TO PROVIDE TYPE II SLURRY SEAL (FOR FULL ROAD EXTENT) ON ALL PRIVATE OWNED ROW.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANZO III — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - ORMAN ROAD

SHEET C1.11

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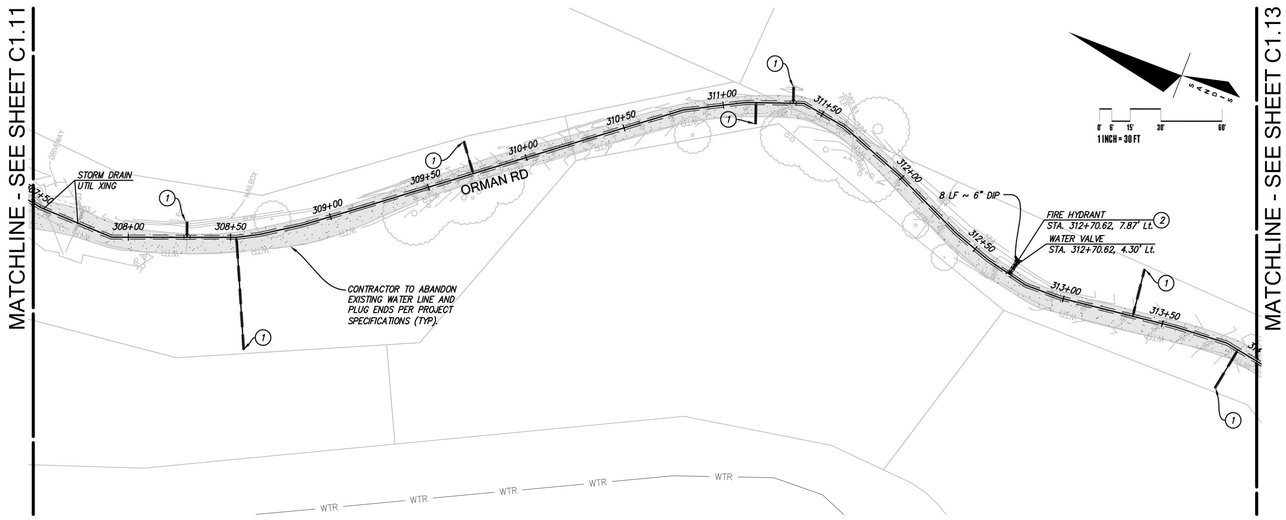

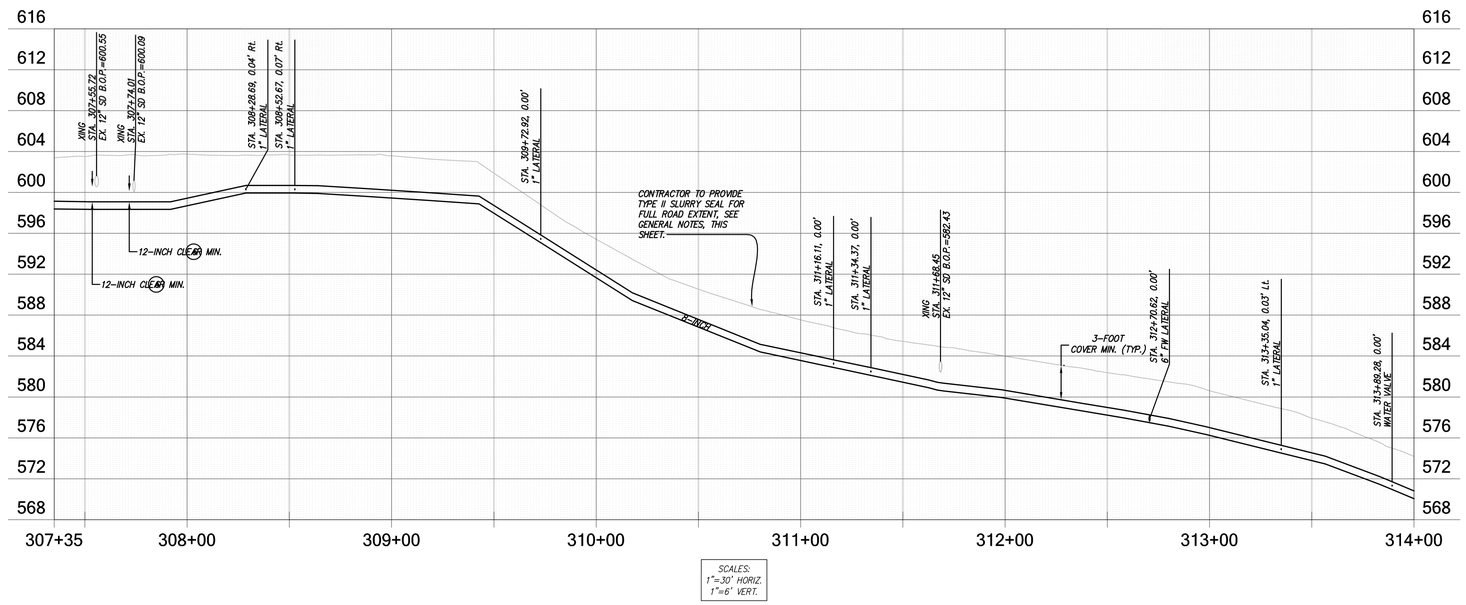

SCALES:
1"=30' HORIZ.
1"=6' VERT.

GENERAL NOTES:

1. SEE SHEET C-1.11 FOR GENERAL NOTES, LEGENDS, AND SHEET NOTES.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - ORMAN ROAD

SHEET C1.12

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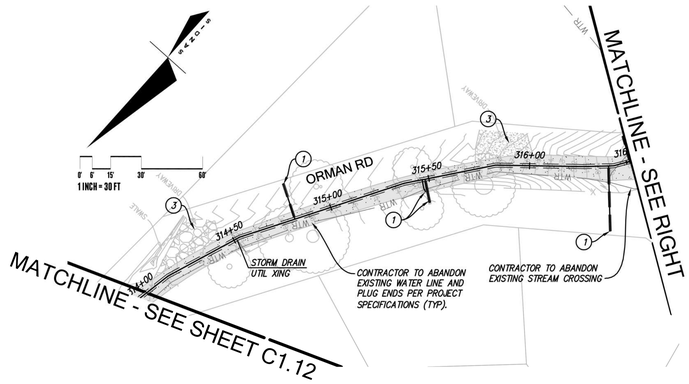
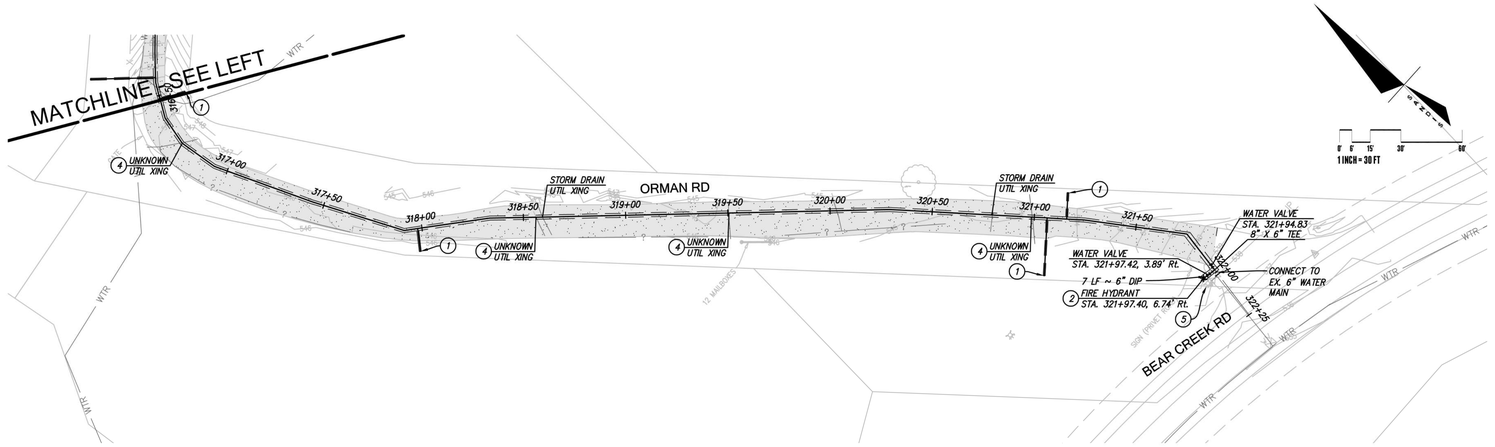
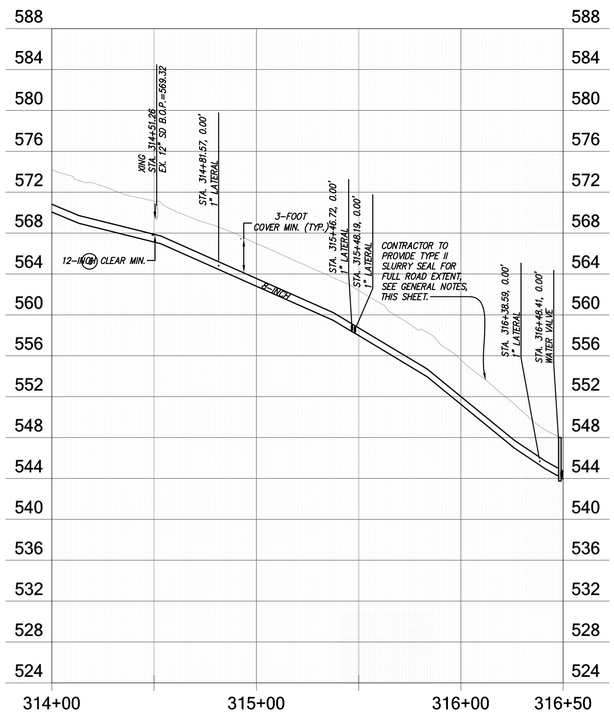




GENERAL NOTES:

1. SEE SHEET C1.11 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.



SCALES:
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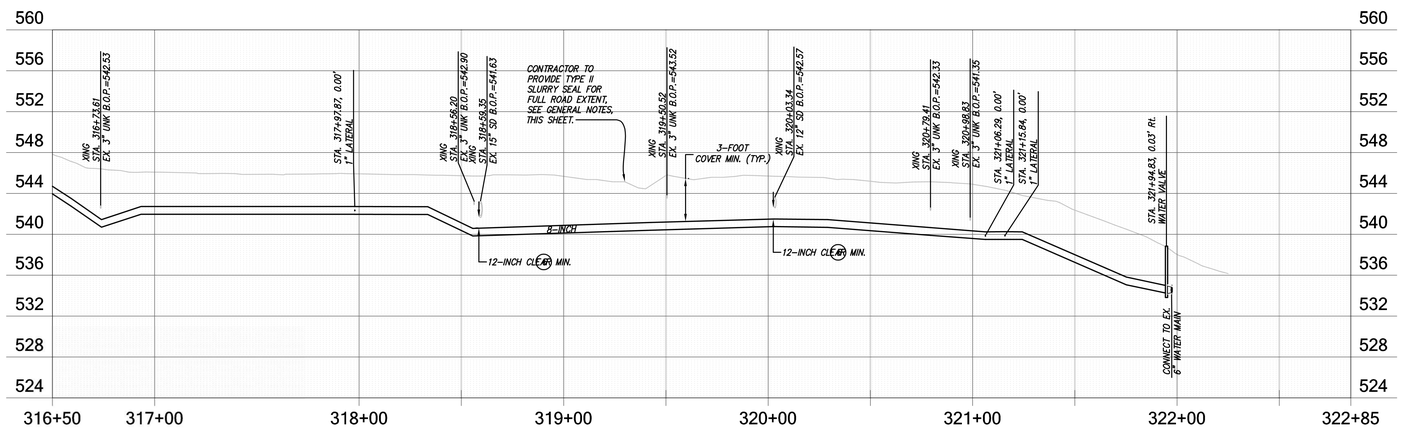
1"=6' VERT.



SCALES:
1"=30' HORIZ.
1"=6' VERT.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER
RONALD COMUNG SANTOS
No. 79305
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - ORMAN ROAD

SHEET
C1.13

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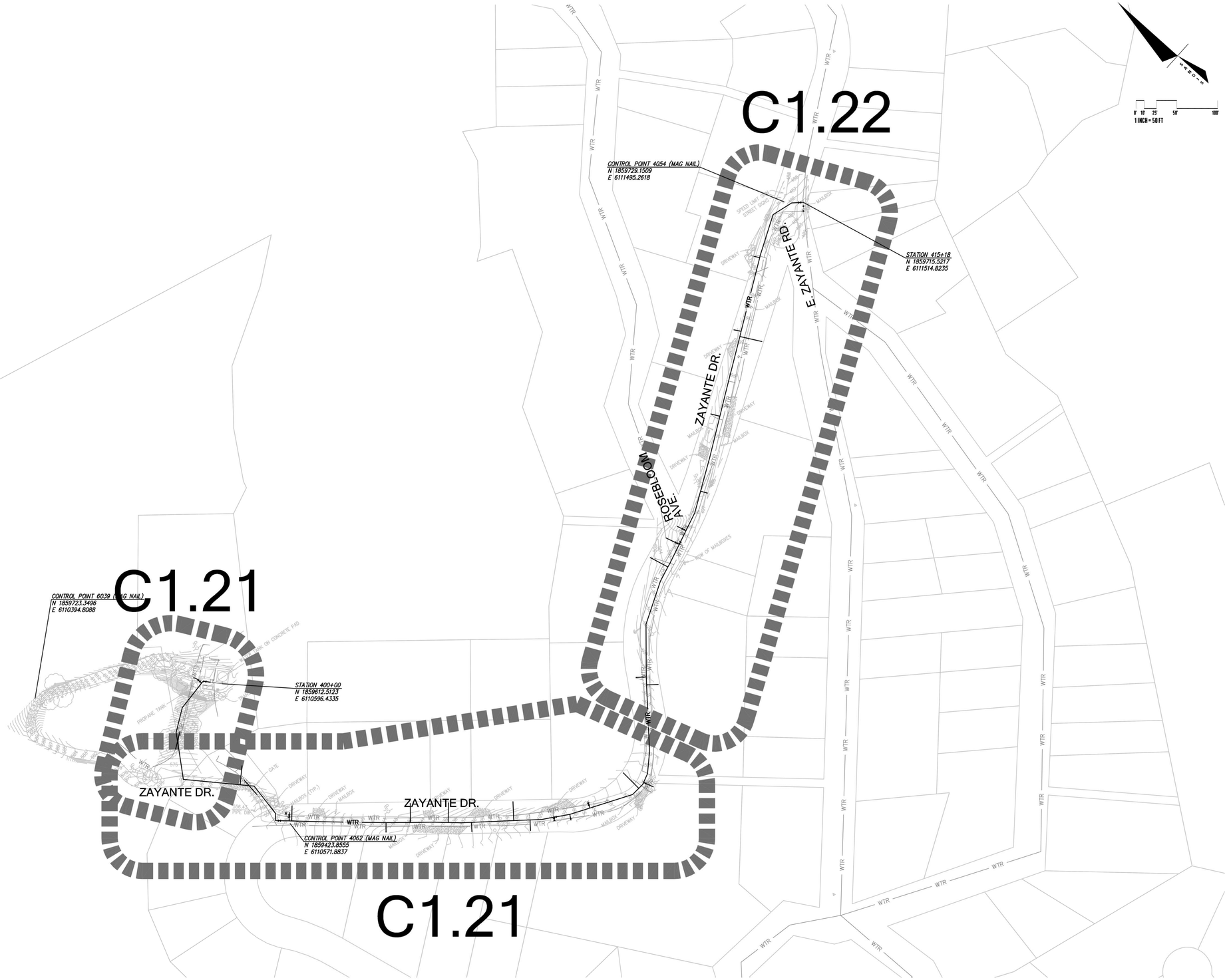
MATERIAL QUANTITIES

QUANTITY	UNIT	MATERIAL
1515	LF	8 INCH DIP PIPE
37	LF	6 INCH DIP PIPE
19	LF	4 INCH HDPE PIPE
184	LF	1 INCH HDPE PIPE
2	EA	4 INCH TAPPING SADDLE
18	EA	1 INCH TAPPING SADDLE
6	EA	8 INCH GATE VALVE
2	EA	8X6 INCH REDUCER
2	EA	6X4 INCH REDUCER
3	EA	6 INCH STEAMER HYDRANT ASSEMBLY
18	EA	SERVICE RECONNECTIONS*
3	EA	CONNECTION TO EXISTING MAIN



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RIGHT-OF-WAY NOTE

WORK WITHIN EAST ZAYANTE ROAD IS WITHIN CALTRANS RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS. WORK WITHIN ZAYANTE DRIVE IS PRIVATE AND SHALL BE CONSTRUCTED PER THE LATEST SAN LORENZO VALLEY WATER DISTRICT STANDARD PLANS AND SPECIFICATIONS. CONTRACTOR TO OBTAIN NECESSARY ENCROACHMENT PERMITS FOR ANY WORK ACTIVITIES OR CONSTRUCTION OCCURRING WITHIN THE ASSOCIATED RIGHT-OF-WAY.

HORIZONTAL AND VERTICAL CONTROL NOTE

HORIZONTAL AND VERTICAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED INTO CALIFORNIA STATE PLANE COORDINATES NAD83 AND NAVD 88, EPOCH 2020.250.

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS III — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY LAYOUT KEY MAP - ZAYANTE DRIVE

SHEET C1.20

File: X:\P\221572\4_ENGINEERING\2_PLAN SETS\3_SHEET SET\ONSITE\C1.20.dwg Date: Mar 30, 2022 - 3:46 PM

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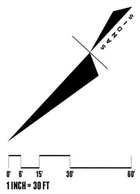
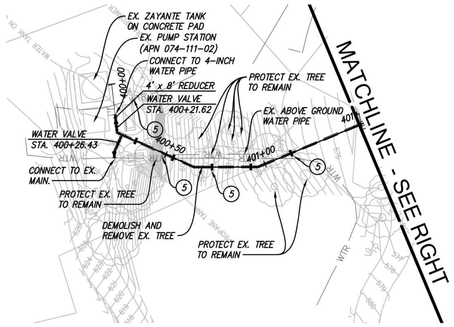
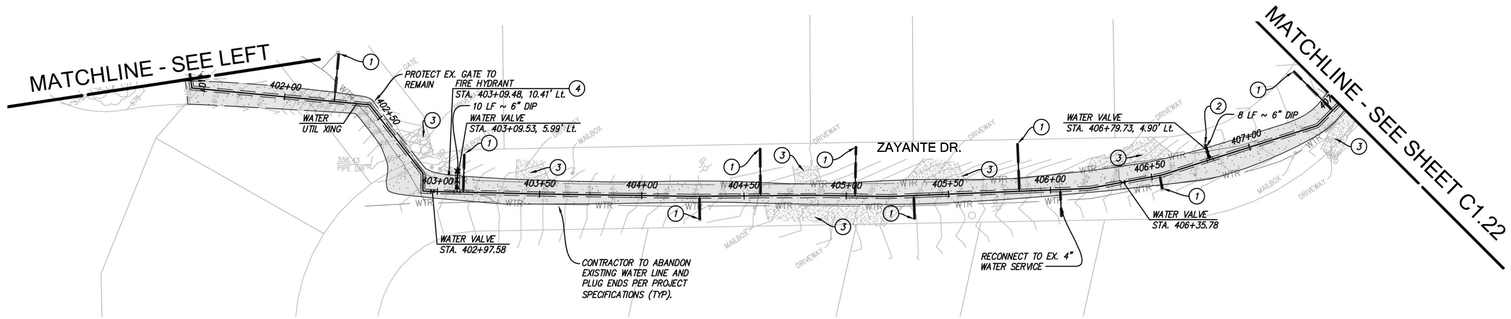






LEGEND

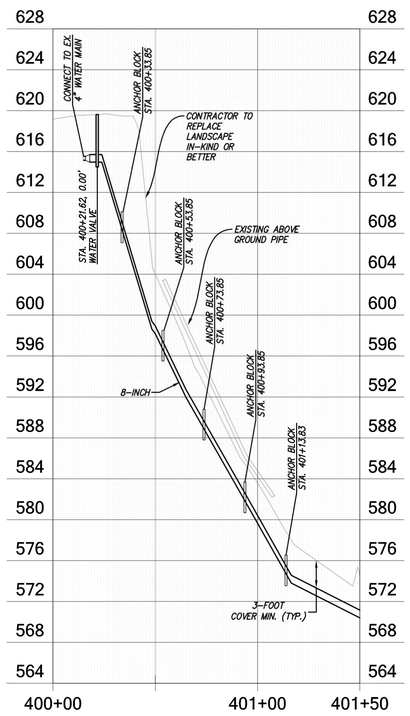
- LIMIT OF TRENCH — EP-1 C2.01
- SLURRY SEAL
- REPLACE LANDSCAPE IN-KIND OR BETTER
- WV PROPOSED WATER VALVE — SD-1 C2.00

SHEET NOTES

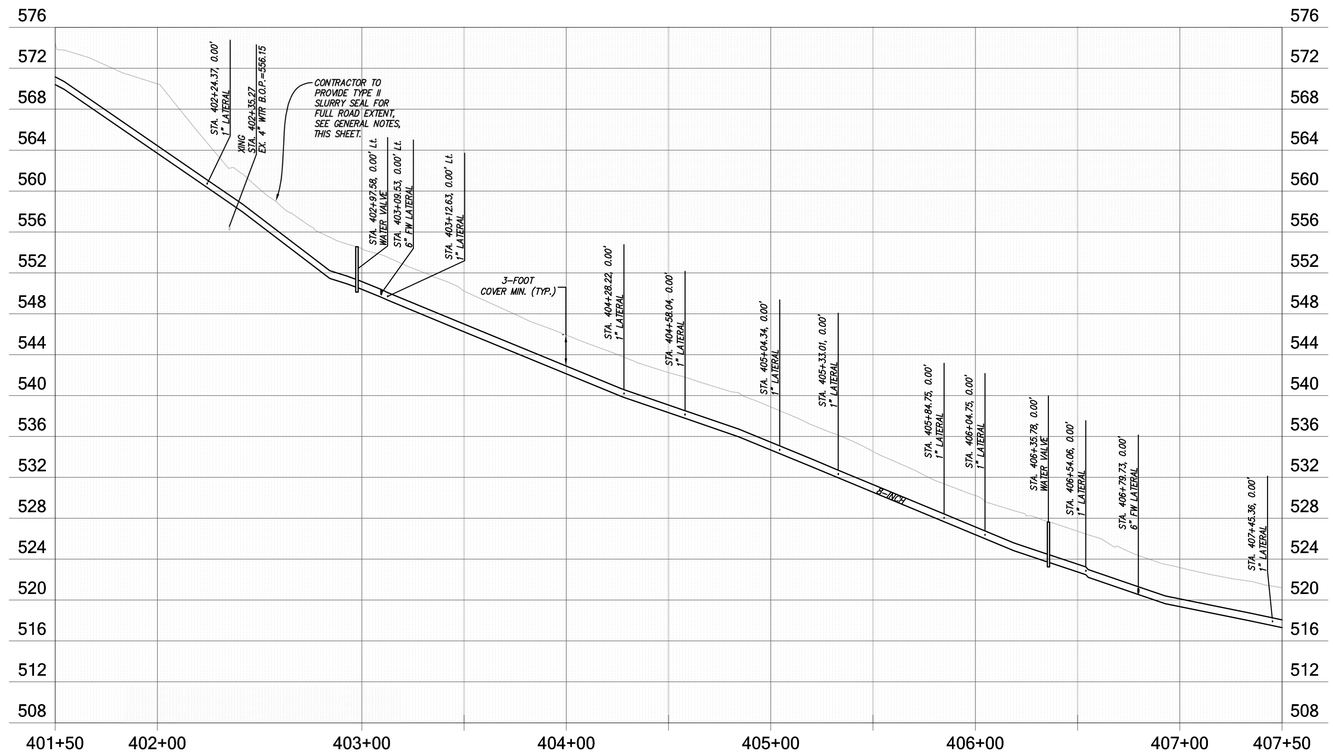
1. NEW 1" SERVICE LATERALS UP TO EXISTING WATER METERS PER SD-4, SHEET C2.0, AND RECONNECT SERVICE.
2. EXISTING FIRE HYDRANT TO BE CONNECTED TO NEW WATER LATERAL.
3. EXISTING DRIVEWAY TO BE PROTECTED IN PLACE.
4. NEW FIRE HYDRANT, PER DETAIL SD-3, SHEET C2.00.
5. PIPE ANCHOR, PER DETAIL 2, SHEET C2.01.
6. CAUTION! UNKNOWN UTILITY CROSSING CONTRACTOR TO POTHOLE TO DETERMINE SIZE AND TYPE.
7. EXISTING FIRE HYDRANT TO BE REMOVED.
8. INSTALL HDPE SLEEVE BELOW SD CROSSING. SEE DETAIL SD-9, SHEET C2.00.

GENERAL NOTES:

1. SEE SHEET C-0.02 FOR CONSTRUCTION NOTES AND LEGENDS.
2. CONTRACTOR TO PROVIDE TYPE II SLURRY SEAL (FOR FULL ROAD EXTENT) ON ALL PRIVATE OWNED ROW.



SCALES:
1"=30' HORIZ.
1"=6' VERT.



SCALES:
1"=30' HORIZ.
1"=6' VERT.

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SANDIS — BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS III — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - ZAYANTE DRIVE

SHEET C1.21

AC PAVEMENT RESURFACING

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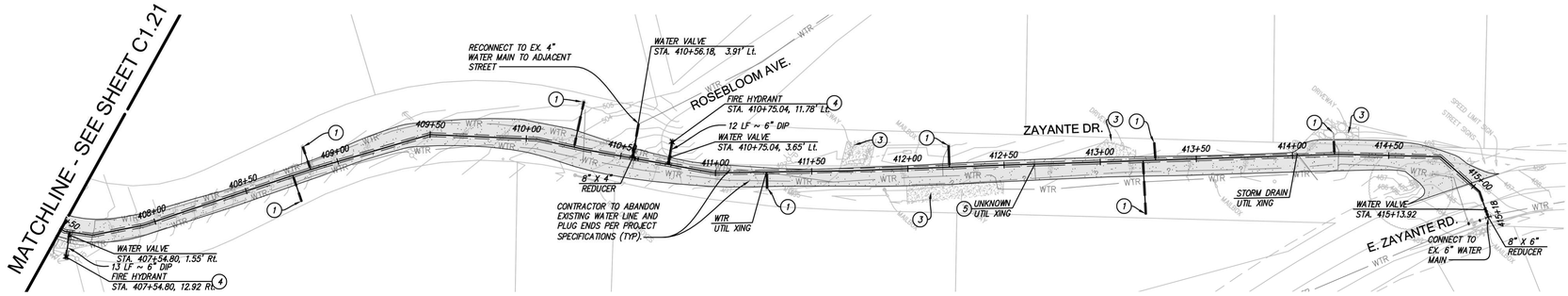

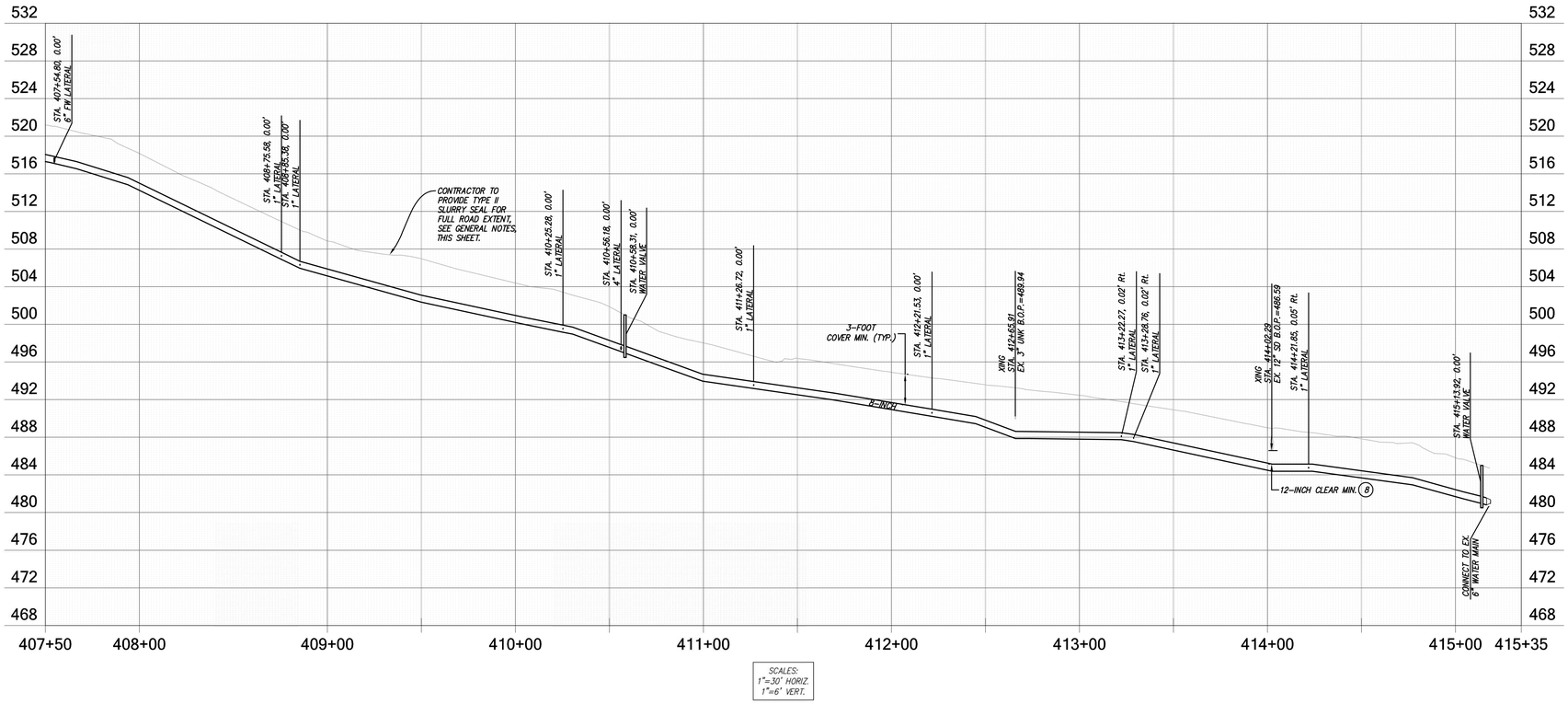

SCALES:
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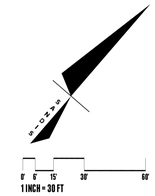
1"=6' VERT.



GENERAL NOTES:

1. SEE SHEET C1.21 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.

SANDIS
BUILD ON.
SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER
RONALD COMUNG SANDOR
No. 79305
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - ZAYANTE DRIVE

SHEET
C1.22

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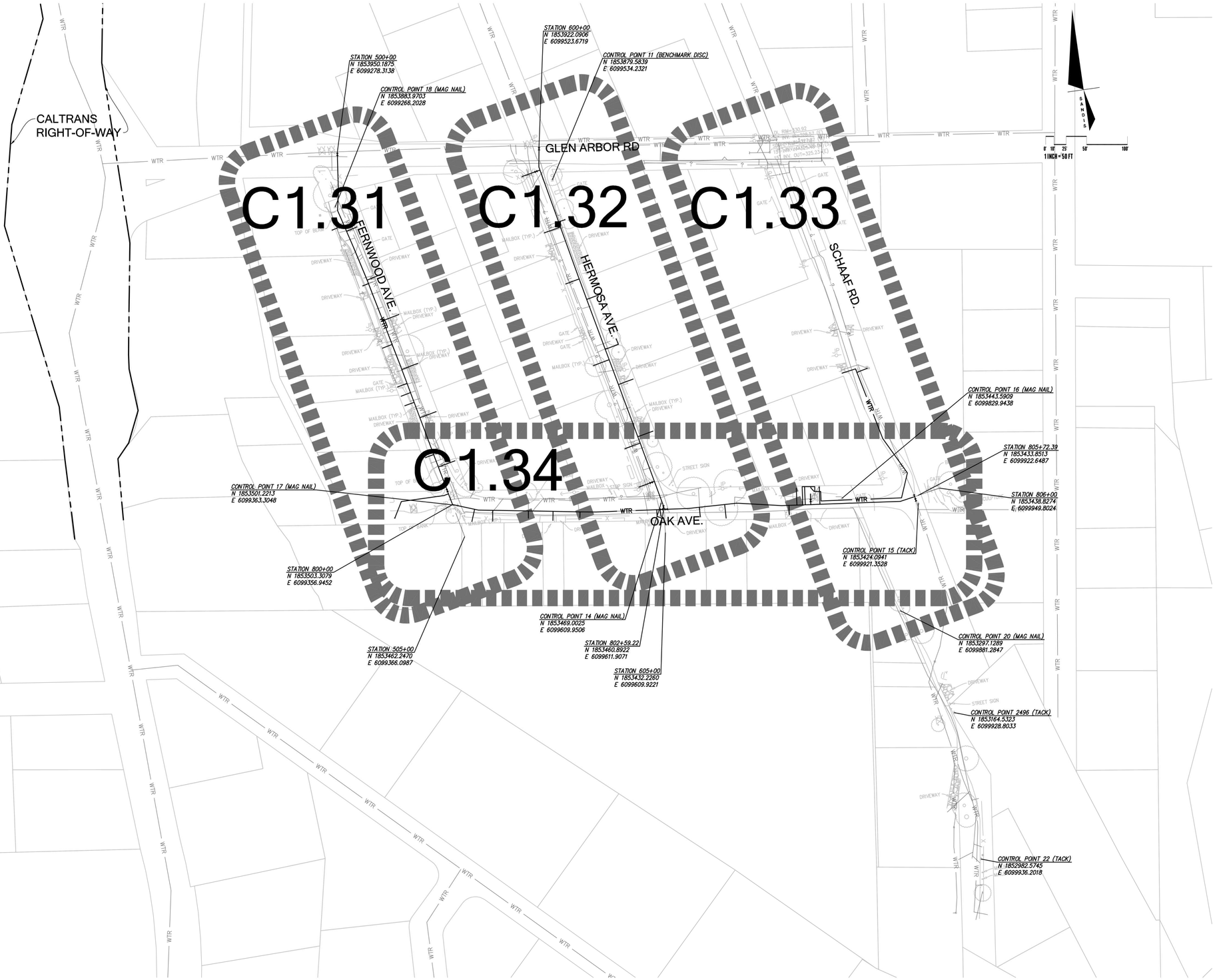
MATERIAL QUANTITIES

QUANTITY	UNIT	MATERIAL
150	LF	8 INCH DIP PIPE
64	LF	6 INCH DIP PIPE
1	LF	2 INCH HDPE PIPE
1028	LF	1 INCH HDPE PIPE
1	EA	2 INCH TAPPING SADDLE
32	EA	1 INCH TAPPING SADDLE
5	EA	8 INCH GATE VALVE
2	EA	8x6 INCH REDUCER
1	EA	6 INCH STEAMER HYDRANT ASSEMBLY
32	EA	SERVICE RECONNECTIONS*
2	EA	CONNECTION TO EXISTING MAIN
2	EA	NEW WATER METER



RIGHT-OF-WAY NOTE

WORK WITHIN GLEN ARBOR ROAD, AND HERMOSA AVENUE IS WITHIN THE SANTA CRUZ COUNTY RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST SANTA CRUZ COUNTY STANDARD PLANS AND SPECIFICATIONS. WORK WITHIN FERNWOOD AVENUE, SCHAAF ROAD, AND OAK AVENUE IS WITHIN THE COUNTY OF SANTA CRUZ RIGHT-OF-WAY AND SHALL BE CONSTRUCTED PER THE LATEST COUNTY OF SANTA CRUZ STANDARD PLANS AND SPECIFICATIONS. CONTRACTOR TO OBTAIN NECESSARY ENCROACHMENT PERMITS FOR ANY WORK ACTIVITIES OR CONSTRUCTION OCCURRING WITHIN THE ASSOCIATED RIGHT-OF-WAY.

HORIZONTAL AND VERTICAL CONTROL NOTE

HORIZONTAL AND VERTICAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK. TIED INTO CALIFORNIA STATE PLANE COORDINATES NAD83 AND NAVD 88, EPOCH 2020.250.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANCHEZ III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY LAYOUT KEY MAP - HERMOSA AVE

SHEET C1.30

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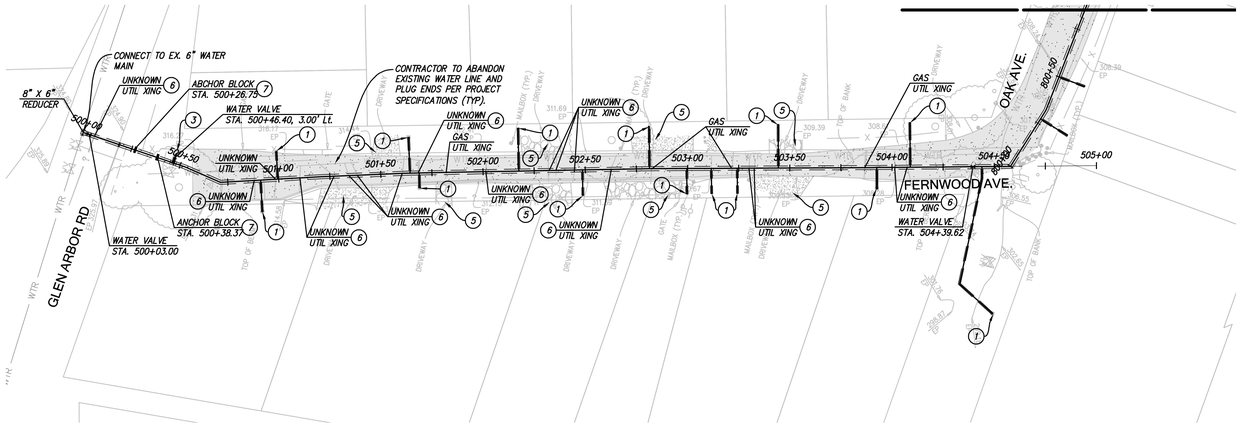
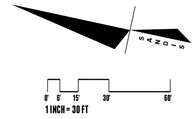
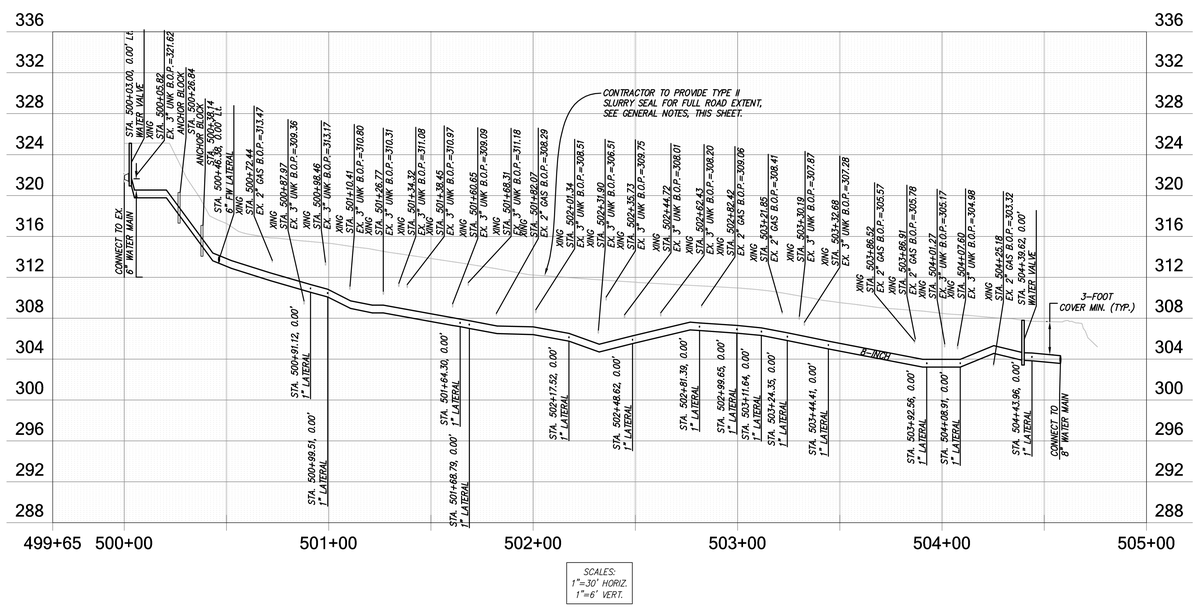
CONTINUATION - SEE SHEET C1.33







SCALES:
1"=30' HORIZ.
1"=6' VERT.

LEGEND

- LIMIT OF TRENCH — EP–1 / C2.01
- 2" AC OVERLAY — 4 / C2.00
- SLURRY SEAL
- REPLACE WITH CLASS II AGGREGATE BASE
- REPLACE LANDSCAPE IN–KIND OR BETTER
- WV — PROPOSED WATER VALVE — SD–1 / C2.00

SHEET NOTES

1. NEW 1" SERVICE LATERALS UP TO EXISTING WATER METERS PER SD–4, SHEET C2.00, AND RECONNECT SERVICE.
2. CONTRACTOR TO RESTORE EXISTING SPEEDBUMPS IN KIND.
3. EXISTING FIRE HYDRANT TO BE CONNECTED TO NEW WATER LATERAL.
4. NEW 2–INCH AIR RELEASE VALVE PER DETAIL SD–7, SHEET C2.0.
5. EXISTING DRIVEWAY TO BE PROTECTED IN PLACE.
6. CAUTION!! UNKNOWN UTILITY CROSSING. CONTRACTOR TO POTHOLE TO DETERMINE UTILITY SIZE AND TYPE
7. NEW PIPE ANCHOR PER DETAIL 2, SHEET C2.01
8. NEW FIRE HYDRANT, PER DETAIL SD–3, SHEET C2.00.
9. EXISTING HYDRANT TO BE REMOVED.
10. INSTALL HOPE SLEEVE BELOW SD CROSSING. SEE DETAIL SD–9, SHEET C2.00.

GENERAL NOTES:

1. SEE SHEET C–0.02 FOR CONSTRUCTION NOTES AND LEGENDS.
2. CONTRACTOR TO PROVIDE 2" OVERLAY (FOR FULL ROAD EXTENT) ON ALL COUNTY OWNED ROADS THAT ARE IMPACTED BY TRENCHING WORKS.
3. CONTRACTOR TO PROVIDE TYPE II SLURRY SEAL (FOR FULL ROAD EXTENT) ON ALL PRIVATE OWNED ROW.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - FERNWOOD AVE

SHEET C1.31

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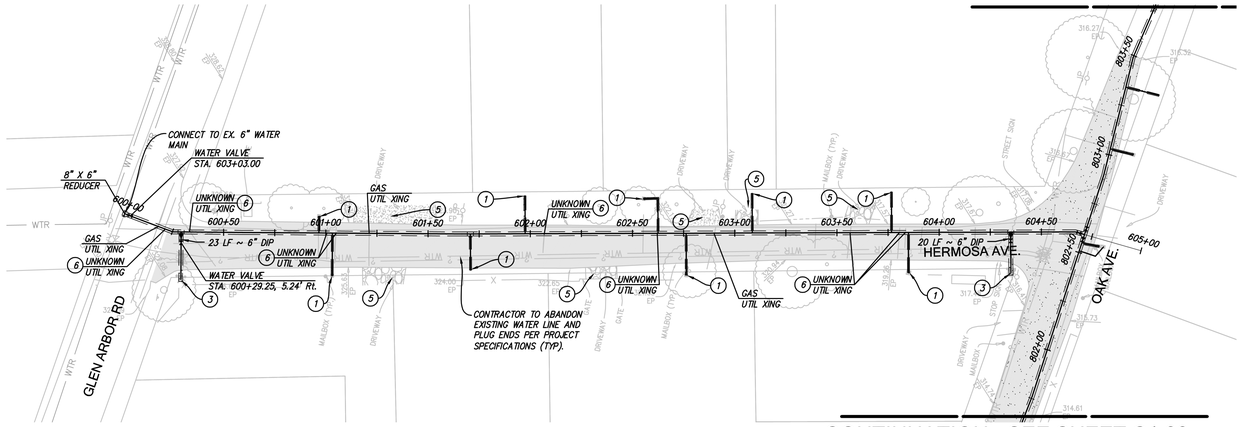
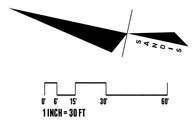
GENERAL NOTES:

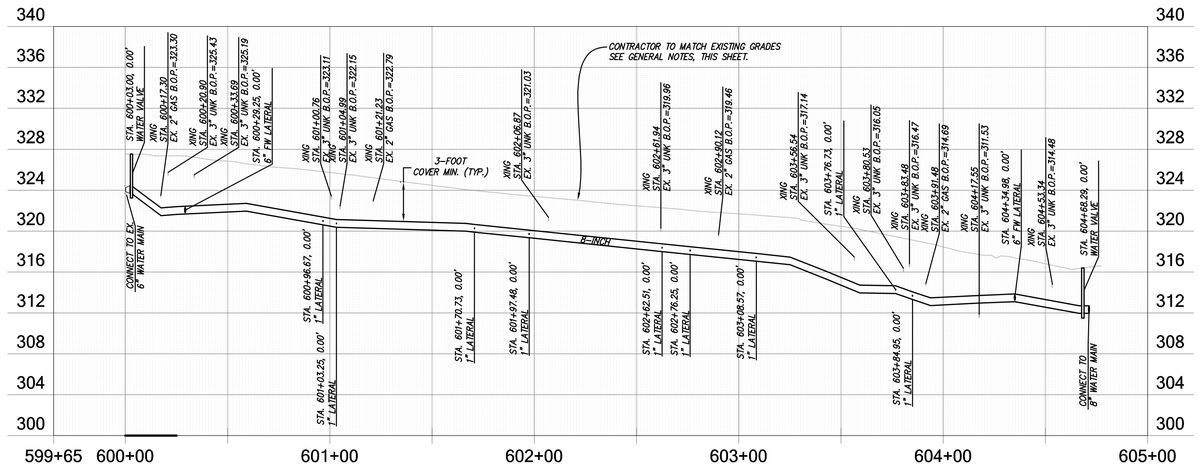
1. SEE SHEET C1.31 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.

CONTINUATION - SEE SHEET C1.33



CONTINUATION - SEE SHEET C1.33





SCALES:
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1"=6' VERT.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - HERMOSA AVE

SHEET C1.32

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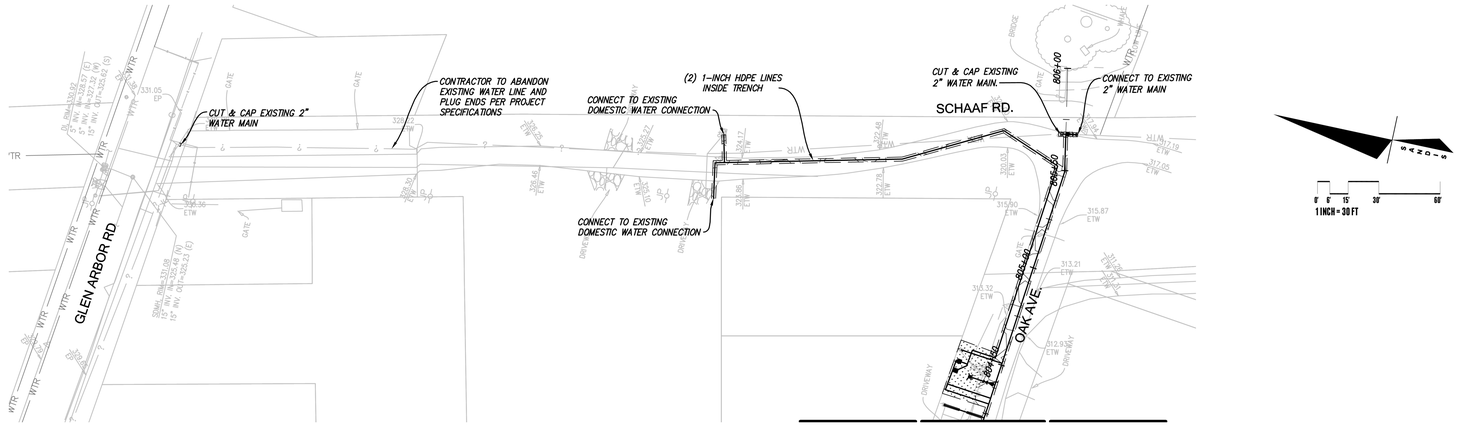

CONTINUATION - SEE SHEET C1.34

GENERAL NOTES:

1. SEE SHEET C1.31 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANZOTTA No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE -SCHAAF ROAD

SHEET C1.33

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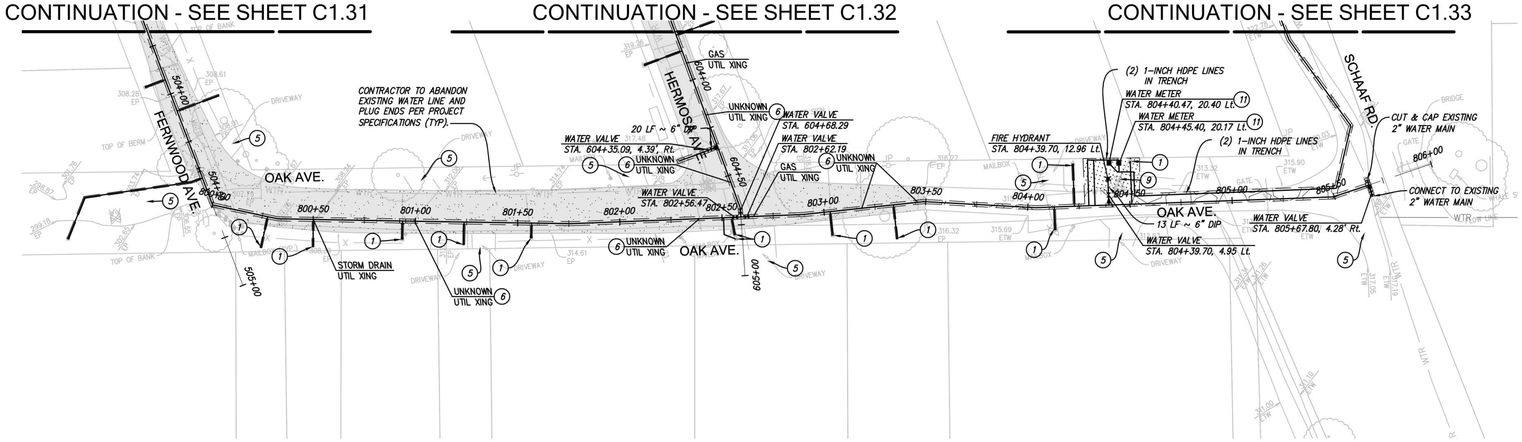
CONTINUATION - SEE SHEET C1.31

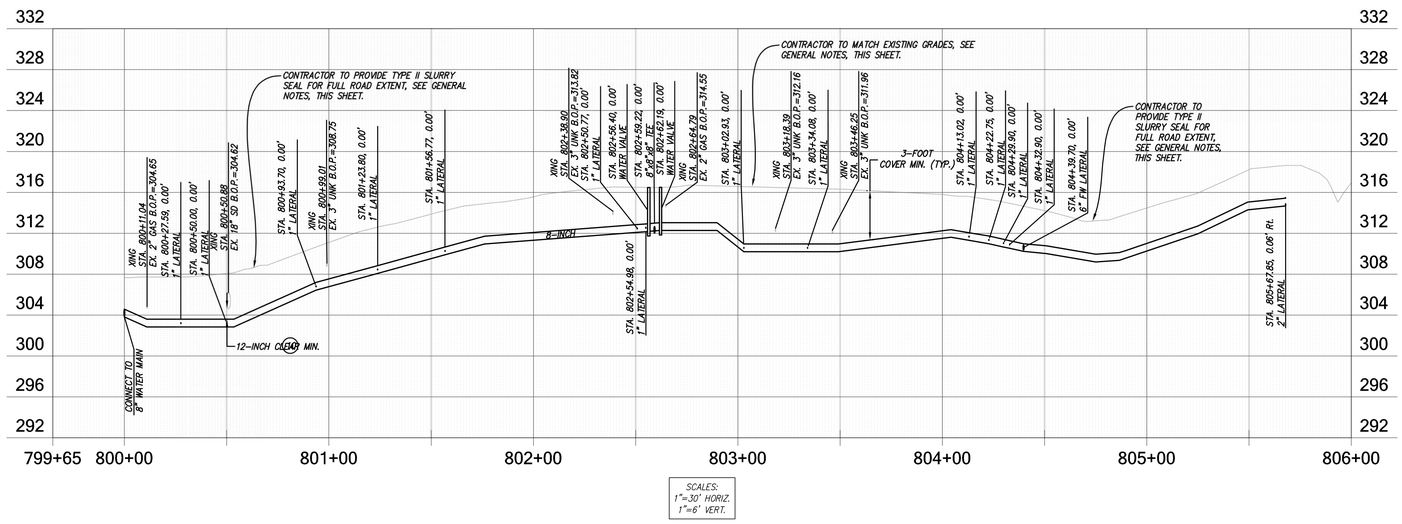
CONTINUATION - SEE SHEET C1.32

CONTINUATION - SEE SHEET C1.33



GENERAL NOTES:

1. SEE SHEET C1.31 FOR GENERAL NOTES, LEGEND, AND SHEET NOTES.



SCALES:
1"=30' HORIZ.
1"=6' VERT.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=30'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

UTILITY PLAN & PROFILE - OAK AVE

SHEET C1.34

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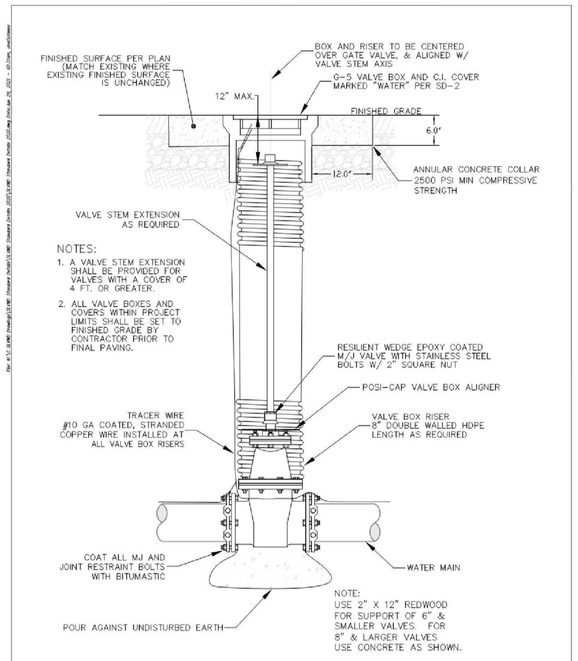

San Lorenzo Valley WATER DISTRICT

DATE	6/23/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
GATE VALVE INSTALLATION

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-1

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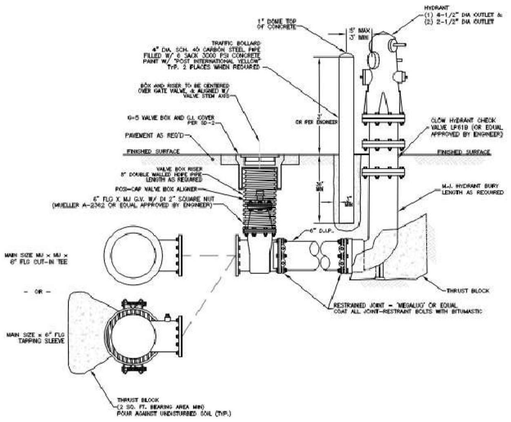
CONNECTION NOTES:
1. TEE SHALL MATCH PIPELINE MATERIAL AND PRESSURE CLASS.
2. TAPPING SLEEVE FOR DUCTILE IRON MAINS SHALL BE JCM 412 EPOXY COATED CARBON STEEL WITH ELECTROPLATED HARDWARE.
3. TAPPING SLEEVE FOR HDPE (IPS SIZES), WELDED STEEL, AND PVC MAINS SHALL BE JCM 432 EPOXY COATED CARBON STEEL WITH ELECTROPLATED HARDWARE.
4. DISTRICT INSPECTOR SHALL BE ON SITE DURING HOT TAP
5. SUBSTITUTIONS REQUIRE WRITTEN APPROVAL OF DISTRICT ENGINEER

HYDRANT NOTES:
1. STEAMER HYDRANTS SHALL BE CLOW F3100 SERIES MODEL 960 (FACTORY COATED YELLOW) OR EQUAL APPROVED BY ENGINEER (PAINTED CHROME YELLOW ON SITE).
2. FIRE HYDRANT SHALL BE FURNISHED WITH BRONZE WITH INLETS THAT MAY BE MECH. JOINT OR RUBBER RING TYPE. HYDRANT SHALL HAVE HOSE CAP CHAINS. ALL HYDRANTS SHALL HAVE (1) 4-1/2" DIA. & (2) 2-1/2" DIA NATIONAL STANDARD HOSE THREAD OUTLETS.
3. FIRE HYDRANT SHALL BE COVERED WITH BURLAP SACK UNTIL HYDRANT IS PUT INTO SERVICE.
4. HYDRANTS INSTALLED WITHIN CALTRANS RIGHT-OF-WAY SHALL HAVE BOLLARDS CONFORMING TO CALTRANS STANDARD DRAWINGS AND SPECIFICATIONS, LATEST EDITION.

MARKING NOTES:
1. PAINT CURB RED FOR 20' CENTERED ON HYDRANT
2. IF NO CURB, PROVIDE METAL SIGN BEHIND HYDRANT VISIBLE FROM STREET, "NO PARKING, FIRE HYDRANT", SIGN TO BE MIN 12" WIDE 18" HIGH. PROVIDE RED LETTERS 2" HIGH ON REFLECTIVE WHITE BACKGROUND. BASE OF SIGN TO BE 7' ABOVE GRADE. POST SHALL BE GALVANIZED OR STAINLESS STEEL, SECURELY INSTALLED. MOUNT SIGN WITH MIN. 2 BOLTS.



San Lorenzo Valley WATER DISTRICT

DATE	7/26/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
6" STEAMER FIRE HYDRANT

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-3

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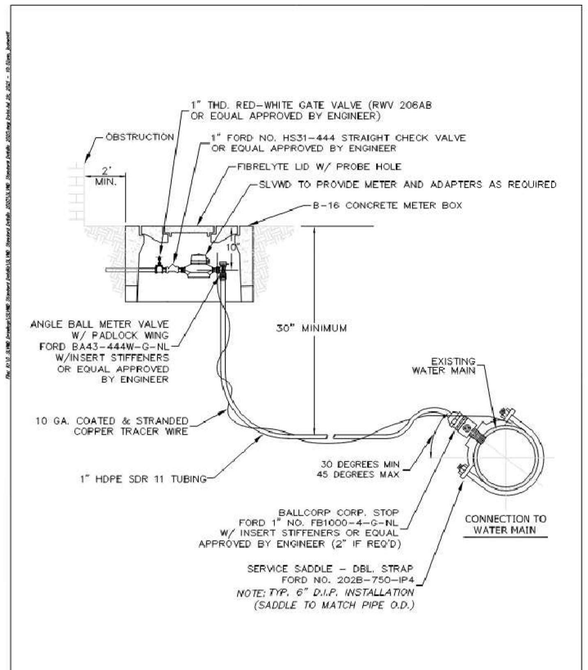

San Lorenzo Valley WATER DISTRICT

DATE	7/26/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
WATER SERVICE INSTALLATION 1" METERS

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-4

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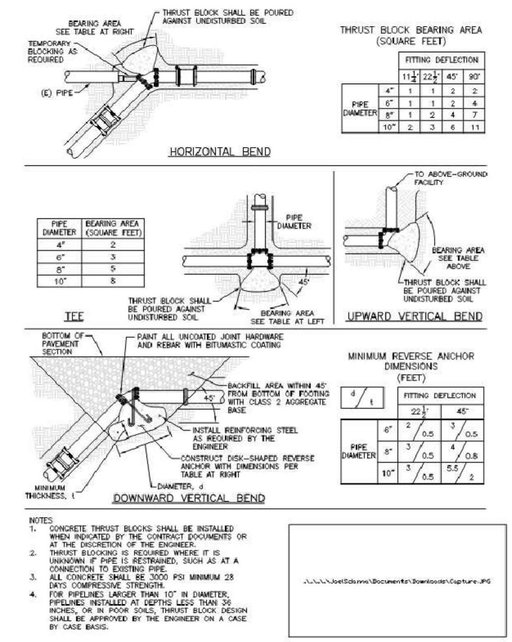

THRUST BLOCK BEARING AREA (SQUARE FEET)

		FITTING DEFLECTION			
		11 1/4°	22 1/2°	45°	90°
PIPE DIAMETER	4"	1	1	2	2
	6"	1	1	2	4
	8"	1	2	4	7
	10"	2	3	6	11

PIPE DIAMETER	BEARING AREA (SQUARE FEET)
4"	2
6"	3
8"	5
10"	8

MINIMUM REVERSE ANCHOR DIMENSIONS (FEET)

d / t	FITTING DEFLECTION	
	22 1/2°	45°
PIPE DIAMETER 6"	2 / 0.5	3 / 0.5
PIPE DIAMETER 8"	3 / 0.5	4 / 0.8
PIPE DIAMETER 10"	3 / 0.5	5.5 / 2

NOTES
1. CONCRETE THRUST BLOCKS SHALL BE INSTALLED WHEN INDICATED BY THE CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER.
2. THRUST BLOCKING IS REQUIRED WHERE IT IS UNKNOWN IF PIPE IS RESTRAINED, SUCH AS AT A CONNECTION TO EXISTING PIPE.
3. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
4. FOR PIPELINES LARGER THAN 10" IN DIAMETER, PIPELINES INSTALLED AT DEPTHS LESS THAN 36 INCHES, OR IN POOR SOILS, THRUST BLOCK DESIGN SHALL BE APPROVED BY THE ENGINEER ON A CASE BY CASE BASIS.

San Lorenzo Valley WATER DISTRICT

DATE	7/26/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
THRUST BLOCK INSTALLATION

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-8

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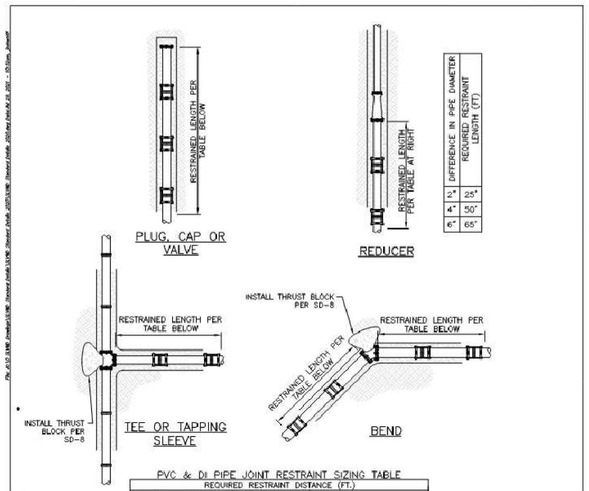

DIFFERENCE IN PIPE DIAMETER	REQUIRED RESTRAINT LENGTH (FT)
4"	25'
6"	50'
8"	65'

PVC & DI PIPE JOINT RESTRAINT SIZING TABLE

REQUIRED RESTRAINT DISTANCE (FT.)								
			VERTICAL BEND			HORIZONTAL BEND		
PIPE DIA.	TEE BRANCH	PLUG, "CAP" OR VALVE	11 1/4°	22 1/2°	45°	11 1/4°	22 1/2°	45°	90°
4	20	35	5	10	15	5	5	10	15
6	20	45	5	10	20	5	5	10	20
8	20	60	10	15	25	5	10	15	30
10	20	75	10	15	30	5	10	15	35

NOTES
1. ALL UNCOATED JOINT RESTRAINT AND FITTING HARDWARE SHALL BE COATED WITH BITUMASTIC.
2. THRUST BLOCKING PER SD-8 IS REQUIRED.
3. RESTRAINED LENGTHS FOR PIPES LARGER THAN 10 INCHES IN DIAMETER SHALL BE DESIGNED BY THE ENGINEER.
4. SERVICE LATERALS SHALL BE FULLY RESTRAINED.

San Lorenzo Valley WATER DISTRICT

DATE	9/26/2022
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
JOINT RESTRAINT INSTALLATION

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-13

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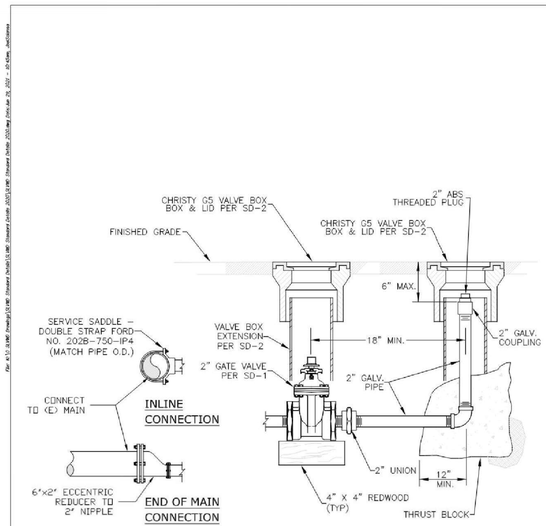

San Lorenzo Valley WATER DISTRICT

DATE	6/23/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
2" BLOW OFF

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-6

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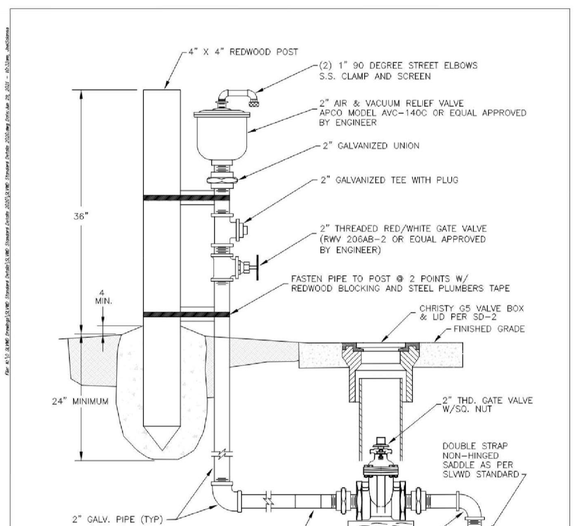

NOTES:
1) WRAP UG GALV. PIPE WITH CALPICO TAPE.
2) CONTACT INSPECTOR FOR EXACT PLACEMENT OF AIR VENT
3) ABOVE GROUND PIPE & VALVES SHALL BE PAINTED WITH TWO COATS OF GREEN PAINT

San Lorenzo Valley WATER DISTRICT

DATE	6/23/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
2" AIR/VAC RELEASE

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-7

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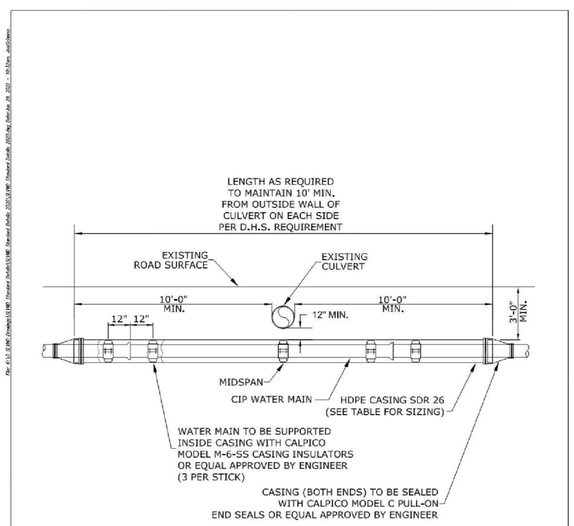

MAIN SIZE	SLEEVE SIZE
4"	10"
6"	12"
8"	14"
10"	16"
12"	18"
14"	20"

DUCTILE IRON PIPE NOTE:
FOR 8" DI WATER MAINS, A 16" HPDE SDR 13.5 CASING SHALL BE INSTALLED"

San Lorenzo Valley WATER DISTRICT

DATE	6/09/2021
CAD	NTS
DRAWN BY	JWC
APPROVED BY	A.W
	STD DWG

STANDARD
WATER MAIN CASING

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

SHEET
SD-9

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: N.T.S.
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANTINI III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

SLVWD STANDARD DETAILS

SHEET
C2.00

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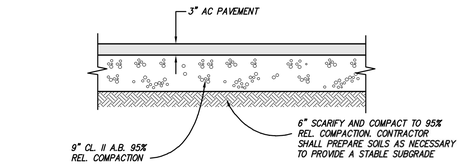
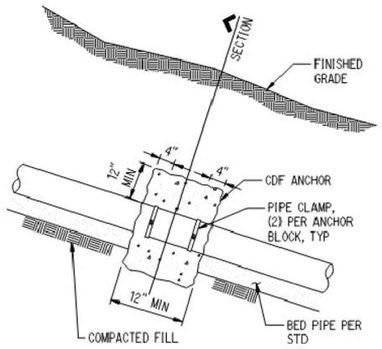
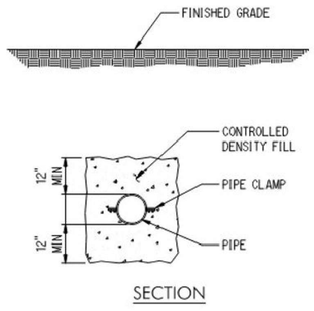


NOTE: PAVEMENT SECTION HAS BEEN BASED ON COUNTY OF SANTA CRUZ SPECIFICATIONS

ASPHALT PAVEMENT SECTION 1
N.T.S.



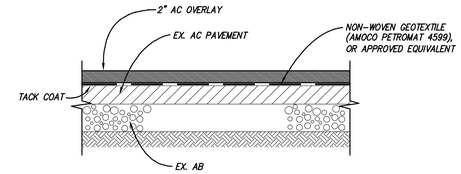


SECTION

NOTES:

1. PROVIDE ONE ANCHOR PER PIPE LENGTH, MINIMUM.
2. CDF BLOCKS PLACED OVER AND AROUND PIPE. TAMPED INTO PLACE BEFORE BACKFILLING.
3. PLACE TWO PIPE CLAMPS, 4" FROM BLOCK ENDS TO PROVIDE ANCHORAGE TO CDF.
4. DO NOT LOCATE ANCHORS AT PIPE JOINTS.
5. PLACE ANCHORS ON PIPES WITH SLOPES 20 PERCENT OR GREATER.

PIPE ANCHOR DETAIL 2
N.T.S.

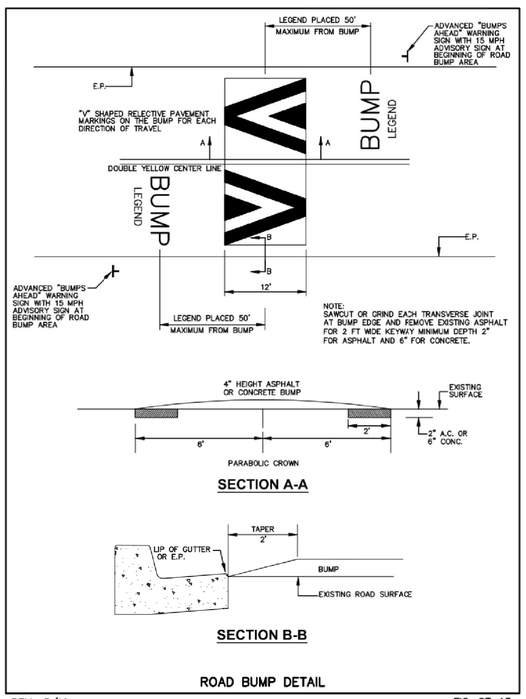


NOTES:

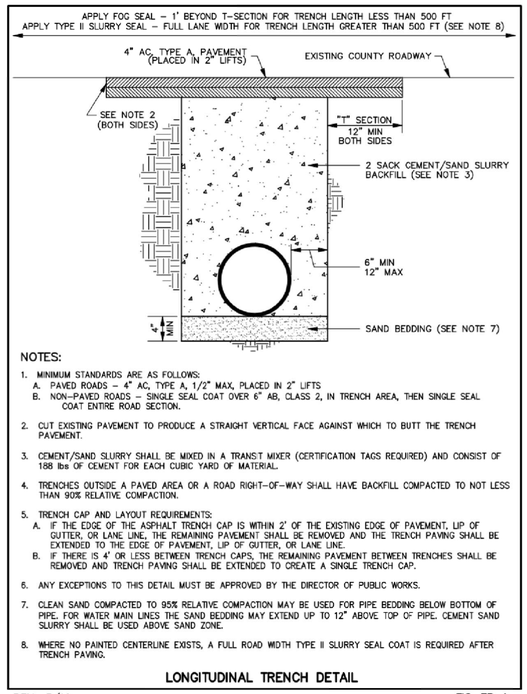
A. SWEEP SURFACE CLEAN OF DEBRIS AND FILL CRACKS 1/4" AND LARGER WITH LIQUID ASPHALT.

B. CONTRACTOR TO PROVIDE 2" AC OVERLAY ON ALL COUNTY OWNED ROADS PER AGREEMENT WITH SLVWD AND SANTA CRUZ COUNTY. 2" AC OVERLAY TO BE INSTALLED PER COUNTY OF SANTA CRUZ SPECIFICATIONS FOR MINOR ROADS.

2"AC OVERLAY DETAIL 3
N.T.S.



SPEED BUMP DETAIL (SANTA CRUZ COUNTY STD. DETAIL, EP-1) 4



NOTES:

1. MINIMUM STANDARDS ARE AS FOLLOWS:
   A. PAVED ROADS – 4" AC, TYPE A, 1/2" MAX, PLACED IN 2" LIFTS
   B. NON-PAVED ROADS – SINGLE SEAL COAT OVER 6" AB, CLASS 2, IN TRENCH AREA, THEN SINGLE SEAL COAT ENTIRE ROAD SECTION.
2. CUT EXISTING PAVEMENT TO PRODUCE A STRAIGHT VERTICAL FACE AGAINST WHICH TO BUTT THE TRENCH PAVEMENT.
3. CEMENT/SAND SLURRY SHALL BE MIXED IN A TRANSIT MIXER (CERTIFICATION TAGS REQUIRED) AND CONSIST OF 188 lbs OF CEMENT FOR EACH CUBIC YARD OF MATERIAL.
4. TRENCHES OUTSIDE A PAVED AREA OR A ROAD RIGHT-OF-WAY SHALL HAVE BACKFILL COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION.
5. TRENCH CAP AND LAYOUT REQUIREMENTS:
   A. IF THE EDGE OF THE ASPHALT TRENCH CAP IS WITHIN 2' OF THE EXISTING EDGE OF PAVEMENT, LIP OF GUTTER, OR LANE LINE, THE REMAINING PAVEMENT SHALL BE REMOVED AND THE TRENCH PAVING SHALL BE EXTENDED TO THE EDGE OF PAVEMENT, LIP OF GUTTER, OR LANE LINE.
   B. IF THERE IS 4' OR LESS BETWEEN TRENCH CAPS, THE REMAINING PAVEMENT BETWEEN TRENCHES SHALL BE REMOVED AND TRENCH PAVING SHALL BE EXTENDED TO CREATE A SINGLE TRENCH CAP.
6. ANY EXCEPTIONS TO THIS DETAIL MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
7. CLEAN SAND COMPACTED TO 95% RELATIVE COMPACTION MAY BE USED FOR PIPE BEDDING BELOW BOTTOM OF PIPE. FOR WATER MAIN LINES THE SAND BEDDING MAY EXTEND UP TO 12" ABOVE TOP OF PIPE. CEMENT SAND SLURRY SHALL BE USED ABOVE SAND ZONE.
8. WHERE NO PAINTED CENTERLINE EXISTS, A FULL ROAD WIDTH TYPE II SLURRY SEAL COAT IS REQUIRED AFTER TRENCH PAVING.

LONGITUDINAL TRENCH DETAIL

REV 5/19

FIG. EP-1

UTILITY TRENCH DETAIL (SANTA CRUZ COUNTY STD. DETAIL, EP-1) 5

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: N.T.S.
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

CONSTRUCTION DETAILS

SHEET C2.01

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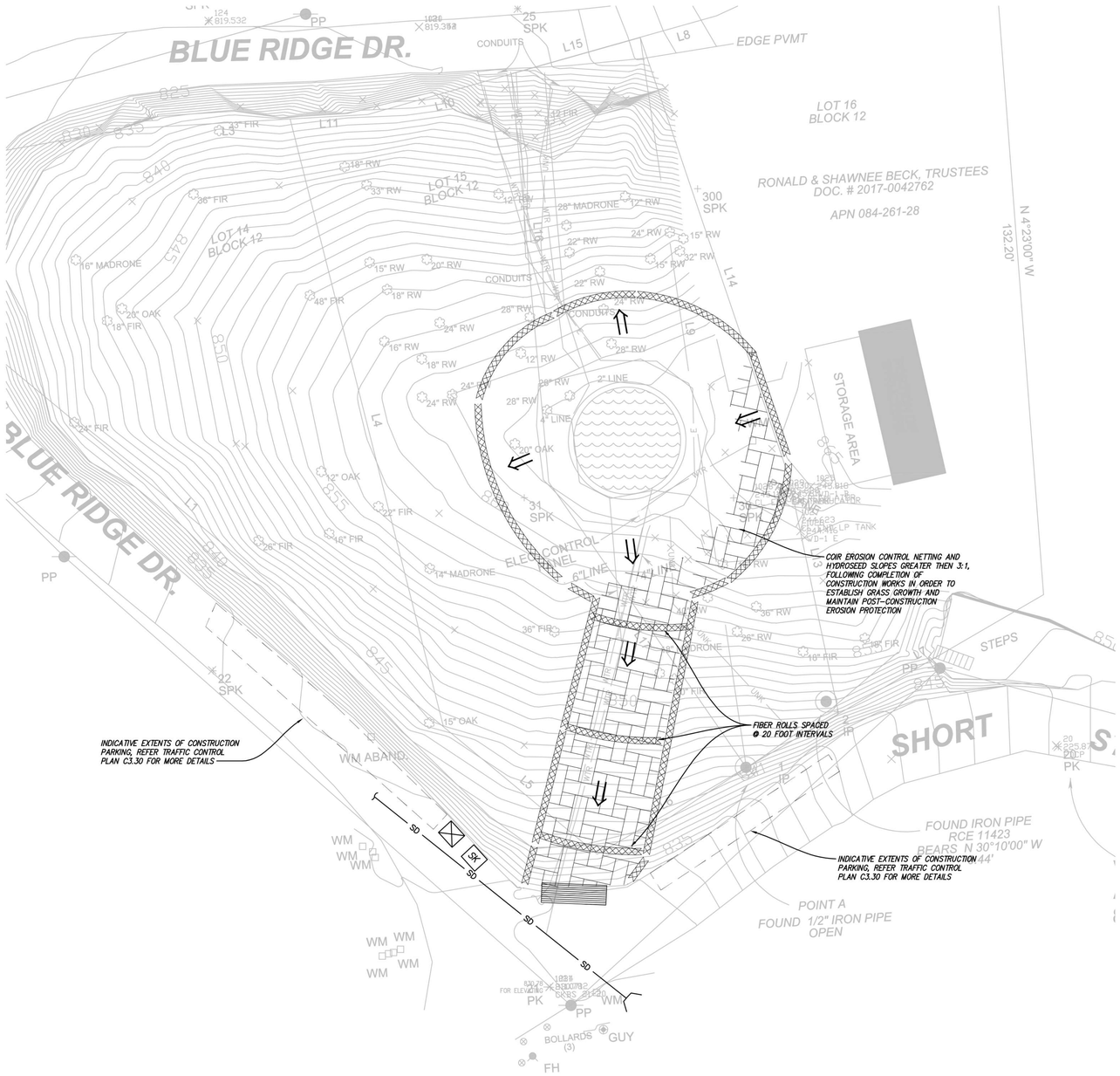

BLUE RIDGE DRIVE TANK REPLACEMENT – EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1:10

LEGEND

- STABILIZED EXIT (RUMBLE STRIPS)
- SK — SPILL KIT (TBD IN FIELD)
- PORTABLE RESTROOM (TBD IN FIELD)
- CONSTRUCTION TRAILER — CONSTRUCTION TRAILER (TBD IN FIELD)
- PATH OF SURFACE DRAINAGE
- FIBER ROLL
- INLET PROTECTION
- APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE
- EROSION CONTROL BLANKET OR COIR EROSION CONTROL NETTING AND HYDROSEED (TO BE INSTALLED ONCE WORKS CONSTRUCTION WORKS ARE COMPLETED)

WATER POLLUTION CONTROL NOTES:

1. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
2. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL..
3. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
4. CONTRACTOR TO INSTALL RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
5. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
6. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
7. STREET SWEEPING SHALL BE CHECKED DAILY TO REMOVE SEDIMENT TRACK-OUT AND DEBRIS FROM STREET DAILY. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
8. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=5'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

EROSION AND SEDIMENT CONTROL PLAN

SHEET C2.10

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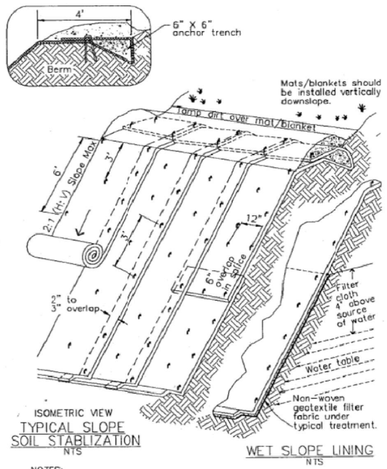
Figure EC-1 Erosion Control Blankets

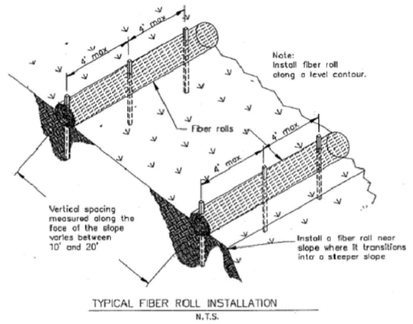


NOTES:

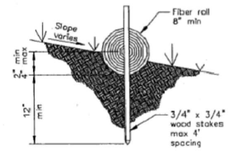
1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

Figure SC-1 Fiber Rolls



TYPICAL FIBER ROLL INSTALLATION
N.T.S.



ENTRENCHMENT DETAIL
N.T.S.

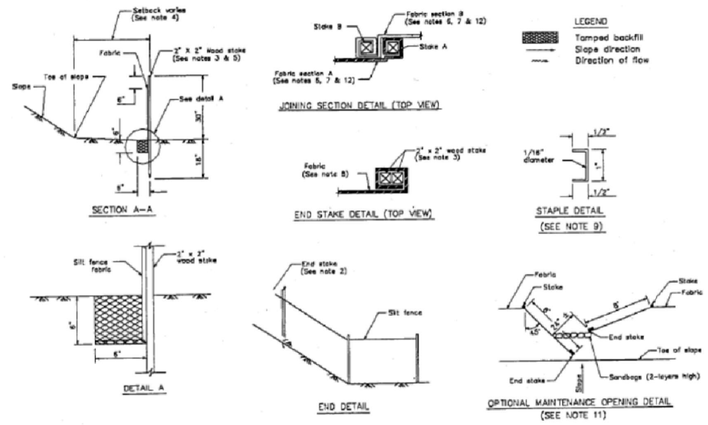
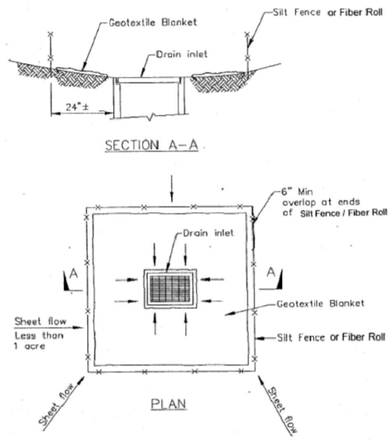


Figure SC-2 Silt Fence

Figure SC-3 Storm Drain Inlet Protection

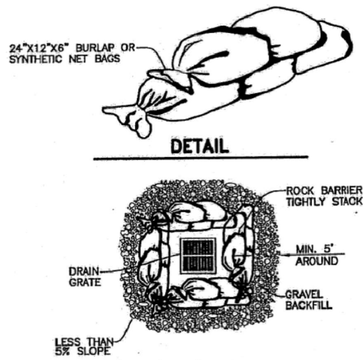


DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:

1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.

Figure SC-4 Storm Drain Inlet Protection



NOTES:

1. FILL ROCK BARRIER BAGS ⅔ FULL OF ¾" ROCK.
2. PLACE BAGS SUCH THAT NO GAPS ARE EVIDENT IN A SINGLE OR DOUBLE LAYER. STAMP ENTIRE LAYER INTO PLACE PRIOR TO STARTING THE NEXT LAYER.
3. ROCK BARRIER BAGS FOR CATCH BASIN SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE:
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND GRATZ No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

EROSION AND SEDIMENT CONTROL DETAIL

SHEET C2.11

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SANDIS

0' 300' 750' 1500' 3000'
1 INCH = 1500 FT

C3.30

C3.10-C3.14

C3.20-C3.22

C3.40

C3.50-C3.57

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=1500'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER
RONALD EDMUND SANDIS III
No. 79305
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - KEY MAP

SHEET
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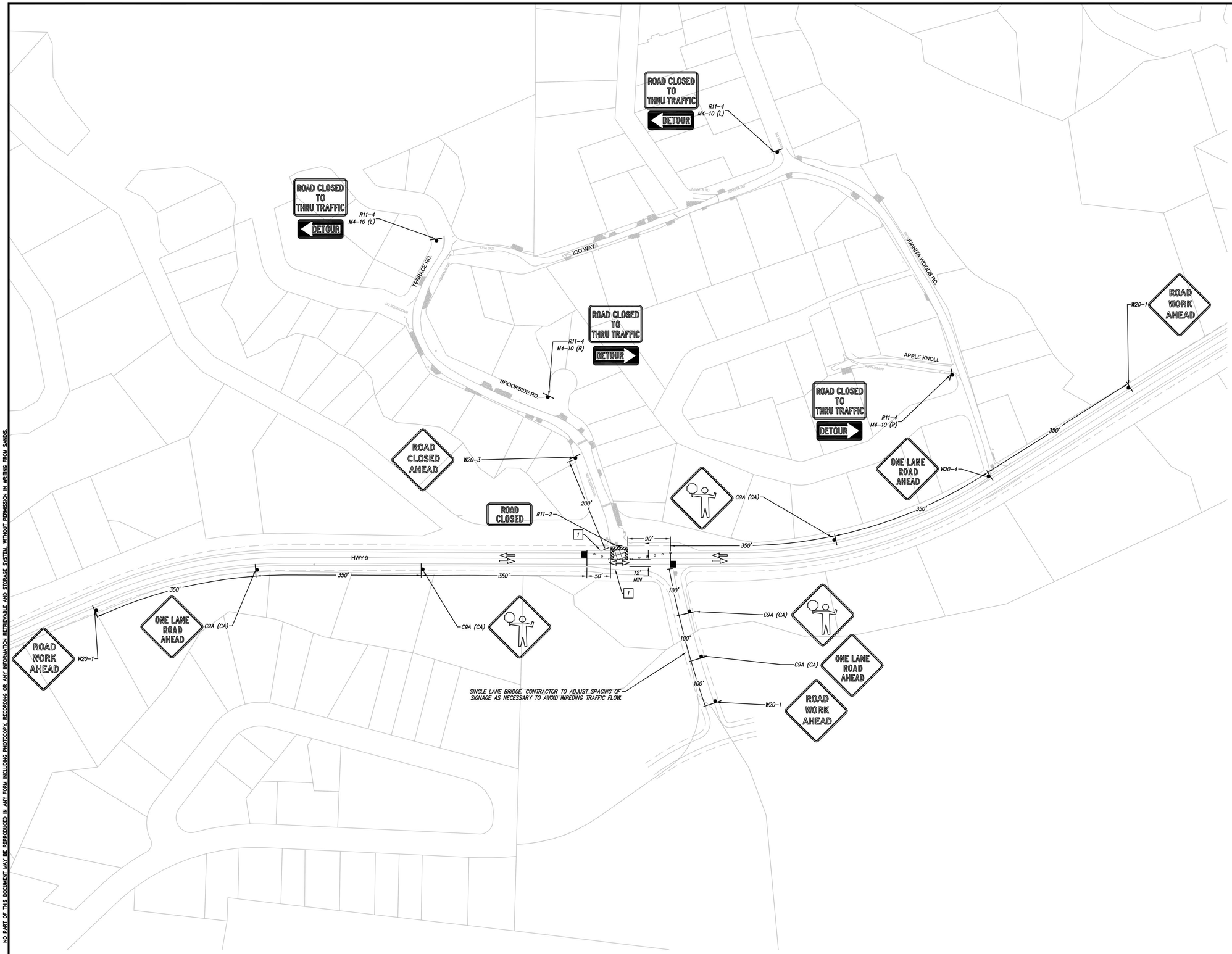

0' 16' 40' 80' 160'
1 INCH = 80 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1. CONTRACTOR TO COORDINATE WITH SANTA CRUZ METRO TRANSIT DISTRICT (SCMTD) TO DETERMINE WHETHER ANY TEMPORARY MODIFICATIONS TO SERVICE ARE NEEDED WHILE THIS TRAFFIC CONTROL PLAN IS BEING IMPLEMENTED.

• FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=80'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - HWY 9

SHEET C3.10

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* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

SCALE: 1" = 80'

0' 16' 40' 80' 160'
1 INCH = 80 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1 CONTRACTOR TO COORDINATE WITH SANTA CRUZ METRO TRANSIT DISTRICT (SCMTD) TO DETERMINE WHETHER ANY TEMPORARY MODIFICATIONS TO SERVICE ARE NEEDED WHILE THIS TRAFFIC CONTROL PLAN IS BEING IMPLEMENTED.

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=80'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - HWY 9

SHEET C3.11

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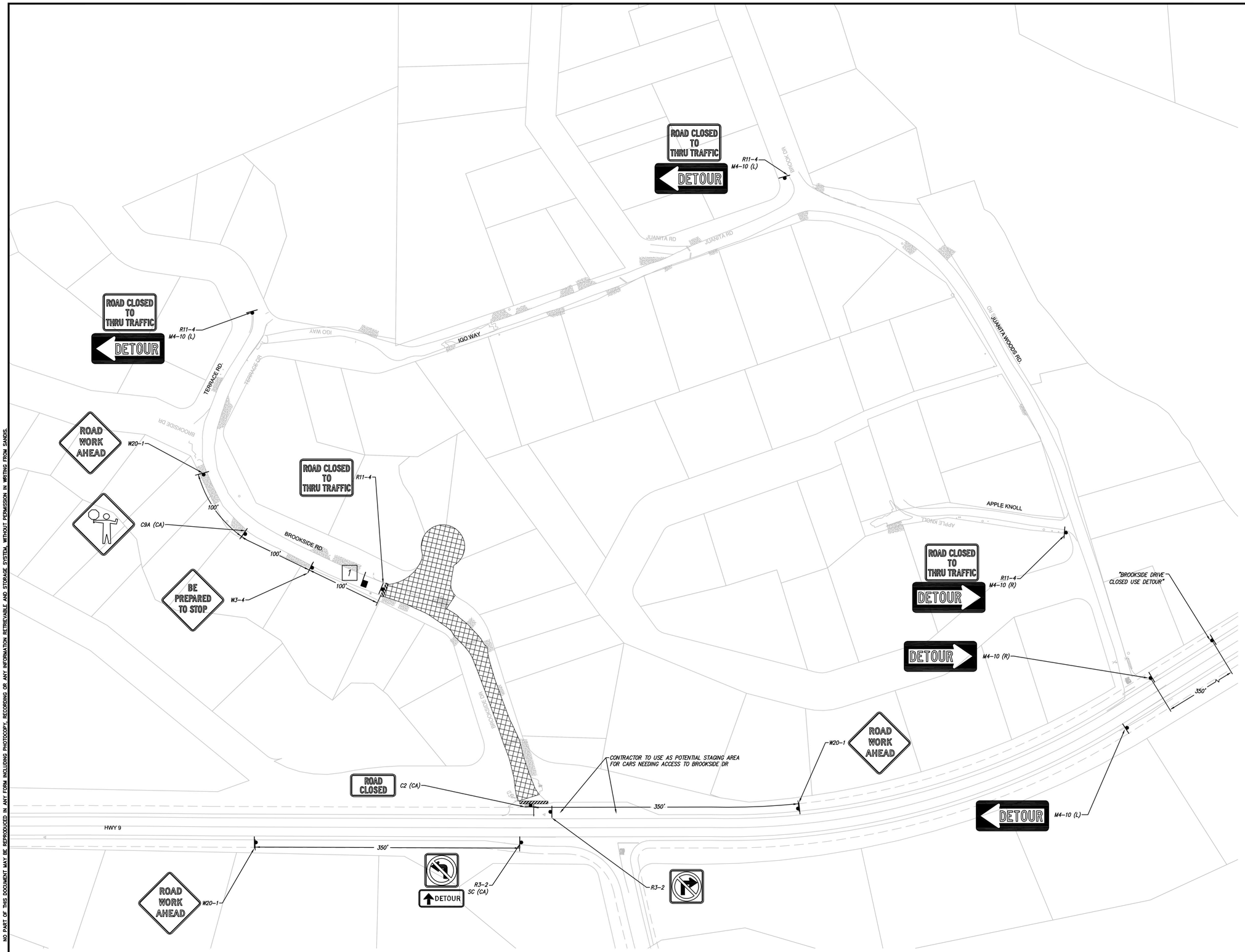

SCALE: 1 INCH = 50 FT

0' 10' 25' 50' 100'

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1 FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.

* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - BROOKESIDE DRIVE

SHEET C3.12

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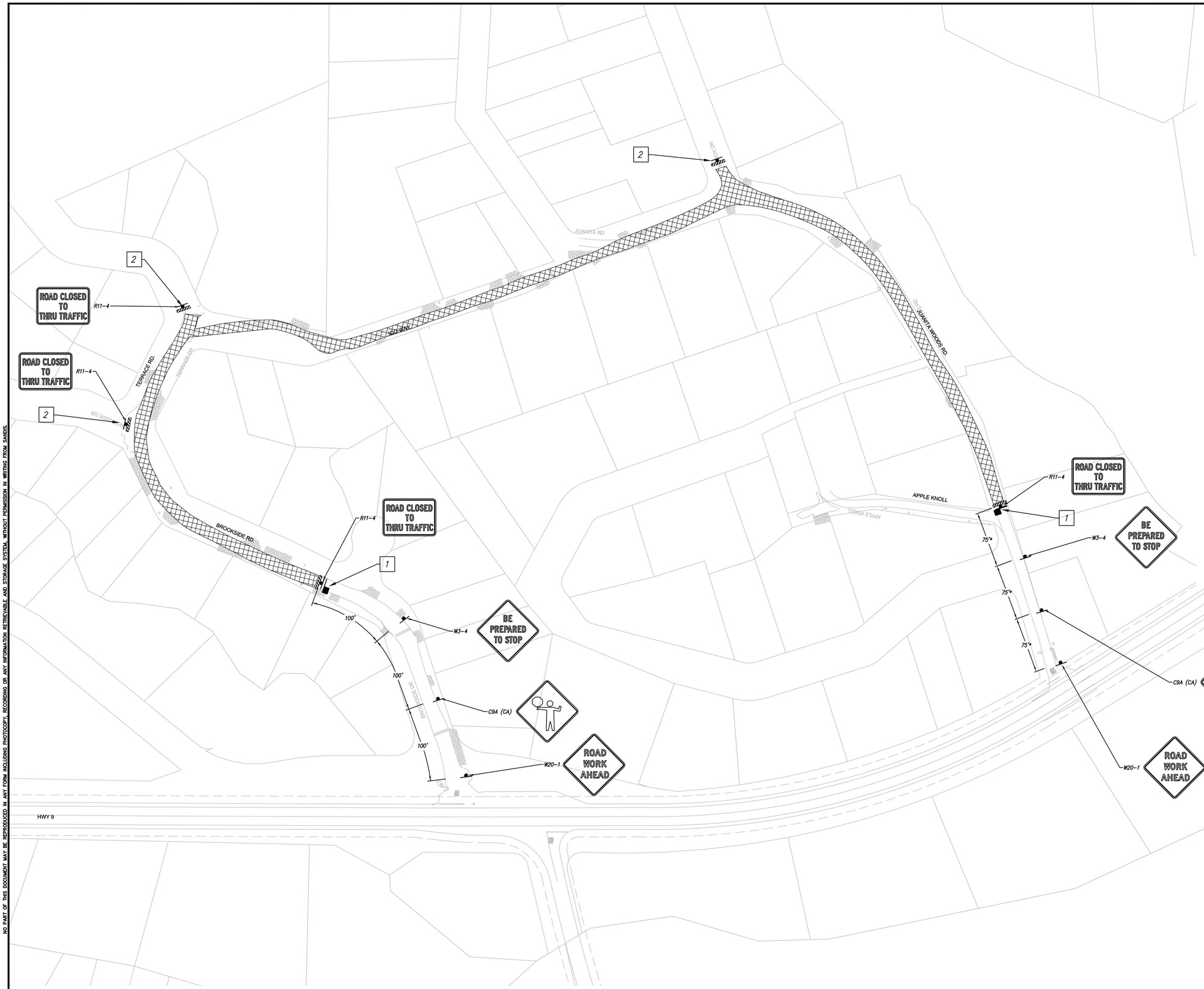

0' 10' 25' 50' 100'
1 INCH = 50 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1. FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.
2. FLAGGER AND NECESSARY SIGNAGE TO BE PRESENT AT THIS LOCATION ONLY WHEN WORK ACTIVELY OBSTRUCTS THROUGH TRAVEL/VEHICLE EGRESS ALONG THIS ROADWAY.

* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - JUANITA ROAD

SHEET C3.13

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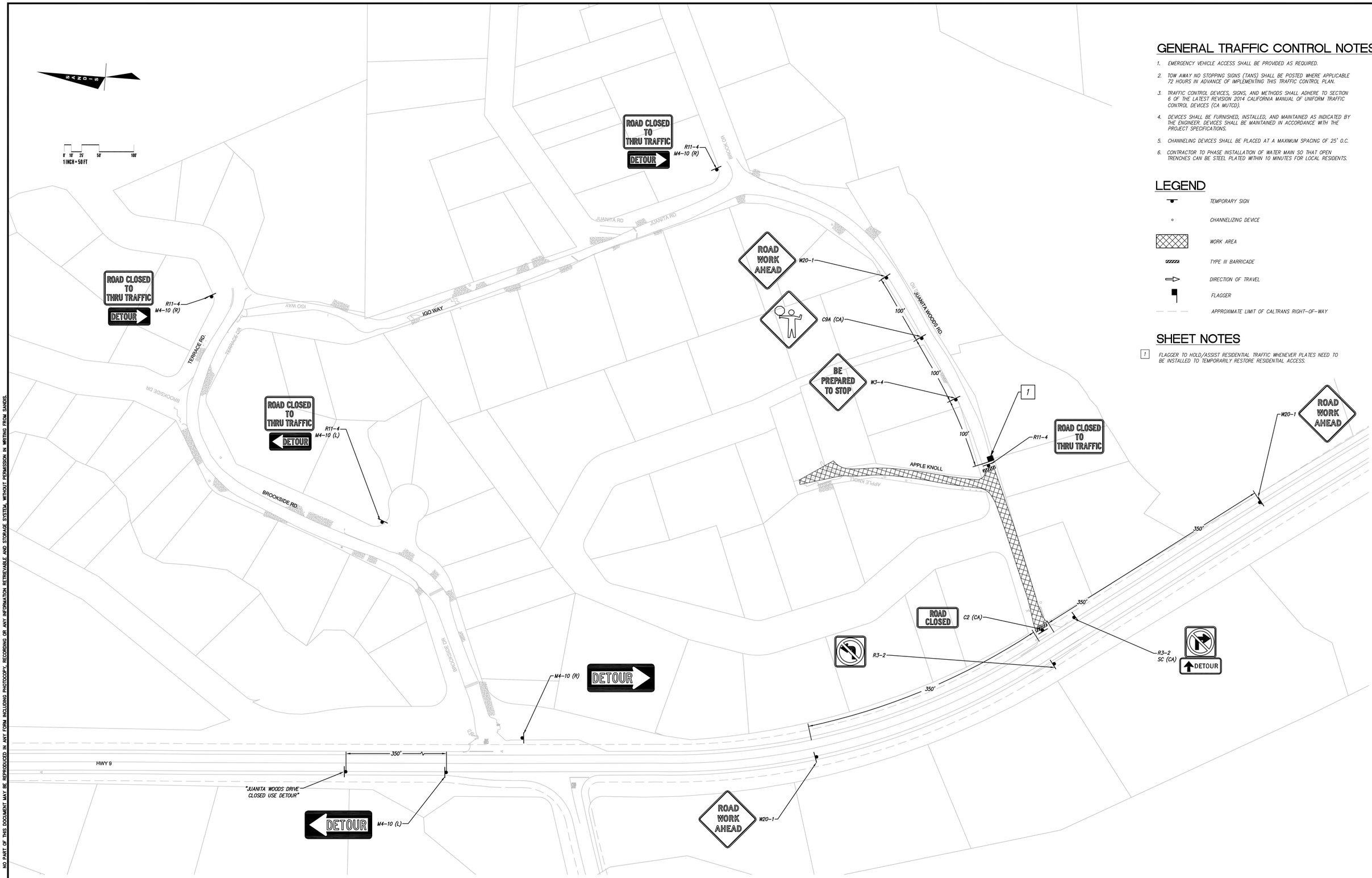

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
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4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1 FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.

* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=50'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - JUANITA WOODS ROAD

SHEET C3.14

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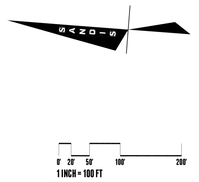

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
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4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=100'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDO III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - BEAR CREEK ROAD

SHEET C3.20

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0' 16' 40' 80' 160'
1 INCH = 80 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1 FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.

* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=100'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - ORMAN ROAD

SHEET C3.21

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SCALE: 1" = 100'

0' 20' 50' 100' 200'
1 INCH = 100 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CALTRANS RIGHT-OF-WAY

SHEET NOTES

1 FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.

* FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=100'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDI III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - ORMAN ROAD

SHEET C3.22

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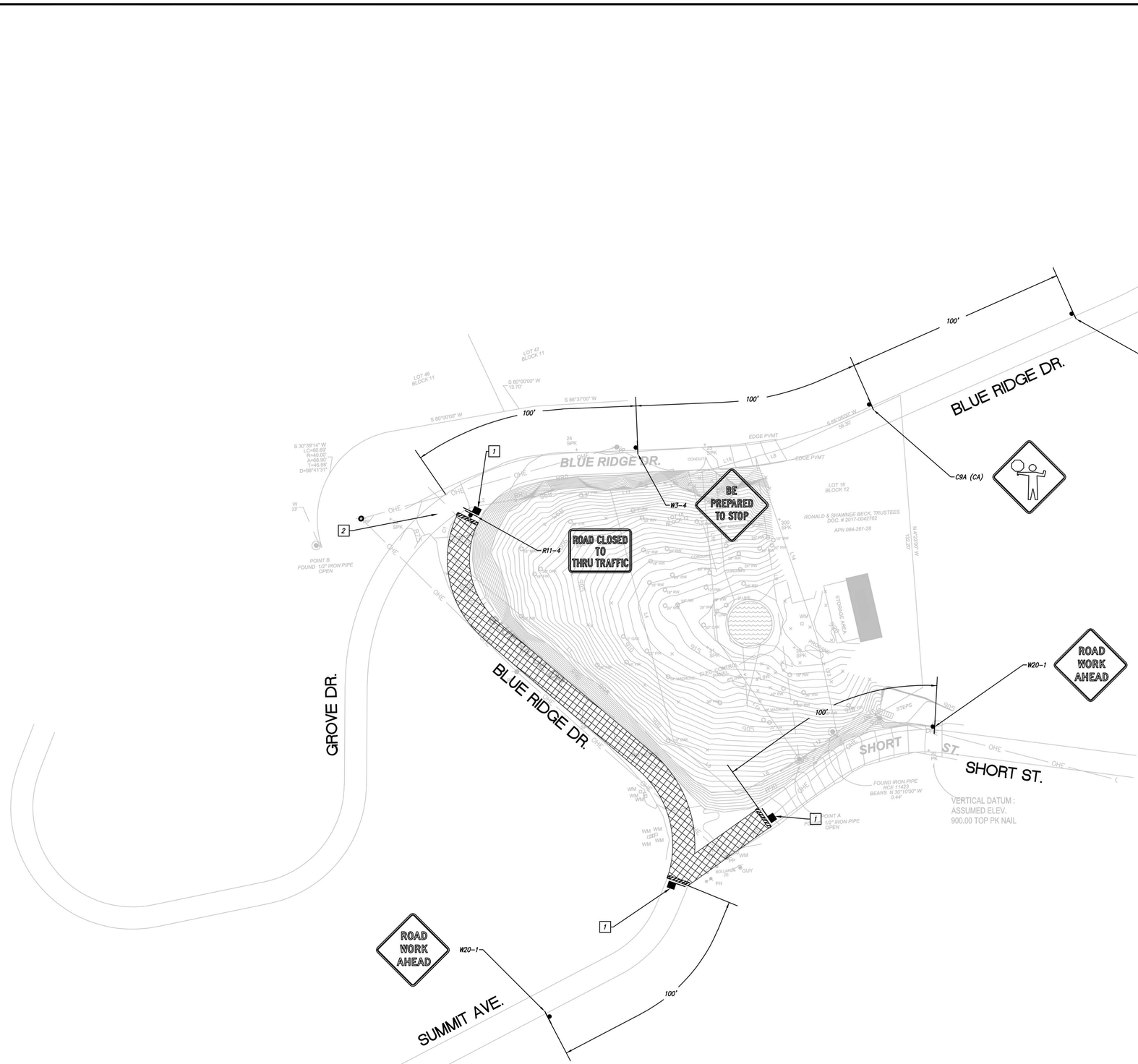

FULL REQUIRED SIGN SPACING NOT PROVIDED DUE TO SITE CONSTRAINTS

0' 4' 10' 20' 40'
1 INCH = 20 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
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5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER
- APPROXIMATE LIMIT OF CITY OF BOULDER CREEK RIGHT-OF-WAY

SHEET NOTES

1. FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER VEHICLES NEED TO BE MOVED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.
2. GROVE DRIVE IS A PRIVATE DRIVEWAY OUTSIDE OF CITY OF BOULDER CREEK RIGHT-OF-WAY.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=20'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDOR III — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - BLUE RIDGE DRIVE

SHEET C3.30

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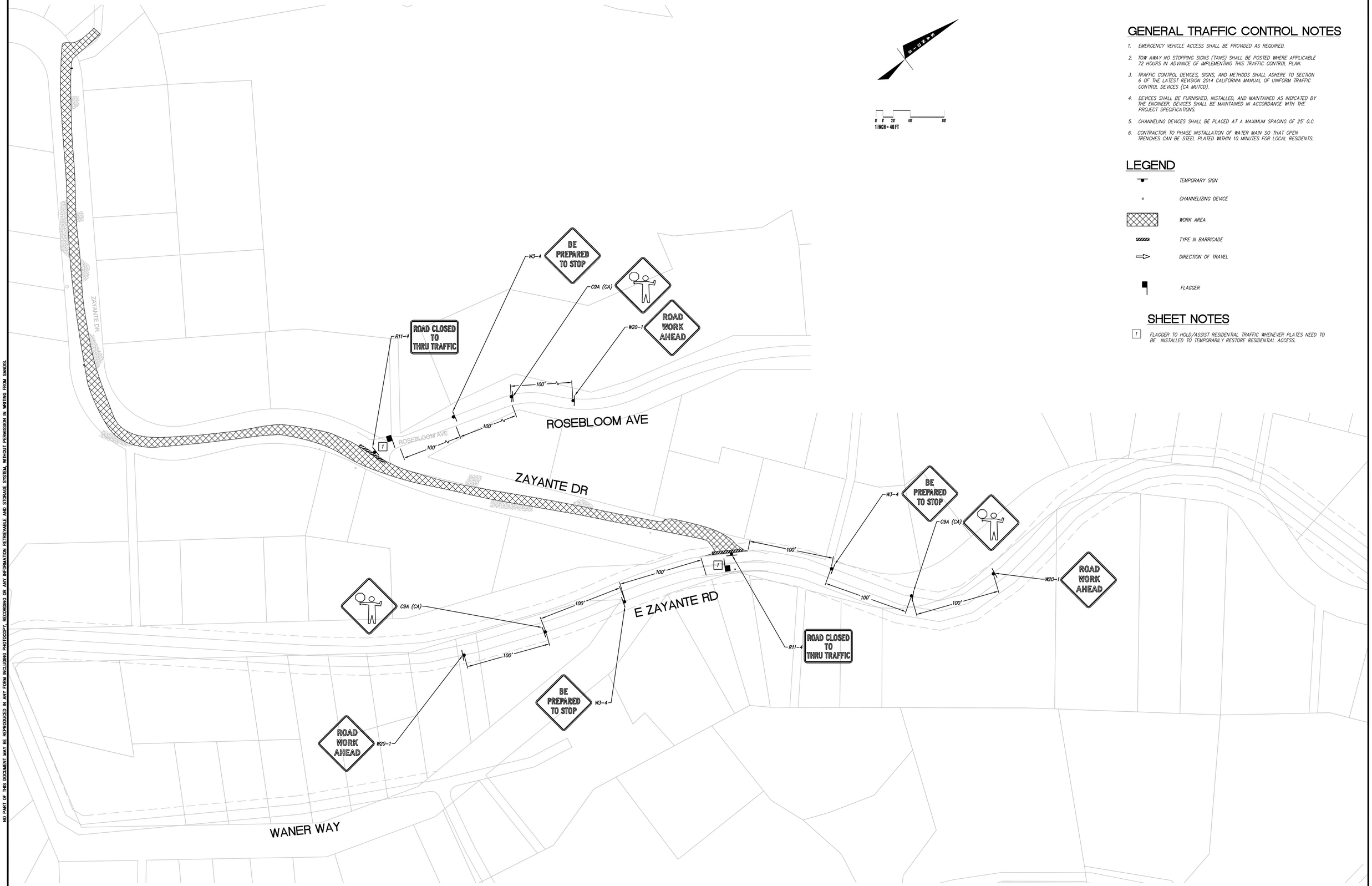

0' 10' 20' 40' 80'
1 INCH = 40 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
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5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

SHEET NOTES

1 FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.

* FULL 100' SIGN SPACING PRESCRIBED BY CA MUTCD NOT PROVIDED DUE TO SITE CONSTRAINTS.

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND LANZA No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - ZAYANTE DRIVE

SHEET C3.40

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GENERAL TRAFFIC CONTROL NOTES

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6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

* FULL 100' SIGN SPACING PRESCRIBED BY CA MUTCD NOT PROVIDED DUE TO SITE CONSTRAINTS.

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD

SHEET C3.50

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SANDIS

0' 8' 20' 40' 80'

1 INCH = 40 FT

GENERAL TRAFFIC CONTROL NOTES

1. EMERGENCY VEHICLE ACCESS SHALL BE PROVIDED AS REQUIRED.
2. TOW AWAY NO STOPPING SIGNS (TANS) SHALL BE POSTED WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST REVISION 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
4. DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS INDICATED BY THE ENGINEER. DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. CHANNELING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 25' O.C.
6. CONTRACTOR TO PHASE INSTALLATION OF WATER MAIN SO THAT OPEN TRENCHES CAN BE STEEL PLATED WITHIN 10 MINUTES FOR LOCAL RESIDENTS.

LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

* FULL 100' SIGN SPACING PRESCRIBED BY CA MUTCD NOT PROVIDED DUE TO SITE CONSTRAINTS.

SANDIS BUILD ON. SANDIS.NET

San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDI III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD

SHEET C3.51

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

SHEET NOTES

1 CONTRACTOR TO COORDINATE WITH SANTA CRUZ METRO TRANSIT DISTRICT (SCMTD) TO DETERMINE WHETHER ANY TEMPORARY MODIFICATIONS TO SERVICE ARE NEEDED WHILE THIS TRAFFIC CONTROL PLAN IS BEING IMPLEMENTED.

* FULL 100' SIGN SPACING PRESCRIBED BY CA MUTCD NOT PROVIDED DUE TO SITE CONSTRAINTS.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS III 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD

SHEET C3.52

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

SHEET NOTES

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDIS III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD

SHEET C3.53

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDI III No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD

SHEET C3.54

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

* FULL 100' SIGN SPACING PRESCRIBED BY CA MUTCD NOT PROVIDED DUE TO SITE CONSTRAINTS.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - GLEN ARBOR ROAD

SHEET C3.55

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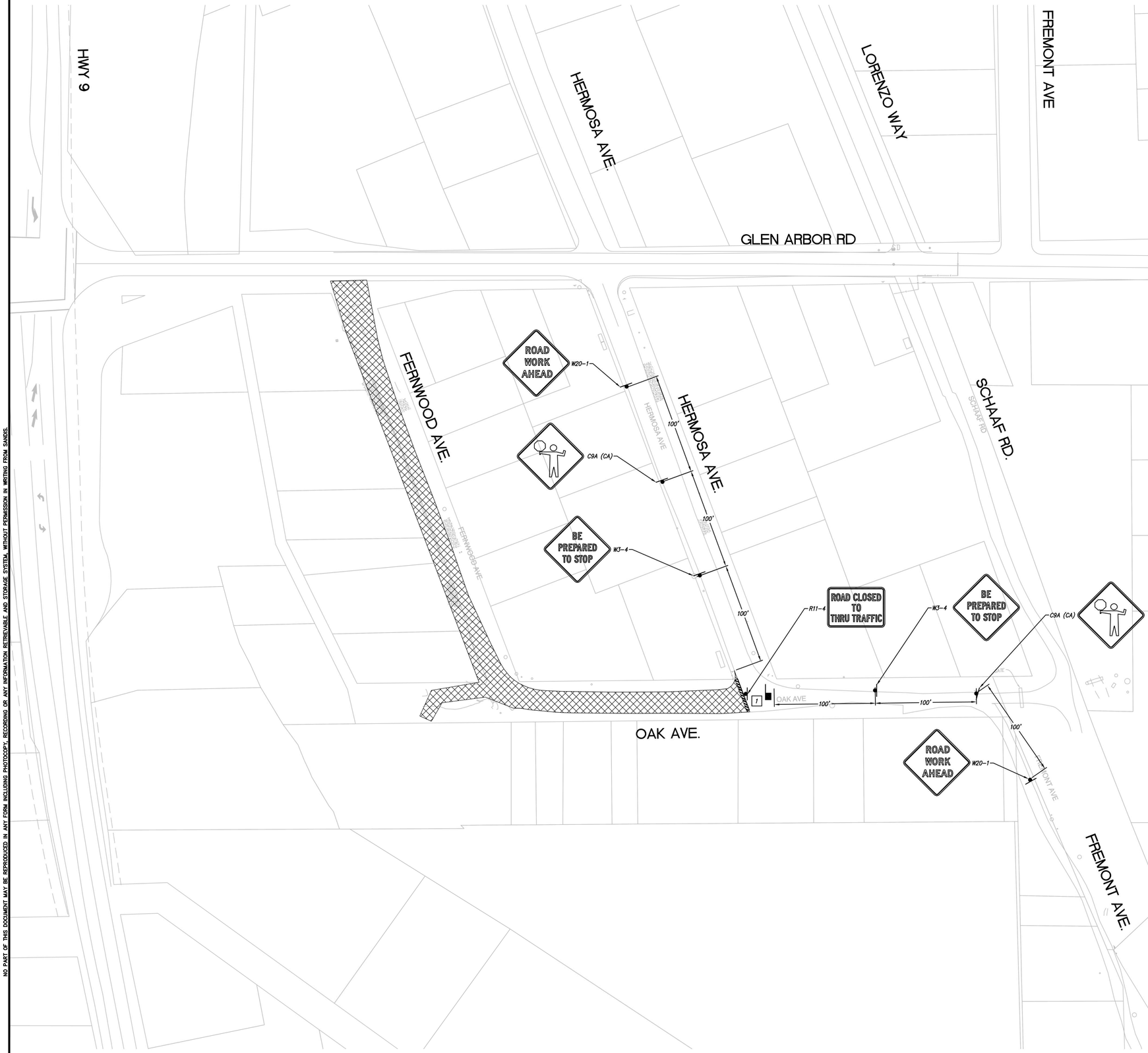

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

SHEET NOTES

1 FLAGGER TO HOLD/ASSIST RESIDENTIAL TRAFFIC WHENEVER PLATES NEED TO BE INSTALLED TO TEMPORARILY RESTORE RESIDENTIAL ACCESS.

* FULL 100' SIGN SPACING PRESCRIBED BY CA MUTCD NOT PROVIDED DUE TO SITE CONSTRAINTS.

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
PROJECT No.: 221572

REGISTERED PROFESSIONAL ENGINEER RONALD EDMUND SANDOR No. 79305 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - FERNWOOD AVENUE

SHEET C3.56

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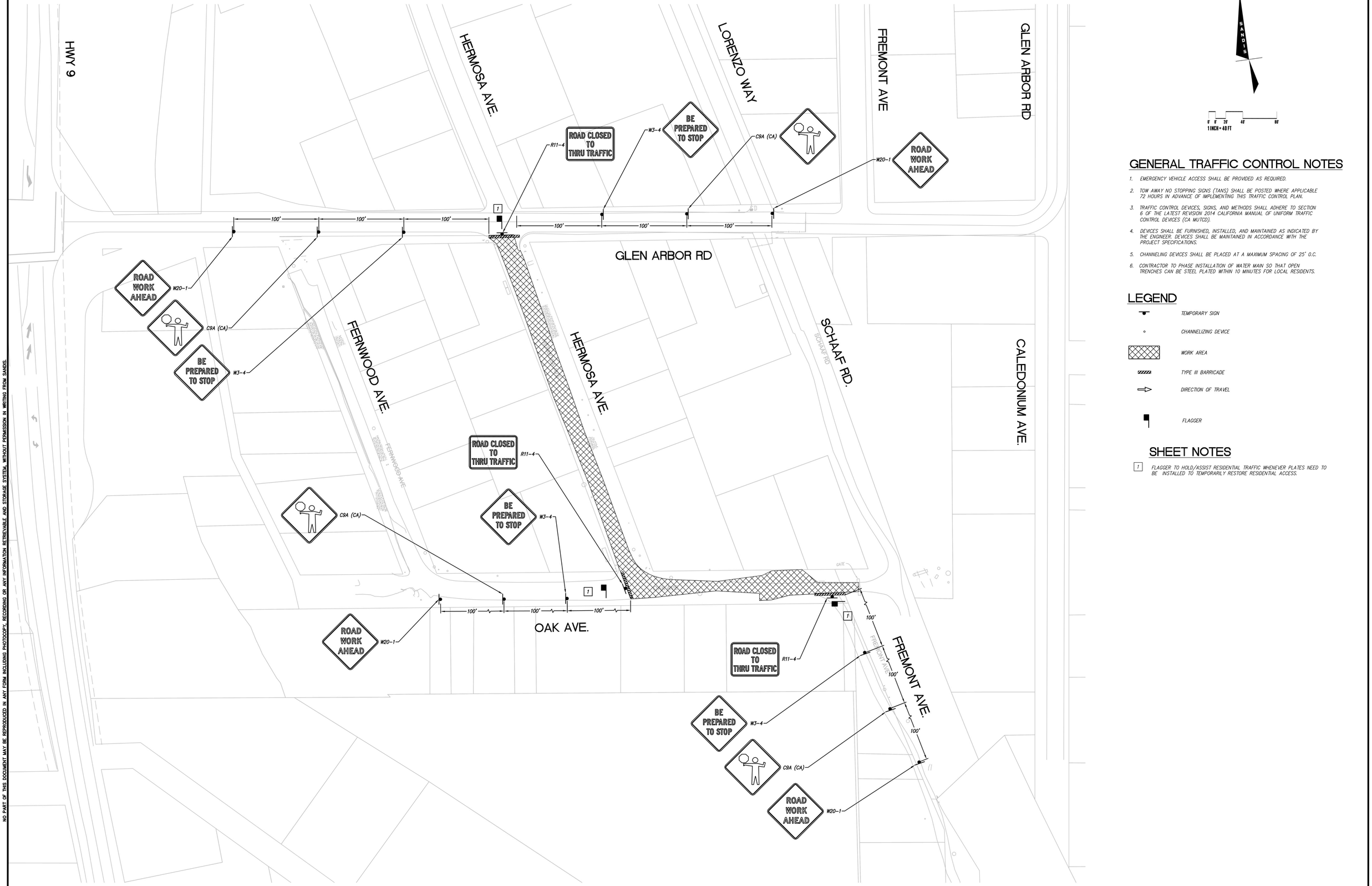

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

SHEET NOTES

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San Lorenzo Valley WATER DISTRICT

DATE: 3/30/2022
SCALE: 1"=40'
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REGISTERED PROFESSIONAL ENGINEER — RONALD EDMUND SANDIS — No. 79305 — Exp. 3/31/24 — CIVIL — STATE OF CALIFORNIA

No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - HERMOSA AVENUE

SHEET C3.57

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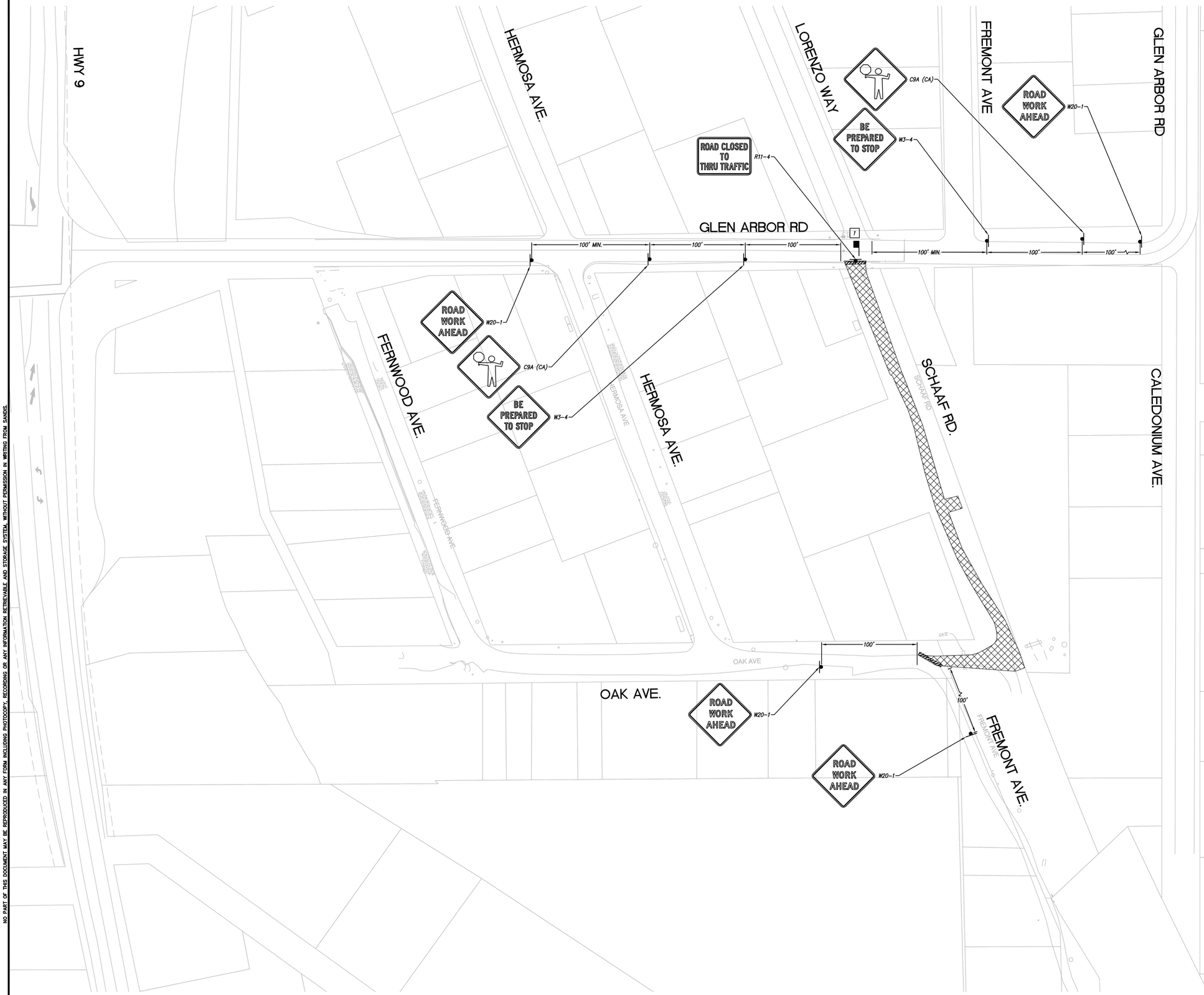

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LEGEND

- TEMPORARY SIGN
- CHANNELIZING DEVICE
- WORK AREA
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- FLAGGER

SHEET NOTES

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San Lorenzo Valley WATER DISTRICT

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No.	REVISION	DATE	BY

SAN LORENZO VALLEY WATER DISTRICT
2021 CIP PIPELINE PROJECT
BOULDER CREEK CALIFORNIA

TRAFFIC CONTROL PLANS - SCHAAF ROAD

SHEET C3.58

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