

PROJECT TEAM	APPROVALS
<p><b>STRUCTURAL ENGINEER</b> GHD - STEVE BURNS, SE 2235 MERCURY WAY, SUITE 150 SANTA ROSA, CA 95407 P: 707.523.1010 E: STEVE.C.BURNS@GHD.COM</p> <p><b>ELECTRICAL ENGINEER</b> GHD - ERIC OSORNO, PE 2235 MERCURY WAY, SUITE 150 SANTA ROSA, CA 95407 P: 707.523.1010 E: ERIC.OSORNO@GHD.COM</p> <p><b>CIVIL ENGINEER</b> GHD - MATT KENNEDY, PE 2235 MERCURY WAY, SUITE 150 SANTA ROSA, CA 95405 P: 707.523.1010 E: MATT.KENNEDY@GHD.COM</p>	<p>PLANS AND SPECIFICATIONS APPROVED BY THE MENDOCINO CITY COMMUNITY SERVICES DISTRICT.</p> <p><b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b> RYAN RHOADES, SUPERINTENDENT</p> <p><i>[Signature]</i> SIGNED</p> <p><b>ENGINEER: GHD Inc.</b> MATTHEW G. KENNEDY, PE</p> <p><i>[Signature]</i> SIGNED</p>
<p><b>BID SCHEDULES</b></p> <p>THE FOLLOWING BID SCHEDULE WORK IS REFLECTED ON THESE DRAWINGS: - BID SCHEDULE A: RECYCLED WATER DISTRIBUTION - BID SCHEDULE B: BOLTED STAINLESS STEEL RESERVOIR, FOUNDATION AND APPURTENANCES - 250,000 GALLON - BID SCHEDULE C: FRIENDSHIP PARK IRRIGATION SYSTEM - BID SCHEDULE E: SEWER MAIN REPLACEMENT - BID SCHEDULE I: BOLTED GLASS-FUSED STEEL-TO-STEEL RESERVOIR, FOUNDATION AND APPURTENANCES - 250,000 GALLON</p>	

**SCOPE OF WORK**

GENERALLY, THE PROJECT CONSISTS OF THE FOLLOWING:

DISCIPLINE	SUMMARY OF SCOPE
CIVIL	CONSTRUCTION OF NEW RECYCLED WATER MAINS AND IRRIGATION SERVICES FOR MUSD OWNED PROPERTY. ALSO INCLUDES CONSTRUCTION OF A NEW IRRIGATION SYSTEM FOR FRIENDSHIP PARK AND CONSTRUCTION OF A 250,000 GALLON BOLTED STEEL RECYCLED WATER STORAGE TANK. APPURTENANCES INCLUDE VALVES, FIRE HYDRANTS, FLOW METERS, BACKFLOW DEVICES, CHECK VALVES, AND PRESSURE REDUCING VALVES. REPLACEMENT OF AND EXISTING SANITARY SEWER MAIN AND MANHOLES.
STRUCTURAL	CONSTRUCTION OF A NEW 250,000 GALLON BOLTED STEEL RECYCLED WATER STORAGE TANK ON A REINFORCED CONCRETE FOUNDATION, INCLUDING VALVES, PIPING, AND APPURTENANCES.
ELECTRICAL	ROUTING OF UNDERGROUND ELECTRICAL AND TELECOMMUNICATION UTILITIES AROUND THE NEW RECYCLED WATER TANK FOR TANK LEVEL CONTROL.

**PARTIAL LIST OF APPLICABLE CODES**

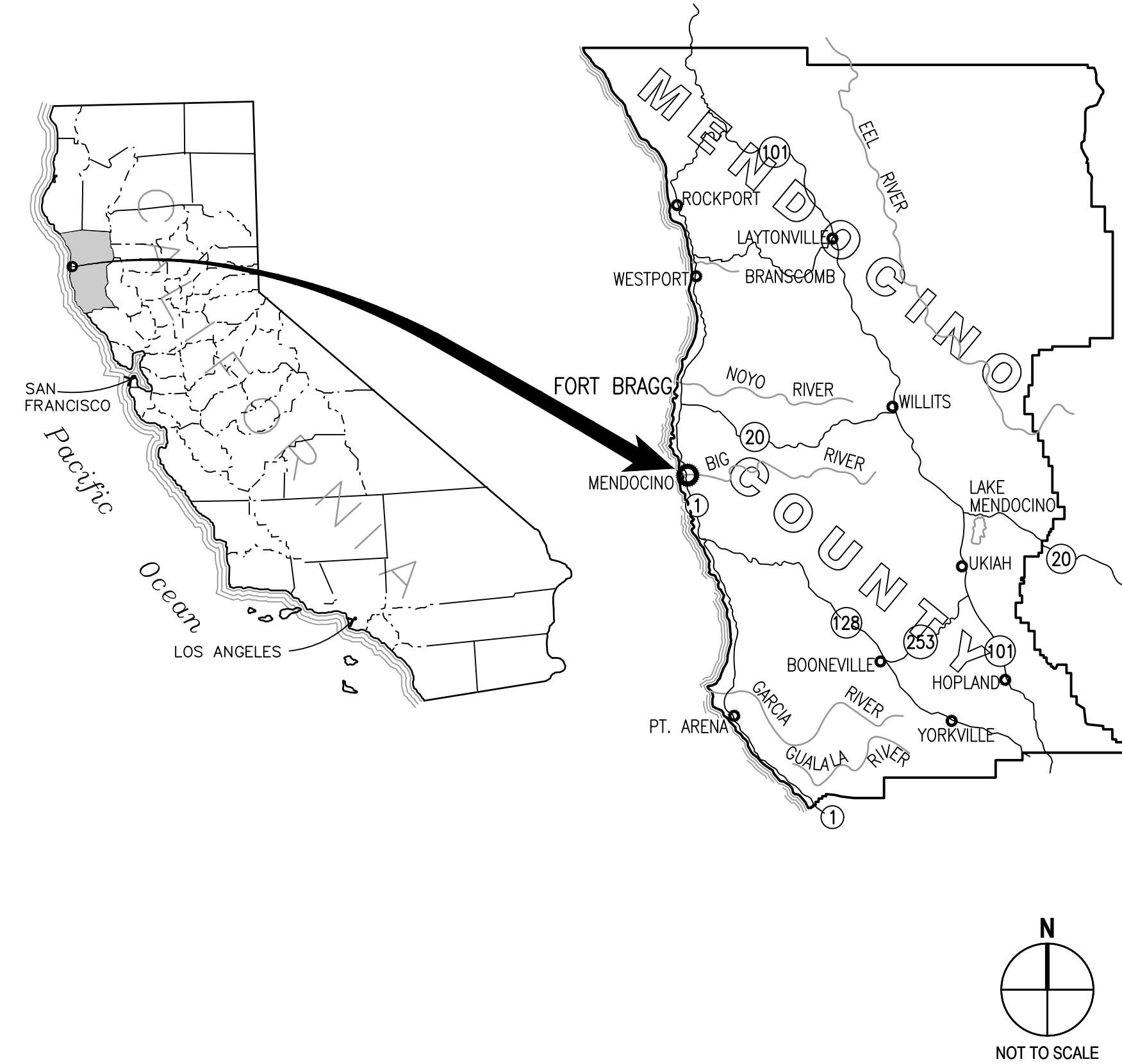
<p>THE 2019 TRIENNIAL EDITION OF CCR, TITLE 24: PART 1 - CALIFORNIA BUILDING STANDARDS ADMIN. CODE PART 2 - CALIFORNIA BUILDING CODE PART 3 - CALIFORNIA ELECTRICAL CODE PART 4 - CALIFORNIA MECHANICAL CODE PART 5 - CALIFORNIA PLUMBING CODE PART 6 - CALIFORNIA ENERGY CODE PART 9 - CALIFORNIA FIRE CODE PART 10 - CALIFORNIA EXISTING BUILDING CODE PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE PART 12 - CALIFORNIA REFERENCE STANDARDS CODE</p> <p>TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS</p> <p>NATIONAL REFERENCE STANDARDS: AWWA C110-12 DUCTILE-IRON FITTINGS AWWA C115-20 FLANGED DUCTILE-IRON PIPE WITH DUCTILE-IRON THREADED FLANGES AWWA C508-09 SWING CHECK VALVES FOR WATERWORKS AWWA C509-09 RESILIENT-SEATED GATE VALVES FOR WATER SUPPLY SERVICE AWWA C512-07 COMBINATION AIR VALVES FOR WATERWORKS SERVICE AWWA C900-22 POLYVINYL CHLORIDE PRESSURE PIPE AND FITTINGS FOR WATER DISTRIBUTION AND TRANSMISSION AWWA C906-15 POLYETHYLENE PRESSURE PIPE AND FITTINGS FOR WATER DISTRIBUTION AND TRANSMISSION AWWA D103-19 FACTORY-COATED BOLTED CARBON STEEL TANKS FOR WATER STORAGE NFPA 24-19 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) NFPA 25-23 INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEM (CA AMENDED) NFPA 14-19 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) NFPA 72-22 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) UL 464 (2003) AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES UL 1971 (2002, R2010) STANDARD FOR SIGNALING DEVICES FOR THE</p>	<p>HEARING IMPAIRED) FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO CBC (SFM) CHAPTER 35 AND CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.</p>
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# MENDOCINO CITY COMMUNITY SERVICES DISTRICT RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS

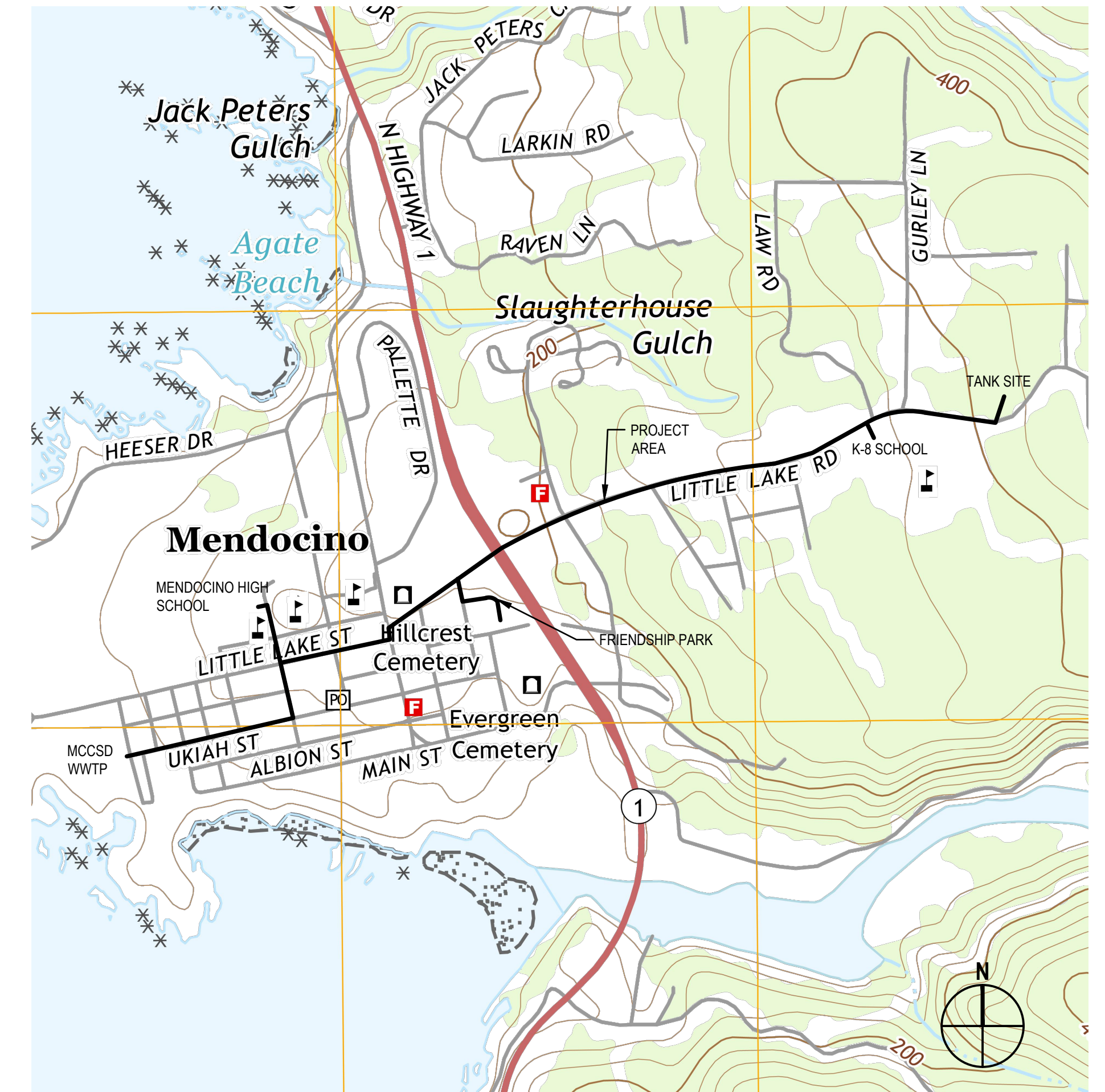
MARCH 2026



**AREA MAP**



**LOCATION MAP**



No.	Issue	Drawn	Approved	Date
		CB	MK	3/25/2026

Bar is one inch on original size sheet  
0 1"

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*[Signature]*  
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CIVIL  
STATE OF CALIFORNIA  
3/25/2026

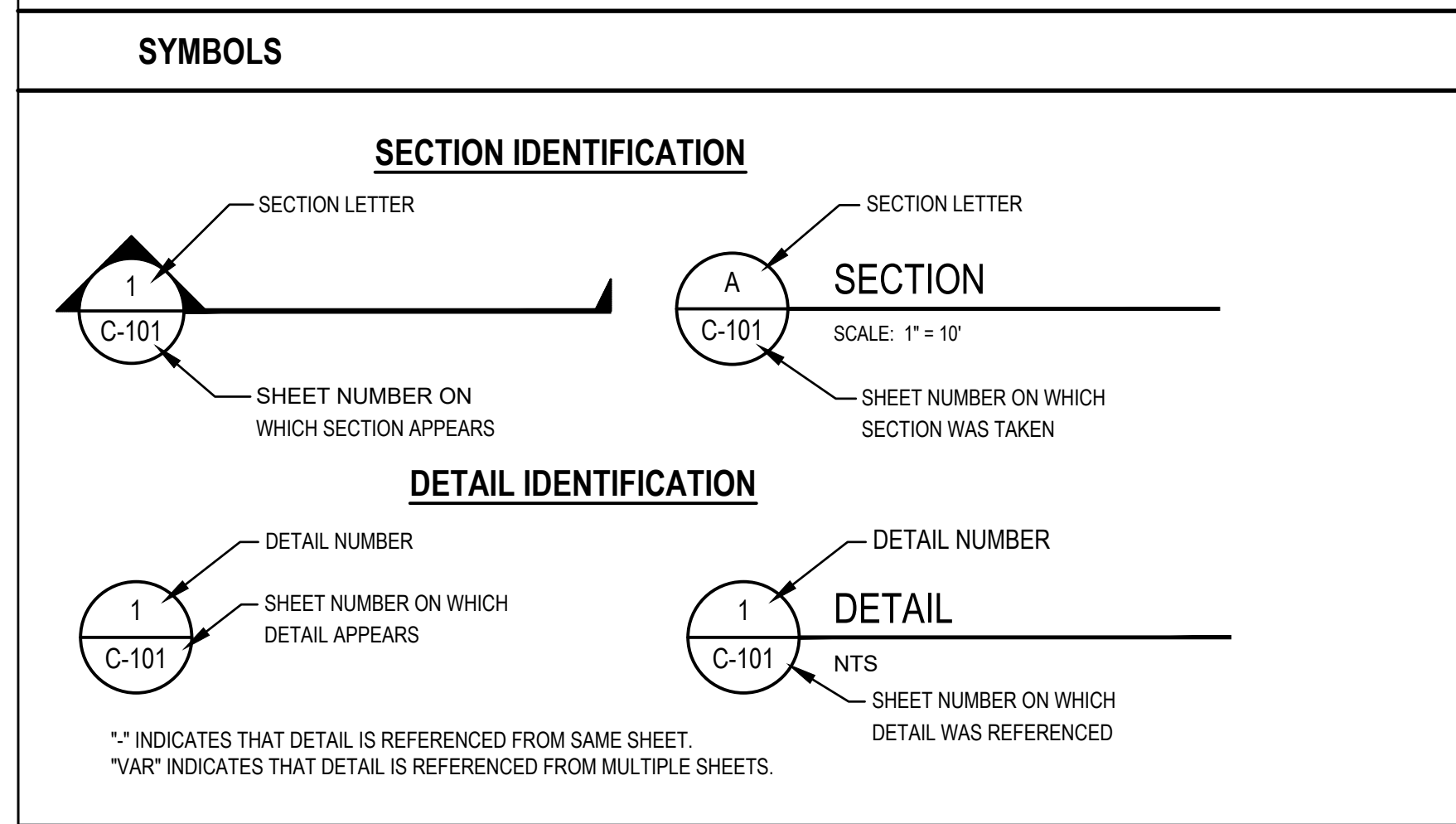
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Drafting Check <b>L. HALONEN M. KENNEDY</b>	Design Check <b>M. KENNEDY</b>	Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b>
Project Manager <b>M. KENNEDY</b>	Date <b>MARCH 2026</b>	Title <b>TITLE SHEET, VICINITY MAP, AND LOCATION MAP</b>
This document shall not be used for construction unless signed and sealed for construction.		Project No. <b>12619547</b>
Scale <b>AS SHOWN</b>	Original Size <b>ANSI D</b>	Drawing No. <b>G-001</b>
		Sheet <b>01</b> of <b>53</b>

ABBREVIATIONS			
@	AT	HV	HIGH VOLTAGE
AB	AGGREGATE BASE	ID	INSIDE DIAMETER
ABD	ABANDONED	INV, IE	INVERT ELEVATION
AC	ASPHALT	IT	INFORMATION TECHNOLOGY
ACP	ASBESTOS CEMENT PIPE	IRR	IRRIGATION
APN	ASSESSOR'S PARCEL NUMBER	(ITEM NO)	TITLE REPORT ITEM NUMBER
ARV	AIR RELEASE VALVE/VACUUM VALVE		
AWWA	AMERICAN WATER WORKS ASSOCIATION		
		JB	JUNCTION BOX
BC	BEGIN CURVE	KV	KILOVOLT
BFP	BACKFLOW PREVENTER		
BFPV	BACKFLOW PREVENTER CHECK VALVE		
BIR	BIRCH	L	LENGTH
BO	BLOW-OFF	LA	LIQUID AMBER
BLDG	BUILDING	LAT	LATERAL
BMP	BEST MANAGEMENT PRACTICE	LF	LINEAR FEET
BSW	BACK OF SIDEWALK	LO	LIVE OAK
		LT	LEFT OFFSET FROM CENTERLINE
C	COLD WATER	MAX	MAXIMUM
CATV	CABLE TELEVISION	MB	MAILBOX
CB	CATCH BASIN	MCCSD	MENDOCINO CITY COMMUNITY SERVICES
CD	CONTROLLED DENSITY FILL		
CI	CAST IRON		
CL	CENTERLINE	DISTRICT	DISTRICT
CLR	CLEARANCE	MH	MANHOLE
CHLC	CEMENT MORTAR LINED AND COATED	MIN	MINIMUM
CMP	CORROGATED METAL PIPE	MON	MONUMENT
CO	CLEANOUT	MUSD	MENDOCINO UNIFIED SCHOOL DISTRICT
COM, COMM	COMMUNICATION	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CONC	CONCRETE	N	NORTH
COND	CONDUIT	(N)	NEW
COR	CORNER	NE	NORTHEAST
CP	CONTROL POINT	NW	NORTHWEST
		NAVD	NORTH AMERICAN VERTICAL DATUM
DCV	DETECTOR CHECK VALVE	No.	NUMBER
DEPT	DEPARTMENT	NG	NATURAL GROUND
DI	DRAIN INLET	NTS	NOT TO SCALE
DN	DOCUMENT NUMBER		
DR	DRIVE, DRAIN	OD	OUTSIDE DIAMETER
DWG	DRAWING	OH	OVERHEAD
DW, DWY	DRIVEWAY	OR	OFFICIAL RECORDS
		ORN	ORNAMENTAL
E	EAST	PCC	PORTLAND CEMENT CONCRETE
(E)	EXISTING	PE	PLAIN END
EB	ELECTRICAL BOX	PED	PEDESTRIAN
EC	END CURVE	PGE	PACIFIC GAS AND ELECTRIC
EG	EXISTING GRADE	PL	PLASTIC, PROPERTY LINE
ELEC	ELECTRIC	POC	POINT OF CONNECTION
ELEV	ELEVATION	PP	POWERPOLE
EOR	ENGINEER OF RECORD	PSI	POUNDS PER SQUARE INCH
EP	EDGE OF PAVEMENT, END POINT	PT	POINT
ER	EDGE OF ROAD	PUE	PUBLIC UTILITY EASEMENT
ETW	EDGE OF TRAVELED WAY	PVC	POLYVINYL CHLORIDE PIPE
EUC	EUCALYPTUS	PVMT	PAVEMENT
EXIST	EXISTING		
FCA	FLANGE COUPLING ADAPTER	R	RADIUS
FG	FINISH GRADE	RC	RELATIVE COMPACTION
FH	FIRE HYDRANT	RCP	REINFORCED CONCRETE PIPE
FL	FLOWLINE, FLANGE	RD	ROAD
FLG	FLANGE	RE	RIM ELEVATION
FND	FOUND	ROW, RW	RIGHT-OFF-WAY
FM	FLOW METER	RT	RIGHT OFFSET FROM CENTERLINE
FNL	FENCE LINE	RW	RECYCLED WATER
FPVC	FUSIBLE PVC	RWB	RETAINING WALL BOTTOM
FS	FINISH SURFACE	RWT	RETAINING WALL TOP
		RWD	REDWOOD
G	GAS	S	SOUTH, SLOPE
GALV	GALVANIZED	SE	SOUTHEAST
GB	GRADE BREAK	SW	SOUTHWEST
GV	GAS VALVE	SCH	SCHEDULE
		SCP	SEDIMENT CONTROL PLAN
H	HORIZONTAL, HOT WATER	SD	STORM DRAIN
HDD	HORIZONTAL DIRECTIONAL DRILL	SDMH	STORM DRAIN MANHOLE
HDPE	HIGH DENSITY POLYETHYLENE	SL	STREET LIGHT
HMA	HOT MIX ASPHALT		

LEGEND			
<b>EXISTING</b>		<b>NEW</b>	
	(E) SURVEY CONTROL POINT		REMOVE OR ABANDON (E) UTILITY
	BORING LOCATION		(N) UNDERGROUND ELECTRIC LINE
	RIGHT OF WAY / BOUNDARY LINE		(N) RECYCLED WATER LINE
	EASEMENT LINE		(N) SANITARY SEWER LINE
	CENTERLINE		(N) UNDERGROUND DRAIN LINE
	(E) CONTOUR LINE & ELEVATION		(N) RECYCLED WATER VALVE
	(E) SPOT ELEVATION		(N) FIRE HYDRANT
	(E) DRIVEWAY		(N) WATER METER
	(E) EDGE OF PAVEMENT		(N) DOUBLE CHECK BACKFLOW PREVENTER
	(E) UNDERGROUND ELECTRIC LINE		TEMPORARY SILT FENCE
	(E) OVERHEAD LINE		TEMPORARY FIBER ROLL
	(E) ABANDONED WATER LINE		(N) FLOW LINE
	(E) WATER LINE		(N) CONTOUR LINE & ELEVATION
	(E) SANITARY SEWER LINE		(N) TREE
	(E) STORM DRAIN LINE		CLEAR AND GRUB AREA
	(E) TELEPHONE LINE		(N) GRAVEL SURFACE
	(E) AT&T COMM LINE		(N) HYDROSEED
	(E) WATER VALVE		(N) CROSS
	(E) DOUBLE CHECK BACKFLOW PREVENTER		(N) TEE
	(E) FIRE HYDRANT		(N) ELBOW (90-DEGREE SHOWN)
	(E) TRAFFIC SIGN		(N) BLIND FLANGE OR RESTRAINED MECHANICAL PLUG (SHOWN ON ONE LEG OF TEE)
	(E) SANITARY SEWER MANHOLE		(N) REDUCER
	(E) SANITARY SEWER CLEANOUT		(N) DROP INLET
	(E) DROP INLET		(N) SANITARY SEWER MANHOLE
	(E) TREE		(N) BOLLARD
	(E) TRANSFORMER		
	(E) BOLLARD		
	(E) WATER VAULT		
	(E) ELECTRICAL VAULT		
	(E) UTILITY POLE		
	(E) STREET LIGHT		
	(E) BUILDING		
	(E) FENCE LINE		

SHEET INDEX		
SHEET	DRAWING NO.	TITLE
<b>GENERAL</b>		
1	G-001	TITLE SHEET AND VICINITY MAP, AND LOCATION MAP
2	G-002	SHEET INDEX, ABBREVIATIONS AND LEGENDS
3	G-003	GENERAL NOTES
4	G-004	SURVEY CONTROL PLAN
5	G-005	HYDRAULIC PROFILE
6	G-006	GEOTECHNICAL LEGENDS AND BORING LOGS
7	G-007	GEOTECHNICAL BORING LOGS AND SOIL DESCRIPTIONS
<b>CIVIL</b>		
8	C-101	RECYCLED WATER LINE - STA 100+00 TO 104+40
9	C-102	RECYCLED WATER LINE - STA 104+40 TO 109+10
10	C-103	RECYCLED WATER LINE - STA 109+10 TO 114+00
11	C-104	RECYCLED WATER LINE - STA 114+00 TO 118+00
12	C-105	RECYCLED WATER LINE - STA 118+10 TO 122+60
13	C-106	RECYCLED WATER LINE - STA 122+60 TO 127+40
14	C-107	RECYCLED WATER LINE - STA 127+40 TO 131+50
15	C-108	RECYCLED WATER LINE - STA 131+50 TO 136+00
16	C-109	RECYCLED WATER LINE - STA 136+00 TO 140+70
17	C-110	RECYCLED WATER LINE - STA 140+70 TO 145+00
18	C-111	RECYCLED WATER LINE - STA 145+00 TO 149+50
19	C-112	RECYCLED WATER LINE - STA 149+50 TO 154+00
20	C-113	RECYCLED WATER LINE - STA 154+00 TO 158+50
21	C-114	RECYCLED WATER LINE - STA 158+50 TO 163+20
22	C-115	RECYCLED WATER LINE - STA 163+20 TO 167+50
23	C-116	RECYCLED WATER LINE - STA 167+50 TO 172+00
24	C-117	RECYCLED WATER LINE - STA 172+00 TO 176+50
25	C-118	RECYCLED WATER LINE - STA 176+50 TO 181+00
26	C-119	RECYCLED WATER LINE - STA 181+00 TO 182+31
27	C-120	RECYCLED WATER LINE - STA 200+00 TO 203+00
28	C-121	RECYCLED WATER LINE - STA 203+00 TO 205+73
29	C-122	RECYCLED WATER LINE - STA 300+00 TO 303+00
30	C-123	RECYCLED WATER LINE - STA 303+00 TO 305+40
31	C-124	RECYCLED WATER LINE - STA 400+00 TO 402+37
32	C-125	RECYCLED WATER LINE - STA 500+00 TO 501+41
33	C-401	RECYCLED WATER TANK SITE PLAN
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35	C-502	CIVIL DETAILS 2
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38	C-505	CIVIL DETAILS 5
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41	L-101	FRIENDSHIP PARK IRRIGATION PLAN
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46	L-501	IRRIGATION DETAILS 1
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<b>ELECTRICAL</b>		
49	E-001	ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES
50	E-101	RECYCLED WATER TANK ELECTRICAL SITE PLAN
51	E-401	CONTROL BUILDING ELECTRICAL ENLARGED PLAN
52	E-501	ELECTRICAL DETAILS 1
53	E-601	ELECTRICAL SCHEDULES



**DRAWING DESIGNATION**

LETTER	DISCIPLINE
G	GENERAL
C	CIVIL
E	ELECTRICAL

DISCIPLINE: C - 1 0 1  
INDIVIDUAL DRAWING NUMBER: 1  
SHEET TYPE: 0

NUMBER	SHEET TYPE
0	GENERAL
1	PLANS
2	ELEVATIONS
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	CODE COMPLIANCE FORMS

<p>Bar is one inch on original size sheet</p> <p>0 1"</p>								<p>Client <b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b> Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b> Title <b>SHEET INDEX, ABBREVIATIONS, AND LEGENDS</b></p>	
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<p>CONFORMED DRAWINGS</p> <p>No. Issue Drawn Approved Date</p>				<p>3/25/2026</p> <p>CB MK</p>		<p>Drawing No. <b>G-002</b></p>		<p>Sheet <b>02</b> of <b>53</b></p>	

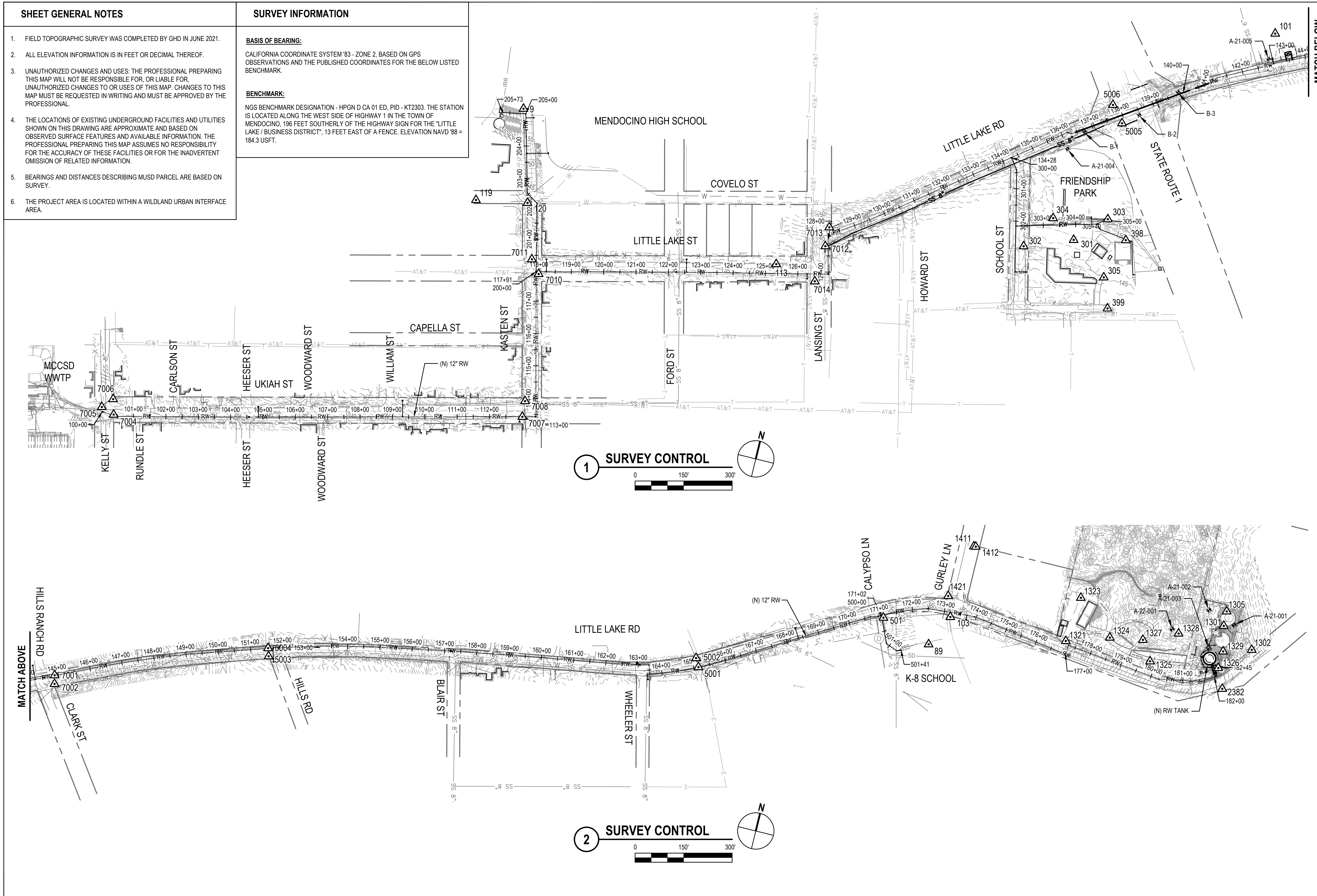


- SHEET GENERAL NOTES**
- FIELD TOPOGRAPHIC SURVEY WAS COMPLETED BY GHD IN JUNE 2021.
  - ALL ELEVATION INFORMATION IS IN FEET OR DECIMAL THEREOF.
  - UNAUTHORIZED CHANGES AND USES: THE PROFESSIONAL PREPARING THIS MAP WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THIS MAP. CHANGES TO THIS MAP MUST BE REQUESTED IN WRITING AND MUST BE APPROVED BY THE PROFESSIONAL.
  - THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES SHOWN ON THIS DRAWING ARE APPROXIMATE AND BASED ON OBSERVED SURFACE FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.
  - BEARINGS AND DISTANCES DESCRIBING MUSD PARCEL ARE BASED ON SURVEY.
  - THE PROJECT AREA IS LOCATED WITHIN A WILDLAND URBAN INTERFACE AREA.

**SURVEY INFORMATION**

**BASIS OF BEARING:**  
CALIFORNIA COORDINATE SYSTEM '83 - ZONE 2, BASED ON GPS OBSERVATIONS AND THE PUBLISHED COORDINATES FOR THE BELOW LISTED BENCHMARK.

**BENCHMARK:**  
NGS BENCHMARK DESIGNATION - HPGN D CA 01 ED, PID - KT2303. THE STATION IS LOCATED ALONG THE WEST SIDE OF HIGHWAY 1 IN THE TOWN OF MENDOCINO, 196 FEET SOUTHERLY OF THE HIGHWAY SIGN FOR THE "LITTLE LAKE / BUSINESS DISTRICT", 13 FEET EAST OF A FENCE. ELEVATION NAVD '88 = 184.3 USFT.

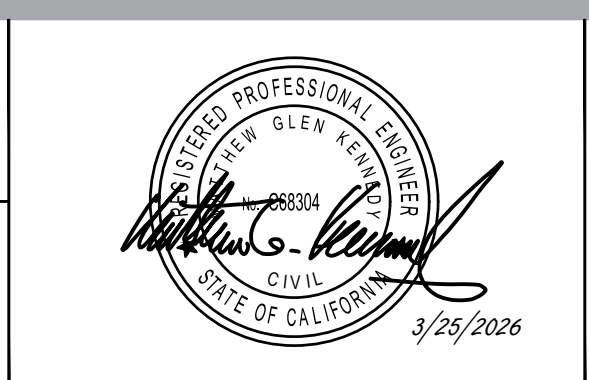
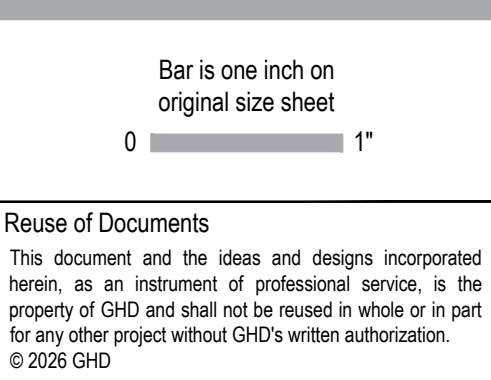


SURVEY CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEV	DESCRIPTION
9	2243335.20	6051712.27	157.09	FND NAIL
89	2244636.11	6056758.26	355.33	MAG
101	2244023.77	6053943.22	199.04	CP MAG&WASH
103	2244732.19	6056807.26	362.13	CP MAG
113	2243019.54	6052573.10	136.36	CP MAG
119	2243029.62	6051624.16	132.01	CP MAG
120	6051624.16	6051782.22	140.79	EX MAG CP
301	2243275.39	6053459.23	148.73	SET MAG
302	2243225.43	6053311.60	146.93	SET MAG
303	2243358.93	6053550.14	156.59	SET MAG
304	2243328.60	6053383.91	156.50	SET X
305	2243180.24	6053573.54	145.56	SET MAG
398	2243306.40	6053617.44	149.62	SET 60 d
399	2243088.51	6053603.83	143.12	SET MAG
501	2244689.07	6056605.01	353.46	SET MAG
1301	2244873.16	6057641.06	430.94	SET 60 d
1302	2244820.13	6057740.46	437.76	SET 60 d + SHNR
1305	2244918.64	6057641.03	431.60	SET 60 d
1321	2244730.23	6057171.64	384.08	SET 60 d
1323	2244870.46	6057190.84	385.41	SET 60 d
1324	2244767.72	6057303.15	394.88	SET 60 d
1325	2244720.44	6057439.54	406.53	SET 60 d
1326	2244742.25	6057650.11	428.52	FND 60 d
1327	2244781.15	6057404.53	403.84	SET 60 d
1328	2244822.13	6057508.81	412.41	SET 60 d
1329	2244795.33	6057654.67	430.12	SET 60 d
1411	2244960.39	6056835.27	362.25	FND 3/4 IP RCE PLUG O/S 12
1412	2244960.62	6056841.21	362.14	FND 3/4 IP RCE PLUG O/S 18
1421	2244794.38	6056787.78	362.98	FND 3/4 IP NOTAG
2382	2244681.62	6057675.08	429.22	SET 60 d + SHNR
5001	2244425.83	6056075.00	337.99	FX
5002	2244451.71	6056062.20	336.95	SET 60 d
5003	2244194.93	6054766.37	278.43	FX
5004	2244219.05	6054759.76	279.02	FX
5005	2243658.17	6053534.09	176.10	FX
5006	2243708.39	6053495.50	177.37	FX
7001	2244006.23	6054129.79	211.34	FX
7002	2243980.01	6054134.81	210.93	FX
7004	2242157.38	6050658.46	70.70	FX
7005	2242173.20	6050617.83	70.60	MAG
7006	2242203.86	6050647.32	71.42	FX
7007	2242401.30	6051897.66	112.56	FX
7008	2242450.52	6051896.37	113.63	FX
7010	2242843.96	6051859.42	128.31	FX
7011	2242884.18	6051829.98	130.92	FX
7012	2243103.98	6052710.89	142.53	FX
7013	2243163.50	6052711.28	145.44	FX
7014	2242991.18	6052700.62	137.73	FX

No.	Issue	Drawn	Approved	Date
	CONFORMED DRAWINGS	CB	MK	3/25/2026

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0 150' 300'

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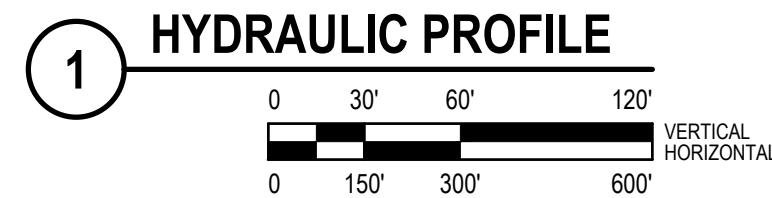
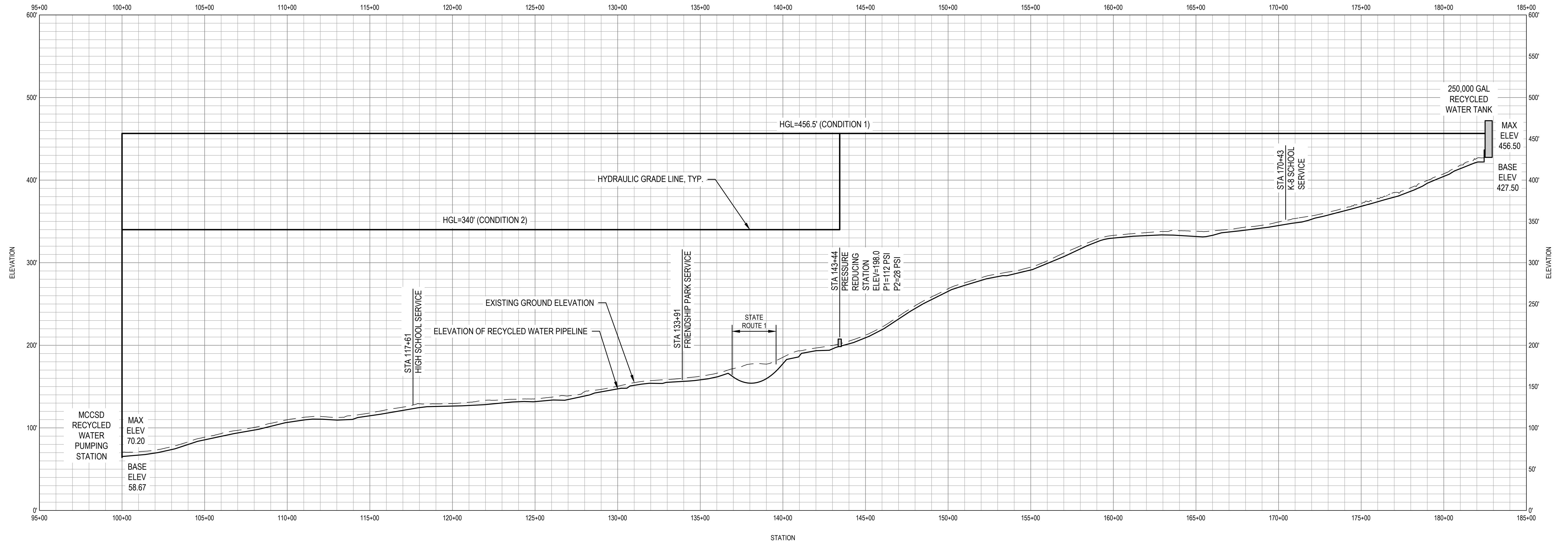


Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client Project	MENDOCINO CITY COMMUNITY SERVICES DISTRICT RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	SURVEY CONTROL PLAN	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	G-004	
Sheet	04 of 53	

**SHEET GENERAL NOTES**

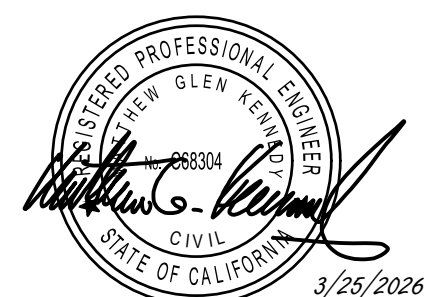
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 CONDITION 1: PUMP ON AT MCCSD WWTP, Q = 250 GPM, TDH = 400 FT.  
 CONDITION 2: GRAVITY FEED FROM RECYCLED WATER TANK, DEMAND = 250 GPM
- MAXIMUM SUSTAINED SYSTEM OPERATING PRESSURE = 168 PSI.



CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

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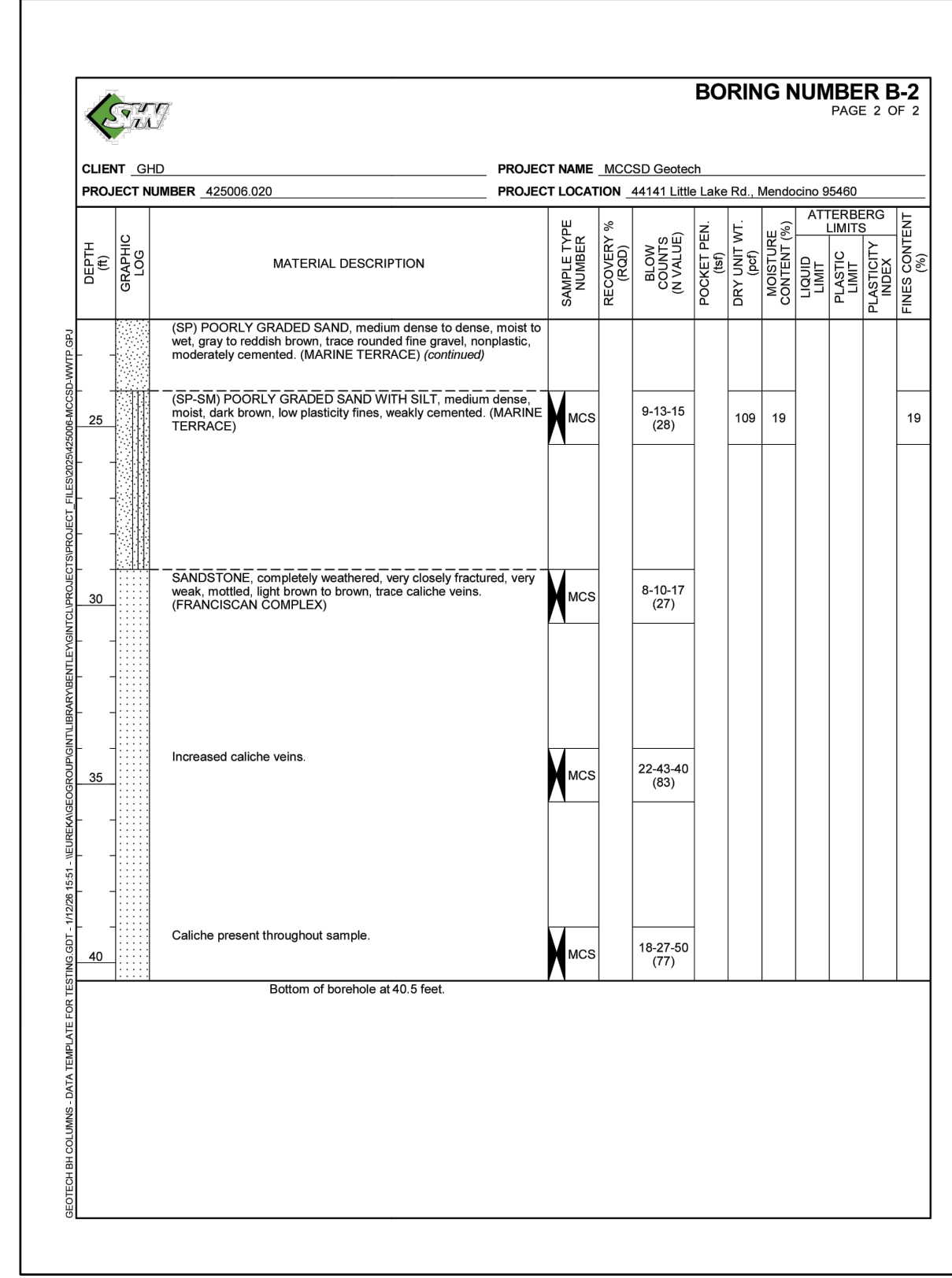
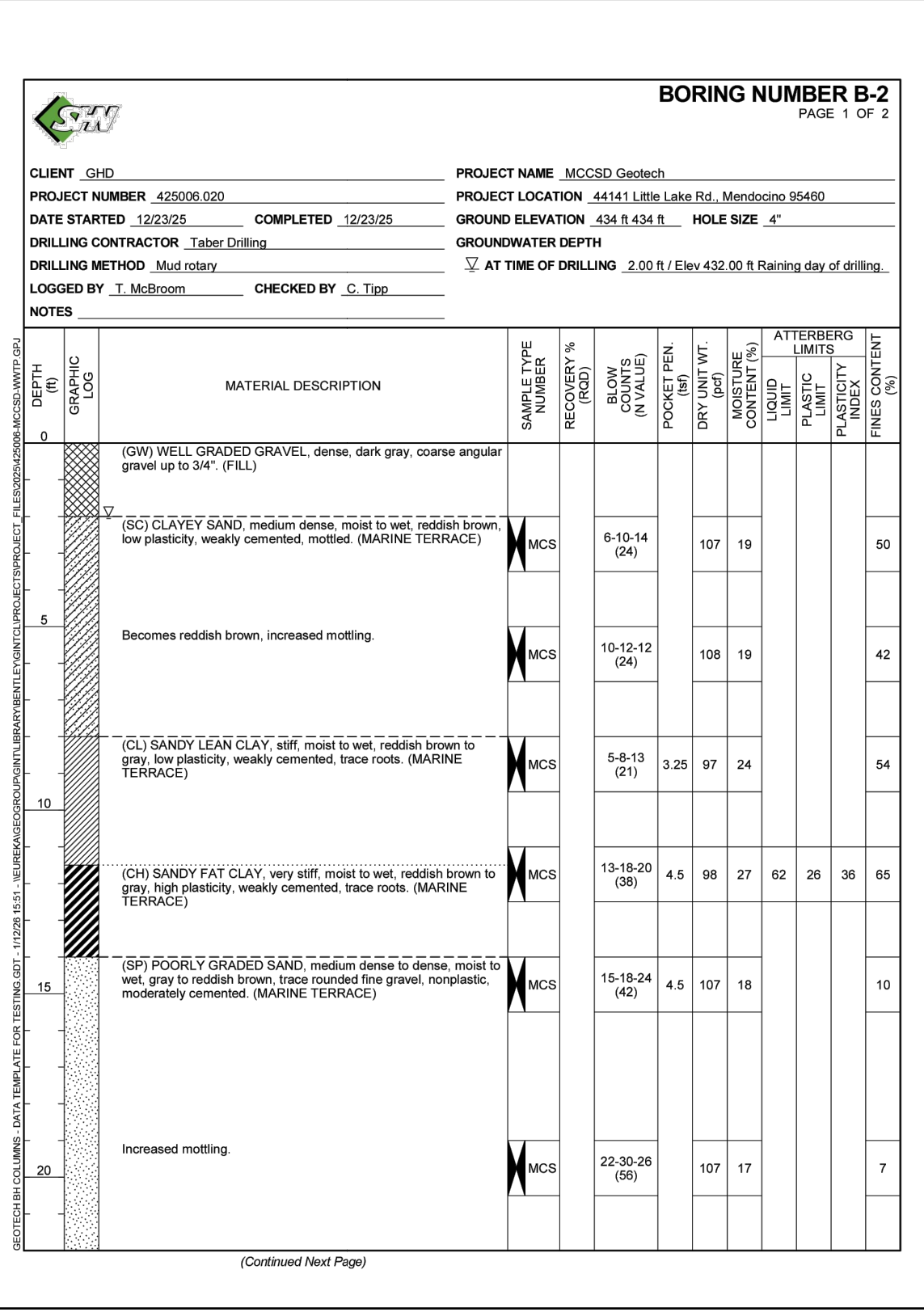
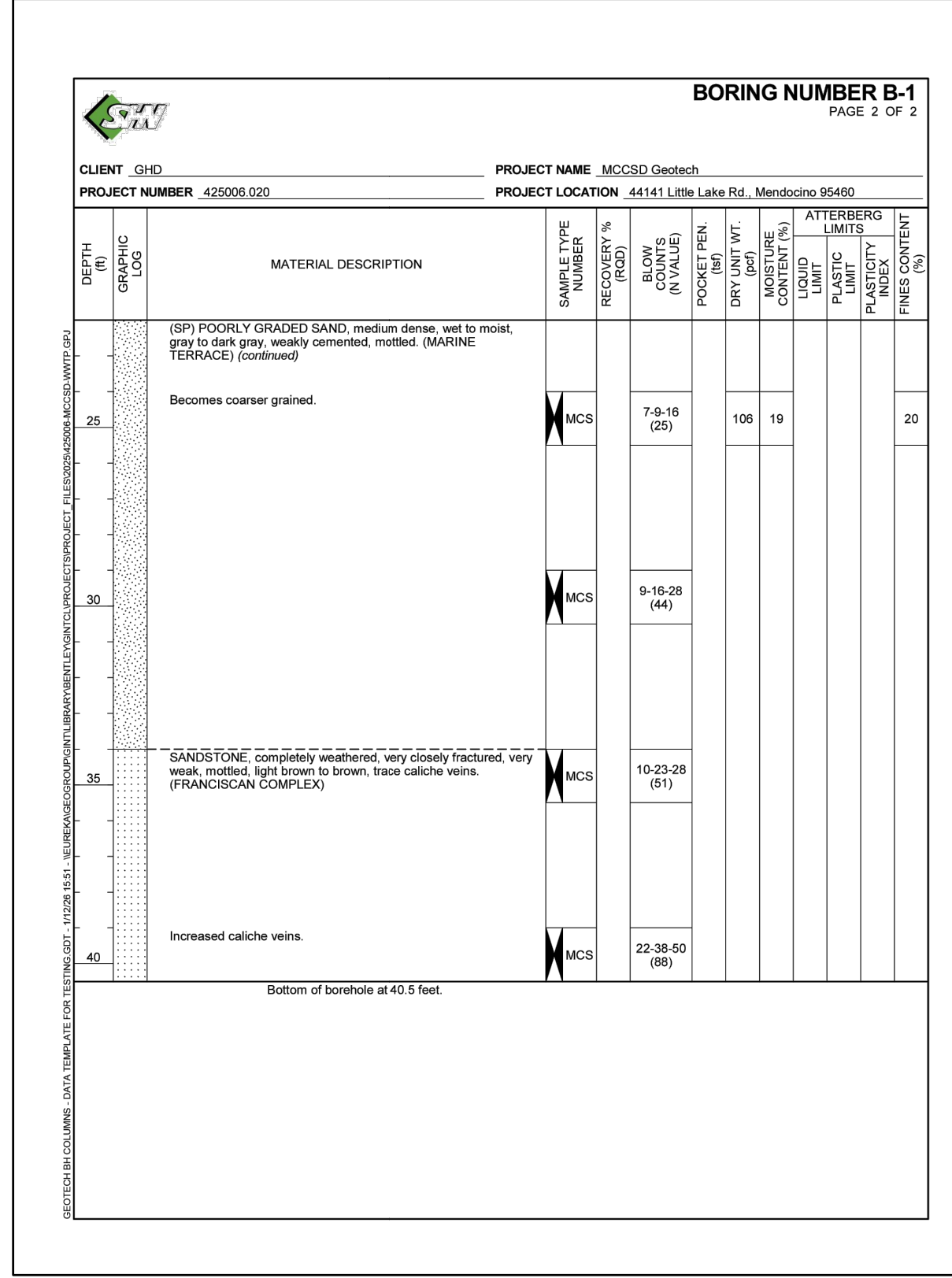
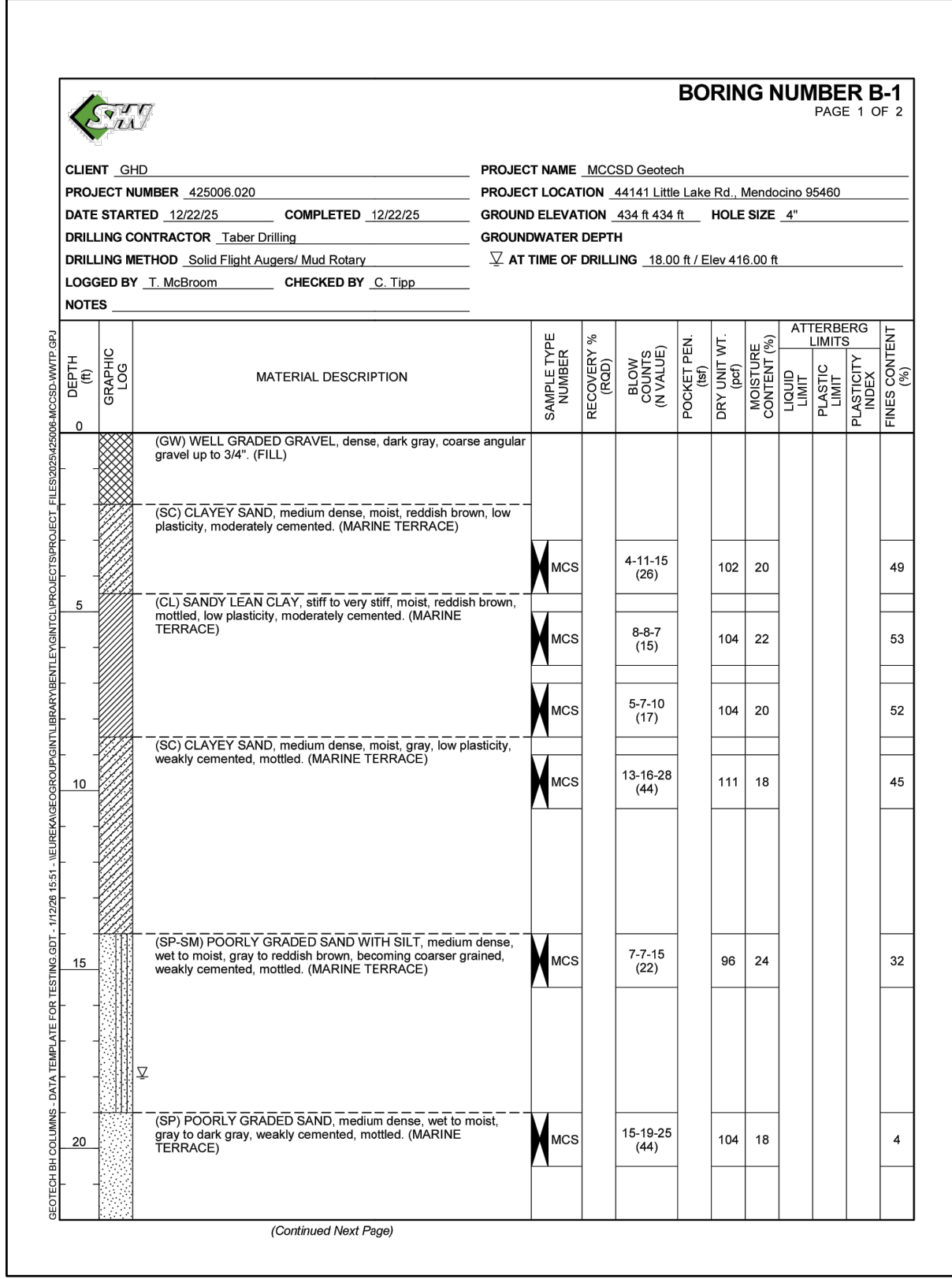
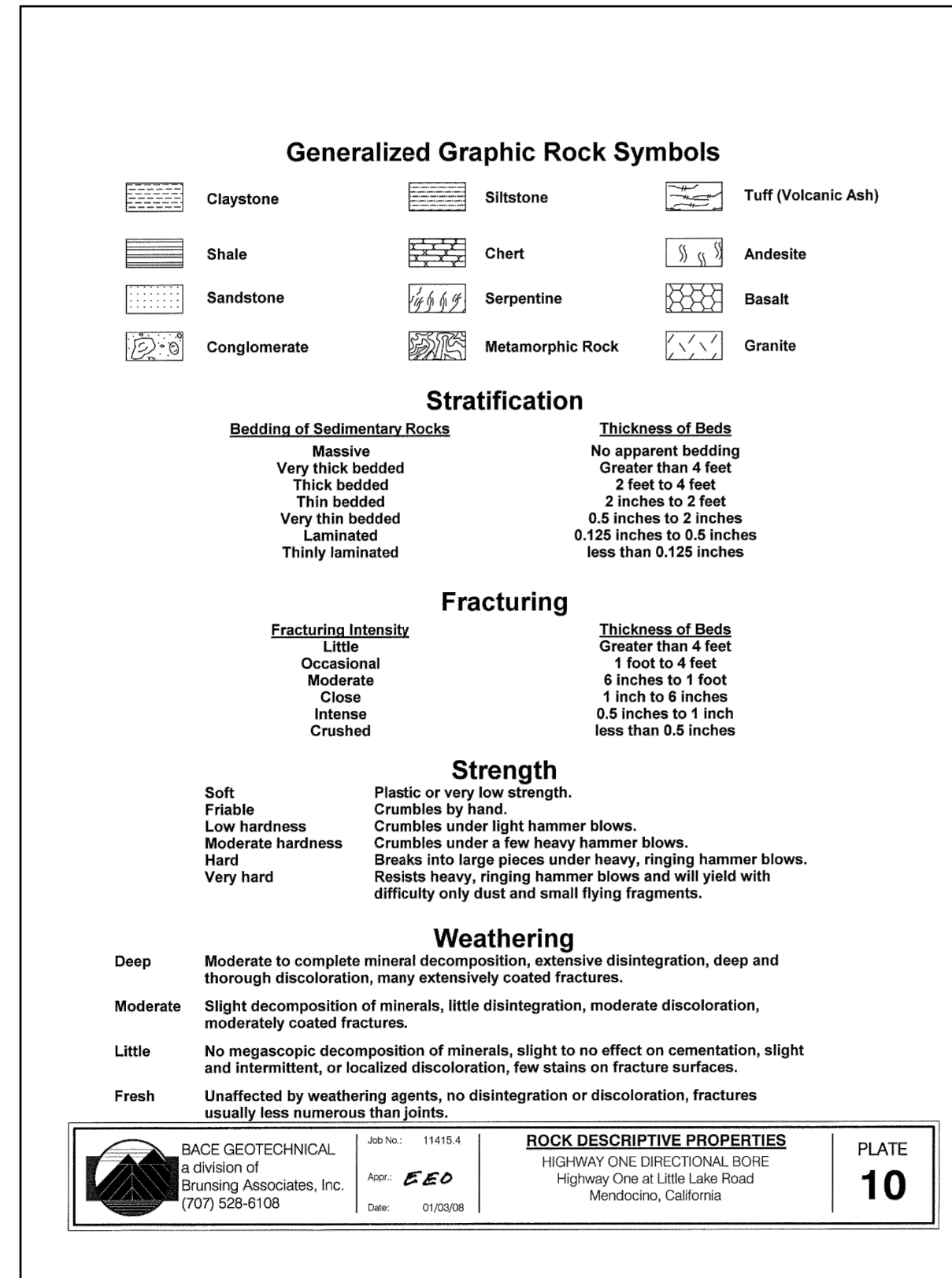
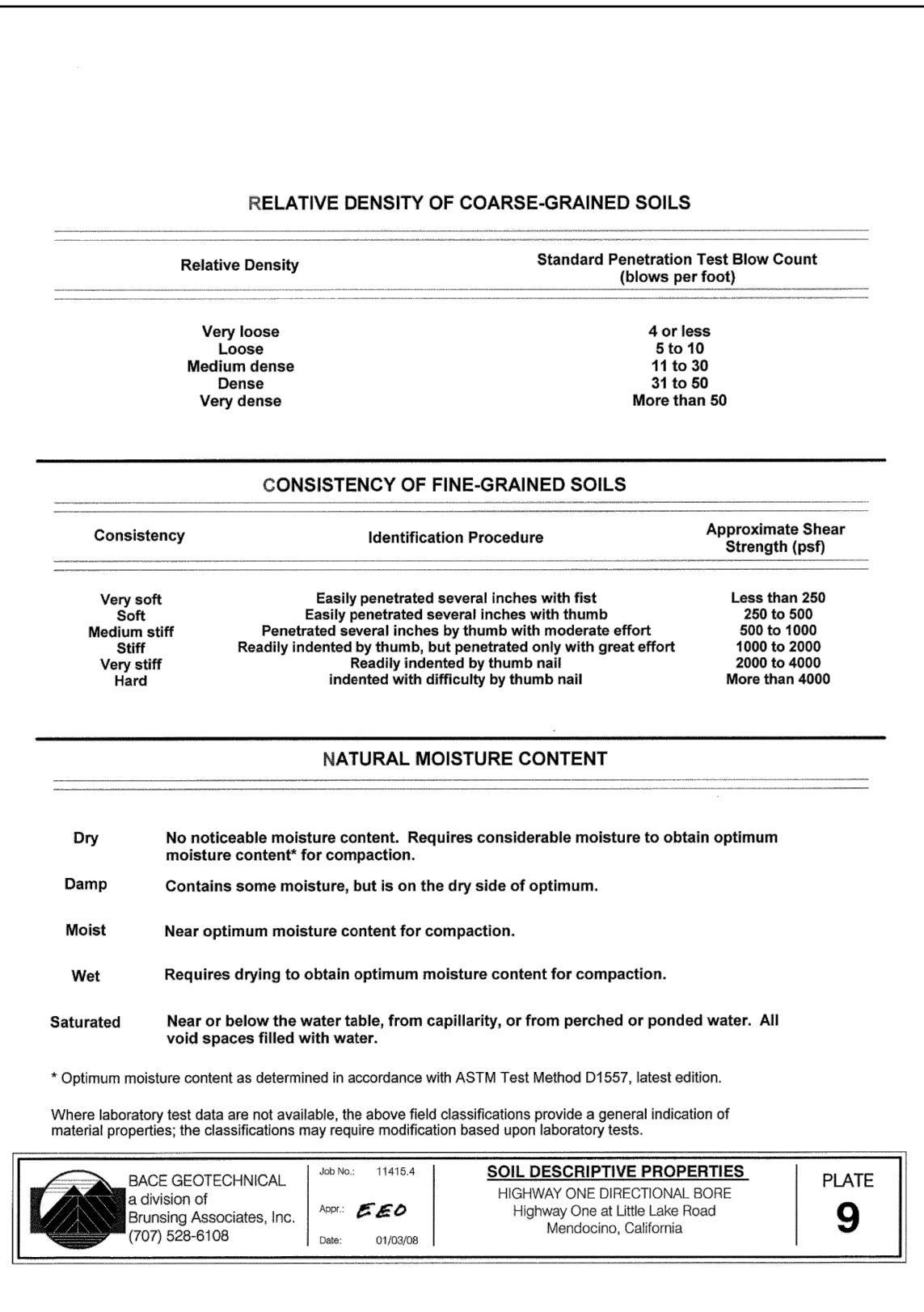
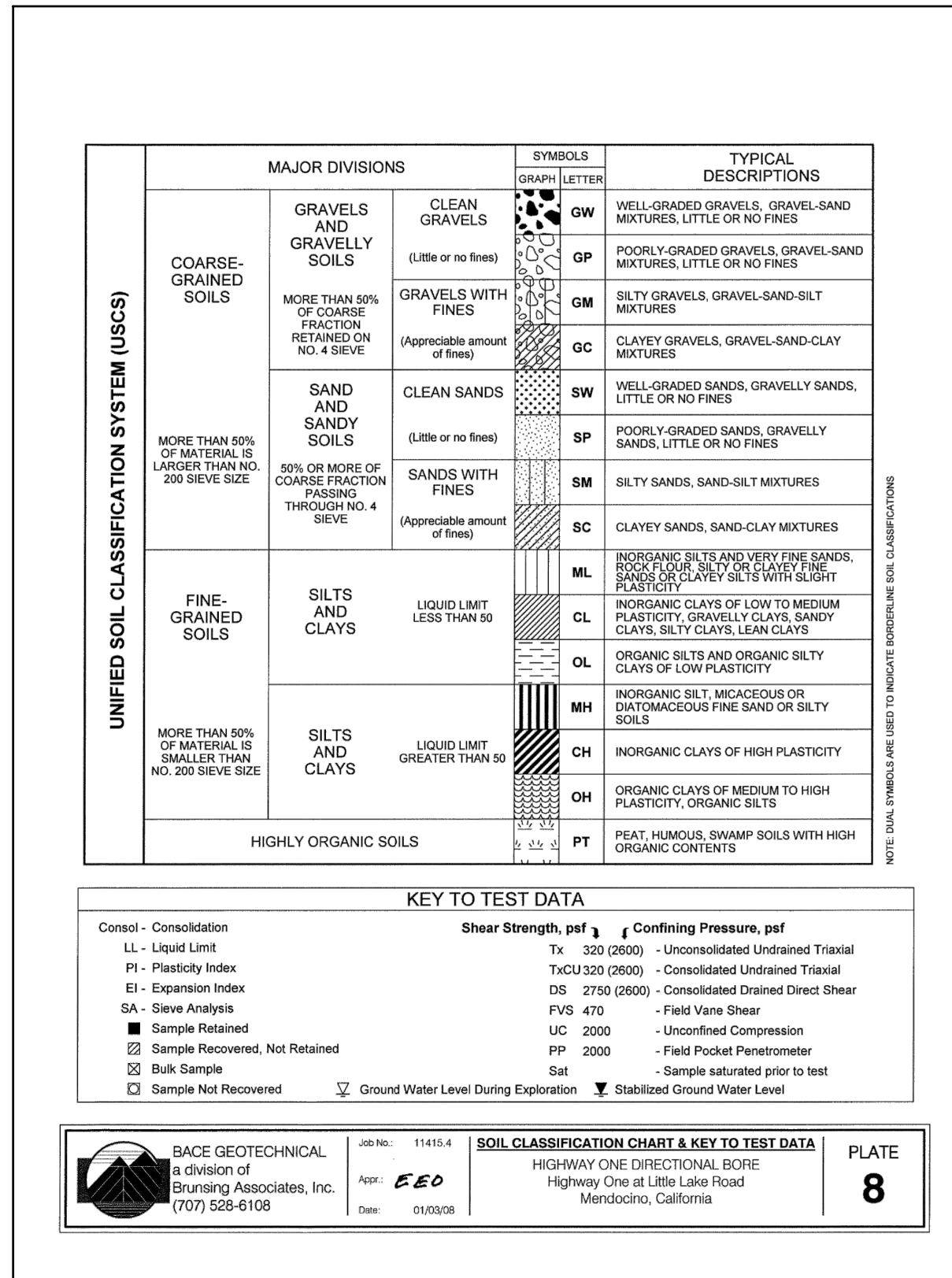
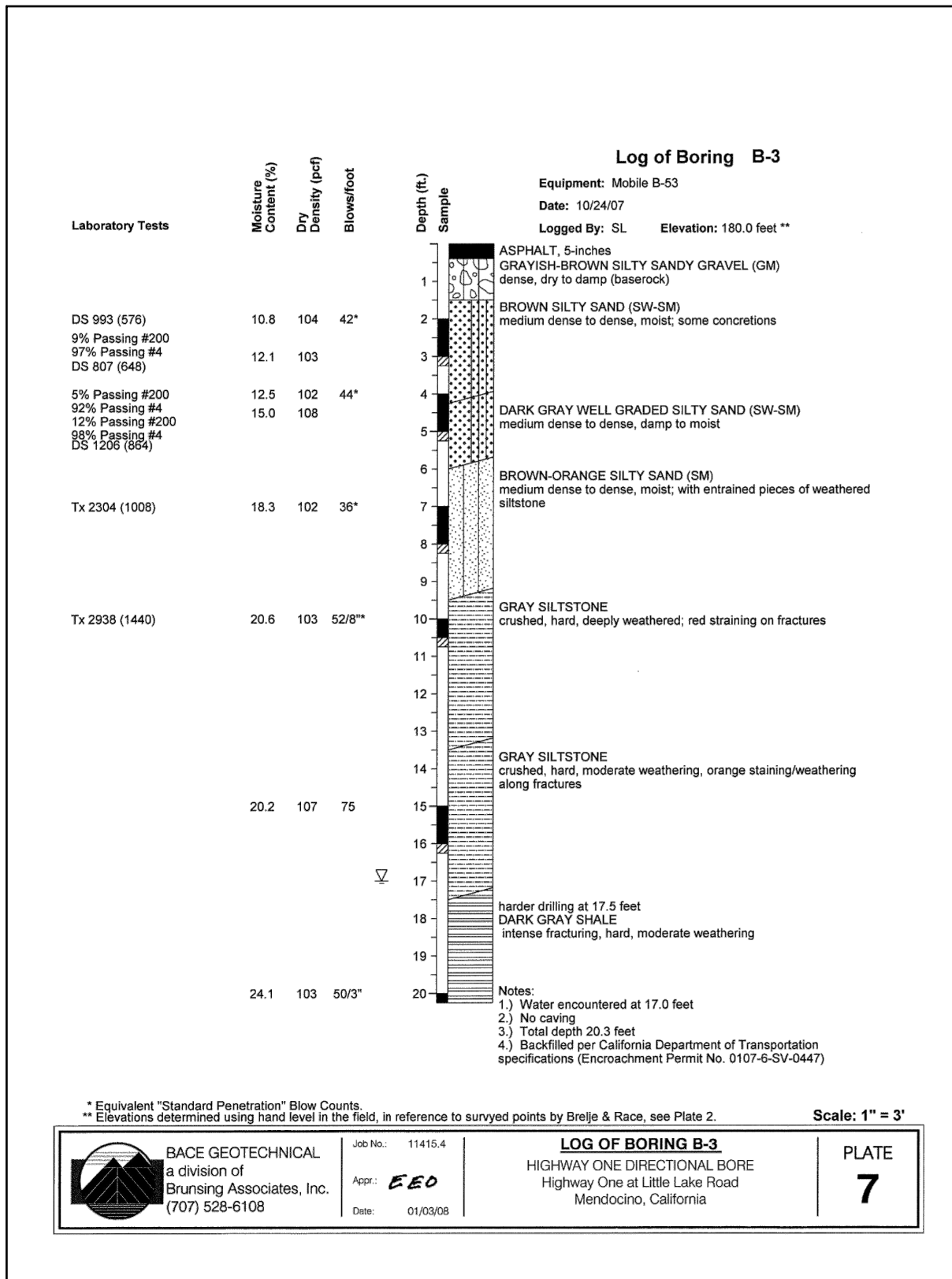
Drawn <b>DAGUAS C. BACH</b>	Designer <b>L. HALONEN</b>
Drafting Check <b>L. HALONEN M. KENNEDY</b>	Design Check <b>M. KENNEDY</b>
Project Manager <b>M. KENNEDY</b>	Date <b>MARCH 2026</b>
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Client <b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b>	Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b>
Title <b>HYRAULIC PROFILE</b>	
Project No. <b>12619547</b>	Original Size <b>ANSI D</b>
Drawing No. <b>G-005</b>	
Sheet <b>05</b>	of <b>53</b>



**GENERAL NOTES**

1. A GEOTECHNICAL INVESTIGATION REPORT FOR THE TANK SITE, DATED JANUARY 14, 2026, WAS PREPARED BY SHN CONSULTING ENGINEERS AND GEOLOGISTS, INC. THIS REPORT IS AVAILABLE AS A REFERENCE DOCUMENT.
2. GEOTECHNICAL INVESTIGATION REPORT FOR THE TRENCHLESS PIPELINE CROSSING UNDER STATE ROUTE 1 WAS PREPARED BY CRAWFORD AND ASSOCIATES, INC., DATED SEPTEMBER 29, 2021. A COPY OF THIS REPORT IS INCLUDED WITH THE TECHNICAL SPECIFICATIONS
3. THE GEOTECHNICAL BORING LOGS AND OTHER INFORMATION INCLUDED ON THIS DRAWING ARE PART OF THE CONSTRUCTION CONTRACT DOCUMENTS.
4. SEE CIVIL DRAWINGS FOR APPROXIMATE SOIL BORING LOCATIONS.



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 No. Issue Drawn Approved Date  
 CB MK 3/25/2026

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 Designer: L. HALONEN  
 Drafting Check: L. HALONEN, M. KENNEDY  
 Design Check: M. KENNEDY  
 Project Manager: M. KENNEDY  
 Date: MARCH 2026  
 Scale: AS SHOWN

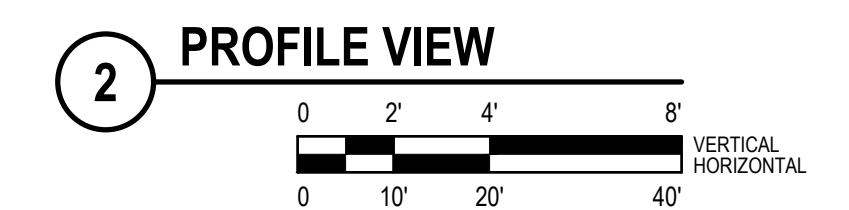
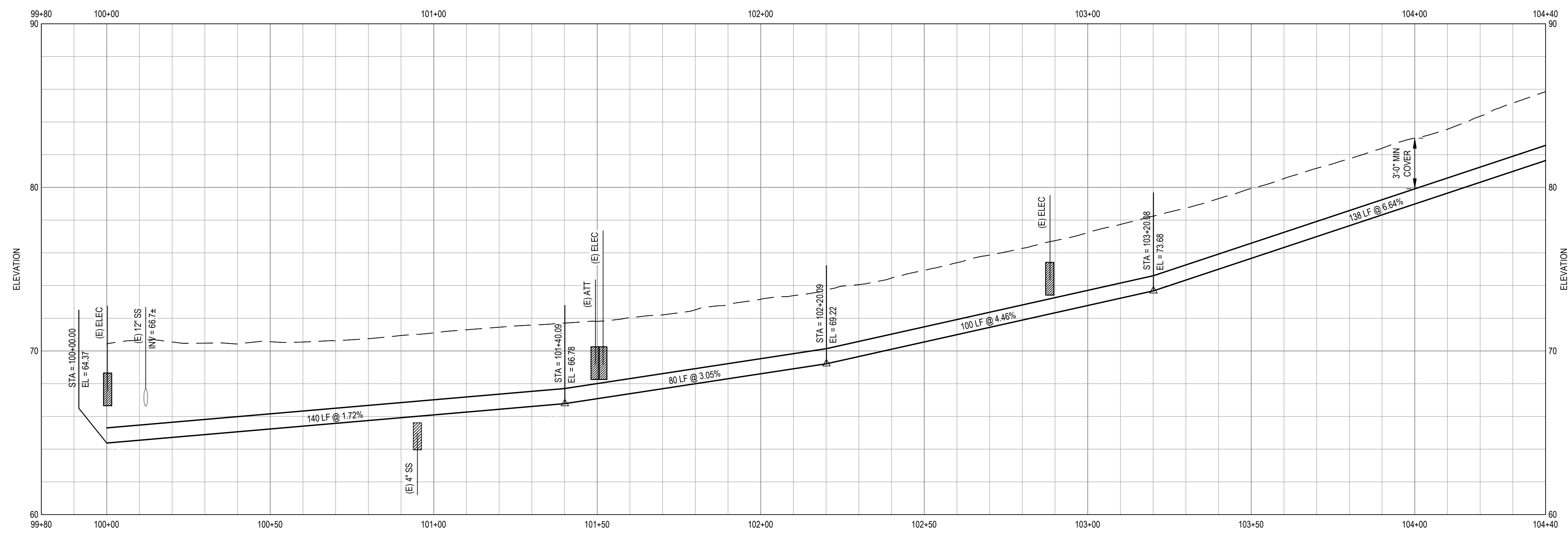
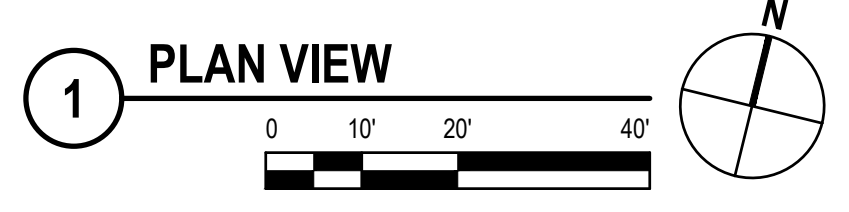
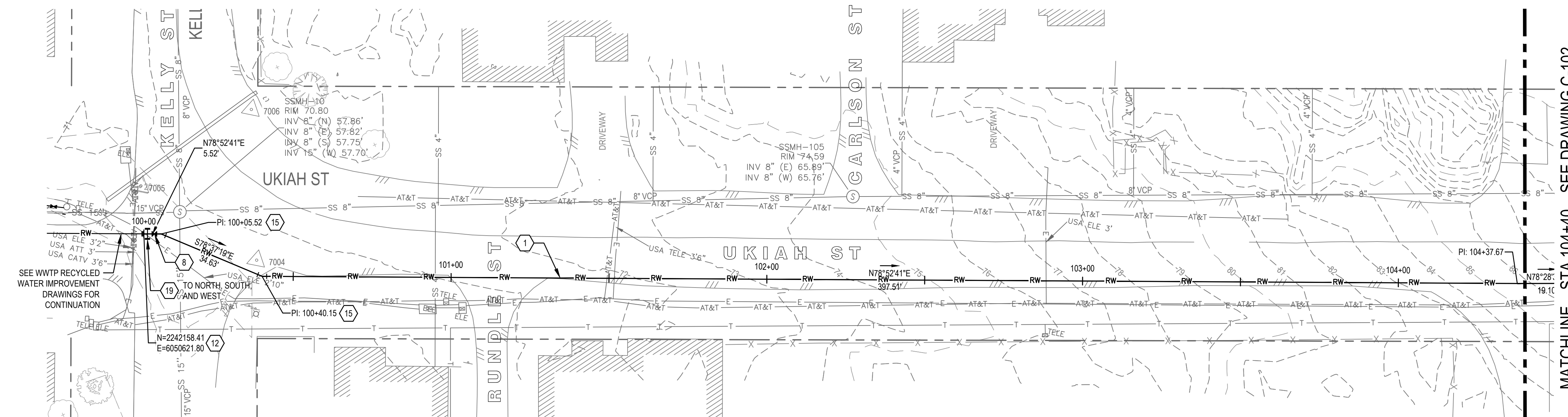
Client: MENDOCINO CITY COMMUNITY SERVICES DISTRICT  
 Project: RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS  
 Title: GEOTECHNICAL BORING LOGS AND SOIL DESCRIPTIONS  
 Project No.: 12619547  
 Original Size: ANSI D  
 Drawing No.: G-007  
 Sheet 07 of 53

**SHEET GENERAL NOTES**

1. LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE OWNER AND UNDERGROUND SERVICES ALERT (800) 227-2600 OR 811 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION AND SHALL POthOLE FOR EXACT LOCATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES.
2. THE MINIMUM ALLOWABLE PIPE COVER OVER ALL PIPES 4" NOMINAL DIAMETER AND LARGER SHALL BE 36" AS MEASURED FROM FINISH GRADE TO THE TOP OF THE PIPE.
3. PROVIDE A MINIMUM OF 12" VERTICAL CLEARANCE BETWEEN (E) WATER UTILITY AND (N) RECYCLED WATER MAIN. BACKFILL BETWEEN UTILITIES WITH CONTROLLED DENSITY FILL SLURRY, MIN 5' FROM CROSSING EACH WAY. PROVIDE A MINIMUM OF 6" SAND AROUND UTILITIES IF USING CONTROLLED DENSITY FILL SLURRY IN ACCORDANCE WITH MENDOT STD NO. A60A AND A60B.
4. PROVIDE A MINIMUM OF 6" VERTICAL CLEARANCE BETWEEN (E) UNDERGROUND SEWER AND (N) RECYCLED WATER MAIN. PROVIDE A MINIMUM OF 12" OF VERTICAL CLEARANCE BETWEEN (E) POWER, TELECOMMUNICATIONS, AND GAS UTILITIES AND (N) RECYCLED WATER MAIN. PROVIDE A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN (E) STORM DRAINS AND (N) RECYCLED WATER MAIN.
5. THE MINIMUM ALLOWABLE RADIUS ON 10" NOMINAL DIAMETER PIPE SHALL BE 300 FEET. CURVATURE OF THE PIPE SHALL BE ACCOMPLISHED THROUGH LONGITUDINAL BENDING OF THE PIPE BARREL. DEFLECTION OF JOINTS IS NOT ALLOWED.
6. PRIOR TO BACKFILLING, VERIFY THAT THE MANUFACTURER'S ASSEMBLY MARK ON THE PIPE JOINT IS FLUSH WITH THE END OF THE BELL.
7. ALL ELBOWS, BENDS, TEES, VALVES, AND OTHER DUCTILE IRON FITTINGS INSTALLED ON THE RECYCLED WATER PIPELINE SHALL BE MECHANICALLY RESTRAINED AS SHOWN ON DETAIL 3 ON SHEET C-505.
8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
4. NOT USED.
5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
6. (N) 1" PVC SCH 80 RECYCLED WATER PIPE.
7. (N) 10" FPVC DR 18 RECYCLED WATER MAIN IN 14" FPVC DR 18 CASING INSTALLED VIA HDD. SEE PROFILE.
8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 2 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
11. (N) TEE, SIZE PER ADJOINING PIPE, UNO.
12. (N) CROSS, SIZE PER ADJOINING PIPE, UNO.
13. (N) 90° ELBOW, SIZE PER ADJOINING PIPE, UNO.
14. (N) 45° ELBOW, SIZE PER ADJOINING PIPE, UNO.
15. (N) 22.5° ELBOW, SIZE PER ADJOINING PIPE, UNO.
16. (N) 11.25° ELBOW, SIZE PER ADJOINING PIPE, UNO.
17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.



CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

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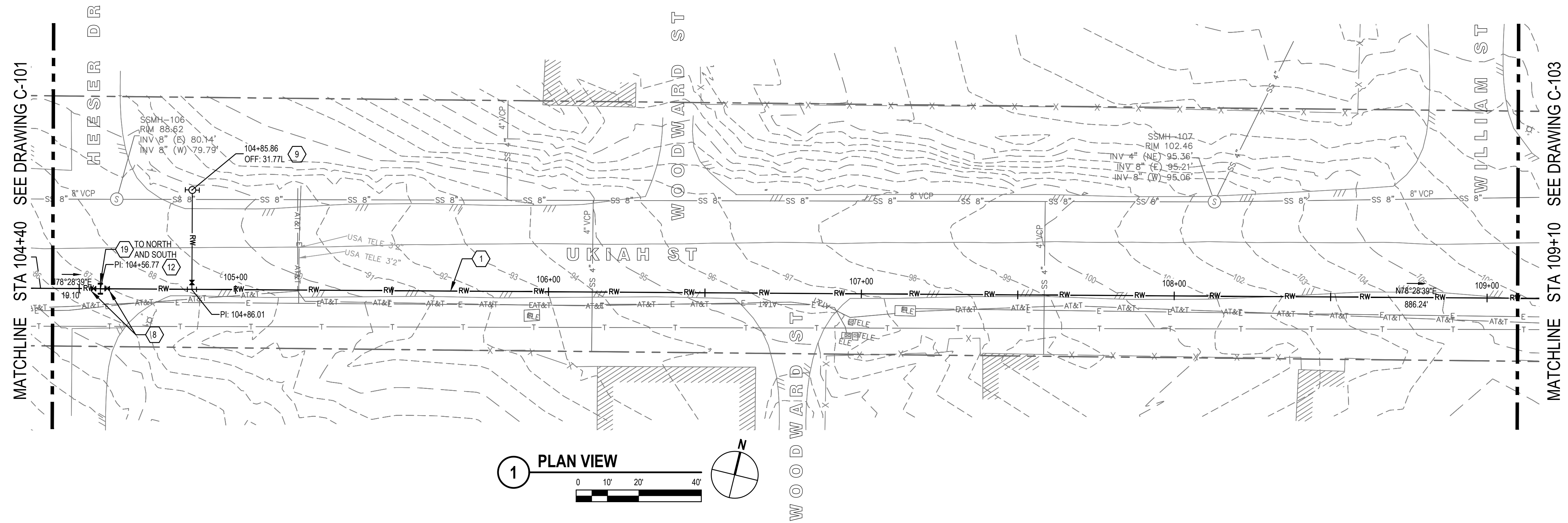
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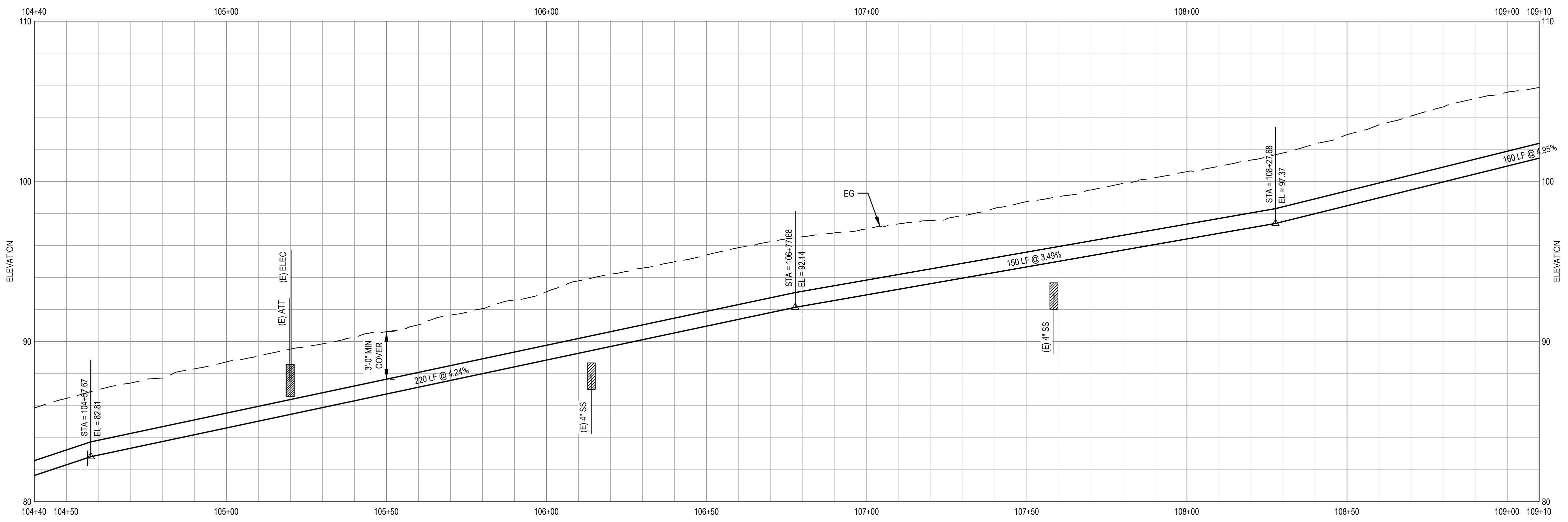
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 100+00 TO 104+40		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-101		
Sheet	08	of	53



**1 PLAN VIEW**



**2 PROFILE VIEW**

**SHEET GENERAL NOTES**

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8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
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8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 3 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-502.
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18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.

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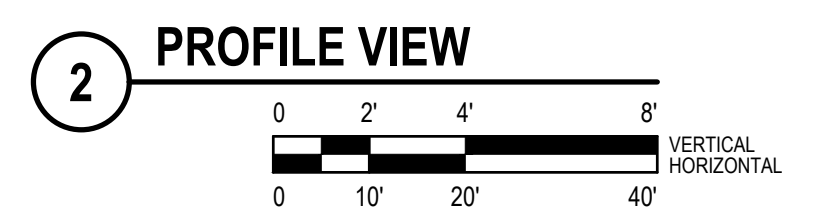
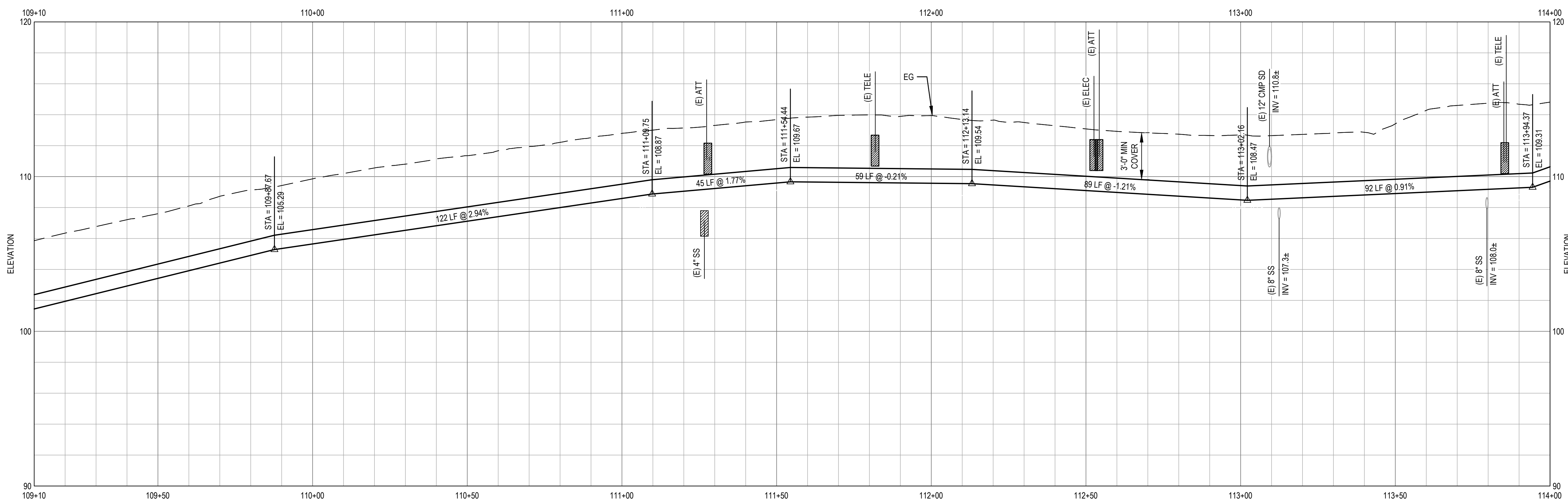
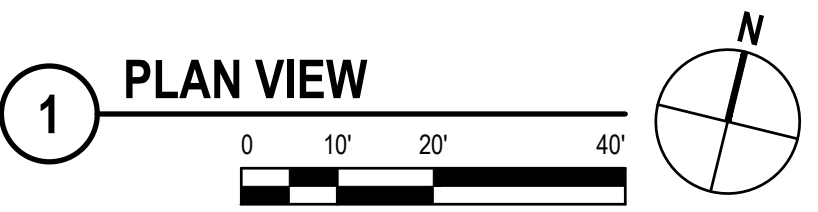
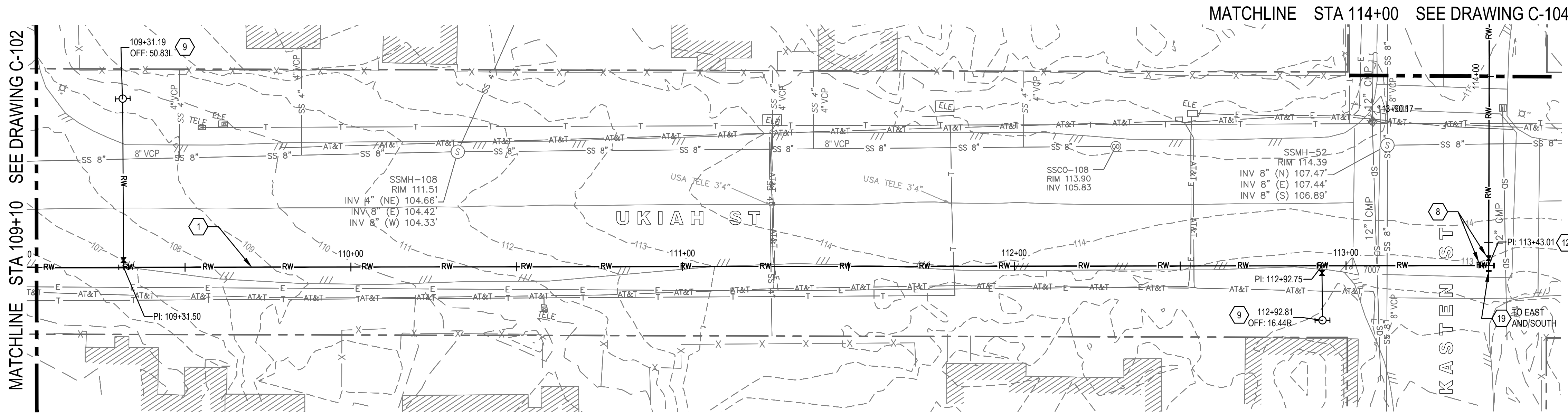
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT	
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	RECYCLED WATER LINE - STA 104+40 TO 109+10	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-102	
Sheet	09	of 53



**SHEET GENERAL NOTES**

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8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

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2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
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5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
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8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 2 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
11. (N) TEE, SIZE PER ADJOINING PIPE, UNO.
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17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
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CONFORMED DRAWINGS		CB	MK	3/25/2026
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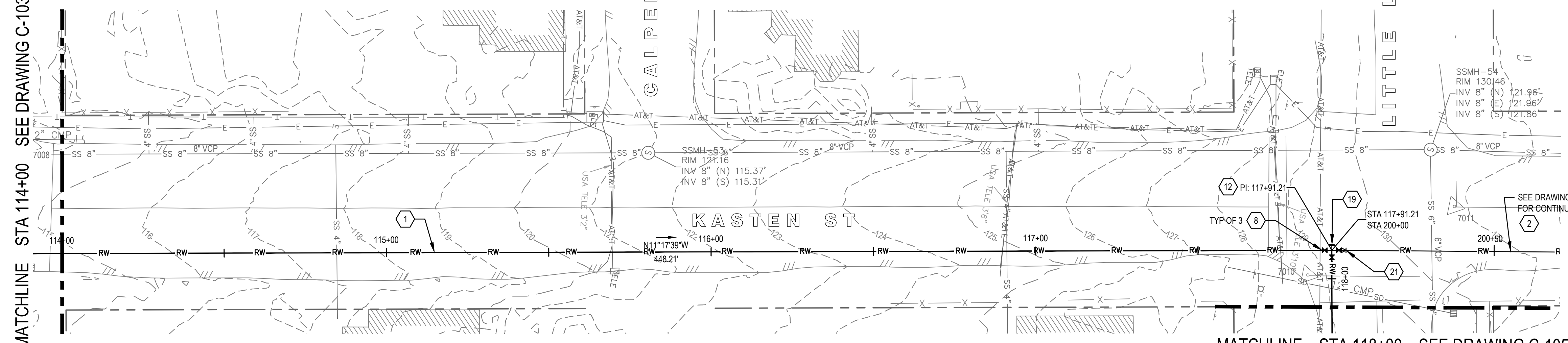


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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 109+10 TO 114+00		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-103		
Sheet	10 of 53		

MATCHLINE STA 114+00 SEE DRAWING C-103



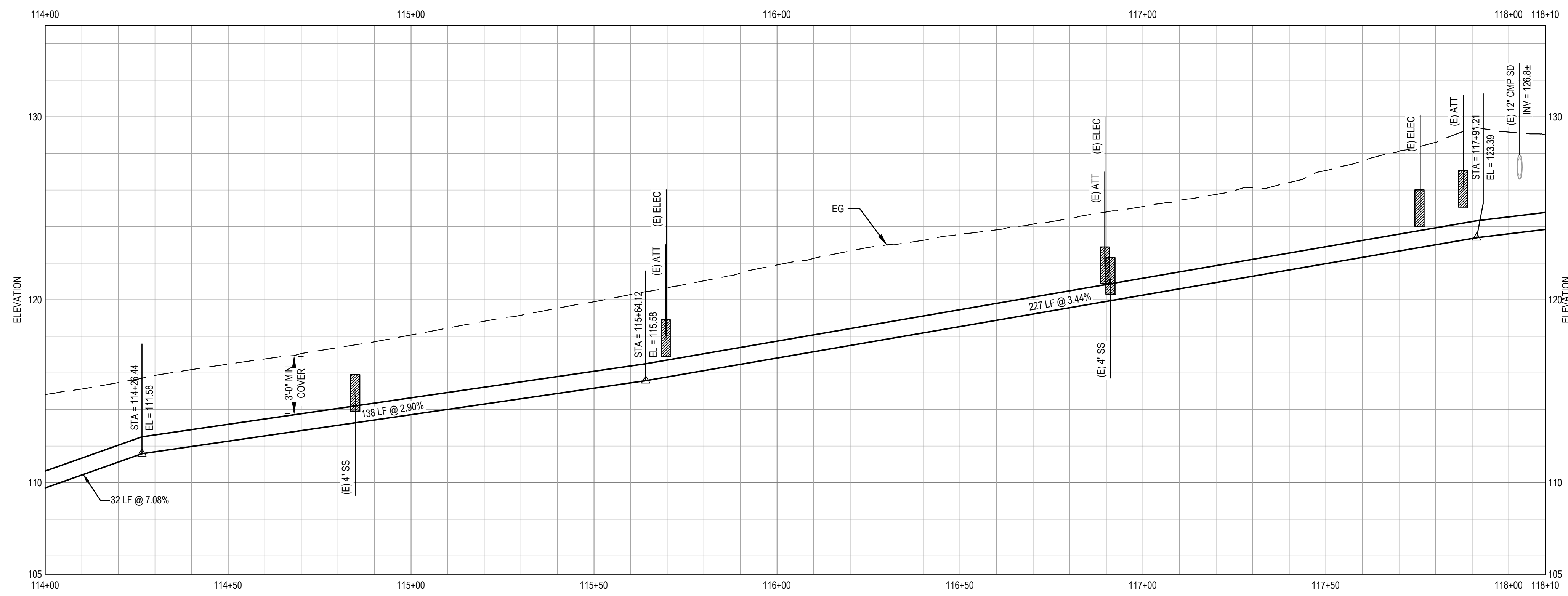
**1 PLAN VIEW**  
0 10' 20' 40'

**SHEET GENERAL NOTES**

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2. THE MINIMUM ALLOWABLE PIPE COVER OVER ALL PIPES 4" NOMINAL DIAMETER AND LARGER SHALL BE 36" AS MEASURED FROM FINISH GRADE TO THE TOP OF THE PIPE.
3. PROVIDE A MINIMUM OF 12" VERTICAL CLEARANCE BETWEEN (E) WATER UTILITY AND (N) RECYCLED WATER MAIN. BACKFILL BETWEEN UTILITIES WITH CONTROLLED DENSITY FILL SLURRY, MIN 5' FROM CROSSING EACH WAY. PROVIDE A MINIMUM OF 6" SAND AROUND UTILITIES IF USING CONTROLLED DENSITY FILL SLURRY IN ACCORDANCE WITH MENDOT STD NO. A60A AND A60B.
4. PROVIDE A MINIMUM OF 6" VERTICAL CLEARANCE BETWEEN (E) UNDERGROUND SEWER AND (N) RECYCLED WATER MAIN. PROVIDE A MINIMUM OF 12" OF VERTICAL CLEARANCE BETWEEN (E) POWER, TELECOMMUNICATIONS, AND GAS UTILITIES AND (N) RECYCLED WATER MAIN. PROVIDE A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN (E) STORM DRAINS AND (N) RECYCLED WATER MAIN.
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6. PRIOR TO BACKFILLING, VERIFY THAT THE MANUFACTURER'S ASSEMBLY MARK ON THE PIPE JOINT IS FLUSH WITH THE END OF THE BELL.
7. ALL ELBOWS, BENDS, TEES, VALVES, AND OTHER DUCTILE IRON FITTINGS INSTALLED ON THE RECYCLED WATER PIPELINE SHALL BE MECHANICALLY RESTRAINED AS SHOWN ON DETAIL 3 ON SHEET C-505.
8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
4. NOT USED.
5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
6. (N) 1" PVC SCH 80 RECYCLED WATER PIPE.
7. (N) 10" FPVC DR 18 RECYCLED WATER MAIN IN 14" FPVC DR 18 CASING INSTALLED VIA HDD. SEE PROFILE.
8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 2 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
11. (N) TEE, SIZE PER ADJOINING PIPE, UNO.
12. (N) CROSS, SIZE PER ADJOINING PIPE, UNO.
13. (N) 90° ELBOW, SIZE PER ADJOINING PIPE, UNO.
14. (N) 45° ELBOW, SIZE PER ADJOINING PIPE, UNO.
15. (N) 22.5° ELBOW, SIZE PER ADJOINING PIPE, UNO.
16. (N) 11.25° ELBOW, SIZE PER ADJOINING PIPE, UNO.
17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.



**2 PROFILE VIEW**  
0 2' 4' 8' VERTICAL  
0 10' 20' 40' HORIZONTAL

CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

Bar is one inch on original size sheet  
0 1"

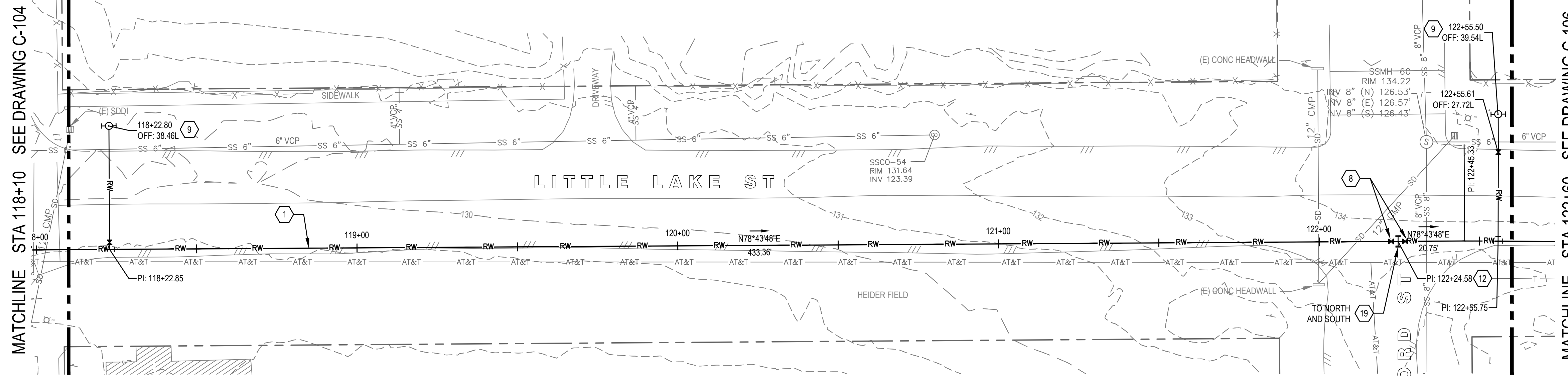
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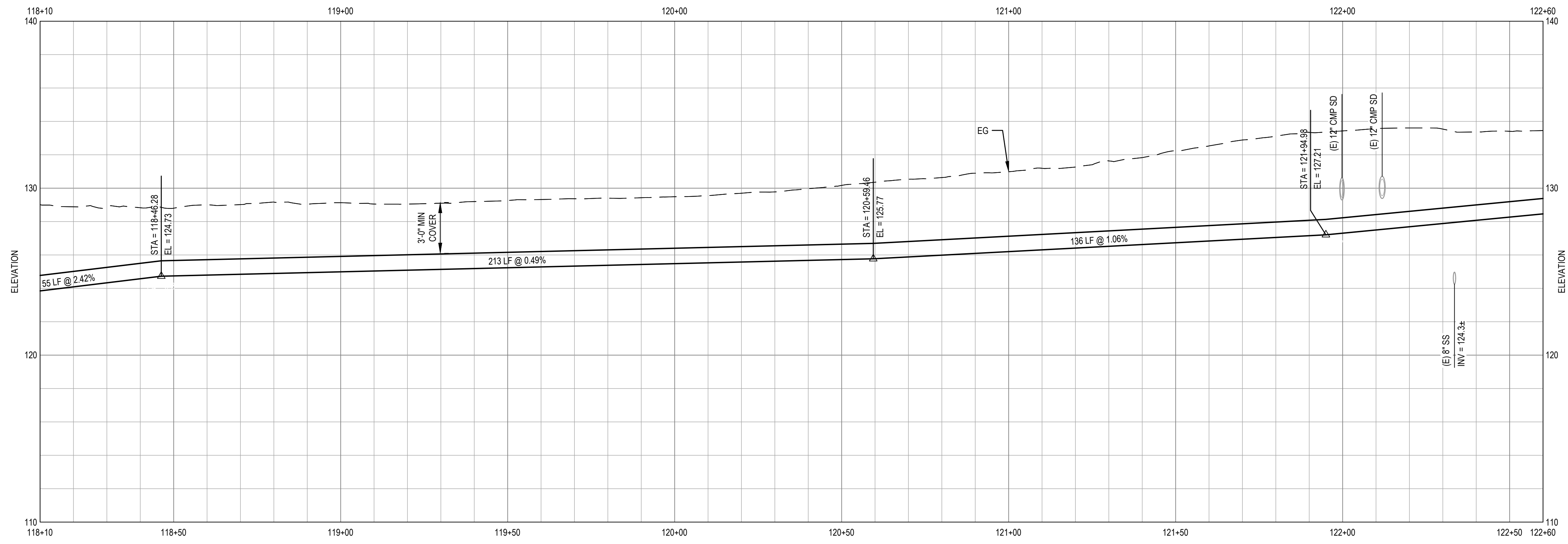
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 114+00 TO 118+00		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-104		
Sheet	11 of 53		



**1 PLAN VIEW**  
 0 10' 20' 40'



**2 PROFILE VIEW**  
 0 2' 4' 8'  
 0 10' 20' 40'

**SHEET GENERAL NOTES**

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9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
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21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.

CONFORMED DRAWINGS				CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date		

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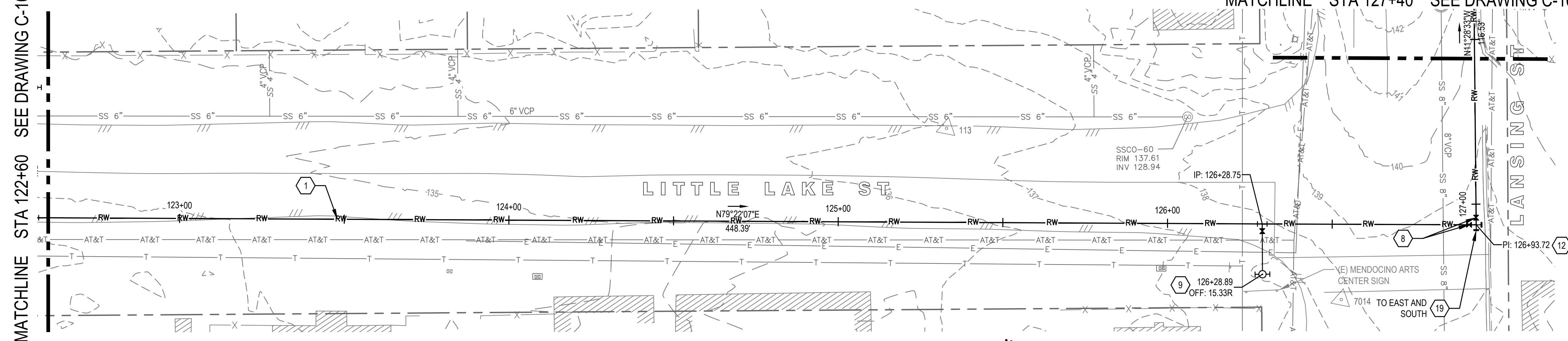
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
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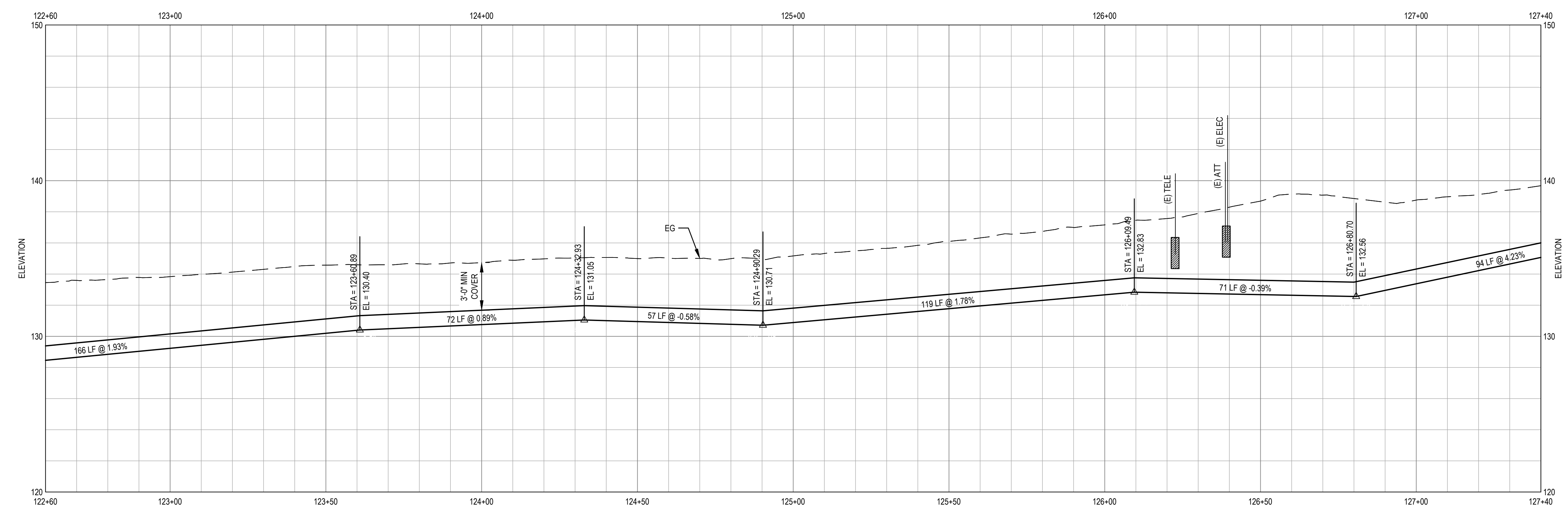
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 118+10 TO 122+60		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-105		
Sheet	12	of	53

MATCHLINE STA 122+60 SEE DRAWING C-105

MATCHLINE STA 127+40 SEE DRAWING C-107



1 PLAN VIEW



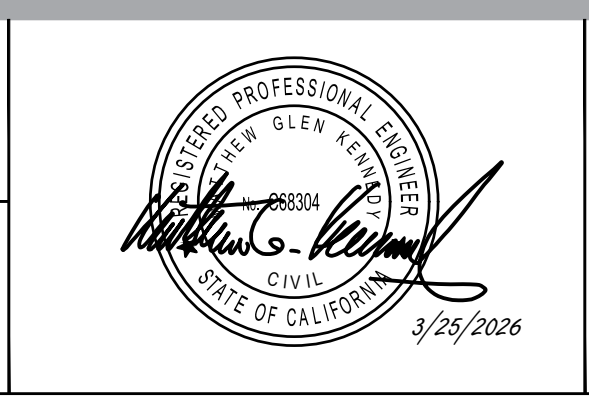
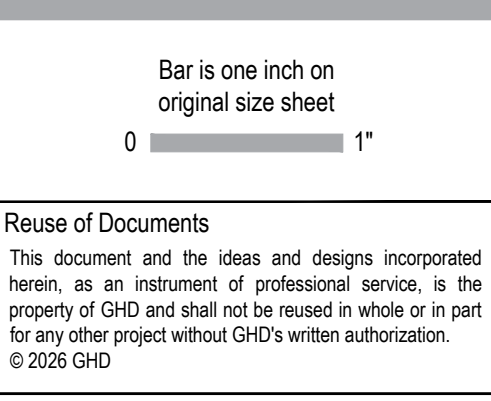
2 PROFILE VIEW

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  9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
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  18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
  19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
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CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	RECYCLED WATER LINE - STA 122+60 TO 127+40
Project No.	12619547
Original Size	ANSI D
Drawing No.	C-106

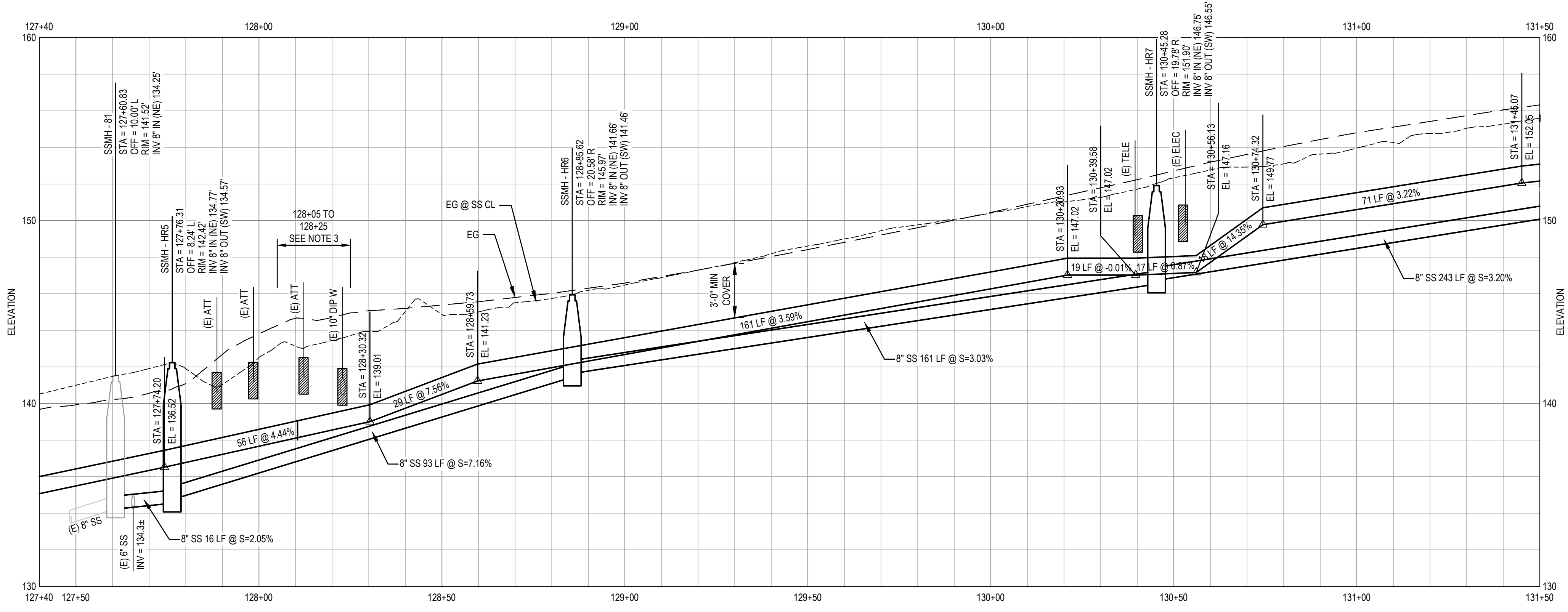
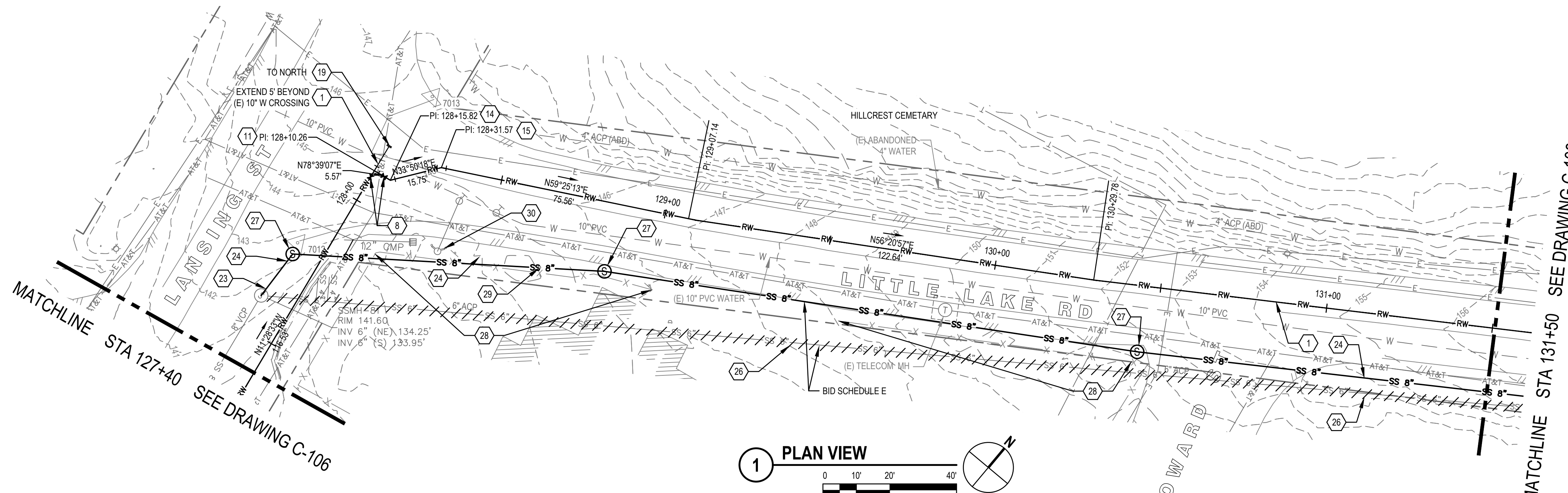
Sheet	13 of 53
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22. REMOVE (E) 8" SS MAIN. INSTALL (N) 8" PVC SS MAIN IN THE SAME ALIGNMENT. (BID SCHEDULE E)
23. CONNECT TO (E) SSMH. SEE DETAIL 5 ON DRAWING C-505. (BID SCHEDULE E)
24. PROVIDE (N) 8" PVC SS MAIN. (BID SCHEDULE E)
25. RECONNECT (E) SS LATERAL. USING INSERTA TEE FITTING, OR APPROVED EQUAL. ENSURE A WATERTIGHT CONNECTION. (BID SCHEDULE E)
26. ABANDON (E) SS MAIN. REMOVE WHERE IN CONFLICT WITH IMPROVEMENTS. SEE DETAIL 4 ON DRAWING C-501. (BID SCHEDULE E)
27. PROVIDE (N) SSMH. SEE DETAIL 5 ON DRAWING C-505. (BID SCHEDULE E)
28. REMOVE AND REINSTALL (E) PICKET FENCE AS NECESSARY TO CONSTRUCT (N) SS MAIN. COORDINATE WITH DISTRICT AND ADJACENT PROPERTY OWNER. (BID SCHEDULE E)
29. REMOVE (E) TREE AS NECESSARY TO CONSTRUCT (N) SS MAIN. COORDINATE WITH DISTRICT AND ADJACENT PROPERTY OWNER. (BID SCHEDULE E)
30. REMOVE (E) FIRE HYDRANT AND BOLLARDS AS NECESSARY TO CONSTRUCT (N) SS MAIN. REINSTALL (E) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502 FOR RE-INSTALLATION DETAILS. (BID SCHEDULE E)

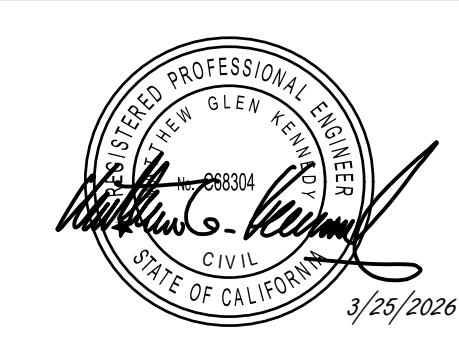


**2 PROFILE VIEW**  
 0 2' 4' 8'  
 0 10' 20' 40'  
 VERTICAL HORIZONTAL

CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

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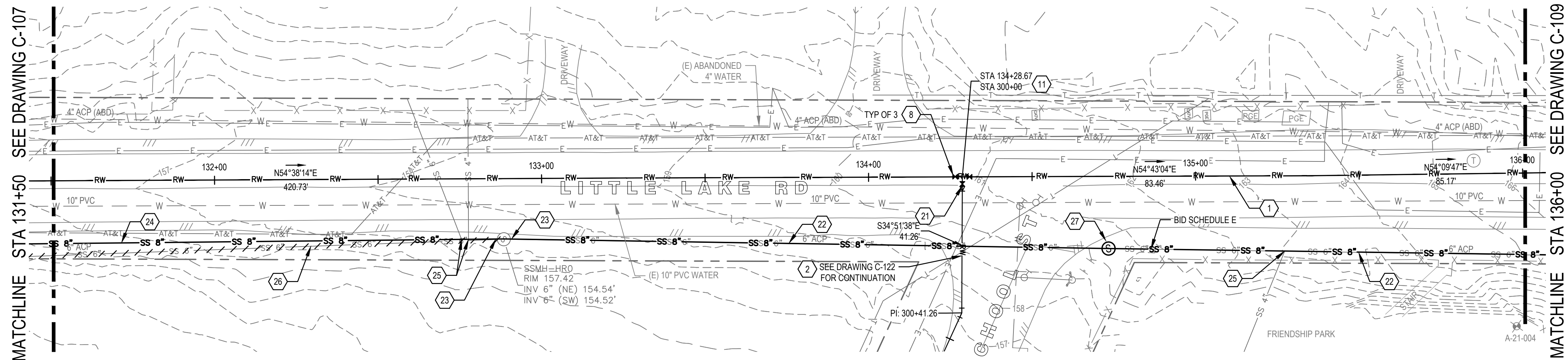
Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT	
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	RECYCLED WATER LINE - STA 127+40 TO 131+50	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-107	
Sheet	14 of 53	

**SHEET GENERAL NOTES**

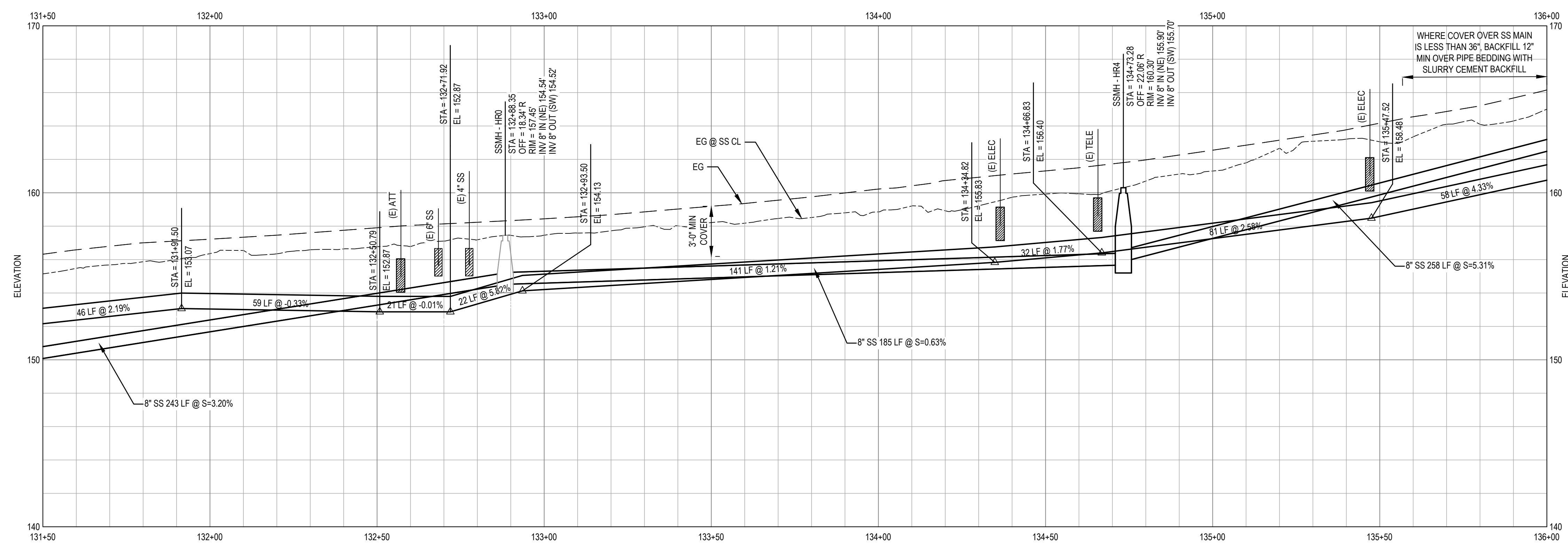
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6. PRIOR TO BACKFILLING, VERIFY THAT THE MANUFACTURER'S ASSEMBLY MARK ON THE PIPE JOINT IS FLUSH WITH THE END OF THE BELL.
7. ALL ELBOWS, BENDS, TEES, VALVES, AND OTHER DUCTILE IRON FITTINGS INSTALLED ON THE RECYCLED WATER PIPELINE SHALL BE MECHANICALLY RESTRAINED AS SHOWN ON DETAIL 3 ON SHEET C-505.
8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
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3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
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5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
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8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 2 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
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17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 1 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.
22. REMOVE (E) 6" SS MAIN. INSTALL (N) 8" PVC SS MAIN IN THE SAME ALIGNMENT. (BID SCHEDULE E)
23. CONNECT TO (E) SSMH. SEE DETAIL 5 ON DRAWING C-505. (BID SCHEDULE E)
24. PROVIDE (N) 8" PVC SS MAIN. (BID SCHEDULE E)
25. RECONNECT (E) SS LATERAL USING INSERTA TEE FITTING, OR APPROVED EQUAL. ENSURE A WATERTIGHT CONNECTION. (BID SCHEDULE E)
26. ABANDON (E) SS MAIN. REMOVE WHERE IN CONFLICT WITH IMPROVEMENTS. SEE DETAIL 4 ON DRAWING C-501. (BID SCHEDULE E)
27. PROVIDE (N) SSMH. SEE DETAIL 5 ON DRAWING C-505. (BID SCHEDULE E)



**1 PLAN VIEW**  
0 10' 20' 40'



**2 PROFILE VIEW**  
0 2' 4' 8' VERTICAL HORIZONTAL  
0 10' 20' 40'

CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

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0 1'

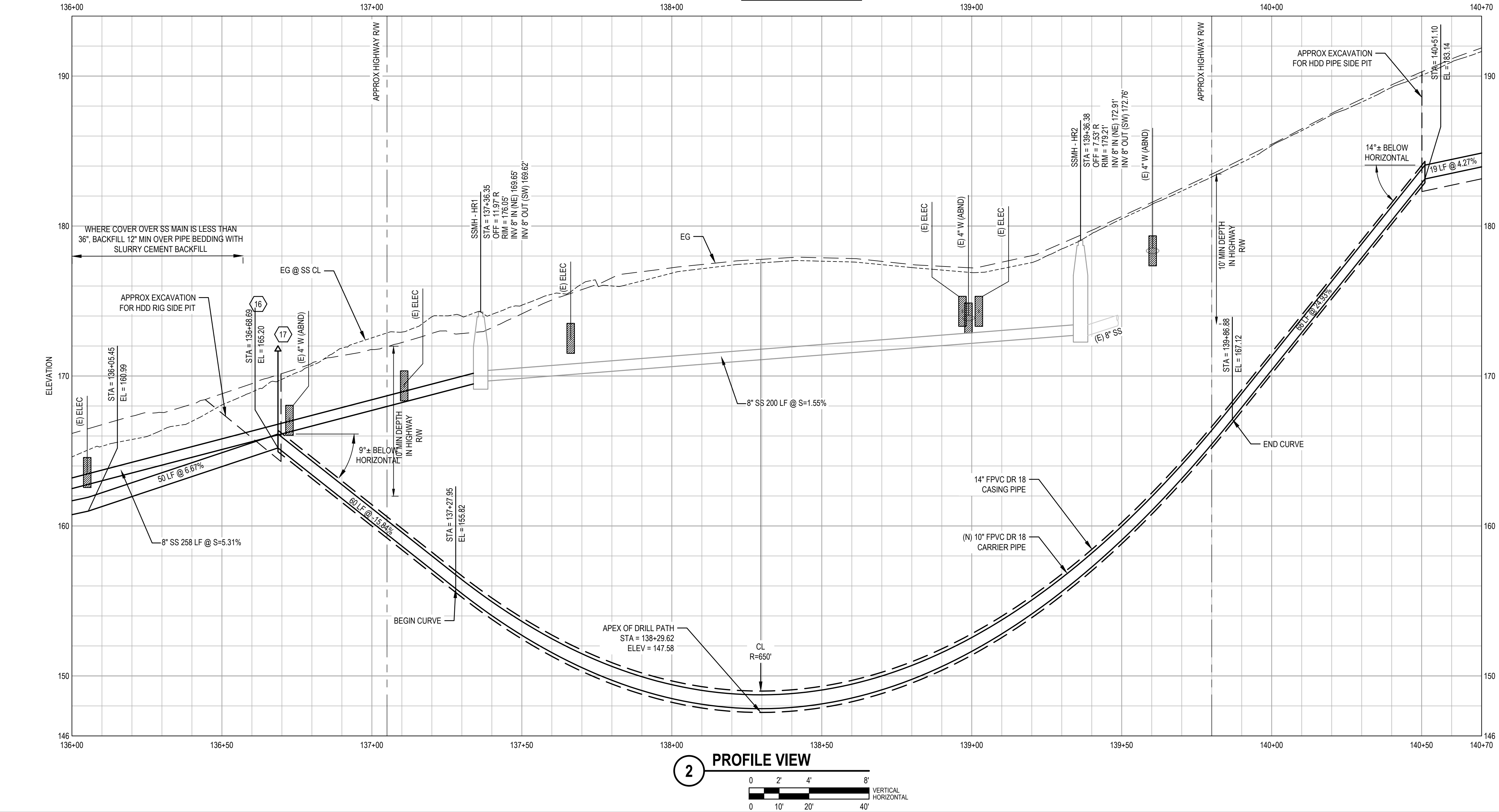
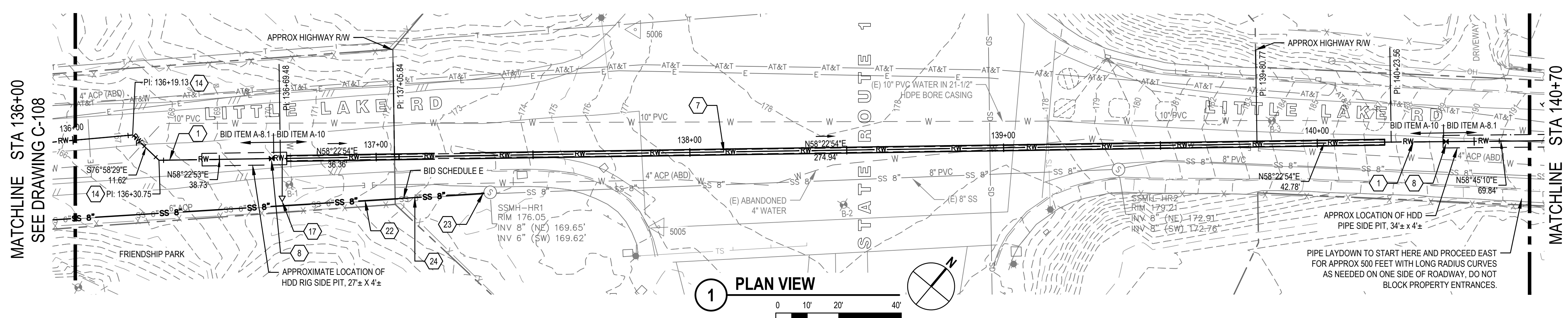
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Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	RECYCLED WATER LINE - STA 131+50 TO 136+00	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-108	
Sheet	16	of 53



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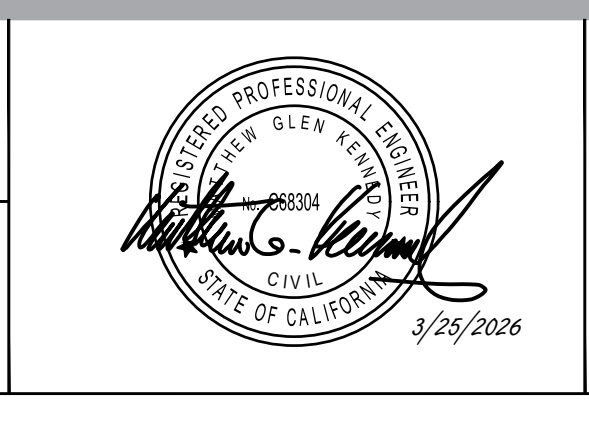
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  23. CONNECT TO (E) SSMH. SEE DETAIL 5 ON DRAWING C-505. (BID SCHEDULE E)
  24. TEMPORARILY REMOVE AND REPLACE (E) SERVICE METER AS NECESSARY TO CONSTRUCT REPLACEMENT SS MAIN (BID SCHEDULE E).

No.	Issue	Drawn	Approved	Date

CONFORMED DRAWINGS	CB	MK	3/25/2026
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Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 136+00 TO 140+70		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-109		
Sheet	16 of 53		

**SHEET GENERAL NOTES**

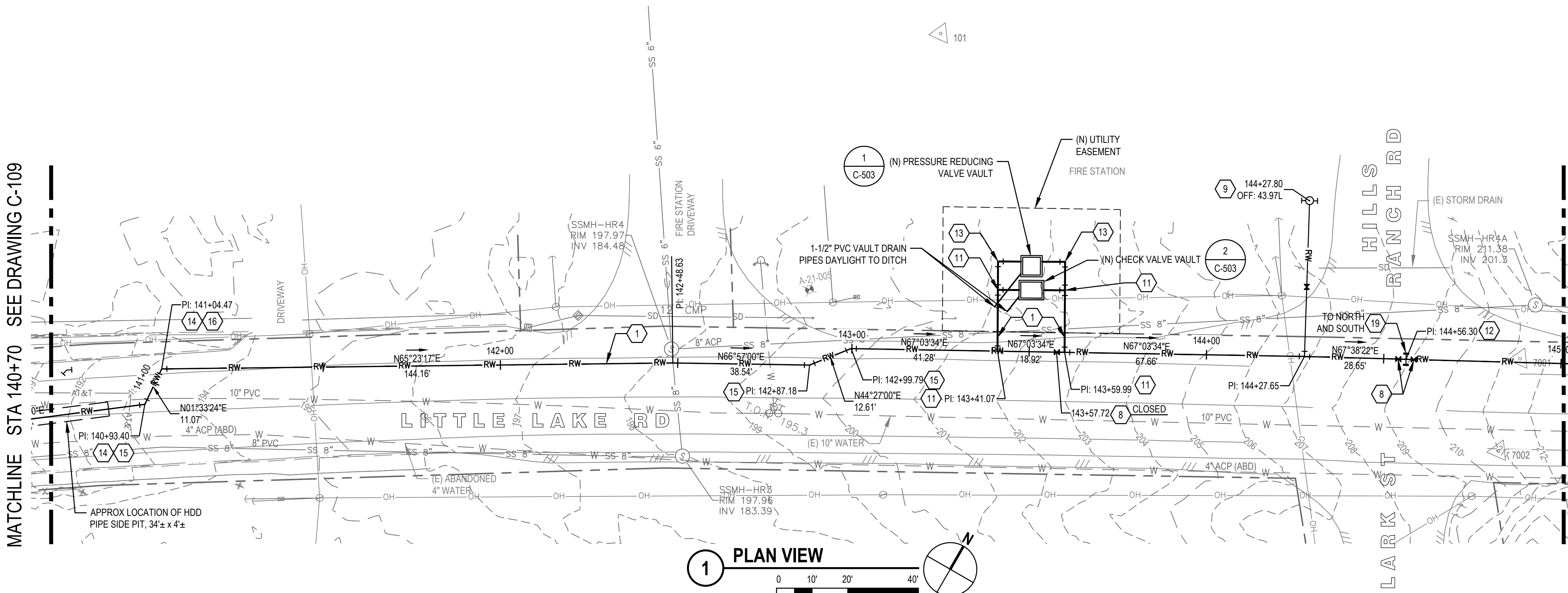
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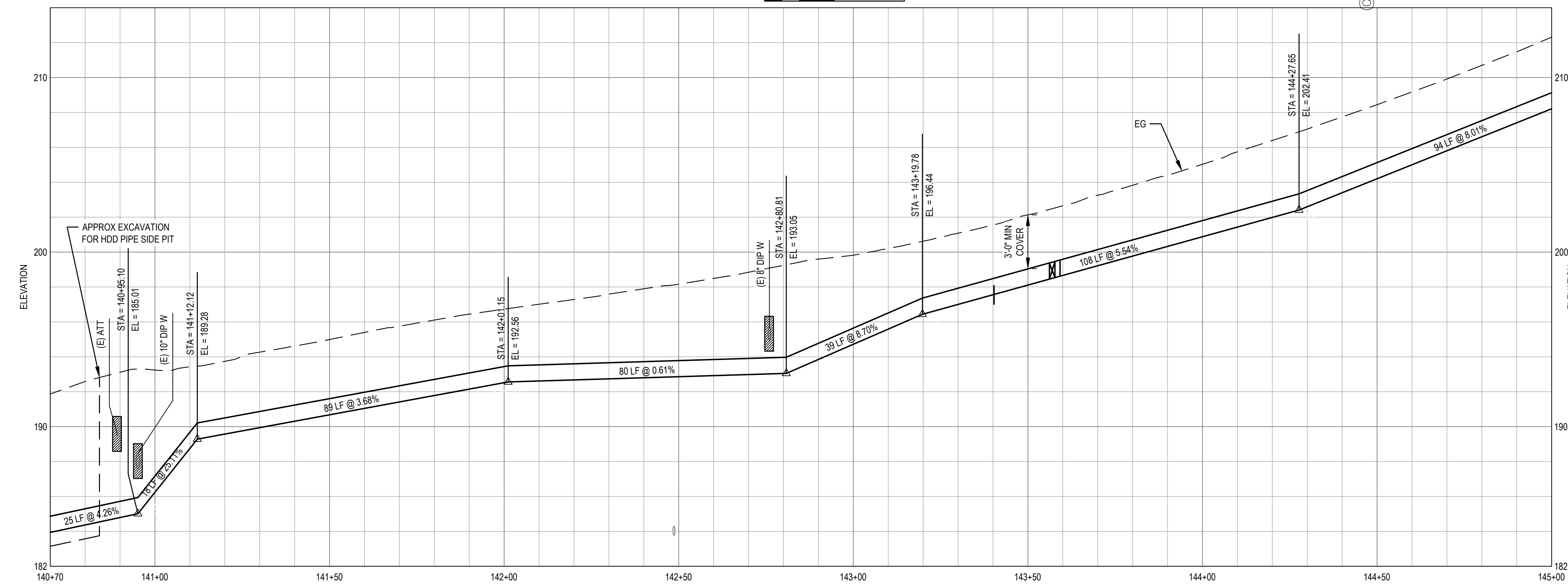
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MATCHLINE STA 140+70 SEE DRAWING C-109

MATCHLINE STA 145+00 SEE DRAWING C-111



**1 PLAN VIEW**  
0 10' 20' 40'

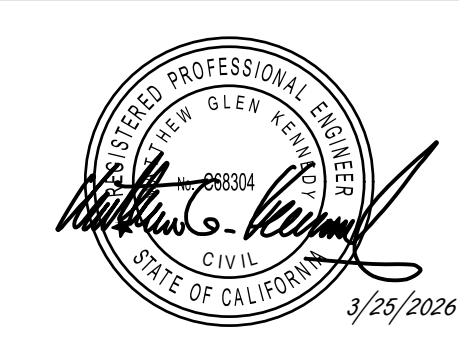


**2 PROFILE VIEW**  
0 2' 4' 8' VERTICAL  
0 10' 20' 40' HORIZONTAL

CONFORMED DRAWINGS				CB	MK	3/25/2026
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
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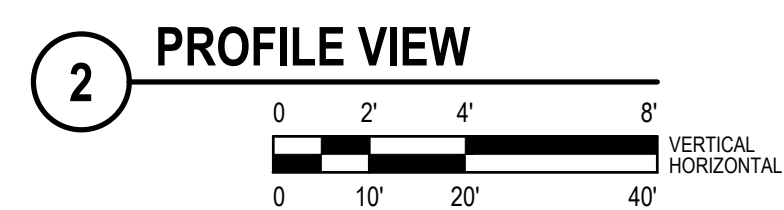
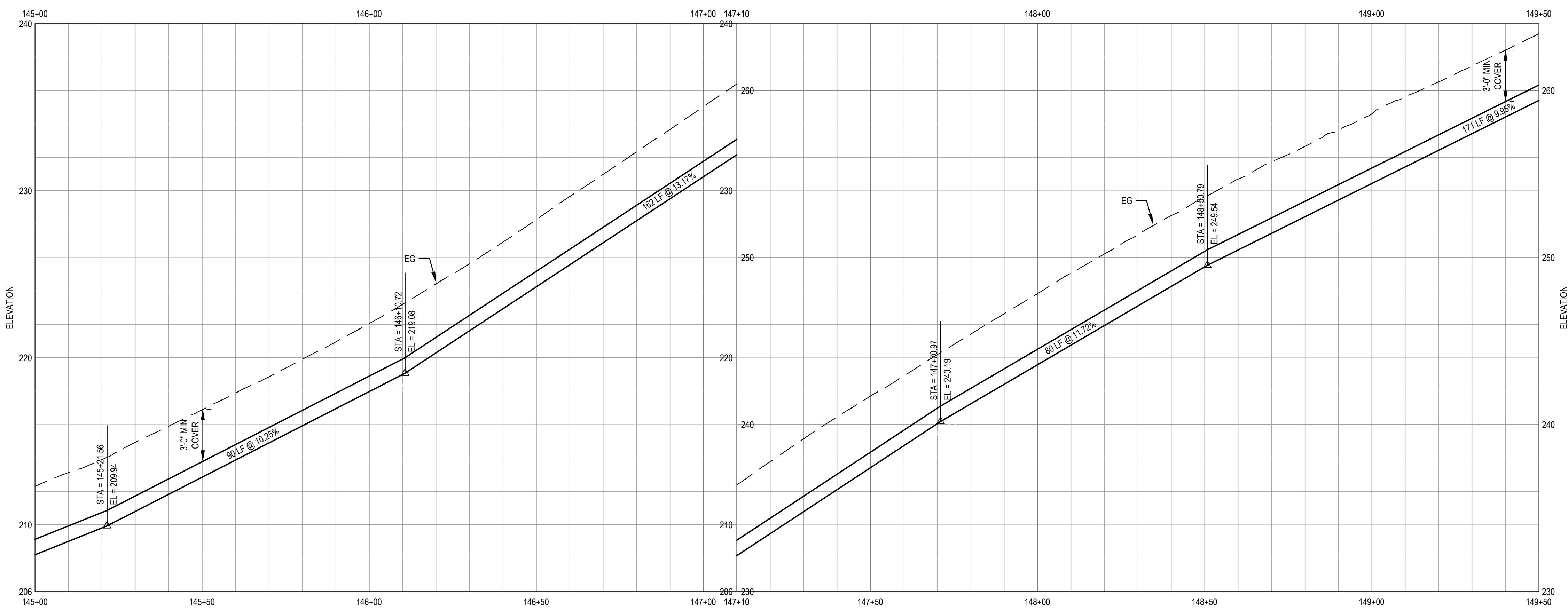
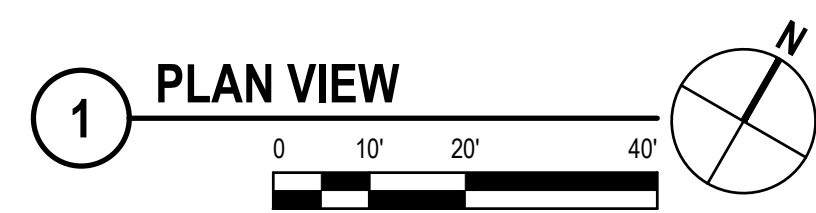
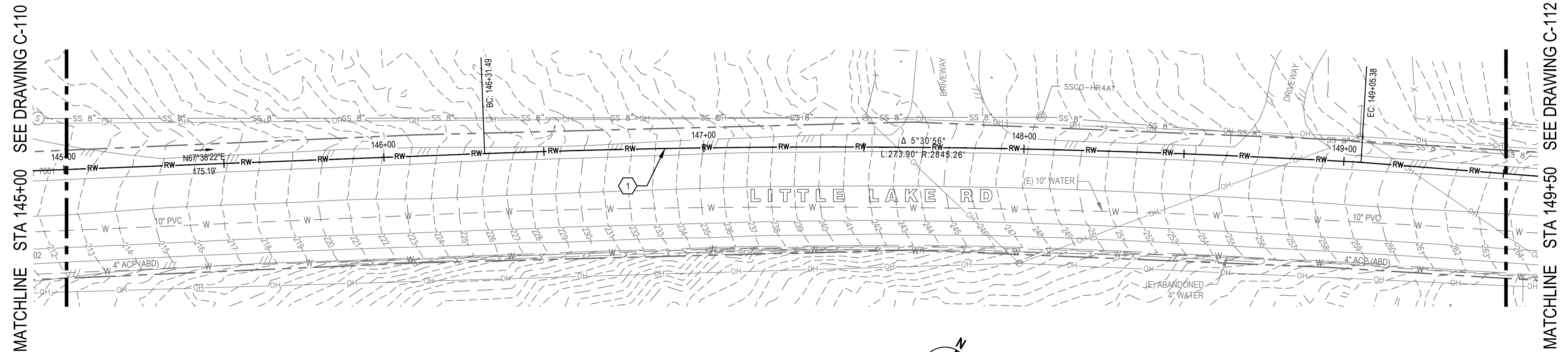
Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 140+70 TO 145+00		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-110		
Sheet	17 of 53		

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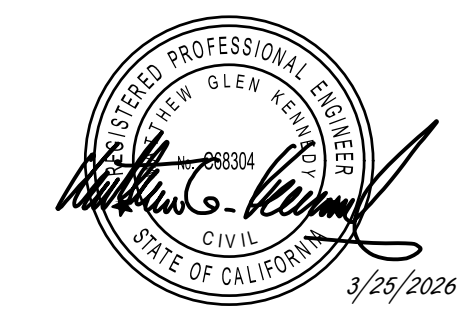
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Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-111	
Sheet	18	of 53

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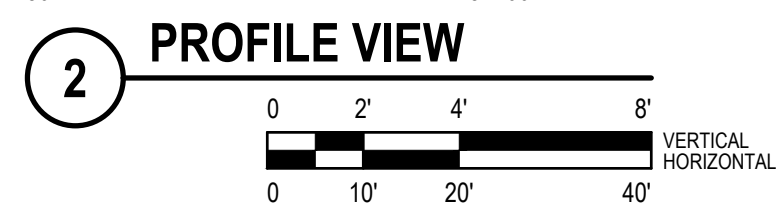
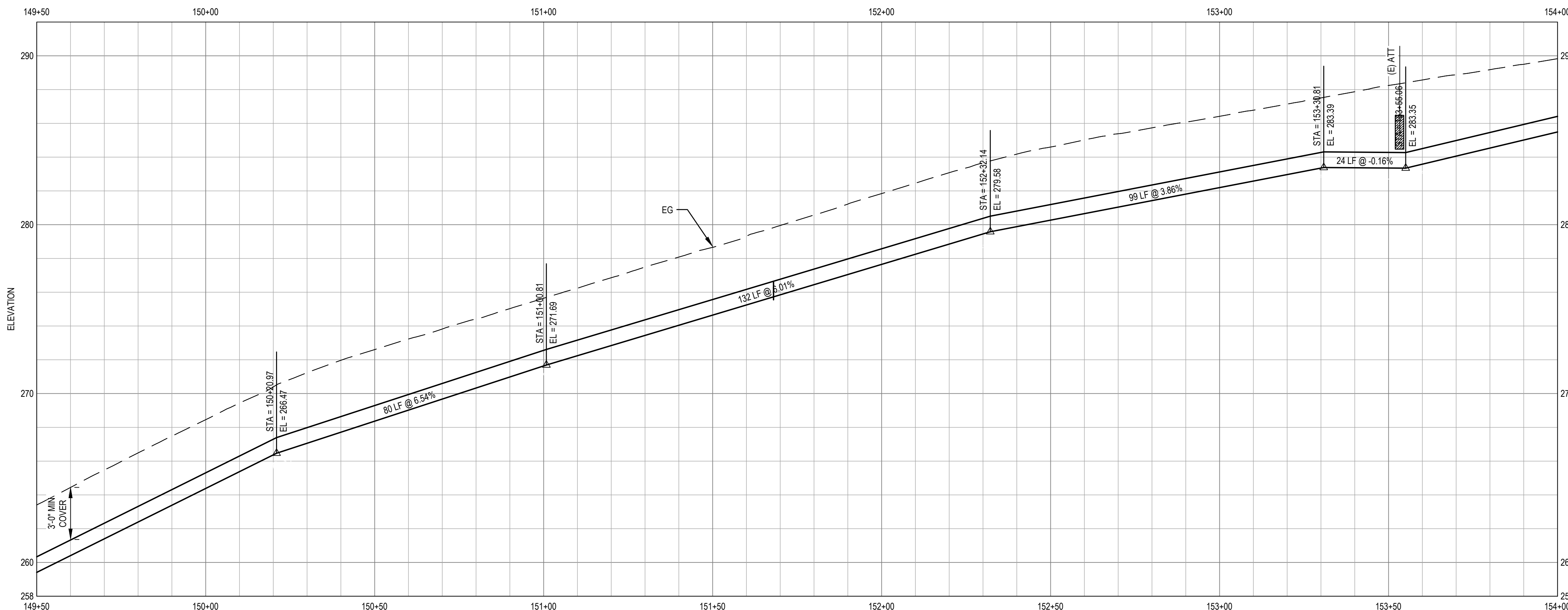
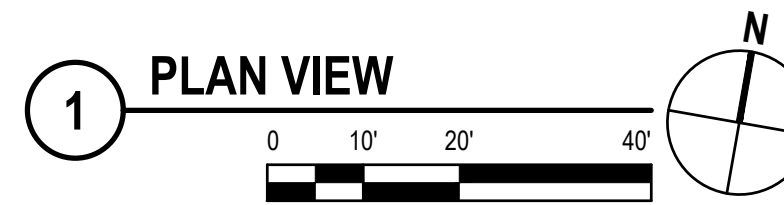
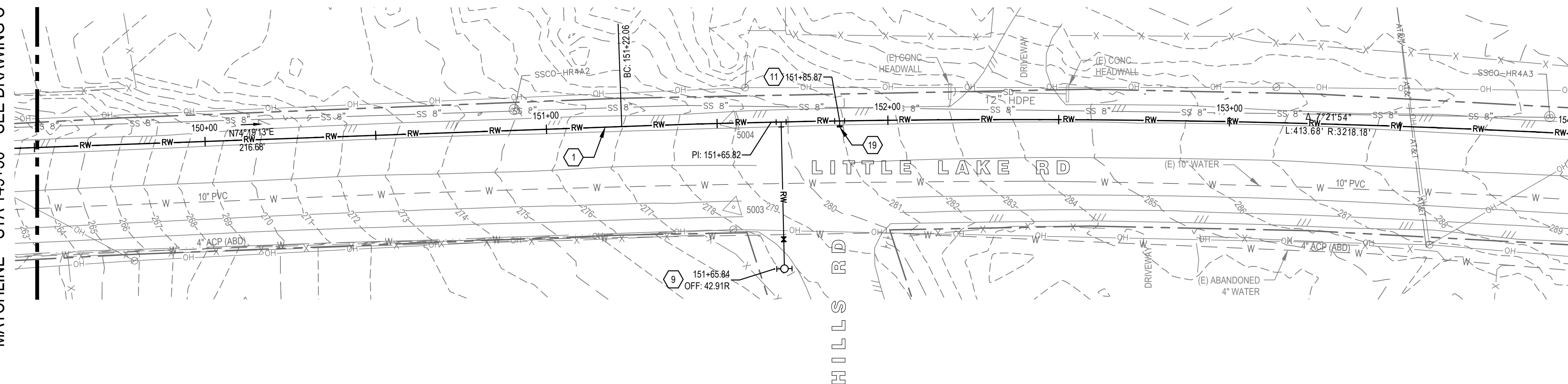
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9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

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19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.

MATCHLINE STA 149+50 SEE DRAWING C-111

MATCHLINE STA 154+00 SEE DRAWING C-113



CONFORMED DRAWINGS	CB	MK	3/25/2026
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Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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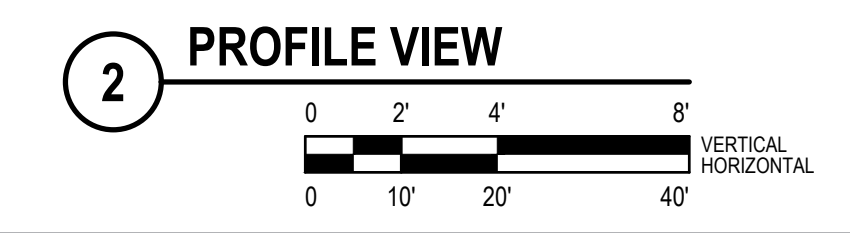
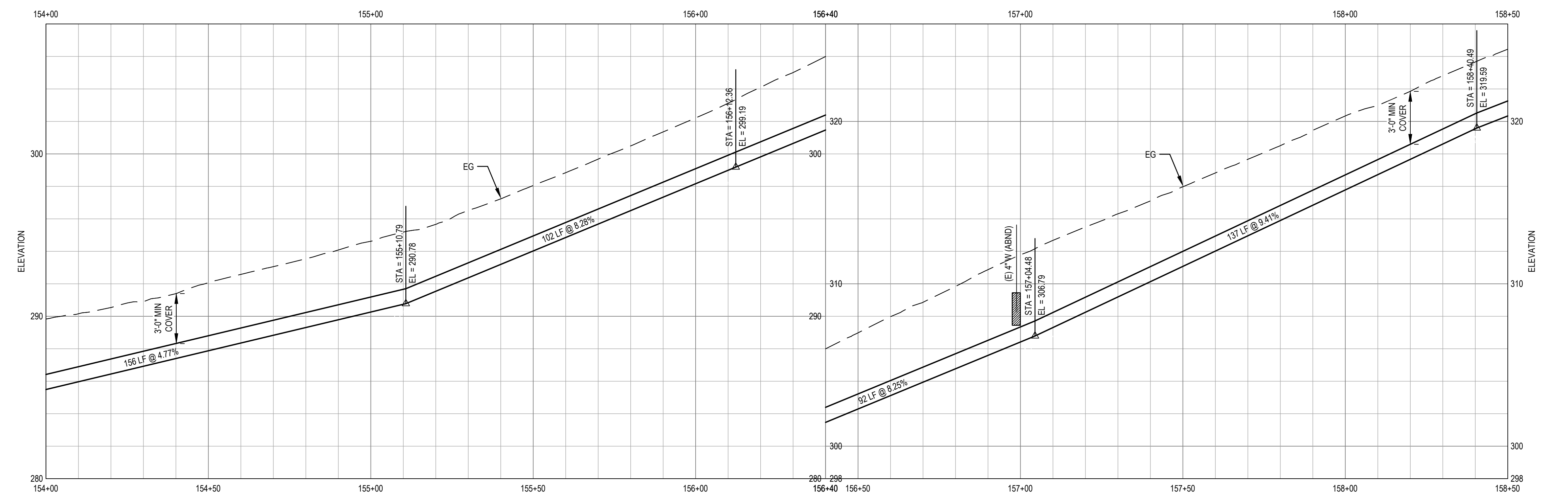
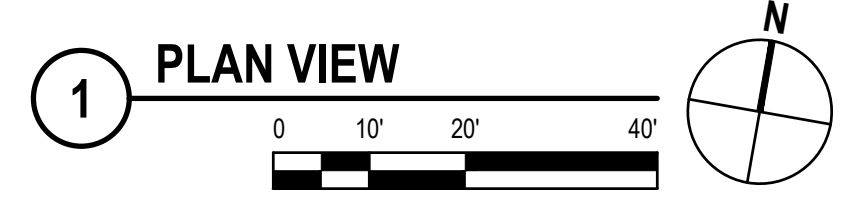
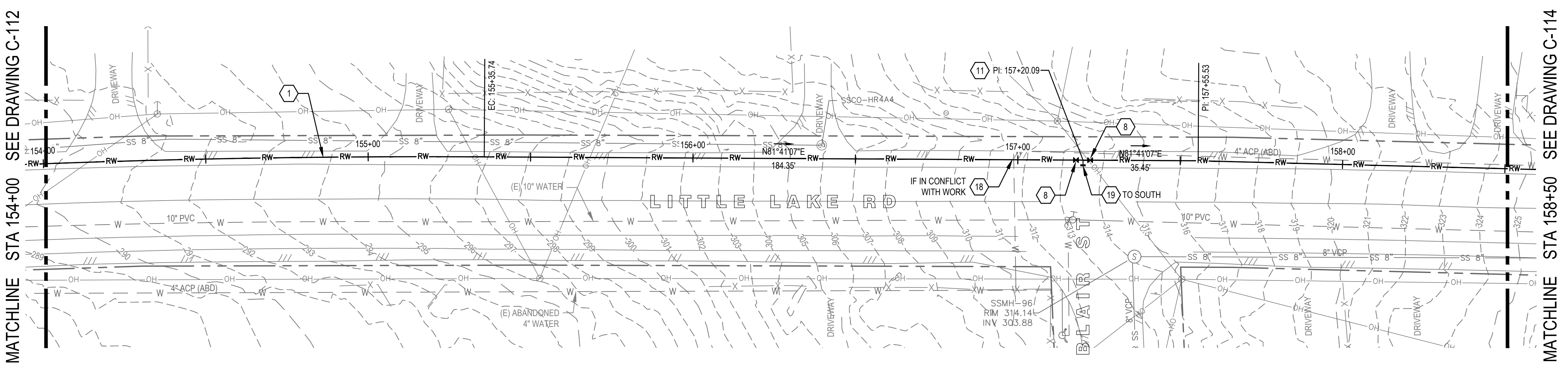
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 149+50 TO 154+00		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-112		
Sheet	19	of	53

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**SHEET KEYNOTES**

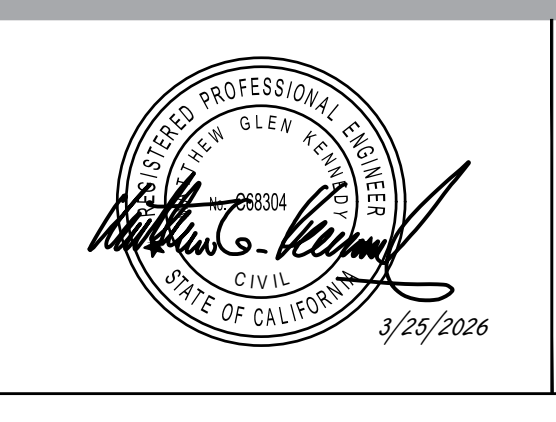
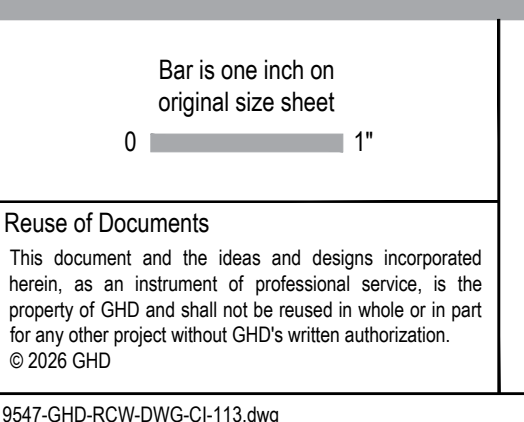
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 154+00 TO 158+50		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-113		
Sheet	20	of	53

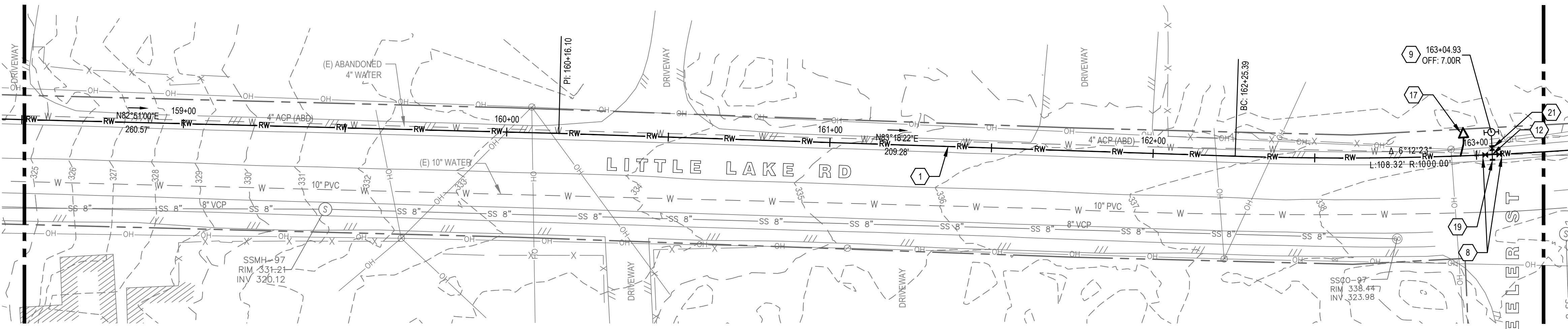
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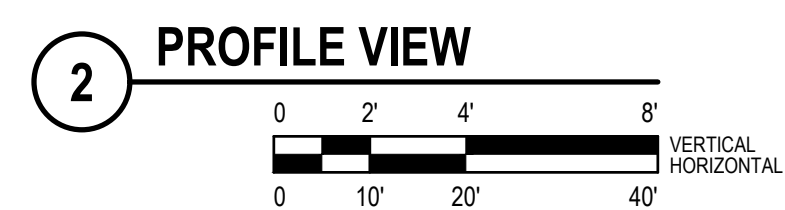
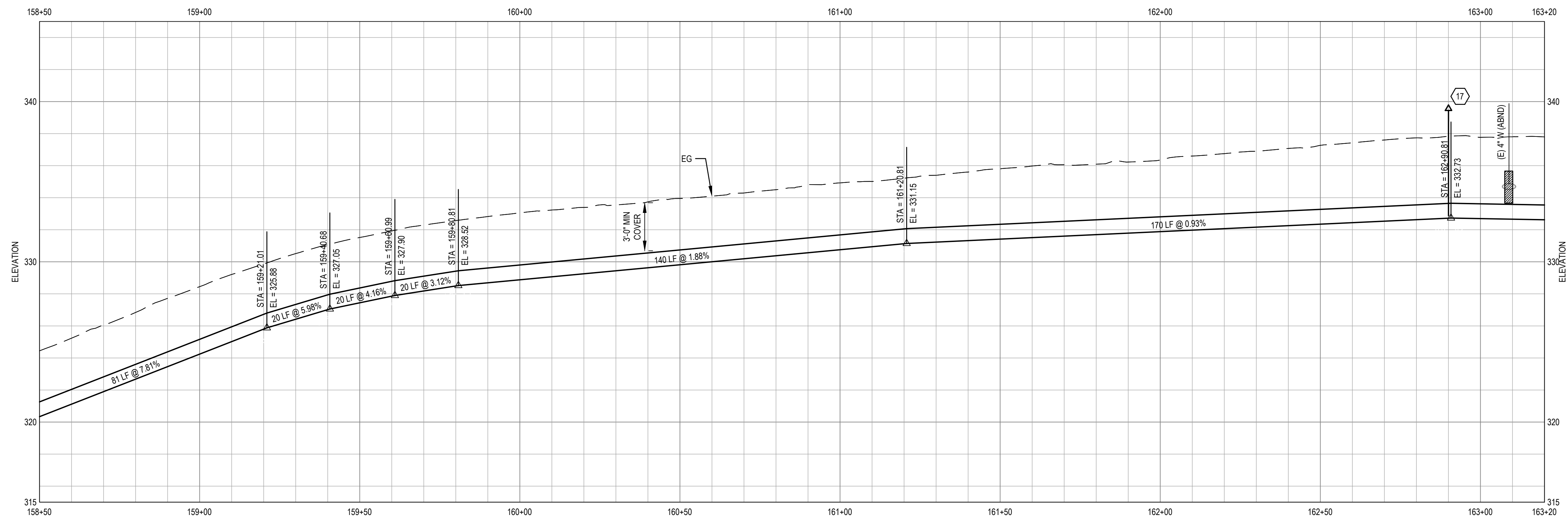
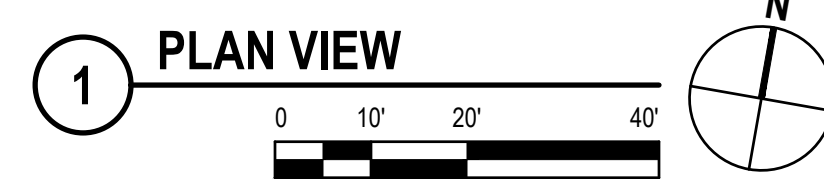
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MATCHLINE STA 158+50 SEE DRAWING C-113



MATCHLINE STA 163+20 SEE DRAWING C-115



No.	Issue	Drawn	Approved	Date
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Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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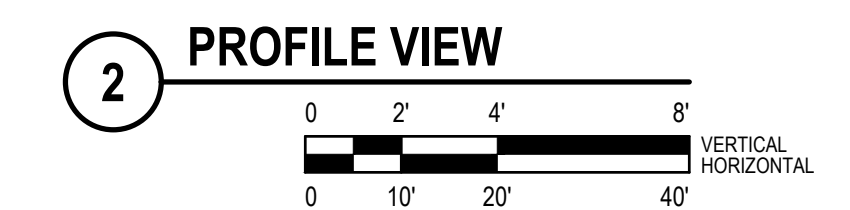
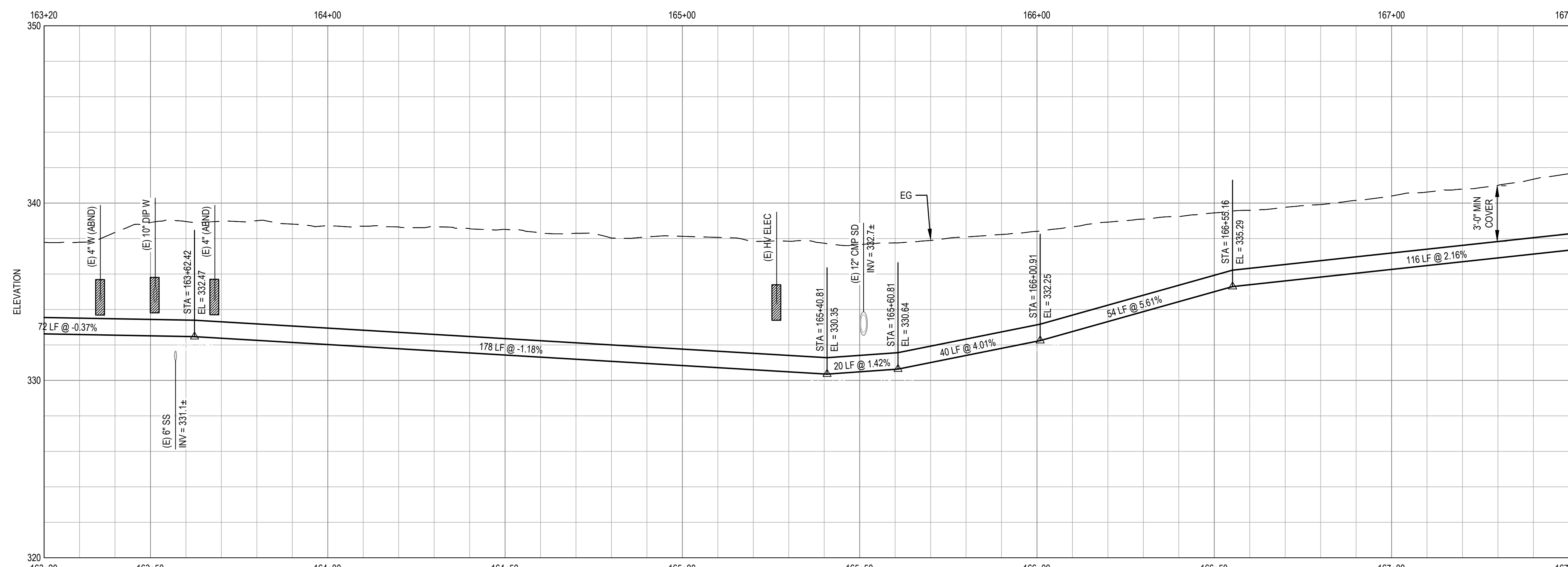
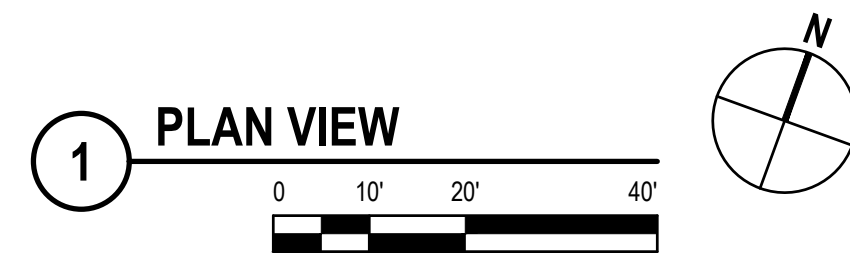
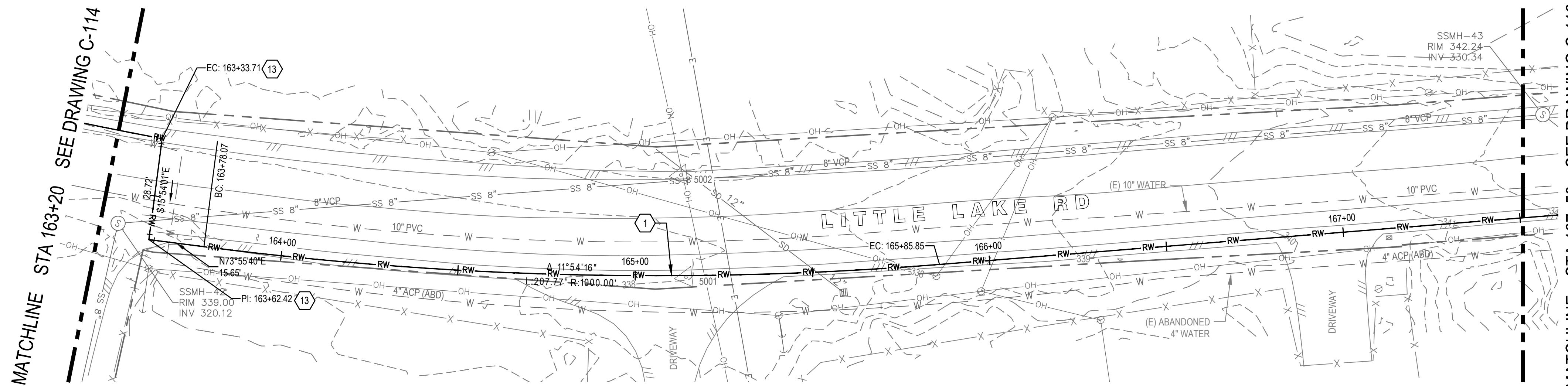
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Title	<b>RECYCLED WATER LINE - STA 158+50 TO 163+20</b>	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	<b>C-114</b>	
Sheet	21 of 53	

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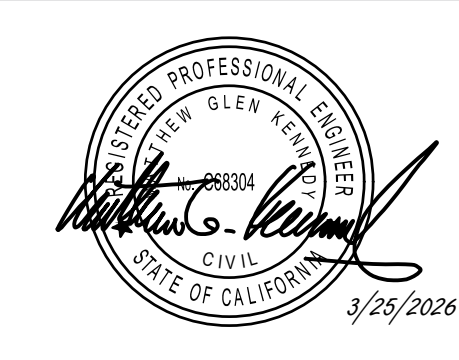
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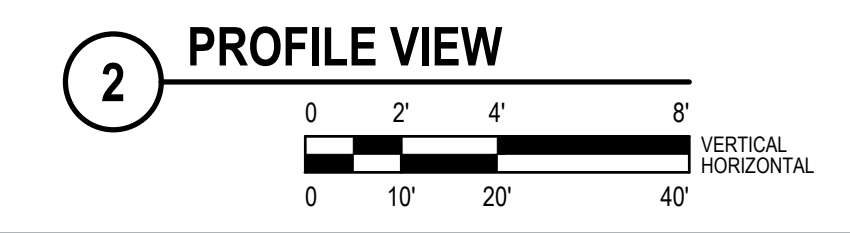
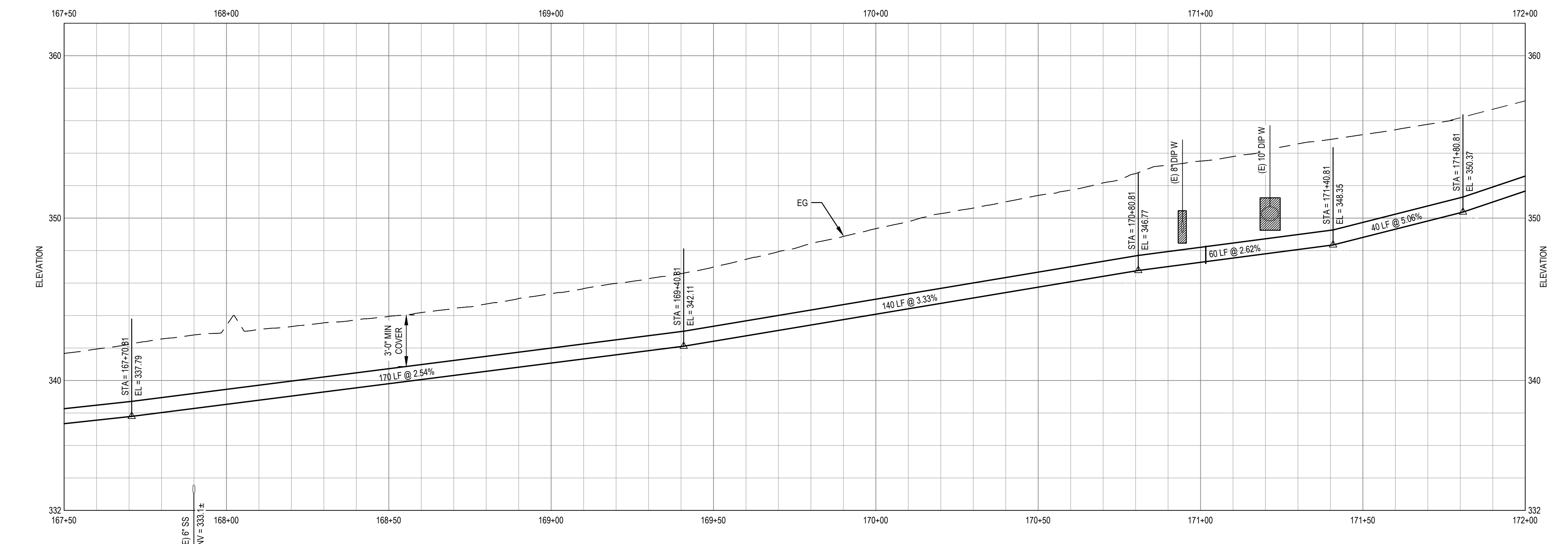
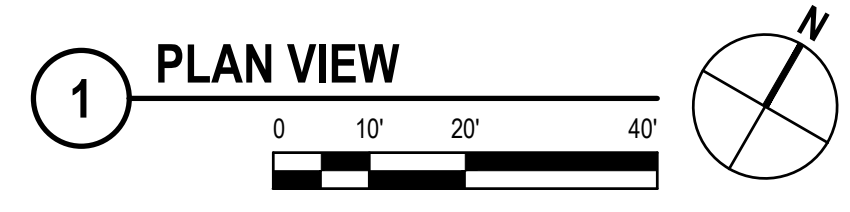
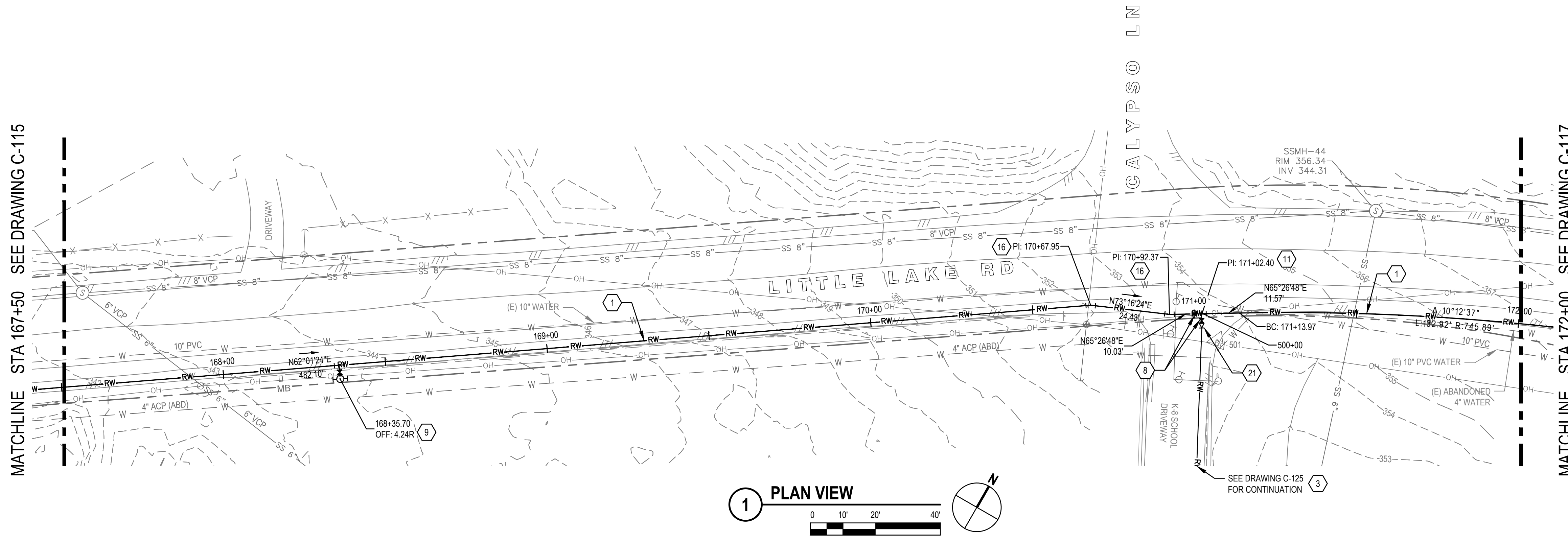
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Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT	
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	RECYCLED WATER LINE - STA 163+20 TO 167+50	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-115	
Sheet	22	of 53

MATCHLINE STA 167+50 SEE DRAWING C-115

MATCHLINE STA 172+00 SEE DRAWING C-117



**SHEET GENERAL NOTES**

1. LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE OWNER AND UNDERGROUND SERVICES ALERT (800) 227-2600 OR 811 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION AND SHALL POthOLE FOR EXACT LOCATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES.
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6. PRIOR TO BACKFILLING, VERIFY THAT THE MANUFACTURER'S ASSEMBLY MARK ON THE PIPE JOINT IS FLUSH WITH THE END OF THE BELL.
7. ALL ELBOWS, BENDS, TEES, VALVES, AND OTHER DUCTILE IRON FITTINGS INSTALLED ON THE RECYCLED WATER PIPELINE SHALL BE MECHANICALLY RESTRAINED AS SHOWN ON DETAIL 3 ON SHEET C-505.
8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
4. NOT USED.
5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
6. (N) 1" PVC SCH 80 RECYCLED WATER PIPE.
7. (N) 10" FPVC DR 18 RECYCLED WATER MAIN IN 14" FPVC DR 18 CASING INSTALLED VIA HDD. SEE PROFILE.
8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 3 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
11. (N) TEE, SIZE PER ADJOINING PIPE, UNO.
12. (N) CROSS, SIZE PER ADJOINING PIPE, UNO.
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18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.

CONFORMED DRAWINGS		CB	MK	3/25/2026
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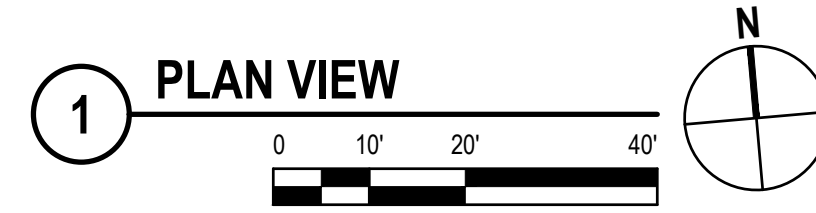
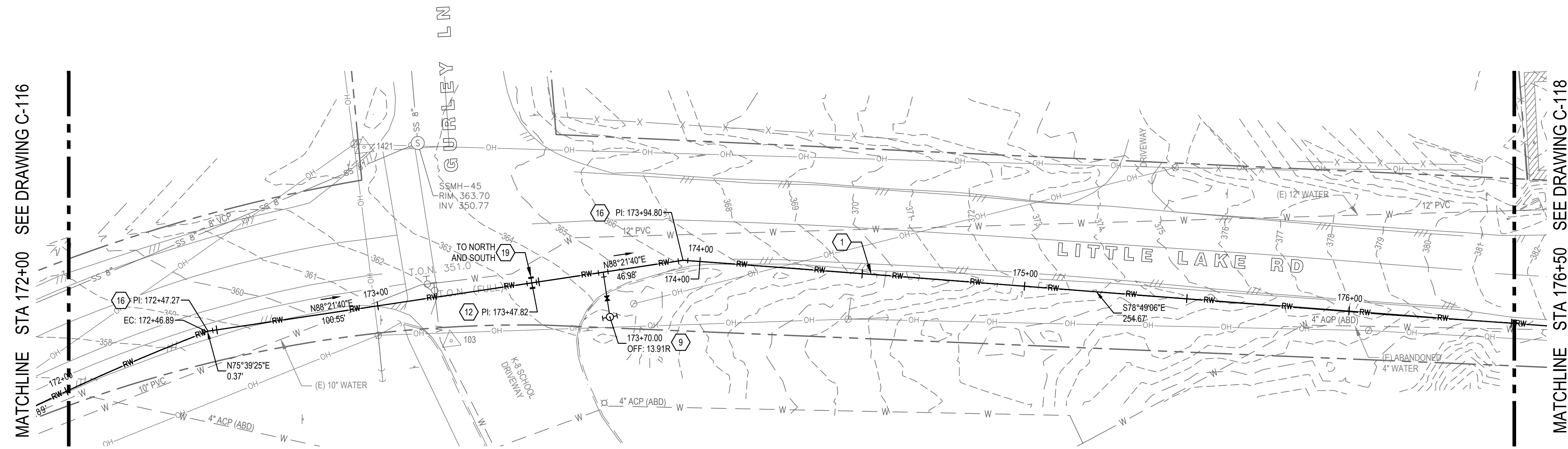
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT	
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	RECYCLED WATER LINE - STA 167+50 TO 172+00	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-116	
Sheet	23	of 53

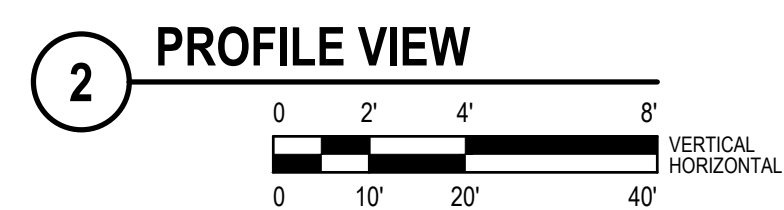
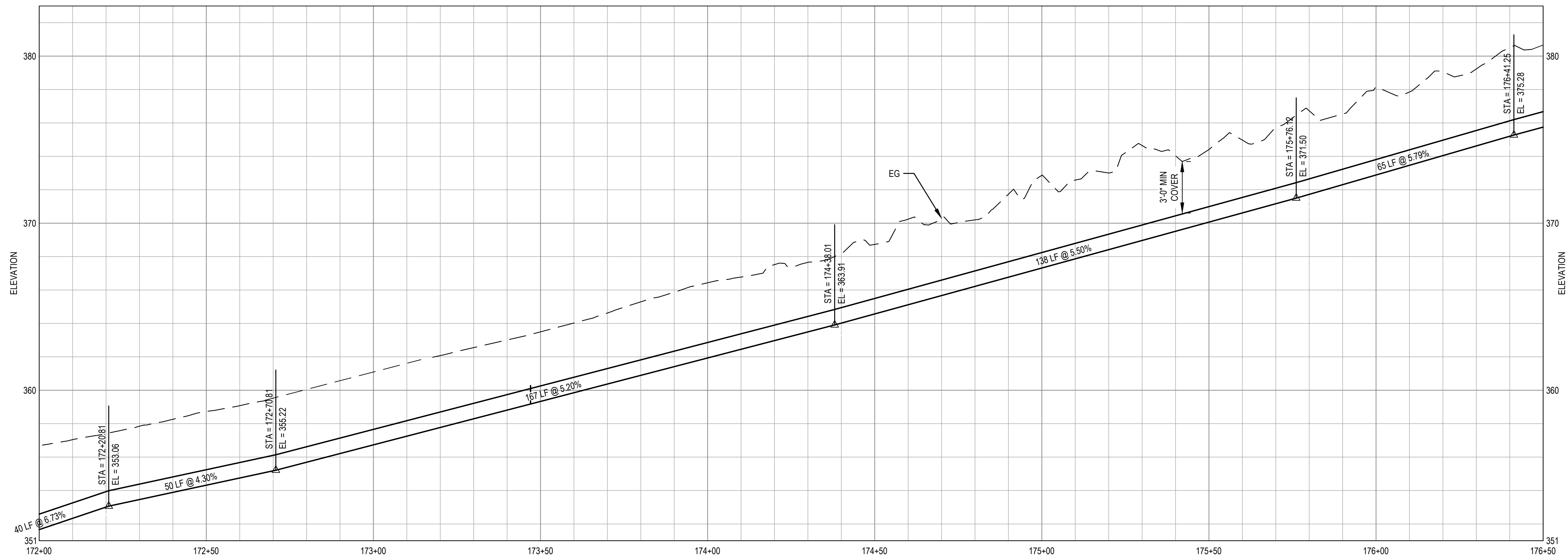
MATCHLINE STA 172+00 SEE DRAWING C-116

MATCHLINE STA 176+50 SEE DRAWING C-118



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  8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
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  3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
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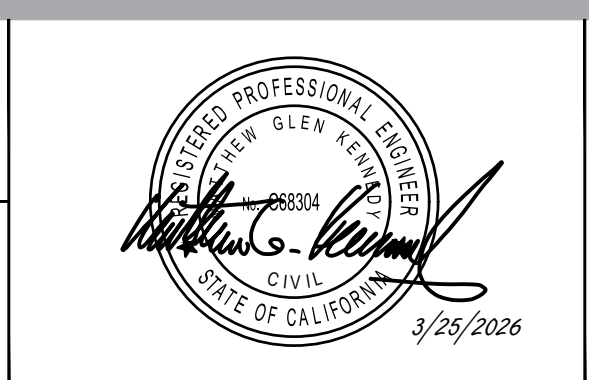


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Drafting Check <b>L. HALONEN</b> <b>M. KENNEDY</b>	Design Check <b>M. KENNEDY</b>
Project Manager <b>M. KENNEDY</b>	Date <b>MARCH 2026</b>
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Client <b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b>	Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b>
Title <b>RECYCLED WATER LINE - STA 172+00 TO 176+50</b>	
Project No. <b>12619547</b>	Original Size <b>ANSI D</b>
Drawing No. <b>C-117</b>	
Sheet <b>24</b>	of <b>53</b>

**SHEET GENERAL NOTES**

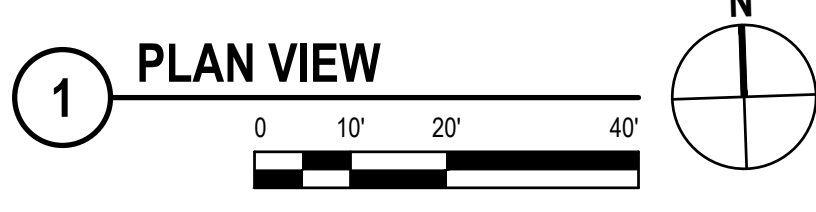
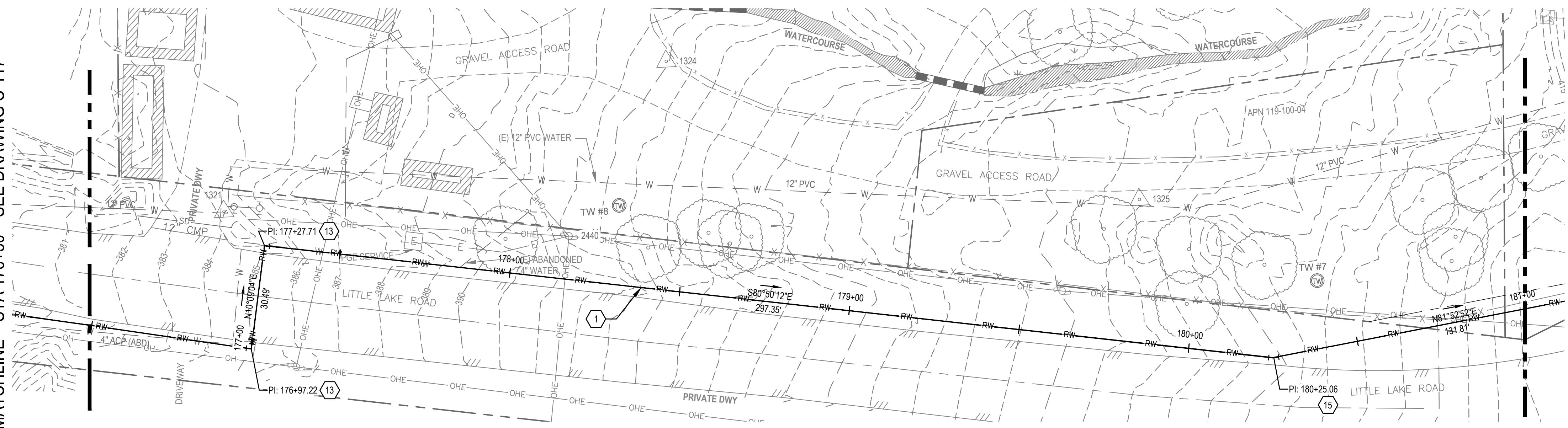
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**SHEET KEYNOTES**

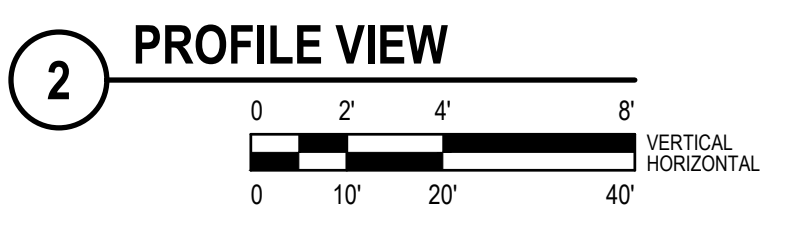
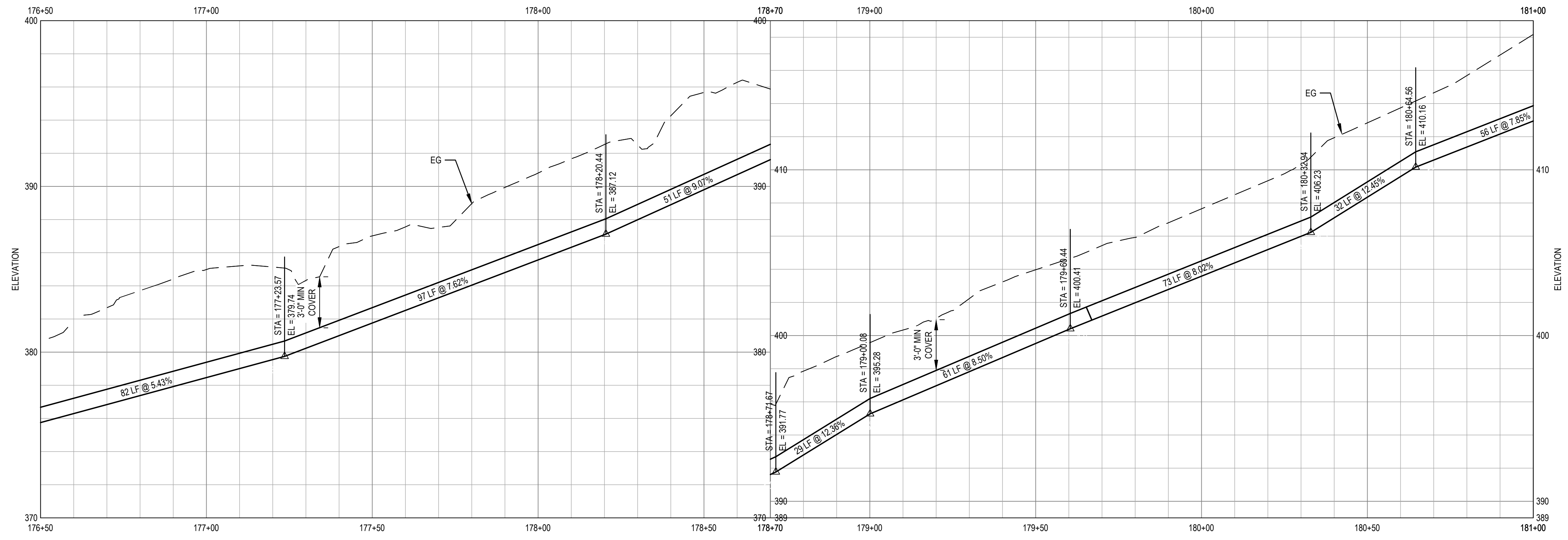
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MATCHLINE STA 176+50 SEE DRAWING C-117

MATCHLINE STA 181+00 SEE DRAWING C-119



**1 PLAN VIEW**



**2 PROFILE VIEW**

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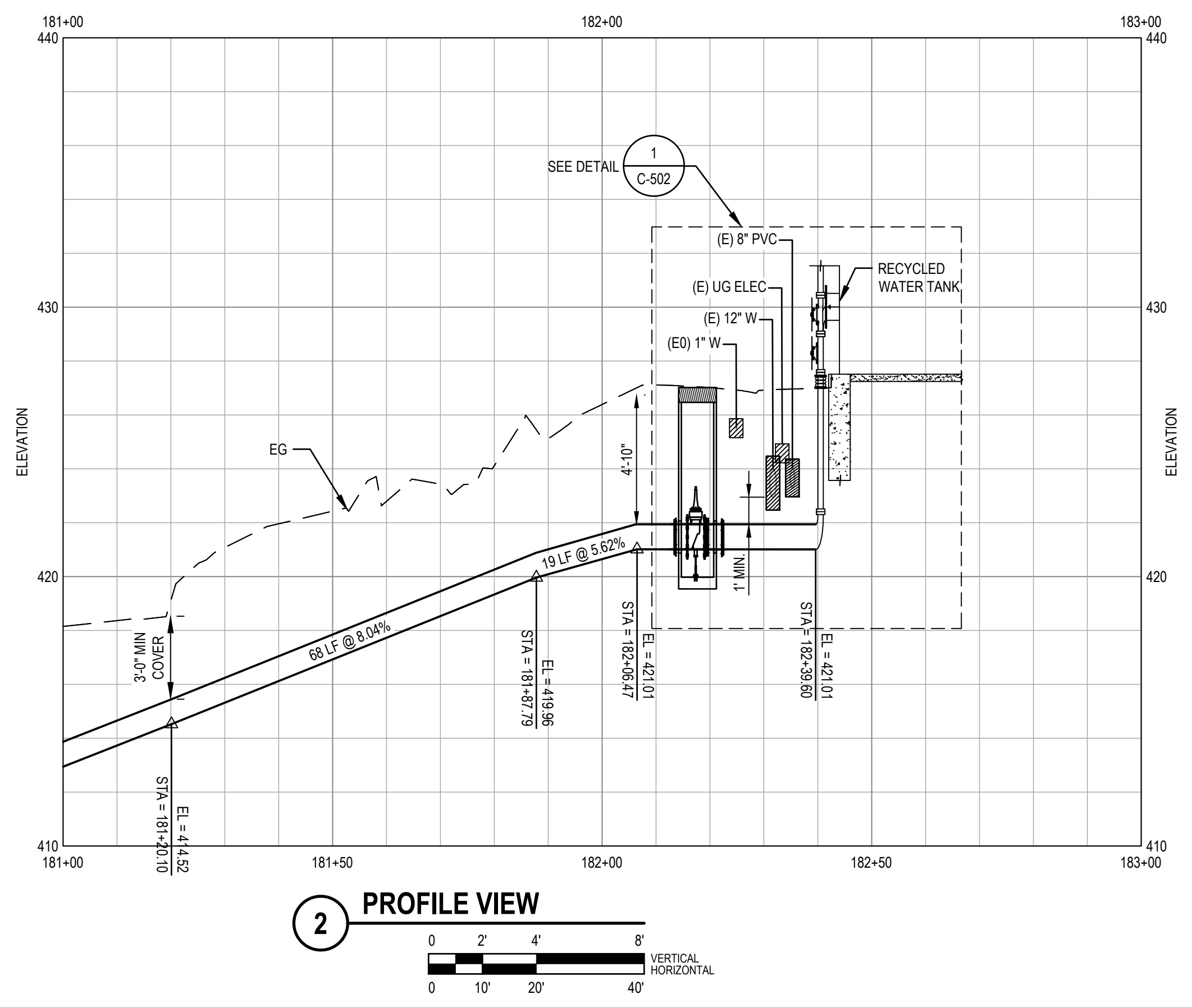
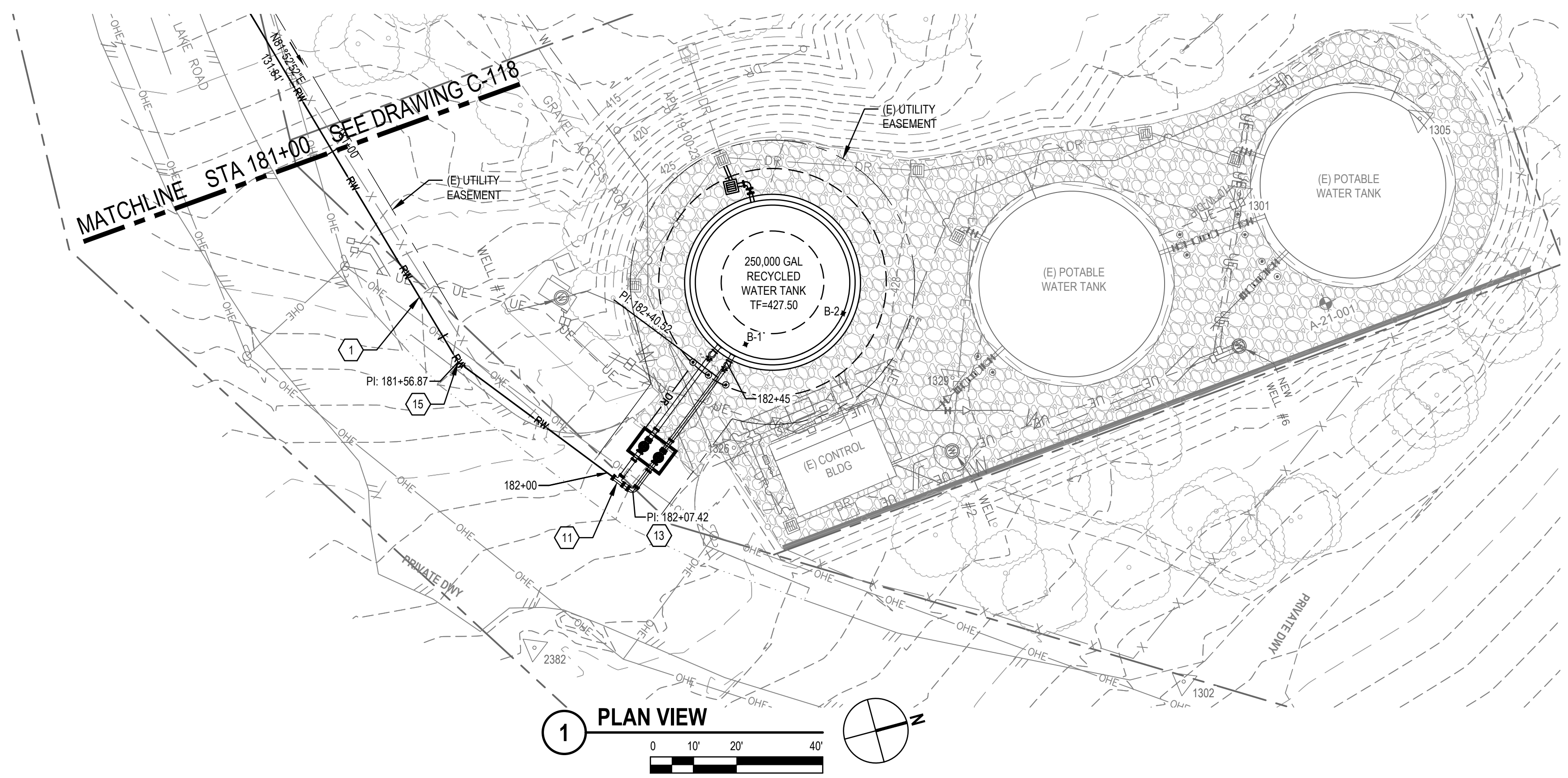
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 176+50 TO 181+00		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-118		
Sheet	25	of	53



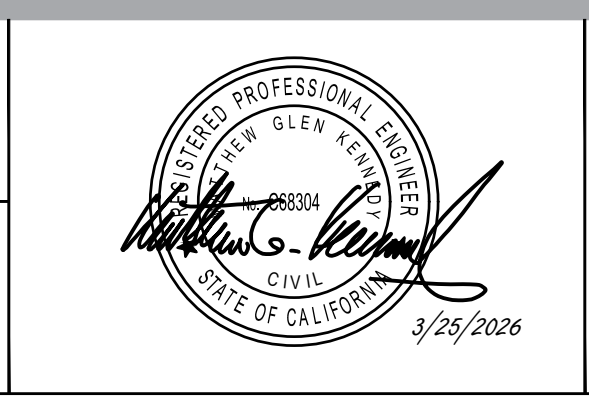
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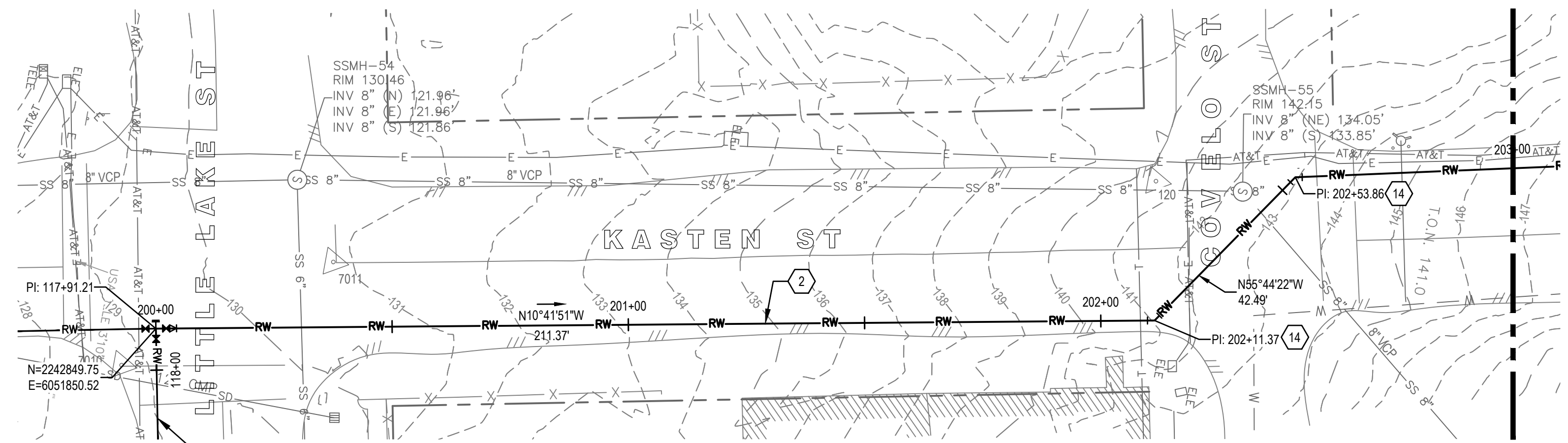
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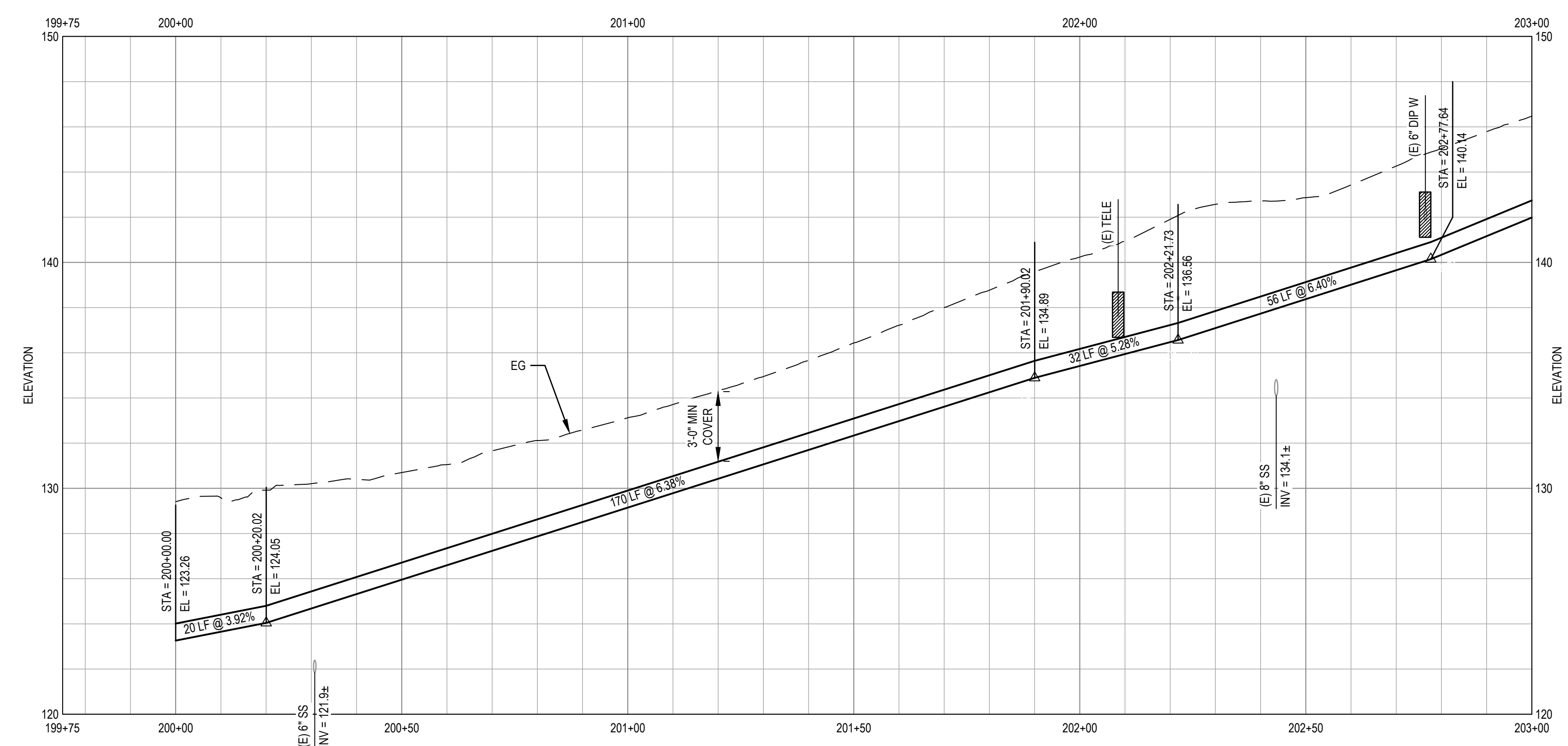
Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Client Project	MENDOCINO CITY COMMUNITY SERVICES DISTRICT RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS	
Title	RECYCLED WATER LINE - STA 181+00 TO 182+31	
Project No.	12619547	
Original Size	ANSI D	
Drawing No.	C-119	
Sheet	26 of 53	



**1 PLAN VIEW**

0 10' 20' 40'



**2 PROFILE VIEW**

0 2' 4' 8' VERTICAL  
0 10' 20' 40' HORIZONTAL

**SHEET GENERAL NOTES**

1. LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE OWNER AND UNDERGROUND SERVICES ALERT (800) 227-2600 OR 811 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION AND SHALL POthOLE FOR EXACT LOCATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES.
2. THE MINIMUM ALLOWABLE PIPE COVER OVER ALL PIPES 4" NOMINAL DIAMETER AND LARGER SHALL BE 36" AS MEASURED FROM FINISH GRADE TO THE TOP OF THE PIPE.
3. PROVIDE A MINIMUM OF 12" VERTICAL CLEARANCE BETWEEN (E) WATER UTILITY AND (N) RECYCLED WATER MAIN. BACKFILL BETWEEN UTILITIES WITH CONTROLLED DENSITY FILL SLURRY, MIN 5' FROM CROSSING EACH WAY. PROVIDE A MINIMUM OF 6" SAND AROUND UTILITIES IF USING CONTROLLED DENSITY FILL SLURRY IN ACCORDANCE WITH MENDOT STD NO. A60A AND A60B.
4. PROVIDE A MINIMUM OF 6" VERTICAL CLEARANCE BETWEEN (E) UNDERGROUND SEWER AND (N) RECYCLED WATER MAIN. PROVIDE A MINIMUM OF 12" OF VERTICAL CLEARANCE BETWEEN (E) POWER, TELECOMMUNICATIONS, AND GAS UTILITIES AND (N) RECYCLED WATER MAIN. PROVIDE A MINIMUM OF 18" OF VERTICAL CLEARANCE BETWEEN (E) STORM DRAINS AND (N) RECYCLED WATER MAIN.
5. THE MINIMUM ALLOWABLE RADIUS ON 10" NOMINAL DIAMETER PIPE SHALL BE 300 FEET. CURVATURE OF THE PIPE SHALL BE ACCOMPLISHED THROUGH LONGITUDINAL BENDING OF THE PIPE BARREL. DEFLECTION OF JOINTS IS NOT ALLOWED.
6. PRIOR TO BACKFILLING, VERIFY THAT THE MANUFACTURER'S ASSEMBLY MARK ON THE PIPE JOINT IS FLUSH WITH THE END OF THE BELL.
7. ALL ELBOWS, BENDS, TEES, VALVES, AND OTHER DUCTILE IRON FITTINGS INSTALLED ON THE RECYCLED WATER PIPELINE SHALL BE MECHANICALLY RESTRAINED AS SHOWN ON DETAIL 3 ON SHEET C-505.
8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
4. NOT USED.
5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
6. (N) 1" PVC SCH 80 RECYCLED WATER PIPE.
7. (N) 10" FPVC DR 18 RECYCLED WATER MAIN IN 14" FPVC DR 18 CASING INSTALLED VIA HDD. SEE PROFILE.
8. (N) GATE VALVE, SIZE PER ADJOINING PIPE. UNO. SEE DETAIL 3 ON DRAWING C-502.
9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
11. (N) TEE, SIZE PER ADJOINING PIPE. UNO.
12. (N) CROSS, SIZE PER ADJOINING PIPE. UNO.
13. (N) 90° ELBOW, SIZE PER ADJOINING PIPE. UNO.
14. (N) 45° ELBOW, SIZE PER ADJOINING PIPE. UNO.
15. (N) 22.5° ELBOW, SIZE PER ADJOINING PIPE. UNO.
16. (N) 11.25° ELBOW, SIZE PER ADJOINING PIPE. UNO.
17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
21. (N) REDUCER, SIZE PER ADJOINING PIPE. UNO.

No.	Issue	Drawn	Approved	Date
	CONFORMED DRAWINGS	CB	MK	3/25/2026

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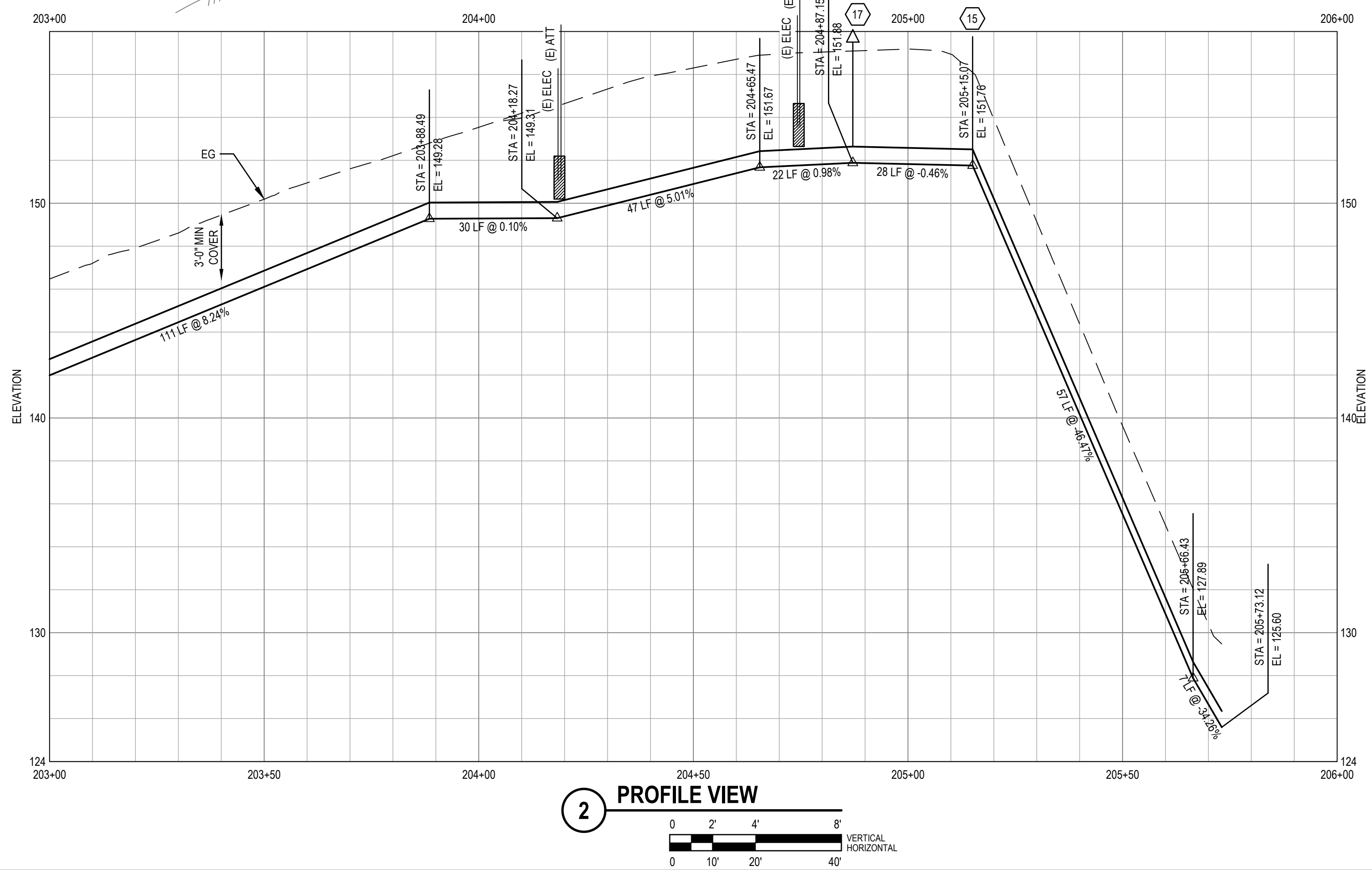
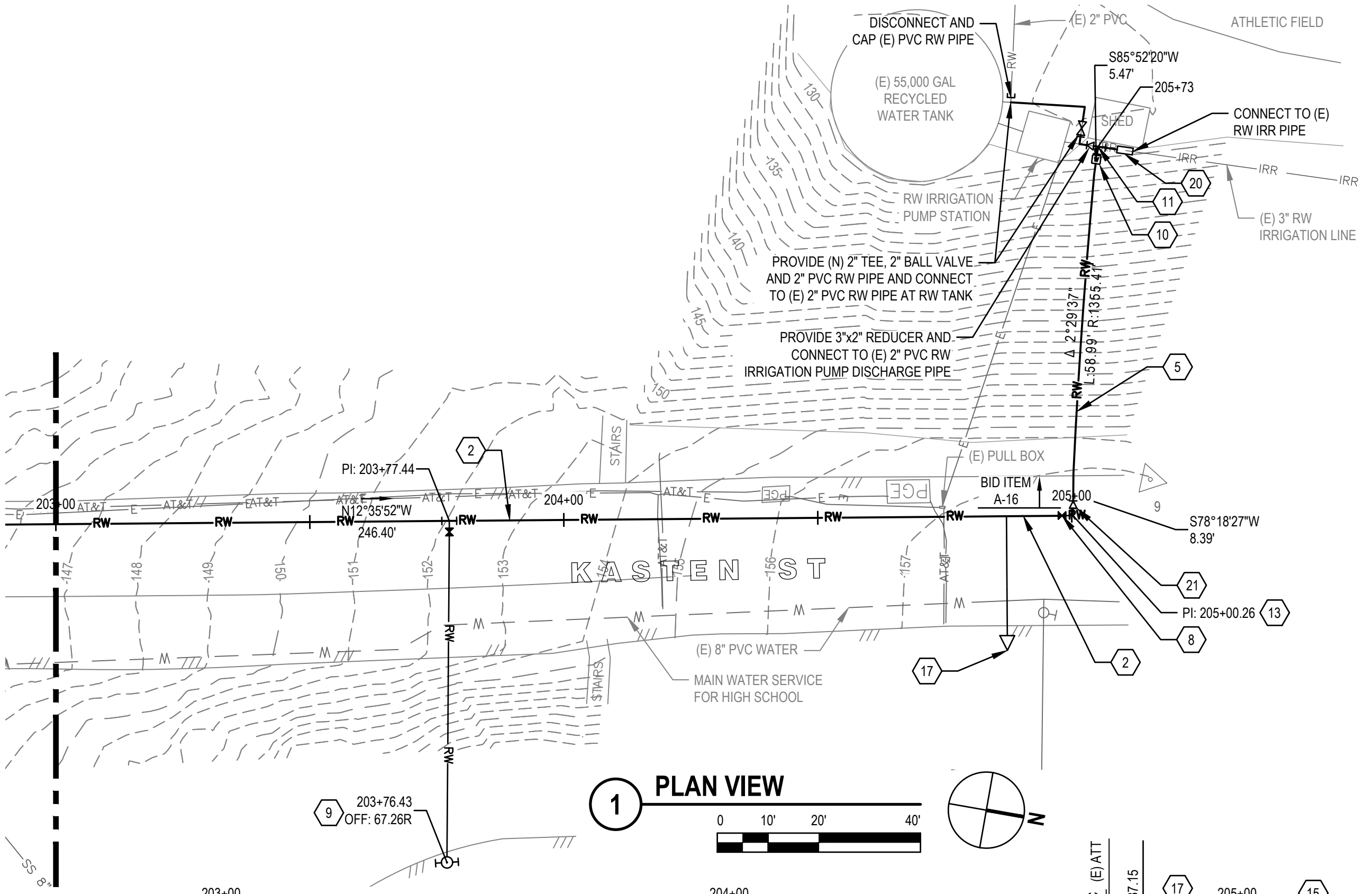


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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
		Scale	AS SHOWN

Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 200+00 TO 203+00		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-120		
Sheet	27 of 53		

MATCHLINE STA 203+00 SEE DRAWING C-120



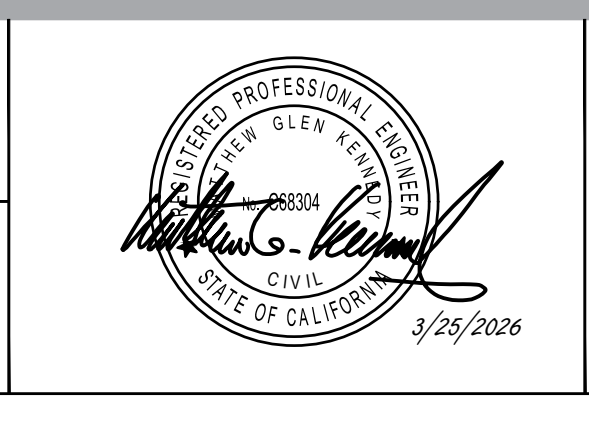
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  8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
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- ### SHEET KEYNOTES
1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
  2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
  3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
  4. NOT USED.
  5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
  6. (N) 1" PVC SCH 80 RECYCLED WATER PIPE.
  7. (N) 10" FPVC DR 18 RECYCLED WATER MAIN IN 14" FPVC DR 18 CASING INSTALLED VIA HDD. SEE PROFILE.
  8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 2 ON DRAWING C-502.
  9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
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  17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
  18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
  19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
  20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
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CONFORMED DRAWINGS		CB	MK	3/25/2026
No.	Issue	Drawn	Approved	Date

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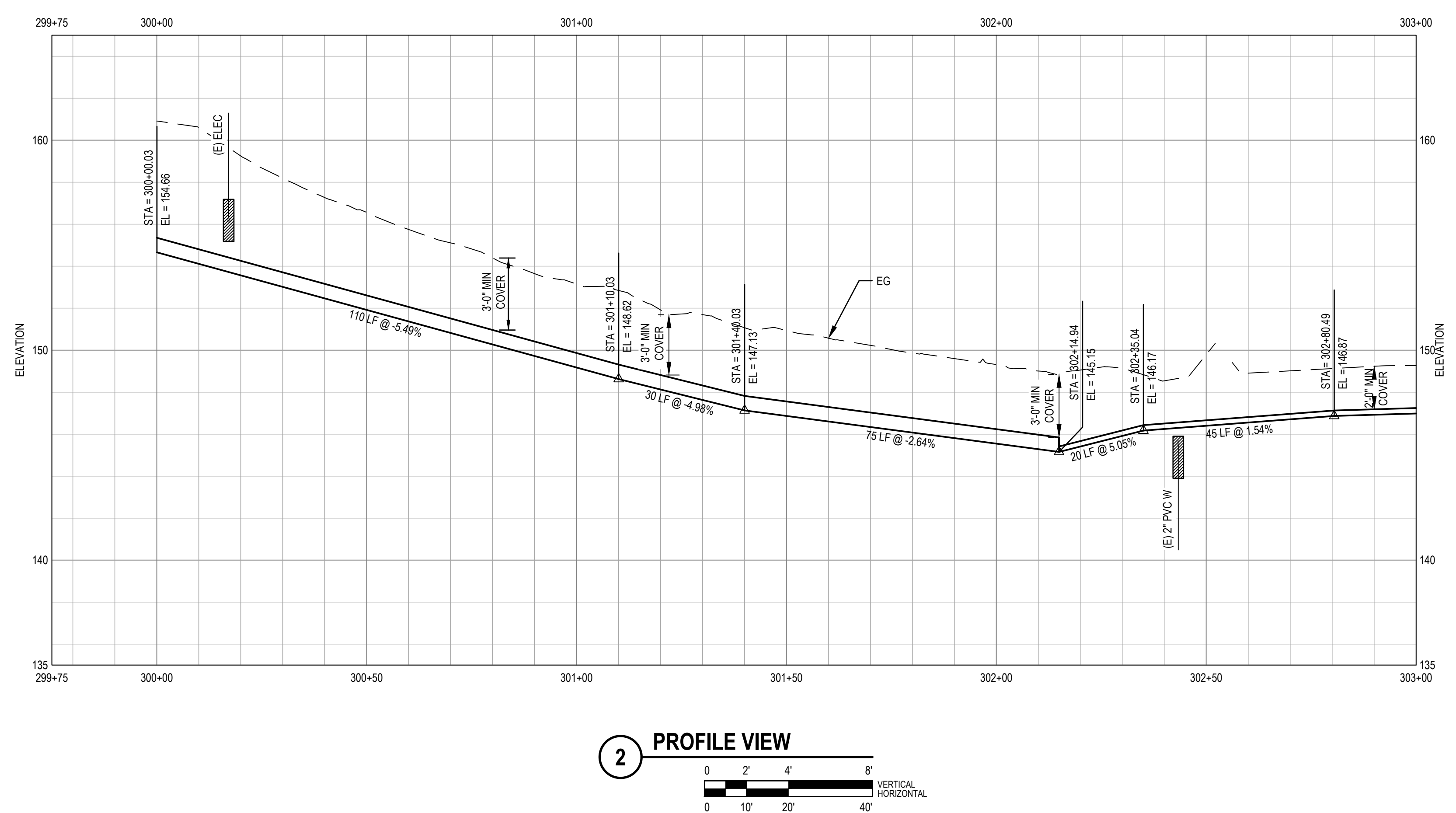
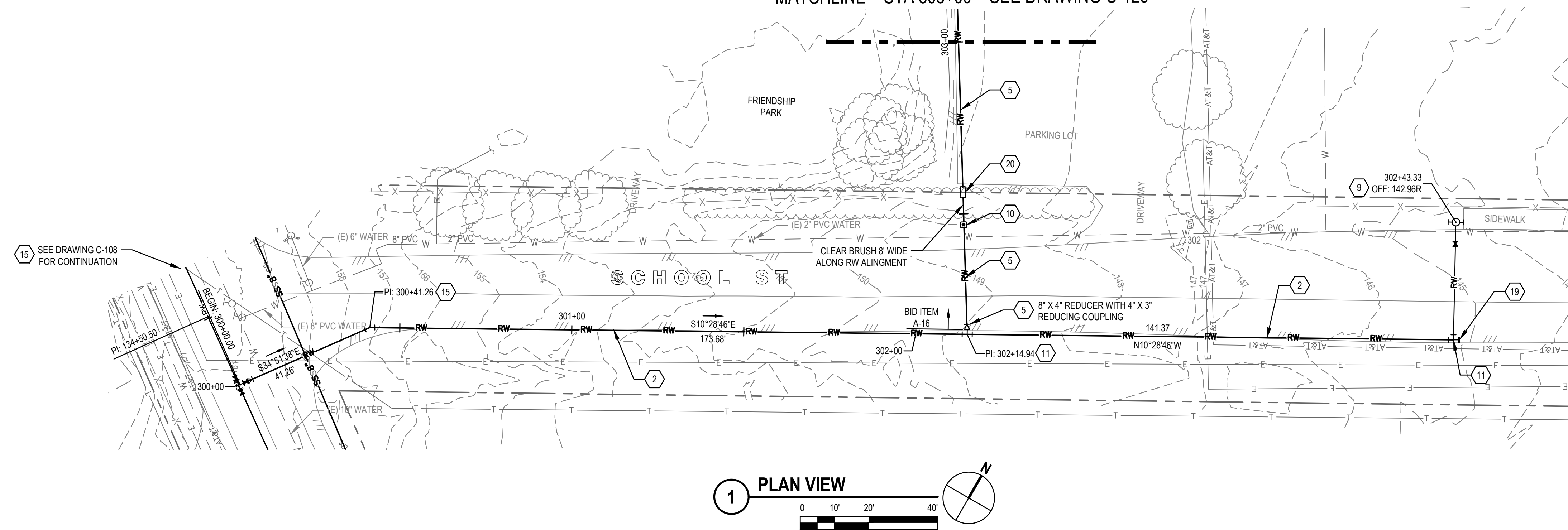


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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 203+00 TO 205+73		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-121		
Sheet	28	of	53

MATCHLINE STA 303+00 SEE DRAWING C-123

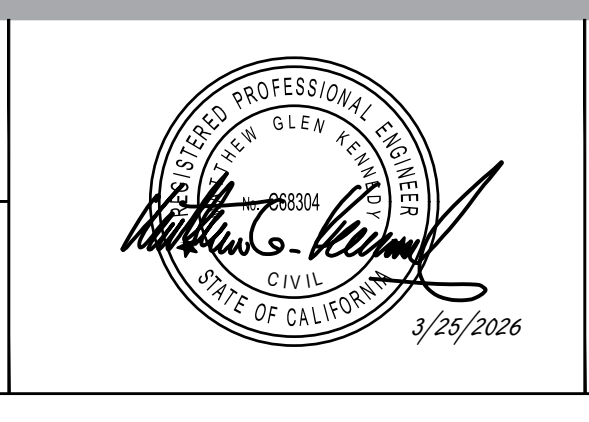
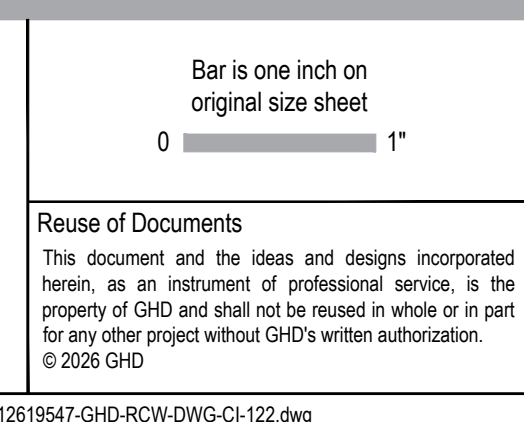


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No.	Issue	Drawn	Approved	Date
	CONFORMED DRAWINGS	CB	MK	3/25/2026

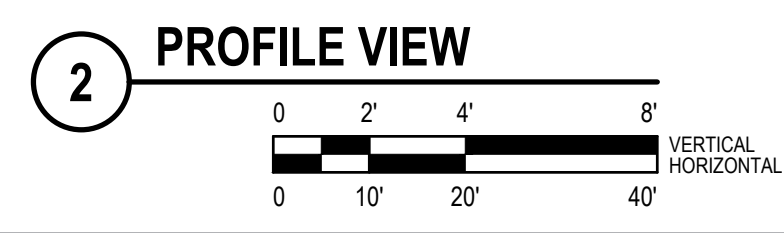
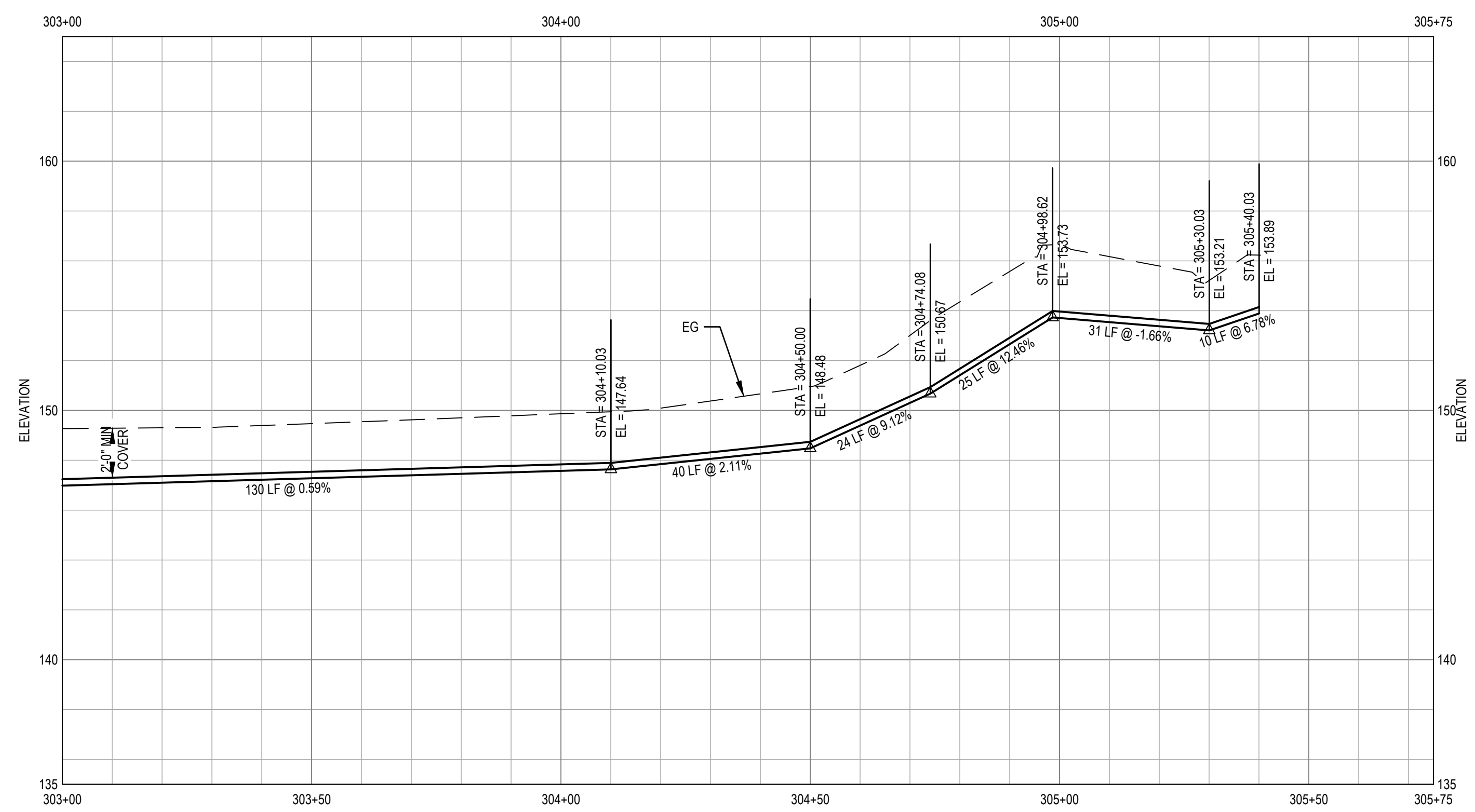
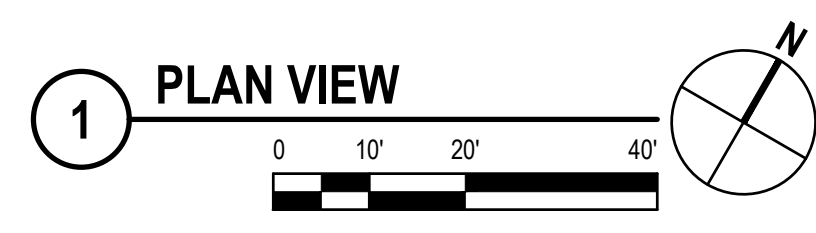
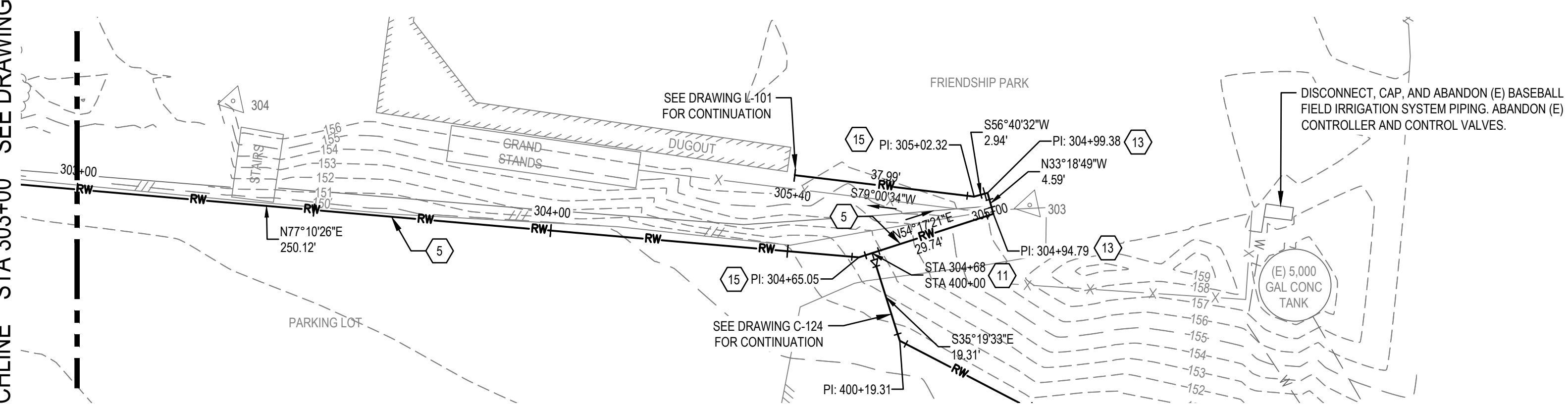
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Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	RECYCLED WATER LINE - STA 300+00 TO 303+00
Project No.	12619547
Original Size	ANSI D
Drawing No.	C-122

MATCHLINE STA 303+00 SEE DRAWING C-122



**SHEET GENERAL NOTES**

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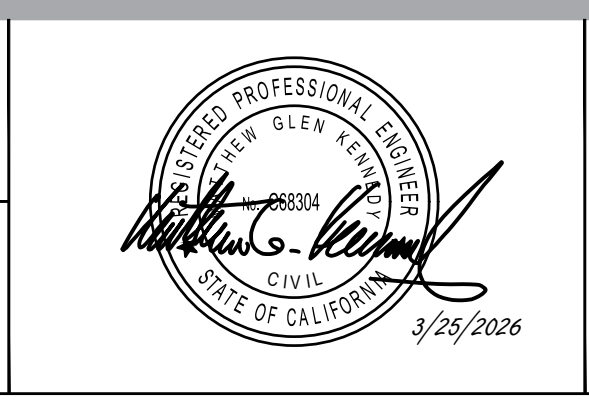
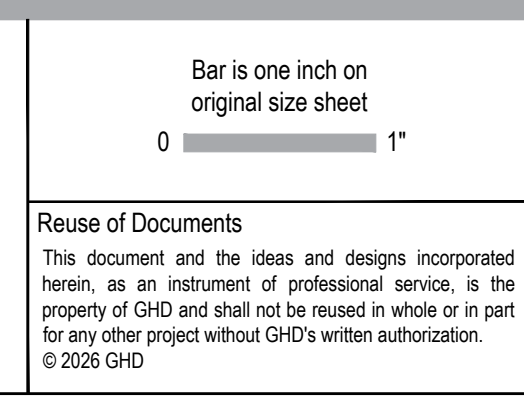
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CONFORMED DRAWINGS				CB	MK	3/25/2026
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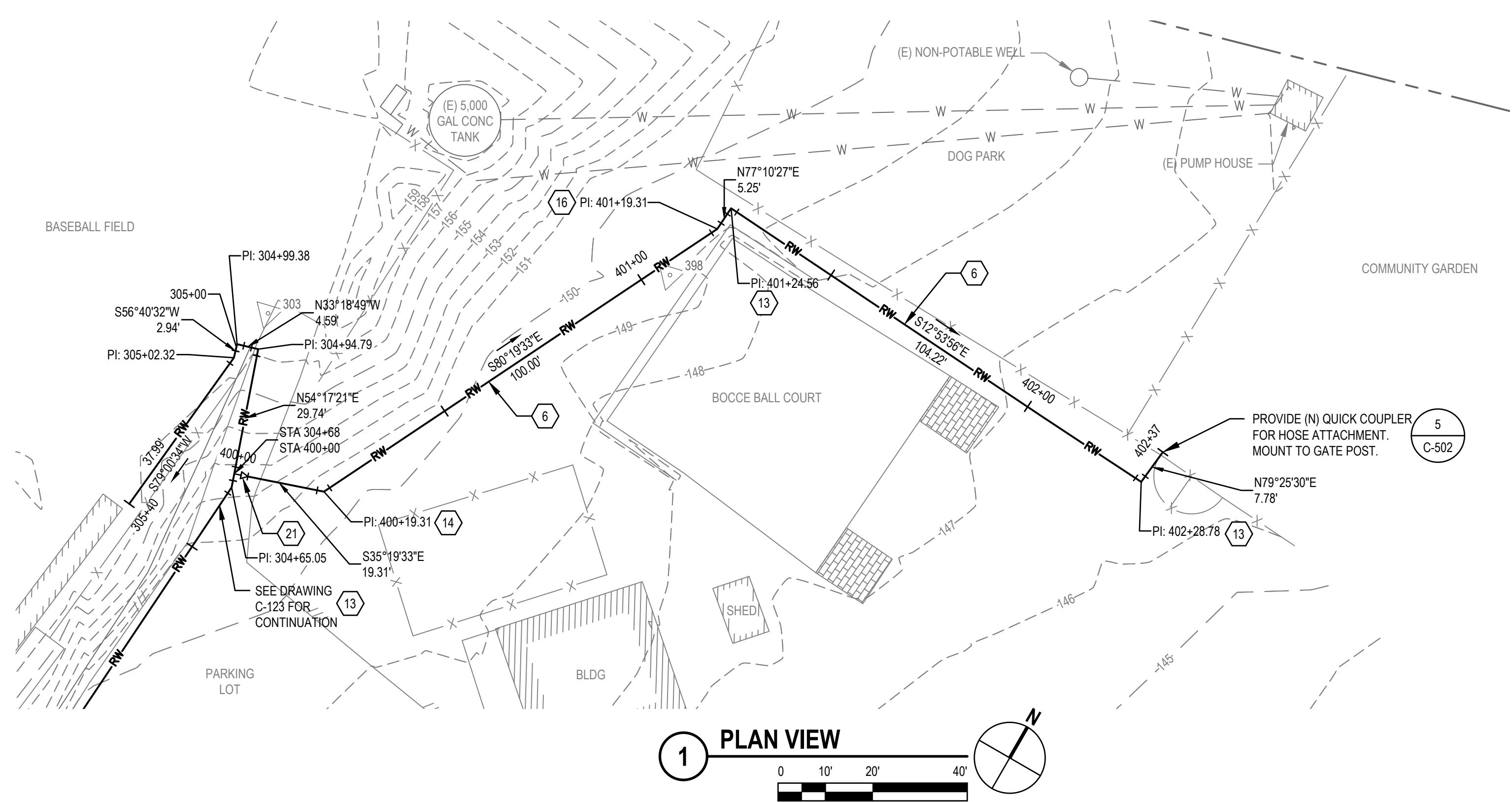
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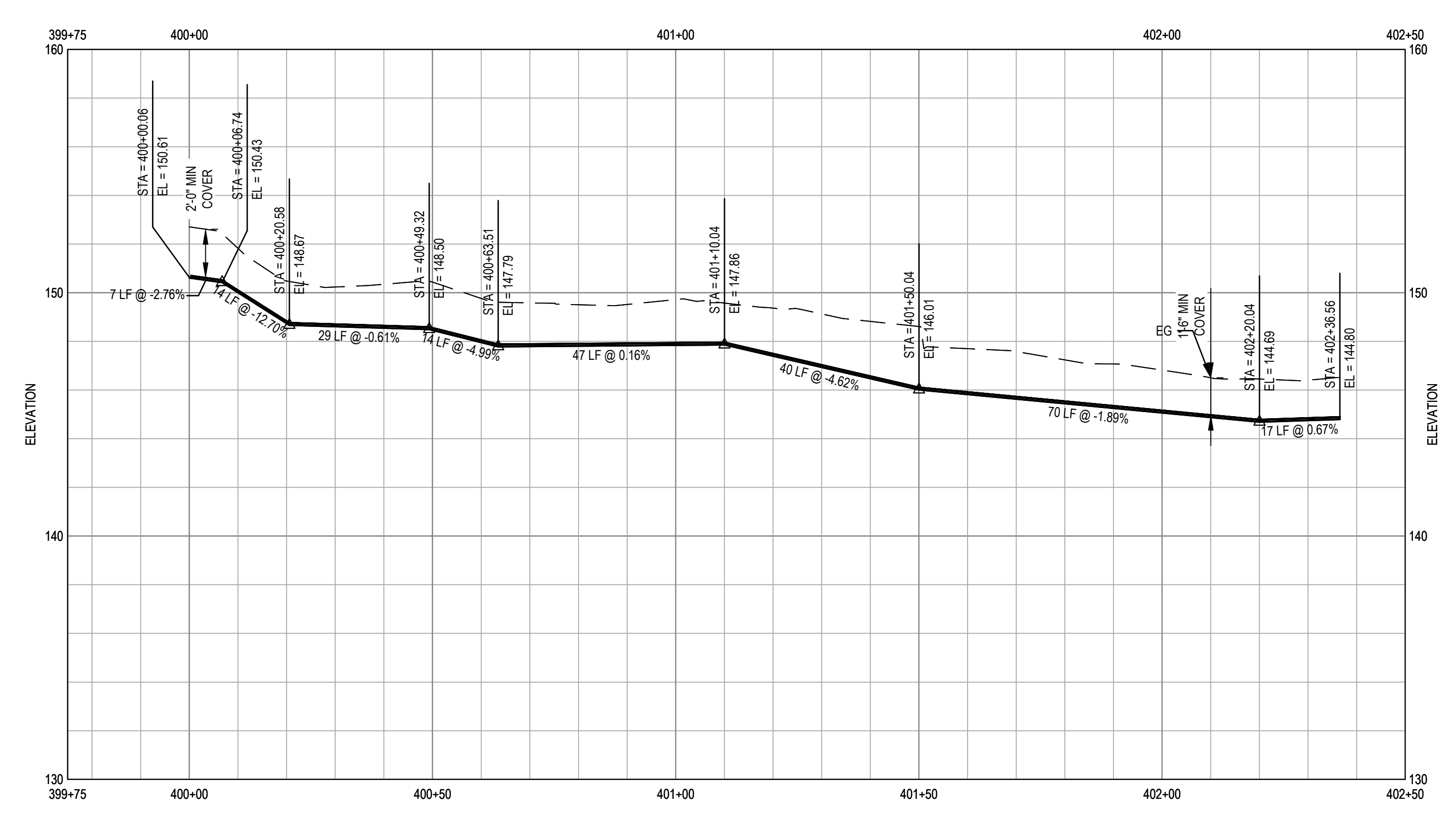


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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	RECYCLED WATER LINE - STA 303+00 TO 305+40
Project No.	12619547
Original Size	ANSI D
Drawing No.	C-123



**1 PLAN VIEW**



**2 PROFILE VIEW**

- SHEET GENERAL NOTES**
1. LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY THE OWNER AND UNDERGROUND SERVICES ALERT (800) 227-2600 OR 811 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION AND SHALL POthOLE FOR EXACT LOCATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES.
  2. THE MINIMUM ALLOWABLE PIPE COVER OVER ALL PIPES 4" NOMINAL DIAMETER AND LARGER SHALL BE 36" AS MEASURED FROM FINISH GRADE TO THE TOP OF THE PIPE.
  3. PROVIDE A MINIMUM OF 12" VERTICAL CLEARANCE BETWEEN (E) WATER UTILITY AND (N) RECYCLED WATER MAIN. BACKFILL BETWEEN UTILITIES WITH CONTROLLED DENSITY FILL SLURRY, MIN 5' FROM CROSSING EACH WAY. PROVIDE A MINIMUM OF 6" SAND AROUND UTILITIES IF USING CONTROLLED DENSITY FILL SLURRY IN ACCORDANCE WITH MENDOT STD NO. A60A AND A60B.
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  5. THE MINIMUM ALLOWABLE RADIUS ON 10" NOMINAL DIAMETER PIPE SHALL BE 300 FEET. CURVATURE OF THE PIPE SHALL BE ACCOMPLISHED THROUGH LONGITUDINAL BENDING OF THE PIPE BARREL. DEFLECTION OF JOINTS IS NOT ALLOWED.
  6. PRIOR TO BACKFILLING, VERIFY THAT THE MANUFACTURER'S ASSEMBLY MARK ON THE PIPE JOINT IS FLUSH WITH THE END OF THE BELL.
  7. ALL ELBOWS, BENDS, TEES, VALVES, AND OTHER DUCTILE IRON FITTINGS INSTALLED ON THE RECYCLED WATER PIPELINE SHALL BE MECHANICALLY RESTRAINED AS SHOWN ON DETAIL 3 ON SHEET C-505.
  8. PROVIDE ALL FITTINGS AND TRANSITION COUPLINGS TO PROVIDE A COMPLETE AND WORKING SYSTEM.
  9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

- SHEET KEYNOTES**
1. (N) 10" PVC DR 18 RECYCLED WATER MAIN.
  2. (N) 8" PVC DR 18 RECYCLED WATER PIPE.
  3. (N) 6" PVC DR 18 RECYCLED WATER PIPE.
  4. NOT USED.
  5. (N) 3" PVC SCH 80 RECYCLED WATER PIPE.
  6. (N) 1" PVC SCH 80 RECYCLED WATER PIPE.
  7. (N) 10" FPVC DR 18 RECYCLED WATER MAIN IN 14" FPVC DR 18 CASING INSTALLED VIA HDD. SEE PROFILE.
  8. (N) GATE VALVE, SIZE PER ADJOINING PIPE, UNO. SEE DETAIL 3 ON DRAWING C-502.
  9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
  10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
  11. (N) TEE, SIZE PER ADJOINING PIPE, UNO.
  12. (N) CROSS, SIZE PER ADJOINING PIPE, UNO.
  13. (N) 90° ELBOW, SIZE PER ADJOINING PIPE, UNO.
  14. (N) 45° ELBOW, SIZE PER ADJOINING PIPE, UNO.
  15. (N) 22.5° ELBOW, SIZE PER ADJOINING PIPE, UNO.
  16. (N) 11.25° ELBOW, SIZE PER ADJOINING PIPE, UNO.
  17. (N) AIR RELEASE VALVE AT HIGH POINT IN WATER MAIN. SEE DETAIL 1 ON DRAWING C-505.
  18. PLUG AND ABANDON (E) ABANDONED WATER LINE. SEE DETAIL 4 ON DRAWING C-501.
  19. (N) RESTRAINED MECHANICAL PLUGS WHERE SHOWN ON PLAN.
  20. (N) BACKFLOW PREVENTER AND PRESSURE REDUCER. SEE DETAIL 4 ON DRAWING C-502.
  21. (N) REDUCER, SIZE PER ADJOINING PIPE, UNO.

CONFORMED DRAWINGS				CB	MK	3/25/2026
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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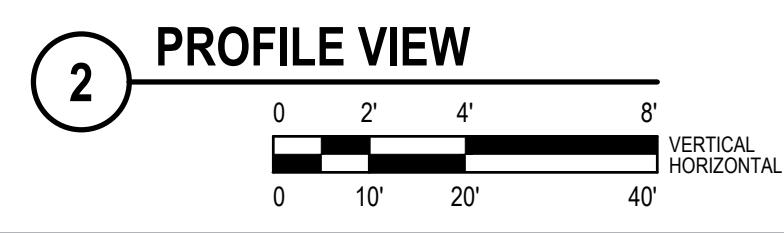
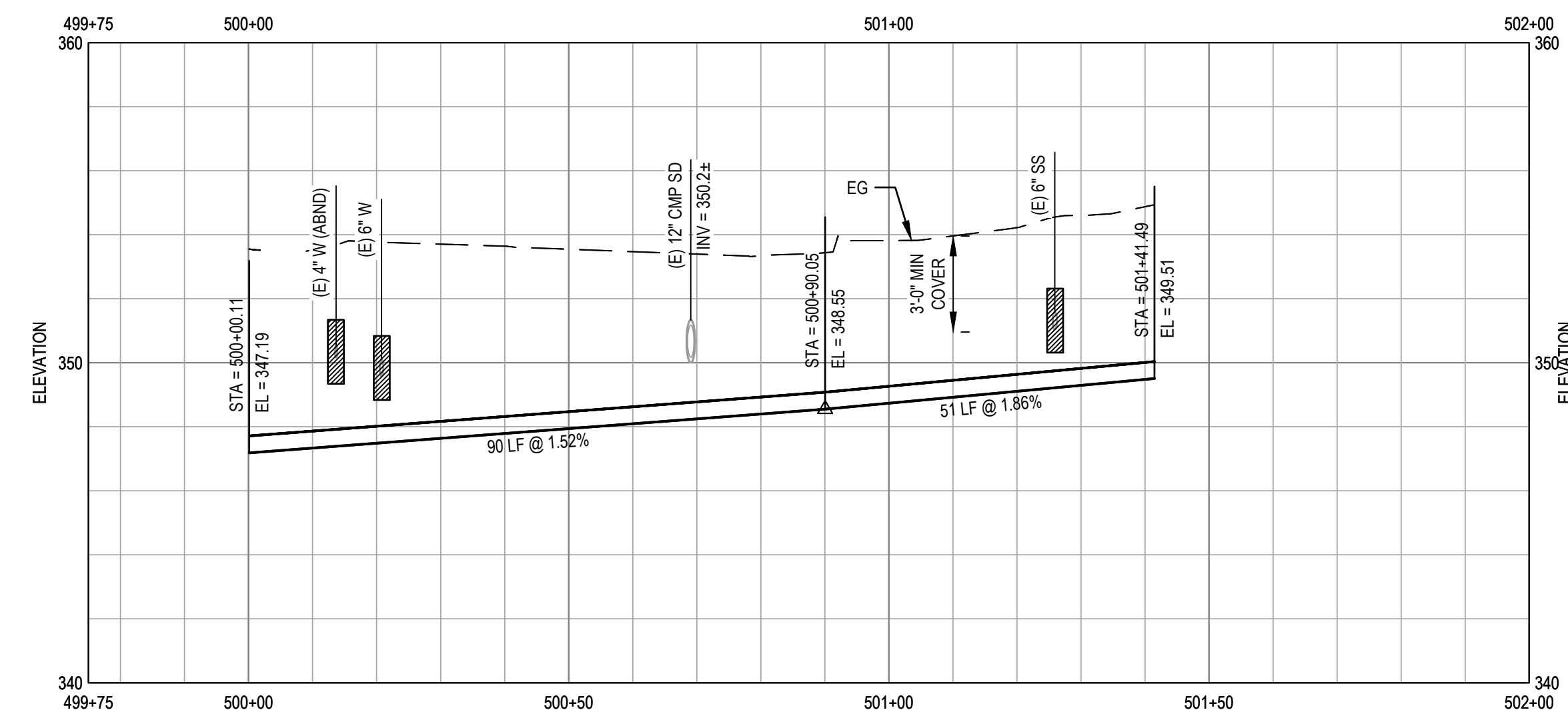
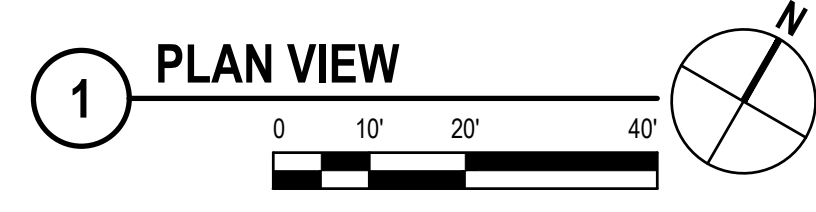
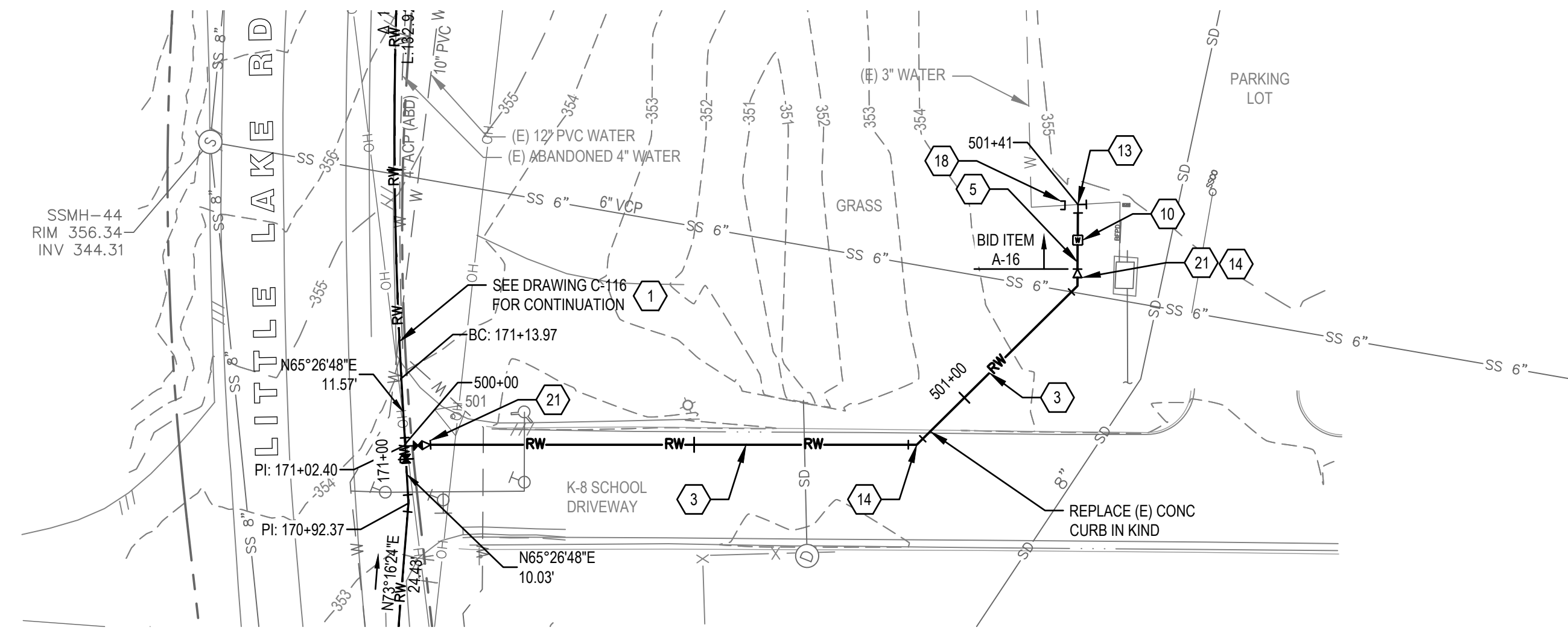
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 400+00 TO 402+37		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-124		
Sheet	31 of 53		

**SHEET GENERAL NOTES**

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9. FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

**SHEET KEYNOTES**

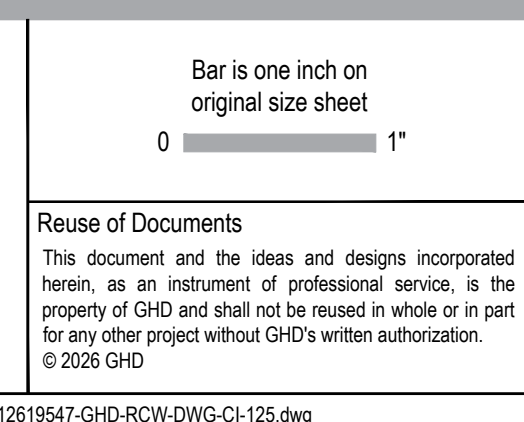
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9. (N) FIRE HYDRANT. SEE DETAIL 2 ON DRAWING C-502.
10. (N) WATER SERVICE METER. SEE DETAIL 2 ON DRAWING C-505.
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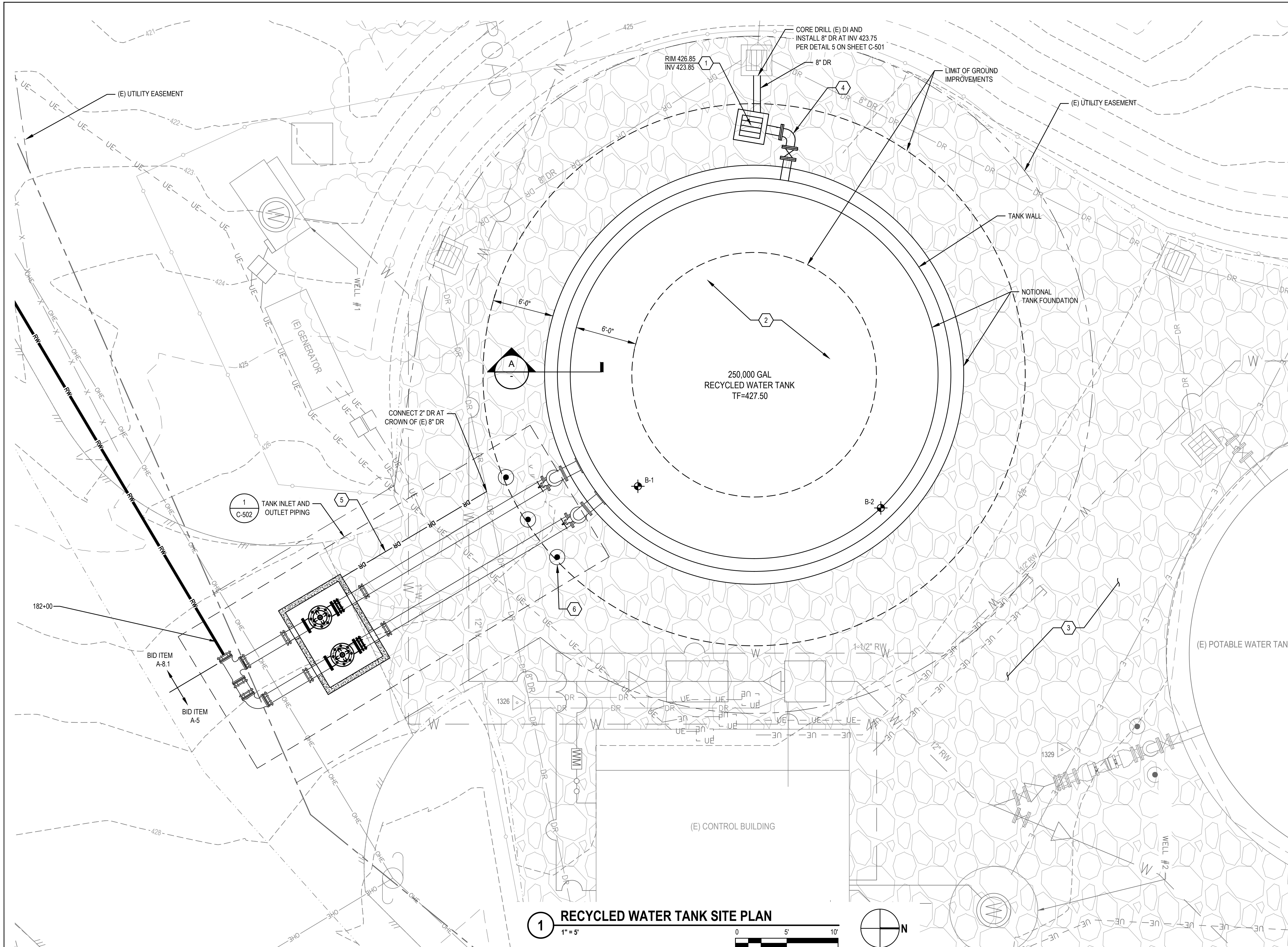
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER LINE - STA 500+00 TO 501+41		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	C-125		
Sheet	32	of	53

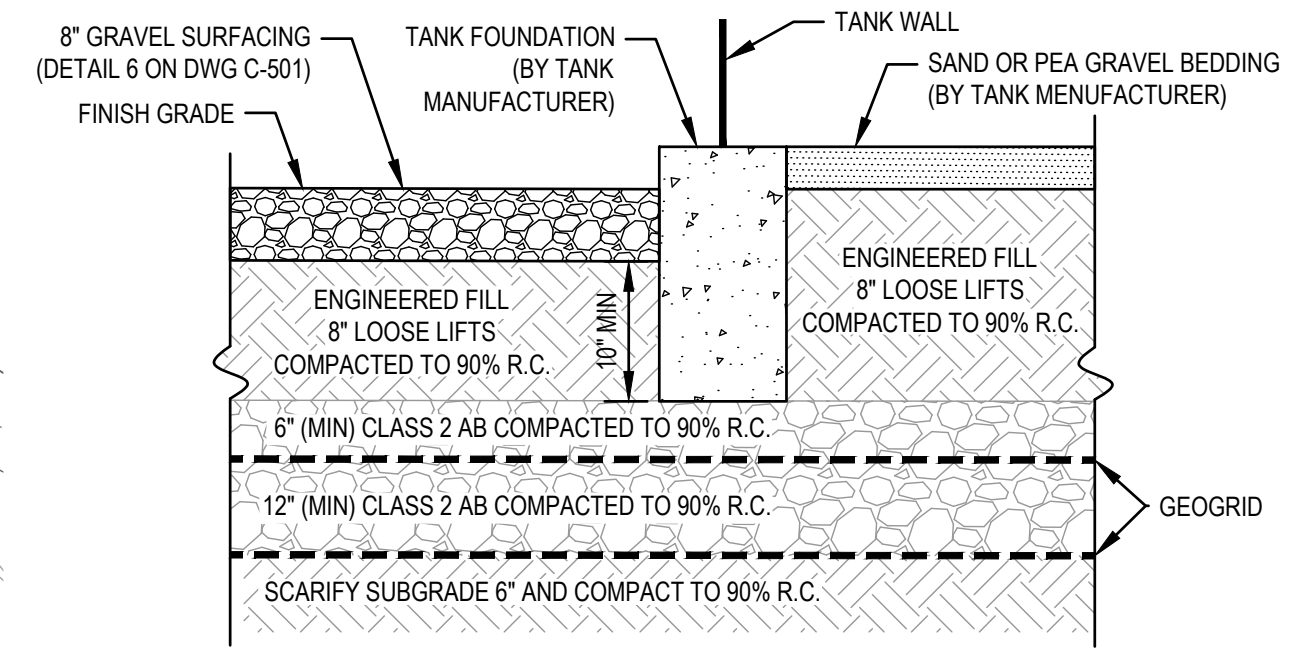


**1 RECYCLED WATER TANK SITE PLAN**  
1" = 5'

- ### SHEET GENERAL NOTES
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  - FROM STATION 138+00 TO WEST, CONTRACTOR TO LOCATE STREET LIGHTING CONDUIT AND CABLE.

- ### SOIL IMPROVEMENT AND EXCAVATION NOTES
- SOILS UNDER AND AROUND THE (N) TANK FOUNDATION (TANK PAD) SHALL BE OVEREXCAVATED TO THE LIMITS SHOWN ON THIS DRAWING AND TO A DEPTH OF AT LEAST 18" BELOW THE BOTTOM OF THE TANK FOUNDATION. THE EXPOSED SUBGRADE SHALL BE LEVEL. THE SUBGRADE SHALL BE SCARIFIED 6", MOISTURE CONDITIONED TO NEAR OPTIMAL, AND COMPACTED TO AT LEAST 90% R.C. IN ACCORDANCE WITH ASTM D1557. THE TANK PAD SHALL BE RECONSTRUCTED, BACKFILLED AND COMPACTED AS SHOWN ON DETAIL A ON THIS DRAWING.
  - ALL SUBGRADE, BACKFILLS AND FILLS SHALL BE MOISTURE CONDITIONED TO SLIGHTLY ABOVE THE OPTIMUM, PLACED IN HORIZONTAL LIFTS NO MORE THAN 8 INCHES THICK AND COMPACTED TO AT LEAST 90% R.C. IN ACCORDANCE WITH ASTM D1557.
  - ANY LOOSE OR SOFT AREAS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER PRIOR TO BEING STABILIZED. LOOSE OR SOFT AREAS SHALL BE STABILIZED BY EXCAVATING TO FIRM, NATIVE MATERIAL AND REPLACING WITH ENGINEERED FILL.
  - SEE SPECIFICATION SECTION 33 16 13 FOR TANK REQUIREMENTS INCLUDING NOTIONAL DRAWINGS OF TANK FLOOR, ROOF, ELEVATIONS, SECTIONS AND DETAILS. FINAL TANK AND FOUNDATION DESIGN BY CONTRACTOR.
  - ALL UNDERGROUND WATER PIPES 4" AND LARGER SHALL HAVE RESTRAINED JOINTS AS SPECIFIED IN SECTION 33 11 00.
  - INSTALL (N) PIPES IN TRENCHES IN ACCORDANCE WITH DETAIL 2 ON DRAWING C-501.

- ### SHEET KEYNOTES
- PROVIDE (N) DRAINAGE INLET. SEE DETAIL 4 DRAWING C-504.
  - SALVAGE (E) GRAVEL SURFACING WITHIN (N) RECYCLED WATER TANK FOOTPRINT AND A SUFFICIENT DISTANCE OUT FROM (N) FOUNDATION EDGE, AS REQUIRED TO CONSTRUCT FOUNDATION. CUT (E) SUBGRADE ENHANCEMENT GEOTEXTILE AT EDGE OF GRAVEL REMOVAL LIMITS. RESTORE GRAVEL SURFACING AROUND (N) RECYCLED WATER TANK FOLLOWING COMPLETION OF SITE IMPROVEMENTS IN ACCORDANCE WITH DETAIL 6 ON DRAWING C-501. DISPOSE OF EXCESS GEOTEXTILE.
  - SPREAD AND CONSOLIDATE REMAINING SALVAGED GRAVEL AROUND TANK SITE AS DIRECTED BY ENGINEER.
  - TANK OVERFLOW AND DRAIN PIPING. SEE DETAIL 4 DRAWING C-505.
  - PROVIDE 2" SCH 40 PVC VAULT DRAIN AND 1-1/2" SCH 40 PVC ACCESS COVER DRAIN IN COMMON TRENCH.
  - PROVIDE REMOVABLE BOLLARD (TYP OF 3), SEE DETAIL 6 ON DRAWING C-502.

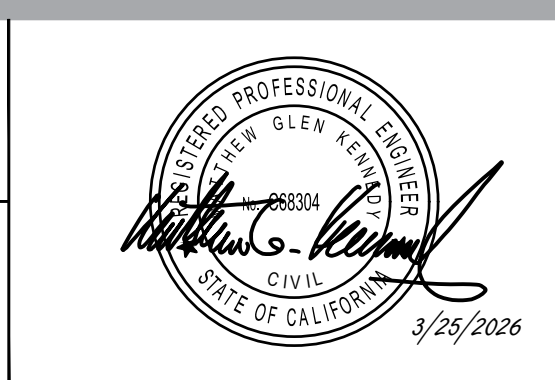


**A RECYCLED WATER TANK PAD SECTION**  
N.T.S.

No.	Issue	Drawn	Approved	Date
		CB	MK	3/25/2026

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0 5' 10'

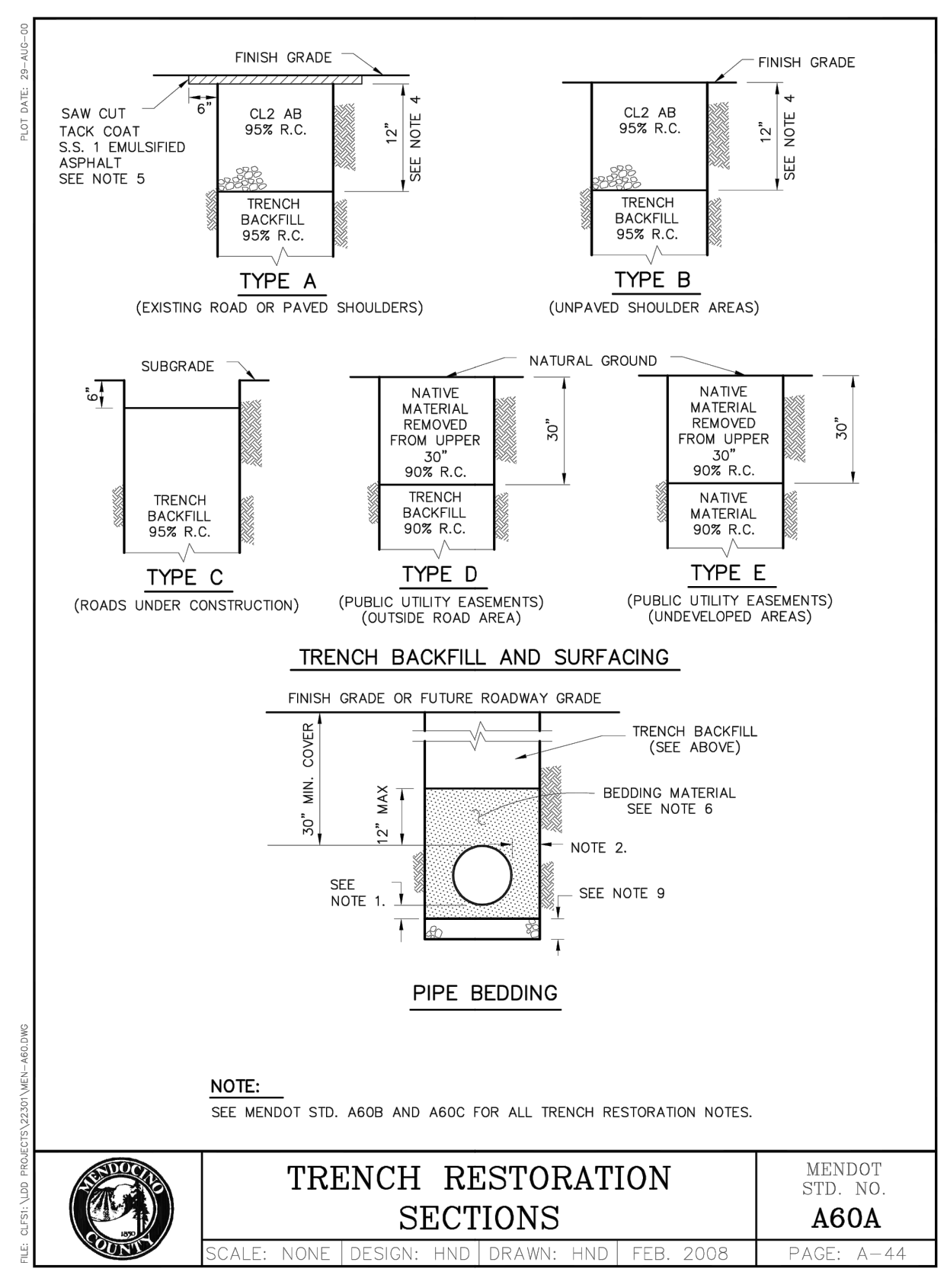
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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	RECYCLED WATER TANK SITE PLAN
Project No.	12619547
Original Size	ANSI D
Drawing No.	C-401
Sheet	33 of 53



**TRENCH RESTORATION NOTES:**

- BEDDING BELOW PIPE SHALL BE AS REQUIRED BY UTILITY OR AGENCY THAT OWNS THE FACILITY.
- 12" MIN., OR 6" MIN. IF SLURRY CEMENT BACKFILL IS USED. SEE NOTE 10.
- RELATIVE COMPACTION DESIGNATED R.C.
- THE MINIMUM ROAD STRUCTURAL SECTION SHALL BE A MIN. OF 3" A.C. ON 12" CL 2 A.B. OR SHALL MATCH EXISTING PAVEMENT THICKNESS. WHICHEVER IS THICKER, UNLESS OTHERWISE SHOWN ON THE PLANS. STRUCTURAL SECTION IN SHOULDERS SHALL MATCH EXISTING AND SHALL BE A MIN. OF 8" CL 2 A.B.
- NEATLY CUT PAVEMENT SIX INCHES FROM EDGE OF TRENCH AFTER TRENCH IS BACKFILLED. S51 DESIGNATES S51 ASPHALTIC EMULSION PER CALTRANS STANDARD SPECIFICATION, SECTION 94, ASPHALTIC EMULSION.
- MATERIAL SPECIFICATIONS**
- DRAIN ROCK SHALL BE EITHER OF THE NOMINAL SIZES DESIGNATED AS 1-1/2" BY 3/4" OR 2-1/2" BY 1-1/2".
- PIPE BEDDING AND TRENCH BACKFILL MATERIAL SHALL BE A WELL GRADED GRAVEL/SAND MATERIAL AND SHALL HAVE A MINIMUM SAND EQUIVALENT VALUE OF 20 AND SHALL CONFORM TO THE FOLLOWING GRADINGS:
 

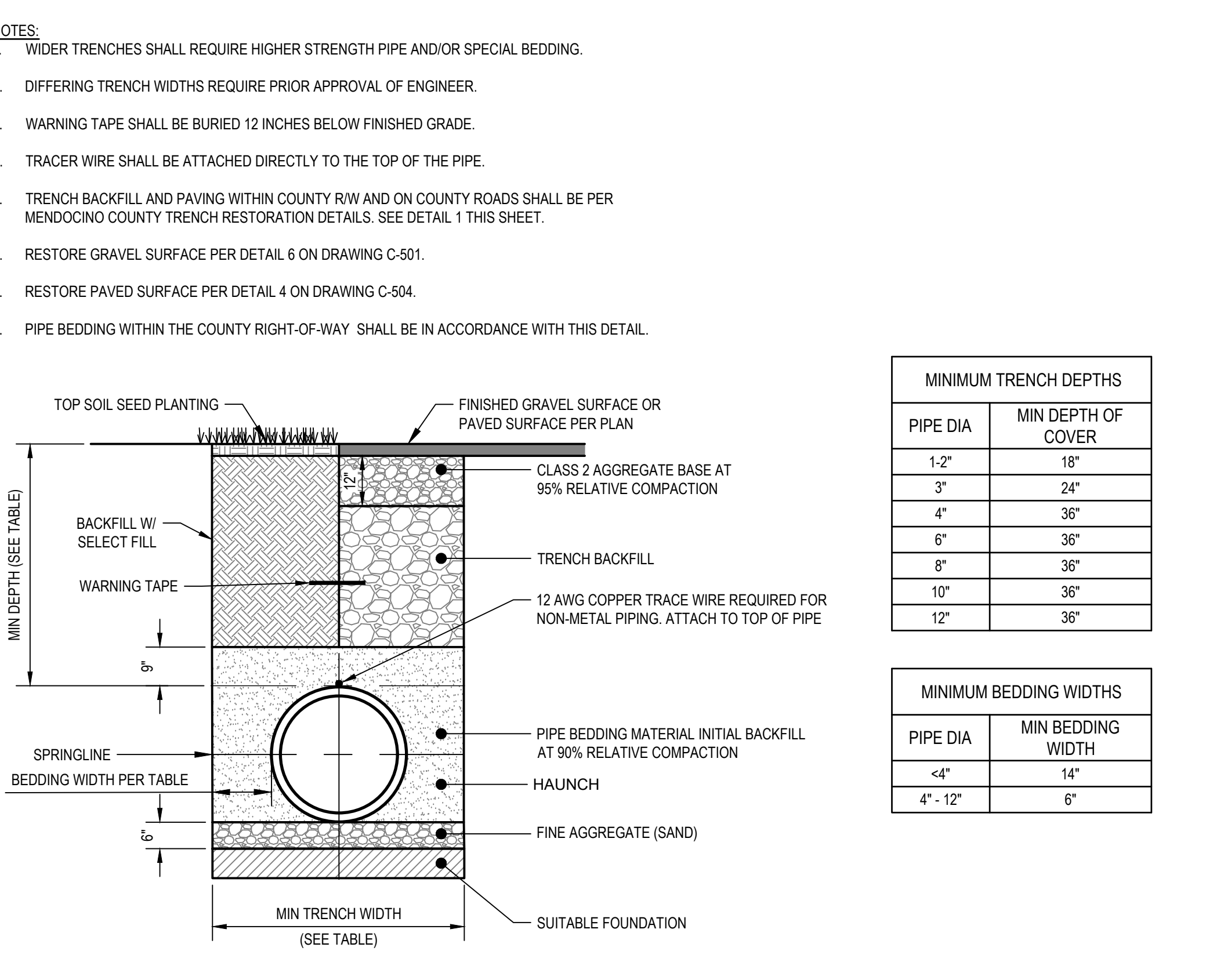
PERCENT PASSING					
	3"	3/4"	3/8"	NO. 4	NO. 10
PIPE BEDDING	100	80-100	10-50	5-30	0-4
TRENCH BACKFILL	100	35-100		20-100	
- IN ADDITION, WHEN TESTED WITH THE FOLLOWING SERIES OF SIEVES, NO MORE THAN 25% OF THE MATERIAL WILL BE RETAINED BETWEEN ANY ADJACENT SIEVES: 3", 2-1/2", 2", 1-1/2", 1", 3/4", 1/2", 3/8", NO. 4, NO. 8, NO. 16, NO. 30, NO. 50, NO. 100, AND NO. 200.
- AGGREGATE BASE** CL 2 A.B. DESIGNATES CLASS 2 AGGREGATE BASE AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26 OF THE COUNTY STANDARD SPECIFICATIONS.
- NATIVE MATERIAL** SHALL NOT CONTAIN ROCKS LARGER THAN 3".

**TRENCH RESTORATION NOTES (CONTINUED)**

- COMPACTION REQUIREMENTS:** (AS SHOWN ON A60A AND IN THE FOLLOWING MODIFICATIONS)
- DRAIN ROCK** SHALL BE CONSOLIDATED WITH VIBRATORY COMPACTION EQUIPMENT TO A MINIMUM R.C. OF 90%.
- PIPE BEDDING MATERIAL** SHALL BE CONSOLIDATED WITH VIBRATORY COMPACTION EQUIPMENT TO A MINIMUM R.C. OF 90%.
- GENERAL:** THE COMPACTION REQUIREMENTS SHALL BE ACHIEVED UTILIZING METHODS AND EQUIPMENT APPROVED BY THE COUNTY. ANY METHOD OF COMPACTION WHICH FAILS TO UNIFORMLY ACHIEVE THE REQUIRED LEVELS OF COMPACTION THROUGHOUT THE LENGTH AND DEPTH OF TRENCHES SHALL BE DISCONTINUED. COMPACTION METHODS AND EQUIPMENT SHALL BE SUCH AS NOT TO DAMAGE THE INSTALLED PIPE, EXCEED ITS LOADING CAPACITY OR DISTURB ITS ALIGNMENT. FLOODING, PONDING OR JETTING WILL NOT BE ALLOWED.
- MECHANICAL COMPACTION:** TRENCH BACKFILL SHALL BE PLACED IN UNIFORM, HORIZONTAL LAYERS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS BEFORE COMPACTION. EACH LAYER SHALL BE COMPACTED, USING MECHANICAL MEANS, TO THE SPECIFIED DENSITY SHOWN ON THE PLANS.

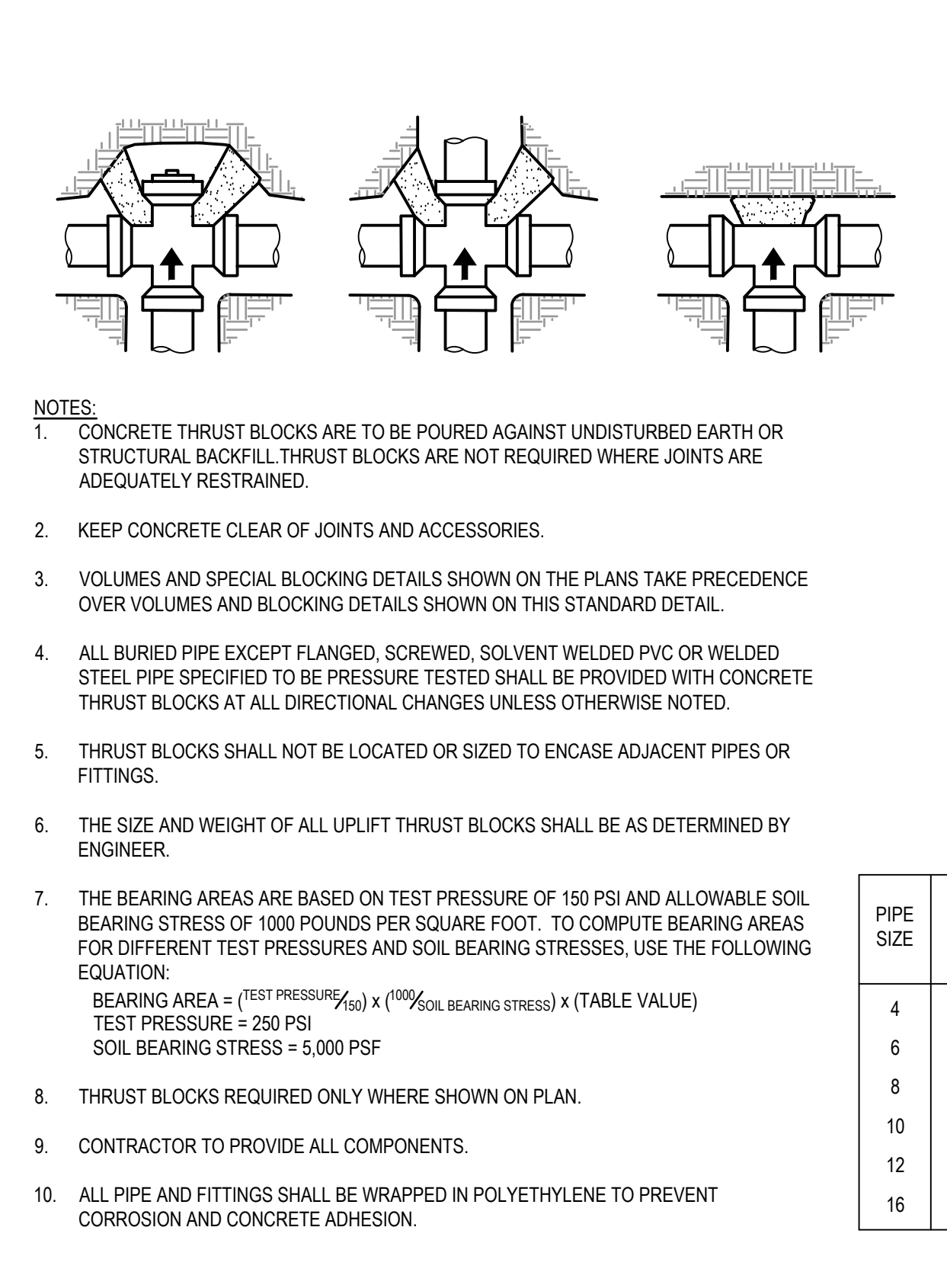
THE CONTRACTOR MAY, AT CONTRACTOR'S SOLE OPTION AND AT CONTRACTOR'S SOLE EXPENSE, CONSTRUCT A TEST TRENCH SECTION WHICH DEMONSTRATES METHODS, EQUIPMENT, OR MATERIALS WHICH WILL RELIABLY ACHIEVE THE REQUIRED COMPACTION IN LIFTS GREATER THAN 8 INCHES. AT ITS SOLE DISCRETION, THE COUNTY MAY INCREASE THE MAXIMUM ALLOWABLE LIFT THICKNESS PERMITTED BASED UPON THE RESULTS DEMONSTRATED BY THE TEST TRENCH SECTION. SHOULD SUBSEQUENT TESTING DEMONSTRATE THAT THE REQUIRED COMPACTION IS NOT BEING RELIABLY ACHIEVED, THE COUNTY MAY, AT ITS SOLE DISCRETION, REDUCE THE MAXIMUM LIFT THICKNESS TO ITS ORIGINAL VALUE OF 8 INCHES.

- TRENCHING METHODS:** ROCK WHEEL TRENCHING SHALL BE ALLOWED FOR TRENCH CONSTRUCTION IN COUNTY ROADS. INSTALLATION OF CABLE USING THE PLOW METHOD SHALL NOT BE ALLOWED.
- TRENCH BASE:** TRENCH BASE SHALL BE STABILIZED USING ADDITIONAL PIPE BEDDING, DRAIN ROCK, OR OTHER SUITABLE MATERIAL AS DIRECTED BY UTILITY, COUNTY DOT, OR CIVIL ENGINEER IN RESPONSIBLE CHARGE OF THE WORK.
- SLURRY CEMENT BACKFILL:** SLURRY CEMENT BACKFILL MAY BE USED FOR TRENCH BACKFILL ONLY AS AUTHORIZED BY COUNTY DOT, BUT SHALL BE REQUIRED WHEN TRENCH WIDTHS OF LESS THAN 12 INCHES ARE REQUESTED. SLURRY CEMENT BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 19-3.062, SLURRY CEMENT BACKFILL OF THE CALTRANS STANDARD SPECIFICATIONS, UNLESS COUNTY DOT DIRECTOR APPROVES A SPECIFIC MIX DESIGN.



**1 MENDOCINO COUNTY TRENCH RESTORATION REQUIREMENTS**

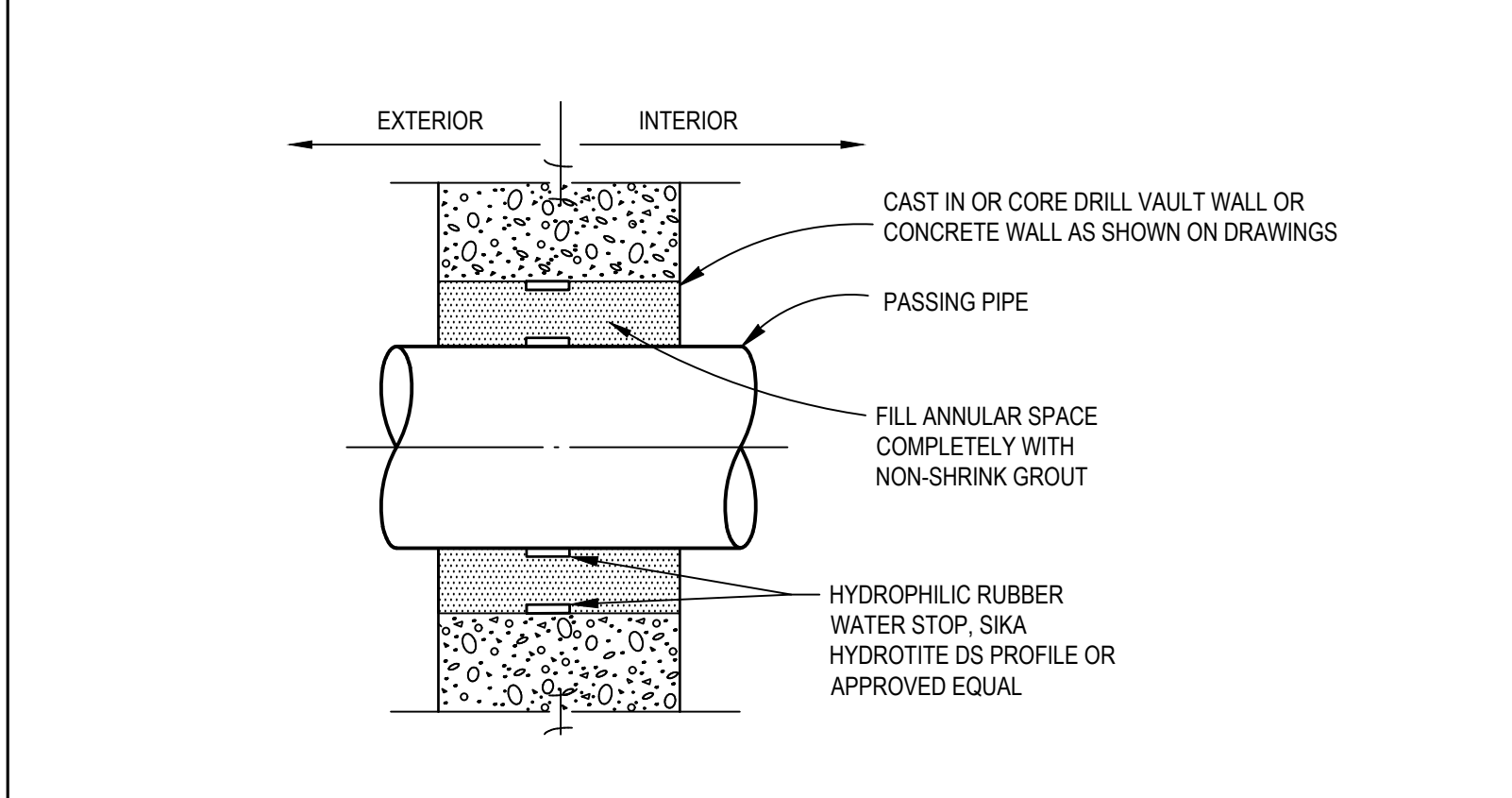
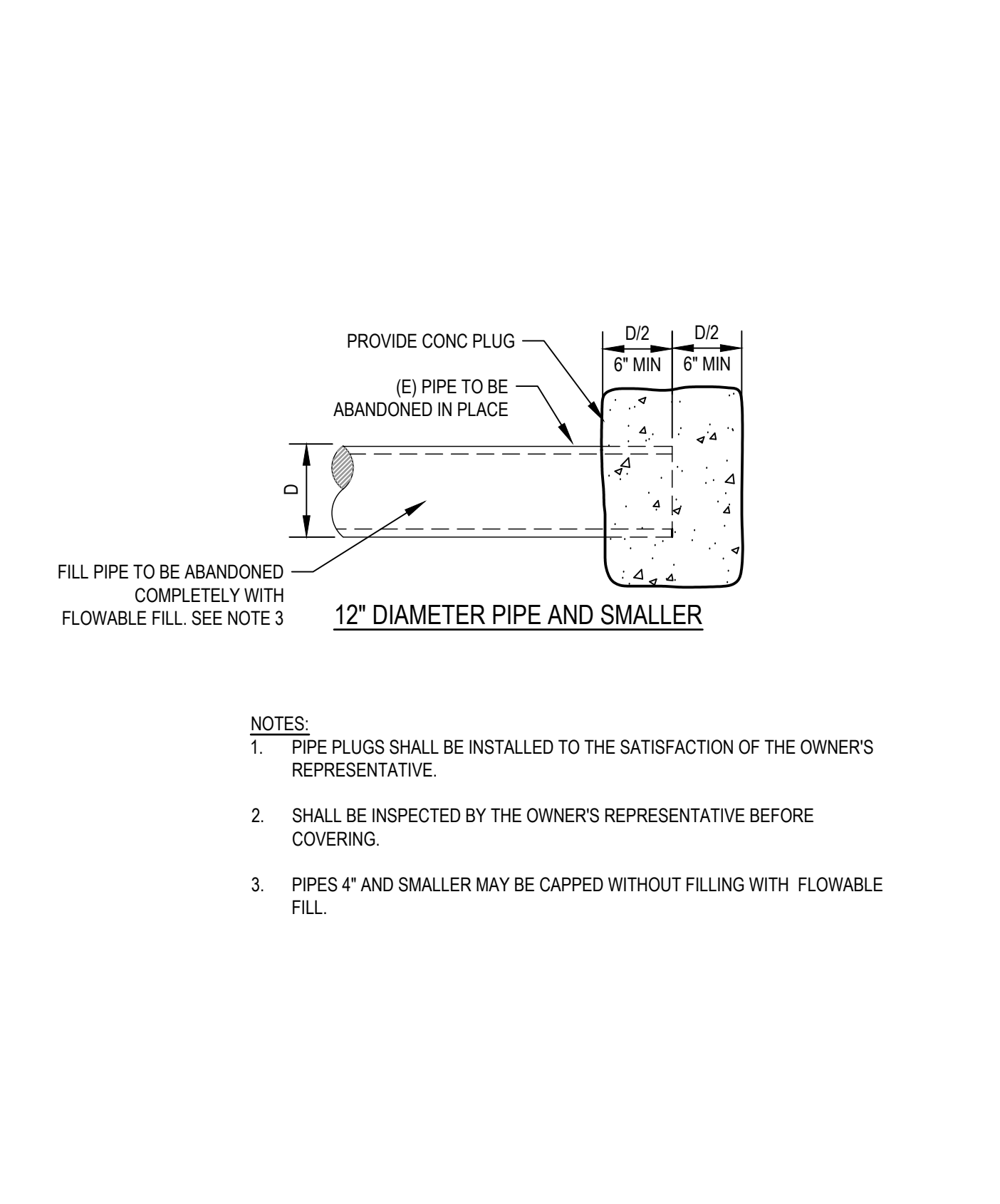
**2 TYPICAL TRENCH SECTION**



**BEARING AREA OF THRUST BLOCK IN SQ. FT. (SEE NOTE 7)**

PIPE SIZE	TEE, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED		45° BEND	22 1/2° BEND	11 1/4° BEND
			A1	A2			
4	1.5	2	2	1.5	1.5	1	1
6	3	4.5	4.5	3	2.5	1.5	1
8	5	7	7	5	4	2	1
10	8	12	12	8	7	3	2
12	12	17	17	12	10	5	3
16	15	21.5	21.5	15	12	6	4

PIPE SIZE	TEE, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED		45° BEND	22 1/2° BEND	11 1/4° BEND
			A1	A2			
18	19	27	27	19	15	8	6
20	24	34	34	24	18	10	8
22	29	41	41	29	22	12	10
24	34	48	48	34	26.5	14	12
32	39	55	55	39	31.5	16	14



**3 STANDARD THRUST BLOCK DETAIL**

**4 PLUG AND ABANDON**

**6 GRAVEL SURFACING**

No.	Issue	Drawn	Approved	Date

Bar is one inch on original size sheet  
0 1"

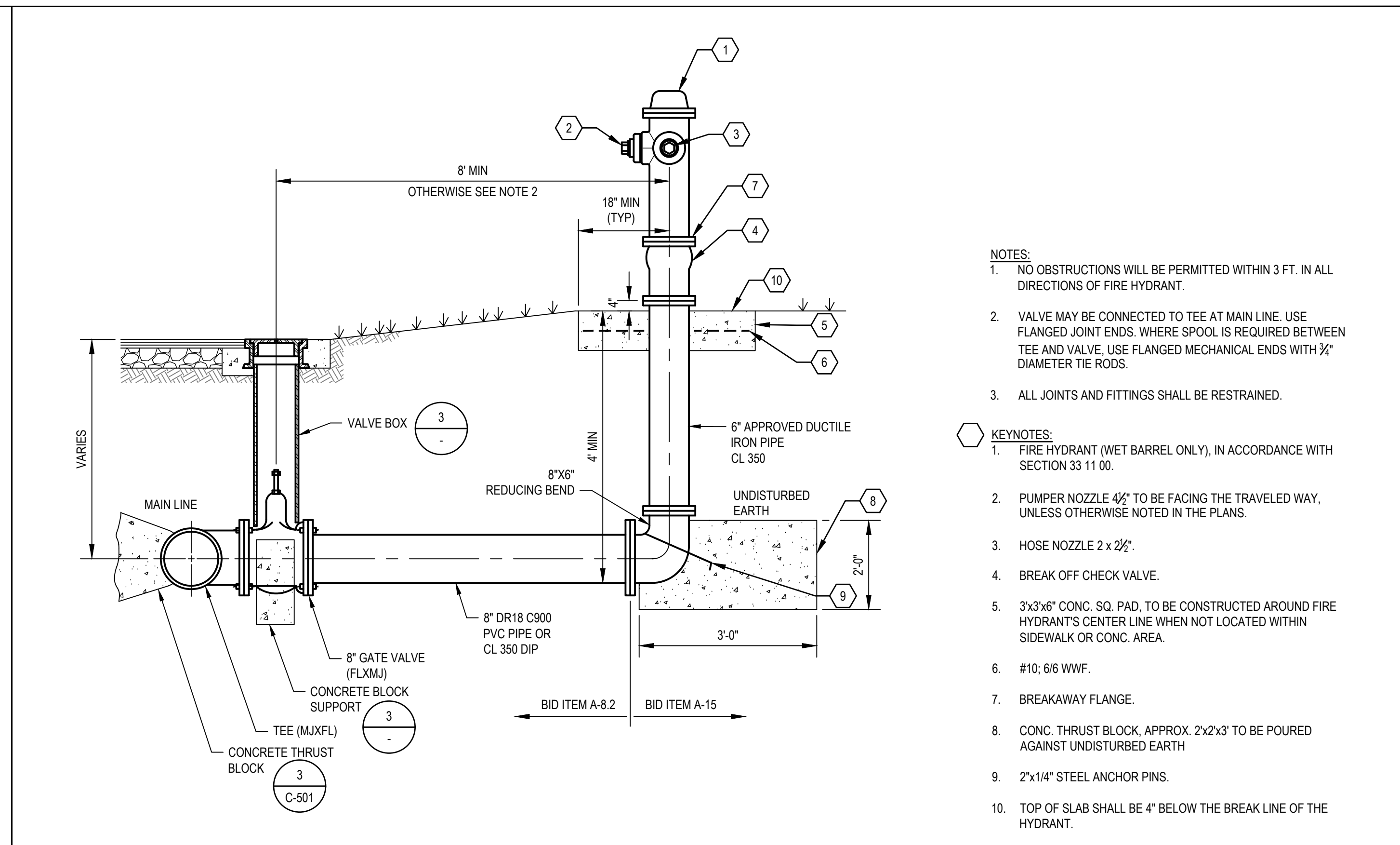
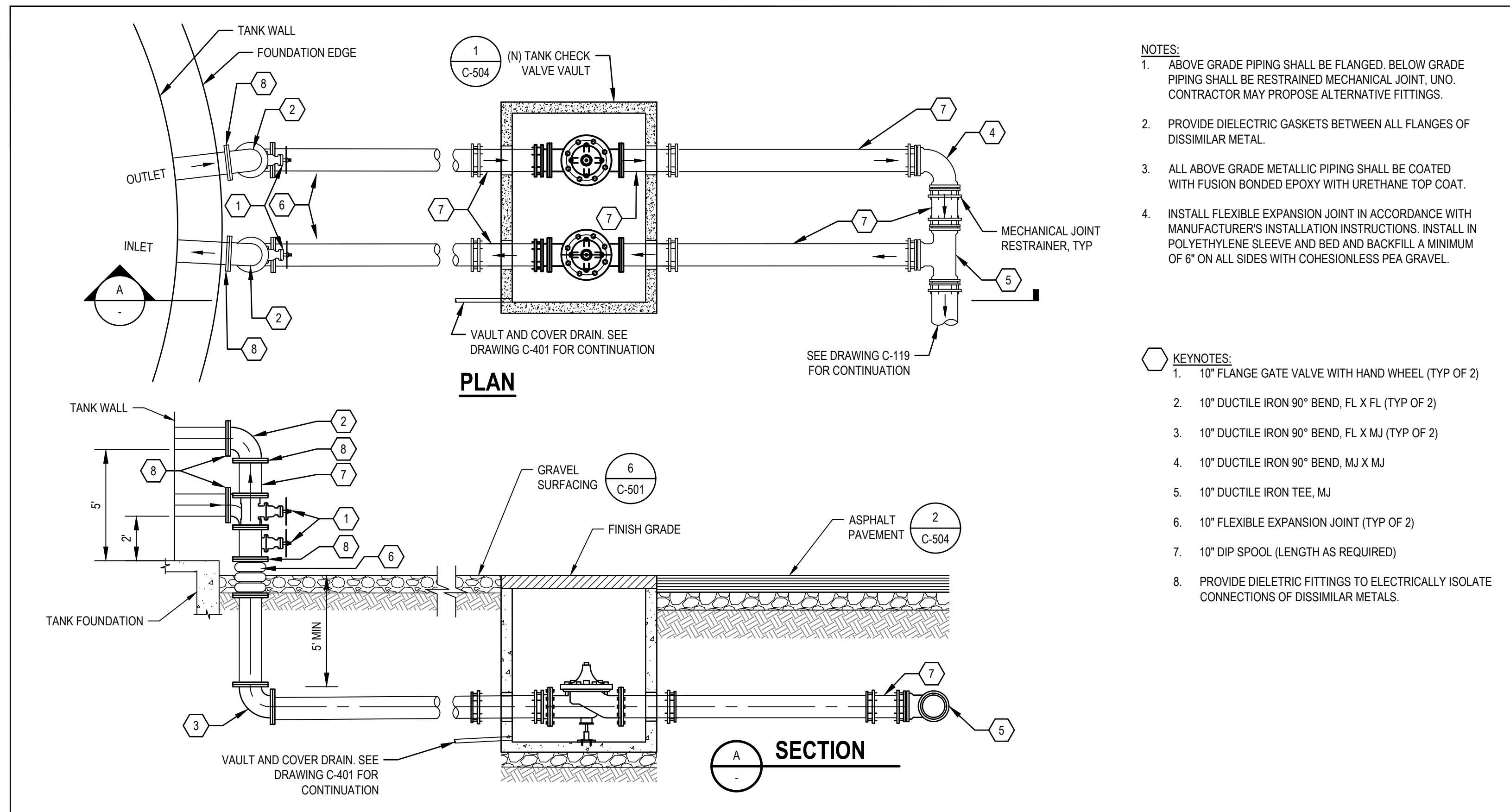
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Professional Engineer Seal for Glen Kennedy, State of California, No. 98334, dated 3/25/2026.

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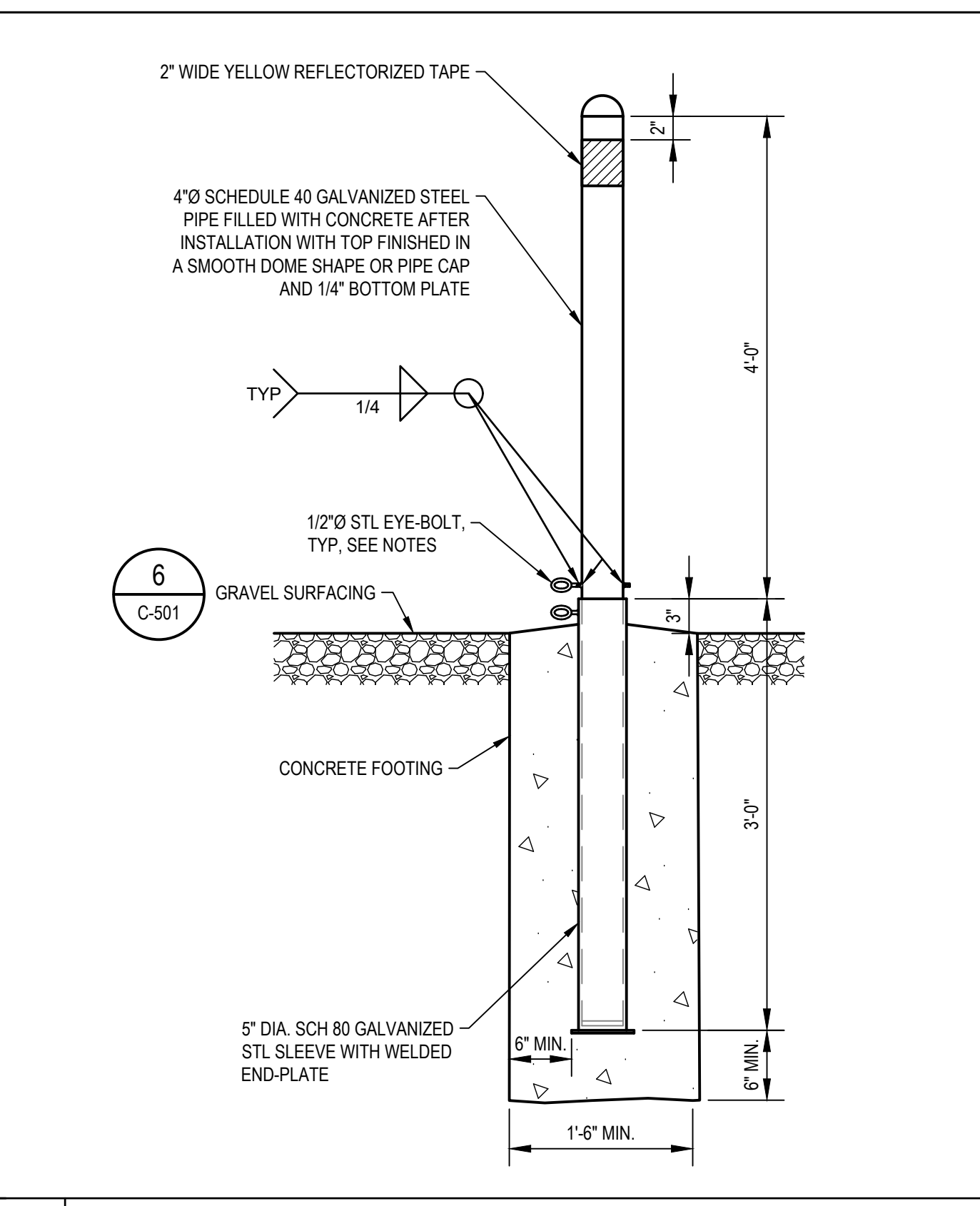
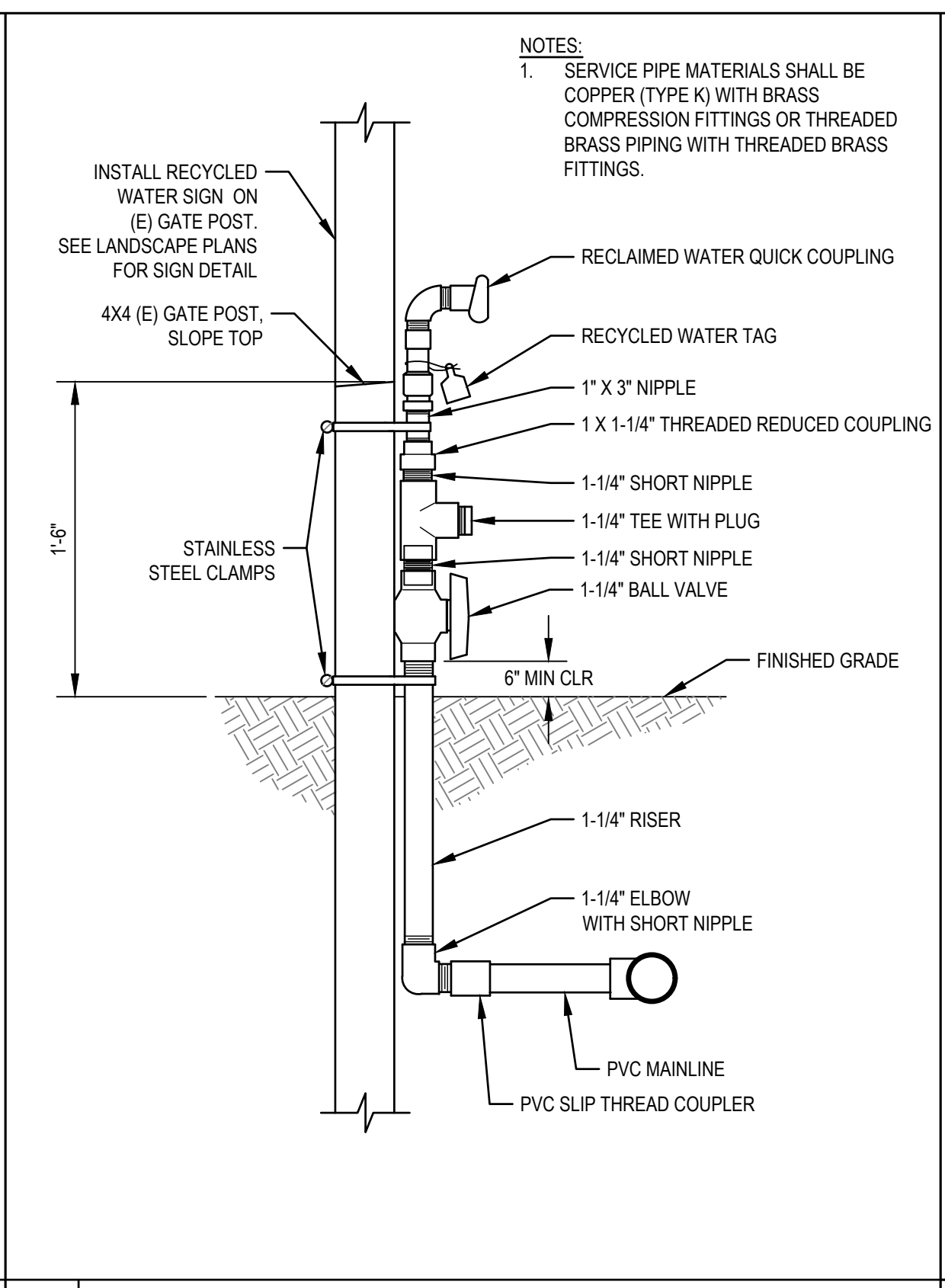
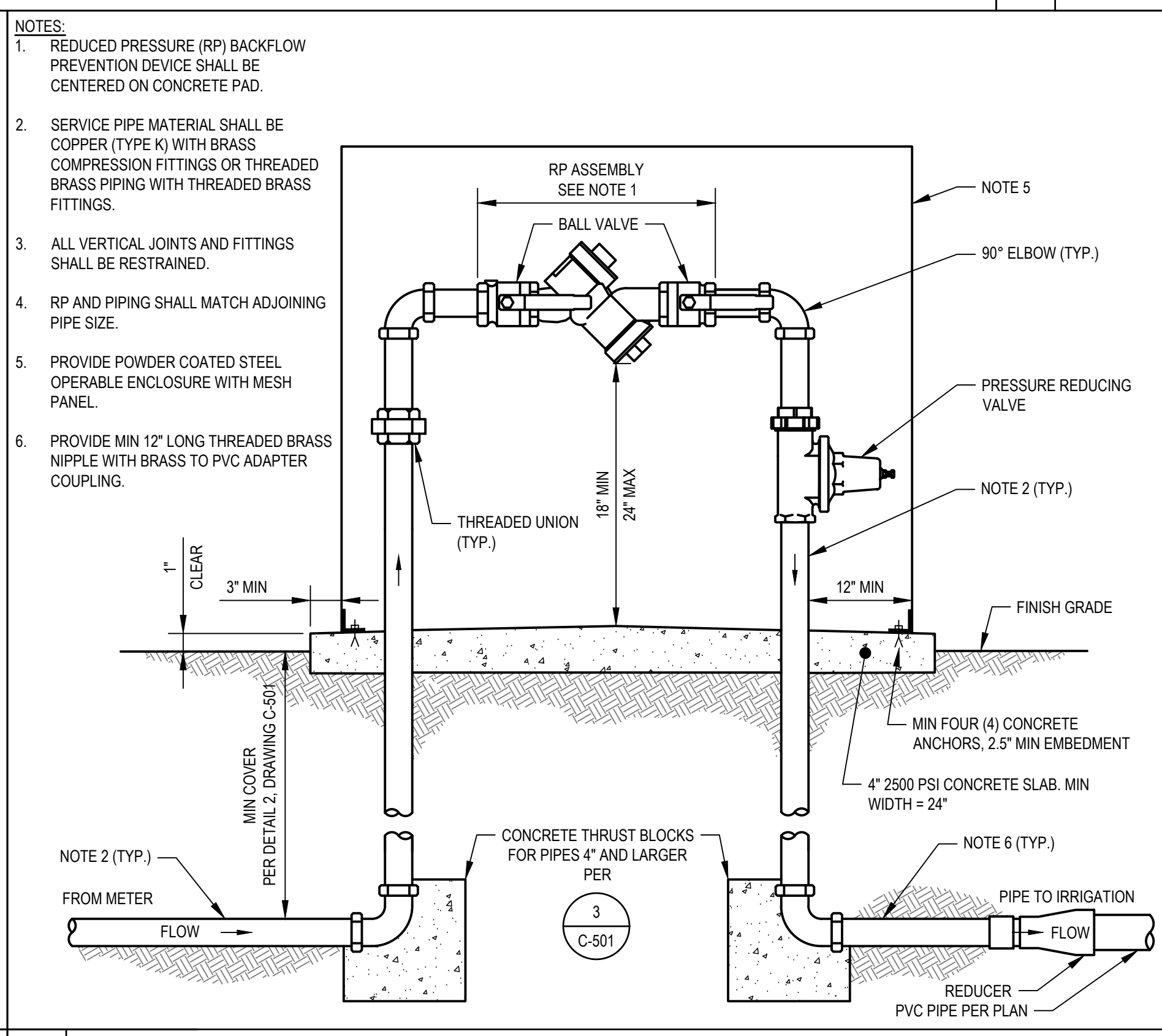
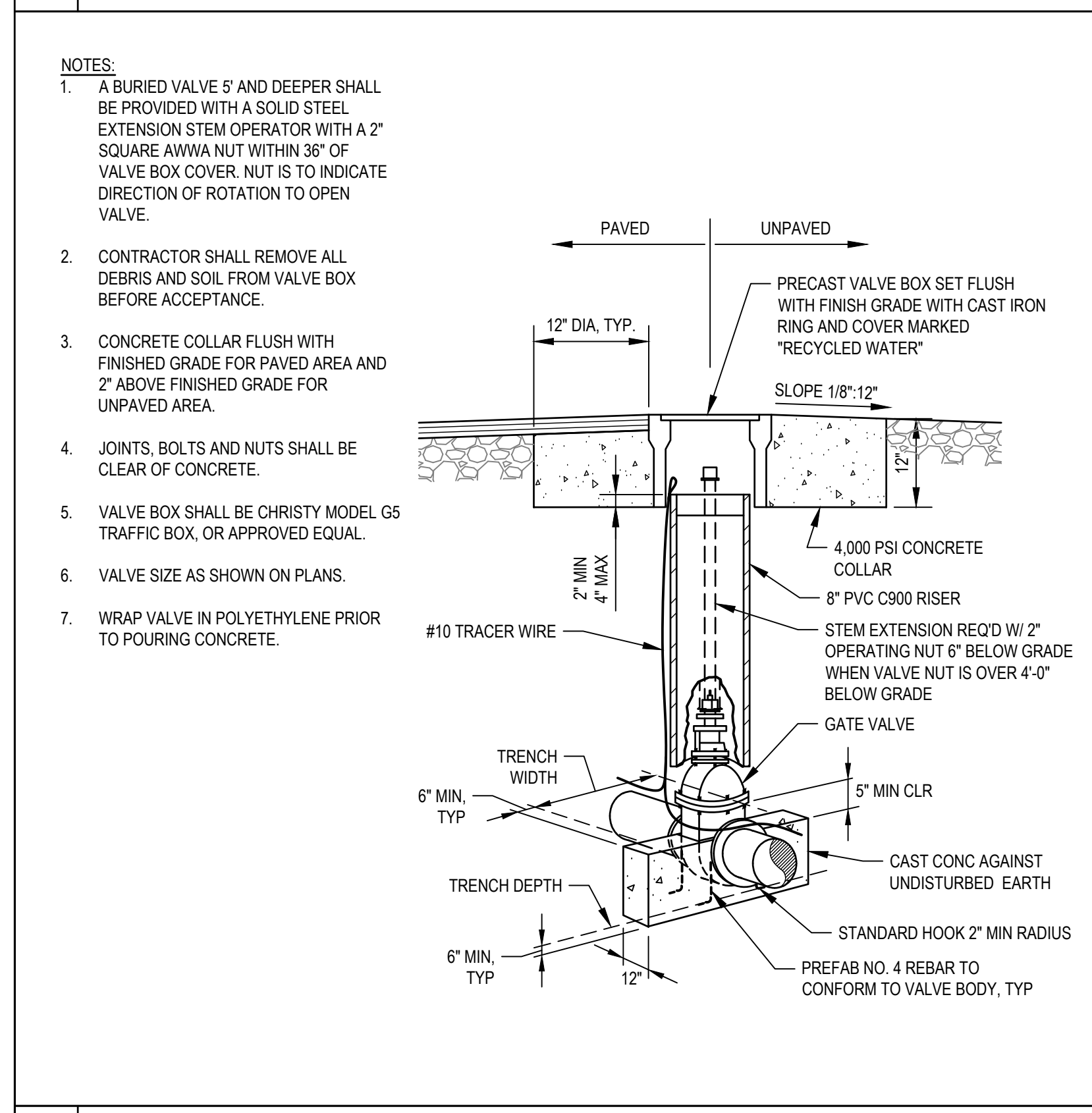
Drawn	D. AGUAS C. BACH	Designer	L. HALONEN
Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026

Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	CIVIL DETAILS 1
Project No.	12619547
Original Size	ANSI D
Scale	AS SHOWN
Drawing No.	C-501
Sheet	34 of 53



1 TANK INLET AND OUTLET PIPING SCALE: 1" = 4'

2 FIRE HYDRANT LATERAL NOT TO SCALE



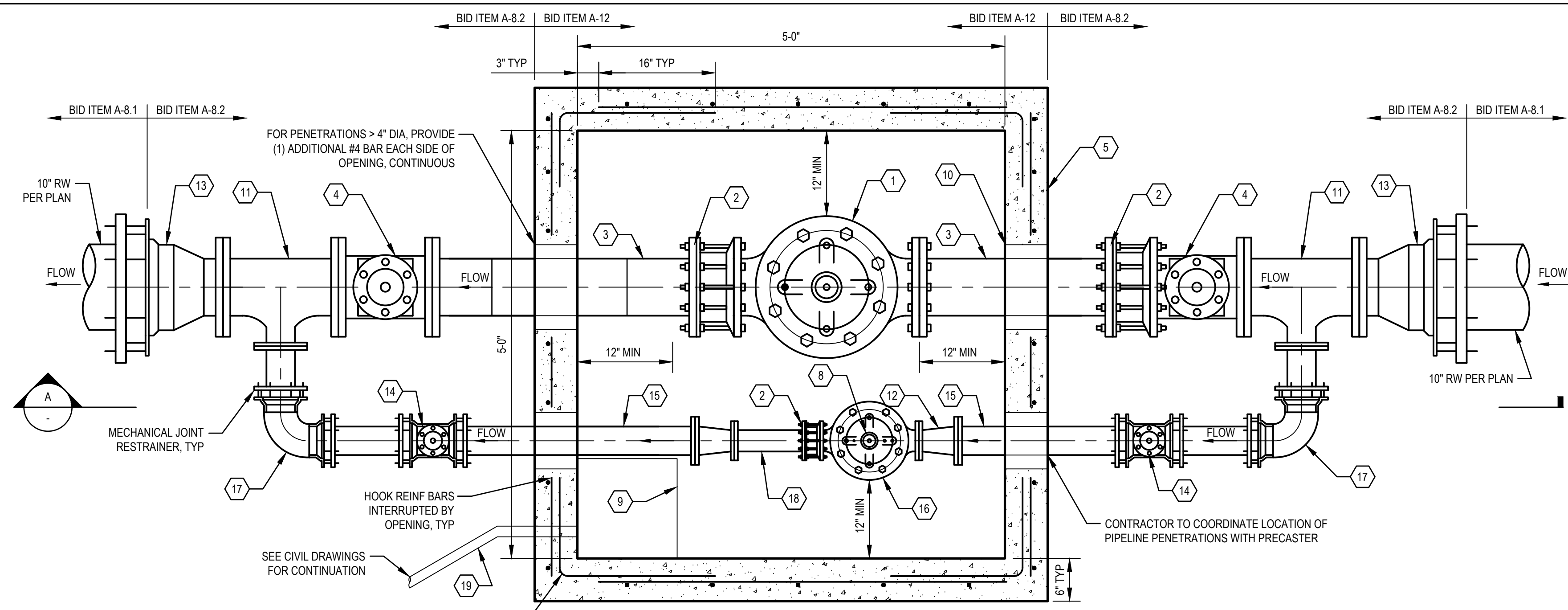
3 GATE VALVE NOT TO SCALE

4 REDUCED PRESSURE BACKFLOW PREVENTER NOT TO SCALE

5 QUICK COUPLING AT GARDEN NOT TO SCALE

6 REMOVABLE BOLLARD NOT TO SCALE

CONFORMED DRAWINGS		CB	MK	3/25/2026	Bar is one inch on original size sheet 0 1"			Drawn D. AGUAS C. BACH	Designer L. HALONEN	Client MENDOCINO CITY COMMUNITY SERVICES DISTRICT Project RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
No.	Issue	Drawn	Approved	Date				Reuse of Documents This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization. © 2026 GHD	Drafting L. HALONEN M. KENNEDY	Design Check M. KENNEDY
									Project No. 12619547	Original Size ANSI D
									Scale AS SHOWN	Drawing No. C-502
									Sheet 35 of 53	

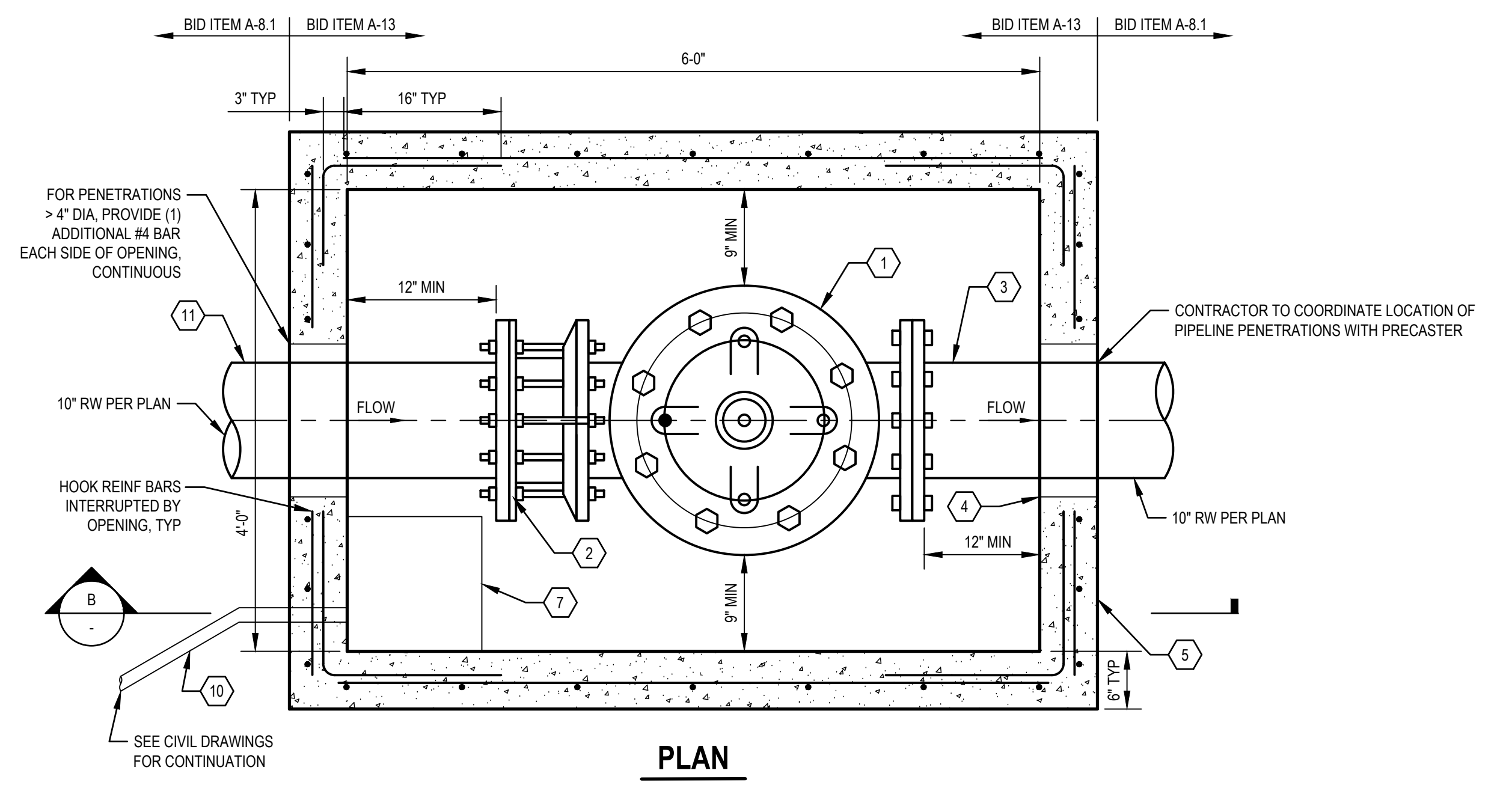


**PLAN**

MATERIAL LIST		
ITEM	QTY	DESCRIPTION
1	1	8" PRV CLA-VAL 90-01 P OR APPROVED EQUAL
2	3	FCA RESTRAINED (MATCH ADJOINING PIPE SIZE)
3	AS REQ'D	8" FL x PE DIP
4	2	8" FL x FL GV PER DETAIL 3, DWG C-502
5	1	5' x 5' ID PRECAST UTILITY VAULT, DEPTH AS REQUIRED (6'-0" MAX)
6	1	5' x 5' DOUBLE LEAF VAULT ACCESS COVER
7	0.8 CY	GRANULAR BEDDING (COMPACTED)
8	2	PIPE SUPPORT, EATON B-LINE SERIES B3088T-2-1/2 AND B3093-8 OR APPROVED EQUAL, VERIFY SIZE
9	1	14" x 14" x 3" SUMP
10	4	WALL PENETRATION PER DETAIL 5, DWG C-501 (TYP)

MATERIAL LIST		
ITEM	QTY	DESCRIPTION
11	2	8" x 4" FL x FL REDUCING TEE
12	2	4" x 3" FL x FL REDUCER
13	2	10" MJ x 8" FL REDUCER
14	2	4" MJ x MJ GV PER DETAIL 3, DWG C-502
15	AS REQ'D	4" FL x PE DIP
16	1	3" PRV, CLA-VAL 90-01 P OR APPROVED EQUAL (THREADED)
17	2	4" 90° MJ ELBOW
18	1	3" FL x PE DIP
19	AS REQ'D	1 1-1/2" SCH 40 PVC DRAIN PIPE, CONNECT TO ACCESS COVER DRAIN

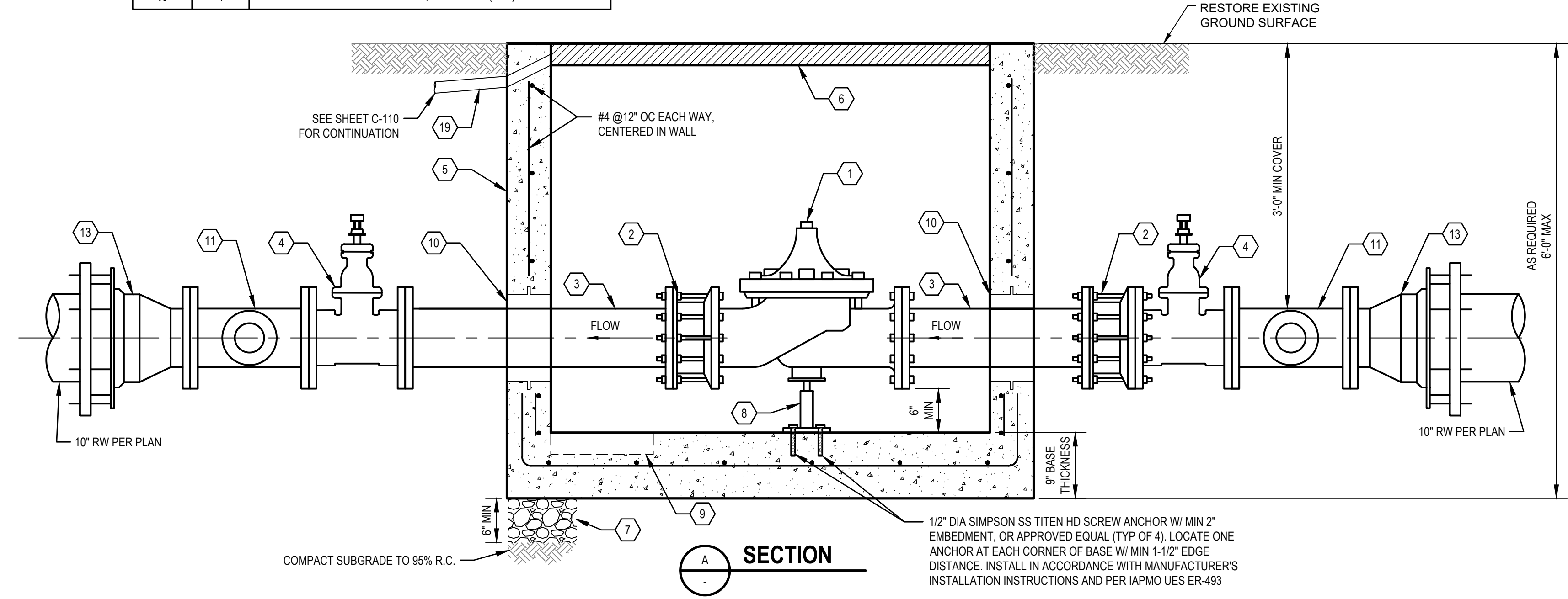
- PRECAST CONCRETE NOTES:**
1. PRECAST CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
  2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
  3. SEE SPECIFICATION SECTION 33 05 17 AND STRUCTURAL GENERAL NOTES ON DWG S-002 FOR ADDITIONAL CONCRETE AND REINFORCING STEEL INFORMATION.
  4. FOR PENETRATIONS < 4" DIA, LOCATE PENETRATIONS 2" CLEAR MIN FROM ALL REINFORCING STEEL.



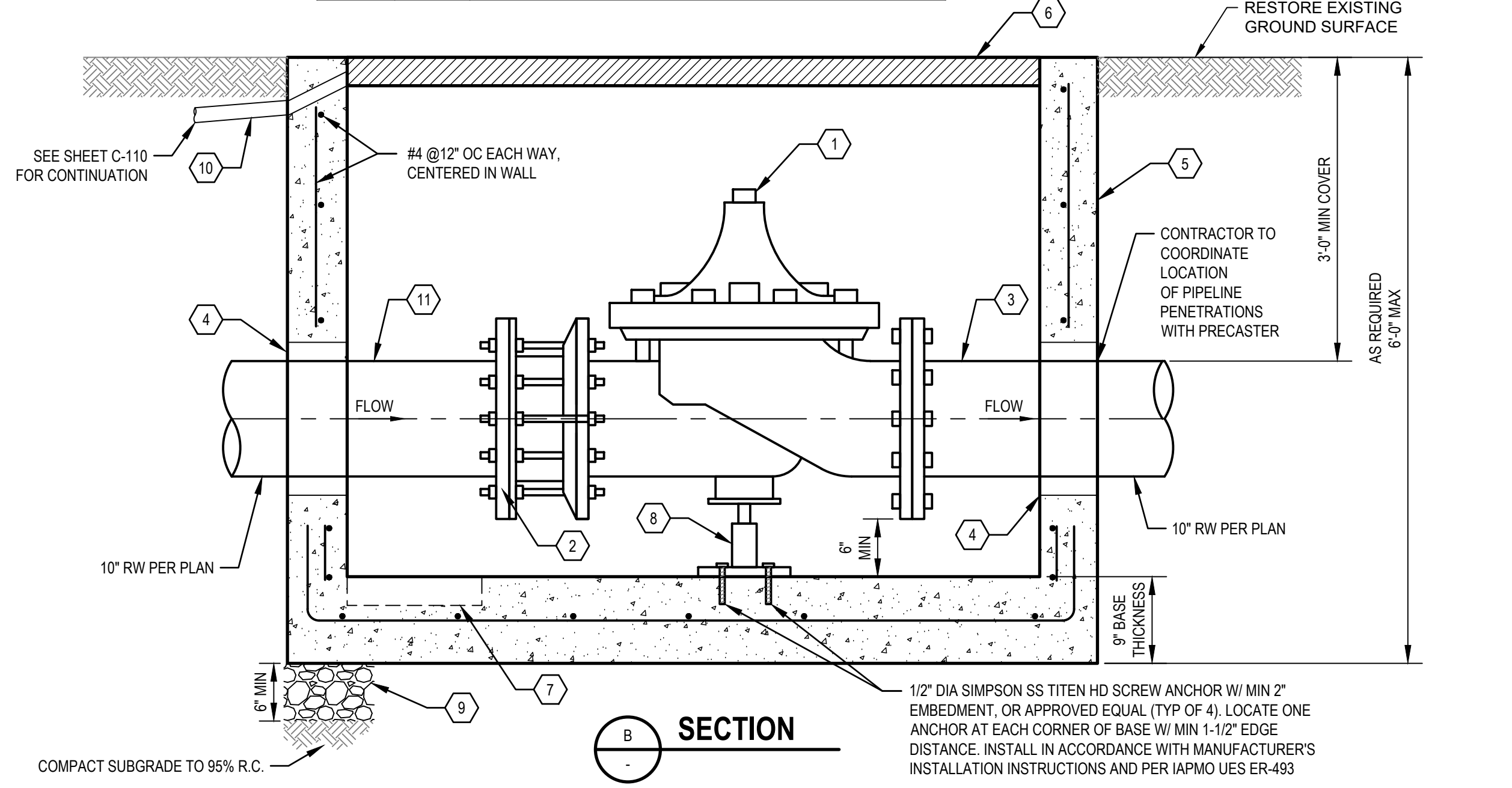
**PLAN**

MATERIAL LIST		
ITEM	QTY	DESCRIPTION
1	1	10" CHECK VALVE CLA-VAL 81-02 OR APPROVED EQUAL
2	1	FCA RESTRAINED (MATCH ADJOINING PIPE SIZE)
3	AS REQ'D	12" FL x PE DIP
4	2	WALL PENETRATION PER DETAIL 5, DWG C-501 (TYP)
5	1	6' x 4' ID PRECAST UTILITY VAULT, DEPTH AS REQUIRED (6'-0" MAX)
6	1	6' x 4' DOUBLE LEAF VAULT ACCESS COVER
7	1	14" x 14" x 3" SUMP
8	1	PIPE SUPPORT, EATON B-LINE SERIES B3088T-2-1/2 AND B3093-8 OR APPROVED EQUAL, VERIFY SIZE
9	0.7 CY	GRANULAR BEDDING (COMPACTED)
10	AS REQ'D	1 1-1/2" SCH 40 PVC DRAIN PIPE, CONNECT TO ACCESS COVER DRAIN
11	1	10" DIP

- PRECAST CONCRETE NOTES:**
1. PRECAST CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
  2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
  3. SEE SPECIFICATION SECTION 33 05 17 AND STRUCTURAL GENERAL NOTES ON DWG S-002 FOR ADDITIONAL CONCRETE AND REINFORCING STEEL INFORMATION.
  4. FOR PENETRATIONS < 4" DIA, LOCATE PENETRATIONS 2" CLEAR MIN FROM ALL REINFORCING STEEL.



**SECTION A-A**



**SECTION B-B**

**1 PRESSURE REDUCING VAULT**

SCALE 1" = 1'

**2 CHECK VALVE VAULT**

SCALE 1" = 1'

No.	Issue	Drawn	Approved	Date
		CB	MK	3/25/2026

Bar is one inch on original size sheet  
0 1"

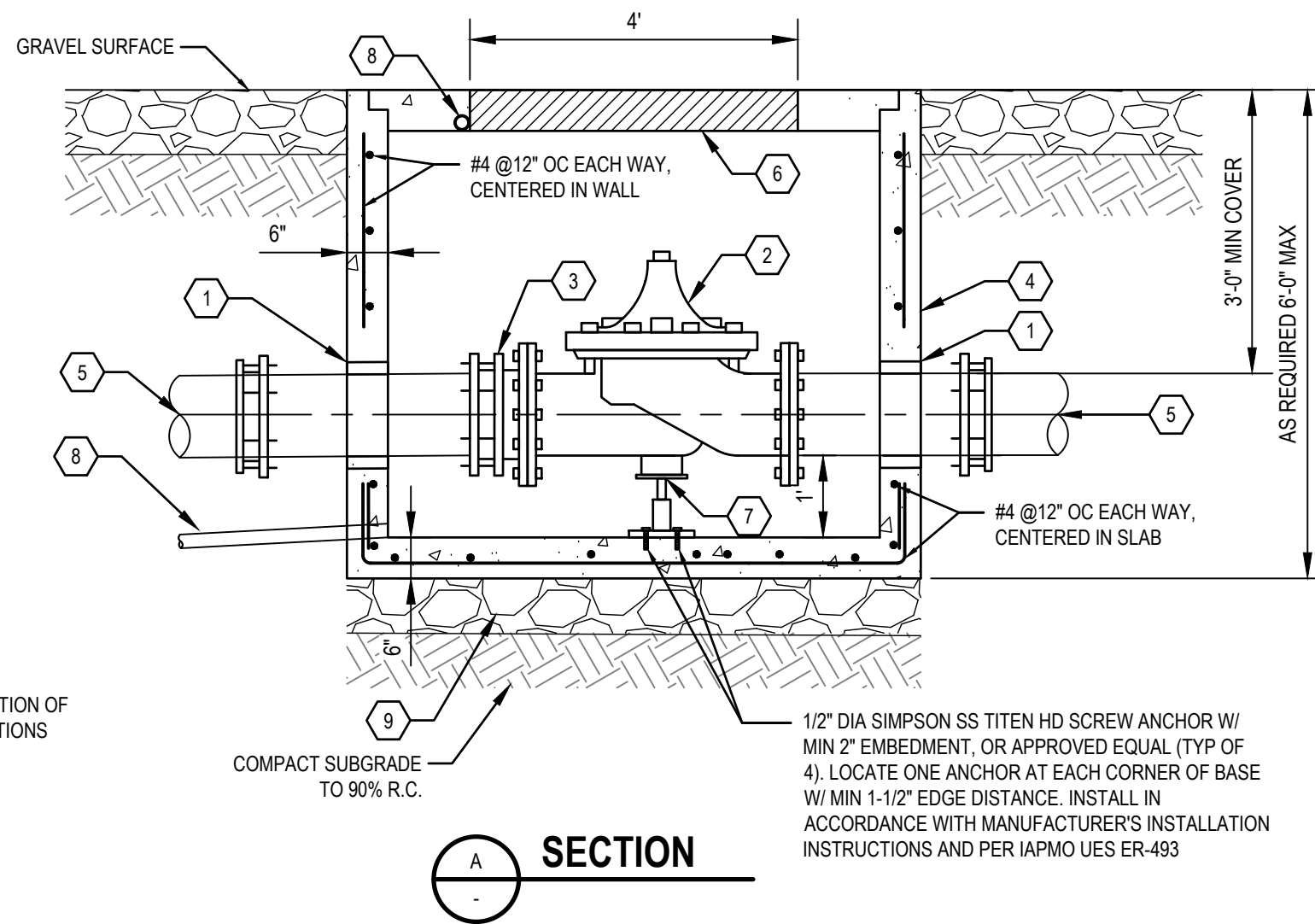
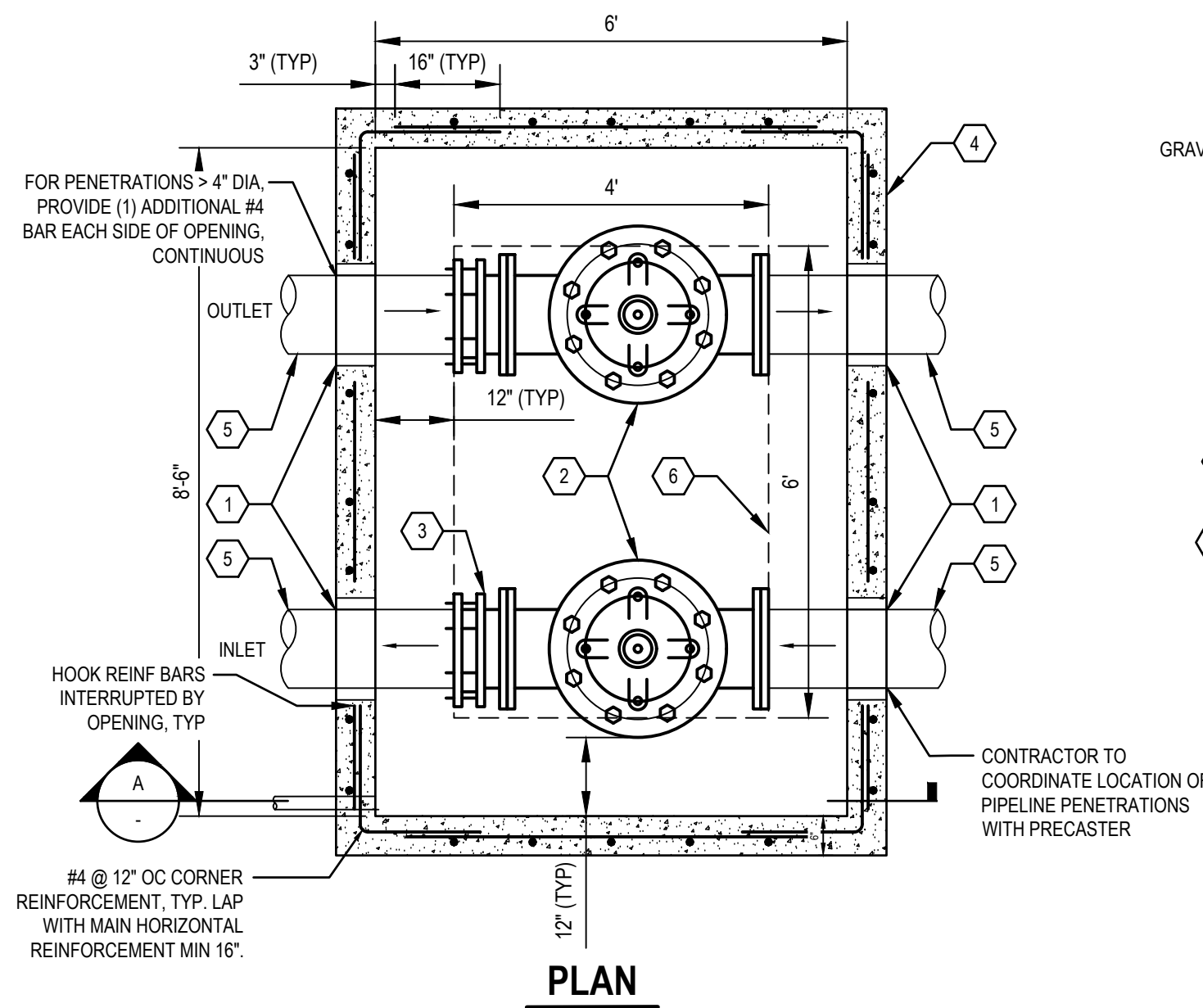
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**REGISTERED PROFESSIONAL ENGINEER**  
L. HALONEN  
3/25/2026

Drawn <b>D. AGUAS</b> <b>C. BACH</b>	Designer <b>L. HALONEN</b>
Drafting Check <b>L. HALONEN</b> <b>M. KENNEDY</b>	Design Check <b>M. KENNEDY</b>
Project Manager <b>M. KENNEDY</b>	Date <b>MARCH 2026</b>
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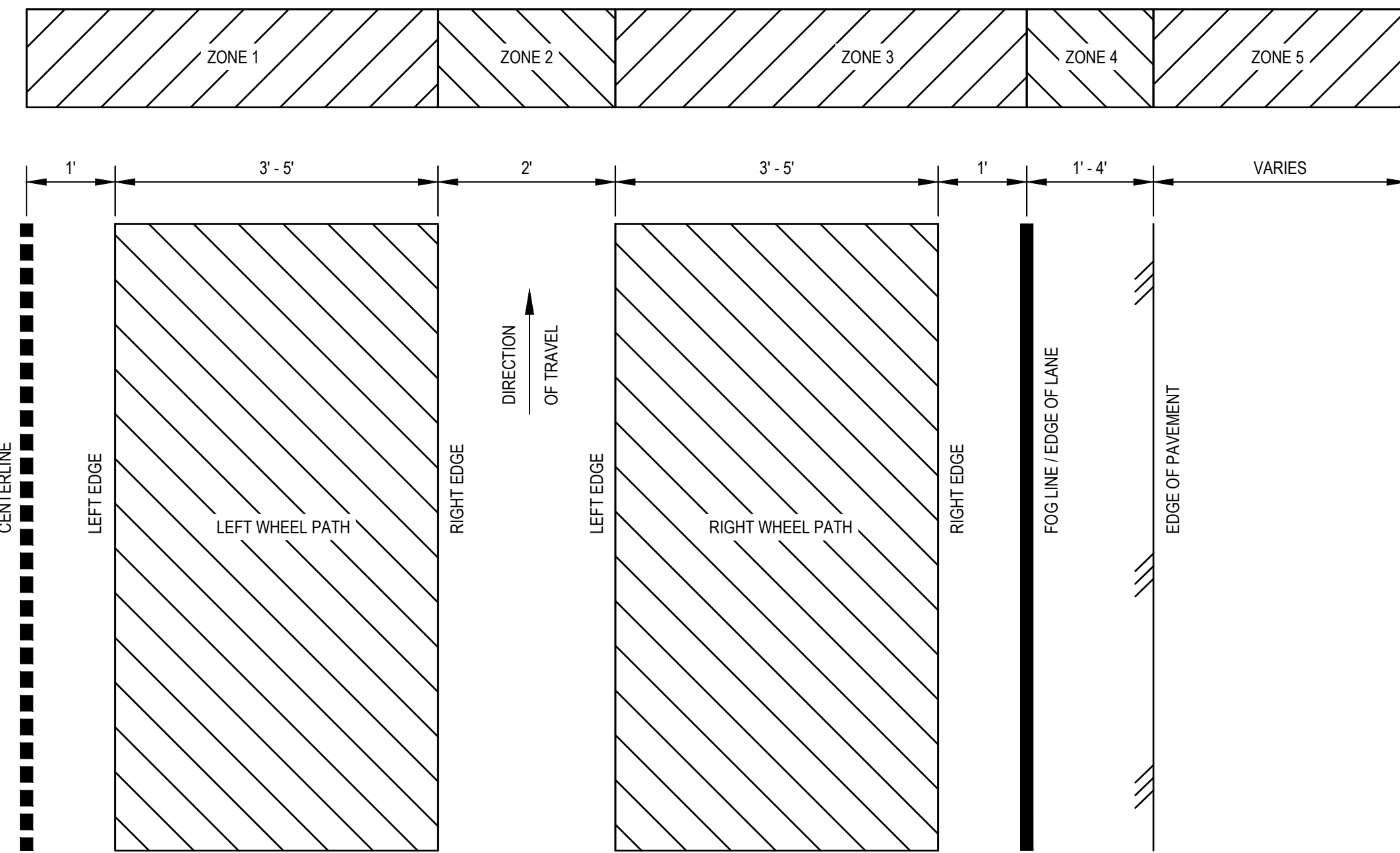
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Project **RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS**  
Title **CIVIL DETAILS 3**  
Project No. **12619547**  
Original Size **ANSI D**  
Drawing No. **C-503**  
Sheet **36** of **53**



- NOTES:**
- ABOVE GRADE PIPING SHALL BE FLANGED. BELOW GRADE PIPING SHALL BE MECHANICAL JOINT, UNO. CONTRACTOR MAY PROPOSE ALTERNATIVE FITTINGS UPON REVIEW AND APPROVAL.
  - PROVIDE DIELECTRIC GASKETS BETWEEN ALL FLANGES OF DISSIMILAR METAL.
  - ALL ABOVE GRADE METALLIC PIPING SHALL BE COATED WITH FUSION BONDED EPOXY WITH URETHANE TOP COAT.
  - INSTALL FLEXIBLE EXPANSION JOINT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL IN POLYETHYLENE SLEEVE AND BED AND BACKFILL A MINIMUM OF 6" ON ALL SIDES WITH COHESIONLESS PEA GRAVEL.

- PRECAST CONCRETE NOTES:**
- PRECAST CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
  - ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
  - SEE SPECIFICATION SECTION 33 05 17 AND STRUCTURAL GENERAL NOTES ON SHEET S-002 FOR ADDITIONAL CONCRETE AND REINFORCING STEEL INFORMATION.
  - FOR PENETRATIONS < 4" DIA, LOCATE PENETRATIONS 2" CLEAR MIN FROM ALL REINFORCING STEEL.

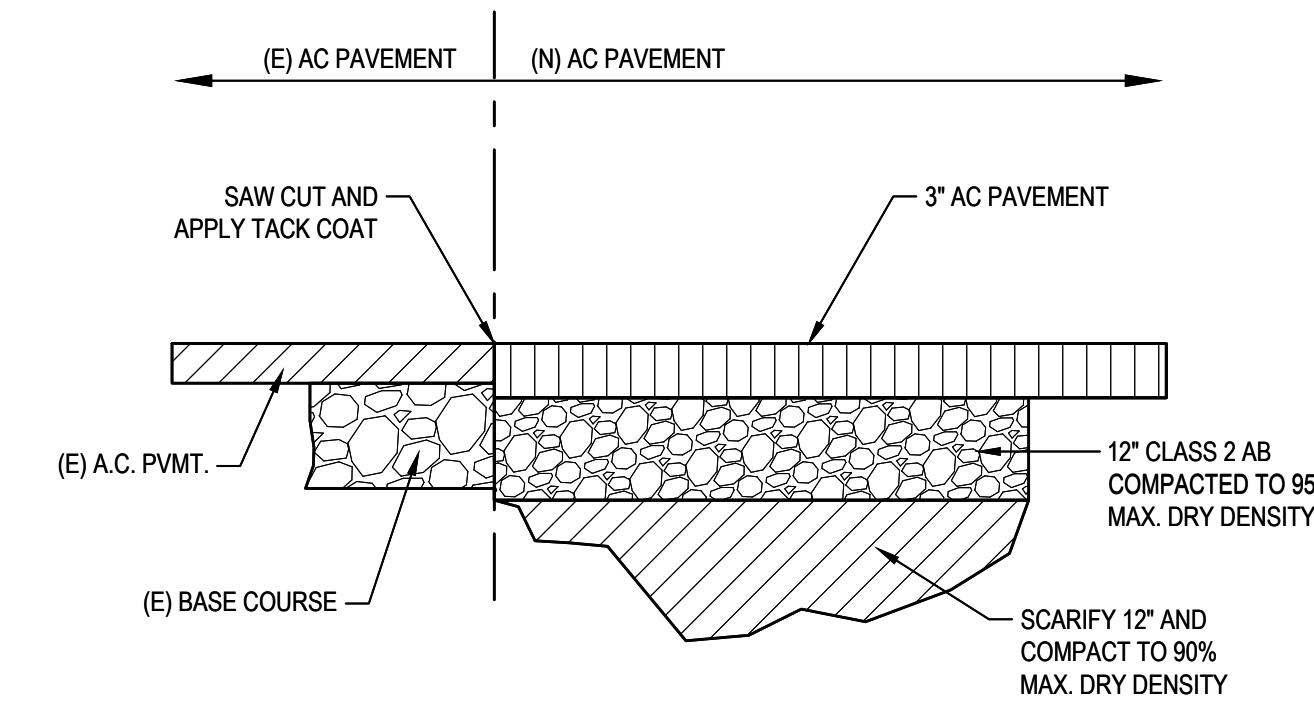
ITEM	QTY	DESCRIPTION
1	4	WALL PENETRATION, SEE DETAIL 5, DWG C-501
2	2	10" CHECK VALVE CLA-VAL 81-02 OR APPROVED EQUAL
3	2	10" FCA
4	1	8' x 6'-6" ID PRECAST CONCRETE UTILITY VAULT, DEPTH AS REQUIRED (6'-0" MAX)
5	AS REQD	12" FL X PE DIP (LENGTH AS REQUIRED)
6	1	4' X 6' DOUBLE LEAF VAULT ACCESS COVER. CAST INTO VAULT LID.
7	2	PIPE SUPPORT, EATON B-LINE SERIES B3088T-2-1/2 AND B3093-8 OR APPROVED EQUAL. VERIFY SIZE.
8	AS REQD	2" SCH 40 PVC VAULT DRAIN PIPE AND 1-1/2" SCH 40 PVC COVER DRAIN PIPE.
9	1.4 CY	GRANULAR BEDDING (COMPACTED)



- NOTES:**
- THIS DETAIL ILLUSTRATES THE GENERAL PAVEMENT REPAIR REQUIREMENTS FOR COUNTY STANDARD A60A TYPE A T-SECTION TRENCH RESTORATIONS WITHIN EXISTING PAVED TRAVEL LANES IN THE COUNTY OF MENDOCINO RW.
  - THE DIMENSIONS SHOWN MAY VARY DEPENDING ON THE ACTUAL LANE WIDTH AND SHOULDER WIDTH.
  - ZONE 1 LEFT WHEEL PATH:** TRENCHES WITHIN ZONE 1 REQUIRE REPAVING FROM THE ROAD CENTERLINE TO THE RIGHT EDGE OF THE LEFT WHEEL PATH.
  - ZONE 2 CENTER OF LANE:** TRENCHES WITHIN ZONE 2 REQUIRE REPAVING OF THE LANE FROM THE ROAD CENTERLINE TO THE FOG LINE. IF THE PAVED SHOULDER IS LESS THAN 2-FT WIDE, REPAVING SHALL EXTEND TO THE EDGE OF PAVEMENT.
  - ZONE 3 RIGHT WHEEL PATH:** TRENCHES WITHIN ZONE 3 REQUIRE REPAVING FROM THE CENTER OF THE LANE TO THE FOG LINE. IF THE PAVED SHOULDER IS LESS THAN 2-FT WIDE, REPAVING SHALL EXTEND TO THE EDGE OF PAVEMENT.
  - ZONE 4 PAVED SHOULDER:** TRENCHES WITHIN ZONE 4 REQUIRE REPAVING OF THE TYPE A T-SECTION ONLY. REPAVING IS LIMITED TO THE TYPE A T-SECTION UNLESS THE REMAINING PAVED SHOULDER IS LESS THAN 2-FT IN WIDTH IN WHICH CASE THE ENTIRE SHOULDER SHALL BE REPAVED.
  - ZONE 5 UNPAVED SHOULDER:** TRENCHES WITHIN ZONE 5 SHALL BE REPAIRED IN ACCORDANCE WITH THE COUNTY STANDARD A60A TYPE B TRENCH RESTORATION.

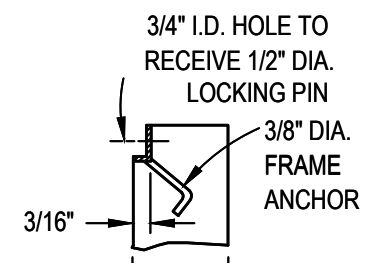
**1 TANK CHECK VALVE VAULT**

SCALE 1" = 2'



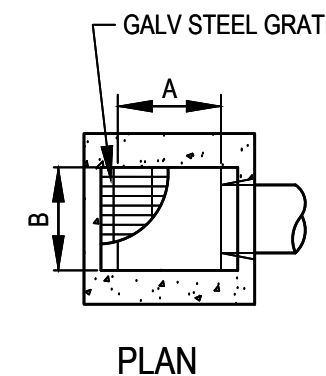
- NOTES:**
- A BITUMINOUS TACK COAT SHALL BE APPLIED TO THE (E) AC PAVEMENT PRIOR TO PLACING THE (N) AC PAVEMENT.
  - PAVEMENT RESTORATION SECTION SHOWN IS MINIMUM REQUIREMENT. REFER TO COUNTY STD A60A, A60B AND A60C (DETAIL 1 ON DWG C-501) FOR ADDITIONAL REQUIREMENTS.

- NOTES:**
- FRAME AND GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A-123.
  - ALL GRATING MUST BE RATED FOR H20 LOADING, MINIMUM.
  - ALL GRATES SHALL BE 3" ABOVE ADJACENT FG.
  - INSTALL PRECAST INLET ON 6" MIN COMPACTED CLASS 2 AB.
  - INLET SHALL BE CONSTRUCTED BY A PCI CERTIFIED MANUFACTURER.

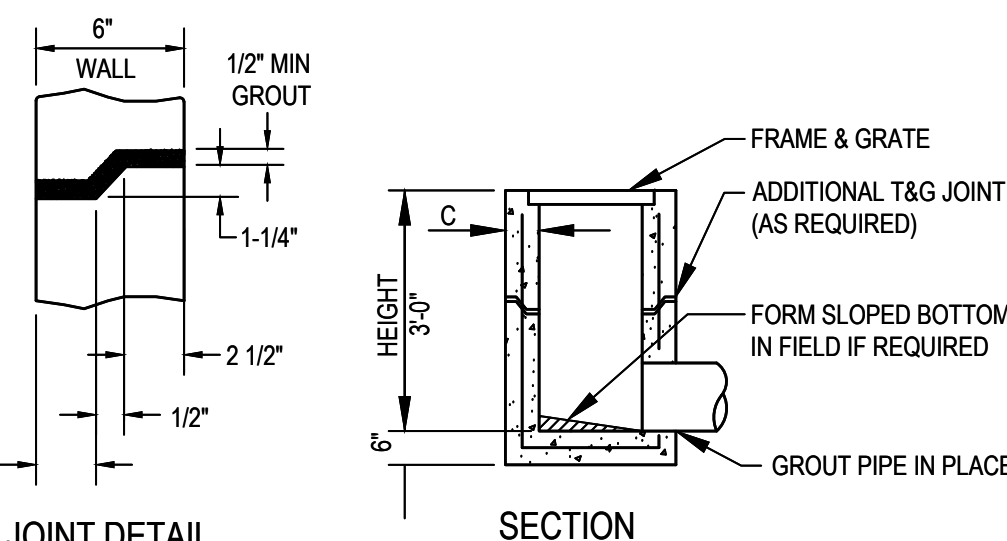


**FRAME ANCHORING DETAIL**

DROP INLET TABLE		
A (IN)	B (IN)	C (IN)
24	24	6



**PLAN**

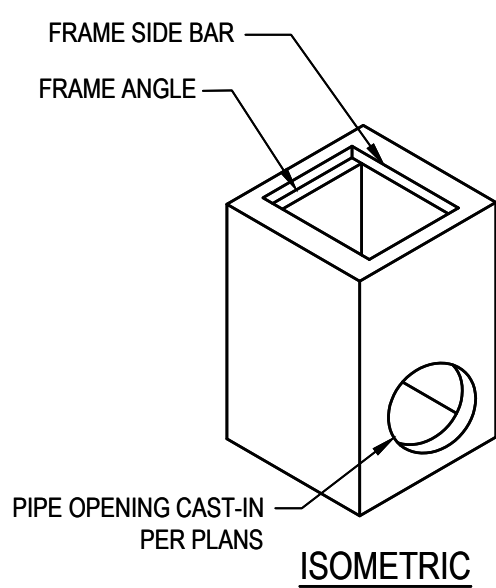


**SECTION**

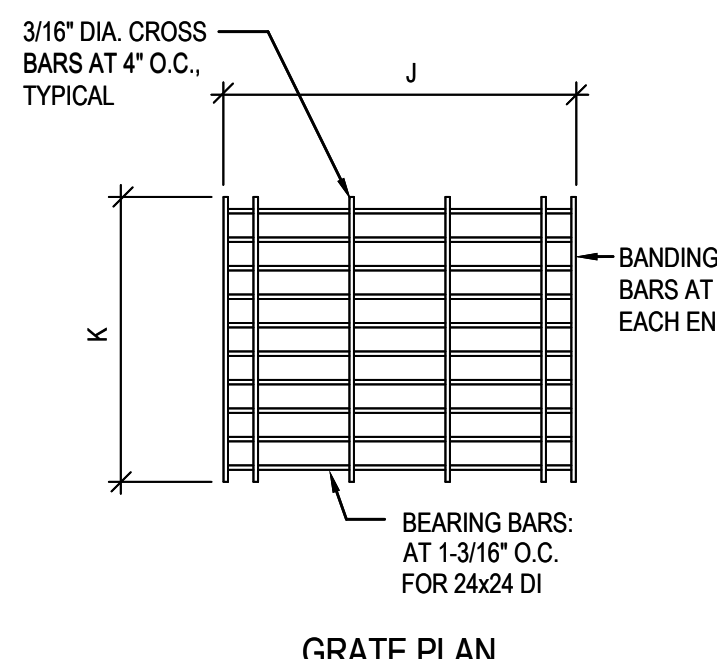
**JOINT DETAIL**

**5 COUNTY TRAVEL LANE TRENCH REPAIR**

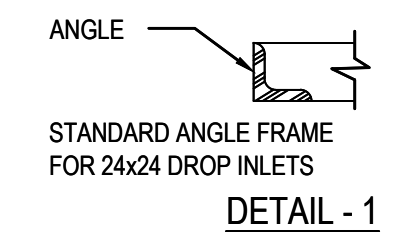
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**ISOMETRIC**



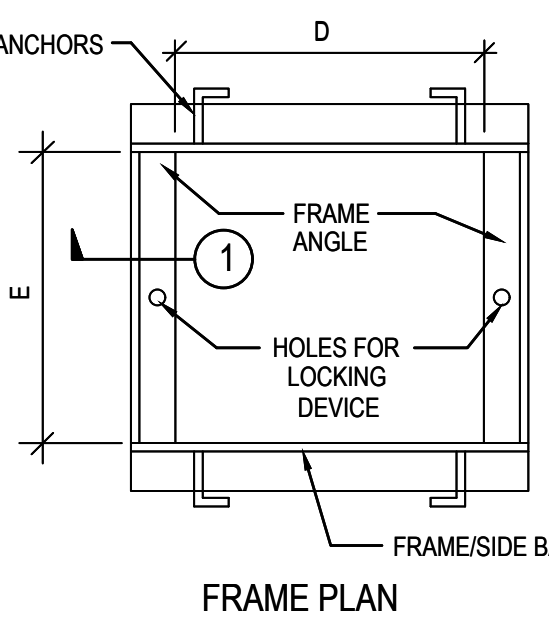
**GRATE PLAN**



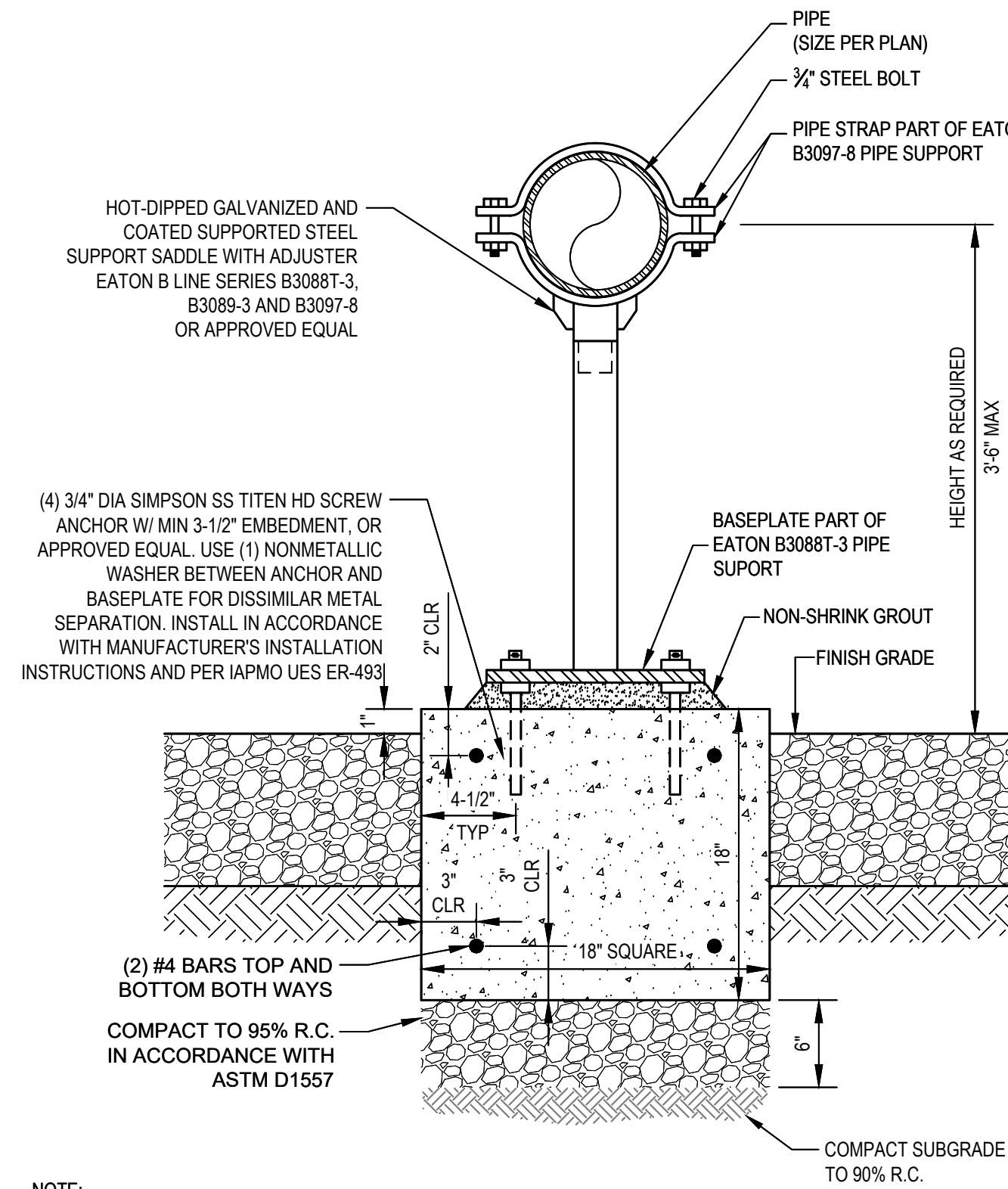
**DETAIL - 1**

GRATES			
J	K	BEARING BARS	BANDING BARS
IN	IN	IN	IN
26-11/16	24-1/8	2-1/4x3/16	2x3/16

FRAMES					
A	B	D	E	FRAME ANGLE	SIDE BAR
IN	IN	IN	IN	IN	IN
24	24	24-3/8	24-3/8	2-1/2x1-1/2X3/16	2x1/4



**FRAME PLAN**



- NOTE:**
- FIELD COAT ALL STEEL PER SPECIFICATIONS

**2 AC PAVEMENT AND TRANSITION**

NOT TO SCALE

**3 DRAINAGE INLET**

NOT TO SCALE

**4 PIPE SADDLE SUPPORT**

NOT TO SCALE

No.	Issue	Drawn	Approved	Date
		CB	MK	3/25/2026

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0 1"

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**REGISTERED PROFESSIONAL ENGINEER**  
GLENN KENNEDY  
3/25/2026

Drawn <b>D. AGUAS</b> <b>C. BACH</b>	Designer <b>L. HALONEN</b>
Drafting Check <b>L. HALONEN</b> <b>M. KENNEDY</b>	Design Check <b>M. KENNEDY</b>
Project Manager <b>M. KENNEDY</b>	Date <b>MARCH 2026</b>
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Title <b>CIVIL DETAILS 4</b>	
Project No. <b>12619547</b>	Original Size <b>ANSI D</b>
Drawing No. <b>C-504</b>	
Sheet <b>37</b> of <b>53</b>	





**IRRIGATION SPECIFICATIONS (continued)**

**PART 3 - EXECUTION**

**3.01 SUPERVISION AND WORKMANSHIP**

- A. The Contractor, personally or through an authorized and competent representative, shall supervise the work constantly and shall, as far as possible, keep the same foreman and workmen on the job from commencement to completion. The workmanship of the entire job shall in every way be first class, and only experienced and competent workmen shall be allowed on the job.

**3.02 LAYOUT OF THE WORK**

- A. Stake out the irrigation system as shown on the Drawings. Any necessary changes from the original system shall be determined at this time. Verify location of existing underground utilities and make any necessary adjustments to avoid damage.

**3.03 INSTALLATION PREPARATION**

- A. Schedule and coordinate placement of materials and equipment in a manner to complete the work as quickly as possible in conformance with construction schedules. Protect all work material from damage during construction and storage.

**3.04 COORDINATION OF WORK**

- A. Coordinate work with other trades. In particular, schedule placement of irrigation line and wire sleeves prior to paving work.

**3.05 EXCAVATING, TRENCHING AND BACKFILL**

- A. Excavation and Backfill for Sprinkler Lines:
  1. Excavation: Place when pipe and soil temperatures are approximately the same.
  2. Backfill and Compaction: Top 6 inches in landscaped areas may be 85 percent.
- B. Excavation shall be in all cases ample space for joining. Provide warning signs and barricades as needed for open trenches. Bottom of trenches shall provide continuous support for pipe.
- C. Make trenches for pipe lines deep enough to provide minimum cover from finish grade as follows:
  1. 18 inches minimum cover over mainlines and control wires to control valves and quick coupler valves, 24 inches under paving.
  2. 12 inches minimum cover over lateral lines. 24 inches under paving.
  3. When rocky conditions exist, as determined by the Owner's Representative, the bottom of all trenches shall have 3 inches of sand placed in them. Trenching depth shall be sufficient to allow for the 3 inches of bedding sand.
- D. Restore surfaces, existing underground installations, or other Site improvements damaged or cut as a result of excavations, to original condition in a manner approved by the Owner's Representative.
- E. Where other utilities interfere with irrigation trenching and pipe work, adjust the trench depth as instructed by the Owner's Representative.
- F. No work on excavating, trenching, or backfilling shall be done when soil is muddy, as determined by the Owner's Representative.

**3.06 PIPELINE ASSEMBLY / PLASTIC PIPE**

- A. All pipe shall be assembled free from dirt. Field cut ends shall be reamed only to full diameter, with rough edges and burrs removed.
- B. Solvent weld joints: Assemble PVC pipe using primer, solvents, and methods in accordance with manufacturer's recommendations. Wipe excess cement off the outside of the joints.
- C. For long pipe runs, 'snake' pipe from side to side in trench to allow for thermal expansion. Install pipe with manufacturer's labels face up for inspection before backfill.
- D. Threaded Joints:
  1. Field threading of plastic pipe or fittings is not permitted, factory formed threads only will be permitted.
  2. All plastic to metal connections shall be made with PVC male adapters. All screwed joints shall have Teflon tape applied to the male threads.
  3. Where assembling threaded plastic fittings, take up joint no more than one full turn beyond hand tight. Use strap-eye friction wrench only; do not use metal jawed wrench.
- E. Cap or plug openings as pipeline is assembled to prevent entrance of dirt or obstruction. Remove caps or plugs only when necessary to continue assembly.
- F. Where pipes or control wires pass through sleeves, provide removable non-decaying seal at ends of sleeve to prevent entrance of earth.
- G. Install concrete thrust blocks on the main line at all changes in pipe direction associated with PVC tee's, el's, and other fittings as needed and as per detail on the plans. Do not cover thrust blocks until fully acceptable to the Owner's Representative.

**3.07 REMOTE CONTROL VALVES (RCV)**

- A. Install where shown and group together where practical. Limit one RCV per valve box. Locate in shrub or ground cover beds wherever possible.
- B. The valve designation (i.e.: controller and station no.) shall be painted on the inside of each valve box

- lid.
- C. Locate valves no closer than 12 inches from pavement or curbs, buildings, and walks.
- D. Thoroughly flush main line before installing valve.

**3.08 AUTOMATIC CONTROL WIRING**

- A. Run wires along main lines wherever practical. Tie wires in bundles with pipe wrapping tape at 20 foot intervals and allow slack for contraction between strapping. Place all above ground wiring in conduit.
- B. Make connections with 3M Brand DBY Direct Bury Splice Kit, shall splice and effectively moisture seal two or more conductors. The electrical connector shall be a 'Scotchlok' Y. The device shall be installed per manufacturer's instructions and all applicable codes. The device shall be UL Listed as a Wire Connector System For Use With Underground Conductors.
- C. Loop a minimum of three (3) feet of extra control wire and ground wire in each valve box and at all corners and at 200 foot intervals.
- D. Splicing will be permitted only at valve locations or in junction boxes, equivalent to valve boxes, and approved by Engineer.
- E. Where control lines pass under paving, or where interior wires are exposed, they shall pass through Schedule 40 PVC conduit.

**3.09 AUTOMATIC CONTROLLER**

- A. The automatic sprinkler controller is to be a new automatic controller. Reference irrigation equipment legend. Contractor is to provide the following:
  1. Furnish and install the new auto controller, controller steel enclosure, and or enclosure concrete base as specified.
  2. Provide all 100X electrical work required to heat the new controller.
  3. Provide all 120 volt electrical work required to reconnect the existing systems control wires to the new auto controller.
  4. Provide telephone service to controller location, if required per plan legend. Coordinate with installing contractor.
  5. Provide adequate electrical surge protection for the new automatic controller and as approved by the Owner's Representative.

**3.10 ROOT ZONE WATER SYSTEM BUBBLER AND DRIP SYSTEM**

- A. Install all root zone water system bubblers and sub-surface drip line in accordance with the plans and details contained within these drawings.

**3.11 SPRINKLER HEADS**

- A. General:
  1. Set heads perpendicular to finished grades, unless otherwise indicated on the Drawings.
  2. Sprinkler heads adjacent to Existing Walks, Curbs, or Other Paved Areas are to be set to grade, and as shown on the drawings.
  3. Sprinkler heads in lawn areas where turf has not be established are to be set 2 inches above finished grade.
    - a. Lower heads installed in this manner to grade when turf is sufficiently established to allow walking on it without appreciable damage.
    - b. Complete lowering of heads within 30 calendar days after written notification by the Owner's Representative.
- B. Flush lines thoroughly before installing heads, with the most distant circuit flushed last. Once the flushing water is clean, put on sprinkler heads, starting with the closest circuit to the vacuum breaker.
- C. The Contractor shall be responsible for providing full and even coverage. Make all necessary adjustments for proper distribution and coverage.
- D. Avoid overthrow onto windows and keep overthrow onto buildings and pavement to an absolute minimum.
- E. Bring any potential problems to the attention of the Owner's Representative prior to completion of the work.

**3.12 BACKFILLING**

- A. Use earth excavated from trenches, free from rocks or other deleterious material. Avoid any sharp objects adjacent to pipe which could cause damage. At the Contractor's option, rock-free imported topsoil may be used to backfill around piping.
- B. All PVC piping is to be covered with a 3 inch layer of sand wherever the backfill is rocky in nature as determined by Owner's Representative.
- C. The sprinkler system trenches are to be backfilled in 6 inch lifts and adequately compacted to prevent subsequent settling.
- D. Finish Site. Site grade areas of backfill to match adjacent grade, removing any rocks or debris from the Obtain approval from the Owner's Representative for relocating any excess earth on
- E. If settlement occurs along trenches, make all necessary adjustments to bring irrigation system, soil and turf or paving to proper grade at no additional cost to the Contract.

**3.13 FIELD QUALITY CONTROL**

- A. PIPE TESTING: Notify Owner's Representative at least three (3) working days in advance of testing. All tests shall be at Contractor's expense. Use small amounts of backfill to stabilize pipe before testing, but

- keep all joints exposed. Test lines as follows:
  - B. Trench Inspection and Main Line Pressure Test
    1. The Contractor shall not backfill pressure main line trench until an open trench inspection has been conducted and approved.
    2. Test all pressure lines and connections to quick coupler valves, remote control valves and gate valves under hydrostatic pressure of 120 pounds per square inch prior to installation of remote control valves.
    3. All piping under paved areas shall be tested under hydrostatic pressure of 120 pounds per square inch prior to paving.
    4. Sustain pressure in pressure lines for not less than twenty-four (24) hours. If leaks develop, replace joints and repeat test until entire system is proven watertight.
    5. All hydrostatic tests shall be made only in the presence of the Owner. No pipe shall be backfilled, except for center loading, until it has been observed, tested and approved in writing by the Owner. Should any work be covered up before such observation and tests are completed, the Contractor shall, at his own expense, uncover the work; and after it has been observed, tested and approved, he then shall make all repairs with such materials as required to restore all work disturbed to original and proper condition.
    6. Furnish necessary force pump and all other test equipment.
  - C. Flushing and Testing:
    1. After new sprinkler piping and risers are in place and connected and necessary work has been completed, and prior to installation of sprinkler heads, open control valves and apply full head of water to flush out system.
    2. After the system is thoroughly flushed, and prior to backfilling, cap off and pressure test system.
    3. All testing to be in full compliance with the requirements of the specifications. B. Final System Test:
  - D. When irrigation system is complete and all adjustments have been made, notify the Owner's Representative to arrange final testing of system. A complete test of the system shall be made with all equipment connected and operating. Make any necessary adjustments as required by the Owner's Representative and retest as needed for final approval of system.
  - E. Manufacturer's Field Service:
    1. Equipment manufacturer for controllers and automatic control valves shall provide one half day of field training in the operation and maintenance of the equipment to the Owner.
    2. Equipment manufacturer for controllers, automatic control valves, and sprinklers shall inspect the installed system and its operation and certify in writing its proper installation and operation.

**3.14 GUARANTEE**

- A. Submit in writing to the Owner's Representative.
- B. It shall be the responsibility of the Contractor to fill and repair all depressions and replace all necessary paving or plating due to the settlement of irrigation trenches for one year following completion and acceptance of the job.
- C. The Contractor shall guarantee all materials, equipment, and workmanship furnished by him to be free of all defects of workmanship and materials, and shall agree to replace at his expense at any time within one year after installation is accepted, any and all defective parts that may be found. In cases where emergency repairs are needed, or if the Contractor is not immediately available for repair work, the Owner shall have the option of making repairs at the Contractor's expense.



**3.15 CLEAN-UP**

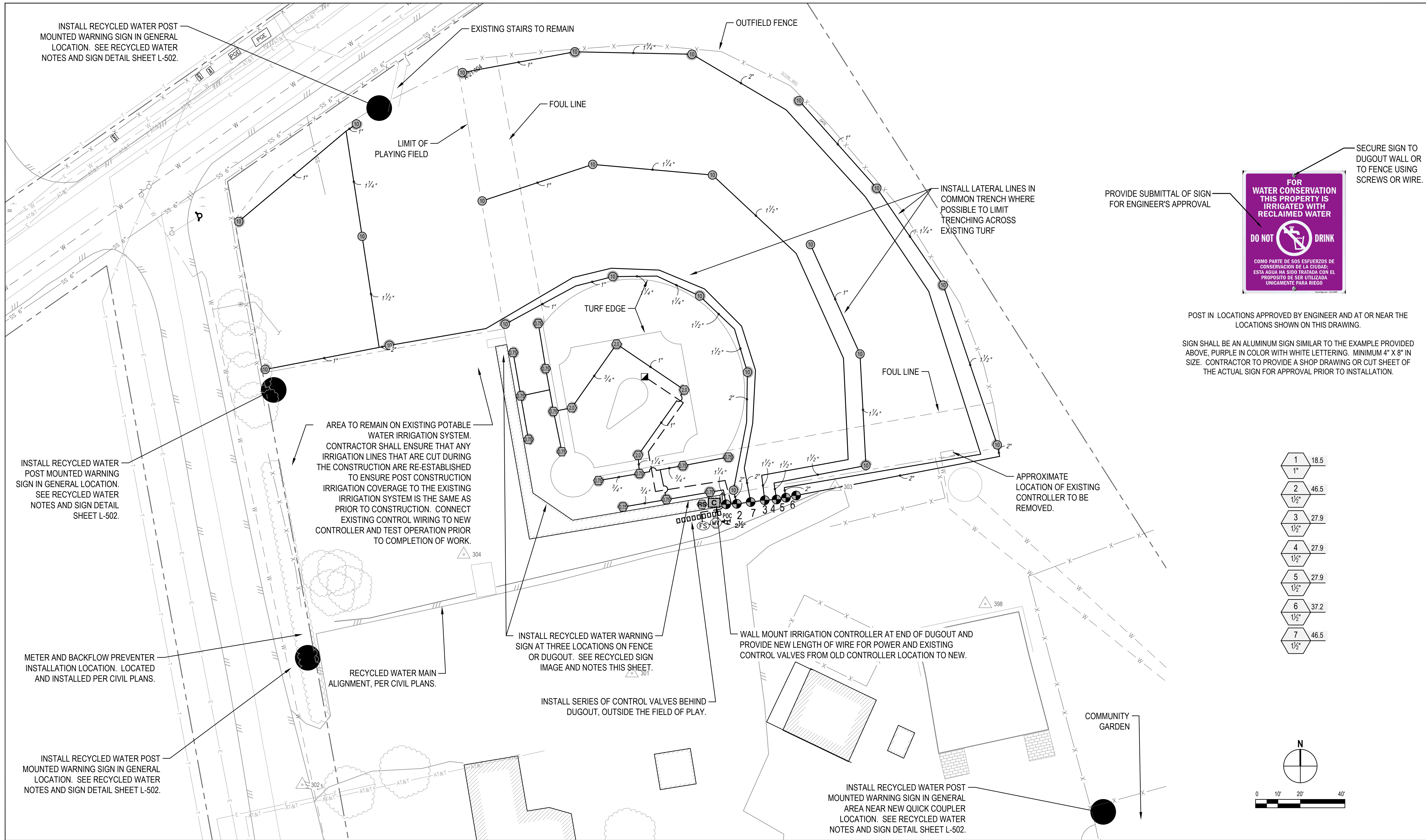
- A. The Contractor shall keep his work areas in a workmanlike and safe condition and so his rubbish, waste, and debris does not interfere with the work.
- B. Upon completion of work in this Section, remove all rubbish, waste and debris from Site.
- C. Remove all equipment and implements of service, leave entire area in a neat and clean condition to meet acceptance by the Owner's Representative.

**3.16 WATER EFFICIENT LANDSCAPE - COMPLIANCE CERTIFICATE OF COMPLETION**

- A. The Contractor shall comply with the completion of all forms associated with the Certificate of Completion associated with the Water Efficient Landscape Compliance Certificate of Completion.
- B. IRRIGATION AUDIT: Irrigation audit shall be conducted by a third party irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape. Irrigation audit required for projects as described (15.92.160). The applicant shall submit an irrigation audit report with the Certificate of Completion to the local agency that may include, but is not limited to: inspection, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and other factors necessary for accurate programming.
- C. IRRIGATION RUNTIME SCHEDULE: The Landscape Contractor shall provide the City of Sacramento, as part of the Irrigation Audit and Certification of Completion, an Irrigation Runtime Schedule. This schedule shall break down individual valve schedules and runtimes based on the irrigation volume requirements determined during the irrigation audit.

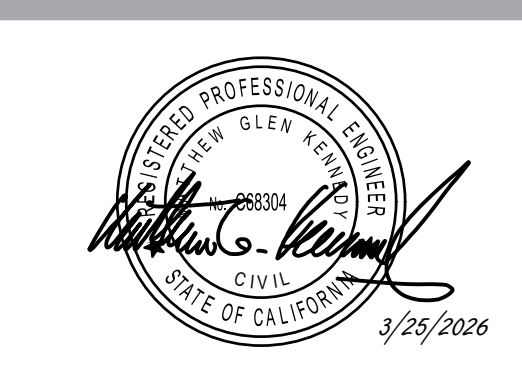
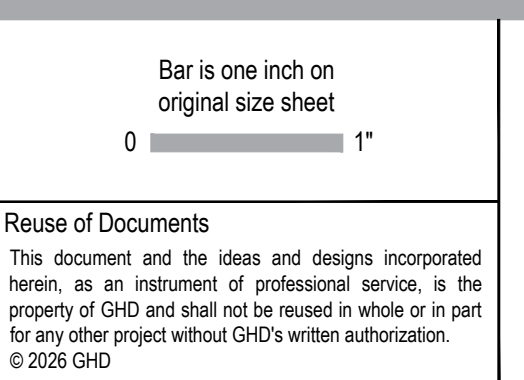
END OF SECTION

				Bar is one inch on original size sheet 0 1"				Drawn <b>D. AGUAS</b> <b>C. BACH</b>	Designer <b>L. HALONEN</b>	Client <b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b> Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b>
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No.	Issue	Drawn	Approved	Date			This document shall not be used for construction unless signed and sealed for construction.	Scale <b>AS SHOWN</b>	Original Size <b>ANSI D</b> Drawing No. <b>L-002</b>	Sheet <b>40</b> of <b>53</b>



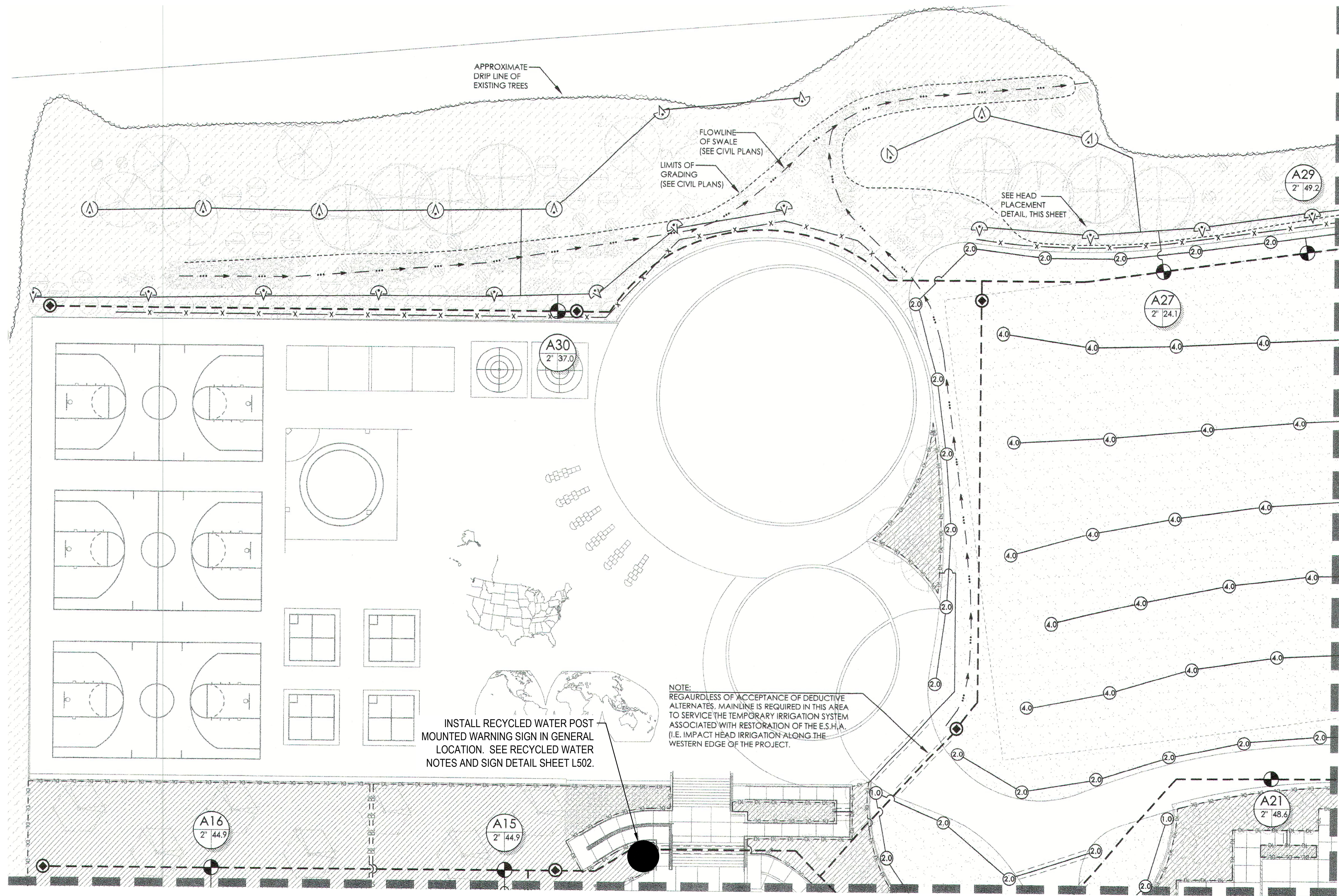
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Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	FRIENDSHIP PARK IRRIGATION PLAN
Project No.	12619547
Original Size	ANSI D
Drawing No.	L-101

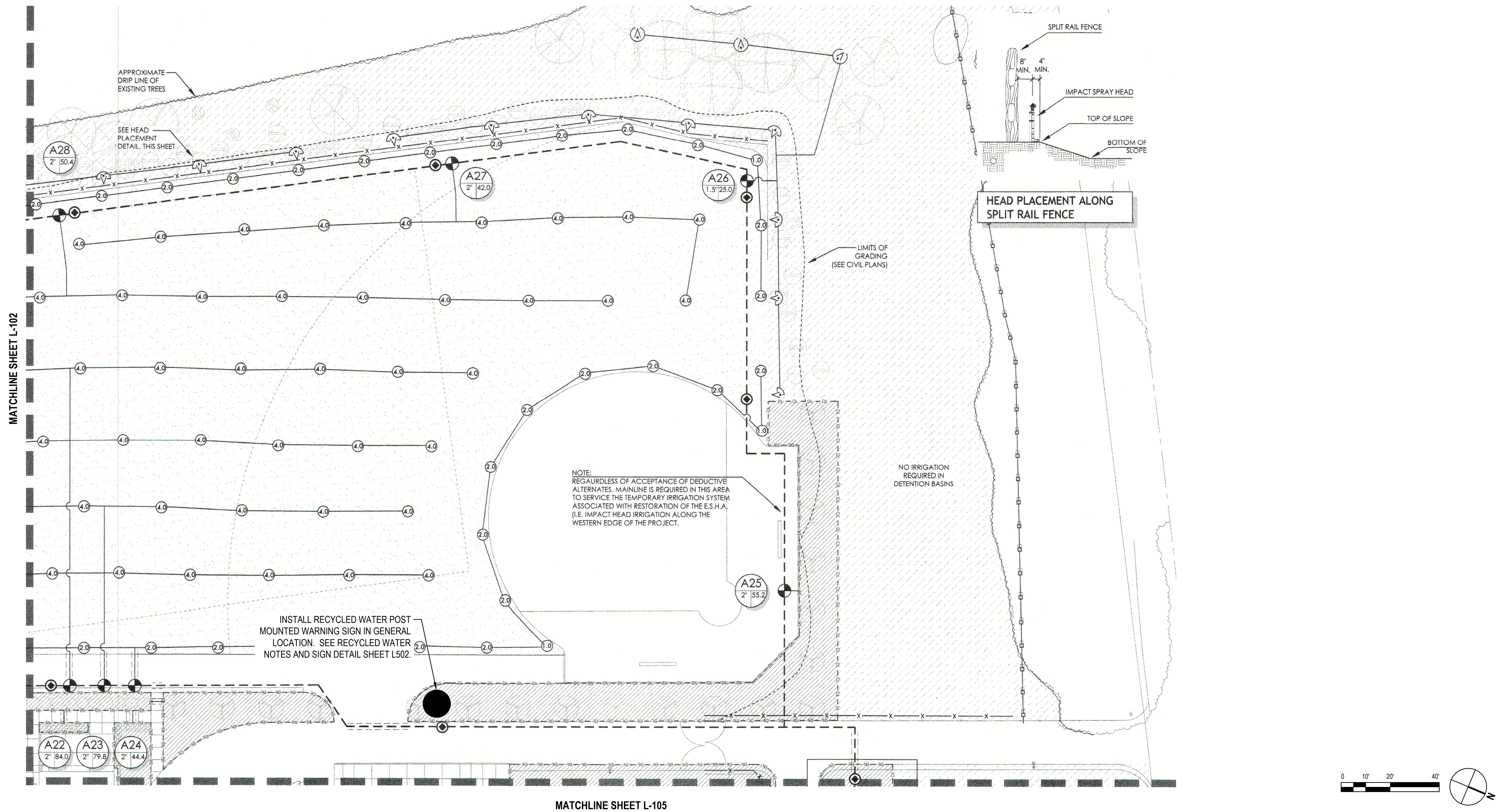


MATCHLINE SHEET L-103

MATCHLINE SHEET L-104

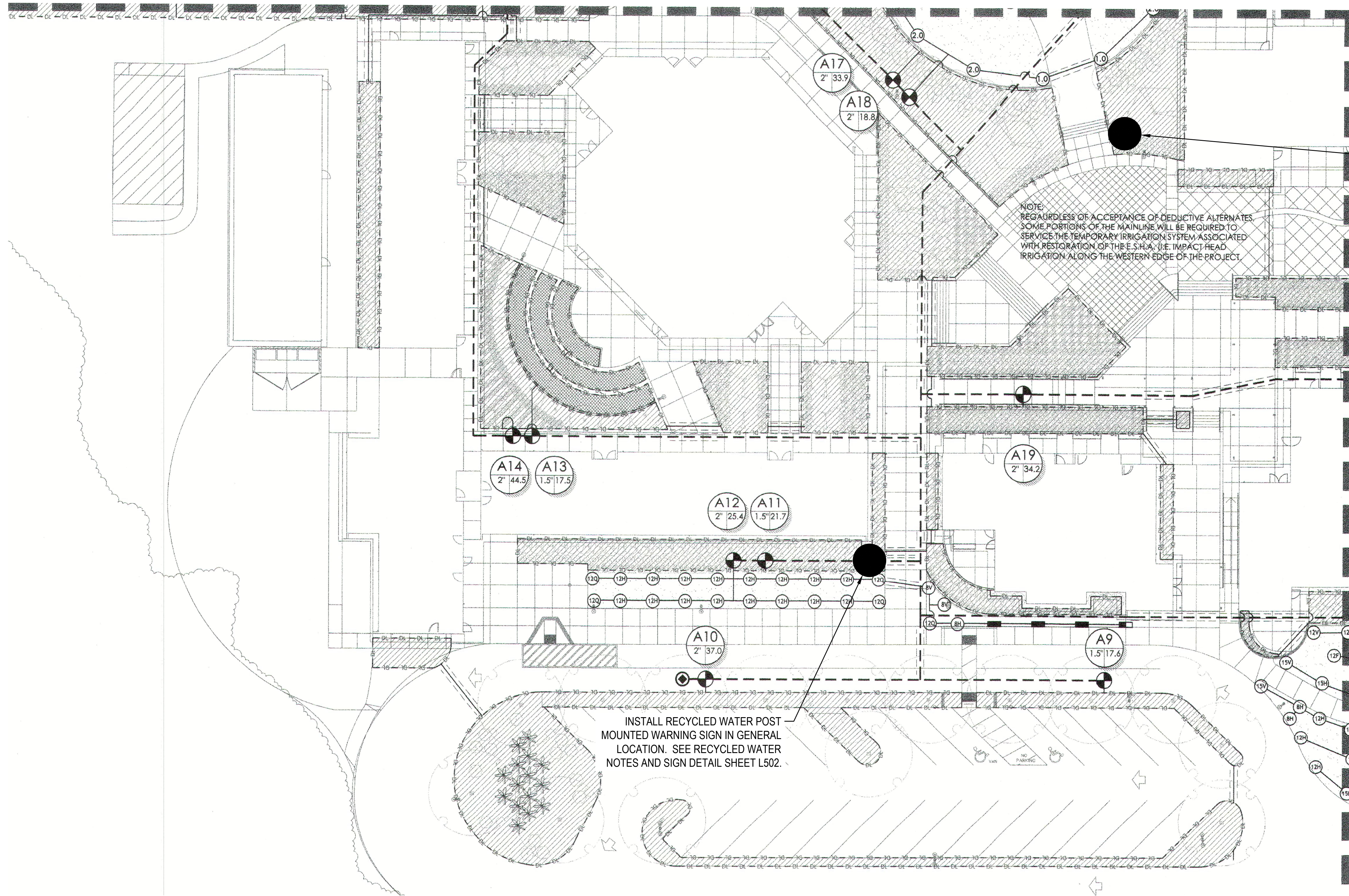
# K-8 SCHOOL LAYOUT 1 - USE FOR LOCATION OF RECYCLED WATER SIGNS ONLY

<p>Bar is one inch on original size sheet 0 1"</p>								<p>Drawn <b>D. AGUAS</b> <b>C. BACH</b></p> <p>Drafting Check <b>L. HALONEN</b> <b>M. KENNEDY</b></p> <p>Project Manager <b>M. KENNEDY</b></p>		<p>Designer <b>L. HALONEN</b></p> <p>Design Check <b>M. KENNEDY</b></p> <p>Date <b>MARCH 2026</b></p> <p>Scale <b>AS SHOWN</b></p>		<p>Client <b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b></p> <p>Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b></p> <p>Title <b>K-8 SCHOOL RECYCLED WATER SIGN PLAN LAYOUT 1</b></p> <p>Project No. <b>12619547</b></p> <p>Original Size <b>ANSI D</b></p> <p>Drawing No. <b>L-102</b></p>	
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# K-8 SCHOOL LAYOUT 2 - USE FOR LOCATION OF RECYCLED WATER SIGNS ONLY

<p>CONFORMED DRAWINGS</p> <p>No. Issue Drawn Approved Date</p> <p>CB MK 3/25/2026</p>				<p>Bar is one inch on original size sheet</p> <p>0 1"</p>		<p>Reuse of Documents</p> <p>This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part for any other project without GHD's written authorization.</p> <p>© 2026 GHD</p>				<p>GHD Inc. 2235 Mercury Way Suite 150 Santa Rosa California 95407 USA T 1 707 523 1010 F 1 707 527 8679 W www.ghd.com</p>		<p>Drawn D. AGUAS C. BACH</p> <p>Drafting Check L. HALONEN M. KENNEDY</p> <p>Project Manager M. KENNEDY</p>		<p>Designer L. HALONEN</p> <p>Design Check M. KENNEDY</p> <p>Date MARCH 2026</p> <p>Scale AS SHOWN</p>		<p>Client MENDOCINO CITY COMMUNITY SERVICES DISTRICT</p> <p>Project RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</p> <p>Title K-8 SCHOOL RECYCLED WATER SIGN PLAN LAYOUT 2</p> <p>Project No. 12619547</p> <p>Original Size ANSI D</p> <p>Drawing No. <b>L-103</b></p>		<p>Sheet 43 of 53</p>	
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INSTALL RECYCLED WATER POST MOUNTED WARNING SIGN IN GENERAL LOCATION. SEE RECYCLED WATER NOTES AND SIGN DETAIL SHEET L502.

NOTE: REGARDLESS OF ACCEPTANCE OF DEDUCTIVE ALTERNATES SOME PORTIONS OF THE MAINLINE WILL BE REQUIRED TO SERVICE THE TEMPORARY IRRIGATION SYSTEM ASSOCIATED WITH RESTORATION OF THE E.S.H.A. (I.E. IMPACT HEAD IRRIGATION ALONG THE WESTERN EDGE OF THE PROJECT.)

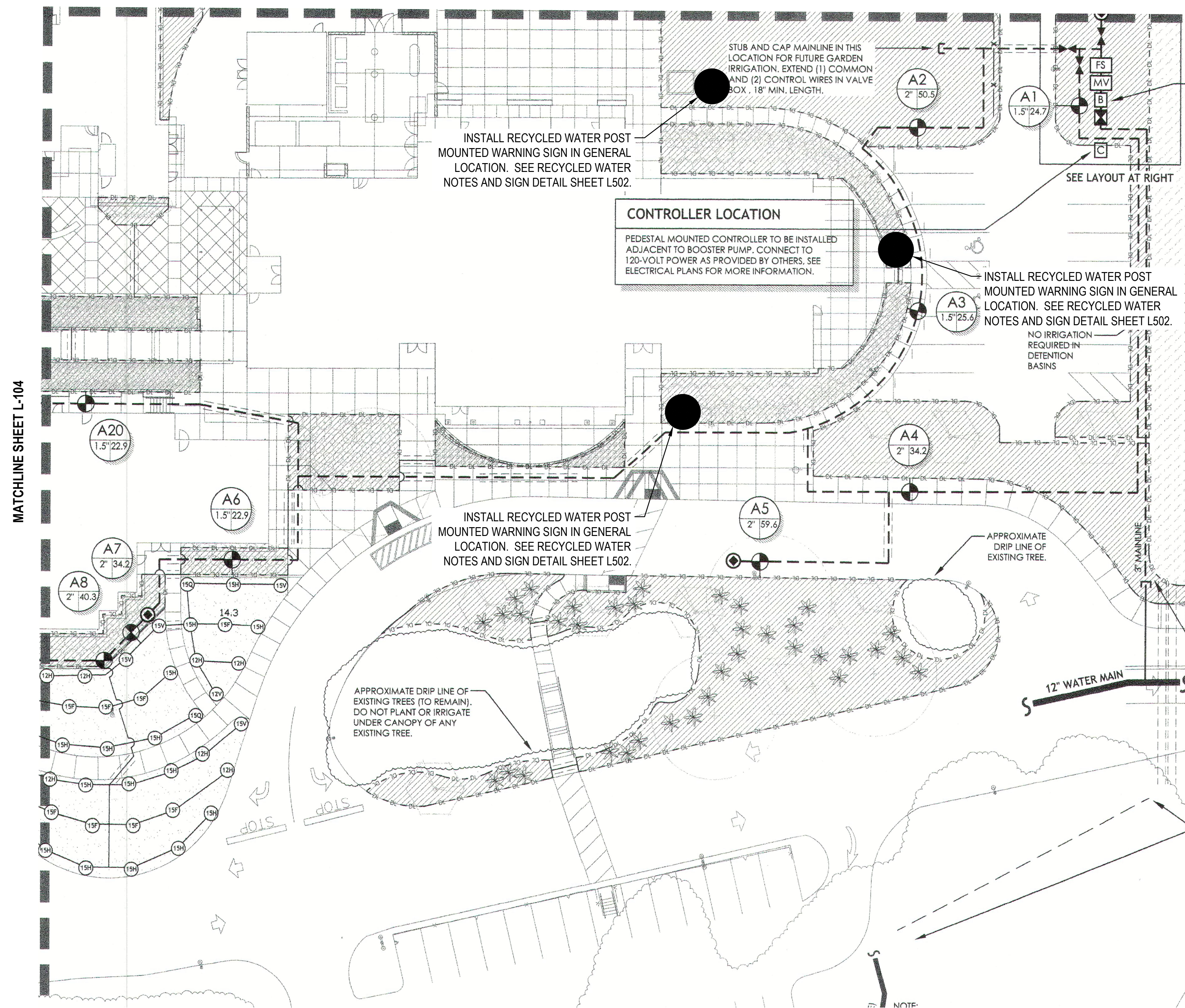
INSTALL RECYCLED WATER POST MOUNTED WARNING SIGN IN GENERAL LOCATION. SEE RECYCLED WATER NOTES AND SIGN DETAIL SHEET L502.

MATCHLINE SHEET L-105



# K-8 SCHOOL LAYOUT 3 - USE FOR LOCATION OF RECYCLED WATER SIGNS ONLY

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<p>CONFORMED DRAWINGS</p>		<p>CB</p>	<p>MK</p>	<p>3/25/2026</p>									
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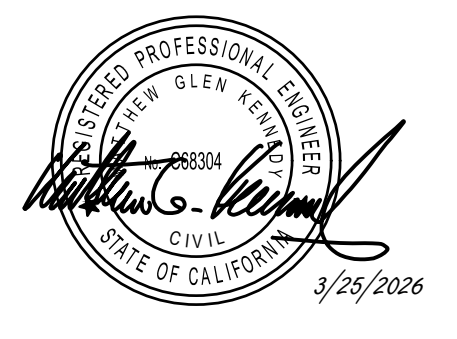
MATCHLINE SHEET L-104

# K-8 SCHOOL LAYOUT 4 - USE FOR LOCATION OF RECYCLED WATER SIGNS ONLY

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No.	Issue	Drawn	Approved	Date

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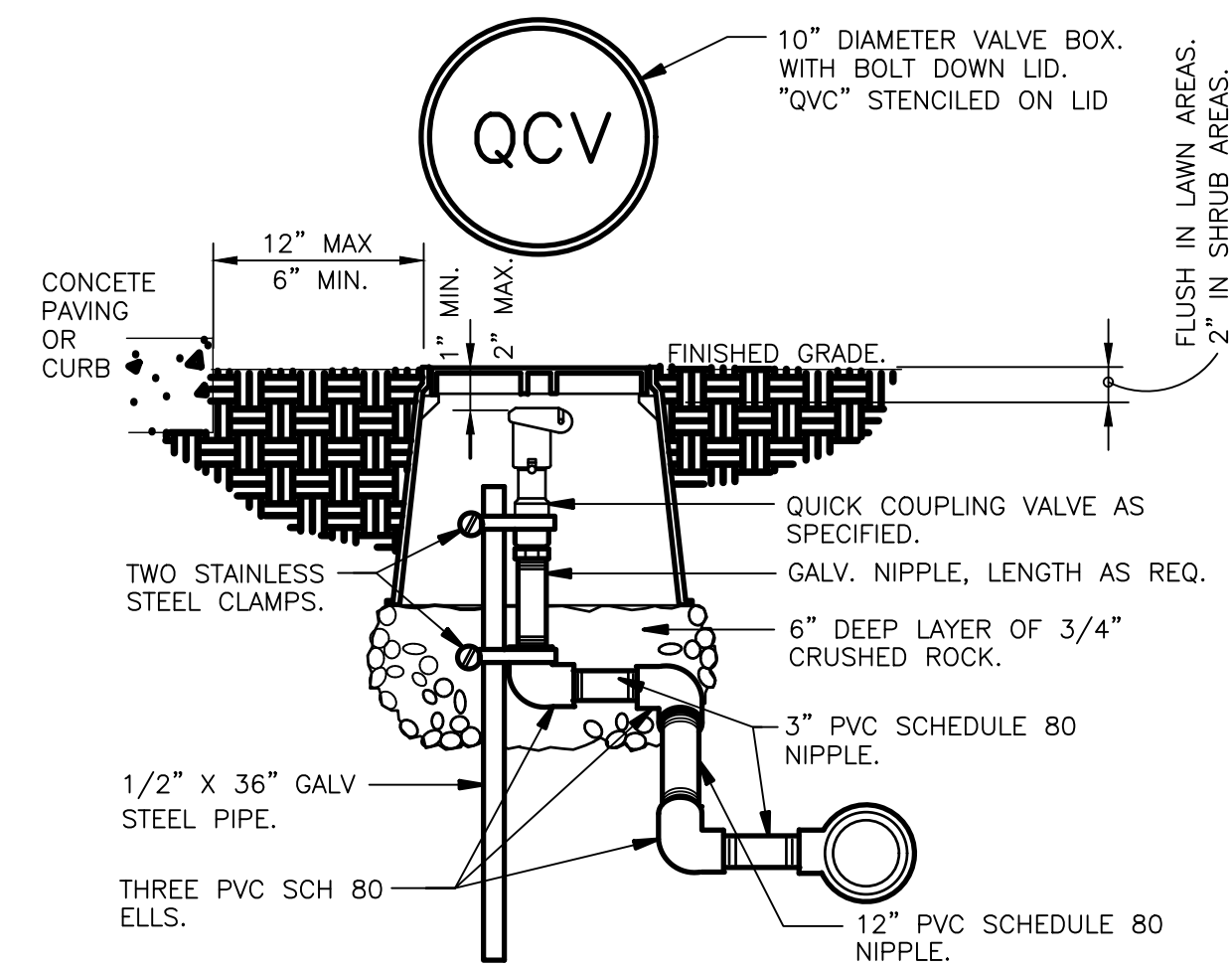


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Drafting Check	L. HALONEN M. KENNEDY	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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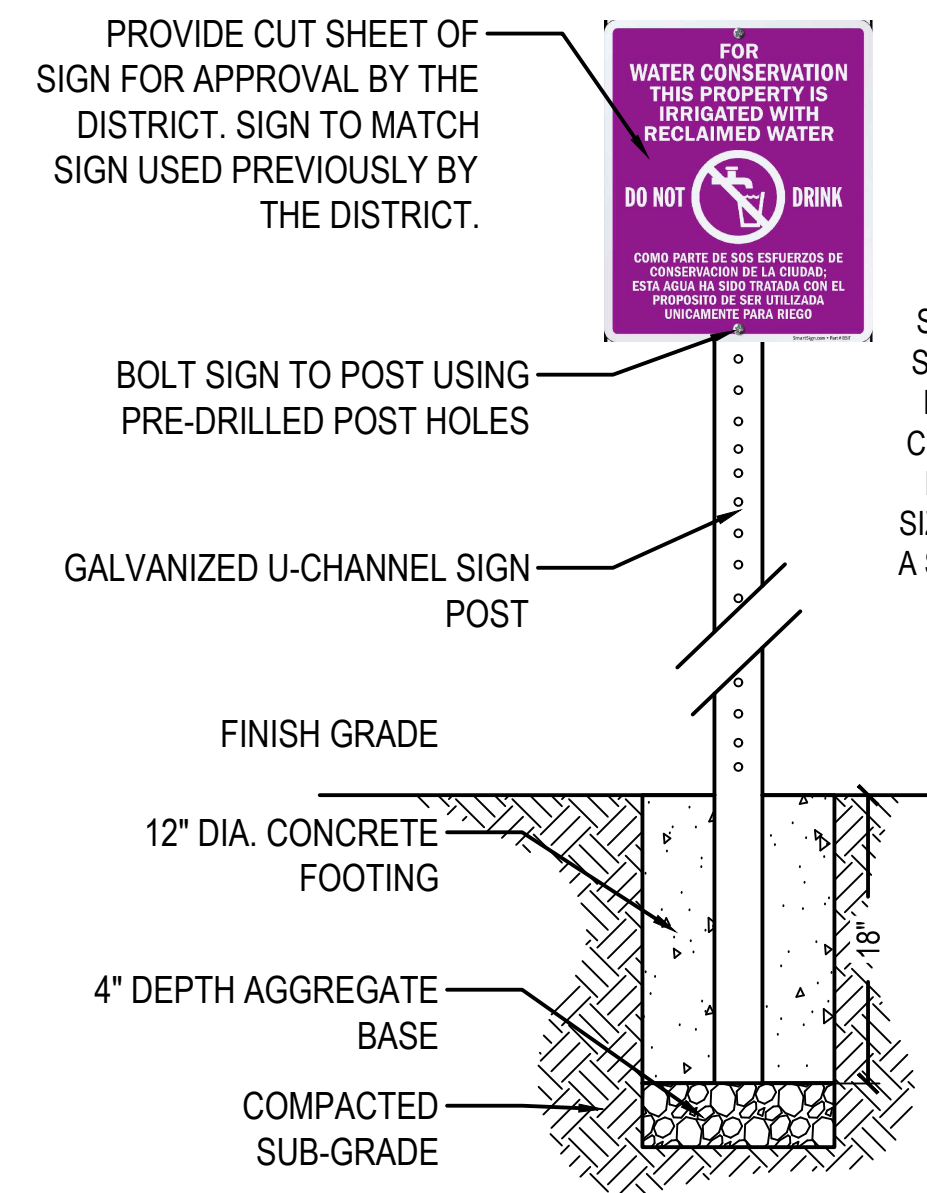
Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS
Title	K-8 SCHOOL RECYCLED WATER SIGN PLAN LAYOUT 4
Project No.	12619547
Original Size	ANSI D
Drawing No.	L-105
Sheet	45 of 53





**1** QUICK COUPLING VALVE  
1 1/2" = 1'-0"

P-FR-01



**2** RECYCLED WATER ADVISORY SIGN  
1" = 1'-0"

POST IN CONSPICUOUS LOCATIONS. SEE IRRIGATION PLAN.

SIGN SHALL BE AN ALLUMINIUM SIGN SIMILAR TO THE EXAMPLE PROVIDED ABOVE. PURPLE IN COLOR WITH WHITE LETTERING. MINIMUM 4" TALL X 8" WIDE IN SIZE. CONTRACTOR TO PROVIDE A SHOP DRAWING OR CUT SHEET OF THE ACTUAL SIGN FOR APPROVAL PRIOR TO INSTALLATION.

PROVIDE CUT SHEET OF SIGN FOR APPROVAL BY THE DISTRICT. SIGN TO MATCH SIGN USED PREVIOUSLY BY THE DISTRICT.

BOLT SIGN TO POST USING PRE-DRILLED POST HOLES

GALVANIZED U-CHANNEL SIGN POST

FINISH GRADE

12" DIA. CONCRETE FOOTING

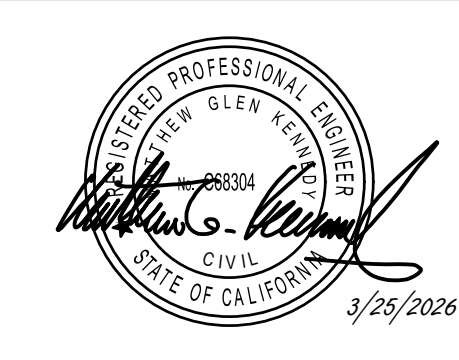
4" DEPTH AGGREGATE BASE

COMPACTED SUB-GRADE

<b>CONFORMED DRAWINGS</b>	<b>CB</b>	<b>MK</b>	<b>3/25/2026</b>	
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Drafting Check	<b>L. HALONEN</b> <b>M. KENNEDY</b>	Design Check	<b>M. KENNEDY</b>
Project Manager	<b>M. KENNEDY</b>	Date	<b>MARCH 2026</b>
		Scale	<b>AS SHOWN</b>

Client	<b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b>		
Project	<b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b>		
Title	<b>IRRIGATION DETAILS 2</b>		
Project No.	<b>12619547</b>		
Original Size	<b>ANSI D</b>	Drawing No.	<b>L-502</b>
Sheet	<b>47</b>	of	<b>53</b>

**RECYCLED WATER NOTES**

- Recycled water is provided by the Mendocino City Community Services District (District) Recycled Water Program. Recycled water is disinfected tertiary treated. Contractor shall contact the District at (707) 937-5790 or (707) 937-5751 prior to start of work and verify that all use requirements have been met and work may proceed.
- Ordinances, requirements, and applicable standards of governmental agencies having jurisdiction within the District's service area shall be observed in the design and construction of recycled water systems. Such requirements include but are not limited to current revisions of the following:
  - The Uniform Plumbing Code as amended by the County of El Dorado.
  - Local Municipal Code, as applicable.
  - State of California Department of Public Health, Title 22.
  - Regional Water Quality Control Board Regulations.
  - Administrative Regulations and Board Policies.
- The onsite installation of all recycled water and drinking water systems shall be accomplished under the approval, inspection, and to the satisfaction of the District.
- The contractor or site supervisor shall call (707) 937-5790 to schedule a pre-construction meeting with the District prior to the installation of any recycled water and drinking water piping.
- The District shall be notified two (2) days prior to the start of construction at (707) 937-5790.
- The contractor approved shall be responsible for providing access to and cooperation with a District inspector to perform all testing and inspections.
- Connections to the existing recycled water facilities shall be done by a licensed contractor in accordance with District connection procedures. Service connection per Civil Plans, irrigation contractor work begins downstream of backflow prevention device.
- There shall be no connections between the potable and recycled water systems.
- Recycled water shall not be used for any purpose other than as shown on these plans.
- Hose bibs are prohibited on the recycled water system.
- Water used in hose bibs shall be potable water and all hose bibs shall be attached to the building. Proposed deviations to comply with city or county ordinances shall be submitted in writing in conjunction with the plan review submittal.
- A minimum of four (4) feet horizontal separation must be maintained at all times between the constant pressure recycled and potable water lines. A minimum of one (1) foot vertical separation must be maintained at all times between constant pressure recycled and potable water line crossings with the recycled waterline below the potable.
- Approved blue warning tape shall be installed above all constant pressure potable main line piping.
- Approved purple warning tape shall be installed above all constant pressure recycled water main line piping.
- Recycled water piping shall be purple and identified as recycled water pipes by continuous marking on both sides. The markings shall include the following: "WARNING RECYCLED WATER – DO NOT DRINK".
- All recycled water sprinkler control valves, isolation valves, quick couplers, regulators, ARVs, and devices shall be tagged. Identification shall be weatherproof purple plastic, 3-inches by 4-inches with the words "WARNING RECYCLED WATER – DO NOT DRINK". Imprinting shall be permanent. Use tags manufactured by T. Christy Enterprises or approved equal.
- All areas where recycled water is used shall be posted approved with signage. Each sign shall state "RECYCLED WATER – DO NOT DRINK" and display the international "Do Not Drink" symbol.
- All spray heads shall be adjusted to minimize overspray onto adjacent hardscapes.
- Before occupation, a cross-connection shutdown test and inspection will be performed by a District inspector.

**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird 3504-PC-NP Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. With Non-Potable Purple Cover.	14
	Rain Bird 3504-PC-NP Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. With Non-Potable Purple Cover.	4
	Rain Bird 8005-NP Turf Rotor, 5.0" Pop-Up, Plastic Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT. Extended Radius is Ideal for Large Turf Applications. Non-Potable Purple Cap.	23

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Turf Watering Valve Rain Bird PESBR-PRS-D, Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, Purple Flow Control Handle. Install with pressure regulating dial module. 1" Valves shall be set to 45PSI and 1.5" valves shall be set to 50PSI. Size valves as shown on plans.	7
	1" Brass Quick-Coupling Valve Rain Bird model: 5-NP, with Corrosion-Resistant Stainless Steel Spring, Locking Non-Potable Purple Rubber Cover, and 1-Piece Body.	1
	Master Valve 1-1/2" Rain Bird PESBR, Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle. Install with recycled water tags. Size as shown on plans.	1
	Smart Controller 12 Station Commercial Outdoor Controller mounted to dugout wall in a stainless steel cabinet. Controller to have flow sensing, rain sensing, and master valve shut off built-in capabilities. Add additional station modules as needed and reconnect existing control wires to maintain operation and irrigation coverage of existing valves to remain. Use and extend as needed existing electrical wiring from old controller to power new controller. Rainbird Model ESP-12LXMEF controller with LXMSS or Equal. See detail for cabinet and controller installation.	1
	Rain Sensor Rain sensor that is compatible with irrigation controller. Mount per manufacturer recommendation with metal latching bracket to controller or other secure structure that is in an area free from overhead obstruction. House communication wire in a 1" gray conduit. Rainbird Model RSD-BEx or Equal.	1
	Flow Sensor 1.5" Brass Impeller Flow Sensor that is compatible with controller. Flow sensor shall have a minimum suggested operating range of 4gpm - 80gpm. Rainbird Model FS150B or Equal.	1
	Point of Connection 3" Stubbed Mainline POC By Civil. See Civil Plans for Meter, Backflow, and RW Main Routing.	1

**CRITICAL ANALYSIS**

Generated:	2021-11-01 13:04
P.O.C. NUMBER: 01	
Water Source Information:	Stubbed Mainline POC By Civil. See Civil Plans for Meter, Backflow, and RW Main Routing.
FLOW AVAILABLE	
Point of Connection Size:	3"
Flow Available:	170.11 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	68.00 PSI
Pressure Available:	68.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	46.50 gpm
Flow Available at POC:	170.11 gpm
Residual Flow Available:	123.61 gpm
Critical Station:	3
Design Pressure:	50.00 psi
Friction Loss:	6.51 psi
Fittings Loss:	0.65 psi
Elevation Loss:	0.00 psi
Loss through Valve:	3.18 psi
Pressure Req. at Critical Station:	60.35 psi
Loss for Fittings:	0.01 psi
Loss for Main Line:	0.12 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Loss for Master Valve:	3.18 psi
Critical Station Pressure at POC:	63.66 psi
Pressure Available:	68.00 psi
Residual Pressure Available:	4.34 psi

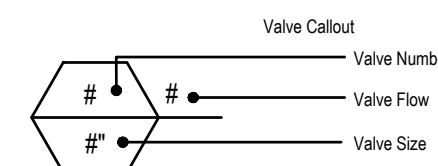
**GENERAL IRRIGATION NOTES**

- Irrigation Point of Connection (POC) is as identified on the plan. Water source is recycled water provided by Mendocino Community Service District.
- Reclaimed irrigation meter and backflow set by others per Civil Engineering plans.
- Plan is diagrammatic and not intended to show exact locations of piping and valves, except where noted and specifically shown on the drawings. All main line, and valves shall be installed within the planting areas, whether shown there or not.
- Irrigation mainline pipe size to be a consistent 2.5" dia. sch 40 pvc.
- Control Wire: Route irrigation control wire to be placed in a 1" diameter SCH. 40 gray electrical conduit from controller to valve locations.
- Flow Sensor: Place flow sensor data cable from controller to master valve/flow sensor in its own 1" diameter SCH. 40 gray electrical conduit.
- Sleeving: Coordinate sleeve installation with roadway / sidewalk paving improvements. SCH. 40 pvc sleeves to be used under all aisle pavement and concrete walks. Sleeve size to be twice the size of the line it is protecting. See details. Irrigation sleeves to extend a minimum of 12" beyond back of curb/walk. Irrigation Mainline to be placed in its own separate sleeve.
- State Model Water Efficient Landscape Ordinance: The irrigation system is designed to comply with the State Model Water Efficient Landscape Ordinance.
- Installation Scheduling: Irrigation system shall not be installed until landscape grading is complete, and approved by Owner.
- Code Conformance: Irrigation system shall be installed in accordance with all local and State codes and regulations. All materials shall be in new perfect condition and commercial grade. Deviations from the specified must be "or equal" or approved by the Landscape Architect or Owner.
- Flow Control: Adjust flow controls on all remote control valves to correct operating pressure at all rotors.
- Rotor Heads: Rotor heads are located on the drawings to achieve head to head spacing. Contractor to ensure that heads are placed at locations shown and adhere to this requirement.

**VALVE SCHEDULE**

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Turf Watering Valve	1"	Turf Rotor	18.50	16.2	53.54	57.08	0.53 in/h
2	Turf Watering Valve	1-1/2"	Turf Rotor	46.50	20.9	56.12	58.55	1.36 in/h
3	Turf Watering Valve	1-1/2"	Turf Rotor	27.90	33.6	60.34	63.66	0.3 in/h
4	Turf Watering Valve	1-1/2"	Turf Rotor	27.90	38.8	56.87	60.21	0.44 in/h
5	Turf Watering Valve	1-1/2"	Turf Rotor	27.90	43.1	57.9	61.24	0.71 in/h
6	Turf Watering Valve	1-1/2"	Turf Rotor	37.20	47.8	57.99	60.81	0.88 in/h
7	Turf Watering Valve	1-1/2"	Turf Rotor	46.50	27.2	60.53	63	0.7 in/h

- Irrigation Lateral Line: PVC Schedule 40-NP  
Size line as shown. Non-Potable Purple Pipe. See Recycled Water Notes and Specs. 2,211 l.f.
- Irrigation Mainline: PVC Schedule 40-NP  
2.5" Mainline. Non-Potable Purple Pipe. See Recycled Water Notes and Specs. 169.6 l.f.

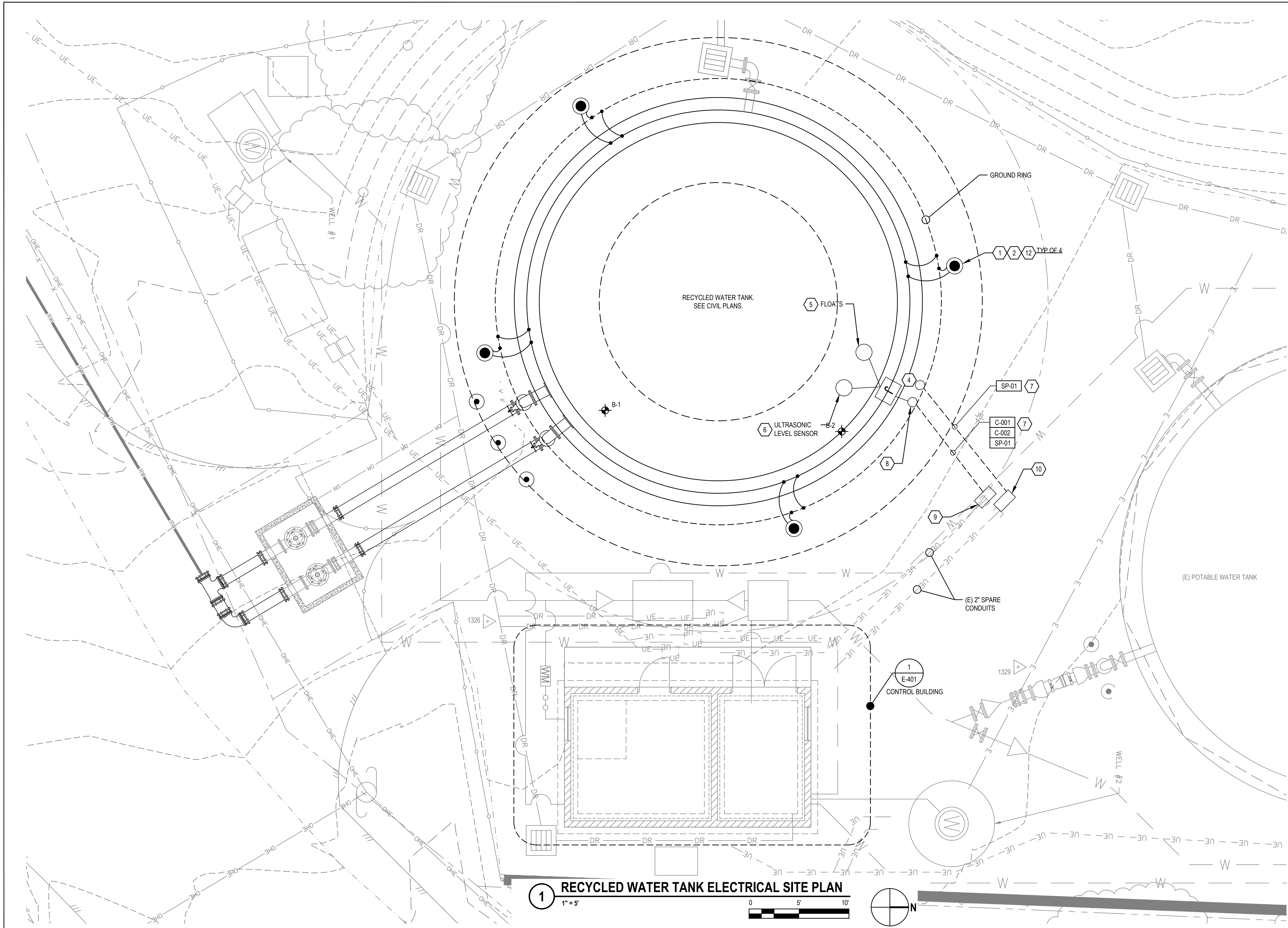


EXAMPLE RECYCLED WATER STICKERS AND TAGS

**Include Recycle Water tags on all Irrigation Items. See Reclaimed Water Notes this sheet.**

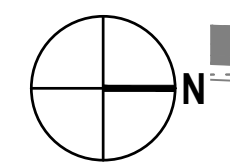
<p>Bar is one inch on original size sheet 0 1"</p>								<p>Drawn <b>D. AGUAS</b> <b>C. BACH</b></p> <p>Drafting Check <b>L. HALONEN</b> <b>M. KENNEDY</b></p> <p>Project Manager <b>M. KENNEDY</b></p>		<p>Designer <b>L. HALONEN</b></p> <p>Design Check <b>M. KENNEDY</b></p> <p>Date <b>MARCH 2026</b></p>		<p>Client <b>MENDOCINO CITY COMMUNITY SERVICES DISTRICT</b></p> <p>Project <b>RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS</b></p> <p>Title <b>IRRIGATION SCHEDULES AND RECYCLED WATER NOTES</b></p>	
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No.	Issue	Drawn	Approved	Date									
		CB	MK	3/25/2026									





- GENERAL NOTES**
1. PROVIDE CONDUIT AND WIRE IN TRENCH AS SHOWN IN PLANS. SEE CONDUIT AND CABLE SCHEDULE ON SHEET E-601 FOR SIZES.
  2. INSTALL CONDUITS IN TRENCHES. REFER TO TRENCHING AND CONDUIT STUB UP DETAILS ON SHEET E-501.
  3. REFER TO TANK GROUNDING AND TANK CONDUIT MOUNTING DETAILS ON SHEET E-501.
- KEYNOTES**
1. PROVIDE 5/8" X 10' LONG COPPER GROUND ROD. PROVIDE #4/0 BARE COPPER WIRE TO GROUND RING. PROVIDE EXOTHERMIC WELDS TO BOTH ROD AND RING. SET GROUND ROD JUST OUTSIDE FOUNDATION AND LEAVE TOP 6" OF ROD EXPOSED ABOVE GRADE FOR TESTING.
  2. PROVIDE #4/0 BARE COPPER CABLE GROUNDING RING WITH (4) LEADS UP TO TANK SIDE. PROVIDE CADWELD (EXOTHERMIC WELD) TO SIDE OF TANK AND EACH GROUNDING ROD FOR LIGHTING PROTECTION PER NFPA 22 SECTION 4.9.
  3. PROVIDE #4/0 BARE COPPER WIRE, BOND GROUNDING RING WITH REBAR IN TANK FOUNDATION.
  4. PROVIDE JUNCTION BOX WITH TERMINAL STRIPS (POWER AND SIGNAL) AT TOP OF THE TANK TO TRANSITION BETWEEN MANUFACTURER'S CABLES AND INSTRUMENTATION CABLE TO RTU.
  5. PROVIDE HIGH LEVEL AND LOW LEVEL FLOAT SWITCH WITH MANUFACTURER CABLING IN TANK. TERMINATE FLOAT CABLES AT J-BOX AT TOP OF TANK. PROVIDE 3/4" CONDUIT BETWEEN DEVICE AND J-BOX.
  6. PROVIDE ULTRASONIC LEVEL SENSOR AND MANUFACTURER CABLING AT TOP OF TANK. TERMINATE CABLES AT J-BOX AT TOP OF TANK. PROVIDE 3/4" CONDUIT BETWEEN DEVICE AND J-BOX.
  7. PROVIDE CONDUIT IN TRENCH FROM PULL BOX TO TANK PER CONDUIT AND CABLE SCHEDULE.
  8. TRANSITION TO SURFACE MOUNT CONDUIT FROM STUB UP TO JUNCTION BOX AT TOP OF TANK. MOUNT CONDUIT ON TANK. SEE DETAIL 2 ON SHEET E-501.
  9. PROVIDE 17" X 11" TRAFFIC RATED SIGNAL PULL BOX WITH STEEL COVER. INTERCEPT SPARE CONDUIT.
  10. PROVIDE 24" X 36" TRAFFIC RATED POWER PULL BOX WITH STEEL COVERS. INTERCEPT SPARE CONDUIT.

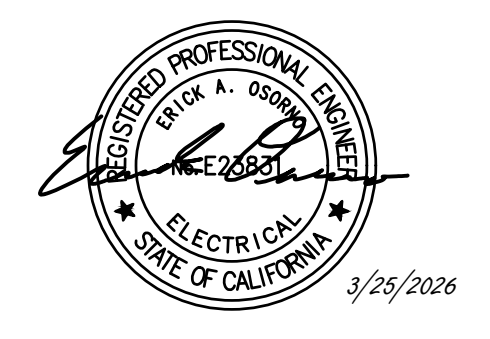
**1 RECYCLED WATER TANK ELECTRICAL SITE PLAN**  
1" = 5'



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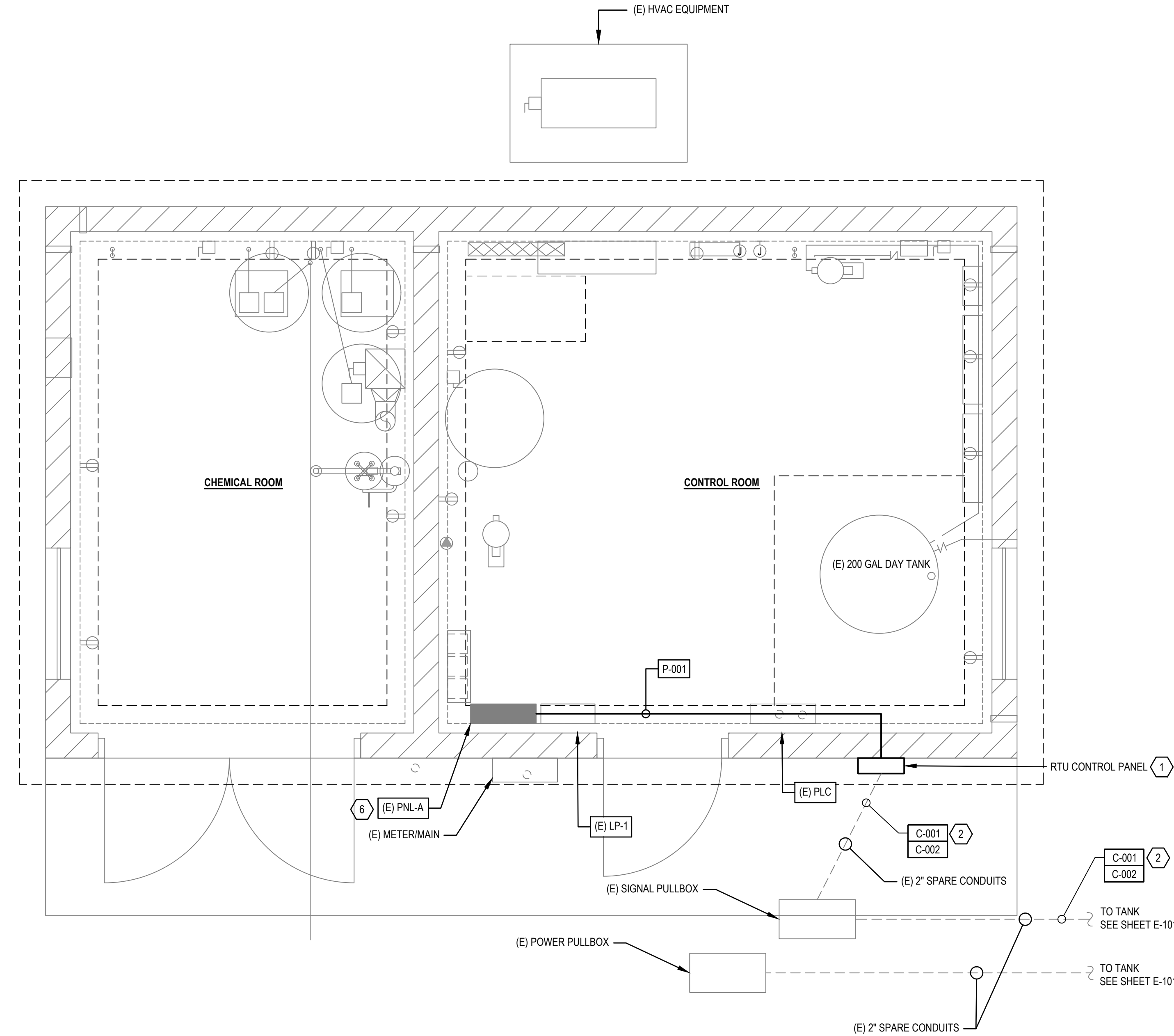
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Drafting Check	E. OSORNO	Design Check	M. KENNEDY
Project Manager	M. KENNEDY	Date	MARCH 2026
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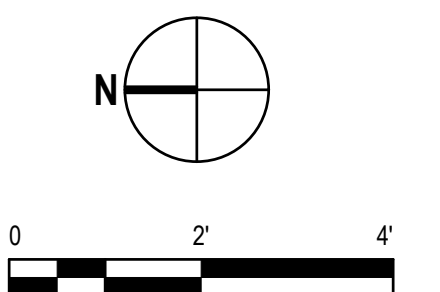
Client	MENDOCINO CITY COMMUNITY SERVICES DISTRICT		
Project	RECYCLED WATER DISTRIBUTION AND STORAGE IMPROVEMENTS		
Title	RECYCLED WATER TANK ELECTRICAL SITE PLAN		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	E-101		
Sheet	50	of	53

**KEYNOTES**

1. PROVIDE CONTROL PANEL COMPLETE RTU, POWER SUPPLIES, MODULES, ETHERNET SWITCH, CELLULAR MODEM AND ALL ASSOCIATED COMPONENTS FOR A COMPLETE OPERATING SYSTEM TO MEET CLIENT STANDARDS. PROVIDE 3' X 3' X 12" DEEP NEMA 3R ENCLOSURE WITH HMI INTERFACE INSIDE OF ENCLOSURE. ESTABLISH COMMUNICATION WITH PLC-100 AT THE WWTP SITE. SEE RISER DIAGRAM ON SHEET E-602.
2. ROUTE CABLES VIA (E) CONDUIT.



**1 CONTROL BUILDING ELECTRICAL ENLARGED PLAN**  
SCALE: 1" = 2'



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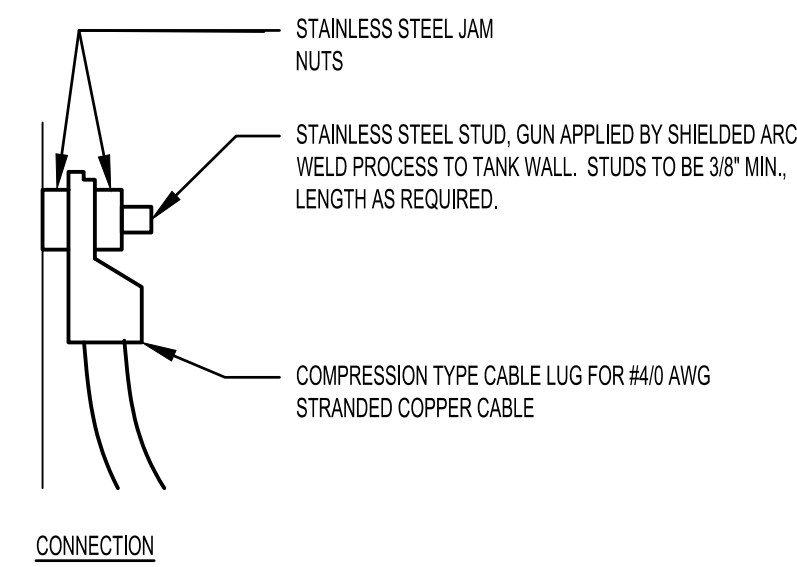
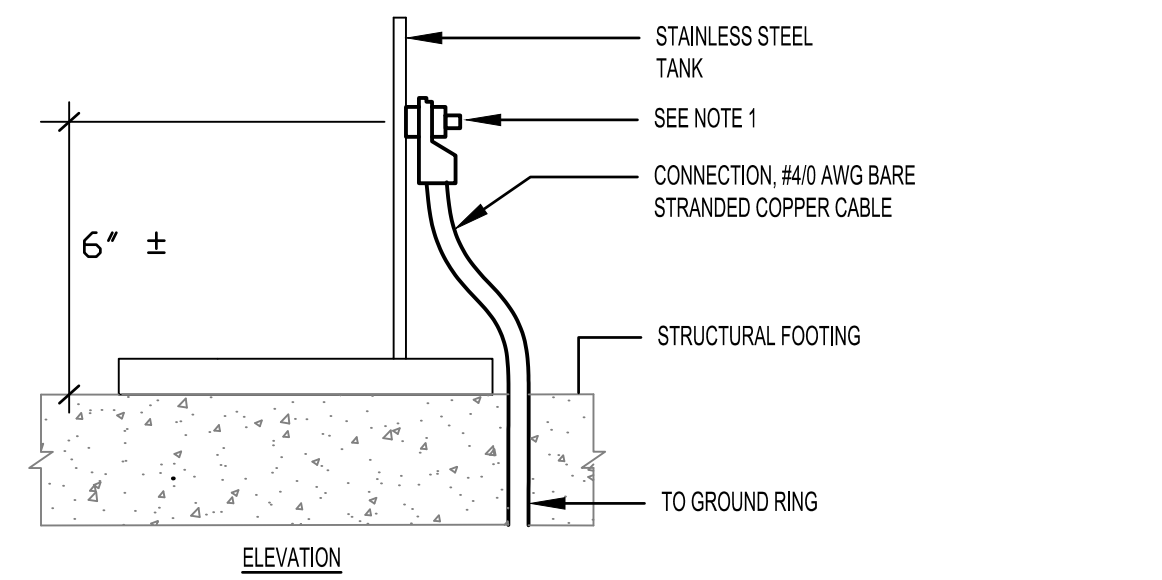
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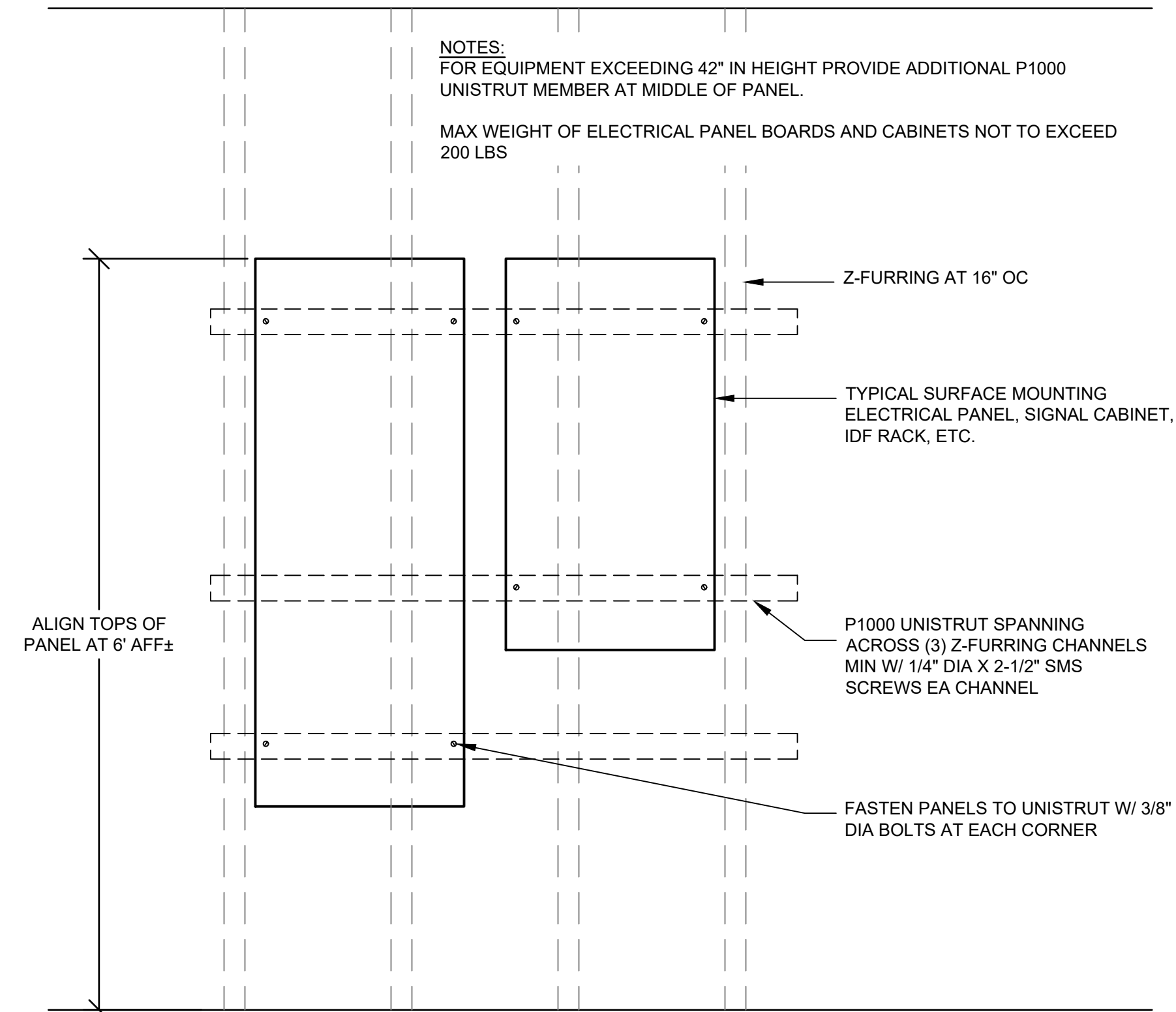
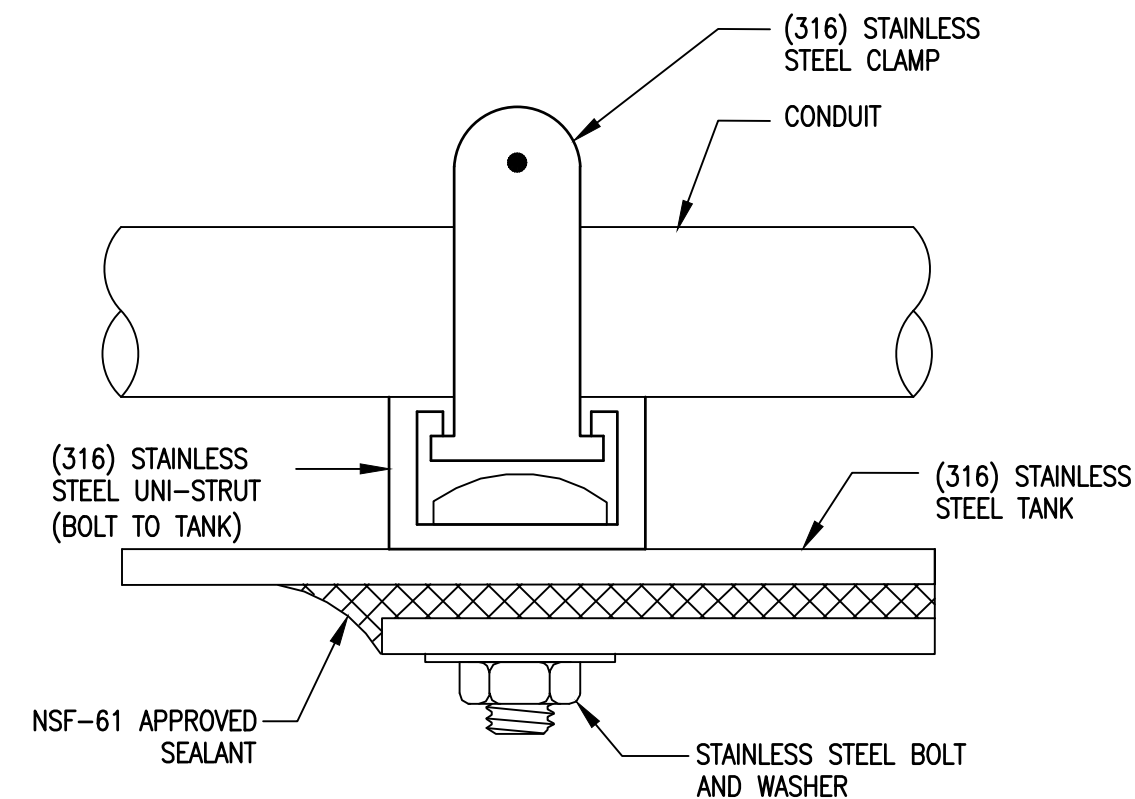
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Project Manager	M. KENNEDY	Date	MARCH 2026
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Title	CONTROL BUILDING ELECTRICAL ENLARGED PLAN		
Project No.	12619547		
Original Size	ANSI D	Drawing No.	E-401
Sheet	51	of	53



NOTES:  
1. EXOTHERMIC WELD CONNECTION MAY BE USED IN LIEU OF CONNECTION INDICATED. USE ER316 WELD FILLER.



**1 METHOD FOR GROUNDING STEEL TANK**

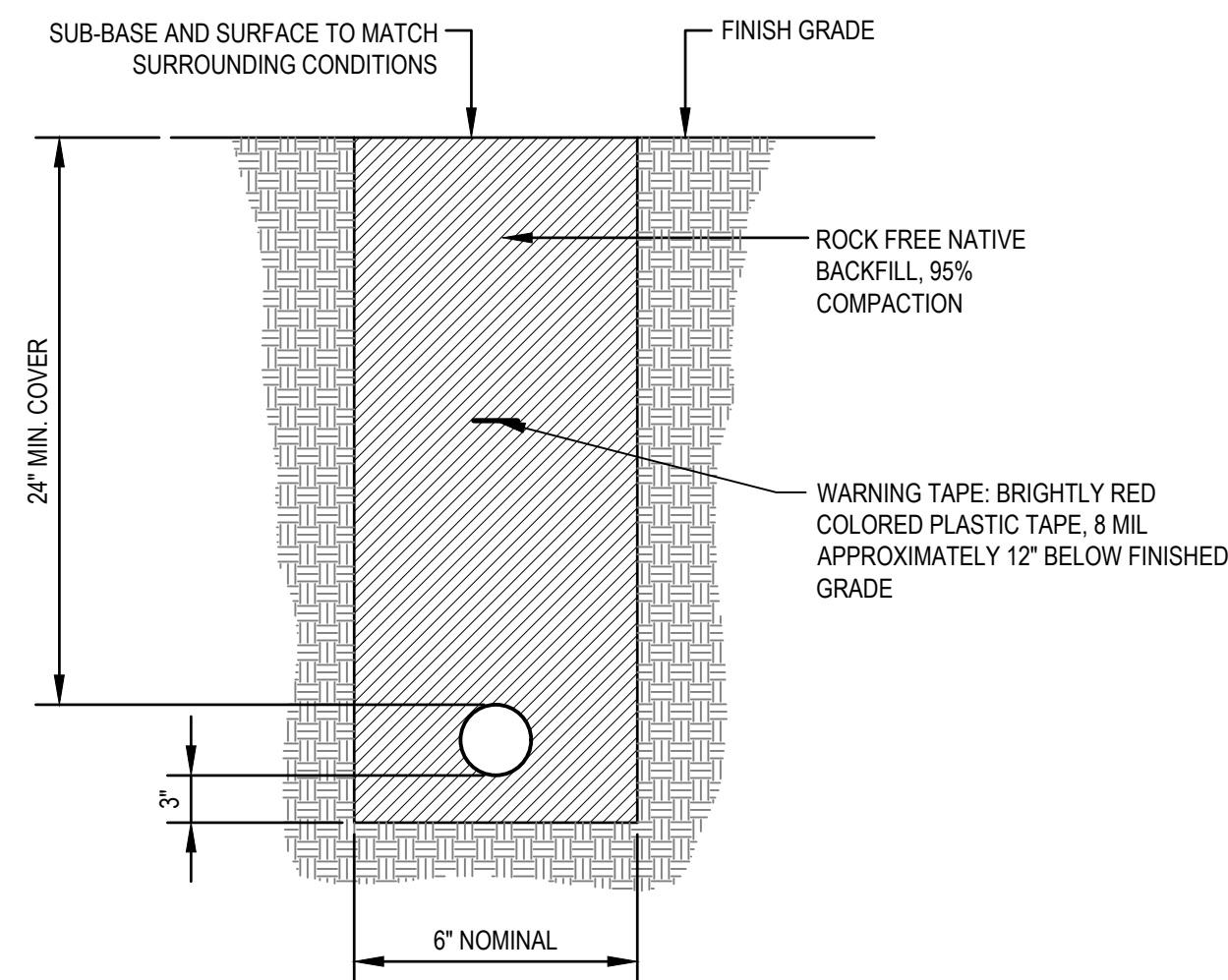
NOT TO SCALE

**2 CONDUIT MOUNTING ON TANK**

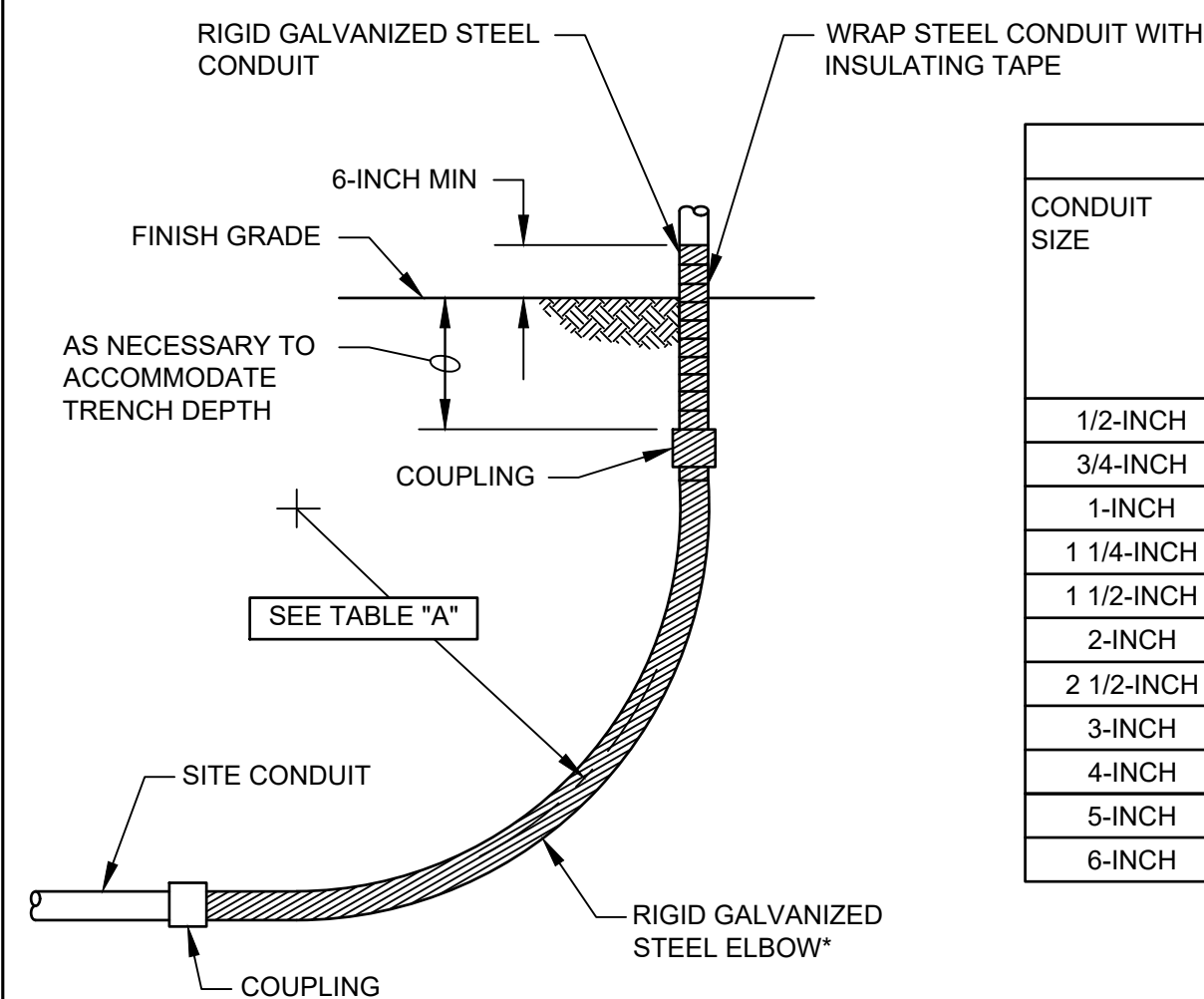
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**3 SURFACE ELECTRICAL EQUIPMENT**

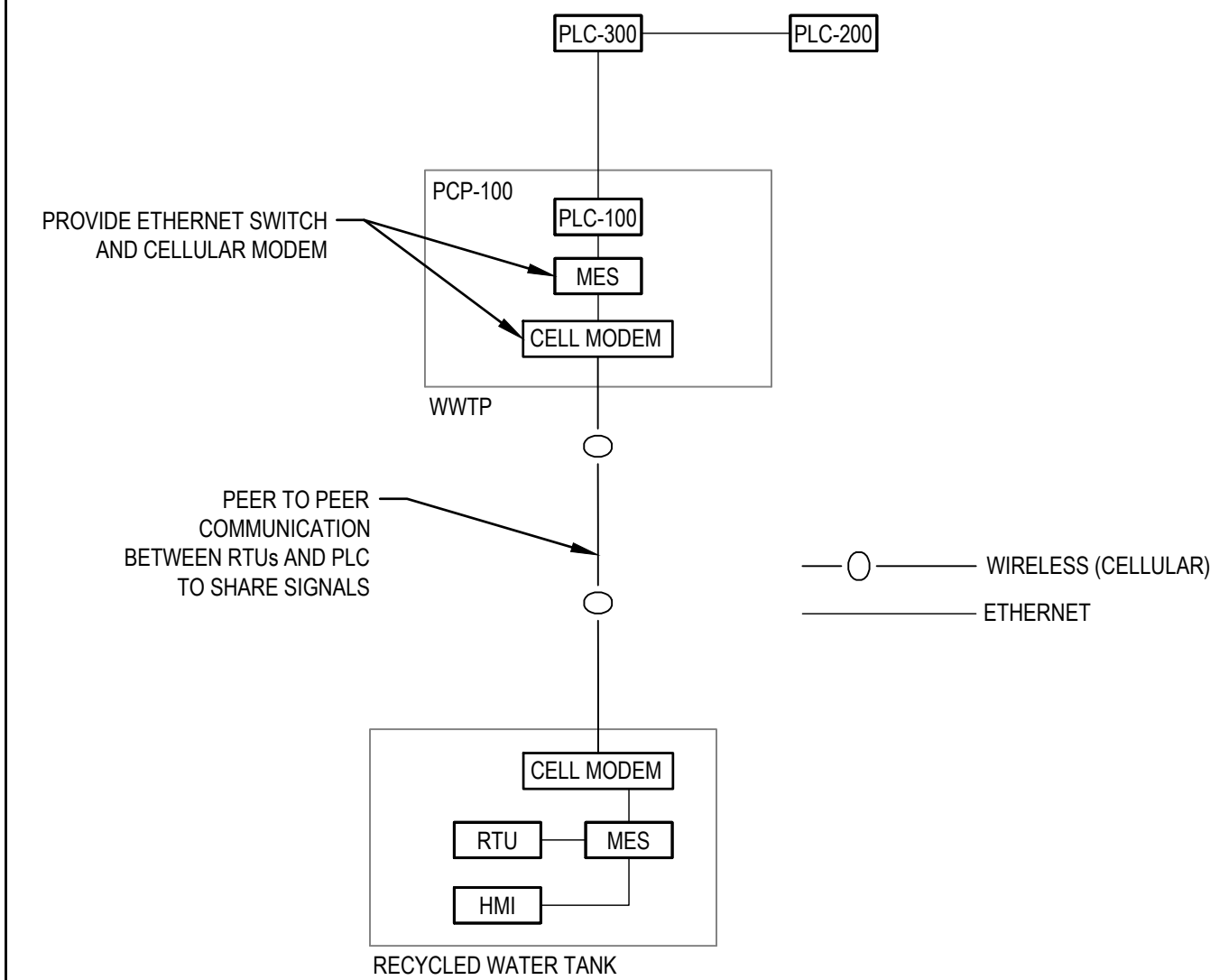
NOT TO SCALE



NOTE:  
MAINTAIN A MINIMUM VERTICAL SEPARATION OF 12" WHEN CROSSING UTILITIES. ROUTE CONDUIT EITHER ABOVE OR BELOW OTHER UTILITIES AS NECESSARY TO ACHIEVE THIS SEPARATION WHILE MAINTAINING THE MINIMUM BACKFILL COVERAGE.



CONDUIT SIZE	MINIMUM ELBOW RADIUS REQUIREMENTS	
	RUNS 0-100 FEET	RUNS GREATER THAN 101 FEET
1/2-INCH	4-INCH	4-INCH
3/4-INCH	4 1/2-INCH	4 1/2-INCH
1-INCH	5 3/4-INCH	5 3/4-INCH
1 1/4-INCH	7 1/4-INCH	7 1/4-INCH
1 1/2-INCH	8 1/4-INCH	8 1/4-INCH
2-INCH	9 1/2-INCH	9 1/2-INCH
2 1/2-INCH	10 1/2-INCH	11 7/16-INCH
3-INCH	13-INCH	13 3/4-INCH
4-INCH	16-INCH	18 1/4-INCH
5-INCH	24-INCH	-
6-INCH	30-INCH	-



**4 TYPICAL ELECTRICAL TRENCH**

NOT TO SCALE

**5 TYPICAL CONDUIT STUB-UP**

NOT TO SCALE

**6 RECYCLED WATER SIGNAL DIAGRAM**

NOT TO SCALE

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Title	ELECTRICAL DETAILS 1		
Project No.	12619547		
Original Size	ANSI D		
Drawing No.	E-501		
Sheet	52	of	53

PANEL SCHEDULE																		
PANEL NAME: A			VOLTAGE: 240/120			NEMA RATING: 3R			MOUNTING: SURFACE			NOTES: ITALIC TEXT INDICATES EXISTING LOADS. BOLD TEXT ARE NEW LOADS.						
MAINS RATING: 200			PHASE: 3			AIC RATING: 10K			LOCATION:									
BUS RATING: 200			WIRE: 4			DEMAND FACTOR: STD												
CKT NO.	USE	DESCRIPTION	BKR SIZE	CKT KVA	CKT AMPS	WIRE SIZE	WIRE LENGTH (FT)	VOLTAGE DROP %	PHASE	VOLTAGE DROP %	WIRE LENGTH (FT)	WIRE SIZE	CKT AMPS	CKT KVA	BKR SIZE	DESCRIPTION	USE	CKT NO.
1	M	WELL PUMP #1	20/2	0.59	4.92	10	100	0.43	A	0.32	75	10	4.92	0.59	20/2	WELL PUMP #2	M	2
3	M	INT LIGHTING EXT LIGHTING LP-1	20/2	0.59	4.92	10	100	0.43	B	0.32	75	10	4.92	0.59	20/2	CHLORINE/PH ANALYZERS	R	4
5	L	CHEMICAL RM RECEPTACLES	20/1	0.12	1.00	12	45	0.12	C	0.01	30	12	0.17	0.02	20/1	CONTROL RM RECEPTACLES	R	6
7	R	WELL PUMP #6	20/1	0.54	4.50	12	50	0.62	A	1.23	75	12	6.00	0.72	20/1	STINGER LEG UNAVAILABLE		8
9	M	WELL PUMP #6	20/2	0.59	4.92	10	150	0.65	B	0.30	25	12	4.17	0.50	20/1	CONTROL PANEL-PLC	O	10
11	M	WELL PUMP #6	20/2	0.59	4.92	10	150	0.65	C	0.05	40	12	0.42	0.05	20/1	EXHAUST FAN EF-1	M	12
13	O	WATER HEATER	60/2	5.00	41.67	4	25	0.26	A	0.05	40	12	0.42	0.05	20/1	STINGER LEG UNAVAILABLE		14
15	O	WATER HEATER	60/2	5.00	41.67	4	25	0.26	B	0.12	50	12	0.83	0.10	20/1	CHEMICAL INJECTION PUMP CP-1/CP-3	M	16
17	M	HEAT PUMP HP-1 / FAN COIL FC-1	30/2	1.33	11.08	10	50	0.49	A	0.06	50	12	0.42	0.05	20/1	CHEMICAL INJECTION PUMP CP-2	M	18
19	M	HEAT PUMP HP-1 / FAN COIL FC-1	30/2	1.33	11.08	10	50	0.49	B							SPARE		20
21	H	EHU-1	20/2	1.50	12.50	12	50	0.90	C							SPARE		22
23	H	EHU-1	20/2	1.50	12.50	12	50	0.90	A			10	4.92	0.59	20/2	(F) WELL PUMP #10	M	24
25	H	EHU-2	20/2	1.50	12.50	12	50	0.90	B			10	4.92	0.59	20/2	(F) WELL PUMP #10	M	26
27	H	EHU-2	20/2	1.50	12.50	12	50	0.90	C			10	4.92	0.59	20/2	(F) WELL PUMP #10	M	28
29	M	BOOSTER PUMP BP-2	20/2	0.95	7.92	12	15	0.17	A			8	4.92	0.59	20/2	(F) WELL PUMP #11	M	30
31	M	BOOSTER PUMP BP-2	20/2	0.95	7.92	12	15	0.17	B			8	4.92	0.59	20/2	(F) WELL PUMP #11	M	32
33	O	BP-1 AQUA BOOST/CHEM INJ PUMP	20/1	0.50	4.17	20	30	0.56	C							SPARE		34
35	O	BP-1 AQUA BOOST/CHEM INJ PUMP	20/1	0.50	4.17	20	30	0.56	A							SPARE		36
37	M	TURBIDIMETER	20/1	0.50	4.17	12	25	0.30	B			8	4.92	0.59	20/2	(F) WELL PUMP #13	M	38
39	M	STINGER LEG UNAVAILABLE							C			8	4.92	0.59	20/2	(F) WELL PUMP #13	M	40
41	M	(F) WELL PUMP #7	20/2	0.59	4.92	10			A	1.46	100	10	8.33	1.00	20/1	GENERATOR BLOCK HEATER	M	42
43	M	(F) WELL PUMP #7	20/2	0.59	4.92	10			B	1.46	100	10	8.33	1.00	20/1	GENERATOR BATTERY CHARGER	M	44
45	M	(F) WELL PUMP #8	20/2	0.59	4.92	10			C			8	4.92	0.59	20/2	(F) WELL PUMP #15	M	46
47	M	(F) WELL PUMP #8	20/2	0.59	4.92	10			A	0.04	75	12	0.17	0.02	20/1	MAGNETIC FLOWMETER	O	48
49	M	(F) WELL PUMP #9	20/2	0.59	4.92	10			B			8	4.92	0.59	20/2	(F) WELL PUMP #14	M	50
51	M	(F) WELL PUMP #9	20/2	0.59	4.92	10			C	2.00		8	4.92	0.59	20/2	(F) WELL PUMP #14	M	52
53	O	FLOW LINE LI55	20/1	0.50	4.17	12	20	1.81	A	0.07	30	12	0.83	0.10	20/1	CHEMICAL INJECTION PUMP	M	54
55	O	PLC PANEL	20/1	0.50	4.17	12	20	1.81	B							STINGER LEG UNAVAILABLE		56
57		STINGER LEG UNAVAILABLE							C	0.18	15	12	4.17	0.50	20/1	CONTROL PANEL-PLC - RECEPTACLE	R	58
59		SPARE	20/1						A	0.18	15	12	4.17	0.50	20/1	CONTROL PANEL-PLC - UPS	O	60
61		SPARE	20/1						B			15.00	1.80	20/3	(F) RECIRCULATION PUMP 5HP	M	62	
63		STINGER LEG UNAVAILABLE							C			15.00	1.80	20/3	(F) RECIRCULATION PUMP 5HP	M	64	
65		SPARE	20/1						A			15.00	1.80	20/3	(F) RECIRCULATION PUMP 5HP	M	66	
67		SPARE	20/1						B			15.00	1.80	20/3	(F) RECIRCULATION PUMP 5HP	M	68	
69		STINGER LEG UNAVAILABLE							C						STINGER LEG UNAVAILABLE		70	
71		SPARE	20/1						A						SPACE		72	
73		SPARE	20/1						B						SPACE		74	
75		STINGER LEG UNAVAILABLE							C						STINGER LEG UNAVAILABLE		76	
77		SPARE	20/1						A						SPACE		78	
79		SPARE	20/1						B						SPACE		80	
81		STINGER LEG UNAVAILABLE							C						STINGER LEG UNAVAILABLE		82	
83		SPARE	20/1						A						SPACE		84	

CONDUIT AND CABLE SCHEDULE							
TAG ID	DESCRIPTION	FROM	TO	CONDUIT TYPE	CONDUIT SIZE	CABLE SIZE	COMMENTS
P-001	120V BRANCH CIRCUIT	RTU CONTROL PANEL	PANEL-A	RGS	3/4 INCH	(2) #12, #12 GND	
C-001	TANK LEVEL SENSOR	J-BOX AT TANK	RTU ENCLOSURE	PVC	2 INCH	(1) #16 TSP, (2) #14	TRANSITION TO 1" SURFACE MOUNT CONDUIT WHERE CONDUIT IS EXPOSED. ROUTE VIA (E) CONDUIT WHERE INDICATED.
C-002	TANK LEVEL FLOAT	J-BOX AT TANK	RTU ENCLOSURE	PVC	2 INCH	(1) #16 TSP	TRANSITION TO 1" SURFACE MOUNT CONDUIT WHERE CONDUIT IS EXPOSED. ROUTE VIA (E) CONDUIT WHERE INDICATED.
SP-01	SPARE	SEE SITE PLAN	SEE SITE PLAN	PVC	2 INCH	PULL STRING	

NOTE:  
1. WIRING TYPE SHALL BE PER SPECIFICATION SECTION 260519.

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No.	Issue	Drawn	Approved	Date	Drafting Check E. OSORNO Design Check M. KENNEDY Project Manager M. KENNEDY	Date MARCH 2026 Scale AS SHOWN					Project No. 12619547 Original Size ANSI D Drawing No. E-601		