APPROVALS	Attachr	nent 1	
COUNTY OF SONOM	<u>1A</u>		
SIGNED	DATE		EA
ENGINEER: GHD Inc	<u>)</u>		
A.C.	7/03/2024  DATE		
	AREA N	IAP	
		Calistoga	
	NEVILLE ECT AREA		Dee
	101 Larkfield Wikiup		-
Fores	ville The second s		
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Occidental	Graton Santa	KOSa Annadel State Park Kenwood	
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PRO	ROBLAR JECT AREA	Clén Ellen	
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AN AND IN THE REAL OF		D Reningrove El Vera	Boyes Sprir ano
Mr. College		THE SONOMA PROJECT AREA	Temele
Tomales	N	Petaluma	
		TOT LEASE	August and
SOURCE: GOOGLE MAPS 2022			A.
		CONFORMED DRAWINGS	

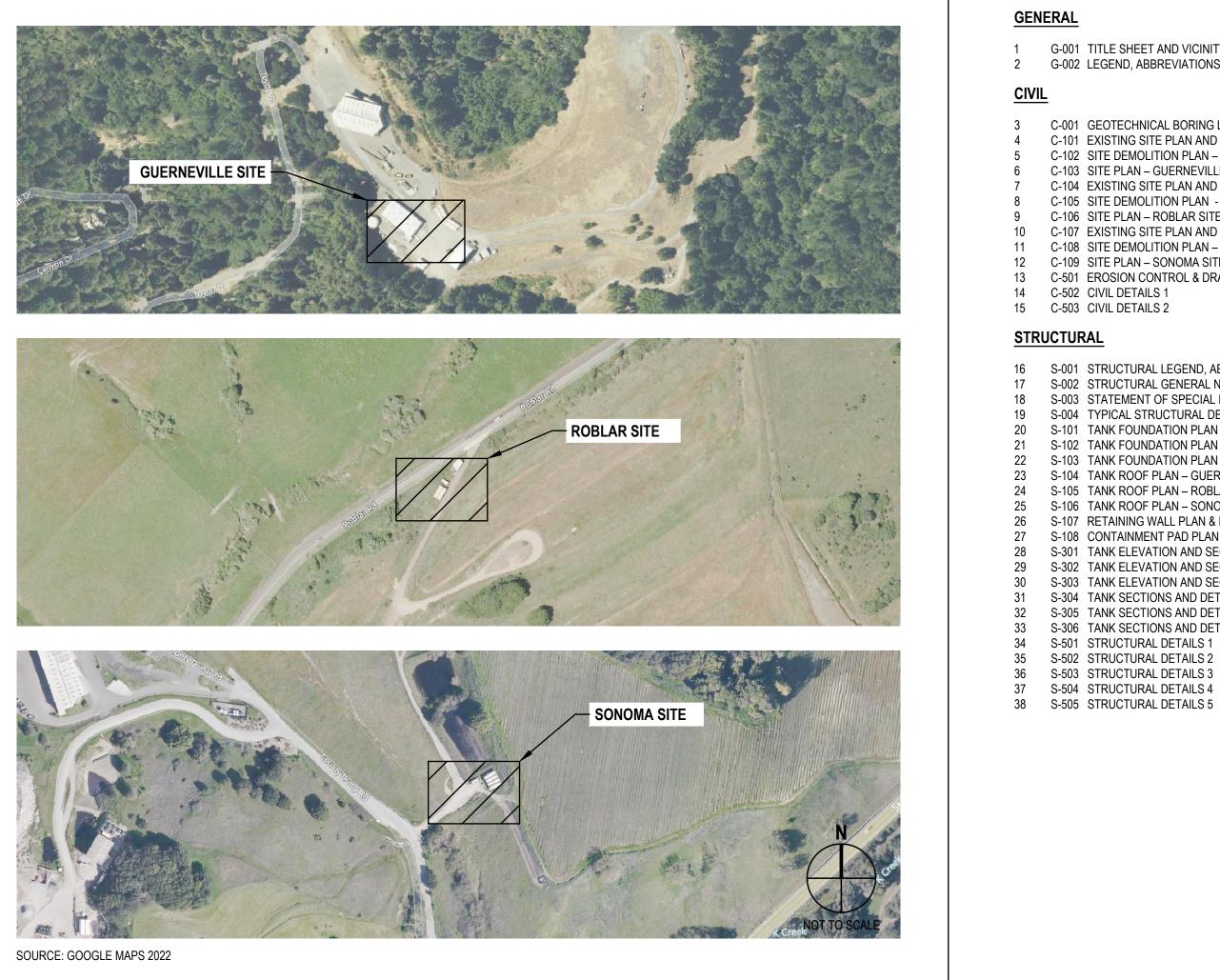
Plot Date: 18 July 2024 - 2:27 PM

Plotted By: Steven Toft

# **COUNTY OF SONOMA** CHATE TANK REPLACEMENT **JULY 2024**

# 

# VICINITY MAP



Bar is one inch on original size sheet 0 1"





GHD Inc. 2235 Mercury Way Suite 150 Santa Rosa California 95407 LU Santa Rosa California 95407 USA T 1 707 523 1010 F 1 707 527 8679



Title SHEET AND VICINITY MAP Client COUNTY OF SONOMA Size ANSI D roject LEACHATE TANK REPLACEMENT Date Scale **G-0**( 7/18/2024 AS SHOWN

Filename: \\ghdnet\ghd\US\San Francisco\Projects\561\12558724\Digital\_Design\ACAD\Sheets\Leachate Tanks\12558724-GHD-0001-DWG-GN-0001.dwg

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ECHNICAL BORING LOGS NG SITE PLAN AND SURVEY CONTROL – GUERNEVILLE SITE EMOLITION PLAN – GUERNEVILLE SITE LAN – GUERNEVILLE SITE NG SITE PLAN AND SURVEY CONTROL – ROBLAR SITE EMOLITION PLAN - ROBLAR SITE LAN – ROBLAR SITE NG SITE PLAN AND SURVEY CONTROL – SONOMA SITE EMOLITION PLAN – SONOMA SITE LAN – SONOMA SITE LAN – SONOMA SITE ON CONTROL & DRAINAGE DETAILS DETAILS 1	42 43 44 45 46 47 48	E-103 E-104 E-105 E-106 E-501 E-601 E-602	ELE ELE ELE ELE
CTURAL LEGEND, ABBREVIATIONS AND GENERAL NOTES CTURAL GENERAL NOTES MENT OF SPECIAL INSPECTIONS AL STRUCTURAL DETAILS FOUNDATION PLAN – GUERNEVILLE SITE FOUNDATION PLAN – GUERNEVILLE SITE FOUNDATION PLAN – ROBLAR SITE ROOF PLAN – GUERNEVILLE SITE ROOF PLAN – GUERNEVILLE SITE ROOF PLAN – ROBLAR SITE NING WALL PLAN & ELEVATION – ROBLAR SITE AINMENT PAD PLAN AND SECTIONS - ALL SITES ELEVATION AND SECTION – GUERNEVILLE SITE ELEVATION AND SECTION – ROBLAR SITE SECTIONS AND DETAILS – GUERNEVILLE SITE SECTIONS AND DETAILS – GUERNEVILLE SITE SECTIONS AND DETAILS – GUERNEVILLE SITE SECTIONS AND DETAILS – ROBLAR SITE SECTIONS AND DETAILS – SONOMA SITE SECTIONS AND DETAILS 3 STURAL DETAILS 3			

### ELECTRICAL

	/11/10/	
39	E-001	ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES
40	E-101	ELECTRICAL DEMOLITION SITE PLAN – GUERNEVILLE SITE
41	E-102	ELECTRICAL SITE PLAN – GUERNEVILLE SITE
42	E-103	ELECTRICAL DEMOLITION SITE PLAN – ROBLAR SITE
43	E-104	ELECTRICAL SITE PLAN – ROBLAR SITE
44	E-105	ELECTRICAL DEMOLITION SITE PLAN – SONOMA SITE
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48	E-602	ELECTRICAL SCHEDULES

	GENERAL NOTES		EROSION CONTROL NOTES
1.         2.         3.         4.         5.         6.         7.         8.         9.         10.         11.         12.         13.         14.         15.         16.         17.         18.         19.         20.         21.         23.	CONTRACTOR SHALL PIED VERY ALL EXISTING SHE COMOTIONS PROVED IT HERE PLANS REV ATTREED COMOTIONS DISCOVERED BY CONTRACTOR THAT MAY PIEUN OR PLANS REV THEED COMOTIONS DISCOVERED BY CONTRACTOR THAT MAY PIEUN OR PLANS REV THE CONTRACTOR AND REVEALED Y CONTRACTOR IN THESE PLANS REV ATTREED COMOTIONS DISCOVERED BY CONTRACTOR AND DISCOVERY. SAD NOTFREATION SHALL BE IN WRITING. CONTRACTOR AGRESS THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTITUCTION THAT THE CONTRACTOR WILL BE REQUIRED TO ASSUME GOLE AND COMPLETE RESPONSEMENT POR JOB STE CONSTITUNT DURING THE CLURSS C P CONSTITUCTION DIFFERENCE TO LINE ON THE CONTRACTOR PIENT CONSTITUCTION ON THE PROVIDE THE OWNER AND THEIR CONSTITUTION. DURING WORKING HOURS, AND CONTRACTOR PIENTRE AGRESS TO HOU HARDNESS. INDERREVIEW DEFEND THE CONNEL FOR AND THEIR CONSTITUTION. DURING WORKING HOURS, AND CONTRACTOR PIENTRE AGRESS TO HOU HARDNESS. INDERREVIEW DEFEND THE CONNEL FORMER AND THEIR CONSTITUTION. DURING WORKING HOURS, AND CONTRACTOR PIENTRE AGRESS TO HOU HARDNESS. INDERREVIEW DEFEND THE CONNEL FORMER AND THE CONSTITUTION. DURING WORKING HOURS AND CONTRACTOR PIENTRE AGRESS TO HOU HARDNESS. INDERREVIEW DEFEND THE CONNEL FORMER AND THE CONSTITUTION. DURING WORKING HOURS AND CONTRACTOR PIENTRE AGRESS TO HOU HARDNESS. INDERREVIEW THE HE OWNER THE NOTION ON THESE PLANS. THE CONTRACTOR BILL CONTRACTOR SHALL DAMATAIN ACCESS TO FOLLITES DURING CONSTITUTION. DURING TO MARCHARCENS SHALL BE NEARTHE ADD THE CONTRACTOR BILL SAD THEORY THE HOURS TO SHALL BE NEARTHE ADD REPLACED IN A DAPROVED PHORT DO MORTAUTOR SHALL BE NEARTHE ADD REVEALED AND APPROVED PHORT DO MORTAUTOR SHALL BE NEARTHE ADD REPLACED IN AND A DAS DIRECTED BY THE CONTRACT ON THE REVEALED AND REVEALED AND REVEALED AND REVEALED AND REVEALED THE REVEALED AND REVEALED AND REVEALED AND REVEALED AND REVEALED THE REVEALED AND REVEALED AN	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. <b>1</b> . 2. 3. 4. 5. 6.	AT A MINIMUM, THE CONTRACTOR SHALL BMPLOY THE FOLLOWING BEST MANACE IN THE CURRENT CALIFORMA STORMWATER BMP HANDBOOK FOR CONSTRUCT IN THE CURRENT CALIFORMA STORMWATER BMP HANDBOOK FOR CONSTRUCT EC-1 SCHEDULING EC-2 PRESERVATION OF EXISTING VEGETATION EC-2 PRESERVATION OF EXISTING VEGETATION EC-4 PROPORE SE 5 BER ROLLS SE 5 BER ROLLS SE 5 DEC MINIMUM TO PROVIDE THE CONSTRUCTION IN SECOND EXISTING VEGETATION IN SECOND EXISTING VEGETATION IN VEHICLE ON STICLE OF VEHICLE OF SECOND IN VEHICLE & BCUIRMENT AND STORAGE IN SECOND EXISTING VEGETATION TO MINIMIZE EROSION AND PRE SENSITIVE AREAS. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL IC EROSION DURING RUN EVENTS. IN MINIZE DISTURBANCE OF EXISTING VEGETATION TO THAT NECESSARY TO CO THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTALE FOR COMMU- OL AND OTHER HAZARDOUG MATERIALS. THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTALE FOR COMMU- COATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTON OF WASTES THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTALE FOR COMMU- COATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTON OF WASTES THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTALE FOR COMMU- COATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTON OF WASTES THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTALE FOR COMMU- COATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTON OF WASTES THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTALE FOR COMMON CONTRACTOR SHALL PROVIDE SAMILARY FACILITES OF SUFFICIENT JUNKI CONTRACTOR RE
Cor No. Issu Author	nformed Drawings GT GT 07/18/2024 Je Checked Approved Date D. AGUAS Drafting Check S. PEARL Project Manager G. TOMASINO		CONFORMED DRAWINGS

Plotted By: Steven Toft

		ABBR	REVIATIONS			LEG
BEST MANAGEMENT PRACTICES (BMPS) AS DESCRIBED		ACP	ASBESTOS CEMENT PIPE	JB	JUNCTION BOX	EXIST
ONSTRUCTION (WWW.CASQA.ORG):		AB AC	AGGREGATE BASE ASPHALT	LF	LINEAR FEET	
		APN AWWA	ASSESSORS PARCEL NUMBER AMERICAN WATER WORKS ASSOCIATION	MAX	MAXIMUM	5
		AVVVA	AMERICAN WATER WORKS ASSOCIATION	MAX	MANHOLE	•• <sup>4</sup>
		BFP	BACKFLOW PREVENTER	MIN	MINIMUM NORTH	Ŷ
		BFPCV BLDG	BACKFLOW PREVENTION CHECK VALVE BUILDING	N (N)	NEW	
		BMP C	BEST MANAGEMENT PRACTICE	NG OD	NATURAL GROUND	
		CB CDF	CATCH BASIN CONTROLLED DENSITY FILL	OH	OVERHEAD	150
		CI	CAST IRON CLEARANCE	PE PGE	PLAIN END PACIFIC GAS AND ELECTRIC	×46
		CLR CMP	CORREGATED METAL PIPE	PL	PLASTIC, PROPERTY LINE	
		CO	CLEANOUT	POC PSI	POINT OF CONNECTION POUNDS PER SQUARE INCH	<u>/</u>
		COM, COMM CONC	COMMUNICATION CONCRETE	PVC	POUNDS PER SQUARE INCH POLYVINYL CHLORIDE PIPE	——Е—
		COND	CONDUIT CORNER	RC	RELATIVE COMPACTION	<u> </u>
ON AND PREVENT THE TRANSPORT OF SEDIMENT TO		COR CP	CORNER CONTROL POINT	RCP	REINFORCED CONCRETE PIPE	
				RE		JT -
SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE		DI DIA	DRAIN INLET DIAMETER	RWB RWT	RETAINING WALL BOTTOM RETAINING WALL TOP	OHE
		DIP	DUCTILE IRON PIPE	RWD	REDWOOD	-
ARY TO COMPLETE THE WORK.		DN DR	DOCUMENT NUMBER DRAIN	S	SOUTH	I
		DWG	DRAWING	SCH	SCHEDULE	W
ING TRAINING & EQUIPMENT, TO CONTAIN SPILLS OF		DW	DRIVEWAY	SD SDMH	STORM DRAIN STORM DRAIN MANHOLE	
		E	EAST	SL	STREET LIGHT	0
AN OFF-SITE FACILITY WHEREIN THE WATER IS		(E) EB	EXISTING ELECTRICAL BOX	SLB SS	STREET LIGHT BOX SANITARY SEWER	$(\cdot)$
		EG	EXISTING GRADE	SSMH	SANITARY SEWER	~~~~
FOR COMMON SOLID WASTES AT CONVENIENT		ELEC	ELECTRIC	STA	STATION	Τ
DF WASTES.		ELEV EOR	ELEVATION ENGINEER OF RECORD	STD SST	STANDARD STAINLESS STEEL	٠
IENT NUMBER AND SIZE TO ACCOMMODATE		EP	EDGE OF PAVEMENT, END POINT	TD		
UCH FACILITIES TO PREVENT THEM FROM BEING		ER	EDGE OF ROAD	TB TEL, TELE	TELEPHONE BOX, TOP OF BANK TELEPHONE	WATE
		FCA	FLANGE COUPLING ADAPTER	TG	TOP OF GRATE	ELE
ING OPERATIONS SHALL BE EXERCISED IN THE EVENT CATION.		FG FH	FINISH GRADE FIRE HYDRANT	TOE TOF	TOE OF BANK TOP OF FOUNDATION	
		FL	FLOWLINE, FLANGE	TW	TOP OF WALL	$\bigcirc$
MATERIALS SHALL BE PROVIDED. ALL HAZARDOUS NMENT.		FND FM	FOUND FLOW METER	TYP	TYPICAL	
OFF-SITE WHENEVER PRACTICAL.		FNL FS	FENCE LINE FINISH SURFACE	UG UON	UNDERGROUND UNLESS OTHERWISE NOTED	. 1 <sup>- 1</sup> 4 . 1 - de
EET AWAY FROM DRAINAGE CHANNELS AND		G	GAS	V	VERTICAL	4
EET AWAT FROM DRAINAGE CHANNELS AND		GALV	GAS GALVANIZED	V VAR	VARIES	
PARED PRIOR TO THE ONSET OF ANY STORM.		GB GV	GRADE BREAK	W	WATED WEST	
PARED PRIOR TO THE ONSET OF ANY STORM.		GV	GAS VALVE	WB	WATER, WEST WATER BOX	DRAV
NT THE END OF EACH WORKING DAY, AS NECESSARY ON INSTRUCTION ENTRANCE MAY BE REQUIRED TO	R	H		WM		
S.		HDPE HMA	HIGH DENSITY POLYETHYLENE HOT MIX ASPHALT	WV	WATER VALVE	
AINED IN ACCORDANCE TO THEIR RESPECTIVE BMP		סו		<u>NOTE</u> : SOME A	BBREVIATIONS MAY BE USED IN COMBINATION	
		ID INV, IE	INSIDE DIAMETER INVERT ELEVATION			DES
G CONSTRUCTION DUE TO UNANTICIPATED FIELD		IT (ITEM NO)	INFORMATION TECHNOLOGY TITLE REPORT ITEM NUMBER			
SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION						
EFICIENCIES INDICATED BY THE OWNER'S						DE
HALL BE PERMANENTLY STABILIZED WITH HYDROSEED SHALL BE REMOVED AS DIRECTED.						
SHED GRADES. CONTRACTOR IS RESPONSIBLE FOR	10.		LS SHALL BE PLACED IN HORIZONTAL LIFTS NO I	MORE THAN 8 INC	HES THICK MOISTURE	0)////
CONSTRUCTION.		CONDITIONED AND COM	MPACTED PER SPECIFICATIONS.			SYME
NG WILL BE REVIEWED BY OWNER FOR	11.		ERIALS SHALL CONSIST OF AN APPROVED AGGR		·	
		,	ID/OR RUBBLE, A MAXIMUM PARTICLE SIZE OF 4 I IAN 45. EXCEPT FOR CLAY SOILS, NATIVE SOILS I	· ·		
OPE UNLESS OTHERWISE INDICATED. MAINTAIN		SPECIFICATIONS.				
	12.	FOUNDATION SUBGRAD	DE PREPARATION WILL EXTEND A MINIMUM OF 5	FEET BEYOND THE	E PLANNED FOUNDATIONS IN	
STRUCTION. ADEQUATE SHORING BRACING, TIES,		ALL DIRECTIONS.				
NTEGRITY DURING ALL PHASES OF CONSTRUCTION.	13.	GEOTECHNICAL ENGIN	EER OR REPRESENTATIVE SHALL INSPECT THE 1	TANK FOUNDATION	EXCAVATIONS PRIOR TO	X-301
RBED BY CONSTRUCTION OR EARTHWORK RIGINAL EXISTING CONDITIONS.		INSTALLATION OF NEW	IMPROVEMENTS. PROVIDE MINIMUM 3 WORKING	DAY NOTICE FOR	INSPECTIONS.	X-301
	14.	CONTRACTOR TO PRO	/IDE A EROSION AND SEDIMENT CONTROL PLAN	APPROVED BY OV	NER. SEE SPECIFICATIONS.	
IVE STORM CONVEYANCES UNLESS OTHERWISE I WATER DRAINAGE AND DEWATERING OF WORK	15	ROOT BALLS LOOSE ST	DIL OR ROCKS EXPOSED AT SUBGRADE SHALL B		(POSE FIRM NATURAL SOILS OR	
	10.	BEDROCK. 5. THE OWN	ER OR THEIR REPRESENTATIVE SHALL INSPECT			
R SEQUENCING CONSTRUCTION IN A MANNER TO		THE INSTALLATION OF	NEW IMPROVEMENTS.			
ONS.	16.		ELOW THE BOTTOM OF THE PROPOSED FOUNDA	TIONS SHALL BE F	REPLACED WITH ENGINEERED	
TIC AND PROVIDE RESTRAINTS TO HOLD PLASTIC		FILL.				
ION CONTROL PLAN. PLACE SILT FENCE						C-501
						0-501

D GRADED AREAS. CONTRACTOR TO SEED ALL

"-" INDICA "VAR" IND

Date

7/18/2024

Bar is one inch on original size sheet 0 1"



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# GEND

TING		PROPOSED	
	(E) SURVEY CONTROL POINT		LIMITS OF CONSTRUCTION AND STAGING
A-21-001	BORING LOCATION	///////	
	PROPERTY LINE		(E) UTILITY
	EASEMENT LINE	——————————————————————————————————————	(N) UNDERGROUND ELECTRIC LINE
	CENTERLINE	—w——ð—	(N) WATER LINE & VALVE
0	(E) CONTOUR LINE & ELEVATION	DR	(N) UNDERGROUND
465.12	(E) SPOT ELEVATION	* * * *	
	(E) DRIVEWAY	$\psi$ $\psi$ $\psi$	CLEAR AND GRUB AREA
	(E) UNDERGROUND ELECTRIC LINE		(N) GRAVEL SURFACE
<u> </u>	(E) FENCE LINE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(N) HYDROSEED
Τ	(E) JOINT TRENCH	SF	TEMPORARY SILT FENCE
HE	(E) OVERHEAD POWER LINE	——FR_—	TEMPORARY FIBER ROLL
	(E) TELEPHONE LINE	465	(N) CONTOUR LINE & ELEVATION
— <u>5</u> —	(E) WATER LINE & VALVE	WM	(N) WATER METER
<u>)                                    </u>	(E) TRAFFIC SIGN	0—0	(N) DOUBLE CHECK BACKFLOW PREVENTER
)	(E) TREE		(N) FLOW LINE OF EARTHEN DRAINAGE DITCH
Г	(E) TRANSFORMER	<b></b>	FLOW ARROW
	(E) BOLLARD		(N) DROP INLET
TER	(E) WATER VAULT		
EC	(E) ELECTRICAL VAULT		TRAFFIC FLOW ARROW
0	(E) UTILITY POLE		
	(E) BUILDING		
ta (1) t- ↔ 	(E) CONCRETE		

# WING DESIGNATION

C-501 SCALE SHEET NU SECTION TAIL IDENTIFICATION DETAIL C-501 SCALE SHEET N DETAIL SHEET N DETAIL SHEET N DETAIL SHEET N DETAIL	JMBER ON WHICH WAS TAKEN NUMBER NUMBER ON WHICH WAS REFERENCED	Size ANSI D
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600 700	SCHEDULES AND DIAGRAMS           CODE COMPLIANCE FORMS	
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100	PLANS FLEVATIONS	
000	GENERAL	
NUMBER	SHEET TYPE	
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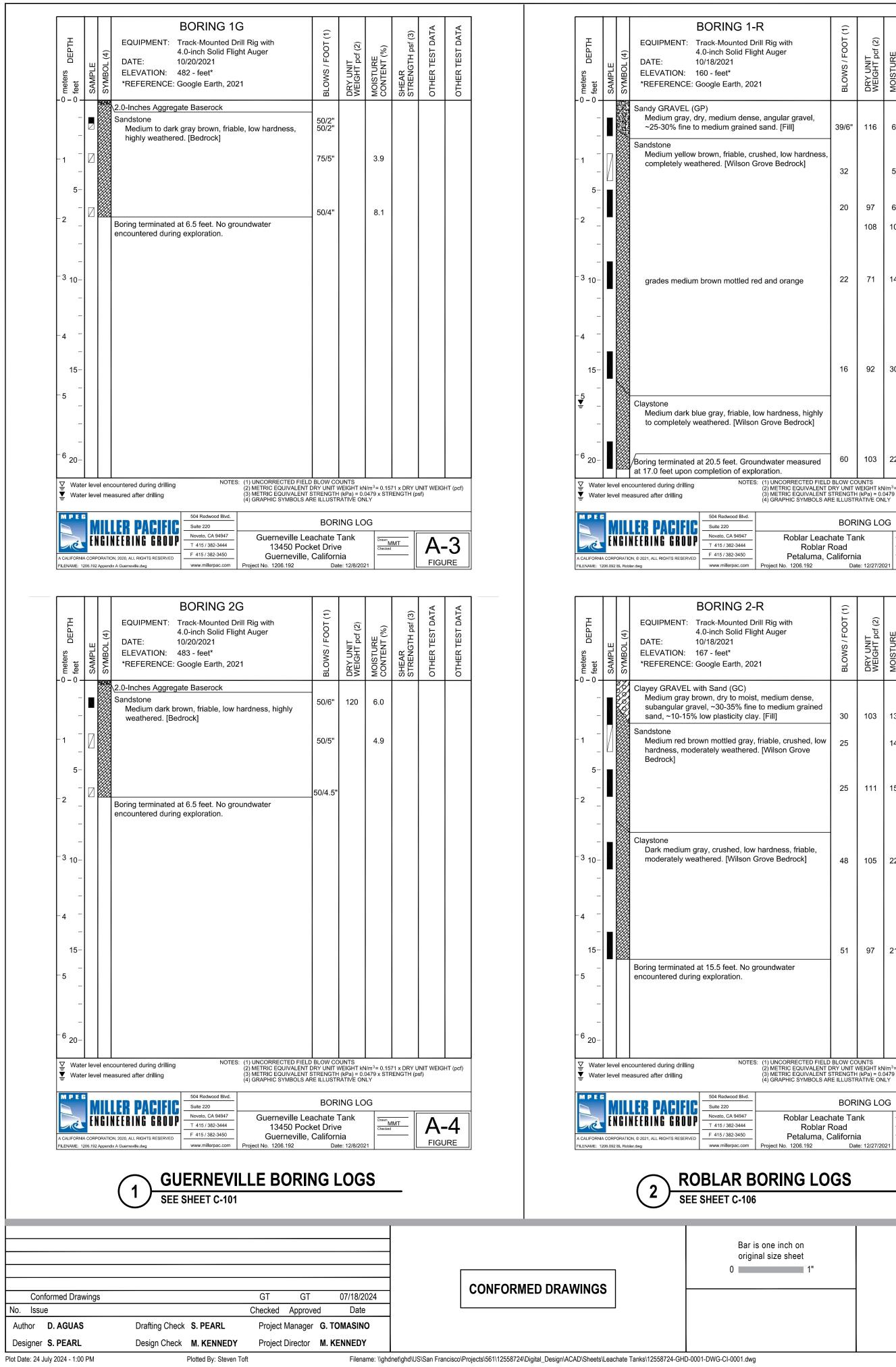
Scale

AS SHOWN

Sheet No.

02 of 48

G-002



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/lounted D	rill Rig with	BLOWS / FOOT (1)	(2)	(%	SHEAR STRENGTH psf (3)	OTHER TEST DATA	OTHER TEST DATA
n Solid Flig 021	ght Auger	S / FO	NIT IT pcf	URE ENT (9	k IGTH	R TES	R TES
et* Earth, 202	21	LOWS	DRY UNIT WEIGHT pcf (2)	MOISTURE CONTENT (%)	HEAR TREN	THER	THER
		В		ΣU	ର ର	0	0
	e, angular gravel, I sand. [Fill]	39/6"	116	6.4			
		00/0	110	0.4			
	ushed, low hardness, Grove Bedrock]						
		32		5.7			
		20	97	6.2	UC		
		20	108	10.5	320 TXUU		
			100	10.0	3250		
mottled re	ed and orange	22	71	14.5			
					ΤΧυυ		
		16	92	30.8	1500		
	ow hardness, highly n Grove Bedrock]						
_							
	undwater measured	60	103	22.3	UC 1840		
ion of exp	S: (1) UNCORRECTED FIELD	BLOW CC	UNTS				
	(2) METRIC EQUIVALENT E (3) METRIC EQUIVALENT S (4) GRAPHIC SYMBOLS AR	STRENGTH	(kPa) = 0.0	0479 x STF	71 x DRY U RENGTH (ps	NIT WEIG sf)	HI (pcf)
edwood Blvd.		BOR	ING LO	G			
o, CA 94947 5 / 382-3444	Roblar Leach Roblar F		nk	Drawn M Checked		Δ.	3
5 / 382-3450 millerpac.com	Petaluma, C Project No. 1206.192	Californi	<b>a</b> :e: 12/27/20		— [	FIGL	JRE
<u> </u>							
ING 2-	R	-			â	TA	TA
/lounted D	rill Rig with	.) тос	f (2)	(%	psf (3	ST DA	ST DA
n Solid Flig 021	ght Auger	S / FC	INIT HT pc	FURE ENT (	R NGTH	R TES	R TES
et* Earth, 202	21	BLOWS / FOOT (1)	DRY UNIT WEIGHT pcf (2)	MOISTURE CONTENT (%)	SHEAR STRENGTH psf (3)	OTHER TEST DATA	OTHER TEST DATA
nd (GC)				20	0,0,		
ry to mois	t, medium dense, e to medium grained						
asticity cla		30	103	13.7	UC 1730		
	friable, crushed, low	25		14.2			
weathered	d. [Wilson Grove						
		25	111	15 5	UC		
		25	111	15.5	320		
- 1							
	hardness, friable, Grove Bedrock]	48	105	22.7	UC 2210		
£		51	97	21.7	UC 540		
feet. No g ration.	roundwater						
	N. (1) INCORPORTED	PLOY					
NOTES	(2) METRIC EQUIVALENT D	DRY UNIT V	VEIGHT kN	0479 x STF	71 x DRY U RENGTH (ps	NIT WEIG sf)	HT (pcf)
	(3) METRIC EQUIVALENT S (4) GRAPHIC SYMBOLS AR	E II I I I CTC	ATIVE ON	IY			
edwood Blvd.	(3) METRIC EQUIVALENT S (4) GRAPHIC SYMBOLS AR						
220 20, CA 94947	(4) GRAPHIC SYMBOLS AR	BOR	ING LO	G	Ir		
220		BOR nate Tai Road	ING LO nk			A-	-4
NOTES	(2) METRIC EQUIVALENT D	DRY UNIT V	VEIGHT kN	0479 x STF	71 x DRY U ENGTH (ps	NIT WEIG	HT (p



DEPTH		4)	EQUIPMENT: Track-Mounted D 4.0-inch Solid Flig	rill Rig with	=00T (1)	ocf (2)	E - (%)	H psf (3)	OTHER TEST DATA	OTHER TEST DATA
o feet Di	SAMPLE	SYMBOL (4)	DATE: 10/21/2021 ELEVATION: 249 - feet* *REFERENCE: Google Earth, 202	21	BLOWS / FOOT (1)	DRY UNIT WEIGHT pcf (2)	MOISTURE CONTENT (%)	SHEAR STRENGTH psf (3)	OTHER TE	OTHER TE
-			Clayey SAND (SC) Medium to dark brown and gray, dense, fine to coarse grained sa ~35-40% medium plasticity clay.	nd, ~30% gravel,	40	88	16.2	UC 770	P200 36.2%	
-1 -			CLAY (CL) Dark brown, moist, stiff, medium clay, ~20% fine to medium grain		22					
5- - -2					10					
-			Tuff Blue gray brown, friable, low har weathered. [Bedrock]	dness, highly	34	57	69.3	UC 2100 TXUU 2500		
<sup>-3</sup> 10- -	[				19		59.2			
- 4 - _ 15-										
- 5 -	[				29		61.0			
			Boring terminated at 17.5 feet. No gencountered during exploration.	roundwater						
0 20-										
Ξ			countered during drilling NOTES asured after drilling	<ul> <li>(1) UNCORRECTED FIELD</li> <li>(2) METRIC EQUIVALENT E</li> <li>(3) METRIC EQUIVALENT S</li> <li>(4) GRAPHIC SYMBOLS AR</li> </ul>	ORY UNIT W	VEIGHT kN (kPa) = 0.0	)479 x STR	71 x DRY L ENGTH (p	INIT WEIGH sf)	HT (pcf)
			504 Redwood Blvd. Suite 220		BOR	ING LO	G			
			LEM PAUIFIG Novato, CA 94947	Sonoma Lead				Ir	~	
-ie		U	T 415 / 382-3444	4376 Stage G	ulch Ro	bad	Drawn M Checked	<u>MT</u>	A-	·3
A CALIFORNIA FILENAME: 12			DN, © 2021, ALL RIGHTS RESERVED oma.dwg F 415 / 382-3450 www.millerpac.com	Sonoma, C Project No. 1206.192		<b>a</b> te: 12/22/20	.21		FIGU	IRE

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FILENAME: 1206.092 BL Sonoma.dwg



Date: 12/22/20

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Client COUNT

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	E TANK REPLACEN	ИЕМТ	
LLACHAT			
roject No. 2558724	Date <b>7/18/2024</b>	Scale AS SHOWN	Draw <b>C-</b>

### Size ANSI D

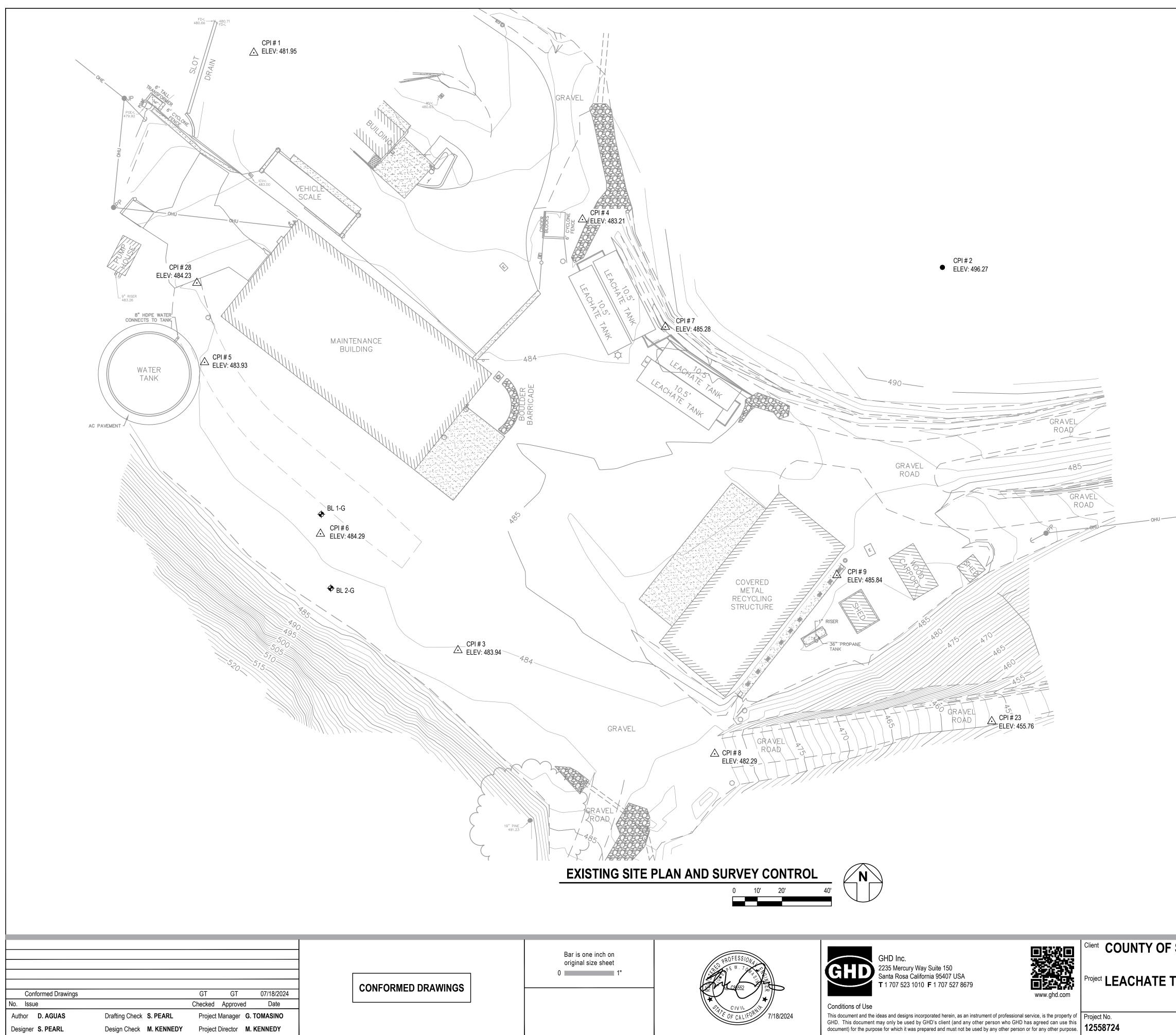
**C-**0

SEE SHEET C-111

### BORING 2 (CONTINUED) DRY UNIT WEIGHT pcf MOISTURE CONTENT (% SHEAR STRENGTH I Medium brown, friable, crushed, low hardness, highly 61 58 66.6 890 weathered. [Bedrock] 63.0 41 Boring terminated at 23.0 feet. No groundwater encountered during exploration. - 10 35-- 11 - 12 40-NOTES: (1) UNCORRECTED FIELD BLOW COUNTS (2) METRIC EQUIVALENT DRY UNIT WEIGHT kN/m<sup>3</sup>= 0.1571 x DRY UNIT WEIGHT (pcf) (3) METRIC EQUIVALENT STRENGTH (kPa) = 0.0479 x STRENGTH (psf) (4) GRAPHIC SYMBOLS ARE ILLUSTRATIVE ONLY ₩ Water level encountered during drilling Water level measured after drilling 504 Redwood Blvd **MILLER PACIFIC** BORING LOG Suite 220 Novato, CA 94947 ENGINEERING GROUP Sonoma Leachate Tank A-5 Checked T 415 / 382-3444 4376 Stage Gulch Road F 415/382-3450 Sonoma, California LIFORNIA CORPORATION, © 2021, ALL RIGHTS RESERVE FIGURE FILENAME: 1206.092 BL Sonoma.dwg www.millerpac.com Project No. 1206.192 Date: 12/22/20

								HT (pcf)
	504 Redwood Blvd.			ING LO				
ENGINEERING GROUP	Novato, CA 94947           T 415 / 382-3444           F 415 / 382-3450	Sonoma Leac 4376 Stage G Sonoma, C	ulch Ro	bad	Drawn M Checked	IMT	A-	4
A CALIFORNIA CORPORATION, © 2021, ALL RIGHTS RESERVED FILENAME: 1206.092 BL Sonoma.dwg	www.millerpac.com	Project No. 1206.192		d te: 12/22/20	21		FIGU	IRE

h meters feet b	SAMPLE	SYMBOL (4)	BORING 2-S         EQUIPMENT:       Track-Mounted Drill Rig with 4.0-inch Solid Flight Auger         DATE:       10/21/2021         ELEVATION:       250 - feet*         *REFERENCE:       Google Earth, 2021		BLOWS / FOOT (1)	DRY UNIT WEIGHT pcf (2)	MOISTURE CONTENT (%)	SHEAR STRENGTH psf (3)	OTHER TEST DATA	OTHER TEST DATA
- U - U - - -			CLAY with Sand (CL) Medium dark brown, moist, very stiff, medium plasticity clay, ~20% fine to coarse grained sand [Colluvium]		25	78	19.2			
-1 - - 5-			Clayey SAND with Gravel (SC) Light to medium gray brown, dry, medium dense to coarse grained sand, ~45-50% medium plastic clay, ~20% gravel. [Colluvium]		25	65	24.5		P200 47.1%	
-2_	4		CLAY with Sand (CL) Black, moist, medium stiff, medium plasticity clay ~20% fine to coarse grained sand. [Colluvium]	Ι,	11		34.6			
- - - <sup>3</sup> 10- -			Tuff Medium brown, friable, crushed, low hardness, h weathered. [Bedrock]	ighly	44	64	57.3	UC 1670		
- - 4 - -										
15- - -5 -					26	62	62.3	UC 1450		
- - 6 20-										
=			countered during drilling NOTES: (1) UNCORRECTEI (2) METRIC EQUIV, asured after drilling (3) METRIC EQUIV, (4) GRAPHIC SYME	ALENT D	RY UNIT W	VEIGHT kN (kPa) = 0.0	0479 x STR			HT (pcf)
MPEG			504 Redwood Blvd.		BOR	ING LC	)G			
			LER PACIFIC Suite 220 Novato, CA 94947		bote Ta			Ir		



Plot Date:	24	July	2024	-	1:01	PN

Plotted By: Steven Toft

-- PP

### SURVEY INFORMATION

### BASIS OF BEARING:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 2, NAD 83, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING SYSTEMS (CGPS) STATION P196 AND STATION P195; BEING A GRID BEARING OF NORTH 24°23'10" WEST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

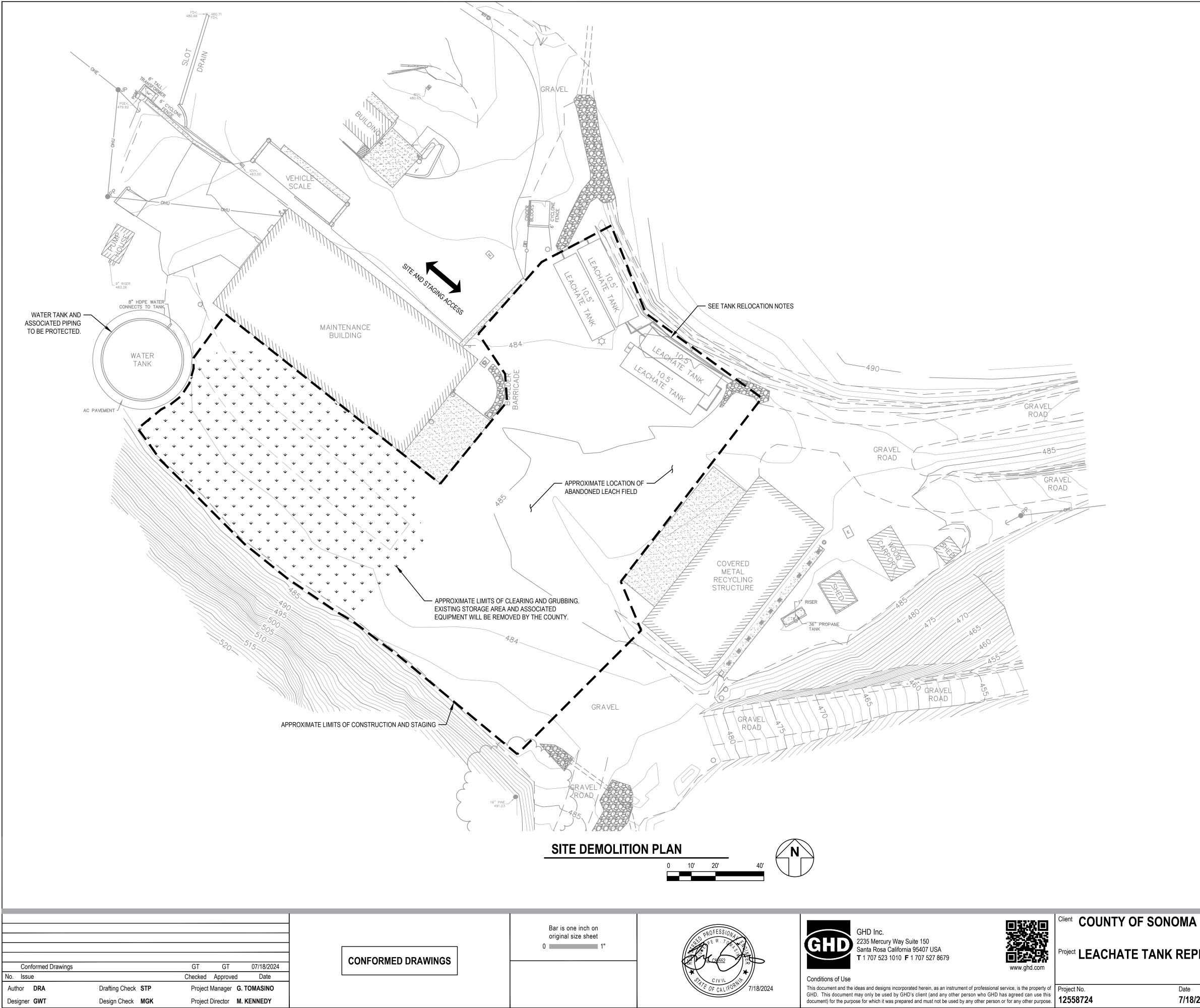
### **BENCHMARK:**

CINQUINI & PASSARINO CONTROL POINT NO. 2, BEING A FOUND CONTROL 3/4" IRON PIPE AS SHOWN HEREON.

ELEVATION = 496.27' (NAVD 88) THE ORTHOMETRIC ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND WERE DETERMINED BY STATIC GPS TIES TO CGPS STATION P195 WITH A PUBLISHED ELLIPSOIDAL HEIGHT OF 483.292', IN ADDITION TO APPLYING THE NGS GEOID HEIGHT MODEL "GEOID2012B".

SUF	SURVEY CONTROL TABLE								
POINT #	NORTHING	EASTING	ELEV	DESCRIPTION					
1	1942567.351	6288796.653	481.95	SET CPI CTRL CUT 'X'					
2	1942480.493	6289075.390	496.27	FND CTRL 3/4" IRON PIPE					
3	1942325.503	6288879.290	483.94	SET CPI CTRL SPIKE 100d					
4	1942499.848	6288929.688	483.21	SET CPI CTRL SPIKE 100d					
5	1942442.051	6288776.731	483.93	SET CPI CTRL SPIKE d					
6	1942372.627	6288823.626	484.29	SET CPI CTRL SPIKE d					
7	1942456.378	6288963.243	485.28	SET CPI CTRL SPIKE 100d					
8	1942283.580	6288983.205	482.29	SET CPI CTRL SPIKE 100d					
9	1942355.874	6289032.648	485.84	SET CPI CTRL CUT 'X'					
23	1942296.735	6289095.352	455.76	SET CPI CTRL SPIKE 60d					
28	1942474.180	6288773.588	484.23	SET CPI CTRL MAG NAIL					
BL 1-G	1942380.559	6288823.943	484.48	BORING LOCATION					
BL 2-G	1942350.623	6288827.812	483.65	BORING LOCATION					

SONOMA	Title EXISTING SITE PLAN AND SURVEY CONTROL – GUERNEVILLE SITE	Size ANSI D
Date         Scale           7/18/2024         AS SHOWN	Drawing No. <b>C-101</b>	Sheet No. 04 of 48



Plot Date: 24 July 2024 - 1:02 PM

Filename: \\ghdnet\ghd\US\San Francisco\Projects\561\12558724\Digital\_Design\ACAD\Sheets\Leachate Tanks\12558724-GHD-0001-DWG-CI-0102.dwg

C	SENERAL NOTES
1.	(E) UTILITIES NOT DESIGNATED FOR REMOVAL MUST BE PROTECTED AND CONTINUOUS SERVICE MAINTAINED DURING THE CONTRACT. ANY TEMPORARY SHUT-DOWNS MUST BE COORDINATED WITH OWNER.
2.	REMOVAL AND RELOCATION OF THE (E) LEACHATE TANKS SHALL BE PHASED TO MAINTAIN UNINTERUPPTED STORAGE OF LEACHATE DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR (E) LEACHATE TANK REMOVAL AND RELOCATION AS DIRECTED BY OWNER.
3.	CONTRACTOR TO INSTALL CONCRETE WASHOUT PER DETAIL 4 SHEET C-501.
4.	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 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND SHALL POTHOLE FOR EXACT LOCATIONS.
5.	CONTRACTOR SHALL USE CAUTION TO PREVENT DAMAGE TO TANKS THAT MUST REMAIN IN SERVICE AND AVOID INTERFERENCE WITH TANK AND LEACHATE SYSTEM OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE AND INTERFERENCE TO TANKS, AND LEACHATE SYSTEM OPERATIONS.
T	ANK RELOCATION NOTES
1.	EXISTING LEACHATE SYSTEM TO BE UNINTERRUPTED DURING CONSTRUCTION.
2.	CONTRACTOR TO SALVAGE (E) MAG METER AT (E) LEACHATE TANKS FOR RE-USE.
3.	CONSTRUCTION OF NEW TANKS AND NEW FILL STATION TO BE INSTALLED PRIOR TO DRAINING EXISTING TANKS AND SALVAGING EXISTING FLOW METER FOR INSTALLATION AS SHOWN ON SHEET C-105.
4.	TANKS TO BE DRAINED BY OWNER BEFORE TIE IN WITH EXISTING LINE.
5.	EXISTING TANKS TO REMAIN ON SITE.

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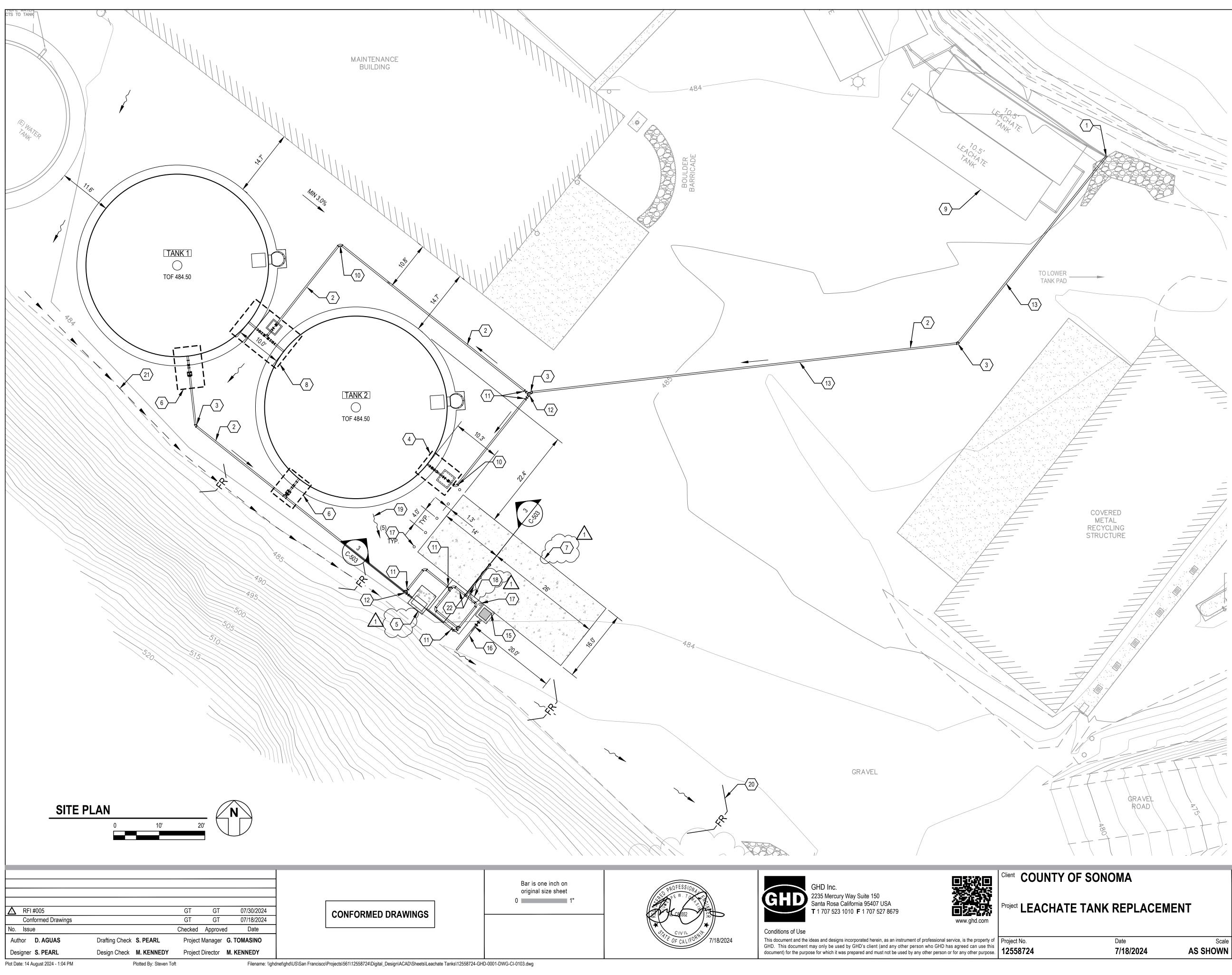
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Size ANSI D

Date 7/18/2024

Scale AS SHOWN

Plotted By: Steven Toft



### **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 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR IS

POTHOLE FOR EXACT LOCATIONS.

2. NOT ALL FITTINGS SHOWN. PROVIDE ALL FITTINGS NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.

RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND SHALL

# 

- 1. CONNECT TO EXISTING 4" HDPE FILL LINE PER SPECIFICATIONS, CONTRACTOR TO PROVIDE NECESSARY FITTINGS.
- 2. (N) 4" HDPE PIPE. MAINTAIN CONTINUOUS UPWARD SLOPE TOWARD TANKS.
- 3. (N) 4" 45° DI ELBOW.
- 4. (N) 4" TANK INLET, SEE DETAIL 1 SHEET C-502.
- 5. (N) CAL WEST RAIN CUSTOM PUMP, FLOW METER AND BACKFLOW PREVENTION ASSEMBLY OR APPROVED EQUAL, ANCHORED TO PAD PER DETAIL 2, SHEET S-004 PER MANUFACTURER REQUIREMENTS.  $\sim\sim\sim\sim\sim\sim\sim$
- <u>/1</u> SW CORNER N=1942330.759 E=6288845.385 FS=484.50 ℃ SE CORNER N=1942328.271 E=6288848.516 FS=484.50 NW CORNER N=1942334.674 E=6288848.495 FS=484.50 NE CORNER N=1942332.186 E=6288851.627F FS=484.50
- ······ 6. (N) 4" TANK OUTLET, SEE DETAIL 2 SHEET C-502.
- 7. (N) 16' X 40' CONTAINMENT PAD PER DETAIL 1 SHEET S-108.

	$\sim\sim\sim$	$\sim\sim\sim$	$\sim\sim\sim$	$\sim \sim \sim$
$\Lambda$ (	NE CORNER	N=1942329.593	E=6288888.856	FS=484.17 )
$\underline{-1}$	SE CORNER	N=1942317.065	E=6288888.856 E=6288878.904	FS=484.17
Ì	NW CORNER	N=1942354.474	E=6288857.537	FS=484.17 🔨
	SW CORNER	N=1942354.474 N=1942341.946	E=6288847.584	FS=484.17 )
	$\sum$	$\sim$	$\sim$	$\sim$

- 8. (N) TANK INTERTIE, SEE DETAIL 3 SHEET C-502.
- 9. RELOCATION OF THE EXISTING LEACHATE TANKS SHALL BE PHASED TO MAINTAIN UNINTERRUPTED STORAGE OF LEACHATE DURING CONSTRUCTION. SEE SHEET C-103 FOR TANK RELOCATION NOTES.
- 10. (N) 4" 90° DI ELBOW.
- 11. (N) 4" DI GATE VALVE IN RISER BOX, SEE DETAIL 2 SHEET C-503.
- 12. (N) 4"x4"x4" DI TEE.
- 13. (N) SCHEIB DRAINAGE ANTI SEEP COLLAR OR APPROVED EQUAL, INSTALLED EVERY 20 FT BETWEEN FITTINGS. INSTALL PER MANUFACTURER INSTRUCTIONS.
- 14. NOT USED.
- 15. (N) 24" X 24" X 36" JENSEN PRECAST JUNCTION BOX OR APPROVED EQUAL PER DETAIL 3, SHEET C-503.
- 16. (N) 6" PVC DRAIN PIPE, MIN 1% SLOPE.
- 17. (N) BOLLARD PER DETAIL 5, SHEET C-503.
- 18. (N) 8.5' X 8.5' SLAB PER DETAIL 2, S-004.

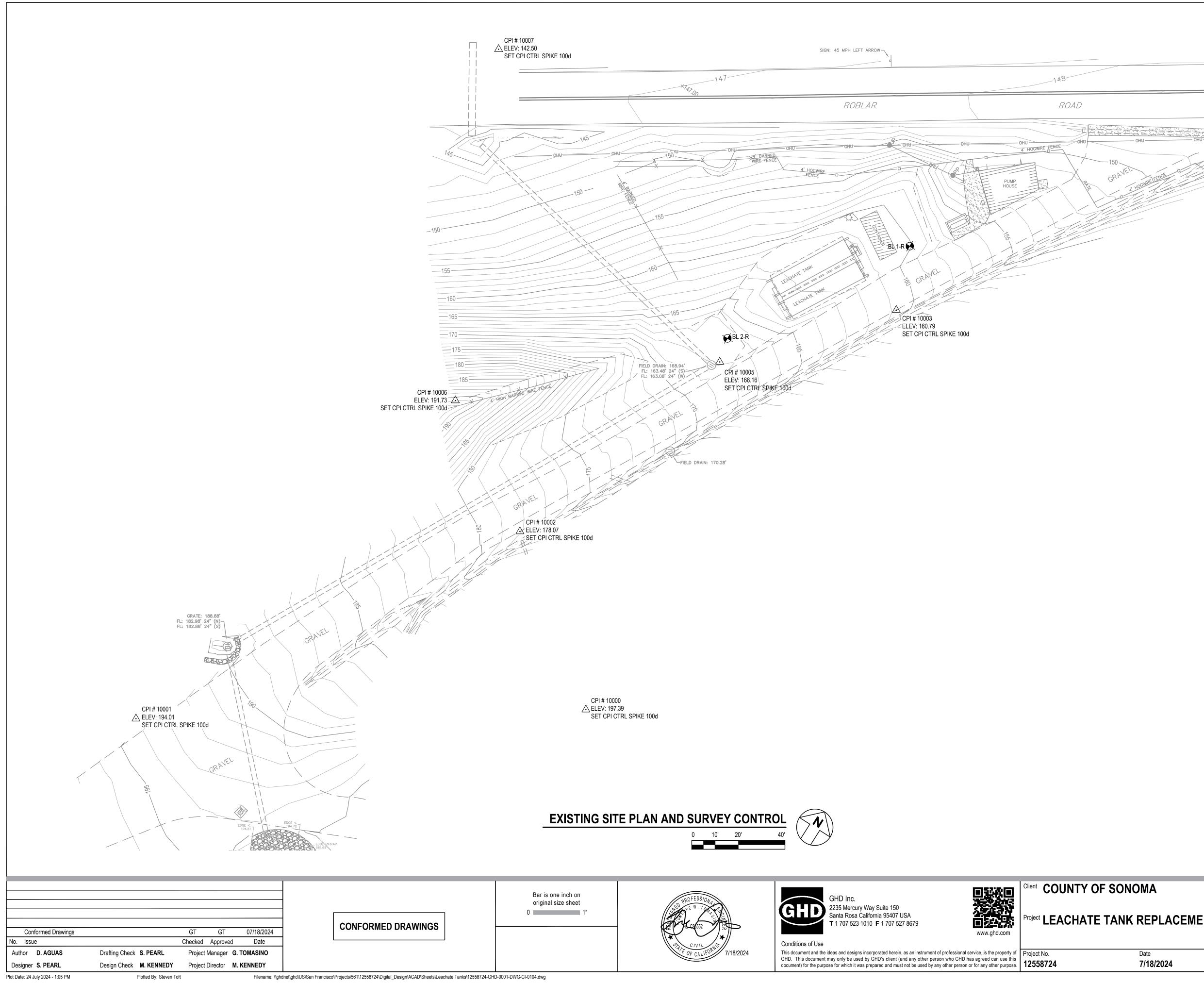
$\wedge \sim \sim$	$\sim \sim \sim \sim \sim \sim$	$\sim\sim\sim\sim$
$_{1}\mathbf{X}$ NW CORNER	N=1942335.873 E=6288855.229	FS=484.50 )
	N=1942335.873 E=6288855.229 N=1942330.586 E=6288861.884	FS=484.50 🔾
( SW CORNER	N=1942329.218 E=6288849.942	FS=484.50 )
SE CORNER	N=1942323.931 E=6288856.597	FS=484.50
$\sum$		und

- 19. GRADE AWAY FROM TANK FOOTINGS AND ADJACENT BUILDINGS TO MAINTAIN POSITIVE DRAINAGE.
- 20. INSTALL FIBER ROLLS ACROSS DRAINAGE SWALE.
- 21. ESTABLISH AND MAINTAIN POSITIVE DRAINAGE ALONG (E) TOE OF SLOPE.
- 22. (N) SS CAL WEST RAIN PRE-FABRICATED FILL STATION WITH MANUAL BYPASS. SEE DETAIL 3 SHEET C-503

# Title SITE PLAN -**GUERNEVILLE SITE**

# Size ANSI D

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### SURVEY INFORMATION

### **BENCHMARK:**

\_CPI # 10004

SET CPI CTRL MAG NAIL

🛆 ELEV: 148.41

CINQUINI & PASSARINO CONTROL POINT NO. 10000, BEING A SET CONTROL SPIKE AS SHOWN HEREON.

-149-

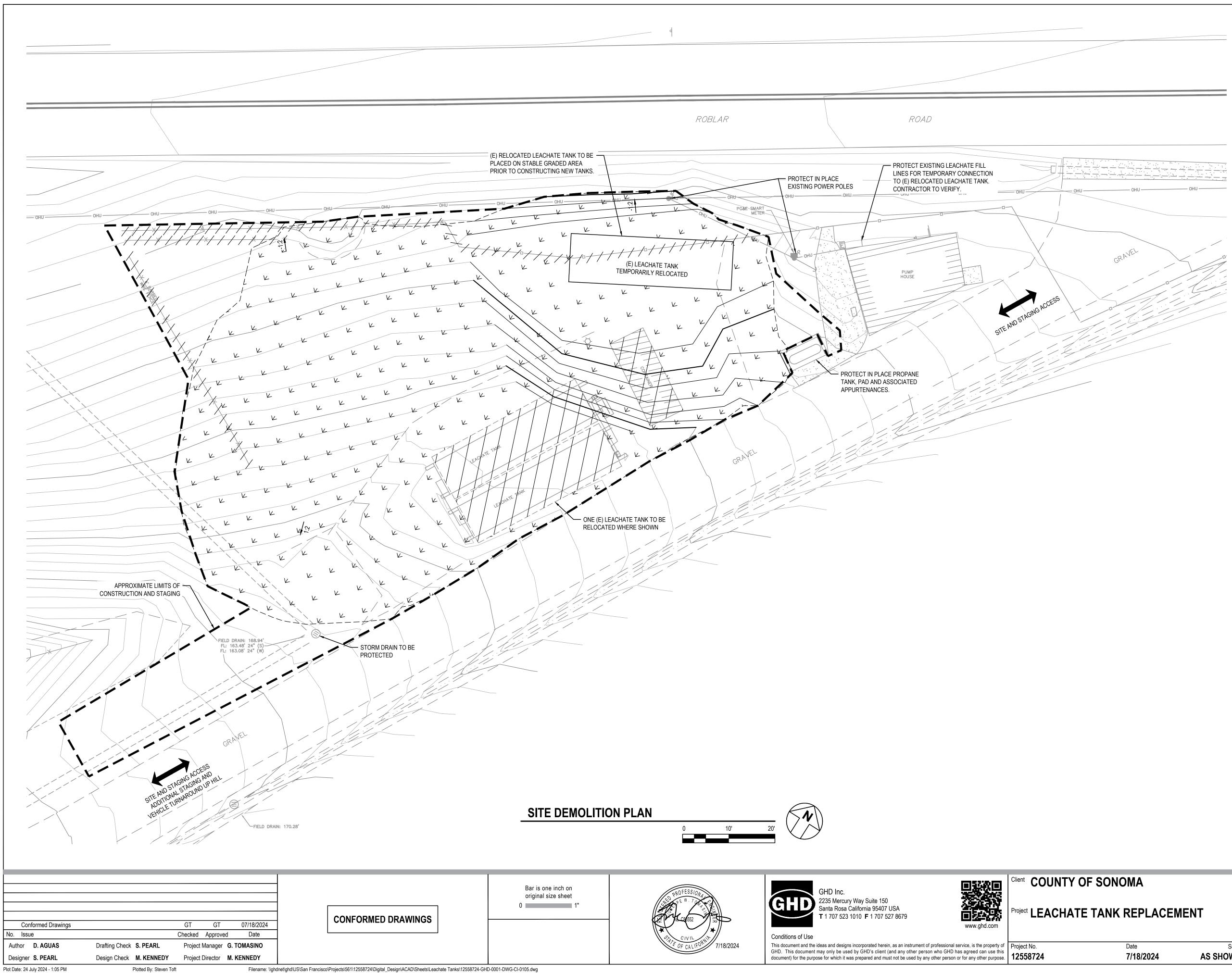
-149----

ELEVATION = 197.39' (NAVD 88) THE ORTHOMETRIC ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND WERE DETERMINED BY STATIC GPS TIES TO CGPS STATION P196 WITH A PUBLISHED ELLIPSOIDAL HEIGHT OF 298.618', IN ADDITION TO APPLYING THE NGS GEOID HEIGHT MODEL "GEOID2012B".

### SURVEY CONTROL TABLE

POINT #	NORTHING	EASTING	ELEV	DESCRIPTION
10000	1879825.168	6331351.917	197.39	SET CPI CTRL SPIKE 100d
10001	1879718.579	6331190.801	194.01	SET CPI CTRL SPIKE 100d
10002	1879874.634	6331287.069	178.07	SET CPI CTRL SPIKE 100d
10003	1880041.342	6331372.737	160.79	SET CPI CTRL SPIKE 100d
10004	1880186.938	6331452.174	148.41	SET CPI CTRL MAG NAIL
10005	1879981.996	6331320.599	168.17	SET CPI CTRL SPIKE 100d
10006	1879907.300	6331233.580	191.73	SET CPI CTRL SPIKE 100d
10007	1880044.575	6331168.598	142.501	SET CPI CTRL SPIKE 100d
BL 1-R	1880067.603	6331362.930	160.150	BORING LOCATION
BL 2-R	1879992.291	6331318.000	167.927	BORING LOCATION

		_
F SONOMA	Title EXISTING SITE PLAN AND SURVEY CONTROL - ROBLAR SITE	Size ANSI D
TANK REPLACEMENT	CONTROL - RODLAR SITE	
Date Scale	Drawing No.	Sheet No.
7/18/2024 AS SHOWN	C-104	07 of 48



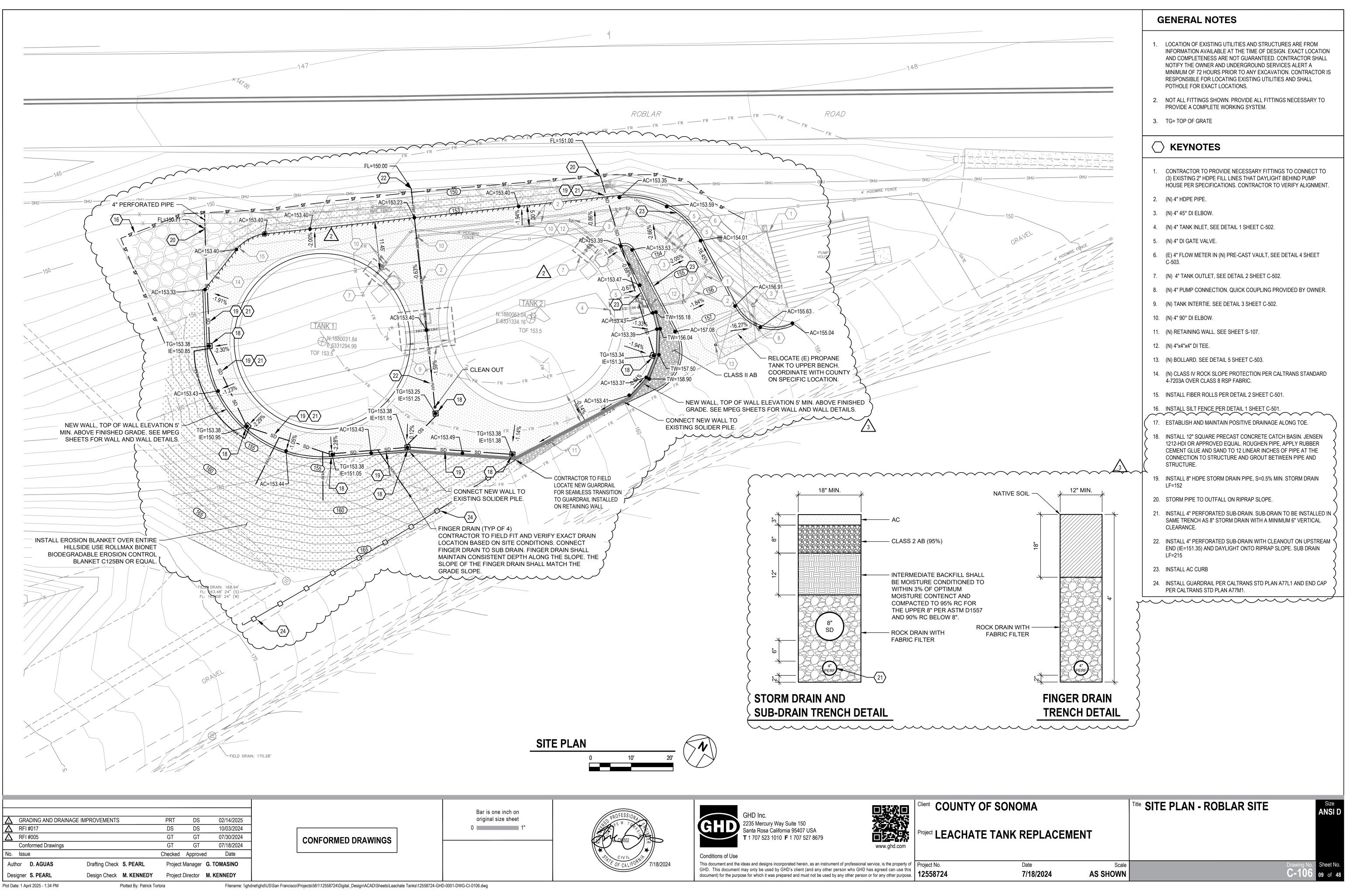
### **GENERAL NOTES**

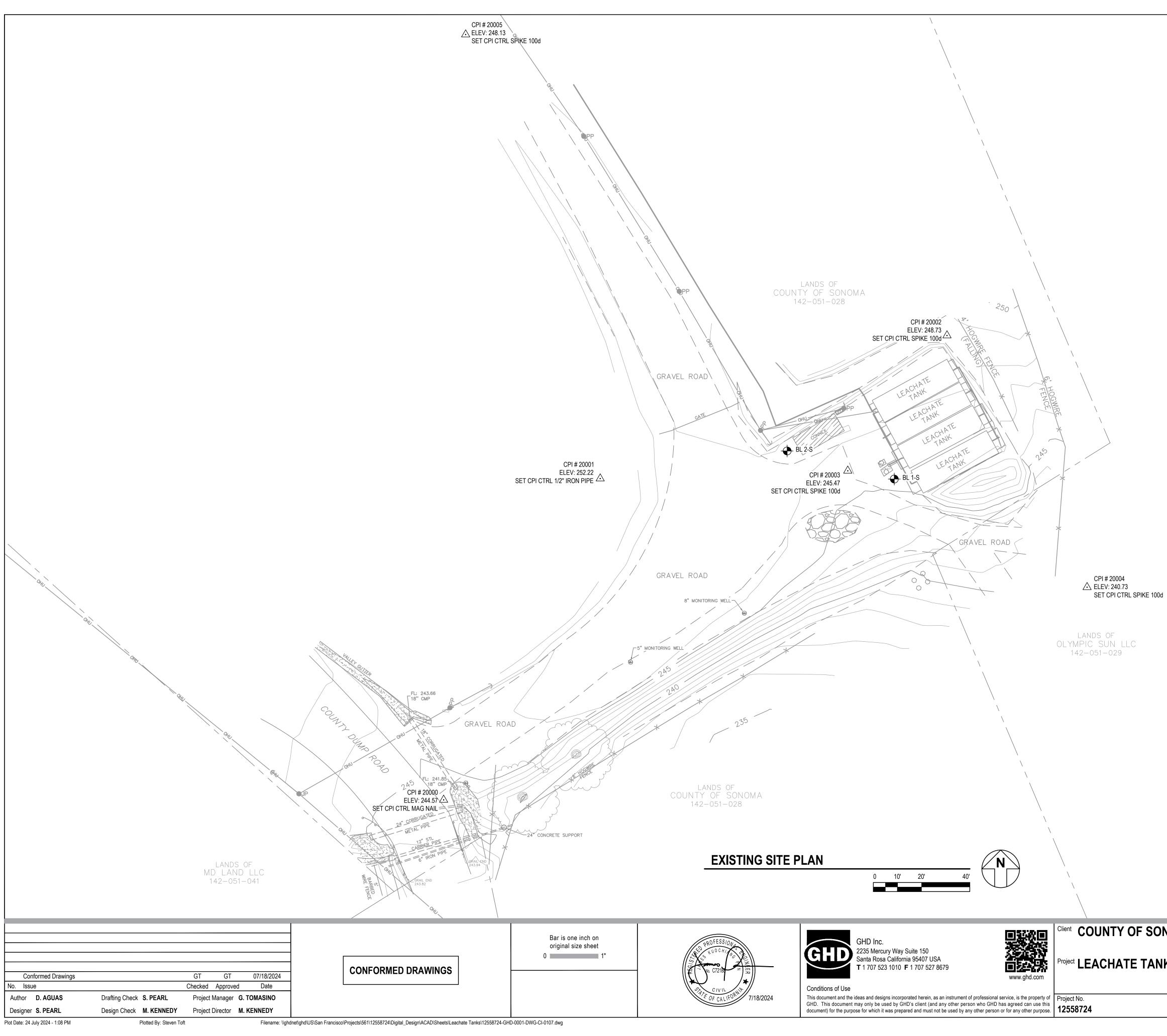
- (E) UTILITIES NOT DESIGNATED FOR REMOVAL MUST BE PROTECTED AND CONTINUOUS SERVICE MAINTAINED DURING THE CONTRACT. ANY TEMPORARY SHUT-DOWNS MUST BE COORDINATED WITH OWNER.
- REMOVAL AND RELOCATION OF THE (E) LEACHATE TANKS SHALL BE PHASED TO MAINTAIN UNINTERUPPTED STORAGE OF LEACHATE DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR (E) LEACHATE TANK REMOVAL AND RELOCATION AS DIRECTED BY OWNER.
- 3. CONTRACTOR TO INSTALL CONCRETE WASHOUT PER DETAIL 4 SHEET C-501.
- 4. 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 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND SHALL POTHOLE FOR EXACT LOCATIONS.
- CONTRACTOR SHALL USE CAUTION TO PREVENT DAMAGE TO TANKS THAT MUST REMAIN IN SERVICE AND AVOID INTERFERENCE WITH TANK AND LEACHATE SYSTEM OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE AND INTERFERENCE TO TANKS, AND LEACHATE SYSTEM OPERATIONS.
- 6. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC CONTROL AT ROBLAR ROAD AS NECESSARY.

### TANK RELOCATION NOTES

- (E) LEACHATE TANKS TO BE DRAINED BY OWNER PRIOR TO REMOVAL AND RELOCATION.
- 2. OWNER RESPONSIBLE FOR COORDINATION AND REMOVAL OF (E) STORAGE CONTAINER.
- 3. CONTRACTOR RESPONSIBLE FOR COORDINATION, REMOVAL AND RELOCATION OF EXISTING LEACHATE TANKS AS DIRECTED BY OWNER.
- 4. PREP AND GRADE AREA FOR TEMPORARY RELOCATION OF ONE (E) LEACHATE TANK AND CONNECT RELOCATED TANK TO (E) LEACHATE FILL LINES FROM PUMP HOUSE. CONTRACTOR TO VERIFY LOCATION OF (E) LEACHATE FILL LINES.
- 5. CONTRACTOR TO SALVAGE (E) MAG METER AT (E) LEACHATE TANKS FOR RE-USE.
- 6. CONNECT RELOCATED (E) LEACHATE TANK TO TEMPORARY POWER, BY OTHERS.
- 7. COMPLETE SITE GRADING AND CONSTRUCT RETAINING WALL, CONSTRUCT TANK 1 AND CONNECT TO (E) LEACHATE FILL LINES PER PLANS ON SHEET C-110.
- 8. OWNER TO PUMP AND HAUL LEACHATE FROM (E) LEACHATE TANK PRIOR TO RELOCATION. CONTRACTOR TO REMOVE RELOCATED TANK FROM SITE AFTER COMPLETION AND COMMISSIONING OF TANK 1 AS DIRECTED BY OWNER.

OF SONOMA E TANK REPLACEMENT			SITE DEMOLITIC ROBLAR SITE	ON PLAN -		Size ANSI D
	ate 1 <b>8/2024</b>	Scale AS SHOWN			Drawing No.	Sheet No. 08 of 48





### SURVEY INFORMATION

### BASIS OF BEARING:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 2, NAD 83, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING SYSTEMS (CGPS) STATION P200 AND STATION P196; BEING A GRID BEARING OF NORTH 75°21'34" WEST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

### **BENCHMARK:**

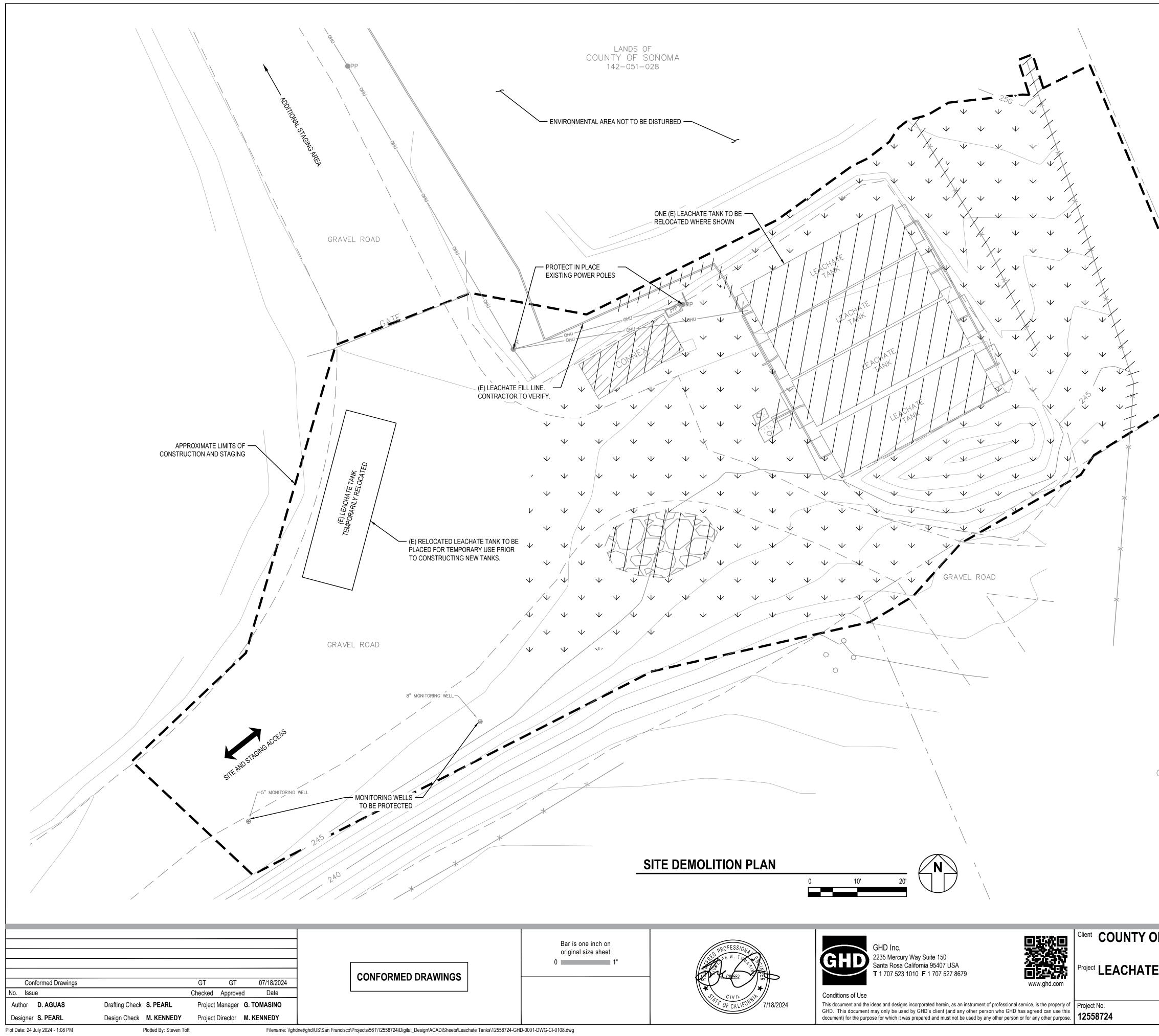
CINQUINI & PASSARINO CONTROL POINT NO. 20001, BEING A SET 1/2" CONTROL IRON PIPE AS SHOWN HEREON.

ELEVATION = 252.22' (NAVD 88) THE ORTHOMETRIC ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND WERE DETERMINED BY STATIC GPS TIES TO CGPS STATION P196 WITH A PUBLISHED ELLIPSOIDAL HEIGHT OF 298.618', IN ADDITION TO APPLYING THE NGS GEOID HEIGHT MODEL "GEOID2012B".

### SURVEY CONTROL TABLE

F	POINT #	NORTHING	EASTING	ELEV	DESCRIPTION
	20000	1851449.683	6416027.633	244.57	SET CPI CTRL MAG NAIL
	20001	1851582.973	6416092.563	252.22	SET CPI CTRL 1/2" IRON PIPE
	20002	1851642.321	6416236.381	248.73	SET CPI CTRL SPIKE 100d
	20003	1851586.207	6416195.242	245.47	SET CPI CTRL SPIKE 100d
	20004	1851537.904	6416294.476	240.73	SET CPI CTRL SPIKE 100d
	20005	1851767.176	6416036.777	248.13	SET CPI CTRL SPIKE 100d
	BL 1-S	1851582.786	6416214.521	245.43	BORING LOCATION
	BL 2-S	1851594.423	6416170.089	246.51	BORING LOCATION

OF SONC	OMA		Title EXISTING SITE PLAN AND SURVEY CONTROL - SONOMA SITE	Size ANSI D
E TANK	REPLACE	MENT		
	Date	Scale	Drawing No.	Sheet No.
	7/18/2024	AS SHOWN	C-107	10 of 48



### **GENERAL NOTES**

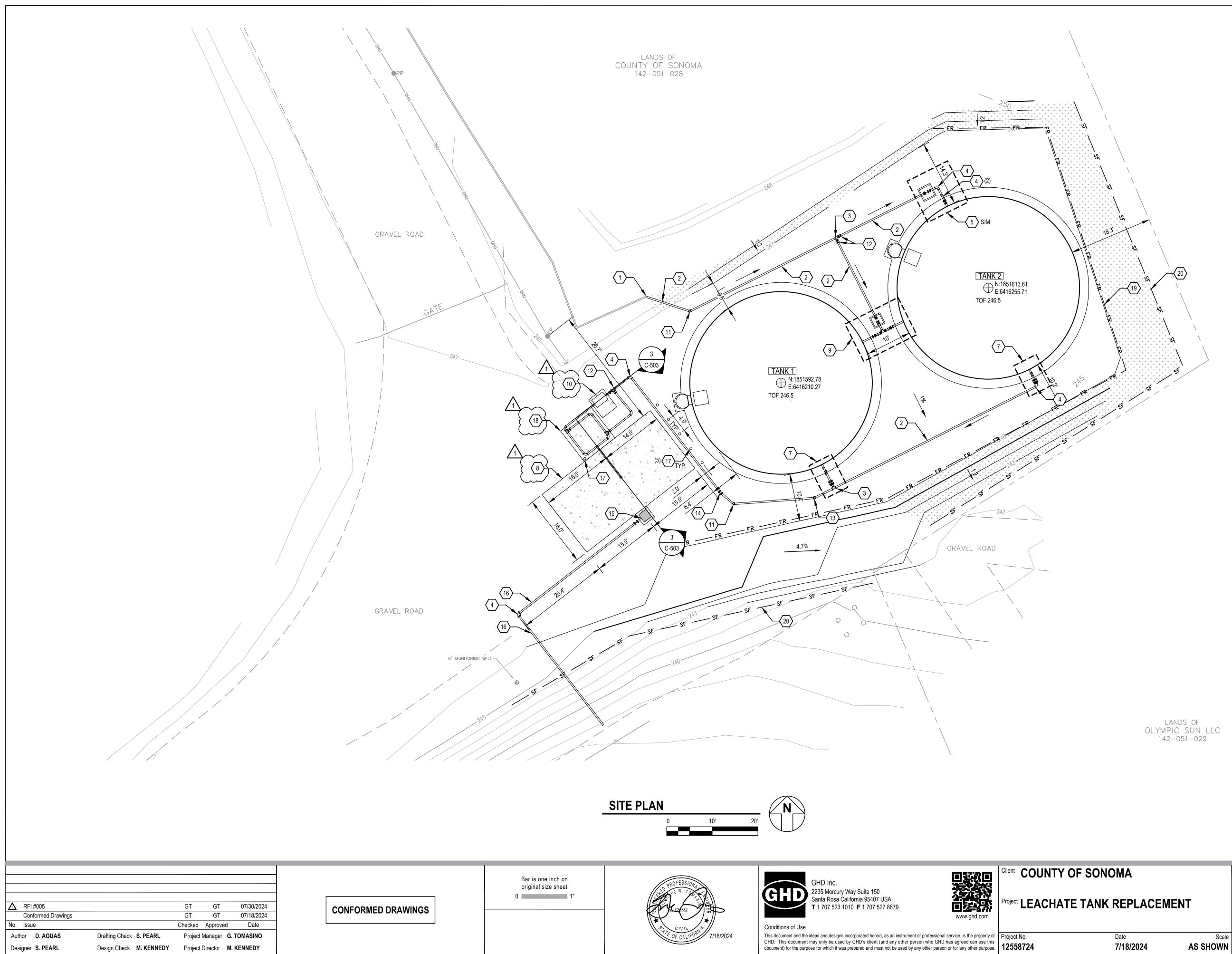
- (E) UTILITIES NOT DESIGNATED FOR REMOVAL MUST BE PROTECTED AND CONTINUOUS SERVICE MAINTAINED DURING THE CONTRACT. ANY TEMPORARY SHUT-DOWNS MUST BE COORDINATED WITH OWNER.
- REMOVAL AND RELOCATION OF THE (E) LEACHATE TANKS SHALL BE PHASED TO MAINTAIN UNINTERUPPTED STORAGE OF LEACHATE DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR (E) LEACHATE TANK REMOVAL AND RELOCATION AS DIRECTED BY OWNER.
- 3. CONTRACTOR TO INSTALL CONCRETE WASHOUT PER DETAIL 4 SHEET C-501.
- 4. 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 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND SHALL POTHOLE FOR EXACT LOCATIONS.
- CONTRACTOR SHALL USE CAUTION TO PREVENT DAMAGE TO TANKS THAT MUST REMAIN IN SERVICE AND AVOID INTERFERENCE WITH TANK AND LEACHATE SYSTEM OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE AND INTERFERENCE TO TANKS, AND LEACHATE SYSTEM OPERATIONS.
- 6. ACCESS ROADS TO NEIGHBORING FACILITIES SHALL BE MAINTAINED AND FREE OF OBSTRUCTIONS AT ALL TIMES.

### TANK RELOCATION NOTES

- 1. (E) LEACHATE TANKS TO BE DRAINED BY OWNER PRIOR TO REMOVAL AND RELOCATION.
- 2. OWNER RESPONSIBLE FOR COORDINATION AND REMOVAL OF (E) STORAGE CONTAINER.
- 3. CONTRACTOR RESPONSIBLE FOR COORDINATION, REMOVAL AND RELOCATION OF EXISTING LEACHATE TANKS AS DIRECTED BY OWNER.
- PREP AND GRADE AREA FOR TEMPORARY RELOCATION OF ONE (E) LEACHATE TANK AND CONNECT RELOCATED TANK TO (E) LEACHATE FILL LINES . CONTRACTOR TO VERIFY LOCATION OF (E) LEACHATE FILL LINES AND TRENCH AND CONNECT TO (E) RELOCATED TANK FOR TEMPORARY USE.
- 5. CONTRACTOR TO SALVAGE (E) MAG METER AT (E) LEACHATE TANKS FOR RE-USE.
- 6. CONNECT RELOCATED (E) LEACHATE TANK TO TEMPORARY POWER, BY OTHERS.
- 7. COMPLETE SITE GRADING, CONSTRUCT NEW TANKS AND CONNECT TO (E) LEACHATE FILL LINES PER PLANS ON SHEET C-110.
- 8. OWNER TO PUMP AND HAUL LEACHATE FROM (E) RELOCATED LEACHATE TANK. CONTRACTOR TO REMOVE TANK FROM SITE AS DIRECTED BY OWNER.

LANDS OF OLYMPIC SUN LLC 142-051-029

OF SON E TANK	OMA REPLACEN	<b>1ENT</b>	Title SITE DEMOLITION PLAN - SONOMA SITE	Size ANSI D
	Date	Scale	Drawing No.	o. Sheet No.
	7/18/2024	AS SHOWN	C-108	11 of 48



Plot Date: 14 August 2024 - 1:13 PM

Plotted By: Steven Toft

Filename: \\ghdnet\ghd\US\San Francisco\Projects\561\12558724\Digital\_Design\ACAD\Sheets\Leachate Tanks\12558724-GHD-0001-DWG-CI-0109.dwg

### **GENERAL NOTES**

- 1. ALL BACKFILLS AND FILLS SHALL BE MOISTURE CONDITIONED TO SLIGHTLY ABOVE THE OPTIMUM, PLACED IN HORIZONTAL LIFT NO MORE THAN 8 INCHES THICK AND COMPACTED TO A LEAST 90% R.C. IN ACCORDANCE WITH ASTM-D1557.
- 2. ENGINEERED FILL MATERIALS SHALL CONSIST OF A HOMOGENOUS MIXTURE OF SOIL AND ROCK FREE OF VEGETATION, ORGANIC MATERIAL, RUBBISH AND/OR RUBBLE, A MAXIMUM PARTICLE SIZE OF 4 INCHES, A PLASTICITY INDEX LESS THAN 15 AND A LIQUID LIMIT LESS THAN 45. EXCEPT FOR CLAY SOILS, NATIVE SOILS MAY BE USED AS ENGINEERED FILL.
- 3. FOUNDATION SUBGRADE PREPARATION WILL EXTEND A MINIMUM OF 5 FEET BEYOND THE PLANNED FOUNDATIONS IN ALL DIRECTIONS.
- 4. GEOTECHNICAL ENGINEER OR REPRESENTATIVE SHALL INSPECT THE TANK FOUNDATION EXCAVATIONS PRIOR TO INSTALLATION OF NEW IMPROVEMENTS. PROVIDE MINIMUM 3 WORKING DAY NOTICE FOR INSPECTIONS.

### **KEYNOTES**

- 1. CONTRACTOR TO PROVIDE NECESSARY FITTINGS TO CONNECT TO EXISTING 3" HDPE FILL LINE PER SPECIFICATIONS.
- 2. (N) 4" HDPE PIPE.
- 3. (N) 4"x4"x4" DI TEE.
- 4. (N) 4" 90° DI ELBOW.
- 5. (N) 4" TANK INLET, SEE DETAIL 1 SHEET C-502.
- 6. NOT USED.

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- 7. (N) 4" TANK OUTLET, SEE DETAIL 2 SHEET C-502.
- 8. (N) 16' X 30' CONTAINMENT SLAB PER DETAIL 1, SHEET S-108.

$\land$	$\sim$		$\sim$
4	NW CORNER	N=1851568.321 E=6416157.875	FS=246.17 )
$\mathbf{i}$	SW CORNER	N=1851555.683 E=6416167.686	
	$\sim$		$\sim$
9.	(N) TANK INTE	RTIE, SEE DETAIL 3 SHEET C-502.	
10.	(N) CAL WEST	RAIN CUSTOM PUMP, FLOW METE	ER AND
	BACKELOW PE	EVENTION ASSEMBLY OR APPRO	VED EOLIAI

BACKFLOW PREVENTION ASSEMBLY OR APPROVED EQUAL, ANCHORED TO PAD PER DETAIL 2, SHEET S-004 PER MANUFACTURER REQUIREMENTS.

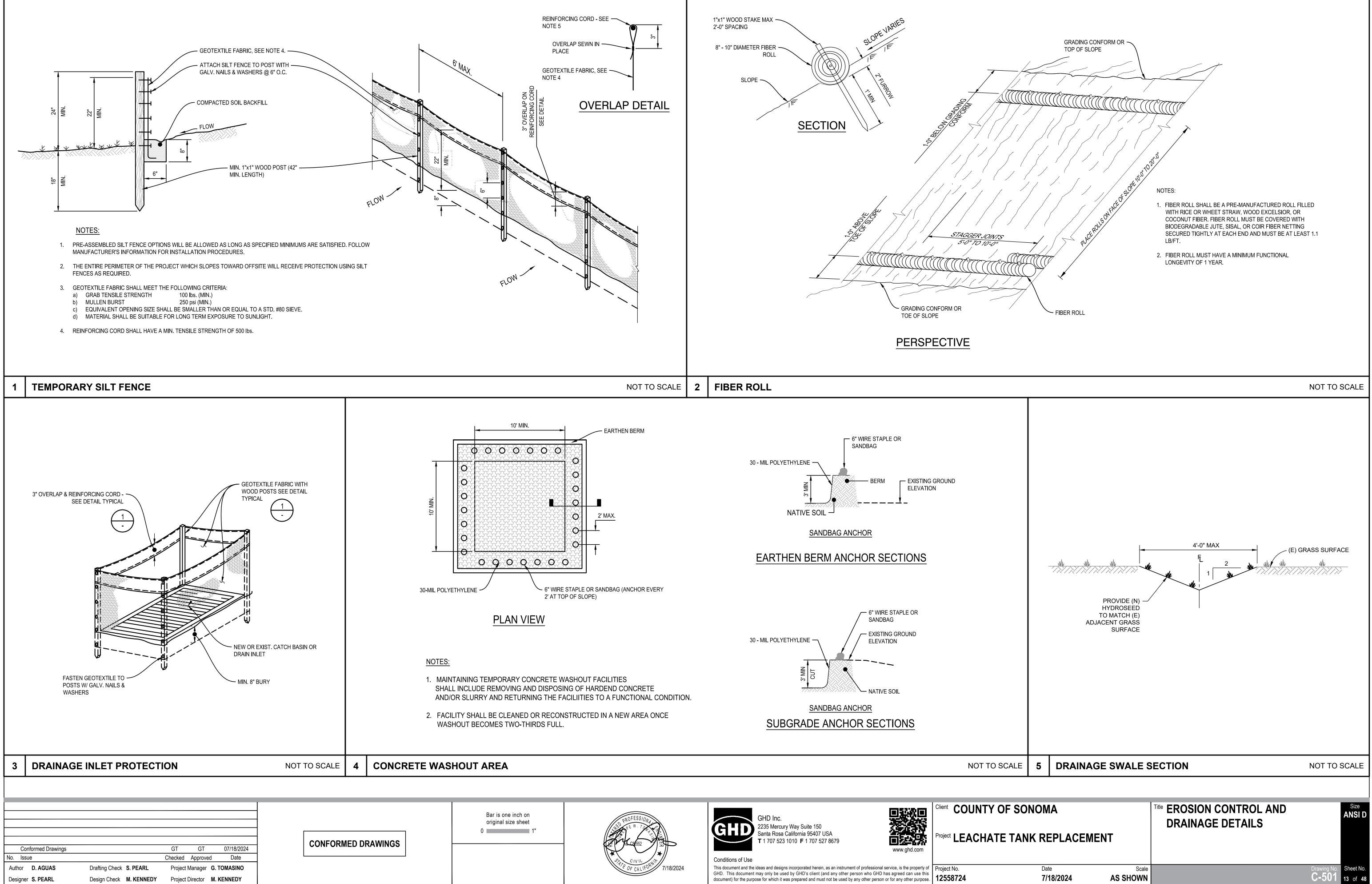
× /	$\sim\sim\sim$	$\frown \frown $	$\sim \sim \sim \sim$
	NW CORNER	N=1851589.054 E=6416161.933	FS=246.50
<u>'                                    </u>	NE CORNER	N=1851591.507 E=6416171.225	FS=246.50 🔨
(	SW CORNER	N=1851585.104 E=6416171.132	FS=246.50 🖌
(	SE CORNER	N=1851587.557 E=6416174.292	FS=246.50)
	$\sim$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$

- 11. (N) 4" 45° DI ELBOW.
- 12. (N) 4" DI GATE VALVE IN RISER BOX, SEE DETAIL 2 SHEET C-503.
- 13. (N) 4" 22.5° DI ELBOW.
- 14. (N) 4" 11.25° DI ELBOW.
- 15. (N) 24" X 24" X 36" JENSEN PRECAST JUNCTION BOX OR APPROVED EQUAL PER DETAIL 3, SHEET C-503.
- 16. (N) 6" PVC DRAIN PIPE MIN 1% SLOPE. CONTRACTOR TO COORDINATE DISCHARGE POINT WITH OWNER.
- 17. (N) BOLLARD PER DETAIL 5, SHEET C-503.
- 18. (N) 8.5' X 8.5' SLAB PER DETAIL 2, S-004.

× /	$\sim\sim\sim$	$\sim\sim\sim\sim\sim\sim$	$\sim \sim \sim \sim$
1	SW CORNER	N=1851575.519 E=6416167.146	FS=246.50 🍾
<u>'</u>	NW CORNER	N=1851582.233 E=6416161.933	FS=246.50 🔨
(	SE CORNER	N=1851580.731 E=6416173.860	FS=246.50 🖌
(	NE CORNER	N=1851587.445 E=6416168.647	FS=246.50)
	$\sim$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$

- 19. INSTALL FIBER ROLLS PER DETAIL 2 SHEET C-501.
- 20. INSTALL SILT FENCE ALONG BOTTOM OF SLOPE PER DETAIL 1 SHEET C-501.

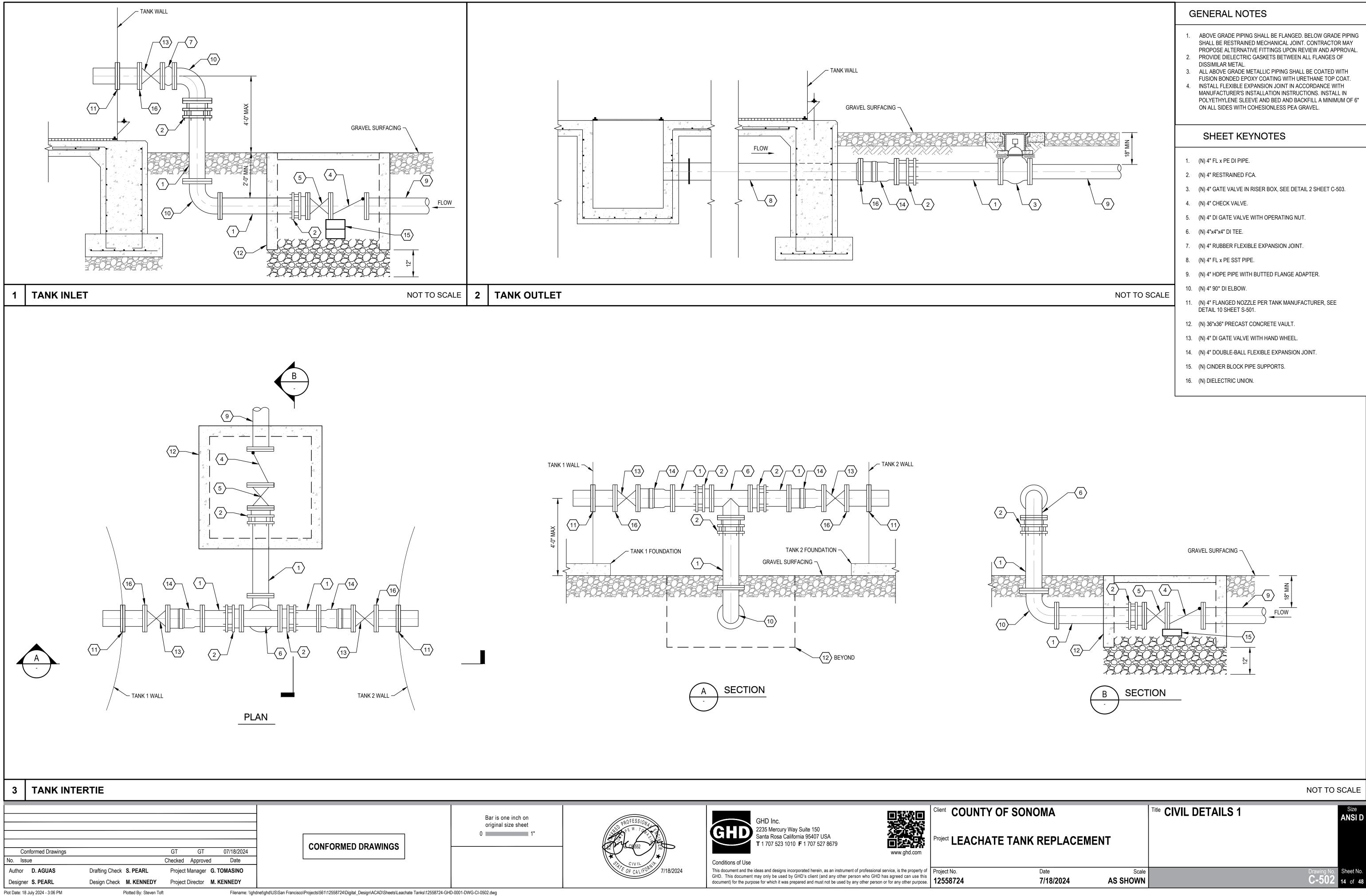
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E TANK REPLACEMENT				
	Date <b>7/18/2024</b>	Scale AS SHOWN		Sheet No. 12 of 48



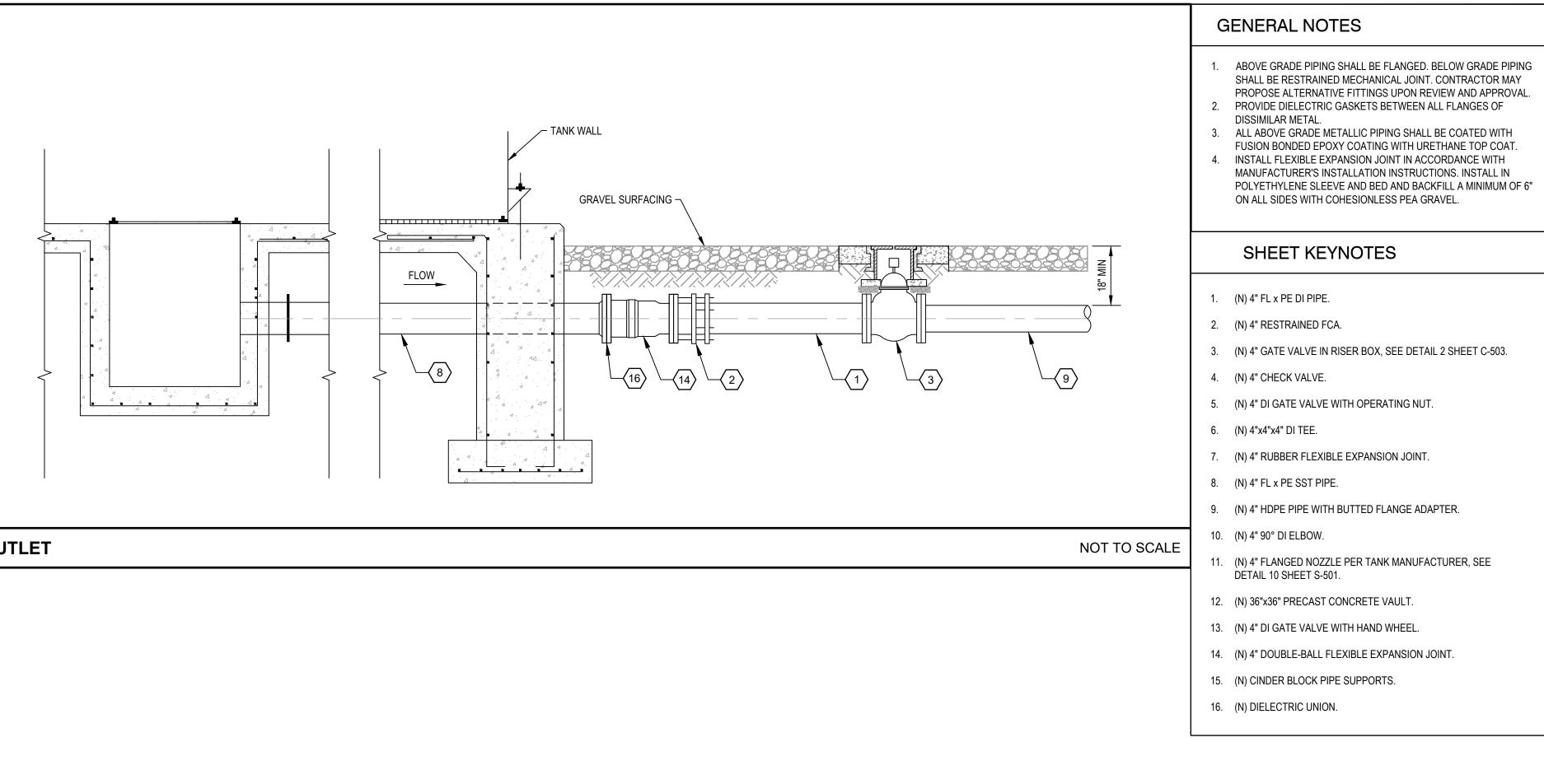
Plot Date: 18 July 2024 - 3:05 PM

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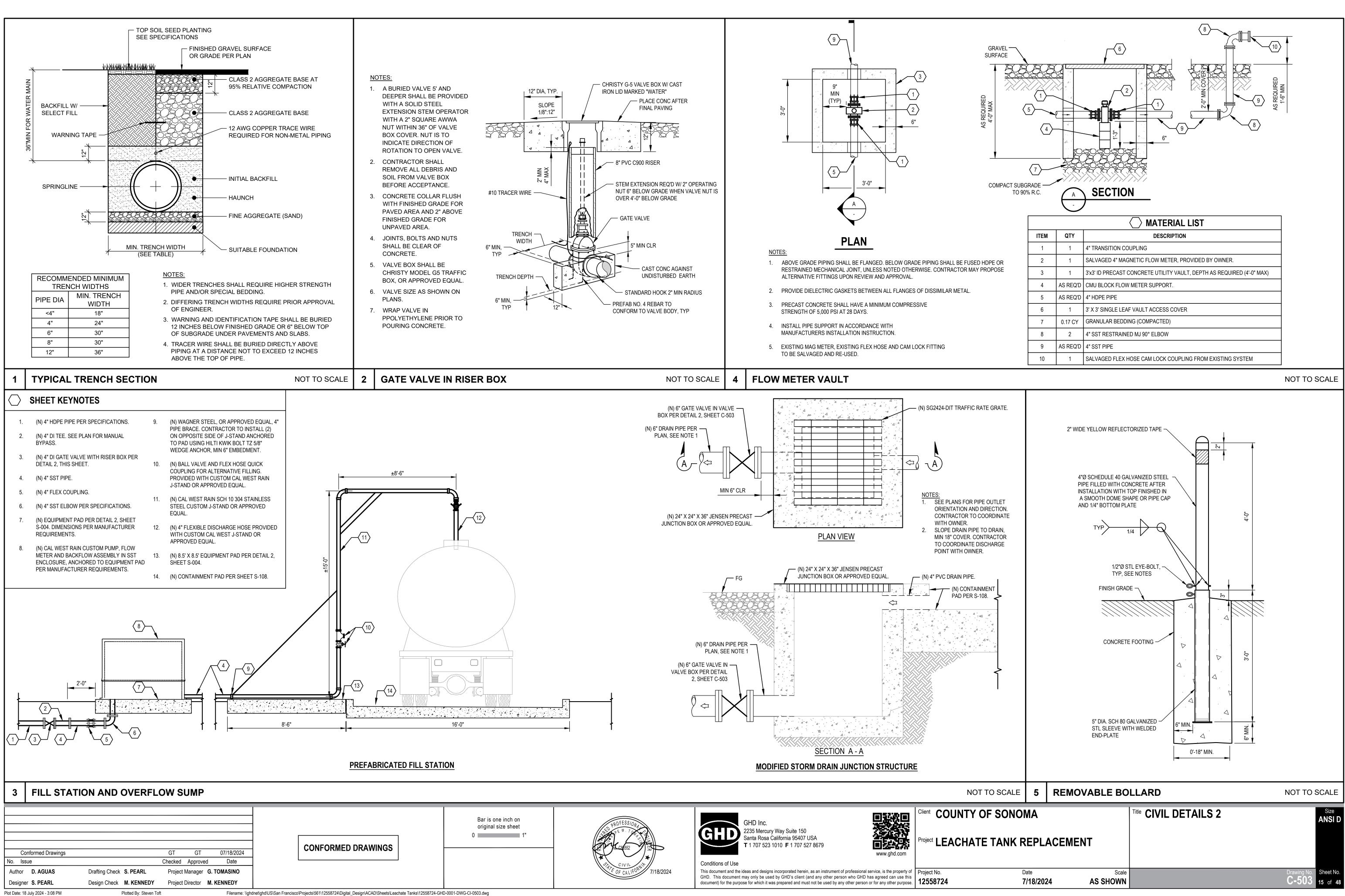
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E TA	NK REPLACEN	<b>MENT</b>		
	Date <b>7/18/2024</b>	Scale AS SHOWN		Drawing No. Sheet No. <b>C-502</b> 14 of 48



Plot Date: 18 July 2024 - 3:08 PM

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### STRUCTURAL ABBREVIATIONS

AB ABV	ANCHOR BOLT ABOVE	JT	JOINT
ACI	AMERICAN CONCRETE INSTITUTE	L	ANGLE
ADD'L	ADDITIONAL	LBS	POUNDS
AISC	AMERICAN INSTITUTE OF STEEL	LG	LONG
AISI	CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE	LL LLH	LIVE LOAD LONG LEG HORIZONTAL
AISI AITC	AMERICAN IRON AND STEEL INSTITUTE AMERICAN INSTITUTE OF TIMBER	LLH LLV	LONG LEG HORIZONTAL
AITC	CONSTRUCTION	LOC	LOCATION
ALT	ALTERNATE	LONGIT/LONGL	LONGITUDINAL
ALUM	ALUMINUM	LP	LOW POINT
ANSI	AMERICAN NATIONAL STANDARDS	LT	LEFT
	INSTITUTE	LWR	LOWER
APA	AMERICAN PLYWOOD ASSOCIATION		
ARCH ASTM	ARCHITECT/ARCHITECTURAL AMERICAN SOCIETY FOR TESTING	MAINT MAS	MAINTENANCE MASONRY
ASTIVI	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAS	MASUNRY
AWS	AMERICAN WELDING SOCIETY	MB	MACHINE BOLT
AWWA	AMERICAN WATER WORKS ASSOCIATION	MC	CHANNEL
		MCJT	MASONRY CONTROL JO
B/	BOTTOM OF	MECH	MECHANICAL
BB	BOTTOM BARS	MFR	MANUFACTURER
BLDG BLKG	BUILDING BLOCKING	MHHW MIN	MEAN HIGHER HIGH WA
BM	BEAM	MISC	MISCELLANEOUS
BRG	BEARING	MLLW	MEAN LOWER LOW WAT
BS	BOTH SIDES	MNTG	MOUNTING
BTWN	BETWEEN	MO	MASONRY OPENING
		MOD	MODIFIED
C	CHANNEL	MTL	METAL
C/C	CENTER TO CENTER		
CAP		(E)	
CBC	CALIFORNIA BUILDING CODE	NIC	
CF CHKD	CUBIC FEET CHECKED	NO. NOM	NUMBER NOMINAL
CHKD	CHECKED CONTRACTION/CONTROL JOINT	NOM	NEAR SIDE
CL	CENTERLINE	NTS	NOT TO SCALE
CLR .	CLEAR		NOT TO COMEE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OF	OUTSIDE FACE
CONN	CONNECTION	OPG	OPENING
CONSTR	CONSTRUCTION CONTINUOUS	OPP	OPPOSITE
CONT COORD	CONTINUOUS COORDINATE	PL	PLATE
COORD	COORDINATE CONCRETE REINFORCING STEEL INSTITUTE	PL PLCS	PLACES
CTR/CTR'D	CENTER/CENTERED	PNL	PANEL
		PREFAB	PREFABRICATED
d	PENNY (NAIL SIZE)	PT	POINT, PRESSURE TREA
DBL	DOUBLE	<b></b>	
DEG	DEGREES	QTY	QUANTITY
DET DIA	DETAIL DIAMETER	R/RAD	RADIUS
DIA DIM	DIAMETER DIMENSION	REF	REFERENCE
DIM	DIMENSION DEAD LOAD	REINF	REINFORCING
DWG	DRAWING	REQD	REQUIRED
DWL	DOWEL	RF	ROOF
		RM	ROOM
(E)/EXIST	EXISTING		
EA	EACH	SCHED/SCH SEC	SCHEDULE SECTION
EF EL/ELEV	EACH FACE ELEVATION	SEC	SQUARE FEET
EMBED	EMBEDMENT	SHT	SHEET
ENGR	ENGINEER	SIM	SIMILAR
EQ	EQUAL	SP	SPACE/SPACES
EQUIP	EQUIPMENT	SPCG	SPACING
ETC	ET CETERA	SPEC	SPECIFICATIONS
EW	EACH WAY	SST	STAINLESS STEEL
EWEF	EACH WAY EACH FACE	STD	STANDARD
EXT	EXTERIOR	STIFF STL	STIFFENER STEEL
FF	FINISHED FLOOR	STRUCT	STEEL STRUCTURAL
FG	FINISHED FLOOR FINISHED GRADE	SYM	SYMMETRICAL
FIN	FINISH	UT MI	
FL	FLOOR	Т	TOP
FLG/FL	FLANGE	Τ/	TOP OF
FND	FOUNDATION	T&B	TOP AND BOTTOM
FO	FACE OF	TB	TOP OF BAR
FOM	FACE OF MASONRY	THK	THICK
FOW	FACE OF WALL	TOC	TOP OF CONCRETE
FPT FRMG	FEMALE PIPE THREAD	TOS TYP	TOP OF STEEL TYPICAL
	FRAMING FOOTING	117	TIFICAL
		UNO	UNLESS NOTED OTHER
FIG		UON	UNLESS OTHERWISE NO
	GAUGE	~ ~	
	GAUGE GALVANIZED		
GR	GALVANIZED GRADE	VAR	VARIES
GA GALV	GALVANIZED		VARIES VERTICAL
GA GALV GR	GALVANIZED GRADE	VAR	
GA GALV GR GWB	GALVANIZED GRADE GYPSUM WALL BOARD	VAR VERT	VERTICAL
GA GALV GR GWB HK	GALVANIZED GRADE GYPSUM WALL BOARD HOOK	VAR VERT W/	VERTICAL
GA GALV GR GWB HK HM	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL	VAR VERT W/ W OR WF	VERTICAL WITH WIDE FLANGE (BEAM)
GA GALV GR GWB HK HM HOF	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE	VAR VERT W/ W OR WF W/O	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT
GA GALV GR GWB HK HM HOF HORIZ	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL	VAR VERT W/ W OR WF W/O WP	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT
GA GALV GR GWB HK HM HOF HORIZ HSS	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL	VAR VERT W/ W OR WF W/O	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT
GA GALV GR GWB HK HM HOF HORIZ HSS	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL	VAR VERT W/ W OR WF W/O WP WS	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP
GA GALV GR GWB HK HM HOF HORIZ	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL	VAR VERT W/ W OR WF W/O WP WS	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND
GA GALV GR GWB HK HM HOF HORIZ HSS HT IBC ID	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL HEIGHT INTERNATIONAL BUILDING CODE INSIDE DIAMETER	VAR VERT W/ W OR WF W/O WP WS WT & & @	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND AT
GA GALV GR GWB HK HM HOF HORIZ HSS HT IBC ID IE	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL HEIGHT INTERNATIONAL BUILDING CODE INSIDE DIAMETER THAT IS	VAR VERT W/ W OR WF W/O WP WS WT & & @ *	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND AT DEGREE
GA GALV GR GWB HK HM HOF HORIZ HSS HT IBC ID IE INFO	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL HEIGHT INTERNATIONAL BUILDING CODE INSIDE DIAMETER THAT IS INFORMATION	VAR VERT W/ W OR WF W/O WP WS WT & @ Ø	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND AT DEGREE DIAMETER
GA GALV GR GWB HK HM HOF HORIZ HSS HT IBC ID IE INFO INT	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL HEIGHT INTERNATIONAL BUILDING CODE INSIDE DIAMETER THAT IS INFORMATION INTERIOR	VAR VERT W/ W OR WF W/O WP WS WT & @ ° Ø	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND AT DEGREE DIAMETER FEET
GA GALV GR GWB HK HM HOF HORIZ HSS HT IBC ID IE INFO INT INTERMED	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL HEIGHT INTERNATIONAL BUILDING CODE INSIDE DIAMETER THAT IS INFORMATION INTERIOR INTERNEDIATE	VAR VERT W/ W OR WF W/O WP WS WT & @ * Ø '	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND AT DEGREE DIAMETER FEET INCHES
GA GALV GR GWB HK HM HOF HORIZ HSS HT IBC ID IE INFO INT	GALVANIZED GRADE GYPSUM WALL BOARD HOOK HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL TUBE STEEL/HOLLOW STRUCTURAL STEEL HEIGHT INTERNATIONAL BUILDING CODE INSIDE DIAMETER THAT IS INFORMATION INTERIOR	VAR VERT W/ W OR WF W/O WP WS WT & @ ° Ø	VERTICAL WITH WIDE FLANGE (BEAM) WITHOUT WORK POINT WATERSTOP TEE AND AT DEGREE DIAMETER FEET

**CONFORMED DRAWINGS** GT GT 07/18/2024 Checked Approved Date

Plot Date: 18 July 2024 - 3:30 PM

No. Issue

Author CFB

Designer MGK

Conformed Drawings

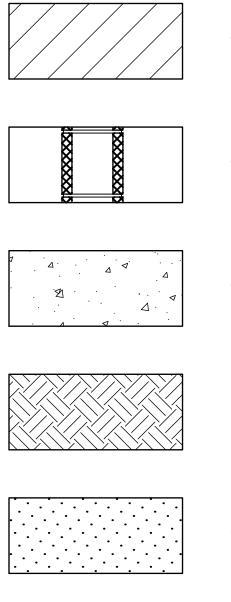
Design Check MGK Project Director **M. KENNEDY** Plotted By: Steven Toft

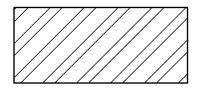
Drafting Check MGK

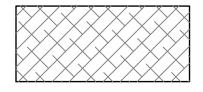
Project Manager G. TOMASINO

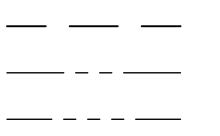
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### STRUCTURAL LEGEND











CMU IN SECTION

CONCRETE IN SECTION

EARTH IN SECTION

GROUT IN SECTION

STEEL IN SECTION

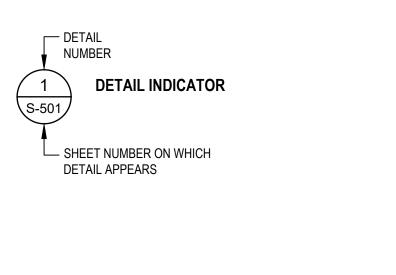
VOID FORM IN SECTION

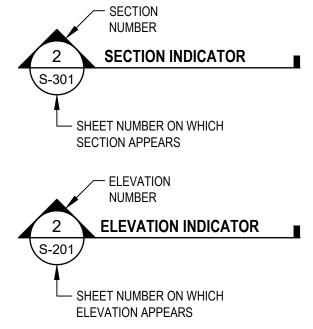
FOOTING

SLAB CONSTRUCTION JOINT

SLAB CONTROL JOINT

### ANNOTATION





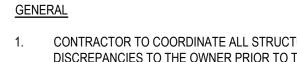
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2. CONTRACTOR TO COORDINATE ALL NEW WORK WITH EXISTING SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER PRIOR TO CONSTRUCTION.

3. ABBREVIATIONS ON THIS SHEET APPLY ONLY TO THE STRUCTURAL DRAWINGS, REFER TO OTHER DISCIPLINES FOR APPLICABLE SYMBOLS NOT PROVIDED HERE.

4. THIS IS A STANDARD ABBREVIATION AND LEGEND SHEET, THEREFORE, SOME ABBREVIATIONS AND LEGEND SYMBOLS MAY APPEAR ON THIS SHEET AND MAY NOT BE UTILIZED ON THIS PROJECT.

5. DO NOT SCALE DRAWINGS.

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Client COUNTY (

1. CONTRACTOR TO COORDINATE ALL STRUCTURAL DOCUMENTS WITH ALL OTHER DISCIPLINES AND REPORT ANY DISCREPANCIES TO THE OWNER PRIOR TO THE START OF ANY FABRICATION OR CONSTRUCTION.

OF SONOMA			STRUCTURAL LEGEND, ABBREVIATIONS AND GENERAL	Size ANSI D
TE TANK REPLACEMENT			NOTES	
	Date <b>7/18/2024</b>	Scale AS SHOWN	Drawing No. S-001	Sheet No. <b>16</b> of <b>48</b>

### <u>GENERAL</u>

- 1. REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- 2. THESE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.
- 4. DO NOT SCALE THE DRAWINGS.
- 5. PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHOM IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
- 6. INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- 7. REFER TO CIVILL DRAWINGS FOR SIZE AND LOCATION OF FLOOR, ROOF AND WALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL AND PLUMBING TRADES. SUBMIT FINAL SIZING AND LOCATION REQUIREMENTS OF OPENINGS TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
- 8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.
- 9. UNLESS NOTED OTHERWISE, REFER TO DRAWINGS OTHER THAN STRUCTURAL FOR FINISHES, SLOPES, DEPRESSIONS, OPENINGS, CURBS, STAIRS, RAMPS, TRENCHES, EQUIPMENT AND LOCATIONS AND EXTENT OF SUCH CONDITIONS.
- 10. CONTRACTOR TO COORDINATE ALL NEW WORK WITH EXISTING SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 11. DETAILS OR CONDITIONS NOT FULLY DEVELOPED ON STRUCTURAL DOCUMENTS ARE SIMILAR TO DEVELOPED DETAILS.
- 12. REFER TO SITE SPECIFIC GEOTECHNICAL REPORTS FOR SITE CONDITIONS, EXCAVATION, SHORING REQUIREMENTS, UNDERPINNING, BACKFILL BEHIND WALLS AND SUBDRAINAGE PREPARATIONS.
- 13. ALL BUILDING FOUNDATION PLANS, FLOOR PLANS AND ROOF PLANS TO BE COORDINATED WITH GENERAL NOTES AND TYPICAL DETAILS AS APPLICABLE.

### SPECIAL INSPECTION

1. SPECIAL INSPECTIONS, PER CBC 1704A AND 1705A.

### CONCRETE

- DAYS.
- 2. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM DIMENSIONS. CONTRACTOR TO REVIEW FORMING, REINFORCING DETAILS AND ANY EMBEDDED ITEMS AND DETERMINE PRIOR TO FABRICATION OF ANY REINFORCING, PLACEMENT REQUIREMENTS AND CLEARANCES.
- 3. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- 4. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO ¼ INCH AMPLITUDE AND CLEAN OF LAITANCE. FOREIGN MATTER, AND LOOSE PARTICLES. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. SUBMIT ALTERNATE JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
- <sup>1</sup>/<sub>4</sub> INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. EXISTING SURFACE SHALL BE SATURATED SURFACE DRY WITH NO STANDING WATER PRIOR TO NEW CONCRETE POUR.
- 5. AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 6. CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

APPROVED EQUAL.

### FORMWORK

2. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:

'						
	LOCATION	REMOVE FORMS AND SHORES NO SOONER				
	CONCRETE PLACED AGAINST EARTH	THAN				
	COLUMNS AND WALLS	72 HOURS				
	FOOTINGS, PILE CAPS AND GRADE BEAMS	48 HOURS				

WALLS, COLUMNS, AND UNDERSIDE OF ELEVATED SLABS.

					Bar origi 0
				CONFORMED DRAWINGS	
Conformed Drawings		GT GT	07/18/2024		
No. Issue		Checked Approved	Date		
Author CFB	Drafting Check MGK	Project Manager G.	TOMASINO		
Designer <b>MGK</b>	Design Check MGK	Project Director M.	KENNEDY		
Plot Date: 18 July 2024 - 3:31 PM	Plotted By: Steve	n Toft	Filename: \\gho	dnet\ghd\US\San Francisco\Projects\561\12558724\Digital_Design\ACAD\Sheets\Leachate Tanks\12558724-GHD-0	0001-DWG-ST-0002.dwg

### STRUCTURAL GENERAL NOTES

1. ALL CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28

ONCING DANS IS AS I DELOWS, UNLESS OTTERWISE NOTED.				
	CLEAR COVER			
TH	3 INCHES			
WEATHER				
	2 INCHES 1 1/2 INCHES			
CE)	1 1/2 INCHES			
NOT H	1 1/2 INCHES			
1	3/4 INCH 1 INCH 1 1/2 INCHES 2 1/2 INCHES			

7. NON-SHRINK GROUT, 7000 PSI: EUCLID CHEMICAL COMPANY'S "EUCO-NS", L&M CRYSTEX, MASTER BUILDERS' "MASTERFLOW 713", OR FIVE STAR GROUT. WHERE HIGH FLUIDITY OR INCREASED PLACING TIME IS REQUIRED, USE EUCLID CHEMICAL COMPANY'S "EUCO HI -FLOW GROUT", MASTER BUILDERS' "MASTERFLOW 928", OR

1. PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE.

3. PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS INCLUDING, BUT NOT LIMITED TO,

### REINFORCING STEEL

- 1. ALL CONCRETE REINFORCING SHALL BE ASTM A615, GRADE 60.
- 2. REINFORCING SHALL EXTEND CONTINUOUS FOR THE DIMENSION SHOWN.
- 3. NO WELDING OF ANY REINFORCING IS PERMITTED.
- 4. LOCATE ALL REINFORCING AS SHOWN ON DRAWINGS AND FASTEN SECURELY.
- 5. ALL REINFORCING TO TERMINATE WITH STANDARD HOOKS AS SHOWN ON PLANS. ALL STIRRUPS AND TIES TO BE CLOSED WITH 135 DEGREE BENDS.
- 6. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3 -FOOT SPACING.

### FOUNDATIONS

- 1. CONTRACTOR SHALL PREPARE SITE AND PROVIDE FILL IN ACCORDANCE WITH ALL RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION.
- 2. CONTRACTOR'S GEOTECHNICAL ENGINEER TO BE PRESENT TO OBSERVE SITE PREPARATION AND EXCAVATION AS WELL AS FILL EXCAVATION AND RE-COMPACTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
- 3. PROVIDE SITE DE-WATERING AS NECESSARY TO ACHIEVE THE WORK. WATER SHALL BE TESTED PRIOR TO DISPOSAL.
- 4. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- 5. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
- 6. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS UTILITY LINES, FOUNDATIONS, ETC., ARE FOUND.
- 7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
- 8. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. 9. EXCAVATIONS FOR FOUNDATIONS MUST BE ACCEPTED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE OWNER'S REPRESENTATIVE WHEN EXCAVATIONS ARE READY FOR INSPECTION.

Bar is one inch on original size sheet 0 1"





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OF SONOMA		Title STRUCTURAL GENERAL NOTES	Size ANSI D
E TANK REPLACEME	NT		
Date <b>7/18/2024</b>	Scale AS SHOWN	Drawing No. <b>S-002</b>	Sheet No. 17 of 48

	STATEMENT OF SPECIAL INSPECTIONS		OF INSPECTORS AND ECHNICIANS	TABLE 1705.3 - CON	
	THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE SECTIONS 1704 AND 1705.	THE QUALIFICATIONS OF ALL PERSONNEL PER ACTIVITIES ARE SUBJECT TO THE APPROVAL OF N	RFORMING SPECIAL INSPECTION AND TESTING MWD. THE CREDENTIALS OF ALL INSPECTORS AND	PRESTRESSING TENDONS AND PLACEMENT.	AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI AGENCY # (QUALIF.):
	THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASS THE FOLLOWING DISCIPLINES:	TESTING TECHNICIANS SHALL BE PROVIDED IF REQU			AGENCT # (QUALIF.) ACI-CCI, ICC-RCSI
	<ul> <li>STRUCTURAL SPECIAL INSPECTIONS PER 1704</li> <li>STRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE</li> <li>STRUCTURAL SPECIAL INSPECTIONS FOR WIND RESISTANCE</li> </ul>	WHEN THE REGISTERED DESIGN PROFESSIONAL IN THAT THE INDIVIDUAL PERFORMING A STIPULA CERTIFICATION OR LICENSE AS INDICATED BELOW	ATED TEST OR INSPECTION HAVE A SPECIFIC	ITEM 3: INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI
	THE SCHEDULE OF SPECIAL INSPECTIONS SUMMARIZES THE SPECIAL INSPECTIONS AND TESTS REQUIRED. SPECIAL INSPECTORS WILL REFER TO THE APPROVED PLANS AND SPECIFICATIONS FOR	AGENCY NUMBER ON THE SCHEDULE.	, SUCH DESIGNATION SHALL APPEAR BELOW THE	□ PERIODIC	AGENCY # (QUALIF.):
	DETAILED SPECIAL INSPECTION REQUIREMENTS. ANY ADDITIONAL TESTS AND INSPECTIONS REQUIRED BY THE APPROVED PLANS AND SPECIFICATIONS WILL ALSO BE PERFORMED.		- A LICENSED SE OR PE SPECIALIZING IN	CONCRETE.	ACI-CCI, ICC-RCSI
	THE SPECIAL INSPECTIONS IDENTIFIED ARE IN ADDITION TO THOSE REQUIRED BY OTHER SECTIONS OF THE BUILDING CODE. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL	IN SOIL MECHANICS AND F	R - A LICENSED GE OR PE SPECIALIZING	ITEM 5:       VERIFYING USE OF REQUIRED DESIGN MIX.         PERIODIC       CONTINUOUS	AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI
	THE SPECIAL INSPECTION COORDINATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL	PASSED THE FUNDAMENT	TALS OF ENGINEERING EXAMINATION	ITEM 6: AT TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS.	AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI
	FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE	AMERICAN CONCRETE INSTITUTE (ACI) CEI ACI-CFTT CONCRETE FIELD TESTING TEC ACI-CCI CONCRETE CONSTRUCTION INS	CHNICIAN - GRADE 1	PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	
	NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL/CONTRACTING OFFICER AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER	ACI-LTT LABORATORY TESTING TECHNIC ACI-STT STRENGTH TESTING TECHNICIA	CIAN - GRADE 1&2	ITEM 7: INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI
	RESPONSIBILITIES.	AMERICAN WELDING SOCIETY (AWS) CERT		□ PERIODIC	AGENCY # (QUALIF.):
	INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 1704.1.2.	AWS-CWI CERTIFIED WELDING INSP AWS/AISC-SSI CERTIFIED STRUCTURAL		CURING TEMPERATURE AND TECHNIQUES.	ACI-CCI, ICC-RCSI
	A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS	INTERNATIONAL CODE COUNCIL (ICC) CER			AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI
	SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY PER SECTION 1704.1.2. THE FINAL REPORT WILL DOCUMENT THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF DISCREPANCIES NOTED IN INSPECTIONS.	ICC-SMSI STRUCTURAL MASONRY SPECIA	DING SPECIAL INSPECTOR	B: GROUTING OF BONDED PRESTRESSING	
	JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.	ICC-SFSI SPRAY-APPLIED FIREPROOFING ICC-PCSI PRESTRESSED CONCRETE SPE ICC-RCSI REINFORCED CONCRETE SPEC	CIAL INSPECTOR		
	THE CONTRACTOR IS REQUIRED TO COORDINATE ALL INSPECTIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS	AMERICAN SOCIETY OF NONDESTRUCTIVE		ITEM 10: ERECTION OF PRECAST CONCRETE MEMBERS	AGENCY # (QUALIE.): -ACI-CCI, ICC-RCSI
	PRIOR TO ANY SPECIAL INSPECTIONS THAT ARE REQUIRED. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO ANY CONCRETE TO BE POURED.	SCHEDULE OF INSPECTIO	N AND TESTING AGENCIES	ITEM 11: VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI
	THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED PER SECTION 1704.1. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING	THIS STATEMENT OF SPECIAL INSPECTIONS / QUALI INCLUDES THE FOLLOWING BUILDING SYSTEMS:			AGENCY # (QUALIF.):
	OFFICIAL/CONTRACTING OFFICER, PRIOR TO COMMENCING WORK. IF APPROPRIATE AGENTS ARE NOTED AS "TO BE DETERMINED (TBD)", THE OWNER IS RESPONSIBLE TO COORDINATE THE ASSEMBLY OF A SPECIAL INSPECTION TEAM. ALL SPECIAL INSPECTORS AND QUALIFICATIONS SHALL BE	SOILS AND FOUNDATIONS	WOOD CONSTRUCTION MECHANICAL & ELECTRICAL SYSTEMS	DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	ACI-CCI, ICC-RCSI
	SUBMITTED TO GHD INC. AND THE BUILDING OFFICIAL FOR REVIEW. SPECIALLY INSPECTED WORK THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE	PRECAST CONCRETE     A       MASONRY LEVEL 1     S	ARCHITECTURAL SYSTEMS STRUCTURAL STEEL COLD-FORMED STEEL FRAMING		
	BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE.	SPECIAL INSPECTION AGENCIES	FIRM AND CONTACT INFO.		
	OTHERWISE SPECIFIED. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK	1. SPECIAL INSPECTION COORDINATOR	TBD		
	IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT IS THE AGENT'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT ALL THE WORK IS INSPECTED IN	2. CONCRETE INSPECTOR	TBD		
	ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE.	3. STEEL INSPECTOR     4. SOILS INSPECTOR	TBD TBD		
	CONTRACTOR STATEMENT OF RESPONSIBILITY	5. CONCRETE TESTING AGENCY	TBD		
	EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OR FABRICATION OF A SYSTEM OR COMPONENT DESIGNATED ABOVE AS PART OF THE MAIN WIND FORCE OR MAIN SEISMIC FORCE RESISTING SYSTEMS ABOVE MUST SUBMIT A STATEMENT OF RESPONSIBILITY PER SECTION 1706.				
		Bar is one inch on	DOFESS/0	GHD Inc.	
		original size sheet 0 1"	KUOCHI HI CHI	2235 Mercury Way Suite 150 Santa Rosa California 95407 USA	
Conformed Drawings . Issue	GT GT 07/18/2024 Checked Approved Date		No. C7218	<b>T</b> 1 707 523 1010 <b>F</b> 1 707 527 8679	www.ghd.
uthor CFB Drafting Check MGK esigner MGK Design Check MGK	Project Manager G. TOMASINO		OF CIVIL FOF CALIFORNIA 7/18/2024	Conditions of Use This document and the ideas and designs incorporated herein, as an instrumen GHD. This document may only be used by GHD's client (and any other pe document) for the purpose for which it was prepared and must not be used by a	rson who GHD has agreed can

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	D-FORMED STEEL FRAMIING
ECTION AGENCIES	FIRM AND CONTACT INFO.
ECTION COORDINATOR	TBD
SPECTOR	TBD
TOR	TBD
TOR	TBD
ESTING AGENCY	TBD







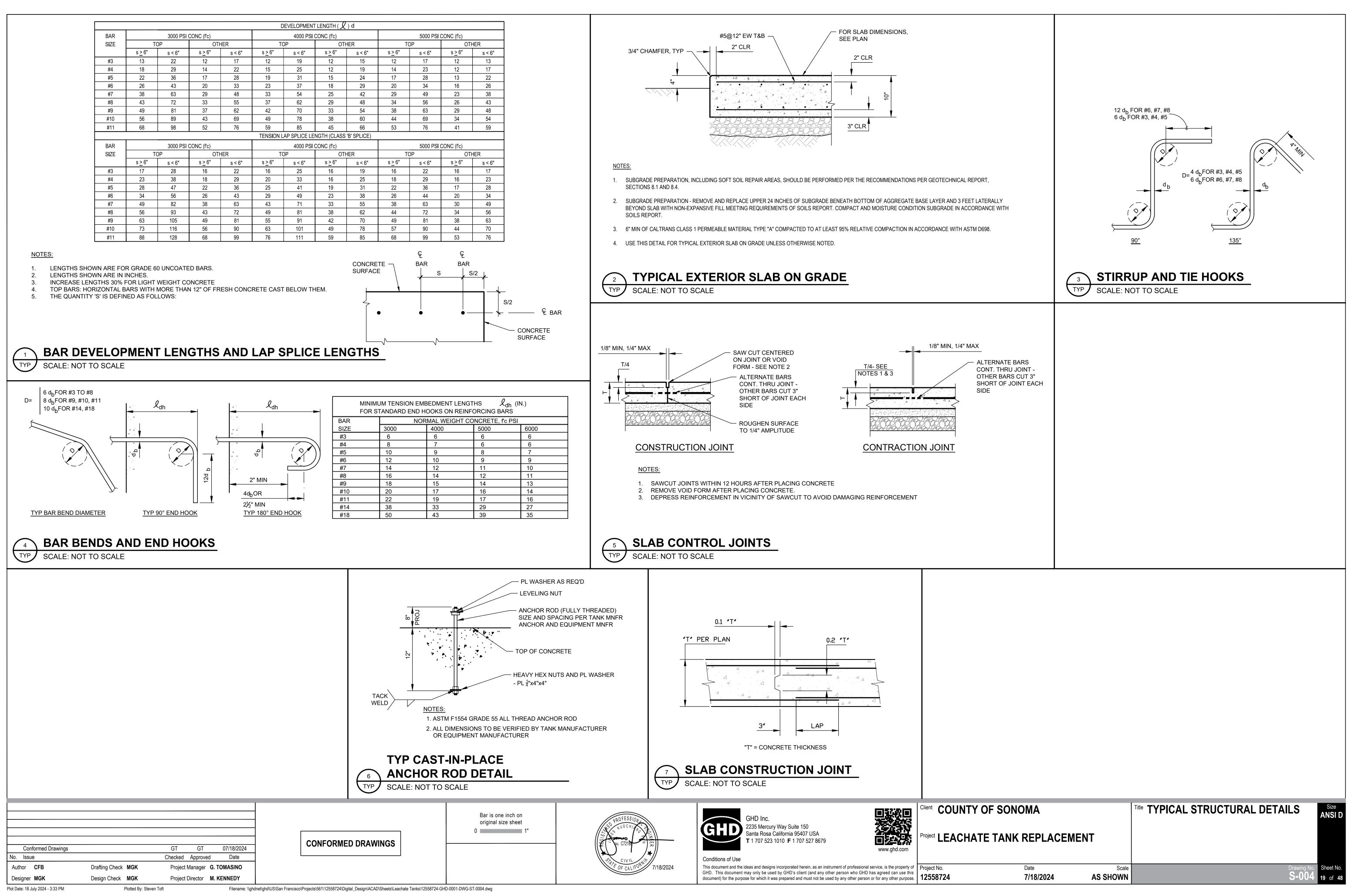
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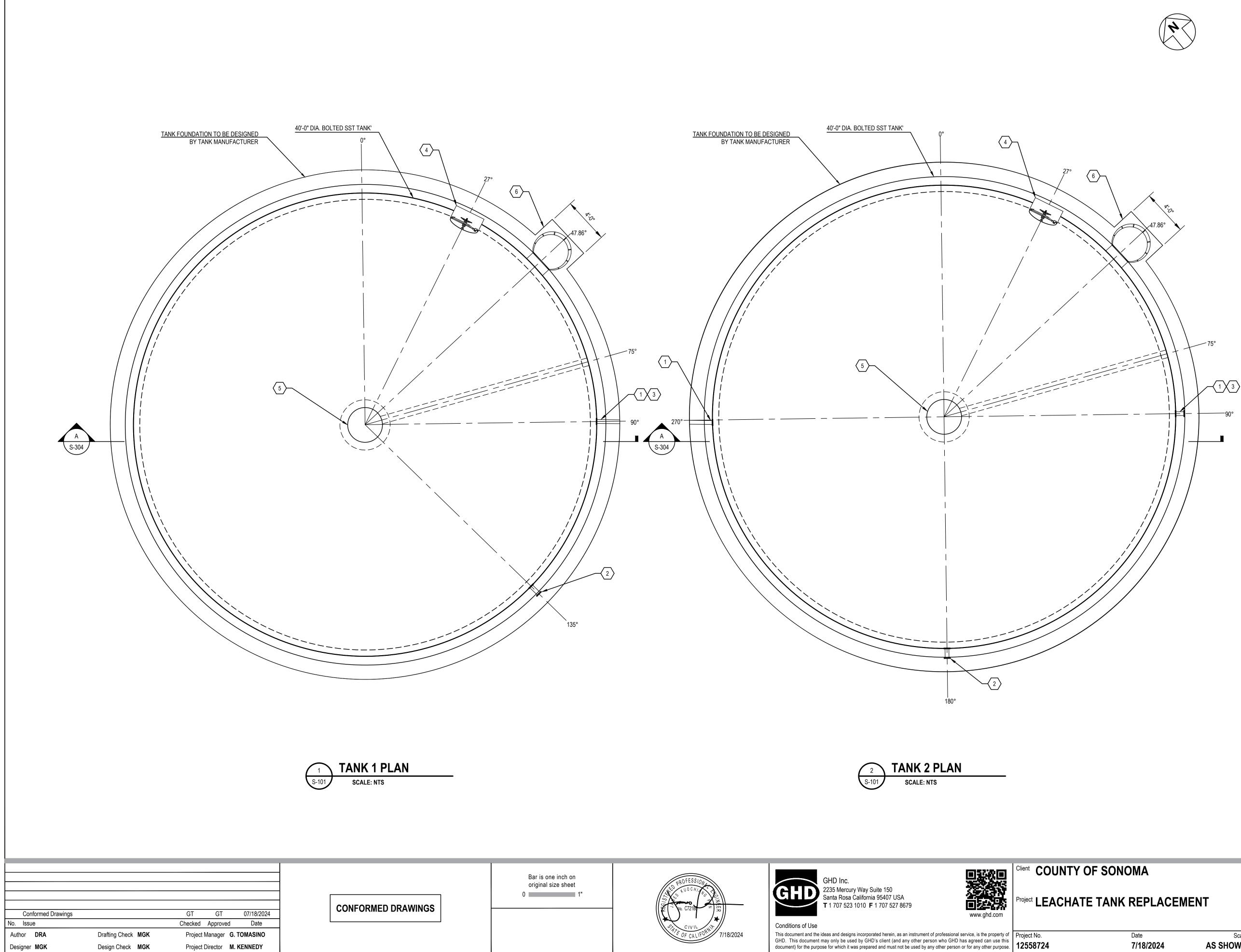
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ITEM 1:	VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY.	AGENCY # (QUALIF.): PE/GE
ITEM 2:	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	AGENCY # (QUALIF.): PE/GE
ITEM 3:	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. PERFORM SIEVE TESTS (ASTM D422 & D1140); ATTERBERG LIMIT TEST (ASTM D4318) AND MODIFIED PROCTOR TESTS (ASTM D1557) OF EACH SOURCE OF FILL MATERIAL.	AGENCY # (QUALIF.): PE/GE
ITEM 4:	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. TEST DENSITY OF EACH LIFT OF FILL BY NUCLEAR METHODS (ASTM D6938) OR SAND CONE (ASTM D1556). VERIFY EX PLACEMENT. VERIFY COMPACTION OF FILL AND BACK PERCENT OF ASTM D 1557. TEST EACH LIFT AT RANDOI LOCATIONS EVERY 1000 SQUARE FEET OF FILL OR 50 LI CONTINUOUS FOOTING, WHICHEVER IS GREATER. PERI TEST PER ISOLATED FOOTING. PERFORM 3 TEST MININ	FILL MATERIAL TO 95 MLY SELECTED NEAR FOOT OF WALL OR FORM A MINIMUM OF ONE
ITEM 5:	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	AGENCY # (QUALIF.): PE/GE

OF SC	ONOMA		Title STATEMENT OF SPECIAL INSPECTONS	Siz ANS	
ETA	NK REPLACEN	IENT			
	Date <b>7/18/2024</b>	Scale AS SHOWN		Drawing No. Sheet <b>S-003</b> 18 of	





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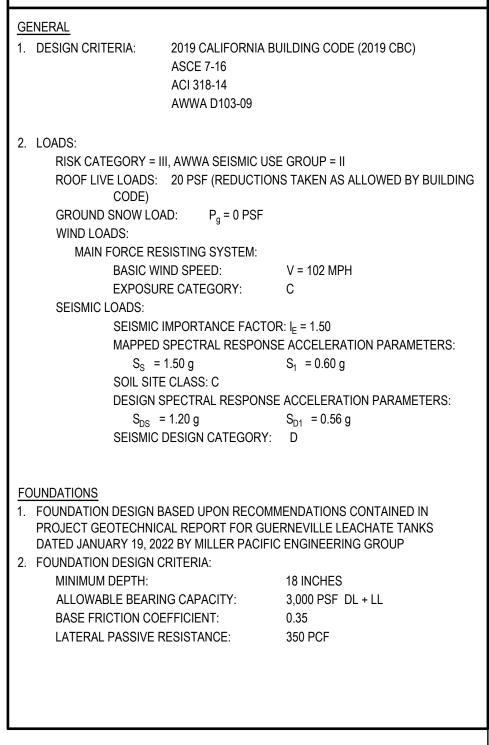
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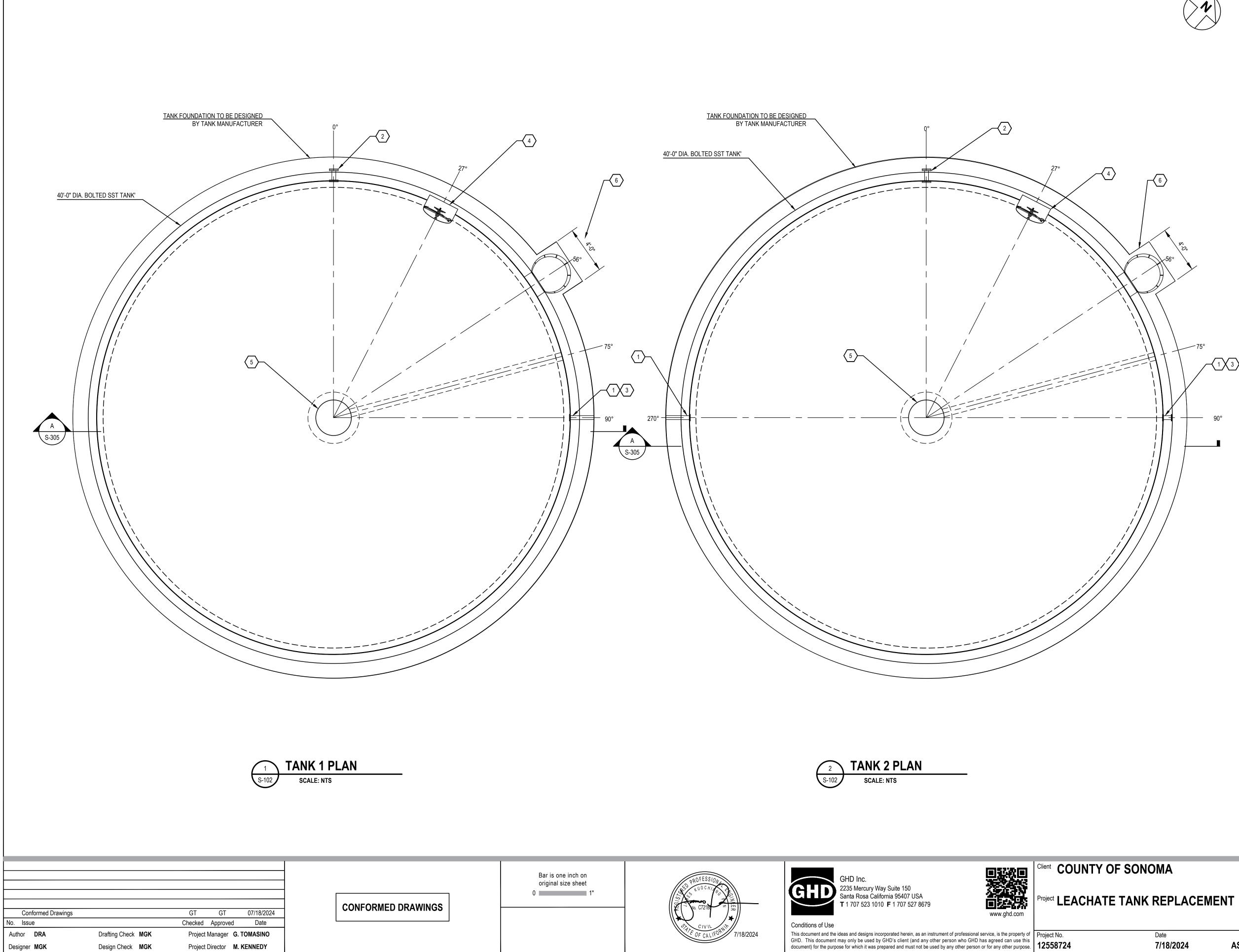
## **KEYNOTES**

- 1. (N) 2" SST INFLUENT/FILL
- 2. (N) 4" SST DISCHARGE/ DRAIN
- 3. (N) LIQUID LEVEL INDICATOR
- 4. (N) 32" MANWAY
- 5. (N) DRAIN SUMP
- 6. (N) BOTTOM LANDING

### SHEET NOTES



OF SONOMA		Title TANK FOUNDATION PLAN - GUERNEVILLE SITE		Size ANSI D
E TANK REPLACEMENT				
Date	Scale		Drawing No.	Sheet No.
7/18/2024 A	AS SHOWN		S-101	20 of 48



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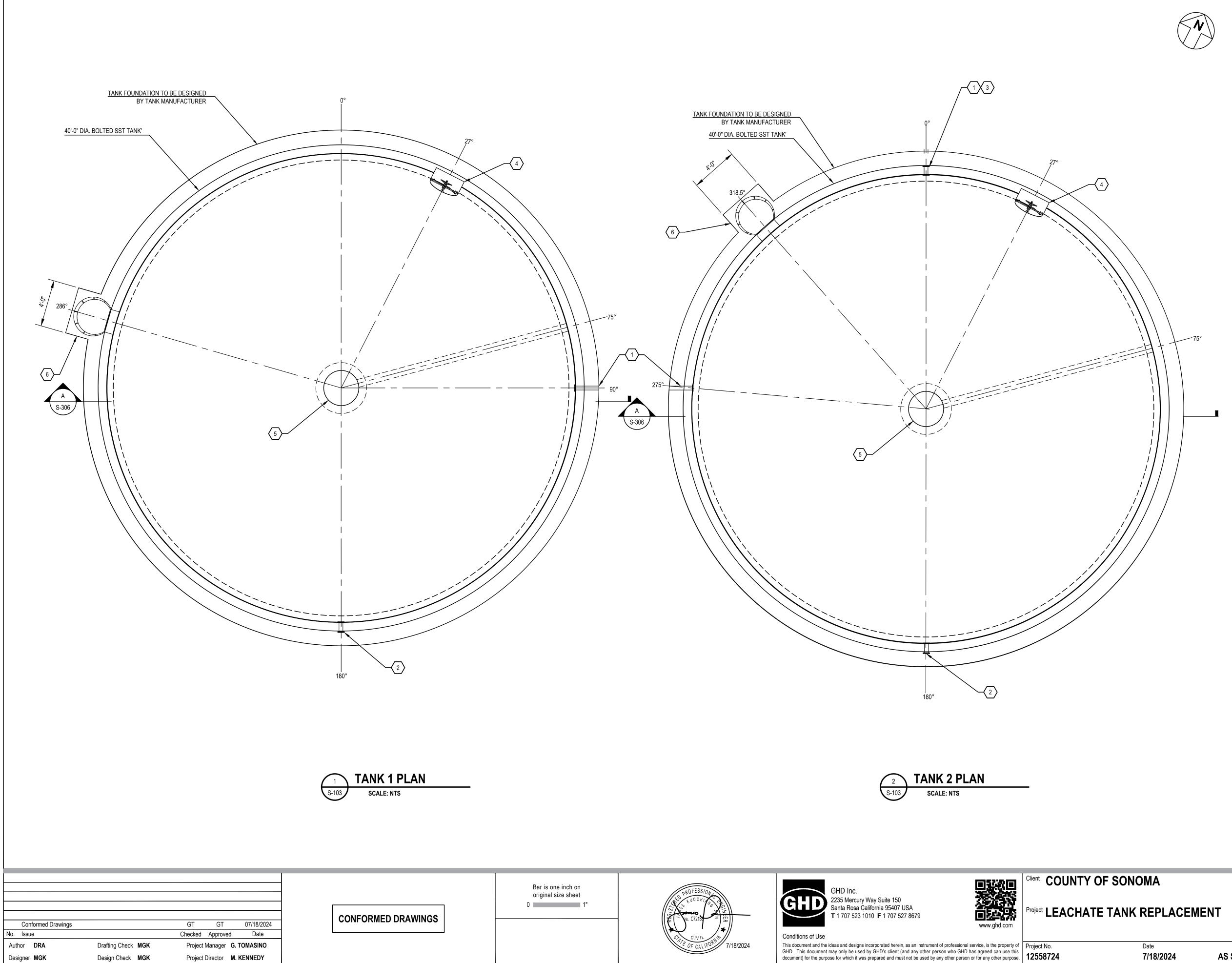
# **KEYNOTES**

- 1. (N) 2" SST INFLUENT/FILL
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- 4. (N) 32" MANWAY
- 5. (N) DRAIN SUMP
- 6. (N) BOTTOM LANDING

### SHEET NOTES

GE	NERAL		
1.	DESIGN CRITERIA:	2019 CALIFORNIA BU ASCE 7-16 ACI 318-14	JILDING CODE (2019 CBC)
		AWWA D103-09	
2.	LOADS:		
		I, AWWA SEISMIC USE	
	ROOF LIVE LOADS: CODE)	20 PSF (REDUCTION	S TAKEN AS ALLOWED BY BUILDING
	GROUND SNOW LOA	D: $P_q = 0 PSF$	
	WIND LOADS:	J. J	
	MAIN FORCE RES	SISTING SYSTEM:	
	BASIC WI	ND SPEED:	V = 102 MPH
	EXPOSUR	E CATEGORY:	С
	SEISMIC LOADS:		
	SEISMIC I	MPORTANCE FACTOR	R: I <sub>E</sub> = 1.50
	MAPPED	SPECTRAL RESPONSI	E ACCELERATION PARAMETERS:
	S <sub>S</sub> =	1.50 g	$S_1 = 0.60 \text{ g}$
	SOIL SITE	CLASS: C	
	DESIGN S	PECTRAL RESPONSE	ACCELERATION PARAMETERS:
	Be	1.20 g	$S_{D1} = 0.56 \text{ g}$
	SEISMIC E	DESIGN CATEGORY:	D
-	DUNDATIONS		
1.			IENDATIONS CONTAINED IN
			LAR LEACHATE TANKS DATED
~	JANUARY 19, 2022 BY M		EERING GROUP
2.	FOUNDATION DESIGN C	RITERIA:	
	MINIMUM DEPTH:		18 INCHES
	ALLOWABLE BEARIN		3,000 PSF DL + LL
	BASE FRICTION COE		0.35
	LATERAL PASSIVE R	ESISTANCE:	350 PCF

F SONC	DMA REPLACEMEN	т	Title TANK FOUNDATION PLAN - ROBLAR SITE		Size ANSI D
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	Date	Scale		Drawing No.	Sheet No.
	7/18/2024	AS SHOWN		<b>S-102</b>	21 of 48



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### **KEYNOTES** $\langle \rangle$

- 1. (N) 2" SST INFLUENT/FILL
- 2. (N) 4" SST DISCHARGE/ DRAIN
- 3. (N) LIQUID LEVEL INDICATOR
- 4. (N) 32" MANWAY
- 5. (N) DRAIN SUMP
- 6. (N) BOTTOM LANDING

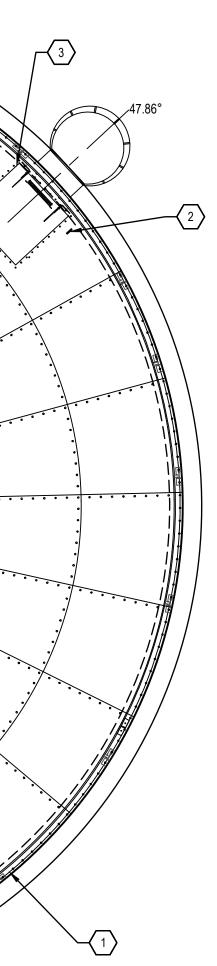
### SHEET NOTES

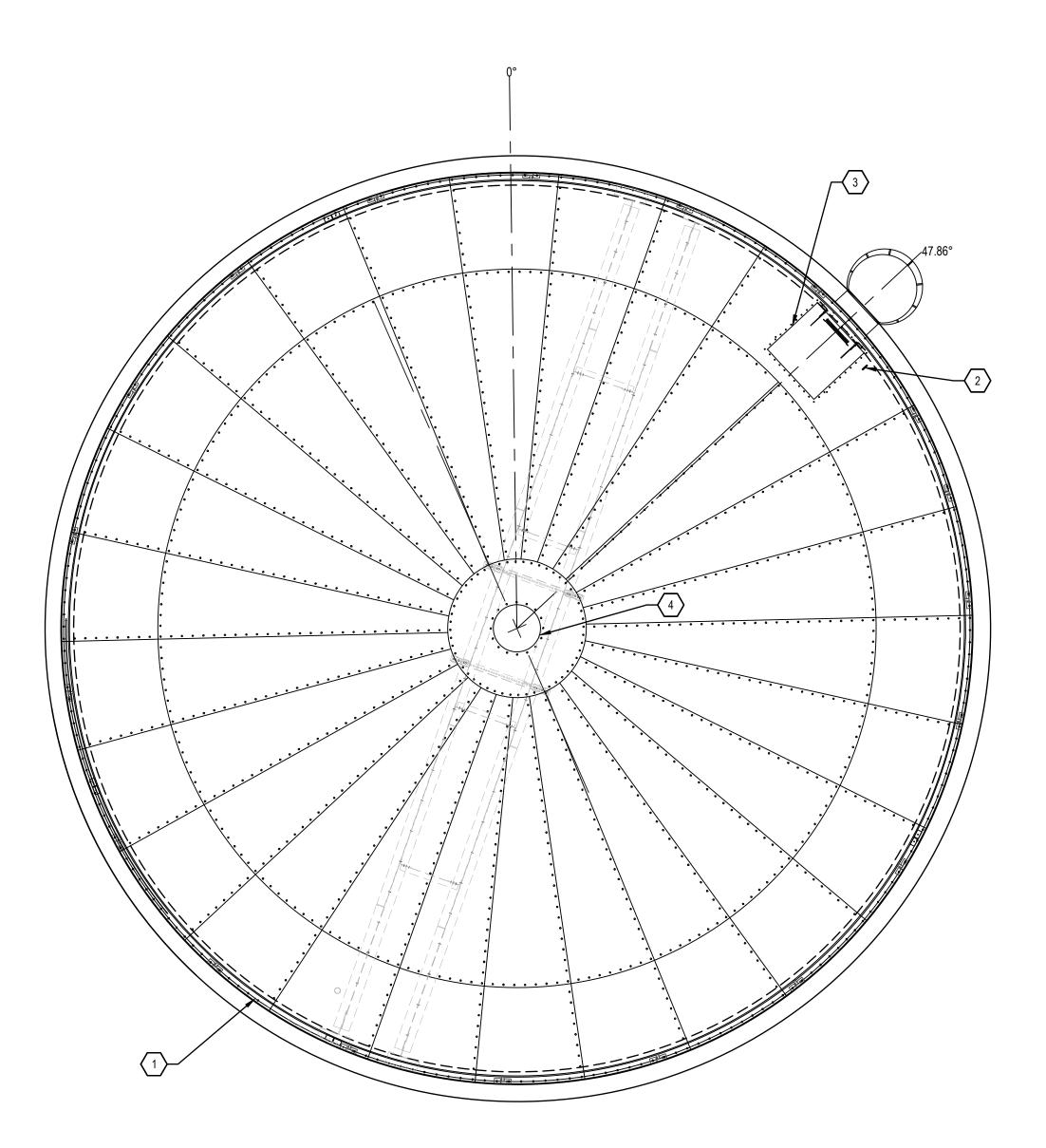
GE	NERAL		
1.	DESIGN CRITERIA:	2019 CALIFORNIA BL ASCE 7-16 ACI 318-14 AWWA D103-09	JILDING CODE (2019 CBC)
2.	ROOF LIVE LOADS: CODE) GROUND SNOW LOA WIND LOADS: MAIN FORCE RES BASIC WIN EXPOSUR SEISMIC LOADS: SEISMIC LOADS: SEISMIC LOADS: SEISMIC I MAPPED S S <sub>S</sub> = 2 SOIL SITE DESIGN S S <sub>DS</sub> =	ND: P <sub>g</sub> = 0 PSF SISTING SYSTEM: ND SPEED: RE CATEGORY: MPORTANCE FACTOF SPECTRAL RESPONSE 2.52 g CLASS: C	S TAKEN AS ALLOWED BY BUILDING V = 102 MPH C
1.		AL REPORT FOR SON ILLER PACIFIC ENGINI RITERIA: IG CAPACITY: :FFICIENT:	IENDATIONS CONTAINED IN OMA LEACHATE TANKS DATED EERING GROUP 18 INCHES 3,000 PSF DL + LL 0.35 350 PCF

OF SON( E TANK	DMA REPLACEMEN	NT	Title TANK FOUNDATION PLAN - SONOMA SITE		Size ANSI D
	Date <b>7/18/2024</b>	Scale AS SHOWN	Dr	402	Sheet No. 22 of 48

	TANK 1 ROOF PLAN	
Conformed Drawings       GT       GT       07/18/2024         No.       Issue       Checked       Approved       Date         Author       DRA       Drafting Check       MGK       Project Manager       G. TOMASINO         Designer       MGK       Design Check       MGK       Project Director       M. KENNEDY	CONFORMED DRAWINGS	

Plotted By: Steven Toft







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Project LEACHATE

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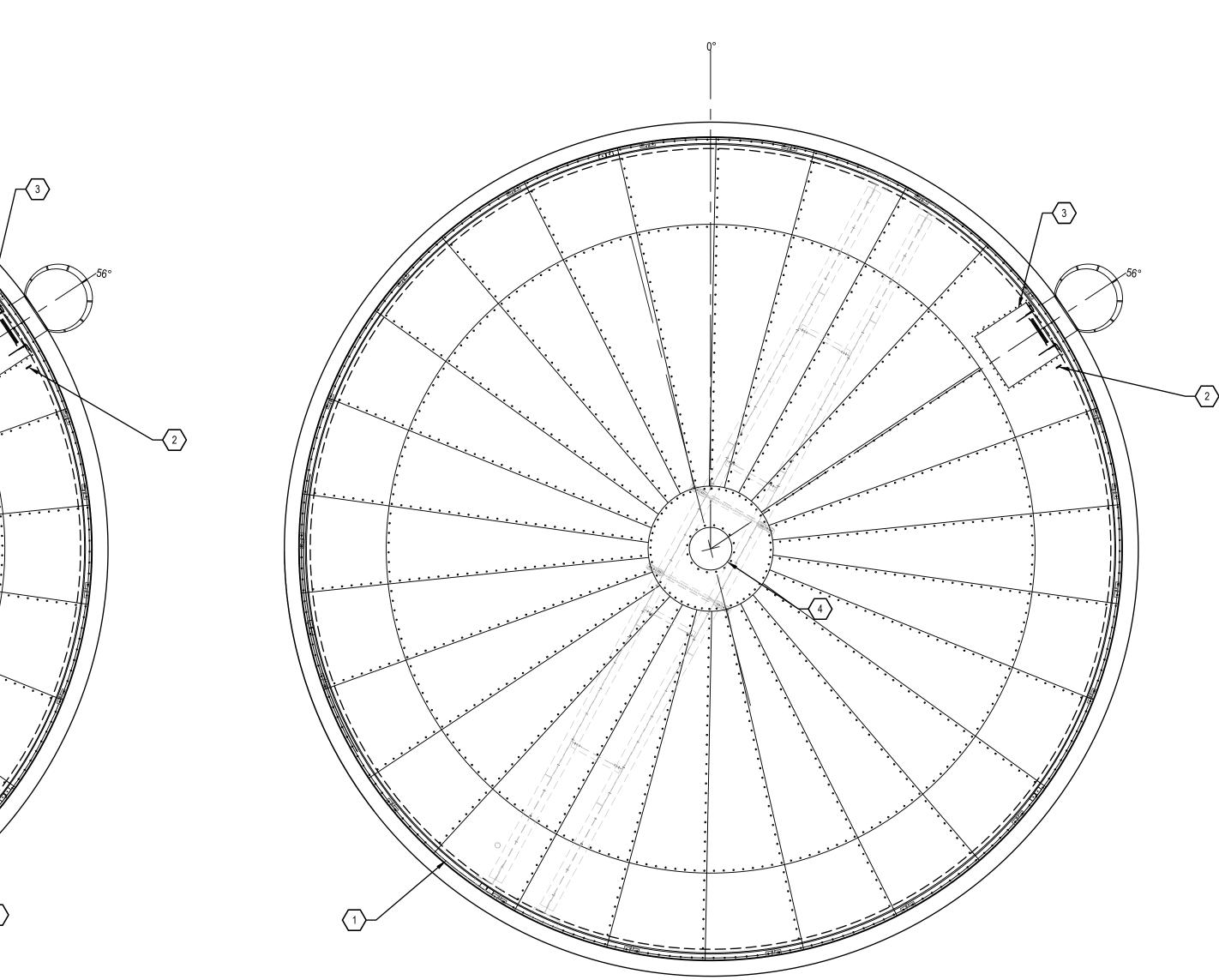
- 1. STAINLESS STEEL PERIMETER GUARDRAIL
- 2. STAINLESS STEEL TIEOFF
- 3. 36" X 36" STAINLESS STEEL ROOF HATCH
- 4. Ø17 1/2" SST ROOF VENT, SEE DETAIL 3/S-503

OF S	ONOMA		Tite TANK ROOF PLAN - GUERNEVILLE SITE	Size ANSI D	
E TANK REPLACEMENT					
	Date	Scale		Drawing No. Sheet No.	
	7/18/2024	AS SHOWN		S-104 23 of 48	

Conformed Drawings	GT GT 07/18/2024
No. Issue	Checked Approved Date
Author DRA	Drafting Check MGK Project Manager G. TOMASINO
Designer MGK	Design Check MGK Project Director M. KENNEDY

Plot Date: 18 July 2024 - 3:39 PM

Plotted By: Steven Toft





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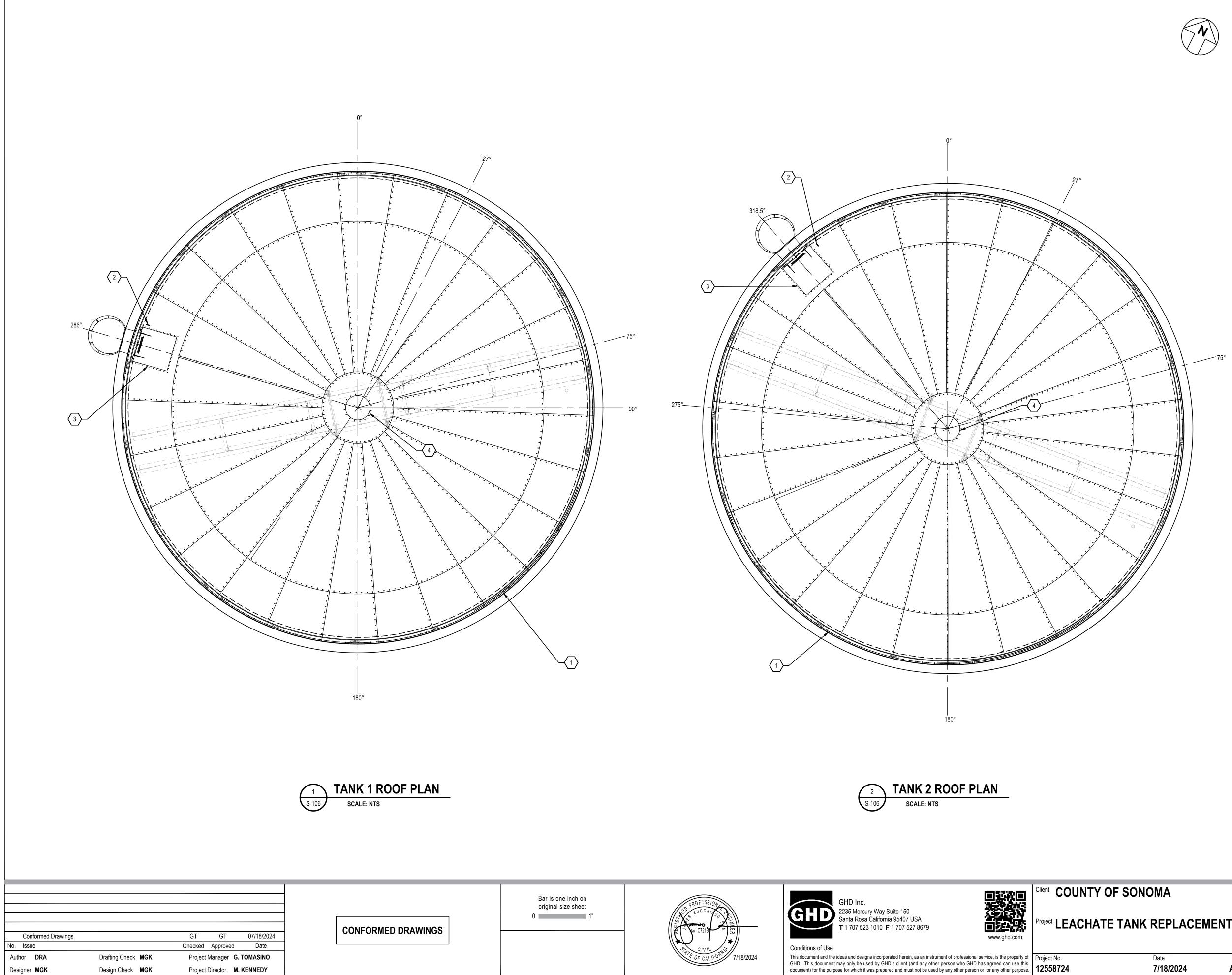
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- 2. STAINLESS STEEL TIEOFF
- 3. 36" X 36" STAINLESS STEEL ROOF HATCH
- 4. Ø17 1/2" SST ROOF VENT, SEE DETAIL 3/S-503

OF S	ONOMA		Title TANK ROOF PLAN - ROBLAR SITE	Size ANSI D
E TA	NK REPLACEN	IENT		
	Date <b>7/18/2024</b>	Scale AS SHOWN		Drawing No. Sheet No. <b>S-105</b> 24 of 48



Plot Date: 18 July 2024 - 3:40 PM

Plotted By: Steven Toft

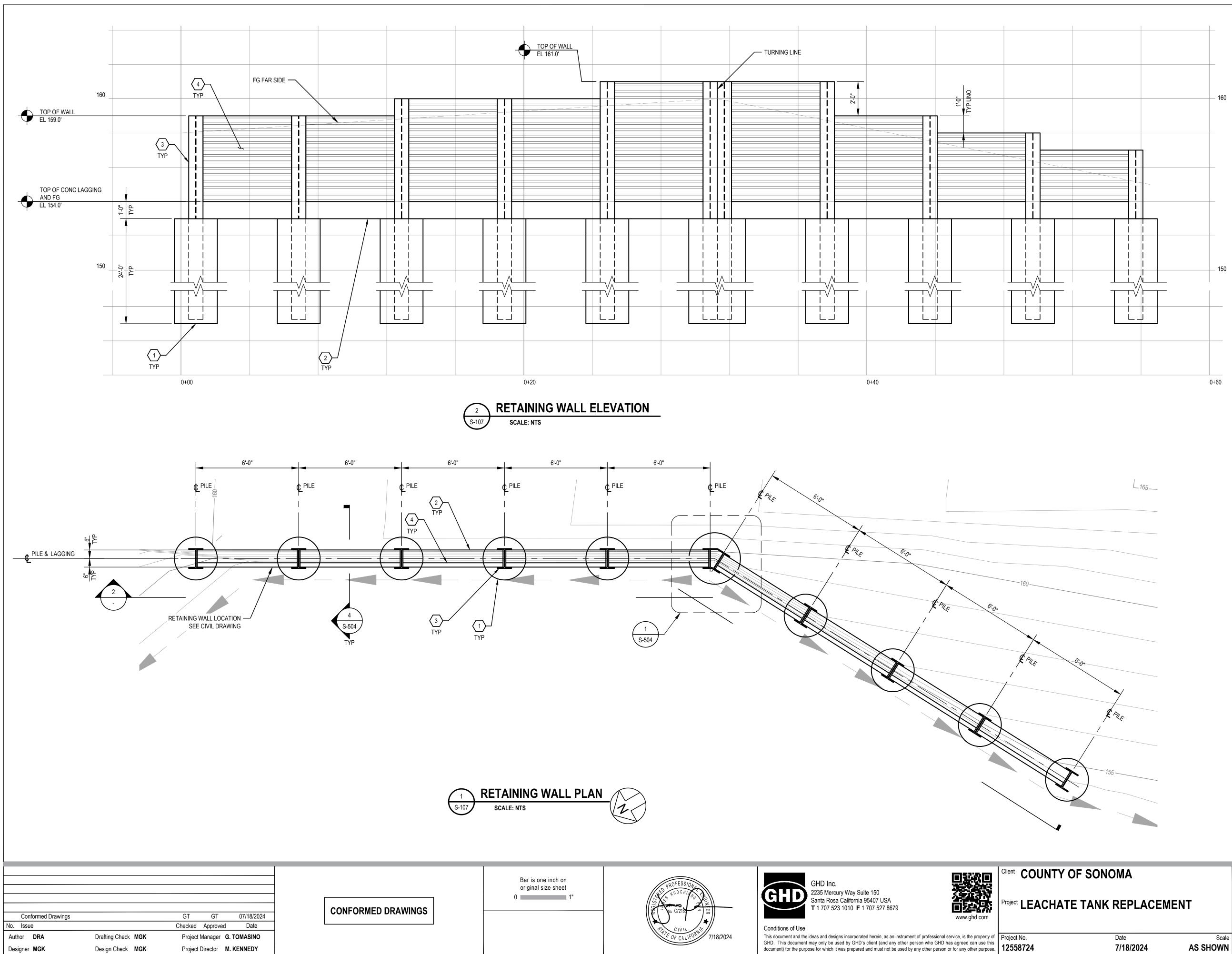
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- 1. STAINLESS STEEL PERIMETER GUARDRAIL
- 2. STAINLESS STEEL TIEOFF
- 3. 36" X 36" STAINLESS STEEL ROOF HATCH
- 4. Ø17 1/2" SST ROOF VENT, SEE DETAIL 3/S-503

OF SO	ONOMA		<sup>Title</sup> TANK ROOF PLAN - SONOMA SITE	Size ANSI D
E TA	NK REPLACEN	IENT		
	Date <b>7/18/2024</b>	Scale AS SHOWN		Drawing No. Sheet No. <b>S-106</b> 25 of 48



Plot Date: 18 July 2024 - 3:41 PM

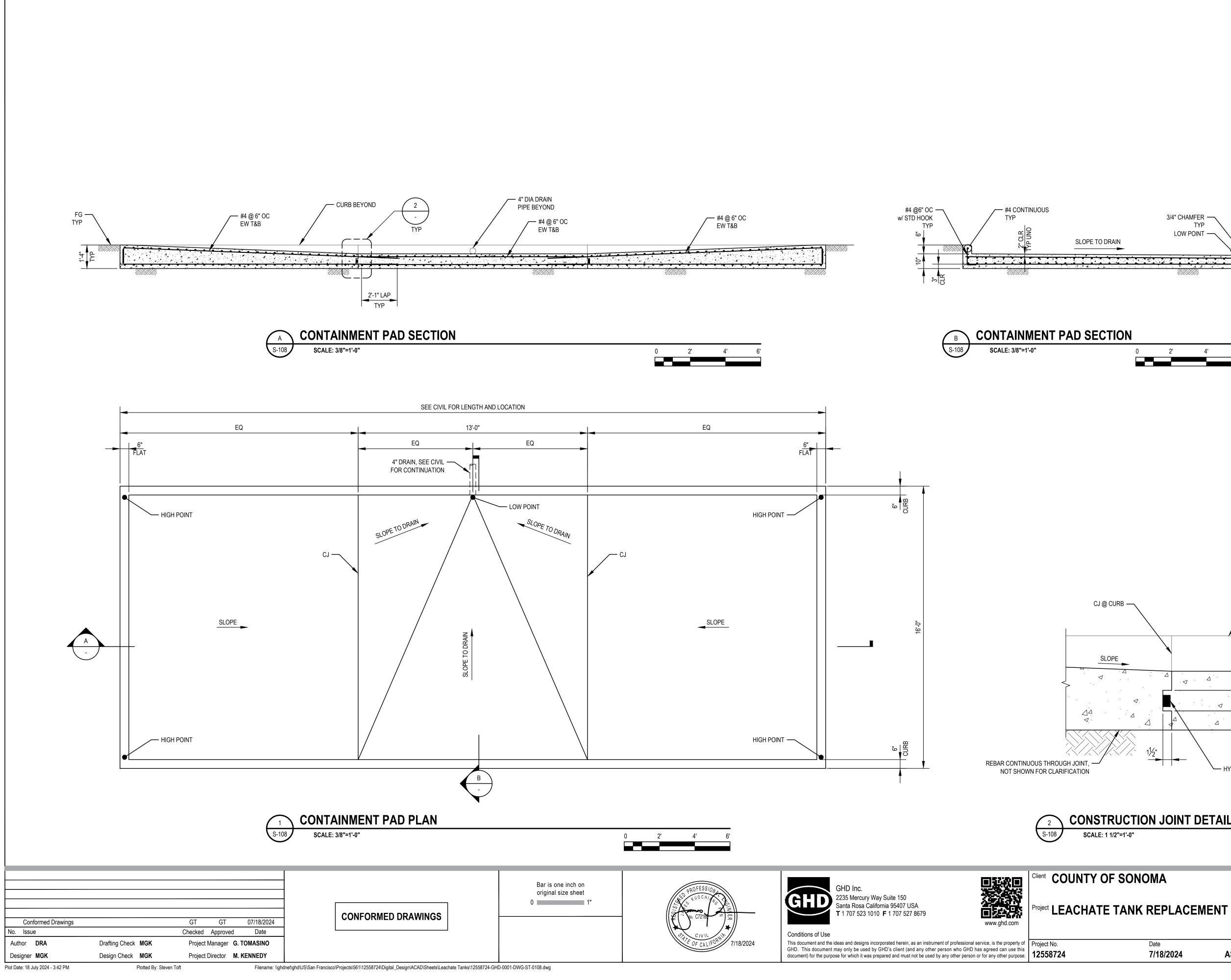
Plotted By: Steven Toft

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Size ANSI D **PLAN & ELEVATION - ROBLAR SITE** Scale S-107 7/18/2024 AS SHOWN **26** of **48** 

### **KEYNOTES**

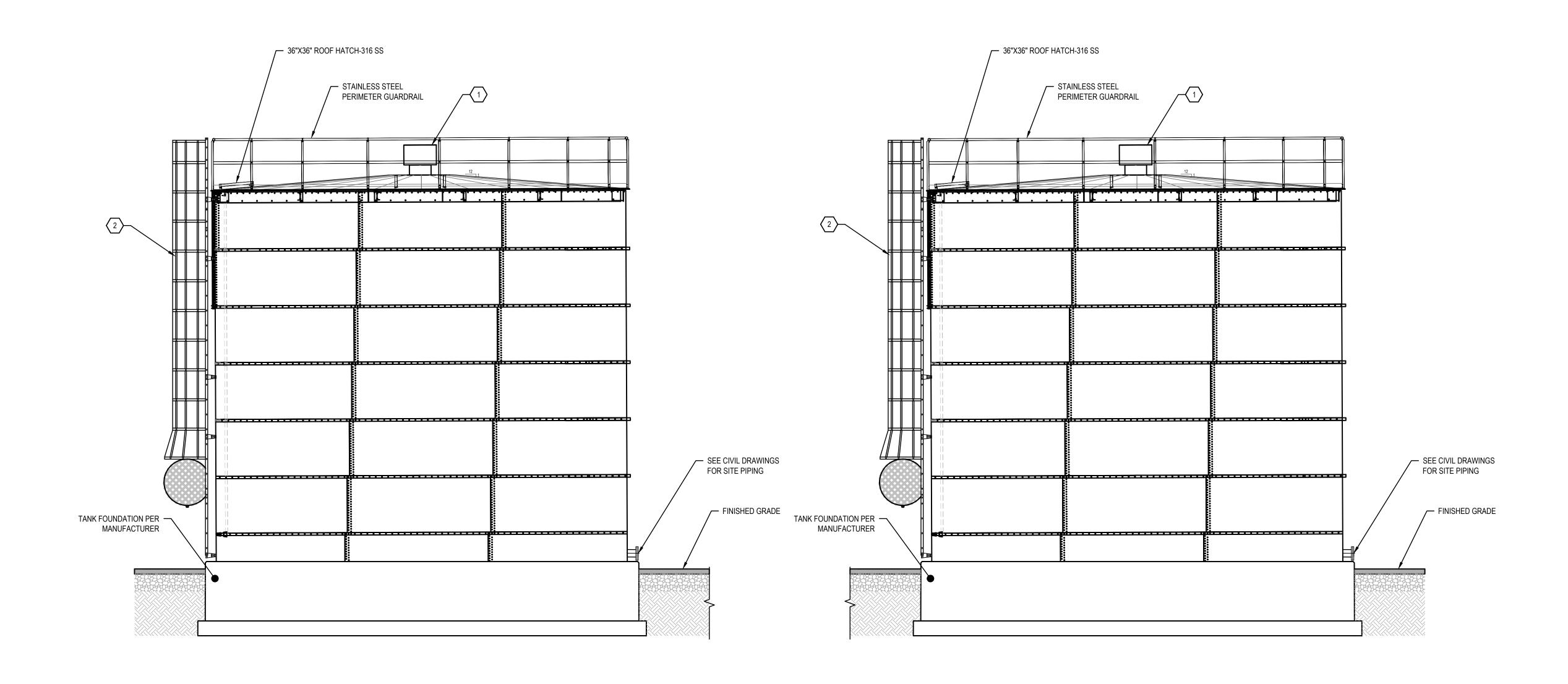
- 1. CAST-IN DRILLED HOLE CONCRETE, SEE DETAIL 4/S-504
- 2. PRE-CAST LAGGING, SEE DETAIL 3/S-504
- 3. W14x61 STEEL SOLDIER PILE, SEE DETAIL 4/S-504
- 4. METAL DECK LAGGING, SEE DETAIL4/S-504



# — FG TYP - 4" DRAIN, SEE CIVIL 3/4" CHAMFER -FOR CONTINUATION TYP LOW POINT -2' 4' 6' 0 - CURB BEYOND Δ. 344 Δ · 🗸 . ⊲. Δ $\Delta$ HYDROPHILIC WATERSTOP **CONSTRUCTION JOINT DETAIL** 1/2' 1' 1 1/2' 0 Size ANSI D **PLAN & SECTIONS - ALL SITES** roject LEACHATE TANK REPLACEMENT Date Scale heet No **S-1**( AS SHOWN 7/18/2024

SHEET NOTES

1. FOR CONTAINMENT PAD LOCATION, SEE CIVIL SHEETS

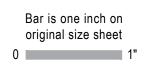


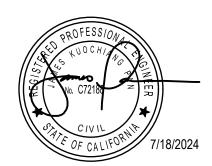
TANK 1 ELEVATION S-301 SCALE: NTS

			07/40/2024	CONFORMED DRAWINGS	Bar is origina 0
Conformed Drawings No. Issue		GT GT Checked Approve	07/18/2024 d Date		
Author <b>DRA</b>	Drafting Check MGK	Project Manager		1	
Designer MGK	Design Check MGK	Project Director	M. KENNEDY		
Plot Date: 18 July 2024 - 3:43 PM	Plotted By: Steven	Toft	Filename: \\gh	dnet\ghd\US\San Francisco\Projects\561\12558724\Digital_Design\ACAD\Sheets\Leachate Tanks\12558724-GH	D-0001-DWG-ST-0301.dwg

.

**TANK 2 ELEVATION** 2 S-301 SCALE: NTS







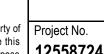
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roject LEACHATE

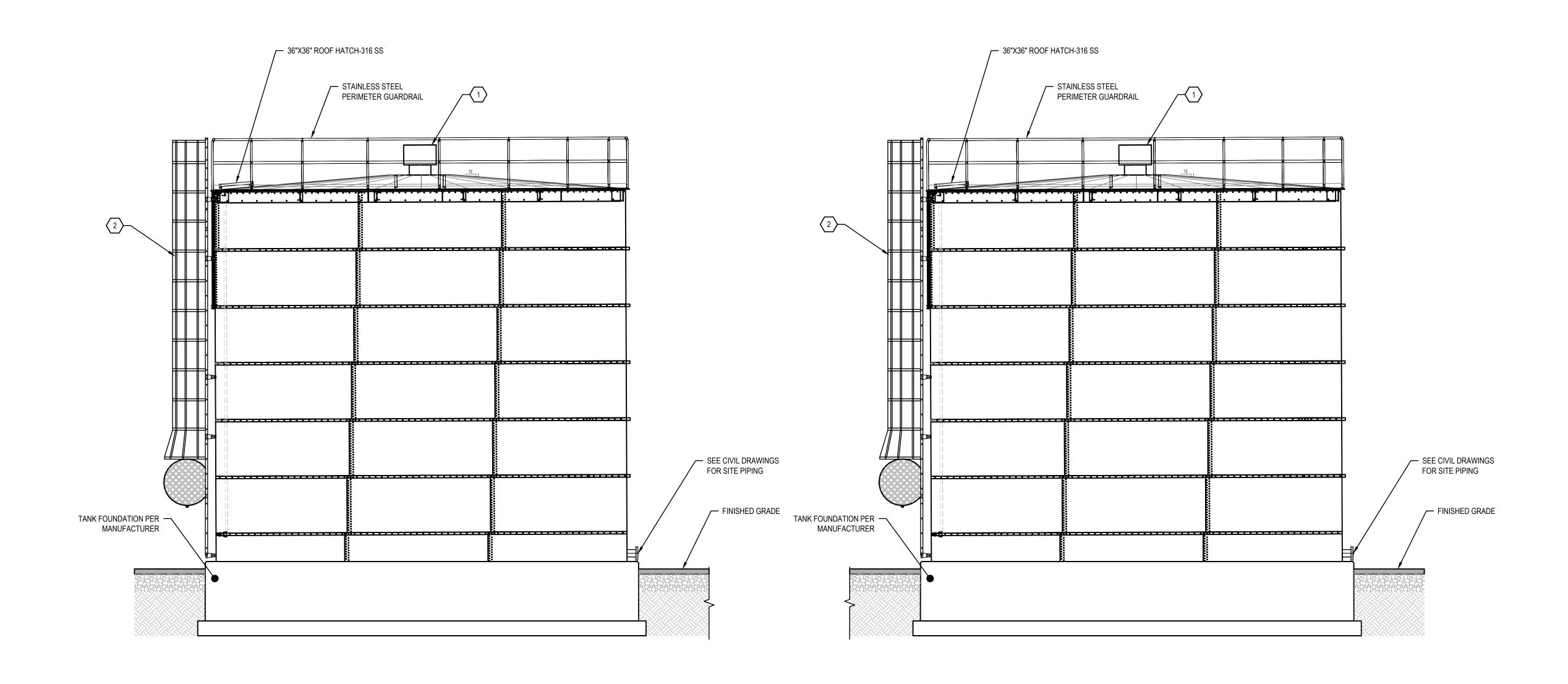
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### $\bigcirc$ **KEYNOTES**

- 1. Ø17 1/2" SST ROOF VENT, SEE DETAIL 3/S-503
- 2. LADDER W/ SAFETY CAGE-316 SS

OF SONOMA	Title TANK ELEVATION AND SECTION -	Size
E TANK REPLACEMENT	GUERNEVILLE SITE	ANSI D
Date         Scale           7/18/2024         AS SHOWN	Drawing No. <b>S-301</b>	Sheet No. 28 of 48

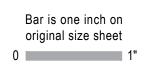


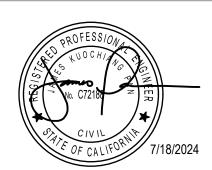
TANK 1 ELEVATION S-302 SCALE: NTS

				CONFORMED DRAWINGS	Baris origina 0
Conformed Drawings		GT GT	07/18/2024		
No. Issue		Checked Approve	ed Date		
Author <b>DRA</b>	Drafting Check MGK	Project Manager	G. TOMASINO		
Designer <b>MGK</b>	Design Check MGK	Project Director	M. KENNEDY		
Plot Date: 18 July 2024 - 3:44 PM	Plotted By: Steven	Toft	Filename: \\gh	ldnet\ghd\US\San Francisco\Projects\561\12558724\Digital_Design\ACAD\Sheets\Leachate Tanks\12558724-GH	D-0001-DWG-ST-0302.dwg

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**TANK 2 ELEVATION** 2 S-302 SCALE: NTS







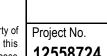
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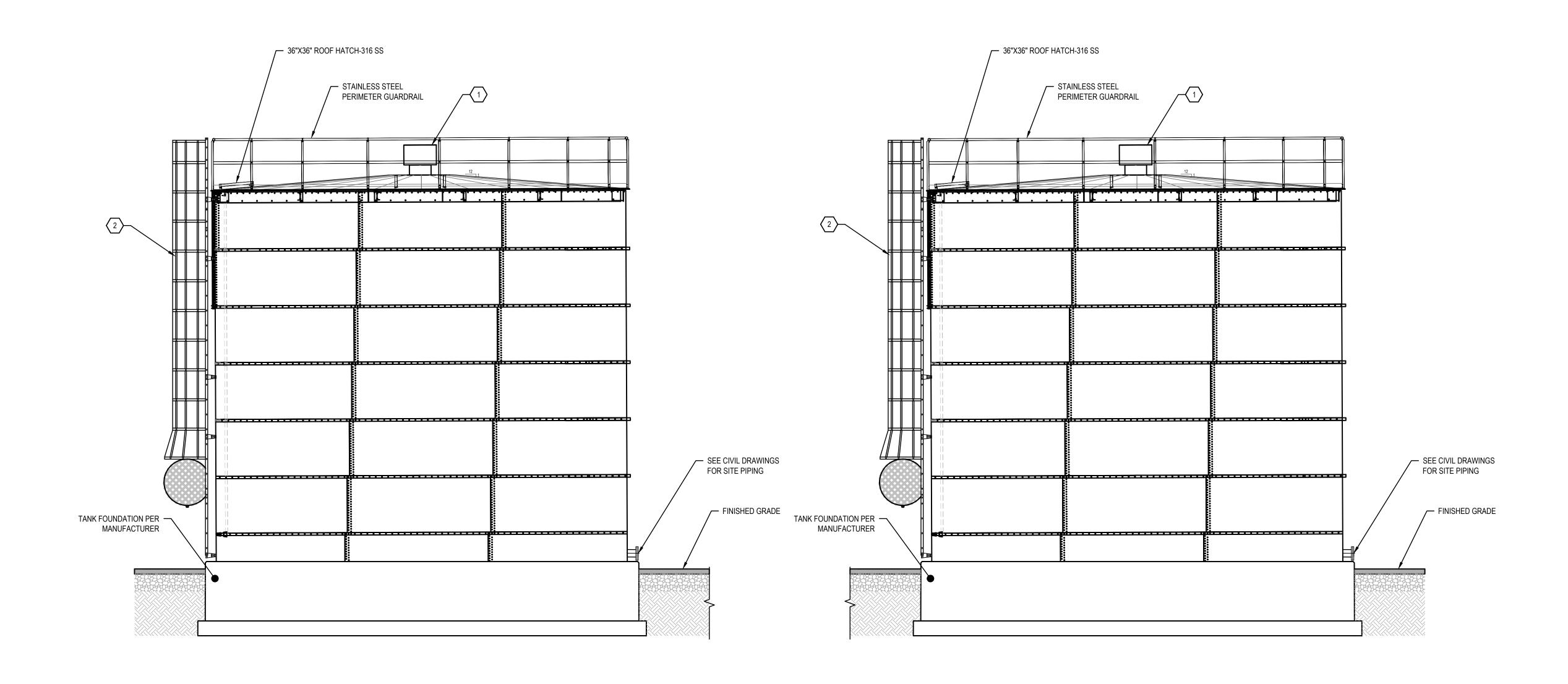
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### $\bigcirc$ **KEYNOTES**

- 1. Ø17 1/2" SST ROOF VENT, SEE DETAIL 3/S-503
- 2. LADDER W/ SAFETY CAGE-316 SS

 ONOMA NK REPLACEN	IENT	Title TANK ELEVATION AND SECTION - ROBLAR SITE	Size ANSI D
Date	Scale	Drawing No.	Sheet No.
<b>7/18/2024</b>	AS SHOWN	S-302	29 of 48



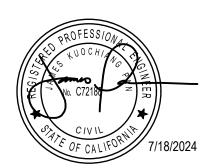
TANK 1 ELEVATION S-303 SCALE: NTS

			07/40/2024	CONFORMED DRAWINGS	Bar is origina 0
Conformed Drawings No. Issue		GT GT Checked Approve	07/18/2024 d Date		
Author <b>DRA</b>	Drafting Check MGK	Project Manager			
Designer MGK	Design Check MGK	Project Director	M. KENNEDY		
Plot Date: 18 July 2024 - 3:45 PM	Plotted By: Steven	Toft	Filename: \\gh	dnet\ghd\US\San Francisco\Projects\561\12558724\Digital_Design\ACAD\Sheets\Leachate Tanks\12558724-GH	D-0001-DWG-ST-0303.dwg

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**TANK 2 ELEVATION** 2 S-303 SCALE: NTS

Bar is one inch on original size sheet 0 1"



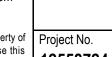


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roject LEACHATE

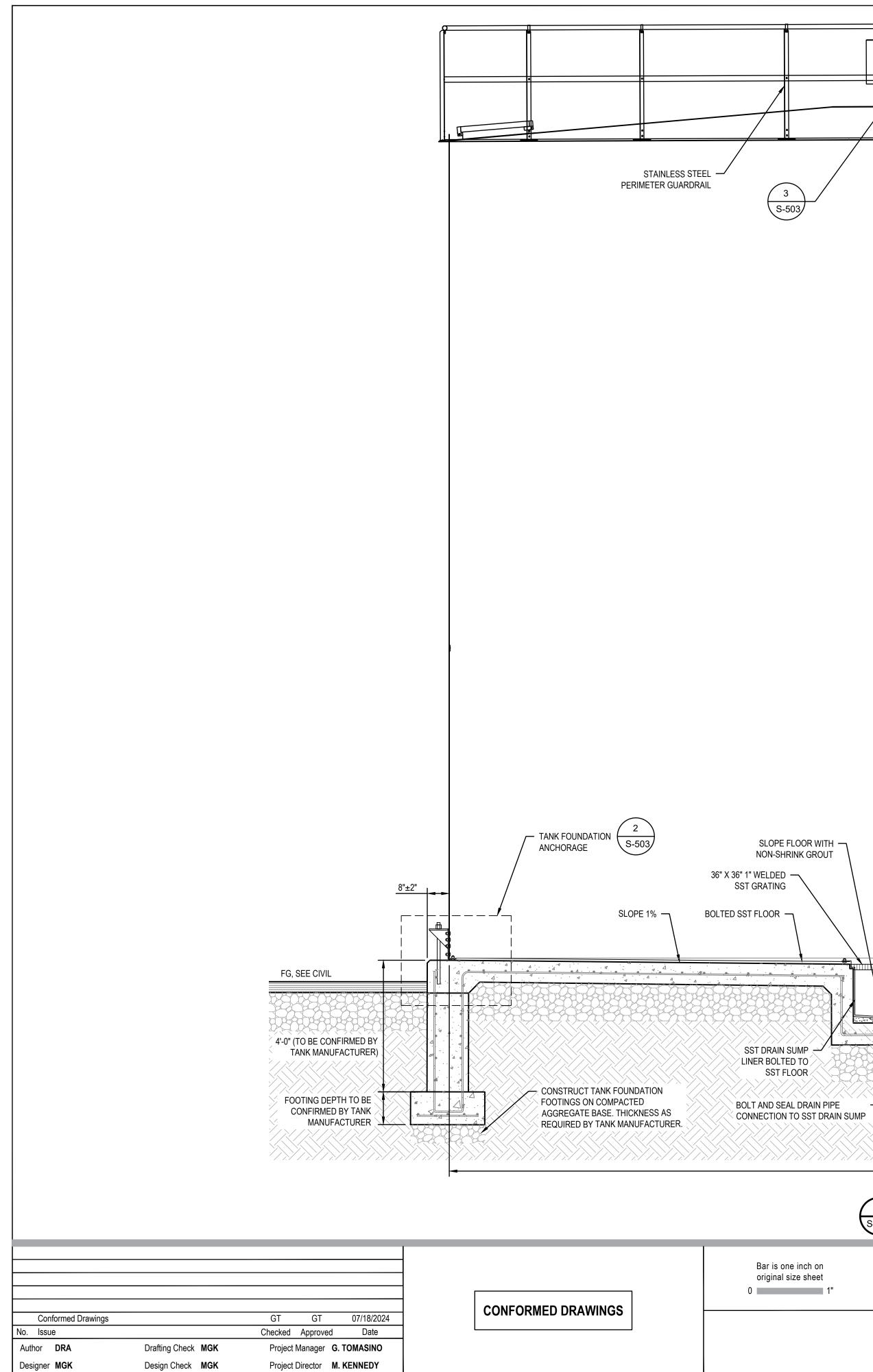
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### $\bigcirc$ **KEYNOTES**

- 1. Ø17 1/2" SST ROOF VENT, SEE DETAIL 3/S-503
- 2. LADDER W/ SAFETY CAGE-316 SS

	Title TANK ELEVATION SONOMA SITE	I AND SECTION - Size ANSI D
E TANK REPLACEMENT		
Date	Scale	Drawing No. Sheet No.
7/18/2024 AS S	HOWN	S-303 30 of 48



Plot Date: 18 July 2024 - 3:46 PM

Plotted By: Steven Toft

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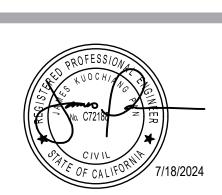
# original size sheet 0 1"

Bar is one inch on

SLOPE FLOOR WITH

NON-SHRINK GROUT

3 S-503



40'-0"

A S-101 - FOUNDATION SUMP



- WATER STOP W/ 2 ROW OF CONSEAL

✓ INVERT ELEV 482.5'

TANK DRAIN AND OVERFLOW SECTION

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<sup>roject</sup> LEACHATE



└─ 4" SST DRAIN PIPE

MAX.=508.18'



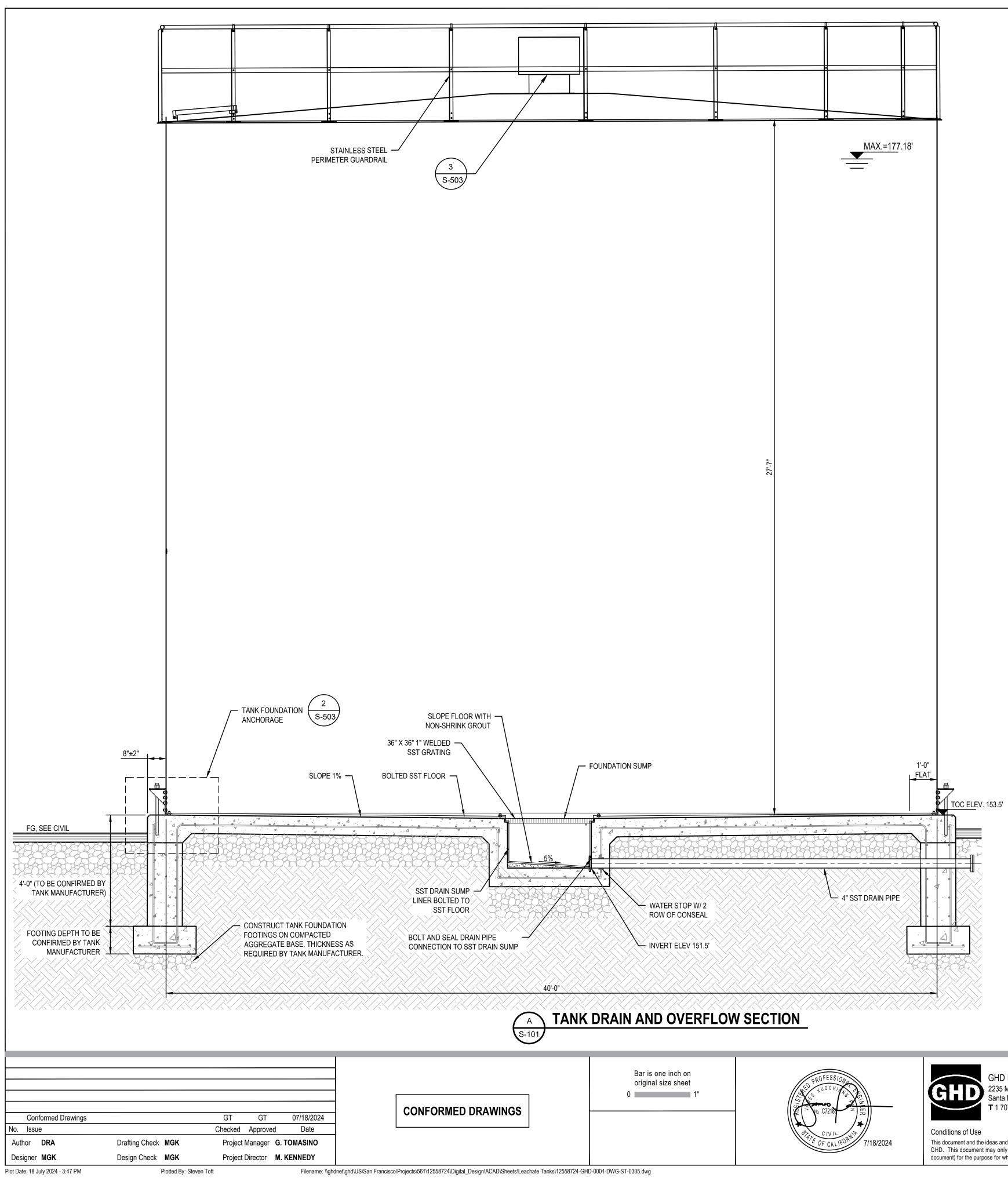
1'-0" FLAT

TOC ELEV. 484.5'

### **GENERAL NOTES**

- 1. FILL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION. WHERE FILL THICKNESS IS GREATER THAN 5 FEET, FILL MATERIAL SHALL BE COMPACTED AT LEAST 92% RELATIVE COMPACTION.
- 2. IN PAVED AREAS, THE UPPER 12 INCHES OF FILL SHALL BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.

OF SON	AMC		Title TANK SECTIONS AND DETAILS - GUERNEVILLE SITE	Size ANSI D
E TANK	REPLACEN	<b>IENT</b>		
		Scale	Drawing No.	Sheet No.
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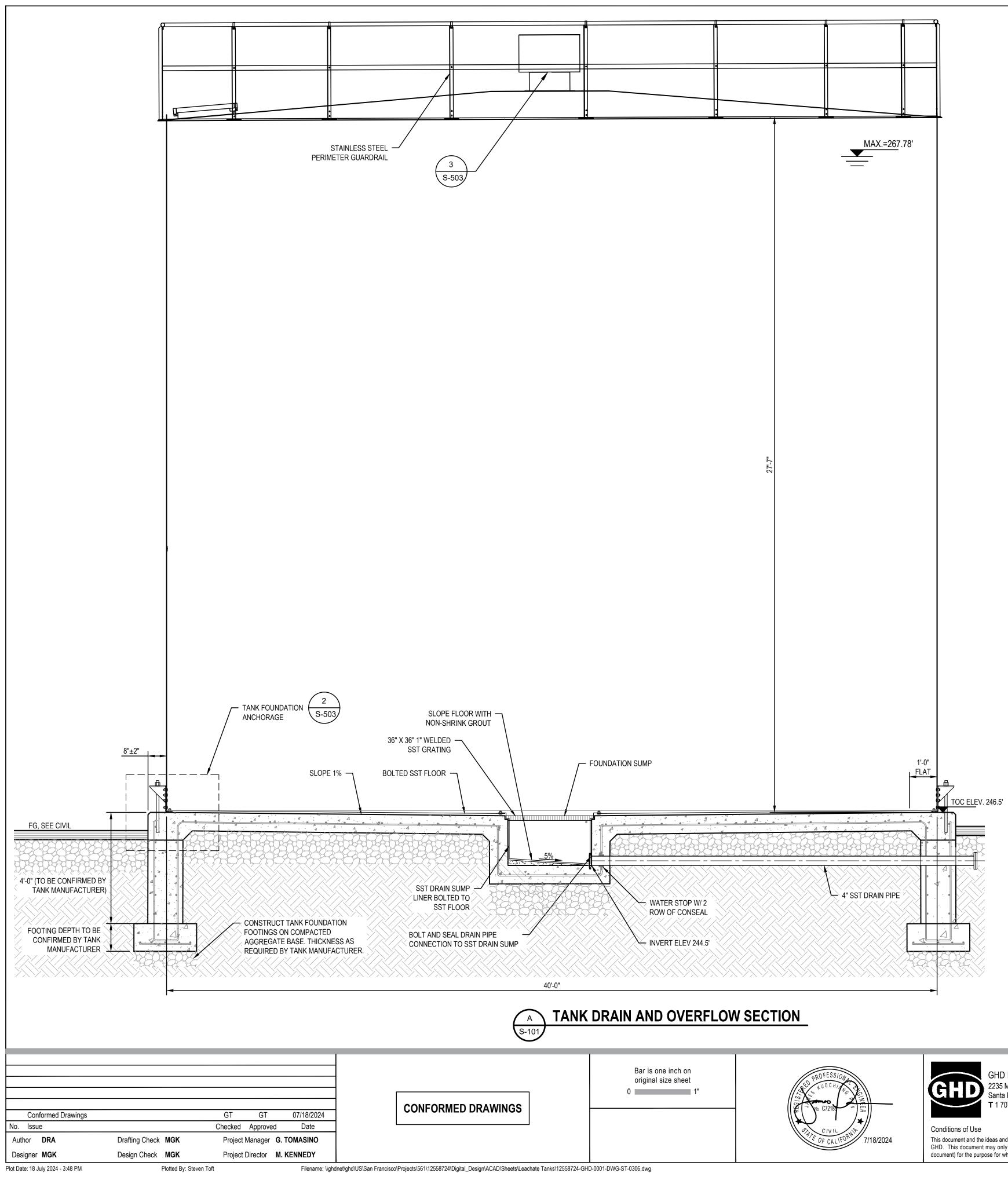
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OF S	ONOMA		Title TANK SECTIONS AND DETAILS - ROBLAR SITE	Size ANSI D
ΈTΑ	NK REPLACEN	<b>IENT</b>		
	Date <b>7/18/2024</b>	Scale AS SHOWN	Drawing No. S-305	Sheet No. <b>32</b> of <b>48</b>



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Client COUNTY O

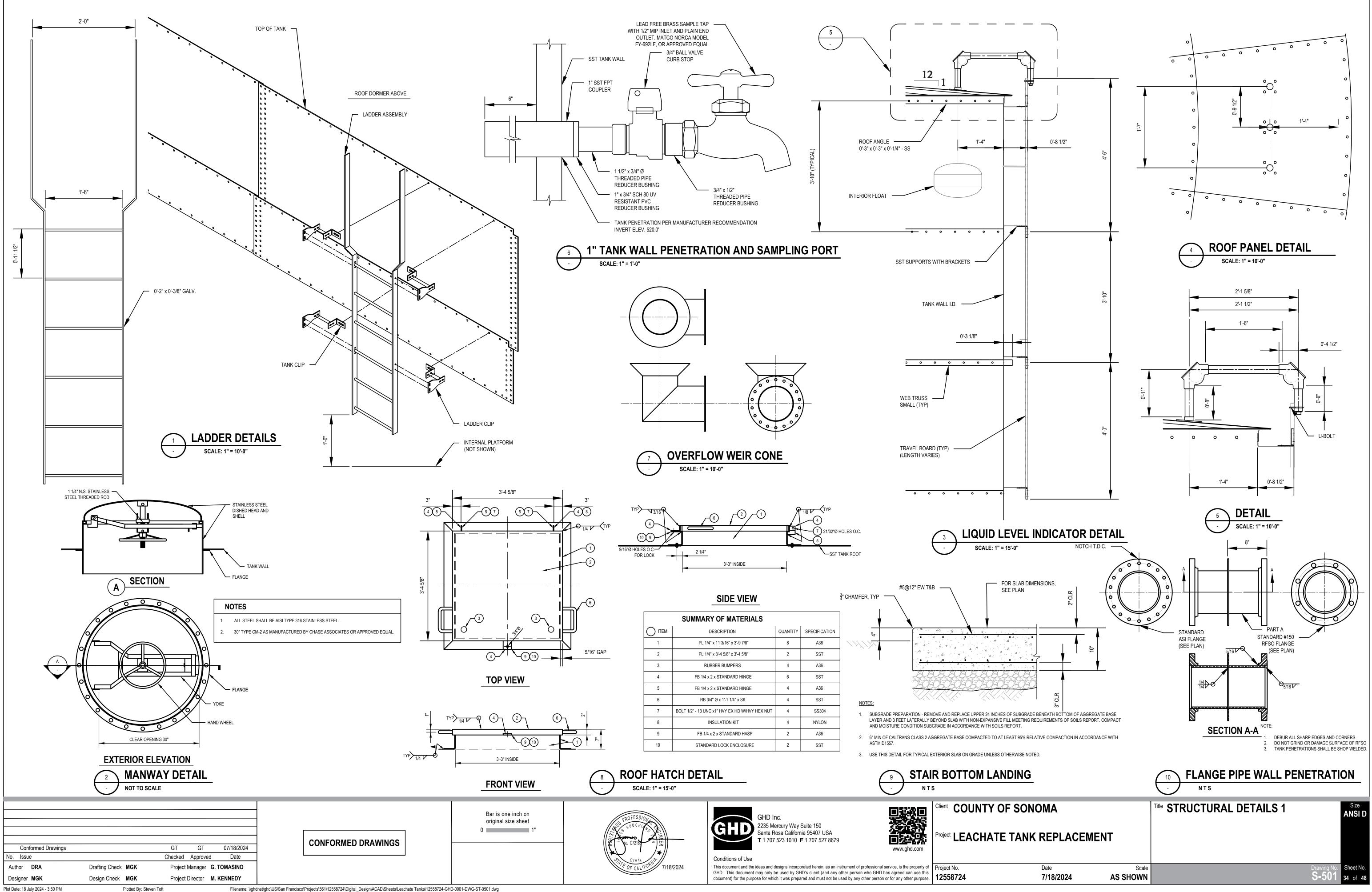
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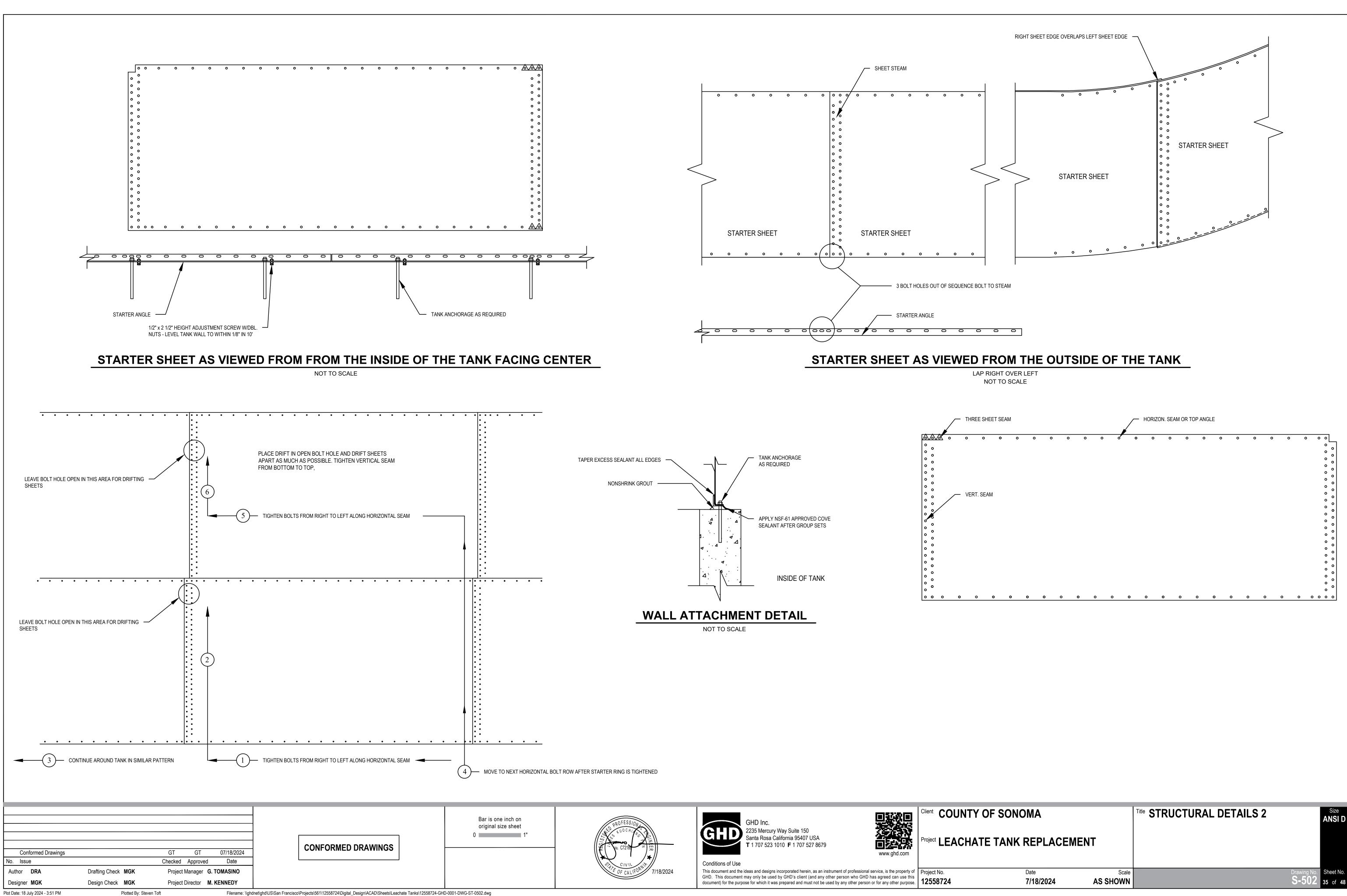
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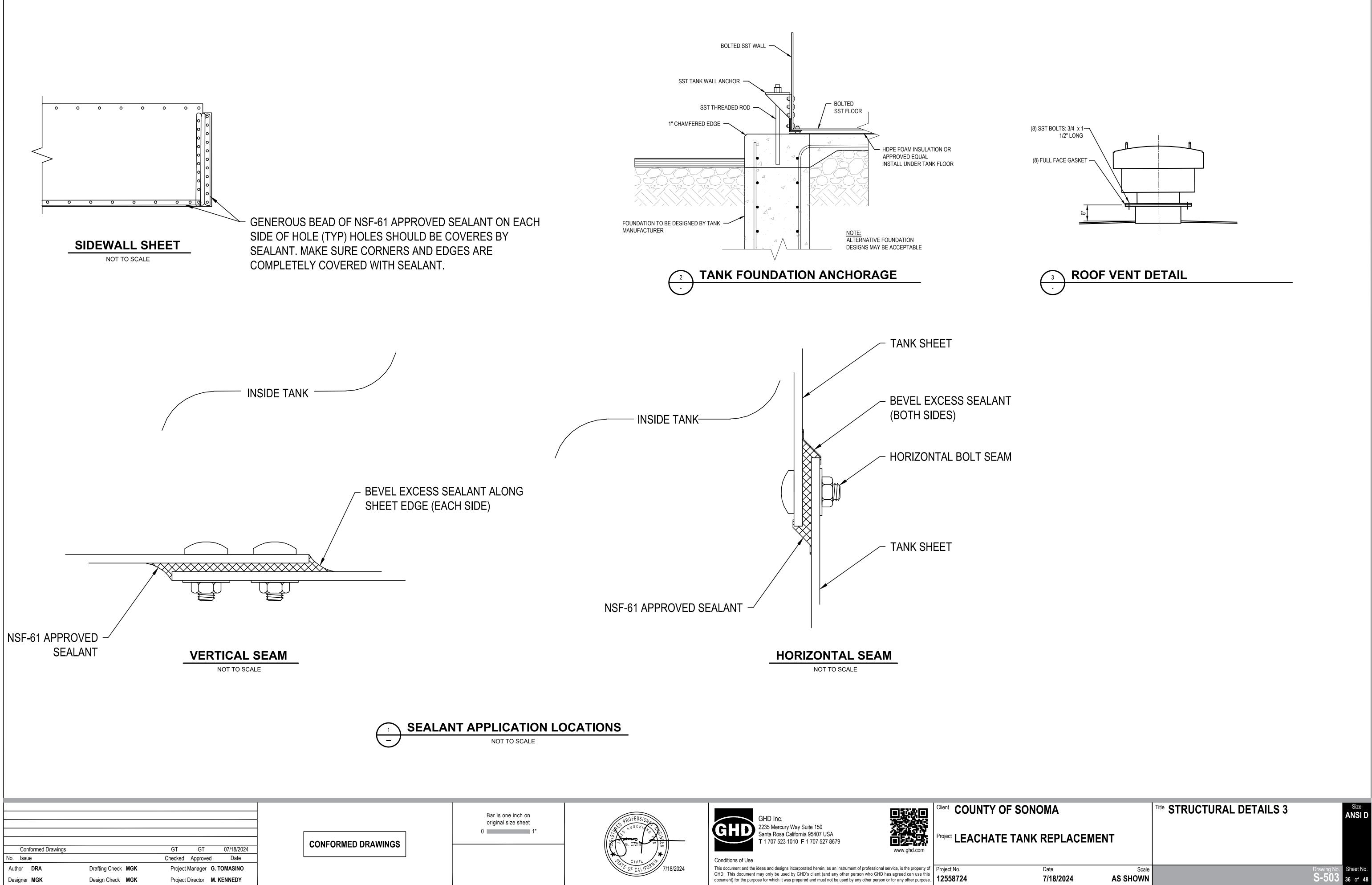
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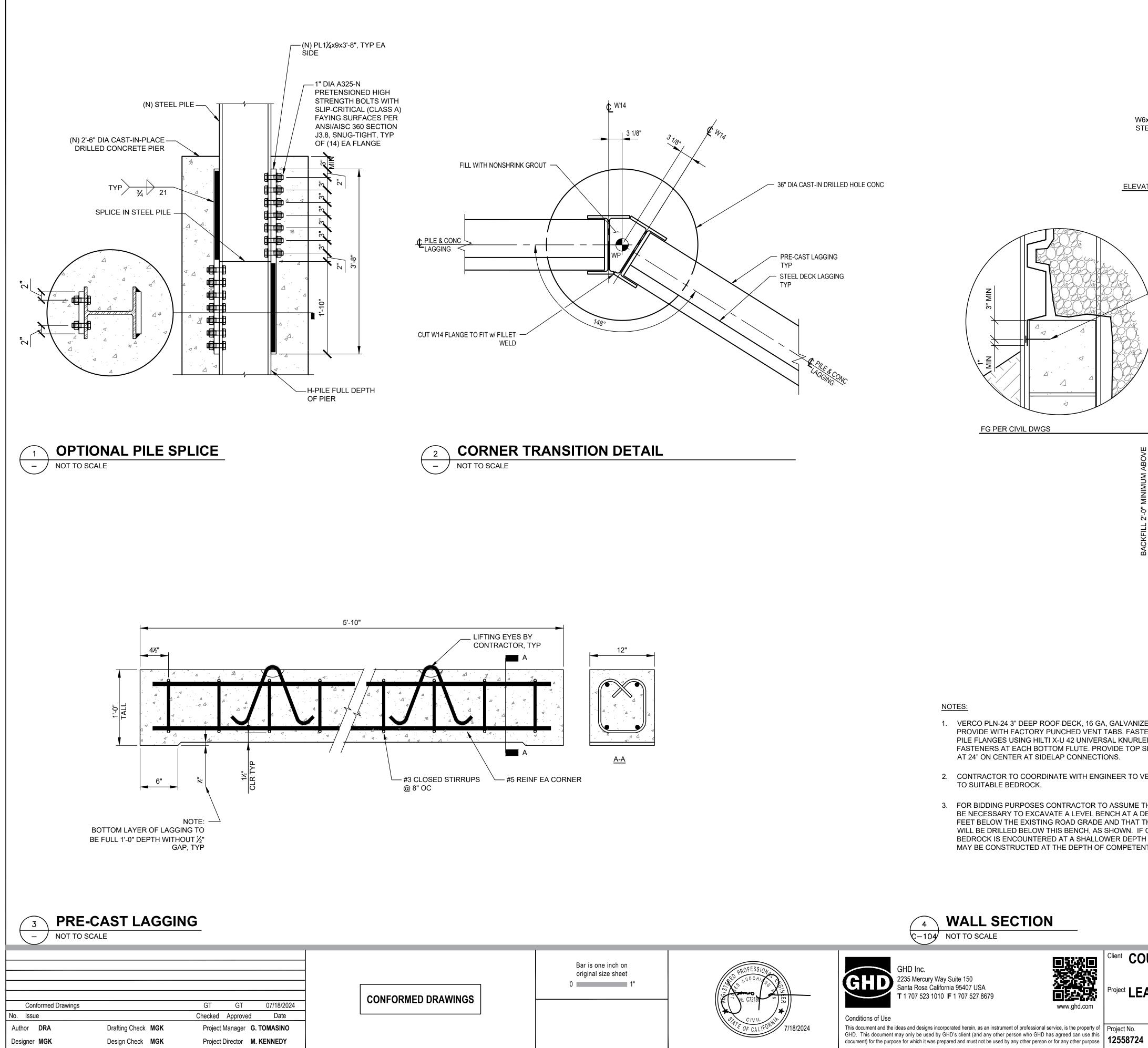
OF SONOMA			Title TANK SECTIONS AND DETAILS - SONOMA SITE	Size ANSI D
E TANK REPLACEMENT		IENT		
	Date	Scale	Drawing No.	Sheet No.
	7/18/2024	AS SHOWN	5-306	33 of 48







F SONOMA	Title STRUCTURAL DETAILS 3	Size ANSI D
TANK REPLACEMENT		
Date Scale 7/18/2024 AS SHOWN	Drawing No. <b>S-503</b>	Sheet No. <b>36</b> of <b>48</b>



Plot Date: 18 July 2024 - 3:53 PM

Plotted By: Steven Toft

Filename: \\ghdnet\ghd\US\San Francisco\Projects\561\12558724\Digital\_Design\ACAD\Sheets\Leachate Tanks\12558724-GHD-0001-DWG-ST-0504.dwg

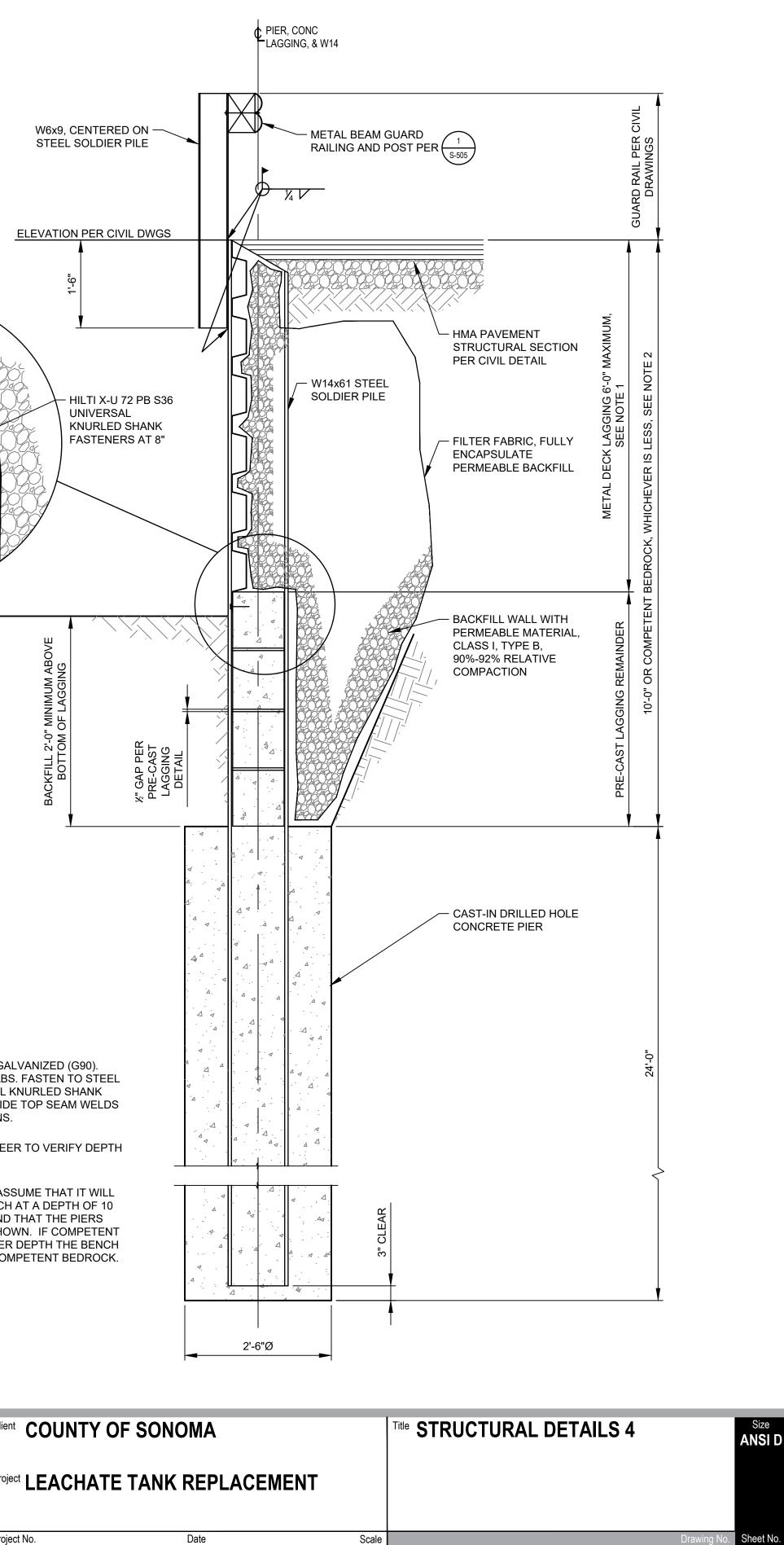


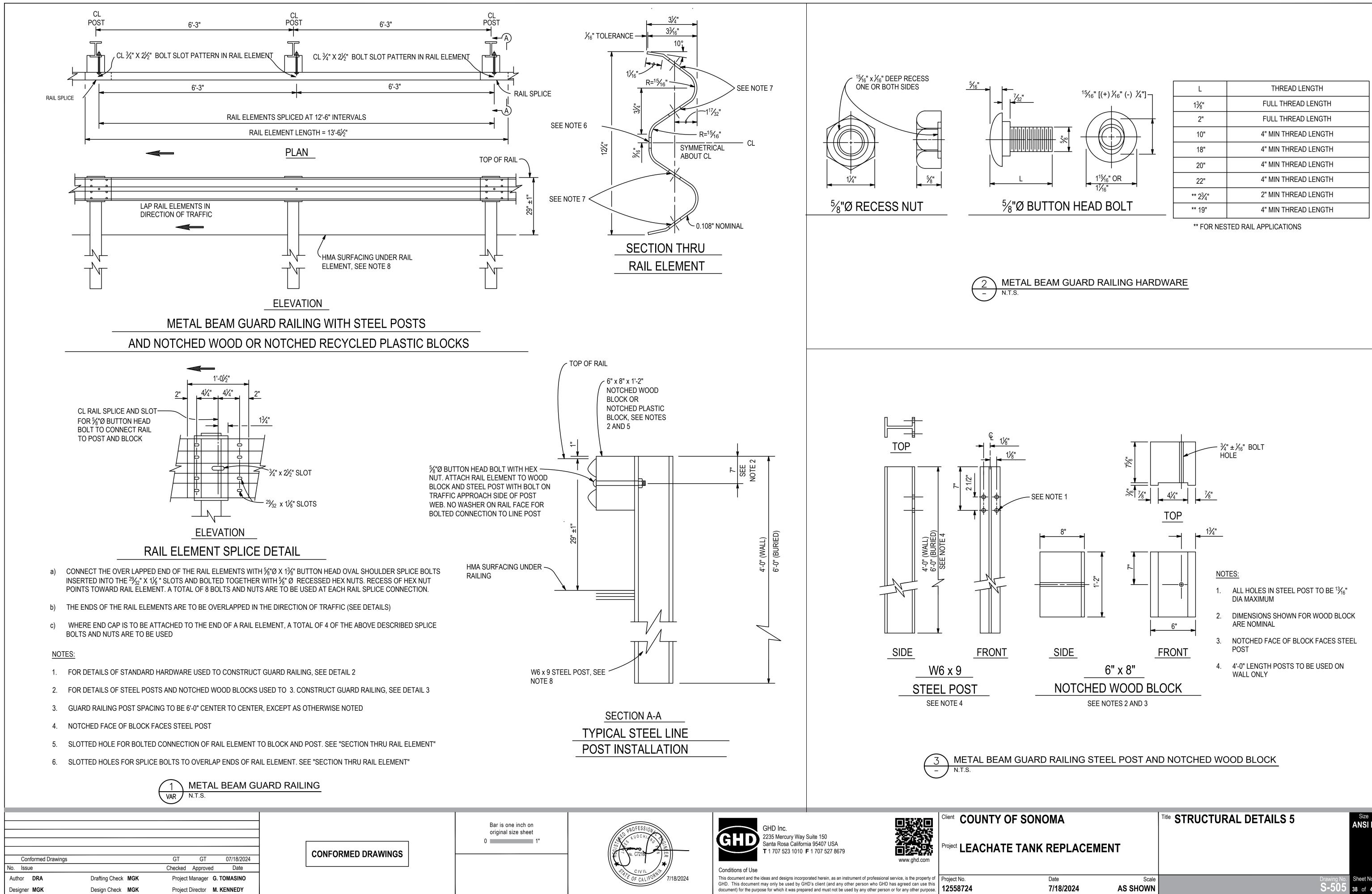
- 1. VERCO PLN-24 3" DEEP ROOF DECK, 16 GA, GALVANIZED (G90). PROVIDE WITH FACTORY PUNCHED VENT TABS. FASTEN TO STEEL PILE FLANGES USING HILTI X-U 42 UNIVERSAL KNURLED SHANK FASTENERS AT EACH BOTTOM FLUTE. PROVIDE TOP SEAM WELDS AT 24" ON CENTER AT SIDELAP CONNECTIONS.
- 2. CONTRACTOR TO COORDINATE WITH ENGINEER TO VERIFY DEPTH
- 3. FOR BIDDING PURPOSES CONTRACTOR TO ASSUME THAT IT WILL BE NECESSARY TO EXCAVATE A LEVEL BENCH AT A DEPTH OF 10 FEET BELOW THE EXISTING ROAD GRADE AND THAT THE PIERS WILL BE DRILLED BELOW THIS BENCH, AS SHOWN. IF COMPETENT BEDROCK IS ENCOUNTERED AT A SHALLOWER DEPTH THE BENCH MAY BE CONSTRUCTED AT THE DEPTH OF COMPETENT BEDROCK.

Client COUNTY OF SONOMA

7/18/2024

AS SHOWN





Plot Date: 18 July 2024 - 3:54 PM

L	THREAD LENGTH
1 <mark>%</mark> "	FULL THREAD LENGTH
2"	FULL THREAD LENGTH
10"	4" MIN THREAD LENGTH
18"	4" MIN THREAD LENGTH
20"	4" MIN THREAD LENGTH
22"	4" MIN THREAD LENGTH
** 23⁄4"	2" MIN THREAD LENGTH
** 19"	4" MIN THREAD LENGTH

OF SONOMA	Title STRUCTURAL DETAILS 5	Size ANSI D
E TANK REPLACEMENT		
Date Scale 7/18/2024 AS SHOWN	Drawing No. S-505	Sheet No. 38 of 48

Plotted By: Steven Toft

# ABBREVIATIONS

(D) (E)	DEMOLISH EXISTING	KAIC	KILO-AMPS INTERRUPTING
(F)	FUTURE		CAPACITY
(N)	NEW	KVA KW	KILOVOLT-AMP KILOWATT
A		KWH	
AC AF	ALTERNATING CURRENT AMP FRAME	LSH	LEVEL SWITCH - HIGH
AFF	ABOVE FINISHED FLOOR	LSHH	LEVEL SWITCH - HIGH-HIGH
AFG AHU	ABOVE FINISHED GRADE AIR HANDLING UNIT	LSL LSLL	LEVEL SWITCH - LOW LEVEL SWITCH - LOW-LOW
AIC	AMPS INTERRUPTING CAPACITY	LV	LOW VOLTAGE
ANN ATS	ANNUNCIATOR AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BAT	BATTERY	MCP MFR	MOTOR CIRCUIT PROTECTOR MANUFACTURER
BFG	BELOW FINISH GRADE	MLO	MAIN LUGS ONLY
CATV	CABLE TELEVISION	NIC	NOT IN CONTRACT
C		NTS	NOT TO SCALE
CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	OC	ON CENTER
со	CONDUIT ONLY		
CPT CT	CONTROL POWER TRANSFORMER CURRENT TRANSFORMER	PA PT	PUBLIC ADDRESS POTENTIAL TRANSFORMER
CU	COPPER	PV	PHOTOVOLTAIC
DC	DIRECT CURRENT	PVC PB	POLYVINYL CHLORIDE PULL BOX, ELECTRICAL
	DIRECTOURIENT	PLC	PROGRAMMABLE LOGIC
EGU EM	ENGINE GENERATOR UNIT EMERGENCY		CONTROLLER
EMT	ELECTRICAL METALLIC TUBING	RECPT	,
ENT	ELECTRICAL NON-METALLIC TUBING	RGS	RIGID GALVANIZED STEEL (CONDUIT)
EP	EXPLOSION PROOF	RVSS	REDUCED VOLTAGE SOFT START
FA	FIRE ALARM	RTU	REMOTE TERMINAL UNIT
FACP	FIRE ALARM CONTROL PA	SPD	SURGE PROTECTION DEVICE
FU	FUSE	SSRV SSTL	SOLID STATE REDUCE VOLTAGE STAINLESS STEEL
GND	GROUND	SR	RECEPTACLE
GFCI	GROUND FAULT CIRCUIT	STC	STANDARD TEST CONDITIONS
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION MONITOR (SET)
GFR	GROUND FAULT RELAY	UF	UNDER FLOOR
HID	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
HOA HP	"HAND-OFF-AUTO" SWITCH HORSEPOWER	UON UPS	UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
HPS	HIGH PRESSURE SODIUM	010	
HMI HVAC	HUMAN-MACHINE INTERFACE HEATING, VENTILATION &	V VA	VOLT VOLT-AMP
	AIR-CONDITIONING	VA VFD	VOLT-AMP VARIABLE FREQUENCY DRIVE
IG	ISOLATED GROUND	WP	WEATHERPROOF
INST	INSTRUMENTATION	WPI	WEATHERPROOF IN USE
		XFMR	TRANSFORMER
JB	JUNCTION BOX		
	ANNOT	ATION	
$\left  \left\langle 1 \right\rangle \right $	KEYNOTE		
10	RACEWAY, FEEDER OR CIRCUIT D	ESIGNATION	N (SEE SCHEDULE)
	DETAIL NUMBER	_	- SECTION LETTER
		$\checkmark$	
$\left(\begin{array}{c}1\\-\end{array}\right)$		A	SECTION INDICATOR
E-501	· \	E-301	
	SHEET NUMBER ON		ET NUMBER ON WHICH
V	VHICH DETAIL APPEARS	SEC	TION APPEARS
WH	MECHANICAL EQUIPMENT DESIGN	ATION	
	(SEE SCHEDULE)		

## **OBJECT LINES**

NEW OBJECTS (HEAVY CONTINUOUS LINES, UNDERGROUND CONDUIT HEAVY DASHED LINES)
EXISTING OBJECTS TO REMAIN. MAY INCLUDE NEW CIRCUITING ETC. (FINE CONTINUOUS LINES, UNDERGROUND CONDUIT FINE DASHED LINES)

 $\begin{array}{c} = \overbrace{(j)}^{--} \\ (j) \end{array}$  EXISTING OBJECTS TO BE DEMOLISHED (EXTRA FINE DASHED LINES, SCREENED)

# Conformed Drawings GT GT 07/18/2024 No. Issue Checked Approved Date Author EAO Drafting Check MGK Project Manager G. TOMASINO Designer EAO Design Check RPG Project Director M. KENNEDY

M, INDICATING LIGHT, SIGNAL LIGHT OR STROBE JIT BREAKER - SIZE AND TYPE AS INDICATED JIT BREAKER IN NEMA ENCLOSURE SIZE AND TYPE AS INI MAL OVERLOAD RELAY INATION MOTOR CONTROLLER, STARTER, CIRCUIT BREA INATION MOTOR CONTROLLER, STARTER, CIRCUIT BREA POUT TYPE CONNECTION DNNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL R, ELECTRICAL
JIT BREAKER IN NEMA ENCLOSURE SIZE AND TYPE AS INI MAL OVERLOAD RELAY HINATION MOTOR CONTROLLER, STARTER, CIRCUIT BREA T TRIP -OUT TYPE CONNECTION DNNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL
MAL OVERLOAD RELAY INATION MOTOR CONTROLLER, STARTER, CIRCUIT BREA T TRIP 4-OUT TYPE CONNECTION INNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL
NATION MOTOR CONTROLLER, STARTER, CIRCUIT BREA T TRIP -OUT TYPE CONNECTION ONNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL
T TRIP 4-OUT TYPE CONNECTION ONNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL
-OUT TYPE CONNECTION ONNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL
ONNECT SWITCH WITH FUSE - SIZE AS INDICATED LOCK, ELECTRICAL
- SIZE AS INDICATED LOCK, ELECTRICAL
LOCK, ELECTRICAL
R, ELECTRICAL
R - SIZE AS INDICATED
SFER SWITCH, ATS: AUTOMATIC, MTS: MANUAL
RATOR UNIT - RATED AS INDICATED
SFORMER, PAD MOUNT
SFORMER, DRY TYPE
NTIAL TRANSFORMER WITH FUSE
ENT TRANSFORMER
E ARRESTOR - LIGHTING
INDING ELECTRODE OR CONNECTION

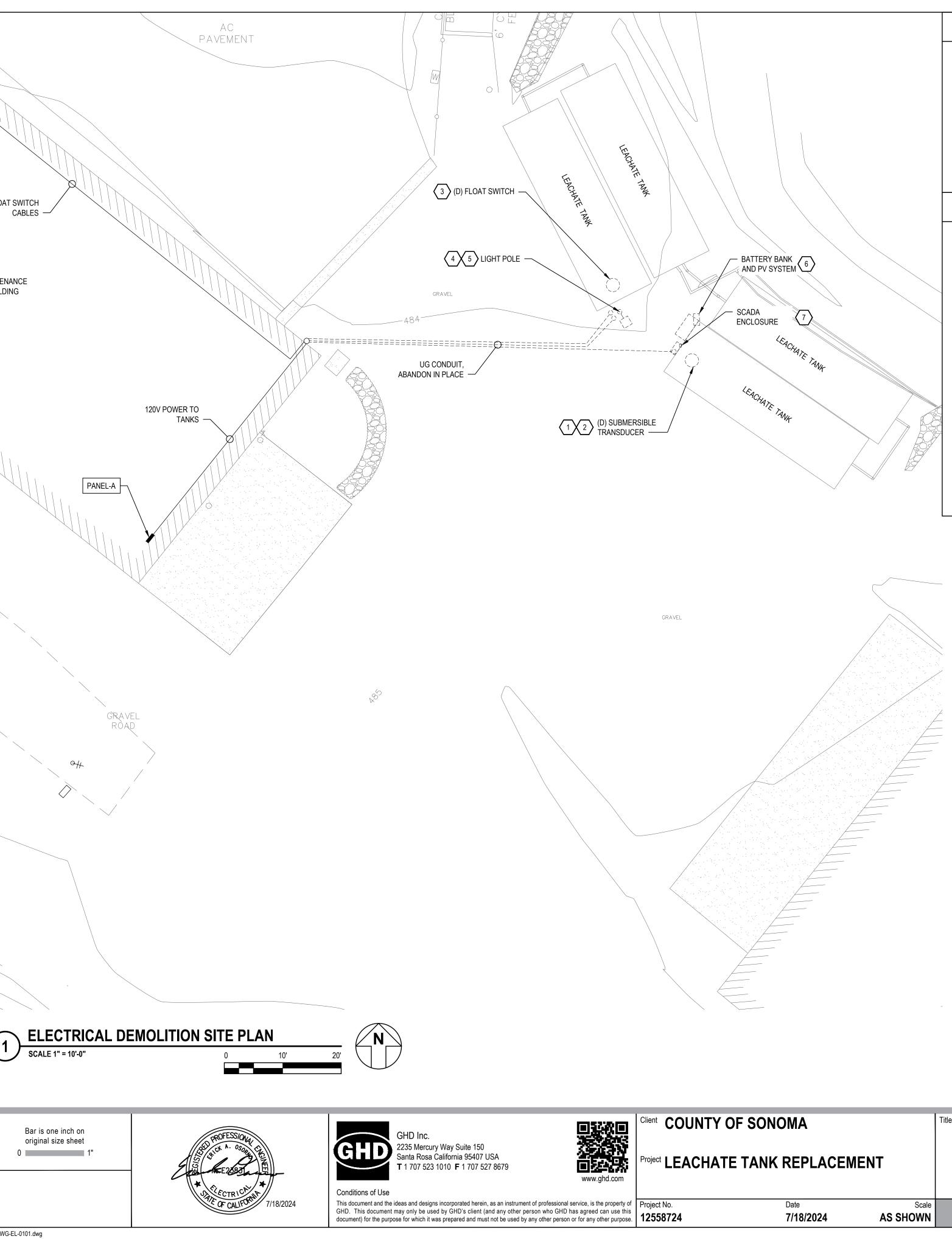
CONFORMED DRAWINGS

Plot Date: 18 July 2024 - 3:17 PM

Plotted By: Steven Toft

	ELECTRICAL SYMBOLS	LEGEND			GEN	ERAL ELECTRICAL NOTES
ROBE D D TYPE AS INDICATED	ELECTRICAL SYMBOLS         POWER	NG TYPE, G TYPE, G TYPE, GROUNDING TYPE, IG TYPE, G TYPE,	BATTERY CHARGER   CR   COIL RELAY   CONTACT - NORMALLY CLO   CONTACT - NORMALLY CLO   CONTACT - NORMALLY OPI   CONTACT - NORMALLY   CONTACT - NORMALLY   CONTACT - NORMALLY   CONTACT - NORMALLY	EN - NORMALLY CLOSED - NORMALLY OPEN ' CLOSED	1.       ALL WORK SHALL CON CODE (CEC), AND ALL         2.       THE CONTRACTOR IS F MANNER. KEEP DEAD F ALL CONSTRUCTION O PERSONS OR ANYONE REQUIRED TO MAINTA         3.       PRIOR TO COMMENCIN TEMPORARY SHUT DO DISCONNECTING, MOD WRITTEN METHOD OF PROPOSED WORK FOF EQUIPMENT SHALL NO REPRESENTATIVE.         4.       ALL EQUIPMENT SHALL LABORATORY AND INS INSTRUCTIONS.         5.       ALL EQUIPMENT SHALL GROUNDING CONDUCT         6.       CONTRACTOR RESPO CONSTRUCTION. DRA THEIR RELATED CIRCU	FORM TO THE LATEST ADOPTED VERSION OF THE CALIFORNIA ELECTRICAL RECOGNIZED CODES OF THE AUTHORITY HAVING JURISDICTION. RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT PERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORK VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS
	UAL SERVICE RECESSED FLOOR BOX WITH DUPI   OR   JUNCTION BOX, CODE SIZED UON   FLOOR JUNCTION BOX   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I   I    I   I </td <td>E CT SWITCH</td> <td>SELECTOR SWITCH - HAND</td> <td>SED ON INCREASE N ON INCREASE RY - NORMALLY CLOSED RY - NORMALLY OPEN</td> <td><ol> <li>UNLESS SPECIFICALLY NEW AND PROVIDED B</li> <li>MAINTAIN AS BUILT CC</li> </ol></td> <td>INDICATED OTHERWISE, ALL EQUIPMENT INDICATED SHALL BE CONSIDERED Y THE CONTRACTOR COMPLETE, INSTALLED, TESTED AND FUNCTIONING. NDITIONS OF THE INSTALLATION DURING CONSTRUCTION AND SUBMIT THE CONDITIONS TO THE OWNER/ARCHITECT FOR THEIR RECORDS.</td>	E CT SWITCH	SELECTOR SWITCH - HAND	SED ON INCREASE N ON INCREASE RY - NORMALLY CLOSED RY - NORMALLY OPEN	<ol> <li>UNLESS SPECIFICALLY NEW AND PROVIDED B</li> <li>MAINTAIN AS BUILT CC</li> </ol>	INDICATED OTHERWISE, ALL EQUIPMENT INDICATED SHALL BE CONSIDERED Y THE CONTRACTOR COMPLETE, INSTALLED, TESTED AND FUNCTIONING. NDITIONS OF THE INSTALLATION DURING CONSTRUCTION AND SUBMIT THE CONDITIONS TO THE OWNER/ARCHITECT FOR THEIR RECORDS.
JAL		, C=COMBINATION , C=C	<ul> <li>SWITCH - NORMALLY CLOS</li> <li>SWITCH - NORMALLY OPEN</li> <li>TEMPERATURE SWITCH - N</li> <li>T</li> <li>TEMPERATURE SWITCH - NORMALLY</li> <li>TIMER SWITCH - NORMALLY</li> <li>TIMER SWITCH - NORMALLY</li> </ul>	N NORMALLY CLOSED NORMALLY OPEN Y CLOSED	E-101ELECTRICE-102ELECTRICE-103ELECTRICE-104ELECTRICE-105ELECTRICE-106ELECTRICE-501ELECTRICE-601ELECTRIC	SHEET INDEX
Bar is one inch on original size sheet 0 1"	Cond This de	GHD Inc. 2235 Mercury Way Suite 150 Santa Rosa California 95407 USA T 1 707 523 1010 F 1 707 527 8679 itions of Use	www.ghd.com	Client COUNTY OF SONOMA Project LEACHATE TANK REPLACE Project No. Date	MENT Scale	ECTRICAL LEGEND, BREVIATIONS AND GENERAL TES
WG-EL-0001.dwg	GHD. docum	This document may only be used by GHD's client (and any othe ent) for the purpose for which it was prepared and must not be used	d by any other person or for any other purpose.	12558724 7/18/2024	AS SHOWN	E-001 Sheet No. 39 of 48

		AUTO DIALER LOCATION, VE FIELD	APPROX. RIFY IN
			FLOAT SWIT CABL
			MAINTENANCE BUILDING
	GRAVEL	GRAVEL ROAD	GRAVEL
		190 195	
Conformed Drawings GT	T GT 07/18/2024	CONFORMED DRAWINGS	0
Issue     Check       uthor     EAO     Drafting Check     MGK     Pro	cked Approved Date oject Manager <b>G. TOMASINO</b> oject Director <b>M. KENNEDY</b>	\US\San Francisco\Projects\561\12558724\Digital_Design\ACAD\Sheets\Le	



# **GENERAL NOTES**

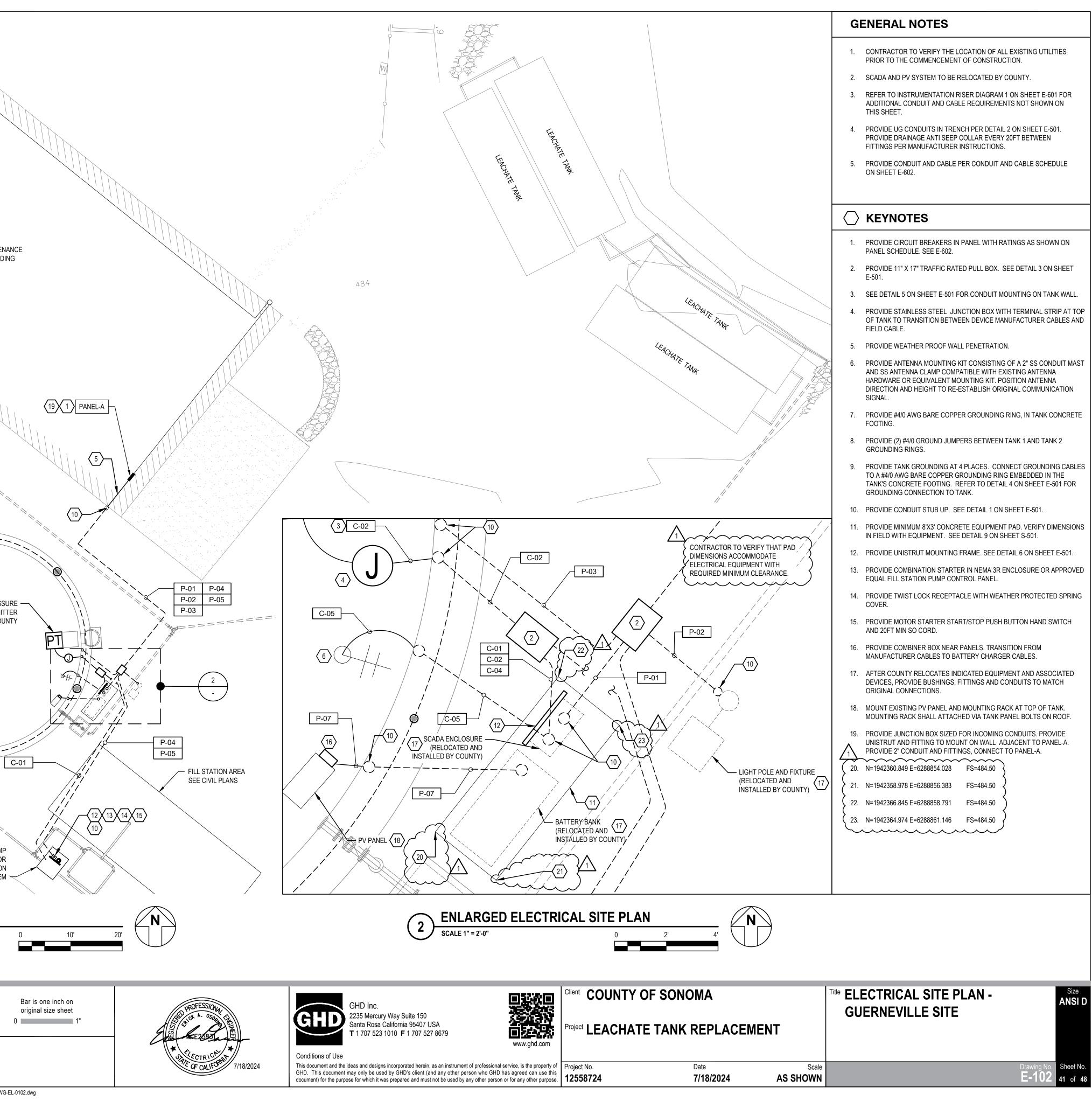
- 1. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. SCADA AND ASSOCIATED ELECTRICAL EQUIPMENT TO BE REMOVED BY COUNTY PRIOR TO DEMOLITION OF TANKS.
- 3. DEMOLITION AND RELOCATION OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHALL BE DONE IN ACCORDANCE WITH SITE RELOCATION PLAN ON SHEET C-102.

# **KEYNOTES**

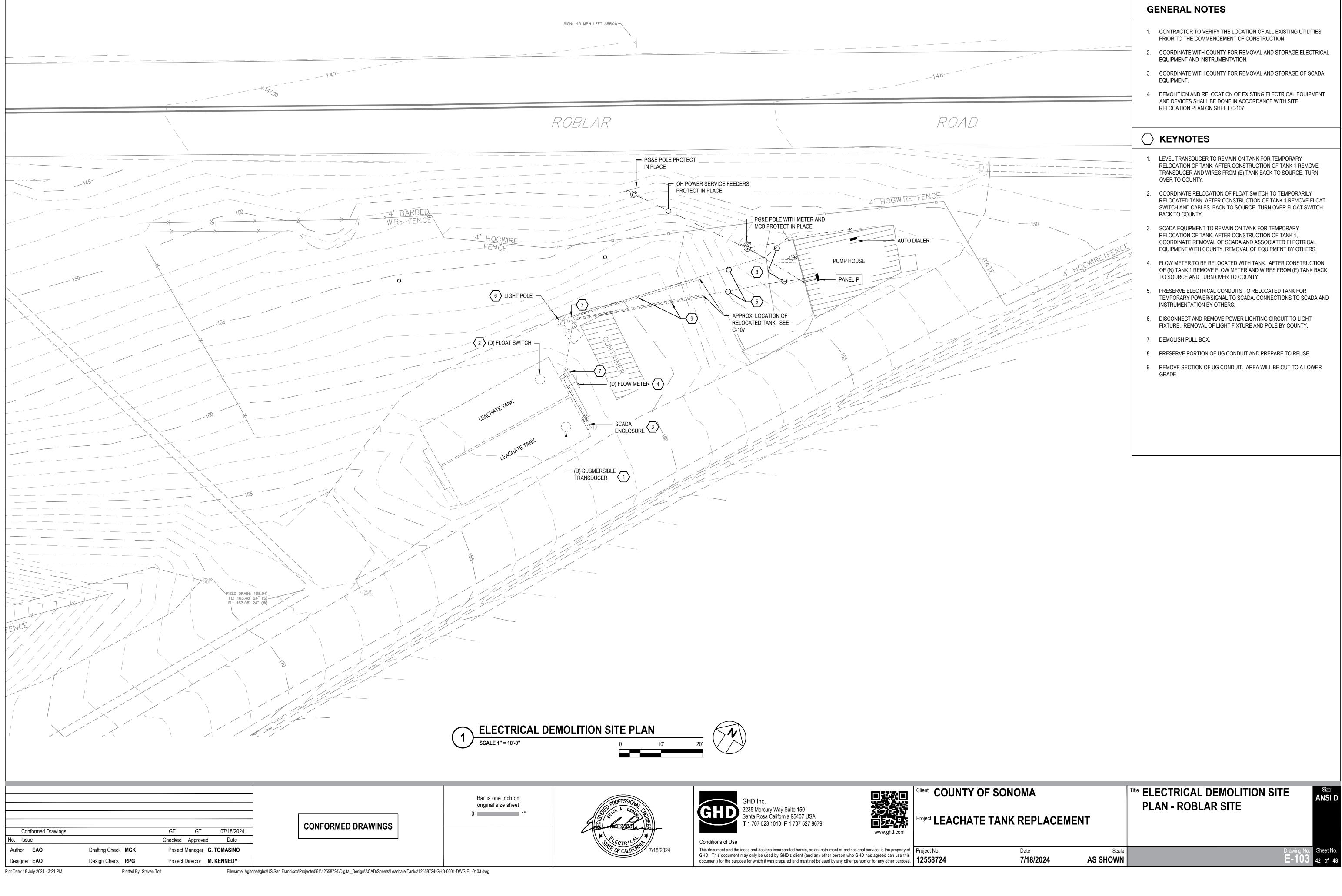
- 1. DISCONNECT AND REMOVE SUBMERSIBLE LEVEL TRANSDUCER AND CABLES BACK TO SOURCE. TURN OVER TO COUNTY.
- 2. REMOVE SURFACE MOUNTED TRANSDUCER CONDUITS AND FITTING MOUNTED ON TANK.
- DISCONNECT AND REMOVE LEVEL FLOAT SWITCH, TURN OVER TO 3. COUNTY. DISCONNECT CABLES AND PULL BACK TO SOURCE, PRESERVE CABLES AND PREPARE TO REUSE.
- 4. REMOVE SURFACE MOUNTED FLOAT SWITCH CONDUITS AND FITTING ON WOODEN POLE. CUT CONDUIT FLUSH WITH GROUND, CAP AND ABANDON UNDERGROUND SECTION IN PLACE.
- 5. DISCONNECT AND REMOVE POWER LIGHTING CIRCUIT TO LIGHT FIXTURE. REMOVAL OF LIGHT FIXTURE AND POLE BY COUNTY.
- COORDINATE REMOVAL OF BATTERY BANK, PV SYSTEM AND 6. ASSOCIATED EQUIPMENT WITH COUNTY. EQUIPMENT TO BE RELOCATED BY COUNTY.
- COORDINATE REMOVAL OF SCADA EQUIPMENT AND ASSOCIATED EQUIPMENT WITH COUNTY. SCADA EQUIPMENT TO BE RELOCATED BY COUNTY.

OF SONOMA	т	Title ELECTRICAL DEMOLITION SITE	Size
E TANK REPLACEMEN		PLAN - GUERNEVILLE SITE	ANSI D
Date	Scale	Drawing No.	Sheet No.
<b>7/18/2024</b>	AS SHOWN	<b>E-101</b>	<b>40</b> of <b>48</b>

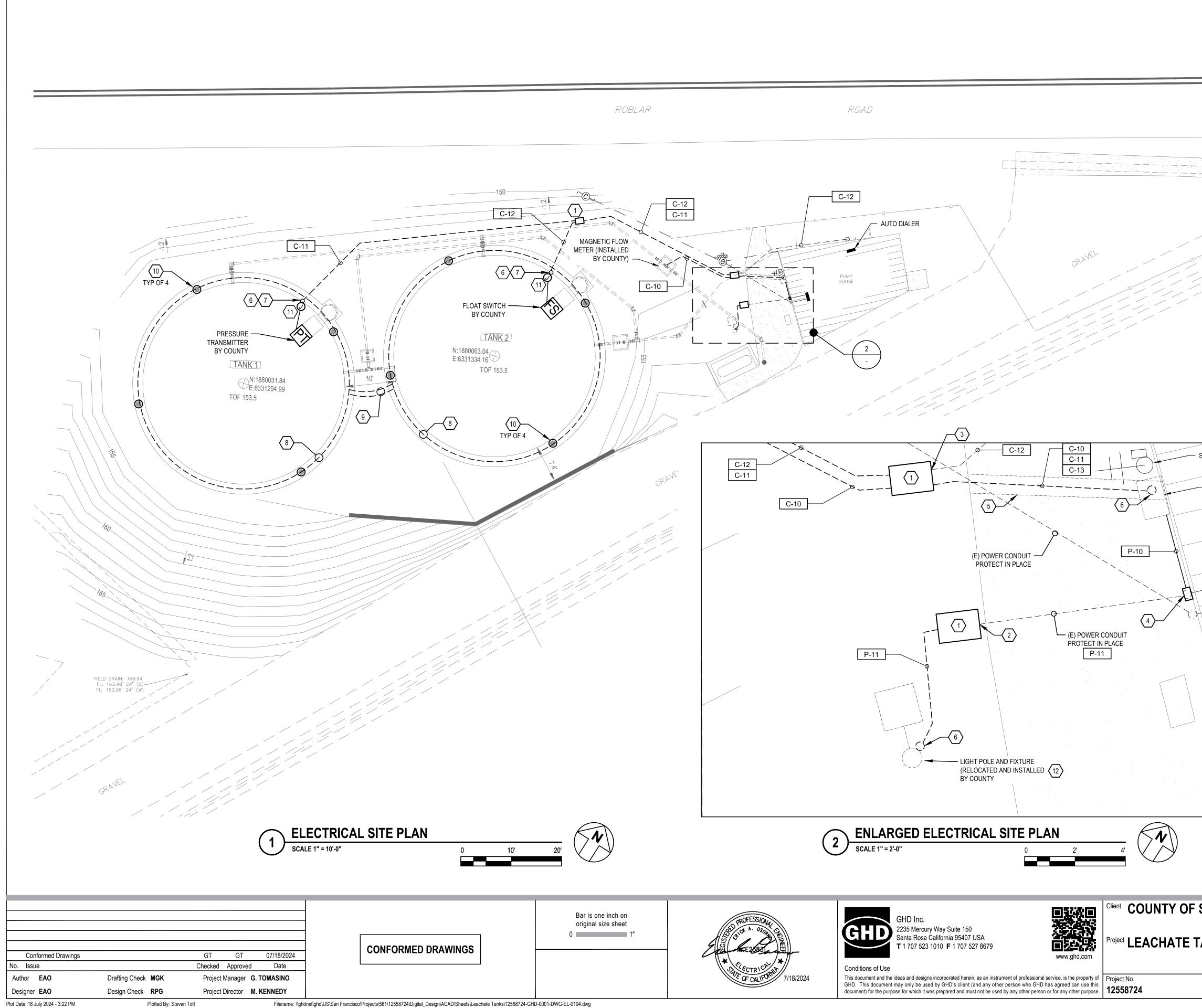
	(E) AUTO DIALER APPROX. LOCATION, VERIFY IN FIELD
	MAINTENANCE BUILDING
9 TYP OF 4	C-03 0 10 3 C-03 2 4 0 10 10 TANK 1 0 FIS FLOAT SWITCH BY COUNTY
	B B B COUNTY TANK 2 O TOF 484.50 TYP OF 4
	C-O1
	1 ELECTRICAL SITE PLAN SCALE 1" = 10'-0" 0
M       RFI #005       GT       GT       07/30/2024         M       Conformed Drawings       GT       GT       07/18/2024         No.       Issue       Checked       Approved       Date         Author       EAO       Drafting Check       MGK       Project Manager       G. TOMASINO         Designer       EAO       Design Check       RPG       Project Director       M. KENNEDY         Plot Date:       14 August 2024 - 1:24 PM       Plotted By: Steven Toft       Filename: \\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtydnet\ghtyd	CONFORMED DRAWINGS





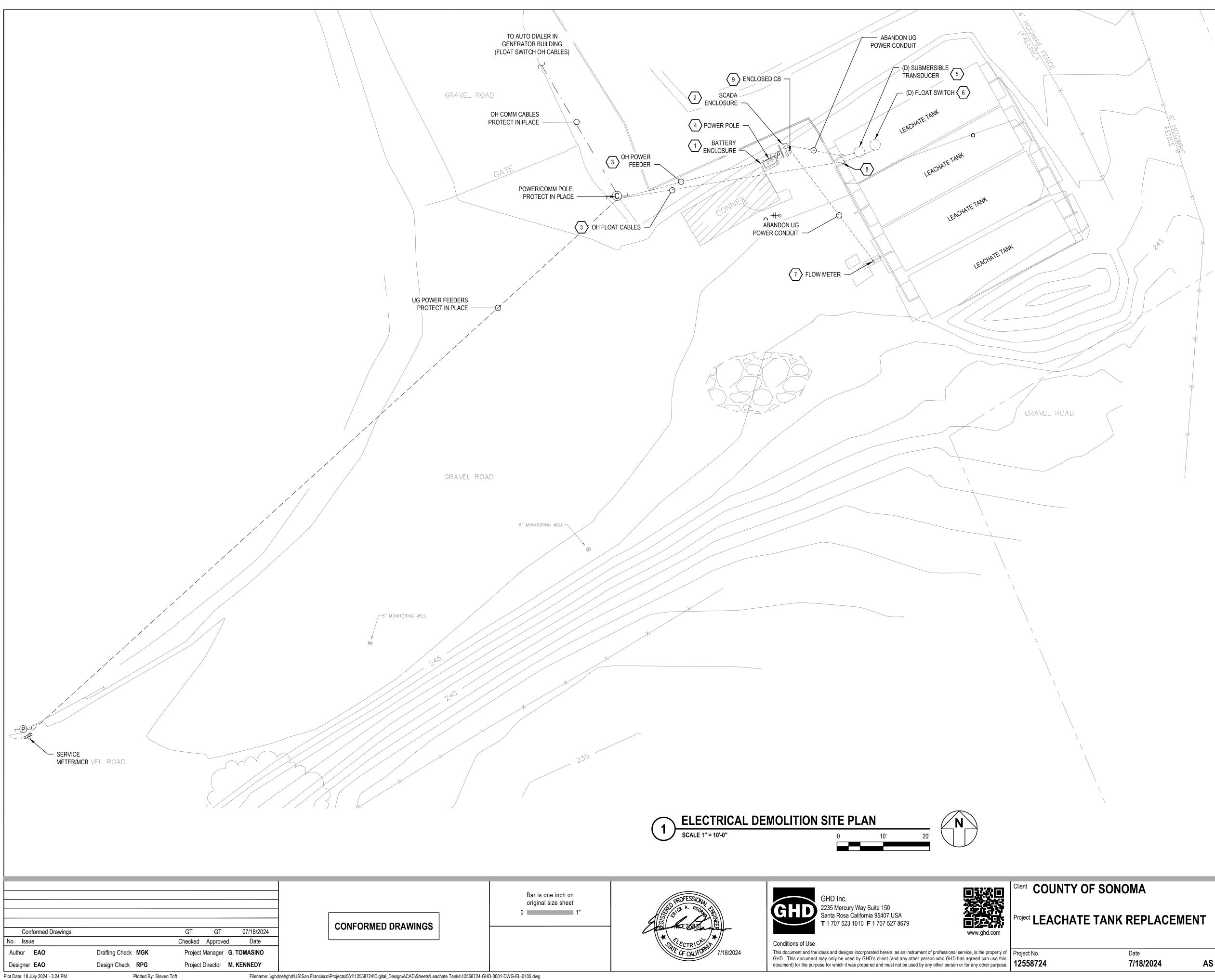


F SON	NOMA		Title ELECTRICAL DEMOLITION SITE PLAN - ROBLAR SITE	Size ANSI D
E TANI	K REPLACEN	IENT		
	Date	Scale	Drawing No.	Sheet No.
	7/18/2024	AS SHOWN	E-103	42 of 48



		GE	ENERAL NOTES
		1.	CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
		2.	SCADA AND PV SYSTEM TO BE RELOCATED BY COUNTY.
		3.	REFER TO INSTRUMENTATION RISER DIAGRAM 2 ON SHEET E-601 FOR ADDITIONAL CONDUIT AND CABLE REQUIREMENTS NOT SHOWN ON THIS SHEET.
		4.	PROVIDE UG CONDUITS IN TRENCH PER DETAIL 2 ON SHEET E-501.
—		5.	PROVIDE CONDUIT AND CABLE PER CONDUIT AND CABLE SCHEDULE ON SHEET E-602.
		$\bigcirc$	KEYNOTES
		1.	PROVIDE 11" X 17" TRAFFIC RATED PULL BOX. SEE DETAIL 3 ON SHEET E-501.
		2.	INTERCEPT (E) UG POWER CONDUIT FROM PANEL P AND CONNECT TO POWER PULL BOX.
		3.	INTERCEPT (E) UG SIGNAL CONDUIT FROM AUTO DIALER AND CONNECT TO SIGNAL PULL BOX.
		4.	PROVIDE 6"x6"x4" NEMA 3R JUNCTION BOX AND INTERCEPT EXISTING PANEL-P BRANCH CIRCUIT POWER CONDUIT ON EXTERIOR WALL OF PUMP HOUSE.
		5.	PROVIDE SAW CUT FOR (N) CONDUIT. PATCH AFTER CONDUIT INSTALLATION TO MATCH EXISTING CONDITIONS.
		6.	PROVIDE CONDUIT STUB UP. SEE DETAIL 1 ON SHEET E-501.
		7.	SEE DETAIL 5 ON SHEET E-501 FOR CONDUIT MOUNTING ON TANK WALL.
		8.	PROVIDE #4/0 AWG BARE COPPER GROUNDING RING, IN TANK CONCRETE FOOTING.
		9.	PROVIDE (2) #4/0 GROUND JUMPERS BETWEEN TANK 1 AND TANK 2 GROUNDING RINGS.
		10.	PROVIDE TANK GROUNDING AT 4 PLACES. CONNECT GROUNDING CABLES TO A #4/0 AWG BARE COPPER GROUNDING RING EMBEDDED IN THE TANK'S CONCRETE FOOTING. REFER TO DETAIL 4 ON SHEET E-501 FOR GROUNDING CONNECTION TO TANK.
		11.	PROVIDE STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIP AT TOP OF TANK TO TRANSITION BETWEEN DEVICE MANUFACTURER CABLES AND FIELD CABLE.
SCADA ANTENNA (14)		12.	AFTER COUNTY RELOCATES INDICATED EQUIPMENT AND ASSOCIATED DEVICES, PROVIDE BUSHINGS, FITTINGS AND CONDUITS TO MATCH ORIGINAL CONNECTIONS.
- SCADA ENCLOSURE		13.	PROVIDE UNISTRUT MOUNTING FOR SCADA ENCLOSURE AND ANCHOR TO WALL.
(RELOCATED AND INSTALLED BY COUNTY)	< <u>13</u>	14.	PROVIDE ANTENNA MOUNTING KIT CONSISTING OF A 2" SS CONDUIT MAST AND SS ANTENNA CLAMP COMPATIBLE WITH EXISTING ANTENNA HARDWARE OR EQUIVALENT MOUNTING KIT. POSITION ANTENNA DIRECTION AND HEIGHT TO RE-ESTABLISH ORIGINAL COMMUNICATION SIGNAL.
	PANEL-P		

OF SONOMA	Title ELECTRICAL SITE PLAN - ROBLAR SITE	Size ANSI D
E TANK REPLACEMENT		
Date         Scale           7/18/2024         AS SHOWN		Drawing No. Sheet No. <b>E-104</b> 43 of 48



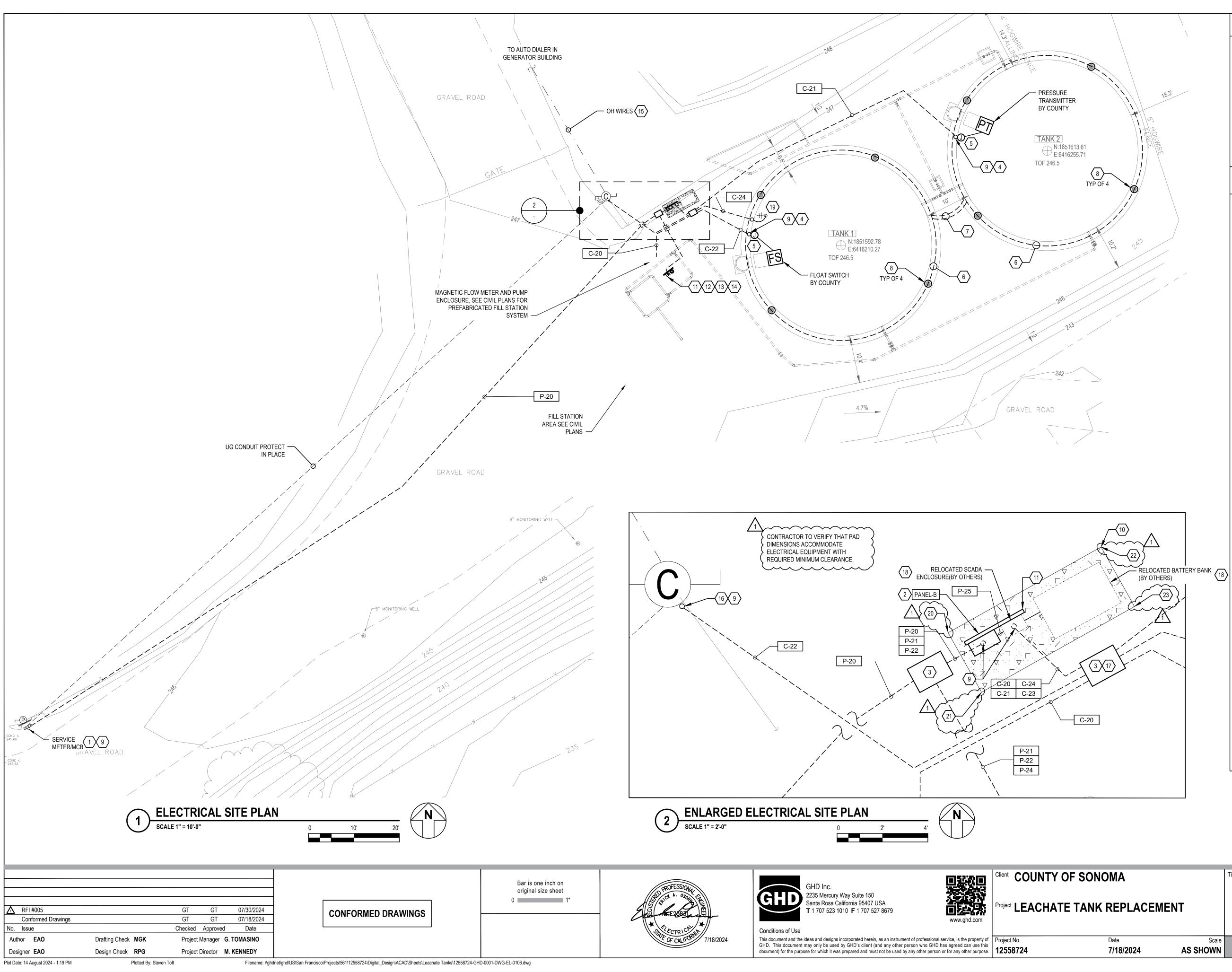
# **GENERAL NOTES**

- 1. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. COORDINATE WITH COUNTY FOR REMOVAL AND STORAGE ELECTRICAL EQUIPMENT AND INSTRUMENTATION.
- 3. COORDINATE WITH COUNTY FOR REMOVAL AND STORAGE OF SCADA EQUIPMENT.
- 4. DEMOLITION AND RELOCATION OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHALL BE DONE IN ACCORDANCE WITH SITE RELOCATION PLAN ON SHEET C-112.

# **KEYNOTES**

- 1. COORDINATE REMOVAL OF BATTERY BANK AND ASSOCIATED EQUIPMENT WITH COUNTY. EQUIPMENT TO BE RELOCATED BY COUNTY.
- 2. COORDINATE REMOVAL OF SCADA EQUIPMENT AND ASSOCIATED ELECTRICAL EQUIPMENT WITH COUNTY. SCADA EQUIPMENT TO BE RELOCATED BY COUNTY.
- 3. DISCONNECT OH WIRES, PRESERVE AND PREPARE TO REUSE.
- 4. COORDINATE REMOVAL OF POWER POLE AND ASSOCIATED POWER EQUIPMENT WITH COUNTY.
- 5. LEVEL TRANSDUCER TO REMAIN ON TANK FOR TEMPORARY RELOCATION OF TANK. AFTER CONSTRUCTION OF TANK 1 REMOVE TRANSDUCER AND WIRES FROM (E) TANK BACK TO SOURCE.
- 6. COORDINATE RELOCATION OF FLOAT SWITCH TO TEMPORARILY RELOCATED TANK. AFTER CONSTRUCTION OF TANK 1 REMOVE FLOAT SWITCH, TURN OVER TO COUNTY. PRESERVE FLOAT SWITCH CABLE FROM AUTO DIALER AND PREPARE TO REUSE.
- 7. FLOW METER TO BE RELOCATED WITH TANK. AFTER CONSTRUCTION OF (N) TANK 1 REMOVE FLOW METER AND WIRES FROM (E) TANK BACK TO SOURCE AND TURN OVER TO COUNTY.
- 8. OH CABLE MAST AND WEATHER HEAD TO REMAIN ON TANK, REROUTE AND RECONNECT FLOAT SWITCH CABLES AFTER TEMPORARY TANK RELOCATION. REUSE AND EXTEND TRANSDUCER AND FLOW METER CABLES TO RELOCATED SCADA EQUIPMENT. ROUTE CABLES OH ACROSS GRAVEL ROAD VIA (E) POWER POLE AND WEATHER HEAD ON TANK. COORDINATE TEMPORARY CONNECTIONS WITH COUNTY.
- 9. DISCONNECT AND REMOVE ENCLOSED BREAKER.

# **ELECTRICAL DEMOLITION SITE** Size ANSI D PLAN - SONOMA SITE Scale AS SHOWN



# **GENERAL NOTES**

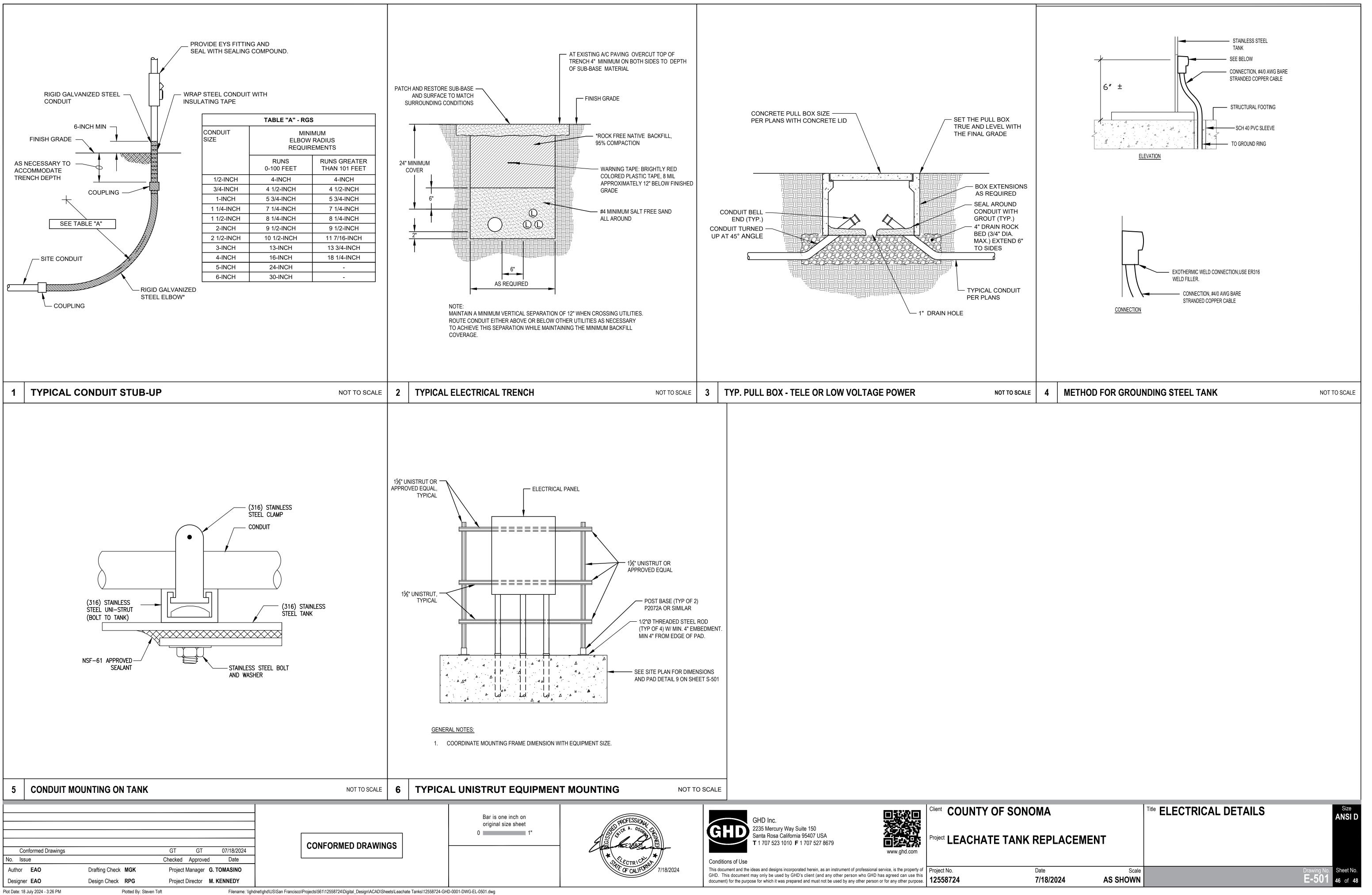
- I. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. SCADA TO BE RELOCATED BY COUNTY.
- 3. REFER TO INSTRUMENTATION RISER DIAGRAM 3 ON SHEET E-601 FOR ADDITIONAL CONDUIT AND CABLE REQUIREMENTS NOT SHOWN ON THIS SHEET.
- 4. PROVIDE UG CONDUITS IN TRENCH PER DETAIL 2 ON SHEET E-501. PROVIDE DRAINAGE ANTI SEEP COLLAR EVERY 20FT BETWEEN FITTINGS PER MANUFACTURER INSTRUCTIONS.
- 5. PROVIDE CONDUIT AND CABLE PER CONDUIT AND CABLE SCHEDULE ON SHEET E-602.

# ○ KEYNOTES

- 1. PROVIDE 100A 2P BREAKER IN METER/MAIN PANEL.
- 2. PROVIDE BRANCH PANEL-B IN NEMA 3R ENCLOSURE WITH CIRCUIT BREAKERS AND PANEL FEATURES AS SHOWN ON PANEL SCHEDULE. SEE SCHEDULE ON E-602.
- 3. PROVIDE 11" X 17" TRAFFIC RATED PULL BOX. SEE DETAIL 3 ON SHEET E-501.
- 4. SEE DETAIL 5 ON SHEET E-501 FOR CONDUIT MOUNTING ON TANK WALL.
- 5. PROVIDE STAINLESS STEEL JUNCTION BOX WITH TERMINAL STRIP AT TOP OF TANK TO TRANSITION BETWEEN DEVICE MANUFACTURER CABLES AND FIELD CABLE.
- 6. PROVIDE #4/0 AWG BARE COPPER GROUNDING RING, IN TANK CONCRETE FOOTING.
- PROVIDE (2) #4/0 GROUND JUMPERS BETWEEN TANK 1 AND TANK 2 GROUNDING RINGS.
- PROVIDE TANK GROUNDING AT 4 PLACES. CONNECT GROUNDING CABLES TO A #4/0 AWG BARE COPPER GROUNDING RING EMBEDDED IN THE TANK'S CONCRETE FOOTING. REFER TO DETAIL 4 ON SHEET E-501 FOR GROUNDING CONNECTION TO TANK.
- 9. PROVIDE CONDUIT STUB UP. SEE DETAIL 1 ON SHEET E-501.
- 10. PROVIDE MINIMUM 8'X3' CONCRETE EQUIPMENT PAD. VERIFY DIMENSIONS IN FIELD WITH EQUIPMENT. SEE DETAIL 9 ON SHEET S-501.
- 11. PROVIDE UNISTRUT MOUNTING FRAME. SEE DETAIL 6 ON SHEET E-501.
- 12. PROVIDE COMBINATION STARTER IN NEMA 3R ENCLOSURE OR APPROVED EQUAL FILL STATION PUMP CONTROL PANEL.
- 13. PROVIDE TWIST LOCK RECEPTACLE WITH WEATHER PROTECTED SPRING COVER.
- 14. PROVIDE MOTOR STARTER START/STOP PUSH BUTTON HAND SWITCH AND 20FT MIN SO CORD.
- 15. FIELD VERIFY LOCATION OF FLOAT SIGNAL CABLES AND PREPARE TO INTERCEPT.
- 16. PROVIDE SIGNAL RISER AT POWER POLE. TRANSITION TO UG CONDUIT AND TERMINATE AT SIGNAL PULL BOX.
- 17. INTERCEPT FLOAT CABLES AND ROUTE TO PULL BOX. PROVIDE SPLICE TO MATCH EXISTING CABLES AND EXTEND TO FLOAT SWITCH.
- 18. AFTER COUNTY RELOCATES INDICATED EQUIPMENT AND ASSOCIATED DEVICES, PROVIDE BUSHINGS, FITTINGS AND CONDUITS TO MATCH ORIGINAL CONNECTIONS.
- 19. PROVIDE ANTENNA MOUNTING KIT CONSISTING OF A 2" SS CONDUIT MAST AND SS ANTENNA CLAMP COMPATIBLE WITH EXISTING ANTENNA HARDWARE OR EQUIVALENT MOUNTING KIT. POSITION ANTENNA DIRECTION AND HEIGHT TO RE-ESTABLISH ORIGINAL COMMUNICATION

$\Lambda$	SIGNAL.	
20.	N=1851601.419 E=6416170.883	FS=246.50
21.	N=1851598.795 E=6416172.354	FS=246.50
22.	N=1851605.143 E=6416177.651	FS=246.50
23.	N=1851602.572 E=6416179.092	FS=246.50
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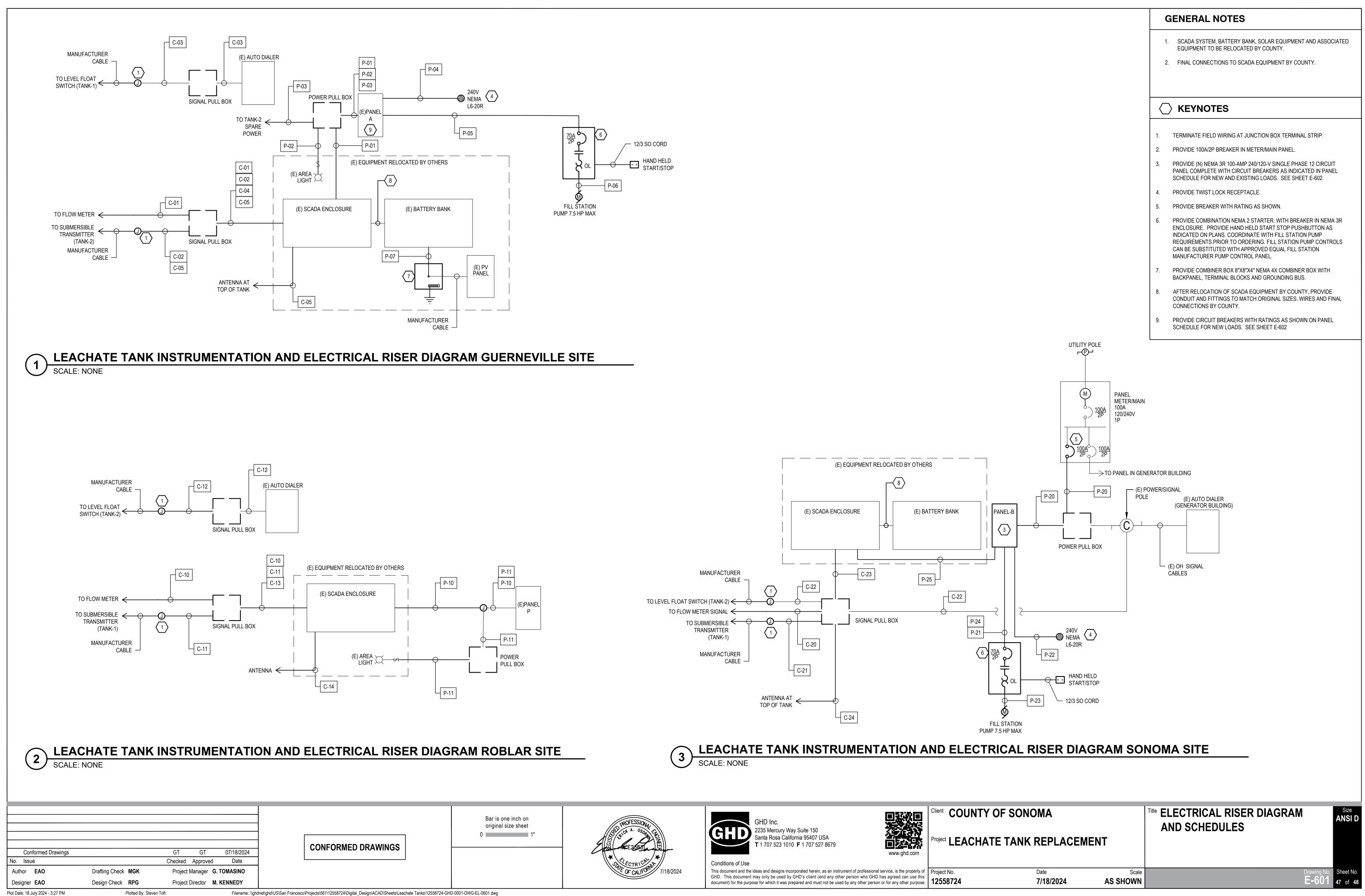
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	NK REPLACEN	IENT			
	Date <b>7/18/2024</b>	Scale AS SHOWN		E AÃO	Sheet No. <b>45</b> of <b>48</b>



Plot Date: 18 July 2024 - 3:26 PM

Plotted By: Steven Toft

OF SONOMA		Size ANSI D
E TANK REPLACEMENT		
Date Sc 7/18/2024 AS SHOW	ale /N	Drawing No. Sheet No. E-501 46 of 48



Plot Date: 18 July 2024 - 3:27 PM

Plotted By: Steven Toft

						EXISTI	NG PANE	L-GUERN	NEVILLE	SITE									
	NEL NAME: <b>A</b> NS RATING: MLO A MCB		VOLTAGE:		NEMA RATIN AIC RATIN	G: 3R		MOUNTIN	G:	SURFACE RNEVILLE S	ITF	NOTES:	EXISTING LO	DADS SHON	WN IN ITALIC, NEW	LOADS ARE SHOW	N BOLD.		N
	NS RATING: MLO A MCB JS RATING: 200 A		PHASE: WIRE:		DEMAND FACTO	R: STD	· · ·	LUCATIO	ιν. GU	, , , , , , , , , , , , , , , , , , ,		1			1				IV
(T NO.				СКТКVА	CKT AMPS WIRE SIZE	WIRE LENGTH (FT)	VOLTAGE DROP %	PHASE	VOLTAGE DROP %	WIRE LENGTH (FT)	WIRE SIZE	CKT AMPS	CKT KVA		DESC	RIPTION	USE	CKT NO.	CKT NO
1 3	UNMARKED LOAD UNMARKED LOAD		15/1 20/1					B						80/2 80/2	UNMARKED LOAD	)		2 4	1
5 7	LIGHTS		15/1 70/2				F	3	A					20/1 30/2	UNMARKED LOAD	)		6 8	5
9	UNMARKED LOAD		70/2	4.70		450		A						30/2				10	9
11 13	M M FILL STATION PUMP		70/2 70/2	4.79 4.79	39.92         4           39.92         4	150 150	1.47 1.47	Ą	В						SCADA/STREET L SPACE	IGH 1 5		12 14	11 CONN
15 17	M FILL STATION SUMP	PUMP RECEPTACLE	20/1 20/1	1.00	8.33 10	150	2.19	В	A					SPACE 16 SPACE 18				16 18	PHASE A
19	SPACE	ND KVA	20/1 DEMAN	ID AMPS		LEGEND	E	3							SPACE			20	
ASE A:	4.8 6	5.0	49	9.9	ID LOAD TY		ASSUMED P	F		DROP IS BAS	ED ON THE	E IEEE RED E		ASSUMPTIC					STD DEN REMAIN
IASE B:	5.8 7	7.0	58	8.2	H HVAC L LIGHTIN	3	0.85 0.80			CHAPTER 9 T * PF + X * SIN				POWER FA		D BY LOAD TYPE			AND 50%
D DEMA	ND LOAD BASED ON 125% OF THE	E LARGEST MOTOR AND	100% OF 1	THE	M MOTOR R RECEPT		0.85 0.80			DDITIONAL N D 1.732 FOR			SINGLE	MRE MATE	ERIAL CU				
	G MOTORS, 125% OF CONTINUOUS OF RECEPTACLE LOADS BEYOND T	•	CONTINUC	OUS LOADS,	P PANEL		0.85		R AND X V	ALUES ARE T			CHAPTER						
					O OTHER		0.85		9 TABLE 9.										
						(				EACHATE	TANKS								
CKT #	DESCRIPTION	FI	ROM			ГО	TY	PE		CAI	BLE SIZE					REMARKS			
	1								RNEVILLE			PR	OVIDE COI	NDUCTOF	RS SIZED TO MA	TCH EXISTING.P	ROVIDE 3/	4" RGS INSI	
P-01		PANEL-A			SCADA ENC	LOSURE	PV		De l'anne proventer en en	MATCH EX		FIN	AL CONNE	CTIONS	TO SCADA BY C	COUNTY.			
P-02 P-03		PANEL-A PANEL-A			LIGHT POLE TANK 2		PV PV			2-#12 AWC PULL STRI		D PO	LE AND FI	KTURE IS	TALLED BY COU	JNTY. FINAL CON	INECTIONS	s to fixtur	RE BY COUN
P-04	FILL STATION SUMP PUMP	The second se			FILL STATIO	N RECEPT	PV			3- #10 AW		ND D							
P-05		PANEL-A				STARTER PANEL				3- #4 AWG, #8 GND MANUFACTURE CABLE									
P-06 P-07		STARTER PANEL COMBINER BOX		SCADA ENC		PV PV						OVIDE COI	E CONDUCTORS SIZED TO MATCH EXISTING.						
C-01	FLOW METER SIGNAL	FLOW METER			SCADA ENC	LOSURE	PV	′C	1 INCH	3- #12 AW	G			IDE 6FT OF EXTRA CABLE AT PULL BOX. SCADA CONNECTION BY OTHI IDE 3/4" SS CONDUIT AT TANK.					HERS.
0.00										0 1140 000		14 11-11	PROVIDE 6FT OF EXTRA CABLE AT PULL BOX. SCADA CONNECTION BY OTHERS					IERS.	
C-02	TANK PRESSURE SIGNAL	PRESSURE TRAINSIN	VIII IER (J		OA) SCADA ENC	LUSURE	PV		1 INCH	3- #12 AW	G		OVIDE 3/4" SS CONDUIT AT TANK. OVIDE 3/4" SS CONDUIT AT TANK AND 3/4" RGS INSIDE BUILDING.PROVIDE						
C-03	LEVEL FLOAT SWITCH	FLOAT SWITCH (JUN	ICTION B	OX)	AUTODIALE	२	PV	'C	1 INCH	MATCH EX	ISTING				TO MATCH EXIS			ING.PROVIL	JE
C-04	SPARE	PULL BOX			SCADA ENC	LOSURE	PV	'C	2 INCH	PULL STRI	NG					OF EXTRA CABL		POX SCAF	
C-05	ANTENNA	SCADA ENCLOSURE	Ξ		ANTENNA		PV	'C	1 INCH	MATCH EX	ISTING				SS CONDUIT AT			BUX. SUAL	DA CONNEC
	ر ــــــــــــــــــــــــــــــــــــ							R	OBLAR							TCH EXISTING.F			
P-10	SCADA POWER	PANEL-P			SCADA ENC	LOSURE	PV	'C	1 INCH	MATCH EX	ISTING		UNTY.	NDUCTOR	S SIZED TO IVIA		INAL CONN	NECTIONS IN	U SCADA B
P-11	SITE LIGHTING	PANEL-P			LIGHT POLE		PV	'C	1 INCH	2-#12 AWC	G, #12 GN	D PO	LE AND FI	KTURE IS	TALLED BY COU	JNTY. FINAL CON	INECTIONS	6 TO FIXTUR	E BY COUN
C-10	FLOW METER SIGNAL	FLOW METER			SCADA ENC	LOSURE	PV	'C	1 INCH	3- #12 AW	G				RA CABLE AT PU DUIT AT TANK.	JLL BOX. SCADA	CONNECT	ION BY OTH	IERS.
C-11	TANK PRESSURE SIGNAL	PRESSURE TRANSM	VITTER (J	UNCTION E	OX) SCADA ENC	LOSURE	PV	′C	1 INCH	3- #12 AW	G				RA CABLE AT PU DUIT AT TANK.	JLL BOX. SCADA		ION BY OTH	HERS.
0-11	LEVEL FLOAT SWITCH	FLOAT SWITCH (JUN	ICTION B	OX)	AUTODIALE	२	PV	′C	1 INCH	EXISTING						SPLICE AND EXTE	END CABLE	ES AS NEED	DED.
C-12	SPARE	PULL BOX			SCADA ENC	LOSURE	PV	′C	2 INCH	PULL STRI	NG								
C-12	ANTENNA	SCADA ENCLOSURE	Ξ		ANTENNA		PV	'C	1 INCH	MATCH EX	ISTING				SS CONDUIT AT	OF EXTRA CABL TANK.	E AT PULL	BUX. SCAL	DA CONNEC
C-12	100A FEEDER	METER/MAIN PANEL			PANEL-B		PV		ONOMA 2 INCH	3- #4 AWG	#0 010								
C-12 C-13 C-14		PANEL-B	L		STARTER P	NEL	PV PV			3- #4 AWG 3- #4 AWG									
C-12 C-13	FILL STATION PANEL				FILL STATIO		PV			3- #10 AW	,								
C-12 C-13 C-14 P-20 P-21 P-22	FILL STATION SUMP PUMP				FILL STATIO	a prose a concrete mese	PV PV			MANUFAC	A sole set accord soles is use		OVIDE STI	IB UP AN	D CAP BELOW	STARTER PANE	 .L.		
C-12 C-13 C-14 P-20 P-21	FILL STATION SUMP PUMP FILL STATION PUMP	STARTER PANEL PANEL-B			SCADA ENC		RG			MATCH EX		PR	OVIDE PO			MATCH EXISTING		NNECTION	TO SCADA
C-12 C-13 C-14 P-20 P-21 P-22 P-23 P-24	FILL STATION SUMP PUMP FILL STATION PUMP SPARE	PANEL-B				LOCONE						BY	COUNTY.						
C-12 C-13 C-14 P-20 P-21 P-22 P-23	FILL STATION SUMP PUMP FILL STATION PUMP SPARE													OF EXTR					
C-12 C-13 C-14 P-20 P-21 P-22 P-23 P-24 P-25	FILL STATION SUMP PUMP FILL STATION PUMP SPARE SCADA POWER	PANEL-B PANEL-B						/6		3_ #12 AVA	G					JLL BOX. SCADA	CONNECT	ION BY OTH	HERS.
C-12 C-13 C-14 P-20 P-21 P-22 P-23 P-24	FILL STATION SUMP PUMP FILL STATION PUMP SPARE SCADA POWER	PANEL-B			SCADA ENC	LOSURE	PV	′C	1 INCH	3- #12 AW	G	PR	OVIDE 3/4"		DUIT AT TANK.				
C-12 C-13 C-14 P-20 P-21 P-22 P-23 P-24 P-25	FILL STATION SUMP PUMP FILL STATION PUMP SPARE SCADA POWER FLOW METER SIGNAL	PANEL-B PANEL-B	MITTER (J	UNCTION E	SCADA ENC		PV PV			3- #12 AW 3- #12 AW		PR PR	OVIDE 3/4" OVIDE 6FT	OF EXTR	DUIT AT TANK.	JLL BOX. SCADA			
C-12 C-13 C-14 P-20 P-21 P-22 P-23 P-24 P-25 C-20 C-20	FILL STATION SUMP PUMP FILL STATION PUMP SPARE SCADA POWER FLOW METER SIGNAL TANK PRESSURE SIGNAL LEVEL FLOAT SWITCH	PANEL-B PANEL-B FLOW METER PRESSURE TRANSM FLOAT SWITCHES (J			SCADA ENC SOX) SCADA ENC AUTODIALEF	LOSURE	PV PV	/C (	1 INCH 3/4 INCH	3- #12 AW	G	PR PR PR	OVIDE 3/4" OVIDE 6FT OVIDE 3/4"	OF EXTR	DUIT AT TANK. RA CABLE AT PU DUIT AT TANK.		A CONNECT	ION BY OTH	
C-12 C-13 C-14 P-20 P-21 P-22 P-23 P-24 P-25 C-20	FILL STATION SUMP PUMP FILL STATION PUMP SPARE SCADA POWER FLOW METER SIGNAL TANK PRESSURE SIGNAL LEVEL FLOAT SWITCH SPARE	PANEL-B PANEL-B FLOW METER PRESSURE TRANSM	JUNCTION		SCADA ENC	LOSURE	PV		1 INCH 3/4 INCH 2 INCH	3- #12 AW	G NG	PR PR PR PR	OVIDE 3/4' OVIDE 6FT OVIDE 3/4' OVIDE 3/4'	OF EXTR SS CON SS CON	DUIT AT TANK. RA CABLE AT PU DUIT AT TANK. DUIT AT TANK.S	JLL BOX. SCADA	A CONNECT	TON BY OTH	IERS.

GT GT 07/18/2024 Conformed Drawings Checked Approved Date No. Issue Drafting Check MGK Project Manager G. TOMASINO Author EAO Designer EAO Design Check **RPG** Project Director M. KENNEDY

CONFORMED DRAWINGS

Plot Date: 18 July 2024 - 3:29 PM

Plotted By: Steven Toft

							NE	W PANI	EL-SONOM	IA SITE								
PA	NEL NAME	В	VOLTAGE:	240/120	NEM	MA RATING:	3R		MOUNTING	:	SURFACE		NOTES:	EXISTING	LOADS SHOWN IN	ITALIC, NEW LOADS ARE SHOWN	BOLD.	
MAII	<b>NS RATING</b>	: 100 A MCB	PHASE:	1	A	IC RATING:	10000		LOCATION	: 5	SONOMA SIT	E						
Bl	JS RATING	: 100 A	WRE:	3	DEMAN	D FACTOR:	STD											
CKT NO.	USE	DESCRIPTION	BKR SIZE	СКТКVА	CKT AMPS	WIRE SIZE	WIRE LENGTH (FT)	VOLTAGE DROP %	PHASE	VOLTAGE DROP %	WIRE LENGTH (FT)	WIRE SIZE	CKT AMPS	СКТКVА	BKR SIZE	DESCRIPTION	USE	CKT NO.
1	0	EXISTING SCADA	15/1	1.00	8.33				A						20/1	SPARE		2
3	0	AREA LIGHTING	15/1	1.00	8.33				В						20/1	SPARE		4
5	М	-FILL STATION PUMP	70/2	4.79	39.92	4	20	0.20	A	A					20/1	SPARE		6
7	М		70/2	4.79	39.92	4	20	0.20	В						20/1	SPARE		8
9	М	FILL STATION SUMP PUMP RECEPTACLE	20/1	1.00	8.33	12	20	0.48	А						20/1	SPARE		10
11		SPARE	20/1						E	3					20/1	SPARE		12
CONNECTED KVA DEMAND KVA DEMAND AMPS			D AMPS	USE LEGEND						VOLTAGE DROP CALCULATION								
PHASE A:	6.8	8.0	66	5.6	ID	LOAD TYPE		ASSUMED I	РF	VOLTAGE D	OROP IS BAS	ED ON THE	E IEEE RED E	BOOK AND	ASSUMPTIONS:			
PHASE B:	5.8	3 7.0	58	3.2	Н	HVAC		0.85		2011 NEC 0	CHAPTER 91	TABLE 9 FC	ORMULA:		POWER FACTOR	VARIED BY LOAD TYPE		
					]L	LIGHTING		0.80		VD = I * ( R	* PF + X * SII	N(ACOS(PF	F)) * L		CONDUIT TYPE	RGS		
		ASED ON 125% OF THE LARGEST MOTOR AN			М	MOTOR		0.85		WITH AN AI	DITIONAL N	NULTIPLIEF	R OF 2 FOR S	SINGLE	WIRE MATERIAL	CU		
					R	RECEPTAC	LE	0.80		PHASE AND	0 1.732 FOR	3-PHASE L	OADS					
		125% OF CONTINUOUS LOADS, 100% OF NOI		US LUADS,	Р	PANEL		0.85		R AND X VA	LUES ARE T	TAKEN FRC	OM 2011 NEC	CHAPTER				
		ACLE LOADS BEYOND THE FIRST 10KVA			0	OTHER		0.85		9 TABLE 9.								

Bar is one inch on original size sheet 0 1"





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# Client COUNTY OI

Project LEACHATE

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OF SONOMA		Size ANSI D
E TANK REPLACEMEN	т	
Date <b>7/18/2024</b>	Scale AS SHOWN	Drawing No. Sheet No. E-602 48 of 48