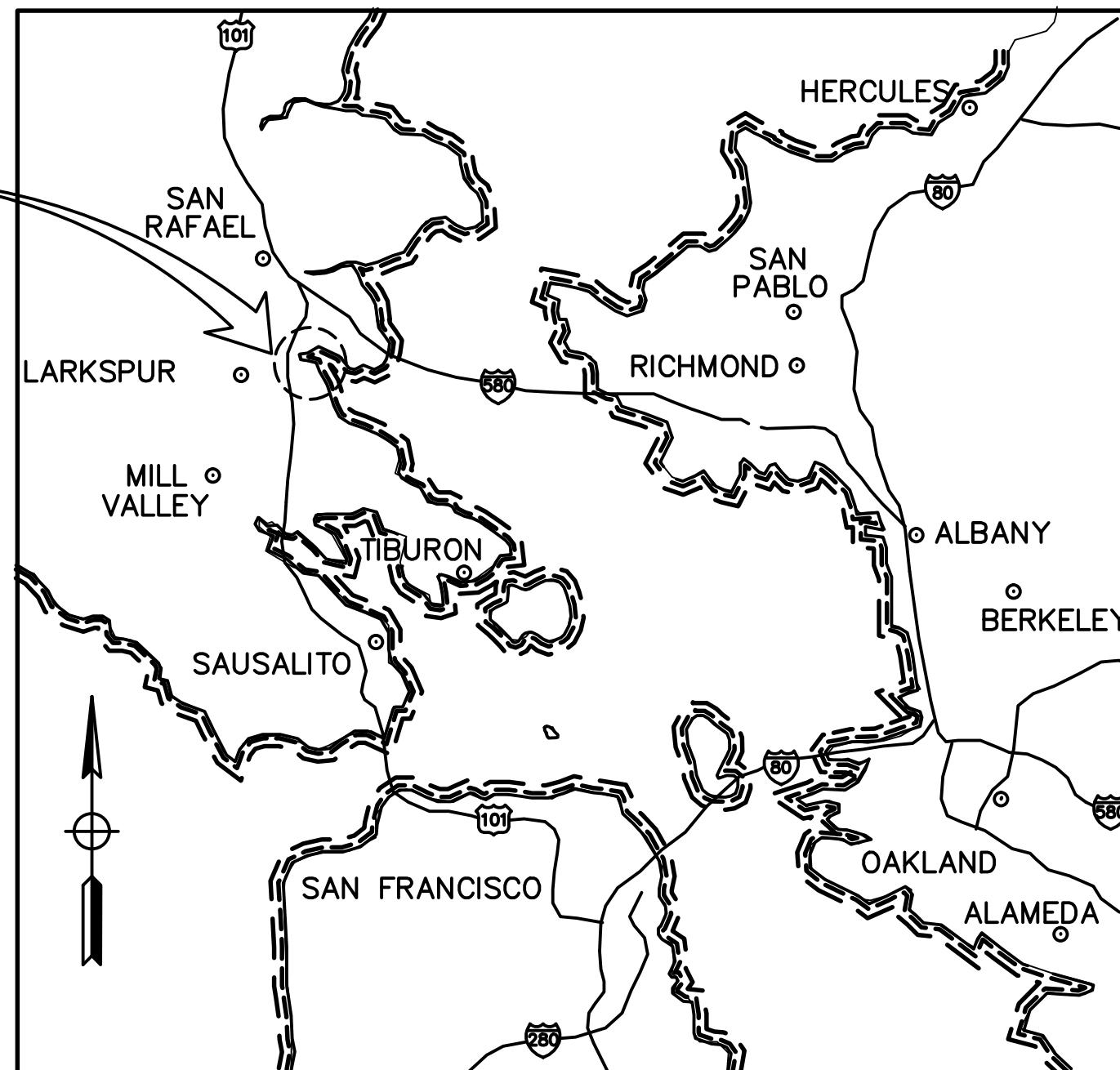


Golden Gate Bridge, Highway and Transportation District

LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS

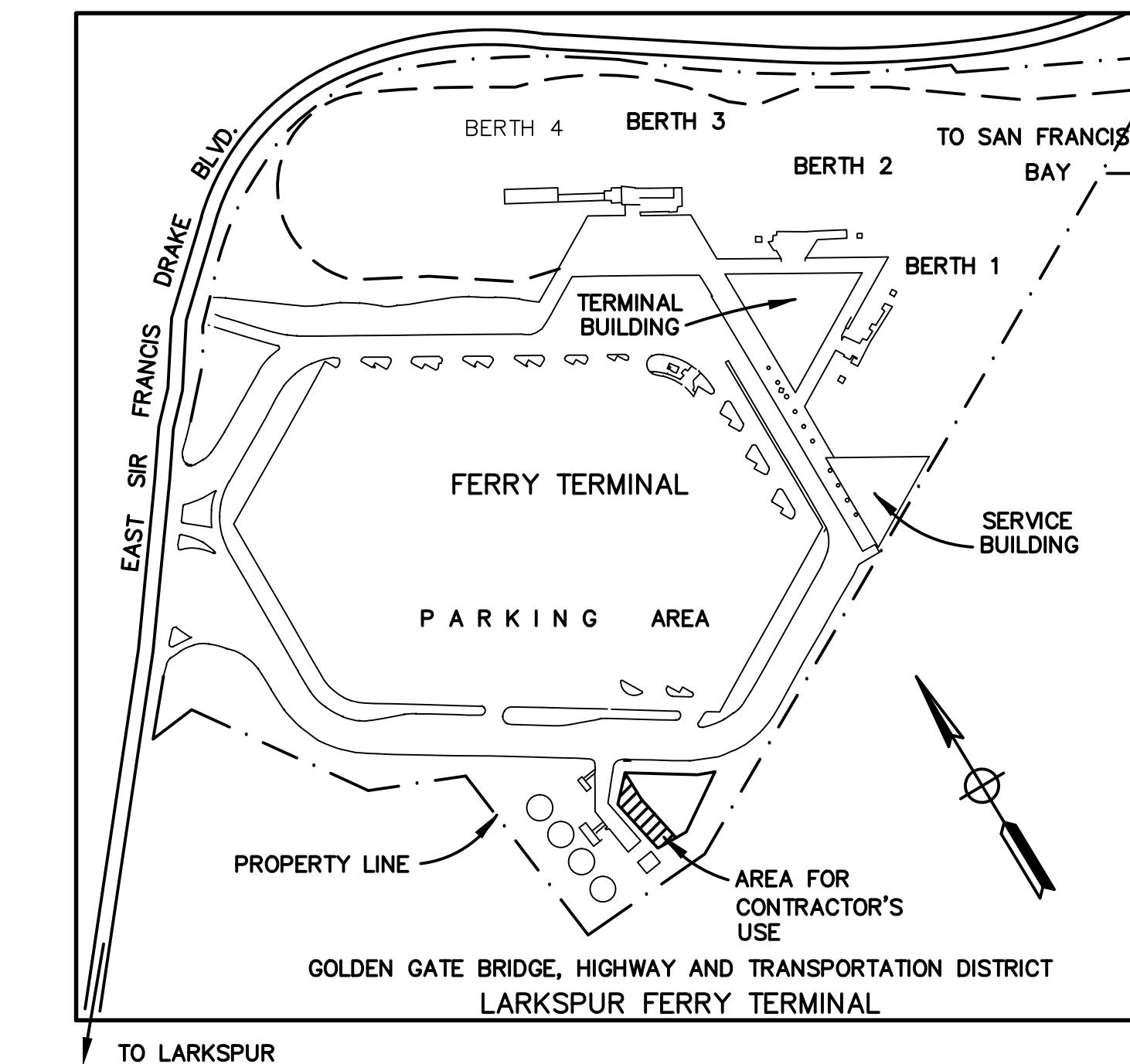
Contract No. 97-FT-2

PROJECT SITE



VICINITY MAP

NO SCALE



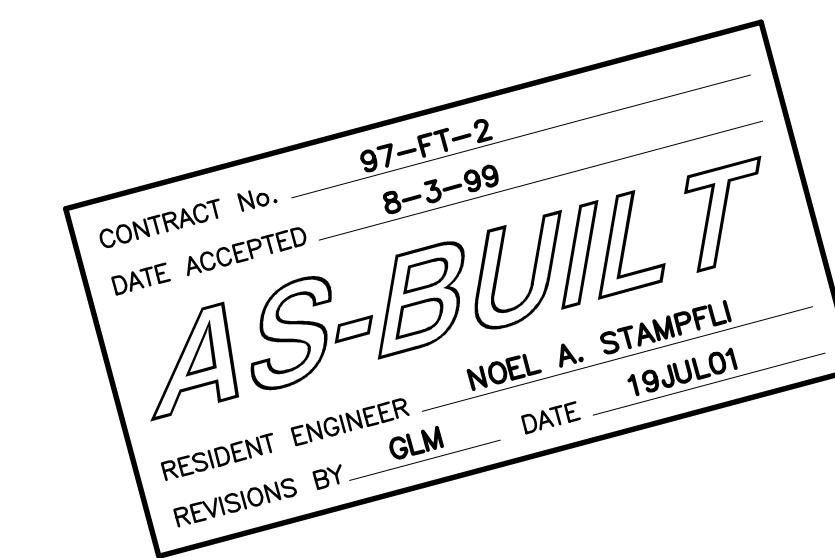
LOCATION PLAN

NO SCALE

DETAIL / SECTION DESIGNATION

- INDICATES SECTION, ELEVATION, OR PLAN LETTER
- INDICATES SHEET NUMBER WHERE SECTION, ELEVATION, OR PLAN IS SHOWN
- INDICATES SHEET NUMBER WHERE SECTION, ELEVATION, OR PLAN IS REFERENCED

- INDICATES DETAIL NUMBER
- INDICATES SHEET NUMBER WHERE DETAIL IS SHOWN
- INDICATES SHEET NUMBER WHERE DETAIL IS REFERENCED



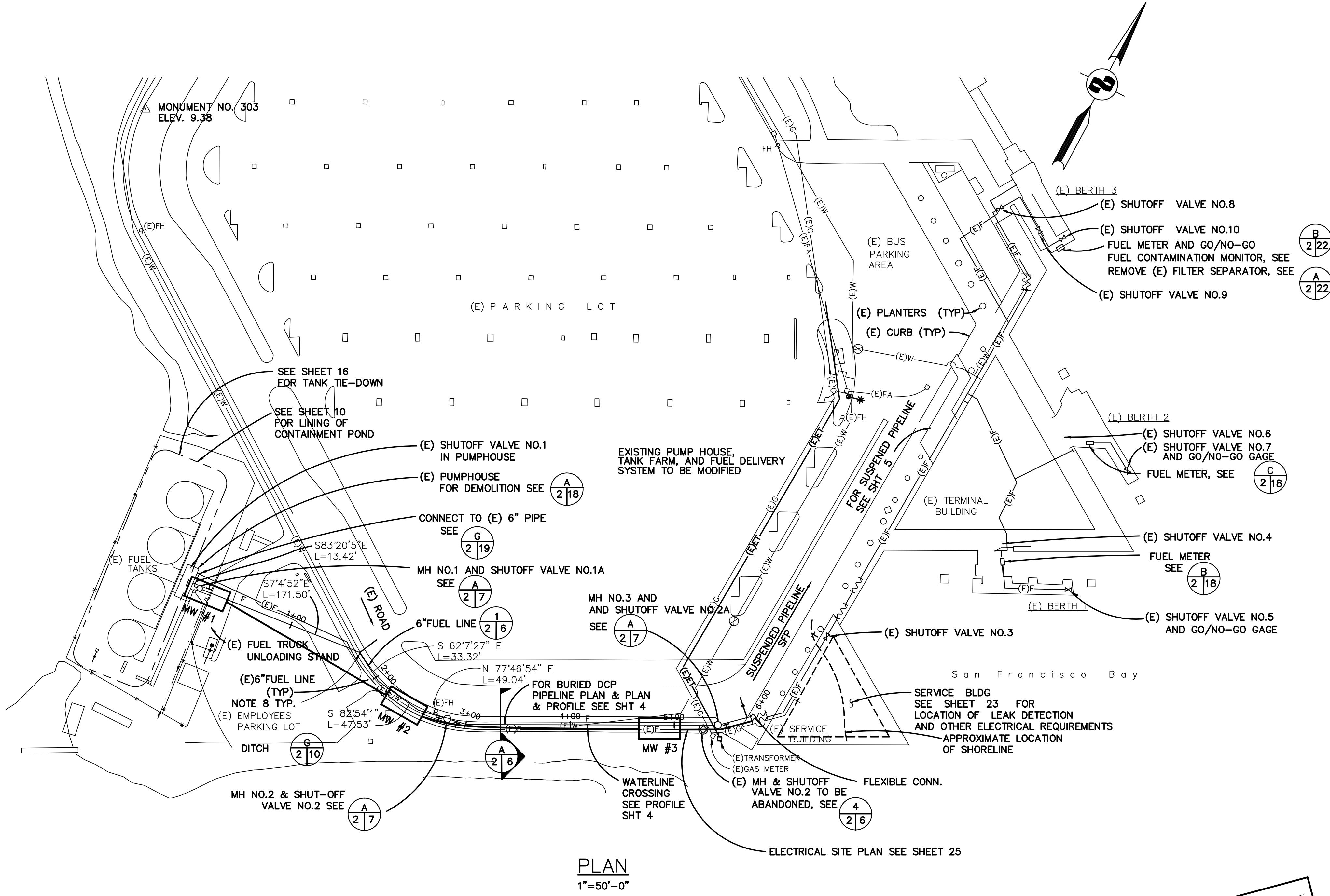
WINZLER & KELLY
CONSULTING ENGINEERS
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

APPROVED BY		
BENJAMIN C. GIACONI, P.E.		
No. 21548 Exp. 9-30-97		
CIVIL STATE OF CALIFORNIA		
DISTRICT ENGINEER		
1	AS-BUILT - NO CHANGE	GM 7/19/01
NO.	REVISIONS	BY DATE
CONTRACT NO. 97-FT-2		
CAD FILE 97F02P01AB.DWG		
SHEET	1 OF 29	DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT		
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS		
TITLE SHEET		
DESIGNED BY SF/AD	CHECKED BY MDK	DRAWN BY DK/PVB
SCALE AS SHOWN	DATE	2-17-98

DRAWING SCHEDULE

DRAWING NO.	DRAWING TITLE
1	TITLE SHEET
2	SITE PLAN
3	LOG OF TEST BORINGS
4	BURIED FUEL OIL PIPELINE - PUMP HOUSE TO TERMINAL
5	FUEL OIL PIPELINE - TERMINAL TO LAYUP BERTHS
6	CONSTRUCTION DETAILS
7	FUEL MANHOLES
8	CONSTRUCTION DETAILS
9	TANK SECONDARY CONTAINMENT - EXISTING CONDITION
10	STORAGE TANK AREA - CONTAINMENT DIKE
11	MISCELLANEOUS DETAILS
12	TRUCK UNLOADING STAND - CONTAINMENT DIKE
13	TANK SECONDARY CONTAINMENT
14	TANK SECONDARY CONTAINMENT - DETAIL
15	TANK SECONDARY CONTAINMENT - PIPING DETAIL
16	TANK TIE-DOWN & MISC DETAILS.
17	FUEL OIL FLOW DIAGRAM.
18	PUMP ROOM PIPING/EQUIPMENT - DEMOLITION
19	PUMP ROOM PIPING/EQUIPMENT - NEW WORK
20	PUMP ROOM PIPING/EQUIPMENT - DETAILS
21	EXHAUST FAN, ROOFING & WALL SEALANT DETAILS
22	PIPING DETAILS
23	ELECTRICAL - SITE PLAN
24	DATA ACQUISITION & ALARM
25	ELECTRICAL DETAILS - SHEET 1
26	POWER SYSTEM MODIFICATION - SHEET 1
27	SYSTEMS BLOCK WIRING DIAGRAMS - SHEET 1
28	CATHODIC PROTECTION SYSTEM DESIGN
29	CATHODIC PROTECTION DETAILS



ABBREVIATIONS:

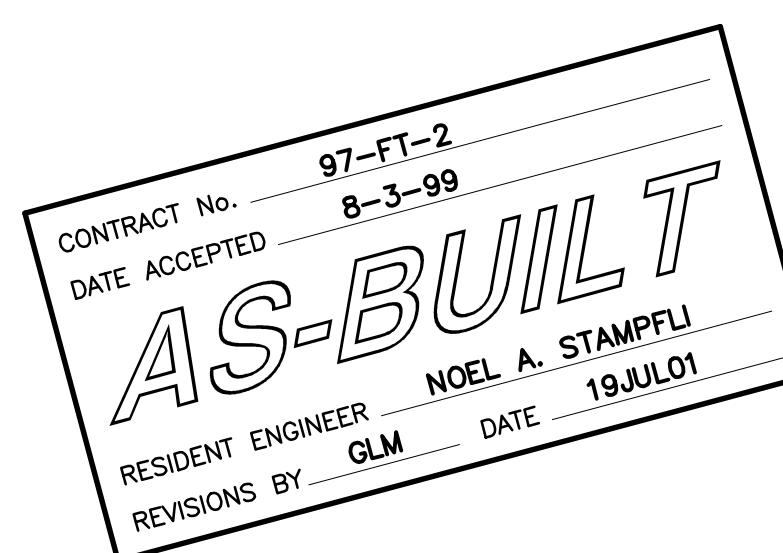
ADAS — AUTOMATED DATA ACQUISITION SYSTEM
BOL — BOTTOM OF LINE
MH — MANHOLE
DCP — FIBERGLASS REINFORCED DOUBLE CONTAINMENT PIPING
SFP — SUSPENDED FUEL PIPING
(N) — NEW
(E) — EXISTING

LEGEND:

○- (E)FH	EXISTING FIRE HYDRANT
○- (E)GV	GATE VALVE & VALVE BOX
— (E)W —	EXISTING DOMESTIC & FIRE WATER
— (E)FA —	EXISTING FIRE ALARM
— (E)G —	EXISTING GAS
— (E)F —	EXISTING FUEL LINE
— (N)F —	NEW FUEL LINE
○- (E)PV	PLUG VALVE & VALVE BOX
— (E)FC —	FLEXIBLE CONNECTION
○ FOMH	FUEL LINE MANHOLE
* * * *	EXISTING SECURITY FENCE
T	LEAK DETECTION SENSOR AND WELL
—	NEW FUEL PIPELINE
• • • • •	EXISTING FUEL PIPELINE TO BE ABANDONED IN PLACE
/// / / / /	EXISTING PIPELINE UNDER PEIR TO BE REFURBISHED
X.XX TC	NEW TOP OF CONCRETE ELEVATION
X.XX FL	NEW FLOW LINE ELEVATION

NOTES:

1. THE NEW BURIED FUEL PIPELINE CONSISTS OF 6 INCH PRIMARY AND 8 INCH SECONDARY CONTAINMENT NOMINAL DIAMETER FIBERGLASS DOUBLE CONTAINMENT PIPING.
 2. THE EXISTING BURIED FUEL PIPING IS TO BE ABANDONED IN PLACE. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
 3. THE EXISTING SUSPENDED FUEL PIPING BELOW THE STRUCTURES IS TO BE REFURBISHED AND ALL PIPE HANGERS ARE TO BE REPLACED
 4. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF THE EXISTING UTILITIES PRIOR TO EXCAVATION FOR NEW PIPELINE.
 5. ONE LANE OF THE EXISTING ROAD ADJACENT TO WORK AREA TO REMAIN OPEN TO VEHICULAR TRAFFIC AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO PROVIDE TRAFFIC CONTROL PLAN
 6. NOT USED
 7. FIELD VERIFY ALL PIPE DIMENSIONS BEFORE PIPE FABRICATION.
 8. ALL ELBOWS TO BE LONG RADIUS TRIMMED TO SUIT ACTUAL FIELD ALIGNMENT.
 9. ONLY TWO FUEL STORAGE TANKS CAN BE TAKEN OUT OF SERVICE AT A TIME.

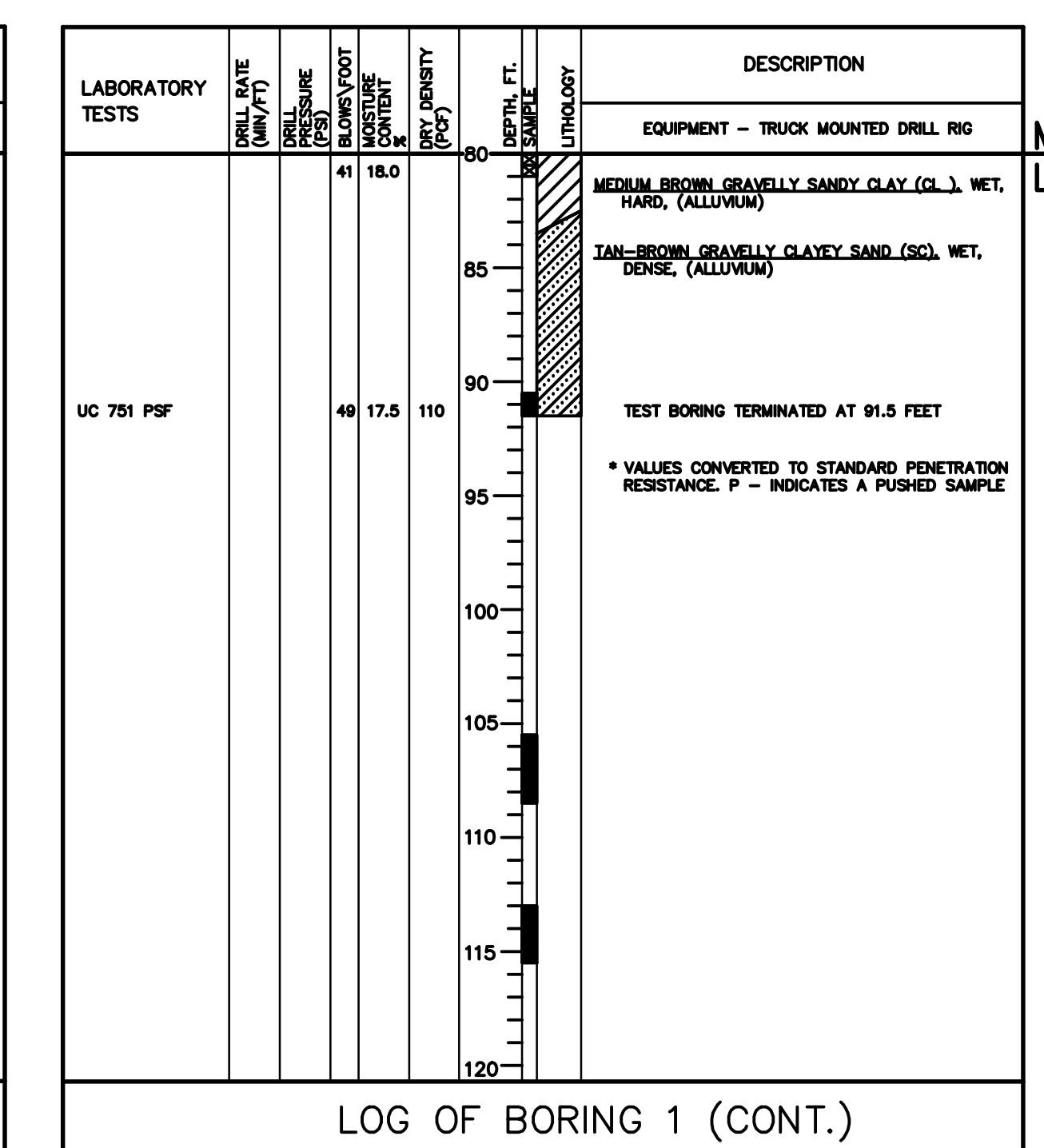
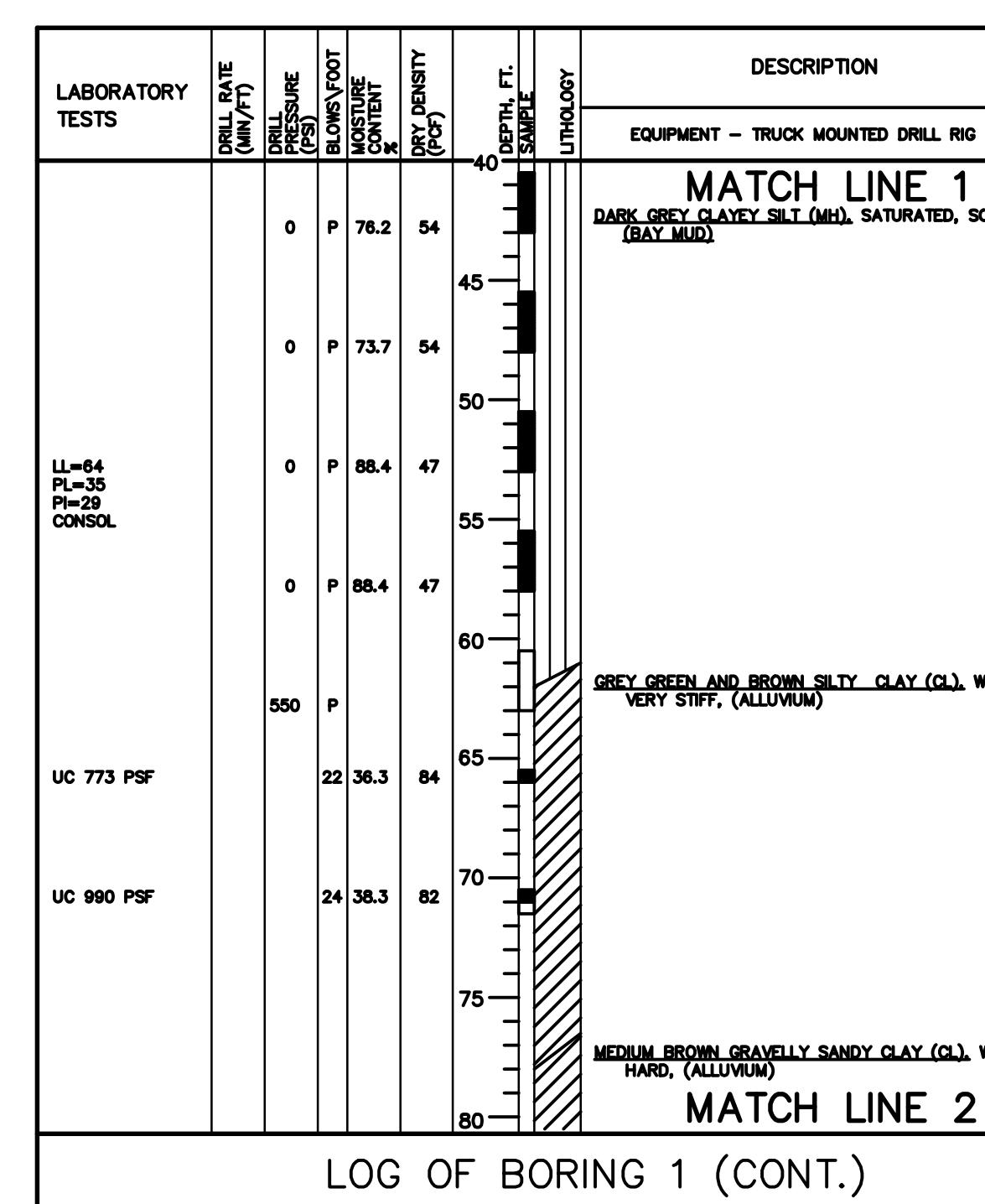
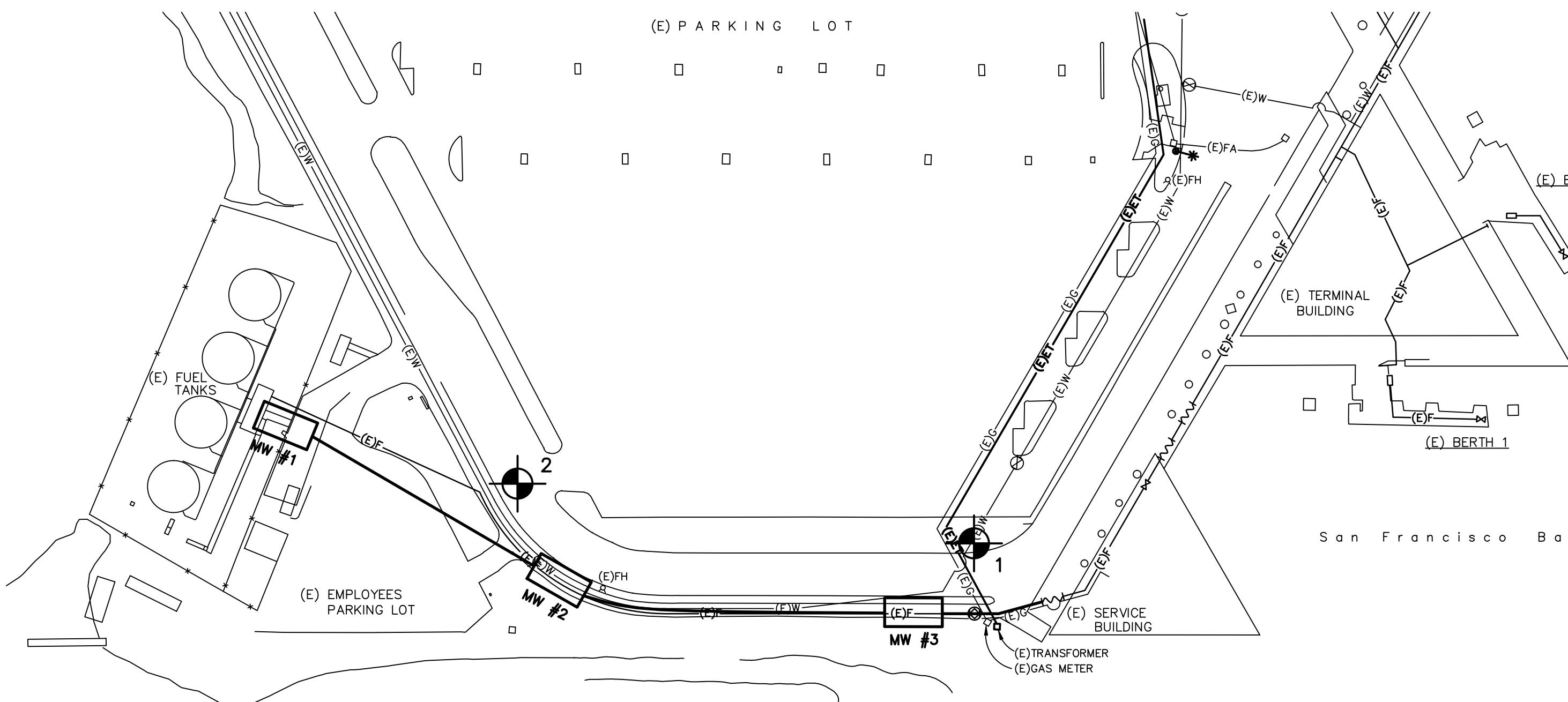


**W I N Z L E R & K E L L Y
C O N S U L T I N G E N G I N E E R S**

50'	0'	50'	100'																
=50'																			
<p>WINZLER & KELLY CONSULTING ENGINEERS</p> <p>200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104 (415) 283-4970 FAX (415) 283-4980</p>																			
<table border="1"> <thead> <tr> <th>NO.</th> <th>AS-BUILT</th> <th>GM</th> <th>7/19/01</th> </tr> <tr> <th colspan="2">REVISIONS</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td colspan="2">CONTRACT NO. 97-FT-2</td> <td>SHEET</td> <td>2 OF 29</td> </tr> <tr> <td colspan="2">CAD FILE 97F02P02AB.DWG</td> <td>DATE</td> <td>2-17-98</td> </tr> </tbody> </table>				NO.	AS-BUILT	GM	7/19/01	REVISIONS		BY	DATE	CONTRACT NO. 97-FT-2		SHEET	2 OF 29	CAD FILE 97F02P02AB.DWG		DATE	2-17-98
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CAD FILE 97F02P02AB.DWG		DATE	2-17-98																
<p>APPROVED BY</p> <p>DISTRICT ENGINEER</p>																			
<p>GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT</p> <p>LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS</p> <p>SITE PLAN</p>																			
<p>DESIGNED BY AJD CHECKED BY MDK DRAWN BY DK</p> <p>SCALE AS SHOWN DATE 2-17-98</p>																			



**TEST BORING BY JOHN C HOM &
ASSOCIATES, INC**

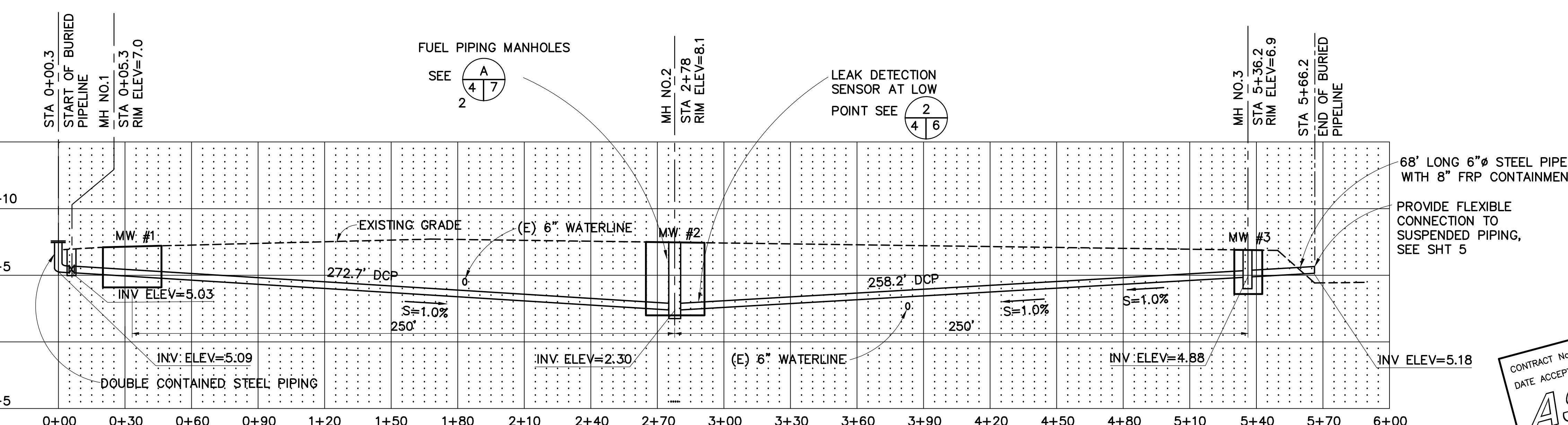
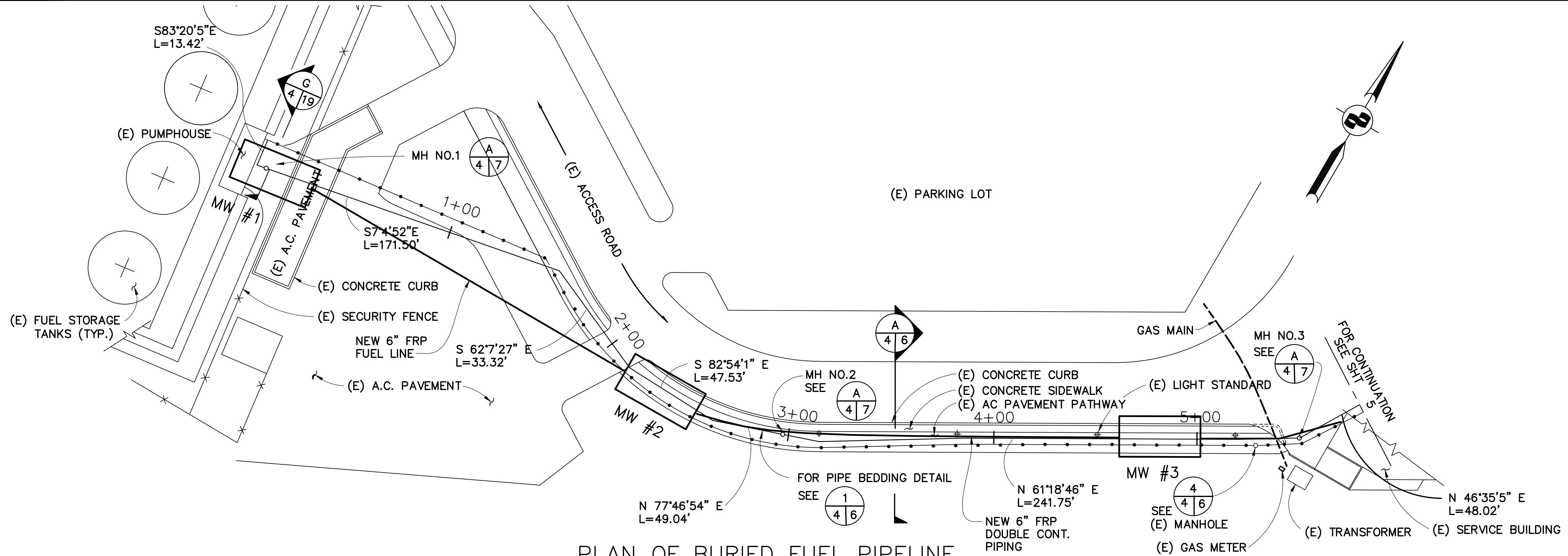


LABORATORY TESTS	DRILL RATE (MIN/FT)	DRILL PRESSURE (PSI)	BLOWS/FOOT	MOISTURE CONTENT %	DRY DENSITY (PCF)	DEPTH, FT.	SAMPLE	LITHOLOGY	DESCRIPTION
									EQUIPMENT - TRUCK MOUNTED DRILL RIG
						0			MEDIUM BROWN SANDY SILTY CLAY (CL), MOIST MEDIUM STIFF, (FILL) ORANGE-GREY-BROWN GRAVELLY CLAYEY SAND (SC), MOIST, LOOSE, (FILL) DARK BROWN SANDY CLAY (CL), WET, MEDIUM STIFF, (FILL) WATER LEVEL (5/13/94-9:15AM)
						5	X		GREY GRAVELLY SANDY CLAY (CL), SATURATED, SOFT, (FILL) LARGE BOULDERS IN FILL FROM 10-15 FEET
						10	X		DARK GREY CLAYEY SILT (MH), SATURATED, SOFT, (BAY MUD)
						15			
UC 248 PSF LL=70 PL=37 PI=33	0	P	88.1	49	20				
						25			
						30			
UC 350 PSF	0	P	74.8	55	35				
						40			
						45			GREEN-GREY CLAYEY SILT (MH), SATURATED, SOFT, (BAY MUD) WITH PEAT
						50			
						55			
UC 691 PSF LL=80 PL=39 PI=41	0	P	73.8	52	60				MOLDED OLIVE GREEN AND LIGHT GREY GRAVELLY SANDY CLAY (CL), SATURATED, STIFF, (ALLUVIUM)
UC 751 PSF	0	P	24.0	101					
UC 1037 PSF	48/11"		18.2	114	65				ORANGE-BROWN SANDSTONE, SOFT, FRIABLE, HIGHLY WEATHERED, (BEDROCK)
						70			TEST BORING TERMINATED AT 66.42 FEET
UC 990 PSF	24		38.3	82	75				
					80				

LOG OF BORING 2

LOG OF BORING 2

CONTRACT No.		97-FT-2
DATE ACCEPTED		8-3-99
AS-BUILT		
REVISIONS BY	GLM	NOEL A. STAMPFLI
RESIDENT ENGINEER	DATE	19JUL01



97-FT-2
8-3-99
AS-BUILT
CONTRACT NO. DATE ACCEPTED
RESIDENT ENGINEER NOEL A. STAMPFLI
REVISIONS BY GLM DATE 19JUL01

1"=30' 30' 0' 30' 60'
1"=5' 5' 0' 5' 10'

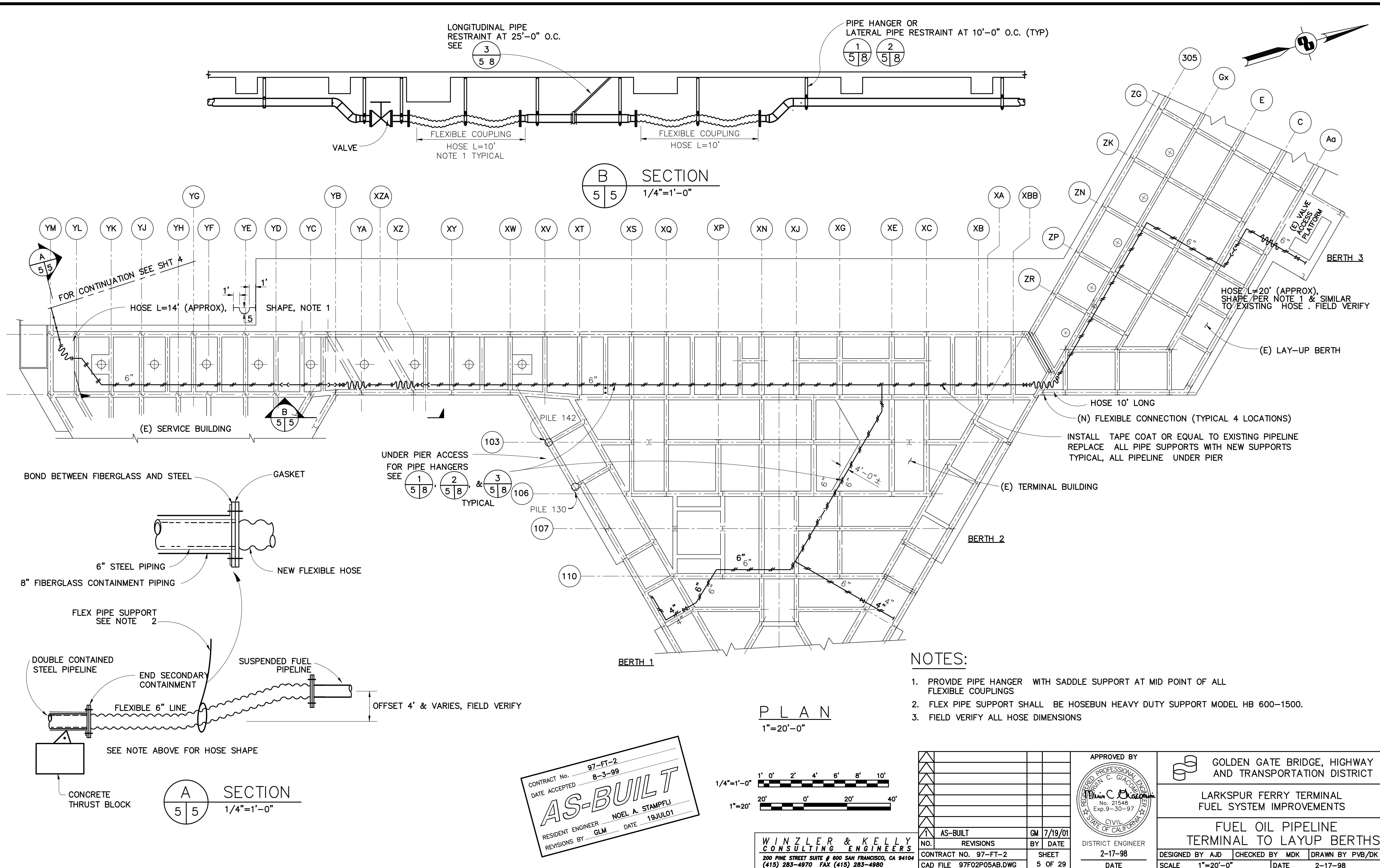
APPROVED BY
REG. PROFESSIONAL ENGINEER
DAVIN C. GIACOMINI
No. 21548
Exp. 9-30-97
CIVIL
STATE OF CALIFORNIA
DISTRICT ENGINEER
2-17-98

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

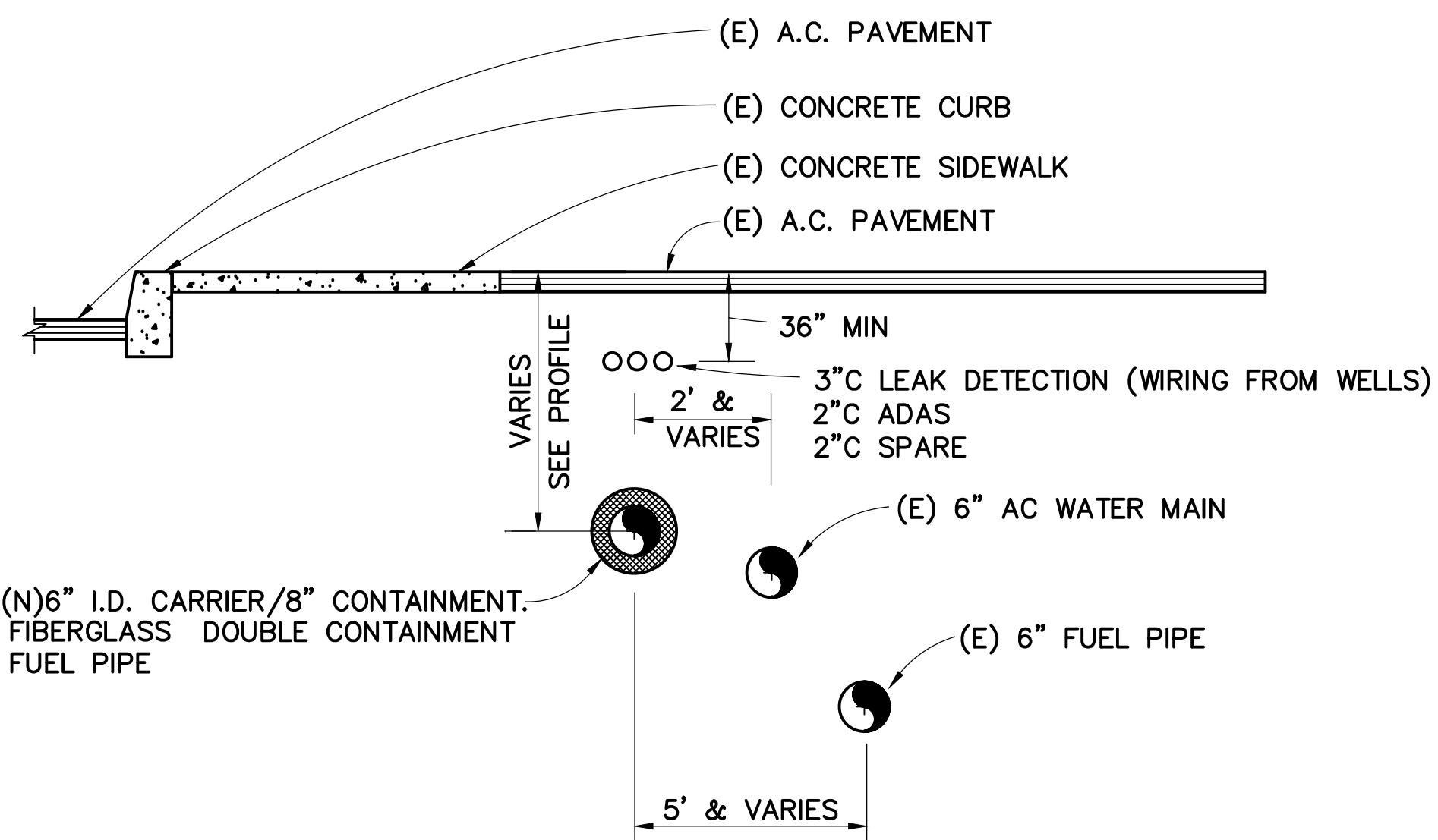
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS

BURIED FUEL OIL PIPELINE PUMP HOUSE TO TERMINAL

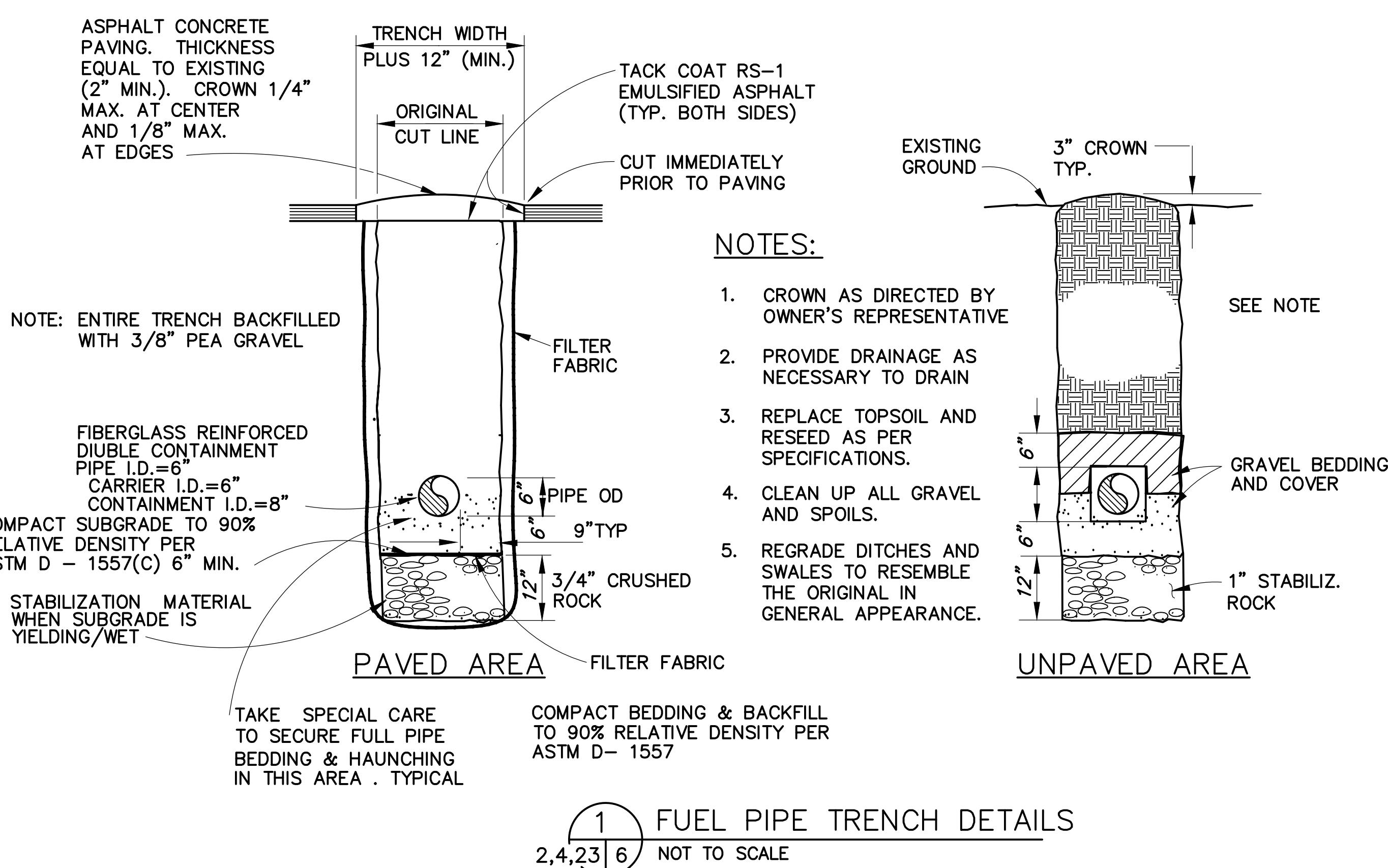
WINKLER & KELLY CONSULTING ENGINEERS	AS-BUILT	GM	7/19/01
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104	NO.	REVISIONS	BY DATE
(415) 283-4970 FAX (415) 283-4980	CONTRACT NO.	97-FT-2	SHEET
	CAD FILE	97F02P04AB.DWG	4 OF 29
	DATE		
DESIGNED BY AJD	CHECKED BY MDK	DRAWN BY DK	
SCALE AS SHOWN	DATE	2-17-98	



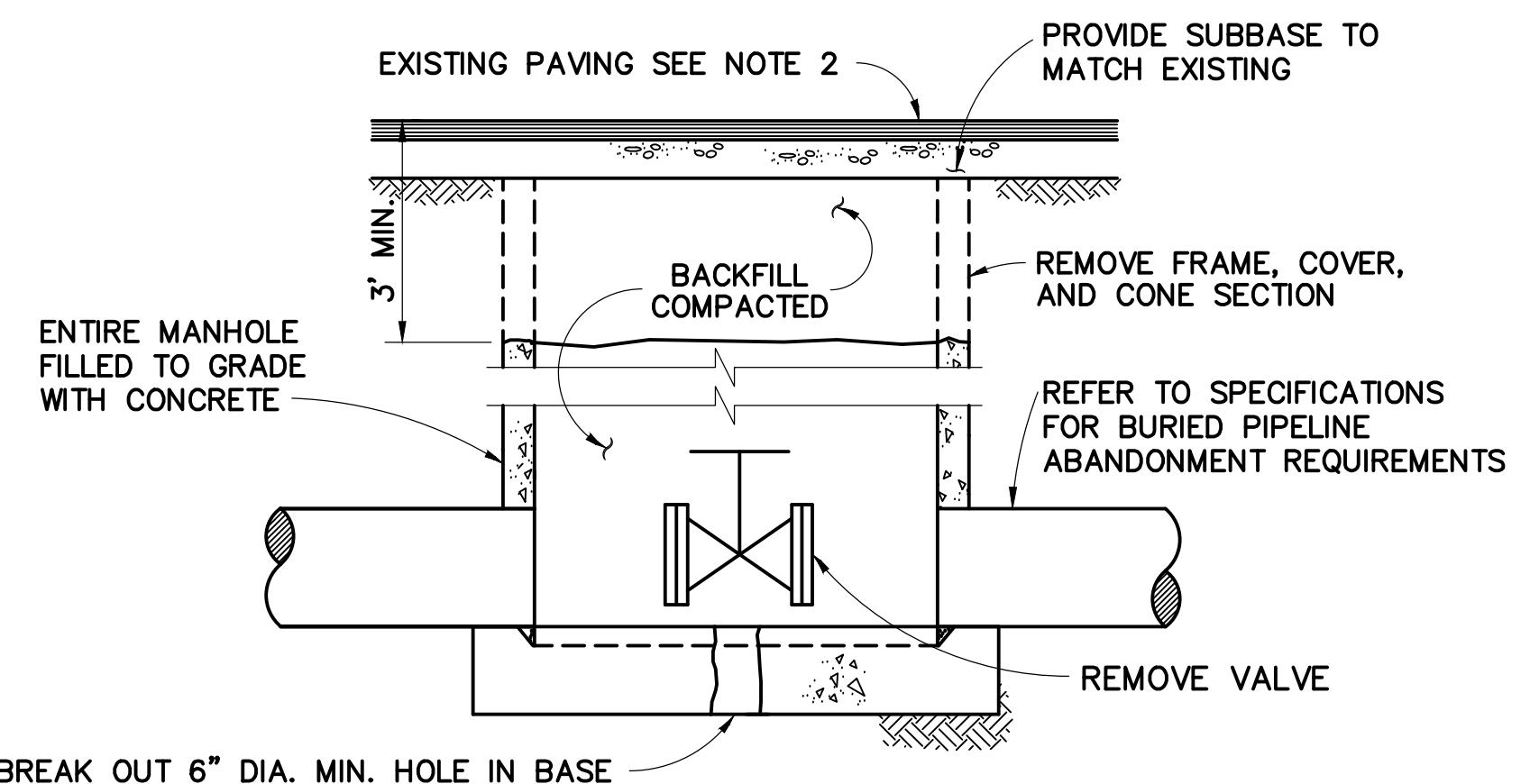
NOTE: CONTRACTOR TO REPLACE DAMAGED SIDEWALK AND REPAIR LANDSCAPING/IRRIGATION SYSTEM BEHIND SIDEWALK IN TRENCHING WORK ZONE.



A SECTION
2,4 | 6 NOT TO SCALE

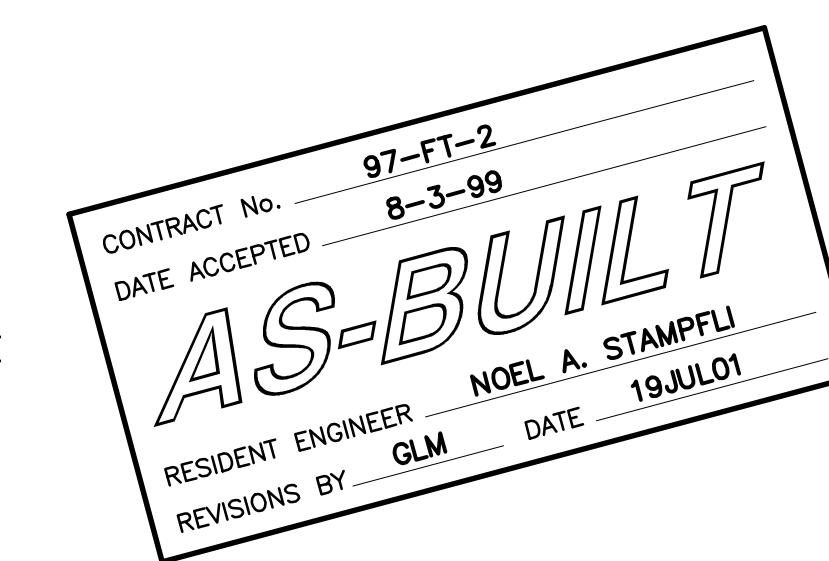
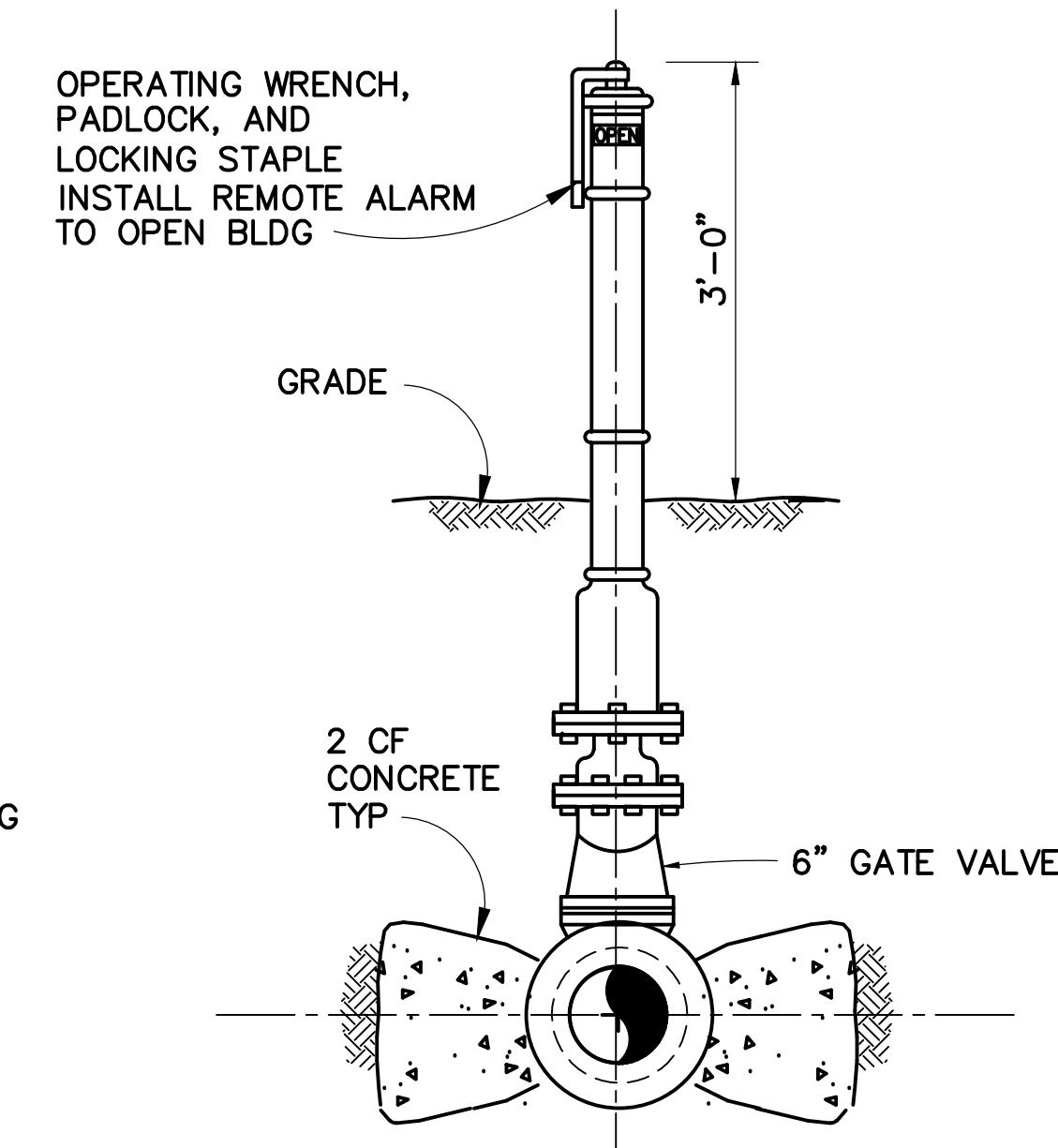


FUEL PIPE TRENCH DETAILS
2,4,23 | 6 NOT TO SCALE



- NOTES:**
1. AFTER REMOVING VALVE AND PLUGGING PIPES IN MANHOLE THE REMAINING PORTION OF THE BARREL SECTION AND ALL VOIDS CREATED BY THE REMOVAL OF THE MANHOLE TOP SECTION SHALL BE BACKFILLED AND COMPAKTED TO 90% RELATIVE DENSITY.
 2. FINISHED SURFACE TO MATCH EXISTING PATHWAY SURFACE

ABANDONED MANHOLE
2,4 | 6 NOT TO SCALE

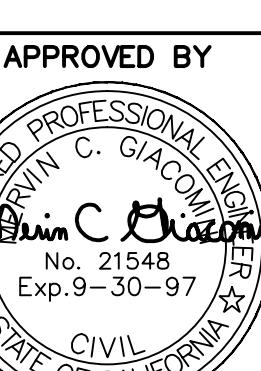


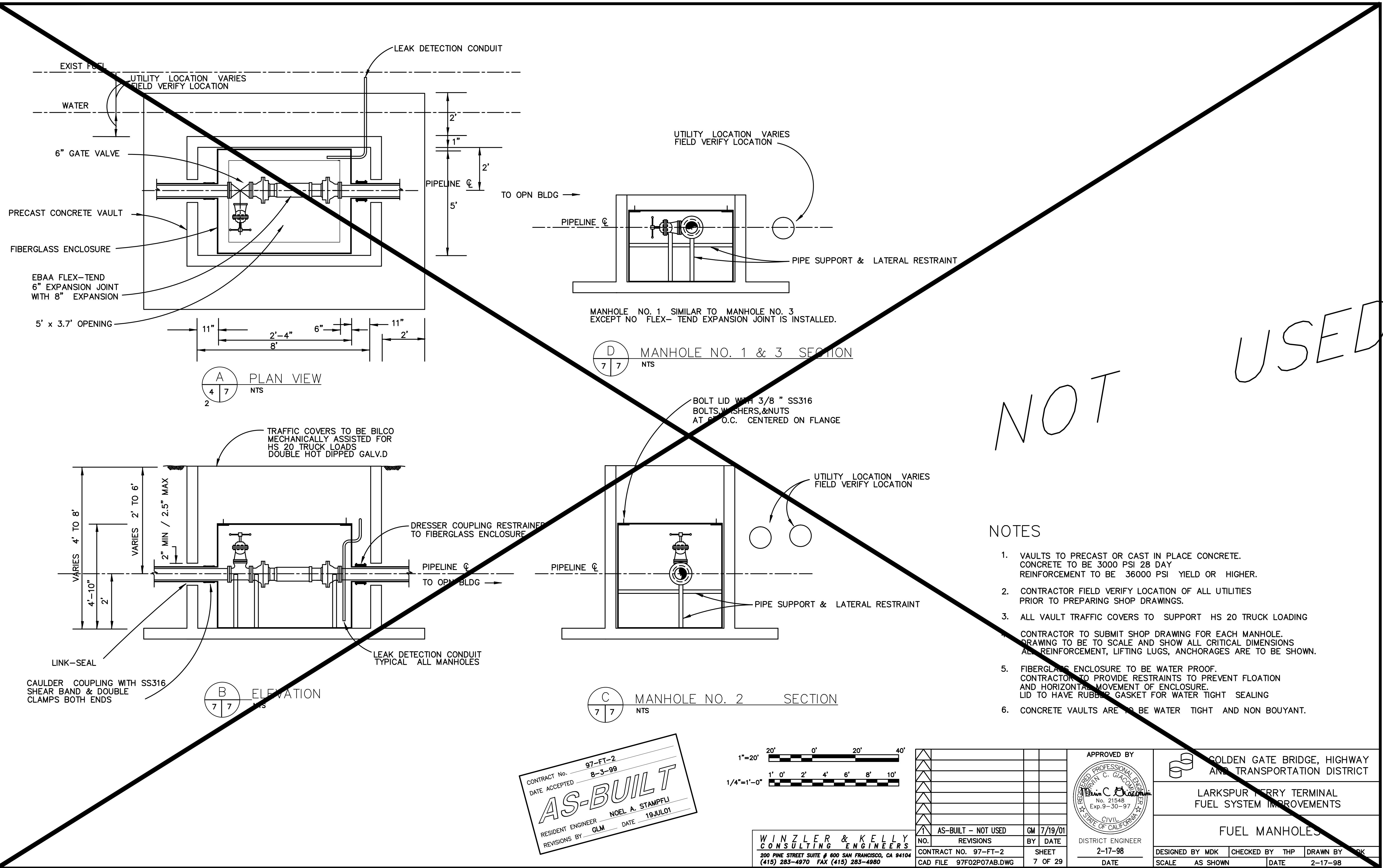
E POST INDICATOR VALVES
10,12 | 6 NOT TO SCALE

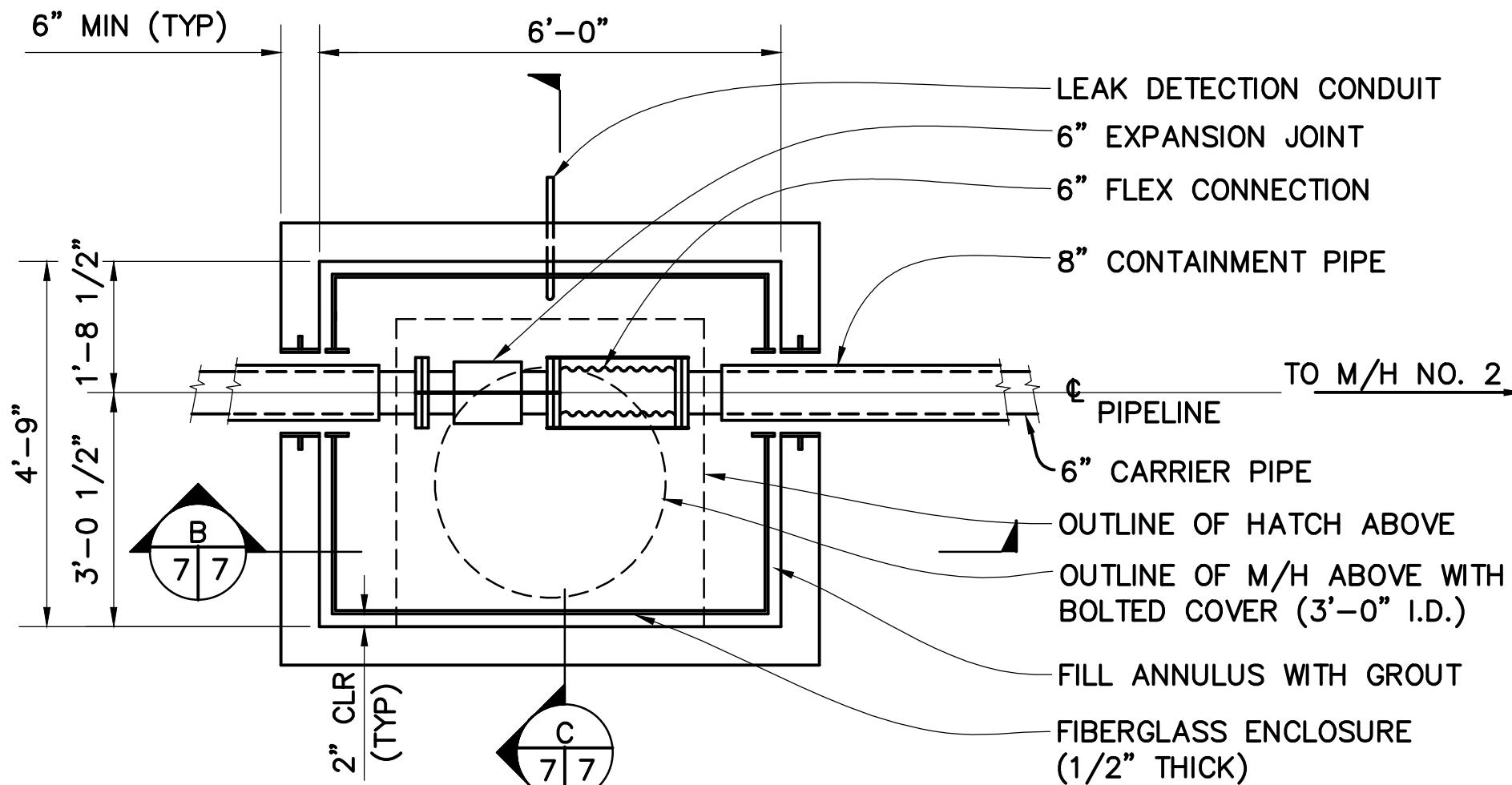
WINZLER & KELLY
CONSULTING ENGINEERS
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

AS-BUILT			
NO.	REVISIONS	BY	DATE
1		GM	7/19/01
CONTRACT NO. 97-FT-2		SHEET	
CAD FILE 97F02P06AB.DWG	6 OF 29		

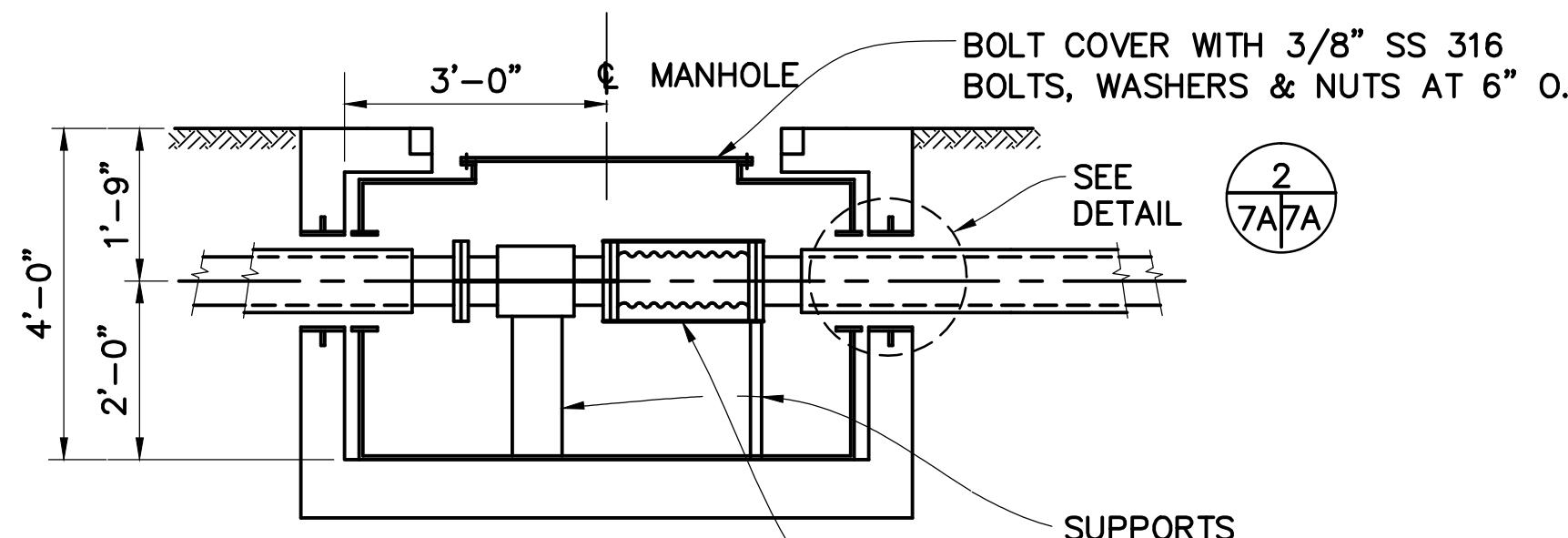
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT			
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
CONSTRUCTION DETAILS			
DESIGNED BY AJD	CHECKED BY MDK	DRAWN BY DK	
SCALE NOT TO SCALE	DATE	2-17-98	





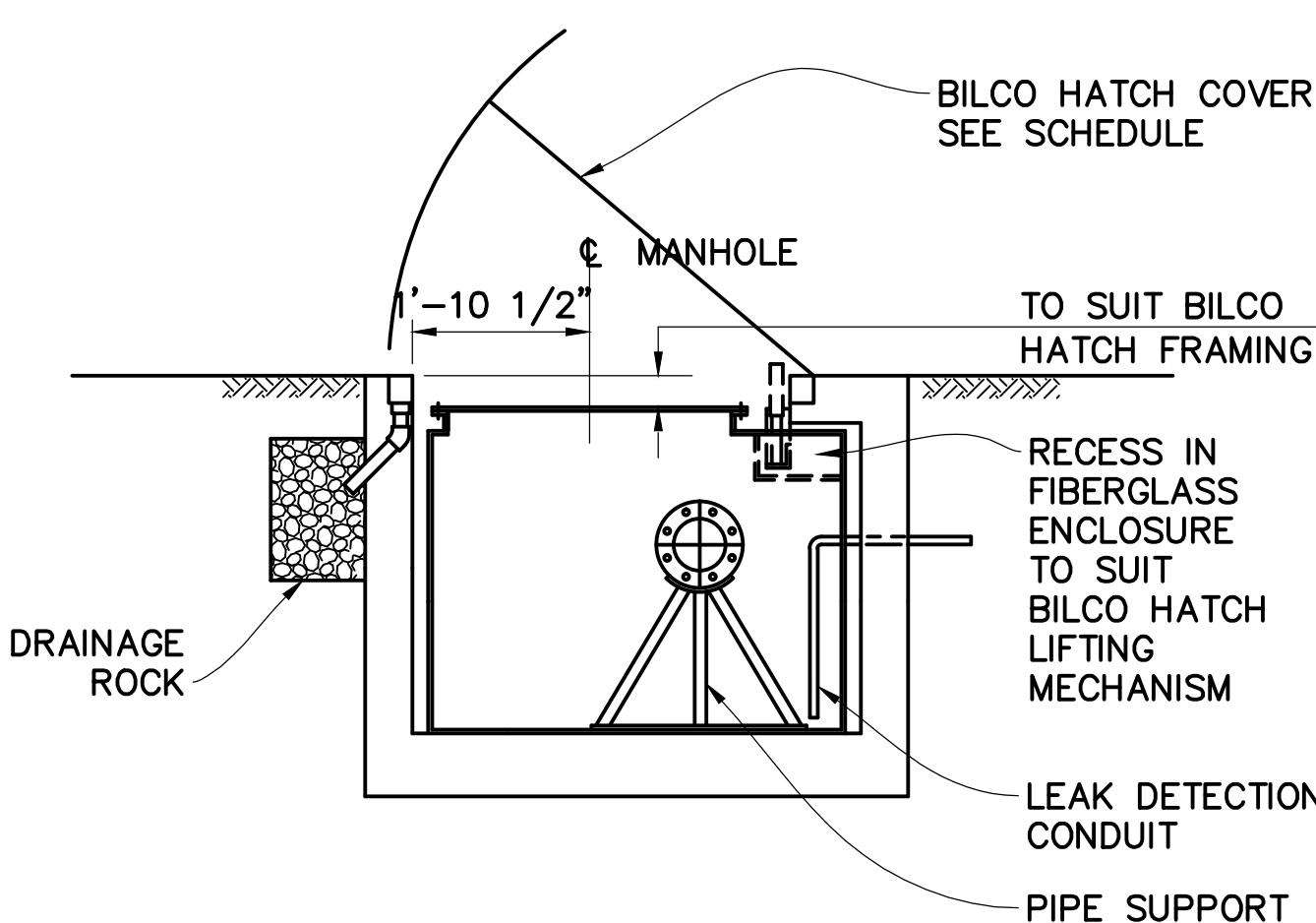


(A) PLAN VIEW
7|7 SCALE: 1/2" = 1'-0"



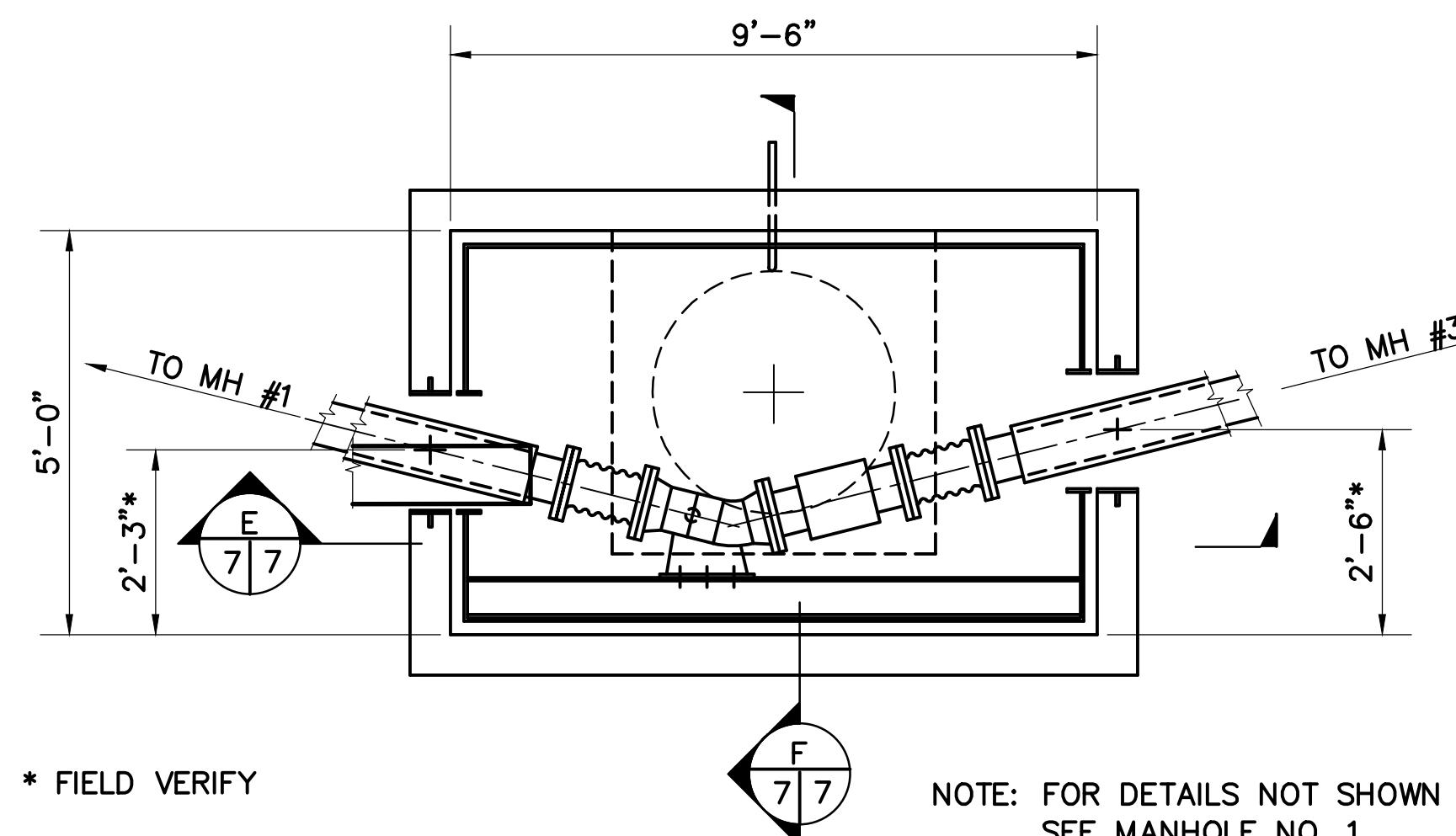
(B) SECTION
7|7 SCALE: 1/2" = 1'-0"

ALL FLEX JOINTS AND EXPANSION JOINTS ARE STABILIZED BY 3/4" SS. ALL THREAD TO PREVENT EXCESSIVE MOVEMENT, TYP

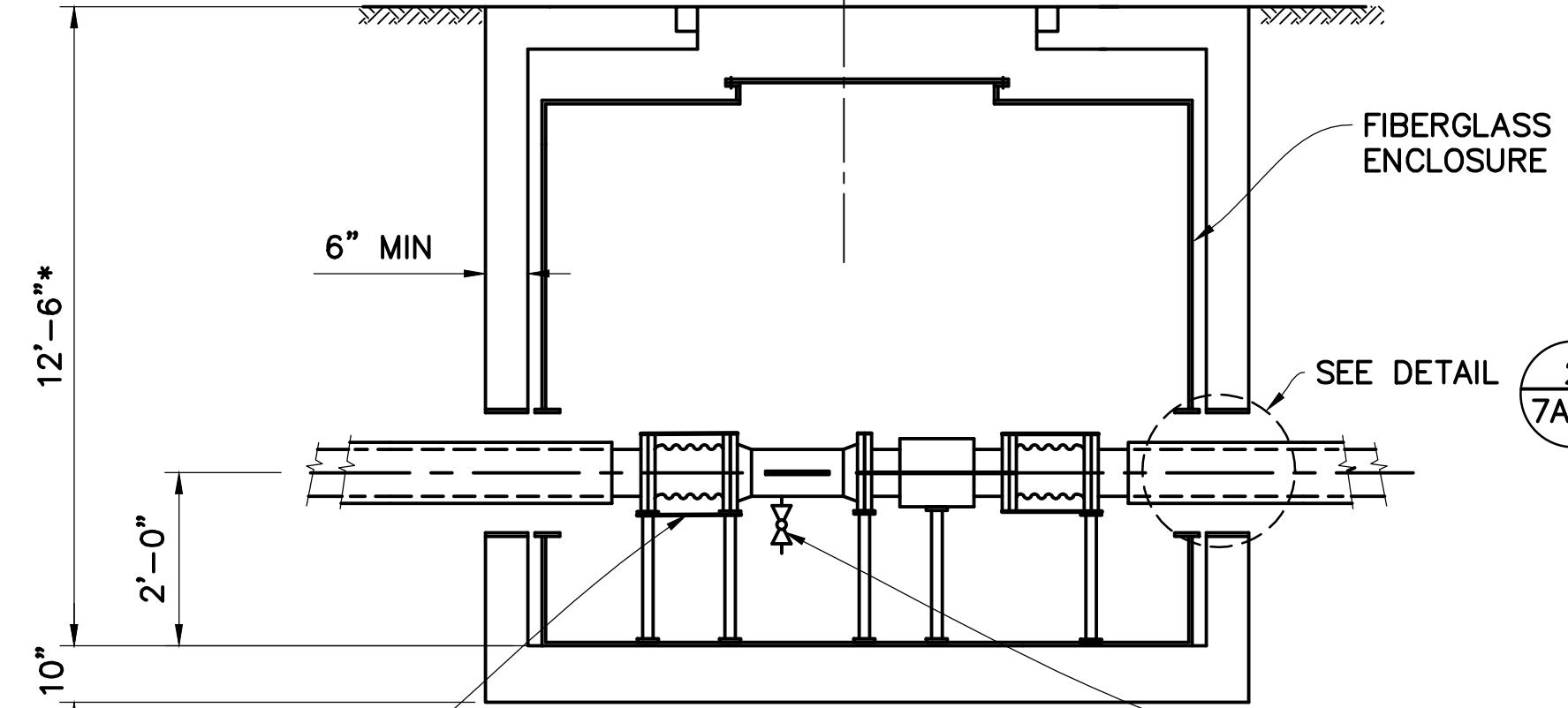


(C) SECTION
7|7 SCALE: 1/2" = 1'-0"

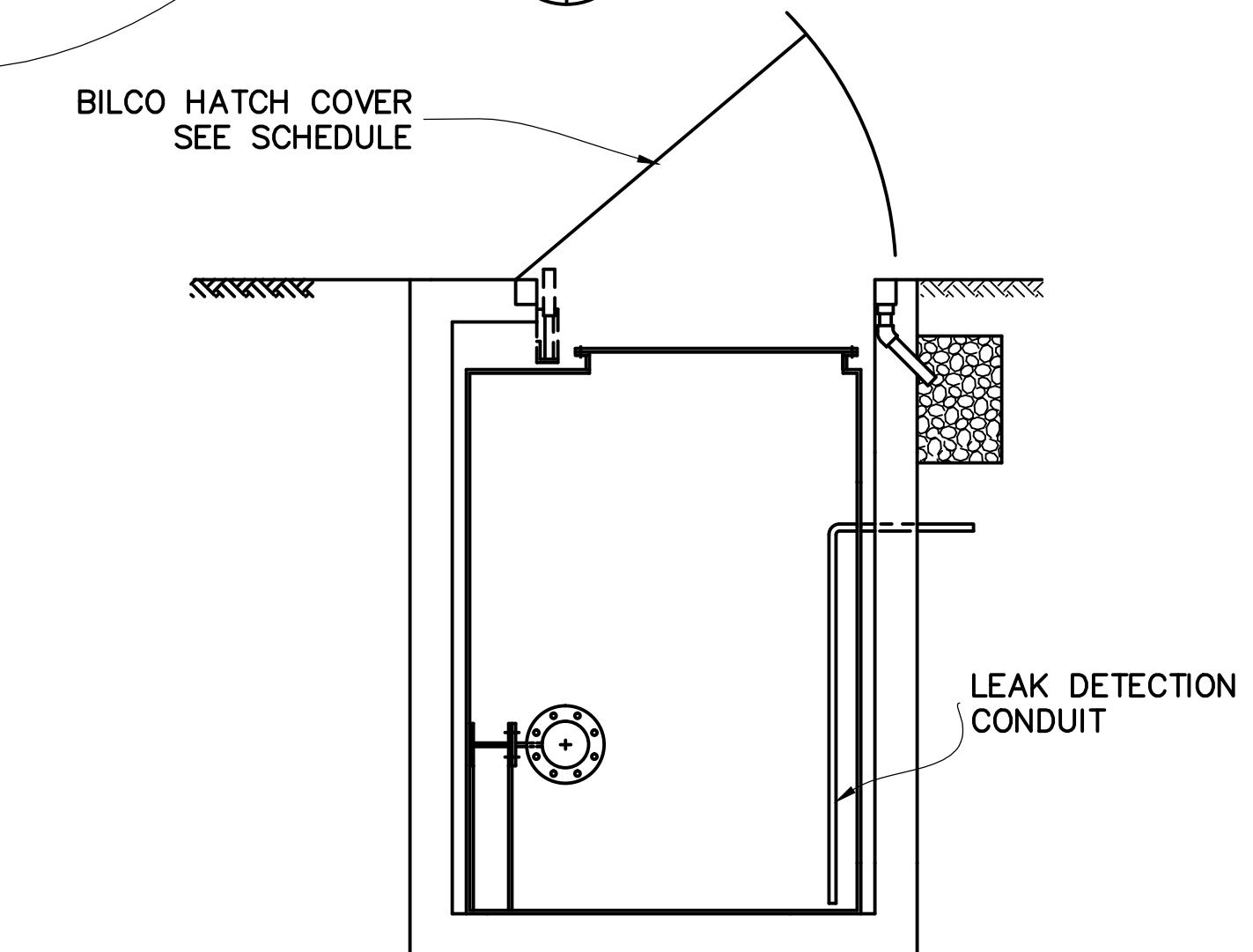
MANHOLE NO. 1



(D) PLAN VIEW
7|7 SCALE: 1/2" = 1'-0"



(E) SECTION
7|7 SCALE: 1/2" = 1'-0"



(F) SECTION
7|7 SCALE: 1/2" = 1'-0"
1/2"=1'-0"

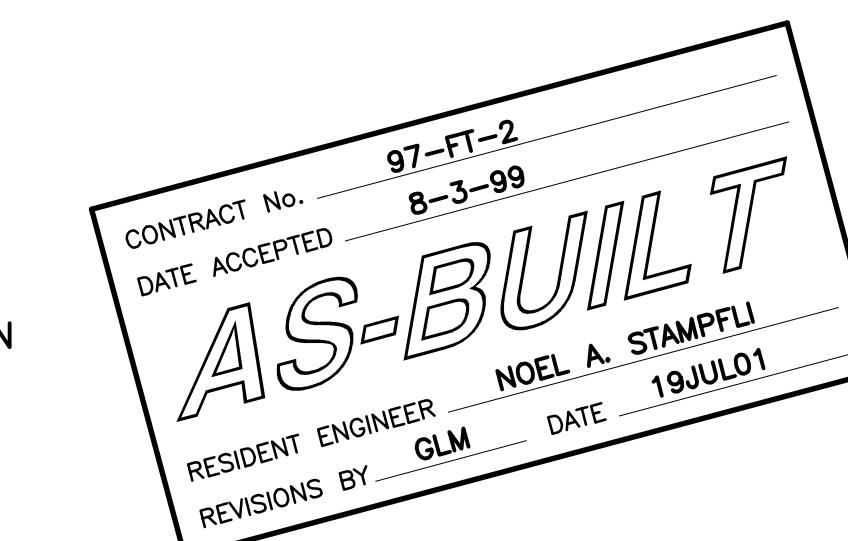
MANHOLE NO. 2

WINZLER & KELLY
CONSULTING ENGINEERS
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

HATCH SCHEDULE					
MANHOLE NO.	TYPE	BILCO HATCHES			
		SIZE	MATERIAL	LOAD RATING	COMMENTS
1	J	4'-0"x4'-0"	HOT DIPPED GALV.	300 LBS/FT ²	SINGLE LEAF
2	JH-20	4'-0"x4'-0"	HOT DIPPED GALV.	AASHTO H-20	SINGLE LEAF
3	JH-20	4'-0"x4'-0"	HOT DIPPED GALV.	AASHTO H-20	SINGLE LEAF

NOTES:

1. MANHOLES SHALL BE PRECAST OR CAST IN PLACE CONCRETE. CONCRETE TO BE 3000 PSI AT 28 DAYS. REINFORCEMENT TO BE 40000 PSI YIELD OR HIGHER. MANHOLES TO BE RATED FOR H2O LOADING.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES. PRIOR TO INSTALLATION OF MANHOLES.
3. HATCHES IN MANHOLES 2 AND 3 TO SUPPORT H2O TRUCK LOADING.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH MANHOLE AND FIBERGLASS ENCLOSURE. DRAWINGS TO BE TO SCALE AND SHOW ALL CRITICAL DIMENSIONS. ALL REINFORCEMENT, LIFTING LUGS, ANCHORAGES ARE TO BE SHOWN.
5. FIBERGLASS ENCLOSURE TO BE WATER PROOF. CONTRACTOR TO PROVIDE RESTRAINTS TO PREVENT FLOATATION AND HORIZONTAL MOVEMENT OF ENCLOSURE. LID TO HAVE RUBBER GASKET FOR WATER TIGHT SEALING
6. CONCRETE MANHOLES ARE TO BE WATER TIGHT AND NON BOUYANT.
7. FLEXIBLE CONNECTION SHALL BE BRAIDED STAINLESS STEEL WITH FLANGED ENDS. FLEXIBLE CONNECTION SHALL BE METRAFLEX OR APPROVED EQUAL.



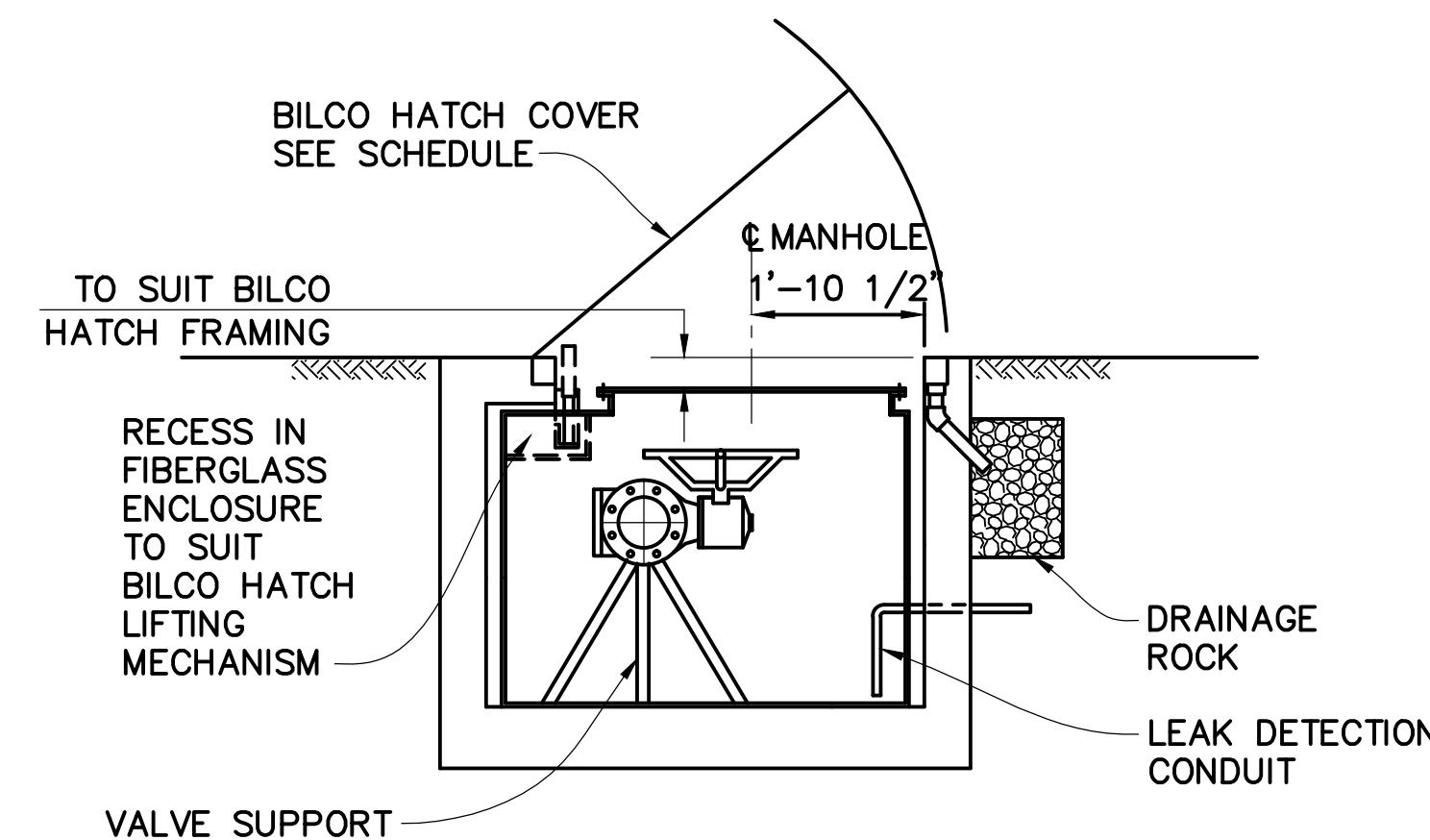
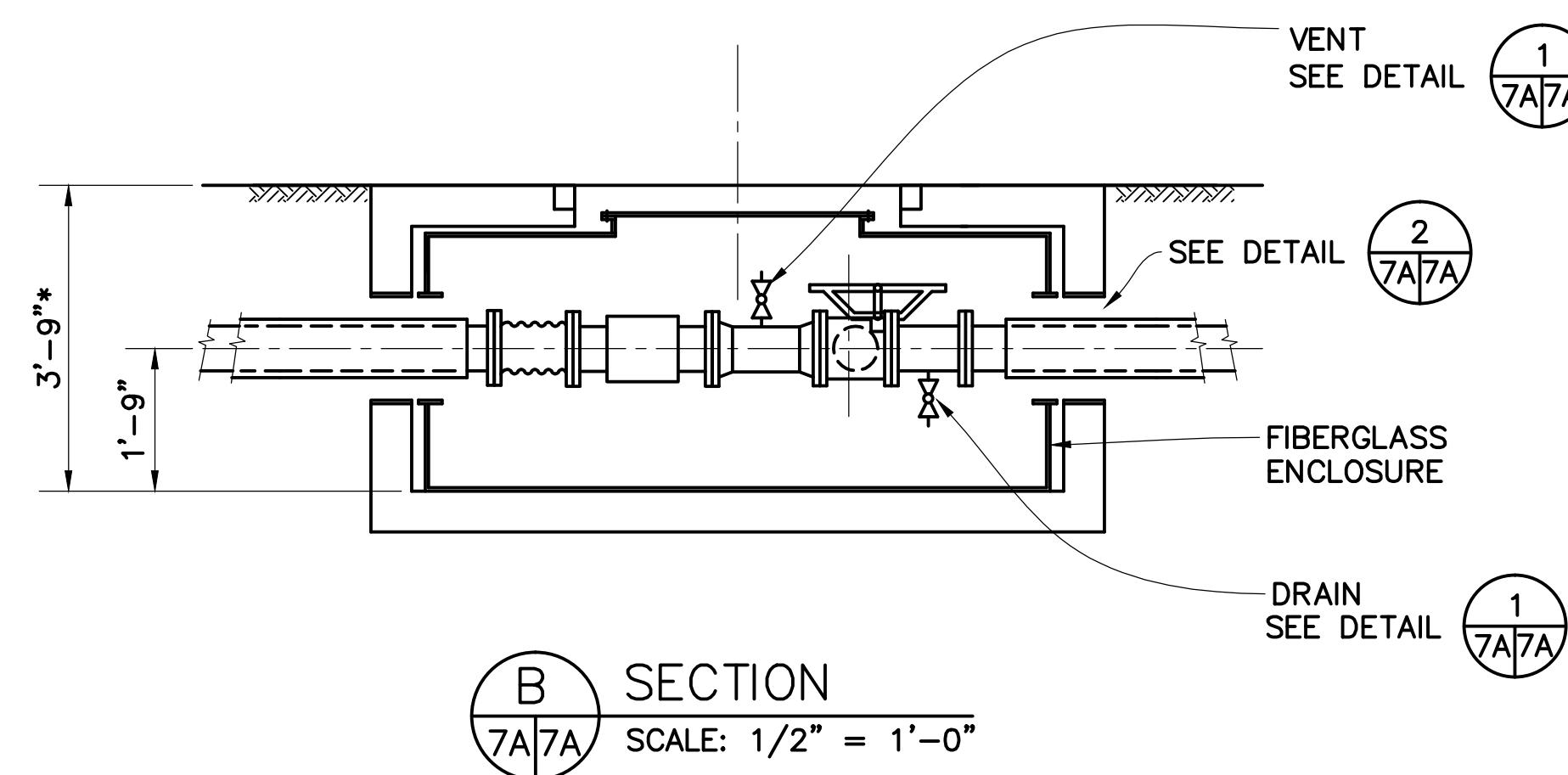
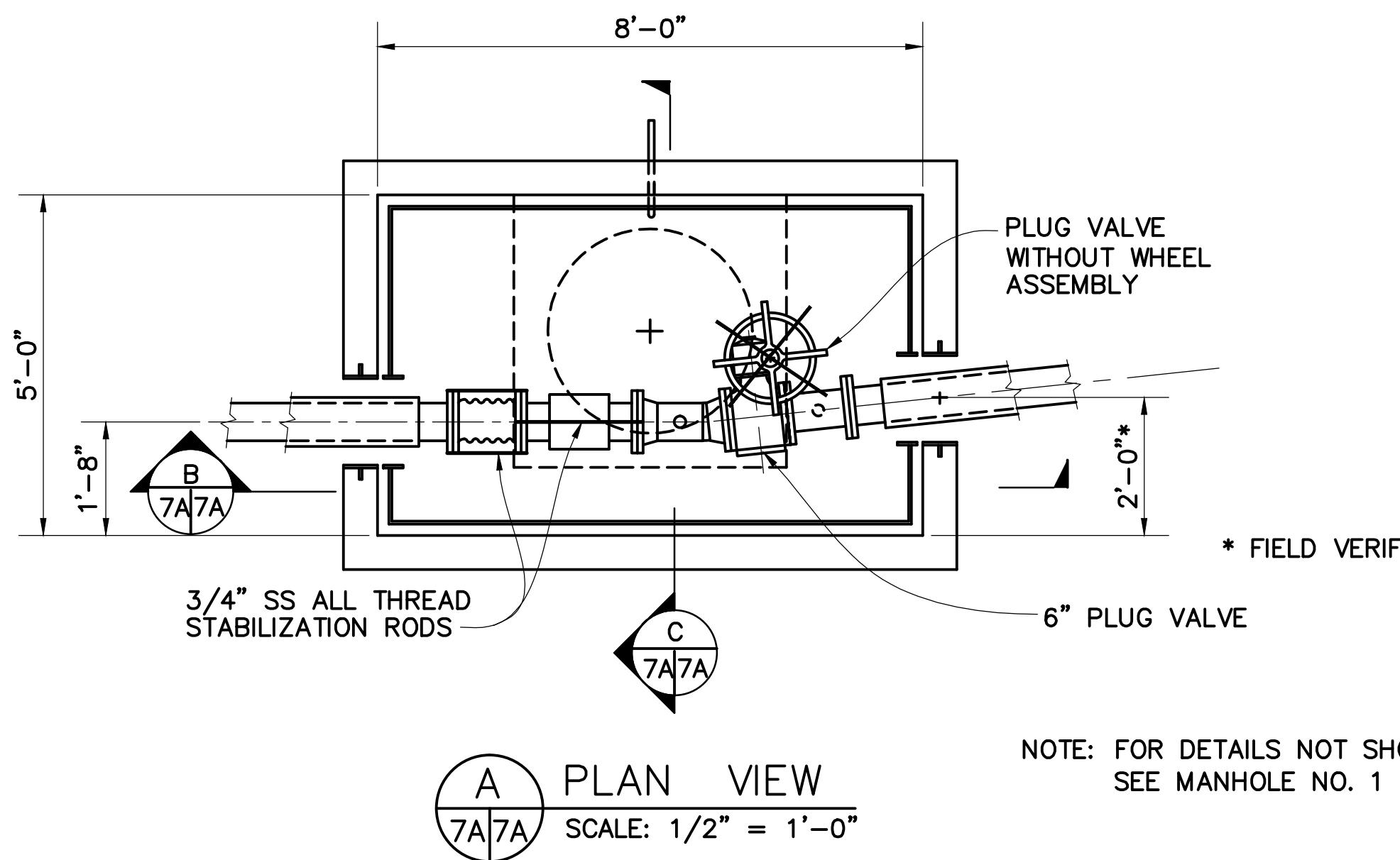
APPROVED BY	
REGISTERED PROFESSIONAL ENGINEER	DAVIN C. GIACOMINI
No. 21548	Exp. 9-30-97
CIVIL	STATE OF CALIFORNIA
DISTRICT ENGINEER	2-17-98

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS

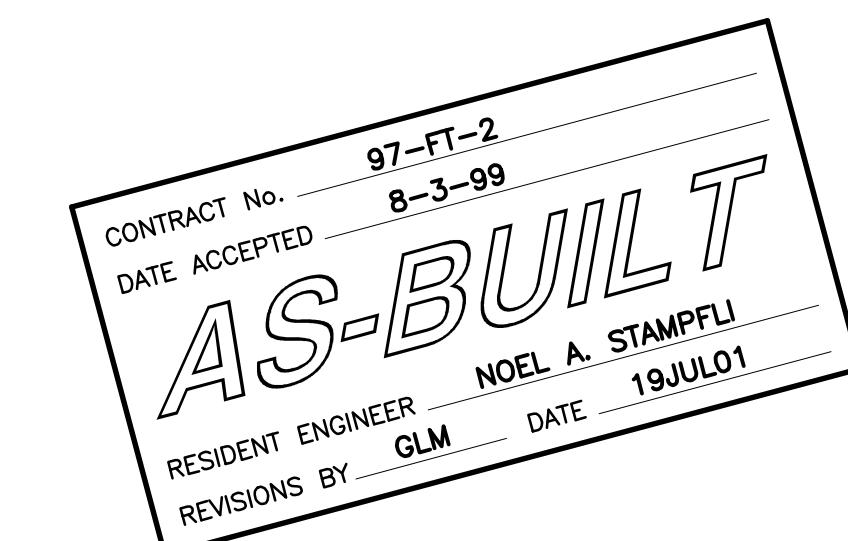
FUEL MANHOLES

DESIGNED BY MDK CHECKED BY THP DRAWN BY PB
DATE
SCALE AS SHOWN DATE 2-17-98

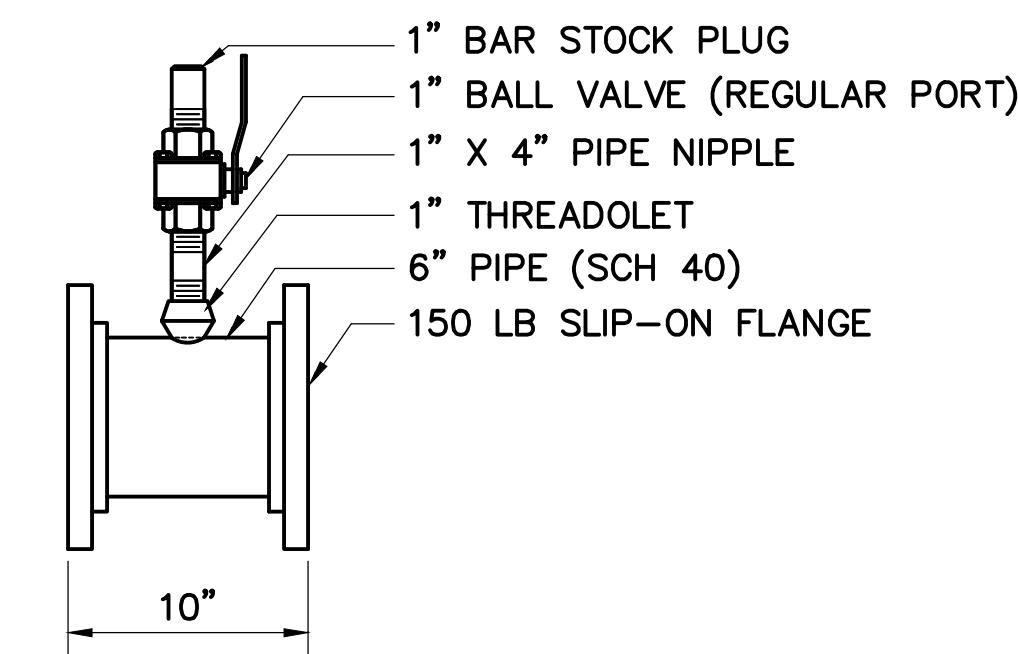
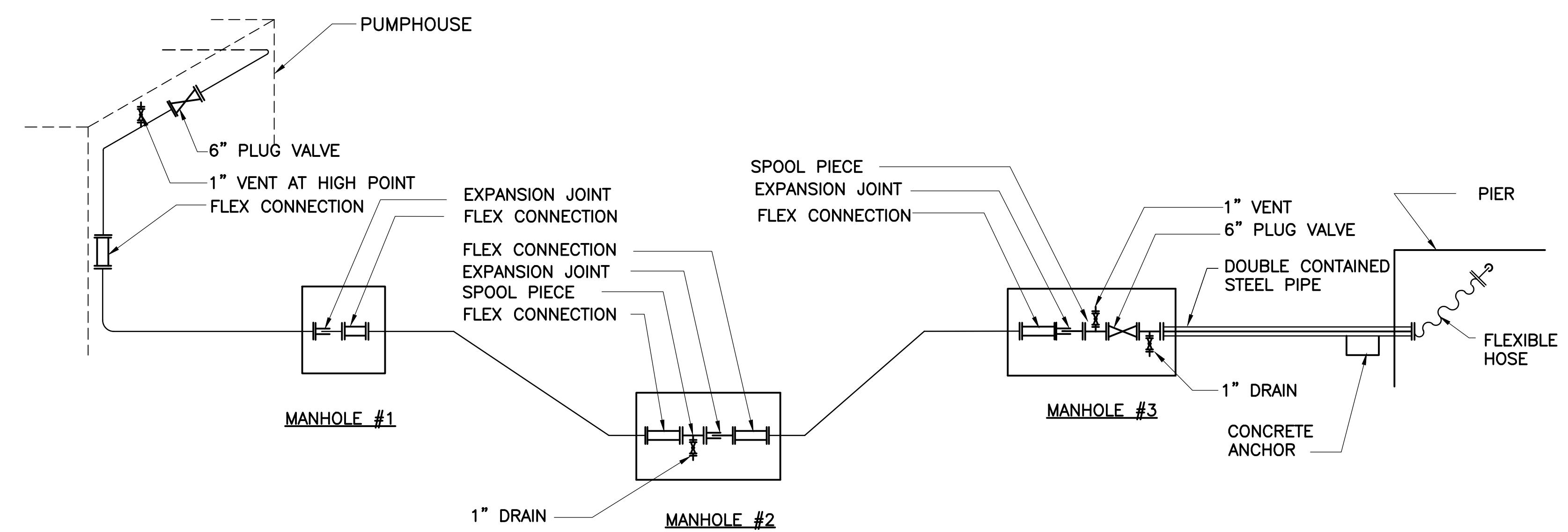


C SECTION
7A7A SCALE: $1/2'' = 1'-0''$

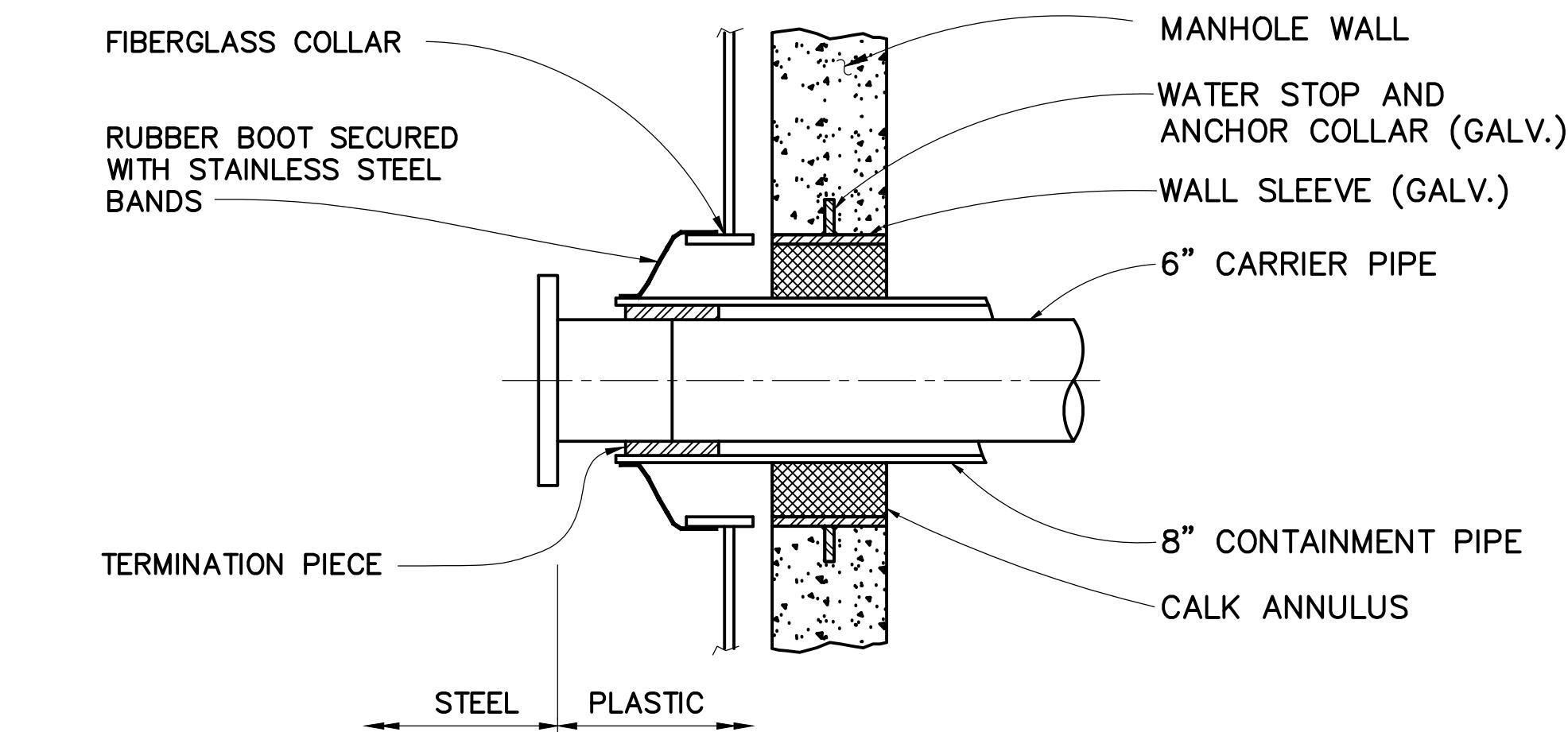
MANHOLE NO. 3



WINZLER & KELLY
CONSULTING ENGINEERS
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(415) 283-4970 FAX (415) 283-4980

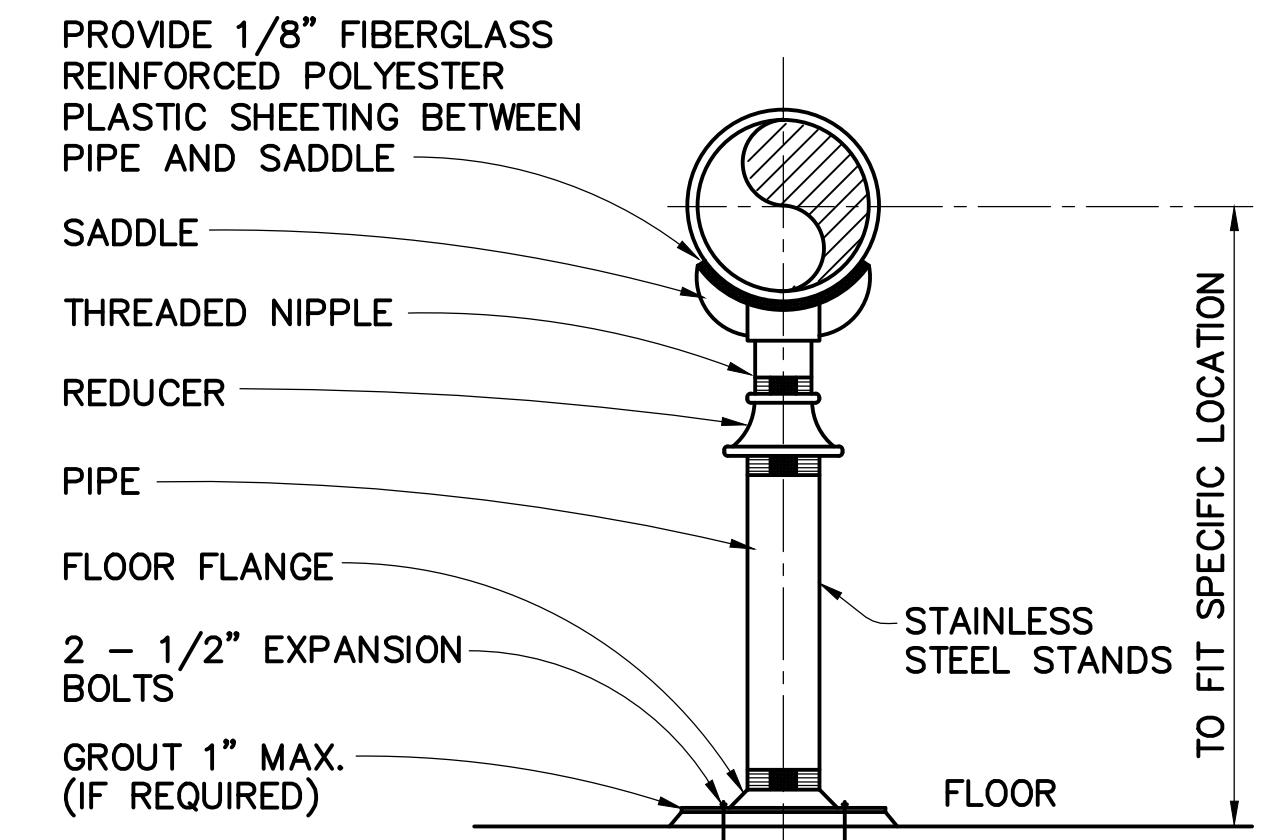
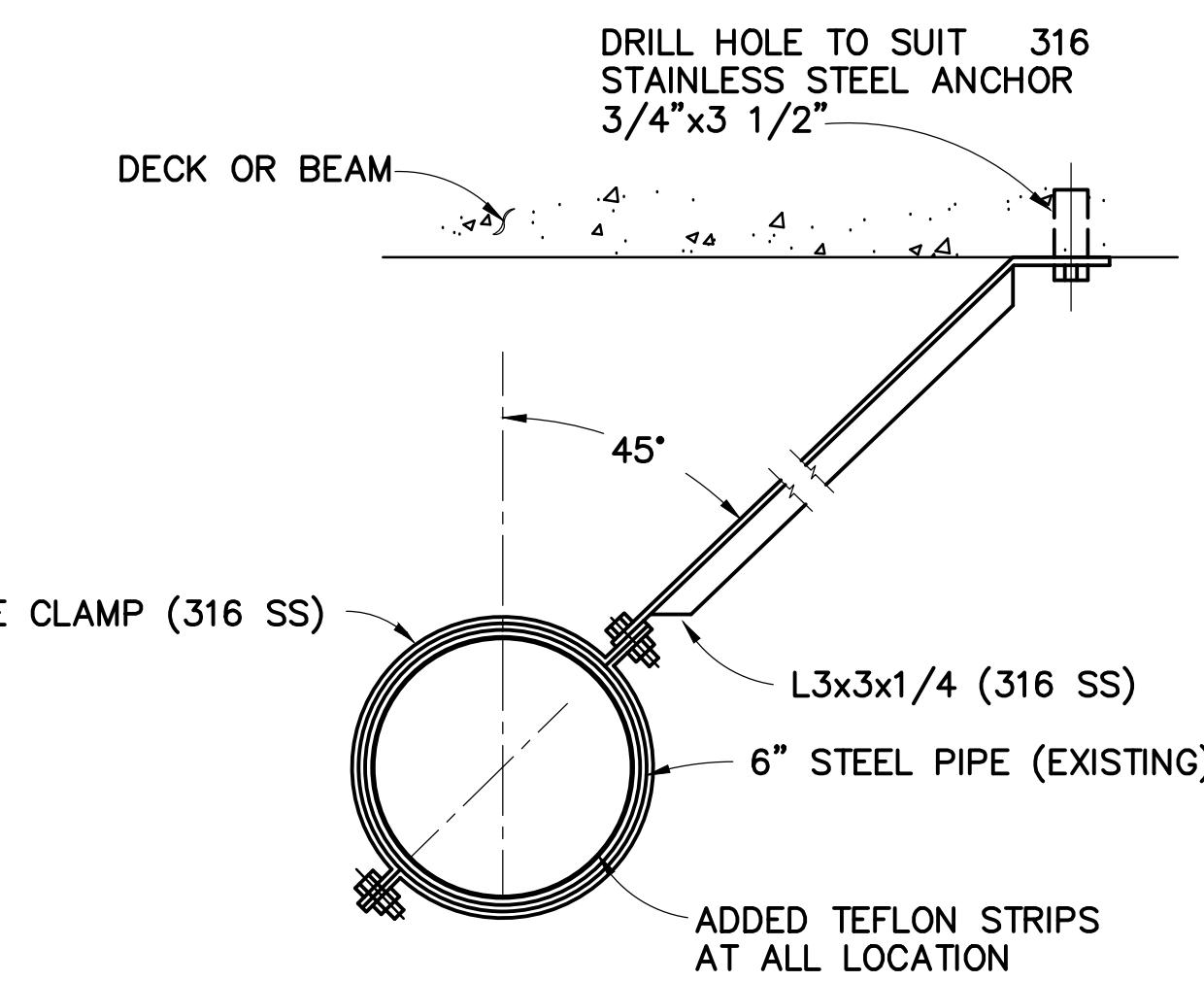
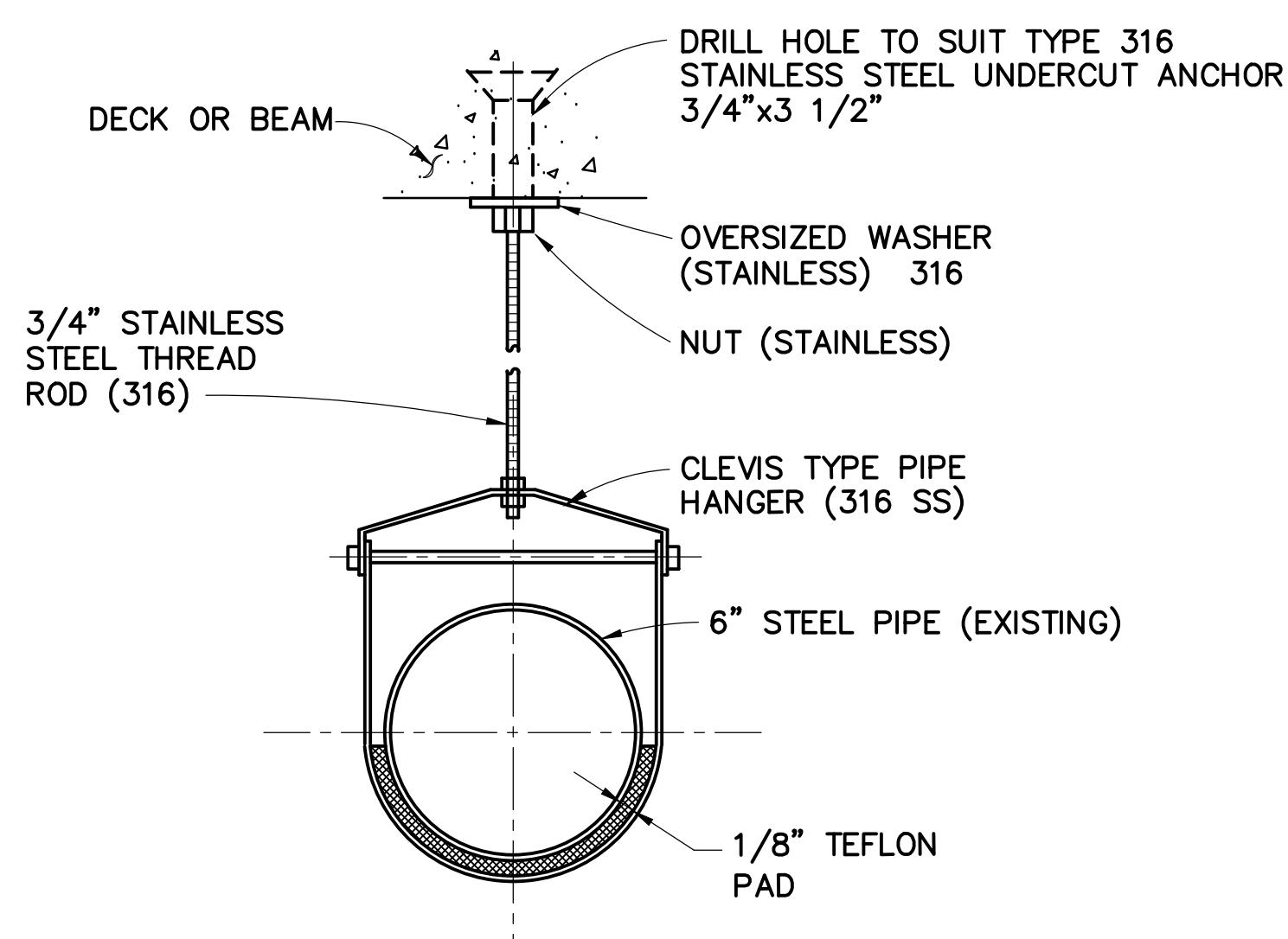


1 VENT OR DRAIN DETAIL
7A7A SCALE: $1 1/2'' = 1'-0''$

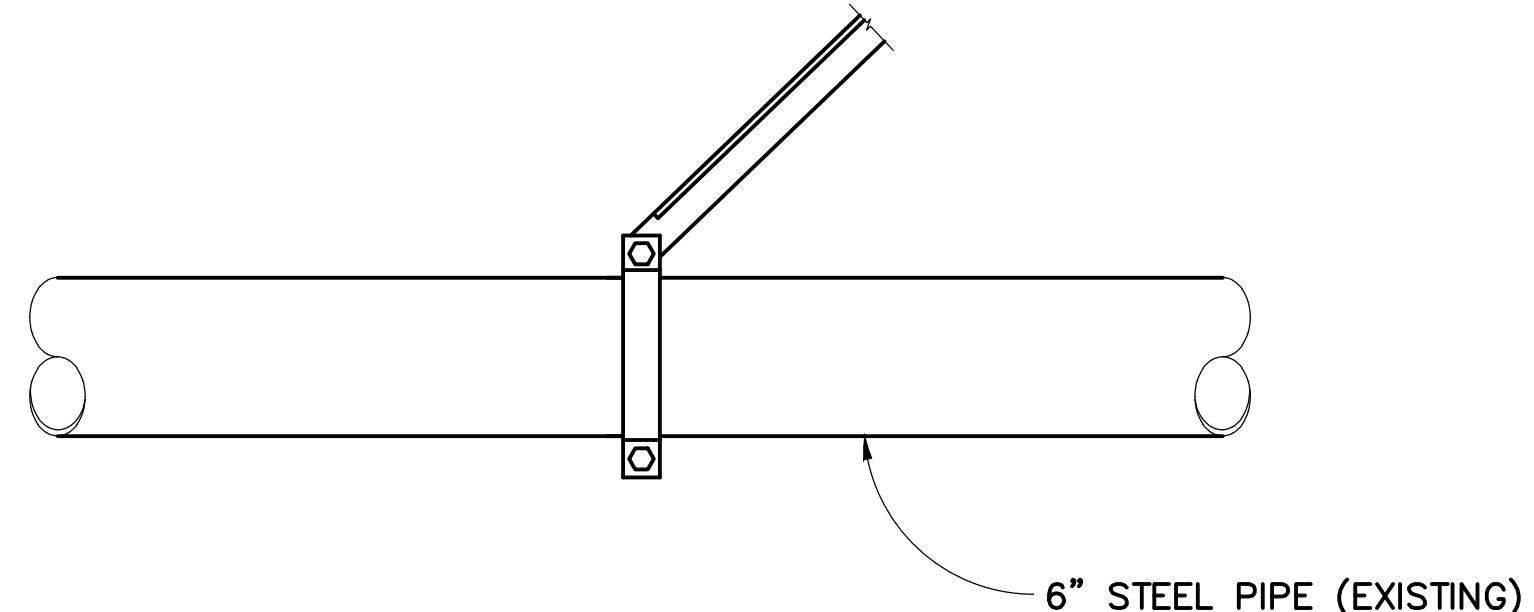


2 PENETRATION DETAIL
7A7A SCALE: $1 1/2'' = 1'-0''$

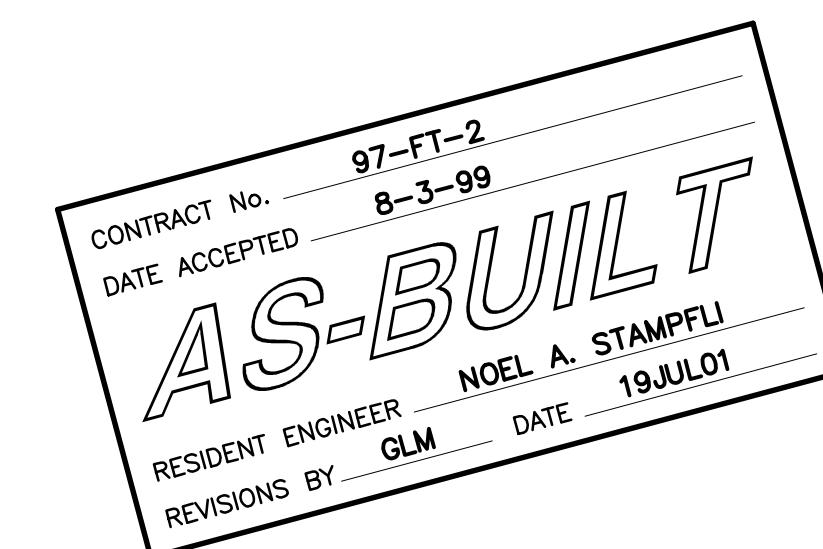
APPROVED BY		GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
		LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
CIVIL DISTRICT ENGINEER			
FUEL MANHOLES			
DESIGNED BY MDK	CHECKED BY AJD	DRAWN BY PB	DATE
SCALE AS SHOWN	DATE	2-17-98	2-17-98
CONTRACT NO. 97-FT-2		SHEET	7A OF 29
NO. REVISIONS		BY	DATE
AS-BUILT		GM	7/19/01
CONTRACT NO. 97-FT-2		SHEET	
CAD FILE 97F02P07AAB.DWG		7A OF 29	



1 PIPE HANGER @ 10' (TYP)
NOT TO SCALE



3 LONGITUDINAL RESTRAINT @ 25' (TYP)
NOT TO SCALE



NOTE:

1. PIPING SUSPENDED BENEATH TERMINAL BUILDING TO BE REFURBISHED AND WRAPPED WITH TAPECOAT PRODUCT OR APPROVED EQUAL
2. ALL STAINLESS STEEL IS TYPE 316

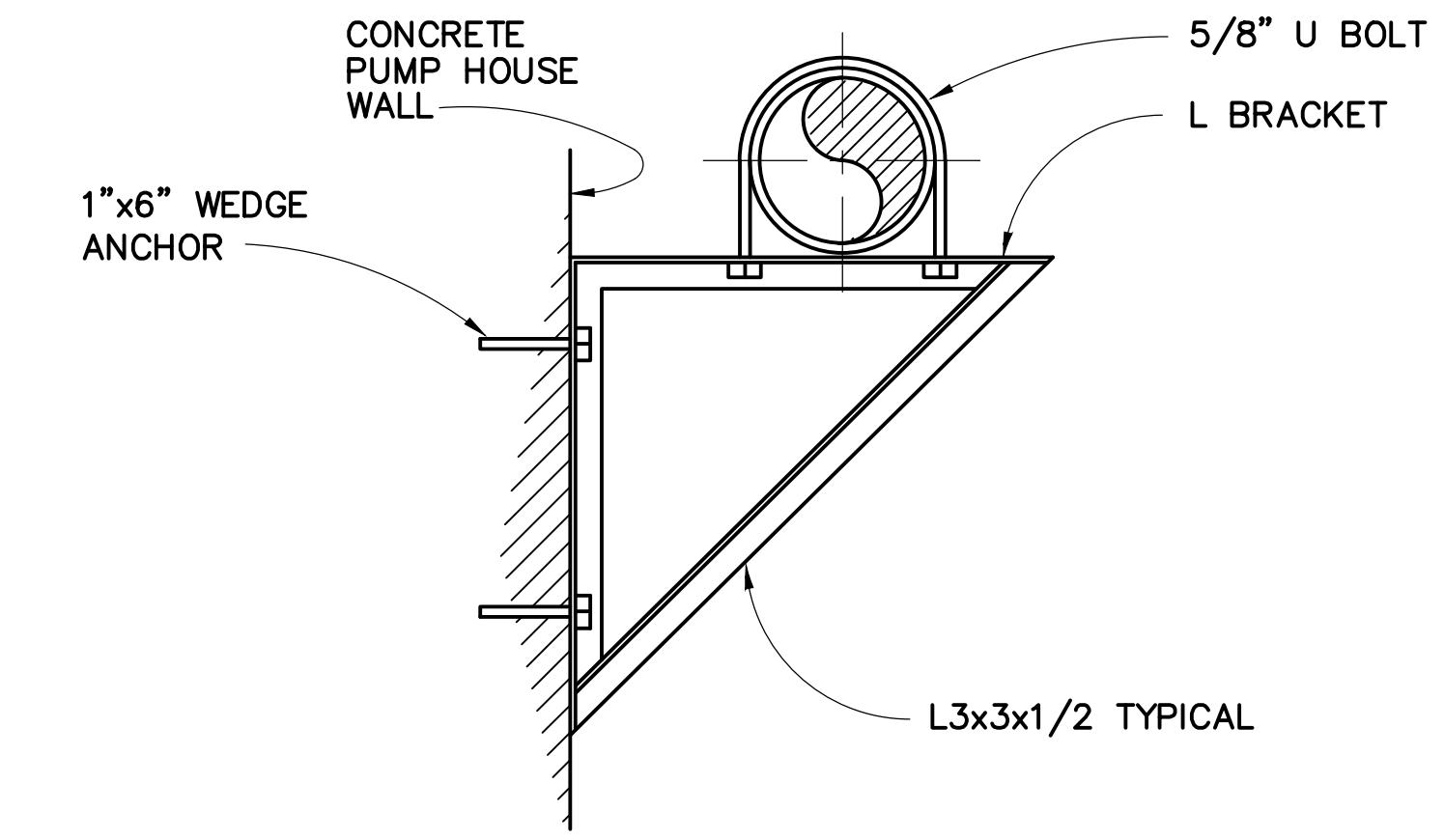
WINZLER & KELLY
CONSULTING ENGINEERS
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

AS-BUILT			
NO.	REVISIONS	BY	DATE
1		GM	7/19/01
CONTRACT NO.	97-FT-2	SHEET	

DISTRICT ENGINEER
2-17-98
CAD FILE 97F02P08AB.DWG
8 OF 29

	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT		
	LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	CIVIL	STATE OF CALIFORNIA
CONSTRUCTION DETAILS			
DESIGNED BY AJD CHECKED BY MDK DRAWN BY DK SCALE NOT TO SCALE DATE 2-17-98			

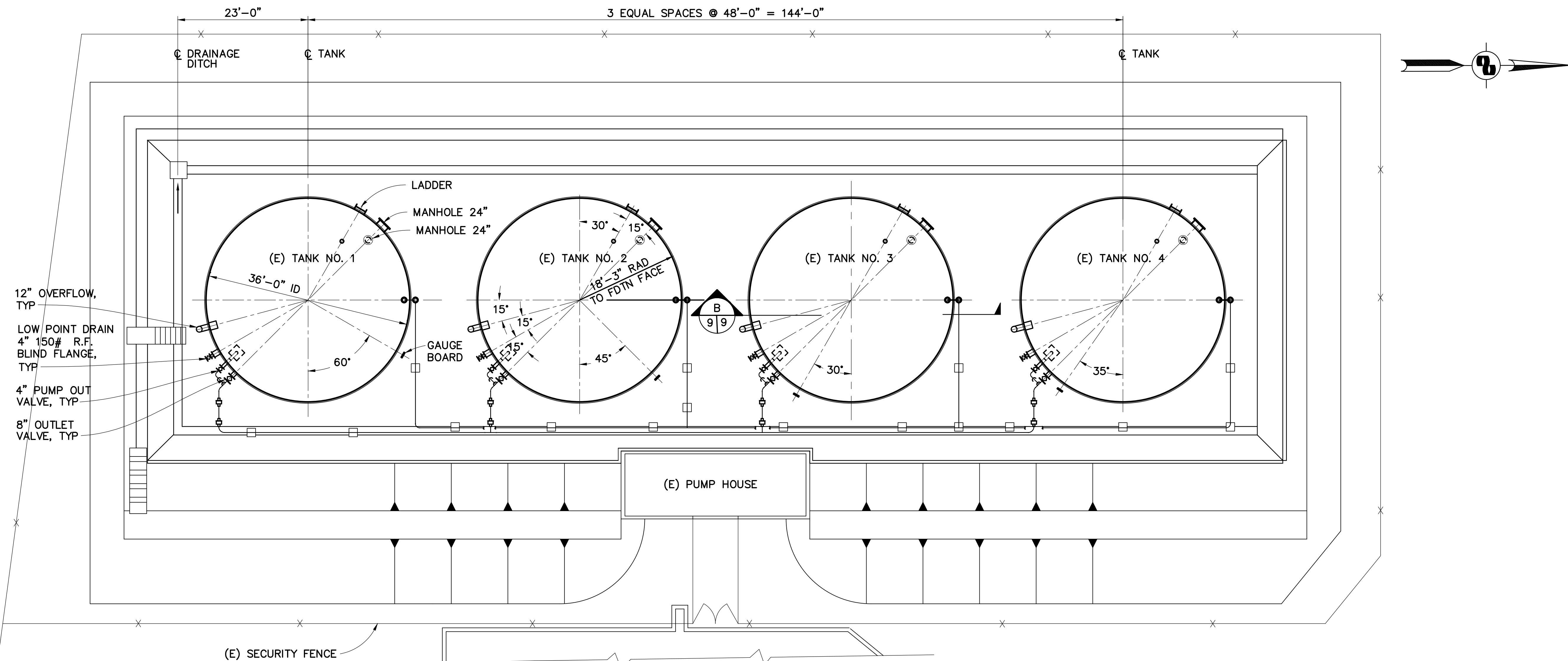
4 PIPE SUPPORT DETAIL
NOT TO SCALE



5 PIPE SUPPORT DETAIL
NOT TO SCALE

GENERAL NOTE:

PROVIDE COATING AT WELD USING SAME MATERIAL AND WITH SAME THICKNESS OF FACTORY COATING



This technical drawing illustrates a cross-section of a tank shell resting on an existing foundation. The drawing shows the tank's curved outer wall (TANK SHELL) and its base on the EXISTING FOUNDATION. A central vertical post is labeled as EXISTING CENTER POST FOR MODIFICATION SEE DETAIL, with callout 1-14.

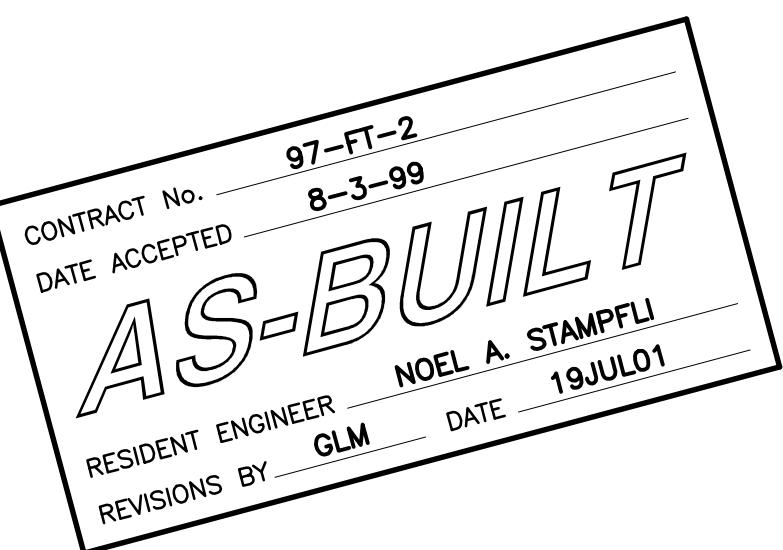
On the left side, there is a detailed view of a pump assembly. It includes a pump body, a pump outlet, and a low point drain. The pump outlet is labeled REMOVE EXISTING PUMP OUT SEE DETAIL, with callout 2-15. The low point drain is labeled REMOVE EXISTING LOW POINT DRAIN SEE DETAIL, with callout 1-15.

On the right side, a callout indicates REMOVE EXISTING BOTTOM PLATE AND REPLACE WITH NEW PLATE.

A scale bar at the bottom right shows TANK SECTION with dimensions 3/16" = 1'-0".

This technical drawing shows a cross-section of a concrete ring foundation. The foundation is a thick-walled rectangular structure with a height of 10'-6". A vertical support column is located in the center, labeled as a 4"Ø ROOF SUPPORT COLUMN. The width of the foundation is indicated as 10' 1". On the left side, there is a circular callout with the letter 'C' at the top and two '9's on either side of a vertical line, likely indicating a coordinate or specific dimension. Labels include 'CONCRETE RING FOUNDATION' pointing to the base, and 'COMPACTED FILL UNDER SAND CUSHION' pointing to the ground surface. The overall width of the foundation is approximately 22'-0", as indicated by the label 'APPROX'.

B EXISTING TANK SECTION



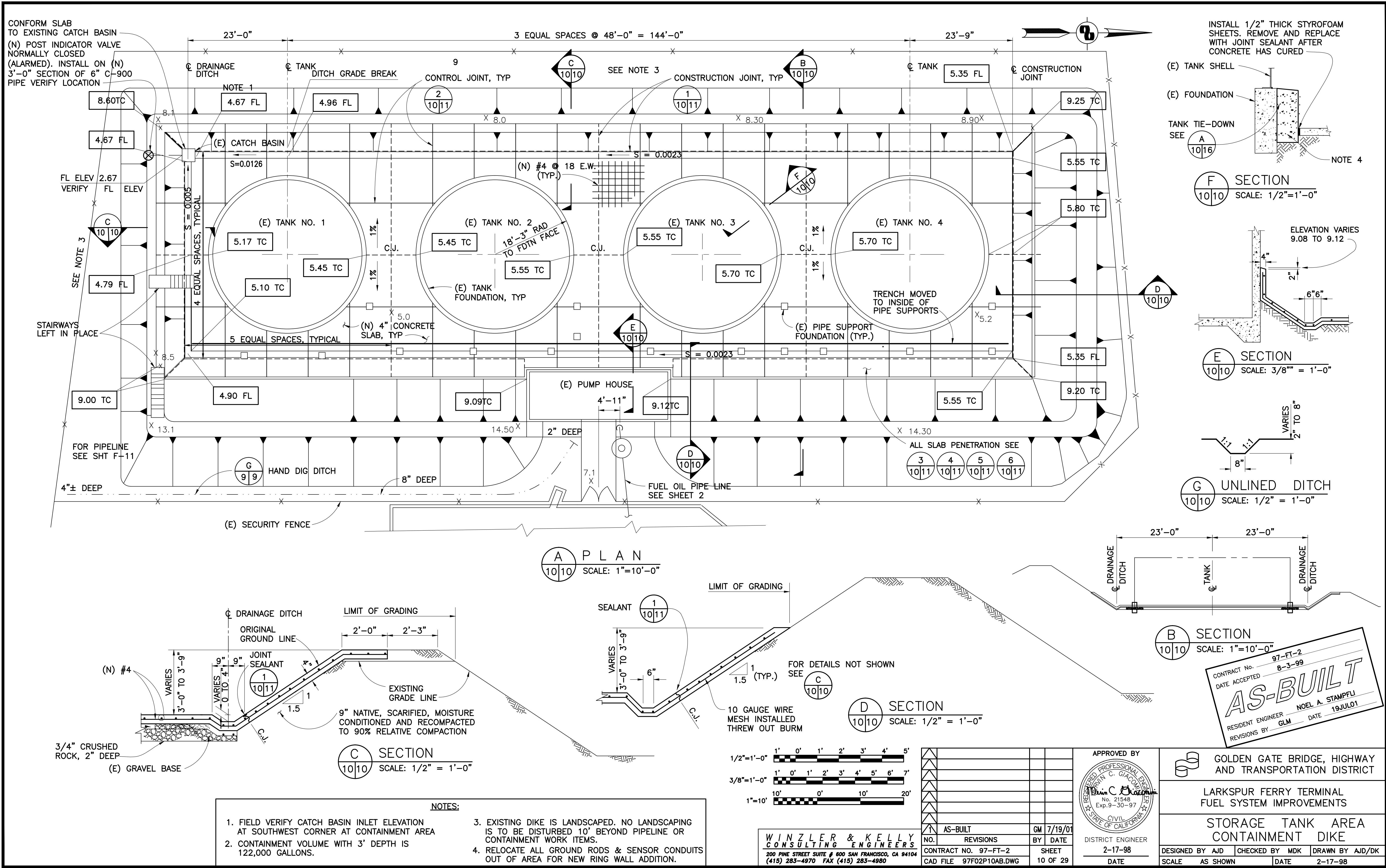
W I N Z L E R & K E L L
C O N S U L T I N G E N G I N E E R I N G

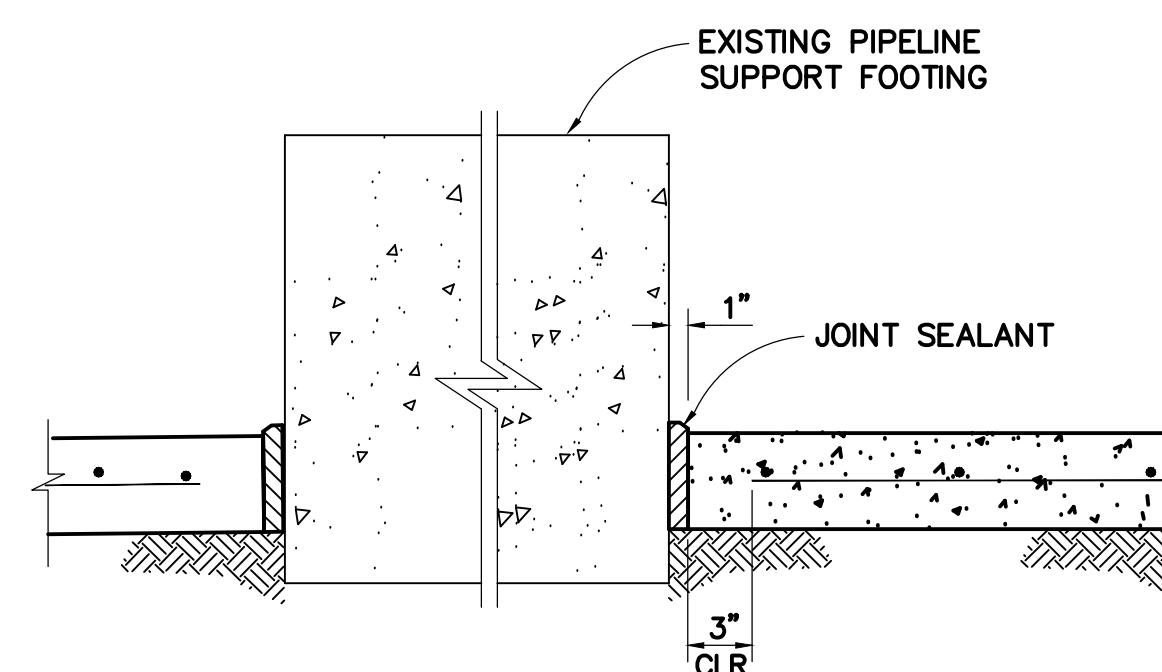
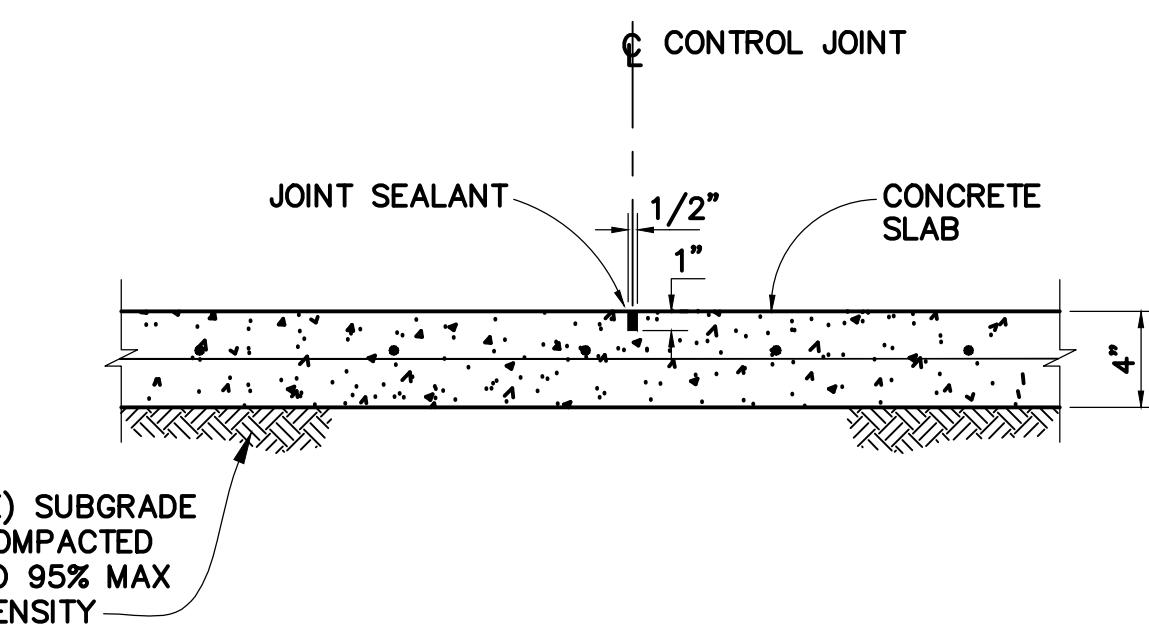
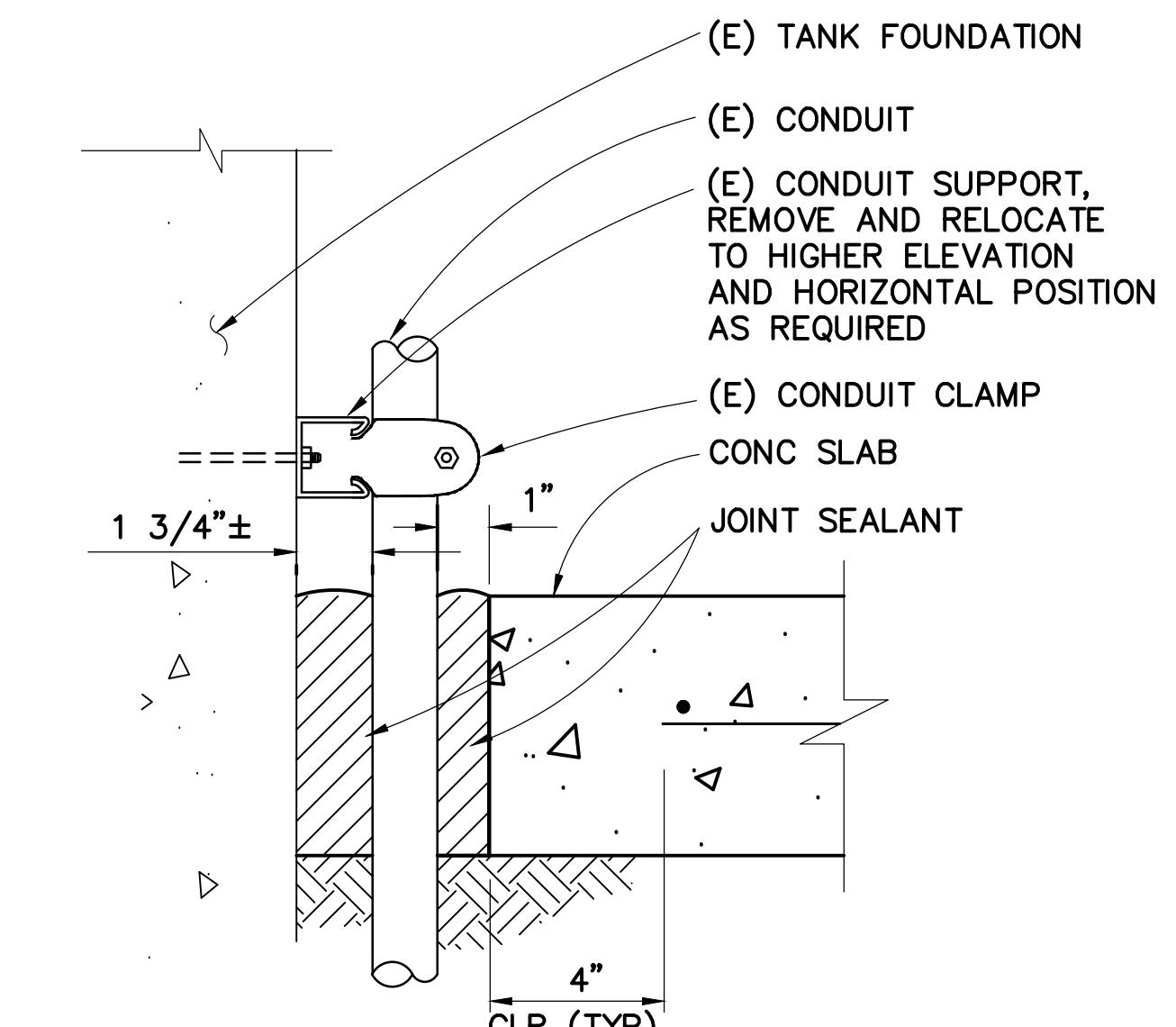
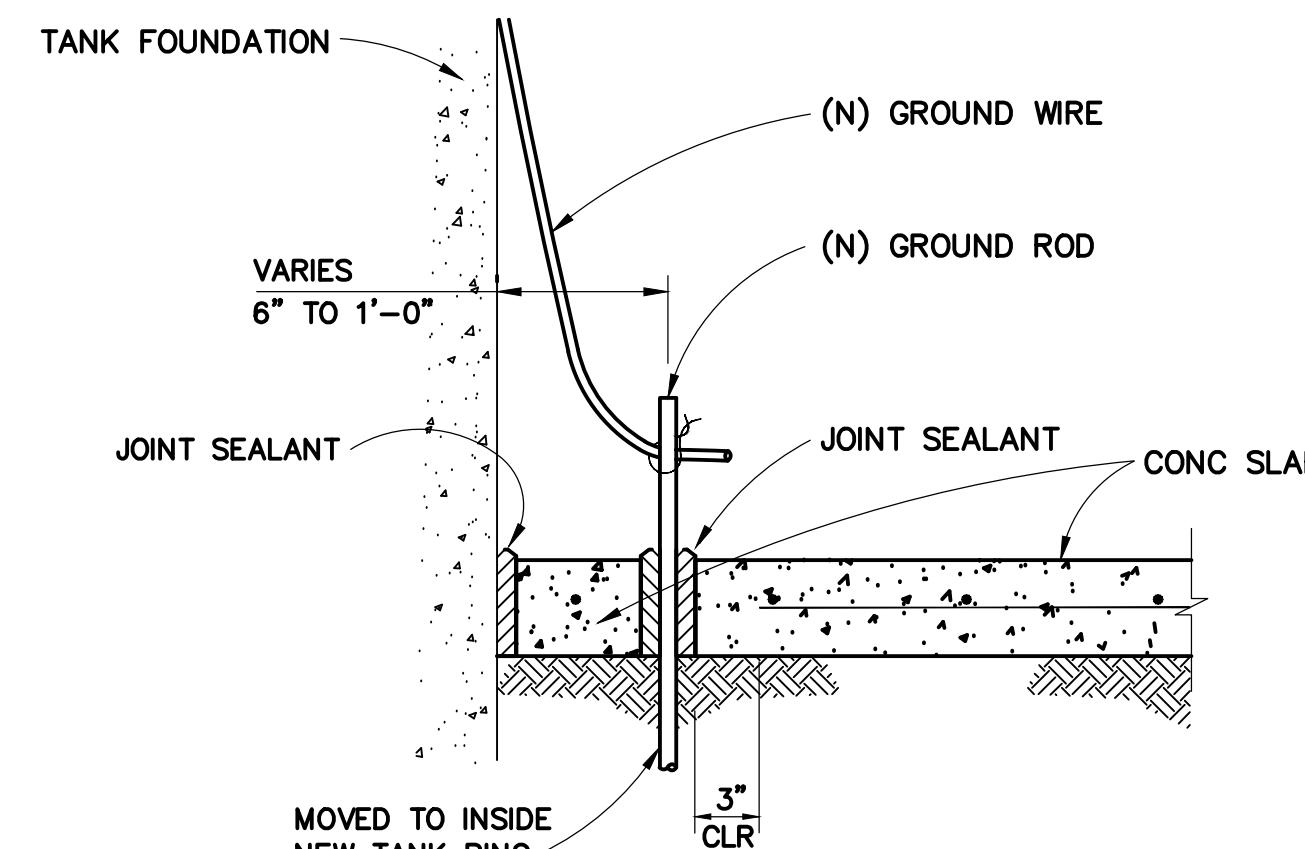
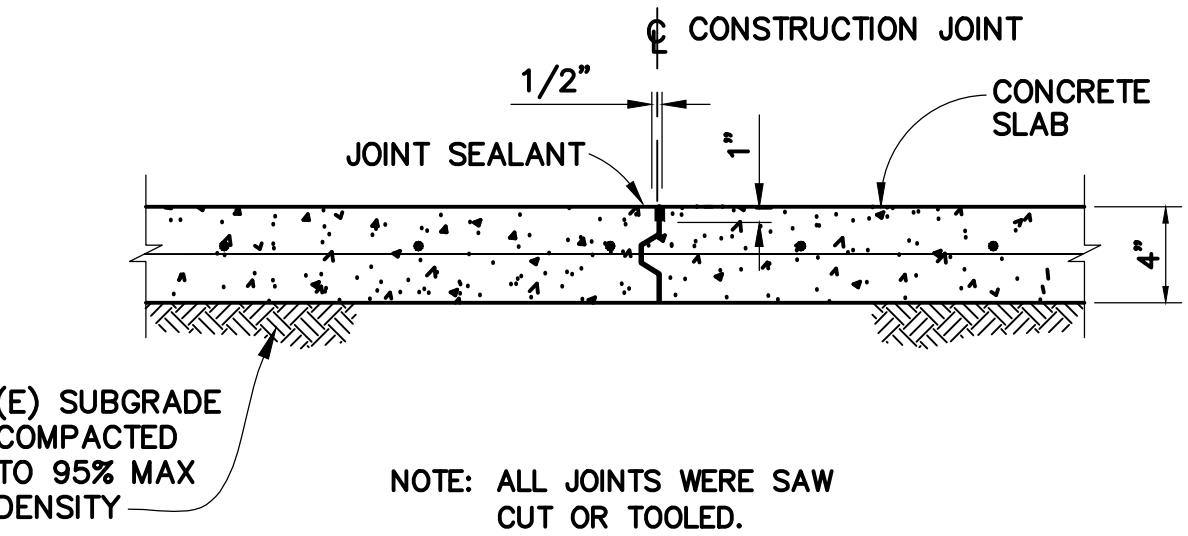
	1' 0"	2'	4'	6'	8'	10'	12'	14'	
1'-0"									
	10'	0'		10'	20'				
-10'									

1	AS-BUILT - NO CHANGE	GM	7/19/01
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CONTRACT NO. 97-FT-2		SHEET	
CAD FILE 97F02P09AB.DWG		9 OF 29	

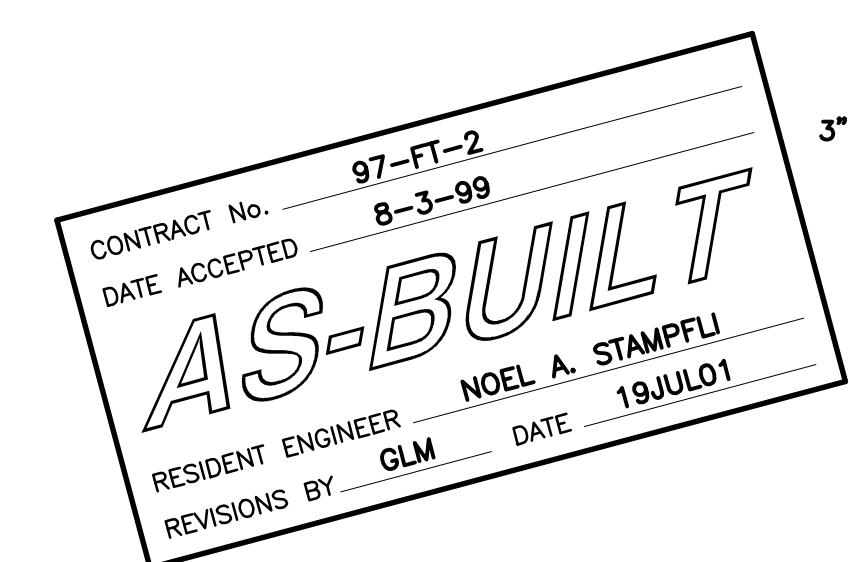
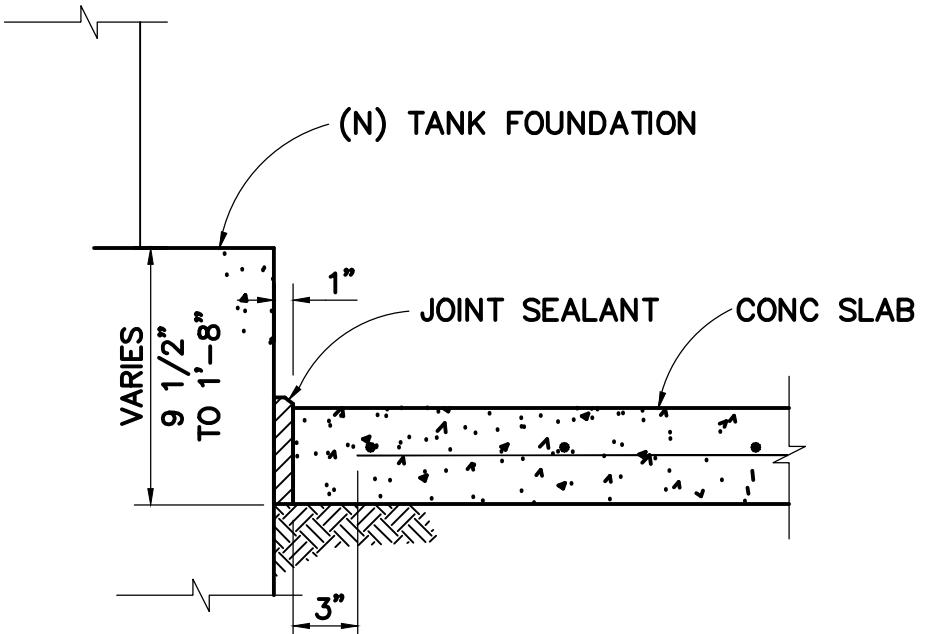
WINZLER & KELLY CONSULTING ENGINEERS 200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104 (415) 283-4970 FAX (415) 283-4980	APPROVED BY
---	---------------------

	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS		
TANK	SECONDARY CONTAINMENT EXISTING CONDITIONS	
DESIGNED BY JP	CHECKED BY MDK	DRAWN BY PB
SCALE AS SHOWN	DATE	2-17-98





NOTE:
ALL EXISTING GROUND RODS ARE
TO BE REPLACED WITHIN THE FUEL
TANK CONTAINMENT AREA.

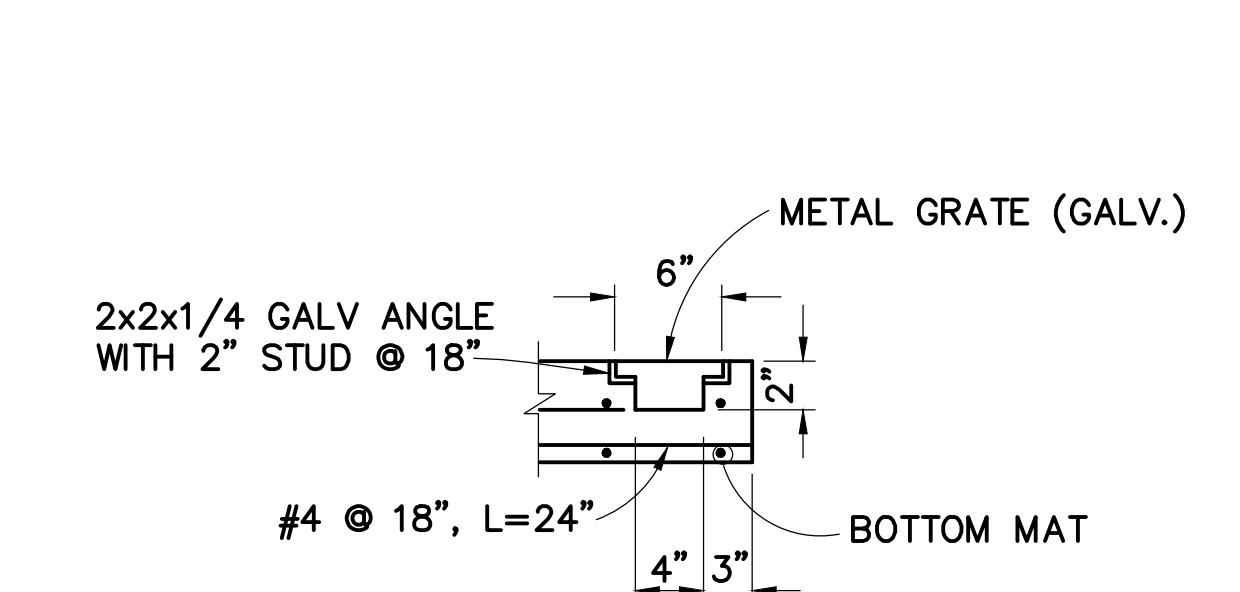
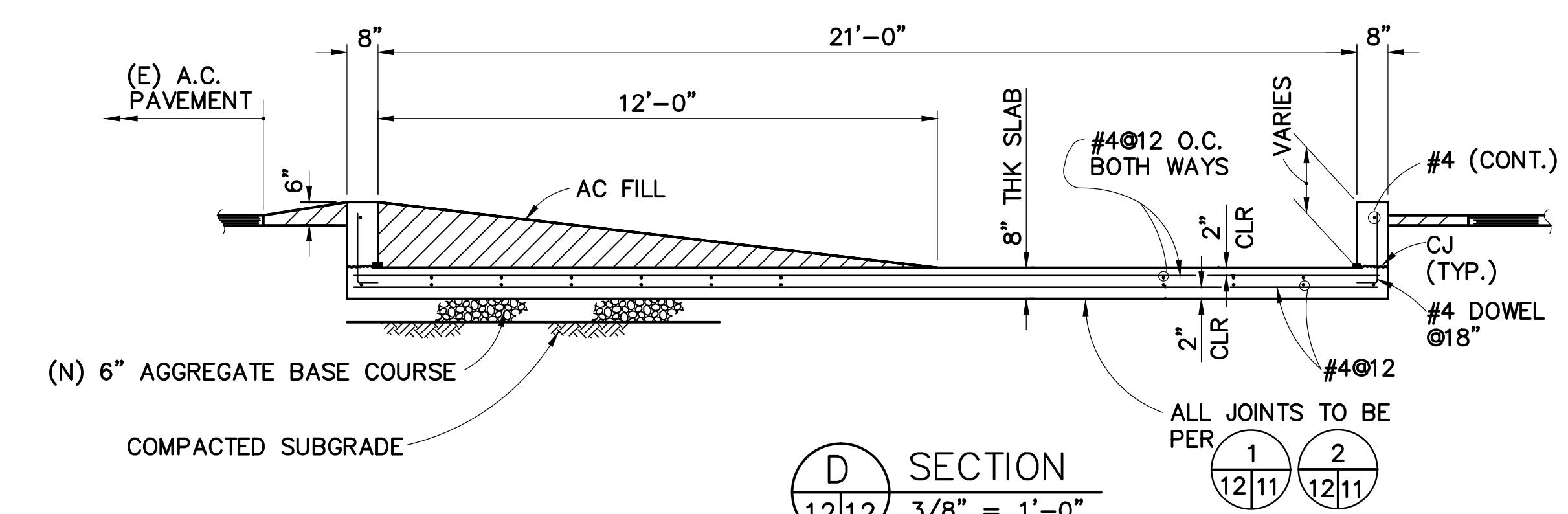
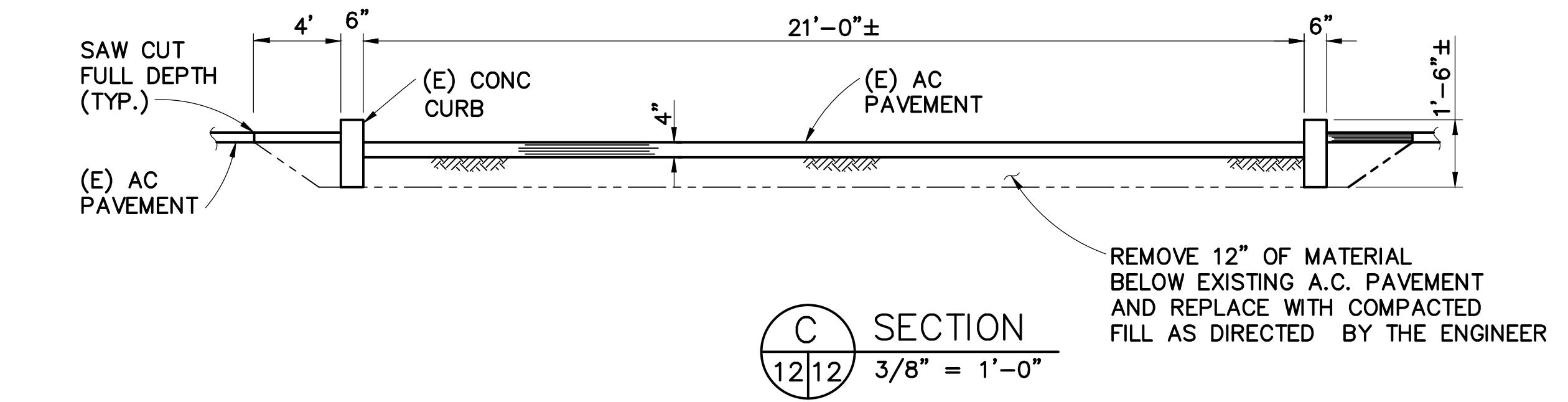
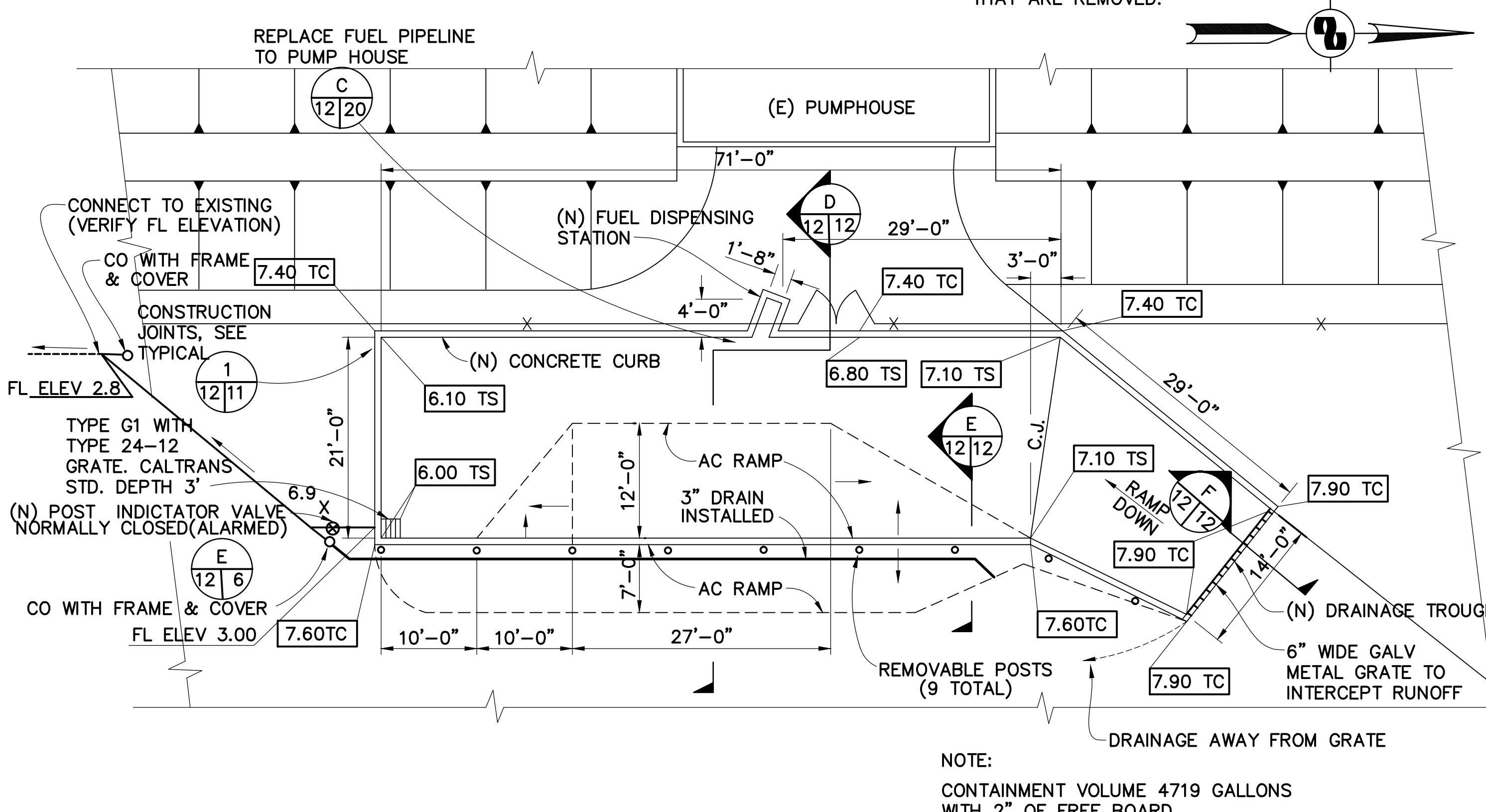
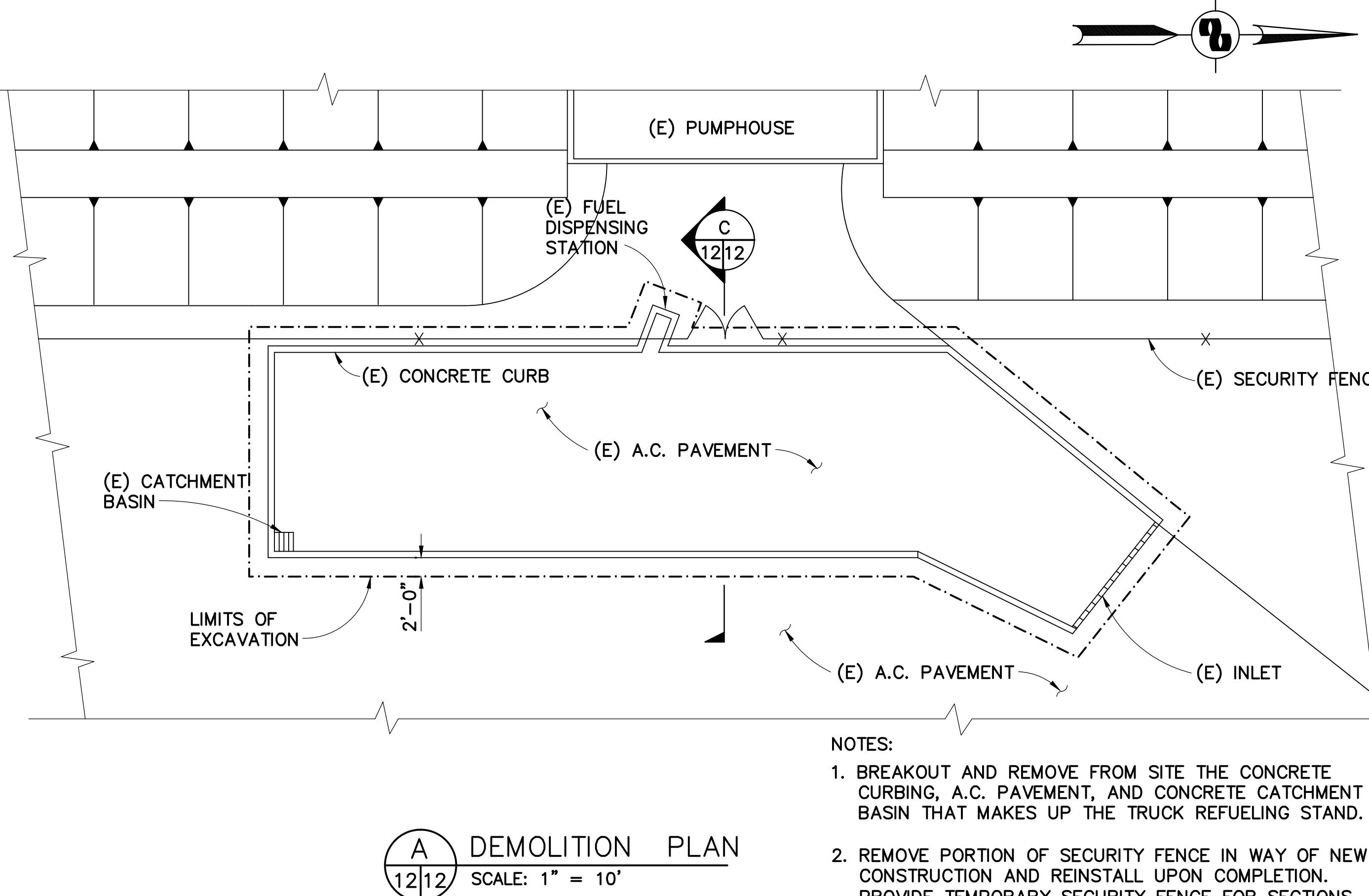


3"=1'-0"	0'	3"	6"	9"	1'
1"=1'-0"	1'	0'	1'	2'	

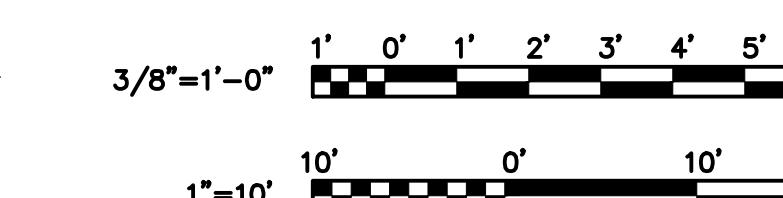
WINZELER & KELLY CONSULTING ENGINEERS
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(415) 283-4970 FAX (415) 283-4980

AS-BUILT	GM	7/19/01	
NO.	REVISIONS	BY	DATE
1			
CONTRACT NO. 97-FT-2	SHEET		
CAD FILE 97F02P11AB.DWG	11 OF 29		

APPROVED BY	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
REG'D PROFESSIONAL ENGINEER DAVIN C. GIACOMINI No. 21548 Exp. 9-30-97	
STATE OF CALIFORNIA	
CIVIL	
DISTRICT ENGINEER	
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
MISCELLANEOUS DETAILS	
DESIGNED BY AJD	CHECKED BY MDK
DRAWN BY AJD/DK	
SCALE AS SHOWN	DATE 2-17-98

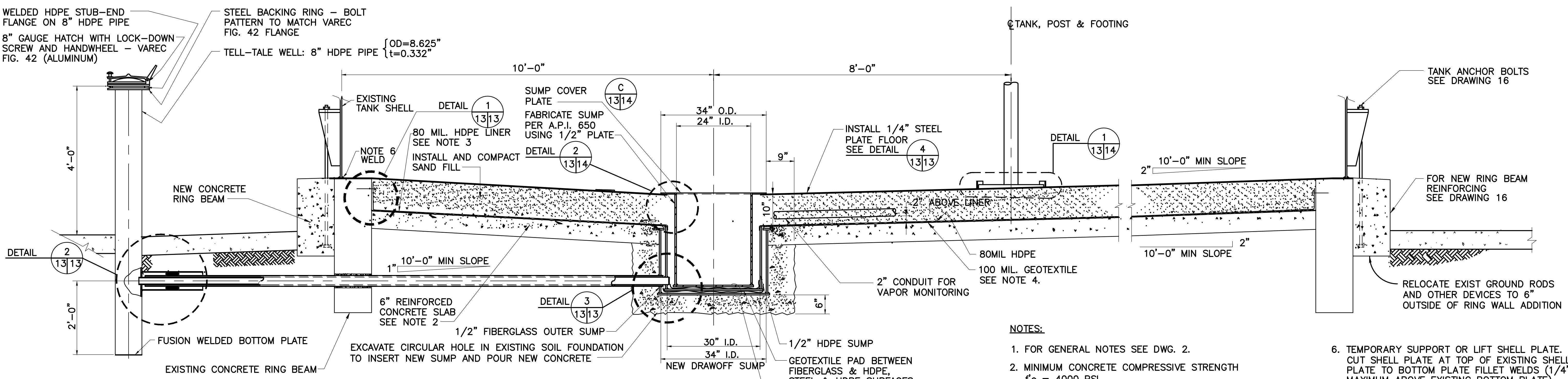


NOTE:
USE COMMERCIALLY AVAILABLE DRAINAGE GRATE
FOR HS 20 TRUCKS. DOUBLE HOT-DIPPED GALV.

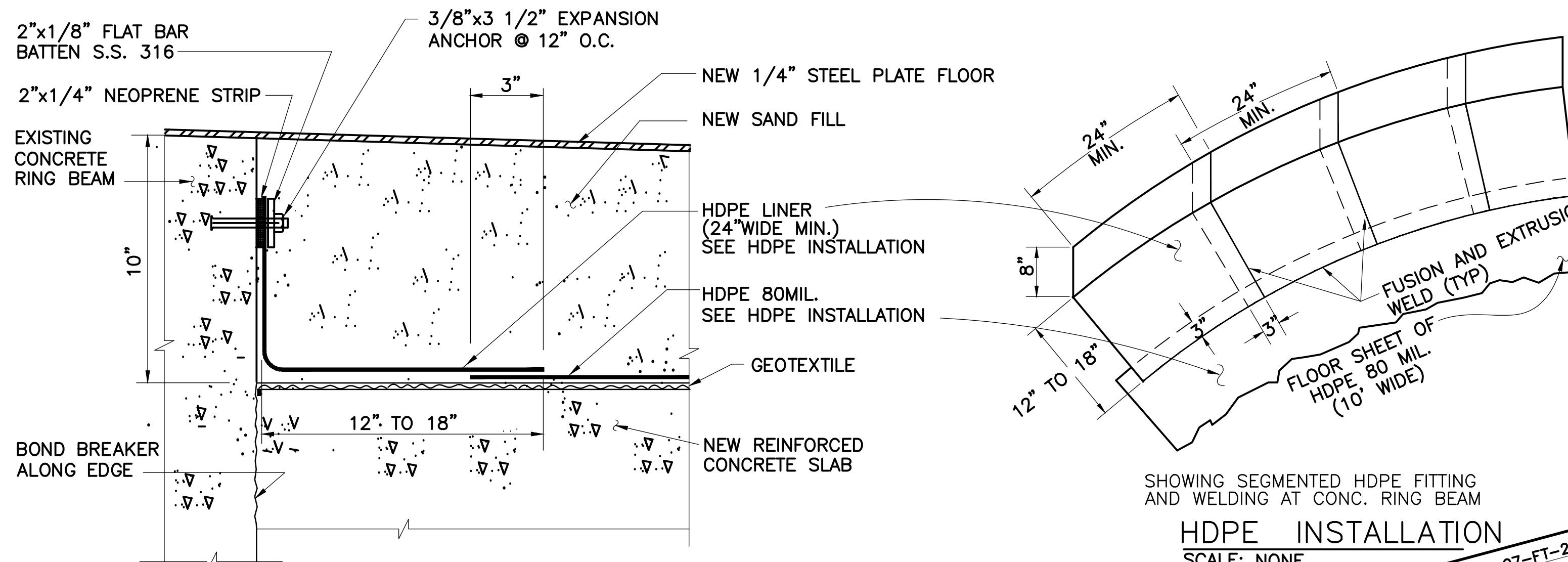


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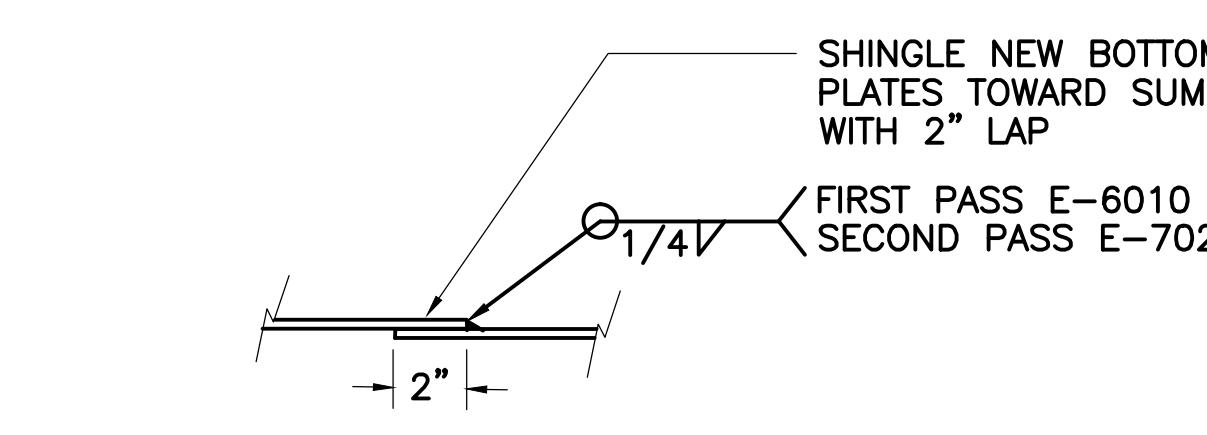
APPROVED BY		GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
		LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
AS-BUILT		TRUCK UNLOADING STAND CONTAINMENT DIKE	
NO.	REVISIONS	GM	DATE
1		7/19/01	
CONTRACT NO. 97-FT-2		SHEET	
		12 OF 29	
CAD FILE 97F02P12AB.DWG		DATE	
DESIGNED BY MDK		CHECKED BY THP DRAWN BY DK	
SCALE AS SHOWN		DATE 2-17-98	



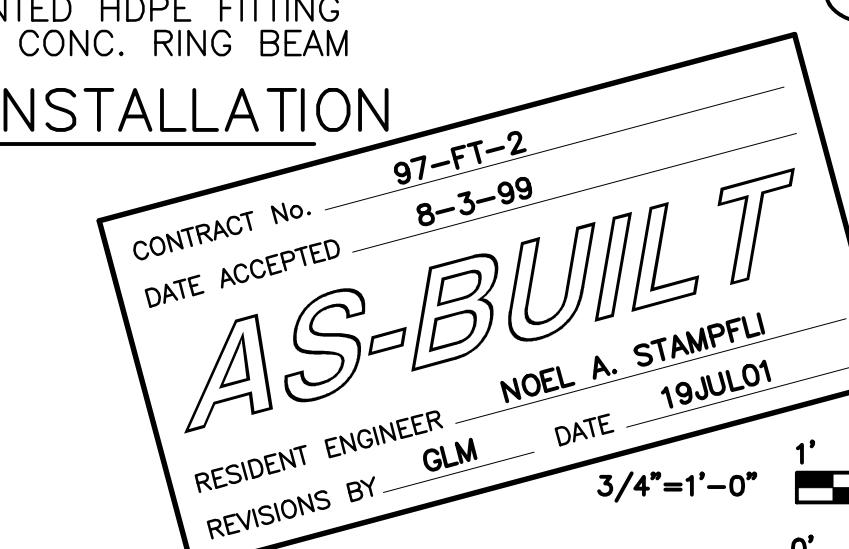
A NEW DRAWOFF SUMP SECTION
1313 SCALE: $3/4'' = 1'-0''$



1 DETAIL
1313 3" = 1'-0"



4 STEEL PLATE WELDS DETAILS
1313 SCALE: 3" = 1'-0"

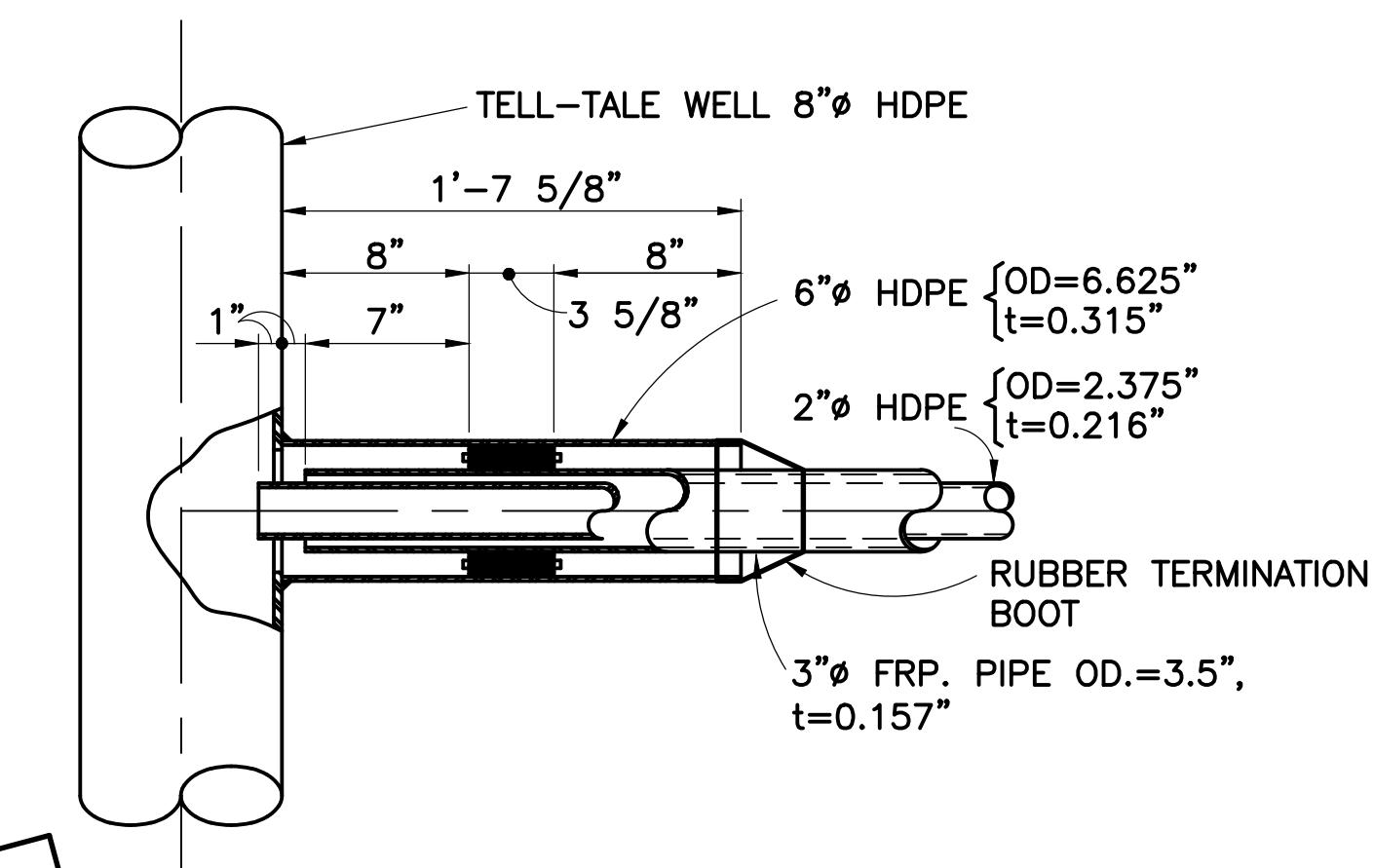


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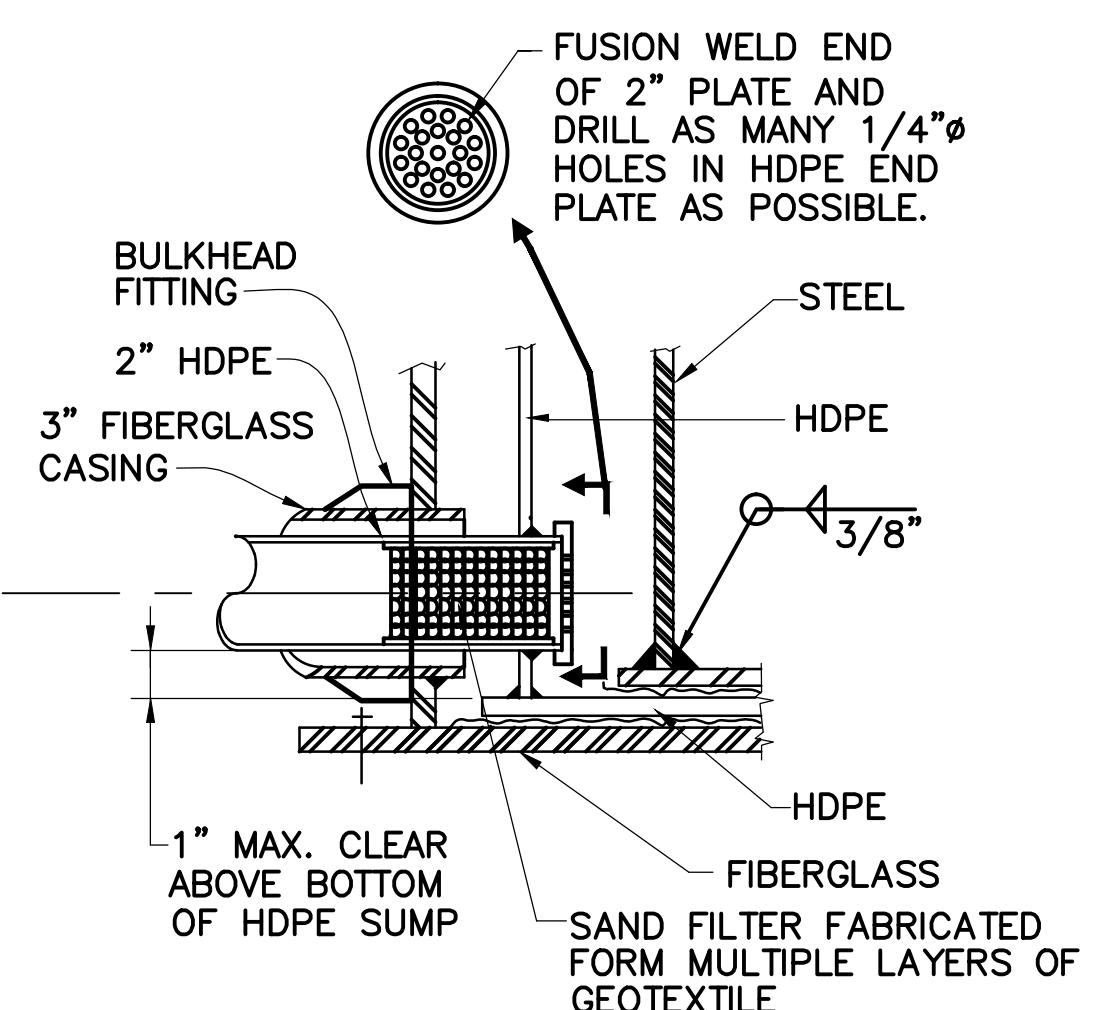
APPROVED BY		GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
		LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
TANK SECONDARY CONTAINMENT		DRAWN BY PVB	
DESIGNED BY JP	CHECKED BY	DRAWN BY	PVB
SCALE AS SHOWN		DATE 2-17-98	

NOTES:

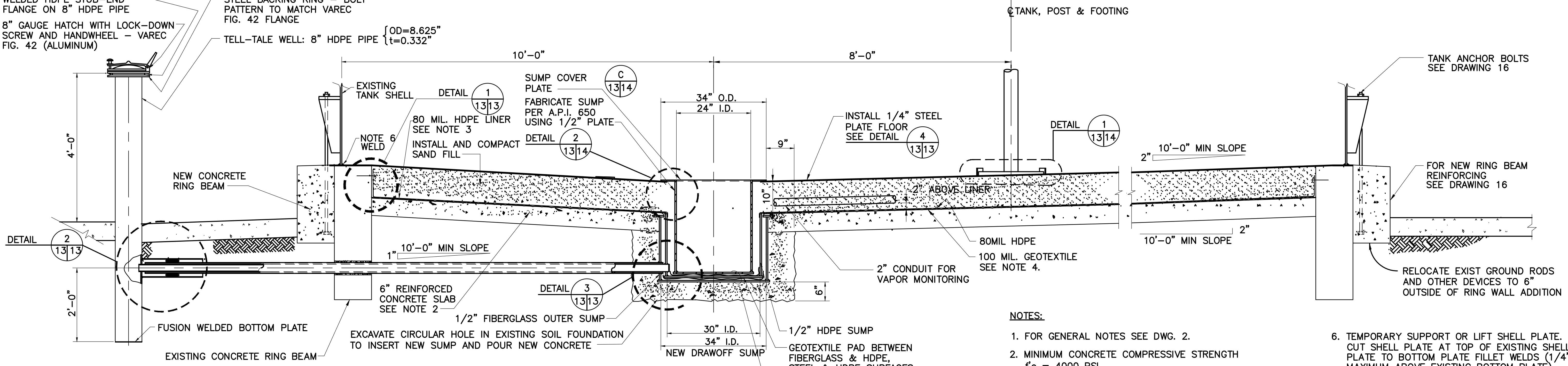
1. FOR GENERAL NOTES SEE DWG. 2.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH $f'_c = 4000$ PSI.
REINFORCING STEEL YIELD STRENGTH = 60,000 PSI
3. HDPE LINER, ANCHOR AND PIPE SHALL BE HIGH DENSITY POLYETHYLENE RESIN BY GUNDEL MANUFACTURING, OR APPROVED EQUAL.
4. GEOTEXTILE PAD SHALL BE SYNTHETIC INDUSTRIES GRADE 1001, 100 MILS THICK; OR APPROVED EQUAL.
5. LINK-SEAL SHALL BE THUNDERLINE CORP. MODEL LS-425, OR APPROVED EQUAL.
6. TEMPORARY SUPPORT OR LIFT SHELL PLATE. CUT SHELL PLATE AT TOP OF EXISTING SHELL PLATE TO BOTTOM PLATE FILLET WELDS ($1/4''$ MAXIMUM ABOVE EXISTING BOTTOM PLATE). PERFORM OTHER WORK AS INDICATED ON THESE PLANS AND IN THE SPECIFICATIONS. INSERT AND INSTALL NEW BOTTOM PLATE. LOWER SHELL ONTO BOTTOM PLATE AND WELD TO BOTTOM PLATE AS PER API 650. CONTRACTOR MAY SUBMIT AN ALTERNATE PROCEDURE FOR REVIEW AND APPROVAL BY OWNER.



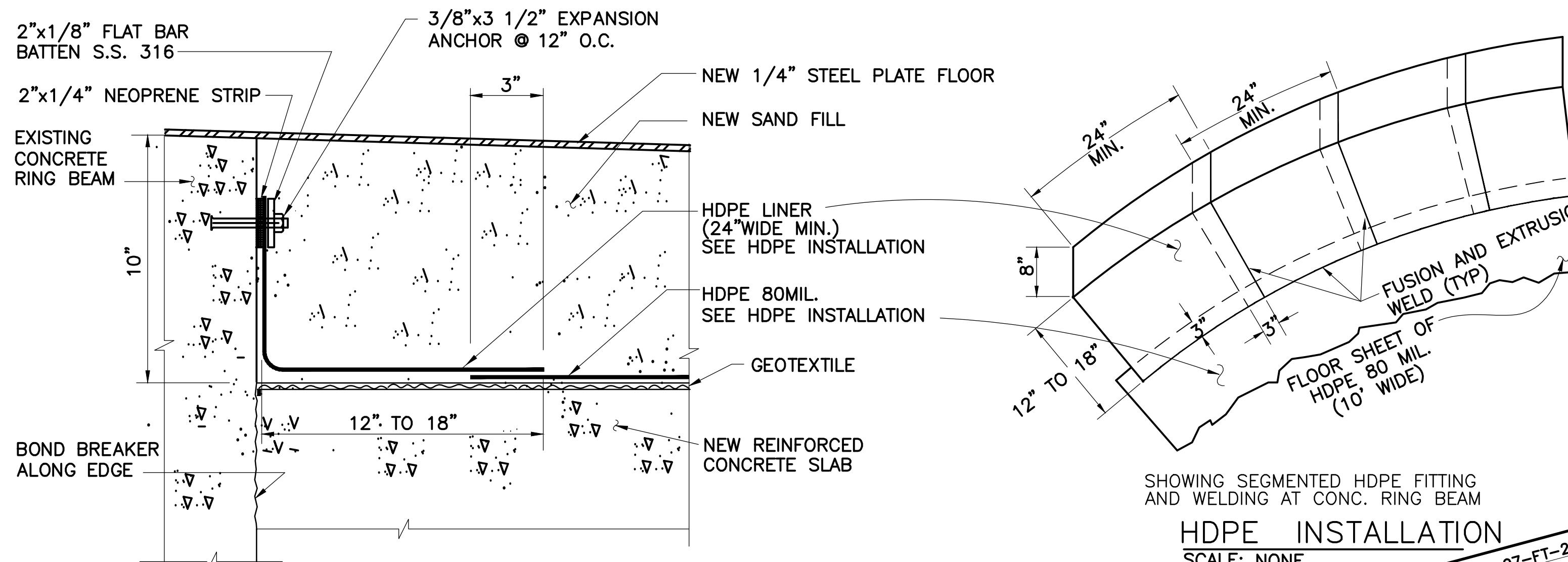
2 DETAIL
1313 1 1/2" = 1'-0"



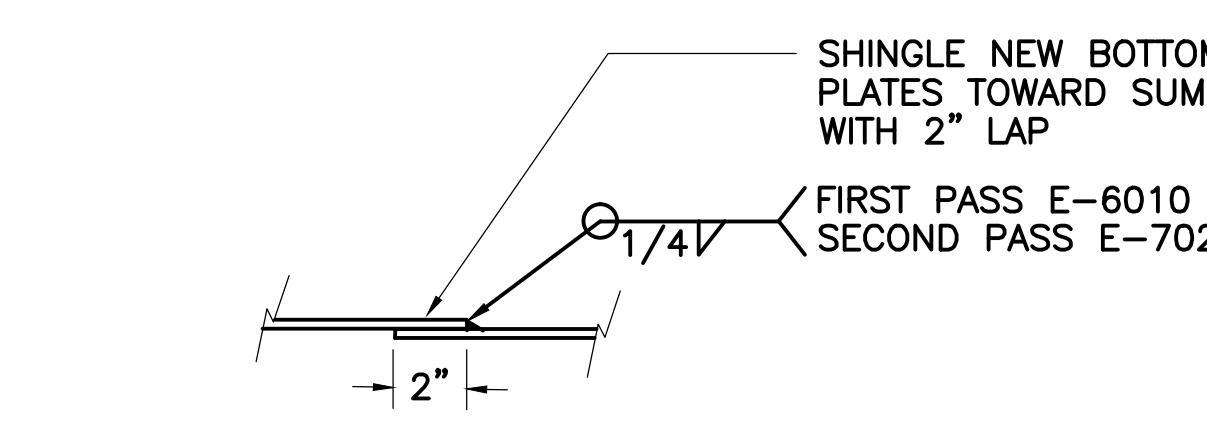
3 DETAIL
1313 SCALE: 3" = 1'-0"



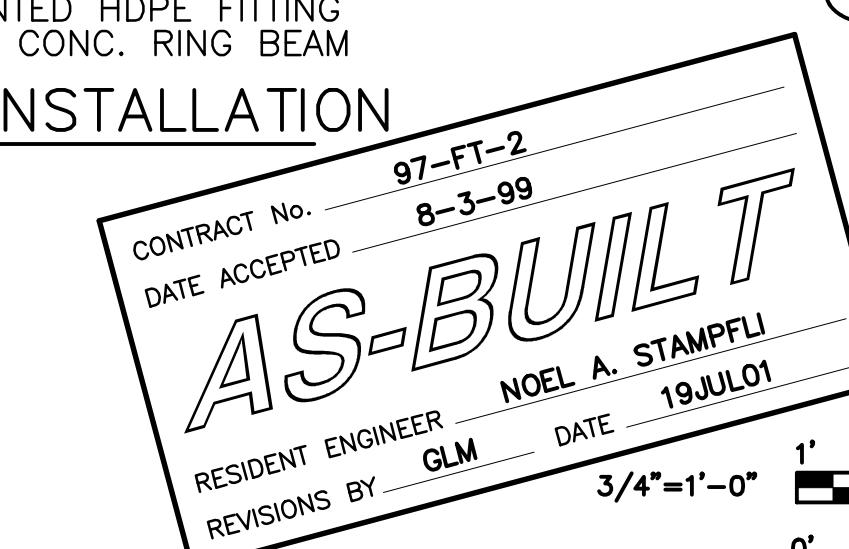
A NEW DRAWOFF SUMP SECTION
1313 SCALE: $3/4'' = 1'-0''$



1 DETAIL
1313 3" = 1'-0"

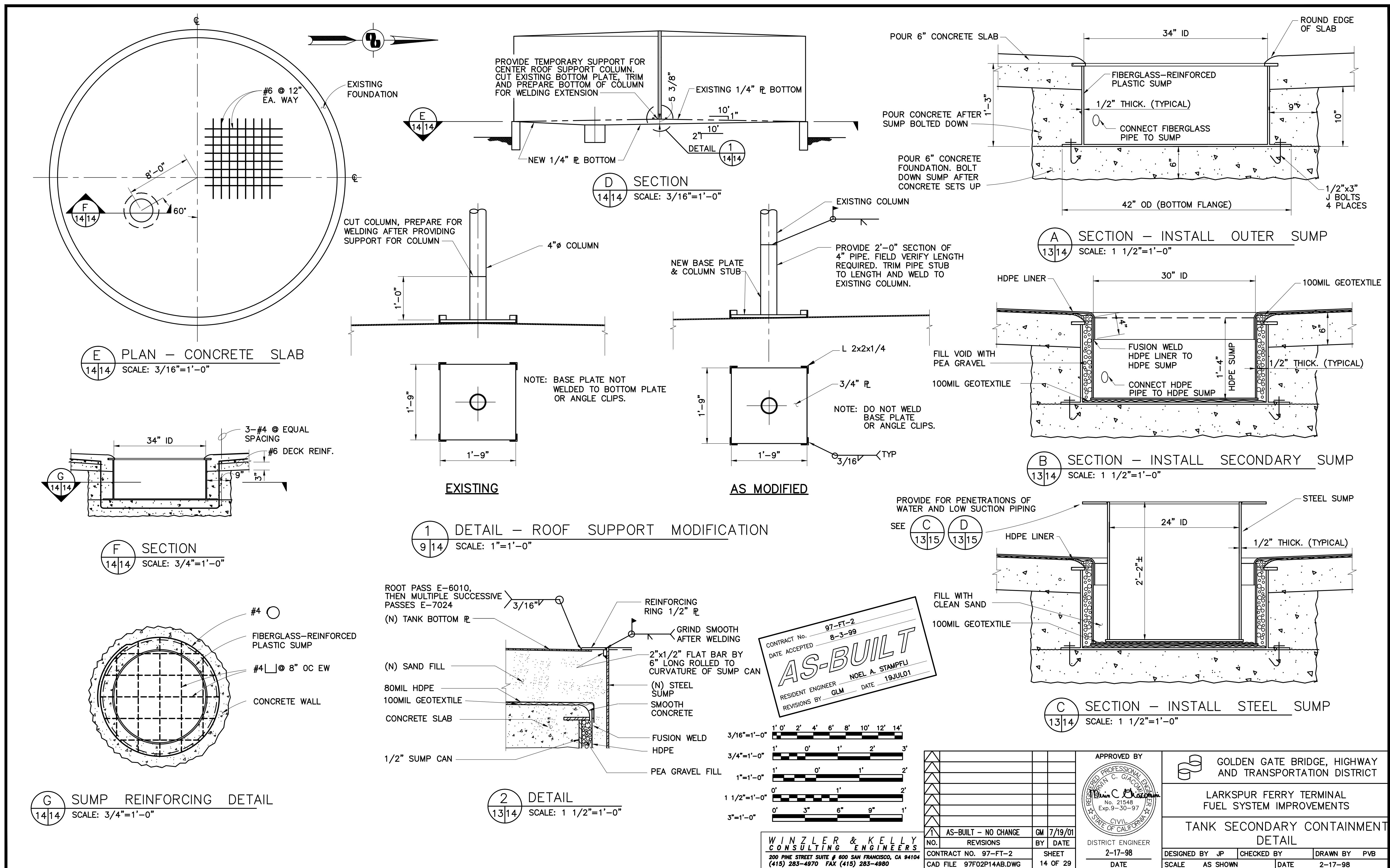


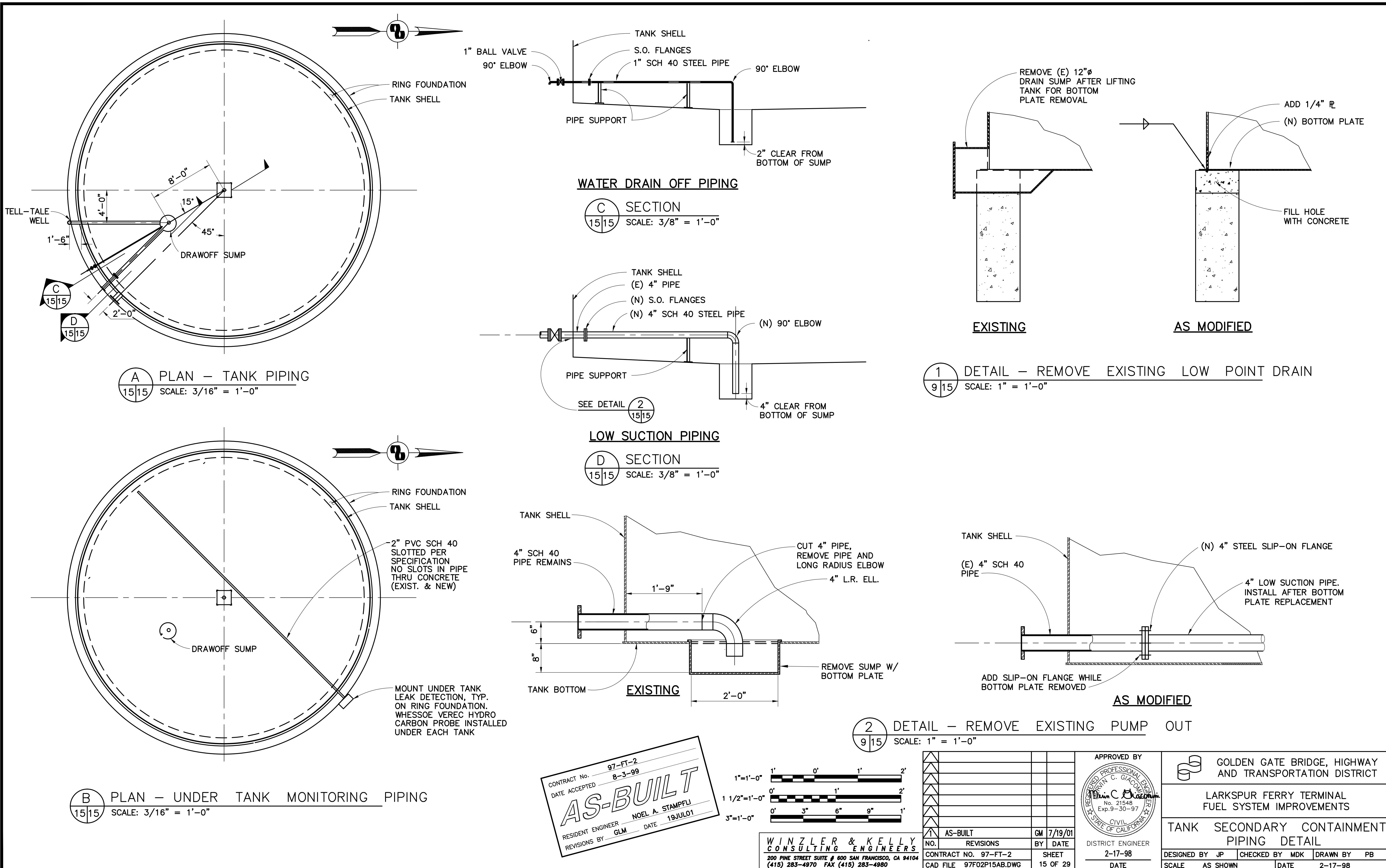
4 STEEL PLATE WELDS DETAILS
1313 SCALE: 3" = 1'-0"

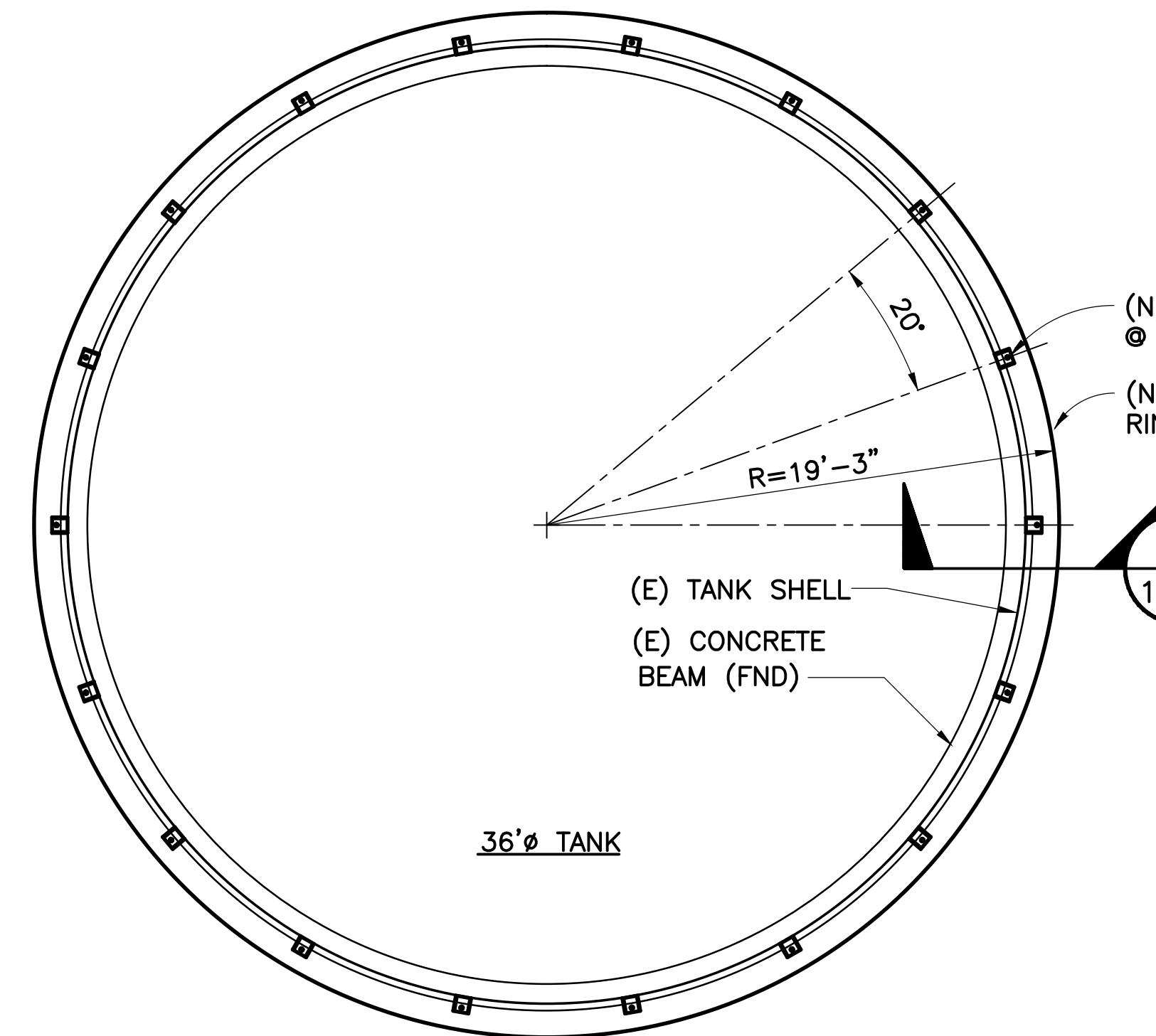


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APPROVED BY		GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
		LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
TANK SECONDARY CONTAINMENT		DRAWN BY PVB	
DESIGNED BY JP	CHECKED BY	DRAWN BY	PVB
SCALE AS SHOWN		DATE 2-17-98	

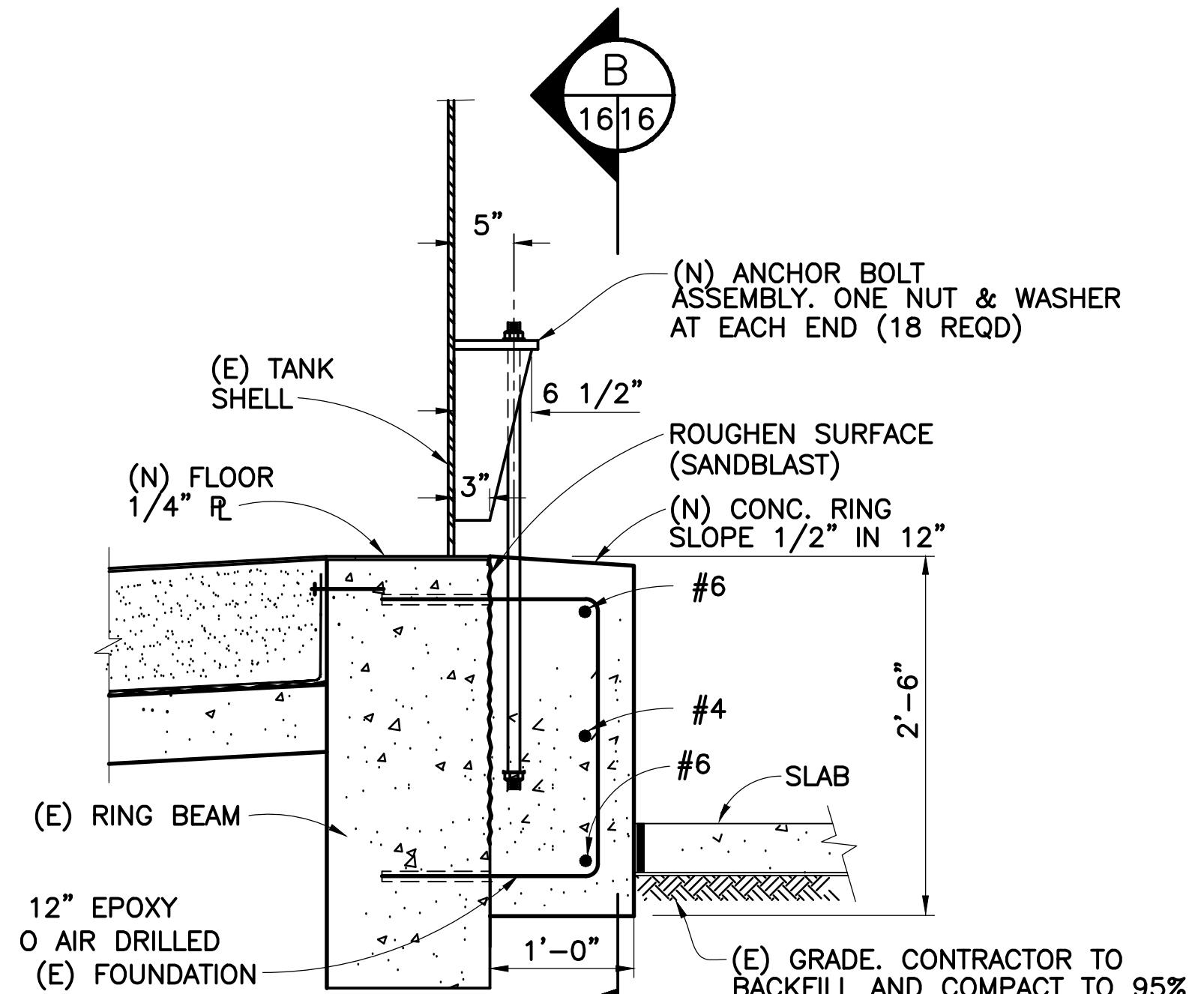




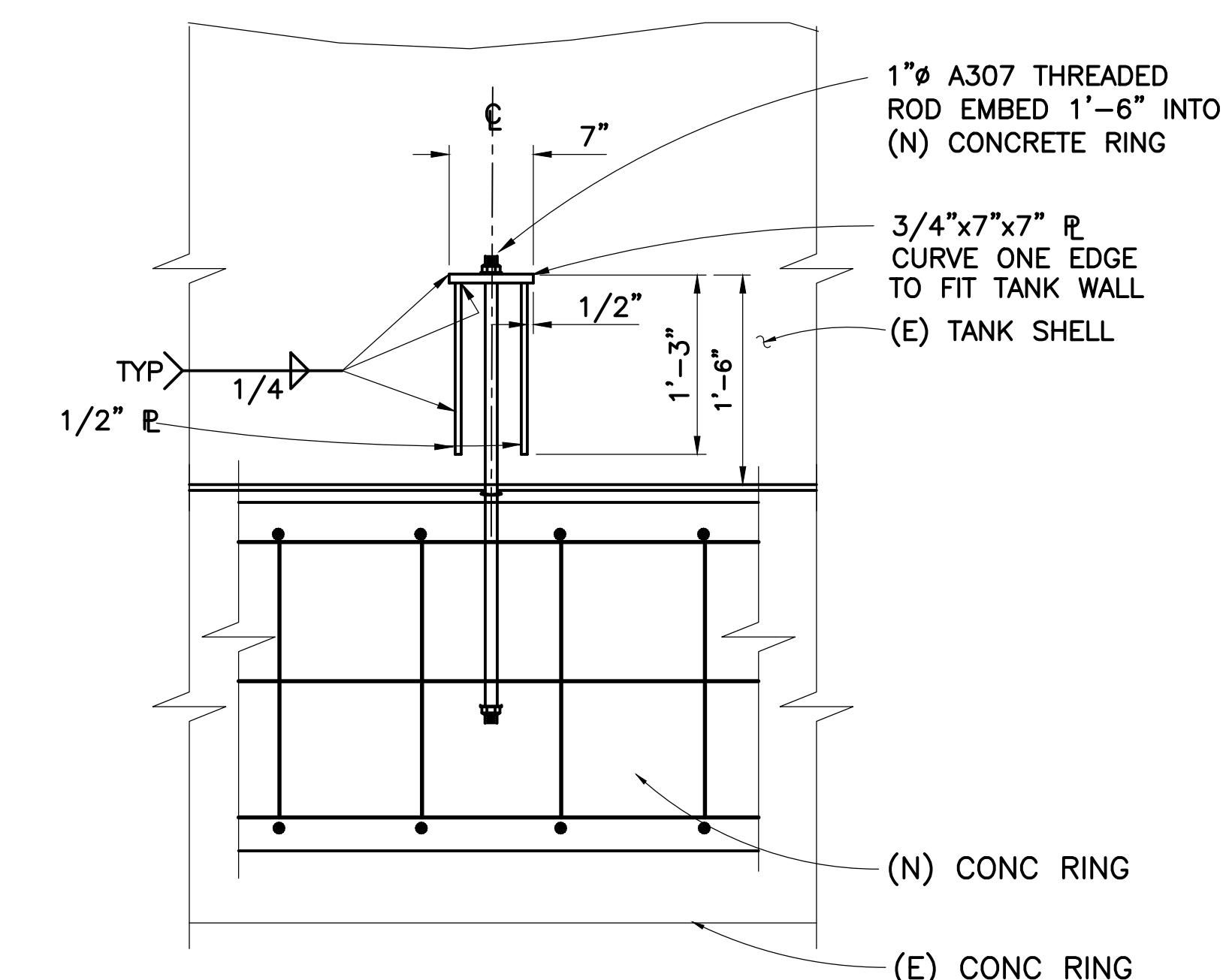


PLAN - TYPICAL FUEL TANK

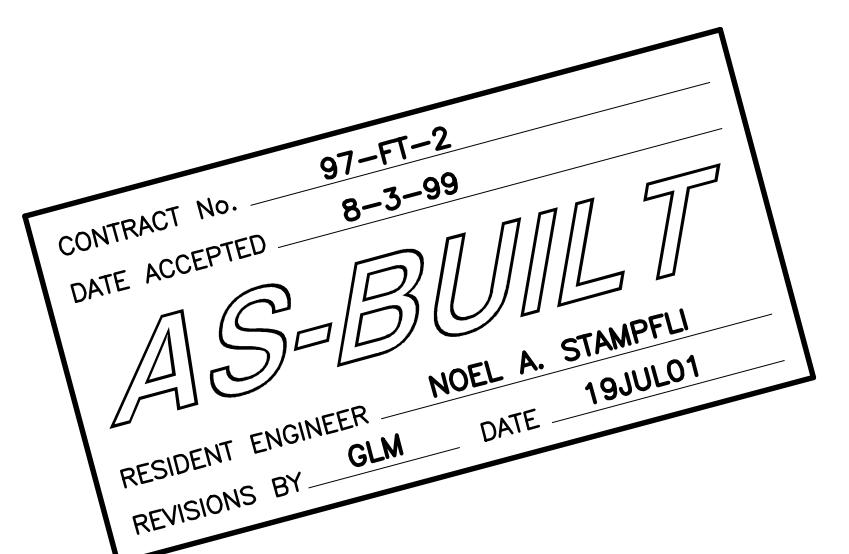
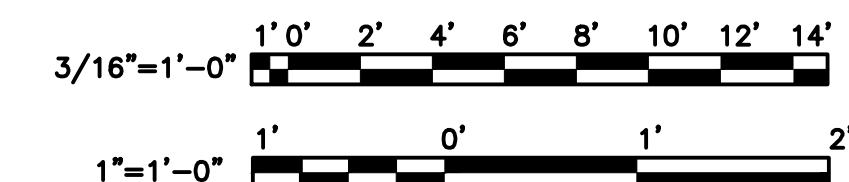
SCALE: 3/16" = 1'-0"



A SECTION
10,16|16 SCALE: 1" = 1'-0"



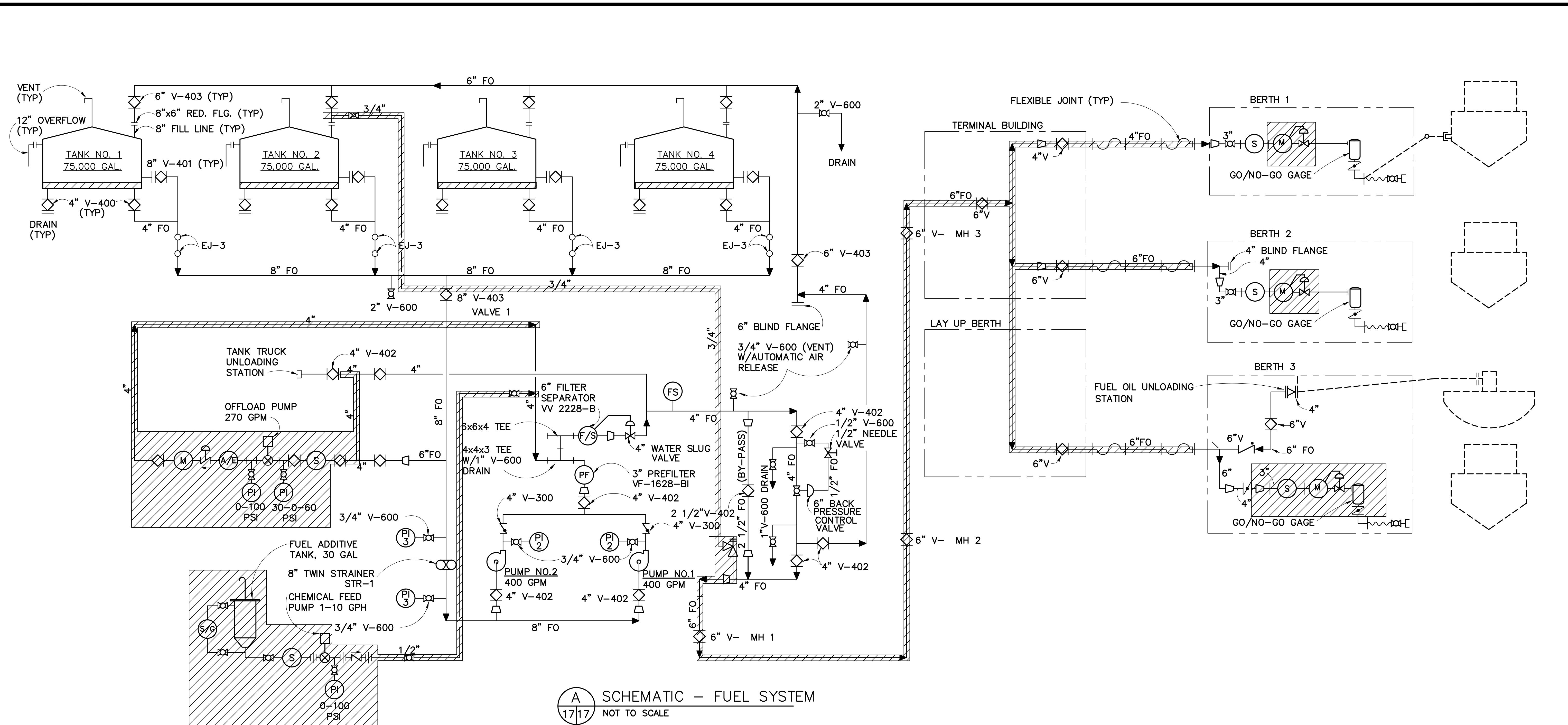
B SECTION
16|16 SCALE: 1" = 1'-0"



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1			7/19/01
CONTRACT NO.	97-FT-2	SHEET	
CAD FILE	97F02P16AB.DWG	16 OF 29	

APPROVED BY	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
DAVIN C. GIACOMINI REGISTERED PROFESSIONAL ENGINEER No. 21548 Exp. 9-30-97		
CIVIL STATE OF CALIFORNIA		
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS		
TANK TIE-DOWN & MISC DETAILS		
DESIGNED BY	CHECKED BY	DRAWN BY
MDK		PVB
SCALE AS NOTED	DATE	2-17-98



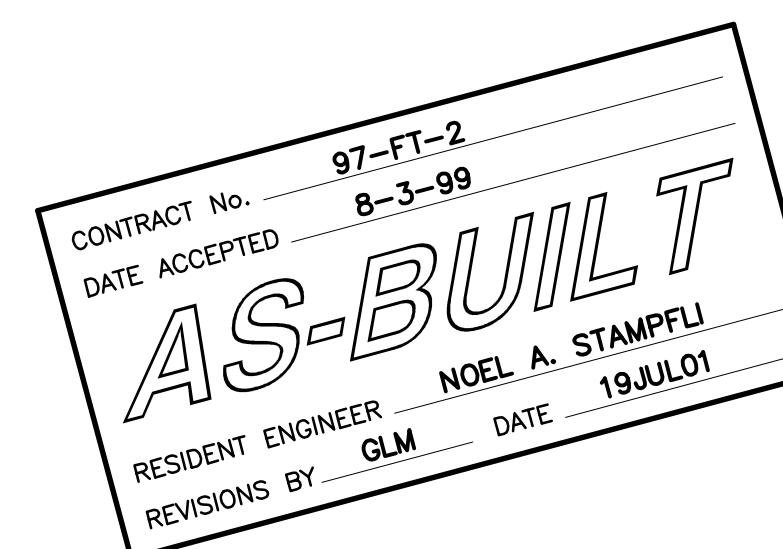
SYMBOLS:

■	BUTTERFLY VALVE
◇	PLUG VALVE
●	BALL VALVE WITH PLUG
▲	CHECK VALVE
○	STRAINER
(PI)	PRESSURE INDICATOR
(F/S)	FLOW SWITCH
(S)	STRAINER
(A/E)	AIR ELIMINATOR
(M)	METER
(M)	METER WITH AUTOMATIC SHUT-OFF VALVE
(S/G)	SIGHT GLASS
(PF)	PREFILTER
□	BALL VALVE
—	UNION
—	REDUCER
—	NON-SURGE CHECK VALVE

LEGEND:

EJ	EXPANSION JOINT
FO	FUEL OIL
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR

■ NEW WORK THIS PROJECT



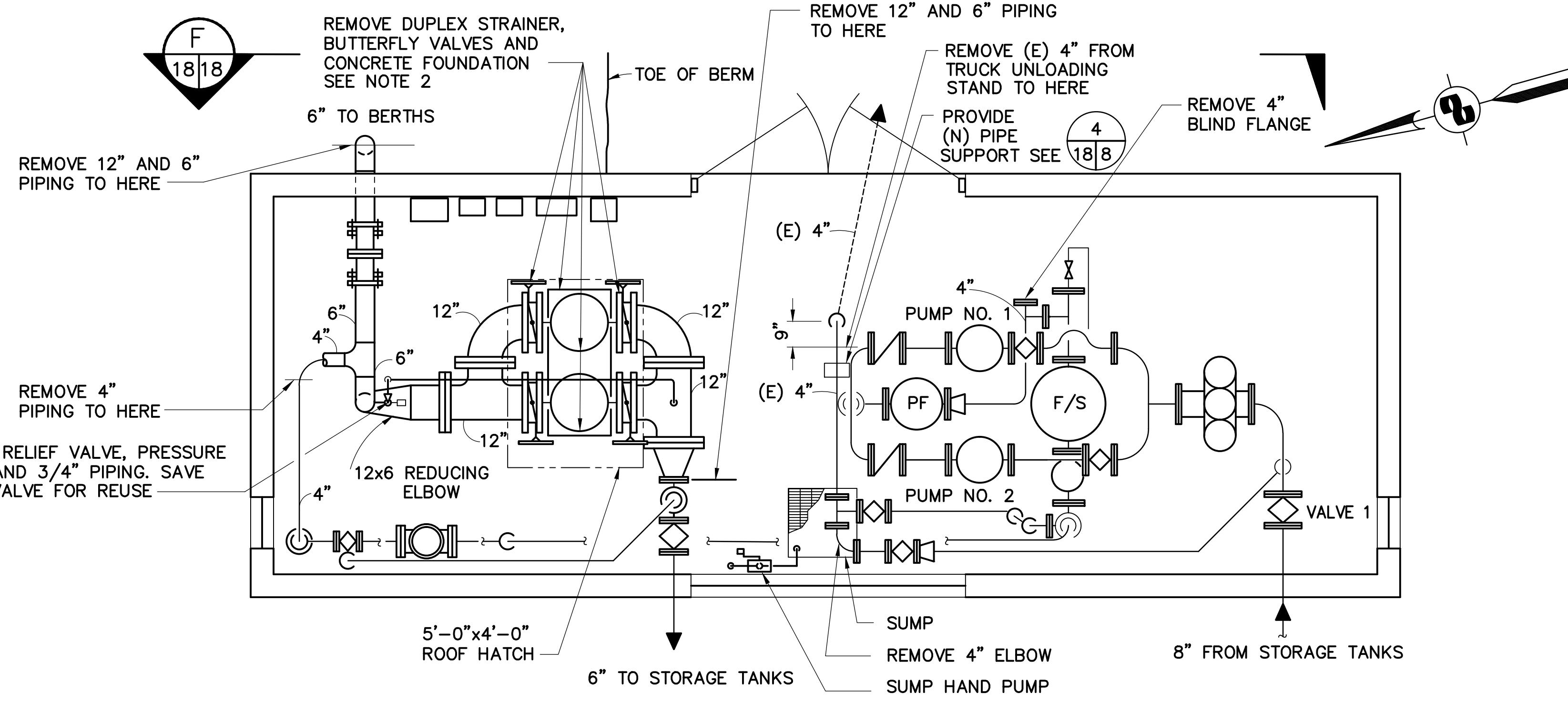
WINZELER & KELLY
CONSULTING ENGINEERS
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
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AS-BUILT - NO CHANGE			
NO.	REVISIONS	BY	DATE
CONTRACT NO. 97-FT-2			
CAD FILE 97F02P17AB.DWG			
17 OF 29			

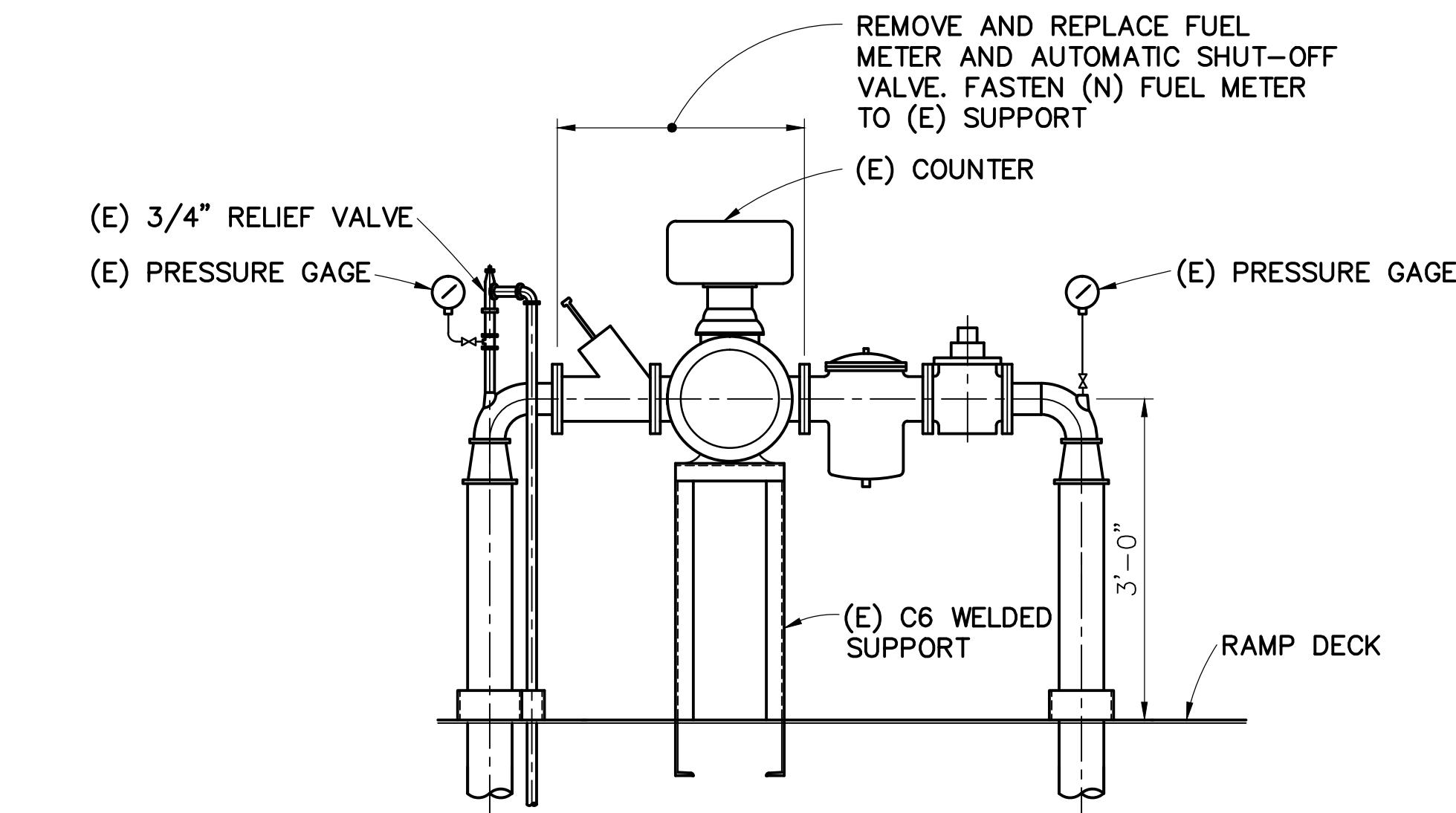
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT			
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
FUEL OIL FLOW DIAGRAM			
APPROVED BY ROBIN C. GIACOMINI REG'D PROFESSIONAL ENGINEER No. 21548 Exp. 9-30-97	CIVIL STATE OF CALIFORNIA		
DESIGNED BY SEF	CHECKED BY MDK	DRAWN BY PVB	DATE
SCALE NTS	DATE 2-17-98	DRAWN BY PVB	DATE 2-17-98

NOTE:

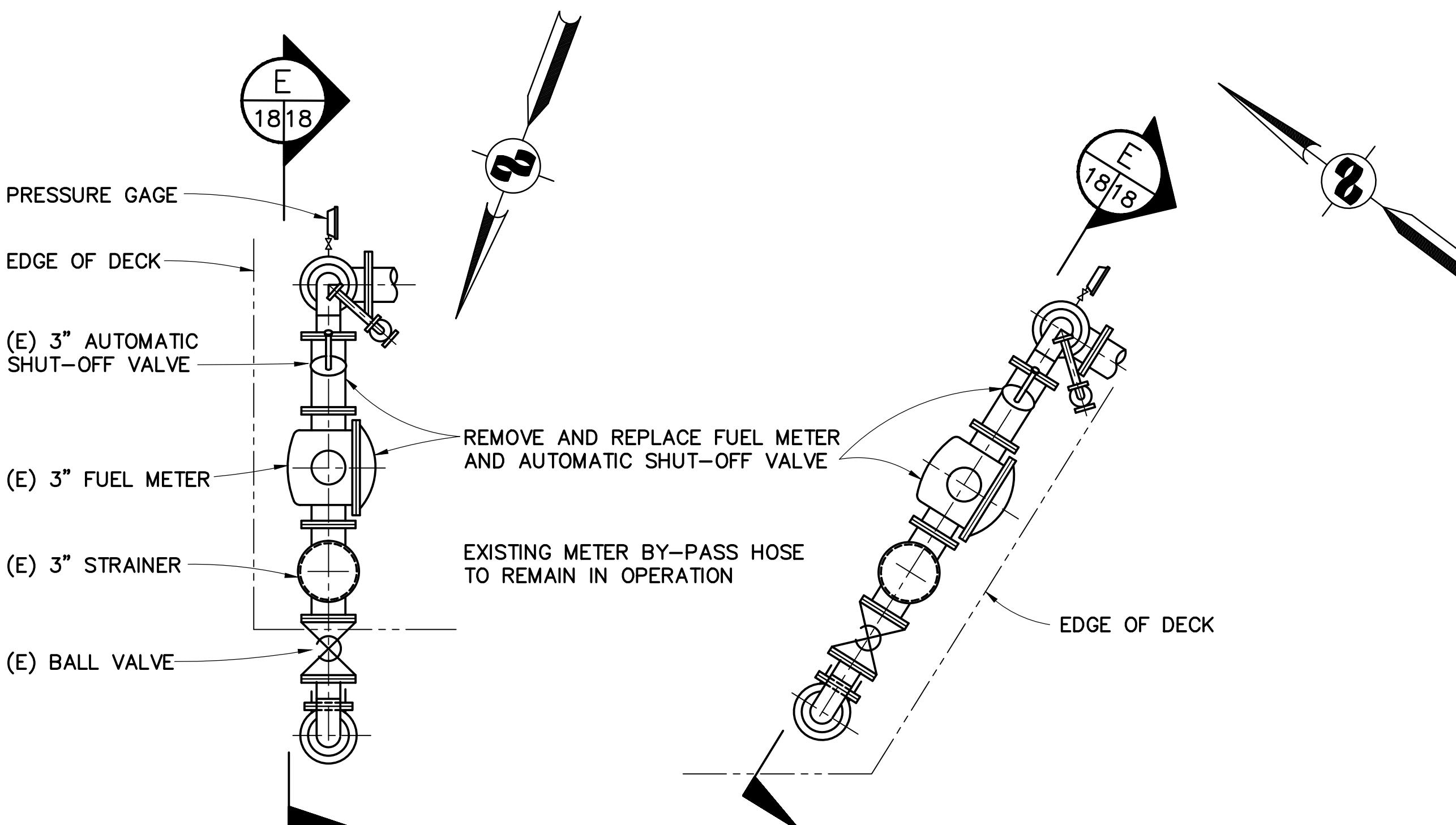
SCHEMATIC SHOWN REPRESENTS SYSTEM OPERATION UPON COMPLETION OF THIS PROJECT.



A PLAN - EXISTING FUEL OIL PUMPHOUSE - DEMOLITION
218 3/8" = 1'-0"



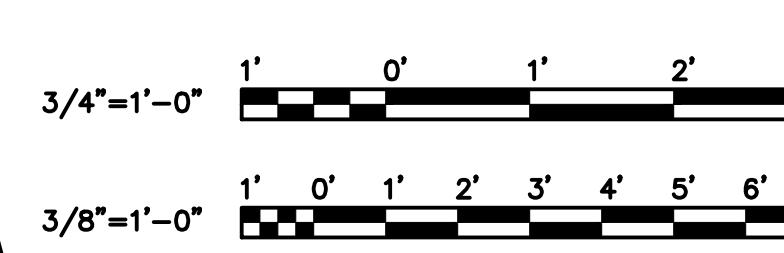
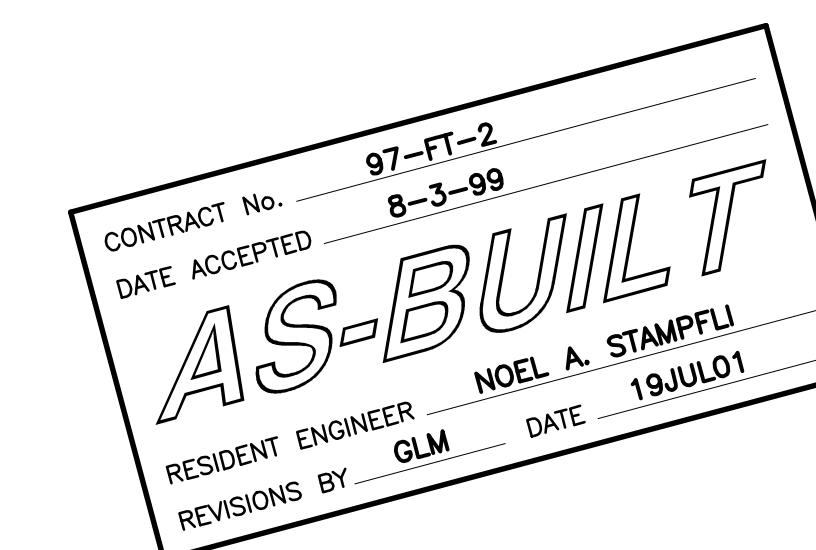
E SECTION
1818 3/4" = 1'-0" BERTHS 1 & 2



B PARTIAL PLAN
218 3/4" = 1'-0" BERTH 1

C PARTIAL PLAN
218 3/4" = 1'-0" BERTH 2

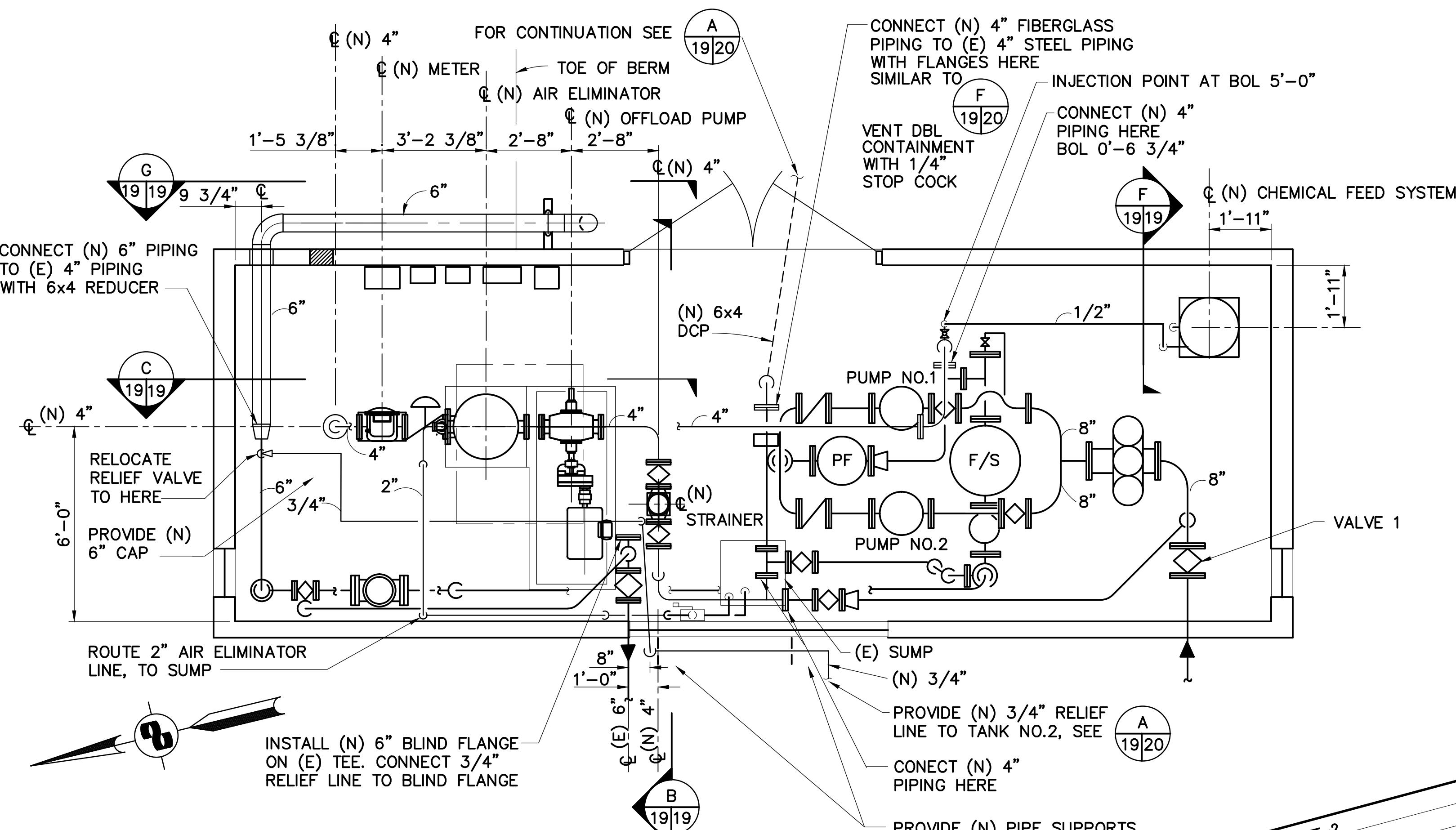
FUEL METER REPLACEMENT
BERTHS 1 & 2



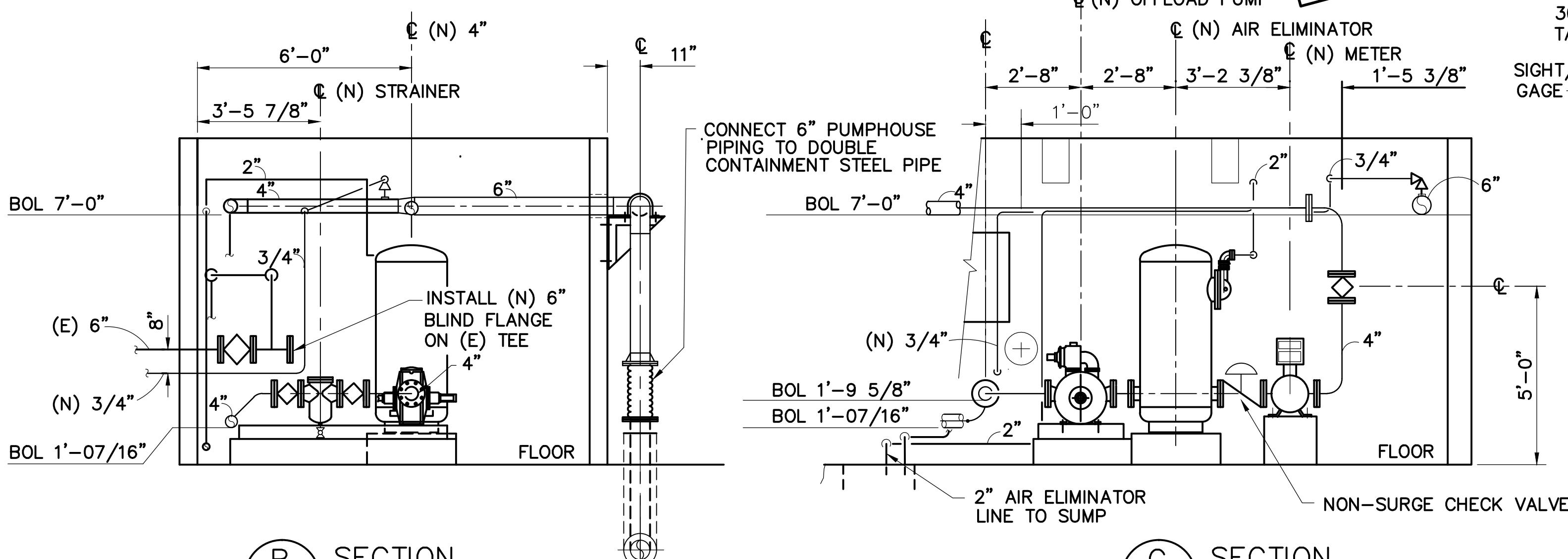
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CONSULTING ENGINEERS
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1			
CONTRACT NO. 97-FT-2	SHEET		
CAD FILE 97F02P18AB.DWG	18 OF 29		

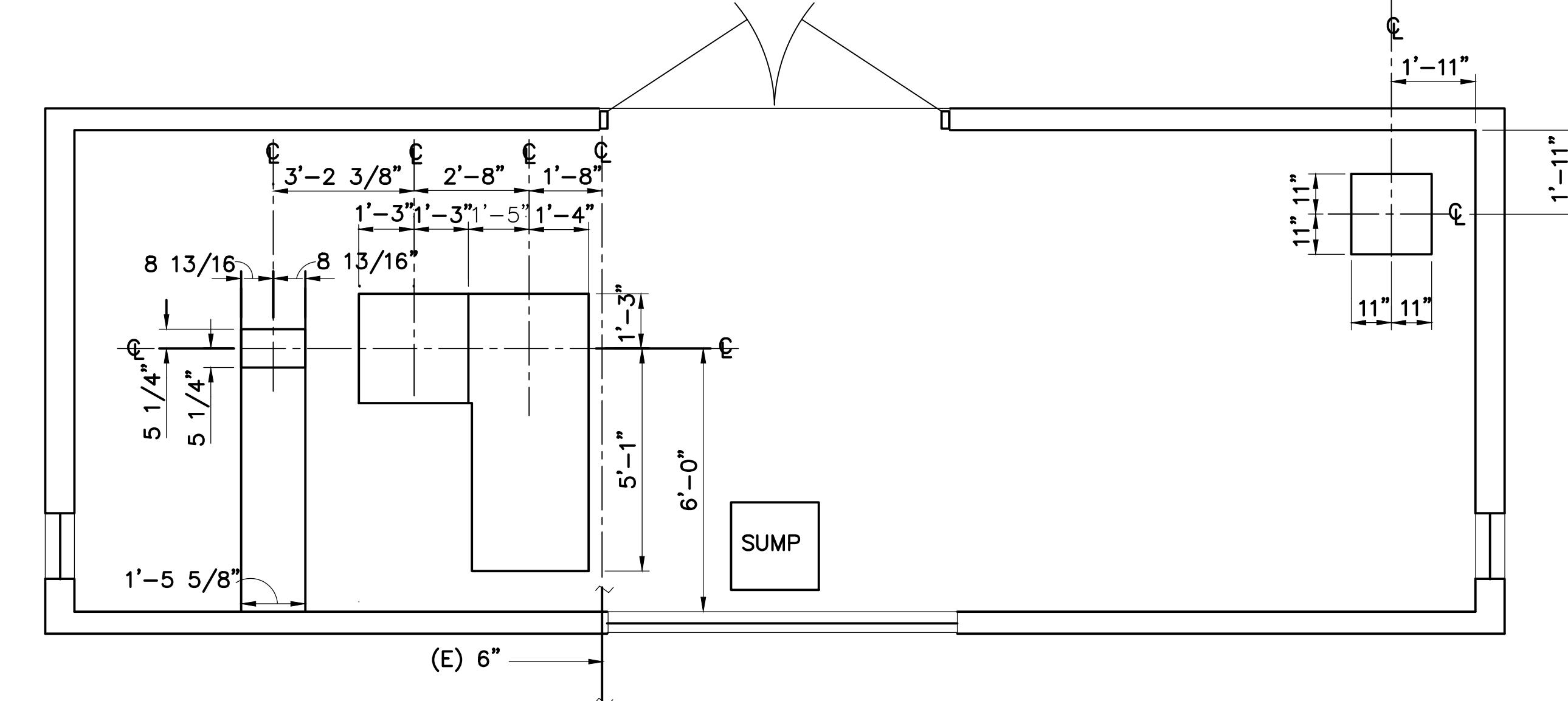
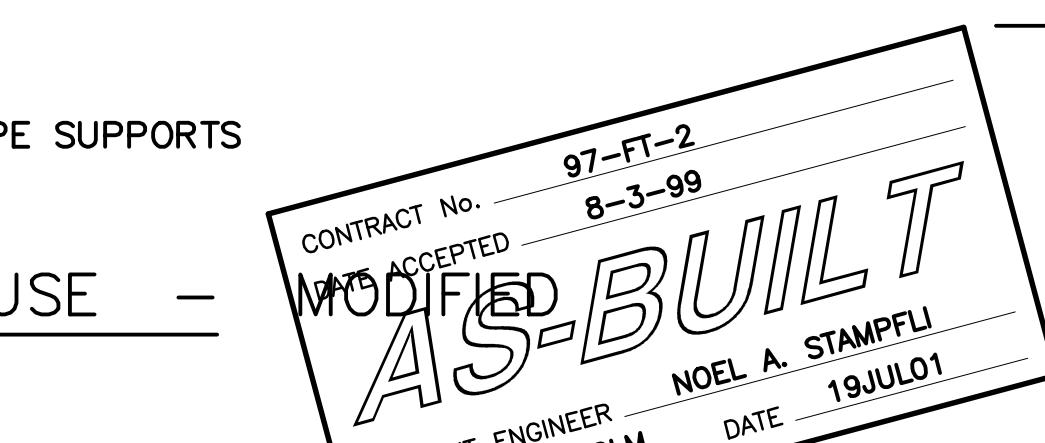
APPROVED BY 	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
PUMP ROOM PIPING / EQUIPMENT DEMOLITION	
DESIGNED BY SEF	CHECKED BY MDK
DRAWN BY PVB	DATE 2-17-98
SCALE AS SHOWN	DATE 2-17-98



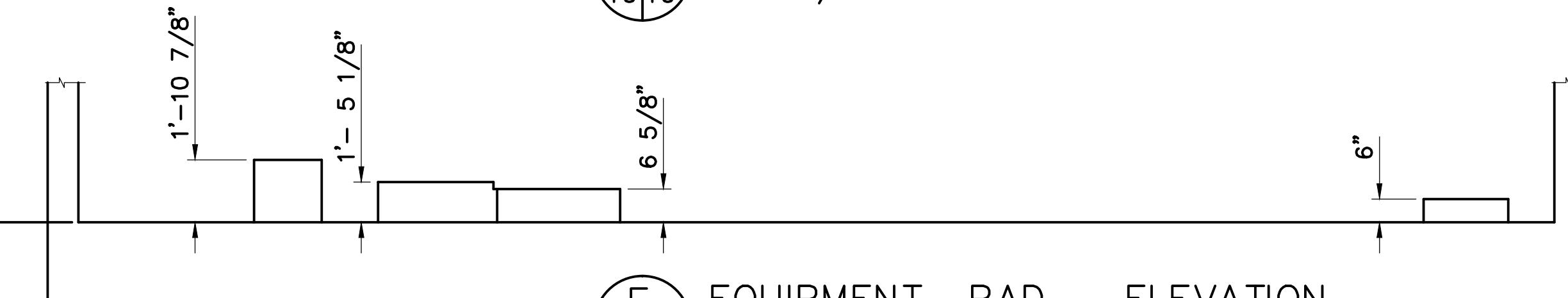
A PLAN - EXISTING FUEL OIL PUMPHOUSE -
2 19 SCALE: 3/8" = 1'-0"



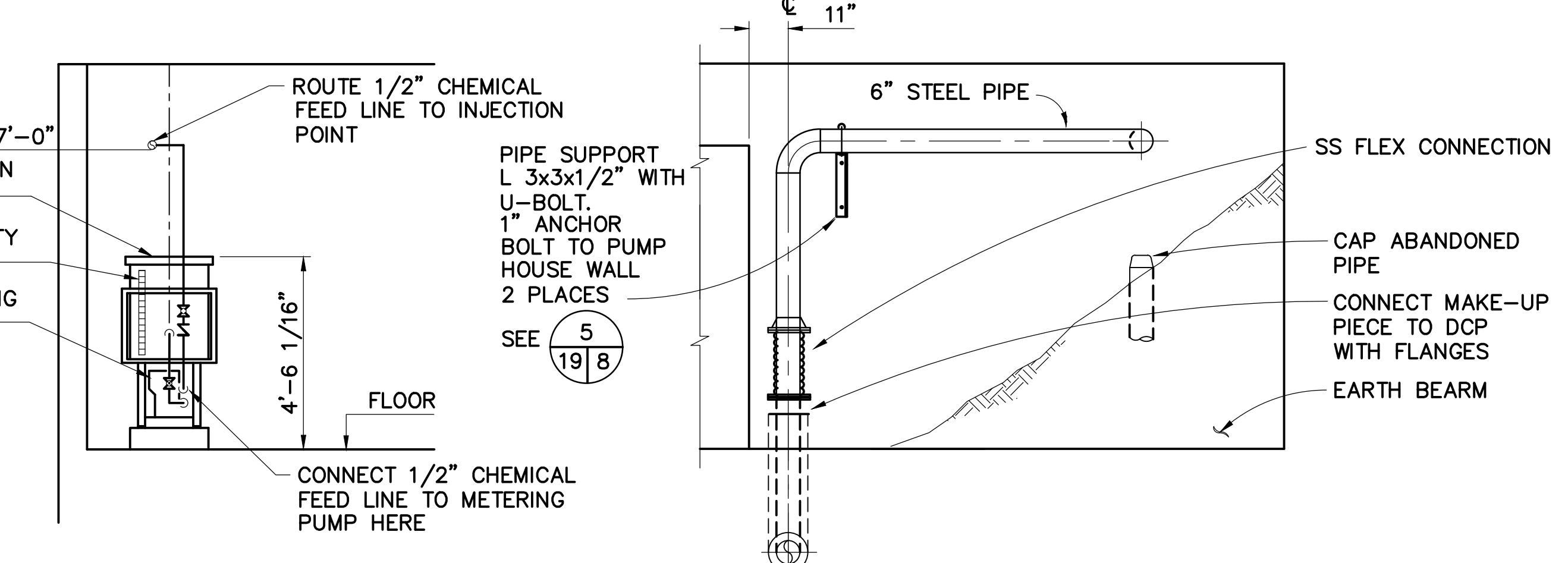
B SECTION
SCALE: $3/8"$ = $1'-0"$



D EQUIPMENT PAD - PLAN
1919 SCALE: 3/8" = 1'-0"

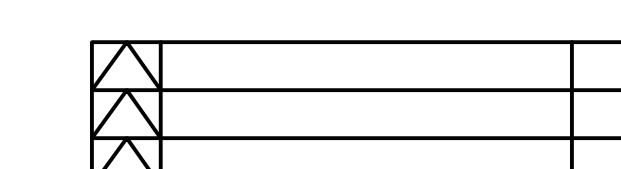


E EQUIPMENT PAD – ELEVATION
1919 SCALE: 3/8" = 1'-0"

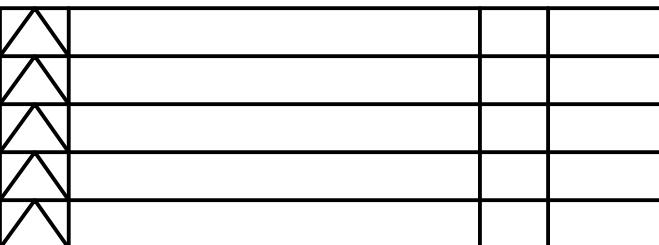
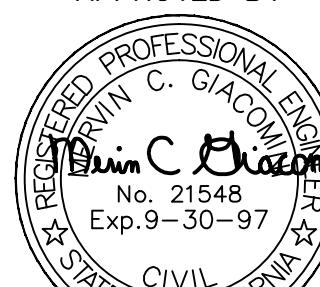


F SECTION

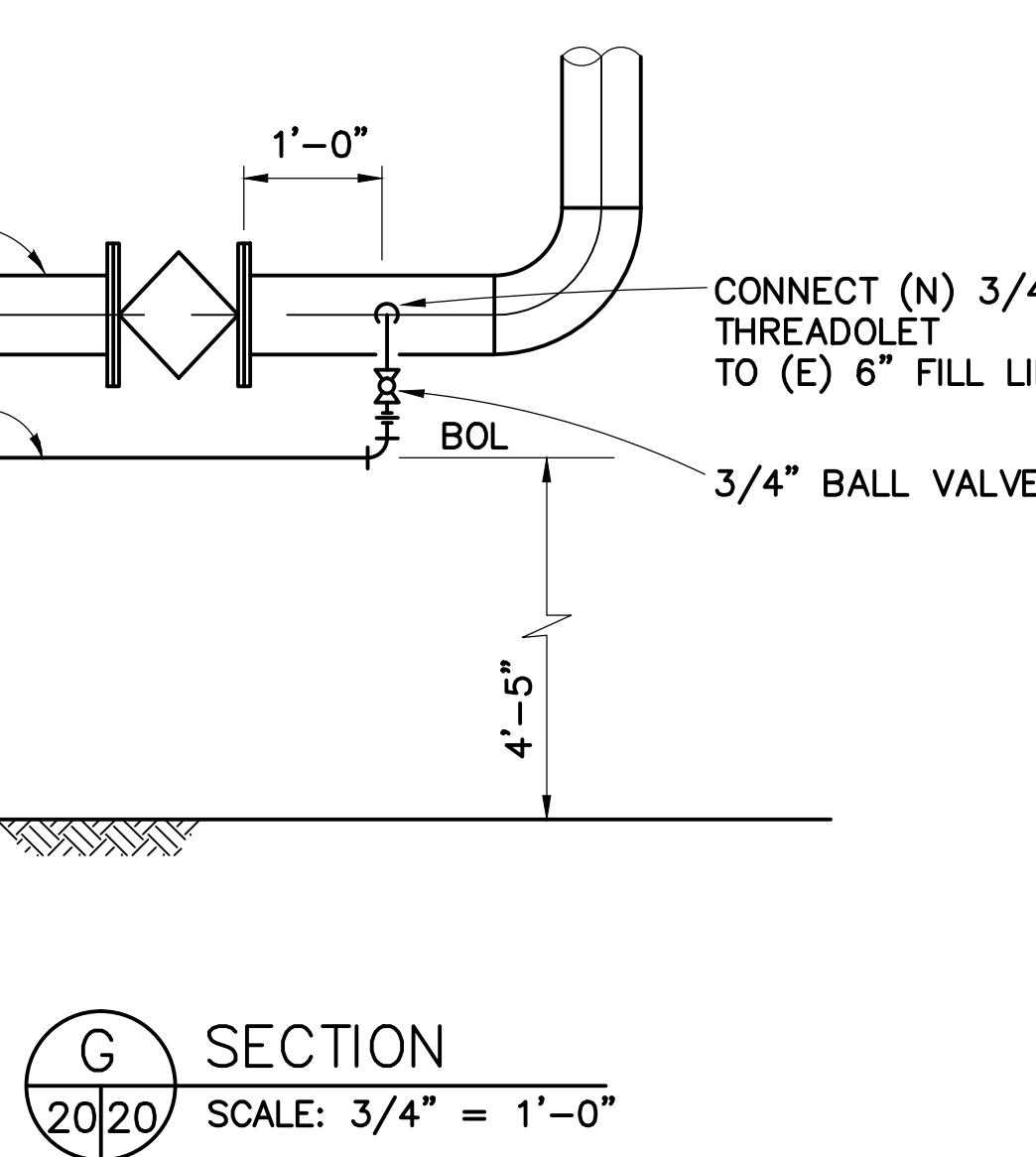
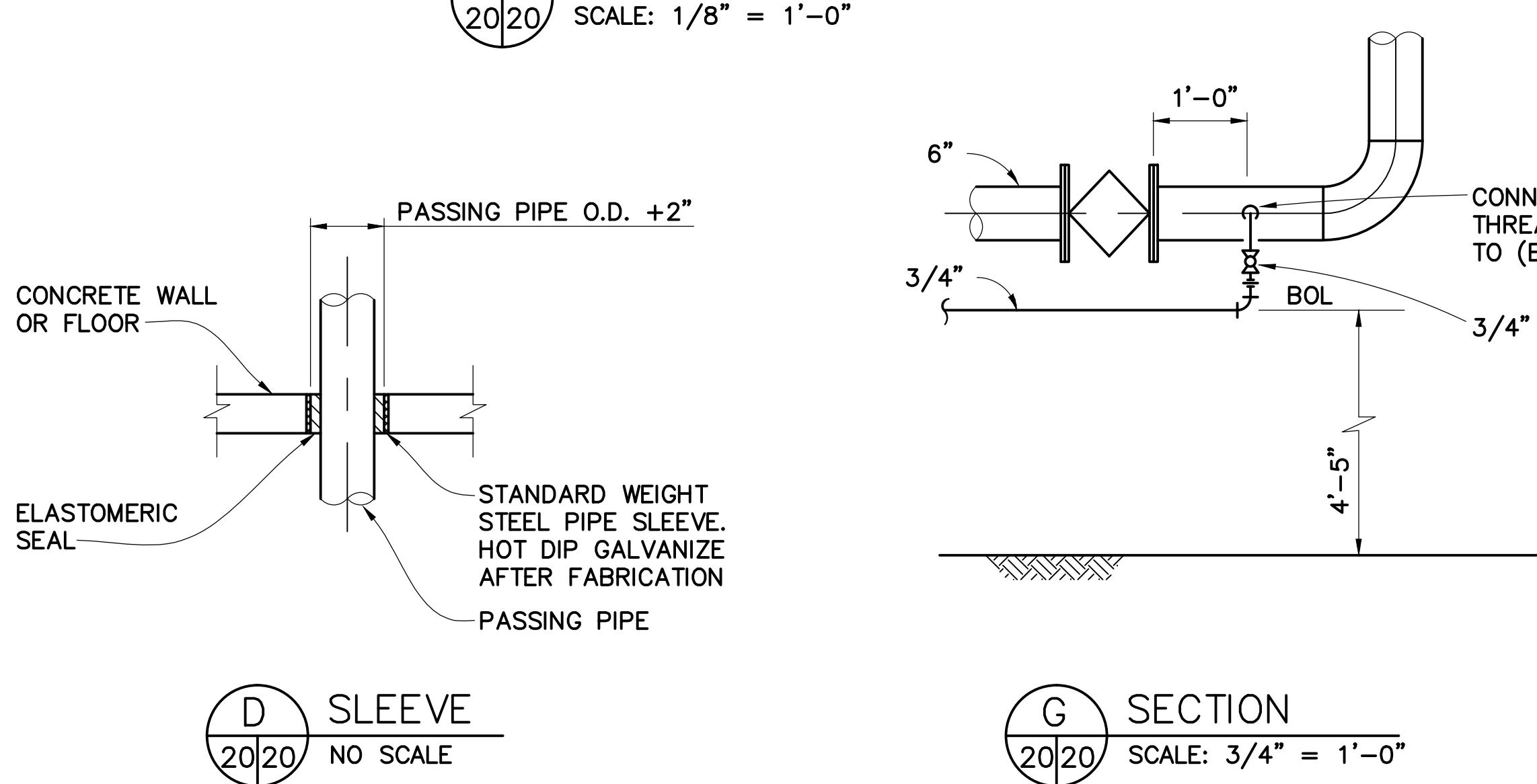
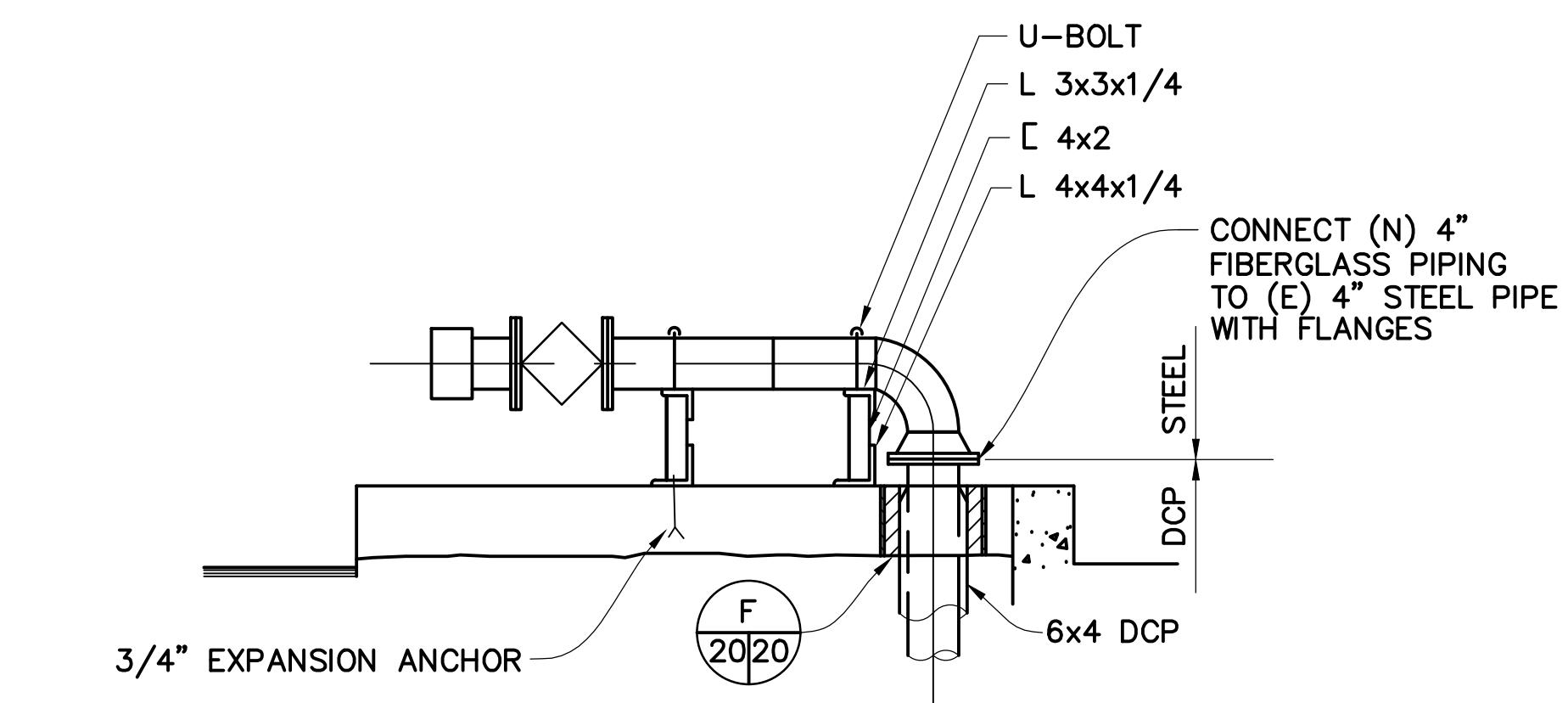
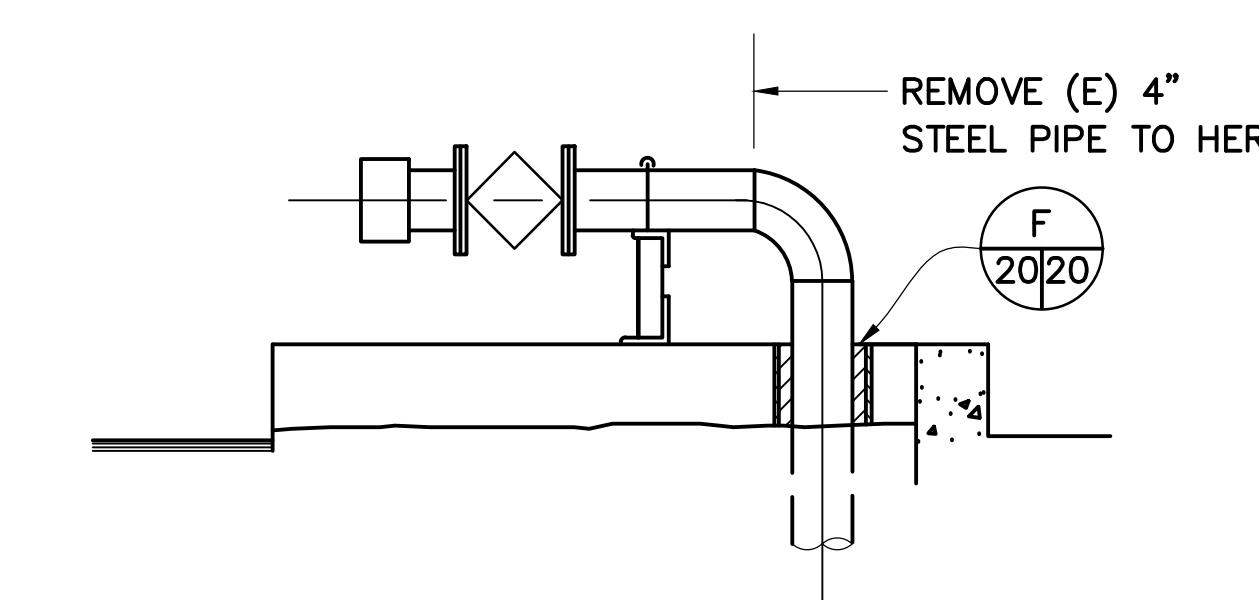
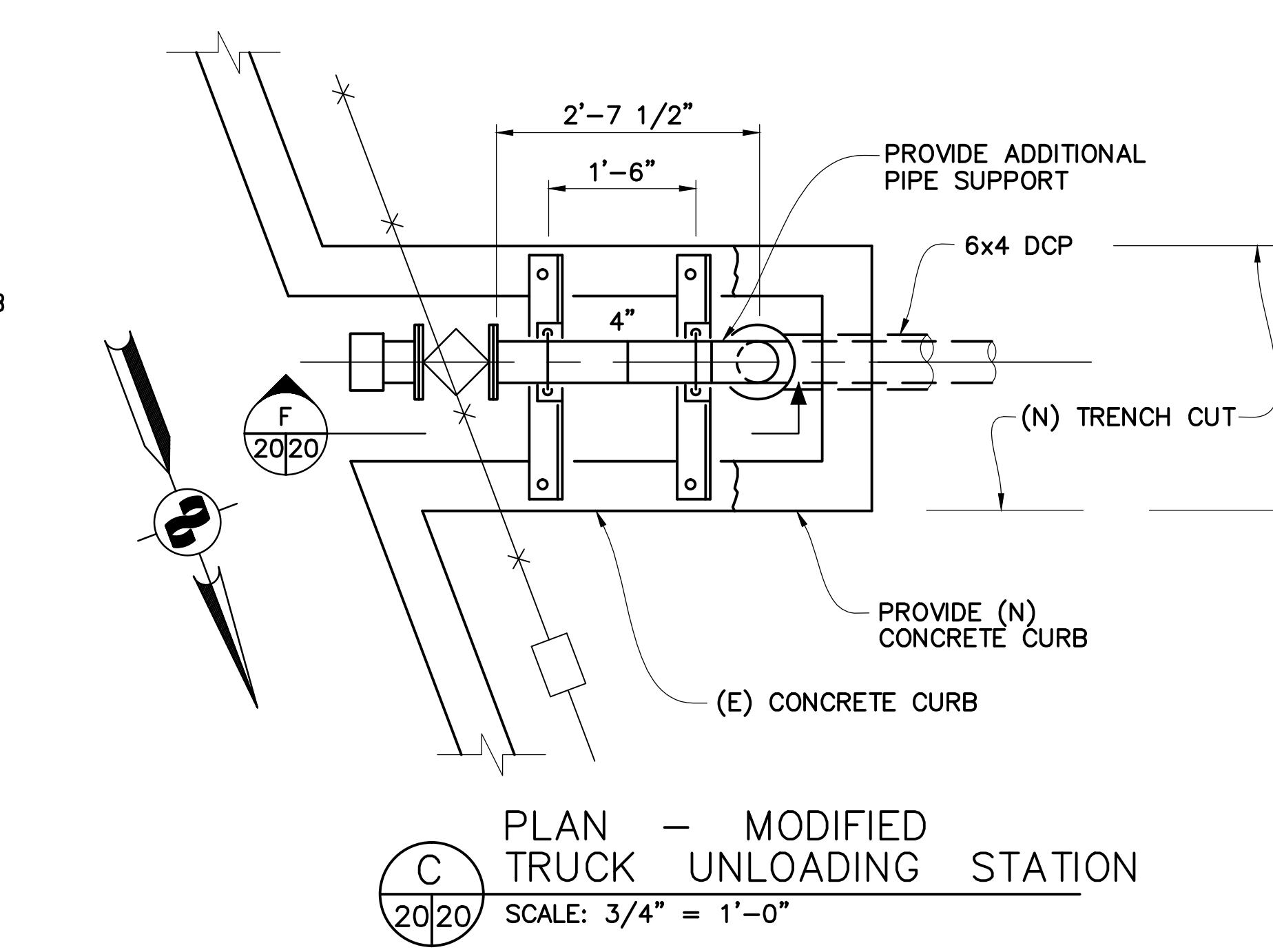
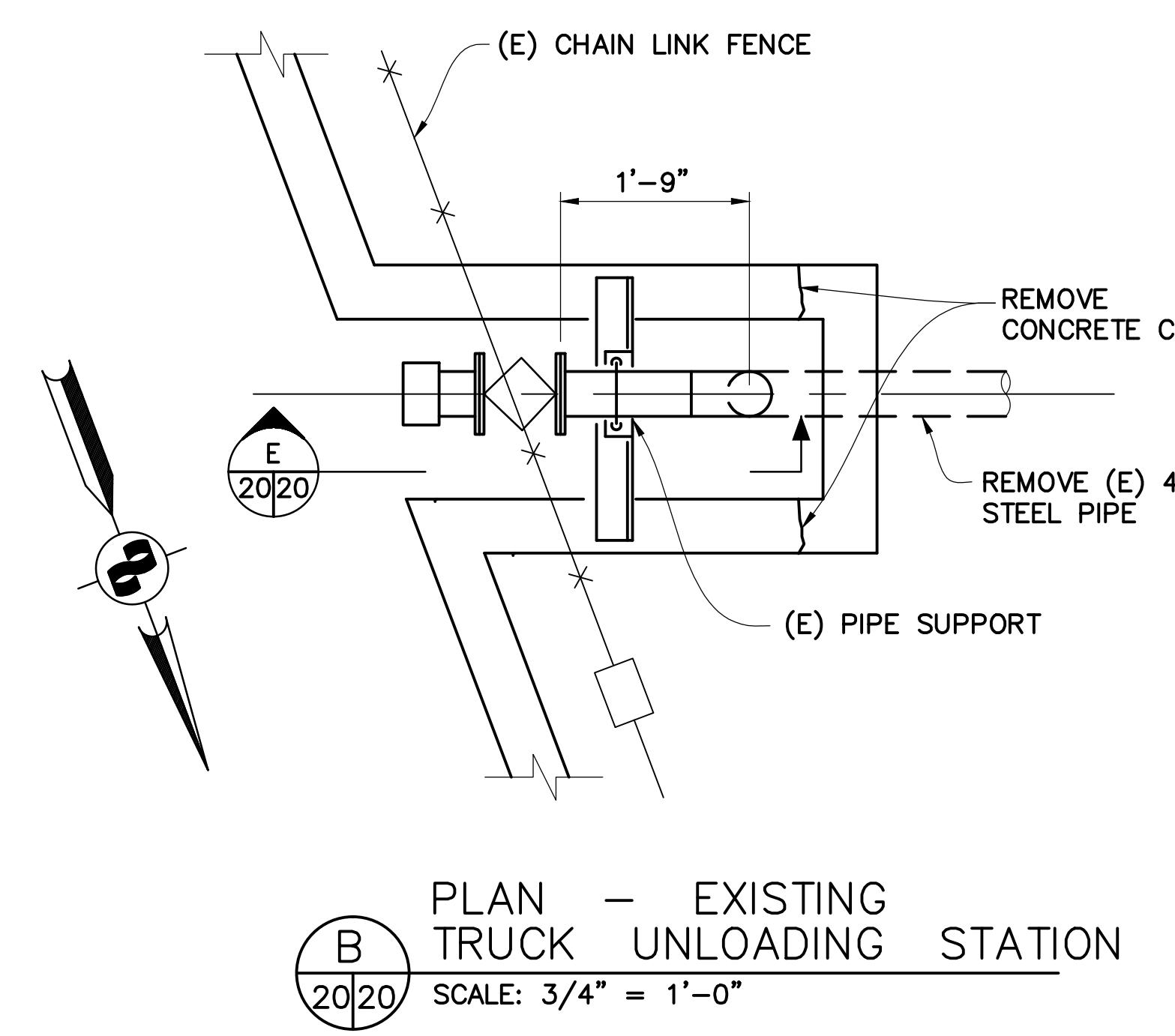
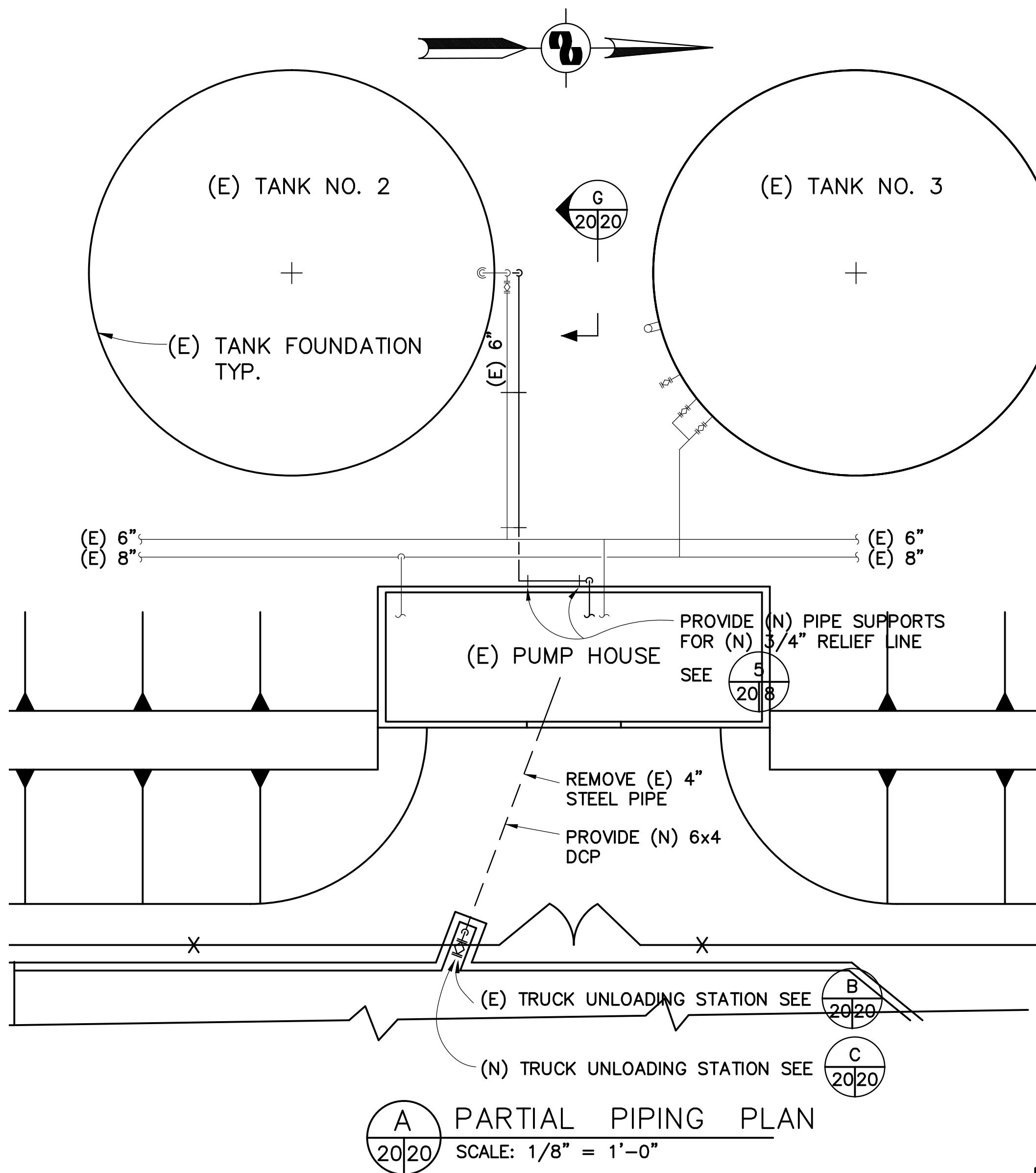
G SECTION
1919 SCALE: $3/8"$ = $1'-0"$



**W I N Z L E R & K
C O N S U L T I N G E N G I**

6'	7'		
			
LL EERS , CA 94104	NO.	REVISIONS	BY DATE
CONTRACT NO.		97-FT-2	SHEET
CAD FILE		97F02P19AB.DWG	19 OF 29
APPROVED BY 			
DISTRICT ENGINEER 2-17-98 <hr/> DATE			

	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT		
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
PUMP ROOM PIPING / EQUIPMENT NEW WORK			
DESIGNED BY	SEF	CHECKED BY	THP
SCALE	3/8"-1'-0"	DATE	2-17-98



1/8"=1'-0" 1' 0' 5' 10' 15'
3/4"=1'-0" 1' 0' 1' 2' 3'

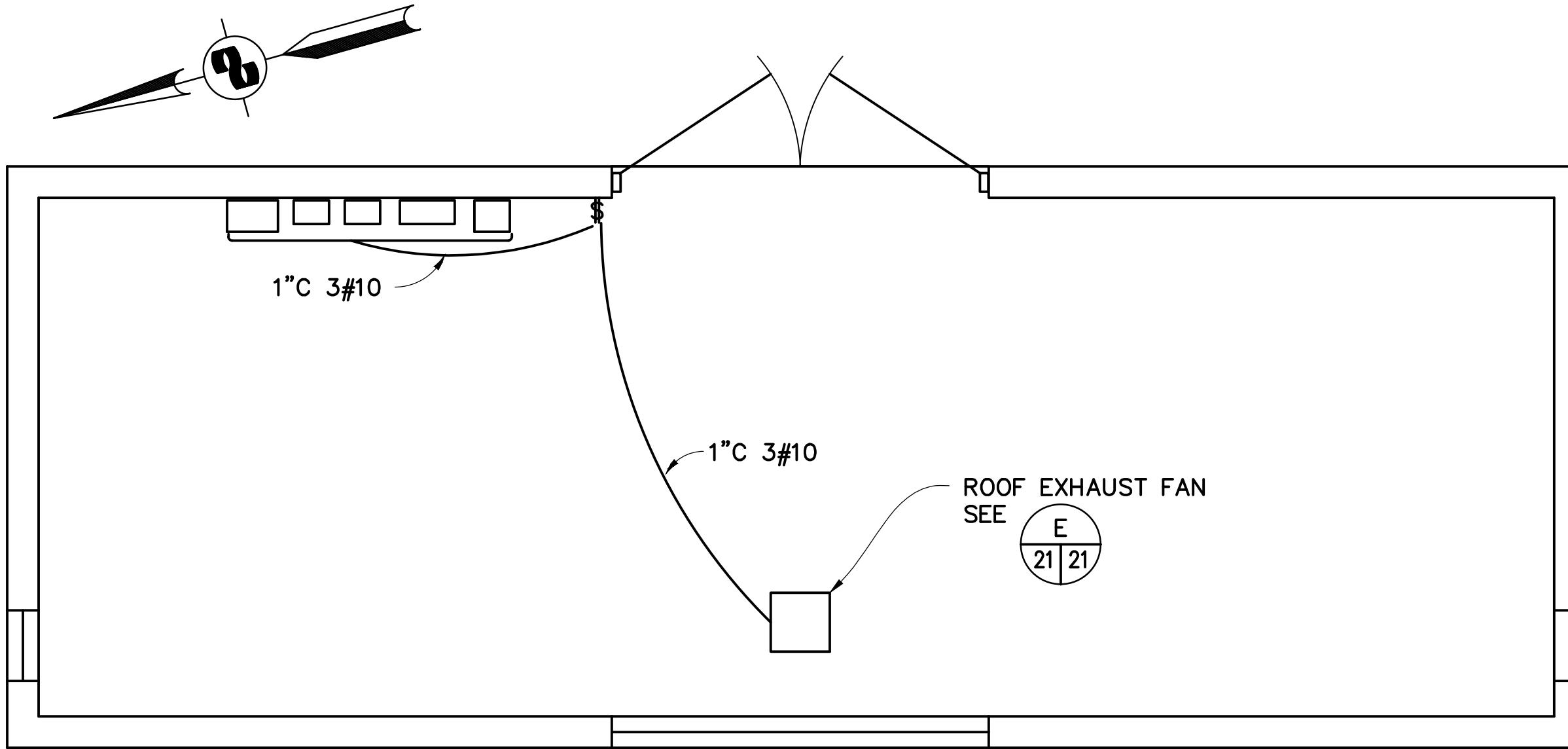
AS-BUILT - NO CHANGE	GM	7/19/01
NO. REVISIONS	BY	DATE
CONTRACT NO. 97-FT-2		SHEET
CAD FILE 97F02P20AB.DWG		20 OF 29

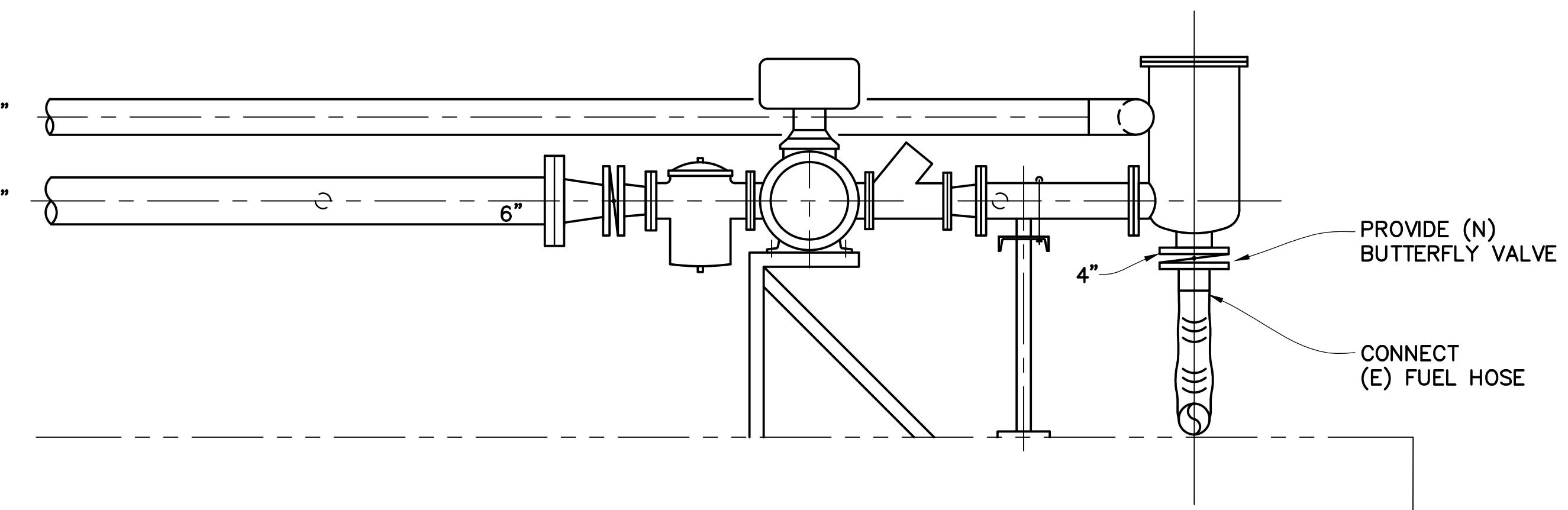
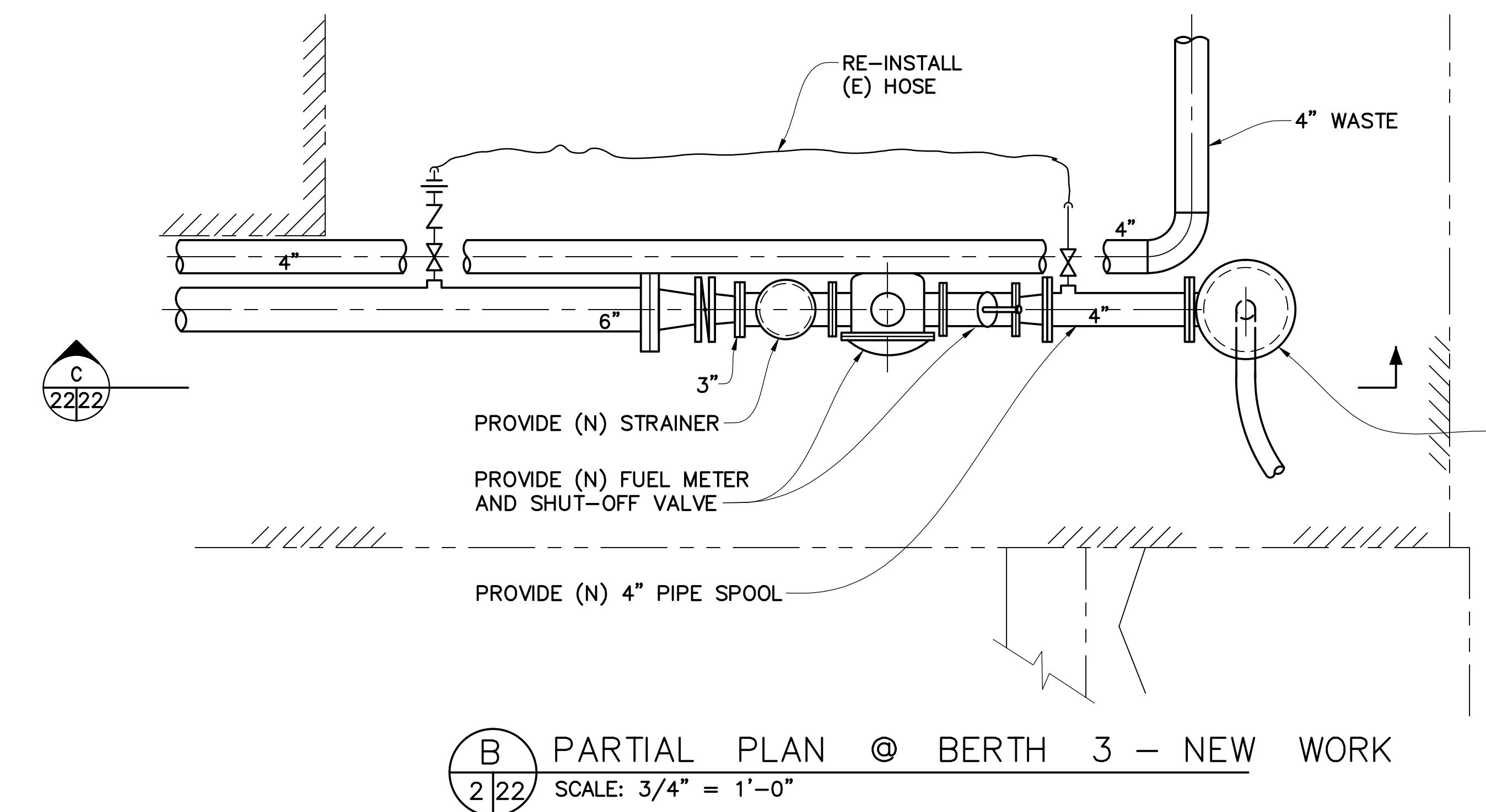
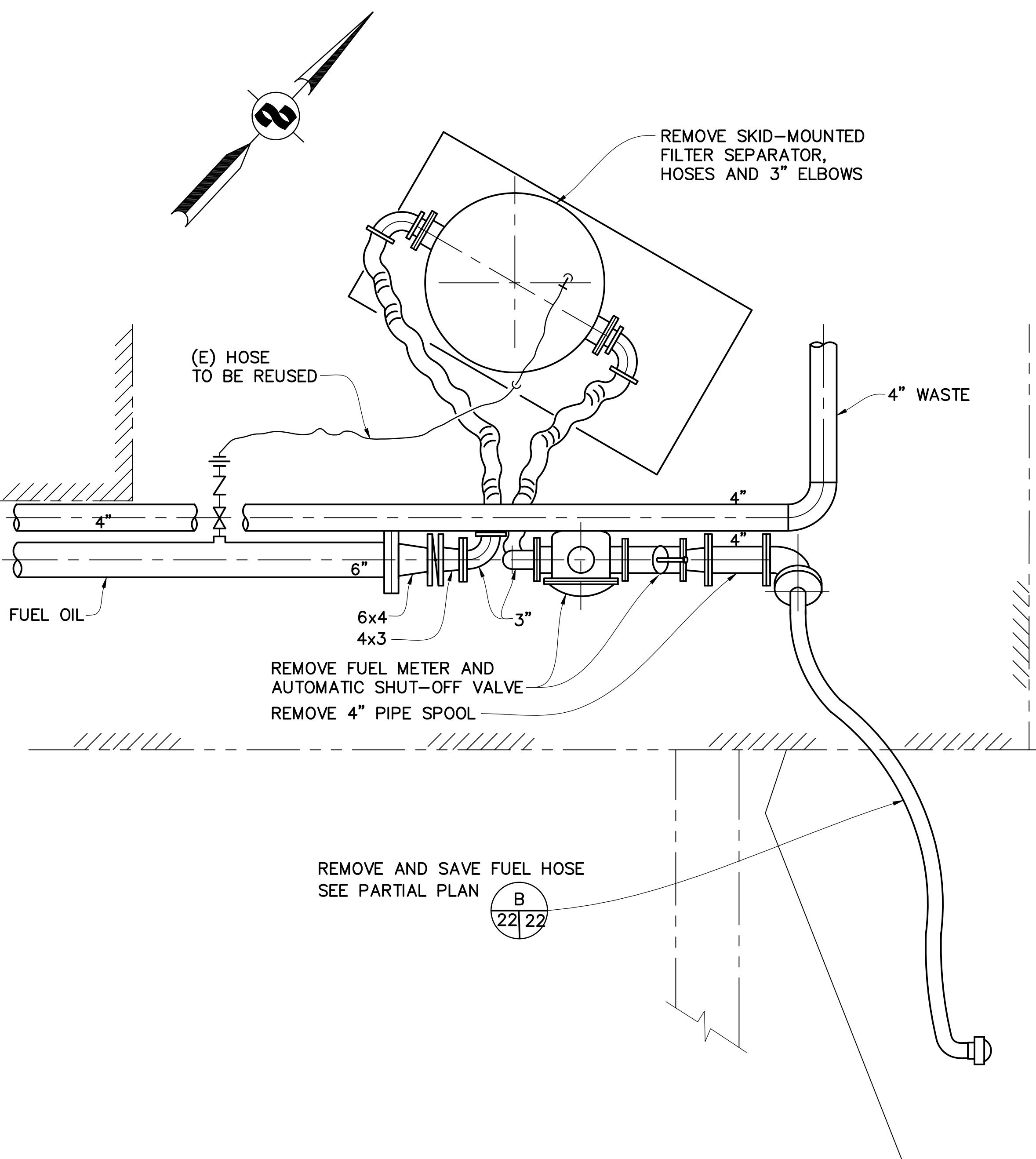
WINZLER & KELLY CONSULTING ENGINEERS
200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

APPROVED BY
REG. PROFESSIONAL ENGINEER
No. 21548
Exp. 9-30-97
CIVIL
STATE OF CALIFORNIA
DISTRICT ENGINEER
2-17-98
DATE

CONTRACT No. 97-FT-2
DATE ACCEPTED 8-3-99
RESIDENT ENGINEER NOEL A. STAMPFLI
REVISIONS BY GLM DATE 19JUL01
AS-BUILT

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS
PUMP ROOM PIPING / EQUIPMENT DETAILS
DESIGNED BY SF CHECKED BY DRAWN BY DK
SCALE AS SHOWN DATE 2-17-98



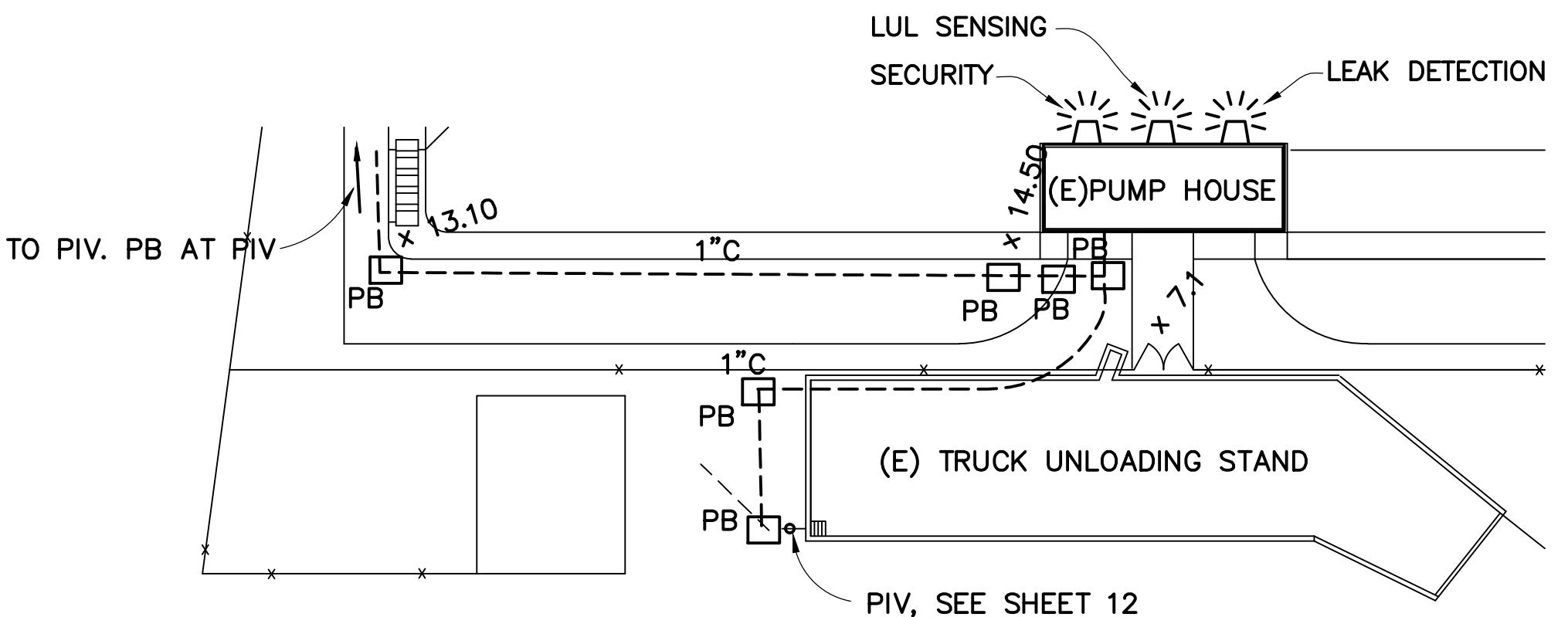


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CONSULTING ENGINEERS
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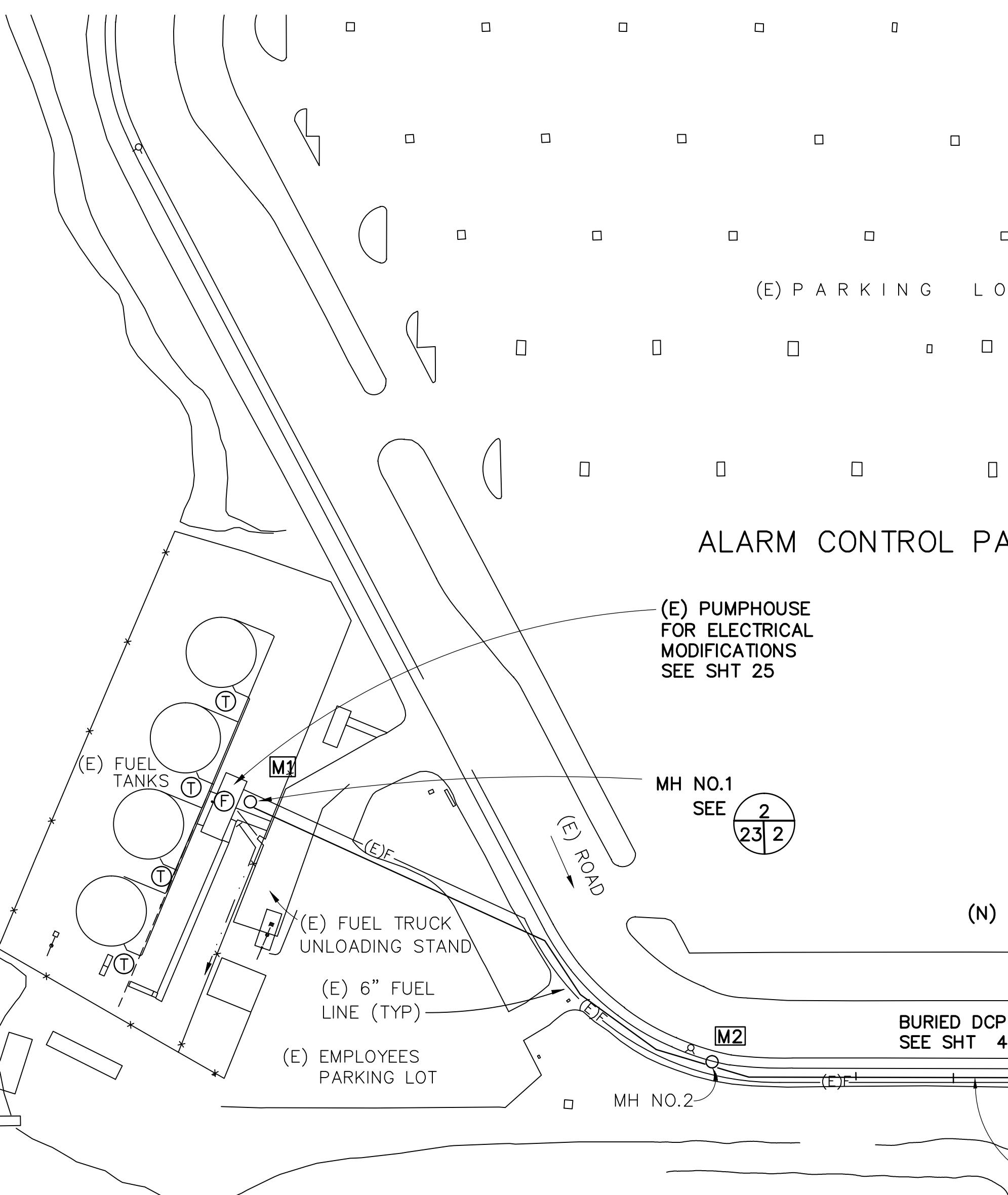
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NO.	REVISIONS	BY	DATE
1		GM	7/19/01
CONTRACT NO. 97-FT-2	SHEET		
CAD FILE 97F02P22AB.DWG	22 OF 29		

APPROVED BY 	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
PIPING DETAILS	
DESIGNED BY SF	CHECKED BY . DRAWN BY DK

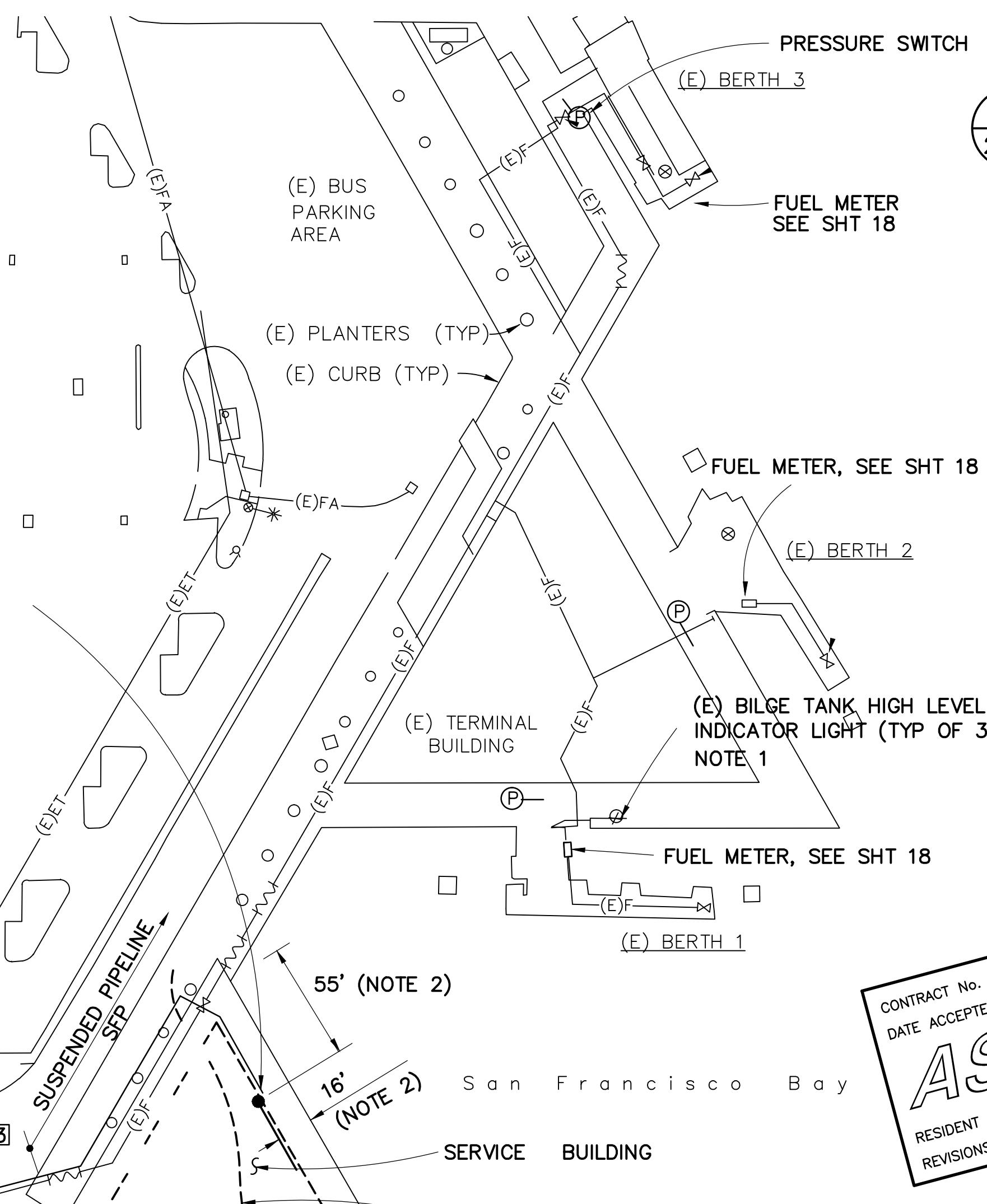
SCALE 3/4"=1'-0" DATE 2-17-98



1 POST INDICATOR ALARM / POWER
2323 1" = 20'-0"



A PLAN
2323 1" = 50'-0"



NOTE:
ALL CONDUITS TO RISE THROUGH FLOOR AT SERVICE BLDG. CAP SPARES.
2 TYPICAL ELECTRICAL TRENCH DETAIL
2323 NOT TO SCALE

ABBREVIATIONS:

EL - ELECTRICAL
(E) - EXISTING
(M) - MECHANICAL
(N) - NEW
PC - PERSONAL COMPUTER WORKSTATION
TYP - TYP

LEGEND:

(F) FLOW SWITCH
M MANHOLE
P PULL BOX
P PRESSURE SWITCH
T TANK LEVEL SENSOR
* EXISTING SECURITY FENCE

NOTES:

1. BILGE TANK HIGH LEVEL INDICATOR LIGHTS HAVE BEEN ABANDONED. DISCONNECT FROM EXISTING CIRCUITY AND USE TO INDICATE FUEL LINE PRESSURIZED.
2. APPROXIMATE LOCATION OF CONDUIT RISERS FOR CENTRAL ALARM, ADA SYSTEMS AND SPARE CONDUITS CORE DRILL 15" REINFORCING CONCRETE SLAB. VERIFY LOCATION WITH DISTRICT REPRESENTATIVE BEFORE BEGINNING INSTALLATION. POWER FOR MASTER CONTROLS IS LOCATED WITHIN 10' OF THIS LOCATION.
3. WHEN TRENCHING IN CONCRETE/ASPHALT AREAS, REPLACE WITH IDENTICAL MATERIAL AND FINISH. MINIMUM THICKNESS OF REPAIR TO MATCH ABOVE SECTION.

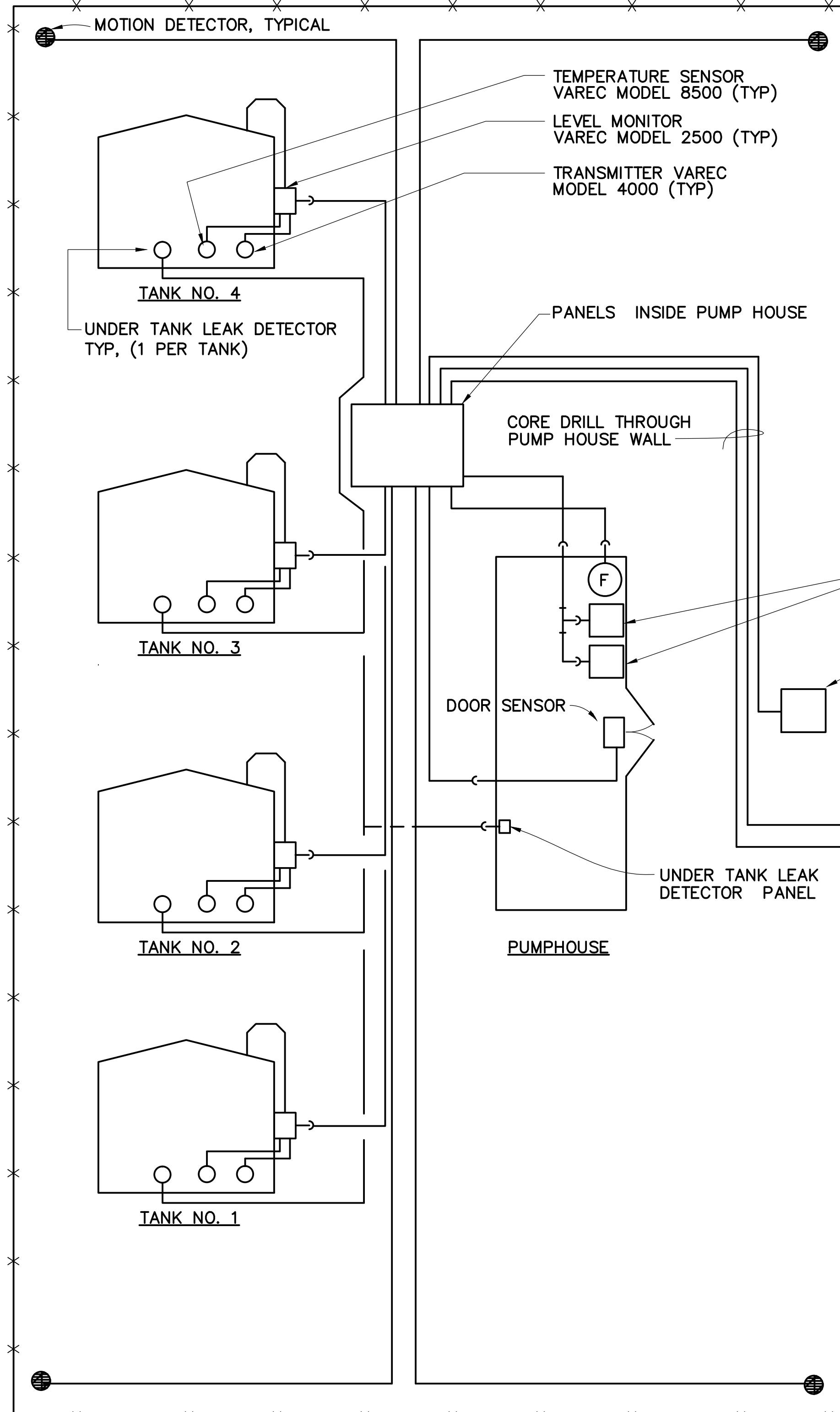
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AS-BUILT	GM	7/19/01	
NO.	REVISIONS	BY	DATE
CONTRACT NO. 97-FT-2	SHEET		
CAD FILE 97F02P23AB.DWG	23 OF 29		

APPROVED BY	
DISTRICT ENGINEER	2-17-98
DESIGNED BY DK3	CHECKED BY MDK
DRAWN BY PVB	DATE
SCALE AS SHOWN	DATE 2-17-98

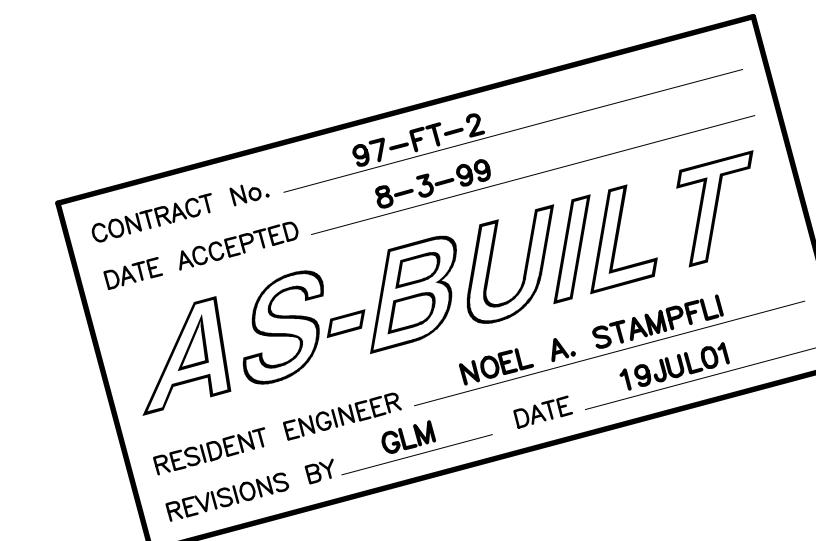
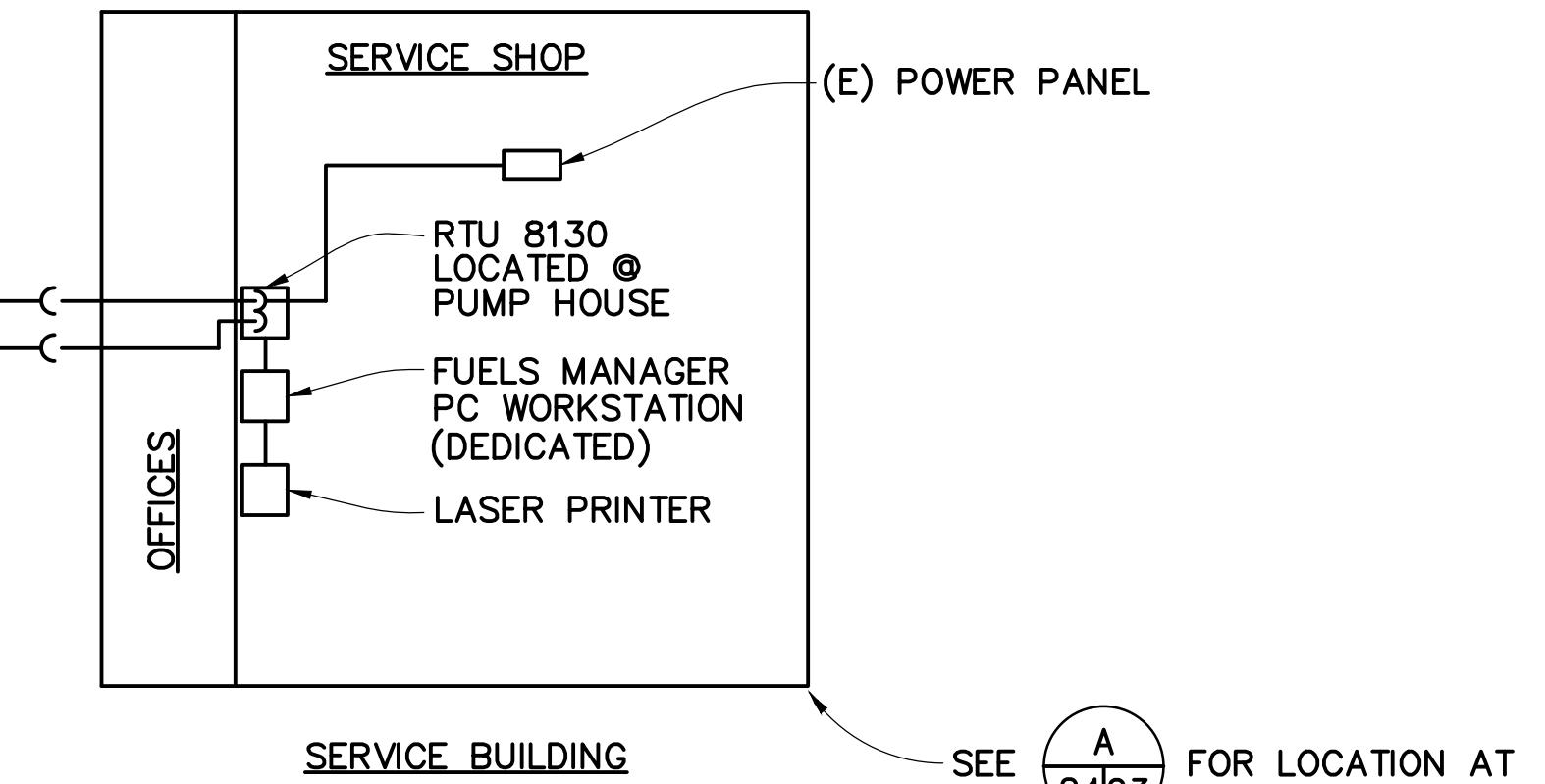
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS
ELECTRICAL - SITE PLAN

POINTS LIST - DATA ACQUISITION & ALARM



POINT #	POINT LOCATION	SENSOR TYPE	FUNCTION	NOTE
1	TANK NO. 1	LEVEL MONITOR	INVENTORY CONTROL, ALARM HIGH/HIGH LEVEL (HHL), STOP PUMPS ON HHL	
2	TANK NO. 2	LEVEL MONITOR	SAME AS TANK NO. 1	
3	3	TEMPERATURE SENSOR	TEMPERATURE INDICATION	
4	4	LEAK DETECTOR	LEAK DETECTION BELOW TANK	
5	1	MOTION DETECTOR		
6	2	PROXIMITY		
7	3			
8	4			
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34				
	TANKS			
	TANK FENCE GATE			
	PUMP ROOM DOOR			
	NOT ASSIGNED			

POINT #	POINT LOCATION	SENSOR TYPE	FUNCTION	NOTE
35				
36				
37				
38				
39				
40				
41				
	TANK MONITOR		STOP PUMP ON TANK HHL	
	PROBE		LEAK ALARM	
	PROBE		LEAK ALARM	
	PROBE		LEAK ALARM	

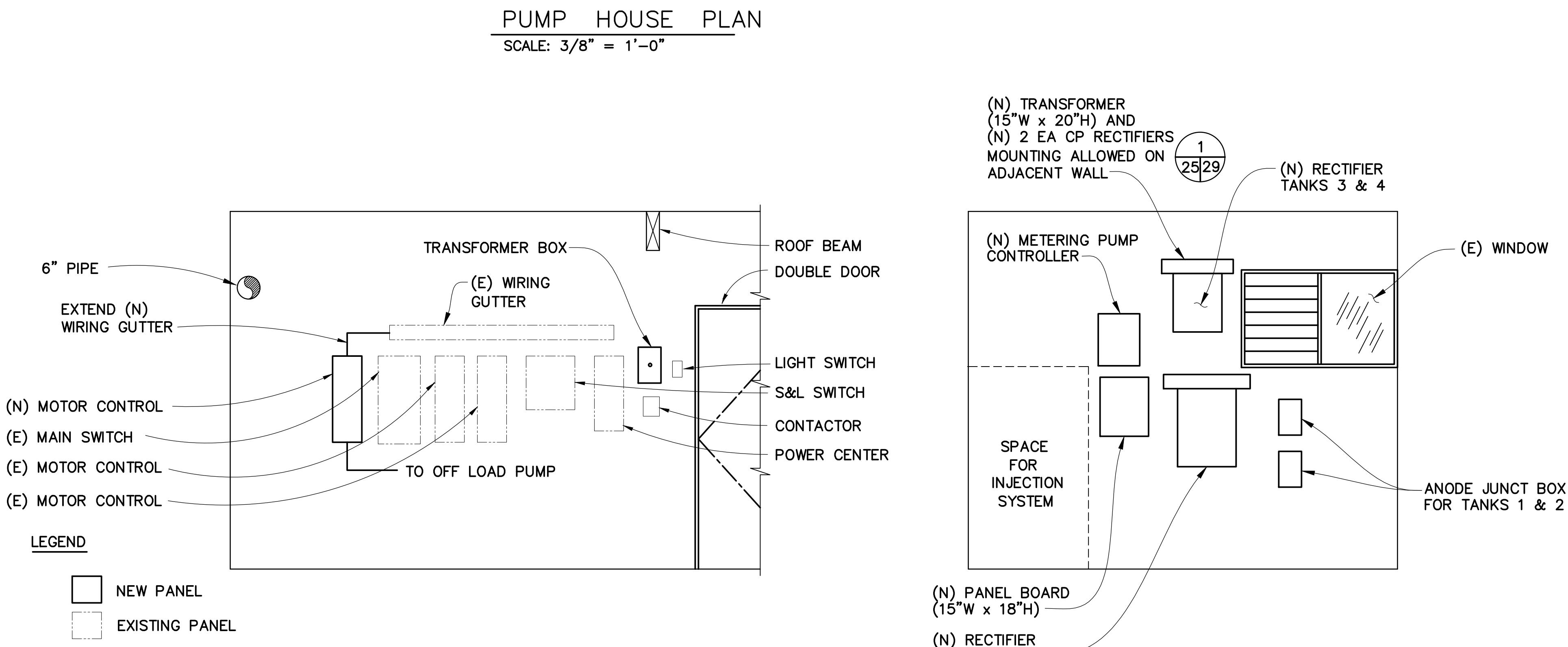
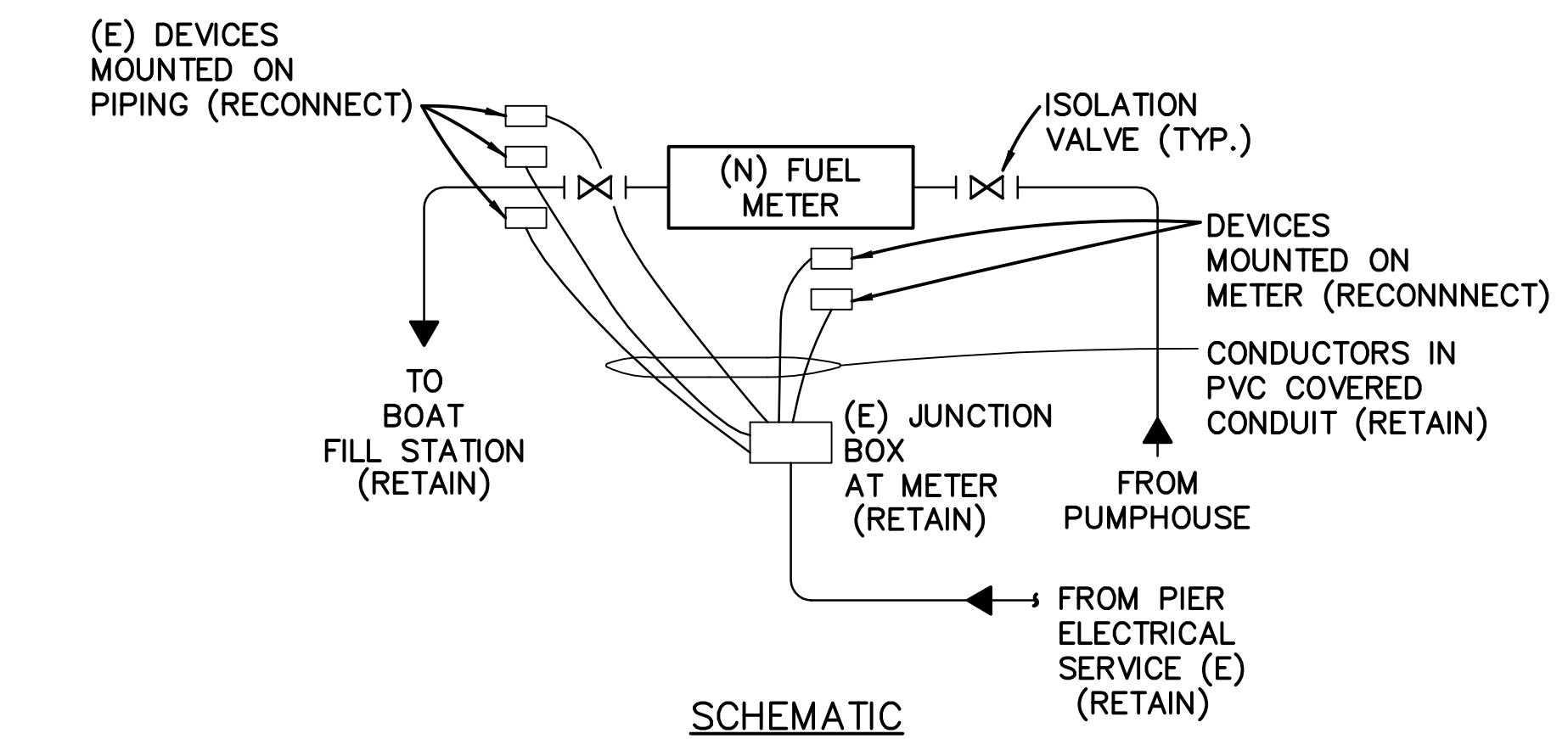
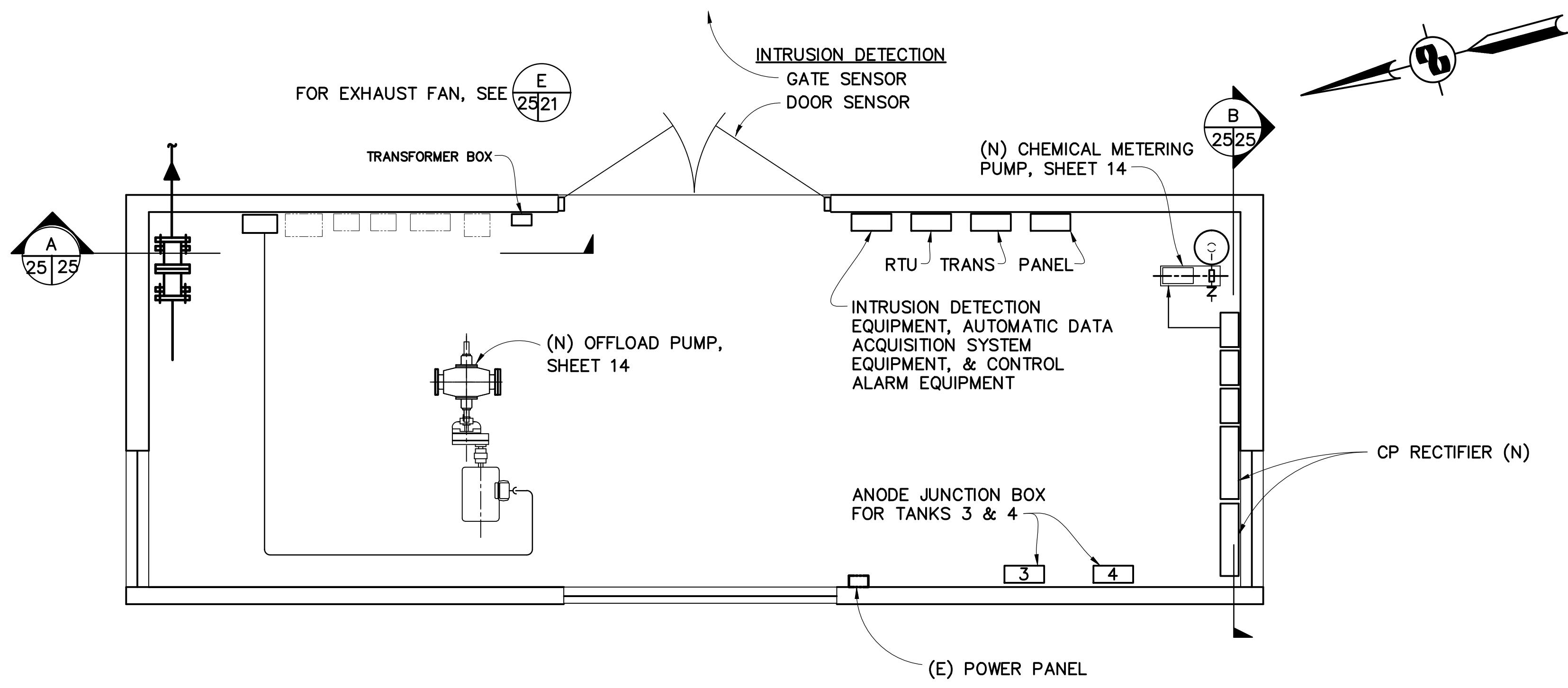


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AS-BUILT	GM	7/19/01	
NO.	REVISIONS	BY	DATE
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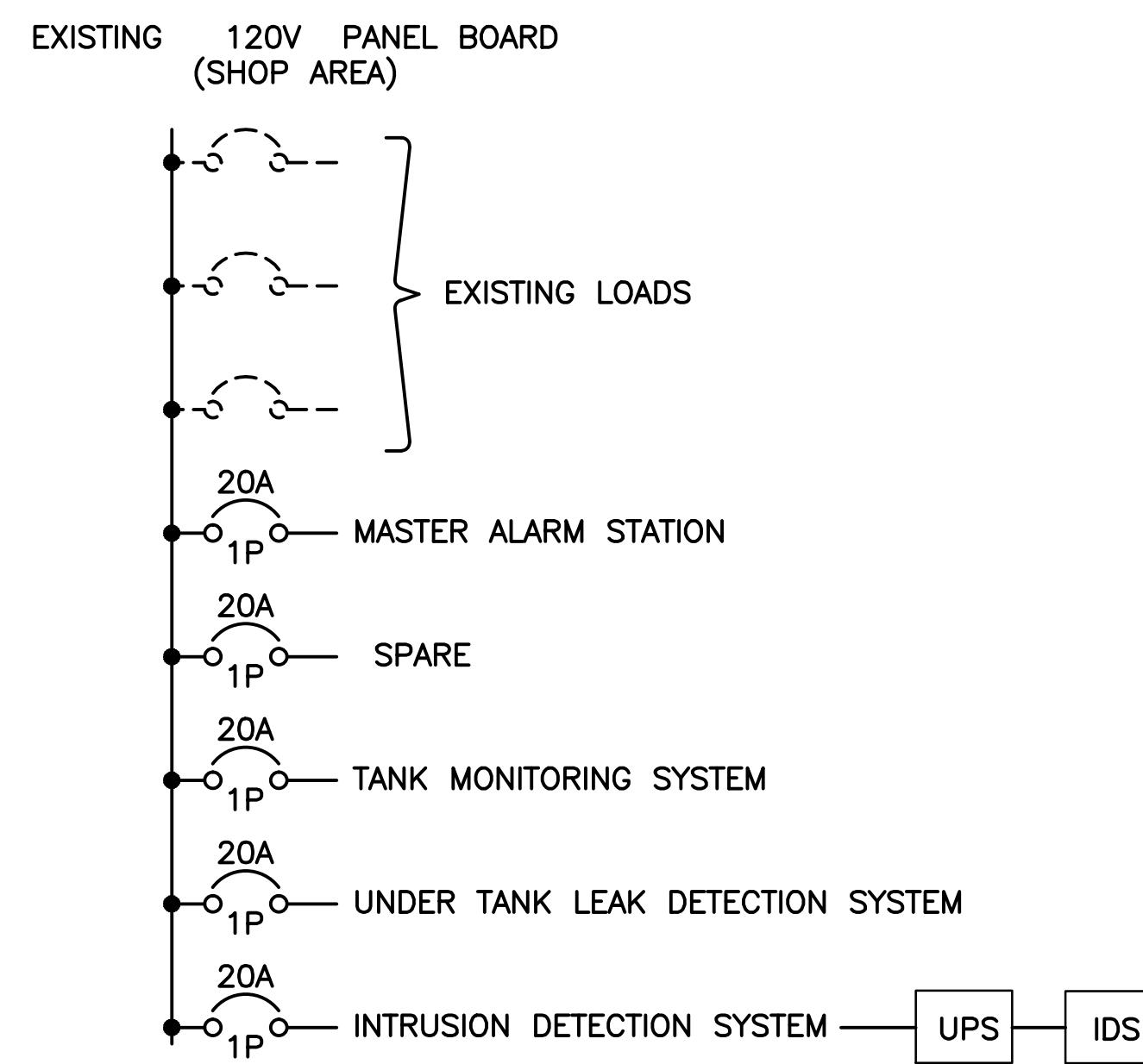
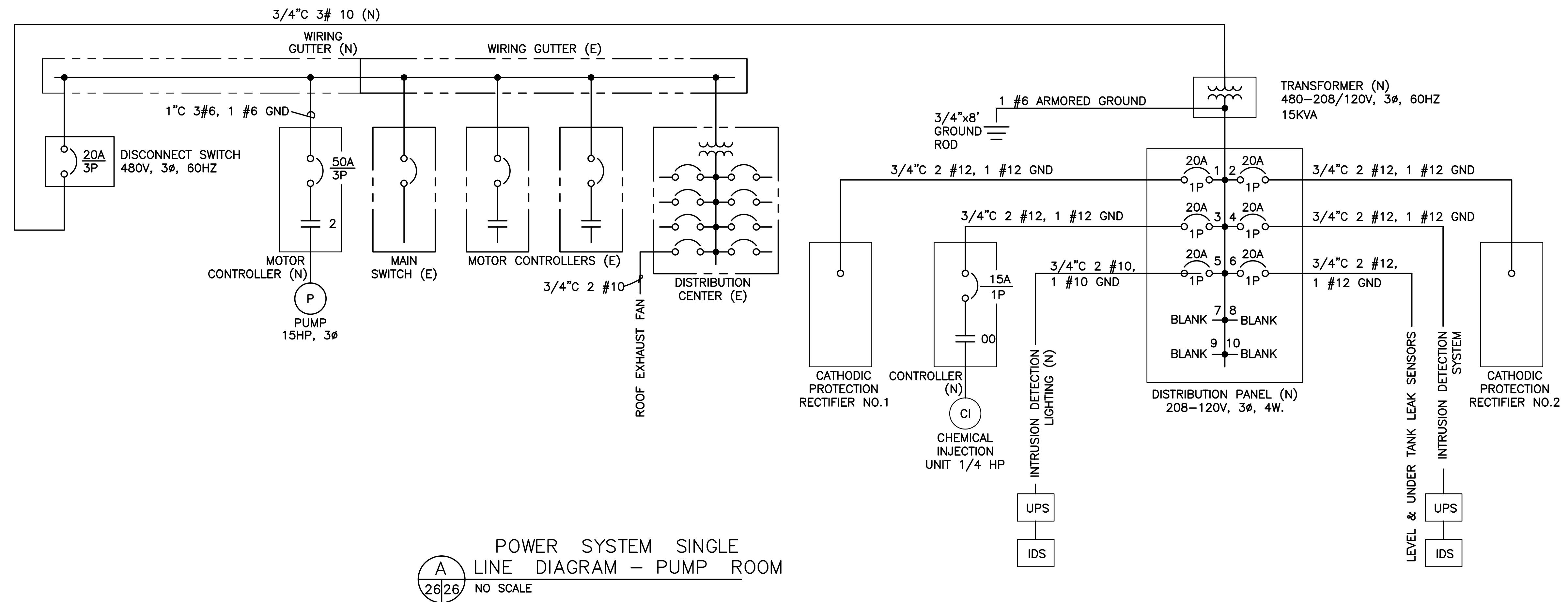
APPROVED BY	GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT		
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
DATA ACQUISITION & ALARM			
DESIGNED BY DK3	CHECKED BY MDK	DRAWN BY PVB	
SCALE NTS	DATE 2-17-98	DATE	

REGISTERED PROFESSIONAL ENGINEER
No. 21548
Exp. 9-30-97
CIVIL
STATE OF CALIFORNIA
DISTRICT ENGINEER
2-17-98
DATE
CAD FILE 97F02P24AB.DWG
24 OF 29



CONTRACT NO. 97-FT-2
DATE ACCEPTED 8-3-99
AS-BUILT
NOEL A. STAMPFLI
RESIDENT ENGINEER GLM DATE 19JUL01
REVISIONS BY GLM

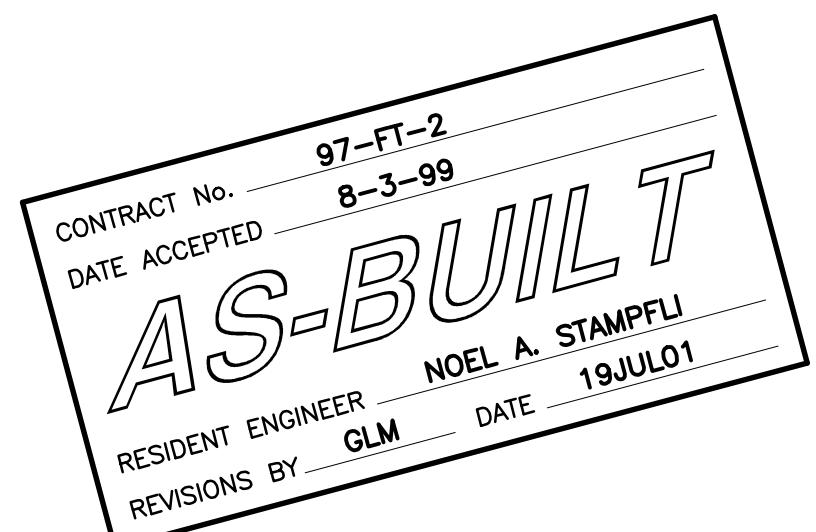
APPROVED BY			
<i>John C. Giacalone</i>			
REGISTERED PROFESSIONAL ENGINEER No. 21548 Exp. 9-30-97			
CIVIL STATE OF CALIFORNIA			
DISTRICT ENGINEER			
2-17-98			
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT			
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
ELECTRICAL DETAILS SHEET 1			
DESIGNED BY DK3	CHECKED BY MDK	DRAWN BY	
SCALE AS-SHOWN	DATE	2-17-98	

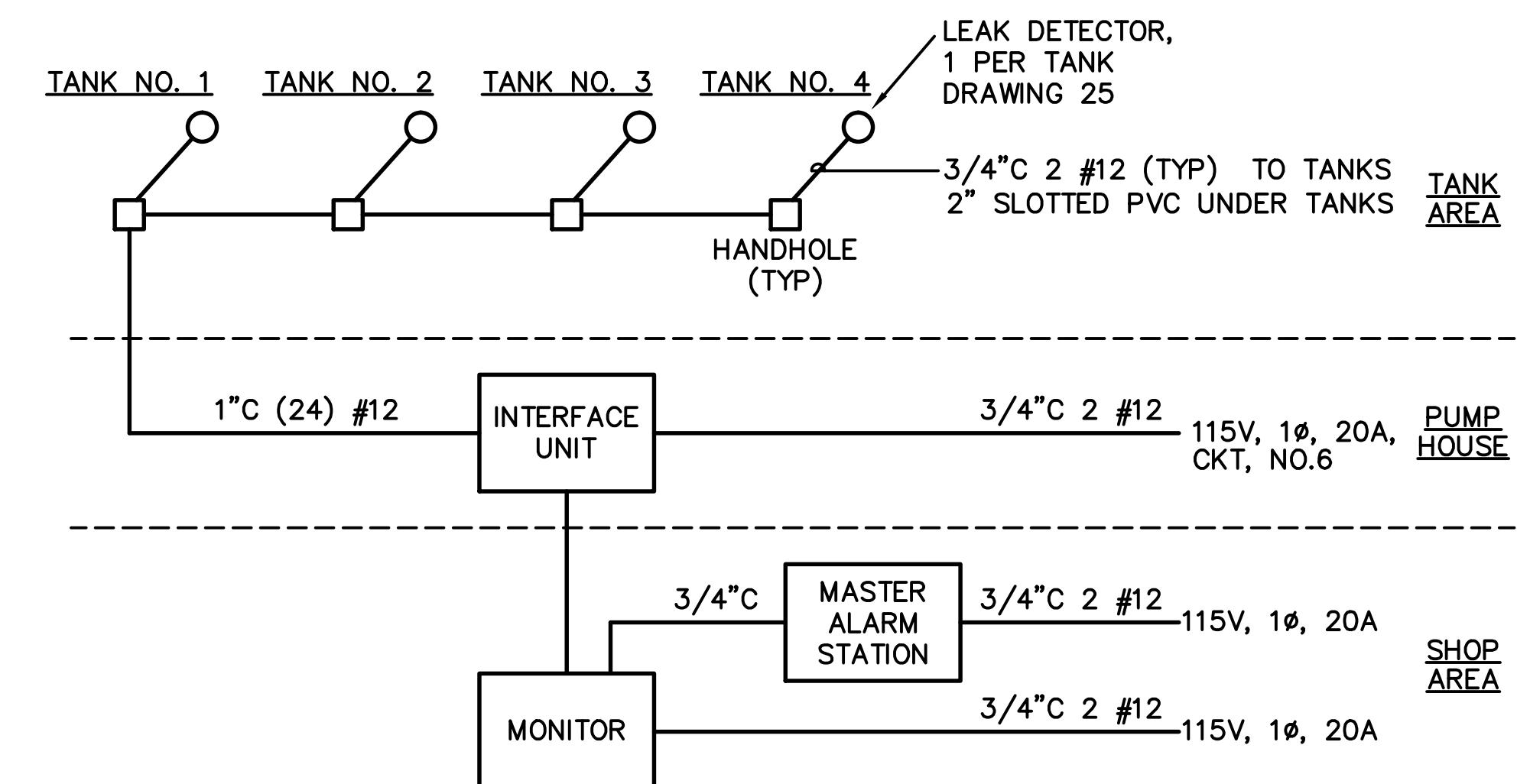


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200 PINE STREET SUITE # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

AS-BUILT - NO CHANGE				GM	7/19/01
NO.	REVISIONS	BY	DATE		
CONTRACT NO. 97-FT-2		SHEET		2-17-98	
CAD FILE 97F02P26AB.DWG		26 OF 29		DATE	

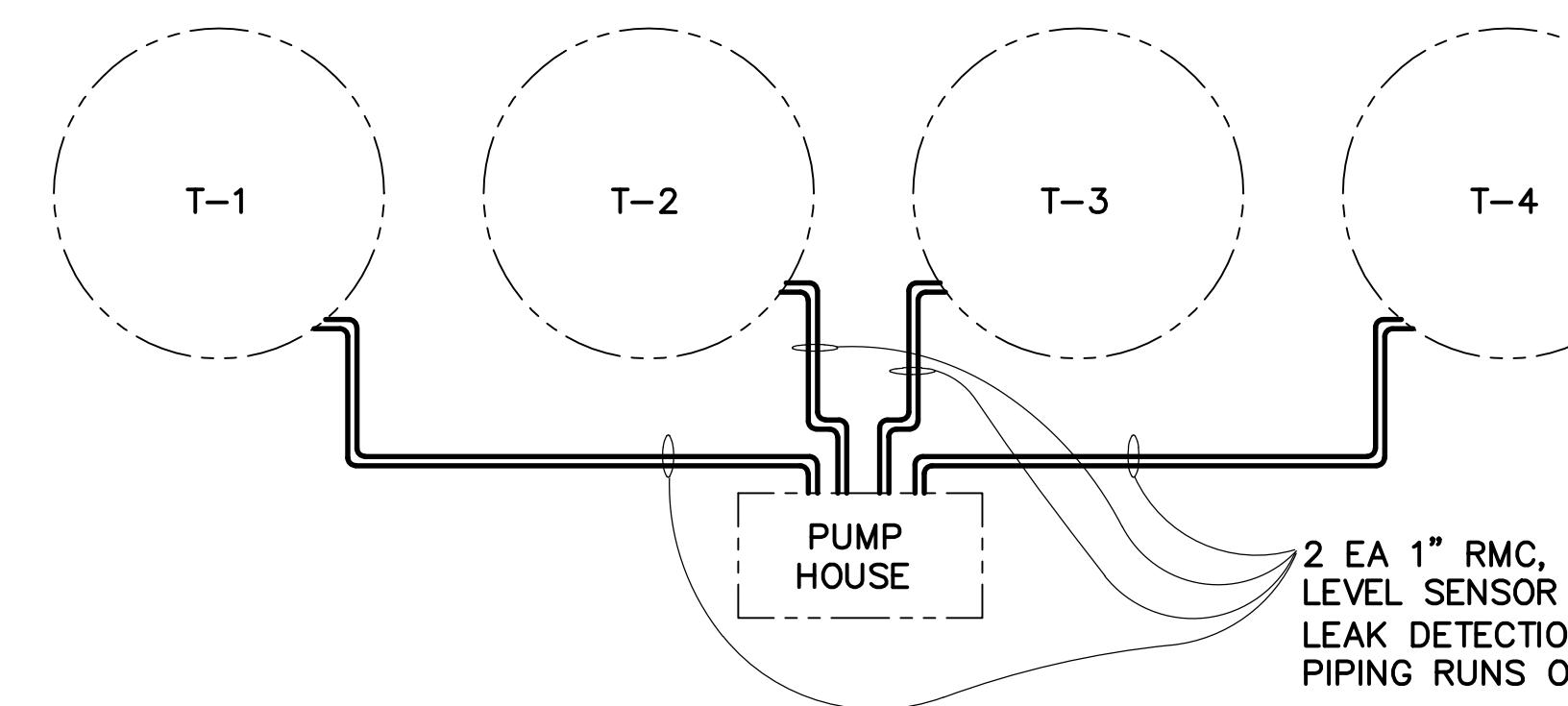
APPROVED BY 		GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT	
		LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS	
POWER SYSTEM MODIFICATION SHEET 1			
DESIGNED BY DK	CHECKED BY MDK	DRAWN BY PJS	SCALE AS SHOWN
DATE	DATE	DATE	DATE





TANK LEAK DETECTION SYSTEM
BLOCK WIRING DIAGRAM

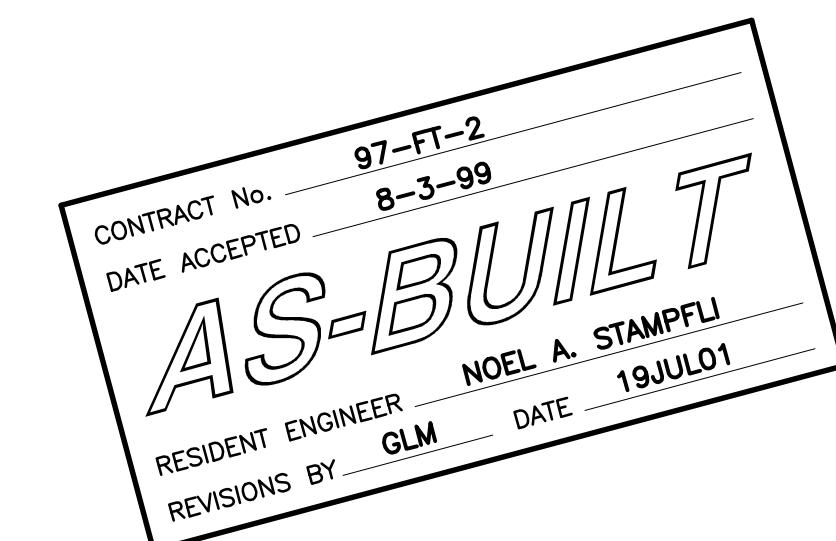
C
27/27
NO SCALE



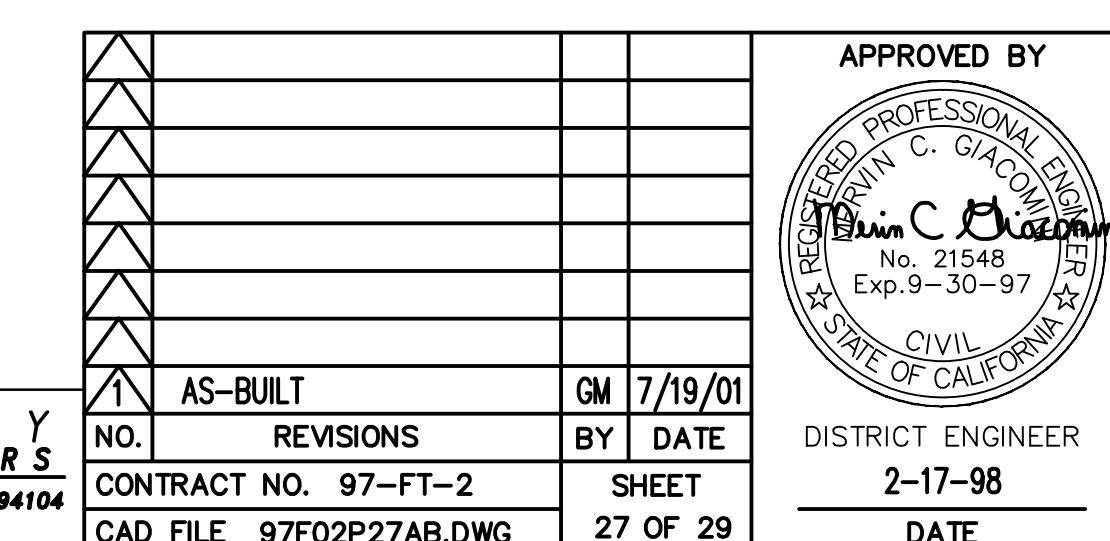
NOTE: LIQUID LEVEL PROBE IS THROUGH THE TOP OF TANK

TANK LIQUID LEVEL & UNDER TANK
LEAK DETECTION CONDUITS

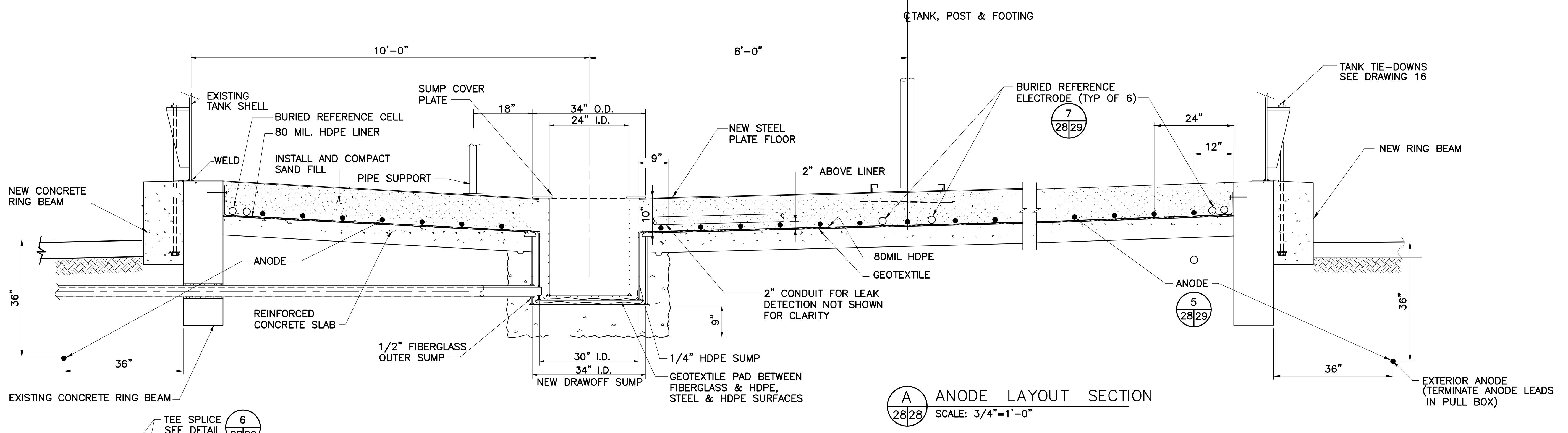
D
27/27
NO SCALE



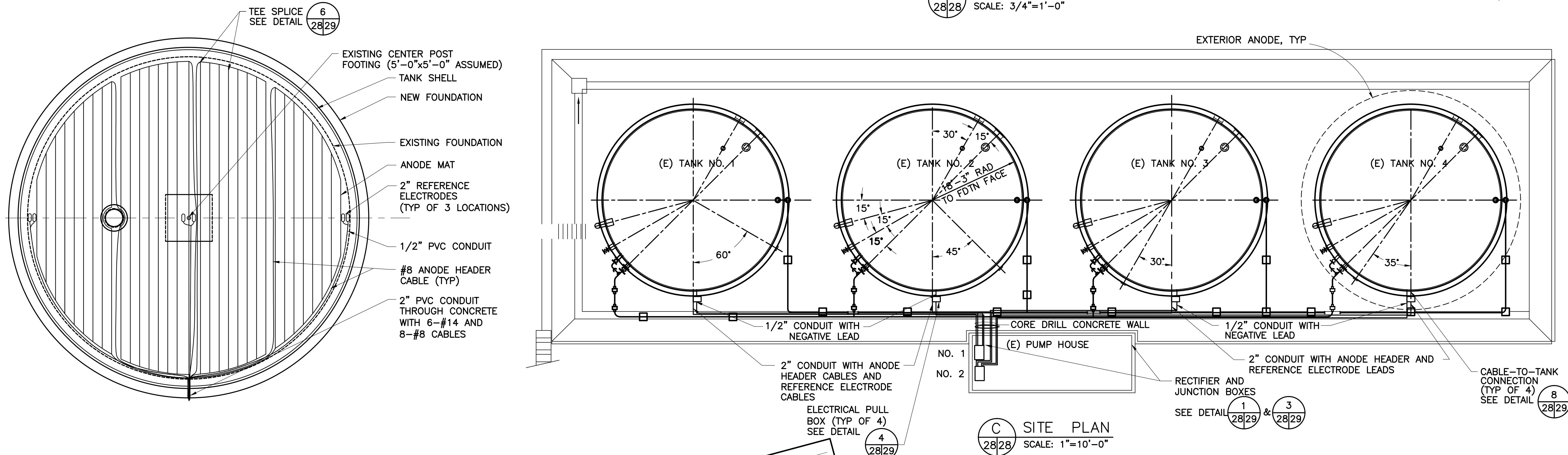
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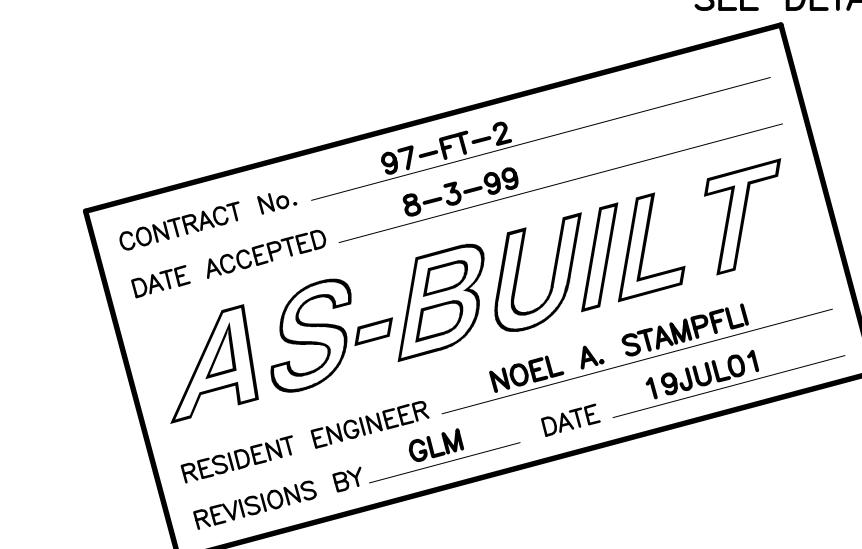
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS
SYSTEMS BLOCK WIRING DIAGRAMS SHEET 1
DESIGNED BY DK CHECKED BY MDK DRAWN BY PJS
SCALE AS SHOWN DATE 2-17-98



A ANODE LAYOUT SECTION
28/28 SCALE: 3/4"=1'-0"

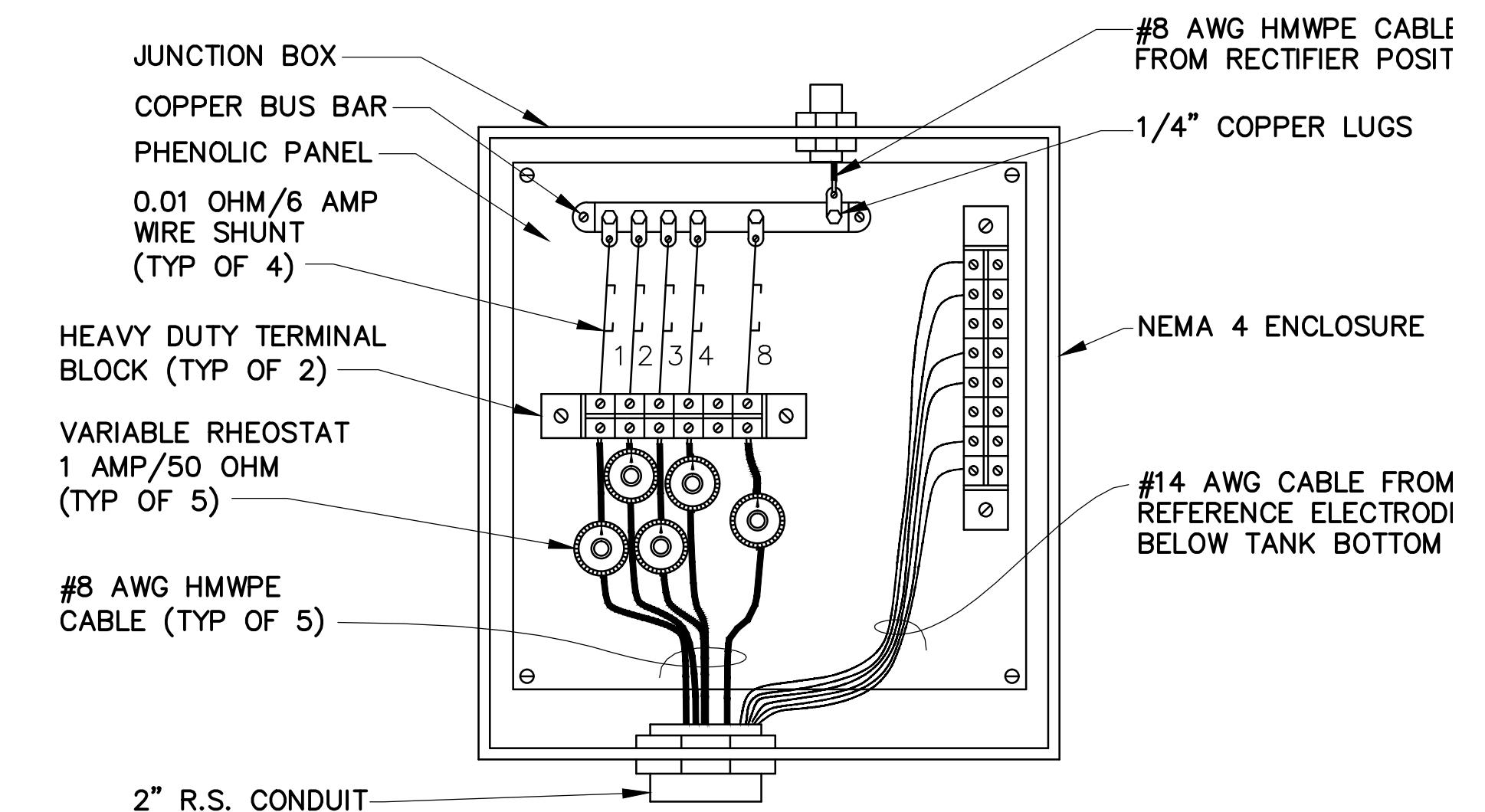
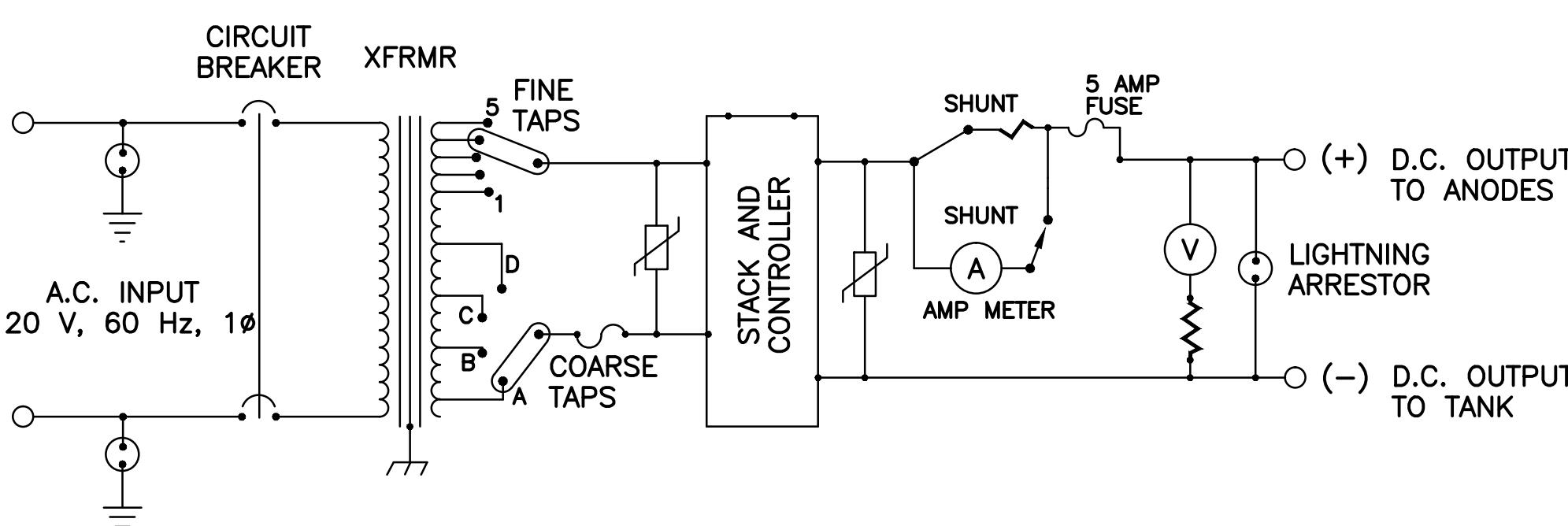
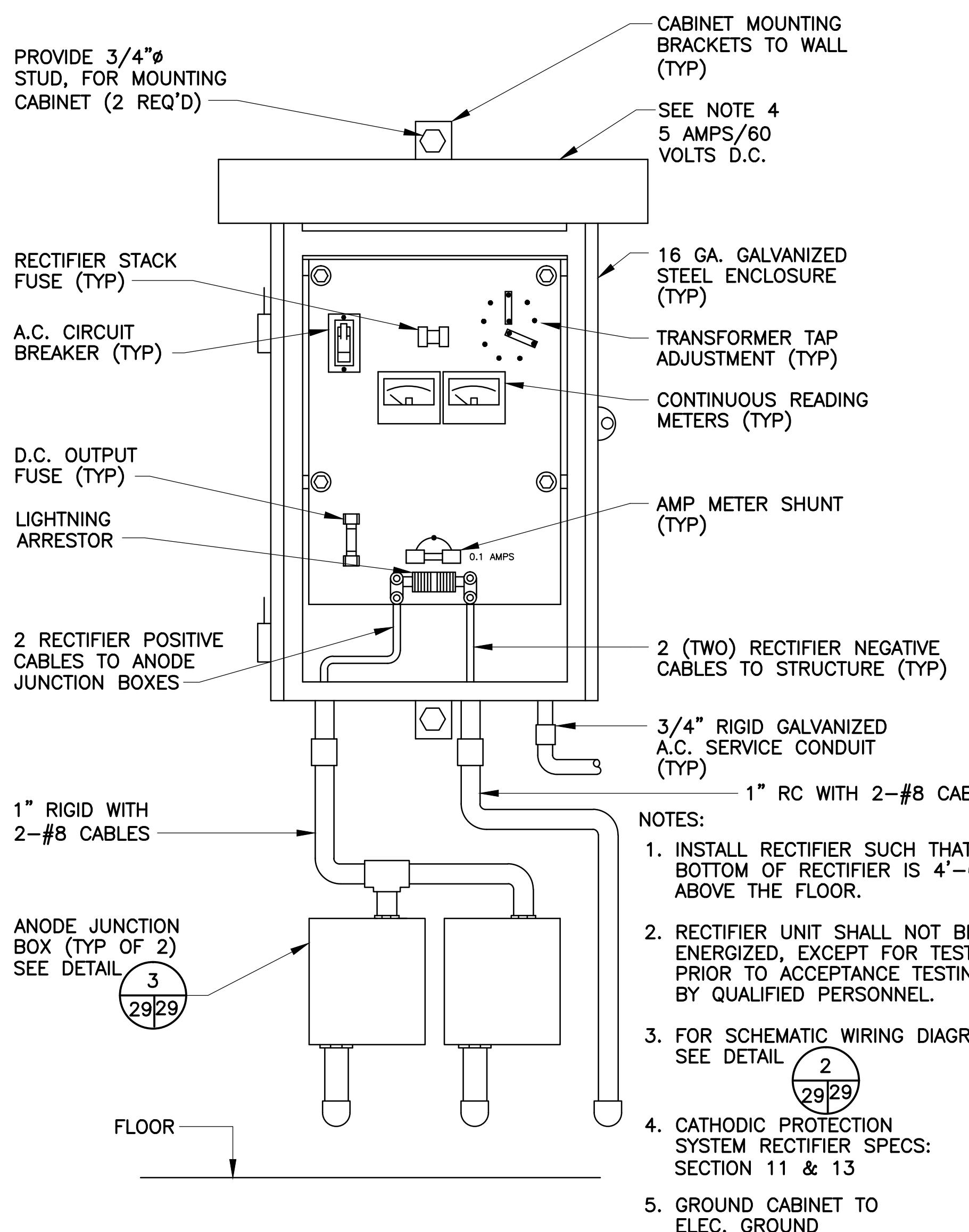


C SITE PLAN
28/28 SCALE: 1"=10'-0"



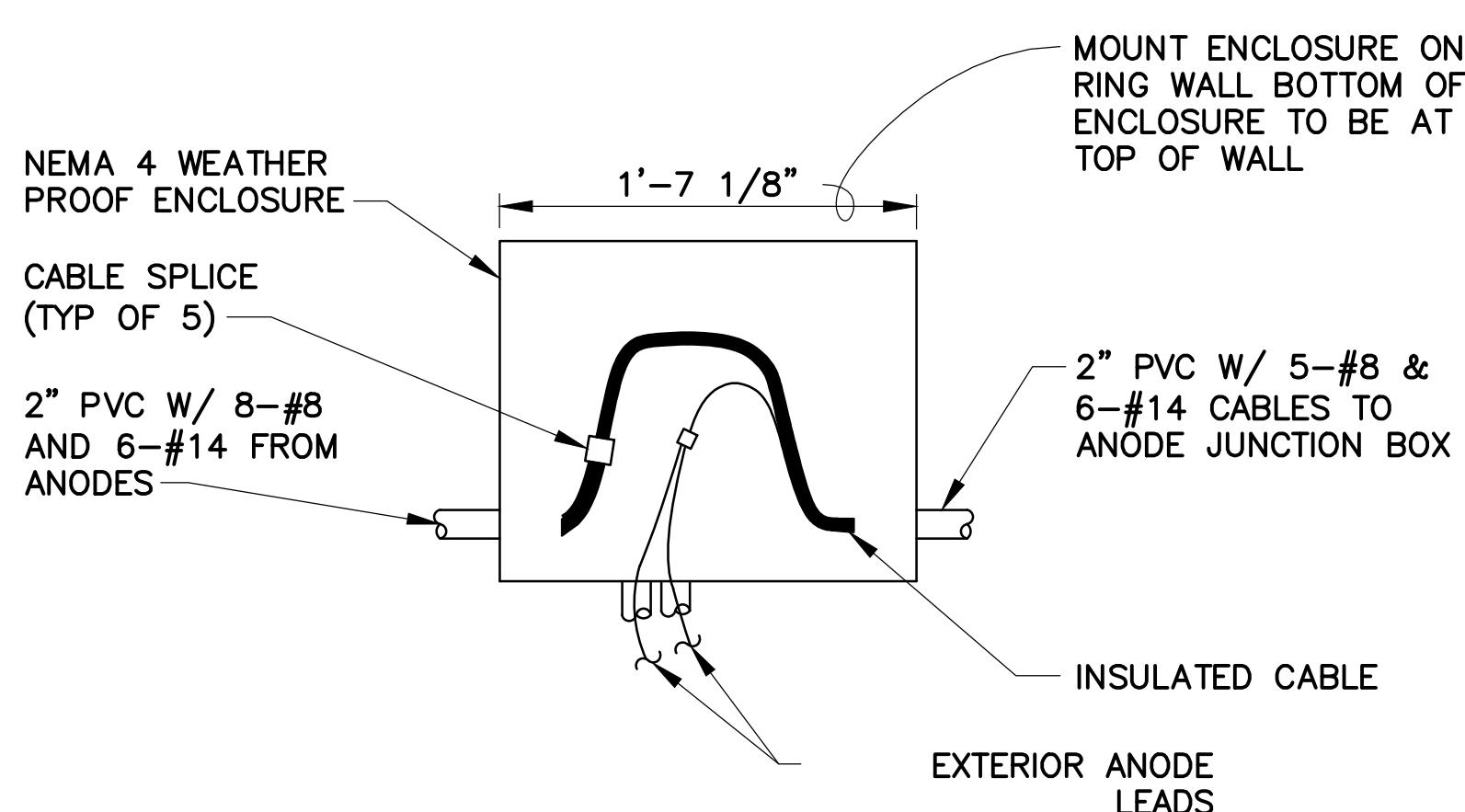
ConCeCo
Engineering, Inc.
5167 CLAYTON ROAD, SUITE F
CONCORD, CA 94521
PHONE: (510) 682-8780 FAX: (510) 682-8780
WINZLER & KELLY
CONSULTING ENGINEERS
200 PIPE STREET, SUIT # 600 SAN FRANCISCO, CA 94104
(415) 283-4970 FAX (415) 283-4980

APPROVED BY			
REGISTERED PROFESSIONAL ENGINEER DANIEL C. GIACOMINI No. 21548 Exp. 9-30-97 CIVIL STATE OF CALIFORNIA			
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT			
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
CATHODIC PROTECTION SYSTEM DESIGN			
AS-BUILT - NO CHANGE	GM	7/19/01	
NO. REVISIONS	BY	DATE	
CONTRACT NO. 97-FT-2	SHEET		
CAD FILE 97F02P28AB.DWG	28 OF 29		
DESIGNED BY BD/REC	CHECKED BY REC	DRAWN BY BD	
SCALE AS-SHOWN	DATE	2-17-98	

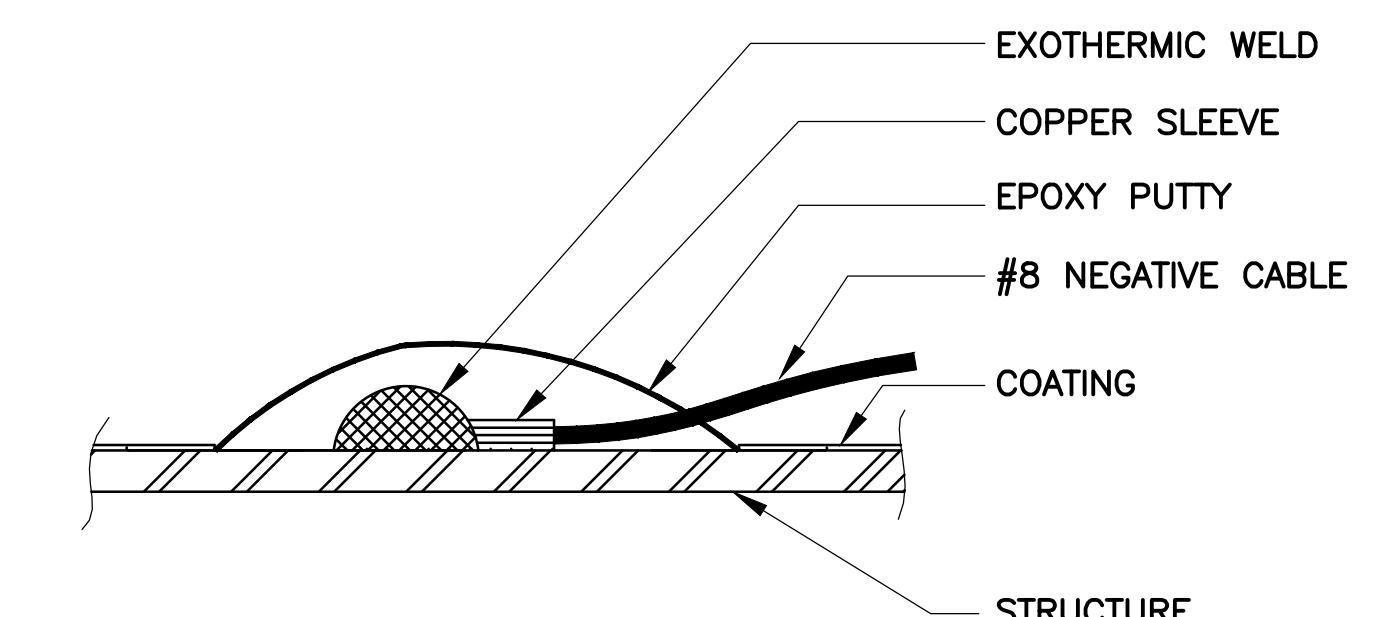


2 29/29 NO SCALE
RECTIFIER SCHEMATIC WIRING DIAGRAM

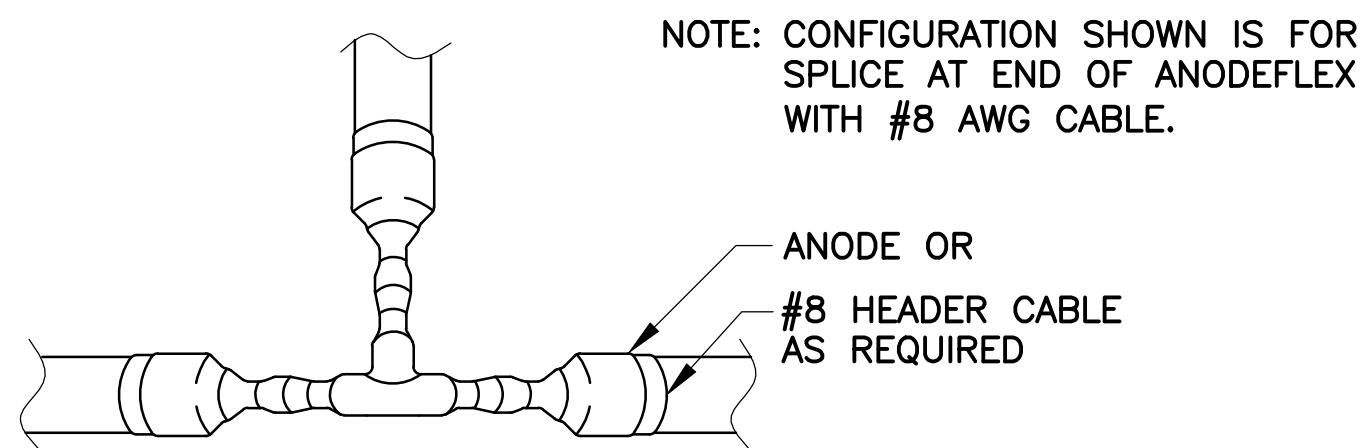
3 29/29 NO SCALE
ANODE JUNCTION BOX DETAIL



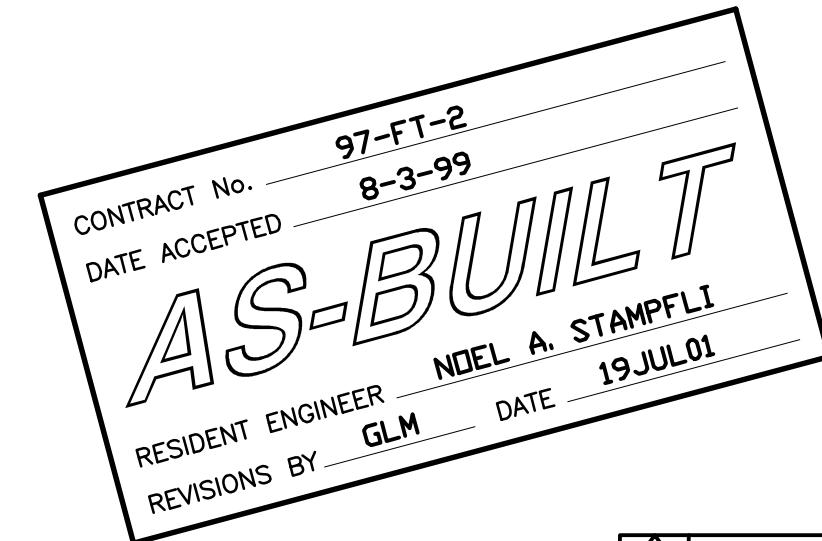
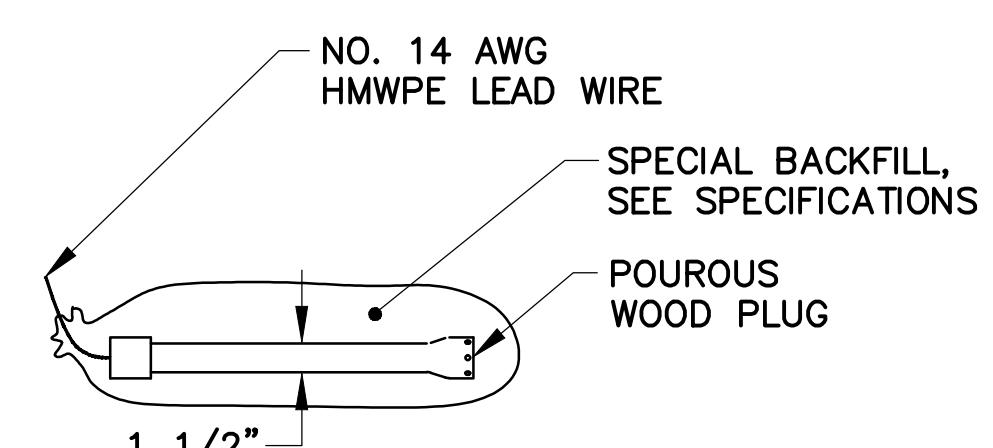
5 28/29 NO SCALE
ANODE FLEXIBLE DETAIL (ANODEFLEX 1500)



1 28/29 NO SCALE
RECTIFIER INSTALLATION DETAIL



4 28/29 NO SCALE
ELECTRICAL PULL BOX DETAIL



8 28/29 NO SCALE
ANODE FLEXIBLE DETAIL (ANODEFLEX 1500)

6 28/29 NO SCALE
ANODEFLEX TEE SPLICE KIT DETAIL

7 28/29 NO SCALE
CuCuSO4 REFERENCE ELECTRODE DETAIL

ConCeCo Engineering, Inc.
5167 CLAYTON ROAD, SUITE F
CONCORD, CA 94521
PHONE: (925) 682-8780 FAX: (925) 682-8786
WINZLER & KELLY CONSULTING ENGINEERS
200 PIPE STREET # 600 SAN FRANCISCO, CA 94104
(415) 283-4979 FAX (415) 283-4980

APPROVED BY			
RONN C. GIACOMA No. 21548 Exp. 9-30-97 CIVIL STATE OF CALIFORNIA			
LARKSPUR FERRY TERMINAL FUEL SYSTEM IMPROVEMENTS			
2-17-98	DISTRICT ENGINEER	DESIGNED BY BD/REC	CHECKED BY REC
DATE	DRAWN BY BD	SCALE AS-SHOWN	DATE 2-17-89

GOLDEN GATE BRIDGE, HIGHWAY
AND TRANSPORTATION DISTRICT

LARKSPUR FERRY TERMINAL
FUEL SYSTEM IMPROVEMENTS

CATHODIC PROTECTION
DETAIL SHEET

DESIGNED BY BD/REC

CHECKED BY REC

DRAWN BY BD

SCALE AS-SHOWN

DATE 2-17-89