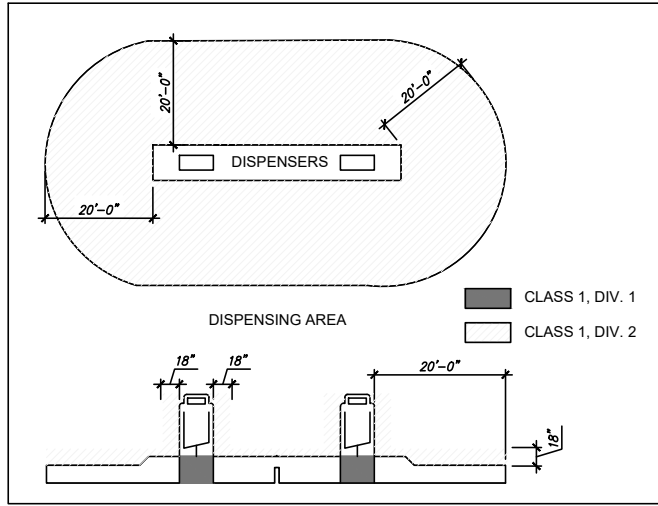


**FUEL SYSTEM PLAN ( EDO Combined Tank Pit)**  
 SCALE: 1" = 30'-0"

**TANK, PIPING & INSTALLATION NOTES:**

- ALL NEW PETROLEUM EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE FDEP APPROVED. ALL PETROLEUM EQUIPMENT, MATERIALS, AND ACCESSORIES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE MANUFACTURER'S INSTRUCTIONS.
- ALL TANK AND PIPING INSTALLATION WORK IS TO BE PERFORMED BY A STATE REGISTERED POLLUTANT STORAGE SPECIALTY CONTRACTOR.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE STATE, COUNTY AND MUNICIPAL REQUIREMENTS: THE 2000 FLORIDA BUILDING CODE, SEVENTH EDITION; THE 2000 FLORIDA FIRE PREVENTION CODE, SEVENTH EDITION & IAC CHAPTER 604-8 UNIFORM FIRE SAFETY STANDARDS FOR SELF SERVICE GASOLINE STATIONS; AND THE FOLLOWING REFERENCE STANDARDS:  
 NATIONAL FIRE PROTECTION ASSOCIATION:  
 30 FLAMMABLE AND COMBUSTIBLE LIQUID CODE 2015 EDITION  
 304 MOTOR FUEL DISPENSING FACILITIES & REPAIR GARAGE 2015  
 309 UNDERGROUND LEAKAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS  
 70 NATIONAL ELECTRIC CODE, 2017 EDITION  
 AMERICAN PETROLEUM INSTITUTE:  
 1615 INSTALLATION OF UNDERGROUND PETROLEUM STORAGE SYSTEMS  
 1604 RECOMMENDED PRACTICE FOR ABANDONMENT OR REMOVAL OF USED U.G. STORAGE TANKS  
 PETROLEUM EQUIPMENT INSTITUTE:  
 RPI100 RECOMMENDED PRACTICES FOR INSTALLATION OF U.G. LIQUID STORAGE TANKS  
 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:  
 CONSTRUCTION SAFETY AND HEALTH REGULATIONS SUBPART P, 1902.50 THRU 1926.653  
 FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION:  
 62-761 STORAGE TANK SYSTEMS  
 62-770 PETROLEUM CONTAMINATION SITE CLEANUP  
 62-779 30K THERMAL TREATMENT FACILITIES



NFPA 514.3 CLASSIFIED AREAS

**EMERGENCY INSTRUCTIONS**

IN CASE OF FIRE OR SPILL:

- USE EMERGENCY STOP BUTTON.
- REPORT ACCIDENT BY CALLING (SPECIFY LOCAL FIRE NUMBER) ON THE PHONE. REPORT LOCATION.

**NFPA 30A 9.5.3 EMERGENCY INSTRUCTIONS, TYP. EA. DISP.**

SIGNS SHALL BE CONSPICUOUSLY POSTED ON SIDES OF EACH DISPENSER IN THE DISPENSING AREA AND INCORPORATE THE ABOVE OR EQUIVALENT WORDING.

**WARNING**

IT IS UNLAWFUL AND DANGEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS.  
 NO SMOKING.  
 STOP MOTOR.  
 NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE.  
 PLACE CONTAINER ON GROUND BEFORE FILLING. DISCHARGE YOUR STATIC ELECTRICITY BEFORE FUELING BY TOUCHING A METAL SURFACE AWAY FROM THE NOZZLE. DO NOT RE-ENTER YOUR VEHICLE WHILE GASOLINE IS PUMPING.  
 IF A FIRE STARTS, DO NOT REMOVE NOZZLE --- BACK AWAY IMMEDIATELY.  
 DO NOT ALLOW INDIVIDUALS UNDER LICENSED AGE TO USE THE PUMP.

**NFPA 30A 9.2.5.4 WARNING SIGNS, TYP. EA. GASOLINE DISPENSER**

SIGNS SHALL BE CONSPICUOUSLY POSTED ON SIDES OF EACH DISPENSER IN THE DISPENSING AREA AND INCORPORATE THE ABOVE OR EQUIVALENT WORDING

**ELECTRICAL NOTES:**

- N.E.C. ARTICLE 500 & 514 CONDITIONS FOR HAZARDOUS AREAS AND FUEL DISPENSING FACILITIES APPLY.
- PROVIDE EXPLOSION PROOF SEALS-OFFS IN ACCORDANCE WITH ARTICLES 500, 501 AND 514 (CLASS 1, DIVISION 1 & 2) NATIONAL ELECTRICAL CODE TYPICAL FOR ALL CONDUITS IN CLASS 1 LOCATIONS, INCLUDING LOW VOLTAGE CONDUITS.
- ALL CONDUITS IN CLASS 1 LOCATIONS SHALL BE GROUNDED AS PER NEC 250.100 & 501.30.
- SEE DETAIL SHEET T1.1 ATTACHED AND BUILDING/ELECTRICAL FOR PANEL SCHEDULES, LOAD AND CIRCUIT DETAILS.
- NFPA 30A, 9.2.5.4 SIGNS: A WARNING SIGN "WARNING IT IS UNLAWFUL AND DANGEROUS...NO SMOKING, STOP MOTOR...LICENSED AGE TO USE THE PUMP" SHALL BE PROVIDED @ EA. DISPENSER. SEE DETAIL THIS SHEET.

**N.F.P.A. NOTES:**

- CASHER/ATTENDANT'S VIEW OF DISPENSING AREA SHALL REMAIN UNOBSTRUCTED & ONE ATTENDANT SHALL BE ON DUTY AT ALL TIMES PER NFPA 30A, 9.4.2.
- NEW NOZZLES TO BE EQUIPPED WITH AUTOMATIC SHUT-OFFS PER NFPA 30A, 9.6.1.
- NFPA 30A, 9.2.5.2/NFPA 10 HIGH FLOW FIRE EXTINGUISHER: AMEREX MODEL NO. 760, 4A:60B;C, 20 LBS CAPACITY OR EQUAL, ARE PROVIDED WITHIN 100 FT OF ALL DISPENSING PUMPS & FILL PIPE OPENINGS.
- EMERGENCY CONTROLS ARE PROVIDED AT LOCATION AS PER NFPA 30A, 6.7 (NOT MORE THAN 100 FT FOR ATTENDED SELF-SERVICE DISPENSING AREA & MORE THAN 20 FT BUT LESS THAN 100 FT FOR UNATTENDED).
- NFPA 30A, 9.2.5.4: "NO SMOKING...TURN OFF ENGINE" SIGNAGE IS PROVIDED @ EA. FUEL ISLAND.
- NFPA 30A, 9.5.3: "EMERGENCY INSTRUCTIONS" SIGNAGE IS PROVIDED @ EA. FUEL ISLAND, SEE COPY BELOW.
- THE AUTHORITY HAVING JURISDICTION SHALL BE GIVEN ADVANCE NOTIFICATION OF THE TIME AT WHICH ACCEPTANCE TESTS FOR ALL SAFETY-RELATED PRODUCT CONTROL EQUIPMENT ARE TO BE PERFORMED SO THAT THE AUTHORITY CAN WITNESS THE TEST, PER NFPA 1, 4.5.8.6.

**PIPING NOTES:**

- NEW UNDERGROUND PRODUCT PIPING TO BE NOV FIBERGLASS SYSTEMS RED THREAD II A D/W F/G, U.N.O.
- PRODUCT LINES AND VENT LINES TO SLOPE MIN. 1/8" PER FOOT DOWN TO UNDERGROUND TANKS.
- NEW FIBERGLASS PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR PIPE INSTALLATION, DESIGN DETAILS & SPECIFICATIONS AS SHOWN ON THESE DRAWINGS.

**TANK NOTES:**

- TANKS TO BE XERXES DOUBLE-WALL FIBERGLASS UL-1316. SEE SHEETS RT-14.0 & RT-11.0 FOR CALL-OUT.
- TANKS TO BE INSTALLED IN ACCORDANCE WITH NFPA 30, CHAPTER 23 AND MANUFACTURER'S REQUIREMENTS FOR PIPE INSTALLATION DESIGN DETAILS (RT-11.0 THRU RT-14.0) & SPECIFICATIONS (RT-15.0) AS SHOWN ON THESE DRAWINGS.
- TOP OF TANK TO SET @ 4'-0" (MIN.) BELOW FINISH GRADE.
- TANKS TO BE ANCHORED W/CONCRETE DEADEN.
- OVERFILL PROTECTION: OPW 7150 VALVE SET @ 95% TANK CAPACITY WITH VEEDER ROOT AUDIBLE OVERFILL ALARM SET AT 90% TANK CAPACITY SEE DETAILS SHEET RT-12.0 & RT-11.0

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**DESIGN PROFESSIONALS**

**MDM**  
 engineering • environmental • construction  
 2151 W HILLSBORO BLVD. STE. 401 DEERFIELD BEACH, FL 33442  
 (954) 927-3076

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE REMOVE ONE TANK & REVISE PIPING
10/13/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE

**RaceTrac**

RACETRAC PETROLEUM, INC.  
 200 GALLERIA PARKWAY SE  
 SUITE 900  
 ATLANTA, GEORGIA 30339  
 (770) 431-7600

**PROJECT NAME**

**VERO BEACH TC**

**VERO BEACH FLORIDA**

8990 20th STREET  
 VERO BEACH, FLORIDA

**RACETRAC PROJECT NUMBER**

**1422**

**PLAN SERIES**

**2011 BR-RH-M90 0801**

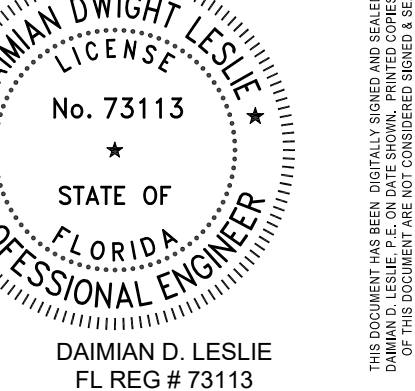
**PLAN MODIFICATION NOTICE**

- NO MODIFICATIONS APPLIED
- MODIFICATIONS APPLY

**SPB NO. N/A DATE N/A**

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

**PROFESSIONAL SEAL**



**PROJECT NUMBER**

**19252**

**SHEET TITLE & NUMBER**

**FUEL SYSTEM PLAN**

**FILE NUMBER**

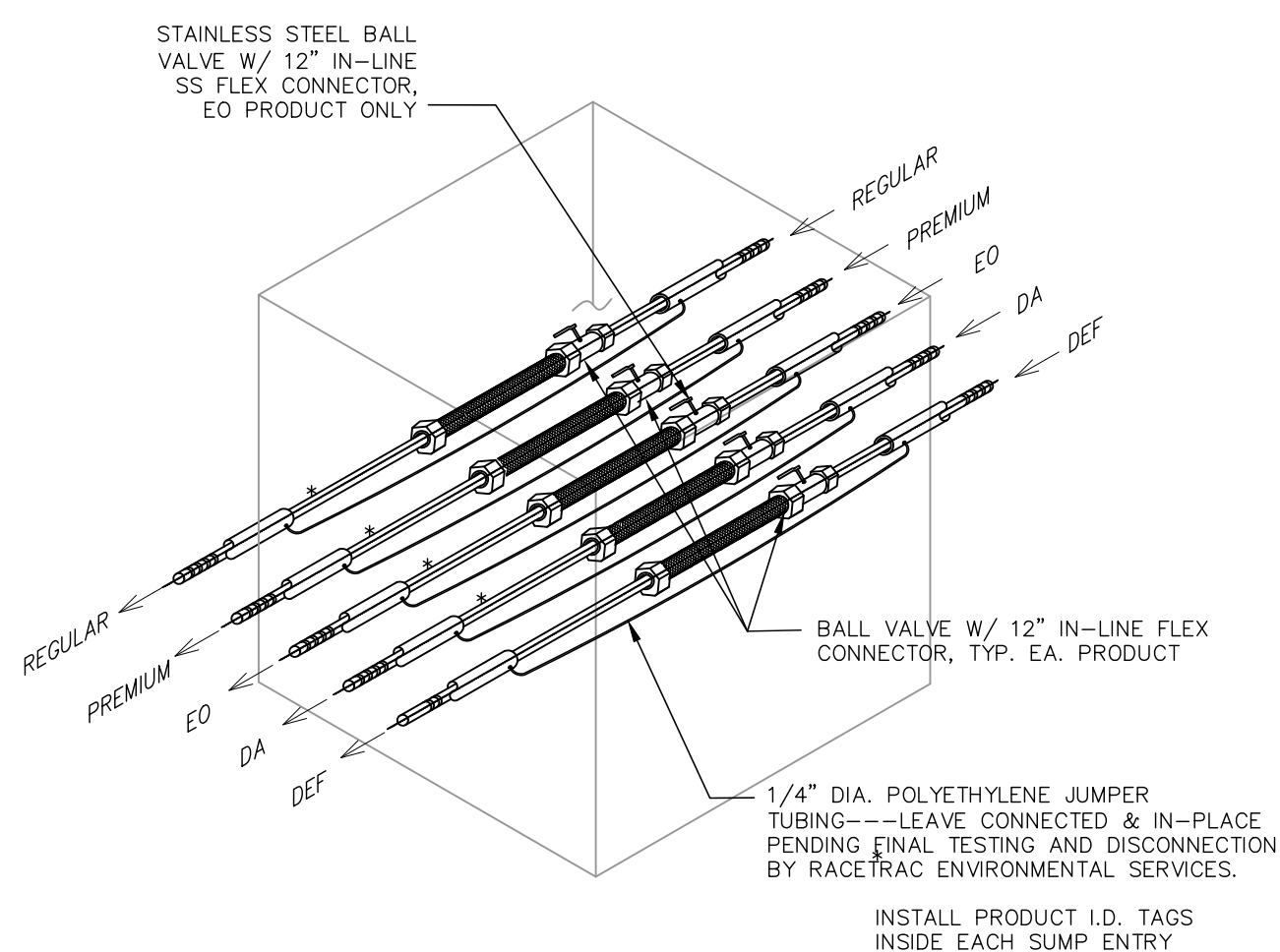
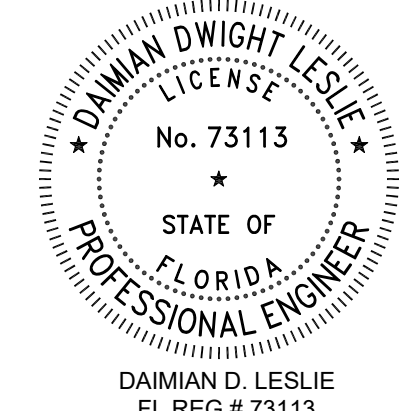
**T0.0**

ISSUED FOR CONSTRUCTION

ISSUE/REVISION RECORD	DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL	UPDATE REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE	
04/01/22	CLIENT GLOBAL UPDATE	

- NO MODIFICATIONS APPLIED
  - MODIFICATIONS APPLY
- SPB NO. N/A DATE N/A

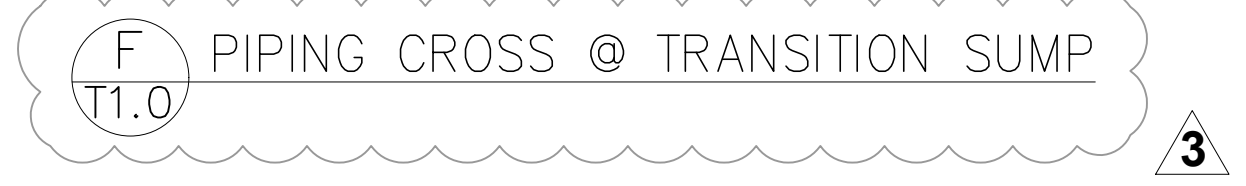
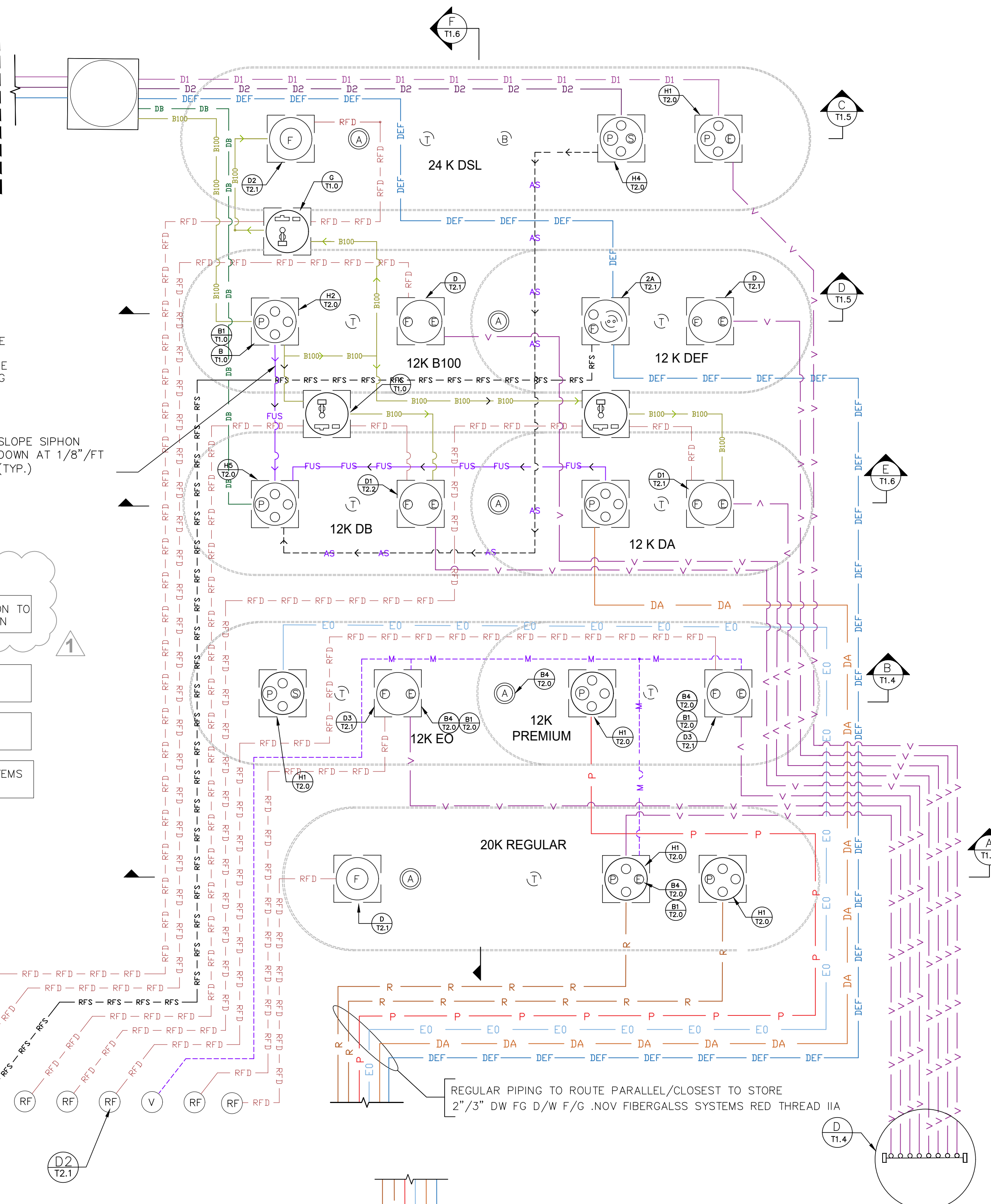
STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.



- RFS REMOTE FILL PIPING, 4" S/W F/G
  - R REGULAR, 2" / 3" D/W F/G\*
  - P PREMIUM, 2" / 3" D/W F/G\*
  - EO EO, 2" / 3" D/W F/G \*
  - VR VAPOR RECOVERY, 3" S/W F/G
  - FUS FUTURE USE SIPHON, 2" / 3" D/W F/G\*
  - V VENT, 3" S/W F/G
  - M VAPOR MANIFOLD, 3" S/W F/G
  - DA DIESEL, STP 1, 2" / 3" D/W F/G \*
  - D1 DIESEL, STP 2, 2" / 3" D/W F/G \*
  - D2 DIESEL, STP 3, 2" / 3" D/W F/G \*
  - B100 B-100 DIESEL, TANK 1, 2" / 3" D/W F/G\*
  - DEF DEF, 2" / 3" D/W F/G \*
  - SAT MASTER/SATELLITE CONNECTOR, 2" / 3" D/W F/G
- \* 2" PRIMARY / 3" SECONDARY

- (P) SUBMERGED TURBINE PUMP
- (A) ANNULAR SPACE MONITOR
- (B) UNUSED BUNG
- (F) DIRECT FILL
- (RF) REMOTE FILL
- (E) EXTRACTOR ASSEMBLY
- (V) STAGE 1 VAPOR RECOVERY STUB
- (S) MANIFOLD SIPHON
- (T) TANK LEVEL MONITOR
- (M) MONITORING WELL (WHERE REQUIRED)
- (FE) NFPA 30A, 9.2.5.2/NFPA 10 HIGH FLOW FIRE EXTINGUISHER; AMEREX MODEL NO. 760, 4A-60B-C, 20 LBS CAPACITY OR EQUAL, ARE PROVIDED WITHIN 100 FT OF ALL DISPENSING PUMPS & FILL PIPE OPENINGS..
- ☒ FULL PORT BALL VALVE (CLOSED)
- ☑ FULL PORT BALL VALVE (OPEN)
- ⊕ UNION

MATCH SHEET 1.1



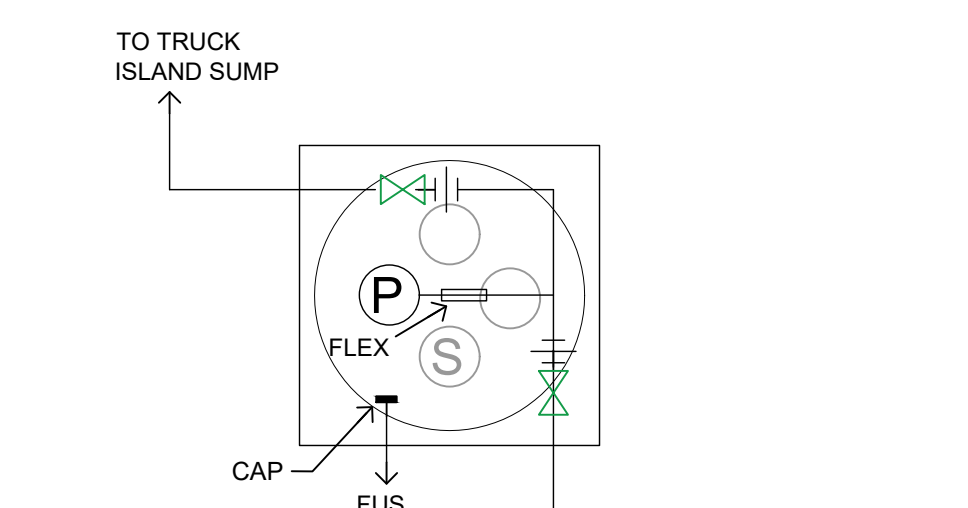
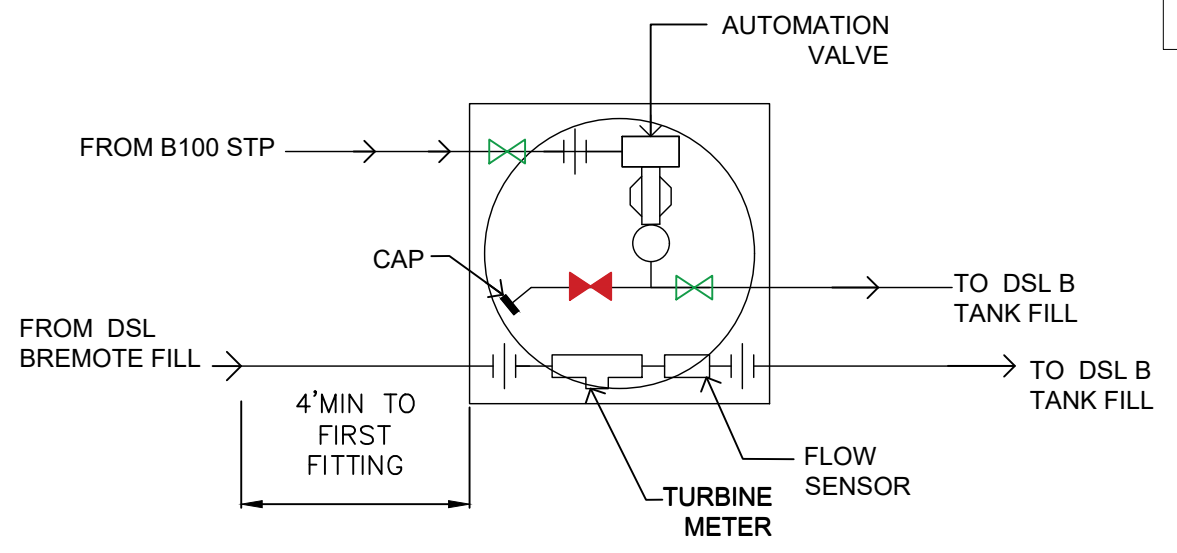
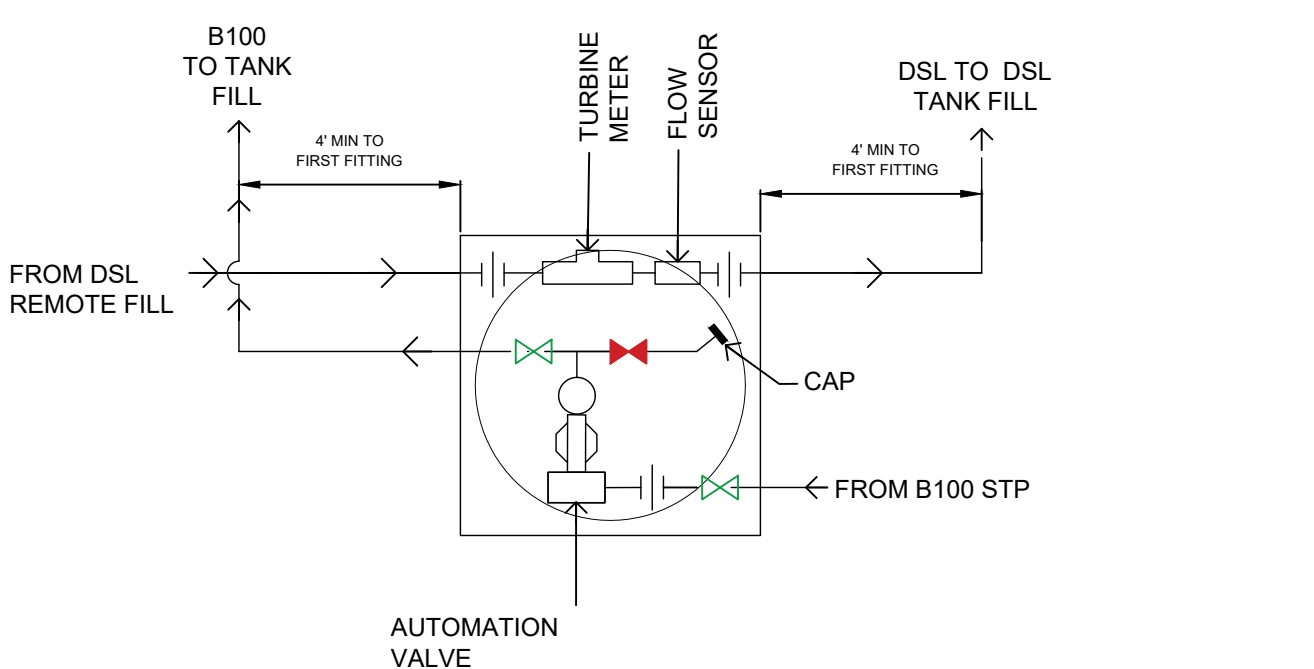
NOTE:

CONTRACTOR TO VERIFY W/RACETRAC REP IF SIPHON TO BE ACTIVE OR FUTURE USE PRIOR TO CONSTRUCTION

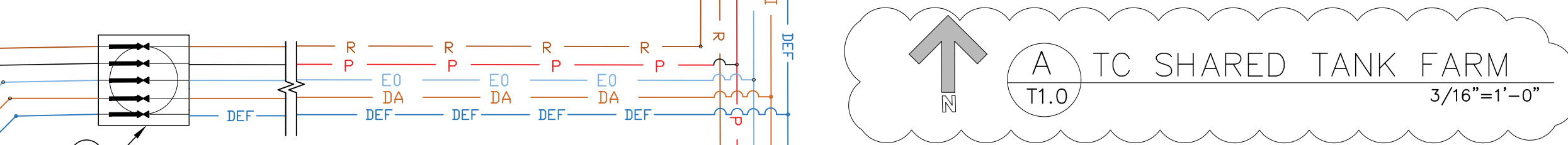
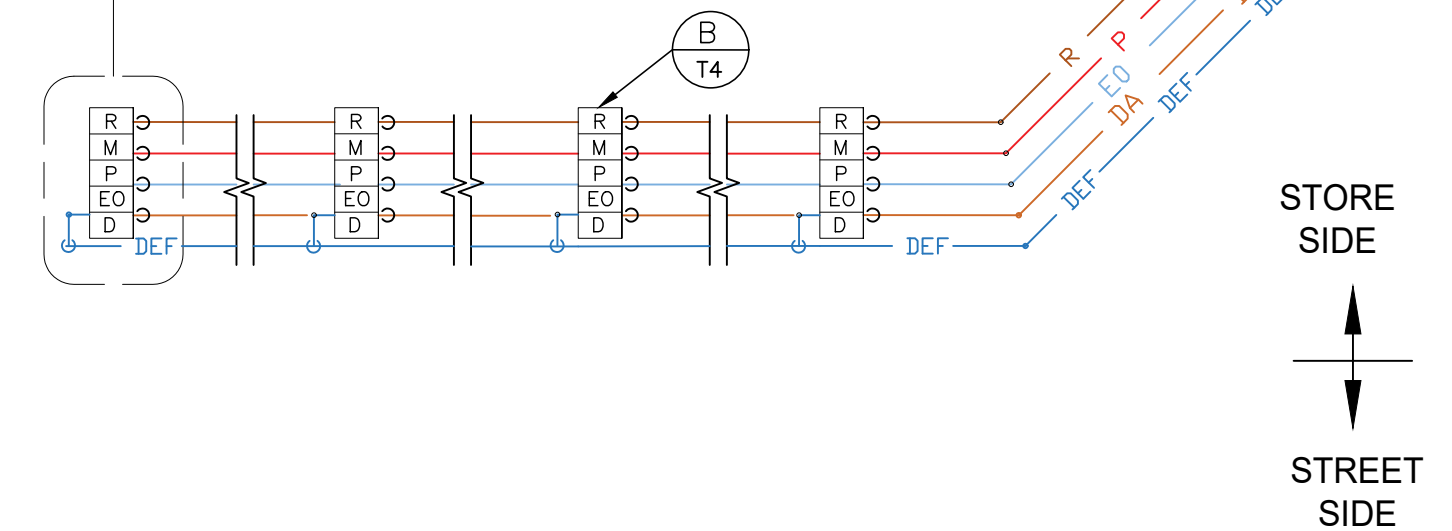
SHIFT TRANSITION SUMPS AS NEEDED TO ALIGN PRODUCT PIPING

PETROLEUM CONTRACTOR MUST PROVIDE AN ACCURATE, DETAILED AS-BUILT OF THE SYSTEM.

ALL PRODUCT PIPING TO BE NOV FIBERGLASS SYSTEMS RED THREAD IIA 2" / 3" D/W F/G, U.N.O.



- R REGULAR
- M MID-GRADE (BLENDED, REG/PREM)
- P PREMIUM
- EO NON-ETHANOL (EO)
- DA DSL A (DEF CAPPED AT SHEAR VALVE)



DEF TO BE CAPPED WITHIN DISPENSER SUMP

1 2 3

1 2 3

ISSUE/REVISION RECORD

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE

PROJECT NAME

**VERO BEACH TC**

**VERO BEACH  
 FLORIDA**  
 8990 20th STREET  
 VERO BEACH, FLORIDA

RACETRAC PROJECT NUMBER  
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PLAN SERIES  
**2011 BR-RH-M90 0801**

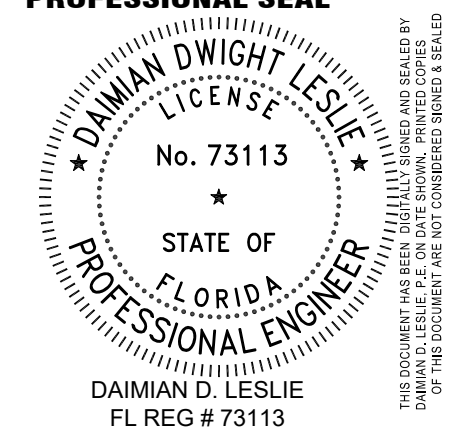
PLAN MODIFICATION NOTICE

- NO MODIFICATIONS APPLIED
- MODIFICATIONS APPLY

SPB NO. N/A DATE N/A

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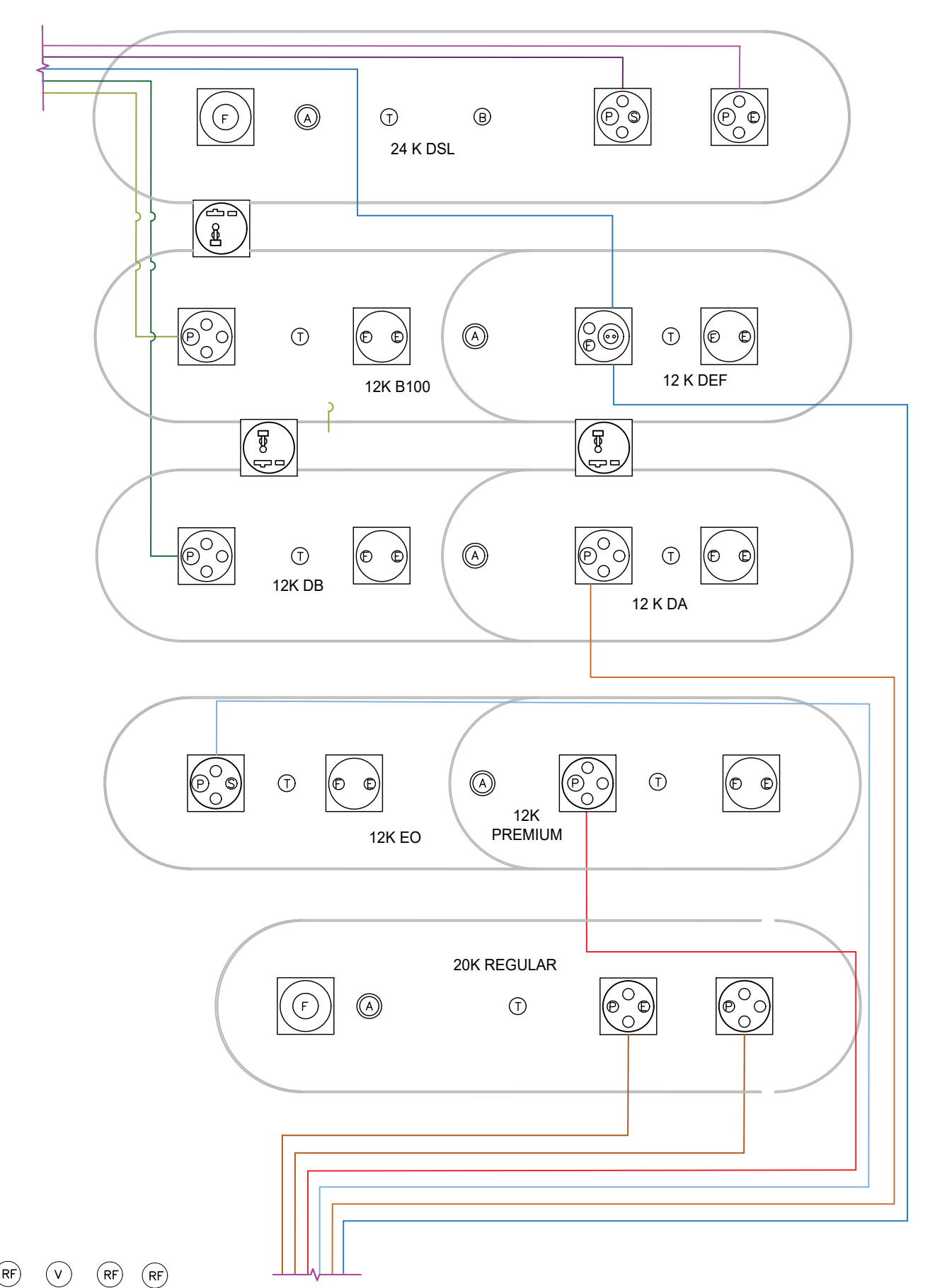
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PROJECT NUMBER  
**19252**

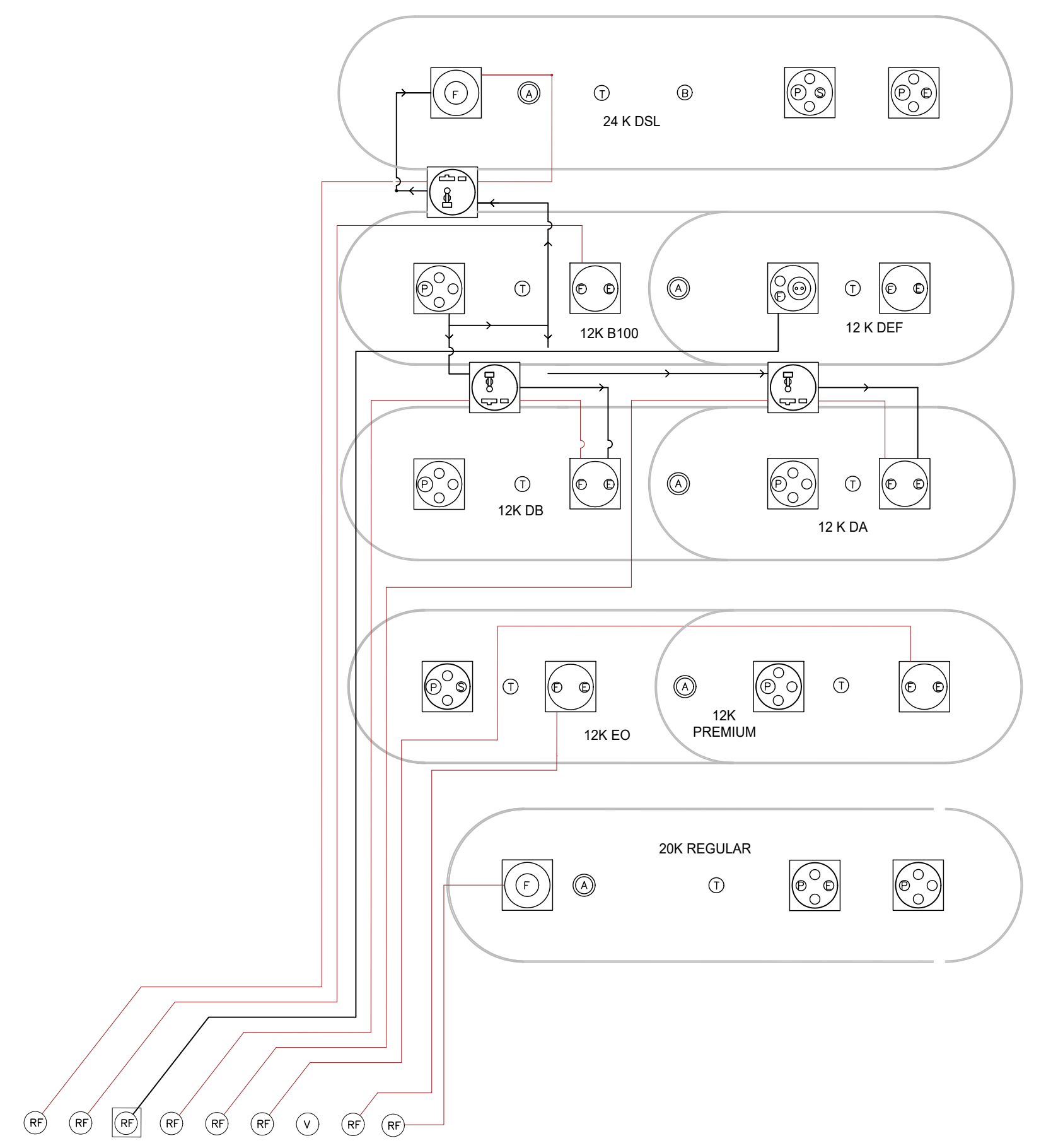
SHEET TITLE & NUMBER  
**FUELING TANK & PIPING LAYOUT**

FILE NUMBER  
**T1.01**



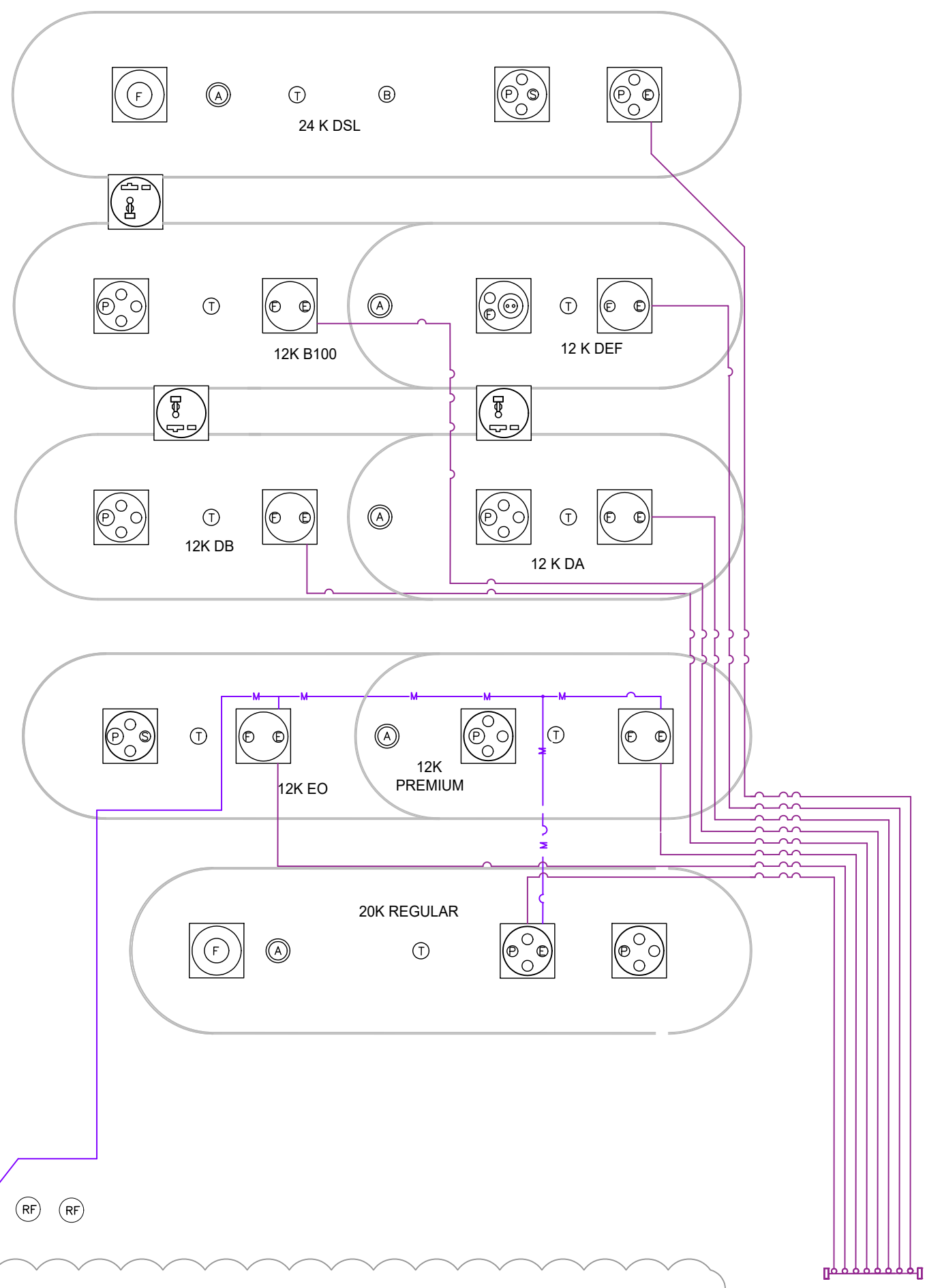
**A** FUEL PIPING  
 SCALE: 1/8"=1'-0"

1 2 3



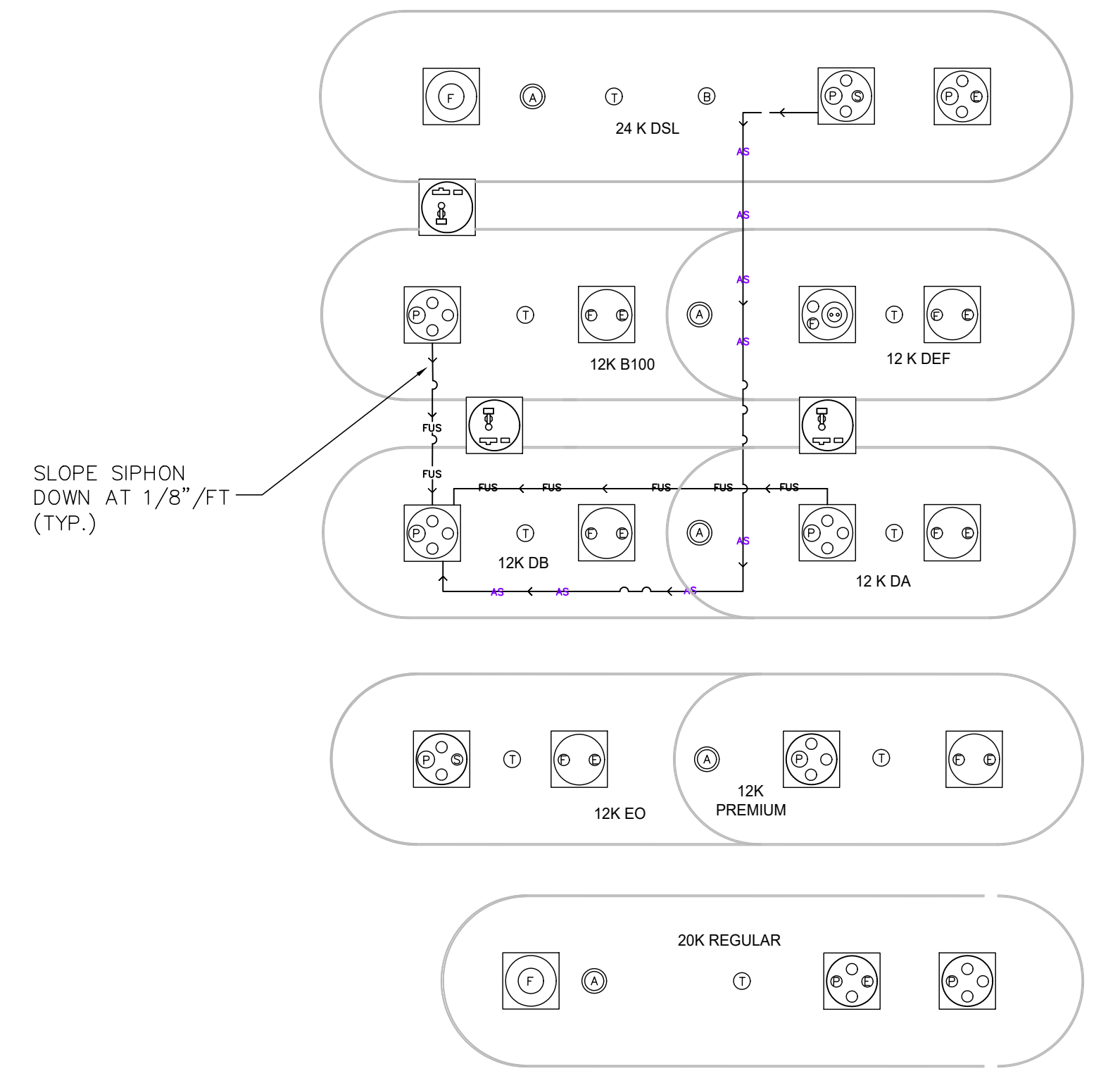
**B** REMOTE FILLS & BLEND PIPING  
 SCALE: 1/8"=1'-0"

1 2 3



**C** VENTS, VAPOR & VAPOR MANIFOLD  
 SCALE: 1/8"=1'-0"

1 2 3



**D** SIPHON FUS  
 SCALE: 1/8"=1'-0"

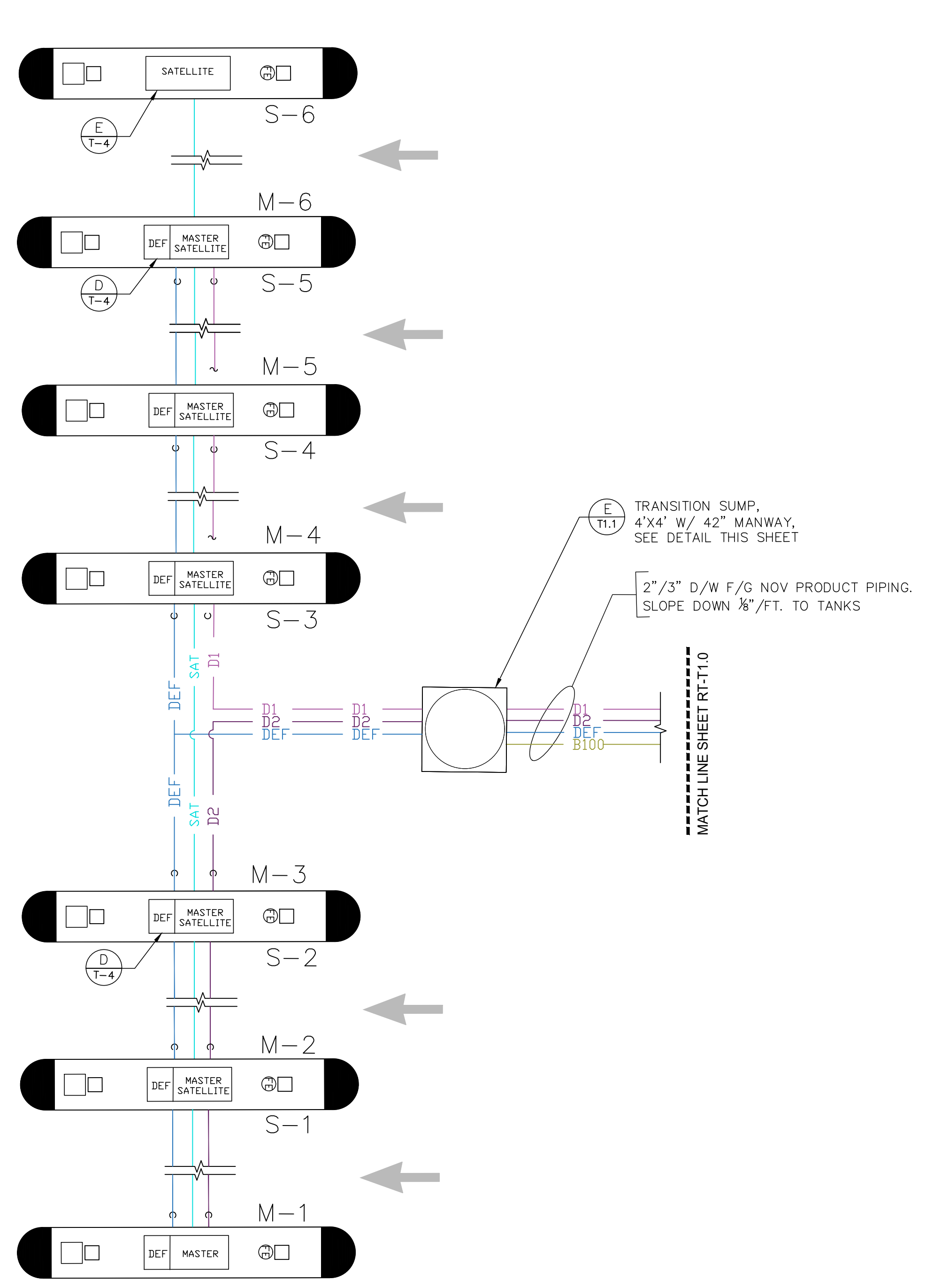
1 2 3

RF RF RF RF RF RF V RF RF

RF RF RF RF RF RF V RF RF

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE



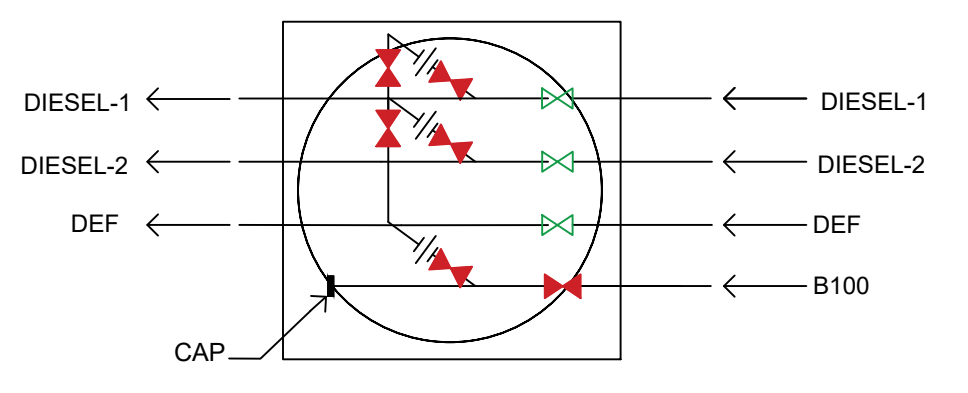
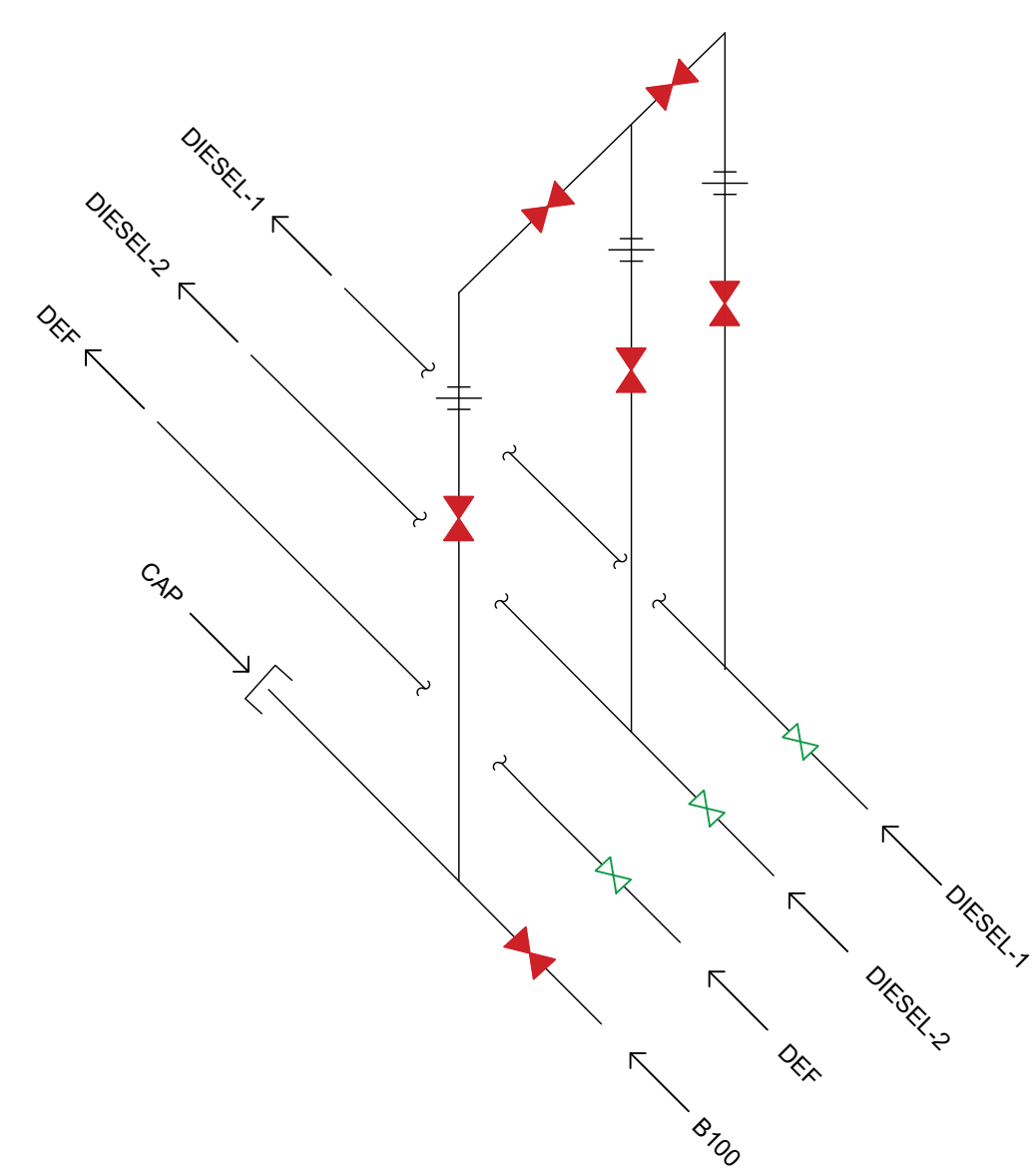
- RFS — REMOTE FILL PIPING, 4" S/W F/G
  - R — REGULAR, 2"/3" D/W F/G\*
  - P — PREMIUM, 2"/3" D/W F/G\*
  - EO — EO, 2"/3" D/W F/G \*
  - VR — VAPOR RECOVERY, 3" S/W F/G
  - AS — ACTIVE SIPHON, 2"/3" D/W F/G \*
  - FUS — FUTURE USE SIPHON, 2"/3" D/W F/G \*
  - V — VENT, 3" S/W F/G
  - M — VAPOR MANIFOLD, 3" S/W F/G
  - DSL-1 — DIESEL, TANK 1, 2"/3" D/W F/G \*
  - DSL-2 — DIESEL, TANK 2, 2"/3" D/W F/G \*
  - B100 — B-100 DIESEL, TANK 1, 2"/3" D/W F/G\*
  - DEF — DEF, 2"/3" D/W F/G \*
  - SAT — MASTER/SATELLITE CONNECTOR, 2"/3" D/W F/G
- \* 2" PRIMARY/3" SECONDARY

- (P) SUBMERGED TURBINE PUMP
  - (A) ANNULAR SPACE MONITOR
  - (B) UNUSED BUNG
  - (F) DIRECT FILL
  - (RF) REMOTE FILL
  - (E) EXTRACTOR ASSEMBLY
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- ✂ FULL PORT BALL VALVE (CLOSED)  
✂ FULL PORT BALL VALVE (OPEN)  
⊕ UNION

SHIFT TRANSITION SUMPS AS NEEDED TO ALIGN PRODUCT PIPING

PETROLEUM CONTRACTOR MUST PROVIDE AN ACCURATE, DETAILED AS-BUILT OF THE SYSTEM.

ALL PRODUCT PIPING TO BE NOV FIBERGLASS SYSTEMS RED THREAD IIA 2"/3" D/W F/G, U.N.O.

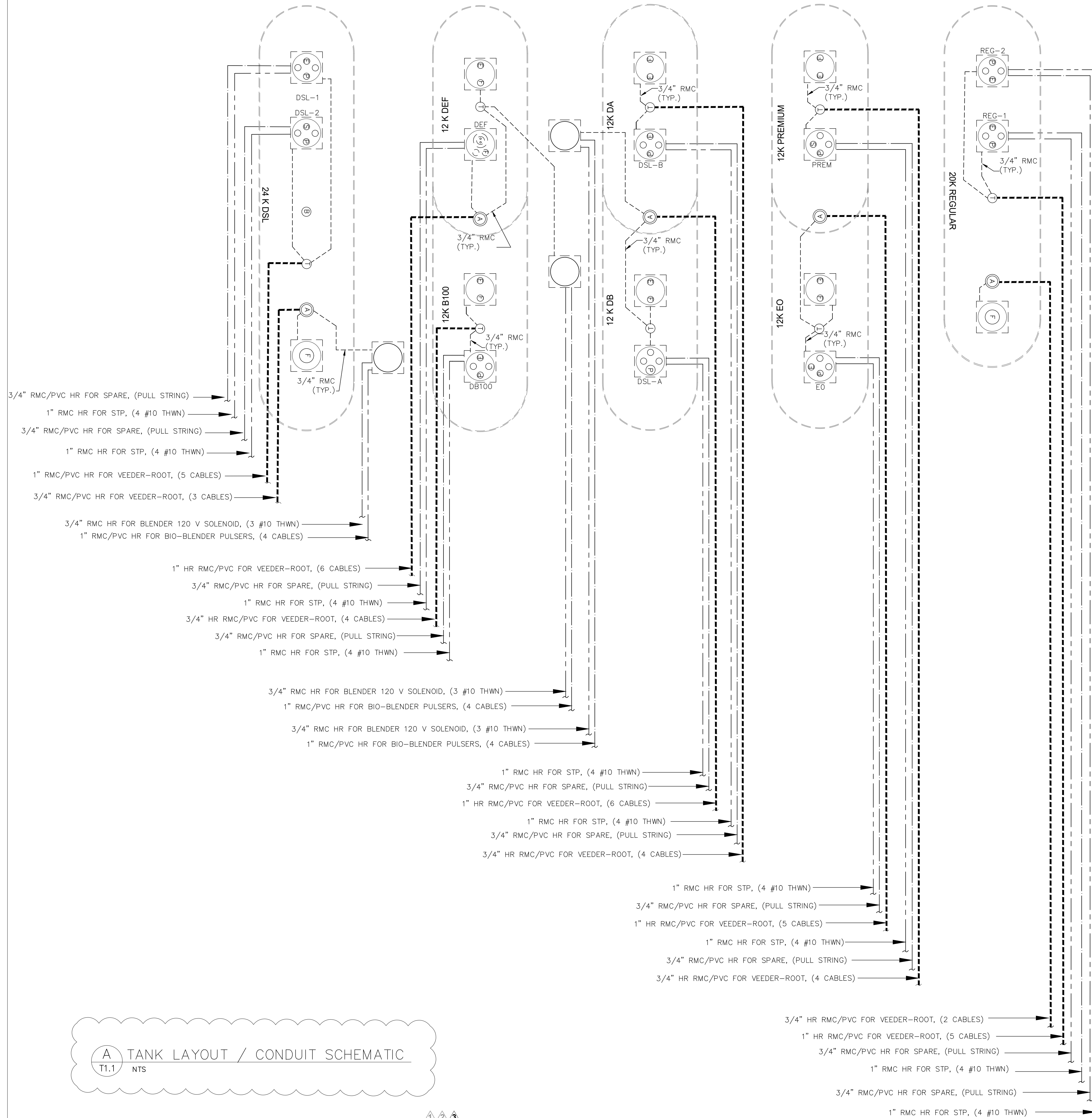


(F T1) PIPING CROSS @ TRANSITION SUMP  
 N.T.S.

(F T1) PIPING CROSS @ TRANSITION SUMP  
 N.T.S.

1 2 3

1 2 3



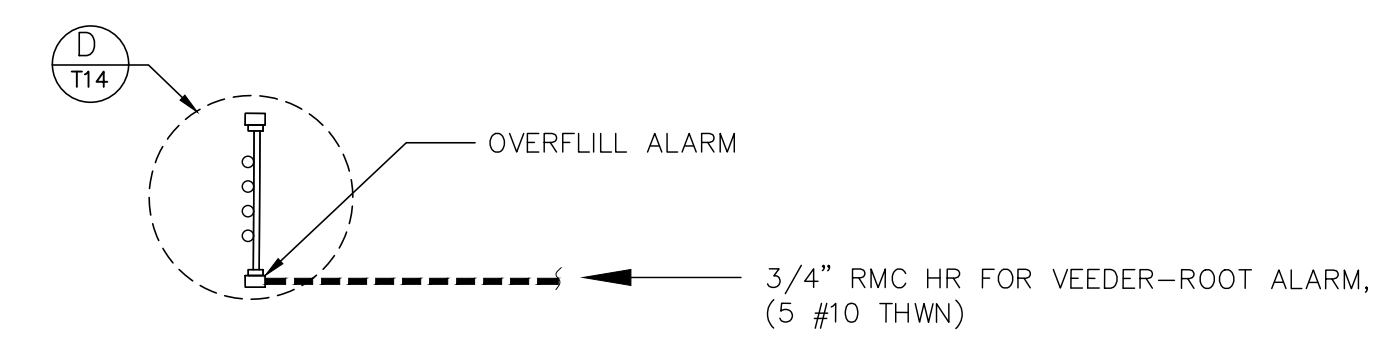
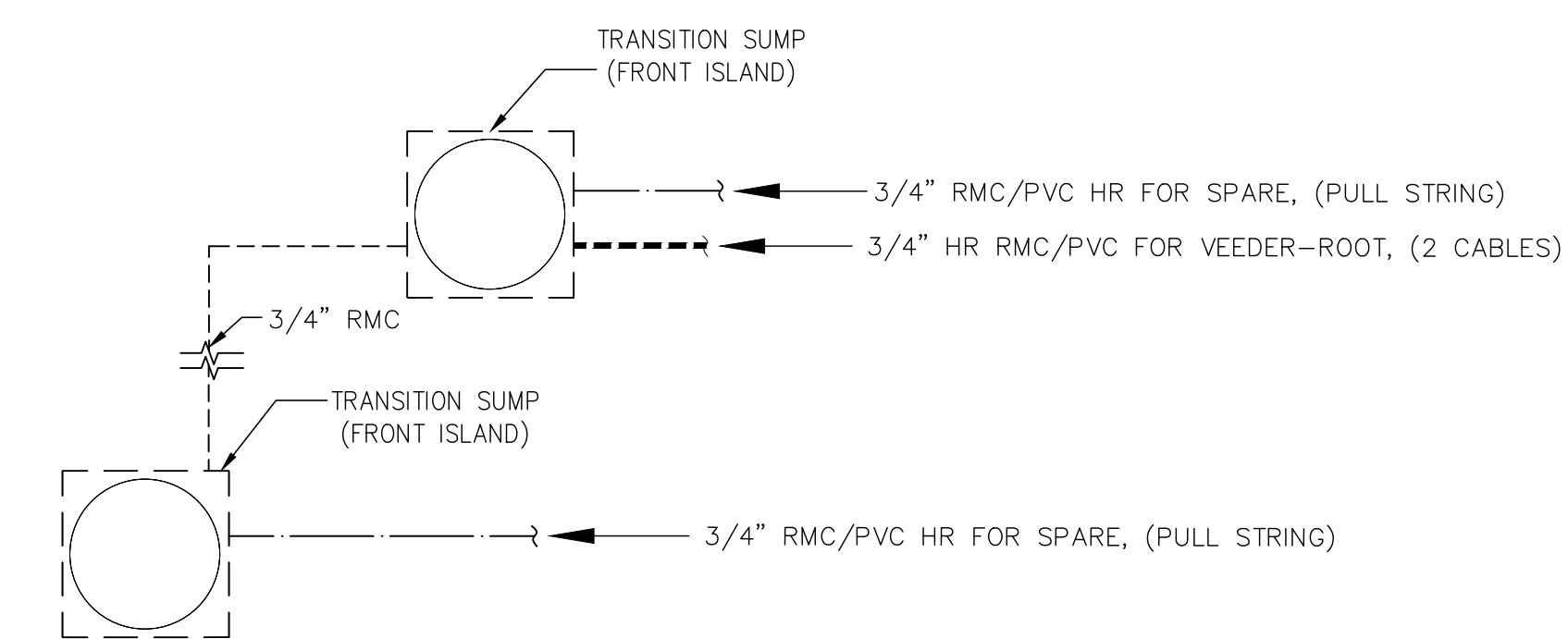
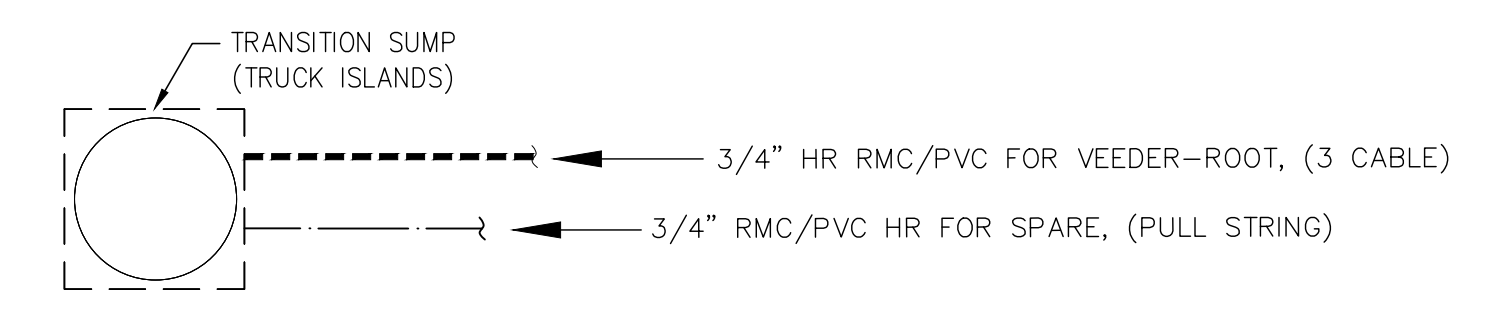
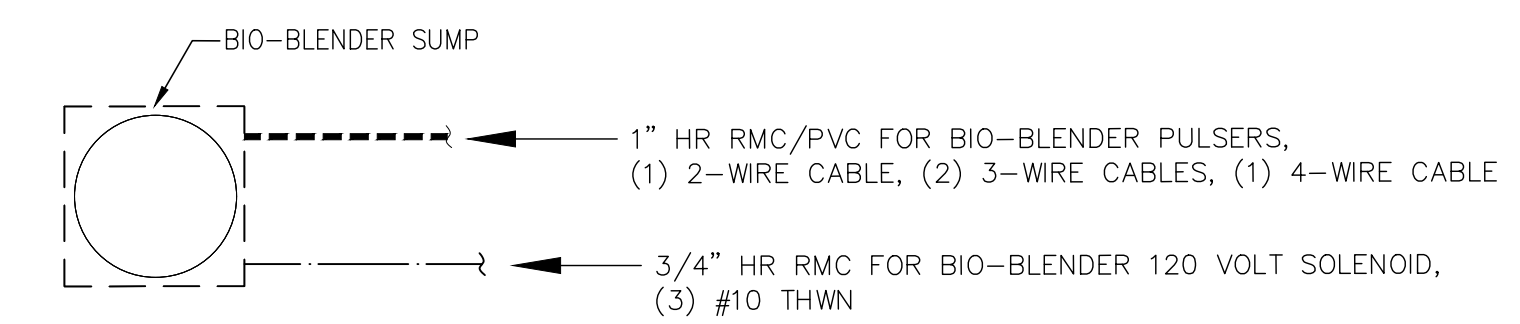
### DISPENSER AND TANK WIRE/CABLE REQUIREMENTS

ALL WIRE AND CABLE TO BE SUPPLIED AND INSTALLED BY CONTRACTOR

DESCRIPTION	COLOR	* SIZE
STP REGULAR #1	(4 HP STP) TAN	#10 (MAX. 200')
STP REGULAR #2	(4 HP STP) BROWN	#10 (MAX. 200')
STP PREMIUM	(2 HP STP) RED	#10 (MAX. 200')
STP EO	(2 HP STP) BLUE	#10 (MAX. 200')
STP DSL-A	(2 HP STP) BLACK	#10 (MAX. 200')
STP DSL-B	(2 HP STP) PURPLE	#10 (MAX. 200')
STP DSL-1	(4 HP STP) ORANGE	#10 (MAX. 200')
STP DSL-2	(4 HP STP) YELLOW	#10 (MAX. 200')
STP B100	(2 HP STP) PINK	#10 (MAX. 200')
STP DEF	(1.5 HP STP) LT BLUE	#10 (MAX. 200')
DISPENSER POWER	BLACK, WHITE & GREEN	#12
DISPENSER SPARES	PURPLE & GRAY	#12
SATELLITE DISPENSER LOOP POWER	BLACK, WHITE & GREEN	#12
SATELLITE DISPENSER CONTROL WIRES	AS NEEDED	#14
REGULAR #1 SWITCH LEG	TAN	#14
REGULAR #2 SWITCH LEG	BROWN	#14
PREMIUM SWITCH LEG	RED	#14
EO SWITCH LEG	BLUE	#14
DSL-A SWITCH LEG	BLACK	#14
DSL-B SWITCH LEG	PURPLE	#14
DSL-1 SWITCH LEG	ORANGE	#14
DSL-2 SWITCH LEG	YELLOW	#14
B100 SWITCH LEG	PINK	#14
DEF SWITCH LEG	LT BLUE	#14
DISPENSER DATA	BLACK & RED (DATA)	#18 TWISTED PAIR (12 TWISTS/FT)
DISPENSER DATA	PURPLE & YELLOW (CRIND)	#18 TWISTED PAIR (12 TWISTS/FT)
DISPENSER INTERCOM	(4) #22 SHIELDED, TWISTED, 2-PAIR	SMARTWIRE #FEP-22 2P-EPS
TLS-450 SENSORS	(2) #18 SHIELDED, TWISTED, 2-WIRE	SMARTWIRE #FEP-18-02-OAS
BIO-DIESEL BLENDER (12 VOLT SOLENOID)	(2) #18 SHIELDED, TWISTED, 2-WIRE	SMARTWIRE #FEP-18-02-OAS
BIO-DIESEL BLENDER (TURBO METERS)	(3) #18 SHIELDED, TWISTED, 3-WIRE	SMARTWIRE #FEP-18-03-OAS
BIO-DIESEL BLENDER (12 VOLT PODS)	(4) #18 SHIELDED, TWISTED, 4-WIRE	SMARTWIRE #FEP-18-04-OAS

\* MINIMUM WIRE SIZE. INCREASE WIRE SIZE & CONDUIT SIZE AS NEEDED TO MAINTAIN MAX. 3.0% VOLTAGE DROP FOR SITE SPECIFIC LAYOUT/ROUTING CONSISTENT WITH BUILDING ELECTRICAL DESIGN.

2/14/22



A TANK LAYOUT / CONDUIT SCHEMATIC  
T1.1 NTS

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**DESIGN PROFESSIONALS**

**MDM**  
engineering • environmental • construction  
2151 W HILLSBORO BLVD. STE 401 DEERFIELD BEACH, FL 33442  
FL CA 900457 (954) 427-3070

PLANS PREPARED BY:

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE

**RaceTrac**

RACETRAC PETROLEUM, INC.  
200 GALLERIA PARKWAY SE  
SUITE 900  
ATLANTA, GEORGIA 30339  
(770) 431-7600

**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH FLORIDA**  
8990 20th STREET  
VERO BEACH, FLORIDA  
**RACETRAC PROJECT NUMBER**  
**1422**

**PLAN SERIES**  
**2011 BR-RH-M90 0801**

**PLAN MODIFICATION NOTICE**

NO MODIFICATIONS APPLIED  
 MODIFICATIONS APPLY  
**SPB NO. N/A DATE N/A**

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

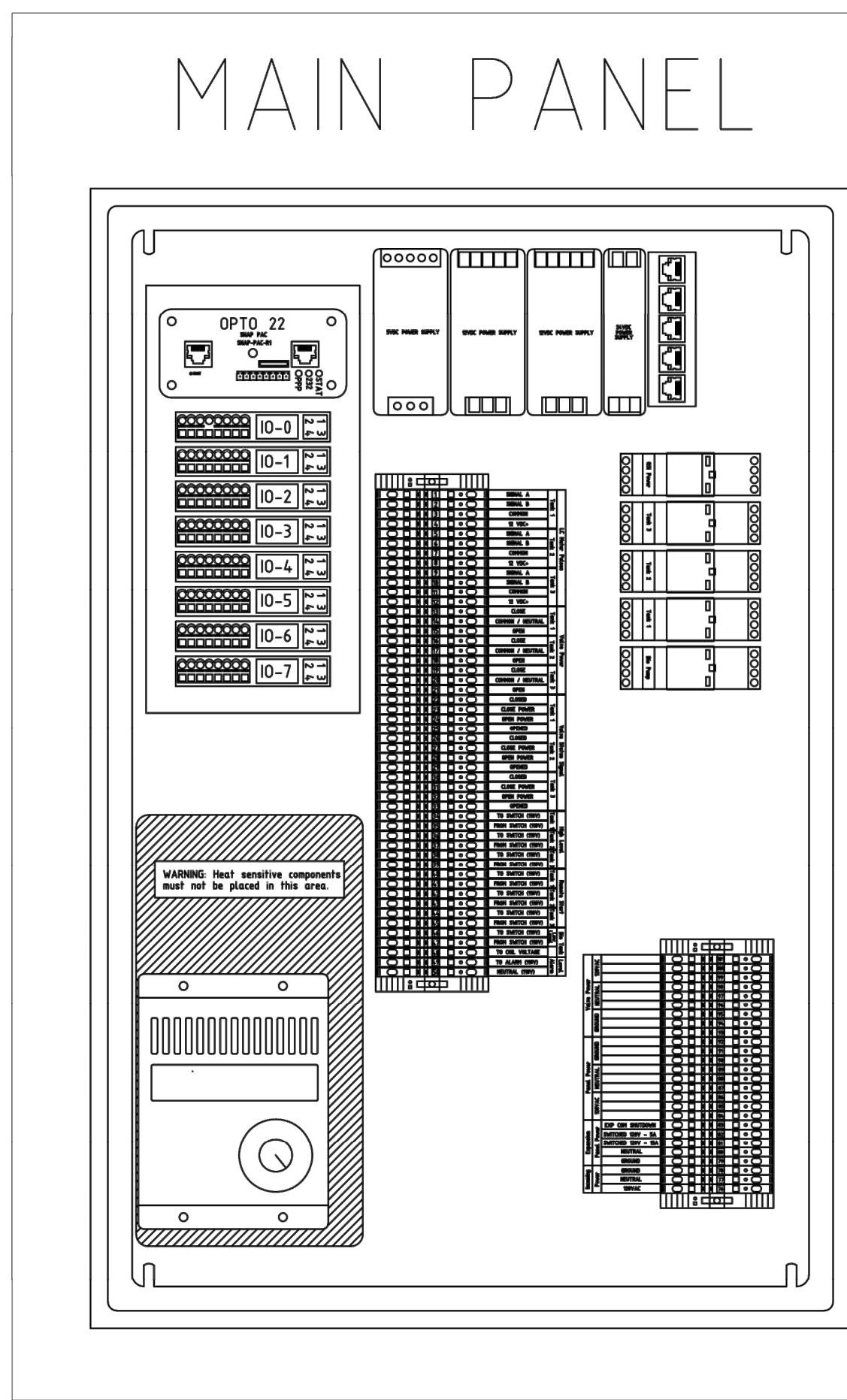
**PROFESSIONAL SEAL**

DAIMIAN D. LESLIE  
FL REG # 73113

**PROJECT NUMBER**  
**19252**

**SHEET TITLE & NUMBER**  
**ELECTRICAL PLAN**

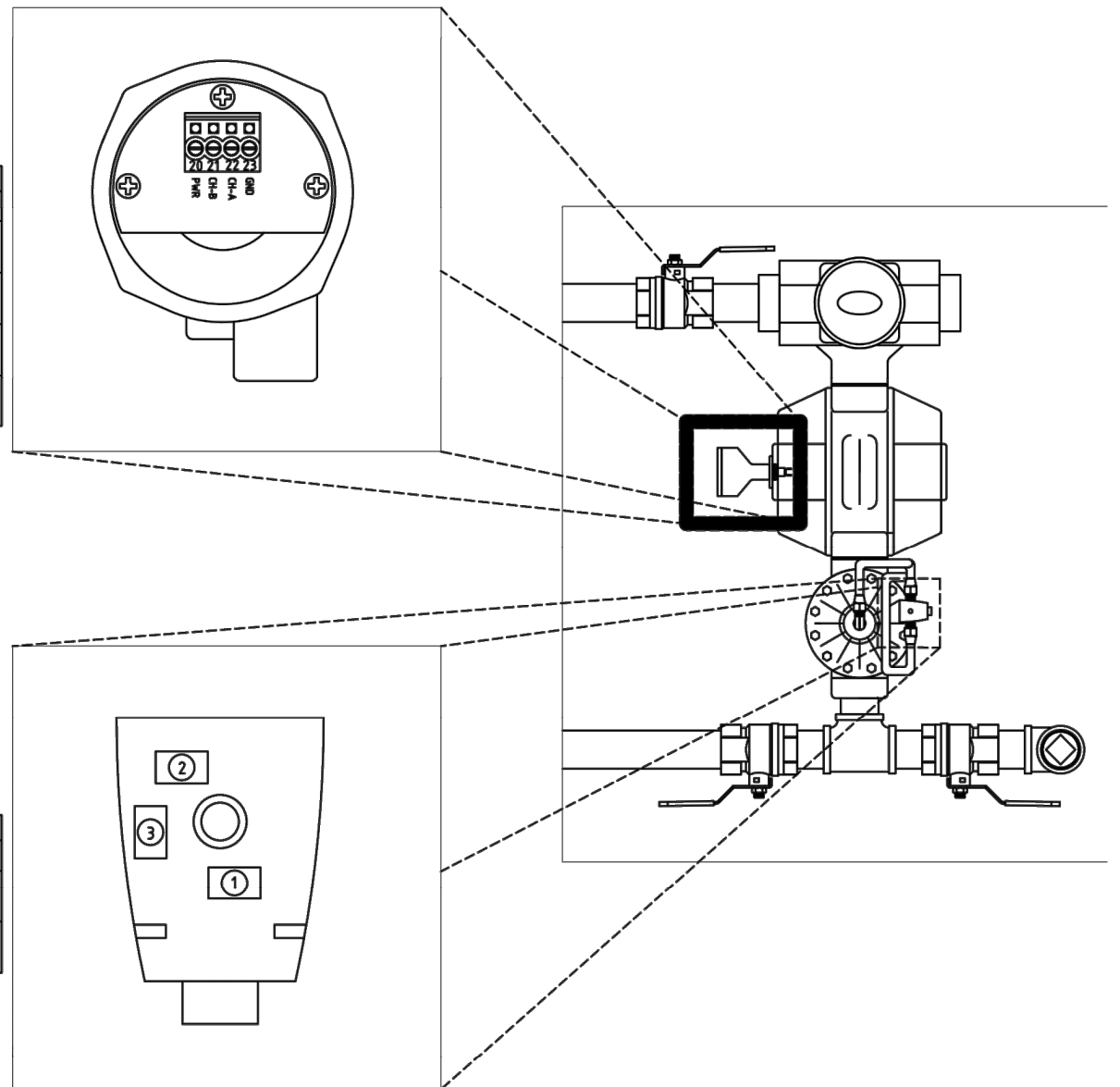
**FILE NUMBER**  
**T1.2**  
ISSUED FOR CONSTRUCTION



Terminal	Signal	Notes
1	SIGNAL A	Tank 1
2	SIGNAL B	Tank 1
3	COMMON	Tank 1
4	12 VDC+	Tank 1
5	SIGNAL A	Tank 2
6	SIGNAL B	Tank 2
7	COMMON	Tank 2
8	12 VDC+	Tank 2
9	SIGNAL A	Tank 3
10	SIGNAL B	Tank 3
11	COMMON	Tank 3
12	12 VDC+	Tank 3
13	CLOSE	Tank 3
14	COMMON / NEUTRAL	Tank 3
15	OPEN	Tank 3
16	CLOSE	Tank 3
17	COMMON / NEUTRAL	Tank 3
18	OPEN	Tank 3
19	CLOSE	Tank 3
20	COMMON / NEUTRAL	Tank 3
21	OPEN	Tank 3
22	CLOSE	Tank 3
23	CLOSE POWER	Tank 3
24	OPEN POWER	Tank 3
25	OPENED	Tank 3
26	CLOSE	Tank 3
27	CLOSE POWER	Tank 3
28	OPEN POWER	Tank 3
29	OPENED	Tank 3
30	CLOSE	Tank 3
31	CLOSE POWER	Tank 3
32	OPEN POWER	Tank 3
33	OPENED	Tank 3
34	TO SWITCH (110V)	Tank 3
35	FROM SWITCH (110V)	Tank 3
36	TO SWITCH (110V)	Tank 3
37	FROM SWITCH (110V)	Tank 3
38	TO SWITCH (110V)	Tank 3
39	FROM SWITCH (110V)	Tank 3
40	TO SWITCH (110V)	Tank 3
41	FROM SWITCH (110V)	Tank 3
42	TO SWITCH (110V)	Tank 3
43	FROM SWITCH (110V)	Tank 3
44	TO SWITCH (110V)	Tank 3
45	FROM SWITCH (110V)	Tank 3
46	TO SWITCH (110V)	Tank 3
47	FROM SWITCH (110V)	Tank 3
48	TO SWITCH (110V)	Tank 3
49	FROM SWITCH (110V)	Tank 3
50	TO SWITCH (110V)	Tank 3
51	FROM SWITCH (110V)	Tank 3
52	TO SWITCH (110V)	Tank 3
53	FROM SWITCH (110V)	Tank 3
54	TO SWITCH (110V)	Tank 3
55	FROM SWITCH (110V)	Tank 3
56	TO SWITCH (110V)	Tank 3
57	FROM SWITCH (110V)	Tank 3
58	TO SWITCH (110V)	Tank 3
59	FROM SWITCH (110V)	Tank 3
60	NEUTRAL (110V)	Tank 3

Connection Guide  
LC POD Pulsar  
4-wire 18GA Shielded Cable

Junge Terminal Block	Tank 1	Tank 2	Tank 3
20 PWR	4	8	12
21 CH-B	2	6	10
22 CH-A	1	5	9
23 GND	3	7	11



Connection Guide  
12VDC Solenoid  
2-wire 18GA Shielded Cable

Junge Terminal Block	Tank 1	Tank 2	Tank 3
1-RED	15	18	21
2-BLACK	14	17	20

Connection Guide  
High/Low Level Alarms  
14GA THHN Stranded Wire

TLS 450 UOHM	Junge Terminal Block	High Level	Low Level
1 - Out	35	Tank 1	Tank 3
2 - Out	37	Tank 2	Tank 3
3 - Out	39	Tank 1	Tank 3
4 - Out	47	Tank 2	Tank 3

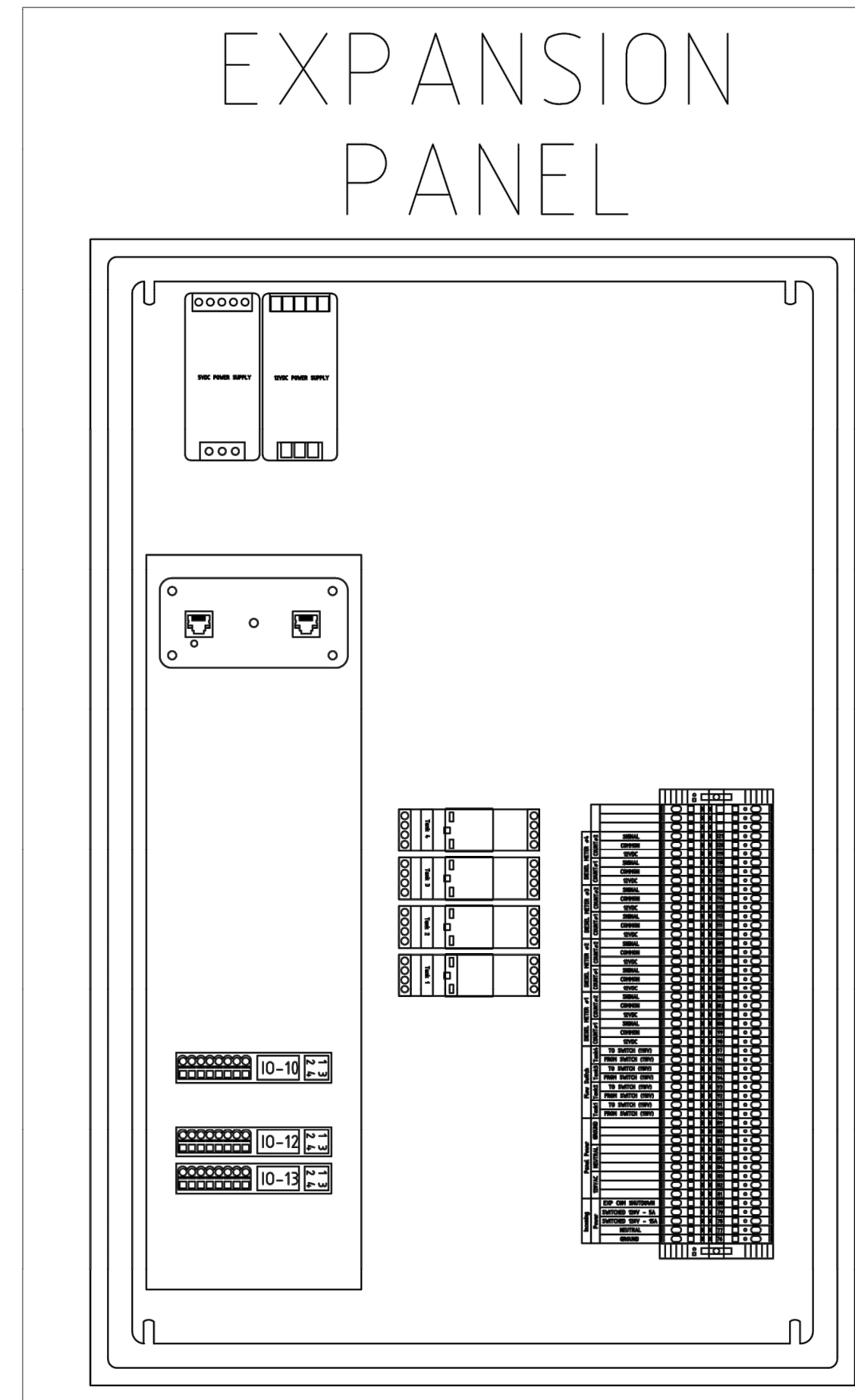
### Passive system wiring

The Standard Bio Blender always needs to be mounted near the diesel tanks to allow the transport driver to enter drop quantities. The ideal location for the passive panels is also at or near the diesel tanks. This allows for personnel to observe status of blending along with startup and service issues. The passive system may be mounted in the site electrical room. The amount of conduit and wiring is greatly increased and operational testing is more difficult. Depending on the location of the Junge panels, diesel turbine meters and bio meters conduit number routing may vary.

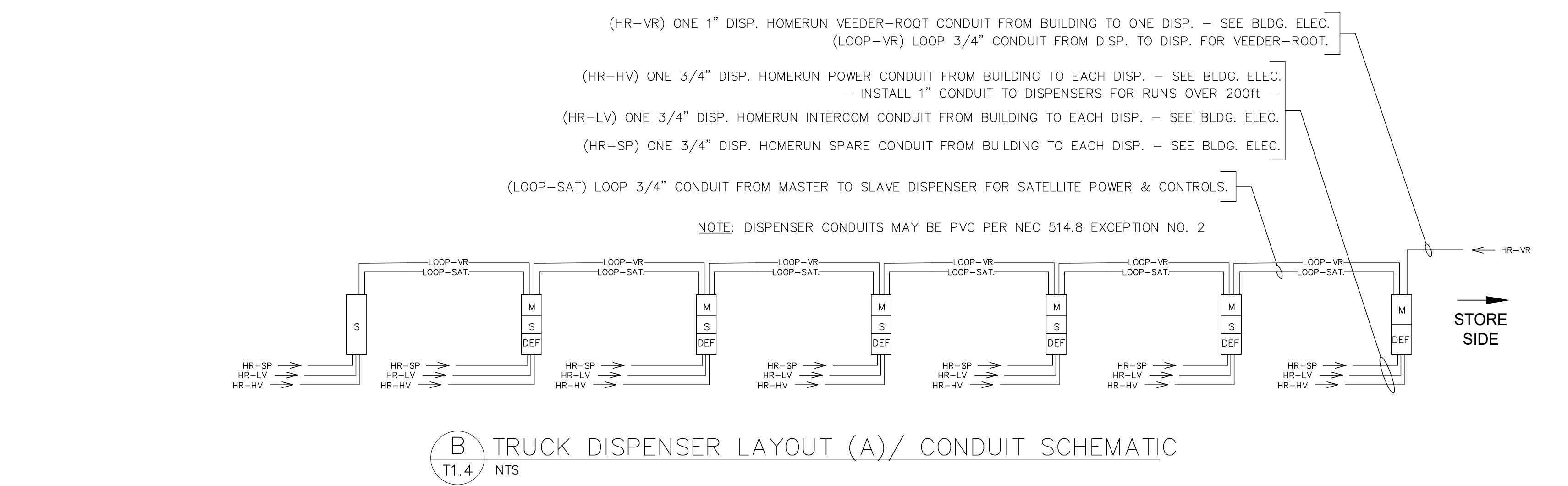
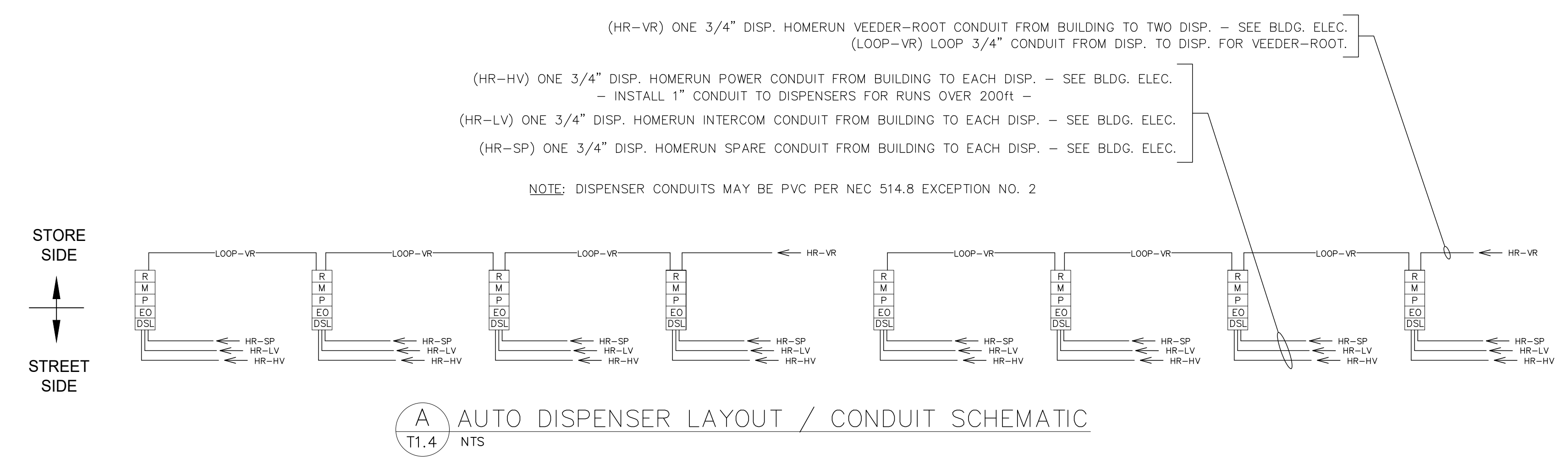
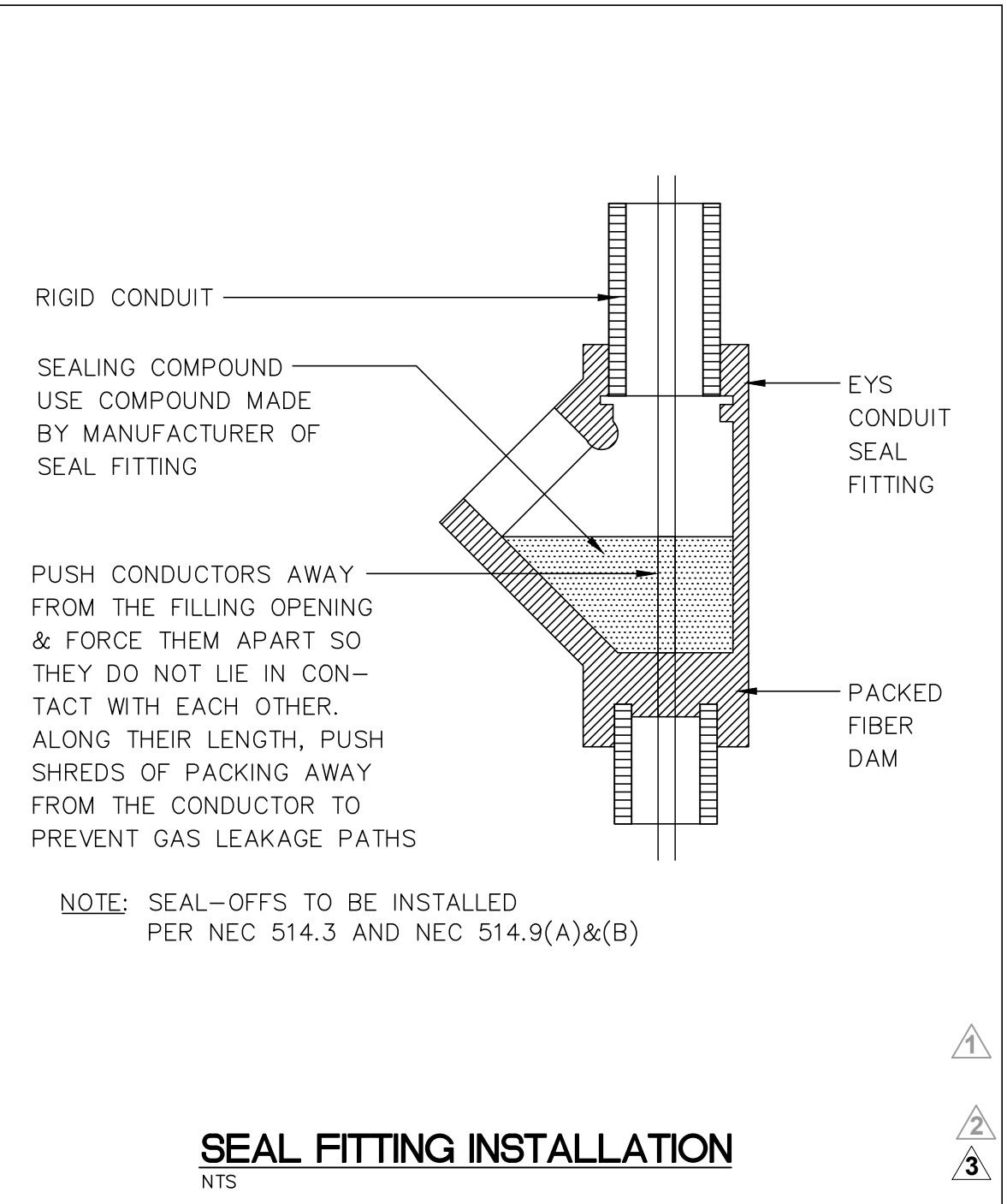
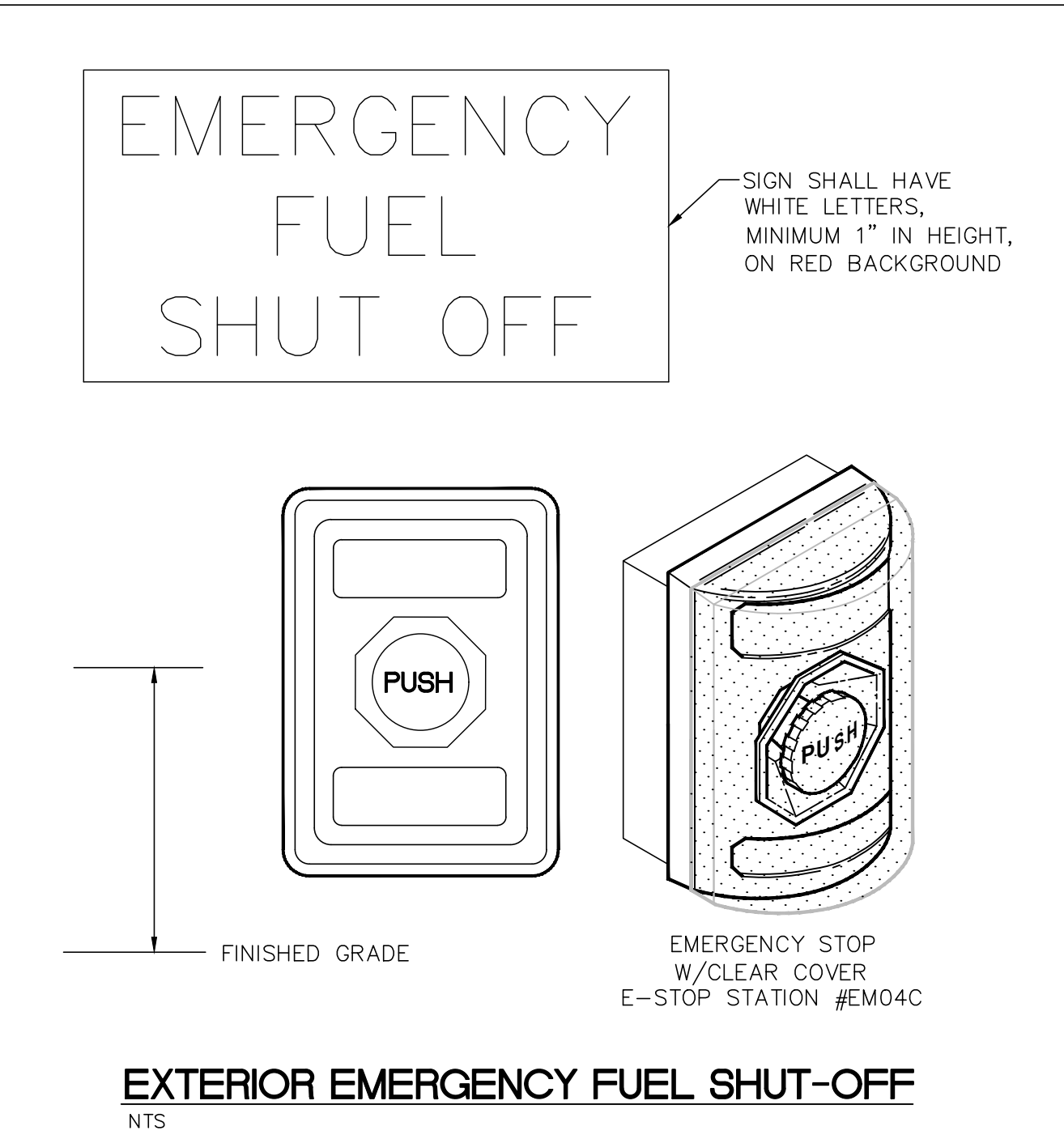
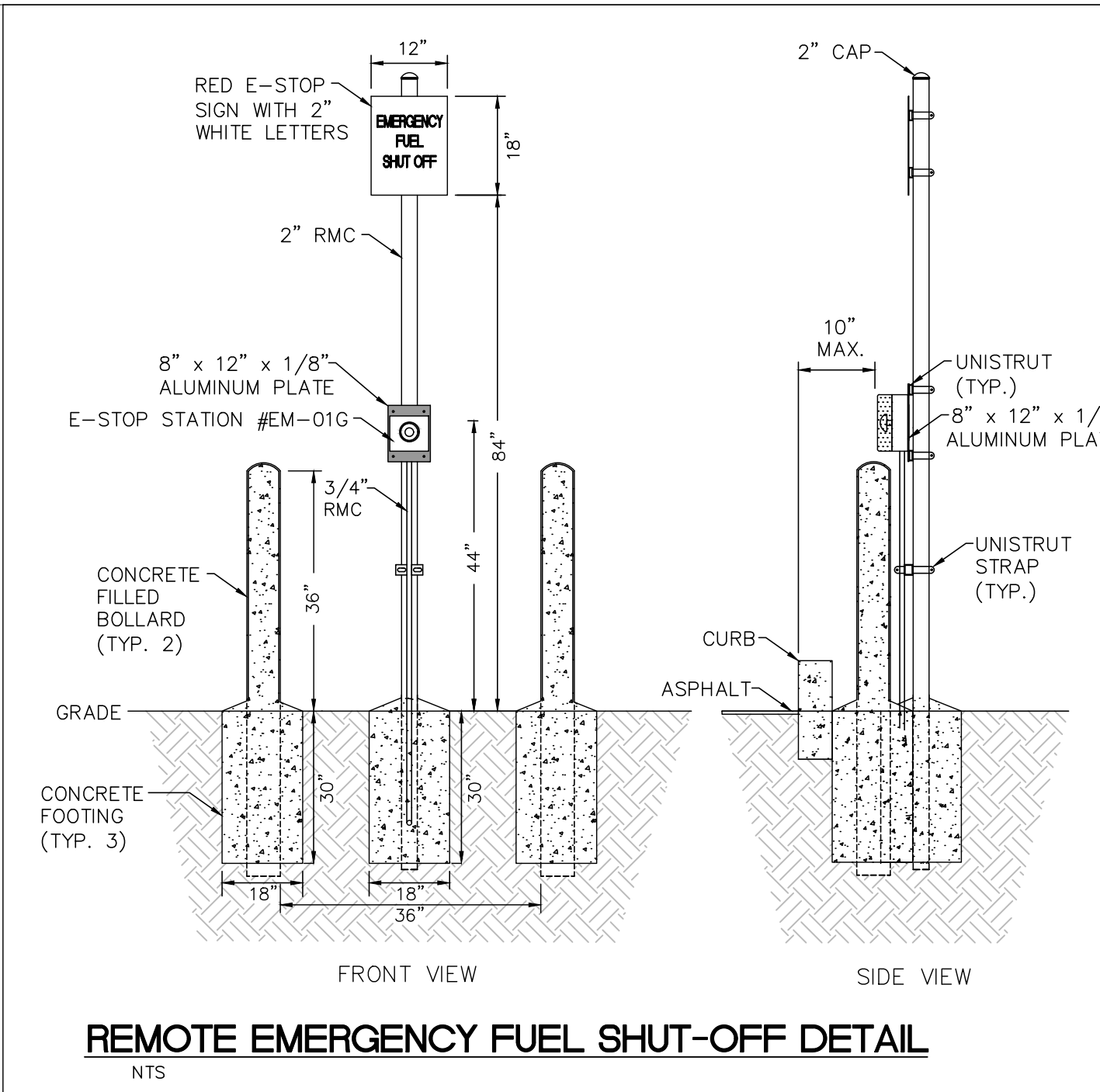
With a flip of a switch the passive system can also revert back to the standard system if needed.

The Junge Passive Bio Blender requires the following wiring connections:

- #1 System power. 120vac
- #2 A tank monitor high level relay output for each diesel tank and a low level relay output for the bio tank. A single 120vac wire that is switched power is to be connected from the Junge and looped to all relay commons. A wire from each of the diesel high and bio low normally open contacts are returned to Junge panel.
- #3 One 120vac bio hook signal back to tank monitor for pump motor activation and pressure line monitoring.
- #4 One Cat 5 cable from Junge panel to the sites network switch. Along with transaction data to FTP site the printer also receives transaction data thru the network switch.
- #5 Each bio meter requires a 18 gauge 4 conductor shielded cable for the Pod (Pulse Output Device) and a 18 gauge 2 Conductor shielded cable for the 12vdc solenoid valve. These DC cables can be routed in the same conduit.
- #6 Each diesel 4" turbine meter requires 2-3 conductor shielded cables. If located in the same sump with the bio meter these cables can be routed with the other Dc cables.
- #7 Each diesel remote fill line also has a 120vac flow switch. The flow switch requires 2-14 gauge wires and a ground. These wires need to be in a separate conduit from any Dc cables.



Terminal	Signal	Notes
1	SIGNAL	DIESEL METER #1
2	COMMON	DIESEL METER #1
3	12VDC	DIESEL METER #1
4	SIGNAL	DIESEL METER #2
5	COMMON	DIESEL METER #2
6	12VDC	DIESEL METER #2
7	SIGNAL	DIESEL METER #3
8	COMMON	DIESEL METER #3
9	12VDC	DIESEL METER #3
10	SIGNAL	DIESEL METER #4
11	COMMON	DIESEL METER #4
12	12VDC	DIESEL METER #4
13	TO SWITCH (110V)	Tank 1
14	FROM SWITCH (110V)	Tank 1
15	TO SWITCH (110V)	Tank 2
16	FROM SWITCH (110V)	Tank 2
17	TO SWITCH (110V)	Tank 3
18	FROM SWITCH (110V)	Tank 3
19	TO SWITCH (110V)	Tank 4
20	FROM SWITCH (110V)	Tank 4
21	TO SWITCH (110V)	Tank 1
22	FROM SWITCH (110V)	Tank 1
23	TO SWITCH (110V)	Tank 2
24	FROM SWITCH (110V)	Tank 2
25	TO SWITCH (110V)	Tank 3
26	FROM SWITCH (110V)	Tank 3
27	TO SWITCH (110V)	Tank 4
28	FROM SWITCH (110V)	Tank 4
29	TO SWITCH (110V)	Tank 1
30	FROM SWITCH (110V)	Tank 1
31	TO SWITCH (110V)	Tank 2
32	FROM SWITCH (110V)	Tank 2
33	TO SWITCH (110V)	Tank 3
34	FROM SWITCH (110V)	Tank 3
35	TO SWITCH (110V)	Tank 4
36	FROM SWITCH (110V)	Tank 4
37	TO SWITCH (110V)	Tank 1
38	FROM SWITCH (110V)	Tank 1
39	TO SWITCH (110V)	Tank 2
40	FROM SWITCH (110V)	Tank 2
41	TO SWITCH (110V)	Tank 3
42	FROM SWITCH (110V)	Tank 3
43	TO SWITCH (110V)	Tank 4
44	FROM SWITCH (110V)	Tank 4
45	TO SWITCH (110V)	Tank 1
46	FROM SWITCH (110V)	Tank 1
47	TO SWITCH (110V)	Tank 2
48	FROM SWITCH (110V)	Tank 2
49	TO SWITCH (110V)	Tank 3
50	FROM SWITCH (110V)	Tank 3
51	TO SWITCH (110V)	Tank 4
52	FROM SWITCH (110V)	Tank 4
53	TO SWITCH (110V)	Tank 1
54	FROM SWITCH (110V)	Tank 1
55	TO SWITCH (110V)	Tank 2
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57	TO SWITCH (110V)	Tank 3
58	FROM SWITCH (110V)	Tank 3
59	TO SWITCH (110V)	Tank 4
60	FROM SWITCH (110V)	Tank 4
61	TO SWITCH (110V)	Tank 1
62	FROM SWITCH (110V)	Tank 1
63	TO SWITCH (110V)	Tank 2
64	FROM SWITCH (110V)	Tank 2
65	TO SWITCH (110V)	Tank 3
66	FROM SWITCH (110V)	Tank 3
67	TO SWITCH (110V)	Tank 4
68	FROM SWITCH (110V)	Tank 4
69	TO SWITCH (110V)	Tank 1
70	FROM SWITCH (110V)	Tank 1
71	TO SWITCH (120V - SA)	SWITCHED 120V
72	SWITCHED 120V - SA	SWITCHED 120V
73	NEUTRAL	SWITCHED 120V
74	GROUND	SWITCHED 120V
75	EXP COIL SHUTDOWN	SWITCHED 120V
76	TO SWITCH (110V)	SWITCHED 120V
77	FROM SWITCH (110V)	SWITCHED 120V
78	TO SWITCH (110V)	SWITCHED 120V
79	FROM SWITCH (110V)	SWITCHED 120V
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241	FROM SWITCH (110V)	SWITCHED 120V
242	TO SWITCH (110V)	SWITCHED 120V
243	FROM SWITCH (110V)	SWITCHED 120V
244	TO SWITCH (110V)	SWITCHED 120V
245		



DISPENSER LEGEND	
HV	- DISPENSER POWER
LV	- DISPENSER INTERCOM
VR	- DISPENSER VEEDER-ROOT
SP	- DISPENSER SPARE
FU	- DISPENSER FUTURE USE
HR	- HOMERUN FROM BUILDING
SAT	- MASTER/SLAVE LOOP

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**DESIGN PROFESSIONALS**

**MDM**  
PLANS PREPARED BY:  
MDM  
engineering • environmental • construction  
2151 W HILLSBORO BLVD. STE 401, DEERFIELD BEACH, FL 33442  
(954) 927-5070  
FL CA 0004857

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE

**RaceTrac**  
RACETRAC PETROLEUM, INC.  
200 GALLERIA PARKWAY SE  
SUITE 900  
ATLANTA, GEORGIA 30339  
(770) 431-7600

**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH FLORIDA**  
8990 20th STREET  
VERO BEACH, FLORIDA

**RACETRAC PROJECT NUMBER**  
**1422**

**PLAN SERIES**  
**2011 BR-RH-M90 0801**

**PLAN MODIFICATION NOTICE**

NO MODIFICATIONS APPLIED  
 MODIFICATIONS APPLY

**SPB NO. N/A DATE N/A**

**STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.**

**PROFESSIONAL SEAL**

DAIMIAN D. LESLIE  
FL REG # 73113

**PROJECT NUMBER**  
**19252**

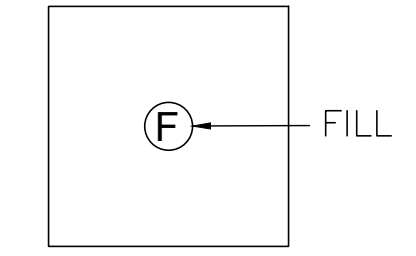
**SHEET TITLE & NUMBER**  
**DISPENSER ELECTRICAL LAYOUT**

**FILE NUMBER**  
**T1.3**

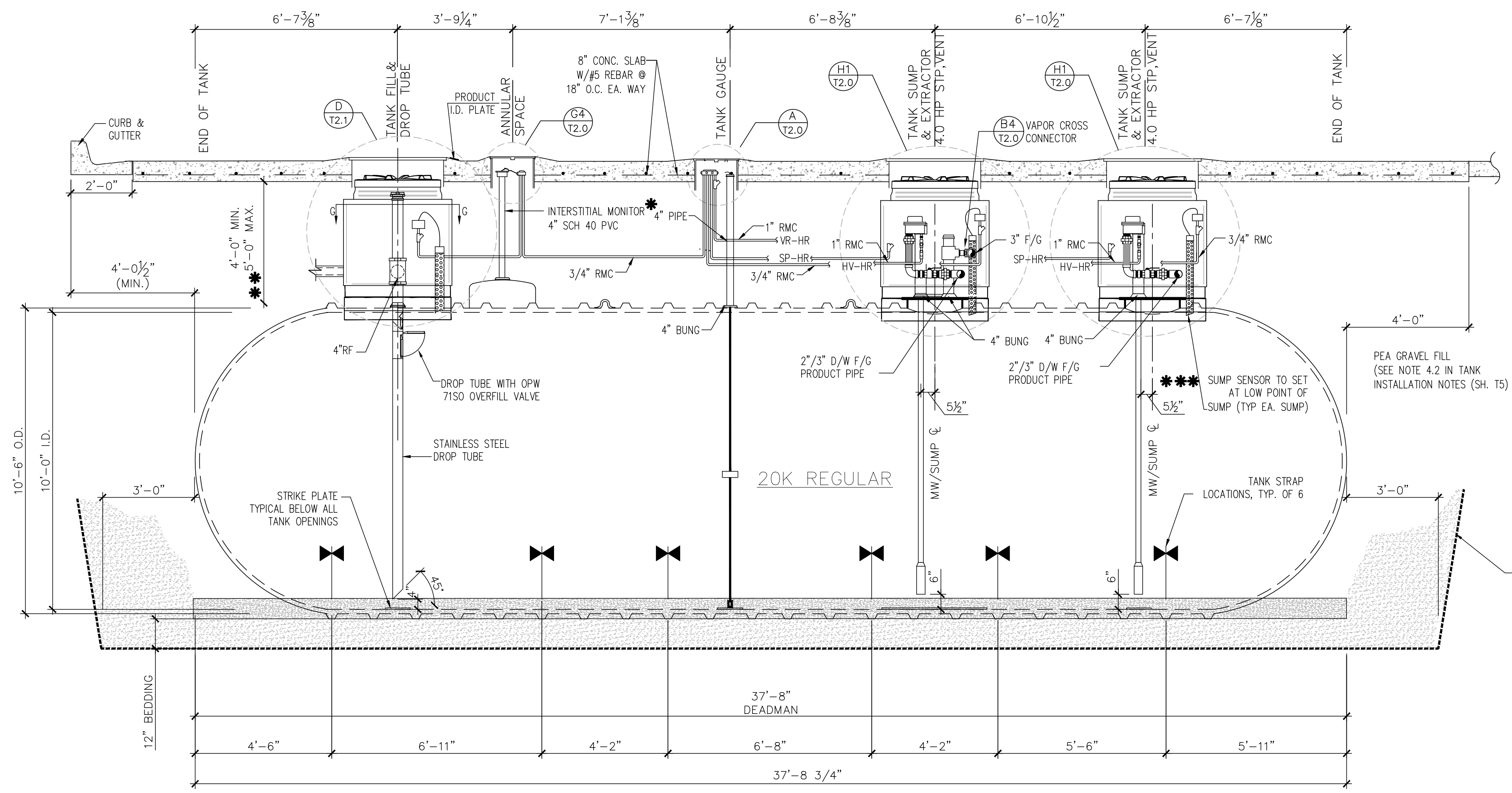
ISSUED FOR CONSTRUCTION



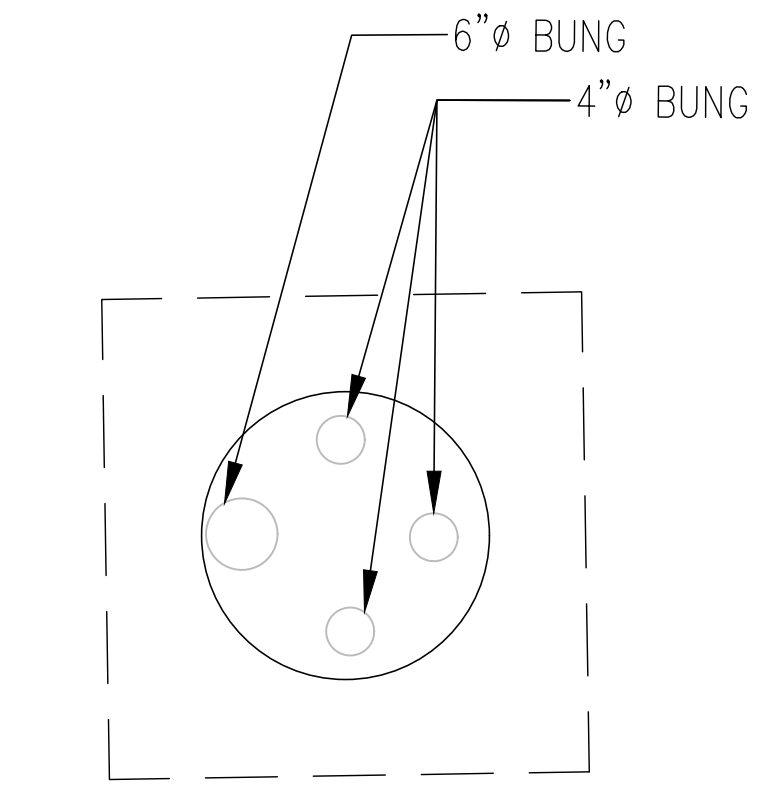
- \* ALL RISER PIPES & FITTINGS ARE TO BE COATED WITH A BITUMINOUS COATING AND WRAPPED W/3M TAPE FOR CORROSION PROTECTION---SEE NOTES SHEET RT-T4.0, T4.1, T5.0
- \*\* CONFIRM BURIAL DEPTH WITH RACETRAC PROJECT MANAGER
- \*\*\* ALL TANKS SUMP SENSORS TO SET @ LOW POINT OF SUMP



FILL SUMP PLAN VIEW  
NTS



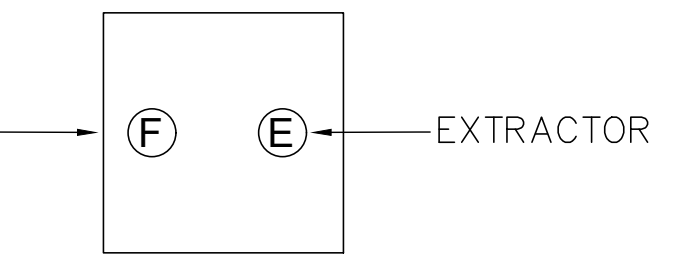
**A** LONGITUDINAL TANK SECTION  
T1.4 20,000 GALLON TANK 3/8"=1'-0" 1 2 3



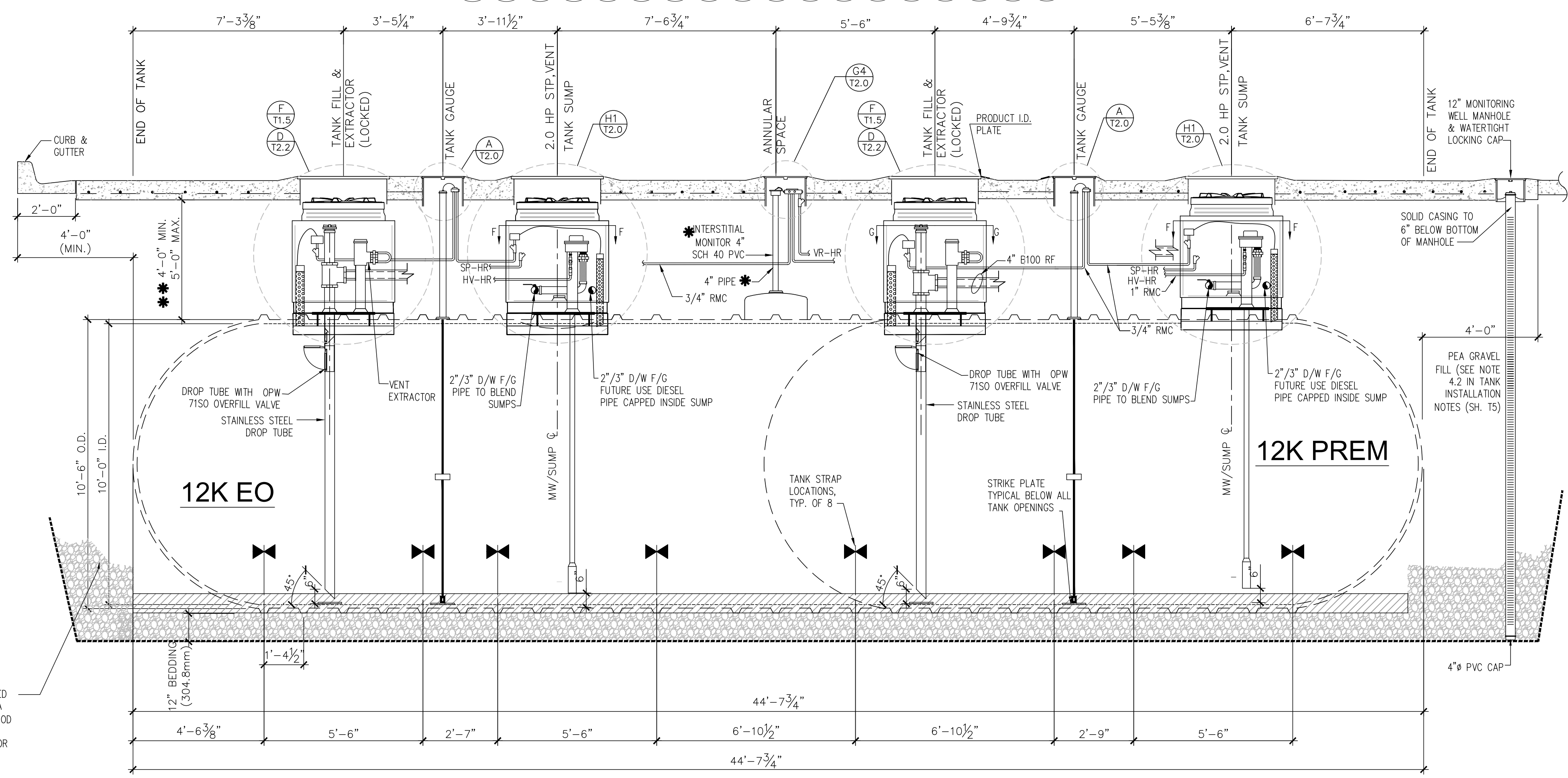
TYP TANK MANWAY  
NTS

EXCAVATION TO BE BENCHMARKED IN ACCORDANCE WITH OSHA 29 CFR 1926-950(P) METHOD OF COMPLIANCE TO BE DETERMINED BY CONTRACTOR

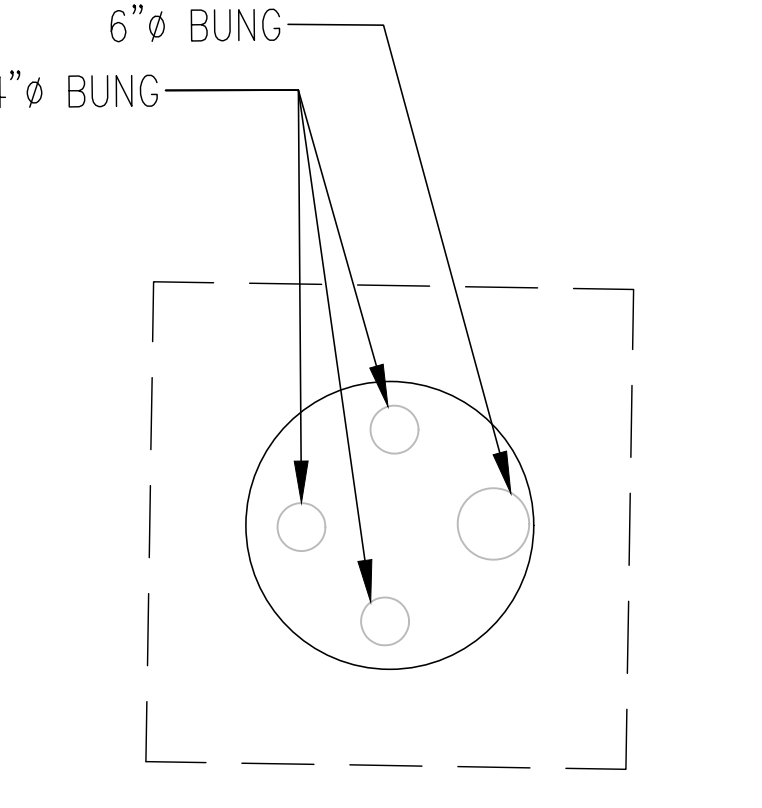
- \* ALL RISER PIPES & FITTINGS ARE TO BE COATED WITH A BITUMINOUS COATING AND WRAPPED W/3M TAPE FOR CORROSION PROTECTION---SEE NOTES SHEET RT-T4.0, T4.1, T5.0
- \*\* CONFIRM BURIAL DEPTH WITH RACETRAC PROJECT MANAGER
- \*\*\* ALL TANKS SUMP SENSORS TO SET @ LOW POINT OF SUMP



SUMP SECTION  
NTS



**B** LONGITUDINAL TANK SECTION  
T1.4 24,000 GALLON TANK 3/8"=1'-0" 1 2 3



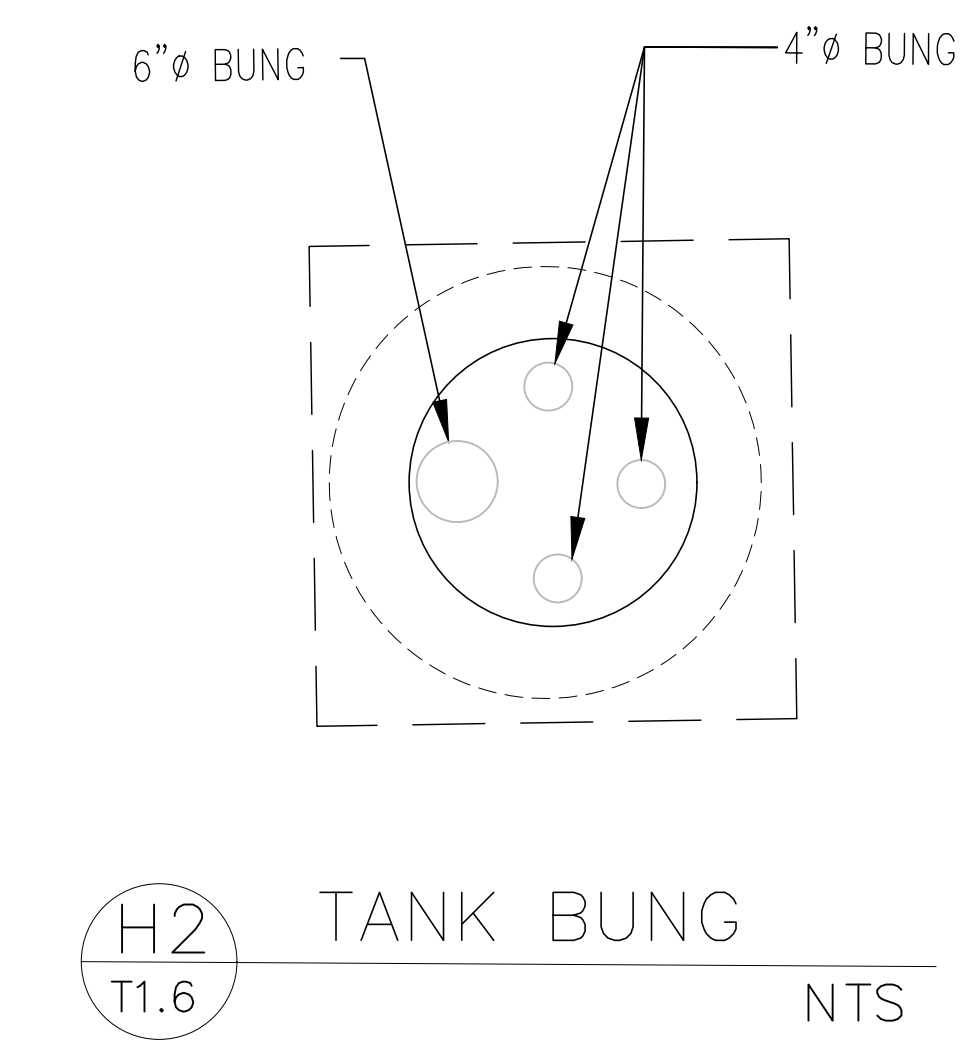
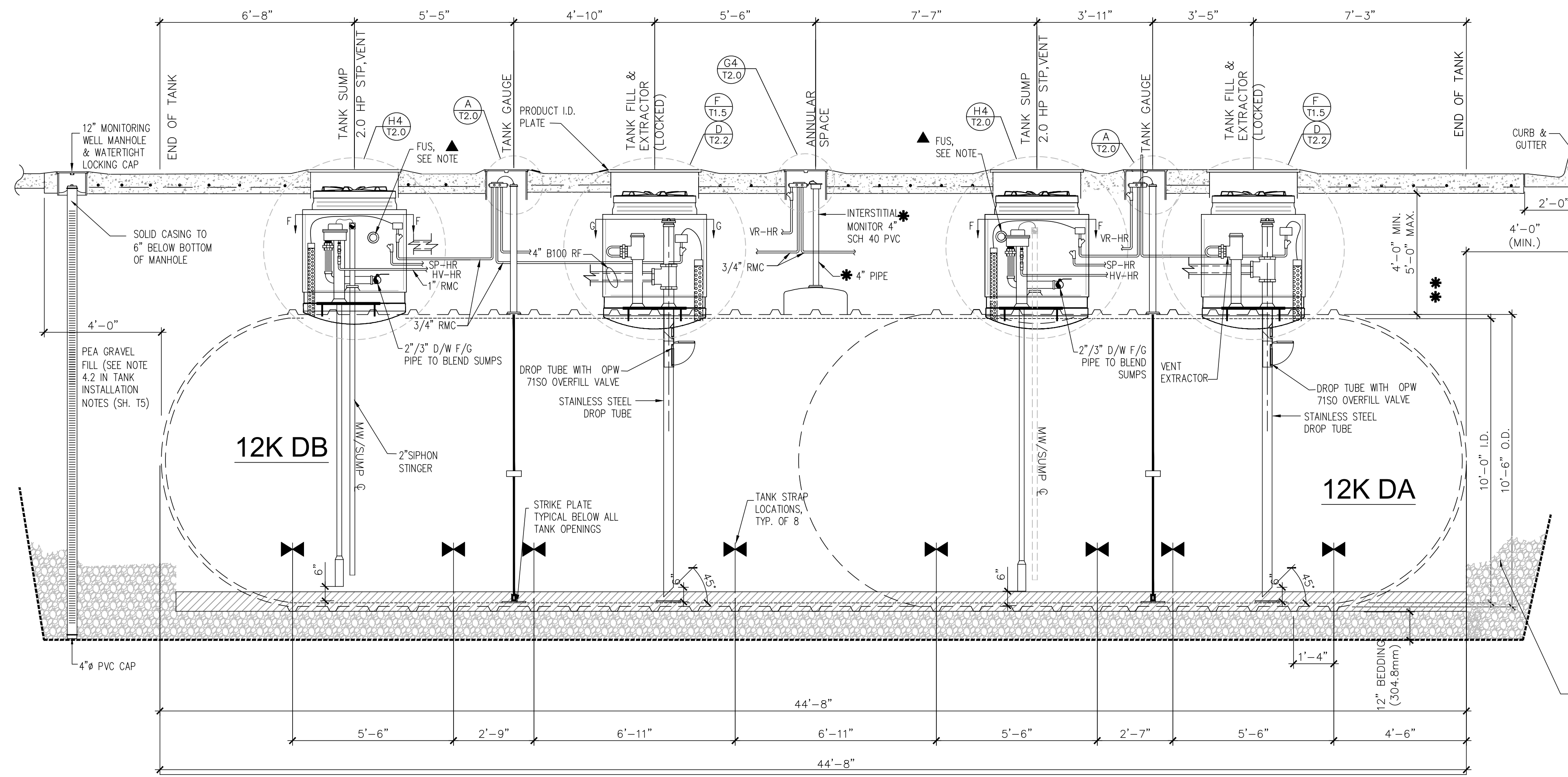
TYP TANK MANWAY  
NTS

EXCAVATION TO BE BENCHMARKED IN ACCORDANCE WITH OSHA 29 CFR 1926-950(P) METHOD OF COMPLIANCE TO BE DETERMINED BY CONTRACTOR

**ISSUE/REVISION RECORD**

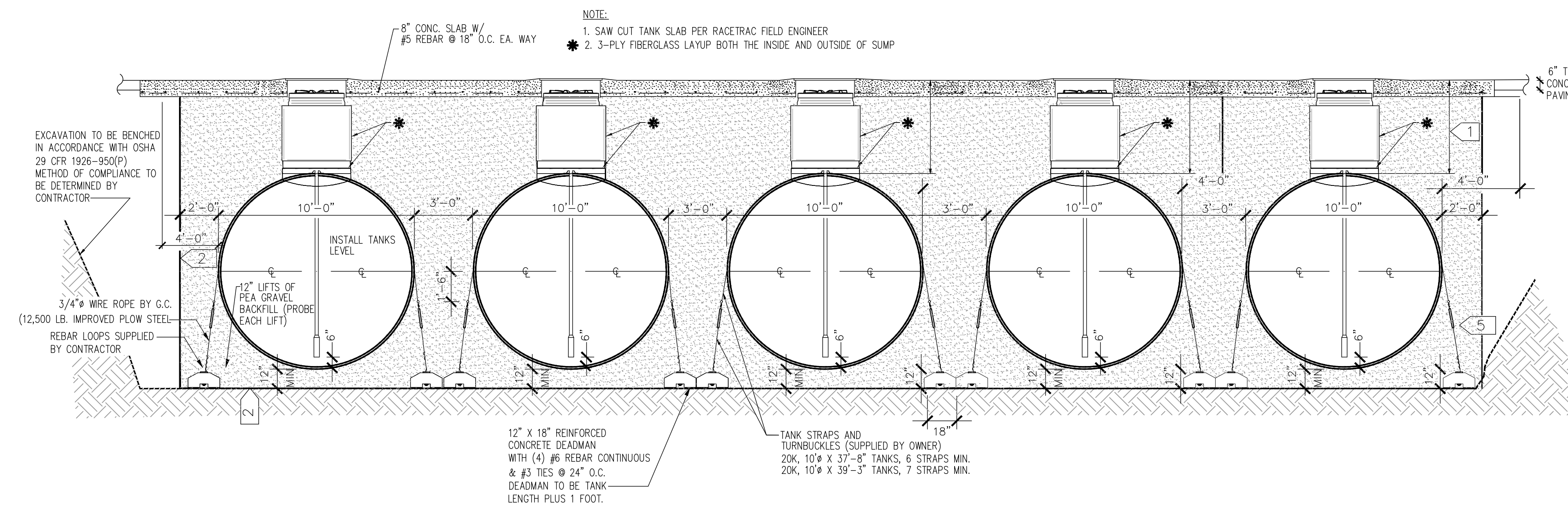
DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE
	REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE





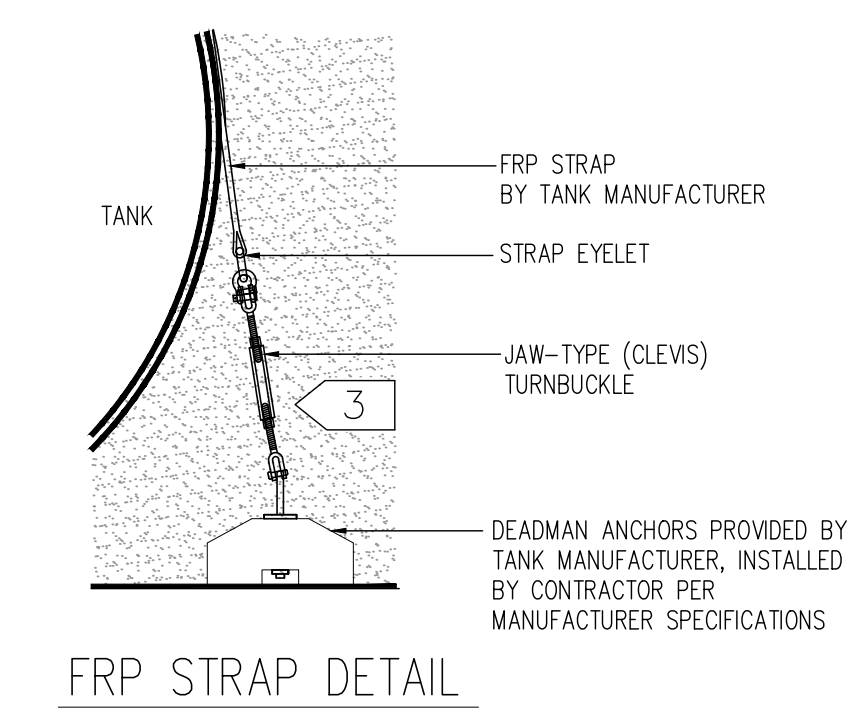
▲ SIPHON NOTES:  
 FUTURE USE 2 7/8" D/W F/G SIPHON  
 NOT SHOWN FOR CLARITY.  
 SEE SHEET T-1.0 FOR SUMP CONNECTION  
 & ROUTING. ALL FUS & ACTIVE SIPHON PIPING  
 TO SLOPE MIN. 1/8" / FT BETWEEN SUMPS,  
 AND TERMINATE MIN. 8" INSIDE SUMP

**E LONGITUDINAL TANK SECTION**  
 T1.6 24,000 GALLON TANK 3/8"=1'-0"



- 1 4" MINIMUM COVER. DEPTH TO INCREASE AS REQUIRED TO MAINTAIN 1/8" PER FOOT FALL ON VAPOR RECOVERY LINE FROM ISLAND TO MANIFOLD.
- 2 ALL TANK PITS AND PIPE TRENCHES TO BE LINED WITH FILTER FABRIC CLOTHS AND LAPPED OVER THE TOP OF BURIED TANKS AND PIPES PRIOR TO BACKFILLING.
- 3 UNIFORMLY TIGHTEN EACH ANCHOR STRAP WITH TURNBUCKLES STRAP MUST BE SNUG WITHOUT CAUSING TANK DEFLECTION. CHECK DEFLECTION BEFORE AND AFTER SECURING STRAPS. APPLY HEAVY BITUMINOUS COATING TO TURNBUCKLES AND ATTACHMENTS TO PREVENT CORROSION.

**F TYPICAL TANKFIELD SECTION AND ANCHORING DETAILS**  
 T1.6 1/4"=1'-0"



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 INC. IS PROHIBITED. 2011 RACETRAC  
 PETROLEUM INC.

**DESIGN PROFESSIONALS**

**MDM**  
 PLANS PREPARED BY:  
**MDM**  
 engineering • environmental • construction  
 2151 W HILLSBORO BLVD. STE. 401, DEERFIELD BEACH, FL 33442  
 FL CA 004857 (954) 927-3076

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE
	REMOVED ONE TANK & REVISE PIPING
10/14/21	CLIENT GLOBAL UPDATE
01/24/22	CLIENT GLOBAL UPDATE

**RaceTrac**  
 RACETRAC PETROLEUM, INC.  
 200 GALLERIA PARKWAY SE  
 SUITE 900  
 ATLANTA, GEORGIA 30339  
 (770) 431-7600

**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH FLORIDA**  
 8990 20th STREET  
 VERO BEACH, FLORIDA

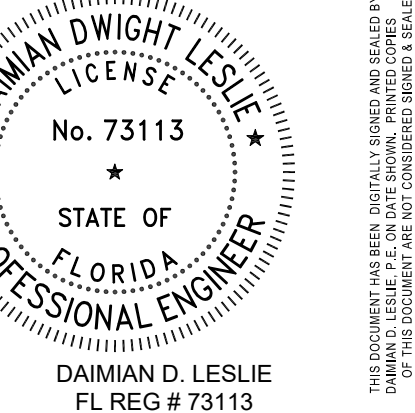
**RACETRAC PROJECT NUMBER**  
**1422**

**PLAN SERIES**  
**2011 BR-RH-M90 0801**

**PLAN MODIFICATION NOTICE**  
 NO MODIFICATIONS APPLIED  
 MODIFICATIONS APPLY

**SPB NO. N/A DATE N/A**  
 STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

**PROFESSIONAL SEAL**



**PROJECT NUMBER**  
 19252

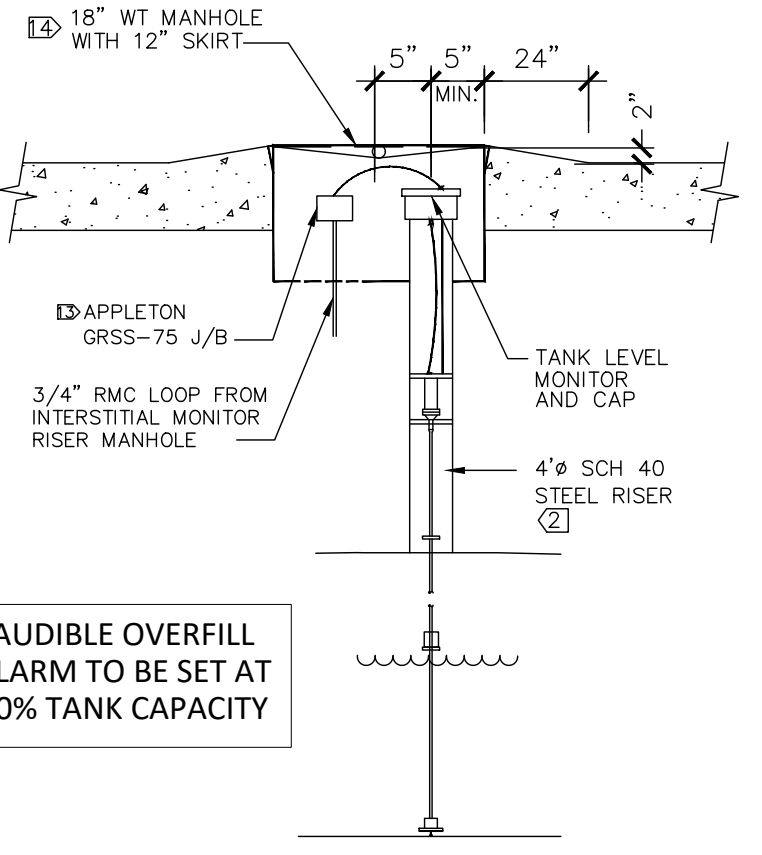
**SHEET TITLE & NUMBER**

**U/G TANK SECTIONS**

**FILE NUMBER**

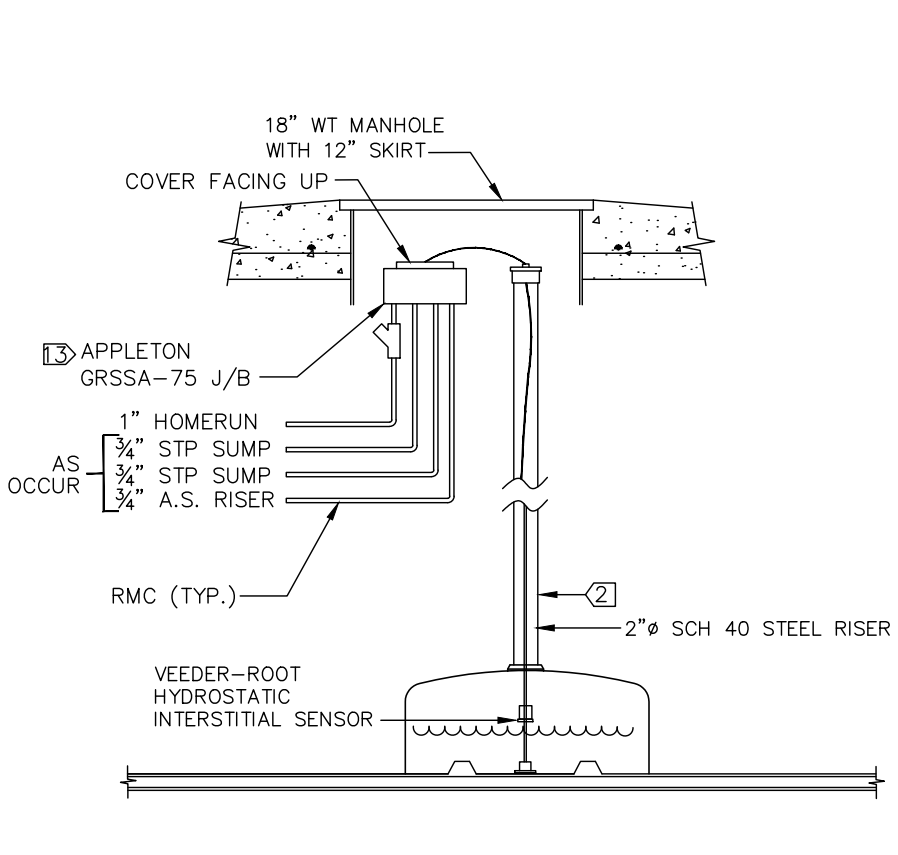
**T1.6**

ISSUED FOR CONSTRUCTION

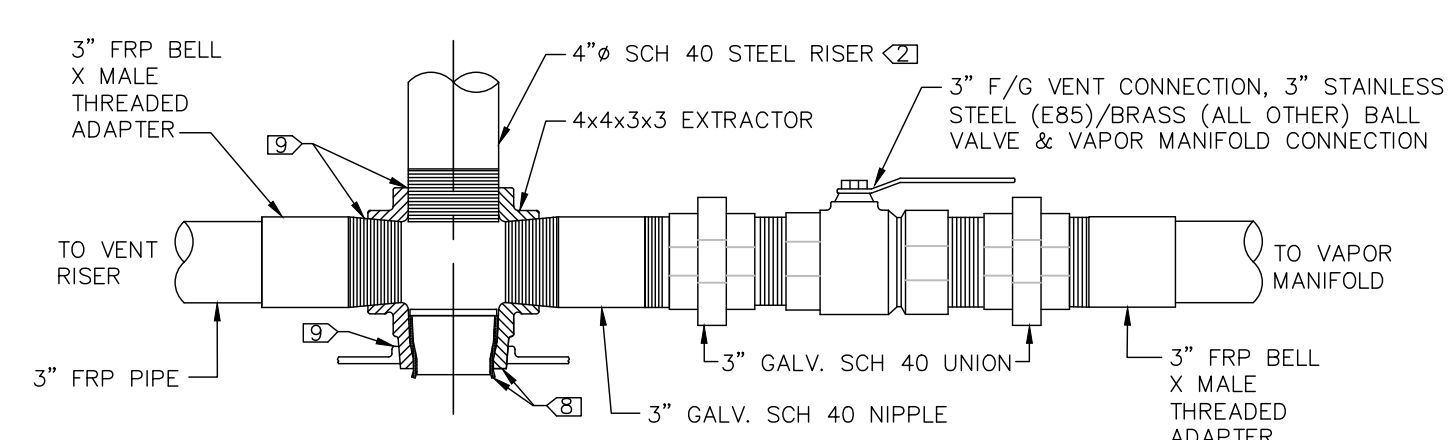


AUDIBLE OVERFILL ALARM TO BE SET AT 90% TANK CAPACITY

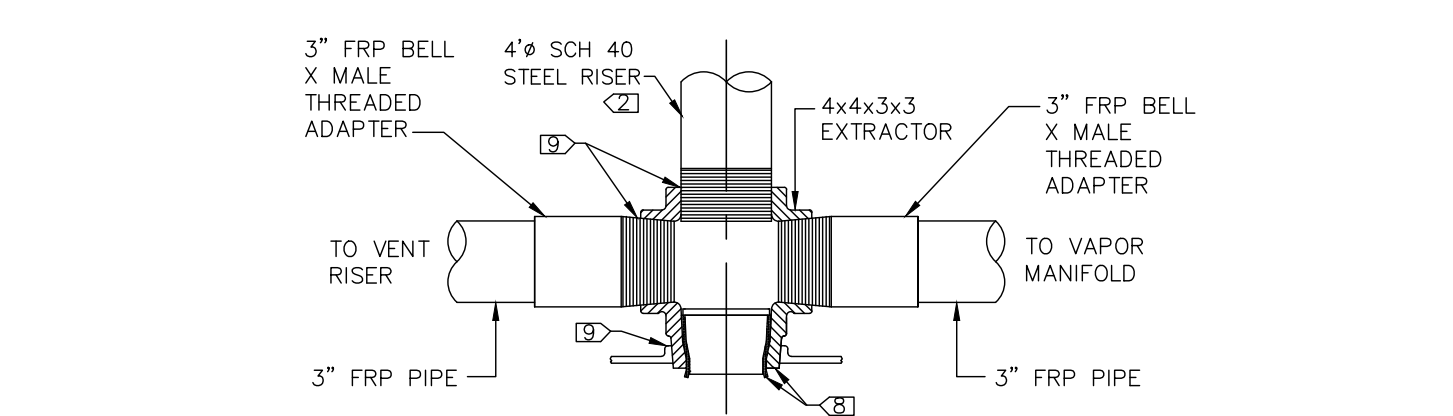
TANK OVERFILL PREVENTION ALARM & TANK LEVEL MONITOR



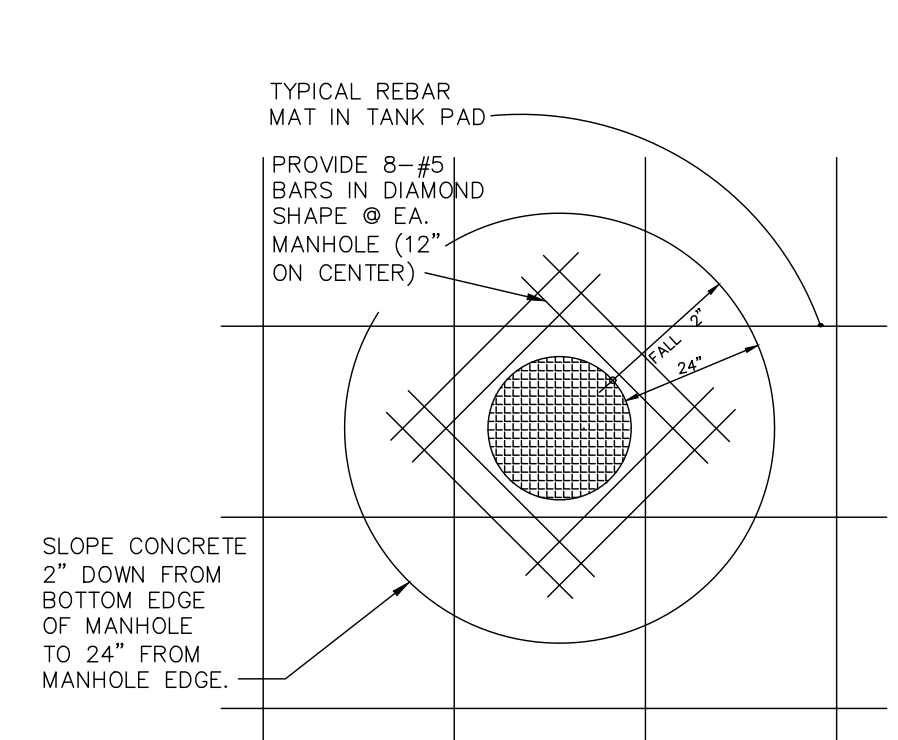
JUST INTERSTITIAL MONITOR



B1 VAPOR CROSS CONNECTOR



B4 VAPOR CROSS CONNECTOR



TYPICAL MANHOLE PLAN

NOTES:  
1. PROVIDE 8-#5 BARS IN DIAMOND SHAPE FOR SUMP PUMP MANHOLES. SEE DETAIL H, THIS PAGE.  
2. TOP OF MANHOLE SLOPE TO MATCH FINISH GRADE SLOPE. CONTACT RACETRAC REPRESENTATIVE PRIOR TO MANHOLE SETUP.

**NOTES:**

- INSTALL IDENTIFICATION MARKER.
- THOROUGHLY HAND CLEAN WITH WIRE BRUSH. APPLY COAL TAR. WRAP WITH TEST 3M TAPE.
- INSTALL GROUNDING CONNECTOR TO RISER.
- ALL REMOTE STAGE 1 VAPOR RECOVERY PIPE AND FITTINGS SHALL BE FRP.
- MAINTAIN 7" MINIMUM COVER BETWEEN SLAB BOTTOM AND TOP OF FRP PIPE/FITTINGS.
- SLOPE @ MINIMUM OF 1/8" PER FOOT
- 4" Ø G.I. NIPPLE, STAGE ONE VR DRY BREAK AND LOCKING CAP. MAINTAIN 1-1/2" TO 2" BETWEEN CAP AND OVERFILL CONTAINER COVER. USE STABILIZER BARS SUPPLIED WITH OVERFILL CONTAINER TO ESTABLISH CORRECT FINISHED ELEVATION.

**\*LEAK DETECTOR SPECIFICATIONS**

MANUFACTURER: VEEDER-ROOT  
TYPE: PRESSURIZED LINE LEAK DETECTOR FOR F.E. PETRO PUMPS  
MODEL NUMBER: 848480-001  
OPERATING TEMP: -25° TO +130°F  
COMPATIBLE FUELS:  
LEADED GASOLINE,  
10% ETHANOL/90% UNLEADED,  
JET FUEL, AVIATION UNLEADED GASOLINE,  
LINE FLOW RATE: 120 GPM MAX 5% METHANOL/95% UNLEADED,  
DESIGN: INTRINSICALLY SAFE DIESEL, KEROSENE.  
OPERATING RANGE: 0-50 PSI  
PROOF PRESSURE: 200 PSI

DO NOT USE THREAD SEALANT ON THREADS COMMON TO CAGE & BASE. WHEN INSTALLING CAGE INTO BASE, LUBRICATE THREADS WITH LIGHT COATING OF GREASE. DO NOT OVERTIGHTEN.

APPLY APPROVED THREAD SEALANT.

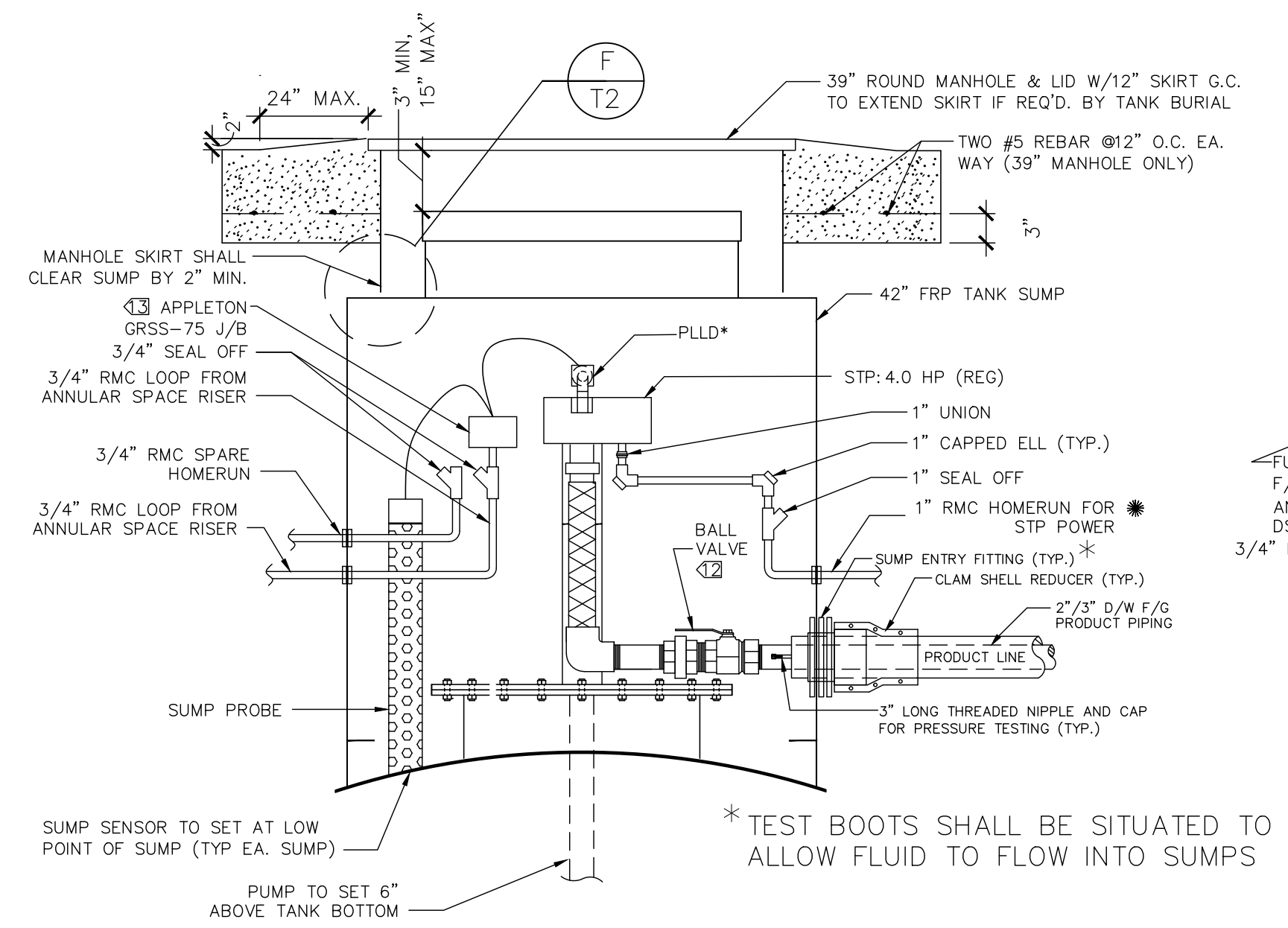
EXPLOSION PROOF BOX MOUNTED SO THAT ACCESS OPENING FACING UP.

SPACE BETWEEN TOP OF CAP AND LID TO BE MIN. 3" CLEAR.

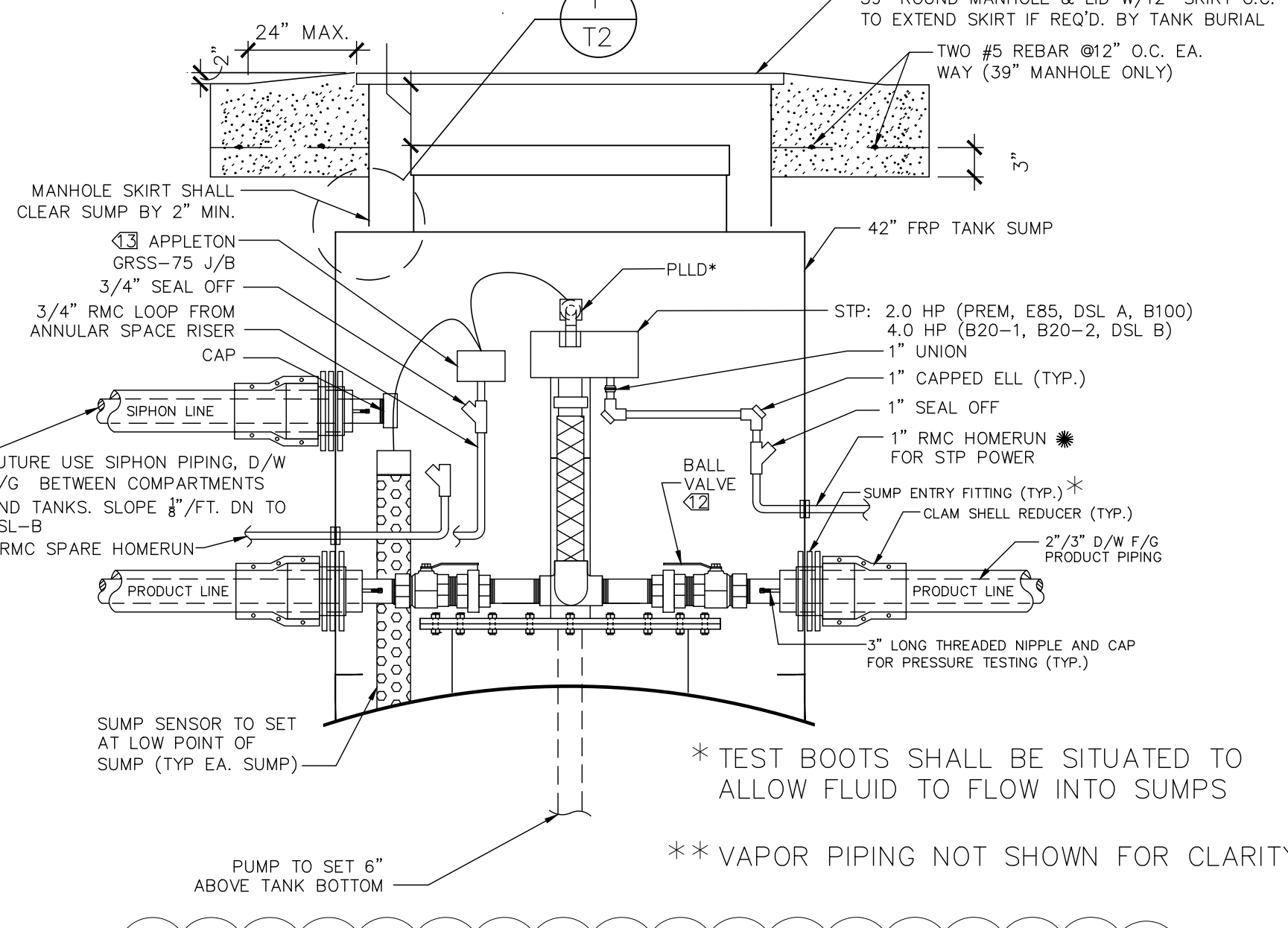
**HYDROSTATIC TIGHTNESS TESTING**  
(AFTER ALL PENETRATIONS HAVE BEEN COMPLETED)

DISPENSER PAN/SUMP & STP SUMPS:  
FILL CHAMBER WITH WATER. MONITOR WATER LEVEL FOR ONE HOUR. INSPECT ALL PENETRATIONS FOR TIGHTNESS. CORRECT ANY LEAKS AND RE-TEST AS REQUIRED.

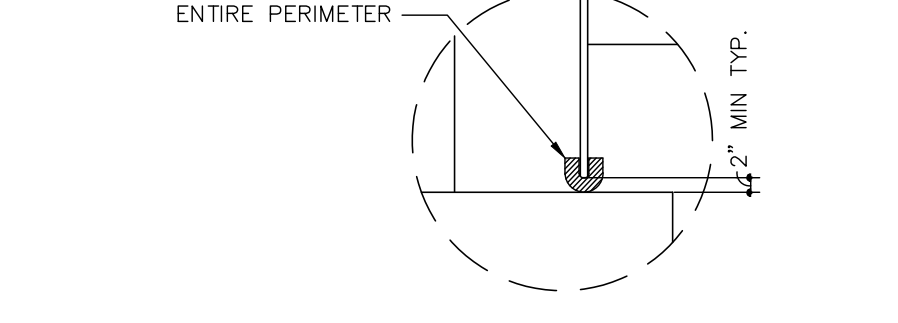
NOTE: OWNER'S ENGINEER SHALL WITNESS TESTING



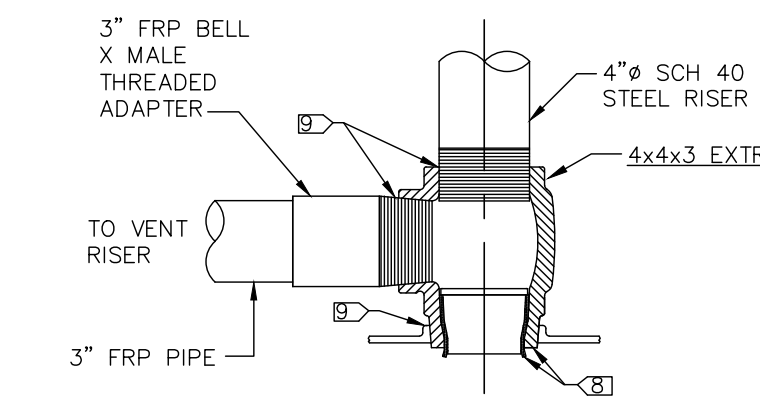
H1 SUBMERGED PUMP SUMP DETAIL (REG, D1, EO, PREM)



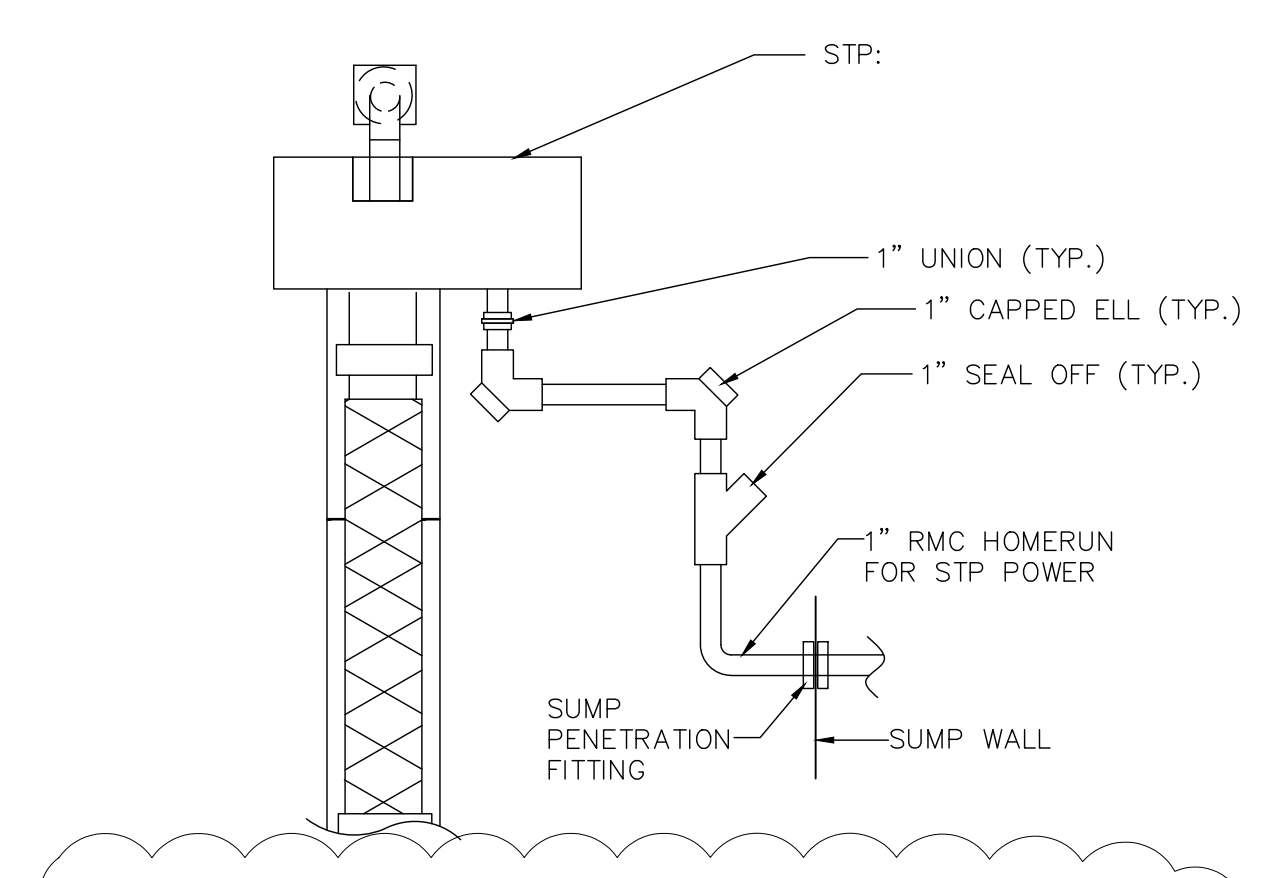
H2 SUBMERGED PUMP SUMP DETAIL (B100)



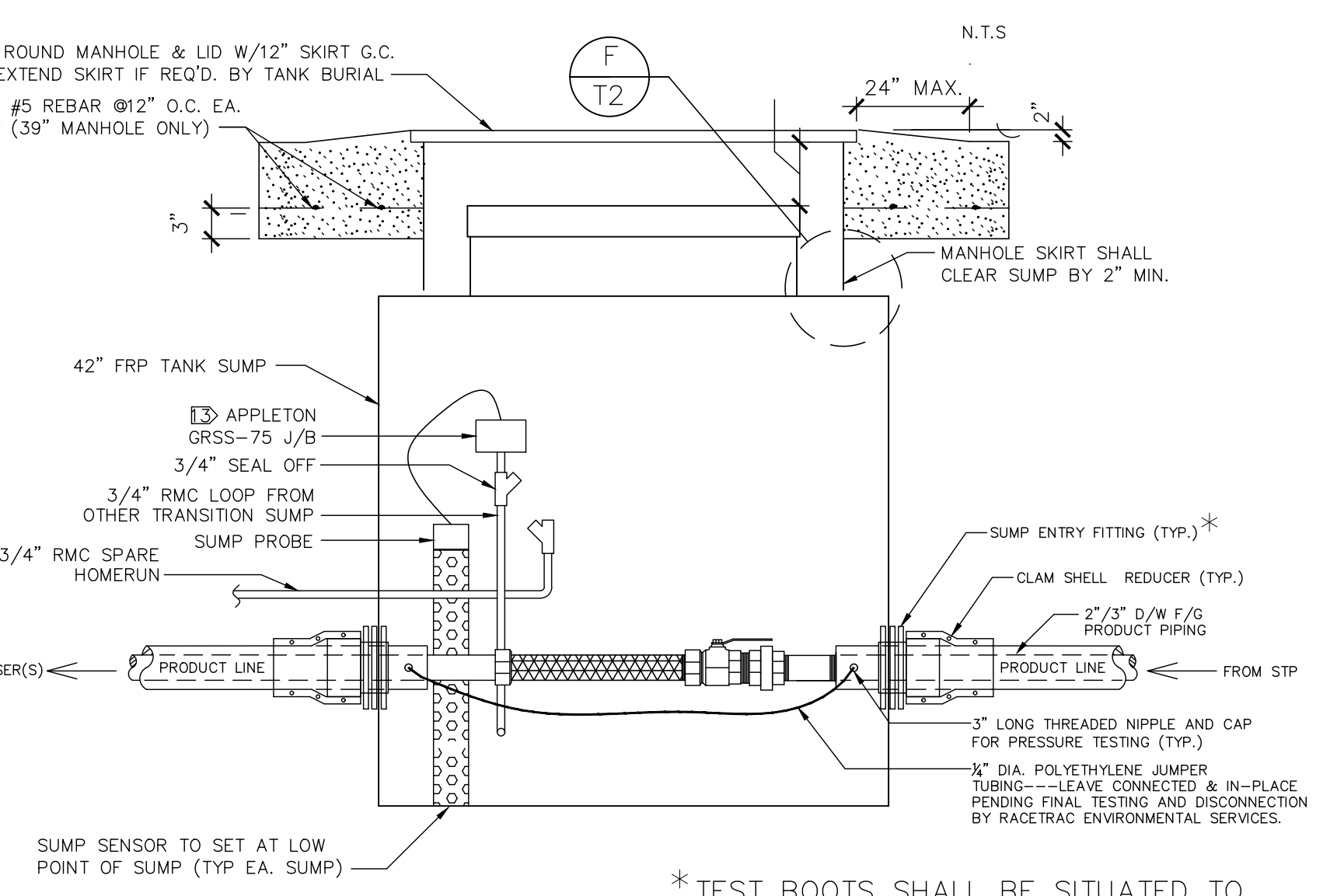
F MH EDGE WRAP DETAIL



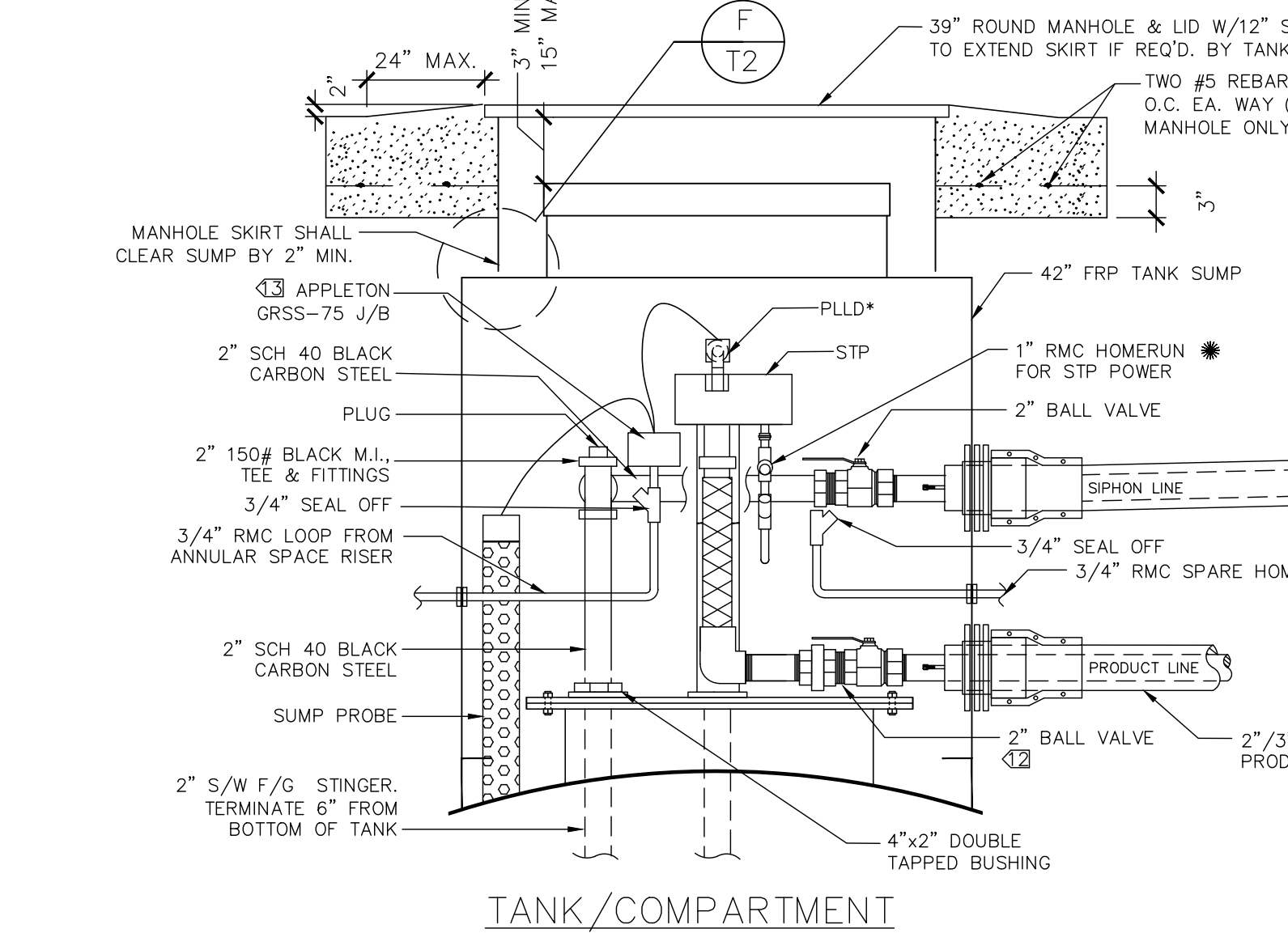
B3 VAPOR CROSS CONNECTOR



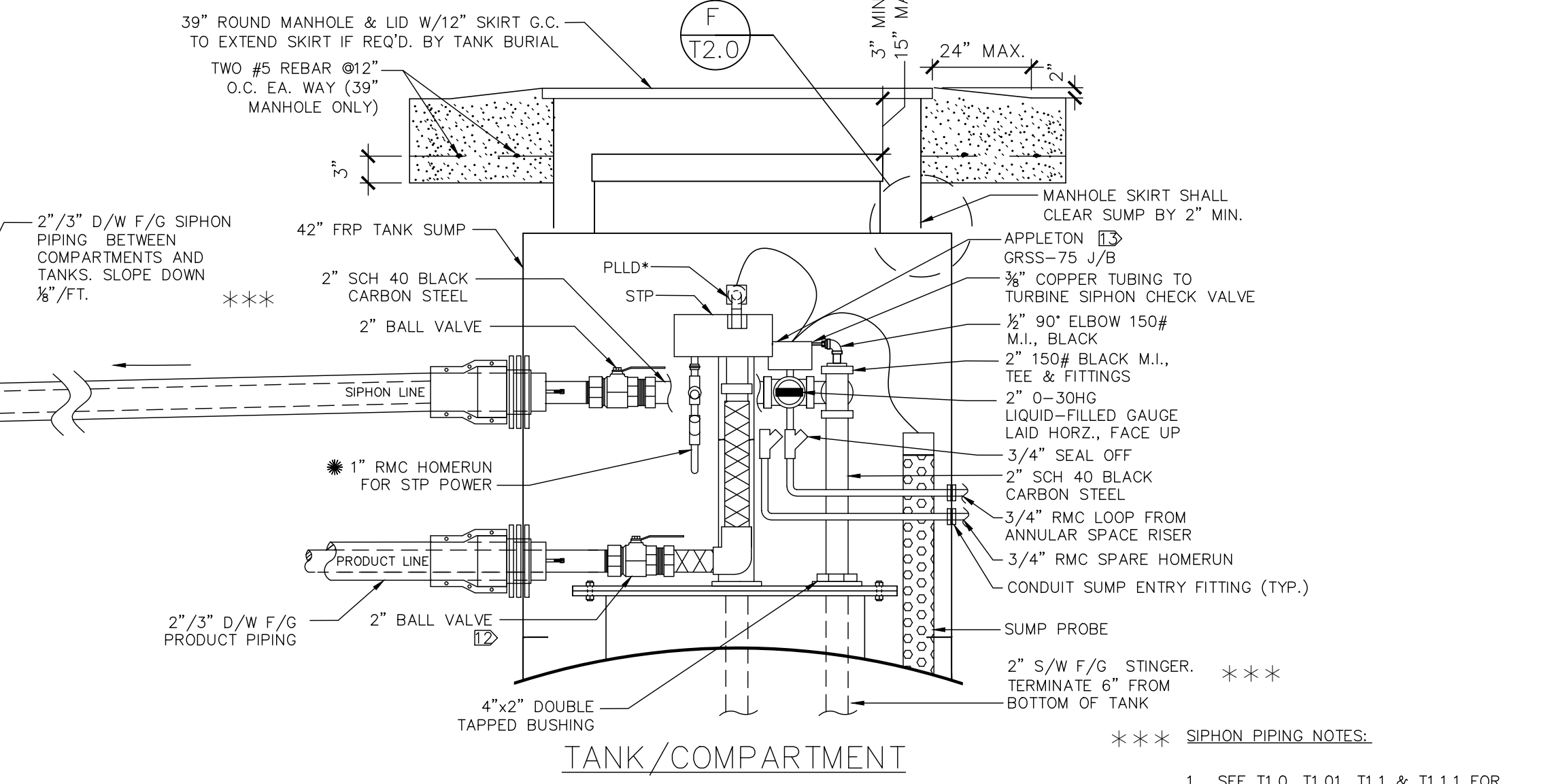
TYP. STP POWER CONDUIT INSTALLATION



H3 TRANSITION SUMP DETAIL



H5 SUBMERGED PUMP SUMP AND ACTIVE SIPHON PIPING DETAIL (DSL-B)



H4 SUBMERGED PUMP SUMP AND ACTIVE SIPHON PIPING DETAIL (D2, DSL-A)

**SIPHON PIPING NOTES:**

- SEE T1.0, T1.01, T1.1 & T1.11 FOR SITE SPECIFIC ACTIVE SIPHON CONNECTIONS
- 2" D/W F/G SIPHON PIPING SLOPED 1/8" PER FT. BETWEEN SUMPS
- SIPHON PIPING INSTALLATION TO BE IN ACCORDANCE WITH API 1615, SECTION 9.2.4 OR CURRENT CODE.

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**DESIGN PROFESSIONALS**

**MDM**  
engineering • environmental • construction  
2151 W. HILLSBORO BLVD., SUITE 401, DEERFIELD BEACH, FL 33442  
(954) 427-5070  
PLANS PREPARED BY:

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
03/02/21	CLIENT GLOBAL UPDATE
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10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE
02/24/22	

**RaceTrac**  
RACETRAC PETROLEUM, INC.  
200 GALLERIA PARKWAY SE  
SUITE 900  
ATLANTA, GEORGIA 30339  
(770) 431-7600

**PROJECT NAME**  
VERO BEACH TC

**VERO BEACH FLORIDA**  
8990 20th STREET  
VERO BEACH, FLORIDA  
RACETRAC PROJECT NUMBER  
**1422**

**PLAN SERIES**  
2011 BR-RH-M90 0801

**PLAN MODIFICATION NOTICE**

NO MODIFICATIONS APPLIED  
MODIFICATIONS APPLY

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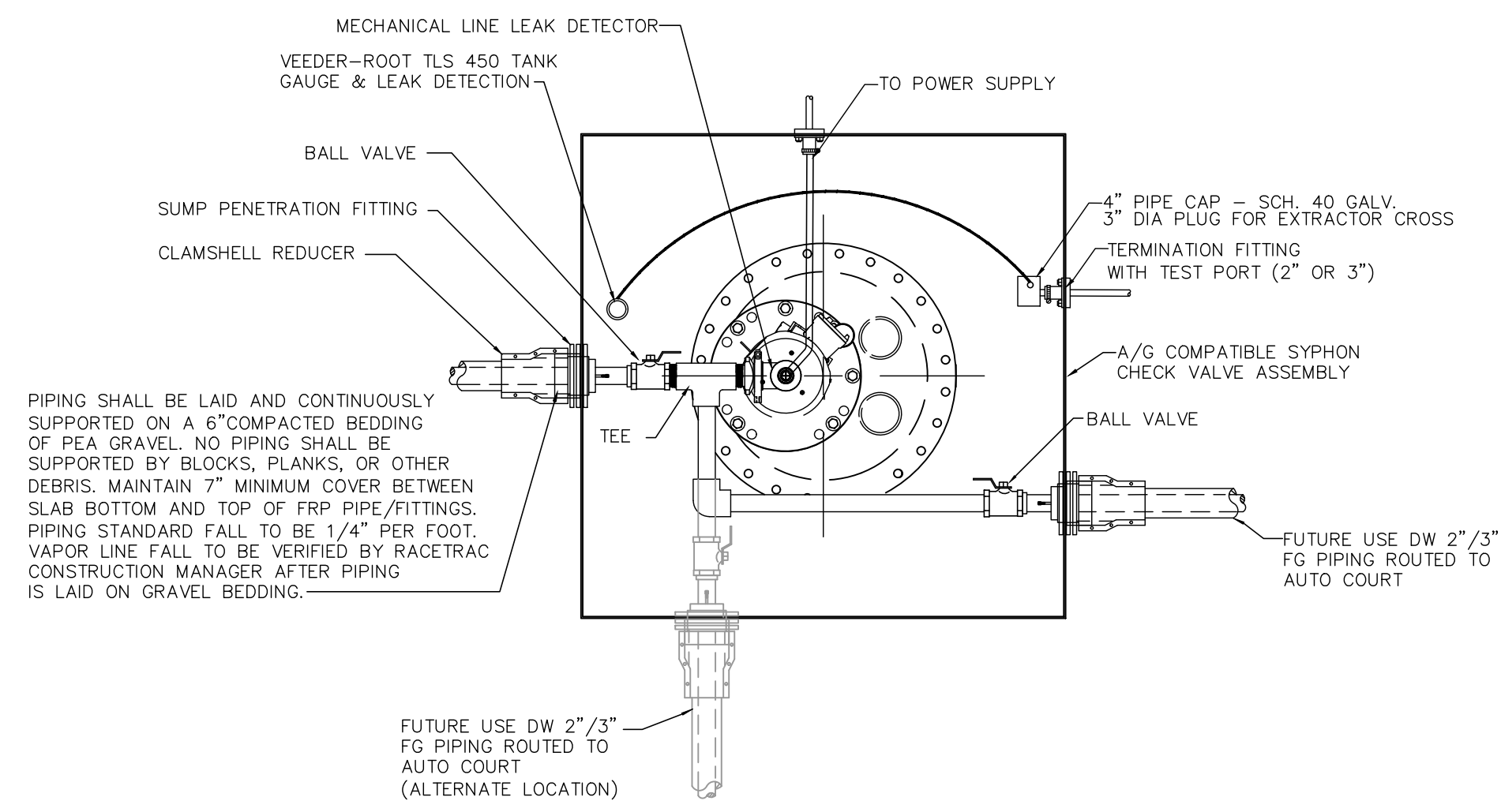
**PROFESSIONAL SEAL**

DAIMIAN D. LESLIE  
LICENSE No. 73113  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
DAIMIAN D. LESLIE  
FL REG # 73113

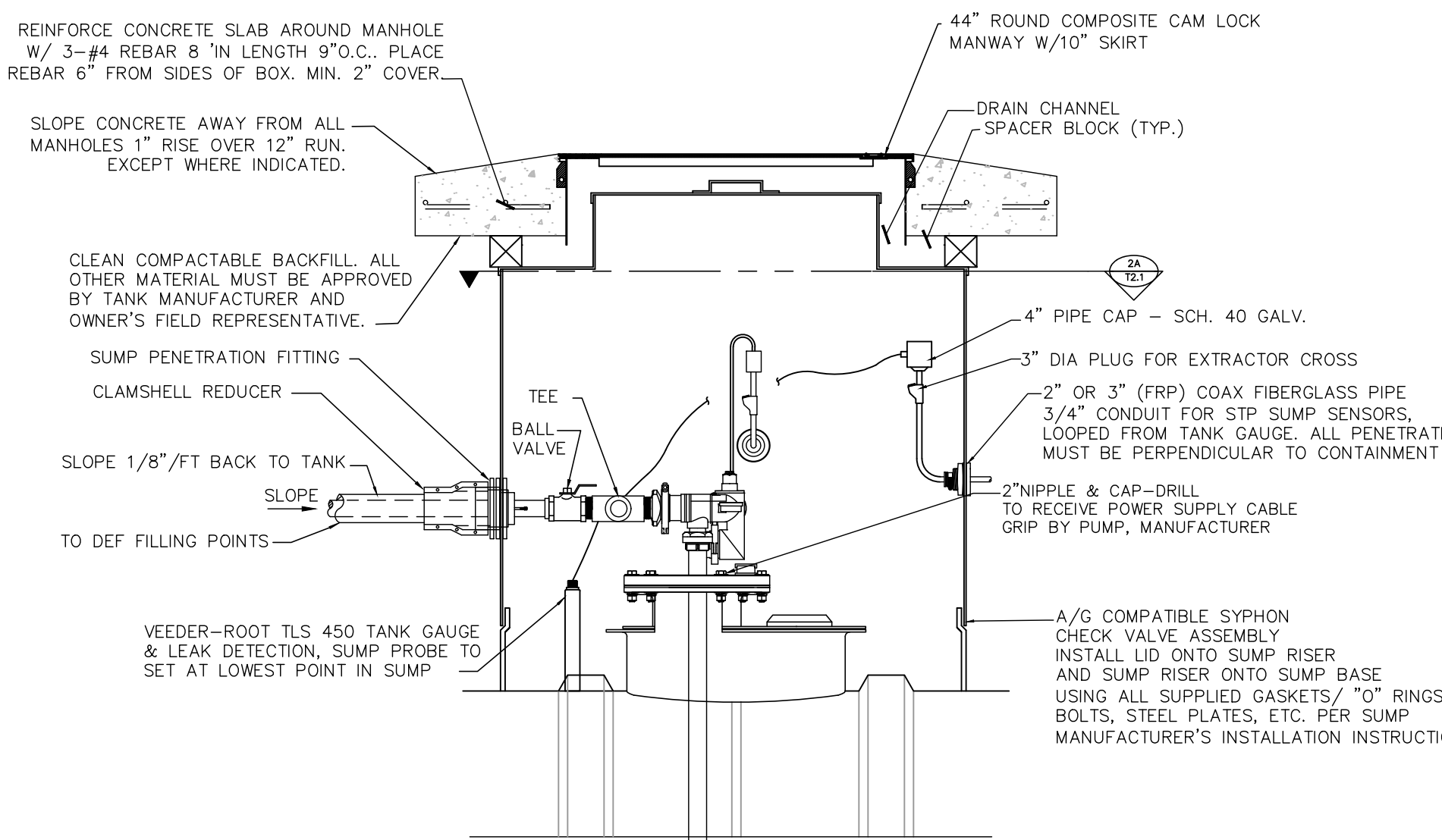
**PROJECT NUMBER**  
19252

**SHEET TITLE & NUMBER**  
U/G TANK EQUIPMENT

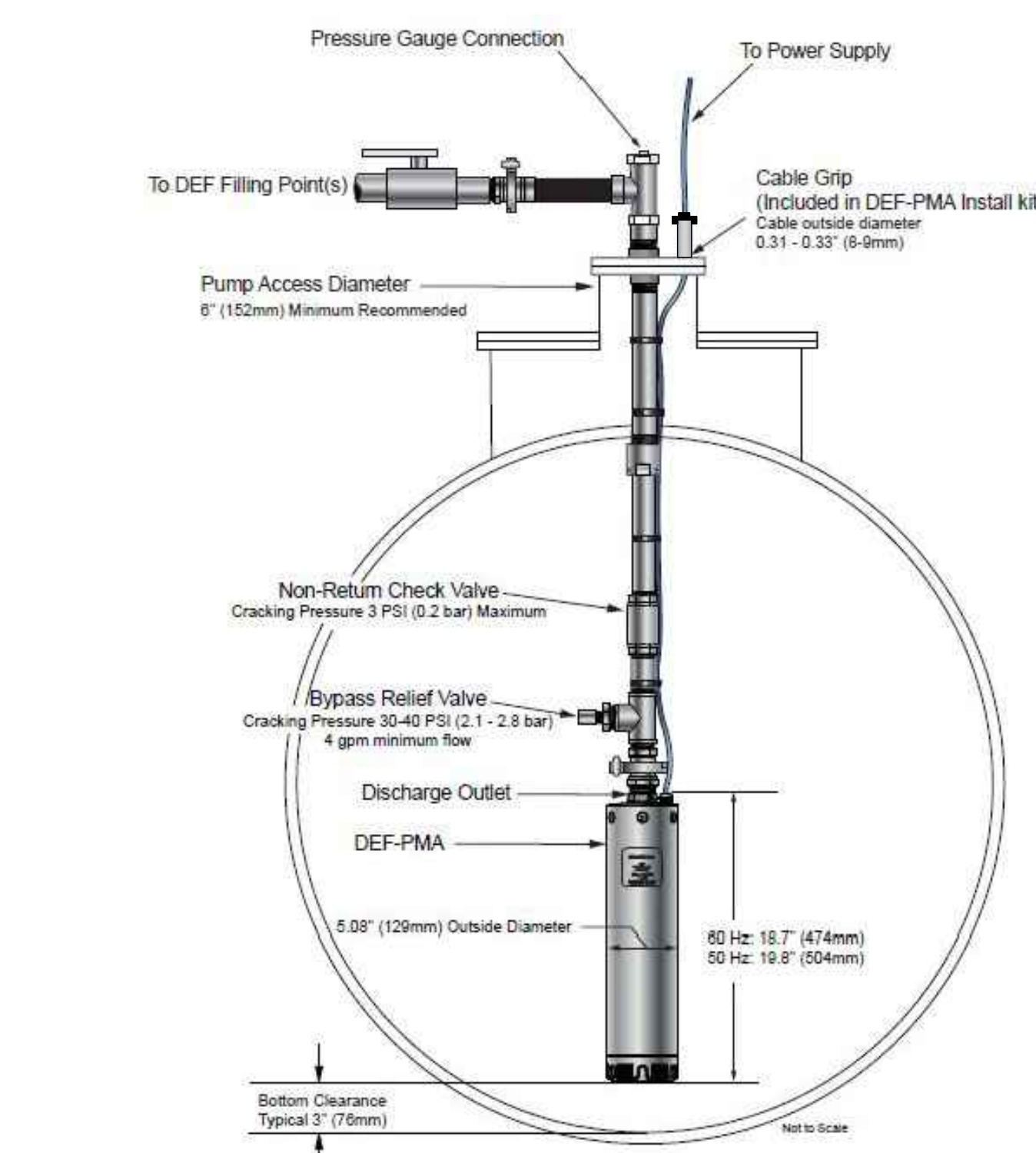
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**T2.0**  
ISSUED FOR CONSTRUCTION



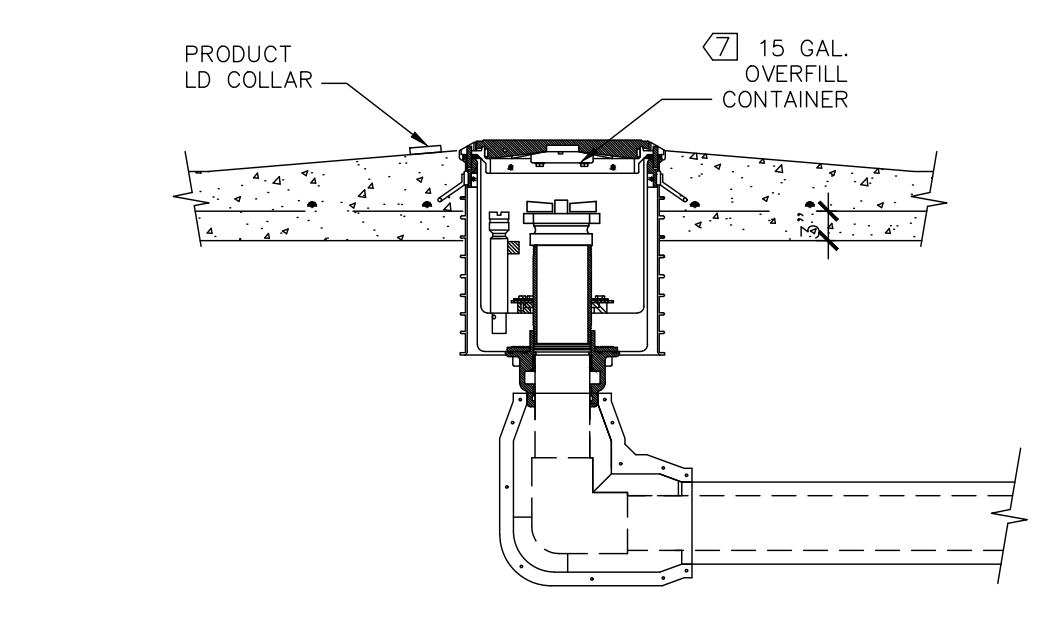
2A STP CONTAINMENT SUMP PLAN VIEW  
N.T.S.



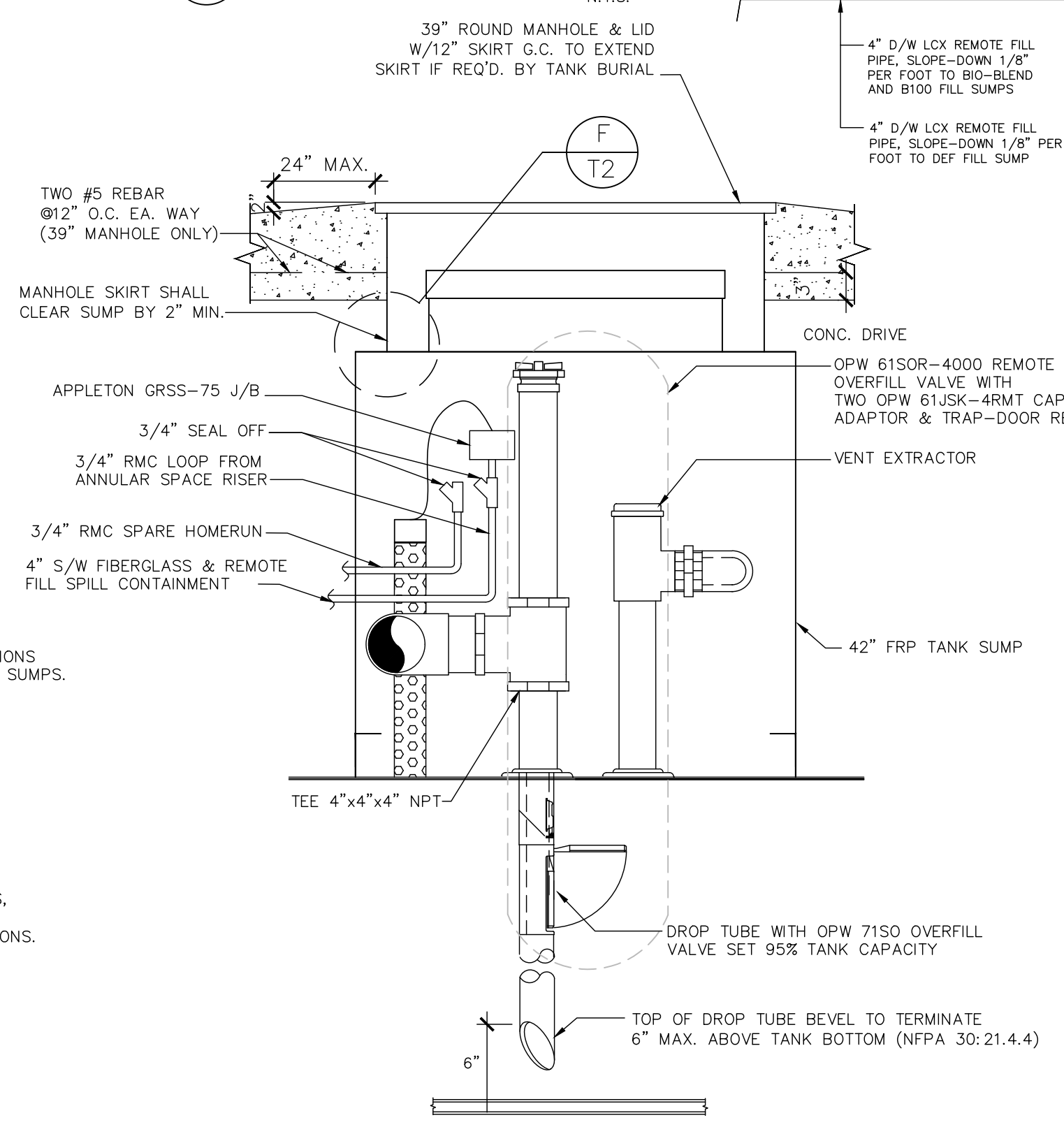
4A CUTAWAY VIEW OF STP SUMP  
N.T.S.



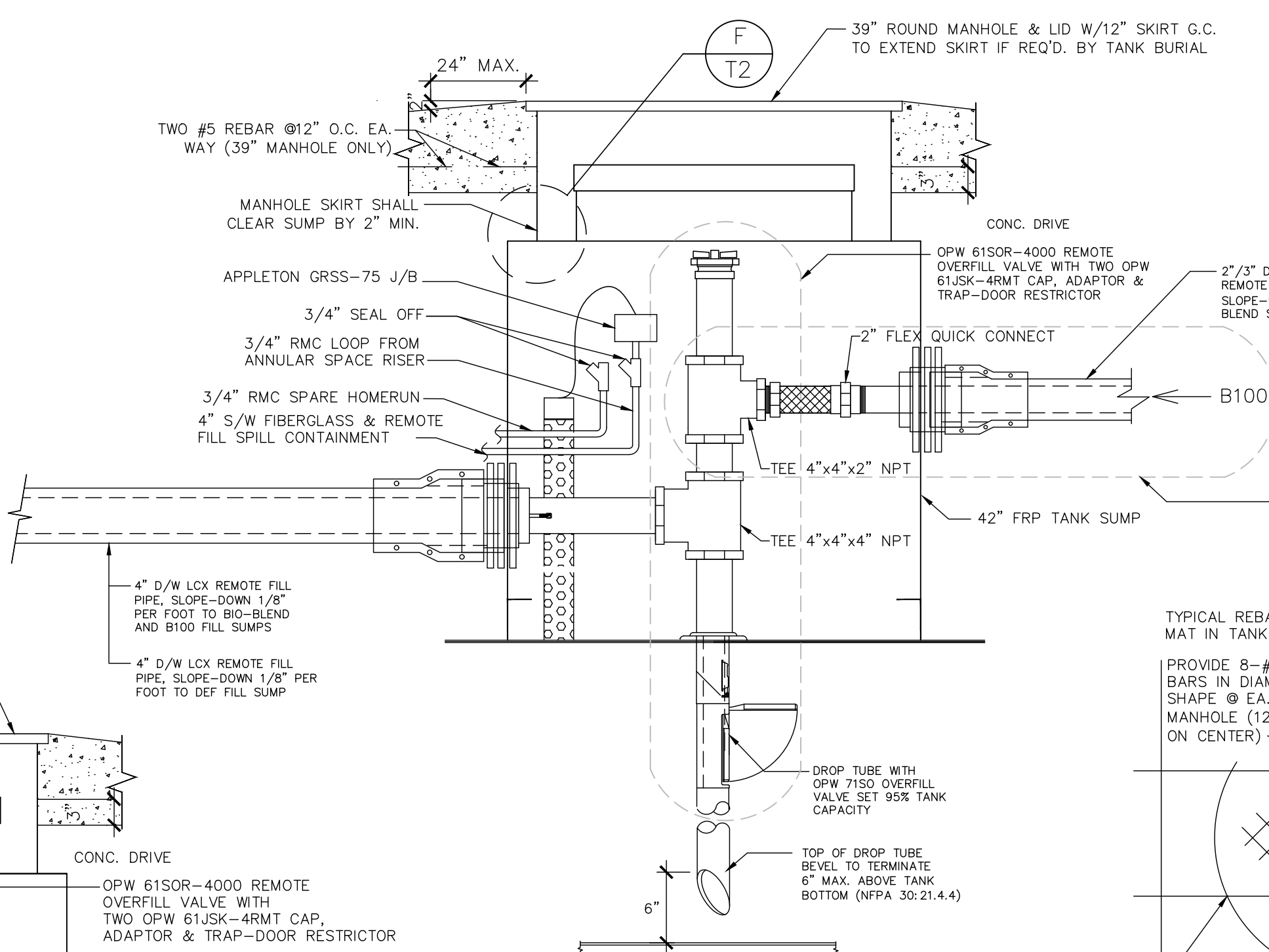
4A PICTORAL VIEW D.E.F. PUMP  
N.T.S.



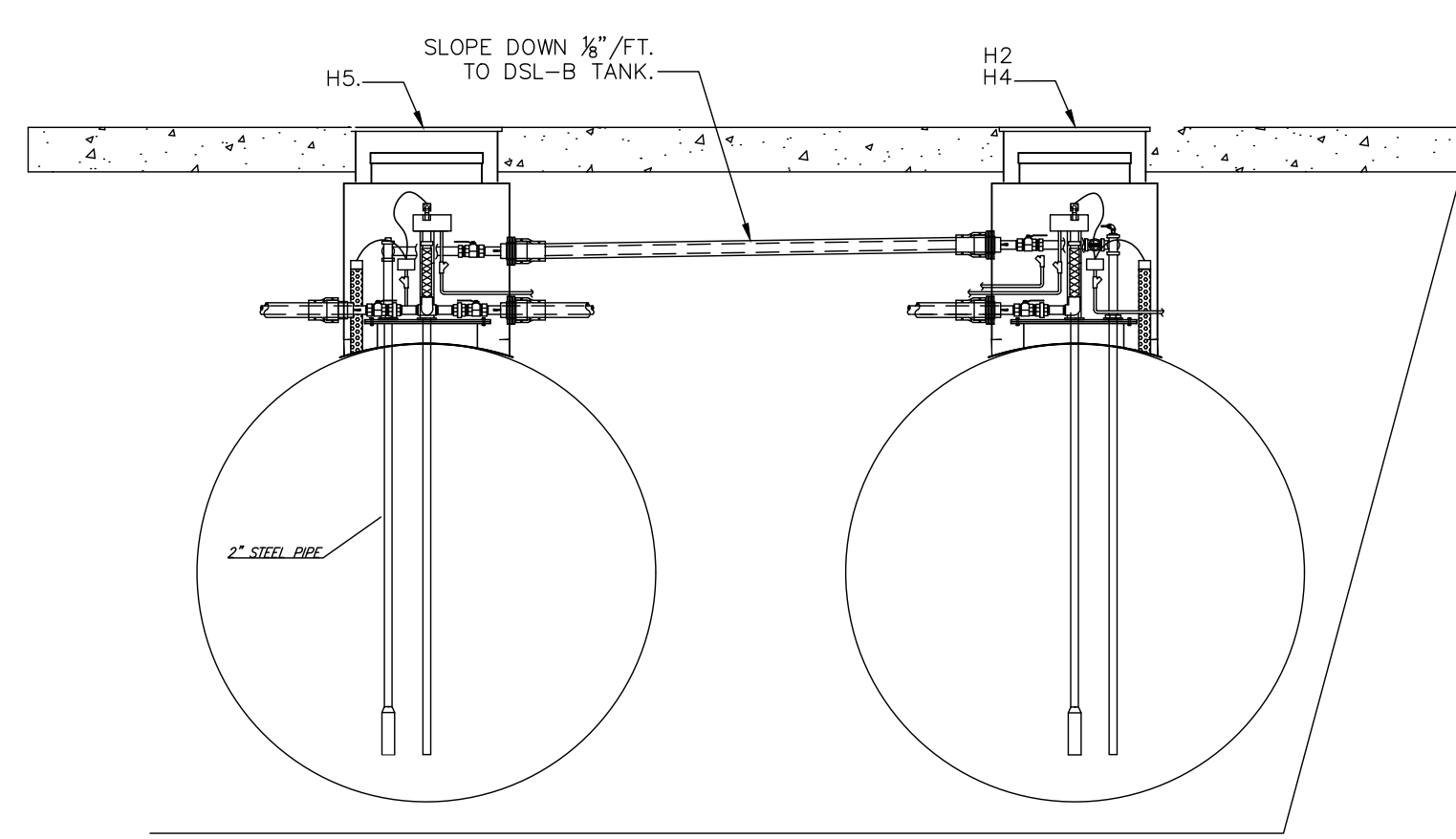
REMOTE FILL SPILL CONTAINMENT  
15 GALLON, NPT BASE



D3 FILL PIPING SUMP  
N.T.S.



D1 TANK SUMP FILL/DROP TUBE DETAIL  
N.T.S.

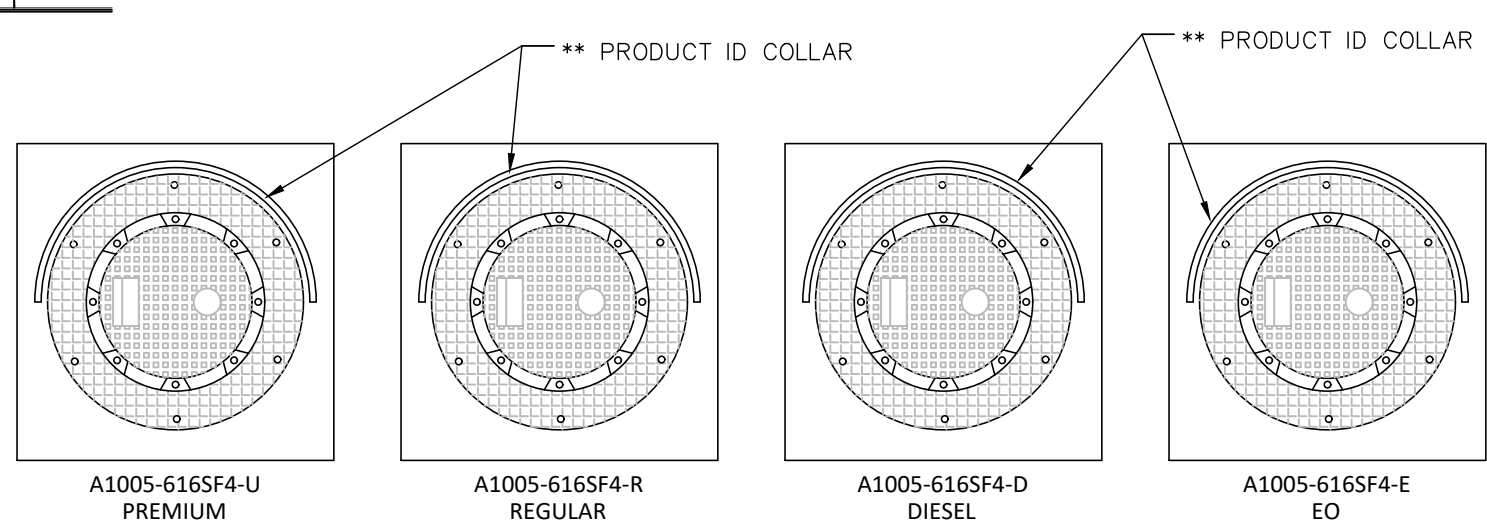


D5 TYPICAL MANHOLE PLAN  
N.T.S.

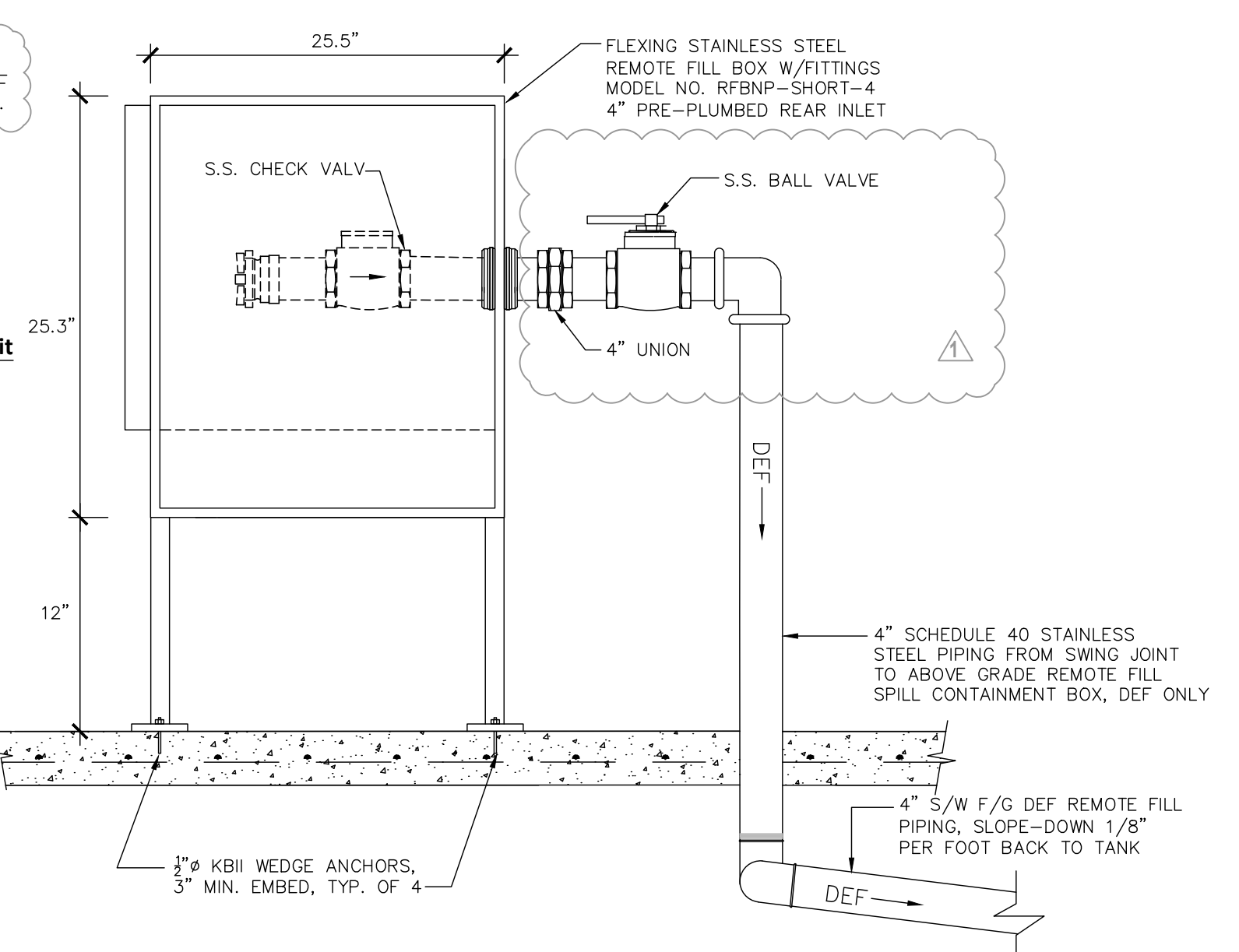
NOTE: PAINT FILL AND VAPOR M/H COVERS & RINGS, ALL TANKS PER API CODES AS FOLLOWS:

PRODUCT	COLOR
UNLEADED REGULAR:	WHITE
UNLEADED PREMIUM:	RED
E-O GASOLINE:	BLUE W/WHITE "E-O" STENCIL
DIESEL ULSD:	YELLOW
B-20 BIO DIESEL:	TBA
B-100:	SKY BLUE
DEF:	TBA
VAPOR:	ORANGE

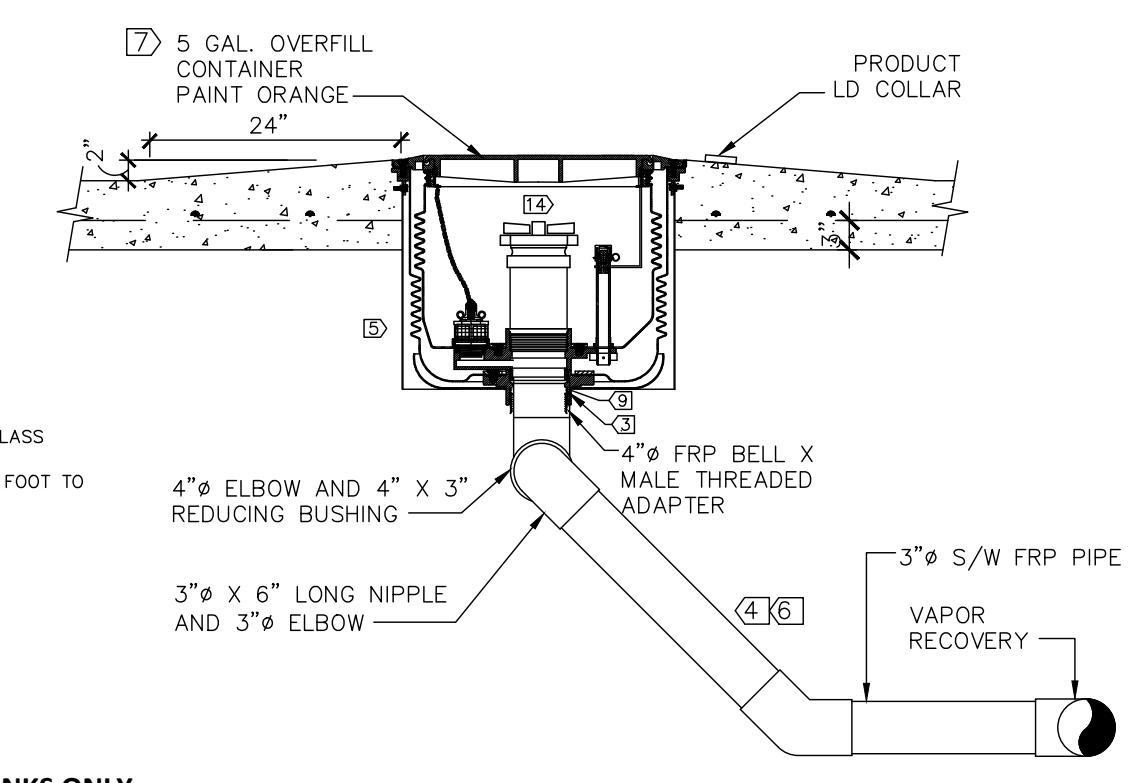
STANDAR TANK PIT	EDO Split Tank Pit	Travel Center Split Tank Pit	Travel Center Combined Tank Pit
White- UNLEAD-20000	White- UNLEAD-20000	White- UNLEAD-20000	White- UNLEAD-20000
Red- PREMIUM-12000	Red- PREMIUM-12000	Red- PREMIUM-15000	Red- PREMIUM-15000
Bronze- EO-12000	Bronze- EO-12000	Bronze- EO-15000	Bronze- EO-10000
Yellow- DIESEL-12000 (x2)	Yellow- DIESEL-12000 (x3)	Yellow- DIESEL-15000 (x3)	Sky Blue- B100-15000
	Yellow- DIESEL-24000	Yellow- DIESEL-30000	Yellow- DIESEL-15000
	Yellow- DIESEL-12000	Yellow- DIESEL-15000	Yellow- DIESEL-30000
			Yellow- DIESEL-30000



D3 15 GALLON FILL BUCKET IDENTIFICATION  
N.T.S.



D4 REMOTE FILL ABOVE GRADE SPILL CONTAINMENT BOX, DEF  
N.T.S.



G1 STAGE I VAPOR RECOVERY\*\*  
N.T.S.

- NOTES:
- INSTALL IDENTIFICATION MARKER.
  - THOROUGHLY HAND CLEAN WITH WIRE BRUSH. APPLY COAL TAR. WRAP WITH TEST 3M TAPE.
  - INSTALL GROUNDING CONNECTOR TO RISER.
  - ALL REMOTE STAGE 1 VAPOR RECOVERY PIPE AND FITTINGS SHALL BE FRP.
  - MAINTAIN 7" MINIMUM COVER BETWEEN SLAB BOTTOM AND TOP OF FRP PIPE/FITTINGS.
  - SLOPE @ MINIMUM OF 1/8" PER FOOT.
  - 4" G.I. NIPPLE, STAGE ONE VR DRY BREAK AND LOCKING CAP. MAINTAIN 1-1/2" TO 2" BETWEEN CAP AND OVERFILL CONTAINER COVER. USE STABILIZER BARS SUPPLIED WITH OVERFILL CONTAINER TO ESTABLISH CORRECT FINISHED ELEVATION.

- \*LEAK DETECTOR SPECIFICATIONS
- MANUFACTURER: VEEDER-ROOT  
TYPE: PRESSURIZED LINE LEAK DETECTOR FOR P.E. PETRO PUMPS  
MODEL NUMBER: 848480-001  
OPERATING TEMP.: -25° TO +130°  
COMPATIBLE FUELS:  
UNLEADED GASOLINE  
LEADED GASOLINE  
5% METHANOL/95% UNLEADED  
10% ETHANOL/90% UNLEADED  
DIESEL  
KEROSENE  
JET FUEL  
AVIATION GASOLINE
- LINE FLOW RATE: 120 GPM MAX  
DESIGN: INTRINSICALLY SAFE  
OPERATING RANGE: 0-50 PSI  
PROOF PRESSURE: 200 PSI

- DO NOT USE THREAD SEALANT ON THREADS COMMON TO CAGE & BASE. WHEN INSTALLING CAGE INTO BASE, LUBRICATE THREADS WITH LIGHT COATING OF GREASE. DO NOT OVERTIGHTEN.
  - APPLY APPROVED THREAD SEALANT.
  - BLANK
  - SINGLE BRASS BALL VALVE, FLEX CONNECTOR & ELBOW ASSEMBLY IN EACH RES., PREM. & DSL. STP SUMP. SINGLE STAINLESS STEEL BALL VALVE, FLEX CONNECTOR & ELBOW ASSEMBLY IN E85 STP SUMP.
  - EXPLOSION PROOF BOX MOUNTED SO THAT ACCESS OPENING FACING UP.
  - SPACE BETWEEN TOP OF CAP AND LID TO BE MIN. 3" CLEAR.
- HYDROSTATIC TIGHTNESS TESTING  
(AFTER ALL PENETRATIONS HAVE BEEN COMPLETED)
- DISPENSER PAN/SUMP & STP SUMPS:  
FILL CHAMBER WITH WATER. MONITOR WATER LEVEL FOR ONE HOUR. INSPECT ALL PENETRATIONS FOR TIGHTNESS. CORRECT ANY LEAKS AND RE-TEST AS REQUIRED.  
NOTE: OWNER'S ENGINEER SHALL WITNESS TESTING

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FL CA 904857 (954) 927-3070

PLANS PREPARED BY:

ISSUE/REVISION RECORD

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04/01/22	CLIENT GLOBAL UPDATE

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ATLANTA, GEORGIA 30339  
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PROFESSIONAL SEAL

DAIMIAN D. LESLIE  
LICENSE No. 73113  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
DAIMIAN D. LESLIE  
FL REG # 73113

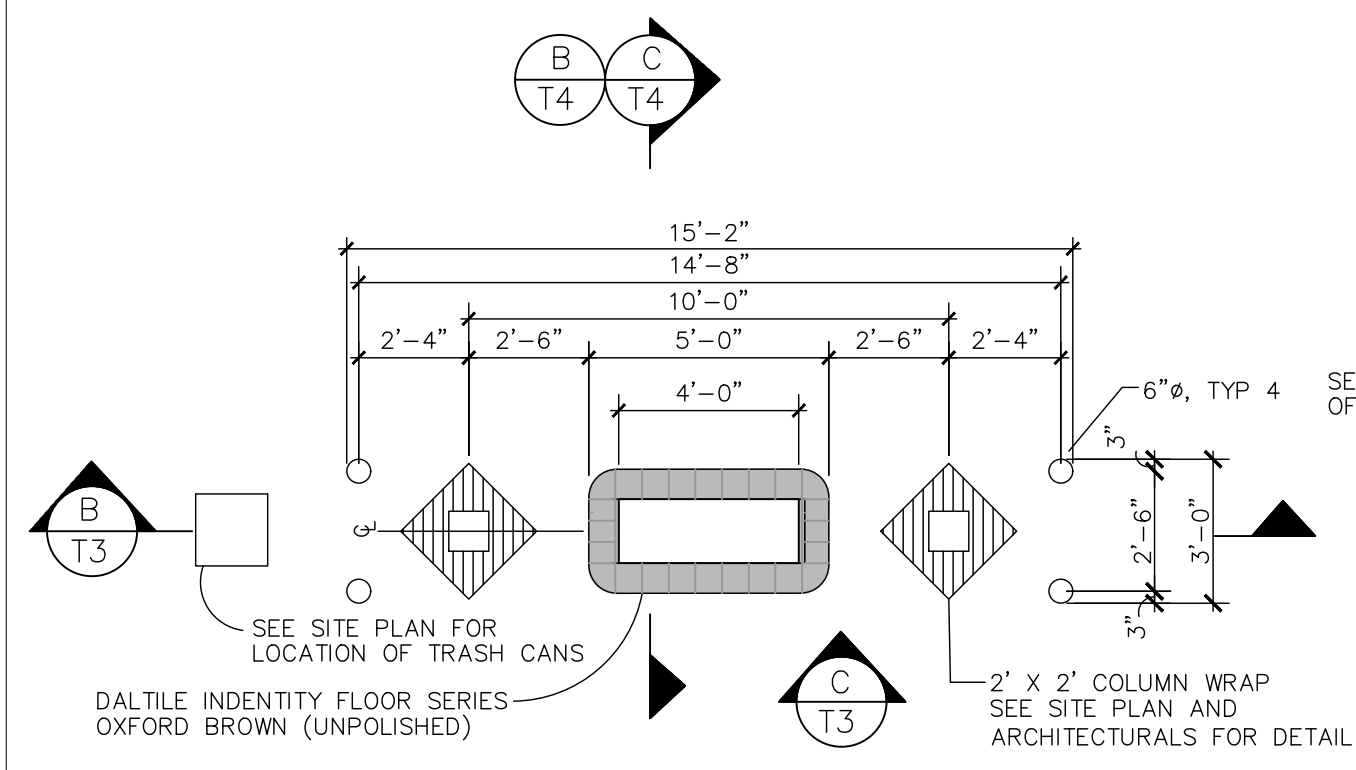
PROJECT NUMBER  
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SHEET TITLE & NUMBER

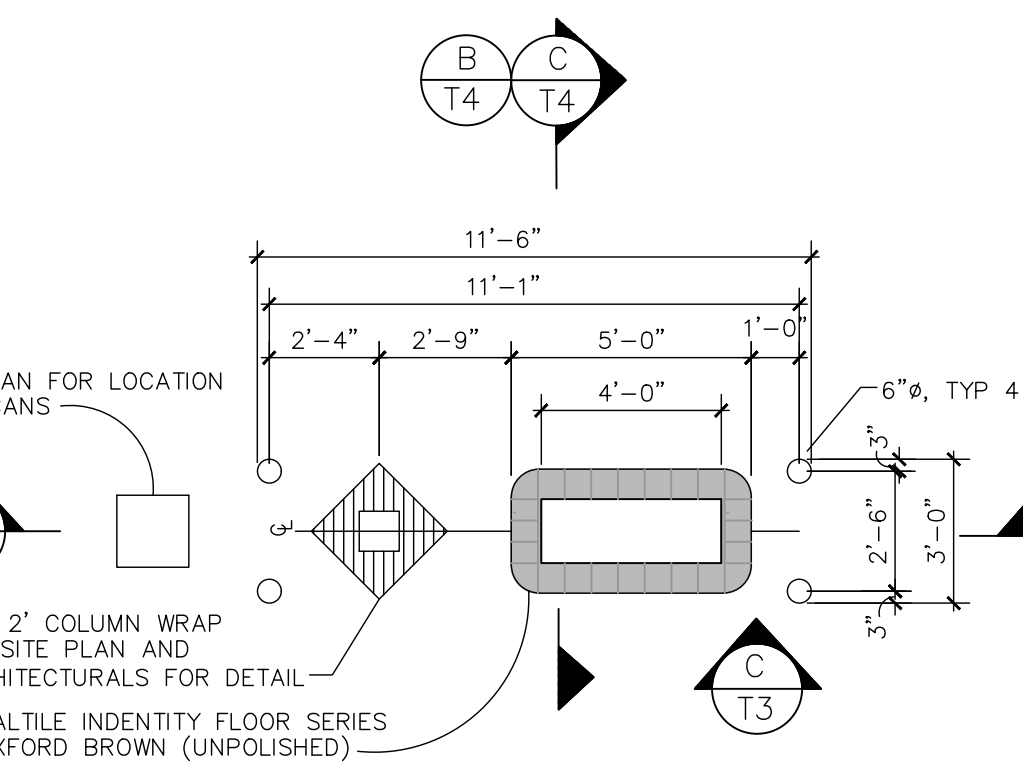
U/G TANK EQUIPMENT

FILE NUMBER  
**T2.1**

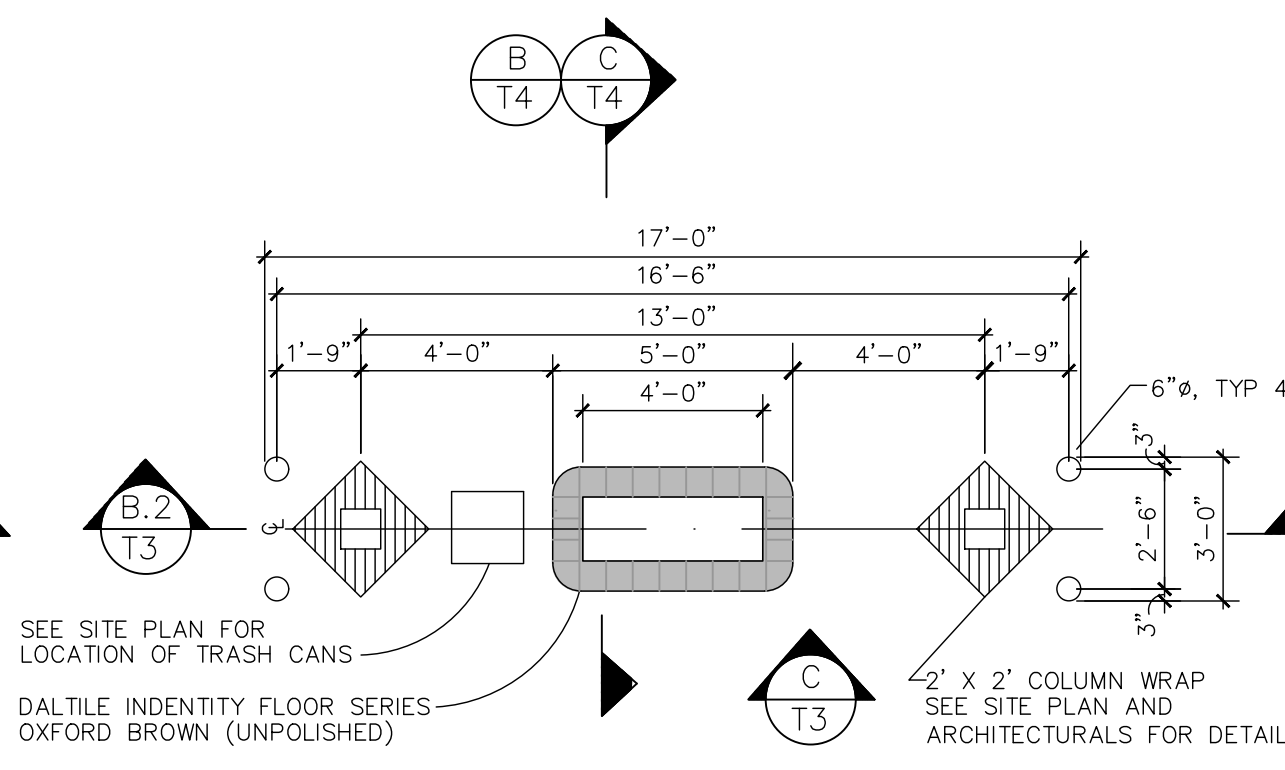
ISSUED FOR CONSTRUCTION



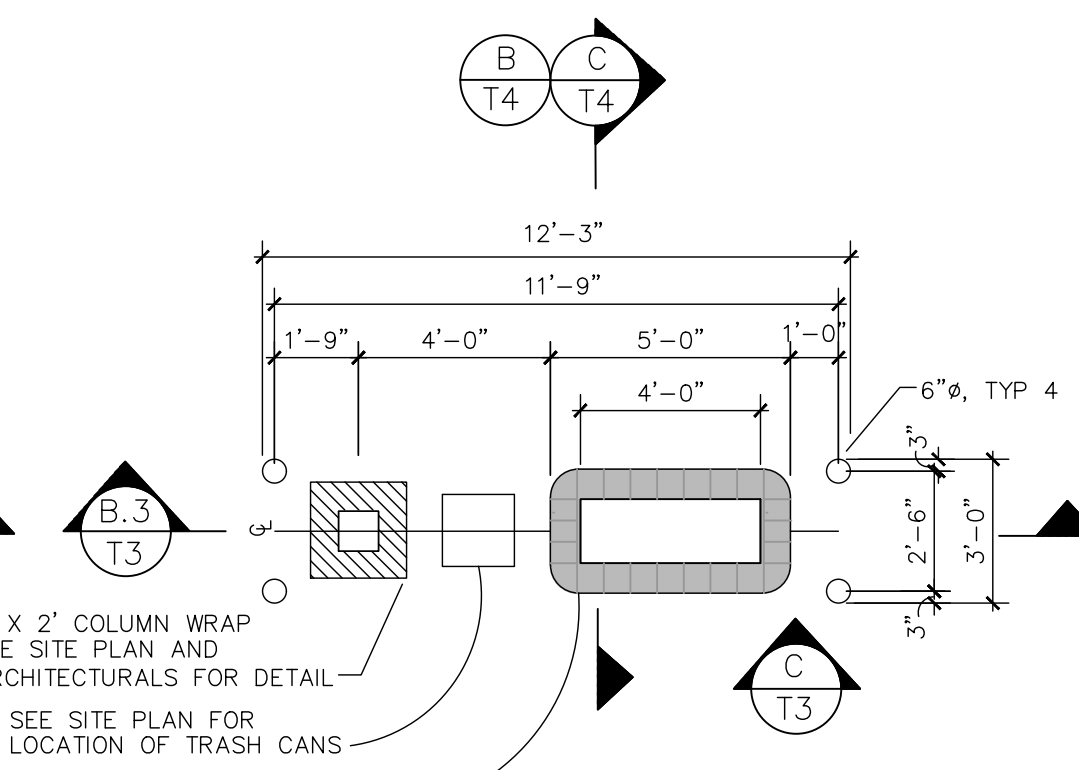
**A**  
T3 PUMP ISLAND DETAIL  
 1. SEE SITE PLAN FOR SPECIFIC ISLAND LAYOUT(S) N.T.S.



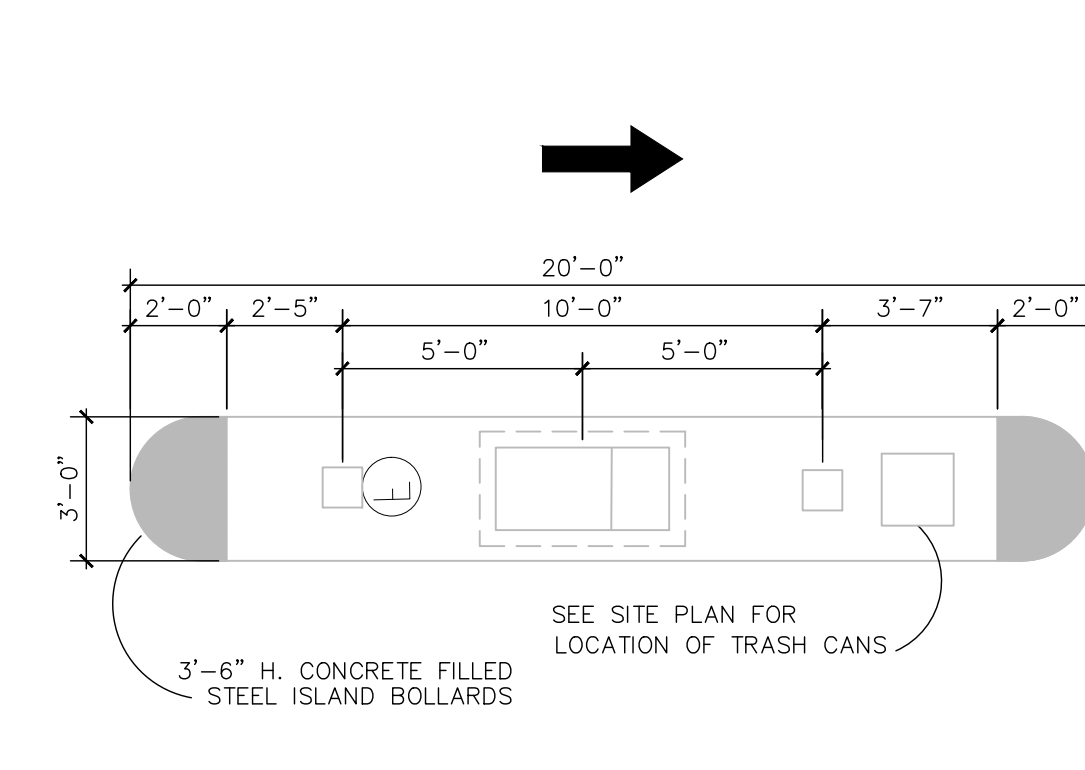
**A.1**  
T3 TYPICAL PUMP ISLAND DETAIL  
 1. SEE SITE PLAN FOR SPECIFIC ISLAND LAYOUT(S) N.T.S.



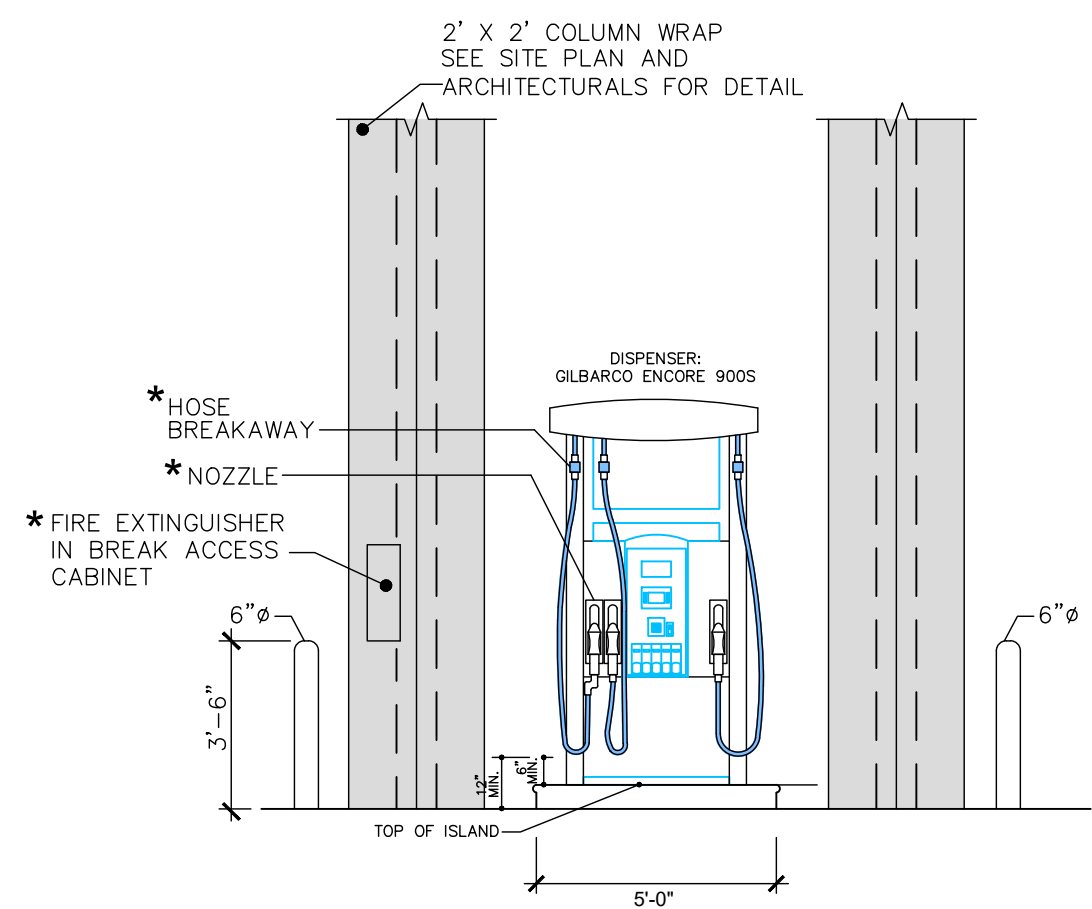
**A.2**  
T3 PUMP ISLAND DETAIL  
 1. SEE SITE PLAN FOR SPECIFIC ISLAND LAYOUT(S) N.T.S.



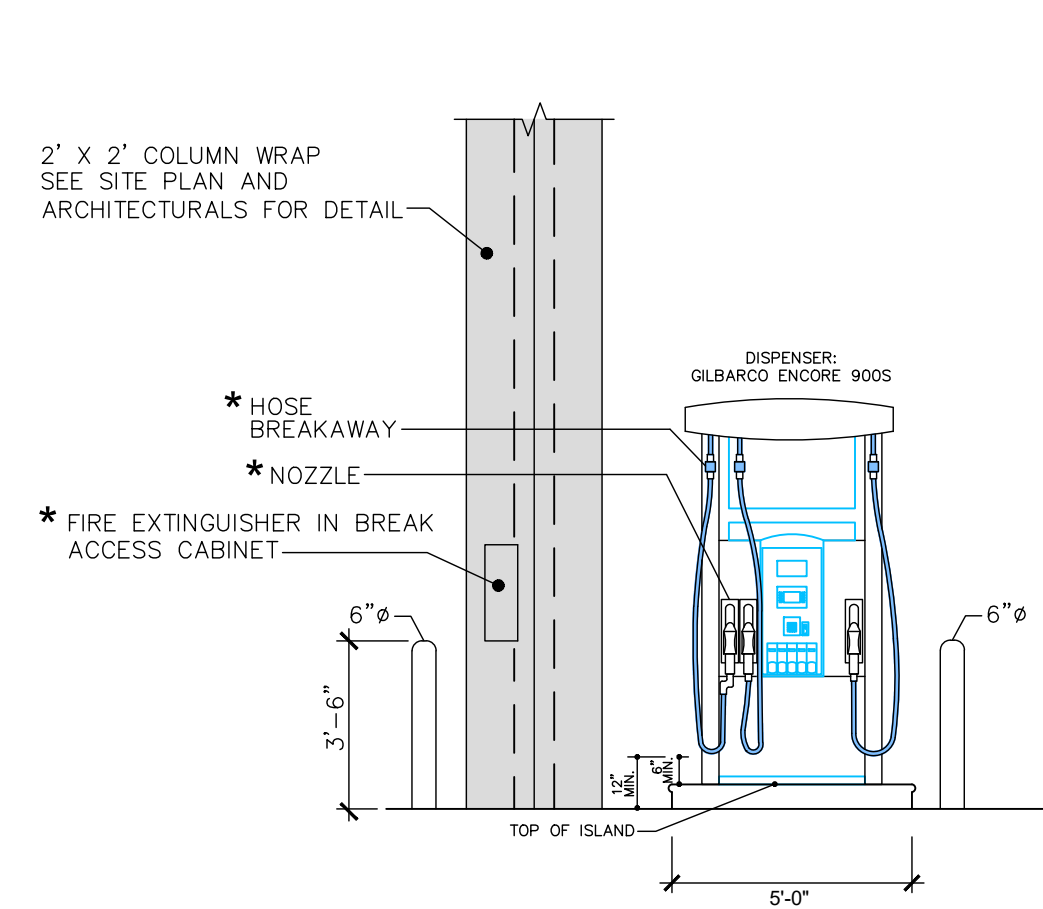
**A.3**  
T3 TYPICAL PUMP ISLAND DETAIL  
 1. SEE SITE PLAN FOR SPECIFIC ISLAND LAYOUT(S) N.T.S.



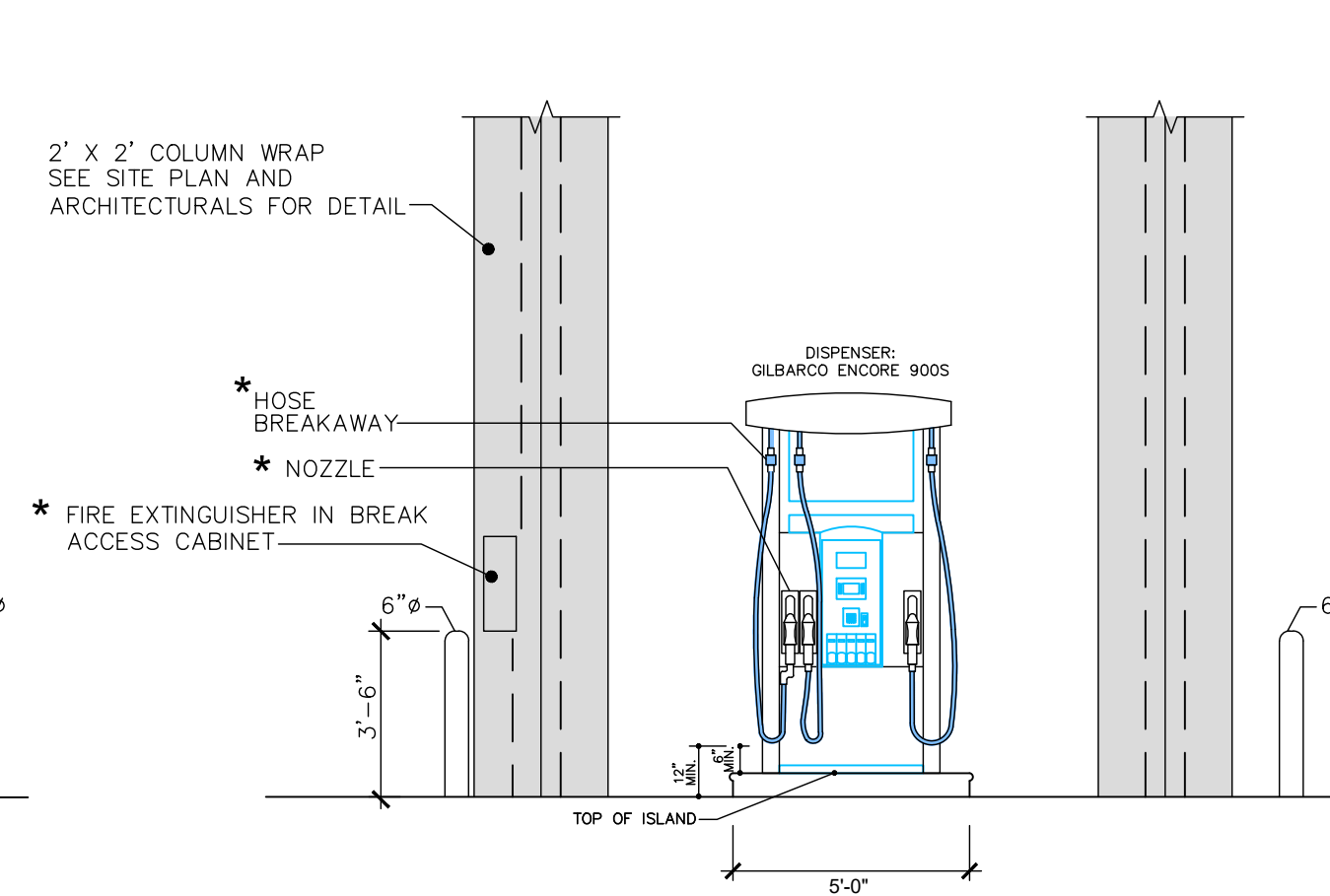
**A.4**  
T3 TRUCK PUMP ISLAND DETAIL  
 1. SEE SITE PLAN FOR SPECIFIC ISLAND LAYOUT(S) N.T.S.



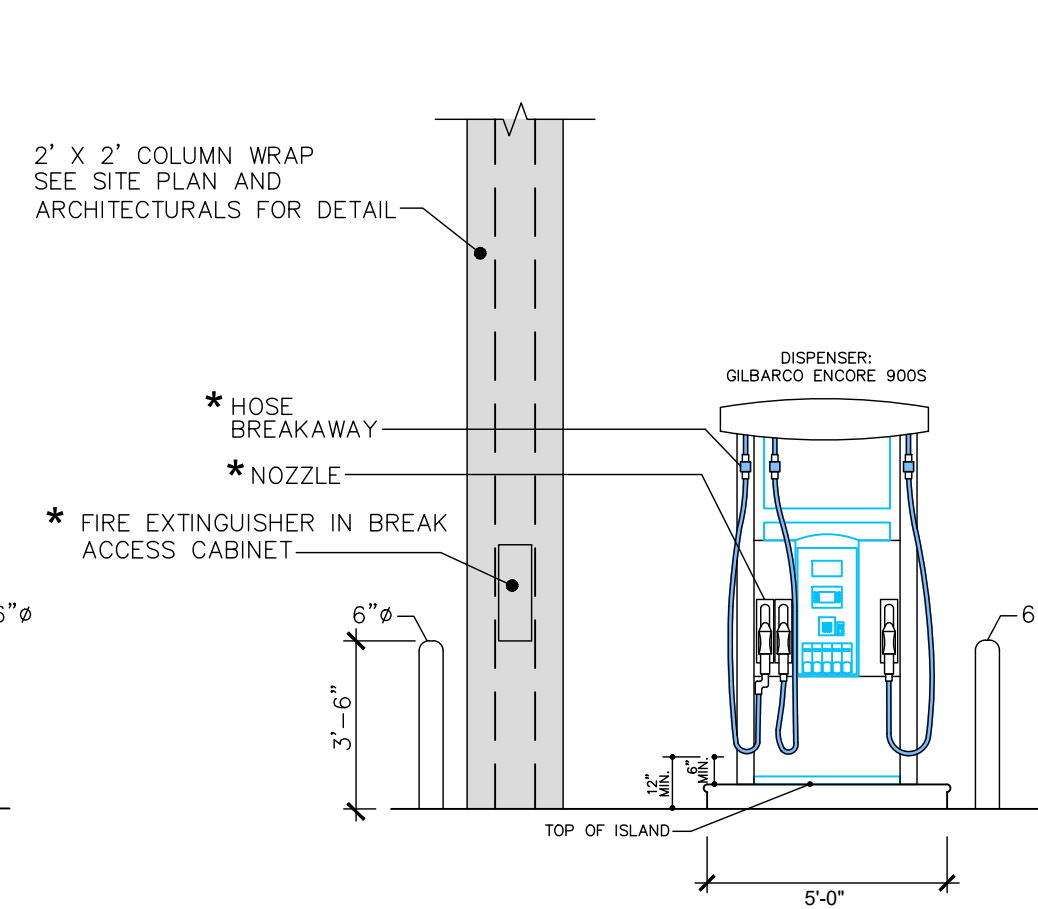
**B**  
T3 PUMP ISLAND ELEVATION, AUTO GILBARCO ENCORE DISPENSER N.T.S.



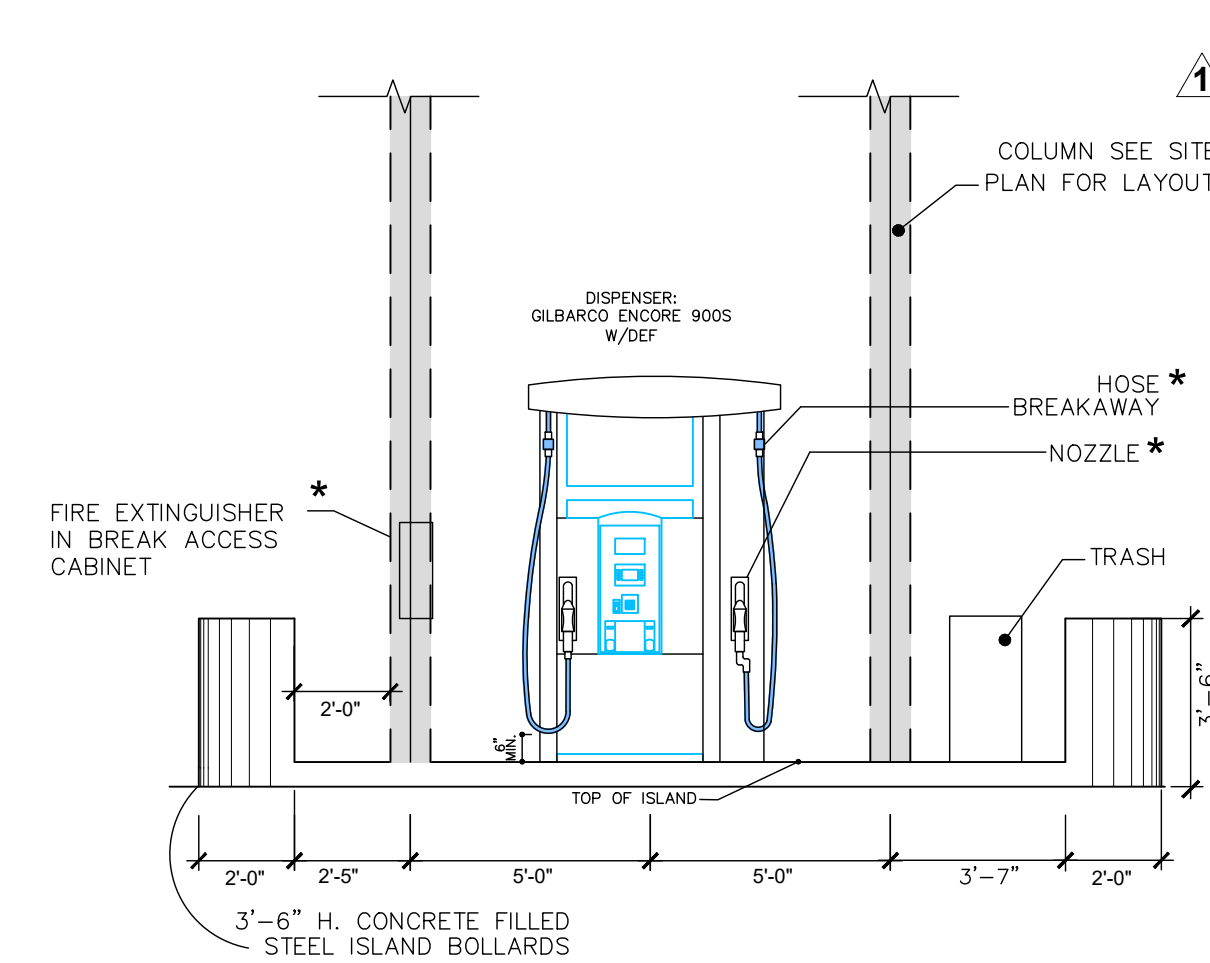
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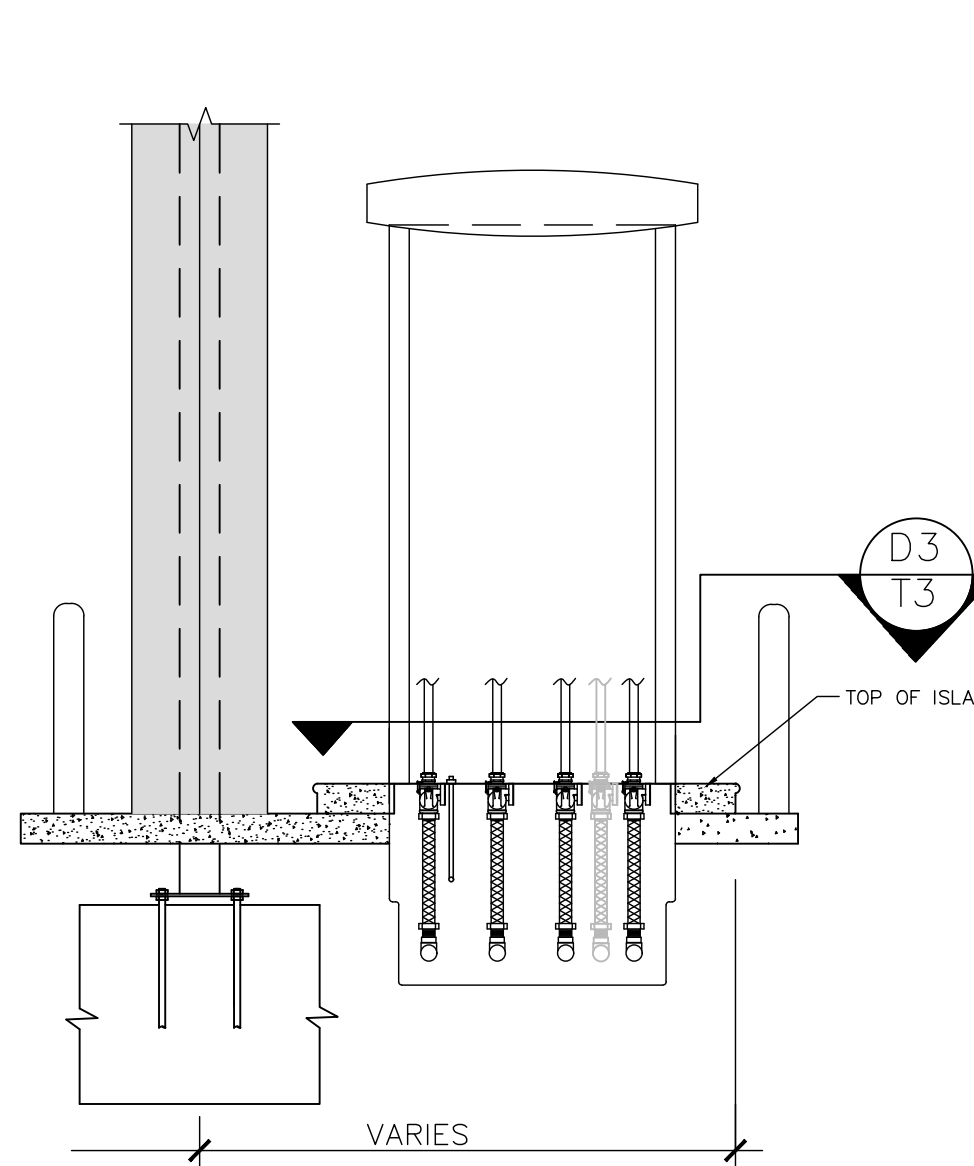
**B.2**  
T3 PUMP ISLAND ELEVATION, AUTO GILBARCO ENCORE DISPENSER N.T.S.



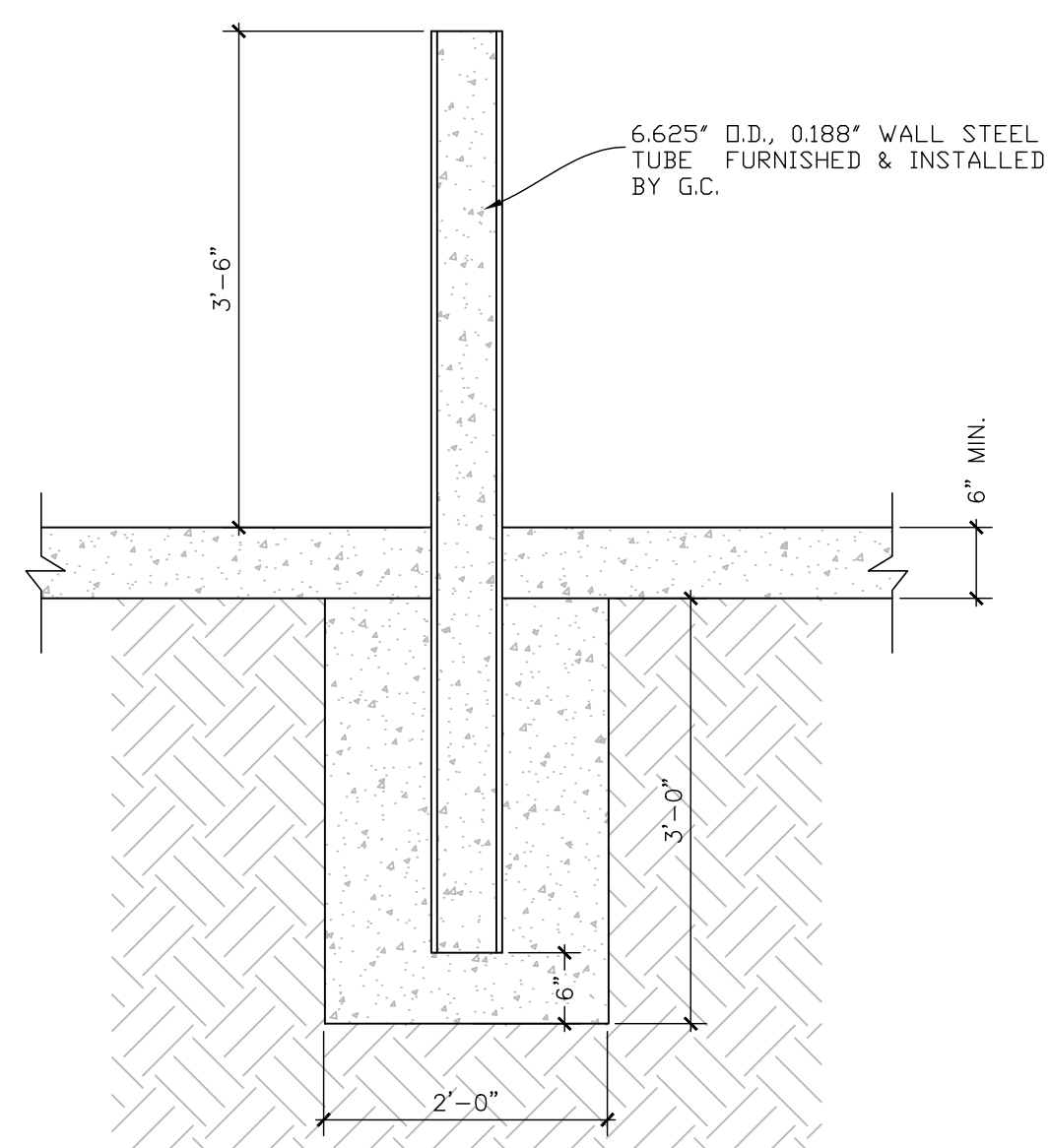
**B.3**  
T3 PUMP ISLAND ELEVATION, AUTO GILBARCO ENCORE DISPENSER N.T.S.



**B.4**  
T3 TRUCK PUMP ISLAND ELEVATION GILBARCO ENCORE MASTER/SATELLITE W/DEF N.T.S.

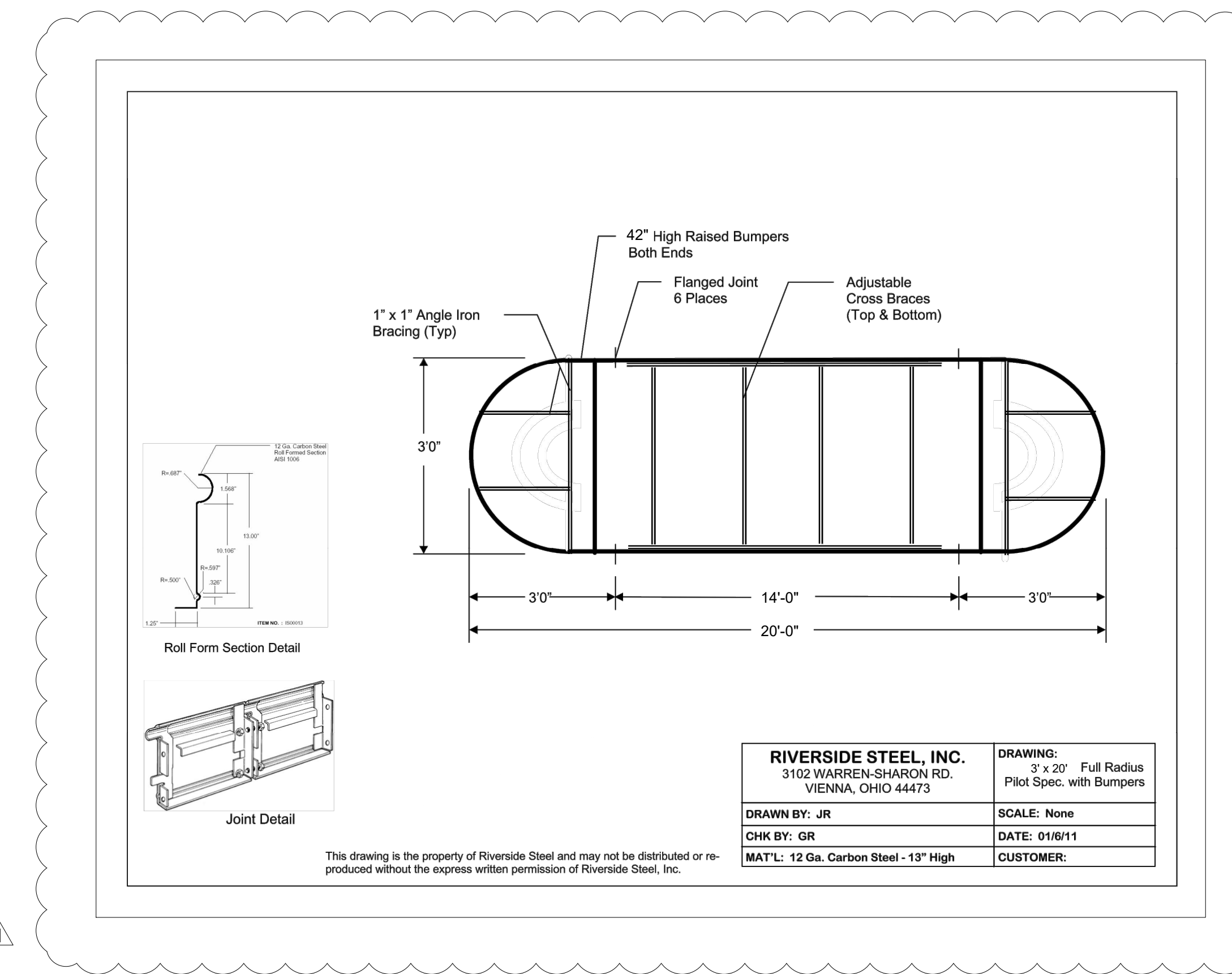


**C**  
T3 TYP. PUMP ISLAND SECTION N.T.S.



**D.5**  
T3 PROTECTIVE BOLLARD DETAIL-AUTO N.T.S.

- NOTES:**
- FUEL NOZZLES TO BE UL LISTED, SEE SPECIFICATION SHEET T-4.
  - FUEL HOSE BREAKAWAYS TO BE UL LISTED, SEE SPECIFICATION SHEET T-4.
  - SHEAR VALVE TO BE RIGIDLY ANCHORED, SEE SPECIFICATION SHEET T-4.
  - FACILITY SHALL BE PROVIDED WITH NFPA 30A, 9.2.5.2/NFPA 10 HIGH FLOW FIRE EXTINGUISHER: AMEREX MODEL NO. 760, 4A:60B; C, 20 LB CAPACITY, OR EQUAL, WITHIN 100 FT OF ALL DISPENSING PUMPS & FILL PIPE OPENINGS.



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 DESIGN PROFESSIONALS  
**MDM**  
 PLANS PREPARED BY:  
**MDM**  
 engineering • environmental • construction  
 2151 W HILLSBORO BLVD. STE 401 DEERFIELD BEACH, FL 33442  
 FL CA 900457 (954) 427-3076

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
10/14/21	CLIENT GLOBAL UPDATE

**RaceTrac**  
 RACETRAC PETROLEUM, INC.  
 200 GALLERIA PARKWAY SE  
 SUITE 900  
 ATLANTA, GEORGIA 30339  
 (770) 431-7600

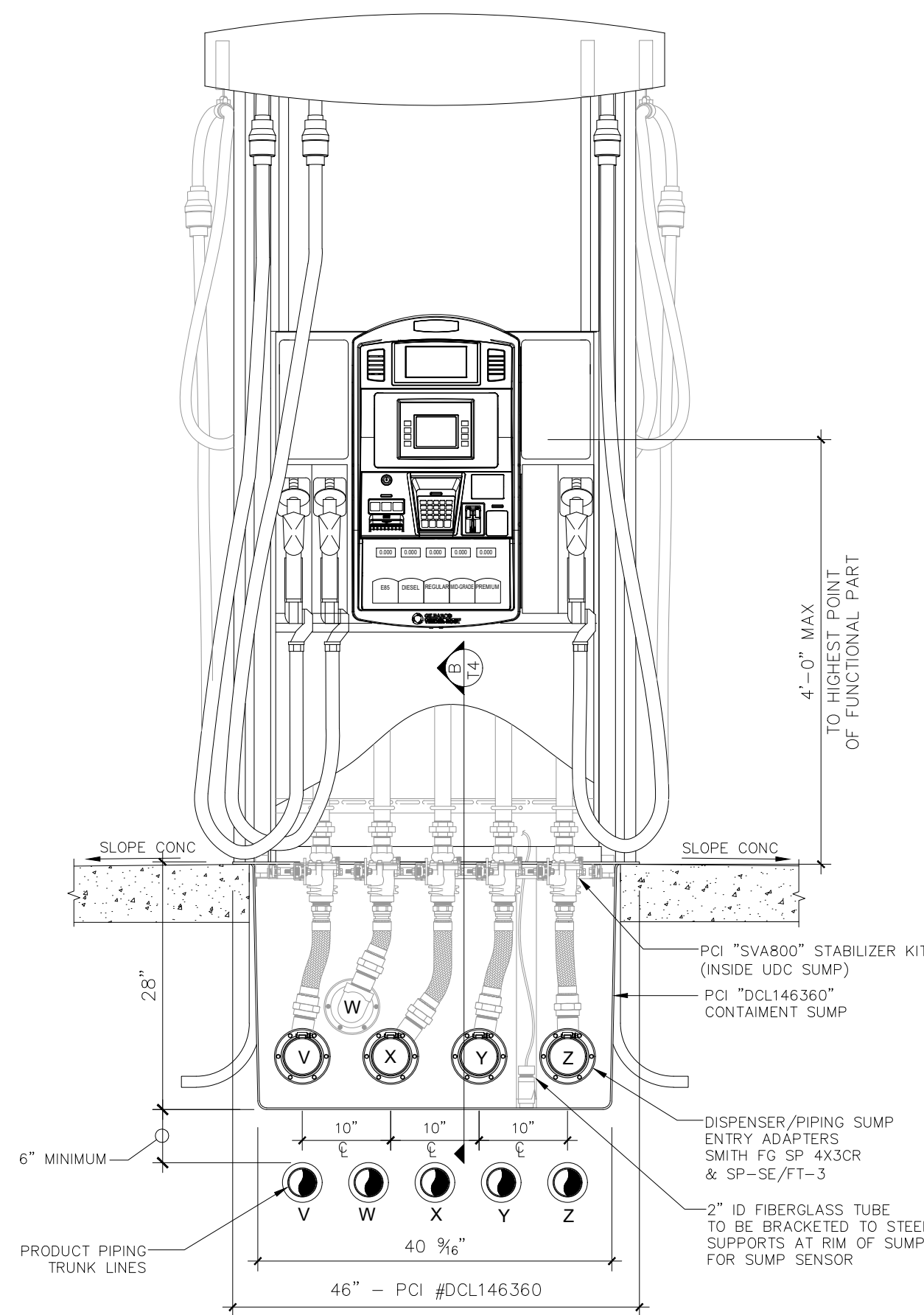
**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH FLORIDA**  
 8990 20th STREET  
 VERO BEACH, FLORIDA  
 RACETRAC PROJECT NUMBER  
**1422**

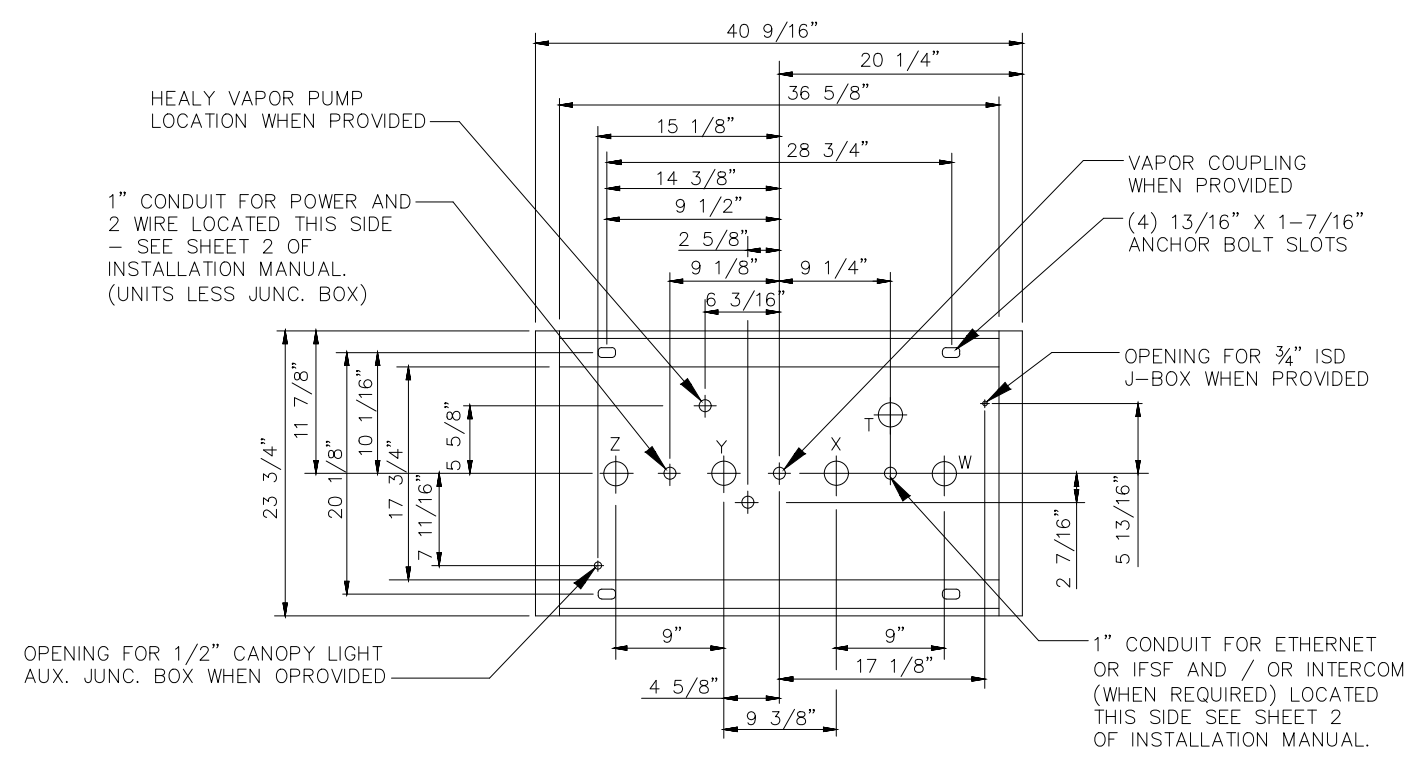
**PLAN SERIES**  
 2011 BR-RH-M90 0801  
**PLAN MODIFICATION NOTICE**  
 NO MODIFICATIONS APPLY  
 MODIFICATIONS APPLY  
 SPB NO. N/A DATE N/A  
 STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

**PROFESSIONAL SEAL**  
 DAIMIAN D. WIGHT LESLIE  
 LICENSE  
 No. 73113  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 DAIMIAN D. LESLIE  
 FL REG # 73113

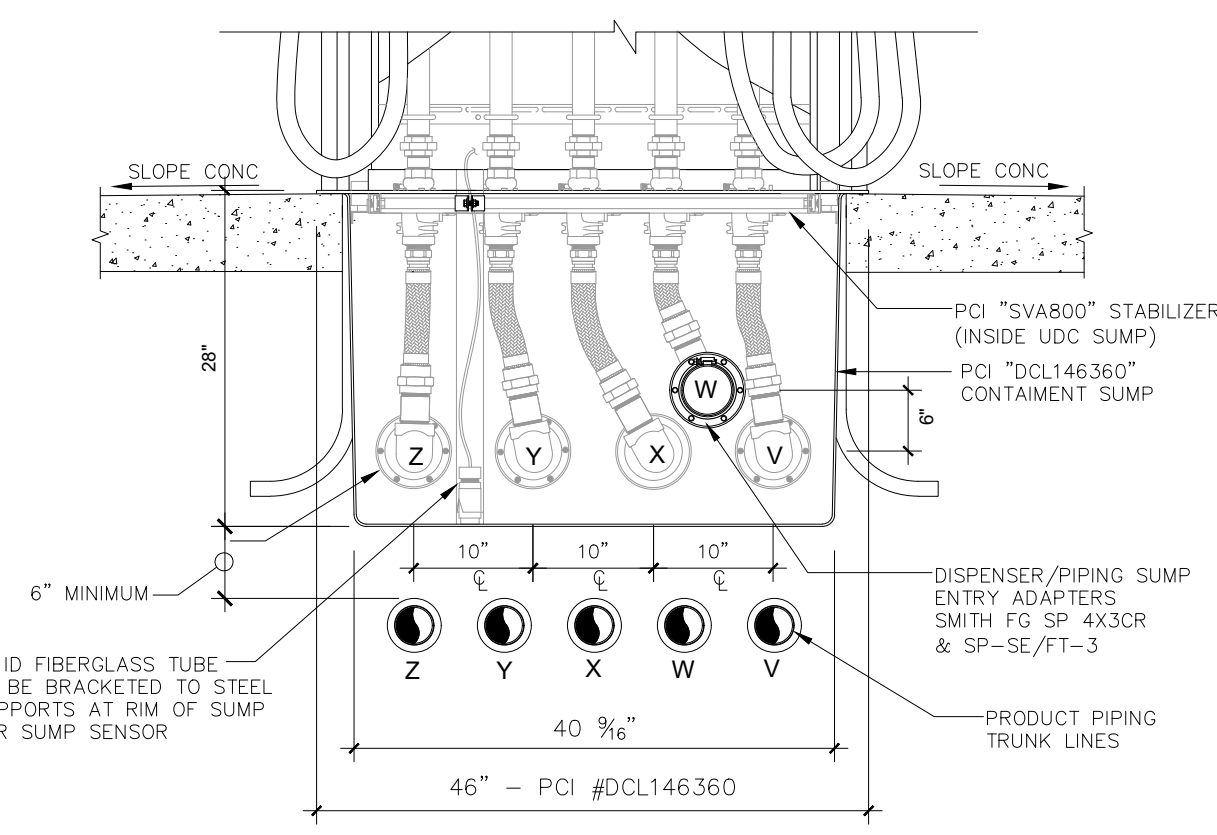
**PROJECT NUMBER**  
 19252  
**SHEET TITLE & NUMBER**  
**DISPENSER ISLAND DETAILS**  
**FILE NUMBER**  
**T3.0**  
 ISSUED FOR CONSTRUCTION



UDC - FRONT VIEW

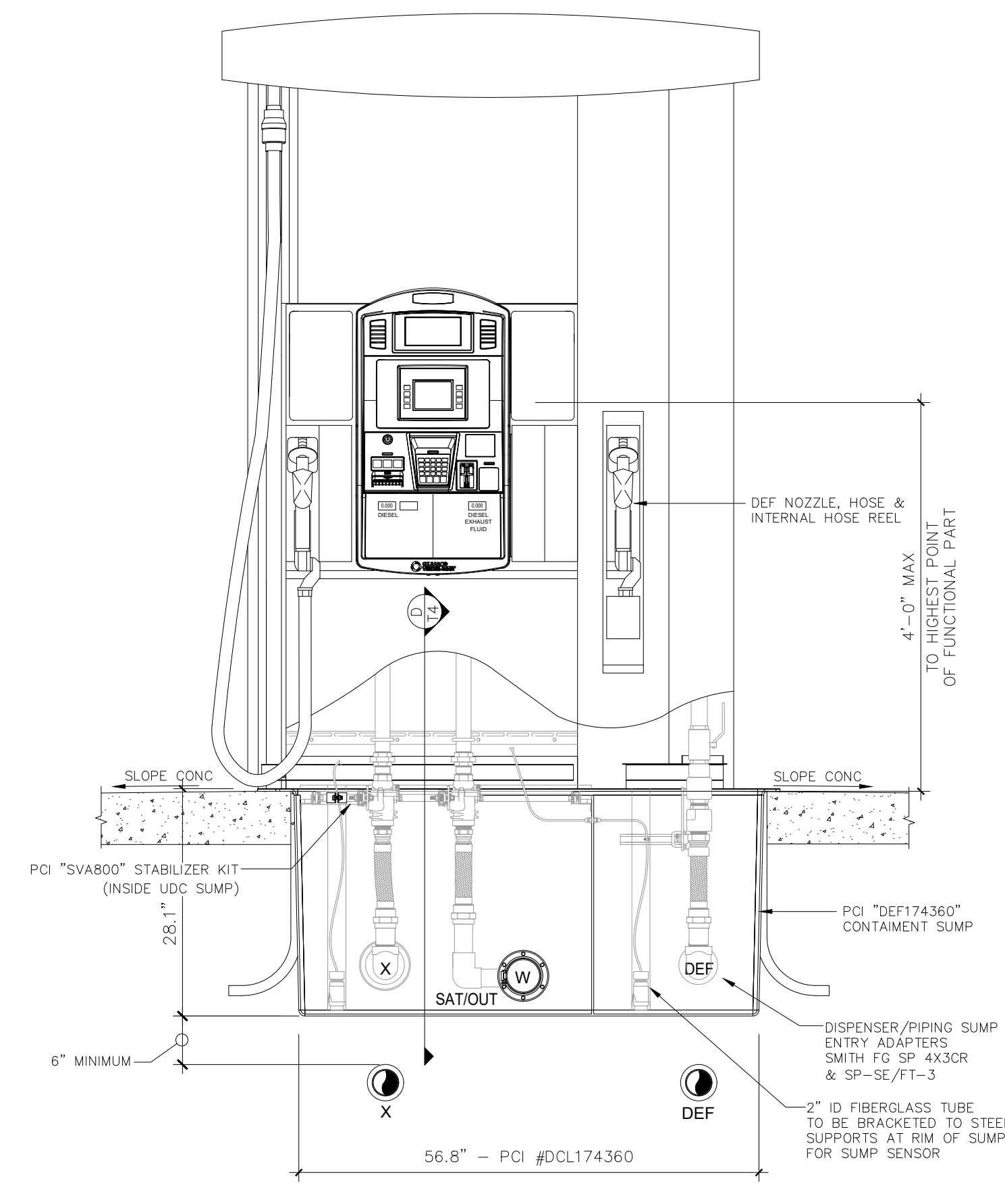


DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)

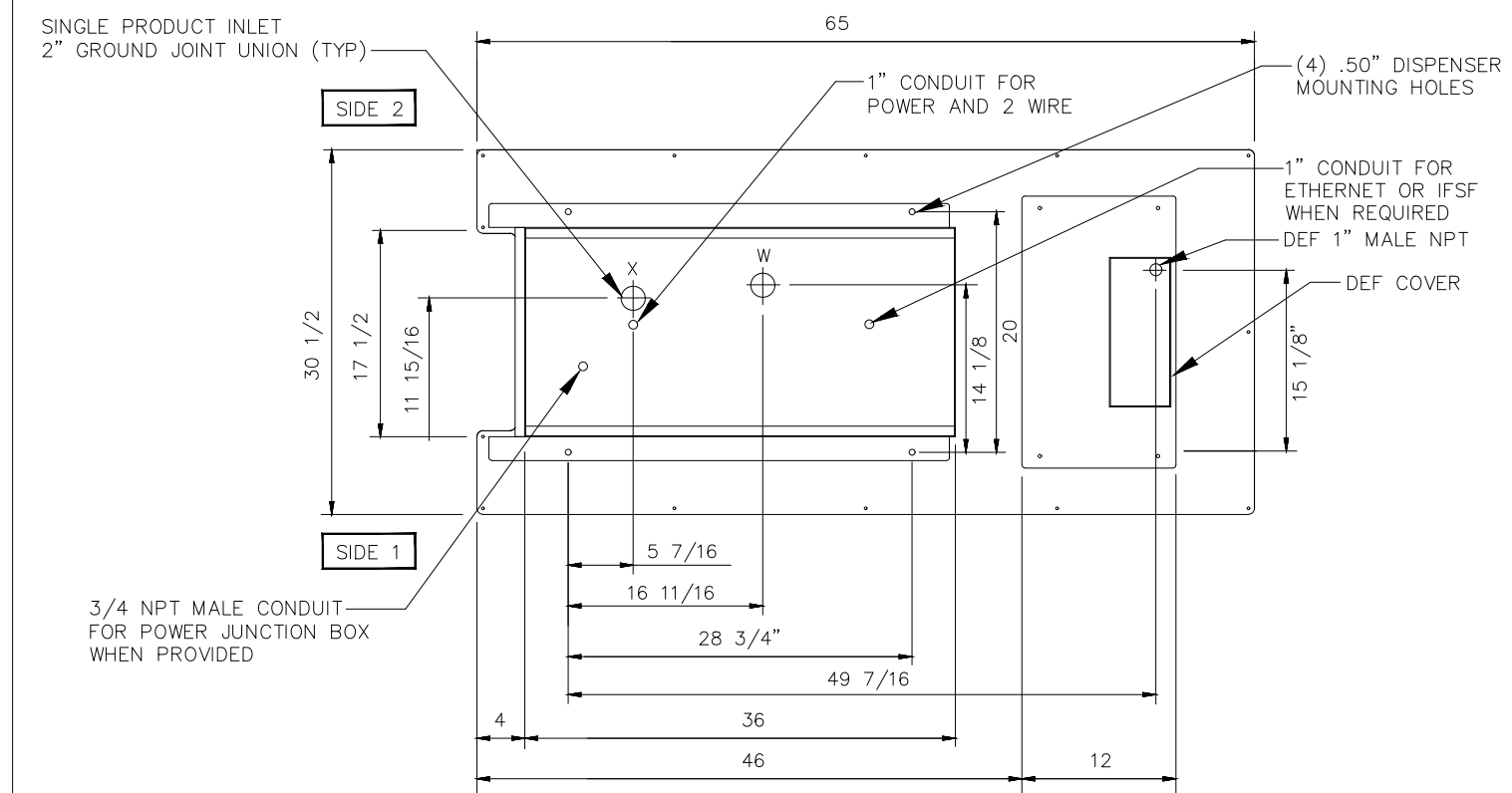


UDC - REAR VIEW

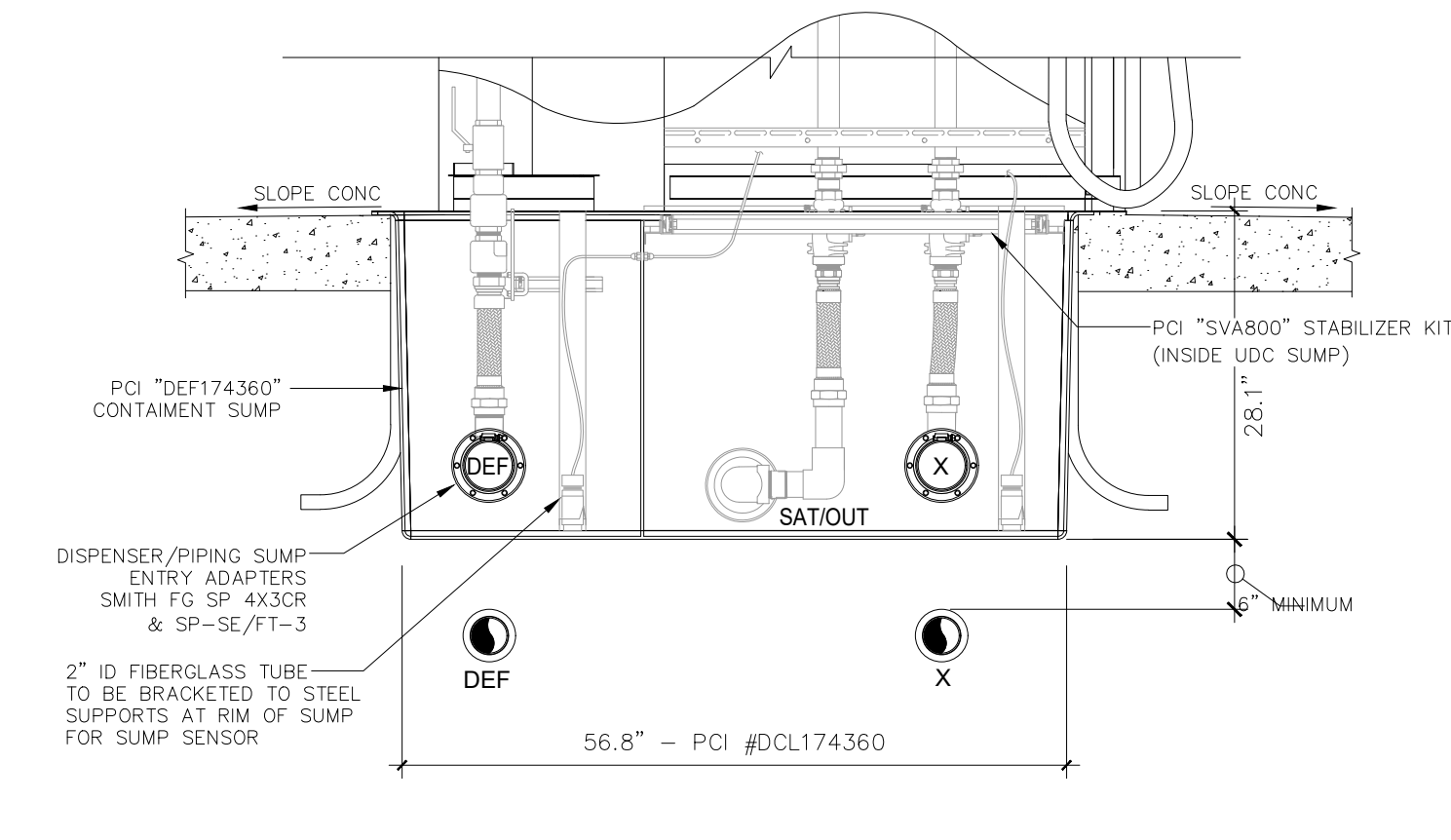
GILBARCO 700S 3+1+1 DISPENSER  
(AUTO FUEL ISLANDS)  
SCALE: 3/4"=1'-0"



UDC - FRONT VIEW

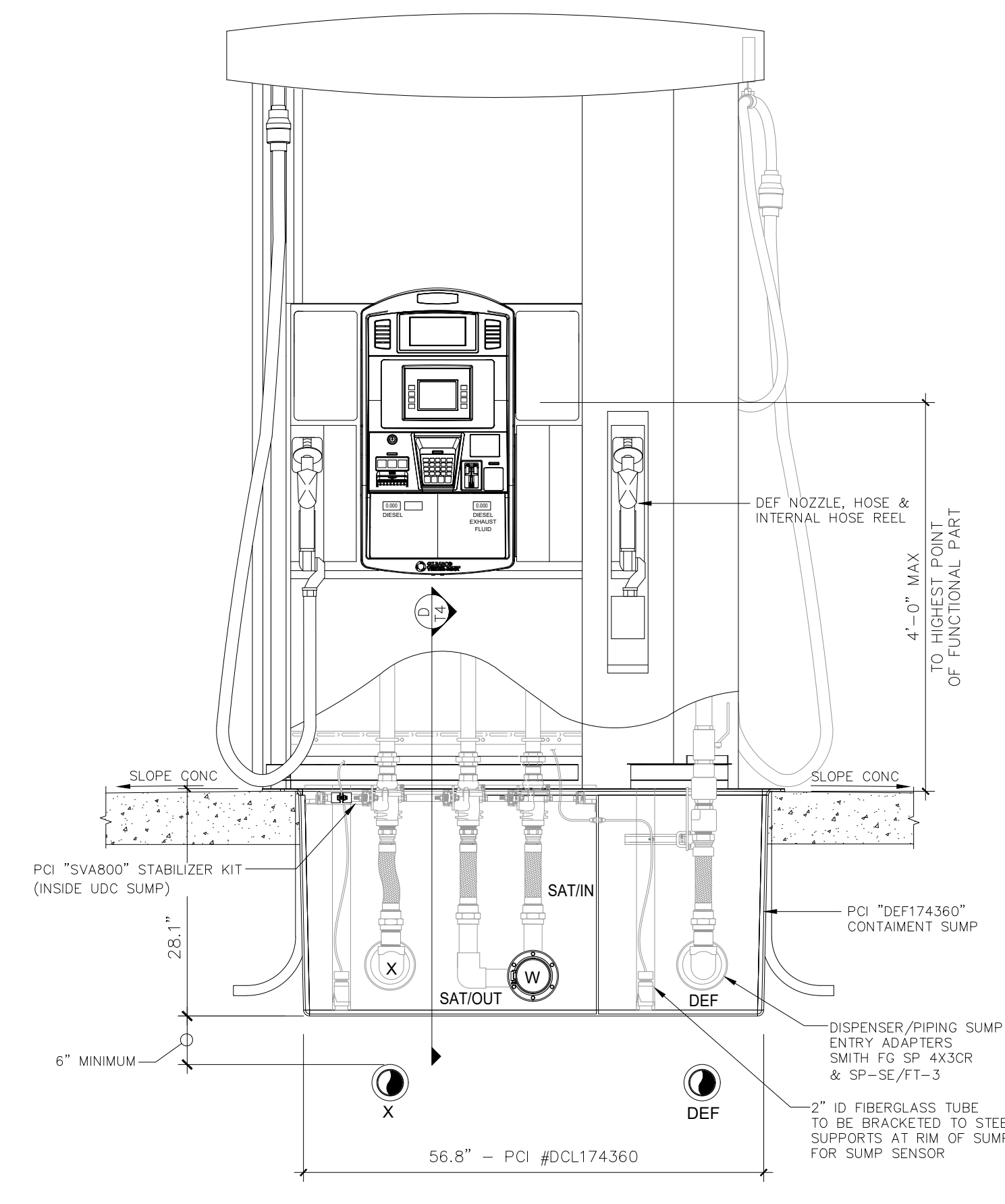


DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)

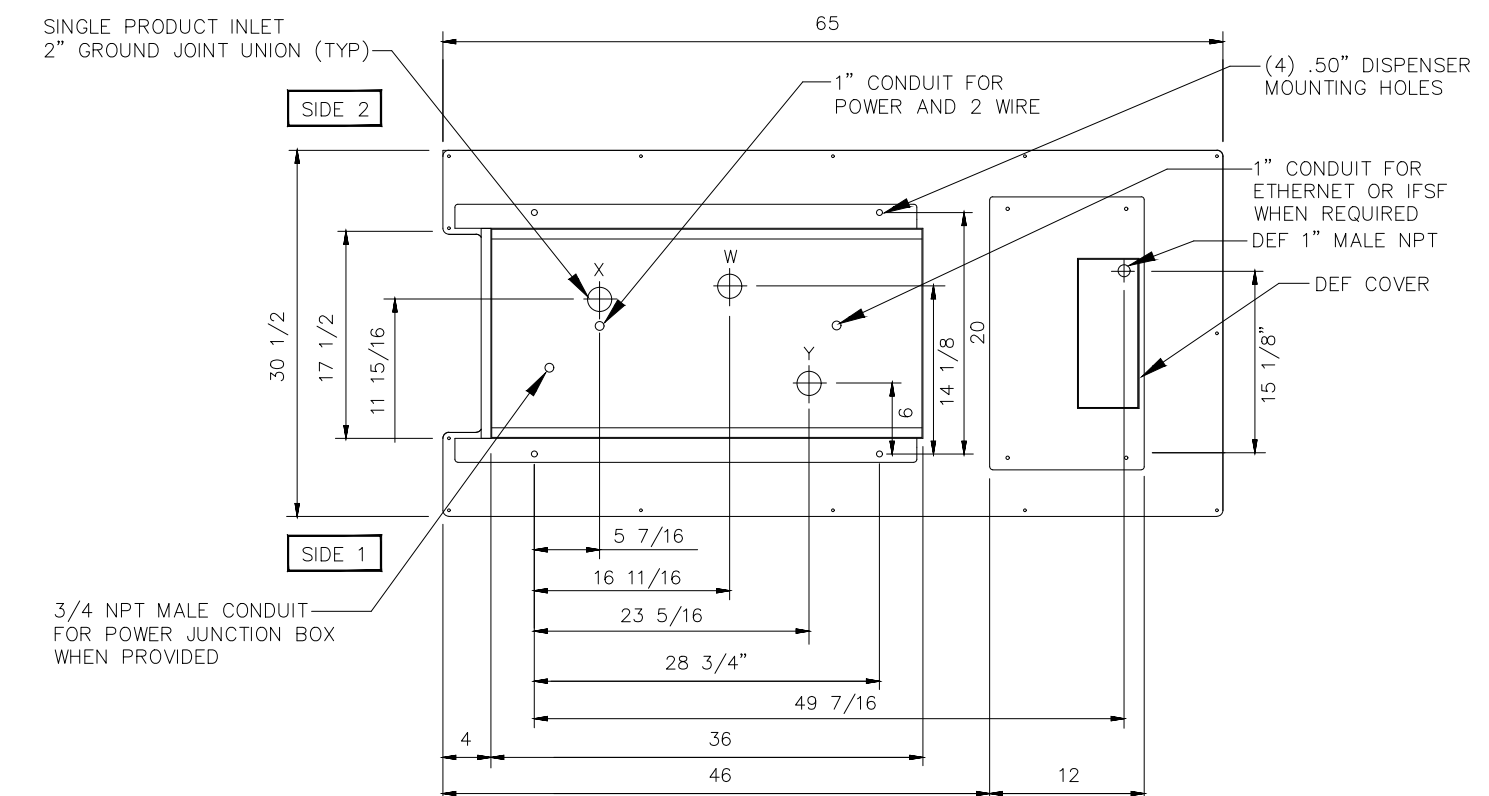


UDC - REAR VIEW

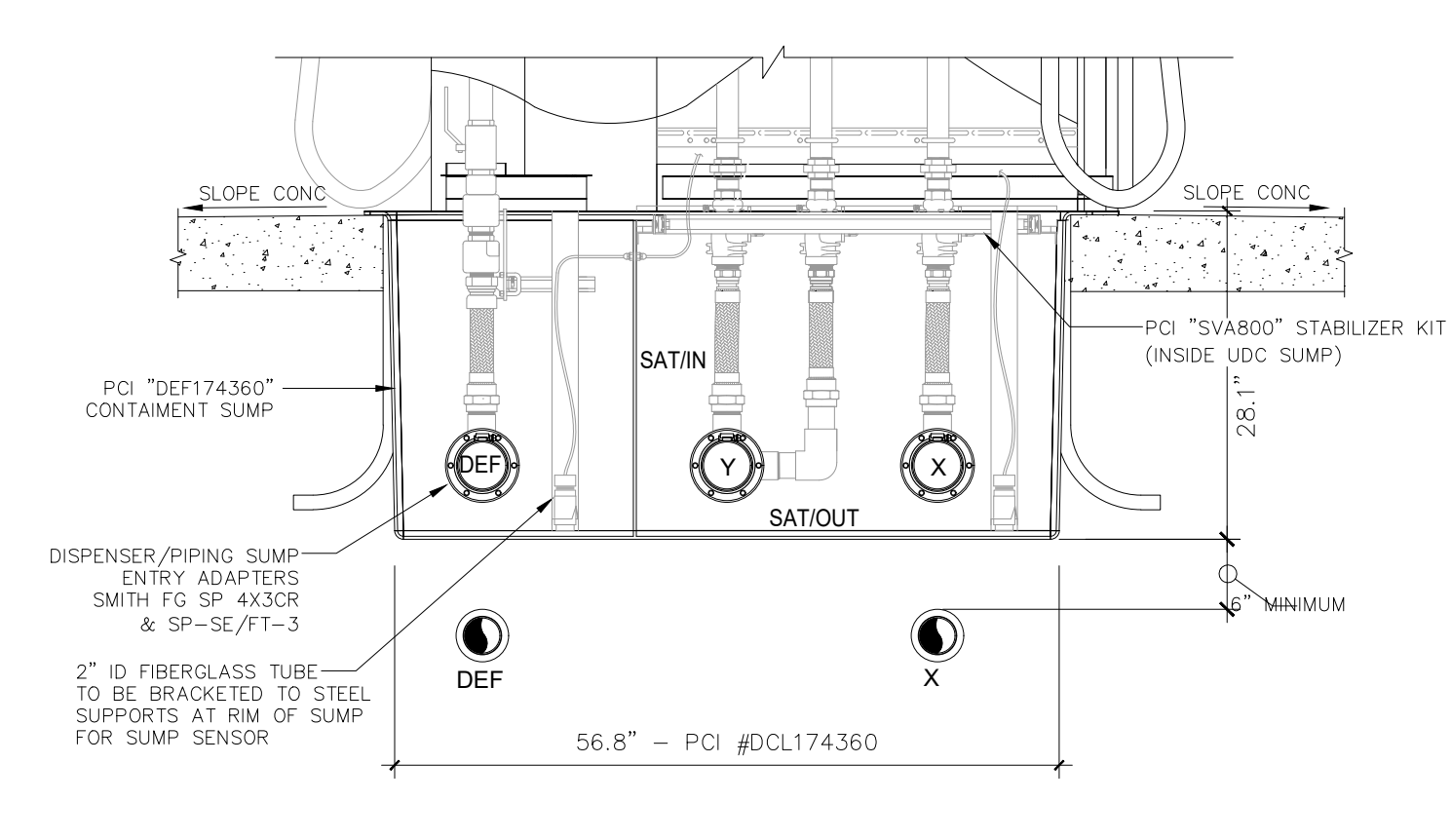
GILBARCO ENCORE - MASTER WITH  
DEF (TRUCK FUEL ISLANDS)  
SCALE: 3/4"=1'-0"



UDC - FRONT VIEW

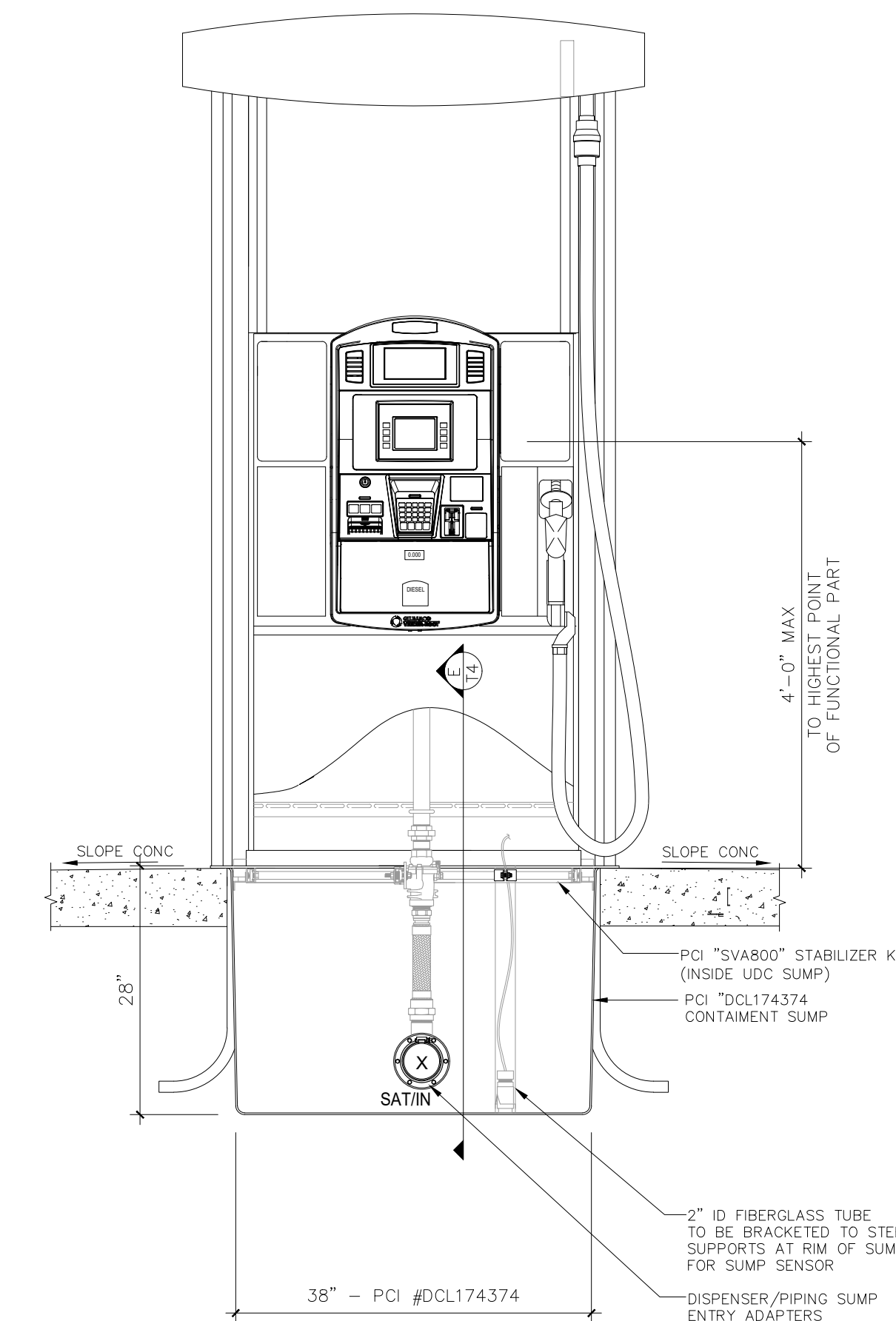


DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)

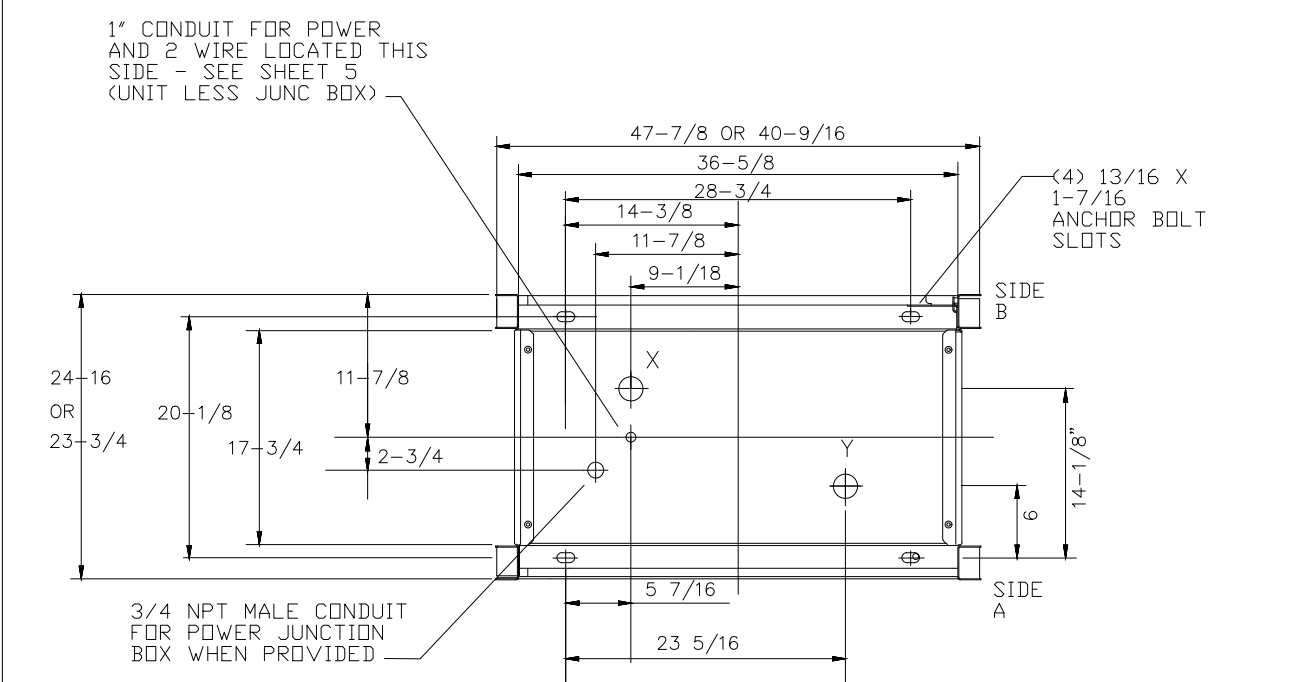


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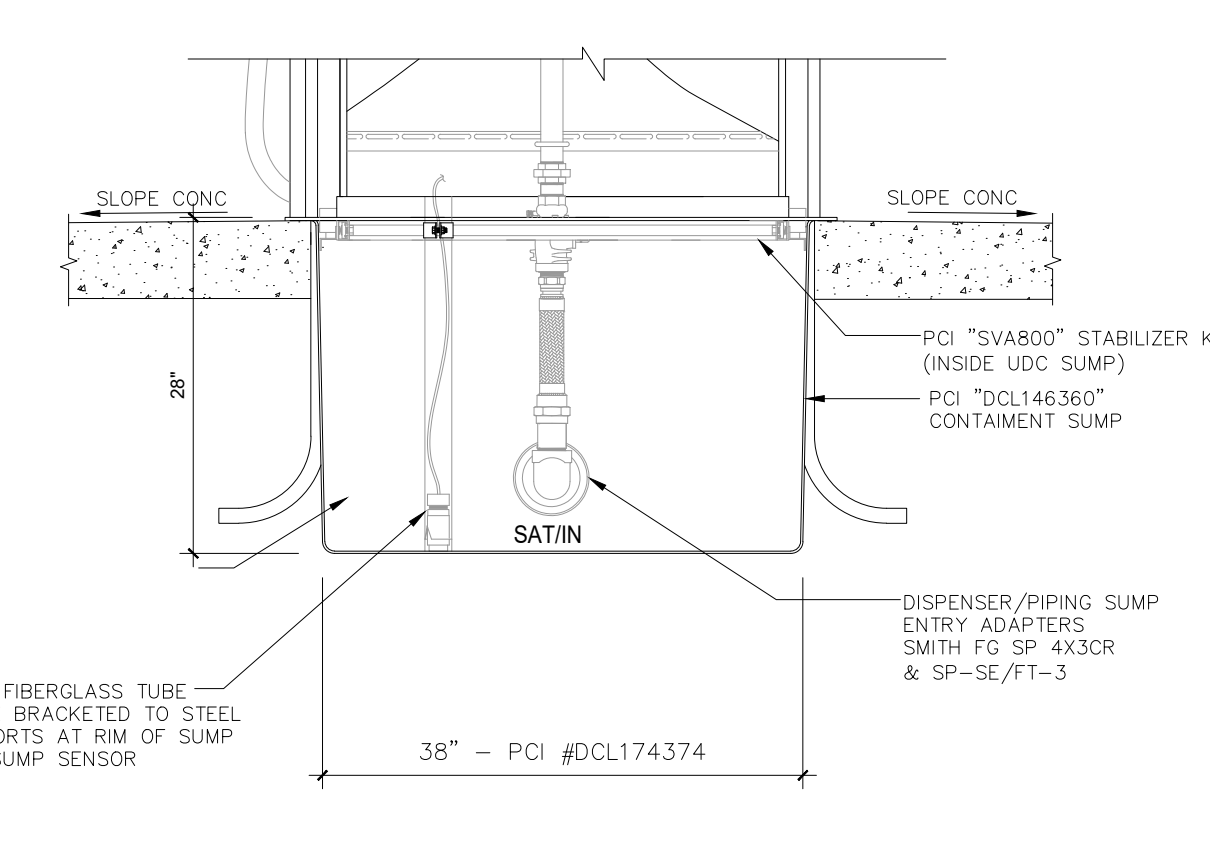
GILBARCO ENCORE - MASTER/SATELLITE  
COMBO WITH DEF (TRUCK FUEL ISLANDS)  
SCALE: 3/4"=1'-0"



UDC - FRONT VIEW



DISPENSER BASE DIAGRAM (PIPE & CONDUIT LOCATIONS)



UDC - REAR VIEW

GILBARCO NP5 - SINGLE SIDED  
SATELLITE (TRUCK FUEL ISLANDS)  
SCALE: 3/4"=1'-0"

PLANS PREPARED BY:

ISSUE/REVISION RECORD	DATE	DESCRIPTION
10/14/21	CLIENT GLOBAL UPDATE	

**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH  
FLORIDA  
8990 20th STREET  
VERO BEACH, FLORIDA**  
RACETRAC PROJECT NUMBER  
**1422**

**PLAN SERIES**  
**2011 BR-RH-M90 0801**  
**PLAN MODIFICATION NOTICE**  
 NO MODIFICATIONS APPLIED  
 MODIFICATIONS APPLY  
**SPB NO. N/A DATE N/A**

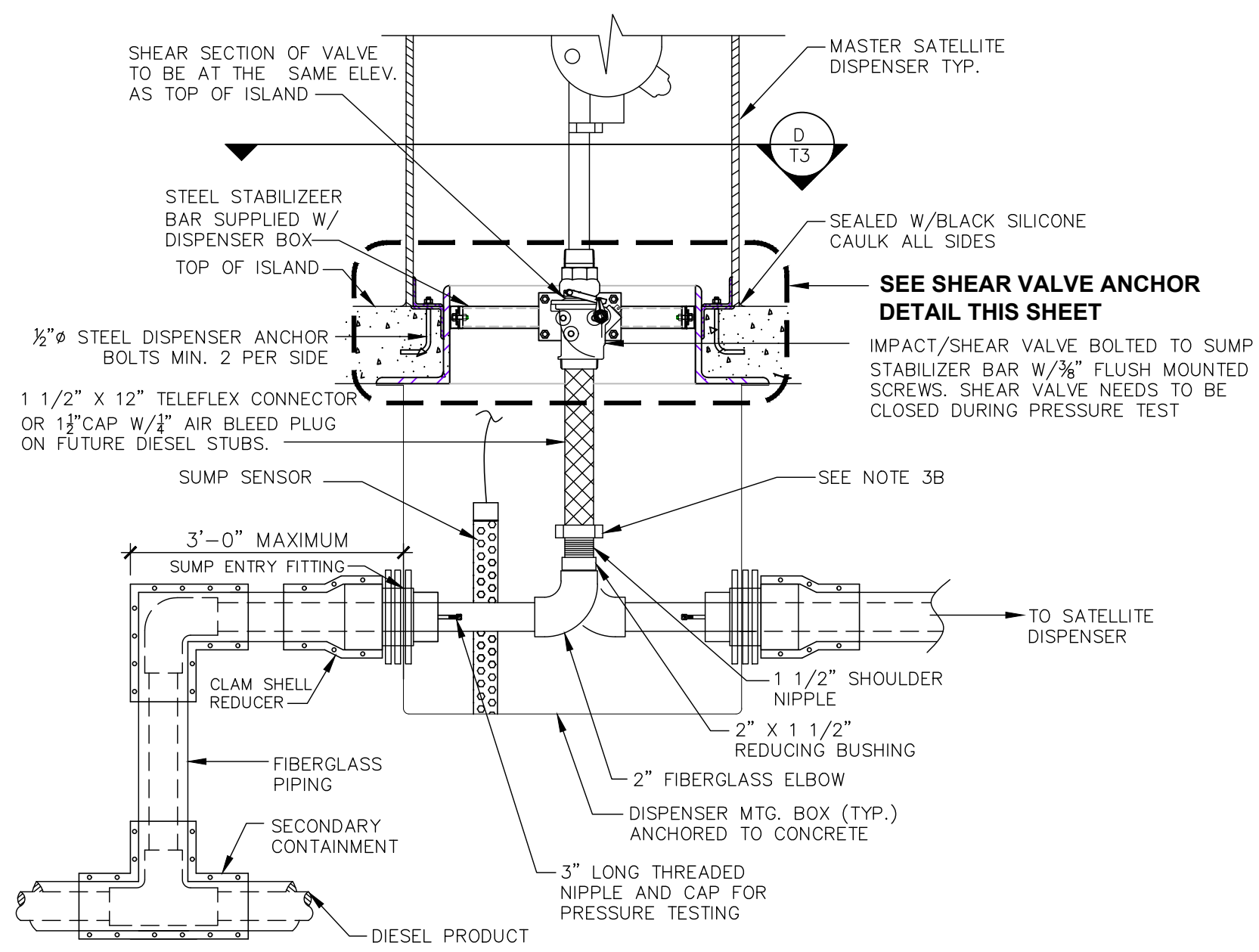
STANDARD PLAN BULLETINS (SPB) MODIFY  
THE PLAN SERIES SET NOTED ABOVE. THE  
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RACETRAC ENGINEERING AND  
CONSTRUCTION FOR ALL BULLETINS.

**PROFESSIONAL SEAL**  
DAMIAN D. LESLIE  
LICENSE No. 73113  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
DAIMIEN D. LESLIE  
FL REG # 73113

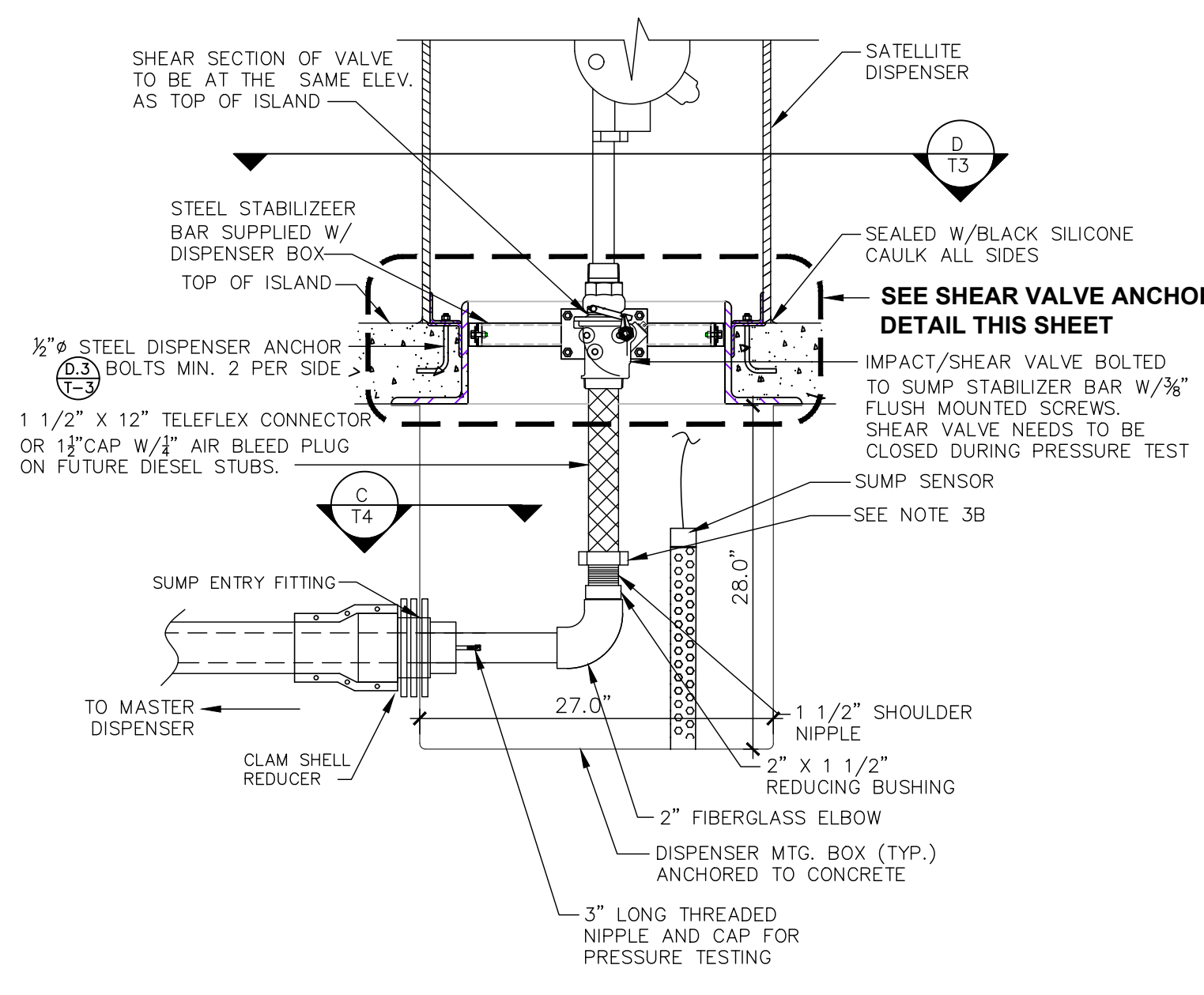
**PROJECT NUMBER**  
**19252**  
**SHEET TITLE & NUMBER**  
**DISPENSER &  
SUMP ELEVATION  
DETAILS**  
**FILE NUMBER**

**T3.1**  
ISSUED FOR CONSTRUCTION

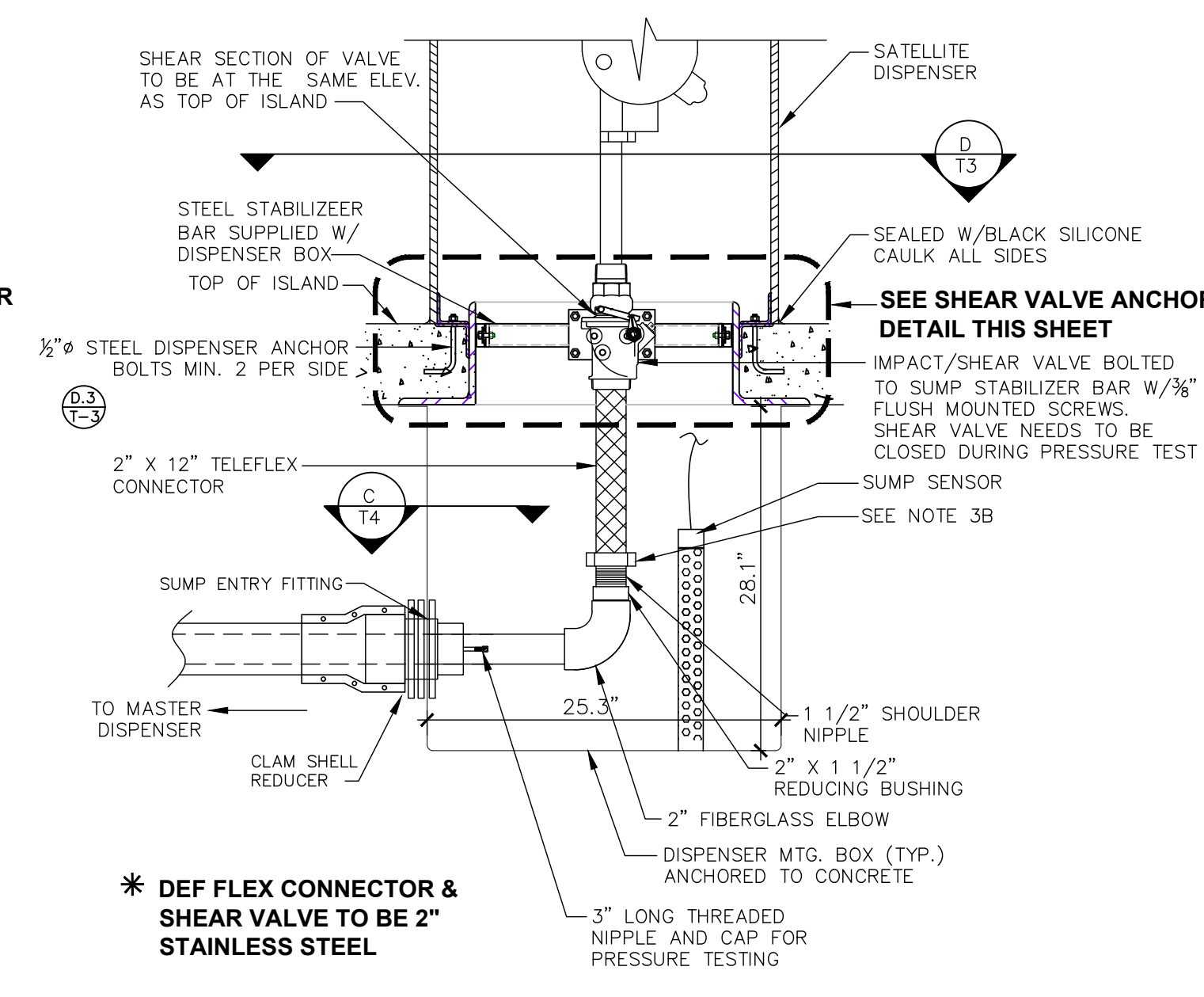
**CAP UN-USED SHEAR VALVES WITH THREADED SCHEDULE 40 STEEL PIPE CAP**



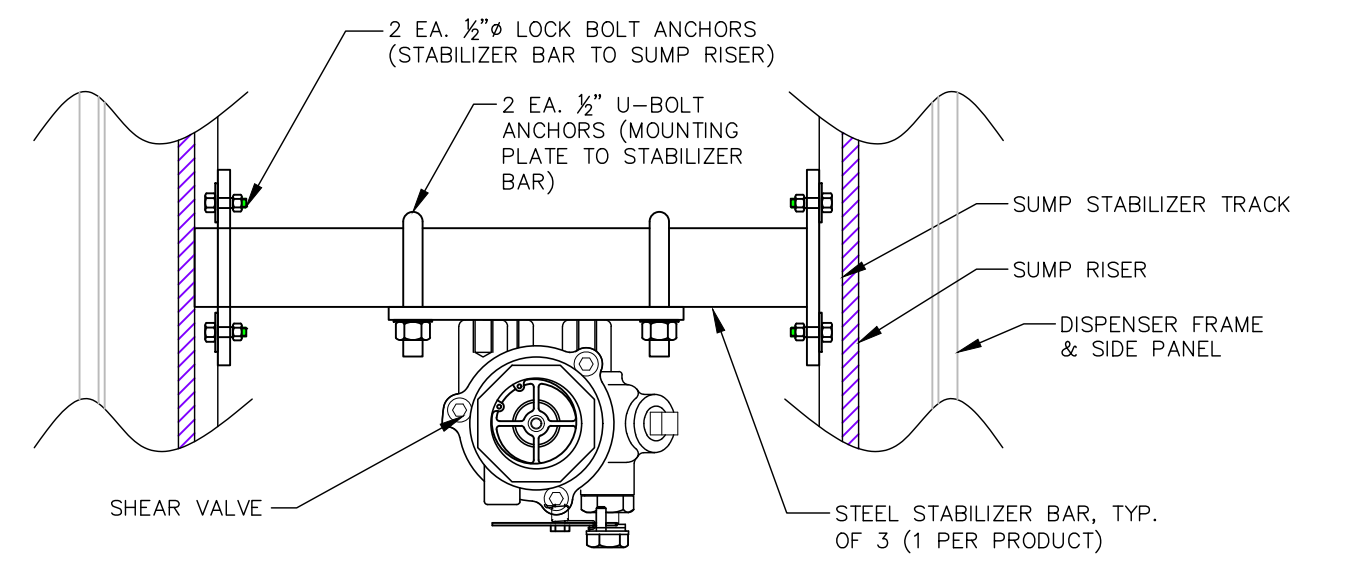
**D** INTERMEDIATE DISPENSER CONNECTION DETAIL - TRUCK ISLANDS  
T4.0 \* SEE NOTES, SHEET RT-T4.1 & T5.0 N.T.S.



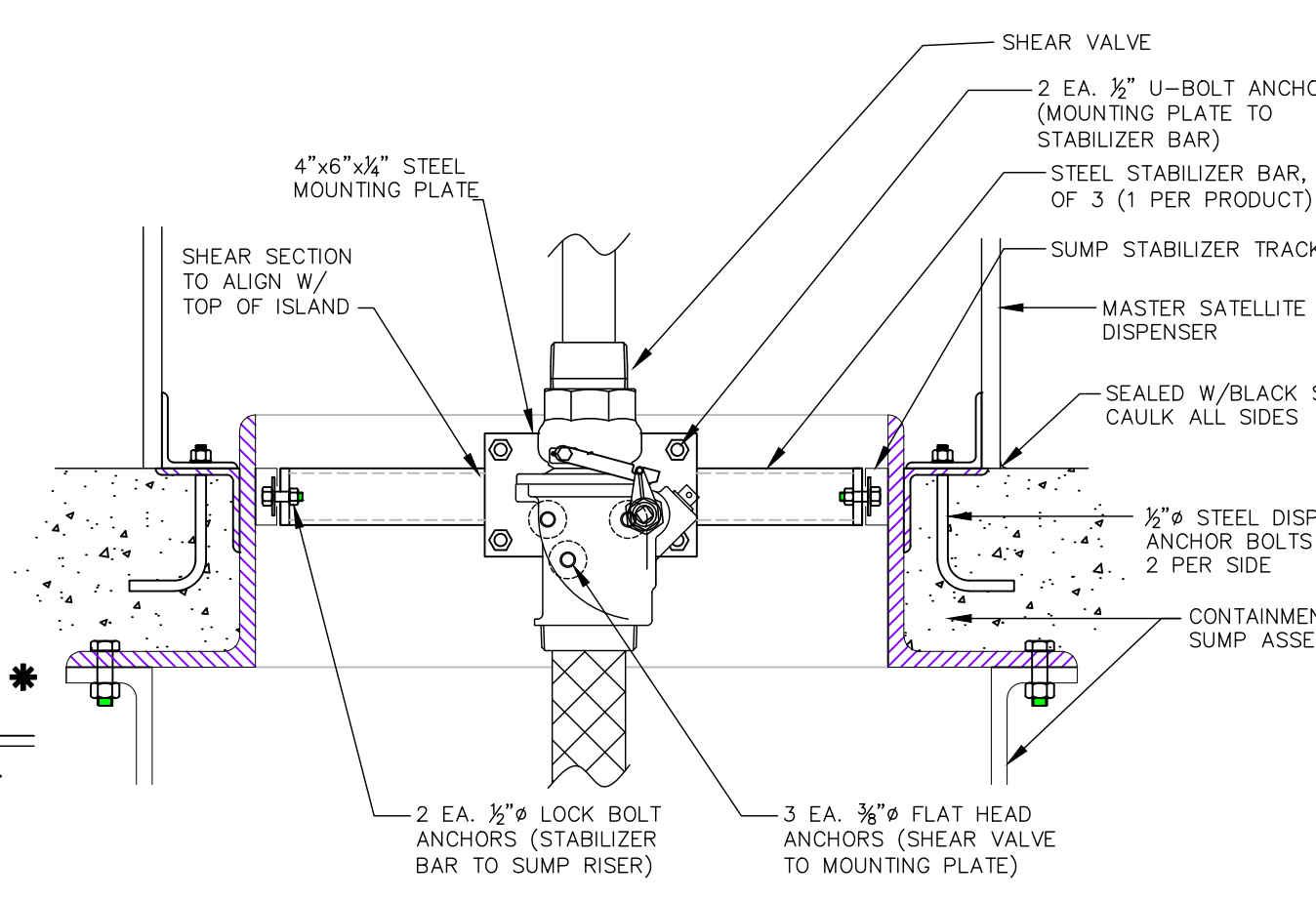
**E** END DISPENSER CONNECTION DETAIL - TRUCK ISLANDS  
T4.0 \* SEE NOTES, SHEET RT-T4.1 & T5.0 N.T.S.



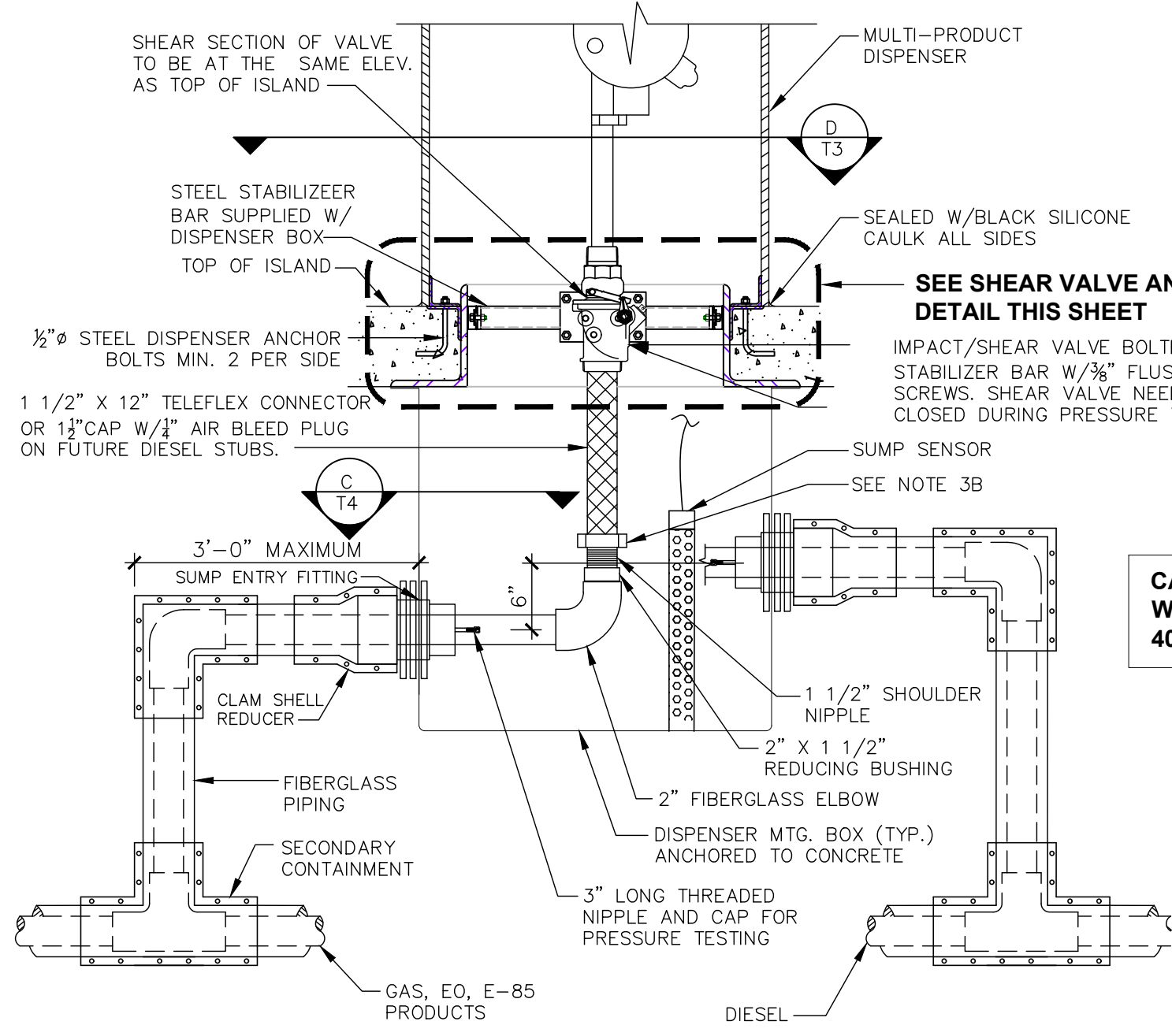
**E.1** DEF DISPENSER CONNECTION DETAIL - TRUCK ISLANDS  
T4.0 \* SEE NOTES, SHEET RT-T4.1 & T5.0 N.T.S.



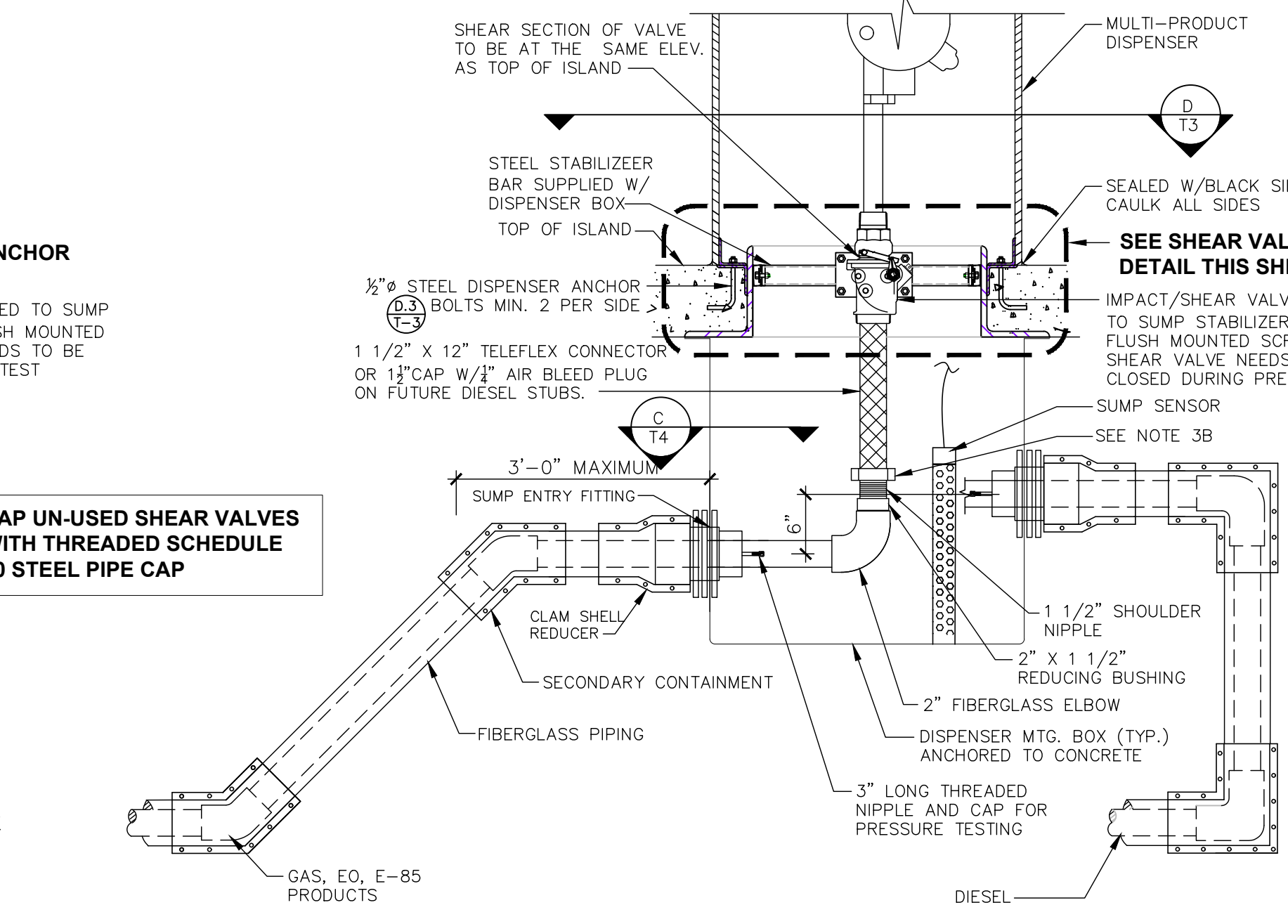
SHEAR VALVE ANCHOR DETAIL - PLAN - TRUCK ISLANDS  
N.T.S.



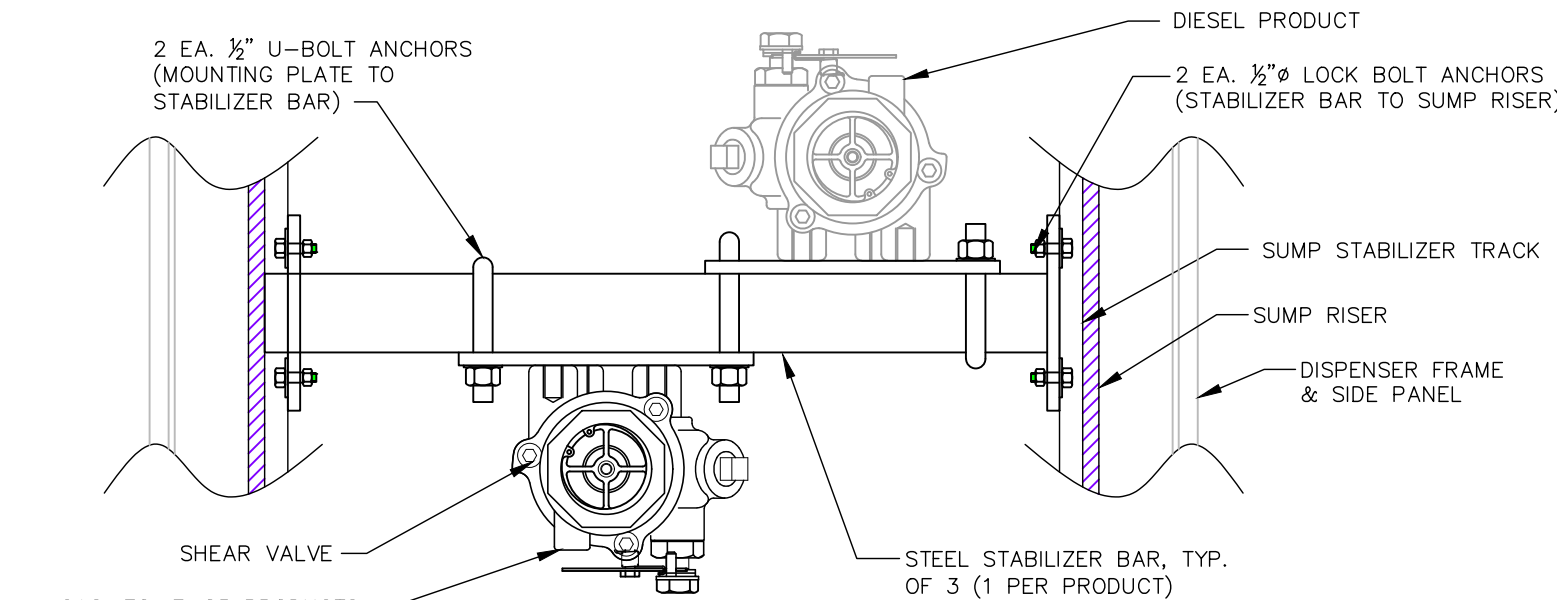
SHEAR VALVE ANCHOR DETAIL - ELEVATION - TRUCK ISLANDS  
N.T.S.



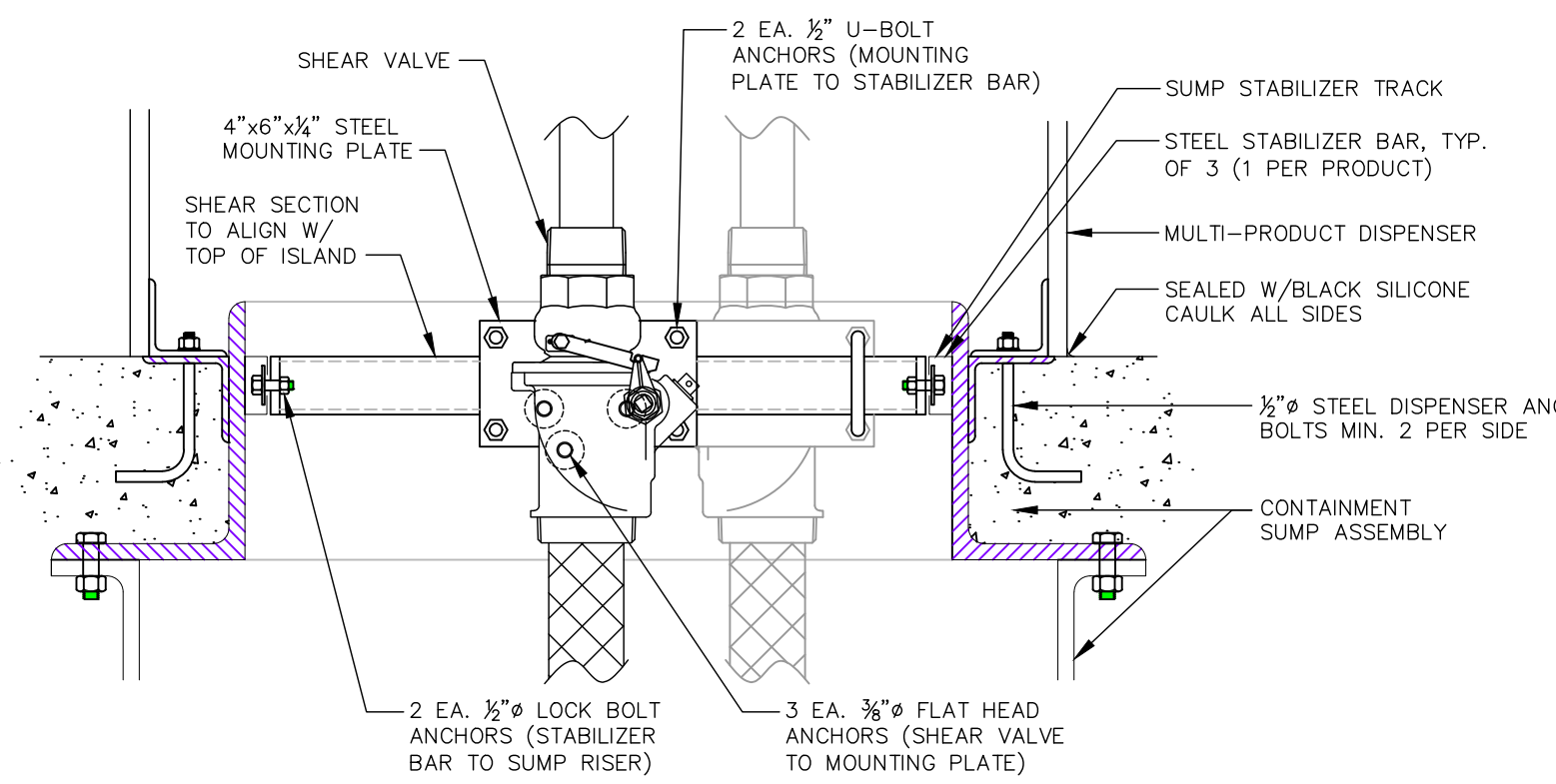
**B** INTERMEDIATE DISPENSER CONNECTION DETAIL - AUTO ISLANDS  
T4.0 \* SEE NOTES, SHEET RT-T4.1 & T5.0 N.T.S.



**C** END DISPENSER CONNECTION DETAIL - AUTO ISLANDS  
T4.0 \* SEE NOTES, SHEET RT-T4.1 & T5.0 N.T.S.



SHEAR VALVE ANCHOR DETAIL - PLAN - AUTO ISLANDS  
N.T.S.



SHEAR VALVE ANCHOR DETAIL - ELEVATION - AUTO ISLANDS  
N.T.S.

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**DESIGN PROFESSIONALS**  
**MDM**  
PLANS PREPARED BY:  
engineering • environmental • construction  
2151 W HILLSBORO BLVD. STE 401 DEERFIELD BEACH, FL 33442  
(561) 427-3070  
FL CA 000457

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
10/14/21	CLIENT GLOBAL UPDATE
04/01/22	CLIENT GLOBAL UPDATE

**RaceTrac**  
RACETRAC PETROLEUM, INC.  
200 GALLERIA PARKWAY SE  
SUITE 900  
ATLANTA, GEORGIA 30339  
(770) 431-7600

**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH FLORIDA**  
8990 20th STREET  
VERO BEACH, FLORIDA  
RACETRAC PROJECT NUMBER  
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**PLAN SERIES**  
2011 BR-RH-M90 0801  
**PLAN MODIFICATION NOTICE**  
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**PROFESSIONAL SEAL**  
DAIMIAN D. LESLIE  
LICENSE  
No. 73113  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
DAIMIAN D. LESLIE  
FL REG # 73113

**PROJECT NUMBER**  
19252  
**SHEET TITLE & NUMBER**  
**DISPENSER SUMP DETAILS**

**FILE NUMBER**  
**T4.0**  
ISSUED FOR CONSTRUCTION



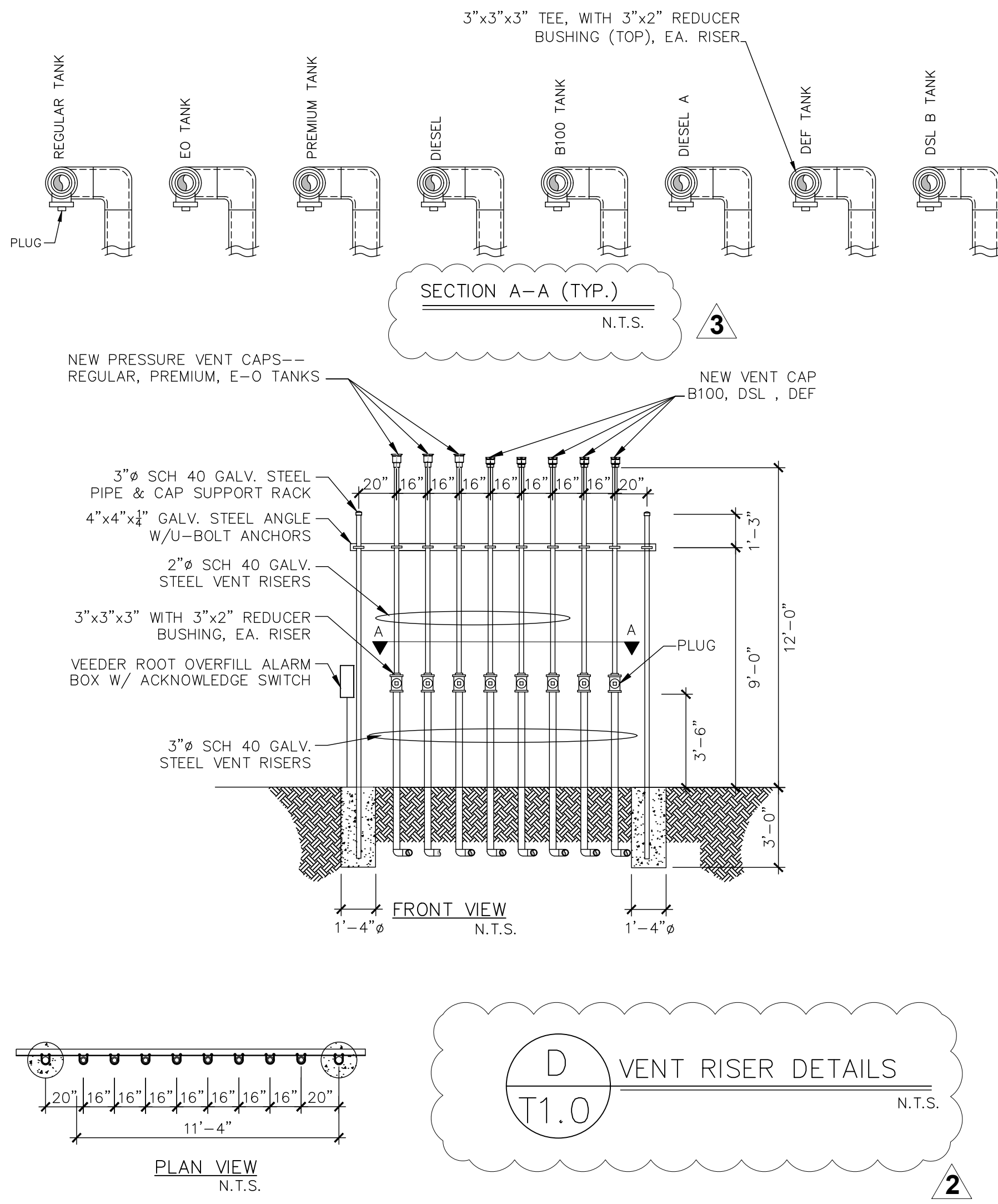
**NOTES:**

- ALL CLAMPS ON SECONDARY CONTAINMENT TO BE TORQUED TO 60 FT. LBS.
- SEE SITE PLAN FOR SPECIFIC TANK AND DISPENSER QUANTITIES, LOCATIONS, CAPACITIES, ETC.
- ALL THREADED METAL PIPE CONNECTIONS TO BE MADE UP WITH GASOLA-E-SEAL FOR GASOLINE LINES AND JOMAR "THE HEAVYWEIGHT" FOR DIESEL LINES. NO SUBSTITUTIONS WILL BE ACCEPTED.
- ALL CONNECTIONS OF FIBER GLASS PIPE THREADED COUPLINGS TO METAL PIPE SHALL BE DONE USING 7000 OR 8000 SERIES ADHESIVE.
- CONTRACTOR TO CHECK ALL FACTORY CONNECTIONS ON DISPENSER MOUNTING BOXES FOR ADEQUATE SEALING OF PRODUCT.
- ALL FIBERGLASS PIPING & FITTINGS TO BE A.O. SMITH RED THREAD II FIBERGLASS
- ALL PIPING (PRODUCT, STAGE TWO VAPOR RECOVERY, SECONDARY CONTAINMENT) TO SLOPE 1/8" PER FOOT BACK TO TANK.
- USE ONLY 8000 OR 7000 SERIES ADHESIVES TO JOIN PRIMARY PRODUCT AND SECONDARY CONTAINMENT PIPE AND FITTINGS (DS-8014, DS-8024, DS-8055, DS-8069, DS-7014, DS-7024, OR DS-7069 ADHESIVE KITS) FOR ALCOHOLS AND ALCOHOL-GASOLINE MIXTURES. WHEN JOINING SECONDARY CONTAINMENT FITTINGS, A SPECIAL FILLER FROM SMITH FIBERGLASS PRODUCTS MUST BE ADDED TO THE 8000 AND 7000 SERIES ADHESIVES. WHEN USING THESE ADHESIVES, FOLLOW THE INSTRUCTIONS PACKAGED WITH EACH ADHESIVE KIT.
- ALL DISPENSER BOX PENETRATIONS TO BE TESTED WITH WATER FOR LEAKS PRIOR TO BACKFILLING AROUND BOX.
- ALL STAGE TWO VAPOR RECOVERY LINES TO BE BLOCK TESTED BY G.C. PRIOR TO PAVING OVER PIPING.
- G.C. RESPONSIBLE FOR PAINTING ALL EXPOSED METAL ON VENT RISERS AND SUPPORTS.
- ALL GALVANIZED RISER PIPE & FITTINGS THAT COMES IN CONTACT WITH BACKFILL SOIL OR PEA GRAVEL IS TO BE COATED WITH A BITUMINOUS COATING AND WRAPPED W/3M TAPE FOR CORROSION PROOFING.
- ACCESS TO SECONDARY IS OPEN IN AT LEAST ONE FITTING IN THE SUMP.
- ALL PIPING AND ELECTRICAL INSTALLATIONS MUST CONFORM TO ALL APPLICABLE REGULATIONS INCLUDING NFPA30, FLAMMABLE & COMBUSTIBLE LIQUIDS CODE; NFPA30A, AUTOMOTIVE & MARINE SERVICE STATION CODE; NFPA70, NATIONAL ELECTRICAL CODE. DO NOT "DAISY CHAIN" THE DISPENSER POWER CIRCUIT TO ANY OTHER EQUIPMENT.
- SLOPE PIPING FROM TANK TO DISPENSER UPWARDS, AVOIDING AIR OR LIQUID TRAPS.
- USE UNIVERSAL JOINTS AT DISPENSER TO ALLOW FOR GROUND MOVEMENT.
- USE ANY OR ALL CONDUIT TAPS SHOWN TO MAKE ELECTRICAL CONNECTIONS TO DISPENSER.
- FIRMLY MOUNT DISPENSER TO THE ISLAND USING THE ANCHOR BOLT LOCATIONS SHOWN.
- BREAKAWAY DEVICES ARE EXAMPLES OF REQUIREMENTS STATED IN THE NFPA30A AUTOMOTIVE & MARINE SERVICE STATION CODE. THESE, AS WELL AS ANY OTHER SAFETY DEVICES REQUIRED BY NFPA30 & 30A, MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS.
- SPEAKER INSTALLATION WIRING IS LOCATED IN JUNCTION BOX. CONNECT INTERCOM CIRCUIT TO A LISTED CLASS 2 POWERED INTERCOM ONLY WITH BELDEN #8723, 22GA, 2-PAIR, 300 VOLT, SHIELDED CABLE. WIRES BACK TO INTERCOM CONSOLE MUST BE RUN IN SEPARATE DEDICATED CONDUIT.



FUELING EQUIPMENT LIST																																																																																																																																																																																																																																																			
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BLUE	owner	EQ-708	A1004EVR-317A-V	SINGLE WALL SPILL CONT NO DRAIN, ORANGE/VAPOR	owner	EQ-524	A1005-6165F4-B	15 GL DW REMOTE FILL SPILL CONT, GLASS-ON, NO DRAIN, LCX STUB, LIGHT BLUE/BIO DIESEL	owner	EQ-524	A1005-6165F4-E	15 GL DW REMOTE FILL SPILL CONT, GLASS-ON, NO DRAIN, LCX STUB, BRONZE	owner	EQ-524	A1005-6165F4-R	15 GL DW REMOTE FILL SPILL CONT, GLASS-ON, NO DRAIN, LCX STUB, WHITE	owner	EQ-524	A1005-6165F4-U	15 GL DW REMOTE FILL SPILL CONT, GLASS-ON, NO DRAIN, LCX STUB, RED	owner	EQ-524	RFBWP-5H0RT-4	Stainless Steel Remote Fill Box w/Drain, 4" entry	owner		500-311	4" Stainless Steel Ball Valve	owner		1409140	4" Stainless Steel Adaptor	owner		1401140	4" Stainless Steel Cap	owner		FSA-400-5	Face Seal Adaptor - Short - EVR	owner		A11004EVR-056	A1100 4" X15" DUAL POINT OVERFILL VALVE - EVR	owner	EQ-414	A1100-056SRFK	A1100 REMOTE FILL IN SUMP OVERFILL VALVE W/KIT - EVR	owner	EQ-414	7150-410C	7150 OVERFILL VALVE - 10" TANK	owner	EQ-697	7150-410CTB	7150 OVERFILL VALVE - BIO DIESEL - 10" TANK	owner	EQ-697	615K-44CB	JACK SCREW KIT FOR CAST IRON BASE SPILL BUCKET	owner		615K-4RMT	JACK SCREW KIT FOR REMOTE FILL	owner		615ALP-EVR	LOW PROFILE SWIVEL ADAPTOR - EVR	owner		634TT-7085-EVR	4" DURATUFF CAP - EVR	owner		116-7085	4" PIPE CAP	owner		233-4430	4X4X3 EXTRACTOR W/O CAGE	owner		233-4433	4X4X3X EXTRACTOR W/O CAGE	owner		98-1810	18" WATER TIGHT MANHOLE	owner		100-110	3" BRASS BALL VALVE	owner		500-310	3" STAINLESS STEEL 3-PIECE BALL VALVE	owner		62M-0375	62 MONITOR CAP & ADAPTOR W/3/8" GROMMET	owner		ISTKMRV54-VL2-26	4HP IST W/PRECISION CHECK VALVE, IFS, VL2, 26" RISER	owner	EQ-335	ISTKMRV52-VL2-26	2HP IST W/PRECISION CHECK VALVE, IFS, VL2, 26" RISER	owner	EQ-335	MAGVFC	VARIABLE FREQUENCY CONTROLLER	owner		403470901	5GL PHASE VL2 102 IN-166 IN VARIABLE LENGTH DEF SUBMERSIBLE TURBINE PUMP KIT	owner	EQ-335	FF20X12M346EZB9	2"x12" FLEX CONNECTOR W/EZ 90 & BRASS BALL VALVE	owner		FF20X12M346EZB9SS	2"x12" STAINLESS STEEL FLEX CONNECTOR W/EZ 90 & STAINLESS STEEL BALL VALVE	owner		400137937	Syphon Check Valve	owner		100-10855G	2" Brass Ball Valve	owner		100-102	3/8" Brass Ball Valve	owner		184-2500 MB	4" x 2" Double Tap Bushing	owner		39CD-RL10	39 1/2" Roto-Lock Manhole	owner		varies	monitoring well casing w/ locking cap (only where required)	GC		varies	12" monitoring well manhole (only where required)	owner		<b>Transition Sump Equipment</b>				<table border="1"> <thead> <tr> <th>Vendor Part #</th> <th>PRODUCT DESCRIPTION</th> <th>Furnished By:</th> <th>EQ.#</th> </tr> </thead> <tbody> <tr> <td>TS484860-3B0</td> <td>48" PCI transition sump</td> <td>owner</td> <td>EQ-203</td> </tr> <tr> <td>39CD-RL10</td> <td>39 1/2" Roto-Lock Manhole</td> <td>owner</td> <td></td> </tr> <tr> <td>100-10855G</td> <td>2" Brass Ball Valve</td> <td>owner</td> <td></td> </tr> <tr> <td>100-968</td> <td>2" Stainless Steel Ball Valve</td> <td>owner</td> <td></td> </tr> <tr> <td>FF20X18HM5XEZF</td> <td>2" x 18" Male x EZ Fit, Straight Female Flex Connector</td> <td>owner</td> <td></td> </tr> <tr> <td>FF20X18HM5XEZFSS</td> <td>2" x 18" Male x EZ Fit, Straight Female Flex Connector - 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**RaceTrac**  
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**DESIGN PROFESSIONALS**

**MDM**  
PLANS PREPARED BY:  
 engineering • environmental • construction  
 2151 W HILLSBORO BLVD., STE 401, DEERFIELD BEACH, FL 33442  
 (561) 927-3070  
 FL CA 0004857

**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
10/14/21	CLIENT GLOBAL UPDATE
01/24/22	CLIENT GLOBAL UPDATE

**RaceTrac**  
 RACETRAC PETROLEUM, INC.  
 200 GALLERIA PARKWAY SE  
 SUITE 900  
 ATLANTA, GEORGIA 30339  
 (770) 431-7600

**PROJECT NAME**  
**VERO BEACH TC**

**VERO BEACH FLORIDA**  
 8990 20th STREET  
 VERO BEACH, FLORIDA

**RACETRAC PROJECT NUMBER**  
**1422**

**PLAN SERIES**  
**2011 BR-RH-M90 0801**

**PLAN MODIFICATION NOTICE**

NO MODIFICATIONS APPLIED  
 MODIFICATIONS APPLY

**SPB NO. N/A DATE N/A**

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

**PROFESSIONAL SEAL**

DAIMIAN D. LESLIE  
 LICENSE No. 73113  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 FL REG # 73113

**PROJECT NUMBER**  
**19252**

**SHEET TITLE & NUMBER**  
**VENT RISER, EQUIPMENT LIST AND NOTES**

**FILE NUMBER**  
**T4.1**

ISSUED FOR CONSTRUCTION

A. GENERAL

- 1.0 REFERENCE TO GENERAL CONTRACTOR IS DENOTED BY G.C.
2.0 THE WORK COMPLETED UNDER THESE SECTION(S) WILL INCLUDE ALL TANK(S), PIPING, EQUIPMENT AND RELATED INSTALLATION WORK NECESSARY FOR A COMPLETE AND OPERATING PETROLEUM PRODUCT STORAGE, HANDLING AND DISPENSING SYSTEM.
3.0 ALL WORK SHALL BE PERFORMED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH FEDERAL "UNDERGROUND STORAGE TANKS: TECHNICAL REQUIREMENTS" (40CFR PART 280), STATE AND MUNICIPAL REQUIREMENTS, AND MOST CURRENT EDITIONS OF THE APPLICABLE NFPA, PEI, AND API REFERENCE STANDARDS.
4.0 G.C. SHALL KEEP SITE FREE OF WASTES AND RUBBISH AT ALL TIMES.
5.0 G.C. SHALL ENSURE COMPLIANCE WITH O.S.H.A. AND ALL OTHER REGULATIONS AND RACETRAC'S CONTRACTUAL REQUIREMENTS.
6.0 WHERE INSTALLATIONS ARE MADE AT AN EXISTING STATION OR STORE, WORK SHALL BE SCHEDULED AND PERFORMED SO AS TO MINIMIZE INTERFERENCE WITH THE OPERATION OF THOSE FACILITIES.
7.0 ALL EQUIPMENT, MATERIALS, PIPING, TANKS AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S INSTRUCTIONS.
8.0 ALL LOCAL REGULATIONS MUST BE FOLLOWED.

B. REMOVAL & DISPOSITION OF EXISTING TANKS (WHEN REQ'D.)

- 1.0 EVACUATE PRODUCT FROM TANKS AND LINES.
1.1 FOR STP SYSTEM, DRAIN LINES INTO TANK BY REMOVING STP CHECK VALVE AND OPENING SAFETY VALVE TEST PORT. DISCONNECT STP UNION / SWING AND DRAIN PRODUCT INTO AN APPROVED CONTAINER.
1.2 DO NOT BLOW OUT LINES WITH COMPRESSED AIR. USE NITROGEN. PRODUCT REMOVED FROM LINES BECOMES PROPERTY OF G.C. AND MAY BE USED AS MOTOR FUEL.
1.3 REMOVE LIQUID & TANK BOTTOMS USING A VACUUM TRUCK IN LIEU OF ON-SITE STORAGE CONTAINERS.
2.0 EXCAVATE TO TANK TOP, REMOVE ALL TANK APPURTENANCES, PLUG ALL OPENINGS, REMOVE TANK AND PLACE IN A SECURE LOCATION. ONE TANK PLUG MUST HAVE AN 1/8" HOLE IN PLUG FOR VENTING.
3.0 REPEAT B-1.3 THROUGH ALL TANK FITTINGS TO REMOVE REMAINING RESIDUE. RESIDUE SHALL BE MANAGED PER B-1.3.
4.0 DECREASE TANK TO LESS THAN 10% OF THE LOWER EXPLOSION LIMIT (LEL) PER THE FOLLOWING.
PREFERRED METHOD (INERTING):
INERT VAPORS BY ADDING A MINIMUM OF 1.5 LBS DRY ICE, PER 100 GALLONS OF TANK CAPACITY.
ALTERNATE METHOD (PURGING):
VENTILATE TANK USING AN EVACUATOR OR DIFFUSER. (EVACUATOR MUST EXTEND 12 FT. MINIMUM ABOVE TANK TOP. A VENT LINE EXTENDING 12 FT. MINIMUM ABOVE TANK TOP MUST BE ATTACHED TO TANK WHEN USING A DIFFUSER).
5.0 ALL TANKS MUST BE DEGASSED AND CERTIFIED "CLEAN" BY G.C.
6.0 PRIOR TO TRANSPORTING ANY TANK FROM SITE, LEGIBLY LABEL AS FOLLOWS:
"TANK HAS CONTAINED FLAMMABLE LIQUIDS. NOT GAS FREE. NOT SUITABLE FOR FOOD OR DRINKING WATER."
7.0 OWNER'S ENGINEER SHALL INSPECT OPEN EXCAVATION FOR EVIDENCE OF ALL HYDROCARBON RELEASE.

C. EXCAVATION

- 1.0 SIDES OF TANK HOLE EXCAVATION SHALL BE SLOPED IN ACCORDANCE WITH O.S.H.A. "CONSTRUCTION SAFETY & HEALTH REGULATIONS" SUBPART P-EXCAVATIONS, TRENCHING 1562650 THRU 1926653, RECOMMENDATIONS. FILTER FABRIC CLOTH SHALL BE USE TO LINE BOTTOM AND SIDES OF TANK HOLE PRIOR TO GRAVEL BACKFILL. FILTER FABRIC CLOTH SHALL ALSO LAP TOP OF TANKS TO PREVENT INFILTRATION OF EARTH INTO TANK AREAS.
2.0 EXCAVATION SHALL BE SIZED TO PROVIDE A MINIMUM 1FT TANK BED, 3FT BETWEEN TANKS AND 2FT BETWEEN TANK SIDES/ENDS AND EXCAVATION WALLS.
3.0 OWNER RESERVES THE RIGHT TO DESIGN AND/OR CONSTRUCT SHORING UNDER AN AMENDED AGREEMENT WITH G.C. OR SEPARATELY WITH ANOTHER COMPANY. IF OWNER ENGAGES G.C., G.C. SHALL SUBMIT SHORING DESIGN TO OWNER'S ENGINEER FOR APPROVAL. SUPPLEMENTAL JOB SCOPE AND COST SHALL BE AGREED TO IN TERMS OF A CONTRACT CHANGE ORDER PRIOR TO COMMENCING WORK. SHORING SHALL BE REMOVED PRIOR TO INSTALLING PRODUCT PIPING. DO NOT ABANDON SHORING IN PLACE.

D. TANKS

- 1.0 TANK MANUFACTURER'S INSTALLATION CHECKLIST SHALL BE INITIALED/SIGNED BY G.C AND OWNER'S ENGINEER, AS APPROPRIATE, AS EACH STEP IS COMPLETED
2.0 THE GENERAL CONTRACTOR SHALL FOLLOW ALL TESTING PROCEDURES OUTLINED IN THE XERXES INSTALLATION MANUAL FOR BRINE-FILLED DOUBLE-WALL TANKS AND PROVIDE DOCUMENTATION TO THE OWNER. ALSO, THE GENERAL CONTRACTOR SHALL MAINTAIN A DAILY LOG OF THE SICK READINGS FORM THE BRINE RESERVOIR.
3.0 N/A, NOT USED

4.0 INSTALLATION

- 4.1 INSTALLING CONTRACTOR SHALL BE CERTIFIED BY TANK MANUFACTURE.
4.2 BEDDING AND BACKFILL MATERIAL SHALL BE WELL WASHED AND FREE OF ICE AND SNOW AND MUST MEET ASTM D-448, ASTM C-33 AND AASHTO M-43 QUALITY AND SOUNDNESS. G.C. SHALL PROVIDE SIEVE ANALYSIS ACCEPTABLE TO OWNER'S ENGINEER. THE FOLLOWING MATERIALS MAY BE USED:
4.2.1 PEA GRAVEL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER WITH NO MORE 3% PASSING A NO. 8 SIEVE.
4.2.2 CRUSHED STONE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER WITH NO MORE THAN 3% PASSING A NO. 8 SIEVE.
4.3 STANDARD INSTALLATION
4.3.1 ALL TANKS SHALL BE PLACED AT A MINIMUM OF 48 INCHES BELOW FINISHED GRADE OR AS REQUIRED TO ACCOMMODATE PRODUCT PIPING SLOPE REQUIREMENTS, AND SET ON A 12 INCH THICK (MINIMUM) BED OF APPROVED BACKFILL MATERIAL. TANK OPENINGS SHALL BE ALIGNED VERTICALLY WITHIN A PLANE PERPENDICULAR TO THE TANKS LONGITUDINAL AXIS.
4.3.2 SET TANKS LEVEL ON BEDDING MATERIAL. USE ALL LIFTING LUGS PROVIDED AND GUIDE ROPES AT EACH TANK END. (DO NOT SET TANKS DIRECTLY ON DEADMAN IF USED).
4.3.3 PLACE 12" BACKFILL MATERIAL EVENLY AROUND TANKS. USE WOODEN DOWEL PROBE TO WORK BACKFILL COMPLETELY UNDER TANK.
4.3.4 REPEAT D-4.3.3 FOR NEXT 12" PROBING TO FILL ALL VOIDS.
4.3.5 FREELY ADD ADDITIONAL BACKFILL TO TANK TOPS. (ADDITIONAL PROBING NOT REQUIRED).
4.4 ALTERNATE INSTALLATION (NOT ALLOWED).

4.5 WET EXCAVATION CONDITIONS

- 4.5.1 G.C. SHALL BE RESPONSIBLE TO EVACUATE WATER FROM EXCAVATION. IF CONDITIONS REQUIRE SHORING, CONSULT OWNER'S ENGINEER. METHOD MUST BE APPROVED BY OSHA AND OWNER'S ENGINEER.
4.5.2 MINIMIZE SURFACE WATER ENTERING EXCAVATION BY CONSTRUCTING DIVERSION DAMS AROUND TANK FIELD EXCAVATION AND PIPING TRENCHES.
4.5.3 A CONTINGENCY PLAN SHALL BE DEVELOPED BY G.C. OUTLINING EMERGENCY PROCEDURES FOR OBTAINING THE NECESSARY EQUIPMENT AND/OR PERSONNEL TO HANDLE UNEXPECTED WATER ENTRY INTO THE TANK FIELD EXCAVATION OR PIPING TRENCHES. WHEN WATER MAY CONTAIN HYDROCARBONS CONSULT OWNER'S ENVIRONMENTAL ENGINEER.
4.5.4 INSTALL TANKS PER 4.3

4.6 ANCHORING

- 4.6.1 TANK ANCHORING, WHERE REQUIRED BY EXISTING GROUNDWATER CONDITIONS, SHALL BE ACCOMPLISHED USING STRAPS AND TURNBUCKLE ASSEMBLIES BY THE TANKS MANUFACTURER AND INSTALLED IN STRICT ACCORDANCE WITH THE TANK MANUFACTURER'S REQUIREMENTS. ALL TURNBUCKLE ASSEMBLY HARDWARE TO BE COATED WITH KOPPERS 300M EPOXY APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5.0 RISER COATING AND WRAPPING

- 5.1 PRIOR TO COMPLETION OF BACKFILL AND AFTER PRESSURE TESTING TANK, COAT ALL CORRODIBLE COMPONENTS EXPOSED TO BACKFILL WITH COAL TAR EPOXY AND WRAP WITH FELT OR 3M TAPE. ALL COMPONENTS SHALL BE CLEAN AND CORROSION FREE BEFORE APPLYING COATING. EXTEND COATING 3" ONTO ADJACENT FRP COMPONENTS.

6.0 BALLASTING

- 6.1 WATER BALLASTING - GC TO BALLAST TANKS
6.1.1 ATTACH ONLY STP RISER AND MANIFOLD HOUSING TO TANK. G.C. SHALL PROTECT AND STORE REMAINING STP COMPONENTS. COVER TOP OF STP MANIFOLD WITH PLYWOOD SECURED THROUGH EXISTING BOLT HOLES.
6.1.2 WATER TO BE PROVIDED BY CONTRACTOR. G.C. TO ASSUME RESPONSIBILITY FOR COMPLETE REMOVAL AND DISPOSAL OF WATER BALLAST AND SCHEDULING GASOLINE DELIVERY PRIOR TO PRODUCT PIPING PURGE, DISPENSER, START-UP, CALIBRATION, ETC.
6.1.3 REMOVE PLYWOOD COVER FROM STP MANIFOLD. COMPLETE STP INSTALLATION ONLY AFTER REMOVING WATER FROM TANK.

7.0 TESTING (AFTER PAVING IS COMPLETE)

- 7.1 G.C. SHALL CONTACT R.T. OWNERS ENGINEER TO HAVE PRECISION TEST ON PRIMARY TANK AFTER PAVING IS COMPLETE. PRODUCT HAS BEEN PLACED IN TANKS, DISPENSERS HAVE BEEN INSTALLED, AND PRIOR TO FINAL PROJECT ACCEPTANCE.

E. PIPING

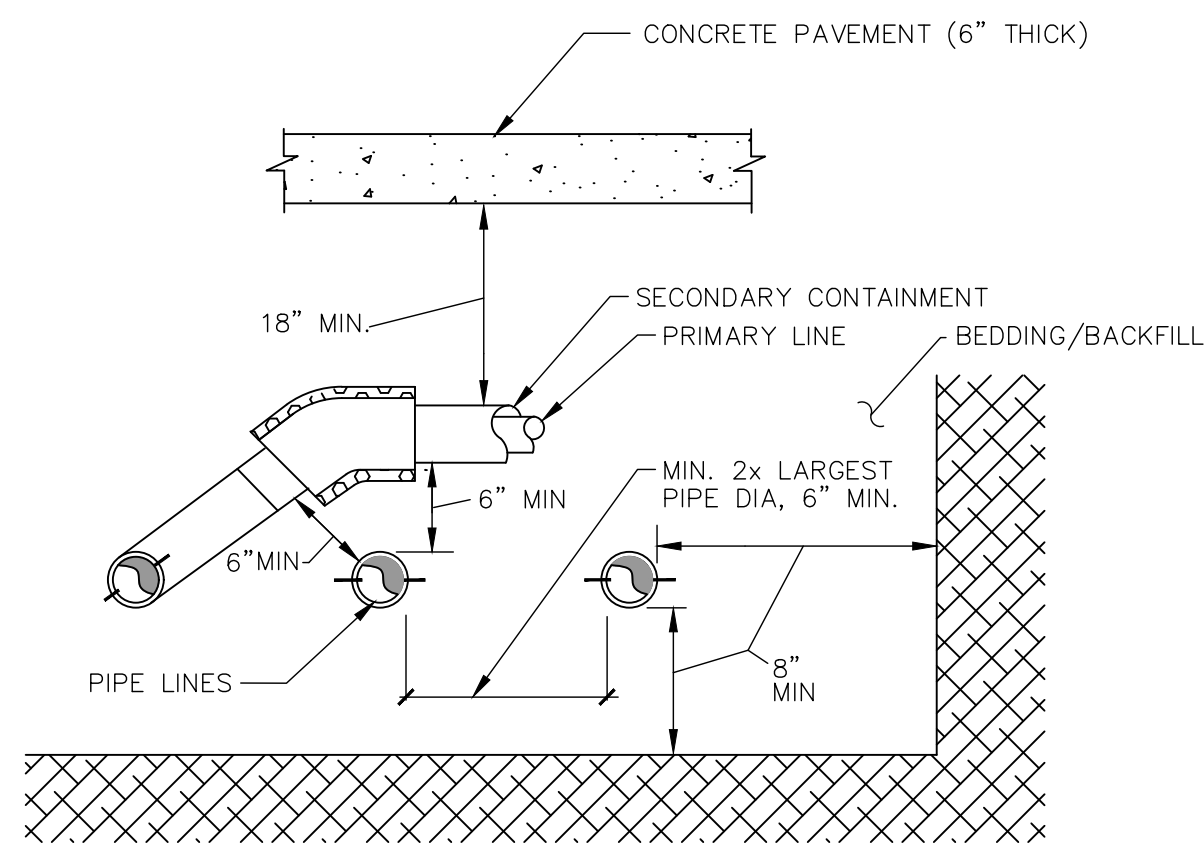
- 1.0 PIPE MANUFACTURER'S INSTALLATION CHECKLIST SHALL BE INITIALED AND SIGNED BY G.C AND OWNER'S ENGINEER, AS APPROPRIATE, AS EACH STEP IS COMPLETED.
2.0 ALL MATERIAL WORKMANSHIP AND INSTALLATION PRACTICES SHALL BE IN ACCORDANCE WITH NFPA APPLICABLE CODES.
3.0 MATERIALS
3.1 ALL VENT AND VAPOR RETURN SHALL BE NOV FIBERGLASS SYSTEMS RED THREAD II FIBERGLASS PIPING
3.2 ALL PRODUCT PIPING SHALL BE NOV FIBERGLASS SYSTEMS RED THREAD II FIBERGLASS WITH SECONDARY CONTAINMENT ALL REMOTE FILL PIPING SHALL BE NOV FIBERGLASS SYSTEMS LCX FIBERGLASS DOUBLE WALL PIPING
3.3 TANK RISER SHALL BE SCHEDULE 40 (ASTM-5-120) GALVANIZED IRON PIPES. FITTING SHALL BE 300 PSI GALVANIZED MALLEABLE IRON. ALL COUPLINGS AND FITTINGS SHALL BE SHOULDER STYLE. NO STREET COUPLINGS OR FITTING SHALL BE ALLOWED. THE USE OF CLOSE, CONTINUOUSLY THREADED STEEL PIPE NIPPLES SHALL NOT BE PERMITTED.
3.4 ALL THREADED CONNECTIONS SHALL BE TREATED WITH GASOILA E-SEAL OR JOMAR 100 "THE HEAVY WEIGHT." (100% compatible -all fuels)
3.5 G.C. SHALL DEMONSTRATE TO OWNER'S ENGINEER ALL INSTALLED MATERIALS ARE NEW AND CONFORM TO ABOVE SPECIFICATIONS.

4.0 INSTALLATION

- 4.1 INSTALLATION CONTRACTOR SHALL BE CERTIFIED BY PIPING MANUFACTURER.
4.2 CORRODIBLE COMPONENTS SHALL BE USED ONLY WHERE SPECIFIED AND IN THE ARRANGEMENT SHOWN IN THESE DRAWINGS.
4.3 BEDDING AND BACKFILL MATERIAL SHALL BE THE SAME AS THE TANK FIELD. SAND SHALL NOT BE USED UNDER ANY CIRCUMSTANCES. PRODUCT LINE TRENCH SUB-GRADE SHALL BE COMPACTED TO 95% PROCTER DENSITY PRIOR TO INSTALLING BEDDING AND BACKFILL MATERIAL.
4.4 PIPING SHALL BE MINIMIZED, NOT PLACED UNDER BUILDINGS AND SHALL BE INSTALLED WITH MINIMUM SPACING AND CLEARANCES SHOWN BELOW. IF PIPING ROUTING IS NOT SPECIFIED, G.C SHALL INSTALL IN THE MOST DIRECT ROUTE, SUBJECT TO APPROVAL BY OWNER'S ENGINEER.
4.5 PRODUCT LINE SHALL SLOPE CONTINUOUSLY UPWARD FROM STP SUMP A MINIMUM OF 1/8" PER FT. STAGE I AND STAGE II VAPOR RECOVERY LINES AND VENT LINES SHALL SLOPE CONTINUOUSLY UPWARD FROM VAPOR MANIFOLD A MINIMUM OF 1/8" PER FT.

PIPING NOTES:

- 1. PRODUCT LINES AND VENT LINES TO SLOPE MIN. 1/8" PER FOOT DOWN TO UNDERGROUND TANKS.
2. PROVIDE MINIMUM 6" VERTICAL & 2x PIPE DIAMETER HORIZONTAL SEPARATION (6" MIN.) BETWEEN FUEL LINES (NFPA 30:27.6.5.647)
3. PROVIDE MINIMUM 6" BED BELOW & COVER (12" FILL, 6" CONCRETE) ABOVE ALL FUEL LINES (NFPA 30:27.6.5.1&2)



PIPING COVER AND SEPARATION DETAIL

NTS

5.0 CONNECTIONS:

5.1 THREADED CONNECTIONS

- 5.1.1 THREADS SHALL BE CLEAN OF ALL SAND AND THREAD CUTTING OIL PRIOR TO JOINING.
5.1.2 APPLY THREAD SEALANT PER E-3.4 START ALL THREADED CONNECTIONS BY HAND. SECURE FRP COMPONENTS USING ONLY A STRAP WRENCH. DO NOT FORCE THREADS. IF CONNECTION BINDS REMOVE AND RECLEAN.
5.1.3 DO NOT OVERTIGHTEN. TORQUE FRP TO STEEL CONNECTIONS TO 75FT. LBS. WHEN USING POWER TONGS.

5.2 FRP BONDED CONNECTIONS:

- 5.2.1 TAPER ESCORT PIPE ENDS PER PIPE MANUFACTURER'S INSTRUCTIONS. CLEAN BONDING SURFACE USING ONLY PIPE MANUFACTURER'S APPROVED CLEANER. DO NOT ALLOW CLEANER TO COME INTO CONTACT WITH TANK SURFACE OR SUMP SEALING DEVICES.
5.2.2 MIX AND APPLY ADHESIVES PER MANUFACTURER'S INSTRUCTIONS. AVOID SKIN CONTACT WITH CLEANER, ADHESIVES AND HARDENER DO NOT INHALE FUMES.
5.2.3 JOIN COMPONENTS PER MANUFACTURERS INSTRUCTIONS. CURE CONNECTION PER PIPE MANUFACTURER'S SPECIFICATIONS USING FRP PIPE MANUFACTURER APPROVED ELECTRIC HEATING COLLAR OR CHEMICAL HEAT PACK WHEN TEMPERATURE IS BELOW OR WILL BE BELOW 60F PRIOR TO CURING. HEAT GUNS ARE STRICTLY PROHIBITED.

5.3 FLEX LINE CONNECTIONS:

- 5.3.1 INSTALL FLEXIBLE LINE CONNECTORS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5.3.2 IMMEDIATELY AFTER INSTALLING FLEX LINE COUPLING, PLACE CAP OR PLUG ON COUPLINGS TO PREVENT DEBRIS FROM ENTERING LINES.

6.0 LINE TESTING

CAUTION: NITROGEN FROM A GROUNDED SOURCE SHALL BE USED IN LIEU OF AIR FOR TESTING IF LINES HAVE BEEN EXPOSED TO GASOLINE. NOTE: OWNER'S ENGINEER SHALL WITNESS ALL LINE TESTING

- 6.1 G.C. SHALL NOTIFY OWNER'S ENGINEER TWO DAYS PRIOR TO TESTING.
CAUTION: CAP FLEX CONNECTOR OR FLEXIBLE LINE AT STP PRIOR TESTING. APPLY & RELEASE PRESSURE SLOWLY.
6.2 PRODUCT LINE SHALL BE TESTED FROM STP TO SHEAR VALVE.
6.3 VENT/VAPOR SYSTEM SHALL BE TESTED FROM TOP OF VENT, THROUGH MANIFOLD, EXTRACTOR BASE AND RISER, STAGE I CONTAINMENT MANHOLES, STAGE II VAPOR LINES TO ISLAND & STAGE II FLEX CONNECTORS AT DISPENSERS. REPLACE BALL FLOAT CAGES WITH PLUGS AND REPLACE STAGE I VAPOR RECOVERY SPILL CONTAINER DRAIN VALVES WITH PLUGS. CAUTION: ENGINEER AND G.C. SHALL VERIFY EXTRACTOR PLUGS INSTALLED AND CAP IS REMOVED FROM TANK MONITOR RISER PRIOR TO PRESSURE TESTING VENT/ VAPOR SYSTEM.
6.4 FRP LINES
6.4.1 SLOWLY PRESSURIZE PRODUCT LINES AND VENT/ VAPOR LINES TO 50 PSI. SOAP TEST ENTIRE PIPE SURFACES INCLUDING JOINTS AND FITTINGS. CORRECT ANY LEAKS AND RETEST.
6.4.2 IMMEDIATELY LOWER PRESSURE FROM VAPOR/ VENT SYSTEM TO 5 PSI REMOVE EXTRACTOR PLUGS. REDUCE PRIMARY LINE PRESSURE TO 30 PSI. MONITOR DAILY UNTIL ALL PAVING IS COMPLETE.
6.4.3 ASSEMBLE SECONDARY SYSTEM AND PRESSURIZE TO 5 PSI. SOAP TEST ENTIRE PIPE SURFACES INCLUDING JOINTS AND FITTINGS. CORRECT ANY LEAKS AND RETEST. MONITOR DAILY UNTIL ALL PAVING IS COMPLETE.
6.4.4 AFTER TESTING HAS BEEN SATISFACTORILY COMPLETED AND PRIOR TO BACKFILL, ALL EXPOSED GALVANIZED PIPE THREADS, JOINTS, WRENCH MARKS AND ANODE CONNECTIONS ARE TO BE COATED WITH COAL TAR & 3M TAPE. EPOXY APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
6.5 RACETRAC SHALL PERFORM PRECISION TEST ON PRODUCT LINES AFTER PAVING IS COMPLETE, PRODUCT HAS BEEN PLACED IN TANKS, DISPENSERS HAVE BEEN INSTALLED, AND LINES HAVE BEEN PURGED PRIOR TO FINAL PROJECT ACCEPTANCE.

F. DISPENSER:

- 1.0 DISPENSER SHALL BE SECURELY ATTACHED TO ANCHOR BOLTS WHICH SHALL BE SET IN CONCRETE ISLAND. QUANTITY AND SIZE OF ANCHOR BOLTS SHALL BE AS SPECIFIED IN DISPENSER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2.0 DISPENSER SHALL BE ACTIVATED ONLY IN PRESENCE OF AN AUTHORIZED DISPENSER REPRESENTATIVE. G.C. HAS SOLE RESPONSIBILITY FOR DAMAGE TO DISPENSER IF THIS INSTRUCTION IS NOT FOLLOWED.
3.0 PURGING AIR:
3.1 ACTIVATE ANY DISPENSER. DO NOT OPEN A NOZZLE. LEAVE DISPENSER ON FOR 5 MINUTES. TURN DISPENSER OFF AND ALLOW TO STAND FOR 5 MINUTES.
3.2 ACTIVATE DISPENSER MOST REMOTE FROM STP AND DISPENSE (50 GALLONS FROM THE FARTHEST TWO DISPENSERS AND 50 GALLONS FROM ALL OTHERS) INTO A GROUNDED CONTAINER APPROVED FOR STORAGE AND HANDLING OF CLASS I FLAMMABLE LIQUIDS. REPEAT FOR EACH HOSE AND DISPENSER. MOVING PROGRESSIVELY CLOSER TO STP. REPLACE PRODUCT USED FOR LINE PURGE INTO RESPECTIVE TANK.
4.0 ELECTRICAL CHECKOUT.
4.1 TURN OFF ALL STP CIRCUIT BREAKERS.
4.2 CONFIRM ALL NOZZLES ARE IN THEIR BOOTS.
4.3 VERIFY ALL STP'S ARE OFF.
4.4 TURN ON CIRCUIT BREAKER FOR ONE STP. ONE HOSE AT A TIME FOR PRODUCT GRADE MATCHING ACTIVATED STP, PERFORM THE FOLLOWING AT EACH DISPENSER:
4.4.1 REMOVE NOZZLE
4.4.2 ACTIVATE OPERATING HANDLE AND DISPENSE PRODUCT INTO AN APPROVED GROUNDED CONTAINER.
4.4.3 VERIFY ONLY CORRECT STP TURNS ON.
4.4.4 VERIFY BRAND PANELS ON EACH SIDE OF DISPENSER MATCHES PRODUCT BEING DISPENSED BY STP.
4.4.5 VERIFY CORRECT NOZZLE TYPE IS INSTALLED. REPEAT F-4.4 FOR EACH PRODUCT GRADE.
5.0 ACTIVATE ALL STP CIRCUIT BREAKERS ONE HOSE AT A TIME. FOLLOW F-4.4.2 AND F-4.4.3 FOR EACH HOSE.
6.0 IF MISCONNECTIONS OR OTHER PROBLEMS ARE DETECTED, MAKE CORRECTIONS AND REPEAT ENTIRE DISPENSER CHECK-OUT PROCEDURE.
NOTE: SUCCESSFUL COMPLETION OF F-4.0 AND F-5.0 WILL CONFIRM COMPLETE INTEGRITY AND CONTINUITY OF DISPENSING ELECTRICAL AND PIPING SYSTEMS.
7.0 DISPENSER CALIBRATION: SUBSEQUENT TO START UP OF NEW DISPENSER BY THE OWNERS AUTHORIZED SERVICE REPRESENTATIVE, THE G.C. SHALL PROVIDE A STATE CERTIFIED 5 GALLON CALIBRATION CAN AND ADJUST CALIBRATION OF EACH DISPENSER HOSE TO ZERO TOLERANCE FOR EACH 5 GALLONS OF PRODUCT DISPENSED, ON BOTH FAST AND SLOW RUNS, OR AS DIRECTED BY LOCAL WEIGHTS AND MEASURES AUTHORITY. PRODUCT USED FOR CALIBRATION OF DISPENSERS SHALL BE RETURNED TO ITS RESPECTIVE STORAGE TANK. REPLACE ALL METER SEALS. FURNISH OWNER WITH CALIBRATION REPORT SHOWING FINAL CALIBRATION TO ZERO TOLERANCE. BEFORE STORE STOCKING.
8.0 INSTALL NEW DISPENSER FILTERS AFTER COMPLETING ALL LIQUID TESTING. ACTIVATE EACH PRODUCT AND EACH DISPENSER AND INSPECT FILTER FOR LEAKS. RECHECK PRIMARY LINE CONNECTIONS AT DISPENSER BASE AND STP FOR LEAKS. CALIBRATION TEST SHALL BE GIVEN TO RACETRAC ENGINEER PRIOR TO STOCKING STORE.

G. MISCELLANEOUS REQUIREMENT.

- 4.1 SET ALL TANK SLAB MANHOLES AND STREET BOX ELEVATIONS 2" ABOVE FINISHED GRADE. SLOPE (1 5/16 INCH PER FOOT) CONCRETE AWAY FROM RIM TO MEET SLAB GRADE.
4.2 PRIOR TO INSTALLATION, CONTRACTOR SHALL SET SUBMERGED TURBINE LENGTH SO THAT MOTOR IS 6" OFF OF TANK BOTTOM.
4.3 UNLESS OTHERWISE INDICATED, ALL CONTROL AND ELECTRICAL WIRING SHALL BE RUN IN 3/4" GALVANIZED CONDUIT IN ACCORDANCE WITH NFPA 70 CLASS 1, GROUP D REQUIREMENT.
4.4 PRODUCT DISPENSERS (MPD'S) TO BE SET AND CONNECTED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL HOSES, BREAKAWAYS, SWIVELS AND NOZZLES AND CHECK FOR PROPER OPERATION. REMOVE ALL PACKAGING MATERIALS, TAPE. TAPE RESIDUE AND THOROUGHLY CLEAN EACH DISPENSER TO REMOVE DUST, FINGERPRINTS, SMUDGES, ETC.
4.5 PRESSURE LINE LEAK DETECTORS- ALL (NEW AND EXISTING) PRESSURE LINE LEAK DETECTORS SHALL BE CHECKED AND TESTED FOR PROPER OPERATION. LEAK DETECTOR CHECKS AND TEST SHALL BE WITNESSED BY THE OWNERS REPRESENTATIVE.

H. CONCRETE

- 1.0 CONCRETE SHALL BE IN ACCORDANCE WITH OWNER'S PAVING SPECIFICATIONS AND DETAILS.

I. AS-BUILT DRAWINGS

- 1.0 G.C. SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS TO SCALE DEPICTING PRECISE LOCATION OF ALL COMPONENTS INSTALLED (INCLUDING PRODUCT/ VAPOR LINE SIZES AND LOCATIONS, CONDUIT SIZES AND LOCATIONS ETC.) PRIOR TO OWNER'S ENGINEER PROJECT ACCEPTANCE.



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DESIGN PROFESSIONALS

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ISSUE/REVISION RECORD

Table with columns for DATE and DESCRIPTION, containing multiple empty rows for recording changes.



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PROJECT NAME

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VERO BEACH FLORIDA 8990 20th STREET VERO BEACH, FLORIDA

RACETRAC PROJECT NUMBER

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PLAN SERIES

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PLAN MODIFICATION NOTICE

- NO MODIFICATIONS APPLIED
MODIFICATIONS APPLY
SPB NO. N/A DATE N/A

STANDARD PLAN BULLETINS (SPB) MODIFY THE PLAN SERIES SET NOTED ABOVE. THE SPB GIVEN ABOVE REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PLAN SERIES SET. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ALL BULLETINS.

PROFESSIONAL SEAL

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PROJECT NUMBER

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SHEET TITLE & NUMBER

TANK AND PIPING NOTES

FILE NUMBER

T5.0

ISSUED FOR CONSTRUCTION