

CONTACT INFORMATION

<u>CONSTRUCTION MANAGER</u>	<u>FUEL SYSTEM DESIGNER</u>
	DIAMOND Z ENGINEERING, INC.
	5670 STATE ROAD
	CLEVELAND, OH 44134
	P: 440.842.6501

<u>CONSTRUCTION MANAGER</u>	<u>FUEL SYSTEM DESIGNER</u>
	DIAMOND Z ENGINEERING, INC.
	5670 STATE ROAD
	CLEVELAND, OH 44134
	P: 440.842.6501

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND RULES. THE GC AND FSC SHALL ENSURE A SAFE WORK ENVIRONMENT EXISTS AT ALL TIMES.
 2. THE GC AND FSC SHALL OBSERVE ANY OVERHEAD OBSTRUCTIONS THAT MAY BE IMPACTED AS PART OF THE WORK.
 3. THE GC AND FSC ARE RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES ARE LOCATED AND MARKED. ANY DAMAGE TO UTILITIES AS PART OF THE WORK SHALL BE BORNE BY THE GC AND FSC.
 4. THE GC AND FSC SHALL TAKE DELIVERY OF AND UNLOAD ALL EQUIPMENT UPON ARRIVAL AS NEEDED. THE GC AND FSC ARE OTHERWISE RESPONSIBLE FOR ALL EQUIPMENT UNTIL SITE ACCEPTANCE AND TURN-OVER TO RACETRAC.
 5. HAZARDOUS AREAS ARE DEFINED PURSUANT TO THE NATIONAL ELECTRIC CODE. THESE MUST BE OBSERVED WHEN INSTALLING SPARK GENERATING EQUIPMENT.
 6. THE START-UP CONTRACTOR WILL PURGE, CALIBRATE, AND PROGRAM THE NEW DISPENSERS. ONCE ALL DISPENSERS ARE FULLY OPERATIONAL, THE START-UP CONTRACTOR WILL GIVE ALL DISPENSER KEYS, STAND-ALONE BY-PASS JUMPERS, WIRELESS PROGRAMMING REMOTES, AND PROGRAMMING PIN PADS TO THE DESIGNATED OWNER'S CONSTRUCTION MANAGER. NONE OF THIS EQUIPMENT WILL BE LEFT INSIDE THE DISPENSERS OR RETAINED BY THE START-UP CONTRACTOR.
 7. THE START-UP CONTRACTOR WILL PROGRAM THE UNDERGROUND STORAGE TANKS IN THE TANK MONITOR AS FOLLOWS:
 - TANK #1 - REGULAR (20K)
 - TANK #2 - PREMIUM (12K)
 - TANK #3 - E85 (12K)
 - TANK #4 - DEF (12K)
 - TANK #5 - DIESEL (B100) (12K)
 - TANK #6 - DIESEL (B20) (24K)
 8. ALL DETAILS ARE SHOWN WITH RED THREAD IIA PIPING. DUALOY LCX PIPING IS AN APPROVED ALTERNATE.
- NOTE:**
**ANY DEVIATION FROM THE SPECIFIED
EQUIPMENT & MATERIALS MUST BE APPROVED
PRIOR TO INSTALLATION BY THE RACETRAC
CONSTRUCTION MANAGER.**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND RULES. THE GC AND FSC SHALL ENSURE A SAFE WORK ENVIRONMENT EXISTS AT ALL TIMES.
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NOTE:
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CONSTRUCTION MANAGER.**

LEGEND

	EQUIPMENT IDENTIFIER		UNDISTURBED SOIL
	DETAIL IDENTIFIER		PEA GRAVEL
FSC	FUEL SYSTEM CONTRACTOR		CONCRETE
DEF	DIESEL EXHAUST FLUID		CATCH BASIN
GC	GENERAL CONTRACTOR		MANHOLE
			LIGHT POLE

	EQUIPMENT IDENTIFIER		UNDISTURBED SOIL
	DETAIL IDENTIFIER		PEA GRAVEL
FSC	FUEL SYSTEM CONTRACTOR		CONCRETE
DEF	DIESEL EXHAUST FLUID		CATCH BASIN
GC	GENERAL CONTRACTOR		MANHOLE
			LIGHT POLE

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	DETAIL IDENTIFIER		PEA GRAVEL
FSC	FUEL SYSTEM CONTRACTOR		CONCRETE
DEF	DIESEL EXHAUST FLUID		CATCH BASIN
GC	GENERAL CONTRACTOR		MANHOLE
			LIGHT POLE

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FSC	FUEL SYSTEM CONTRACTOR		CONCRETE
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GC	GENERAL CONTRACTOR		MANHOLE
			LIGHT POLE

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GC	GENERAL CONTRACTOR		MANHOLE
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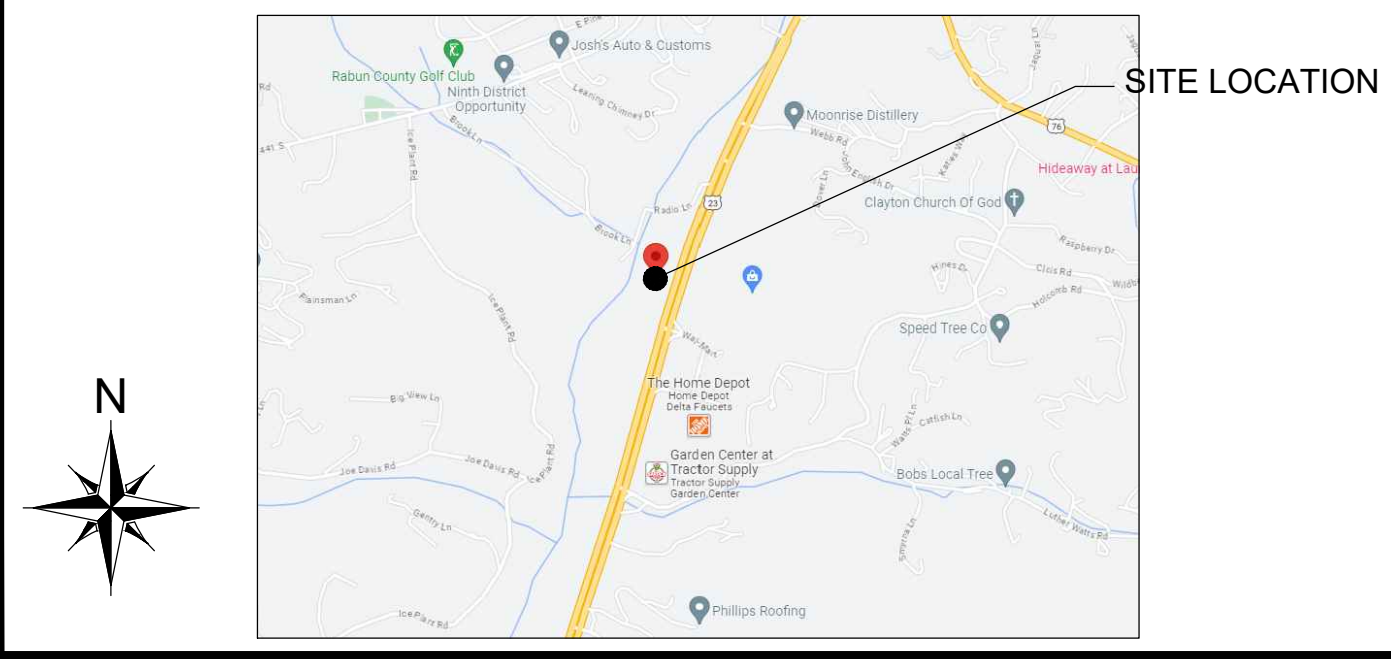
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DEF	DIESEL EXHAUST FLUID		CATCH BASIN
GC	GENERAL CONTRACTOR		MANHOLE
			LIGHT POLE

LOCATION MAP



ONE CALL



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

48 HOURS BEFORE YOU DIG CALL 811.



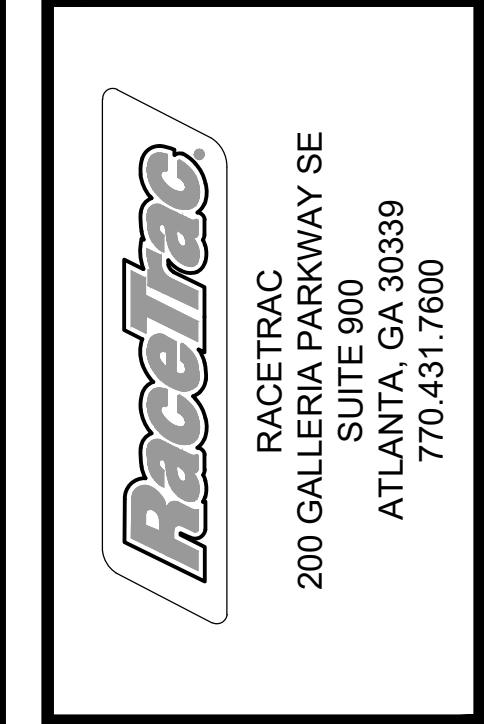
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DRAWING INDEX

DRAWING INDEX		REVISION	
COVER		NUMBER	DATE
CS-0	COVER SHEET	3	2/22/2024
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F-2A	RETAIL TANK LAYOUT AND PIPING PLAN - EDO SHARED TANK LAYOUT	3	2/22/2024
F-2B	TRUCK TANK LAYOUT AND PIPING PLAN - EDO SHARED TANK LAYOUT	3	2/22/2024
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REVIEWS		
ERK		
11/15/23	OWNER REVIEW SET	
11/15/23	BID AND PERMIT SET	
BNH	REVISED BID AND PERMIT SET	
2/22/24		



RaceTrac

RACETRAC
200 GALLERIA PARKWAY SE
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770.431.7600

STORE #1644
18 RADIO LANE
CLAYTON, GA 30525





DIAMOND Z
ENGINEERING, INC.

COVER SHEET

The logo for Diamond Z Engineering, Inc. is a square with a thick black border. Inside the square, the text "DIAMOND Z ENGINEERING, INC." is at the top, followed by "5670 STATE ROAD" and "CLEVELAND, OH 44134" on the next line, and "PHONE: 440-842-6501" on the third line. Below this, a paragraph of small text states: "ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF DIAMOND Z ENGINEERING, INC. & IS LOANED WITH THE UNDERSTANDING & SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE DISAPPROPRIATELY OR INDIRECTLY WITHOUT PRIOR PERMISSION." Below the text is a table with two columns: "SCALE:" and "DATE:". The "SCALE:" column contains "NONE" and the "DATE:" column contains "11/15/2023". Below the table, the text "DRAWN BY:" is followed by "ERK" and "PROJECT NO.:" is followed by "DIS-4700". At the bottom of the logo is the text "DRAWING NO." followed by a large "CS-0".

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5670 STATE ROAD	
CLEVELAND, OH 44134	
PHONE: 440-842-6501	
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SCALE:	DATE:
NONE	11/15/2023
DRAWN BY:	PROJECT NO.:
ERK	GA-4700
DRAWING NO.	
CS-0	

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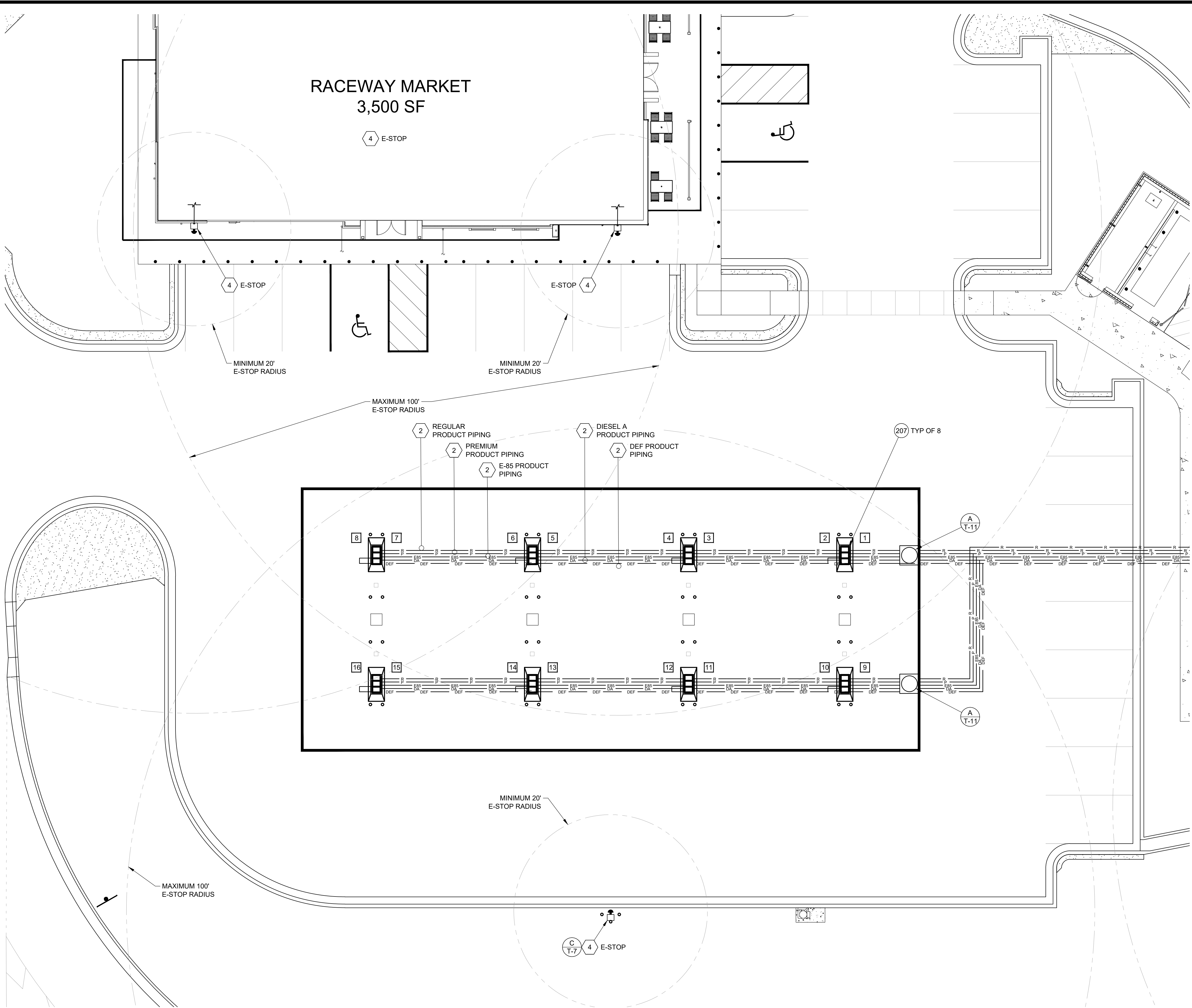
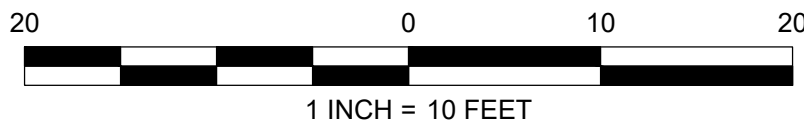
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KEY CONSTRUCTION NOTES:

1. INSTALL THE FOLLOWING DOUBLE WALL U.L. LISTED UNDERGROUND STORAGE TANKS:
(1) 20,000 GALLON TANK FOR REGULAR
(1) 24,000 GALLON TANK SPLIT
12,000 PREMIUM AND 12,000 E-85
(1) 24,000 GALLON TANK SPLIT
12,000 DEF AND 12,000 B-100
(1) 24,000 GALLON TANK FOR DIESEL.
COORDINATE WITH TANK INSTALLATION DRAWINGS.
2. INSTALL 3" OVER 2" DOUBLE WALL FIBERGLASS RIGID PRODUCT PIPING FROM THE TANKS AND THROUGH THE RETAIL DISPENSERS.
3. INSTALL 3" SINGLE WALL FIBERGLASS RIGID VENT PIPING FOR ALL TANKS EXCEPT THE DEF TANK. DEF WILL GET A 2" VENT.
4. INSTALL (5) EMERGENCY STOPS (48" HIGH MAX.). (1) EMERGENCY STOP TO BE INSTALLED AT CASHIER COUNTER, (2) EMERGENCY STOPS SHALL BE INSTALLED ON THE OUTSIDE OF THE BUILDING, (2) EMERGENCY STOPS TO BE INSTALLED ON REMOTE BOLLARDS SO THAT EACH ENTIRE DISPENSER IS MINIMUM 20' AND MAXIMUM 100' FROM AN EMERGENCY STOP PER NFPA-30A. OWNER TO SUPPLY AND CONTRACTOR TO INSTALL APPROPRIATE SIGNAGE.

- LEGEND:
- RF REMOTE FILL PIPING, 4" S/W F/G
 - R REGULAR GASOLINE PRODUCT PIPING, 2 1/3" D/W F/G *
 - P PREMIUM PRODUCT PIPING, 2 1/3" D/W F/G *
 - DA DIESEL A PRODUCT PIPING, 2 1/3" D/W F/G *
 - DB DIESEL B PRODUCT PIPING, 2 1/3" D/W F/G *
 - E-85 E-85 PRODUCT PIPING, 2 1/3" D/W F/G *
 - V VENT PIPING, 3" S/W F/G
 - VR VAPOR RECOVERY PIPING, 3" S/W F/G
 - AS ACTIVE SIPHON PIPING, 2 1/3" D/W F/G *
 - FUS FUTURE USE SIPHON PIPING, 2 1/3" D/W F/G *
 - D1 DIESEL, TANK 1, PRODUCT PIPING, 2 1/3" D/W F/G *
 - D2 DIESEL, TANK 2, PRODUCT PIPING, 2 1/3" D/W F/G *
 - B100 B-100 DIESEL, TANK 1, PRODUCT PIPING, 2 1/3" D/W F/G *
 - DEF DEF PRODUCT PIPING, 2 1/3" D/W F/G *
 - SAT MASTER/SATELLITE PIPING, 2 1/3" D/W F/G



REVISIONS				
NO.	DATE	DESCRIPTION	BY	CHKD.
1	11/15/23	OWNER REVIEW SET	ERK	
2	11/15/23	BID AND PERMIT SET	BNH	
3	2/22/24	REVISED BID AND PERMIT SET	BNH	
4				
5				
6				

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RACETRAC
200 GALLERIA PARKWAY SE
SUITE 900
ATLANTA, GA 30339
770.431.7600

STORE #1644
18 RADIO LANE
CLAYTON, GA 30525

DIAMOND Z
ENGINEERING, INC.

RETAIL TANK LAYOUT AND PIPING PLAN -
EDO SHARED TANK LAYOUT

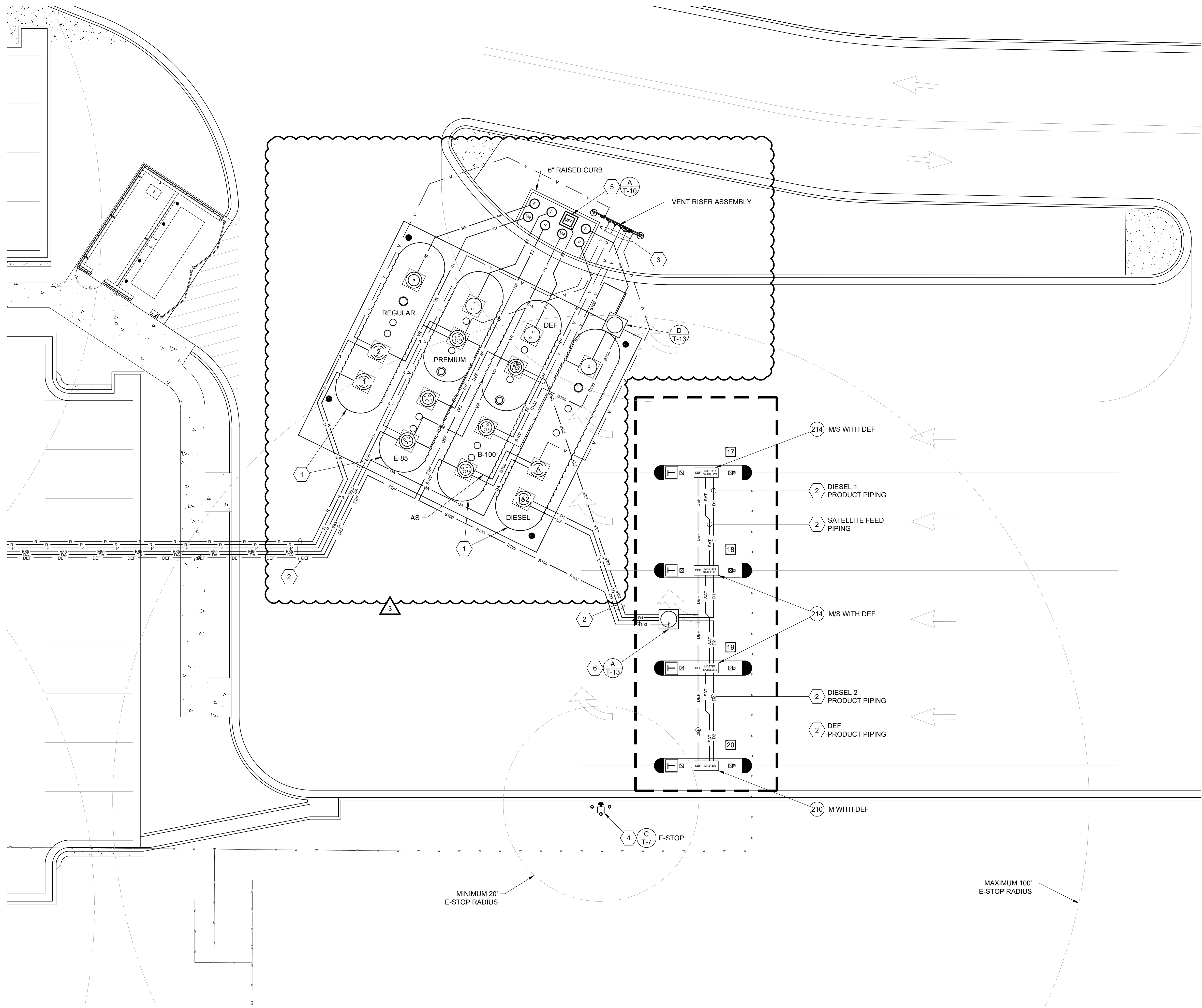
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DATE: 11/15/2023

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PROJECT NO.: GA-4700

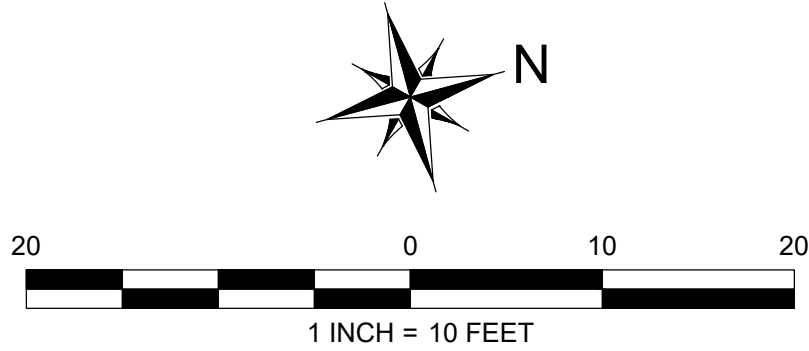
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F-2A



KEY CONSTRUCTION NOTES:

- INSTALL THE FOLLOWING DOUBLE WALL U.L. LISTED UNDERGROUND STORAGE TANKS:
(1) 20,000 GALLON TANK FOR REGULAR
(1) 24,000 GALLON TANK SPLIT
12,000 PREMIUM AND 12,000 E-85
(1) 24,000 GALLON TANK SPLIT
12,000 DEF AND 12,000 B-100
(1) 24,000 GALLON TANK FOR DIESEL
COORDINATE WITH TANK INSTALLATION DRAWINGS.
- INSTALL 3" OVER 2" DOUBLE WALL FIBERGLASS RIGID PRODUCT PIPING. ALL SATELLITE FEEDS ARE 3" OVER 2".
- INSTALL 3" SINGLE WALL FIBERGLASS RIGID VENT PIPING FOR ALL TANKS EXCEPT THE DEF TANK. DEF WILL GET A 2" VENT.
- INSTALL (5) EMERGENCY STOPS (48" HIGH MAX.), (1) EMERGENCY STOP TO BE INSTALLED AT CASHIER COUNTER, (2) EMERGENCY STOPS SHALL BE INSTALLED ON THE OUTSIDE OF THE BUILDING. (2) EMERGENCY STOPS TO BE INSTALLED ON REMOTE BOLLARDS SO THAT EACH ENTIRE DISPENSER IS MINIMUM 20' AND MAXIMUM 100' FROM AN EMERGENCY STOP PER NFPA-30A. OWNER TO SUPPLY AND CONTRACTOR TO INSTALL APPROPRIATE SIGNAGE.
- INSTALL REMOTE FILL FOR DEF TANK.
- INSTALL PIPE TRANSITION SUMP PER DETAILS ON SHEET T-13.

- LEGEND:
- RF — REMOTE FILL PIPING, 4" S/W F/G
 - R — REGULAR GASOLINE PRODUCT PIPING, 2 1/3" D/W F/G *
 - P — PREMIUM PRODUCT PIPING, 2 1/3" D/W F/G *
 - DA — DIESEL A PRODUCT PIPING, 2 1/3" D/W F/G *
 - DB — DIESEL B PRODUCT PIPING, 2 1/3" D/W F/G *
 - E-85 — E-85 PRODUCT PIPING, 2 1/3" D/W F/G *
 - V — VENT PIPING, 3" S/W F/G
 - VR — VAPOR RECOVERY PIPING, 3" S/W F/G
 - AS — ACTIVE SIPHON PIPING, 2 1/3" D/W F/G *
 - FUS — FUTURE USE SIPHON PIPING, 2 1/3" D/W F/G *
 - D1 — DIESEL, TANK 1, PRODUCT PIPING, 2 1/3" D/W F/G *
 - D2 — DIESEL, TANK 2, PRODUCT PIPING, 2 1/3" D/W F/G *
 - B100 — B-100 DIESEL, TANK 1, PRODUCT PIPING, 2 1/3" D/W F/G *
 - DEF — DEF PRODUCT PIPING, 2 1/3" D/W F/G *
 - SAT — MASTER/SATELLITE PIPING, 2 1/3" D/W F/G



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2	11/15/23	BNH		
3	2/22/24	BNH		

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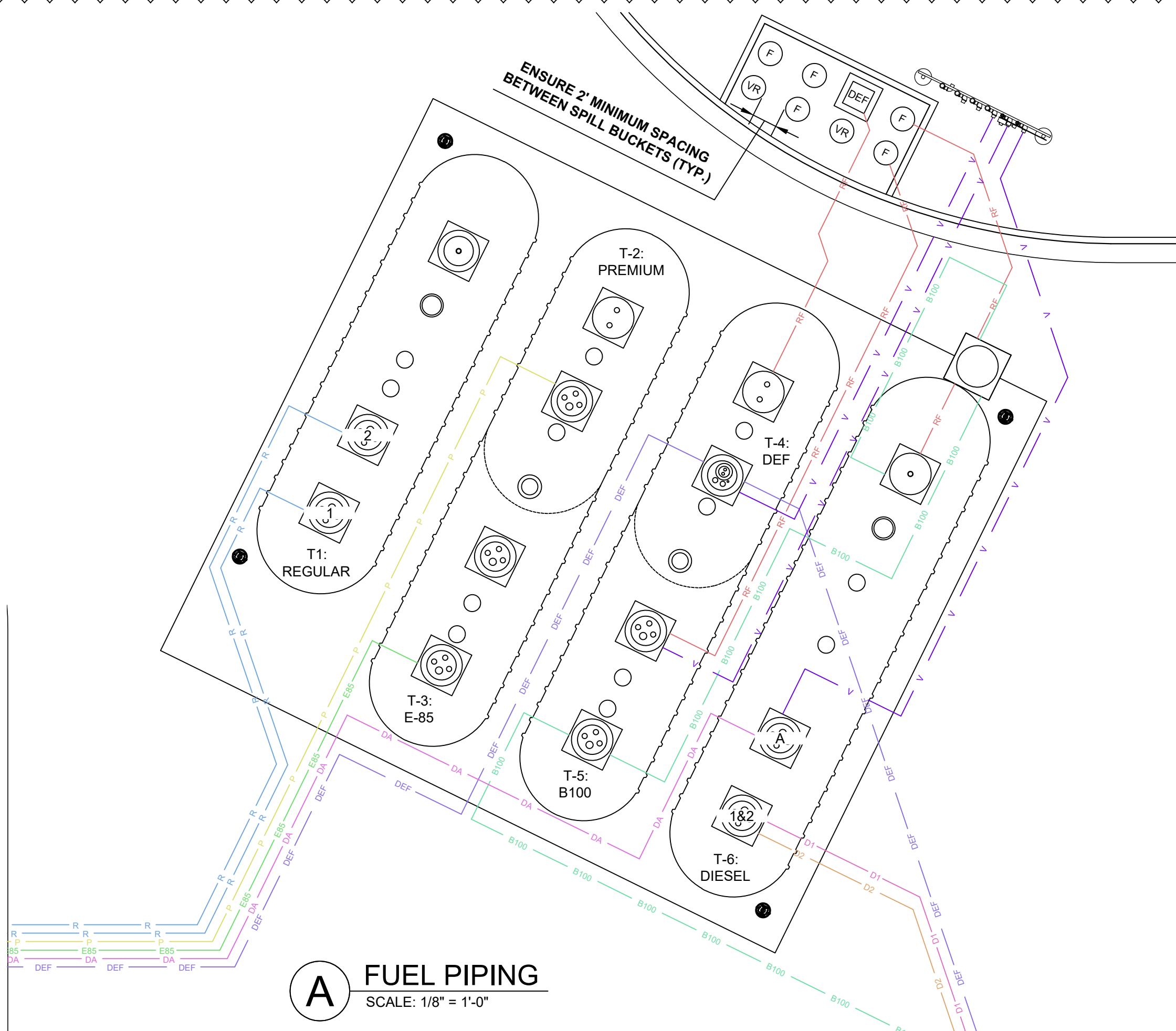
DIAMOND Z
ENGINEERING, INC.
TRUCK TANK LAYOUT AND PIPING PLAN -
EDO SHARED TANK LAYOUT

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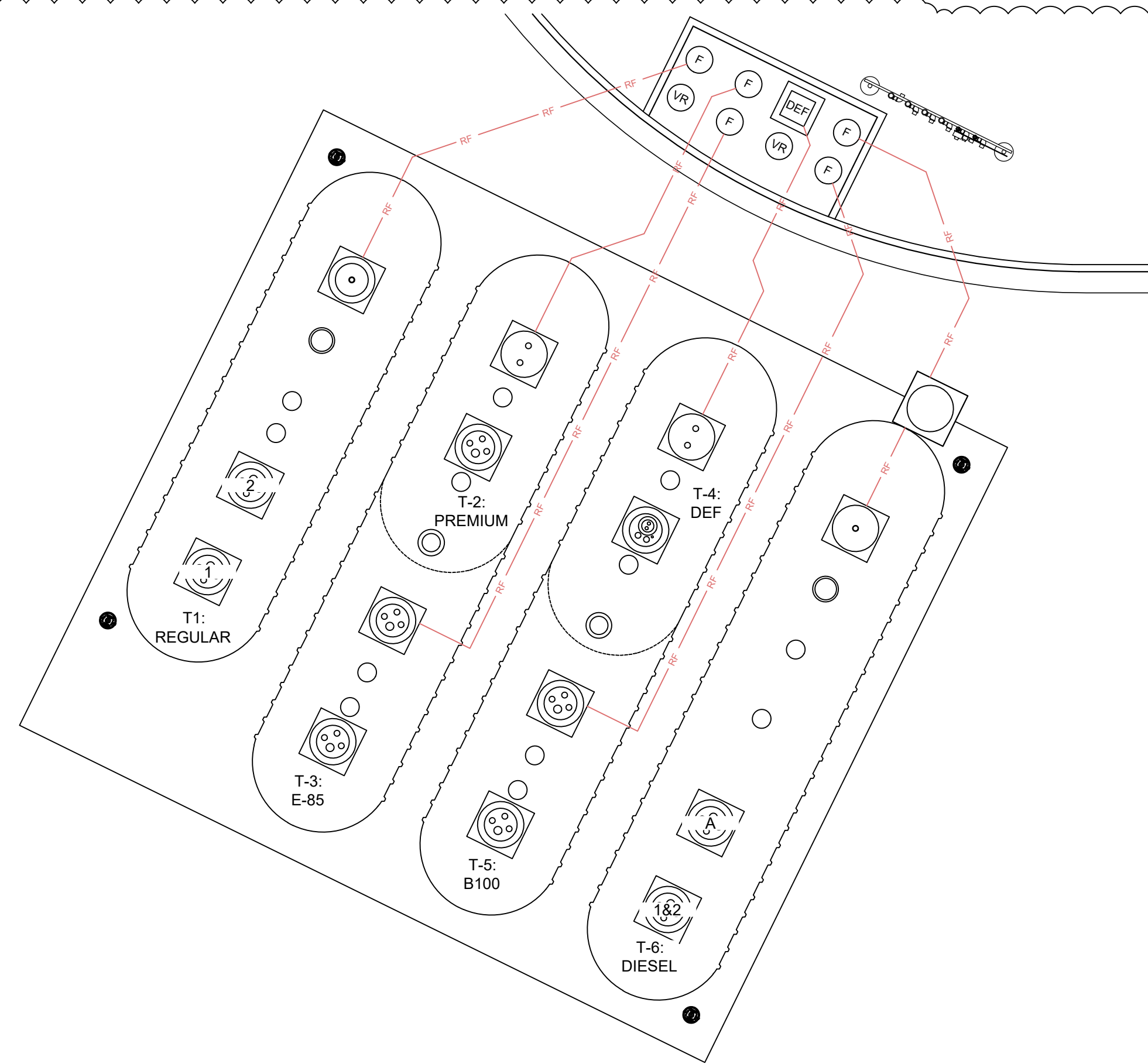
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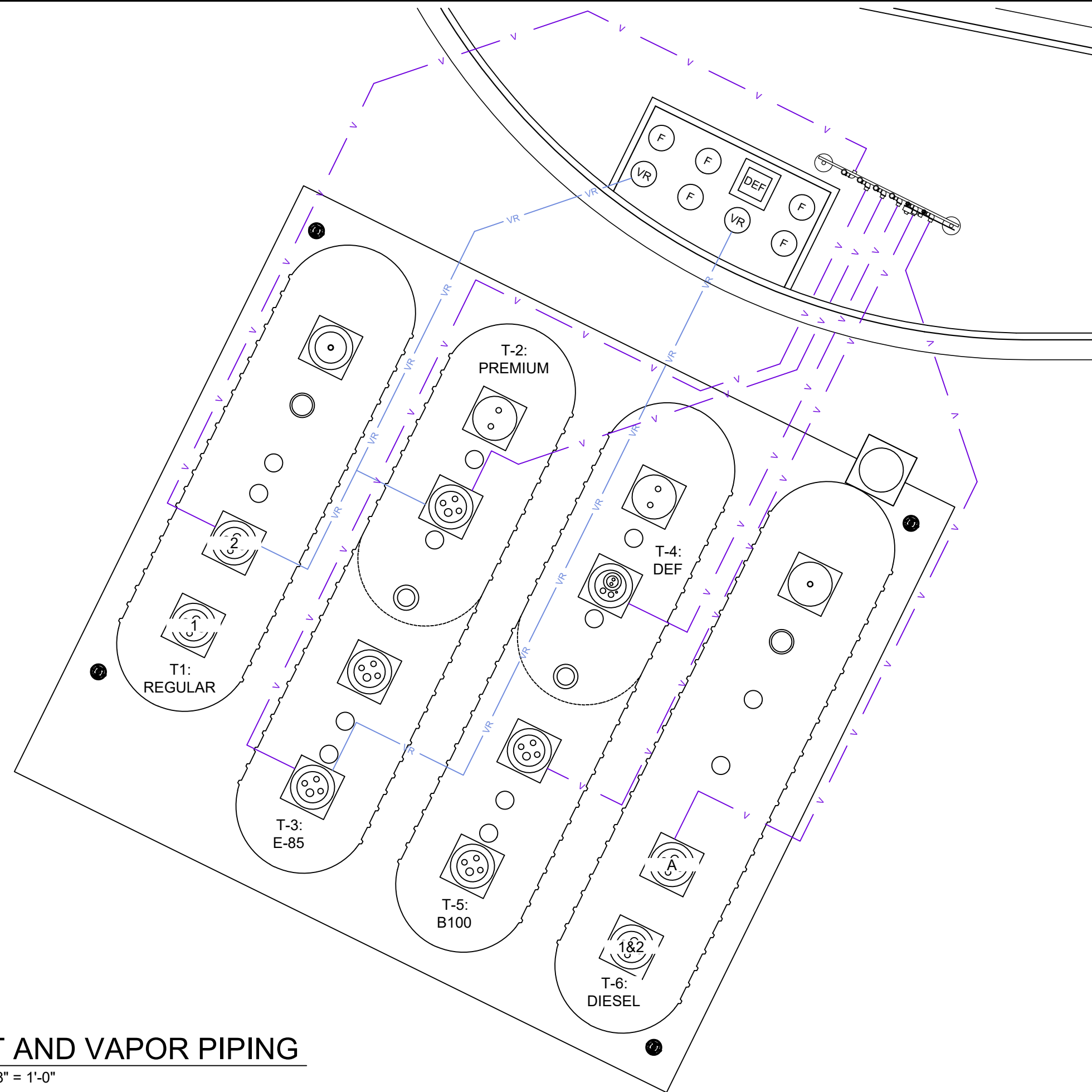
DRAWING NO.
F-2B



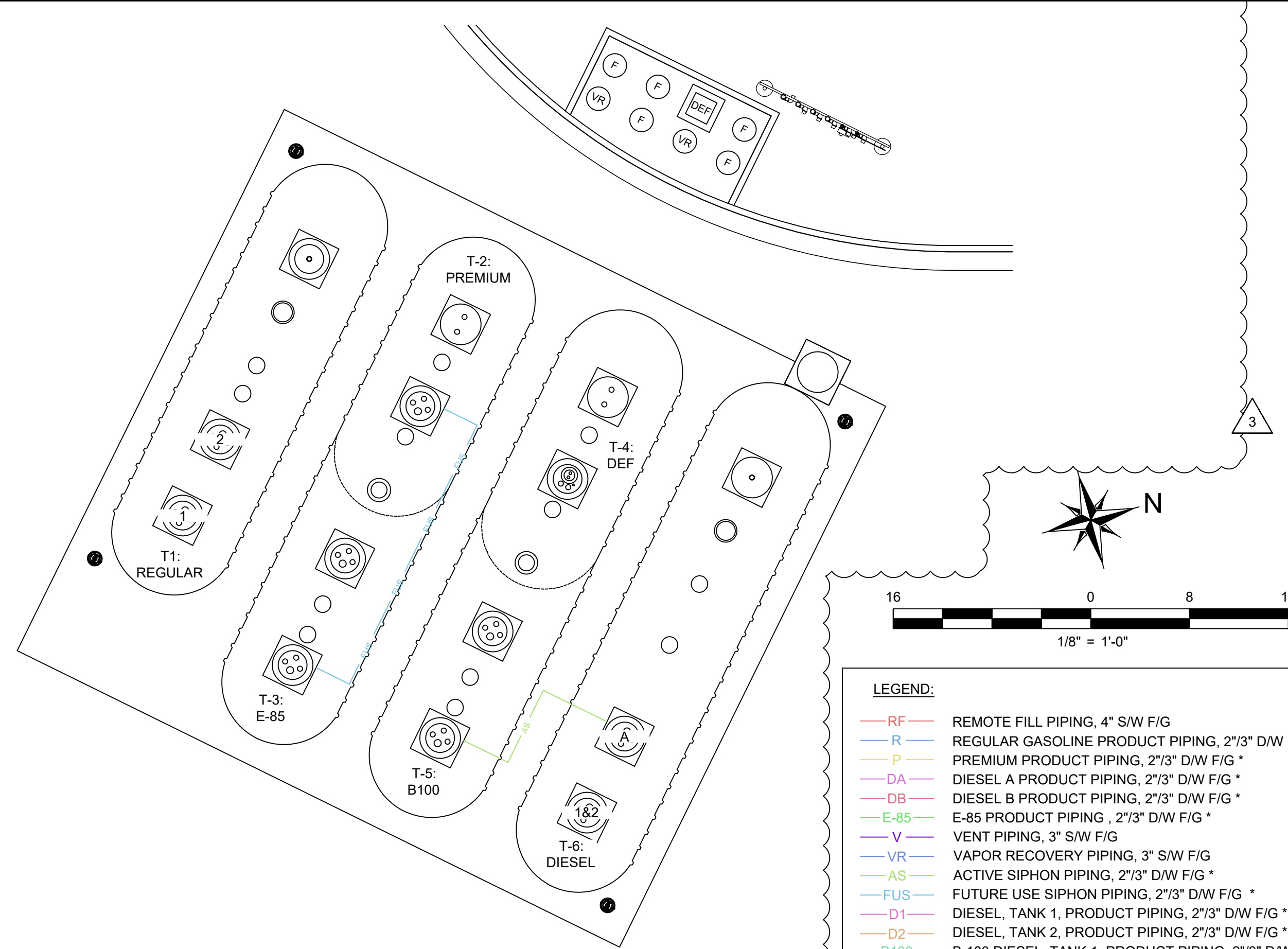
A FUEL PIPING
SCALE: 1/8" = 1'-0"



B REMOTE FILLS
SCALE: 1/8" = 1'-0"



C VENT AND VAPOR PIPING
SCALE: 1/8" = 1'-0"



D FUS AND AS SIPHONS
SCALE: 1/8" = 1'-0"

LEGEND:

RF	REMOTE FILL PIPING, 4" S/W F/G
R	REGULAR GASOLINE PRODUCT PIPING, 2 1/3" D/W F/G *
P	PREMIUM PRODUCT PIPING, 2 1/3" D/W F/G *
DA	DIESEL A PRODUCT PIPING, 2 1/3" D/W F/G *
DB	DIESEL B PRODUCT PIPING, 2 1/3" D/W F/G *
E-85	E-85 PRODUCT PIPING, 2 1/3" D/W F/G *
V	VENT PIPING, 3" S/W F/G
VR	VAPOR RECOVERY PIPING, 3" S/W F/G
AS	ACTIVE SIPHON PIPING, 2 1/3" D/W F/G *
FUS	FUTURE USE SIPHON PIPING, 2 1/3" D/W F/G *
D1	DIESEL, TANK 1, PRODUCT PIPING, 2 1/3" D/W F/G *
D2	DIESEL, TANK 2, PRODUCT PIPING, 2 1/3" D/W F/G *
B100	B-100 DIESEL, TANK 1, PRODUCT PIPING, 2 1/3" D/W F/G *
DEF	DEF PRODUCT PIPING, 2 1/3" D/W F/G *
SAT	MASTER/SATELLITE PIPING, 2 1/3" D/W F/G

REVISIONS			
OWNER REVIEW SET	11/15/23	ERK	
BID AND PERMIT SET	11/15/23	BNH	
REVISED BID AND PERMIT SET	2/22/24	BNH	

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DIAMOND Z
ENGINEERING, INC.

TANK LAYOUT AND PIPING PLAN -
EDO SHARED TANK LAYOUT

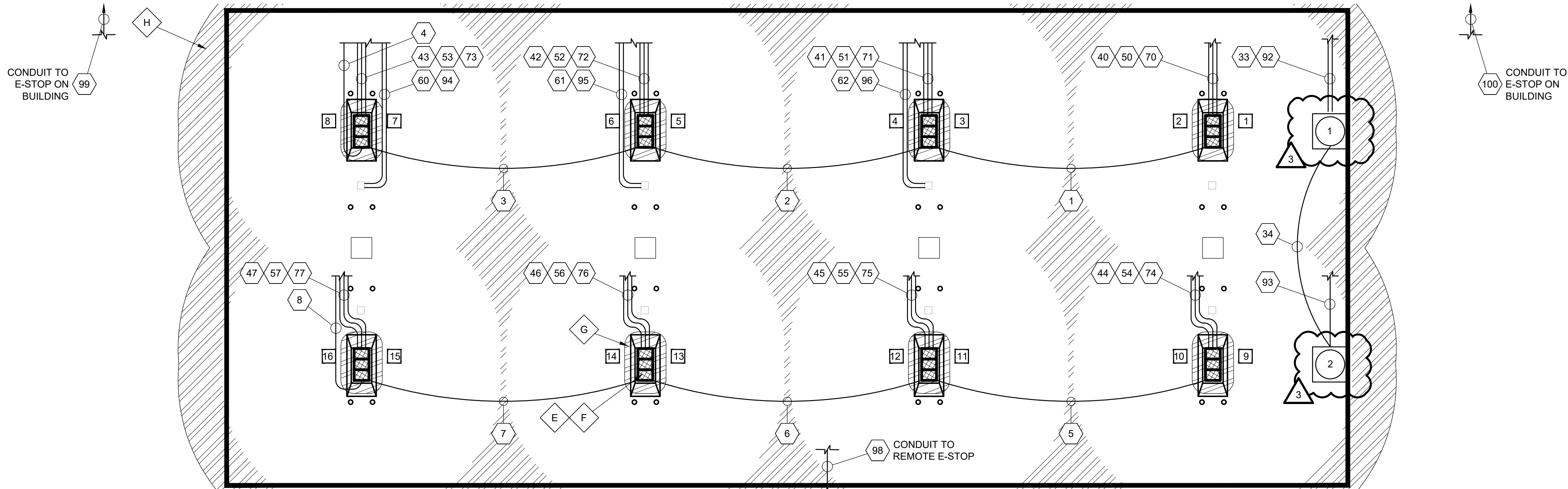
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SCALE: 1/8" = 1'-0" DATE: 11/15/2023

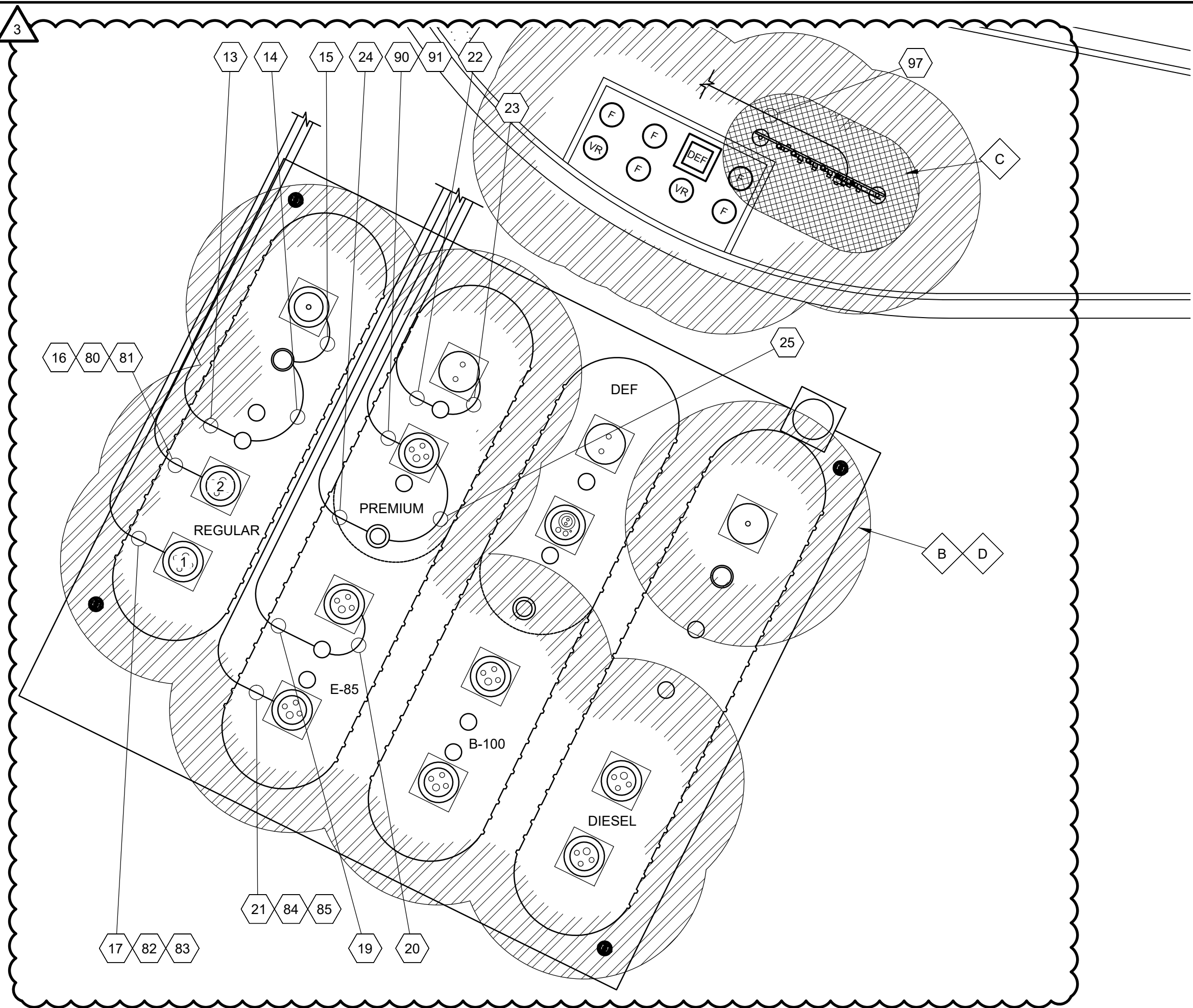
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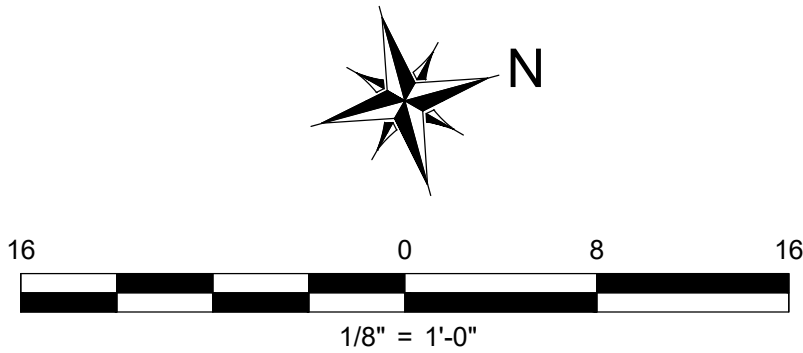
CONDUIT LEGEND						
CONDUIT	SIZE	MATERIAL	TYPE	SOURCE	DESTINATION	PURPOSE
1	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 5/6	DISPENSER 1/2	SUMP SENSOR
2	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 9/10	DISPENSER 5/6	SUMP SENSOR
3	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 13/14	DISPENSER 9/10	SUMP SENSOR
4	1"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 13/14	SUMP SENSOR
5	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 7/8	DISPENSER 3/4	SUMP SENSOR
6	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 11/12	DISPENSER 7/8	SUMP SENSOR
7	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 15/16	DISPENSER 11/12	SUMP SENSOR
8	1"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 15/16	SUMP SENSOR
13	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	REGULAR TANK GAUGE	TANK GAUGE, SUMP SENSOR AND INTERSTITIAL MONITOR
14	3/4"	RMC/PVC	INTRINSICALLY SAFE	REGULAR TANK GAUGE	REGULAR TANK INTERSTITIAL	SUMP SENSOR AND INTERSTITIAL MONITOR
15	3/4"	RMC/PVC	INTRINSICALLY SAFE	REGULAR TANK INTERSTITIAL	REGULAR TANK FILL SUMP	SUMP SENSOR
16	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	REGULAR STP SUMP #1	SUMP SENSOR AND DPLLD
17	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	REGULAR STP SUMP #2	SUMP SENSOR AND DPLLD
19	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	E-85 TANK GAUGE	SUMP SENSOR AND TANK GAUGE
20	3/4"	RMC/PVC	INTRINSICALLY SAFE	E-85 TANK GAUGE	E-85 FILL SUMP	SUMP SENSOR
21	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	E-85 STP SUMP	SUMP SENSOR AND FUTURE DPLLD
22	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	PREMIUM TANK GAUGE	SUMP SENSOR AND TANK GAUGE
23	3/4"	RMC/PVC	INTRINSICALLY SAFE	PREMIUM TANK GAUGE	PREMIUM FILL SUMP	SUMP SENSOR
24	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	PREMIUM / E85 INTERSTITIAL	INTERSTITIAL MONITOR, SUMP SENSOR AND DPLLD
25	3/4"	RMC/PVC	INTRINSICALLY SAFE	PREMIUM / E85 INTERSTITIAL	PREMIUM STP SUMP	SUMP SENSOR AND DPLLD
33	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	RETAIL TRANSITION SUMP #1	RETAIL TRANSITION SUMP SENSORS
34	3/4"	RMC/PVC	INTRINSICALLY SAFE	RETAIL TRANSITION SUMP #1	RETAIL TRANSITION SUMP #2	SUMP SENSOR
40	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 1/2	DATA & COMMUNICATION
41	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 3/4	DATA & COMMUNICATION
42	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 5/6	DATA & COMMUNICATION
43	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 7/8	DATA & COMMUNICATION
44	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 9/10	DATA & COMMUNICATION
44	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 11/12	DATA & COMMUNICATION
46	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 13/14	DATA & COMMUNICATION
47	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 15/16	DATA & COMMUNICATION
50	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 1/2	SPARE - PULL STRING ONLY - FUTURE CAT-6
51	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 3/4	SPARE - PULL STRING ONLY - FUTURE CAT-6
52	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 5/6	SPARE - PULL STRING ONLY - FUTURE CAT-6
53	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 7/8	SPARE - PULL STRING ONLY - FUTURE CAT-6
54	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 9/10	SPARE - PULL STRING ONLY - FUTURE CAT-6
55	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 11/12	SPARE - PULL STRING ONLY - FUTURE CAT-6
56	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 13/14	SPARE - PULL STRING ONLY - FUTURE CAT-6
57	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 15/16	SPARE - PULL STRING ONLY - FUTURE CAT-6
60	1"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	CANOPY COLUMN (INTERNAL)	CAMERAS
61	1"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	CANOPY COLUMN (INTERNAL)	CAMERAS
62	1"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	CANOPY COLUMN (INTERNAL)	CAMERAS
70	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 1/2	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
71	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 3/4	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
72	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 5/6	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
73	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 7/8	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
74	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 9/10	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
75	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 11/12	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
76	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 13/14	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
77	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 15/16	DISPENSER POWER (INCLUDE (5) HOOK SIGNAL WIRES)
80	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR STP SUMP #1	PUMP POWER
81	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR STP SUMP #1	SPARE - PULL STRING ONLY
82	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR STP SUMP #2	PUMP POWER
83	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR STP SUMP #2	SPARE - PULL STRING ONLY
84	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	E-85 STP SUMP	PUMP POWER
85	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	E-85 STP SUMP	SPARE - PULL STRING ONLY

90	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	PREMIUM STP SUMP	PUMP POWER
91	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	PREMIUM STP SUMP	SPARE - PULL STRING ONLY
92	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	RETAIL TRANSITION SUMP #1	SPARE - PULL STRING ONLY
93	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	RETAIL TRANSITION SUMP #2	SPARE - PULL STRING ONLY
94	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	CANOPY COLUMN (INTERNAL)	SPARE (INSTALL PULL STRING)
95	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	CANOPY COLUMN (INTERNAL)	SPARE (INSTALL PULL STRING)
96	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	CANOPY COLUMN (INTERNAL)	CANOPY LIGHTING
97	3/4"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	VENT RISER ASSEMBLY	OVERFILL ALARM
98	3/4"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REMOTE EMERGENCY STOP	EMERGENCY STOP
99	3/4"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	BUILDING EMERGENCY STOP	EMERGENCY STOP
100	3/4"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	BUILDING EMERGENCY STOP	EMERGENCY STOP



N.E.C. HAZARDOUS AREA NOTES

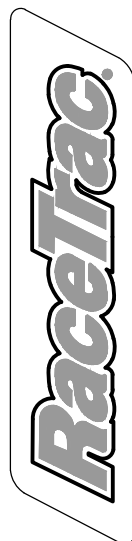
- A. ALL CONDUIT ENTERING AND LEAVING THE CLASSIFIED/ HAZARDOUS AREAS SHALL HAVE SEAL-OFFS PER N.E.C. 501.5(A)
- B. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.
- EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.
- C. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
- D. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP - OUTDOORS)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP.
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
WITHIN 3 FEET OR ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTIONS. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.
- E. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - PITS)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.
- F. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)
EXTENT OF CLASS 1, GROUP D, DIVISION 1
LOCATION:
SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."
- G. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS.
- H. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.



CONSTRUCTION NOTES:

- FSC TO INSTALL THE FIBERGLASS CONDUIT ENTRY FITTINGS.
- CONDUIT TO BE RIGID NON-METALLIC AS PERMITTED BY AHJ. THE LAST 10' OF EACH CONDUIT RUN SHALL BE RIGID METAL GALVANIZED CONDUIT. NO IMC ALLOWED (ALL RMC IN ILLINOIS).
- ALL VEEDER ROOT CABLING MUST MATCH THE WIRE AND CABLE CHART ON FE-2 OR BE AN APPROVED EQUAL.
- ALL CAT 6 CABLING MUST BE BELDEN 7931A, GENERAL WIRE 030-7781 OR APPROVED EQUAL. PROVIDE 5' COILED IN DISPENSER HEAD AND 20' COILED IN COMMUNICATION CABINET.
- ALL CONDUITS TO THE STP'S WILL BE RIGID METALLIC CONDUIT THE ENTIRE RUN.
- ELECTRICIAN WILL PULL A SPARE WIRE TO THE E-85 STP TANK SUMP FOR A FUTURE DPLLD INSTALL (BY OTHERS).

REVISIONS			
ERK	BNH	BNH	
11/15/23	11/15/23	2/22/24	
OWNER REVIEW SET			
BID AND PERMIT SET			
REVISED BID AND PERMIT SET			



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RETAIL CONDUIT AND HAZARDOUS AREA -
EDO SHARED TANK LAYOUT

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SCALE:

1/8" = 1'-0"

DATE:

11/15/2023

DRAWN BY:

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PROJECT NO.:

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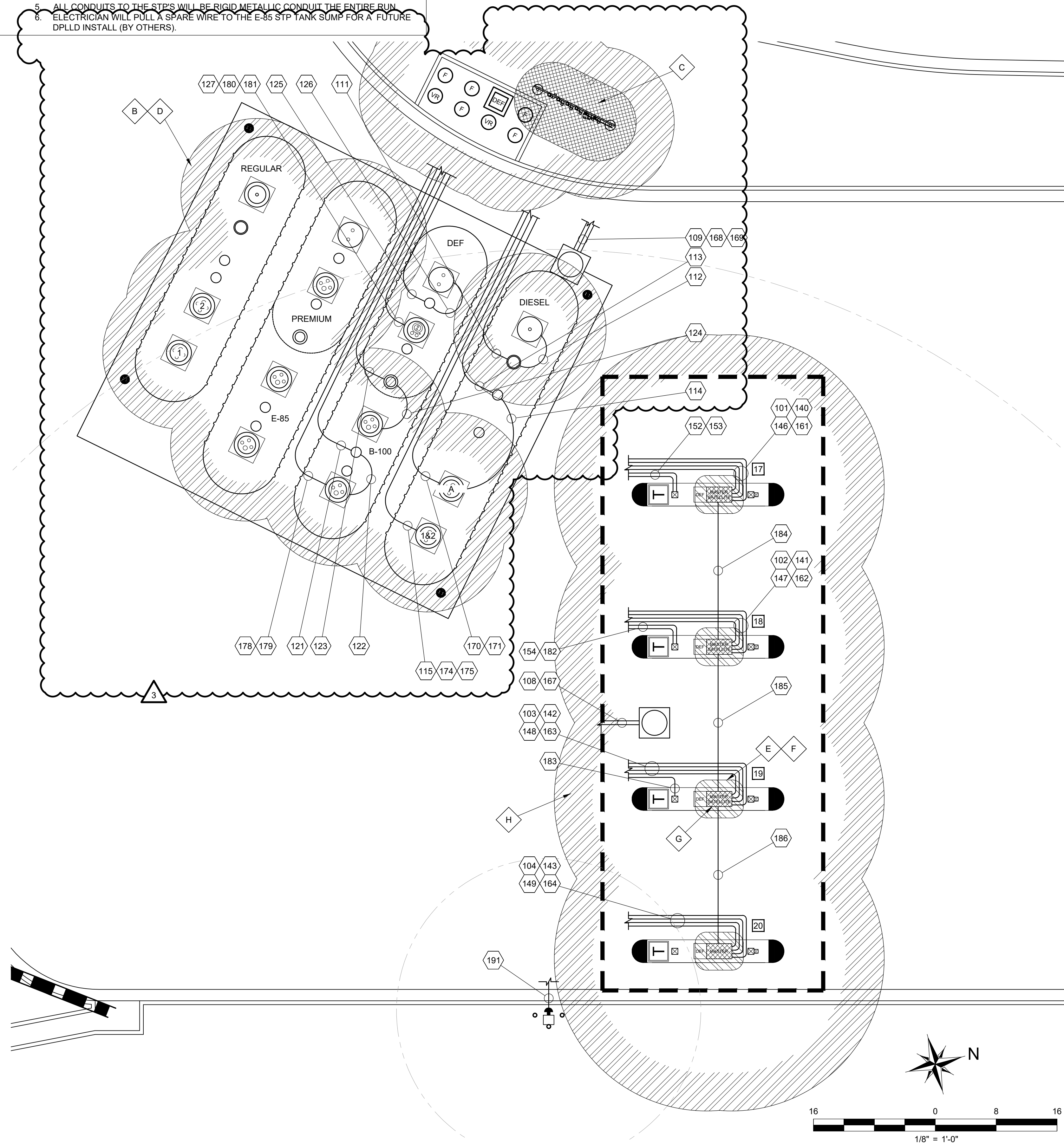
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FE-1A



CONSTRUCTION NOTES:

1. FSC TO INSTALL THE FIBERGLASS CONDUIT ENTRY FITTINGS.
2. CONDUIT TO BE RIGID NON-METALLIC AS PERMITTED BY AHJ. THE LAST 10' OF EACH CONDUIT RUN SHALL BE RIGID METAL GALVANIZED CONDUIT. NO IMC ALLOWED (ALL RMC IN ILLINOIS).
3. ALL VEEDER ROOT CABLING MUST MATCH THE WIRE AND CABLE CHART ON FE-2 OR BE AN APPROVED EQUAL.
4. ALL CAT 6 CABLING MUST BE BELDEN 7931A, GENERAL WIRE 030-7781 OR APPROVED EQUAL. PROVIDE 5' COILED IN DISPENSER HEAD AND 20' COILED IN COMMUNICATION CABINET.
5. ALL CONDUITS TO THE STP'S WILL BE RIGID METALLIC CONDUIT THE ENTIRE RUN.
6. ELECTRICIAN WILL PULL A SPARE WIRE TO THE E-85 STP TANK SUMP FOR A FUTURE DPLLD INSTALL (BY OTHERS).



CONDUIT LEGEND

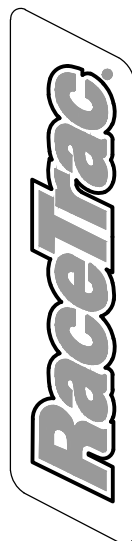
CONDUIT	SIZE	MATERIAL	TYPE	SOURCE	DESTINATION	PURPOSE
101	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 17	SUMP SENSOR
102	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 18	SUMP SENSOR
103	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 19	SUMP SENSOR
104	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 20	SUMP SENSOR
108	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	PIPING TRANSITION SUMP	SUMP SENSOR
109	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	BIO-BLENDER SUMP #1	SUMP SENSOR
111	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DIESEL INTERSTITIAL RISER	INTERSTITIAL MONITOR AND SUMP SENSOR
112	3/4"	RMC/PVC	INTRINSICALLY SAFE	DIESEL INTERSTITIAL RISER	DIESEL FILL SUMP	SUMP SENSOR
113	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DIESEL TANK GAUGE	TANK GAUGE, DPLLD, AND SUMP SENSOR
114	3/4"	RMC/PVC	INTRINSICALLY SAFE	DIESEL TANK GAUGE	DIESEL STP #1 SUMP	DPLLD AND SUMP SENSOR
115	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DIESEL STP #2 SUMP	DPLLD AND SUMP SENSOR
121	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	B-100 TANK GAUGE	TANK GAUGE, DPLLD AND SUMP SENSOR
122	3/4"	RMC/PVC	INTRINSICALLY SAFE	B-100 TANK GAUGE	B-100 STP SUMP	DPLLD AND SUMP SENSOR
123	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	B-100/DEF TANK INTERSTITIAL	TANK INTERSTITIAL MONITOR AND SUMP SENSOR
124	3/4"	RMC/PVC	INTRINSICALLY SAFE	B-100/DEF TANK INTERSTITIAL	B-100 FILL SUMP	SUMP SENSOR
125	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DEF TANK GAUGE	TANK GAUGE AND SUMP SENSORS
126	3/4"	RMC/PVC	INTRINSICALLY SAFE	DEF TANK GAUGE	DEF TANK FILL SUMP	SUMP SENSOR
127	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DEF TANK STP SUMP	SUMP SENSOR
140	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 17	DATA & COMMUNICATION
141	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 18	DATA & COMMUNICATION
142	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 19	DATA & COMMUNICATION
143	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 20	DATA & COMMUNICATION
146	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 17	SPARE - PULL STRING ONLY - FUTURE CAT-6
147	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 18	SPARE - PULL STRING ONLY - FUTURE CAT-6
148	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 19	SPARE - PULL STRING ONLY - FUTURE CAT-6
149	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 20	SPARE - PULL STRING ONLY - FUTURE CAT-6
152	1"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	CANOPY COLUMN (INTERNAL)	CAMERAS
153	1"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	CANOPY COLUMN (INTERNAL)	CAMERAS
154	1"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	CANOPY COLUMN (INTERNAL)	CAMERAS
161	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 17	DISPENSER POWER
162	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 18	DISPENSER POWER
163	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 19	DISPENSER POWER
164	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 20	DISPENSER POWER
167	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	PIPING TRANSITION SUMP	SPARE - PULL STRING ONLY
168	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	BIO-BLENDER SUMP #1	PUMP POWER AND PULSERS
169	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	BIO-BLENDER SUMP #1	FLOW SWITCH POWER
170	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DIESEL #1 STP SUMP	PUMP POWER
171	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DIESEL #1 STP SUMP	PUMP POWER
174	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DIESEL #2 STP SUMP	PUMP POWER
175	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DIESEL #2 STP SUMP	SPARE - PULL STRING ONLY
178	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	B-100 STP SUMP	PUMP POWER
179	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	B-100 STP SUMP	SPARE - PULL STRING ONLY
180	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DEF TANK STP SUMP	PUMP POWER
181	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DEF TANK STP SUMP	SPARE - PULL STRING ONLY
182	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	CANOPY COLUMN (INTERNAL)	CANOPY LIGHTING
183	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	CANOPY COLUMN (INTERNAL)	CANOPY LIGHTING
184	3/4"	RMC	HIGH VOLTAGE	MASTER DISPENSER 18	MASTER DISPENSER 17	SATELLITE DISPENSER POWER
185	3/4"	RMC	HIGH VOLTAGE	MASTER DISPENSER 19	MASTER DISPENSER 18	SATELLITE DISPENSER POWER
186	3/4"	RMC	HIGH VOLTAGE	MASTER DISPENSER 20	MASTER DISPENSER 19	SATELLITE DISPENSER POWER
191	3/4"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REMOTE BOLLARD E-STOP	EMERGENCY STOP

N.E.C. HAZARDOUS AREA NOTES

- ◇ ALL CONDUIT ENTERING AND LEAVING THE CLASSIFIED/ HAZARDOUS AREAS SHALL HAVE SEAL-OFFS PER N.E.C. 501.5(A)
- B. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.
- EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.
- C. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.
- D. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP - OUTDOORS)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP.
- EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
WITHIN 3 FEET OR ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTIONS. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.
- E. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - PITS)
EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.
- F. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)
EXTENT OF CLASS 1, GROUP D, DIVISION 1
LOCATION:
SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."
- G. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS.
- H. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.

REVISIONS

REVISIONS	11/15/23	11/15/23	11/15/23	11/15/23	11/15/23	11/15/23
OWNER REVIEW SET						
BID AND PERMIT SET						
REVISED BID AND PERMIT SET						



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SCALE: 1/8" = 1'-0"	DATE: 11/15/2023
DRAWN BY: ERK	PROJECT NO.: GA-4700

DRAWING NO.
FE-1B

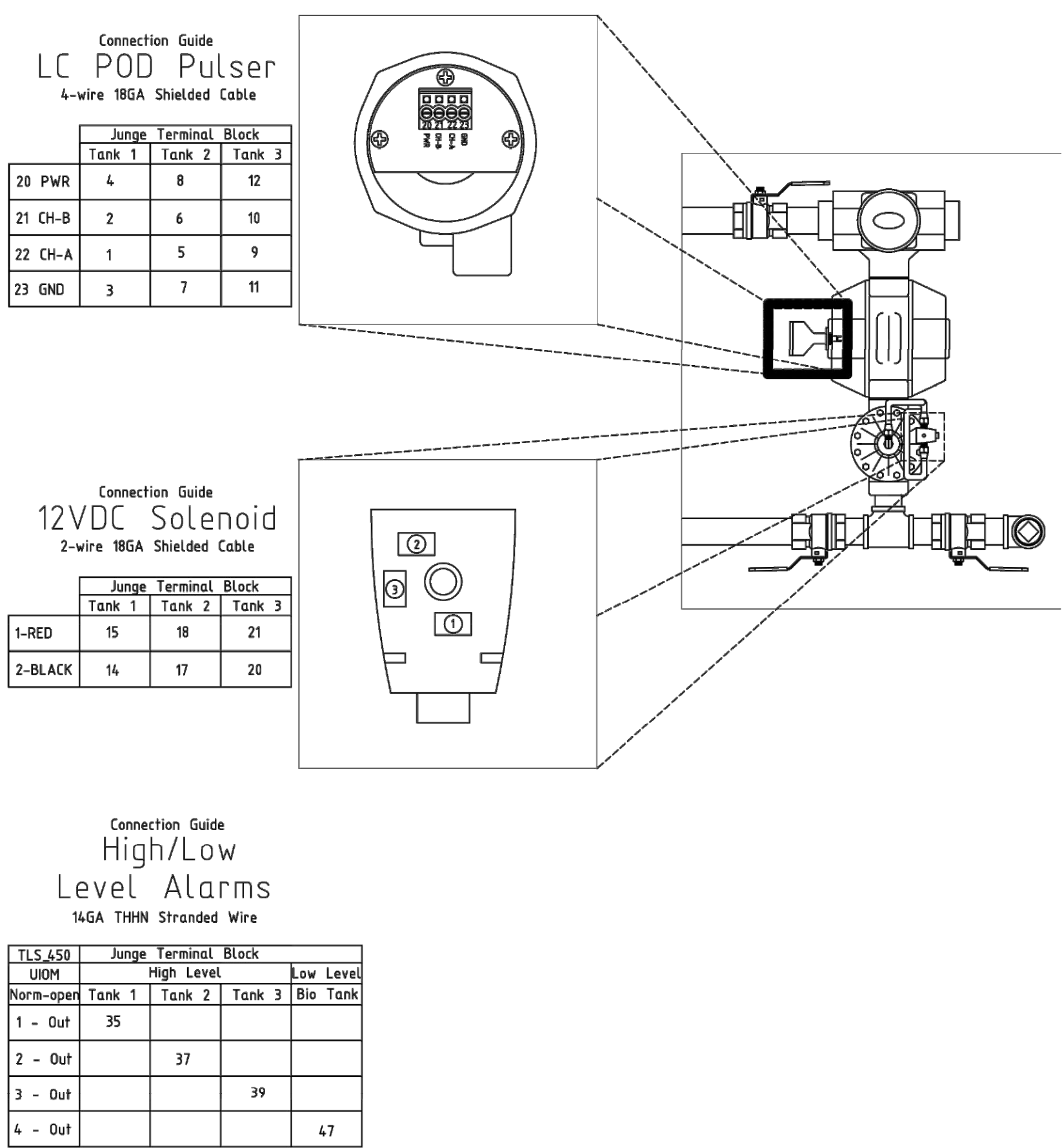
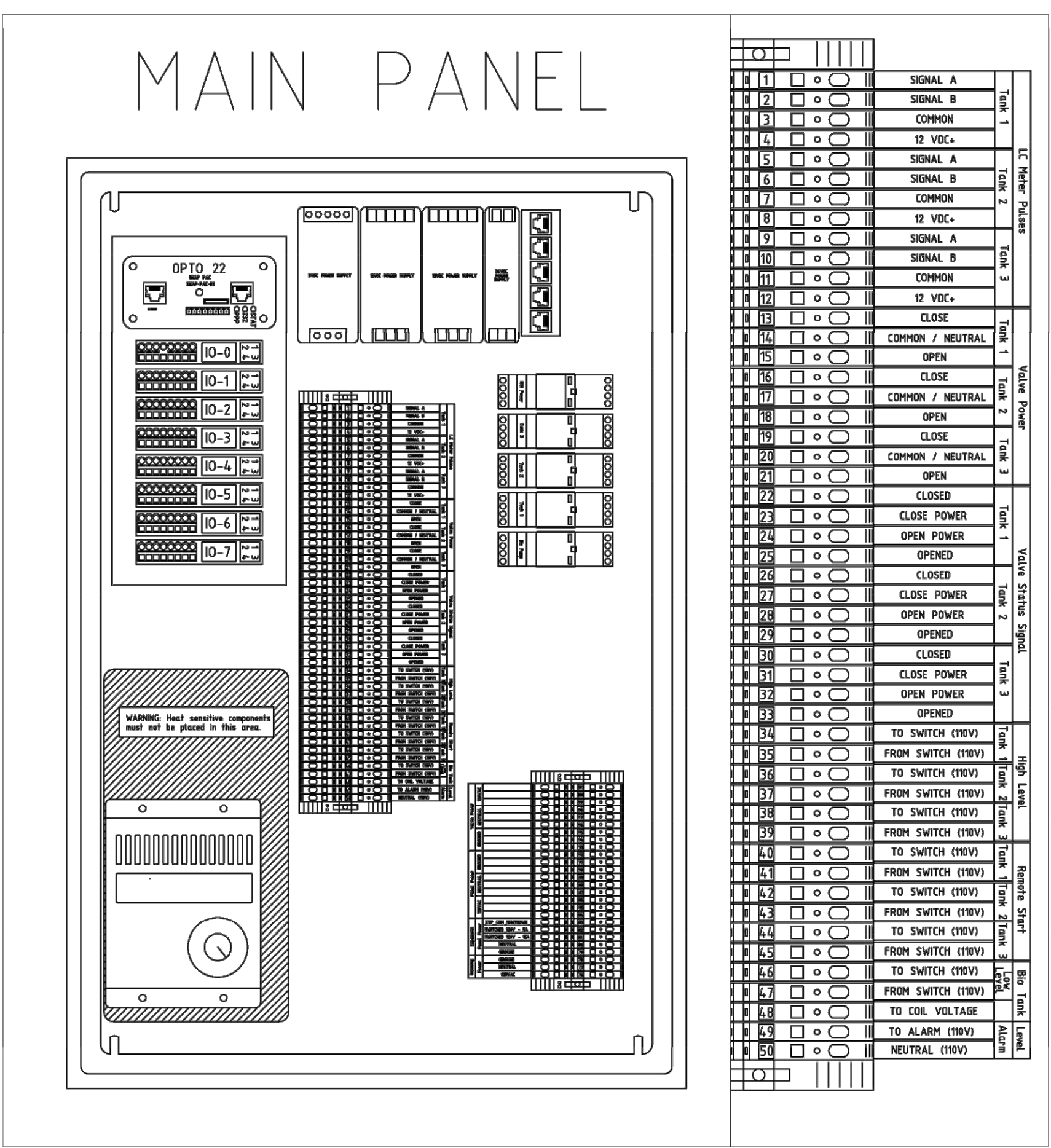
TRUCK CONDUIT AND HAZARDOUS AREA -
EDO SHARED TANK LAYOUT

DISPENSER WIRE AND CABLE REQUIREMENTS		
ALL WIRE AND CABLE WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR		
DEVICE	COLOR	SIZE *
REGULAR STP #1 - 4HP	TAN	#10 (MAX 200')
REGULAR STP #2 - 4HP	BROWN	#10 (MAX 200')
PREMIUM STP - 2HP	RED	#10 (MAX 200')
E85 STP - 2HP	BLUE	#10 (MAX 200')
AUTO DIESEL A STP - 2HP	BLACK	#10 (MAX 200')
AUTO DIESEL B STP - 2HP	PURPLE	#10 (MAX 200')
TRUCK DIESEL #1 STP - 4HP	ORANGE	#10 (MAX 200')
TRUCK DIESEL #2 STP - 4HP	YELLOW	#10 (MAX 200')
B100 STP - 2HP	PINK	#10 (MAX 200')
DEF STP - 1.5HP	LIGHT 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	AS NEEDED	#12
REGULAR #1 SWITCH LEG	TAN	#12
REGULAR #2 SWITCH LEG	BROWN	#12
PREMIUM SWITCH LEG	RED	#12
E85 SWITCH LEG	BLUE	#12
AUTO DIESEL A SWITCH LEG	BLACK	#12
AUTO DIESEL B SWITCH LEG	PURPLE	#12
TRUCK DIESEL #1 SWITCH LEG	ORANGE	#12
TRUCK DIESEL #2 SWITCH LEG	YELLOW	#12
B100 SWITCH LEG	PINK	#12
DEF SWITCH LEG	LIGHT BLUE	#12
DISPENSER DATA	BLACK & RED	#18 TWISTED PAIR
DISPENSER DATA	PURPLE & YELLOW (CRIND)	#18 TWISTED PAIR
DISPENSER INTERCOM	#22 SHIELDED, TWISTED, 2-PAIR	SMARTWIRE #FEP-22-2P-EPS
TANK GAUGE SENSORS	#18 SHIELDED, TWISTED, 2-WIRE	SMARTWIRE #FEP-18-02-OAS OR BELDEN 88760
BIO-DIESEL BLENDER (12-VOLT SOLENOID)	#18 SHIELDED, TWISTED, 2-WIRE	SMARTWIRE #FEP-18-02-OAS OR BELDEN 88760
BIO-DIESEL BLENDER (METERS)	#18 SHIELDED, TWISTED, 3-WIRE	SMARTWIRE #FEP-18-03-OAS
BIO-DIESEL BLENDER (PULSERS)	#18 SHIELDED, TWISTED, 4-WIRE	SMARTWIRE #FEP-18-04-OAS
* MINIMUM WIRE SIZE SHOWN - CONTRACTOR WILL ENSURE WIRE SIZE IS SUFFICIENT TO MAINTAIN MAXIMUM 3.0% VOLTAGE DROP FOR SITE SPECIFIC LAYOUT. CONTRACTOR TO COORDINATE WITH BUILDING ELECTRICAL DESIGN TO VERIFY CONDUIT ROUTING AND ELECTRICAL DESIGN.		

A

WIRE AND CABLE CHART

SCALE: NONE



REVISIONS				
ERK	BNH	BNH		
11/15/23	11/15/23	2/22/24		
OWNER REVIEW SET	BID AND PERMIT SET	REVISED BID AND PERMIT SET		

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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.

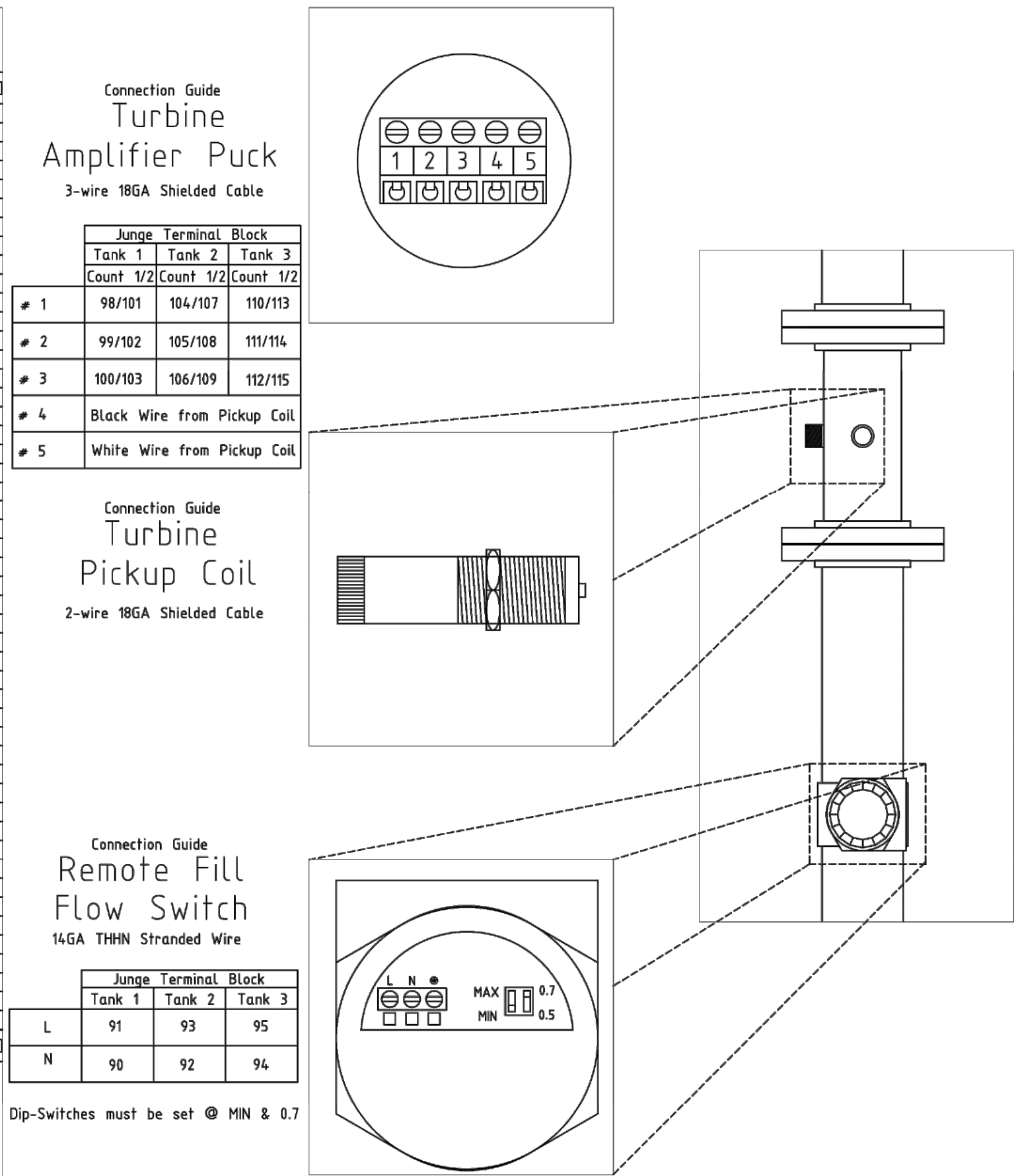
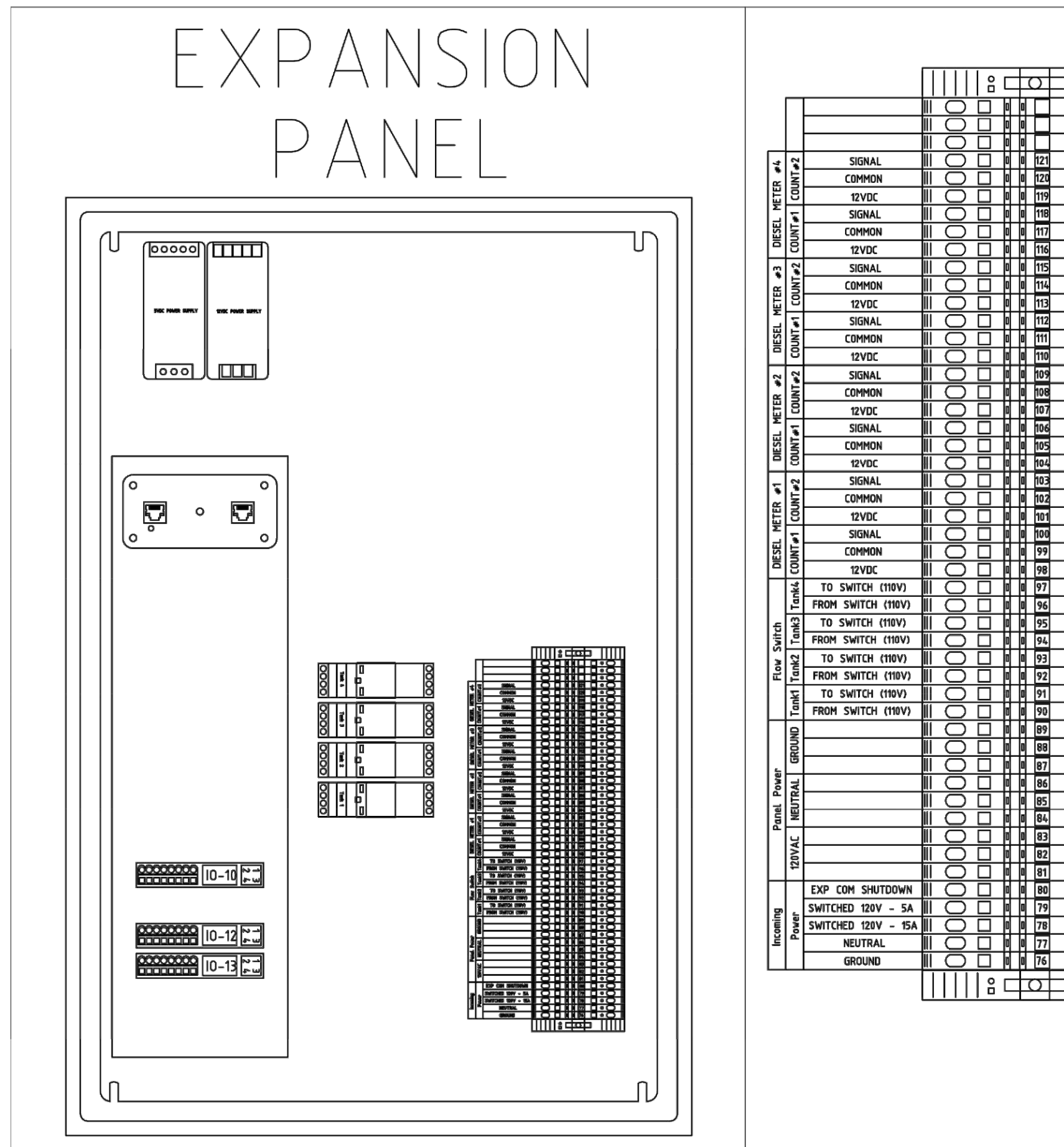
#6 Each diesel 4" turbine meter requires 2-3 conductor shielded cables. If located in the same sump with the bio meter these cables can be routed with the other Dc cables.

#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.

B

JUNGE ELECTRICAL DETAILS

SCALE: NONE



DIAMOND Z
ENGINEERING, INC.
ELECTRICAL DETAILS - WIRE AND
CABLE CHART AND JUNGE ELECTRICAL
DETAILS

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PROJECT NO.:
GA-4700

DRAWING NO.
FE-2

TANKS - OWNER SUPPLIED					TANKS - OWNER SUPPLIED (CONTINUED)					DISPENSERS - OWNER SUPPLIED (CONTINUED)				
ITEM	DESCRIPTION	MAKE	MODEL	QTY.	ITEM	DESCRIPTION	MAKE	MODEL	QTY.	ITEM	DESCRIPTION	MAKE	MODEL	QTY.
1	20,000 GALLON, SINGLE COMPARTMENT, DW UNDERGROUND STORAGE TANK WITH BRINE FILLED ANNULAR SPACE, (3) 4-INCH NPT SERVICE FITTINGS, (2) 22-INCH MANWAYS WITH (3) 4-INCH NPT FITTING & (1) 6" NPT FITTING IN COVER, (3) 42-INCH SQUARE SW CONTAINMENT COLLARS WITH TROUGH (SUPPLIED BY OWNERS, INSTALLED BY XERXES), DEADMEN, STRAPS AND TURNBUCKLES - (REGULAR)	ZCL/XERXES OR CSI		1	124	MONITOR WELL MANHOLE, CAST IRON, 18" DIAMETER, BOLTED, 19" SKIRT - (WHERE REQUIRED)	OPW	104AOW-1819	4	341	11B SERIES GREEN, B20, DIESEL PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, SPLASH GUARD, ALUMINUM SPOUT, AND 2-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	11B-8100-B20	16
2	24,000 GALLON, SINGLE COMPARTMENT, DW UNDERGROUND STORAGE TANK WITH BRINE FILLED ANNULAR SPACE, (3) 4-INCH NPT SERVICE FITTINGS, (2) 22-INCH MANWAYS WITH (3) 4-INCH NPT FITTING & (1) 6" NPT FITTING IN COVER, (3) 42-INCH SQUARE SW CONTAINMENT COLLARS WITH TROUGH (SUPPLIED BY OWNERS, INSTALLED BY XERXES), DEADMEN, STRAPS AND TURNBUCKLES - (TRUCK DIESEL)	ZCL/XERXES OR CSI		1	131	38-1/2 -INCH FIBERGLASS COMPOSITE, PLAIN GREY COVER, ROTO-LOCK MANHOLE WITH RECESSED HANDLE, 10-INCH SKIRT	OPW	38CD-RL10	18	342	11BP SERIES BLACK , E10, UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILLGUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	11BP-8400	16
3	24,000 GALLON, TWO-COMPARTMENT, DW UNDERGROUND STORAGE TANK WITH BRINE FILLED ANNULAR SPACE, (4) 4-INCH SERVICE FITTING, (2) 4-INCH STAINLESS STEEL SERVICE FITTINGS, (3) 22-INCH MANWAYS WITH (3) 4-INCH SERVICE FITTINGS AND (1) 6-INCH SERVICE FITTING IN COVER, (4) 42-INCH SQUARE SW CONTAINMENT COLLARS WITH TROUGH (SUPPLIED BY OWNER, INSTALLED BY XERXES), DEADMEN, STRAPS, AND TURNBUCKLES - (PREMIUM & E-0/E85)	ZCL/XERXES OR CSI		1	132	18-INCH BOLT DOWN MANHOLE WITH 10-INCH SKIRT	UNIVERSAL VALVE	98-1810	16	343	11BP SERIES BLUE, E0, UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 1-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILLGUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	11BP-8500	---
5	24,000 GALLON, TWO-COMPARTMENT, DW UNDERGROUND STORAGE TANK WITH BRINE FILLED ANNULAR SPACE, (2) 4-INCH SERVICE FITTING, (4) 4-INCH STAINLESS STEEL SERVICE FITTINGS, (1) 22-INCH MANWAY WITH STAINLESS STEEL "SPECIAL COVER (XERXES DRAWING #645-093), (2) 22-INCH MANWAYS WITH (3) 4-INCH SERVICE FITTINGS AND (1) 6-INCH SERVICE FITTING IN COVER, (4) 42-INCH SQUARE SW CONTAINMENT COLLARS WITH TROUGH (SUPPLIED BY OWNER, INSTALLED BY XERXES), DEADMEN, STRAPS, AND TURNBUCKLES - (DEF & B-100/DIESEL)	ZCL/XERXES OR CSI		1	141	1" STAINLESS STEEL FULL PORT BALL VALVE (E-85 & DEF)	JOMAR	100-965	4	344	11BP SERIES ORANGE, E15 (U88), UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILLGUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	11BP-0800-E25	16
10	42-INCH SQUARE TANK COLLAR WITH TROUGH FOR 10-FOOT DIAMETER UNDERGROUND STORAGE TANKS - SUPPLIED TO XERXES	PETROLEUM CONTAINMENT	CL4242U-10	14	142	1-1/2" STAINLESS STEEL FULL PORT BALL VALVE (E-85 & DEF)	JOMAR	100-967	---	345	21GU SERIES BLACK DEF AUTO NOZZLE FOR WITH M34 INLET, #3 GUARD, AND HAND INSULATOR, FOR USE WITHOUT MFPD -	OPW	21GU-040G	4
11	42-INCH SQUARE TANK SUMP, 48-INCH HIGH, 30-INCH BASE, TWIST-LOCK LID, NO BOTTOM, NO BONDING KITS	PETROLEUM CONTAINMENT	TSM424248D-3C0	14	143	2" BRASS FULL PORT BALL VALVE	JOMAR	100-708	6	347	7HB SERIES BLACK DIESEL/B20 PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 1-INCH NPT INLET, 1-PIECE HAND INSULATOR, ALUMINUM SPOUT WITH SPOUT RING, AND 3-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	7HB-0400-B20	7
12	48-INCH SQUARE TANK SUMP, 60-INCH TALL, 30-INCH BASE, TWIST-LOCK LID, SOLID BOTTOM, NO BONDING KITS	PETROLEUM CONTAINMENT	TSM484860D-3B0	4	144	2" STAINLESS STEEL FULL PORT BALL VALVE (E-85 & DEF)	JOMAR	100-968	29	348	11BP SERIES YELLOW E85 ETHANOL UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILLGUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK UL 2586 LISTED	OPW	11BP-8992-E85	16
13	EPOXY BONDING KITS, LARGE - 2 PER TANK SUMP & 1 PER TRANS SUMP	PETROLEUM CONTAINMENT	E154TS	32	145	3" BRASS FULL PORT BALL VALVE	JOMAR	100-110	1	PIPING - CONTRACTOR SUPPLIED				
14	60-INCH SQUARE TANK SUMP, 60-INCH TALL, 30-INCH BASE, TWIST-LOCK LID, SOLID BOTTOM, NO BONDING KITS	PETROLEUM CONTAINMENT	TSM606060D-3B0	---	146	1-1/2" BRASS FULL PORT BALL VALVE	JOMAR	100-707	---	ITEM	DESCRIPTION	MAKE	MODEL	QTY.
31	2 HP AG VARIABLE SPEED, 90 INCH - 151 INCHES, INTELLIGENT SUBMERSIBLE TURBINE PUMP WITH MAGSHELL INTAKE FILTER SCREEN, MODEL R CHECK VALVE & 26-INCH RISER (ISTKMRVS2-VL2-26) - (PREMIUM, RETAIL DIESEL, E0, E85, B100)	FRANKLIN FUELING	402831926	4	147	2" BRASS FULL PORT BALL VALVE, STAINLESS STEEL BALL AND STEM	JOMAR	100-108SSG	---	401	2" FIBERGLASS PIPE - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
32	4 HP AG VARIABLE SPEED 95 INCH - 156 INCH INTELLIGENT SUBMERSIBLE TURBINE PUMP WITH MAGSHELL INTAKE FILTER SCREEN, MODEL R CHECK VALVE, & 26-INCH RISER (ISTKMRVS4-VL2-26) - (REGULAR & TRUCK DIESEL)	FRANKLIN FUELING	402850926	4	148	3-INCH FULL PORT STAINLESS STEEL BALL VALVE, 3-PIECE, 4-BOLT SWING OUT BODY -	JOMAR	500-310	1	402	2" FIBERGLASS PIPE COUPLING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
33	65 PSI CHECK VALVE (FOR SLAVE WHEN 2 STPS ARE USED)	FRANKLIN FUELING	402459931	---	149	4-INCH NPT FULL PORT STAINLESS STEEL BALL VALVE, 3-PIECE, 4-BOLT SWINGS OUT BODY, 1000 WOG - DEF REMOTE FILL	JOMAR	500-311	1	403	2" FIBERGLASS PIPE 90 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
34	MAG - VARIABLE FREQUENCY CONTROLLER	FRANKLIN FUELING	5874202800	8	161	15-GALLON STAINLESS STEEL DEF REMOTE FILL ADJSUTABLE LEGS, 4-INCH OPENING IN BACK, STAINLESS STEEL BALL VALVE AND DRAIN	MORRISON BROTHERS	515SDST0400	1	404	2" FIBERGLASS PIPE 45 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
37	COMPLETE SIPHON UNIT - INCLUDE ONE PER ACTIVE SIPHON	FRANKLIN FUELING	401165930	1	162	4" STAINLESS STEEL FILL ADAPTER - DEF REMOTE FILL	PT COUPLING	1400140	1	405	2" FIBERGLASS PIPE TEE - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
41	80 1/2 SINGLE PHASE, V12, 102-INCH, VARIABLE LENGTH DEF SUBMERSIBLE TURBINE PUMP KIT	FRANKLIN FUELING	403470901	1	163	4" STAINLESS STEEL CAM & GROOVE DUST CAP - DEF REMOTE FILL	PT COUPLING	1401140	1	406	2" FIBERGLASS PIPE BELL X 2" NPT MALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
42	SINGLE PHASE CONTROL BOX SUBMERSIBLE TURBINE PUMP - CBS - DEF STP	FRANKLIN FUELING	400818921	1	170	2" IN-LINE CHECK VALVE WITH 5 PSI CRACKING PRESSURE, STAINLESS STEEL WITH PTFE GASKET AND PLUNGER, 2" FNPT X 2" FNPT - DEF STP SUMP	FLOMATIC	YV002110107-5	---	407	2" X 1" FIBERGLASS THREADED REDUCER BUSHING	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
55	EDGE 1 SINGLE-WALL SPILL BUCKET, 5-GALLON, NO DRAIN - VAPOR RECOVERY	OPW	1C-3101P-Q	2	171	PRESSURE GAUGE, STAINLESS STEEL 0-60 PSI - DEF STP SUMP	GAV	4CFJ8	1	408	2" FIBERGLASS CAP - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
56	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - B-100	OPW	1C-31512D-BU	1	172	VISI-FLOW SIGHT FLOW INDICATOR - DIESEL SIPHON LINE	OPW	1421D-0202	1	409	2" FIBERGLASS SPIGOT X 2" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
57	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - PUL	OPW	1C-31512D-R	1	DISPENSERS - OWNER SUPPLIED					410	2" X 1-1/2" FIBERGLASS THREADED REDUCER BUSHING	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
58	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - RUL	OPW	1C-31512D-W	1	ITEM	DESCRIPTION	MAKE	MODEL	QTY.	411	3" FIBERGLASS PIPE	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
59	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - DSL	OPW	1C-31512D-Y	1	201	FUEL DISPENSER, BLENDER, 3+0	GILBARCO	ENCORE NN1	---	412	3" FIBERGLASS PIPE COUPLING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
60	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - E-85	OPW	1C-31512D-BZ	1	202	FUEL DISPENSER, BLENDER, WITH DIESEL, 3+D	GILBARCO	ENCORE NL1	---	413	3" FIBERGLASS PIPE 90 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
61	4" FILL ADAPTER CAP, E-85 RATED	OPW	634TT-7085-EVR	5	203	FUEL DISPENSER, BLENDER, WITH E-85 CONVERSION, 3+E-85	GILBARCO	ENCORE NL1	---	414	3" FIBERGLASS PIPE 45 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
62	4" TOP SEAL PIPE SWIVEL ADAPTER (E-85 COMPATIBLE)	OPW	61SALP-1020-EVR	5	204	FUEL DISPENSER, DUAL BLENDER, WITH E-15 AND DIESEL - WITH EMV	GILBARCO	ENCORE NF4	---	415	3" FIBERGLASS PIPE TEE - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
63	3-INCH VAPOR RECOVERY CAP, EVR, ORANGE (E-85 APPROVED)	OPW	1711T-7085-EVR	2	205	FUEL DISPENSER, DOUBLE DUAL BLENDER, WITH E-15 AND E-85 - WITH EMV	GILBARCO	ENCORE NF1	8	416	3" FIBERGLASS PIPE BELL X 3" NPT MALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
64	4-INCH NICKEL PLATED E85, EVR APPROVED VAPOR RECOVERY SWIVEL ADAPTER	OPW	61VSA-MA	2	206	FUEL DISPENSER, SINGLE BLENDER, WITH E-0 AND DIESEL - WITH EMV	GILBARCO	ENCORE NL1	---	417	3" X 2" FIBERGLASS BONDED REDUCER BUSHING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
65	4" DURATUFF THREADED CAP	OPW	116-7085	---	207	FUEL DISPENSER, DOUBLE DUAL BLENDER, WITH E-15, E-85, AND DIESEL - WITH EMV	GILBARCO	ENCORE NF1	8	418	3" FIBERGLASS PIPE BELL X 3" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
66	TANK PROBE ADAPTER AND CAP - NICKEL PLATED (BLANK RISER ON ALL TANKS)	OPW	62M-MA	6	209	FUEL DISPENSER, HI FLOW, SINGLE SIDED MASTER	GILBARCO	ENCORE	---	419	3" X 2" FIBERGLASS REDUCER, PLAIN	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
71	4-INCH X 3-INCH X 4-INCH EXTRACTOR TEE, NO CAGE (E85 APPROVED)	OPW	233-430	2	210	FUEL DISPENSER, HI FLOW, SINGLE SIDED MASTER WITH DEF	GILBARCO	ENCORE NPA	1	420	4" FIBERGLASS PIPE	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
72	4-INCH X 3-INCH X 3-INCH X 4-INCH EXTRACTOR CROSS, NO CAGE (E85 APPROVED)	OPW	233-4433	3	211	FUEL DISPENSER, HI FLOW, DUAL SIDED MASTER	GILBARCO	ENCORE	---	421	4" FIBERGLASS PIPE SPIGOT x 4" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
81	2-INCH CARB, EVR, CERTIFIED PRESSURE VACUUM VENT, 3"WC PRESSURE, 8" WC VACUUM, THREAD ON	OPW	723V-2203	3	212	FUEL DISPENSER, HI FLOW, DUAL SIDED MASTER WITH DEF	GILBARCO	ENCORE	---	422	4" SPIGOT X 3" BELL REDUCER BUSHING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
82	TANK VENT CAP, 2" DIAMETER, SLIP-ON (DIESEL)	OPW	23-0033	2	213	FUEL DISPENSER, HI FLOW, MASTER / SATELLITE	GILBARCO	ENCORE	---	423	4" FIBERGLASS PIPE 90 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
83	2-INCH TEFLON COATED ALUMINUM UPDRAFT VENT WITH STAINLESS STEEL, 40 MESH SCREEN, (DEF COMPATIBLE)	MORRISON BROTHERS	354T-0200AV	1	214	FUEL DISPENSER, HI FLOW, MASTER / SATELLITE WITH DEF	GILBARCO	ENCORE NPB	3	424	4" FIBERGLASS PIPE BELL X 4" NPT MALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
91**	VAPOR-TIGHT DROP TUBE WITH OVERFILL PREVENTION VALVE, 10' TANK WITH 10' BURY	OPW	71SO-410C	3	215	FUEL DISPENSER, HI FLOW, SINGLE SIDED SATELLITE	GILBARCO	ENCORE NP5	---	425	4" FIBERGLASS PIPE BELL X 4" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
92**	VAPOR-TIGHT DROP TUBE WITH OVERFILL PREVENTION VALVE, 10' TANK WITH 10' BURY, STAINLESS STEEL (E-85 COMPATIBLE)	OPW	71SOM-412C	2	216	FUEL DISPENSER, HI-FLOW, MASTER/MASTER WITH DOUBLE-SIDE DEF (MUST ORDER THE DEF ADDER KIT NPK-02)	GILBARCO	ENCORE NPA & NPK-02 KIT	---	426	4" X 3" REDUCER BUSHING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
93	4" THREADED RISER ADAPTER	OPW	ESA-400-S	7	220	FIBERGLASS DISPENSER SUMP FOR ENCORE, CONDUITLESS (DOUBLE END) - FIBERGLASS BOX ONLY	PETROLEUM CONTAINMENT	DCLB174374	8	431	2" FIBERGLASS PIPE COUPLING - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
94	JACK SCREW KIT FOR CAST IRON BASE	OPW	61JSK-4RMT	2	221	FIBERGLASS DISPENSER SUMP FOR ENCORE, CONDUITLESS (DOUBLE END) - FRAME ONLY (INCLUDES HARDWARE)	PETROLEUM CONTAINMENT	DCLF174374	8	432	2" FIBERGLASS PIPE 90-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
95	MIXED ALCOHOL JACK SCREW KIT, CARB/EVR APPROVED FOR E-85	OPW	71JSK-4RMT	3	226	FIBERGLASS DISPENSER SUMP FOR ENCORE WITH DEF, CONDUITLESS	PETROLEUM CONTAINMENT	DEF174360	4	433	2" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
101	REGULAR UNLEADED PRODUCT MARKER - 20,000 GALLONS	CLEAN FUELS	WR25H	1	227	FIBERGLASS DISPENSER SUMP FOR ENCORE WITH DEF ON EACH END OF SUMP, CONDUITLESS	PETROLEUM CONTAINMENT	RSC-174360-DEF	---	434	2" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
102	PREMIUM UNLEADED PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	RR25H	1	231	SHEAR VALVE ASSEMBLY KIT - BRACKET (ALL OTHER DISPENSER SUMPS)	PETROLEUM CONTAINMENT	SVU-L	42	437	3" FIBERGLASS PIPE COUPLING - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
103	DIESEL A PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	YRB25H	---	232	SHEAR VALVE ASSEMBLY KIT - BRACKET - (MASTER/MASTER WITH DEF SUMP ITEM #227)	PETROLEUM CONTAINMENT	SVU-C	---	438	3" FIBERGLASS PIPE 90-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
104	DIESEL B PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	YRB25H	---	233	STABILIZER BAR FOR DEF	PETROLEUM CONTAINMENT	SVA800-DEF	4	439	3" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
105	E-85 PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	GRY17F	1	234	SHEAR PLATE WITH MOUNTING HARDWARE	PETROLEUM CONTAINMENT	HDW-SP100-K	8	440	3" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
106	ETHANOL FREE - E-0 - 12,000 GALLONS	CLEAN FUELS	WRNE25H	---	241	1-1/2" PRODUCT SHEAR VALVE, DOUBLE POPPETED, FEMALE TOP	OPW	10P-0152	24	441	4" FIBERGLASS PIPE COUPLING - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
107	DIESEL PRODUCT MARKER - 24,000 GALLONS	CLEAN FUELS	YRB25H	1	242	1-1/2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP, ALTERNATIVE FUELS (E-85 LISTED)	OPW	10P-0152E85	8	442	4" FIBERGLASS PIPE 90-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
108	B-100 PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	GRY25H	1	243	1-1/2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP (SATELLITE FEEDS)	FRANKLIN FUELING	662-501-902	6	443	4" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
109	DEF PRODUCT MARKER, BLUE WITH "DEF" - 12,000 GALLONS	CLEAN FUELS	BLU17F	1	244	2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP	OPW	10P-0202	4	444	4" FIBERGLASS PIPE 90-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
110	VAPOR RECOVERY - ORANGE	CLEAN FUELS	OR17H-00000	2	245	1-1/2-INCH NPT INLET DEF SHEAR VALVE, 1-INCH OUTLET	FRANKLIN FUELING	663100001	12	445	4" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
111	DEF FILL SIGNAGE - 12,000 GALLONS 8" X 8" METAL SIGN, BLUE TEXT / WHITE BACKGROUND (ON REMOTE FILL BOX)	PERFORMANCE INK	PI-PIM-DEF12KB	1	300	9' LONG, 3/4" HOSE, MALE X MALE (RETAIL DIESEL) - RATED FOR UP TO B20	CONTINENTAL / GOODYEAR	53234712400969	16	446	4" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
121	OBSERVATION WELL, 4" DIAMETER, SCHEDULE 40 PVC, 0.02" FACTORY SLOTS OR AS REQUIRED BY LOCAL REGULATIONS WITH CAPPED BOTTOM, LENGTH AS REQUIRED	OPW	61SPVC-XXXX	4	301	8" LONG, 5/8" WHIP HOSE, MALE X MALE (GASOLINE)	CONTINENTAL / GOODYEAR	53232712020869	16	447	4" FIBERGLASS PIPE 90-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
122	MH MONITOR WELL 4" LOCKING CAP & COLLAR + PADLOCK	EMCO WHEATON	A0720-001	4	302	8" LONG 3/4" WHIP HOSE, MALE X MALE, UL LISTED FOR E-85 (E-85 & E15)	CONTINENTAL / GOODYEAR	53233712420869	32	448	4" FIBERGLASS PIPE COUPLING - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
					303	8" LONG, 3/4" LOW PERMEATION WHIP HOSE, MALE X MALE (OHIO GASOLINE)	CONTINENTAL / GOODYEAR	20754759	---	449	3" X 2" RUBBER REDUCING TEST BOOT WITH STEM	OPW	TBA-3020	AS REQD
					304	8" LONG, 3/4" WHIP HOSE, MALE X MALE (RETAIL DIESEL) -RATED FOR UP TO B20	CONTINENTAL / GOODYEAR	53234712420869	16	451	4" LCX COAXIAL FIBERGLASS PIPE	AMERON	DUALOY 3000LCX	AS REQD
					311	9' LONG, 5/8" HOSE, MALE X MALE (GASOLINE)	CONTINENTAL / GOODYEAR	532327720000972	16	452	4" LCX CLAMSHELL TERMINATION ADAPTER	AMERON	DUALOY 3000LCX	AS REQD
					312	9' LONG, 3/4" HOSE, MALE X MALE, UL-LISTED FOR E-85 (E-85 & E15)	CONTINENTAL / GOODYEAR	53233712400969	32	453	4" LCX FIBERGLASS PIPE 90 DEGREE ELBOW - CONTAINMENT	AMERON	DUALOY 3000LCX	AS REQD
					313	8" LONG, 3/4" LOW PERMEATION HOSE, MALE X MALE (OHIO GASOLINE)	CONTINENTAL / GOODYEAR	20754759	---	454	4" RUBBER CLOSURE WITH TEST PORT	AMERON	DUALOY 3000LCX	AS REQD
					314	9' LONG, 1" HOSE, MALE X MALE (HI FLOW & FAST FLOW DIESEL) - RATED FOR UP TO B20	CONTINENTAL / GOODYEAR	53234713200969	7	455***	RTIA RISER PIPE 4" PXP - 5 FOOT LENGTH	NOV-FIBERGLASS SYSTEMS	012040-060-0	4
					315	9' LONG, 1" HOSE, MALE X MALE (HI FLOW & FAST FLOW DIESEL)	CONTINENTAL / GOODYEAR	53232713200969	---	456****	RTIA RISER PIPE 4" PXP - 20 FOOT LENGTH	NOV-FIBERGLASS SYSTEMS	012040-240-0	---
					316	8" LONG, 1" WHIP HOSE, MALE X MALE (HI-FLOW & FAST FLOW DIESEL)	CONTINENTAL / GOODYEAR	53232						

PIPING - OWNER SUPPLIED					MISC - OWNER SUPPLIED					PIPING - CONTRACTOR SUPPLIED				
ITEM	DESCRIPTION	MAKE	MODEL	QTY.	ITEM	DESCRIPTION	MAKE	MODEL	QTY.	ITEM	DESCRIPTION	MAKE	MODEL	QTY.
460	1-1/2-INCH X 15-INCH DEF FLEX CONNECTOR	FRANKLIN FUELING	DEF15X15MM	12	652	10-INCH SQUEEGEE HEAD - METAL ZINC PLATED (PACK OF 12) - TRUCK SIDE ONLY	MALLORY USA	12-810NYU	1	801	3/4" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
461	1-1/2-INCH DIAMETER FIREFLEX CONNECTOR WITH 1-1/2-INCH MALE X 1-1/2-INCH MALE SWIVEL- 12-INCH LENGTH	FRANKLIN FUELING	FF15X12HMXMS	---	653	RACETRAC POLE-MOUNTED BLACK SINGLE BUCKET WINDSHIELD SERVICE CENTER WITH TRAPEZOID SELF-SERVE/FULL SERVICE PANEL, REMOVEABLE WATER BUCKET, SQUEEGEE, AND MOUNTING HARDWARE	DCI	750101	8	802	3/4" SCHEDULE 40 GALVANIZED NPT PLUG	---	---	AS REQD
462	1-1/2 - INCH DIAMETER FIREFLEX CONNECTOR WITH 1-1/2-INCH MALE X 1-1/2-INCH MALE SWIVEL, 15-INCH LENGTH	FRANKLIN FUELING	FF15X15HMXMS	38	654	3-FOOT X 5-FOOT- 9-INCH TALL STEEL ISLAND FORM WITH 6-INCH RADIUS ENDS - RACETRAC SPEC	RIVERSIDE	I36050906R	---	811	1" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
474	2-INCH X 18-INCH STAINLESS STEEL FIREFLEX FLEX CONNECTOR, HEX MALE X EZ-FIT HEX FEMALE - DEF LINE	FRANKLIN FUELING	DEF-FF20X18HMXEF	3	655	3-FOOT X 20-FOOT X 13-INCH TALL ISLAND FORM WITH 6-INCH RADIUS ENDS - RACETRAC SPEC	RIVERSIDE	I36201318R	4	820	1" SCHEDULE 40 GALVANIZED PLUG	---	---	AS REQD
475	2-INCH X 18-INCH STAINLESS STEEL FIREFLEX FLEX CONNECTOR, STAINLESS STEEL HEX MALE X STAINLESS STEEL EZ-FIT HEX FEMALE	FRANKLIN FUELING	FF20X18HMSXEFSS	8	656	CHAMPION 7.5-HP ADVANTAGE SERIES AIR COMPRESSOR - 1 PER SITE	RELIABLE HYDRAULICS	CHAMPION	1	832	1-1/2" SCHEDULE 40 GALVANIZED COUPLER	---	---	AS REQD
476	2-INCH X 18-INCH STAINLESS STEEL FIREFLEX FLEX CONNECTOR, HEX MALE X EZ-FIT HEX FEMALE	FRANKLIN FUELING	FF20X18HMXEF	---	657	GRACO 65-FOOT X 3/8-INCH SD SERIES AIR REEL - 1 PER DISP	RELIABLE HYDRAULICS	GRACO	4	834	1-1/2" SCHEDULE 40 GALVANIZED 90 DEGREE ELBOW	---	---	AS REQD
477	2-INCH DIAMETER FIREFLEX CONNECTOR WITH 2-INCH HEX MALE X 2-INCH MALE SWIVEL, 15-INCH LENGTH	FRANKLIN FUELING	FF20X15HMXMS	4	658	GRACO 1/2-INCH X 2-INCH REEL HOOK UP HOSE AND FITTING KIT - 1 PER DISP	RELIABLE HYDRAULICS	GRACO	4	836	1-1/2" SCHEDULE 40 GALVANIZED 45 DEGREE ELBOW	---	---	AS REQD
480	2-INCH X 12-INCH FIREFLEX FLEX CONNECTOR, MALE SWIVEL X EZ-FIT MALE	FRANKLIN FUELING	FF20X12MSXEZ	8	659	MILTON INFLATOR GAUGE - 1 PER DISP	RELIABLE HYDRAULICS	MILTON	4	839	1-1/2" SCHEDULE 40 GALVANIZED PIPE UNION, 250 LB	---	---	AS REQD
482	2-INCH X 12-INCH FIREFLEX FLEX CONNECTOR, FEMALE SWIVEL NPT X EZ-FIT MALE	FRANKLIN FUELING	FF20X12F348XEXM	3	660	112-INCH SHUT OFF VALVE - 1 PER DISP	RELIABLE HYDRAULICS		4	840	1-1/2" SCHEDULE 40 GALVANIZED PLUG	---	---	AS REQD
491	2" SANITARY FLANGE BLANK	FRANKLIN FUELING	EZBLANK	1	661	BASE FLOW CONTROLLER - 1 PER SITE	JUNGE	JUN FCBIOBLEND XL	1	841	1-1/2" X 1" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
492	2" SANITARY FLANGE CLAMP	FRANKLIN FUELING	EZCLAMP	29	662	PASSIVE CONTROLLER - 1 PER SITE	JUNGE	JUN BIOBLENDEREXP-1	1	847	1-1/2" OFFSET ADAPTOR WITH 3-1/2" OFFSET	MORRISON BROTHERS	635-0350 MAE	AS REQD
493	2" SANITARY FLANGE GASKET	FRANKLIN FUELING	407493002	29	663	DESKTOP PRINTER ASSEMBLY - 1 PER SITE	JUNGE	JUN PRINTER	1	851	2" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
495	2" SANITARY FLANGE TEE	FRANKLIN FUELING	EZ20XEZ20TEEFF	5	664	LEVEL VIBRATION (FLOW INDICATOR) - 1 PER REMOTE FILL	JUNGE	JUN LEVELVIBC1D	1	852	2" SCHEDULE 40 GALVANIZED COUPLER	---	---	AS REQD
496	2" SANITARY BY SANITARY FITTING - (TRANS SUMP)	FRANKLIN FUELING	EZFITXEZFIT	2	665	LC BIOMETER, 2-INCH WITH 2 CHANNEL PULSAR - 1 PER REMOTE FILL	JUNGE	LC M7B1POD	1	853	2" X 1-1/2" SCHEDULE 40 GALVANIZED REDUCING COUPLING	---	---	AS REQD
497	2" SANITARY FLANGE X FLANGE 90-DEGREE EZ FIT	FRANKLIN FUELING	EZXEZ90	9	666	LC METER SUPPORTS IN SUMP - 1 PER LC METER	JUNGE	LC METER STAND	1	854	2" SCHEDULE 40 GALVANIZED 90 DEGREE ELBOW	---	---	AS REQD
498	2" SANITARY FLANGE X 2" HEX MALE NPT	FRANKLIN FUELING	EZX20HMPL	18	667	TURBINE METER SUPPORTS IN SUMP - 1 PER TURBINE METER	JUNGE	LC SPONSLER STAND	1	855	2" X 1-1/2" SCHEDULE 40 GALVANIZED 90 DEGREE REDUCING ELBOW	---	---	AS REQD
499	2" SANITARY FLANGE X 2" HEX FEMALE NPT - STAINLESS STEEL	FRANKLIN FUELING	EZX20HFSS	2	668	DIAPHRAGM VALVE, 2-INCH, 12-VOLT - 1 PER LC METER	JUNGE	LC A284711	1	856	2" SCHEDULE 40 GALVANIZED 45 DEGREE ELBOW	---	---	AS REQD
500	2" SANITARY FLANGE X 2" HEX FEMALE NPT	FRANKLIN FUELING	EZX20HFPL	---	669	TURBINE METER, 2-CHANNEL - 1 PER REMOTE FILL	JUNGE	TI HA0400-F150-MB	1	857	2" SCHEDULE 40 GALVANIZED TEE	---	---	AS REQD
PENETRATION FITTINGS - OWNER SUPPLIED					670	2-INCH HAND VALVE - 3 PER LC METER (TESTING)	JUNGE	MOR 691 2"	3	858	2" X 2" X 1-1/2" SCHEDULE 40 GALVANIZED REDUCING TEE	---	---	AS REQD
ITEM	DESCRIPTION	MAKE	MODEL	QTY.	671	4-INCH STANDARD BLACK TEE FITTING - 2 PER REMOTE FILL	JUNGE	PF 40TEE-BLK	2	859	2" SCHEDULE 40 GALVANIZED PIPE UNION, 250 LB	---	---	AS REQD
503	FRP SERIES - FIBERGLASS FITTING FOR 3/4" GALVANIZED CONDUIT FOR FLAT SUMPS-(1/4) EPOXY KIT REQ'D	PETROLEUM CONTAINMENT	PF-FRP-1F-C8	19	672	4-INCH COUPLING WITH 3/4-INCH COUPLER FOR FLOW INDICATOR - 1 PER REMOTE FILL	JUNGE	PF 40COUP-BLK-T	1	860	2" SCHEDULE 40 GALVANIZED PLUG	---	---	AS REQD
504	FRP SERIES - FIBERGLASS FITTING FOR 1" GALVANIZED CONDUIT FOR FLAT SUMPS-(1/4) EPOXY KIT REQ'D	PETROLEUM CONTAINMENT	PF-FRP-1F-C1	21	673	BOLTS AND GASKETS - 2 PER REMOTE FILL	JUNGE	FL KIT RF-4"	2	861	2" SCHEDULE 40 GALVANIZED PIPE CAP	---	---	AS REQD
514	TPT SERIES - FIBERGLASS RIGID ENTRY BOOT FOR 3" OVER 2" FRP--FLAT WALL-(1/2) EPOXY KITS REQ'D	PETROLEUM CONTAINMENT	PF-TPT-2F-32	100	674	FLANGE - 2 PER REMOTE FILL	JUNGE	FL RF 4 CS	2	862	2" X 3/4" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
515	TPT SERIES - FIBERGLASS RIGID ENTRY BOOT FOR 4" LCX--FLAT WALL- WITH BUSHING AND NIPPLE - (1) EPOXY KITS REQ'D	PETROLEUM CONTAINMENT	PF-TPT-2F-L4	---	675	4-INCH CLOSE PIPE NIPPLE - 1 PER REMOTE FILL	JUNGE	PN 40CL-BK	1	863	2" X 1" SCHEDULE 40 GALVANIZED SWAGE NIPPLE	---	---	AS REQD
531	FRP SERIES - 2" FIBERGLASS FLANGE FITTING FOR FLAT SUMPS-(1/3) EPOXY KIT REQ'D	PETROLEUM CONTAINMENT	PF-FRP-1F-R2	1	676	4-INCH X 20-INCH PIPE NIPPLE - 1 PER REMOTE FILL	JUNGE	PN 40X200-BLK	1	864	2" X 1" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
532	FRP SERIES - 3" FIBERGLASS FLANGE FITTING FOR FLAT SUMPS-(1/3) EPOXY KITS REQ'D	PETROLEUM CONTAINMENT	PF-FRP-1F-R3	8	677	PANEL SS ENCLOSURE - IF PLACING CONTROLLER OUTDOORS NEAR REMOTE FILLS	JUNGE	JUN LARGE BOX	---	871	3" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
533	FRP SERIES - 4" FIBERGLASS FLANGE FITTING FOR FLAT SUMPS-(1/3) EPOXY KITS REQ'D	PETROLEUM CONTAINMENT	PF-FRP-1F-R4	8	678	2-INCH ACTUATED GEAR VALVE, 120-VOLT - IF NORTH OF MAXON-DIXON LINE	JUNGE	VARIABLE	---	874	3" SCHEDULE 40 GALVANIZED 90 DEGREE ELBOW	---	---	AS REQD
534	ADHESIVE FOR INSTALLING PENETRATION FITTINGS (450ML CARTRIDGE)	PETROLEUM CONTAINMENT	EP2A-450	86	679	FILTER ELEMENT - USE IF BIO SOURCE IS QUESTIONABLE	JUNGE	CIM-TEK VIKING ELEMENT	---	876	3" SCHEDULE 40 GALVANIZED 45 DEGREE ELBOW	---	---	AS REQD
535	PENETRATION FITTING TEST KIT, (3-FEET LONG) - 1 KIT PER TPT FITTING (ITEMS 514 & 515)	PETROLEUM CONTAINMENT	HDW-TSK-T1	100	690	FUEL FILTER, 10 MICRON, HYDROSORB (GASOLINE)	CIM-TEK	70060	18	877	3" SCHEDULE 40 GALVANIZED TEE	---	---	AS REQD
ELECTRICAL - OWNER SUPPLIED					691	FUEL FILTER, 10 MICRON, HYDROSORB (DIESEL) 400MB-10	CIM-TEK	70120	10	878	3" X 3" X 2" SCHEDULE 40 GALVANIZED REDUCING TEE	---	---	AS REQD
ITEM	DESCRIPTION	MAKE	MODEL	QTY.	692	FUEL FILTER, 1 MICRON (E-85)	CIM-TEK	70039	10	879	3" SCHEDULE 40 GALVANIZED PIPE UNION, 250 LB	---	---	AS REQD
601	TLS-450 PLUS WITH INTEGRAL PRINTER AND DISPLAY, INCLUDES 3.0-GPH LINE TEST CAPABILITY, 3 ETHERNET PORTS, 2 USB PORTS, AND 1 HIGH VOLTAGE OUTPUT (MAXIMUM OF 4 MODULES PER CONSOLE)	VEEDER ROOT	8600910-302	1	693	FUEL FILTER, 30 MICRON, CELLULOSE (HIGH FLOW DIESEL) -800-30	CIM-TEK	70020	6	880	3" SCHEDULE 40 GALVANIZED NPT PLUG	---	---	AS REQD
602	TLS-450 PLUS APPLICATION SOFTWARE	VEEDER ROOT	333845-001	1	701	FIBERGLASS KIT	---	---	---	881	3" X 2" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
603	UNIVERSAL SENSOR/PROBE INTERFACE MODULE (SUMP SENSORS, INTERSTITIAL SENSORS, PROBES AND PLLDS) (MAXIMUM OF 4 MODULES PER CONSOLE)	VEEDER ROOT	332812-001	3	702	18" HDPE PIPE	---	---	AS REQD	882	3" X 3/4" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
604	UNIVERSAL INPUT/OUTPUT INTERFACE MODULE (SUBMERSIBLES AND OVERFILL ALARM) (MAXIMUM OF 4 MODULES PER CONSOLE)	VEEDER ROOT	332813-001	2	703	4" SCHEDULE 40 PVC PIPE RISER WITH ALL NECESSARY FITTINGS, LENGTH AS REQUIRED	---	---	AS REQD	891	4" SCHEDULE 80 GALVANIZED PIPE	---	---	AS REQD
606	RISK MANAGEMENT SOFTWARE FOR .2-GPH LINE TEST ON-DEMAND, MONTHLY OR REPETITIVE AND .1-GPH LINE TEST ON-DEMAND OR AUTO	VEEDER ROOT	332972-008	1	704	FILTER FABRIC	FIBERWEB	TYPAR 3401	AS REQD	892	4" X 4" X 4" SCHEDULE 40 GALVANIZED TEE	---	---	AS REQD
607	TLS-XB EXPANSION BOX (USE WHEN MORE THAN 4 MODULES ARE NEEDED FOR THE TLS-450 PLUS) (MAXIMUM OF 4 MODULES PER EXPANSION BOX)	VEEDER ROOT	860390-100	1	740	6" ROUND PIPE BOLLARD, 7' LONG - SCHEDULE 40	COBB INDUSTRIAL		AS REQD	893	4" X 3" X 3" SCHEDULE 40 GALVANIZED DOUBLE TAP BUSHING	---	---	AS REQD
608	TLS-XB INSTALL KIT W/ 6 FT. CABLE (USE ONLY WHEN THE TLS-XB EXPANSION BOX IS NEEDED)	VEEDER ROOT	330020-762	1	741	CANOPY COLUMN WARNING SIGNAGE	---	---	AS REQD	894	4" X 2" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
609	DEF RECIRCULATION SOFTWARE FEATURE FOR TLS-450 PLUS	VEEDER ROOT	332972-026	---	742	OVERFILL SIGNAGE	MAY ADVERTISING	M-58	1	895	4" X 2" X 2" GALVANIZED DOUBLE TAP BUSHING	---	---	AS REQD
610	DEF TEMPERATURE SENSOR INSTALLATION KIT	VEEDER ROOT	794380-210	---	743	EMERGENCY SHUT-OFF SIGN (EXTERIOR)	MAY ADVERTISING	M-53*A (OR EQUAL)	4	896	4" SCHEDULE 40 GALVANIZED UNION	---	---	AS REQD
620	MECHANICAL LINE LEAK DETECTOR FOR ALCOHOL-GAS - SINGLE PACK (E-85 APPROVED)	FRANKLIN FUELING	403169901	1	745	THREAD SEALANT (GAS, DIESEL & E-85)	GASOILA	GE16	AS REQD	897	4" SCHEDULE 40 GALVANIZED PIPE CAP	---	---	AS REQD
621	DPLLD SENSOR W/OUT SWITCHECK	VEEDER ROOT	858080-001	7	746	THREAD SEALANT (E-15 & E-85 DISPENSER HOSES & ALL DEF CONNECTIONS)	LOCTITE	567 THREAD SEALANT WITH ACTIVATOR SF 7649	AS REQD	911	1" SCHEDULE 40 STAINLESS STEEL (316) PIPE	---	---	AS REQD
626	OVERFILL ALARM	VEEDER ROOT	790091-001	1	ITEM	DESCRIPTION	MAKE	MODEL	QTY.	919	1" SCHEDULE 40 STAINLESS STEEL (316) UNION, 250 LB	---	---	AS REQD
627	OVERFILL ALARM ACKNOWLEDGEMENT SWITCH	VEEDER ROOT	790095-001	1	751	EXPLOSION PROOF JUNCTION BOX	CROUSE HINDS OR APPLETON	---	AS REQD	920	1" SCHEDULE 40 STAINLESS STEEL (316) PLUG	---	---	AS REQD
630	SOLID-STATE CONTAINMENT SUMP SENSOR, NON-DISCRIMINATING - (B-100)	VEEDER ROOT	794380-351	5	752	EXPLOSION PROOF CAP ELBOW	CROUSE HINDS OR APPLETON	---	AS REQD	931	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) PIPE	---	---	AS REQD
631	SUMP SENSOR MOUNTING KIT	VEEDER ROOT	330020-012	30	753	SEAL OFF	CROUSE HINDS OR APPLETON	---	AS REQD	934	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) 90-DEGREE ELBOW	---	---	AS REQD
632	POSITION SENSITIVE NON-DISCRIMINATING SUMP SENSOR (E-85 COMPATIBLE)	VEEDER ROOT	794380-323	14						937	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) TEE	---	---	AS REQD
633	DUAL POINT SENSOR WITH VENTED CAP	VEEDER ROOT	794380-303	3						939	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) UNION, 250 LB	---	---	AS REQD
634	NON-DISCRIMINATING PIPING SUMP SENSOR W/ 12-FOOT CABLE	VEEDER ROOT	794380-208	11						941	1-1/2" X 1" STAINLESS STEEL (316) HEX BUSHING	---	---	AS REQD
635	4-INCH EVR APPROVED TANK MONITOR CAP & ADAPTER KIT WITH 1/2-INCH CONNECTOR	MORRISON BROTHERS	305XPA-1100AKEVR	6						950	4" X 2" STAINLESS STEEL (316) HEX BUSHING	---	---	AS REQD
636	10-FOOT STAINLESS STEEL ALTERNATIVE FLUID MAG PLUS TANK PROBE WITH HGP CANISTER AND WATER DETECTION	VEEDER-ROOT	846397-309	4						951	2" SCHEDULE 40 STAINLESS STEEL (316) PIPE	---	---	AS REQD
637	10-FOOT STAINLESS STEEL ALTERNATIVE FLUID MAG PLUS TANK PROBE WITH HGP CANISTER AND WITHOUT WATER DETECTION	VEEDER-ROOT	846397-609	2						952	2" SCHEDULE 40 STAINLESS STEEL (316) COUPLER	---	---	AS REQD
638	MAG PLUS FLOAT KIT, 4", WITH PHASE SEPARATION DETECTION WITH 5' CABLE (GASOLINE)	VEEDER ROOT	886100-000	2						954	2" SCHEDULE 40 STAINLESS STEEL (316) 90 DEGREE ELBOW	---	---	AS REQD
639	MAG PLUS FLOAT KIT, 4" WITH 5' CABLE (DIESEL & B-100)	VEEDER ROOT	846400-001	2						957	2" SCHEDULE 40 STAINLESS STEEL (316) TEE	---	---	AS REQD
640	MAG PLUS FLOAT KIT, 4", WITHOUT WATER DETECTION WITH 5' CABLE (E-85 & DEF)	VEEDER ROOT	846400-004	2						958	2" SCHEDULE 40 STAINLESS STEEL (316) PIPE CAP	---	---	AS REQD
641	SINGLE POINT MINI-HYDROSTATIC SENSOR (B-100)	VEEDER ROOT	794380-304	1						959	2" SCHEDULE 40 STAINLESS STEEL (316) UNION	---	---	AS REQD
NOTE: CONTRACTOR TO VERIFY WITH LOCAL JURISDICTION THAT HOT-DIP GALVANIZED PIPING AND FITTINGS ARE APPROVED.														
REQUIRED INSTALLATION TOOLS														
ITEM	DESCRIPTION	MAKE	MODEL											
*	APPLICATOR GUN FOR 2-PART ADHESIVE (450ML CARTRIDGES)	PETROLEUM CONTAINMENT	EQP-EP450											
**	71SO - INSTALLATION TOOL KIT	OPW	71SO-TOOLCT											
	VACUUM TEST APPARATUS	EMCO	A-1004-210-TEST											
***	2102 BOX TOOL	NOV-FIBERGLASS SYSTEMS	005990-790-0											

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DIAMOND Z

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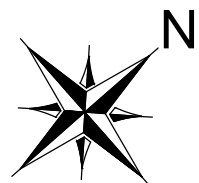
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M-2



NOTES:

1. COORDINATE WITH RACETRAC CIVIL DOCUMENTS.



A

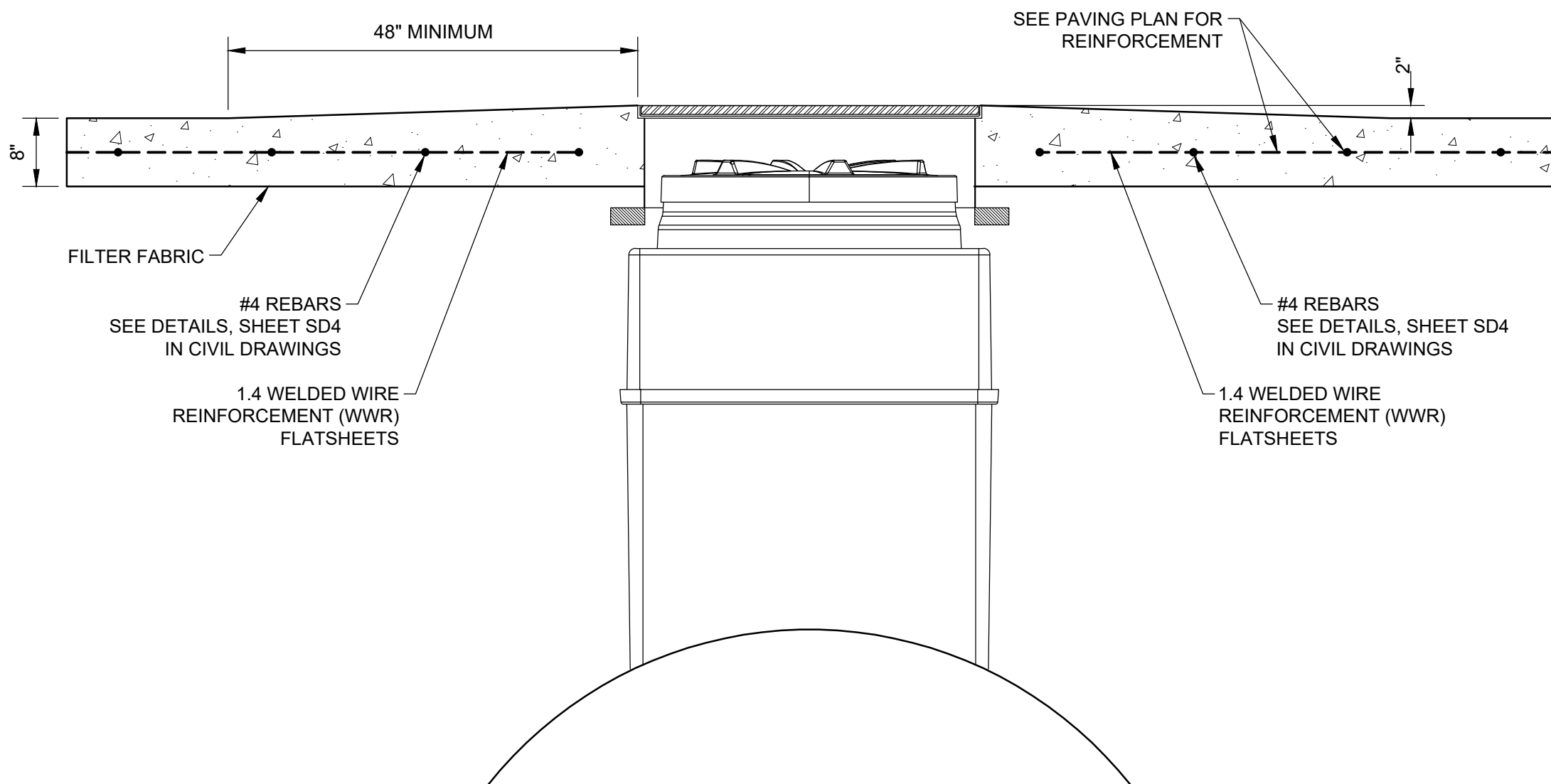
TANK PAD PLAN
SCALE: 1/4" = 1'-0"

DIRECTION OF
WATER SHED

B
T-1

C
T-1

SEE CIVIL DRAWINGS FOR
FULL SITE SPECIFIC
CONCRETE SPECIFICATIONS

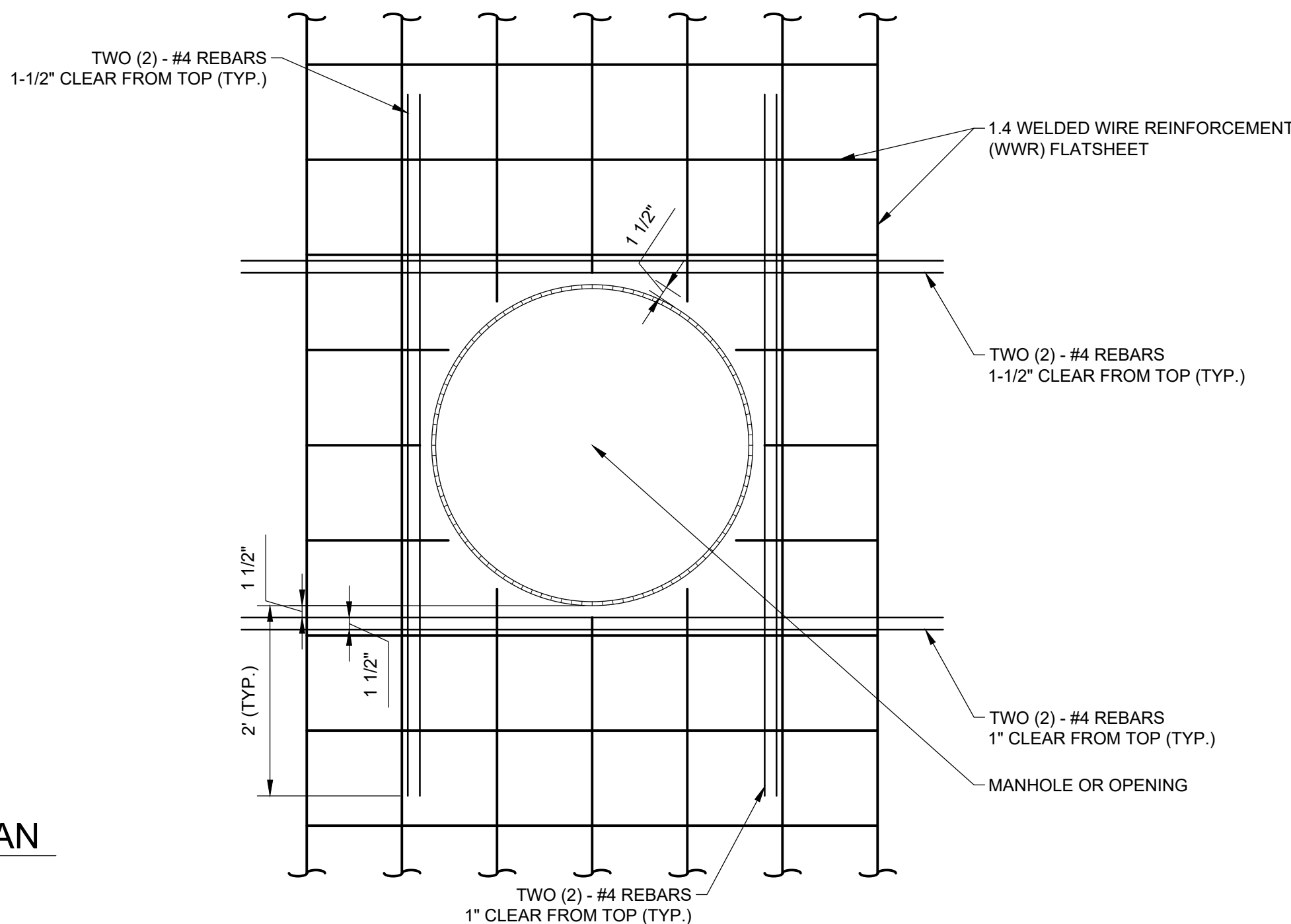


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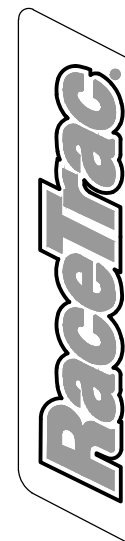
TANK PAD SLOPE - ELEVATION
SCALE: 3/4" = 1'-0"

C

TANK MANHOLE PLAN
SCALE: 3/4" = 1'-0"



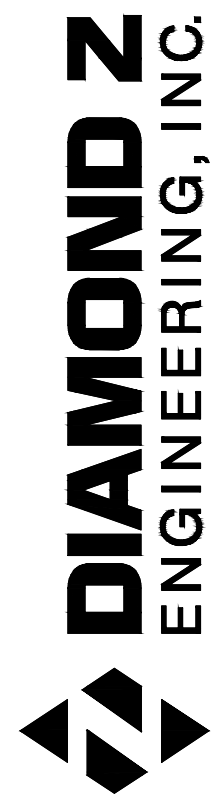
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TANK PAD DETAILS -
EDO SHARED TANK LAYOUT

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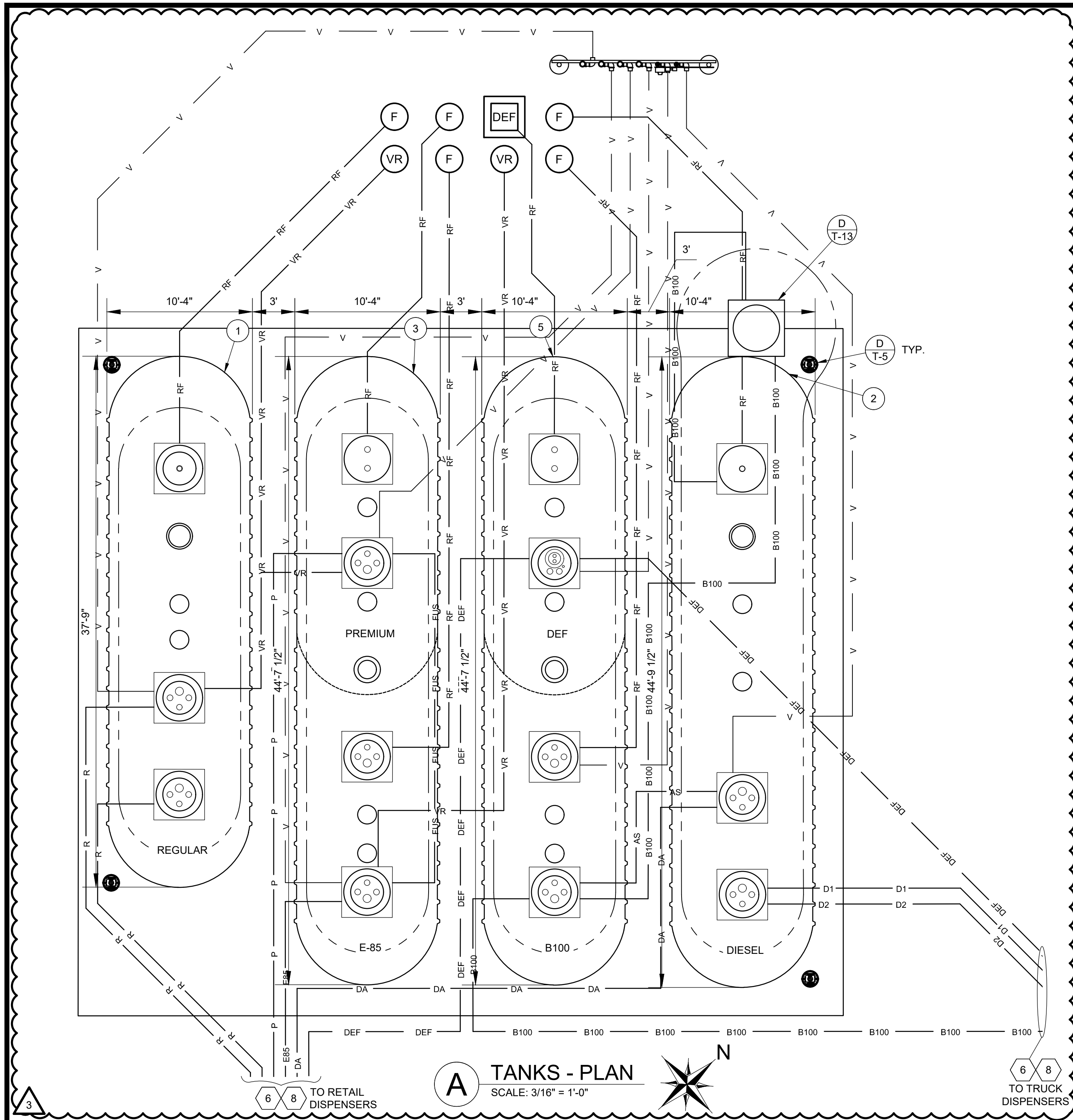
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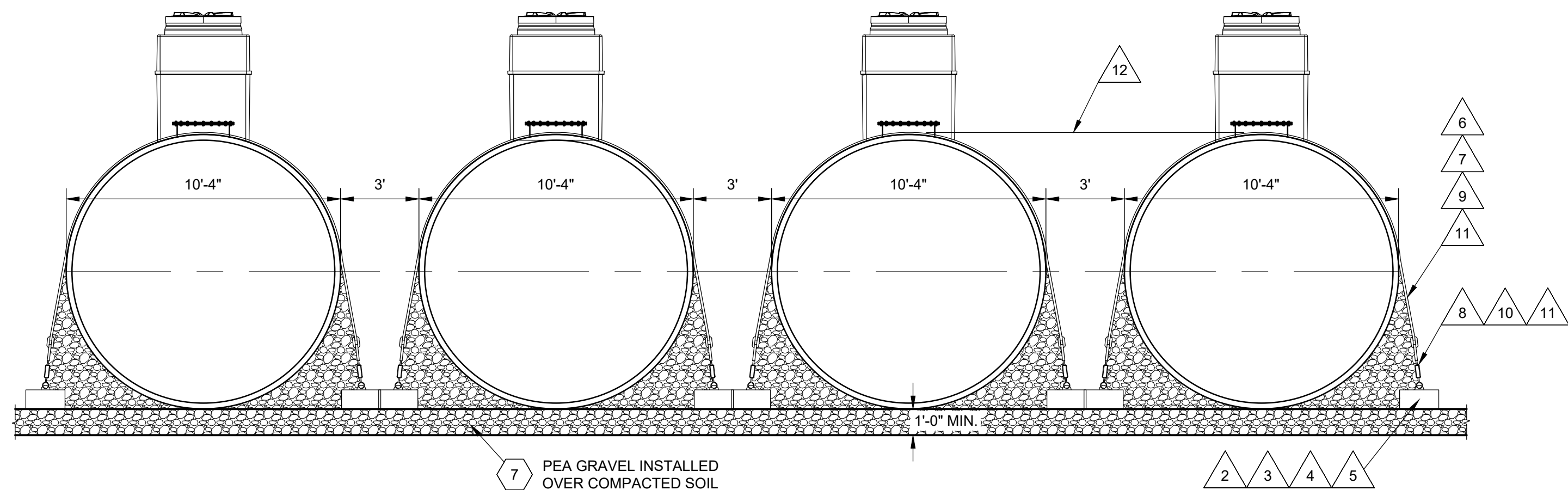
A TANKS - PLAN

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

NOTE:
WHEN TANKS HAVE BEEN INSTALLED WITH BACKFILL TO TOP OF TANK, AND PRIOR TO THE INSTALLATION OF BACKFILL TO GRADE, THEY SHALL BE COMPLETELY FILLED WITH WATER AS BALLAST. DO NOT FILL TANK UNTIL BACKFILL IS EVEN WITH TANK TOP. ALL WORK, FROM THE FIRST PLACEMENT OF TANK IN EXCAVATION UNTIL BALLASTING IS COMPLETE, SHALL BE DONE ON AN UNINTERRUPTED BASIS. COORDINATE ALL BALLASTING OPERATIONS WITH OWNERS REPRESENTATIVE.

NOTE:
DEFLECTION MEASUREMENTS SHALL BE ACCORDING TO MANUFACTURER'S REQUIREMENTS AND SHALL BE WITHIN MANUFACTURER'S TOLERANCES. ALL INFORMATION SHALL BE COMPLETED AS PER THE MANUFACTURER'S WARRANTY DOCUMENTATION.

NOTE:
ALTERNATE ANCHORING BY USE OF A CONCRETE ANCHORING PAD IS PERMITTED. CONSULT WITH OWNER'S REPRESENTATIVE AND SUCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION.

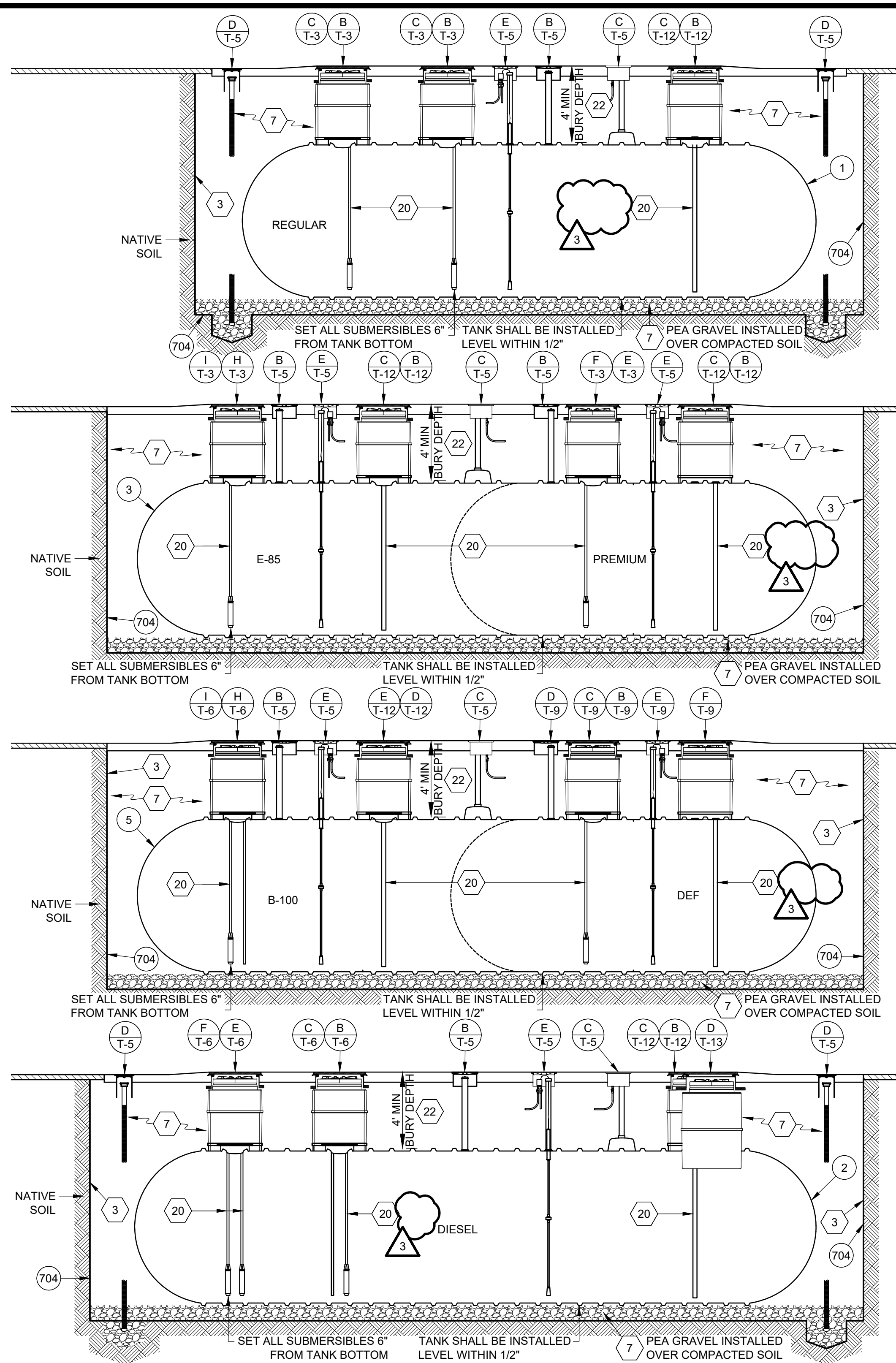


C TANK ANCHORING DETAILS

SCALE: 1/4" = 1'-0"

UST INSTALLATION NOTES:

1. SLOPE CONCRETE AWAY FROM ALL MANHOLES PER SHEET T-1.
2. REINFORCE CONCRETE SLAB AROUND MANHOLES. SEE CIVIL DRAWINGS FOR DETAILS.
3. USE SHORING FOR ALL TANK EXCAVATIONS IN ACCORDANCE WITH OSHA STANDARDS.
4. FUEL ELECTRICIAN TO PULL A SPARE SENSOR WIRE TO THE E-85 STP TANK SUMP FOR A FUTURE DPLD. THE WIRE WILL BE COILED IN THE J-BOX AND VEEDER-ROOT CONSOLE FOR FUTURE USE.
5. SLOPE TANK VENT, VAPOR RECOVERY, AND REMOTE FILL PIPING TO TANKS MINIMUM 1/8" PER 1'-0".
6. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" COMPACTED PEA GRAVEL BEDDING. PIPING SHALL NOT BE SUPPORTED BY BLOCKS, PLANKS, OR OTHER DEBRIS.
7. USE PEA GRAVEL CONSISTING OF NATURALLY ROUNDED AGGREGATE, MINIMUM 1/8" AND MAX OF 3/4" IN SIZE, FREE OF CLAY, SLAG, CINDERS, OR DEBRIS. ALL SUBSTITUTES MUST BE APPROVED BY MANUFACTURER'S AND OWNER'S FIELD REPRESENTATIVE.
8. SLOPE PRODUCT PIPING BACK TO TANKS MINIMUM 1/8" PER 1'-0".
9. NOT USED.
10. ALL ENTRIES TO BE PERPENDICULAR TO CONTAINMENT SUMP.
11. INSTALL (8) 4" X 8" BRICK PAVERS EQUALLY SPACED TO ASSURE 2" CLEARANCE BETWEEN CONCRETE AND CONTAINMENT SUMP. SEE CIVIL DRAWINGS FOR DETAILS.
12. MOUNT SEAL-OFFS AND JUNCTION BOXES IN TANK SUMP AS HIGH AS POSSIBLE IN SUMP. CONDUIT AND JUNCTION BOX TO BE OUTSIDE OF PERIMETER OF TANK ENTRY MANWAY. ALL SEAL OFFS TO BE THE FIRST FITTING INTO THE SUMP.
13. PROVIDE 18" LONG 2" DIAMETER FRP SLEEVE MOUNTED TO EITHER THE ATG OR STP RISER WITH UNISTRUT AND U-BOLTS. SLEEVE TO BE MOUNTED 2" OFF THE TOP OF THE TANK RIB ON THE PRODUCT LINE PENETRATION SIDE OF THE SUMP. SENSOR TO BE PLACED INSIDE OF FRP SLEEVE AND REST ON TANK RIB.
14. ORIENT PRODUCT PIPING ENTRY BOOTS WITH THE TEST PORTS AT 5 OR 7 O'CLOCK.
15. REAM ALL RISERS FOR FULL PIPE BORE.
16. COAT ALL BURIED STEEL WITH PITCHMASTIC OR SPRAY UNDERCOATING.
17. PRIME AND PAINT LIDS PER SHEET T-7.
18. SEE SITE SPECIFIC PLANS FOR ACTUAL TANK PLACEMENT AND ORIENTATION. FINAL SITE SPECIFIC TANK LAYOUTS SHALL BE APPROVED BY THE LOCAL MANAGER OR HIS AGENT.
19. REFER TO SITE SPECIFIC PLANS FOR ACTUAL PIPE RUNS.
20. INSTALL DROP TUBES AND SUBMERSIBLES 6" FROM BOTTOM OF TANK. DROP TUBE CLEARANCE IS MEASURED TO THE TOP OF THE DROP TUBE CUT OR OPENING.
21. OPEN THE DEF RETURN LINE BALL VALVE UNTIL THE RETURN LINE PRESSURE IS 1-2 PSI LOWER THAN THE CLOSED PRESSURE READING (WHERE APPLICABLE).
22. TANK BURIAL WILL BE 4-FEET MINIMUM TO 5-FEET MAXIMUM IN DEPTH.



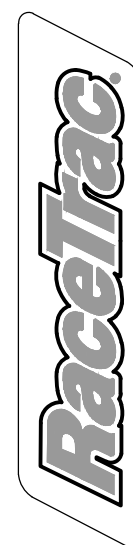
B TANKS - ELEVATION

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

NOTES:

1. WHEN WORKING BELOW GRADE, EXTREME CARE MUST BE TAKEN TO ASSURE WORKMAN SAFETY. SLOPING AND SHORING SHALL BE PROVIDED TO COMPLY WITH OSHA CONSTRUCTION INDUSTRY STANDARDS 29 CFR PART 1926 SUBPART P, OSHA STANDARDS-EXCAVATION OR WHERE OVERHEAD WORK IS PROGRESSING.
2. TANK ANCHORING IS ALWAYS REQUIRED.
3. INSTALL DEADMAN ANCHORS AS SPECIFIED AND SUPPLIED BY TANK MANUFACTURER.
4. TOTAL LENGTH OF DEADMAN IS MINIMUM 12" GREATER THAN OVERALL LENGTH OF TANK.
5. EACH TANK REQUIRES DEADMAN ON EACH SIDE.
6. INSTALL HOLD DOWN STRAPS AS SPECIFIED AND SUPPLIED BY TANK MANUFACTURER.
7. LOCATE STRAPS ON RIBS WHERE INDICATED ON TANK.
8. FASTEN DROP-FORGED TURNBUCKLE TO ANCHOR ON DEADMAN.
9. ATTACH ALL HOLD DOWN STRAPS TO DEADMAN USING TURNBUCKLES. UNIFORMLY TIGHTEN ALL STRAPS TO ACHIEVE EQUAL TENSION WITHOUT TANK DEFLECTION.
10. INSTALL TURNBUCKLES AS SPECIFIED AND SUPPLIED BY TANK MANUFACTURER.
11. COAT ALL EXPOSED STRAPS, TURNBUCKLES AND REINFORCING BARS WITH PITCHMASTIC.
12. INSTALL UST'S SO THAT TOP OF TANKS ARE AT SAME HEIGHT.

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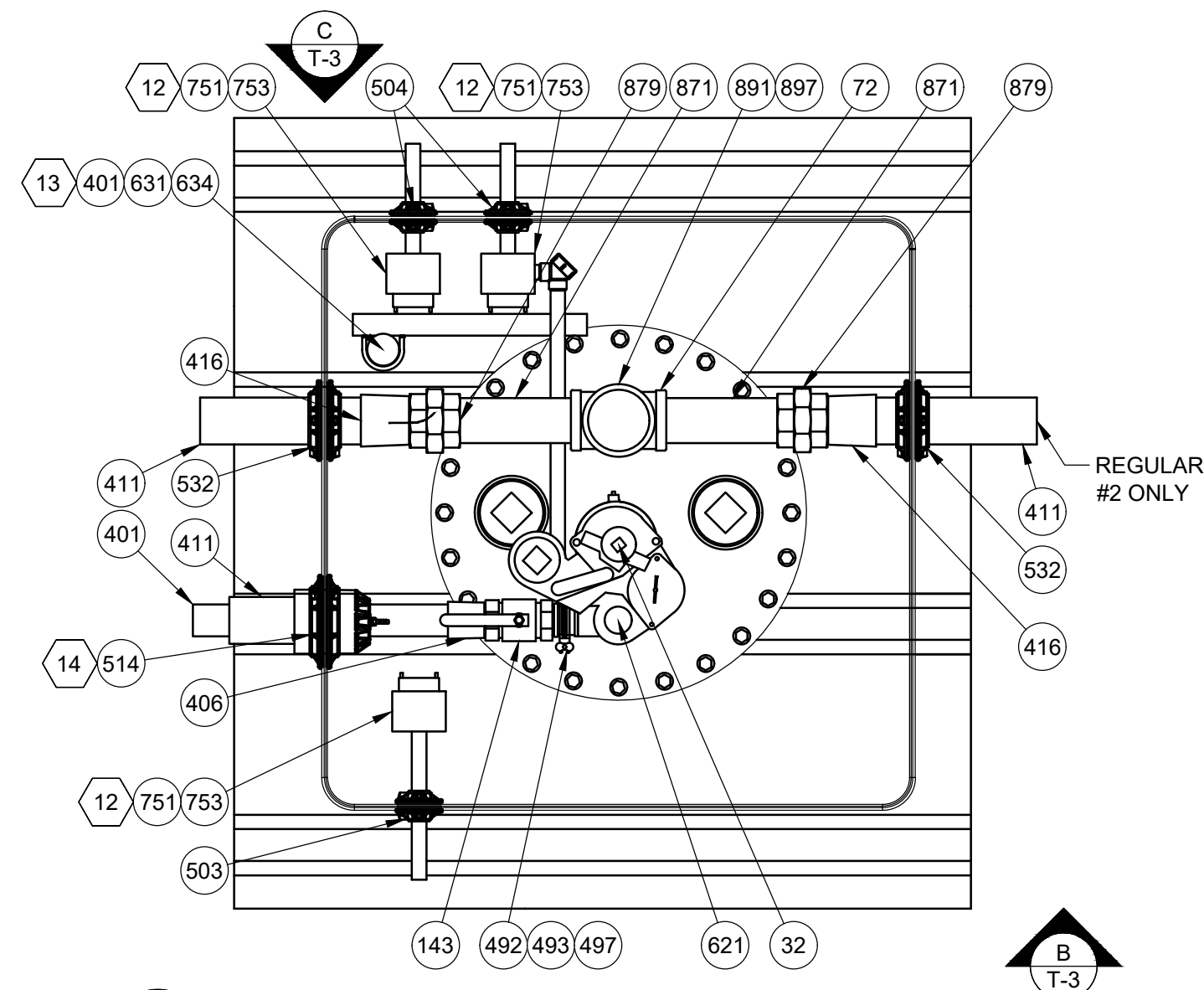
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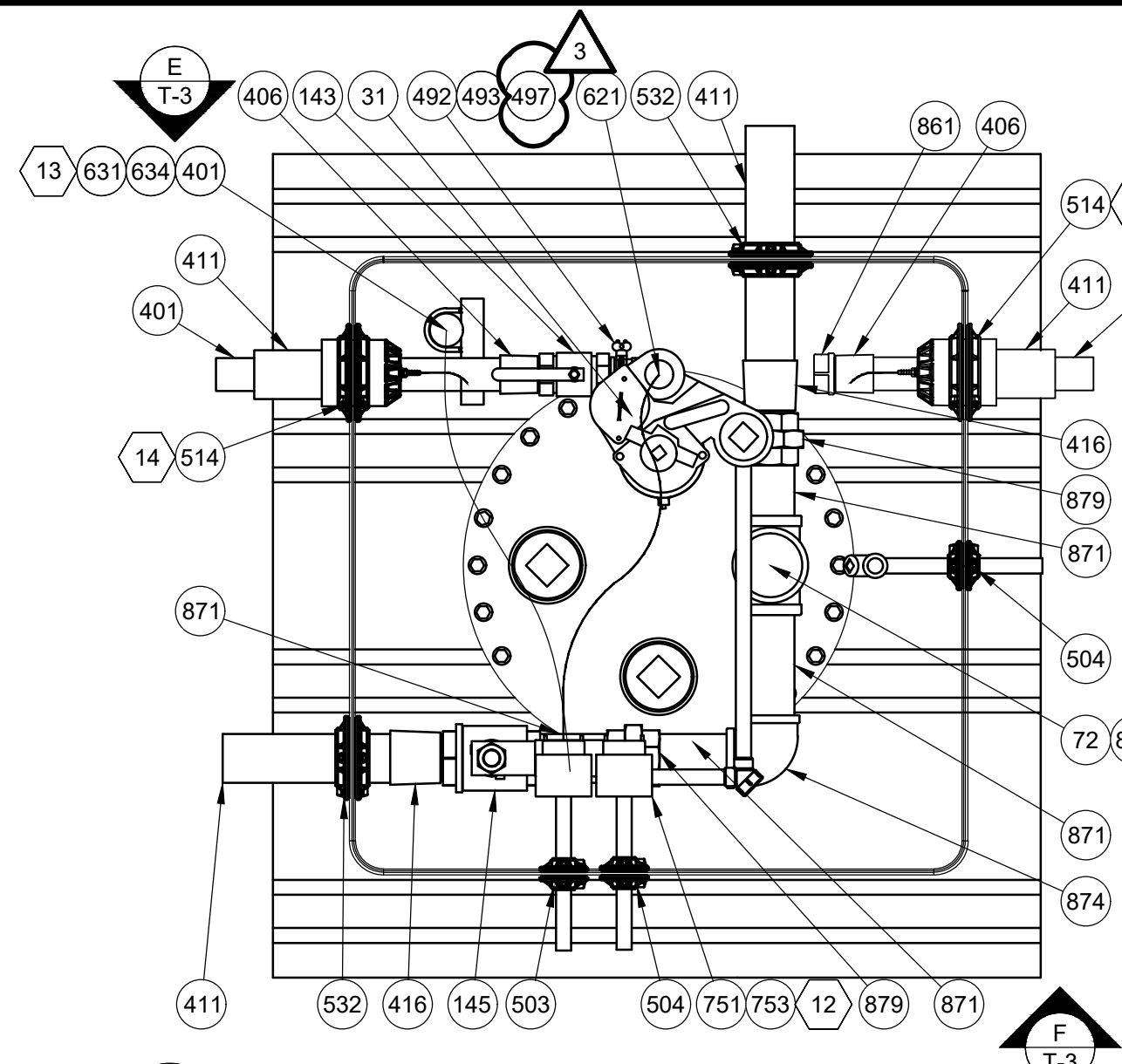
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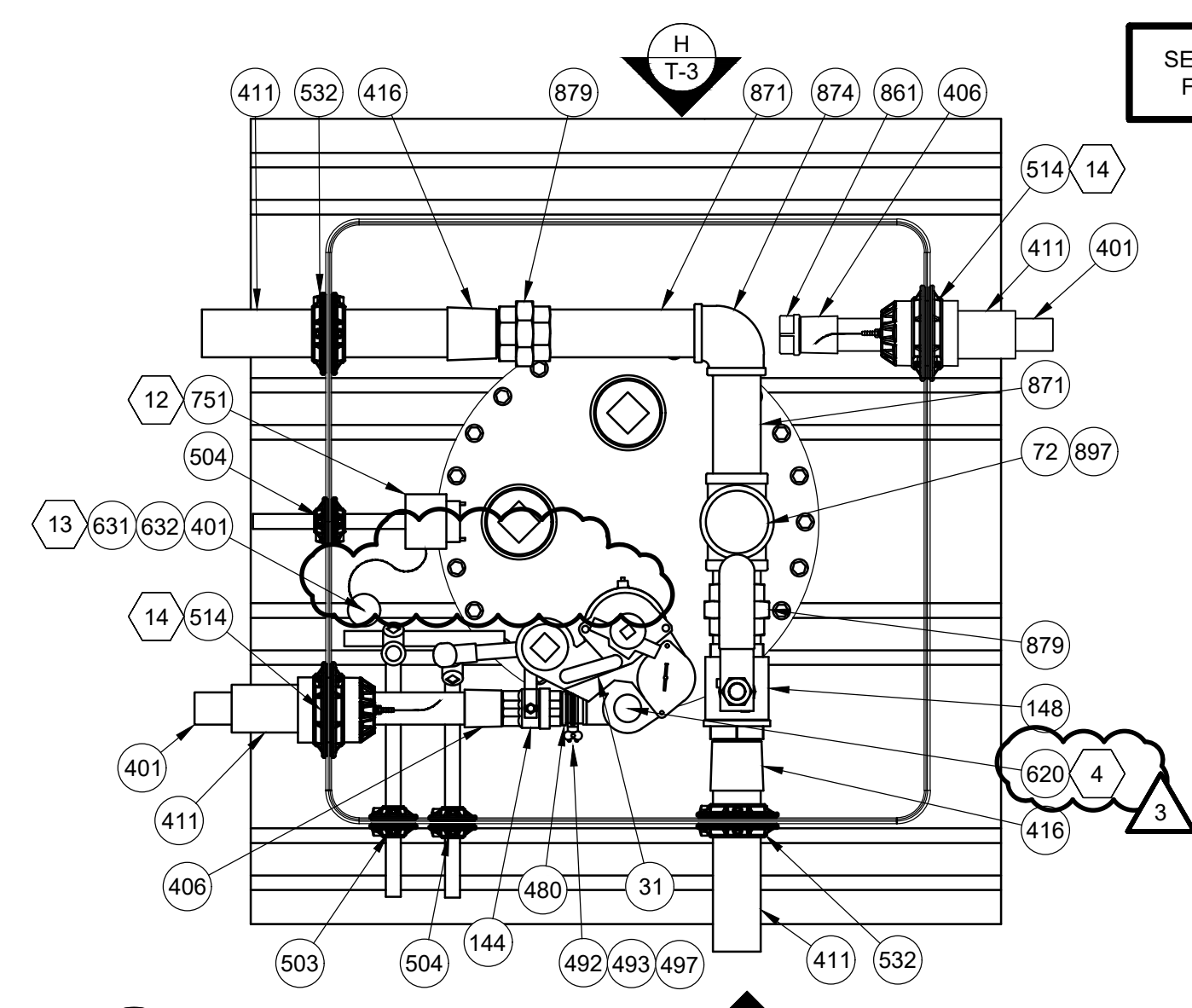
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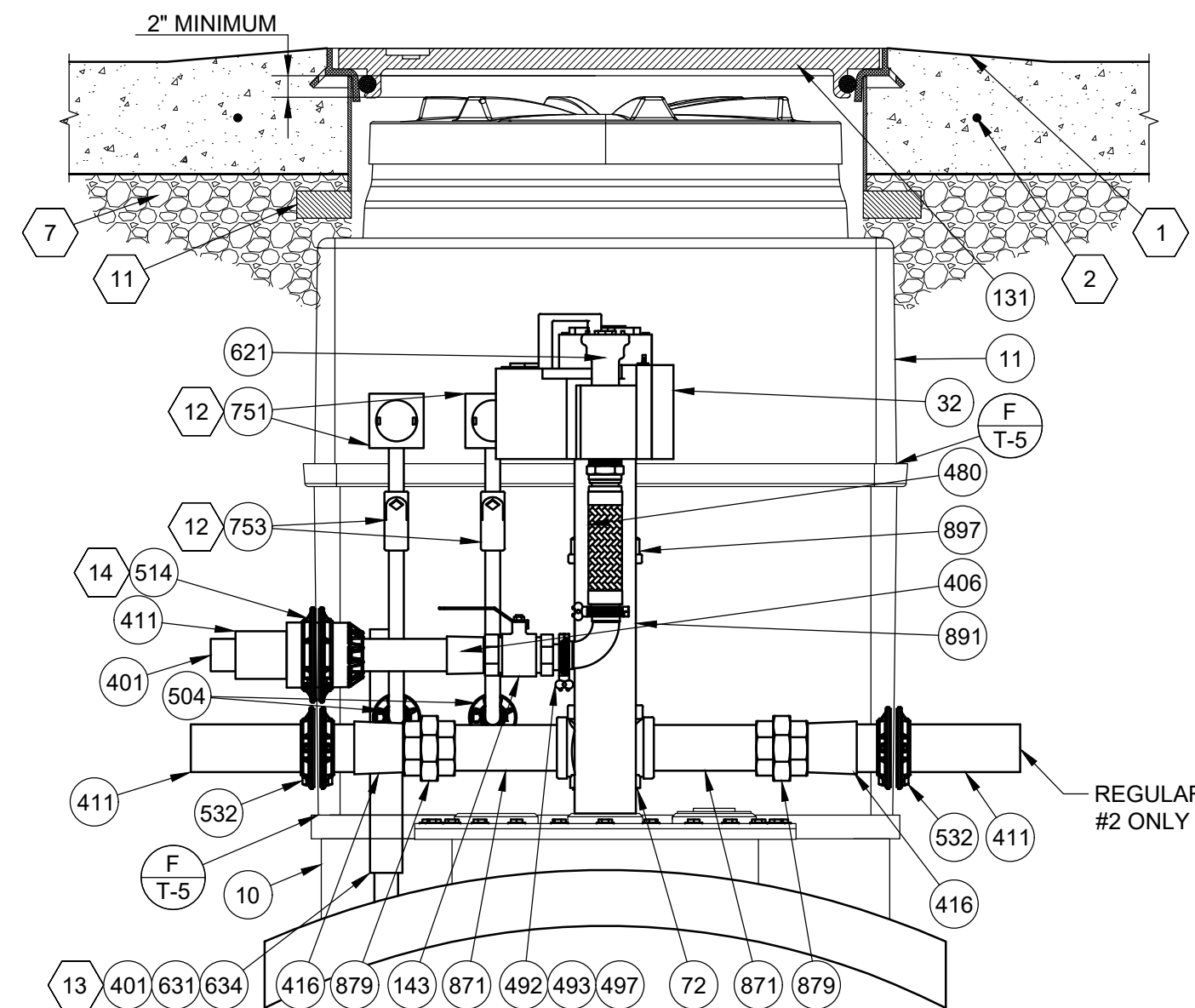
A REGULAR SUMP - PLAN
SCALE: 1" = 1'-0"



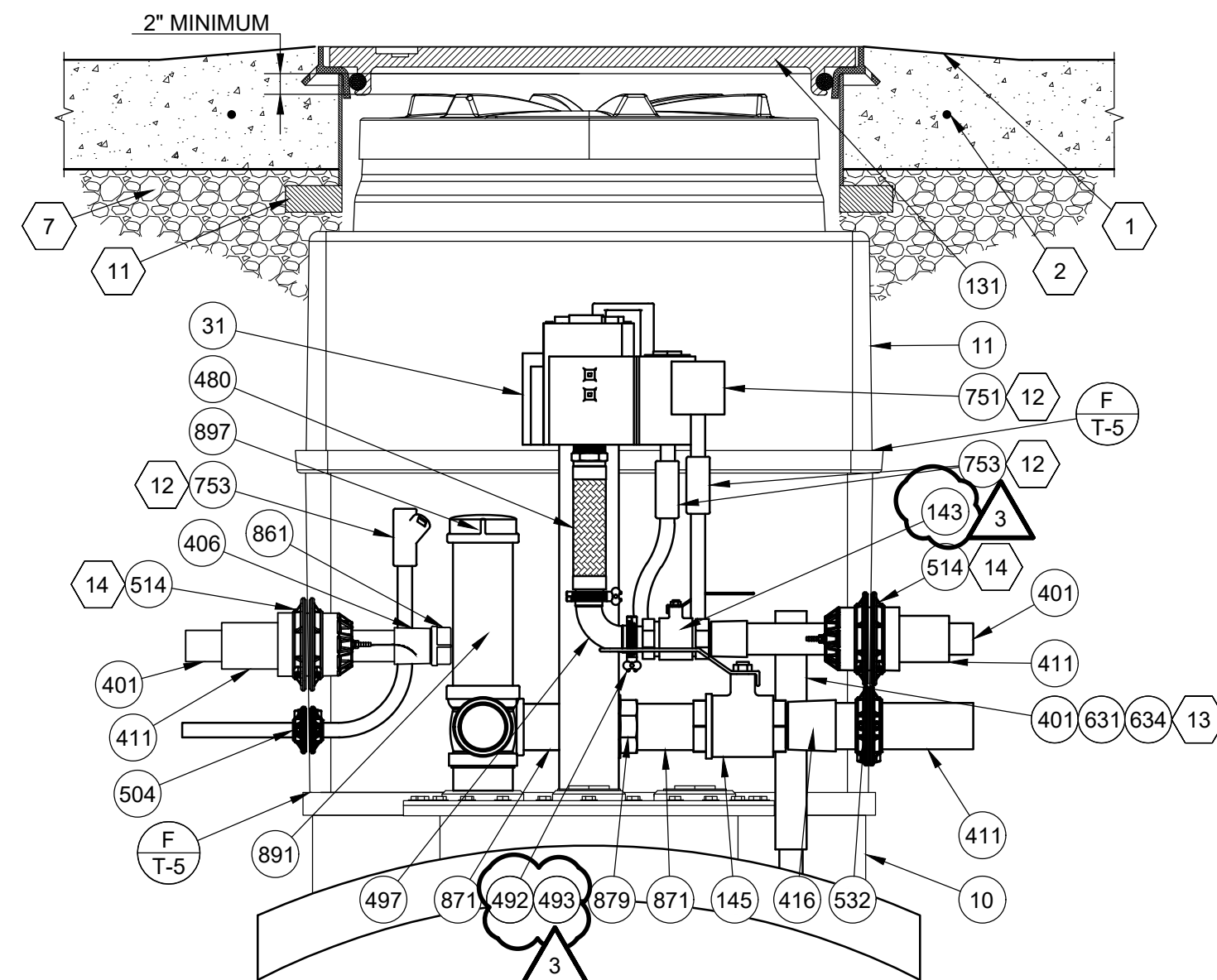
D PREMIUM SUMP - PLAN
SCALE: 1" = 1'-0"



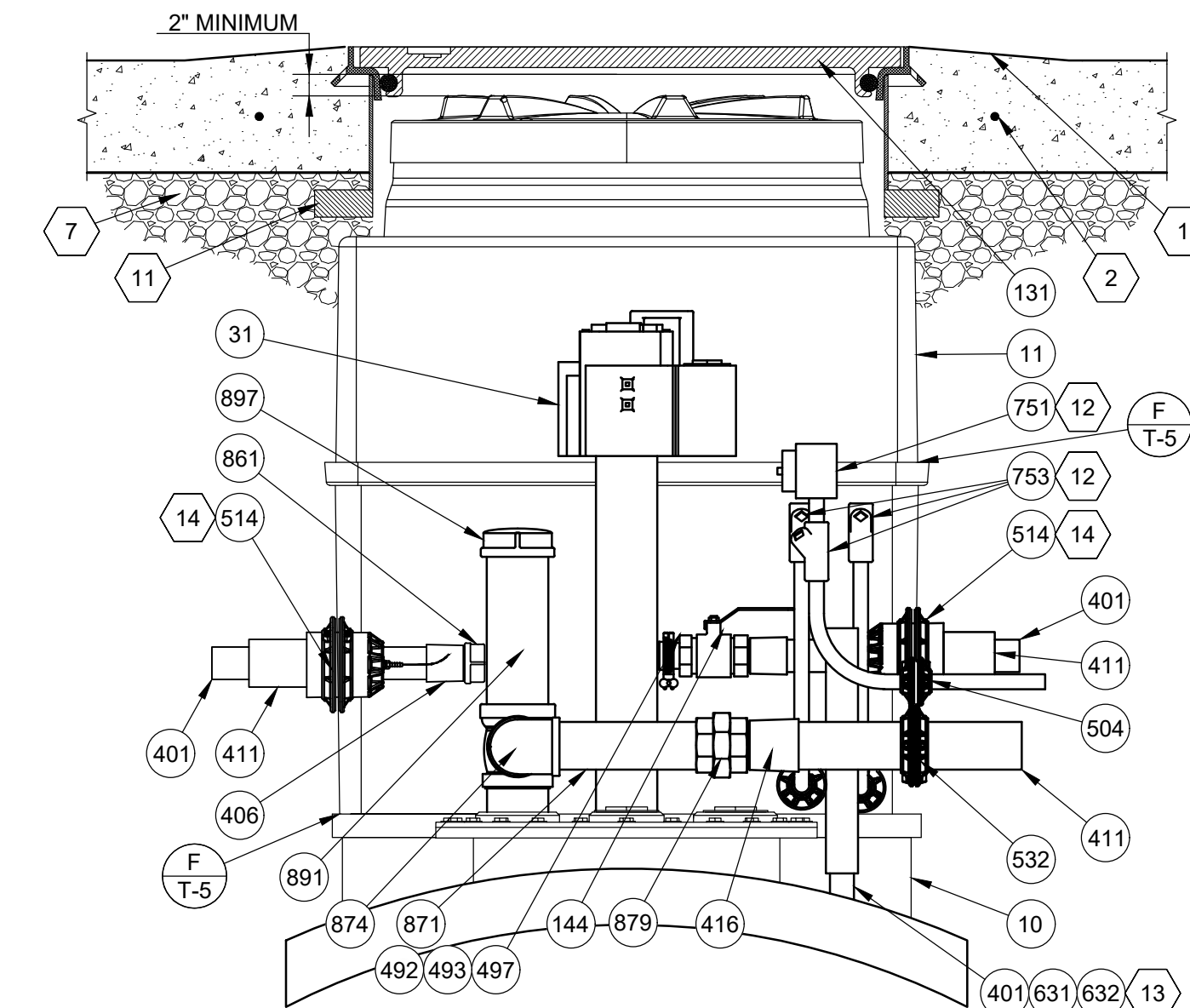
G E-85 SUMP - PLAN
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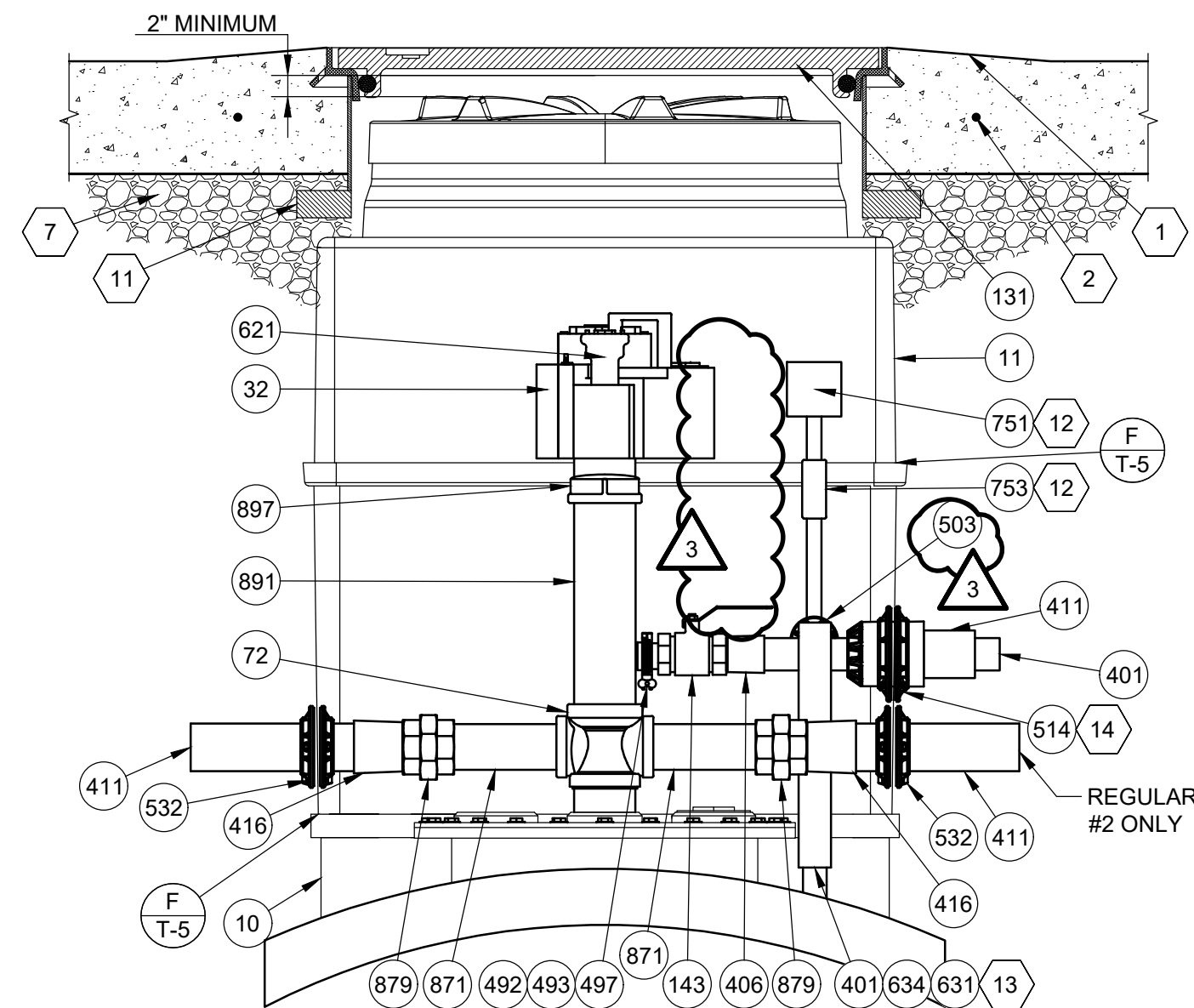
B REGULAR SUMP - ELEVATION
SCALE: 1" = 1'-0"



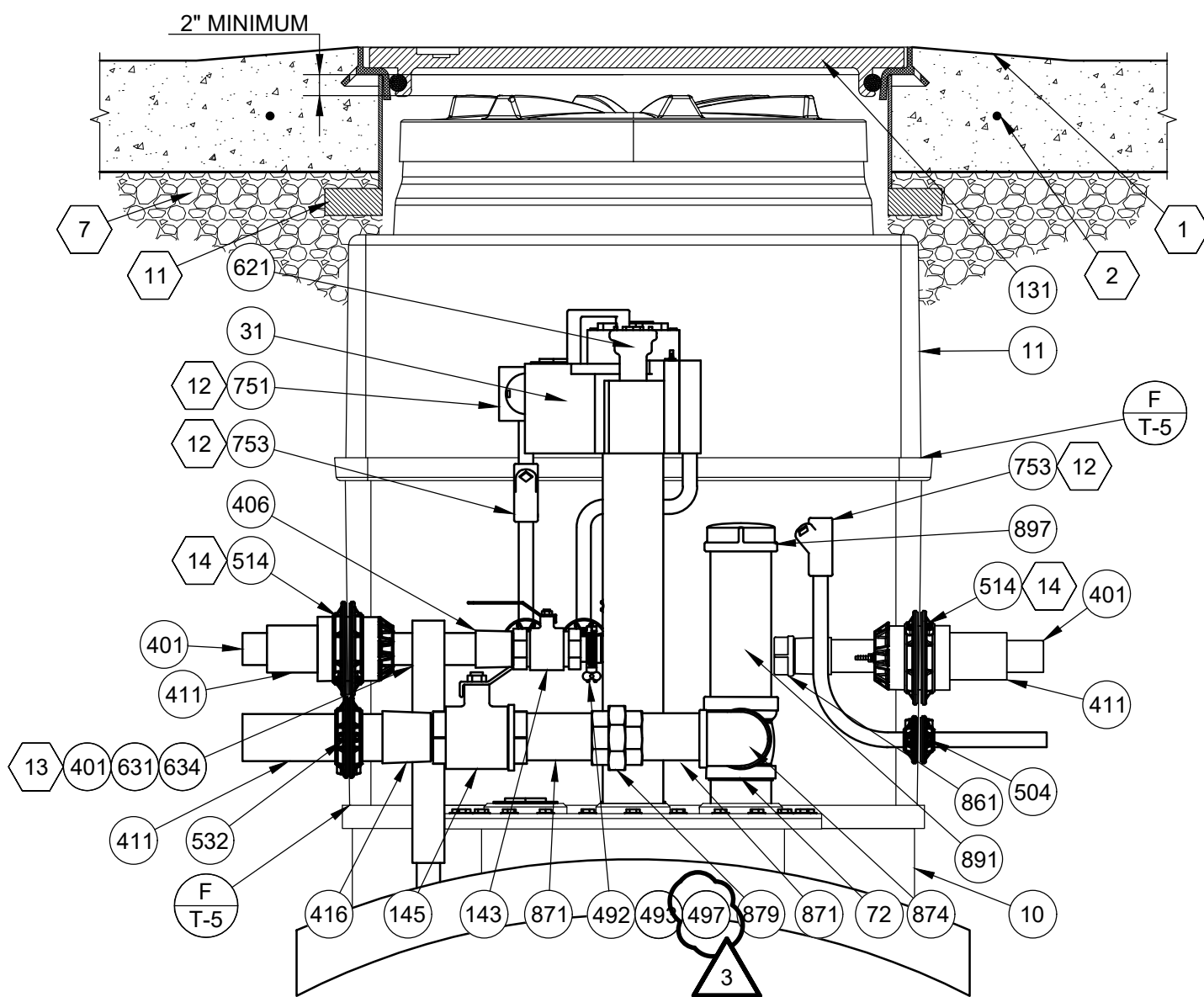
E PREMIUM SUMP - ELEVATION
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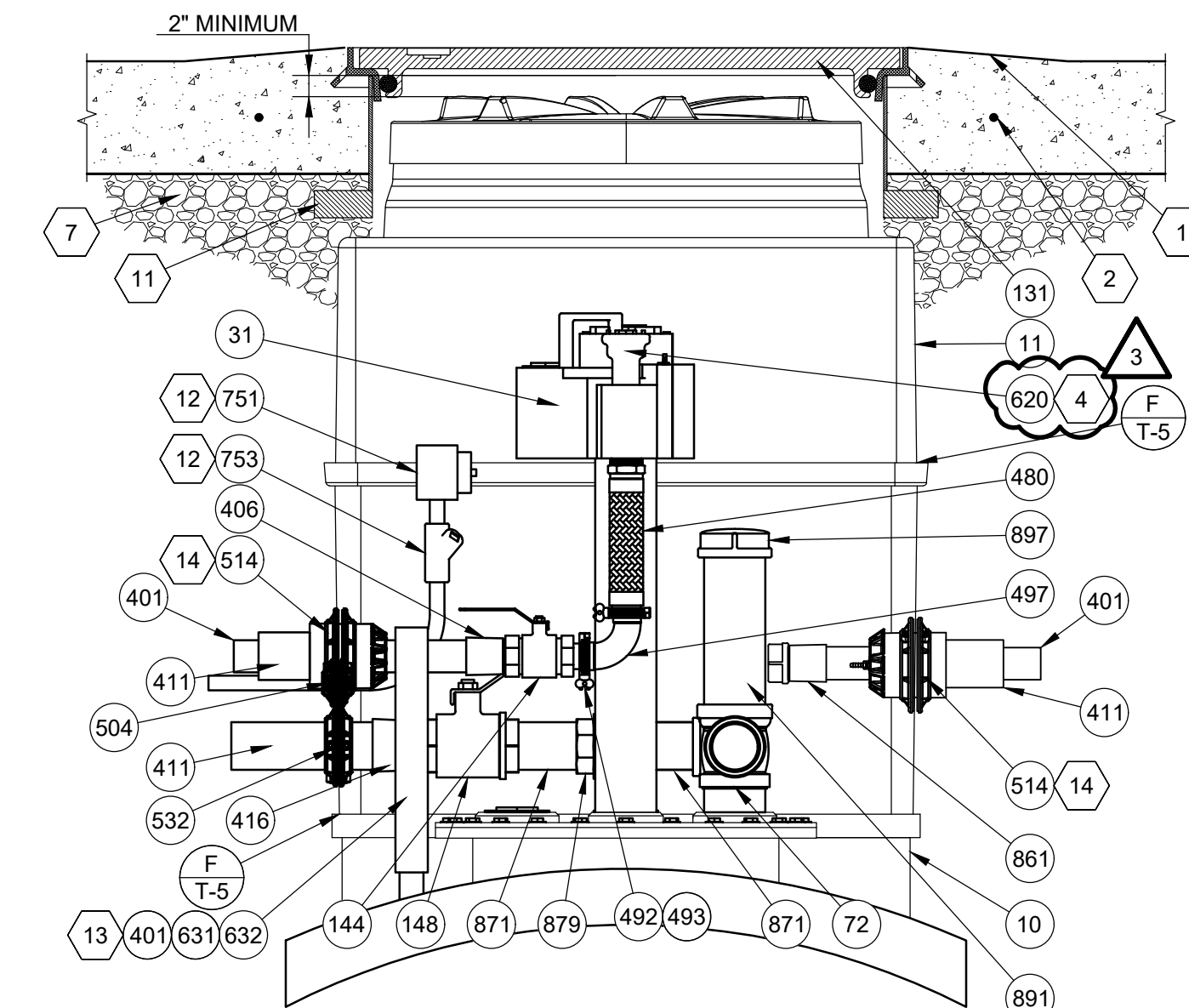
H E-85 SUMP - ELEVATION
SCALE: 1" = 1'-0"



C REGULAR SUMP - ELEVATION
SCALE: 1" = 1'-0"



F PREMIUM SUMP - ELEVATION
SCALE: 1" = 1'-0"



I E-85 SUMP - ELEVATION
SCALE: 1" = 1'-0"

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RETAIL TANK SUMP DETAILS

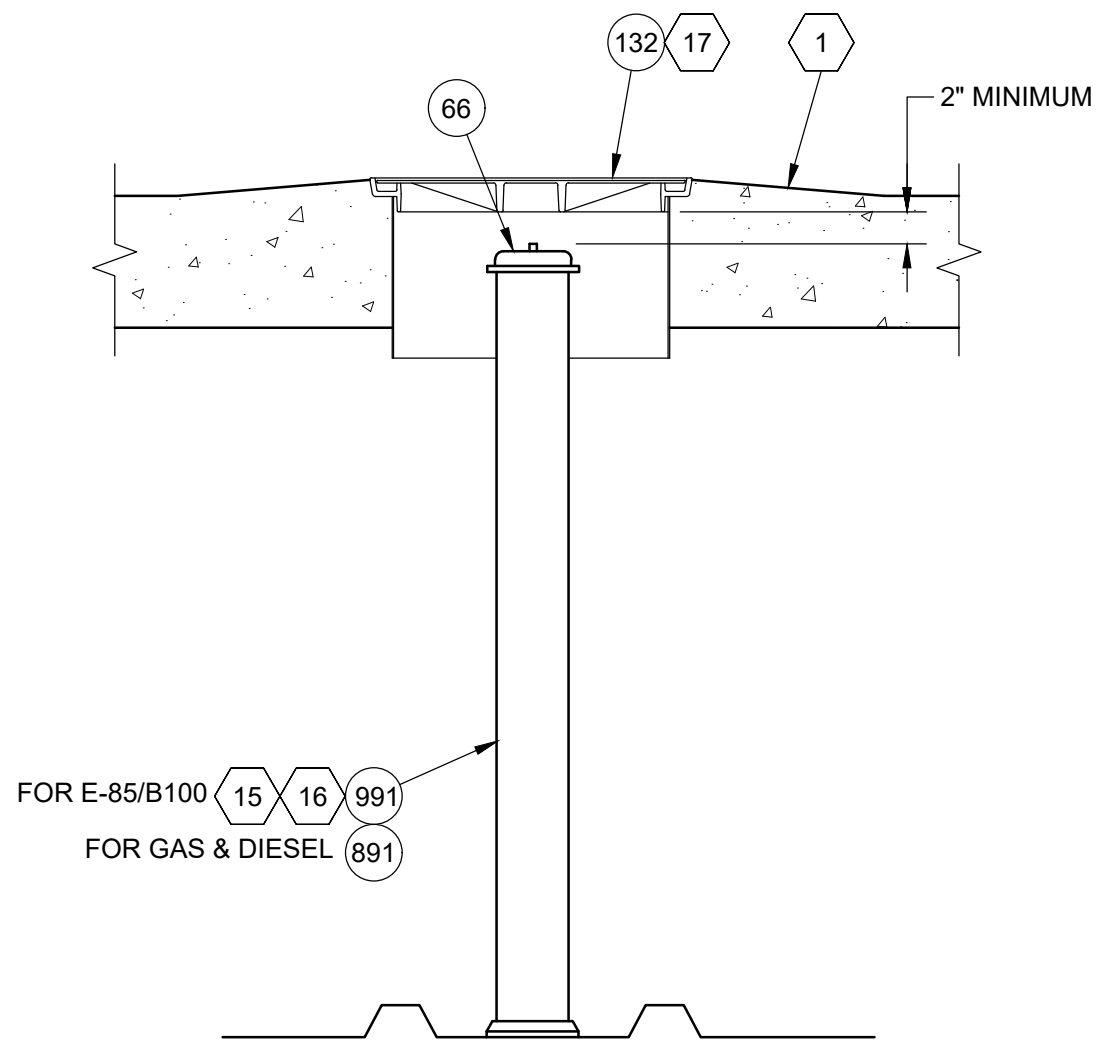
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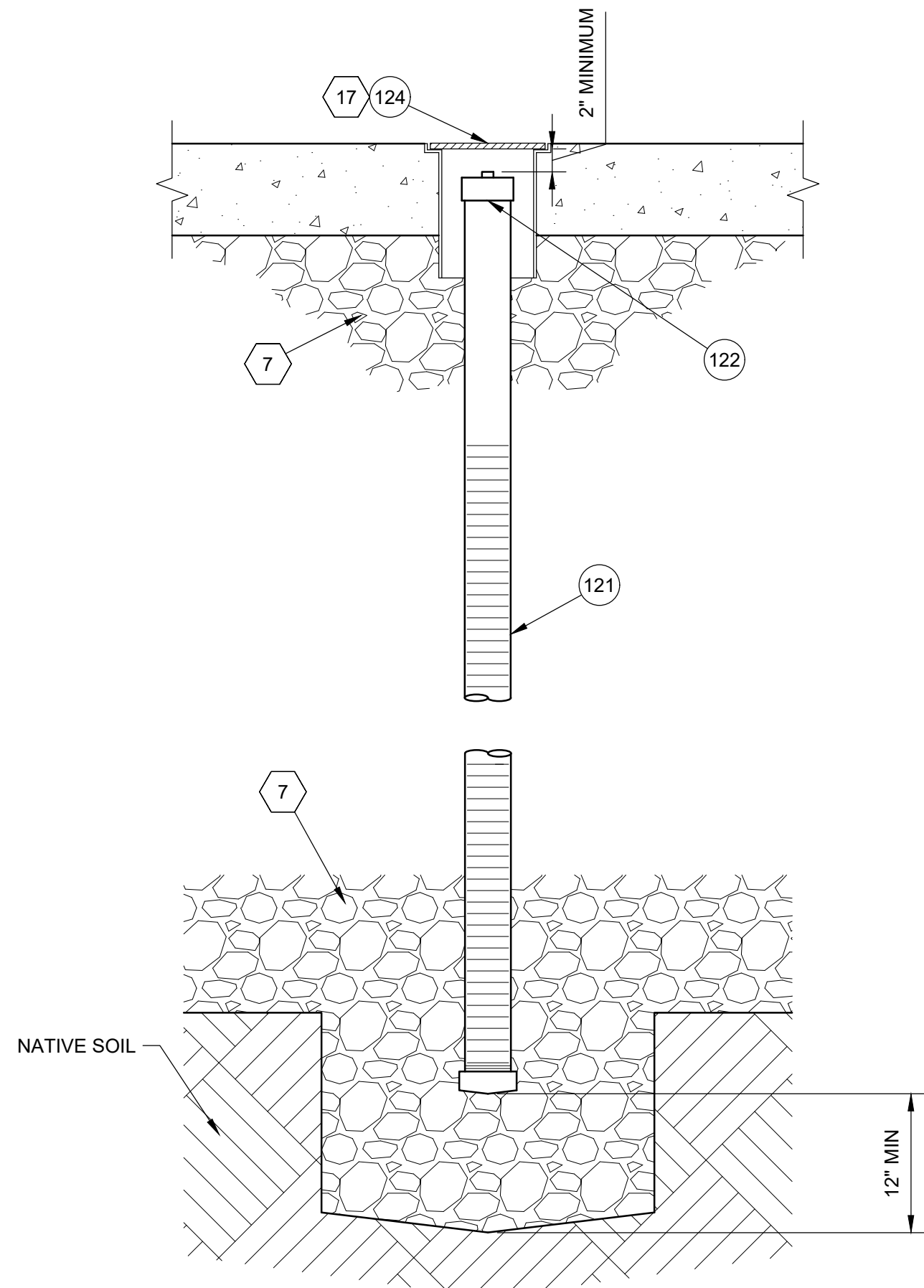
A NOT USED

C INTERSTITIAL SPACE MONITOR
SCALE: 1" = 1'-0"

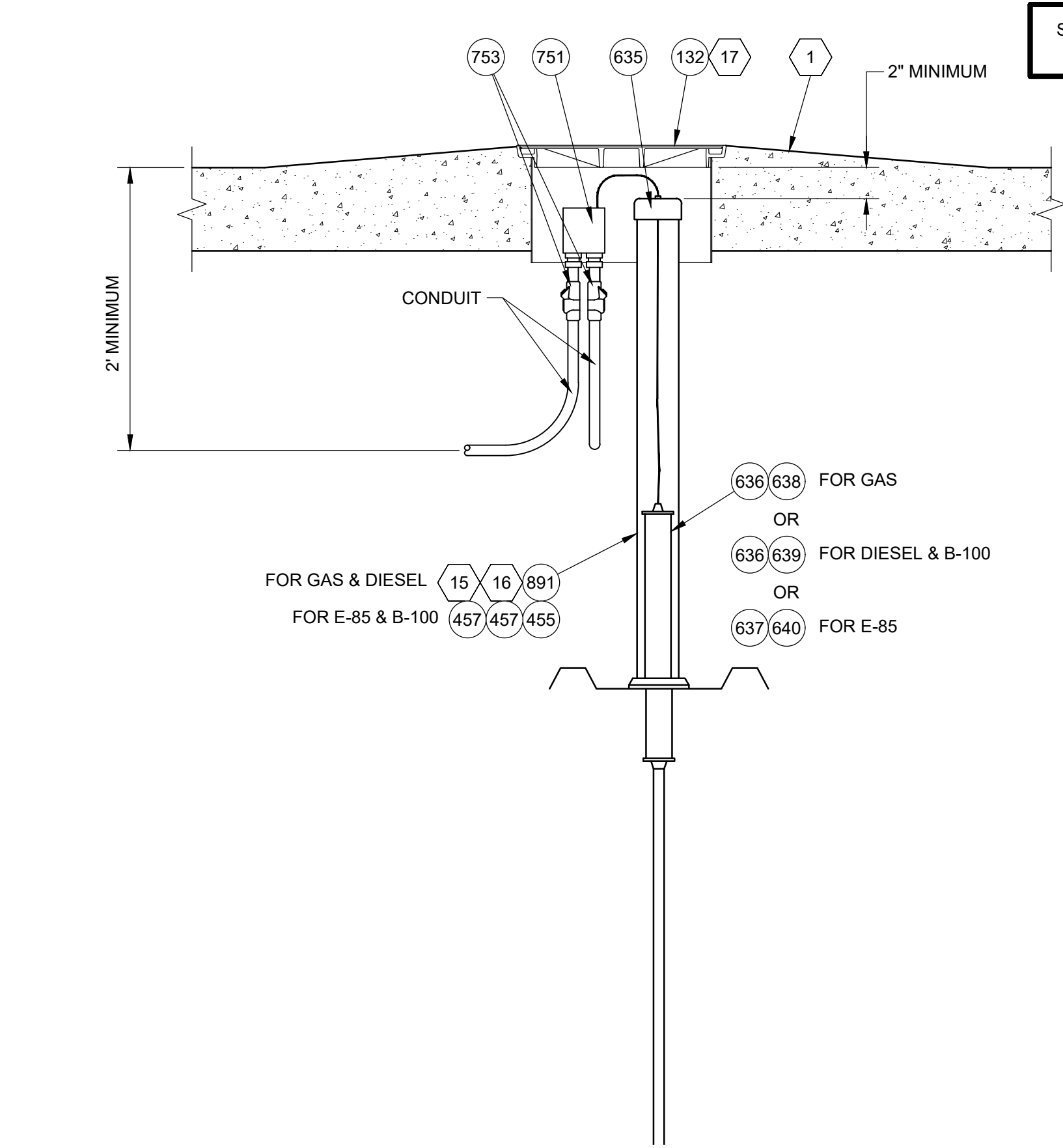
E TANK GAUGE
SCALE: 1" = 1'-0"



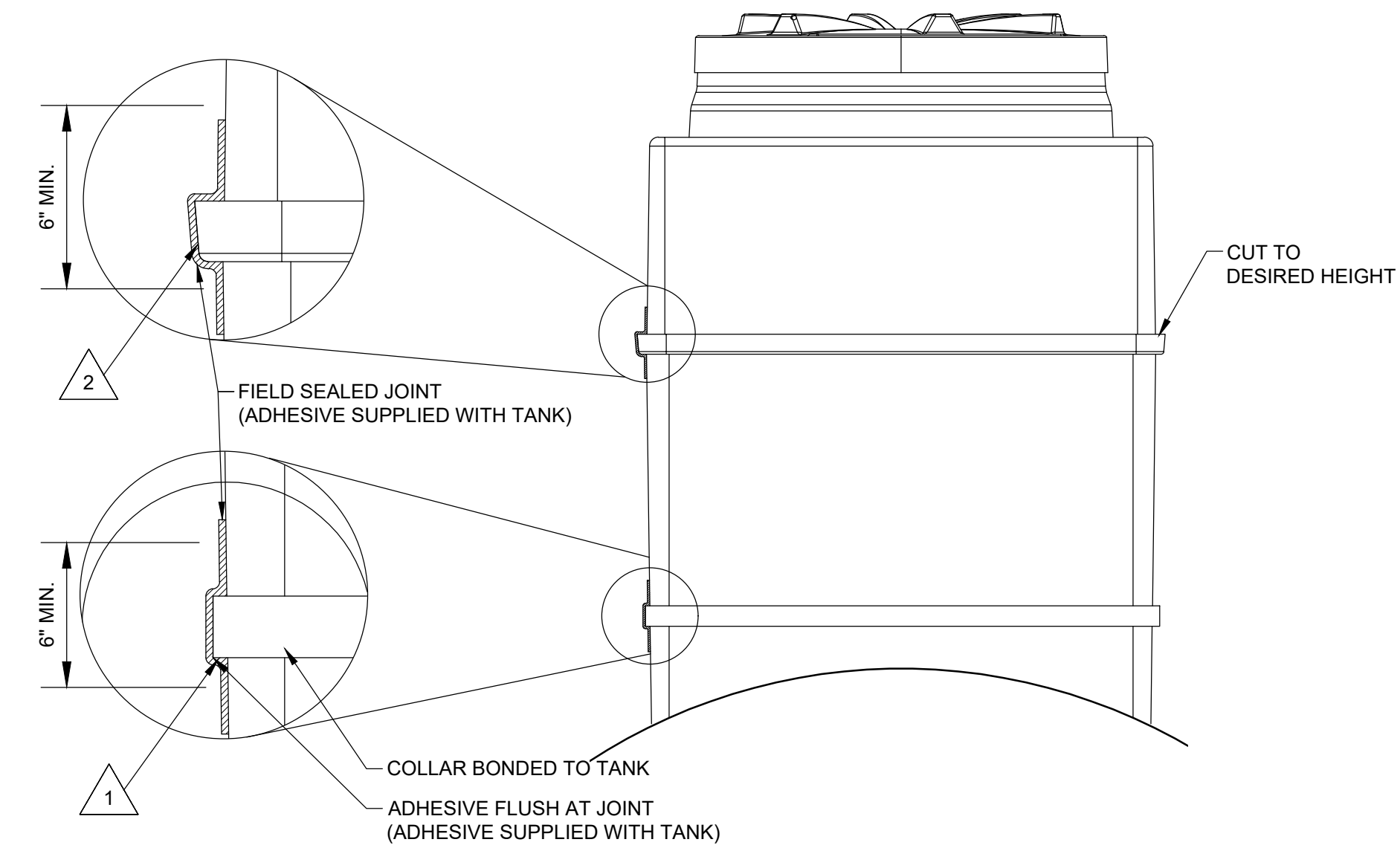
B BLANK RISER
SCALE: 1" = 1'-0"



D OBSERVATION WELL (WHERE REQUIRED)
SCALE: 1" = 1'-0"



- NOTES:
- FIRST INSTALL SUMP RISER TO TANK MOUNTING COLLAR PER MANUFACTURER'S INSTRUCTIONS. THEN GLASS WRAP & LAMINATE THE ENTIRE OUTSIDE OF PERIMETER OF THE BOTTOM CONNECTION FOLLOWING CURING OF ADHESIVE. SPECIFIC ATTENTION MUST BE GIVEN TO SURFACE PREPARATION. FIBERGLASS MAT MUST BE 6" WIDE MINIMUM AND MUST EXTEND 1/2" BEYOND COVERAGE OF ADHESIVE.
 - FIRST INSTALL SUMP LID TO SUMP RISER PER MANUFACTURER'S INSTRUCTIONS. THEN GLASS WRAP & LAMINATE THE ENTIRE OUTSIDE PERIMETER OF THE TOP CONNECTION FOLLOWING CURING OF ADHESIVE. SPECIFIC ATTENTION MUST BE GIVEN TO SURFACE PREPARATION. FIBERGLASS MAT MUST EXTEND 1/2" BEYOND COVERAGE OF ADHESIVE.



F SUMP CONNECTION
SCALE: 1" = 1'-0"

REVISIONS			
ERK	BNH	BNH	
11/15/23	11/15/23	2/22/24	
OWNER REVIEW SET	BID AND PERMIT SET	REVISED BID AND PERMIT SET	

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PHONE: 440-842-6501

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SCALE:
1" = 1'-0"

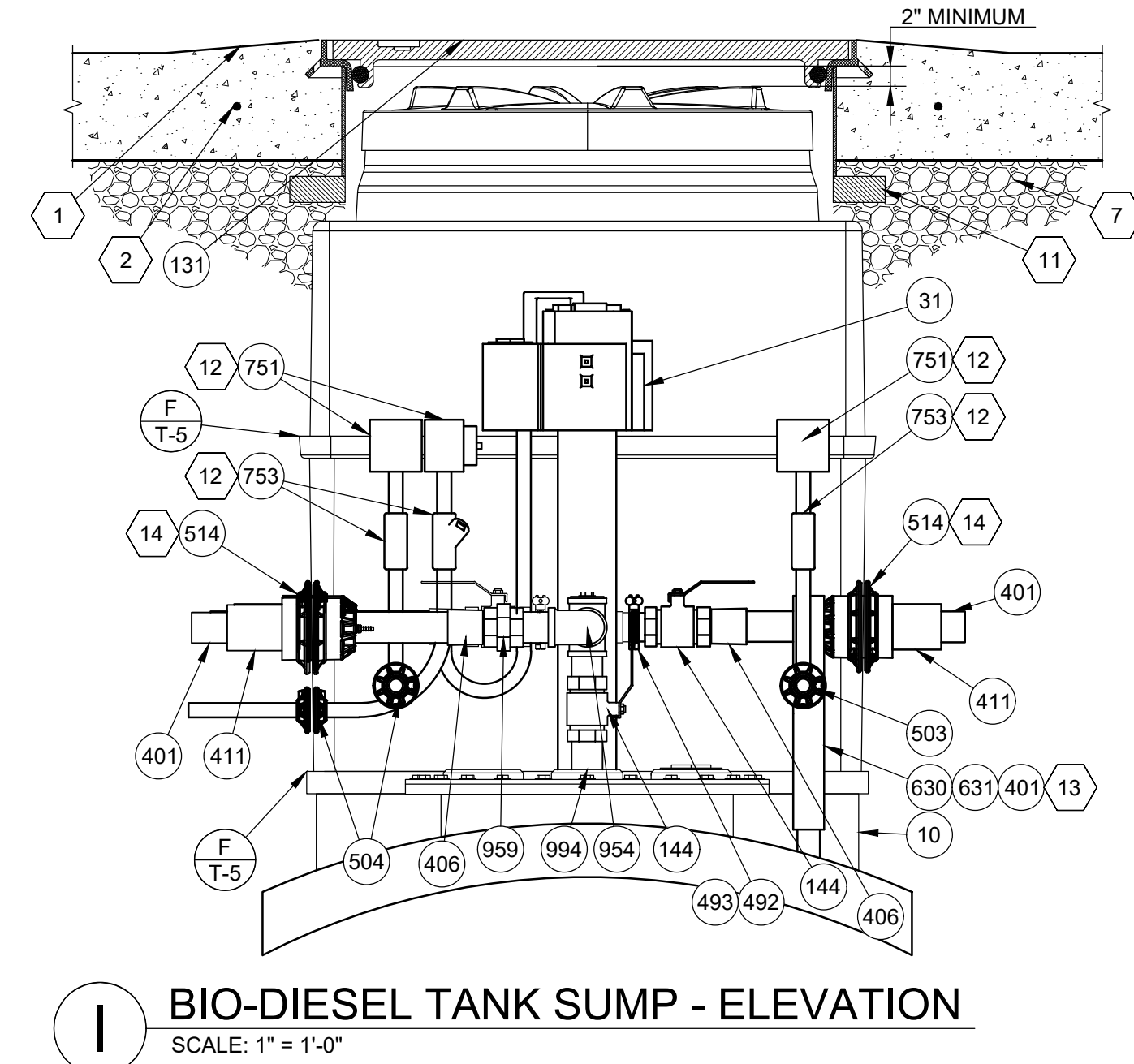
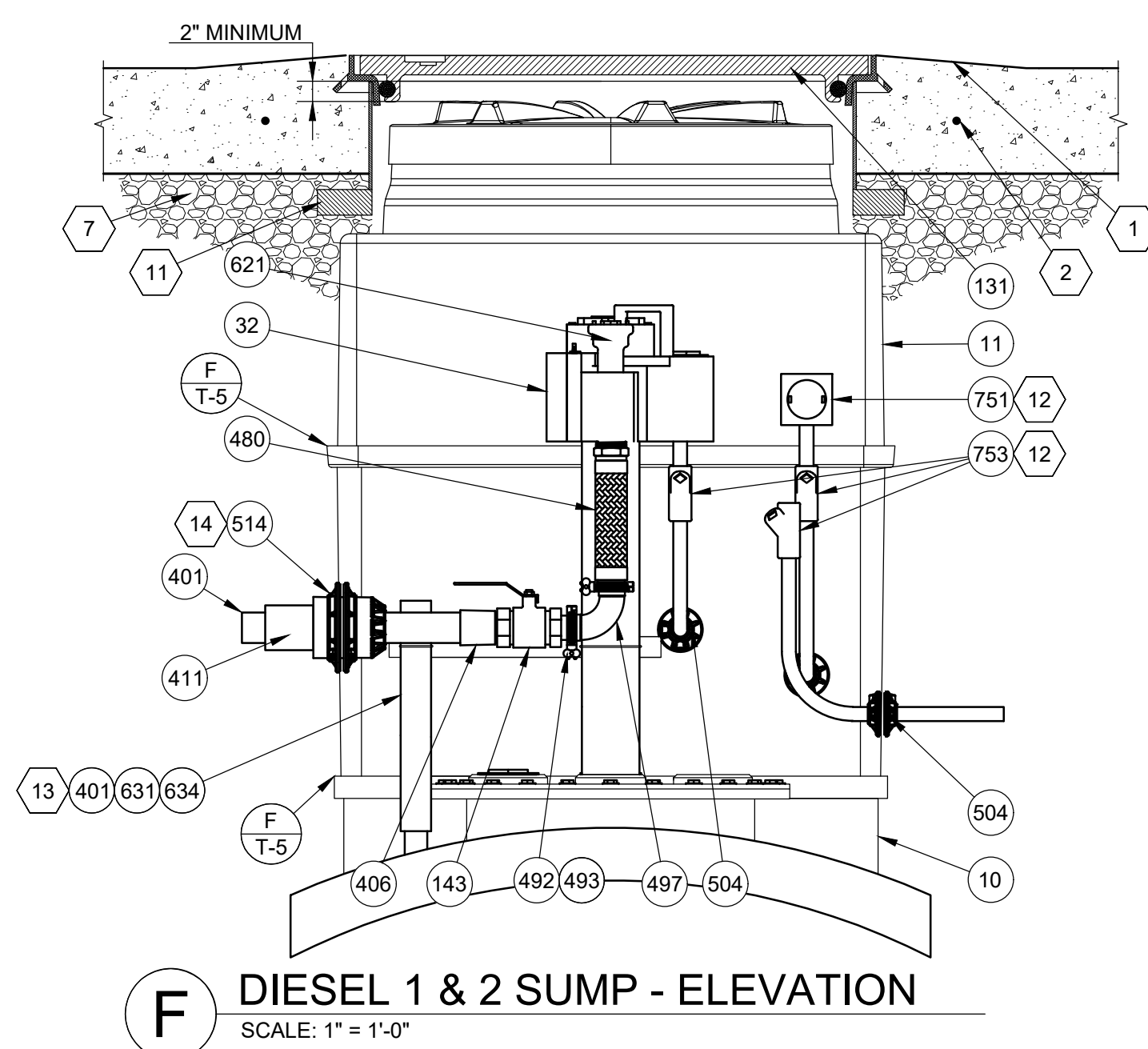
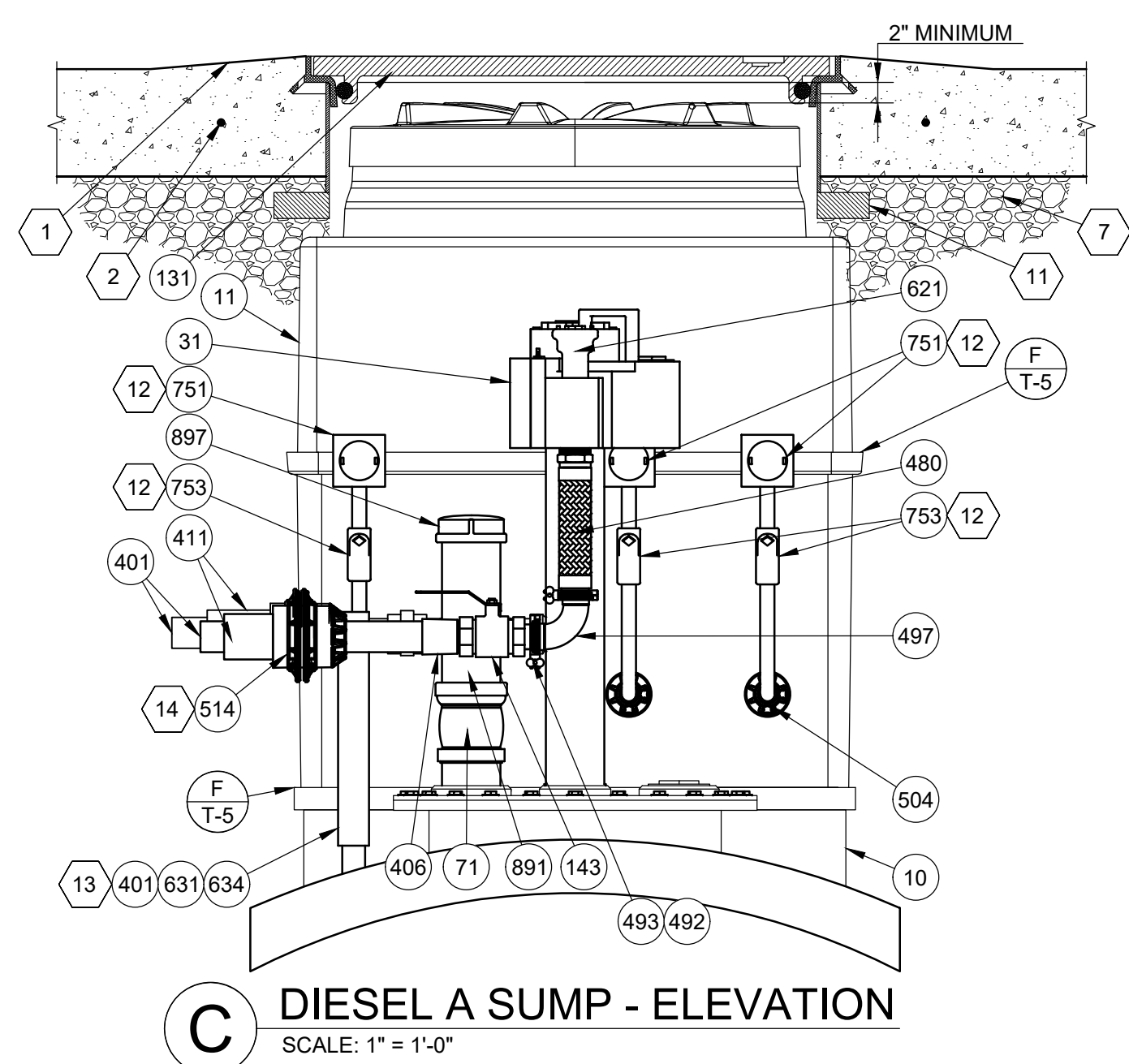
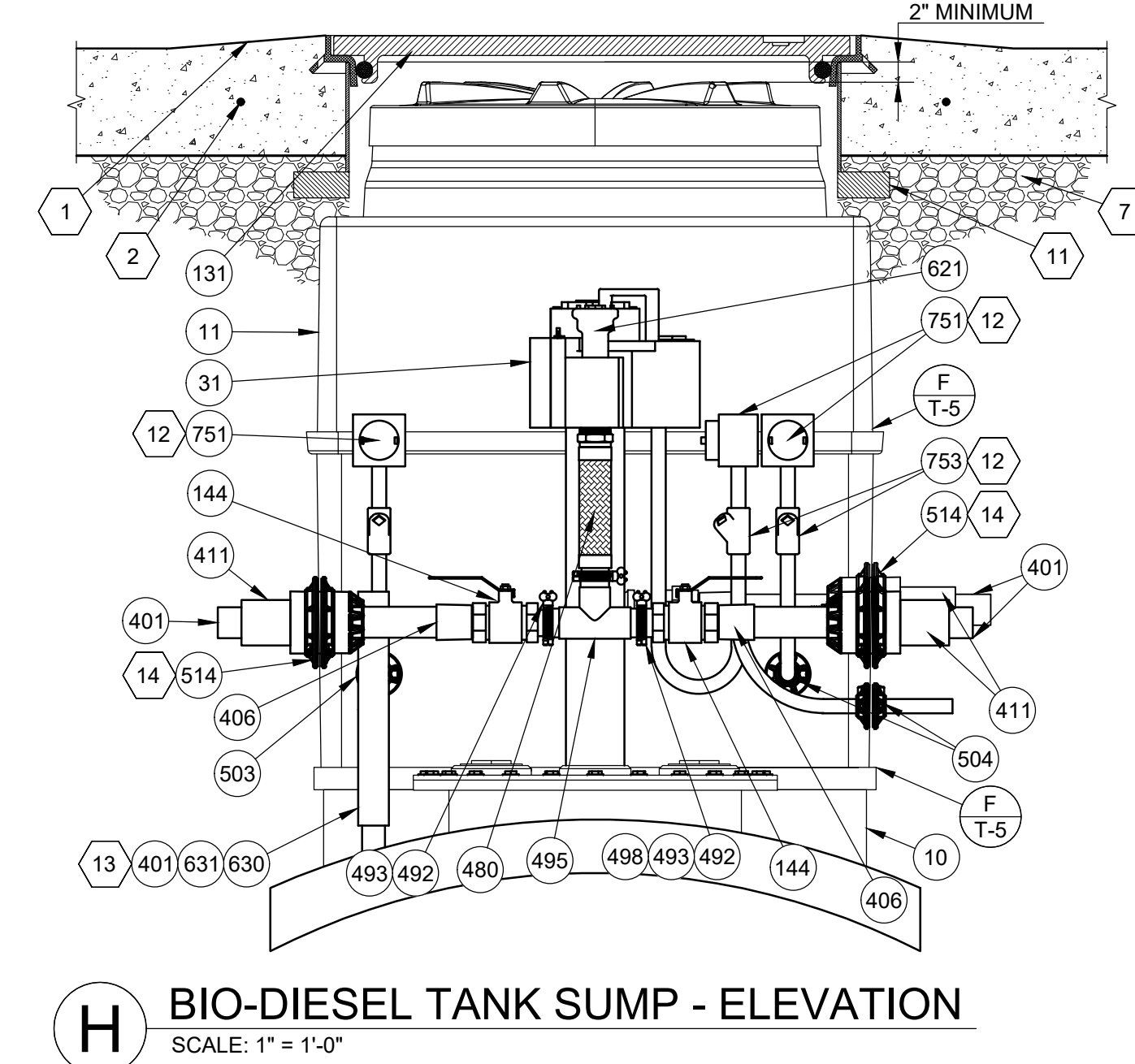
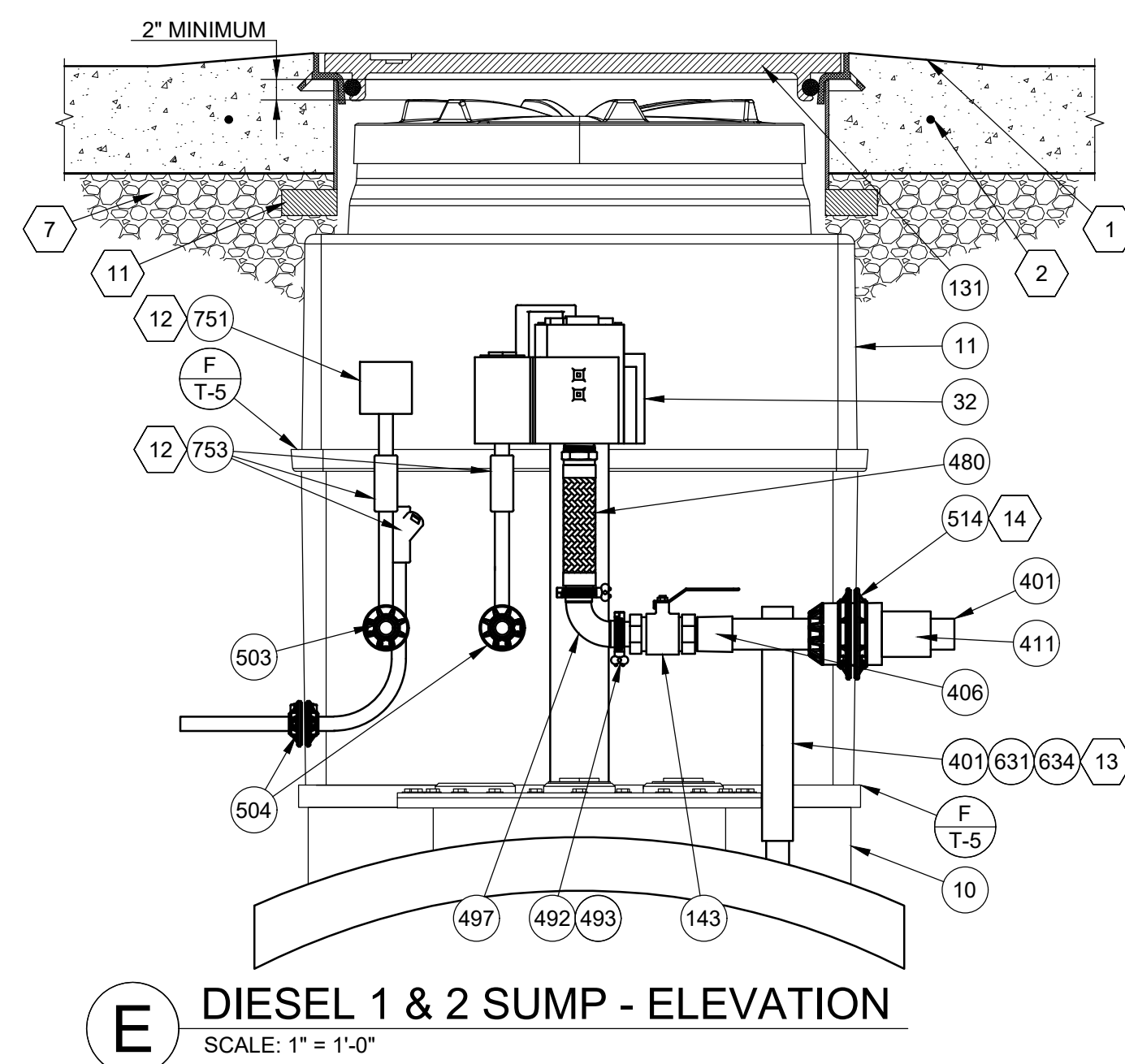
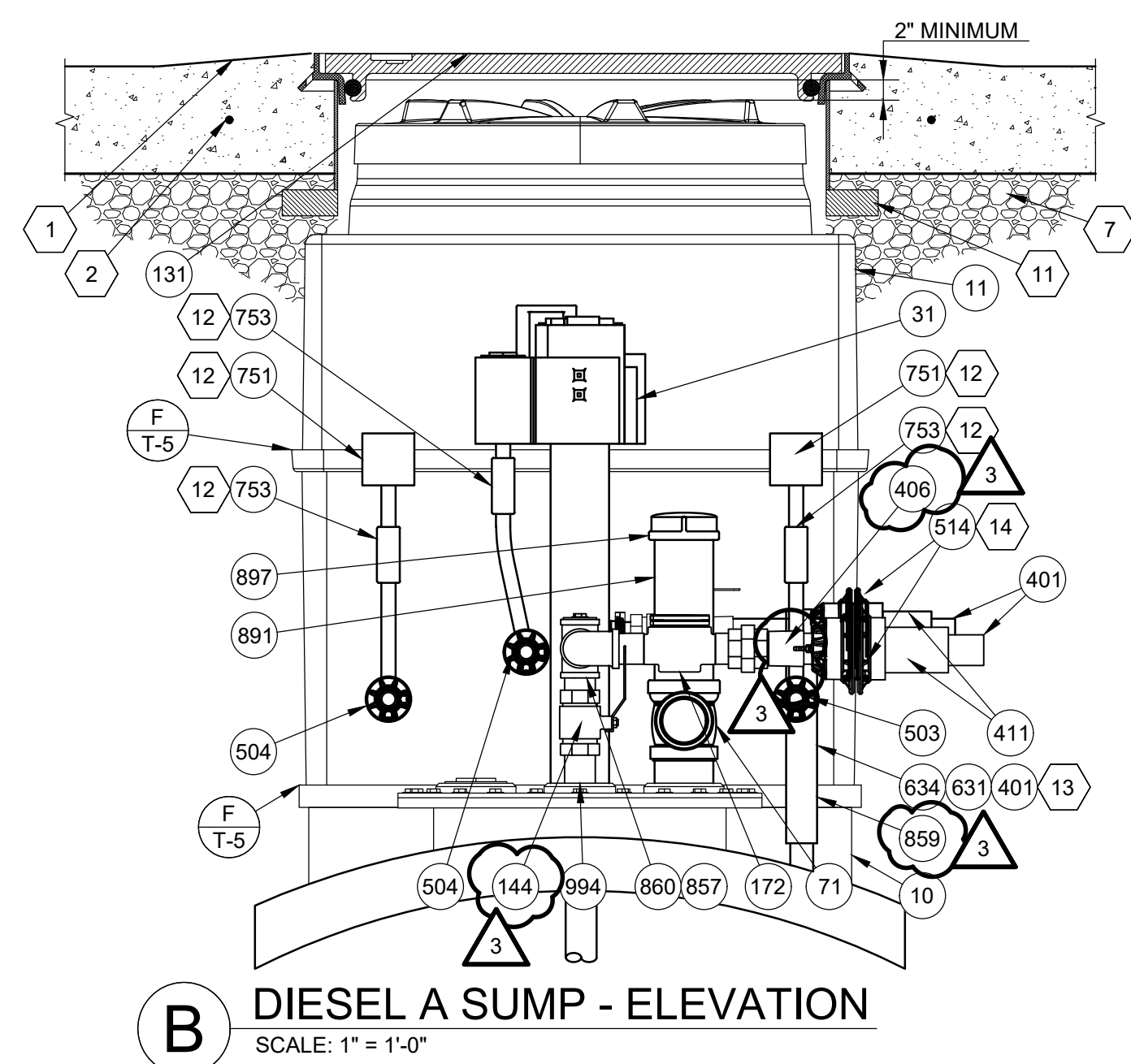
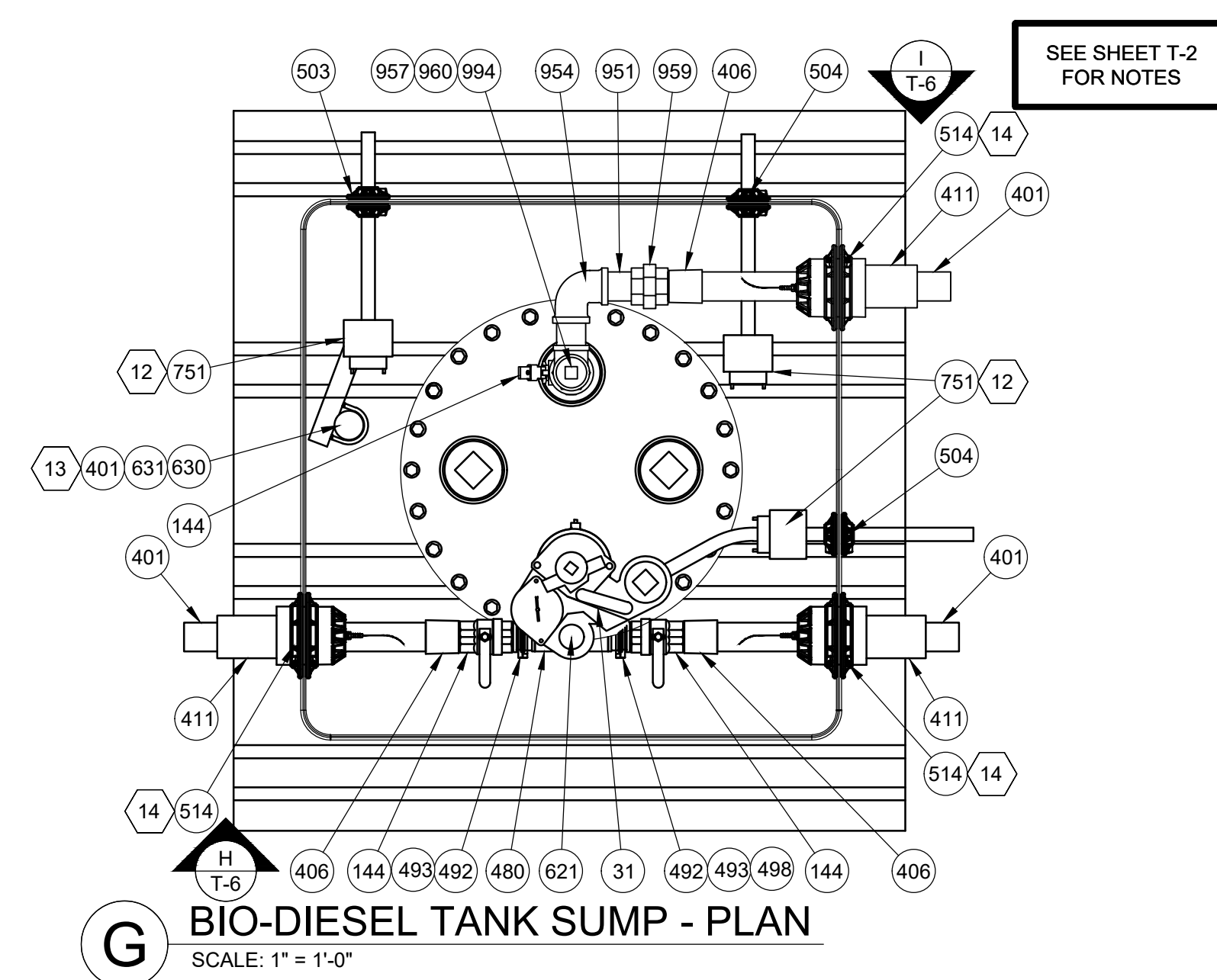
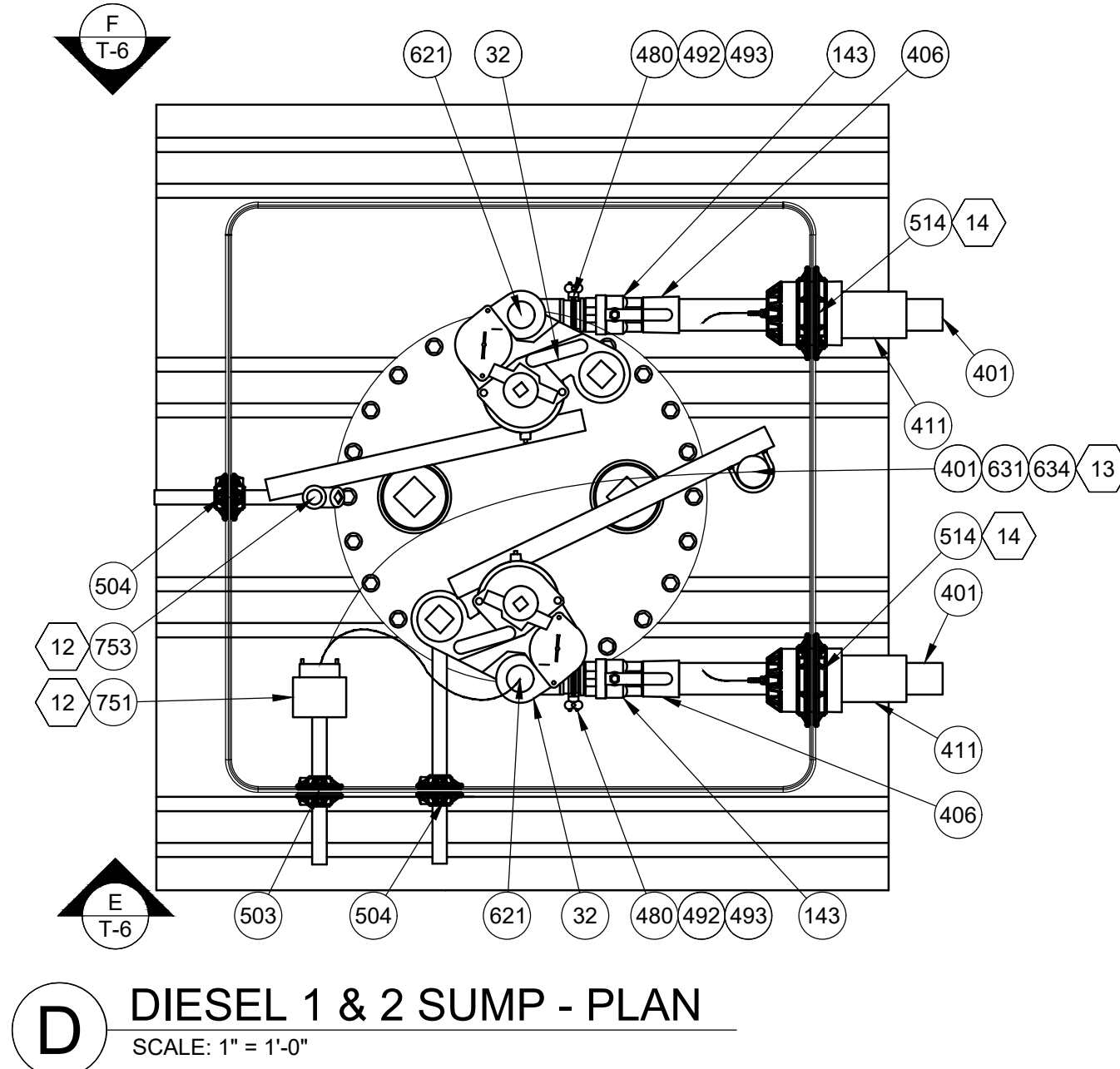
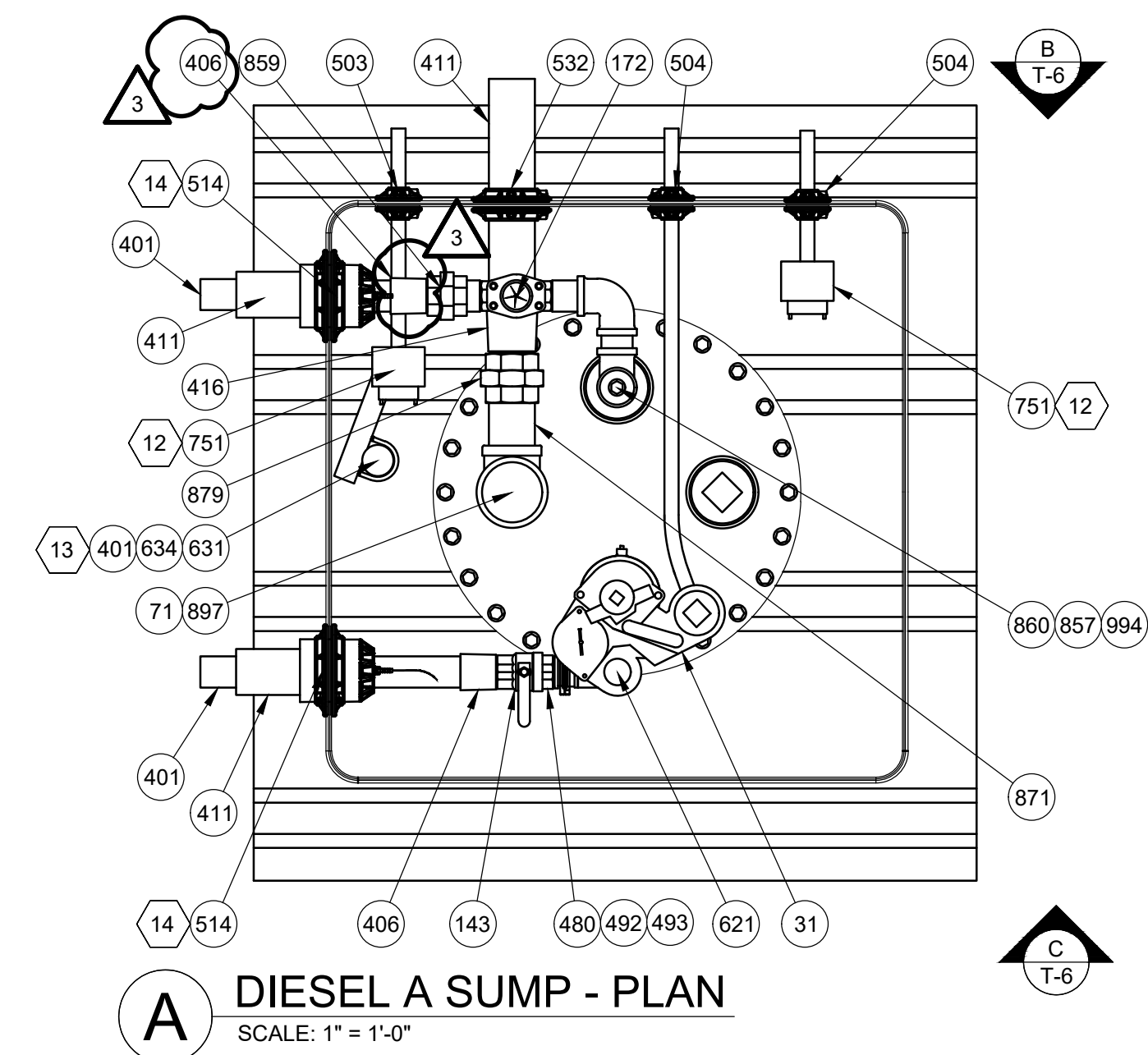
DATE:
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DRAWING NO.
T-5

TANK TOP DETAILS



		REVISONS			
1	OWNER REVIEW SET	11/15/23	ERK		
2	BID AND PERMIT SET	11/15/23	BNH		
3	REVISED BID AND PERMIT SET	2/22/24	BNH		
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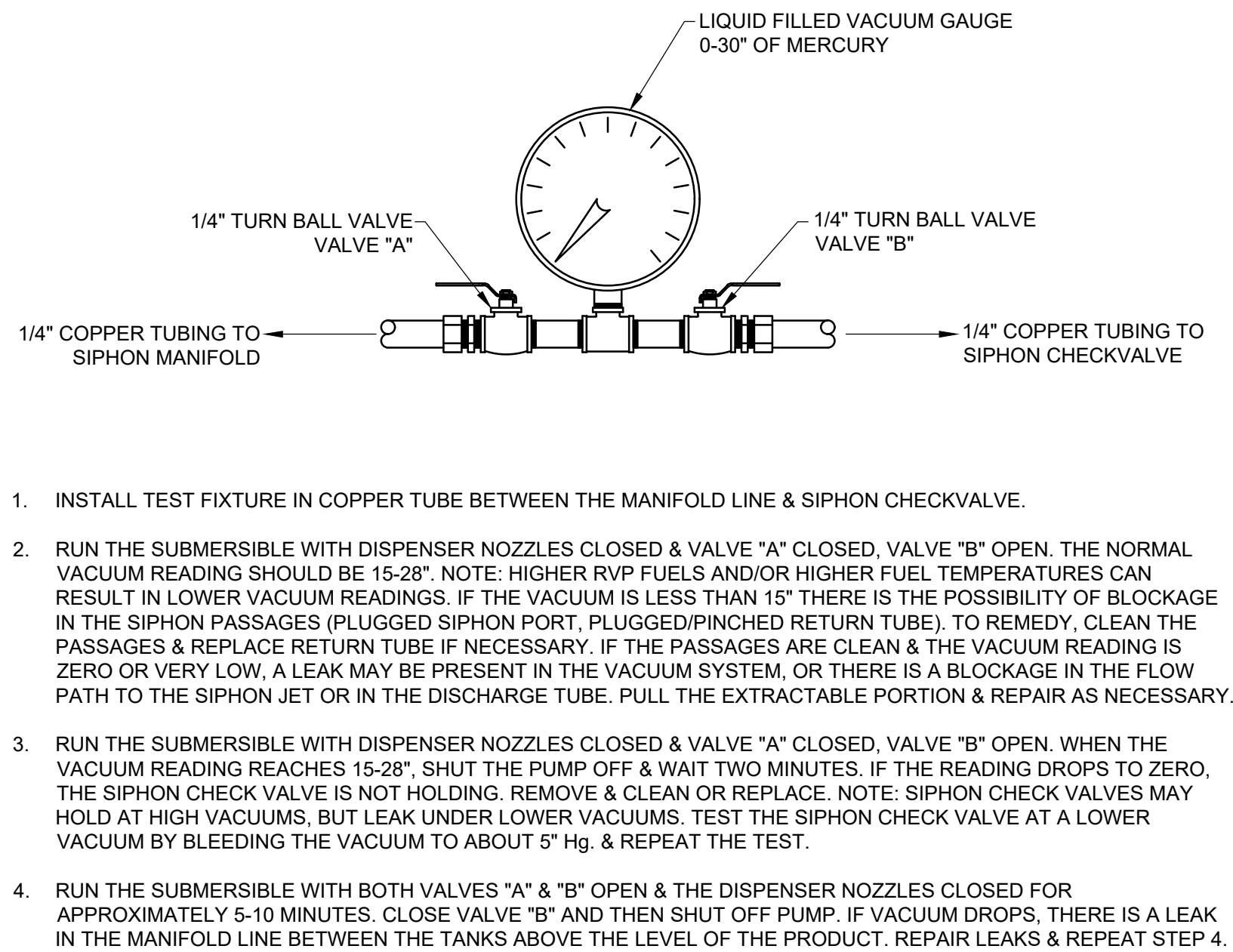
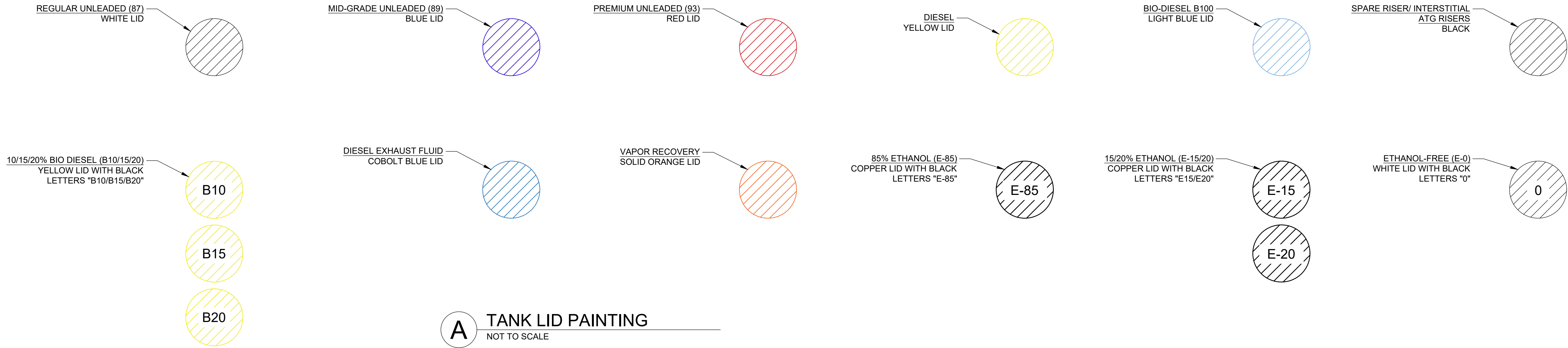
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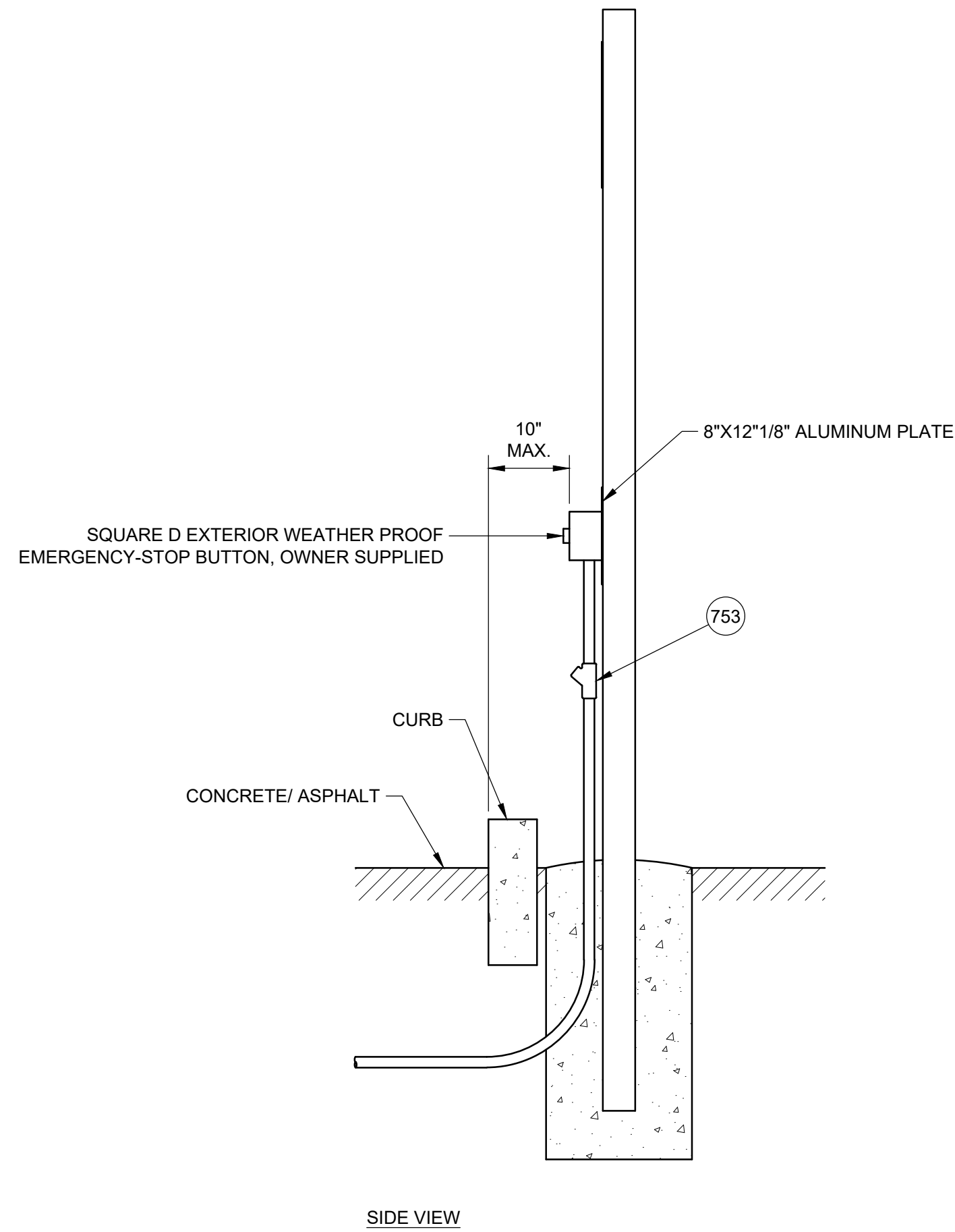
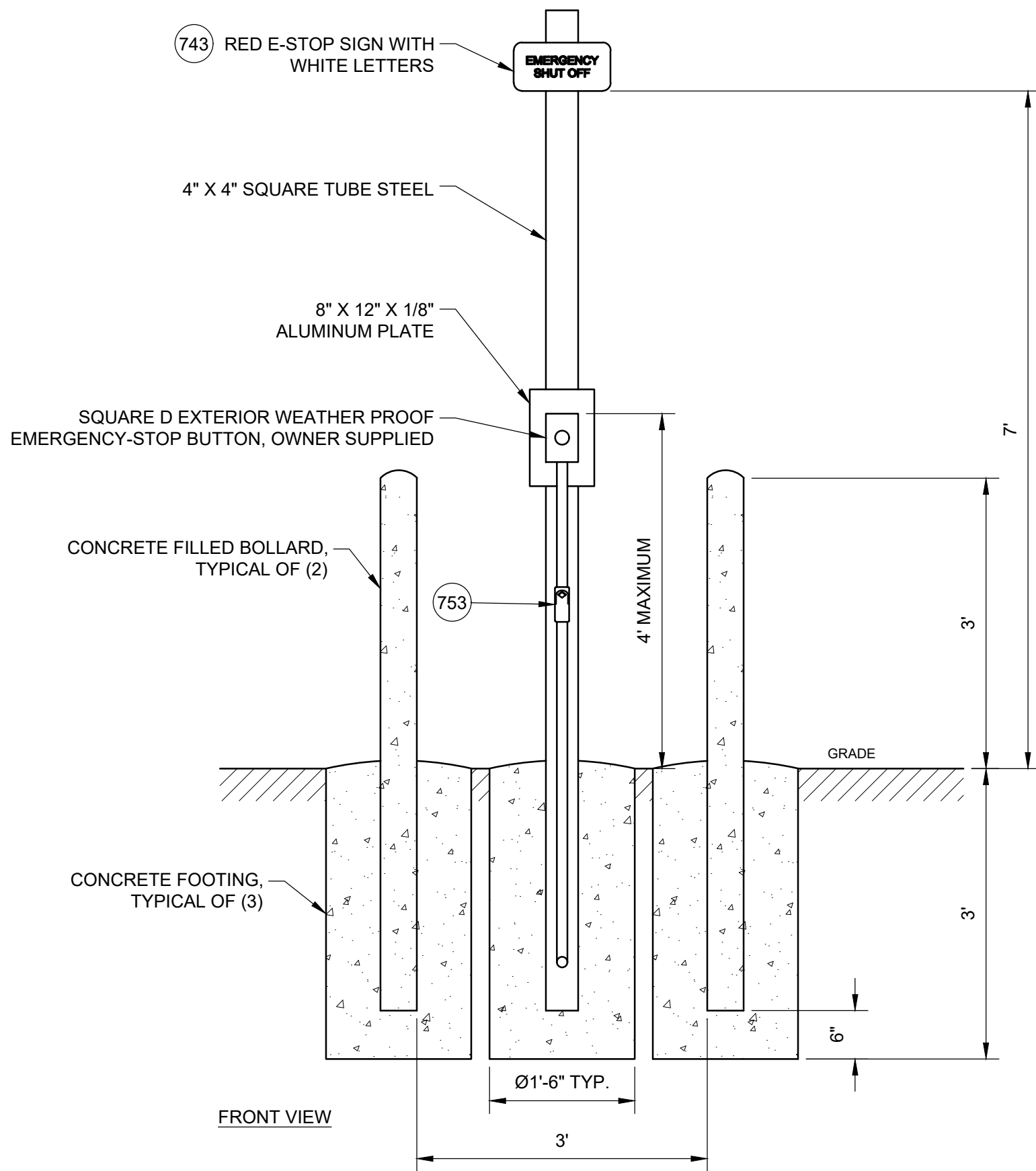
SCALE: 1" = 1'-0"	DATE: 11/15/2023
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DRAWING NO.
T-6



B MANIFOLD TESTING SYSTEM
SCALE: 6" = 1'-0"



C REMOTE EMERGENCY STOP DETAIL
SCALE: 3/4" = 1'-0"

REVISIONS				
11/15/23	ERK			
11/15/23	BNH			
2/22/24	BNH			

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DIAMOND Z
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TANK LID PAINTING, MANIFOLD
TESTING AND RMEOTE E-STOP DETAILS

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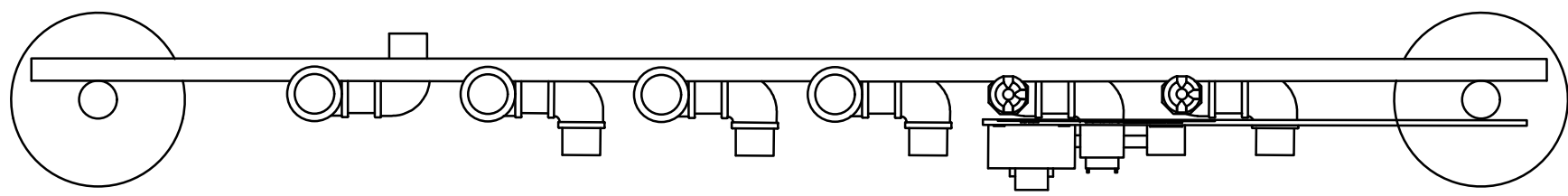
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DATE:
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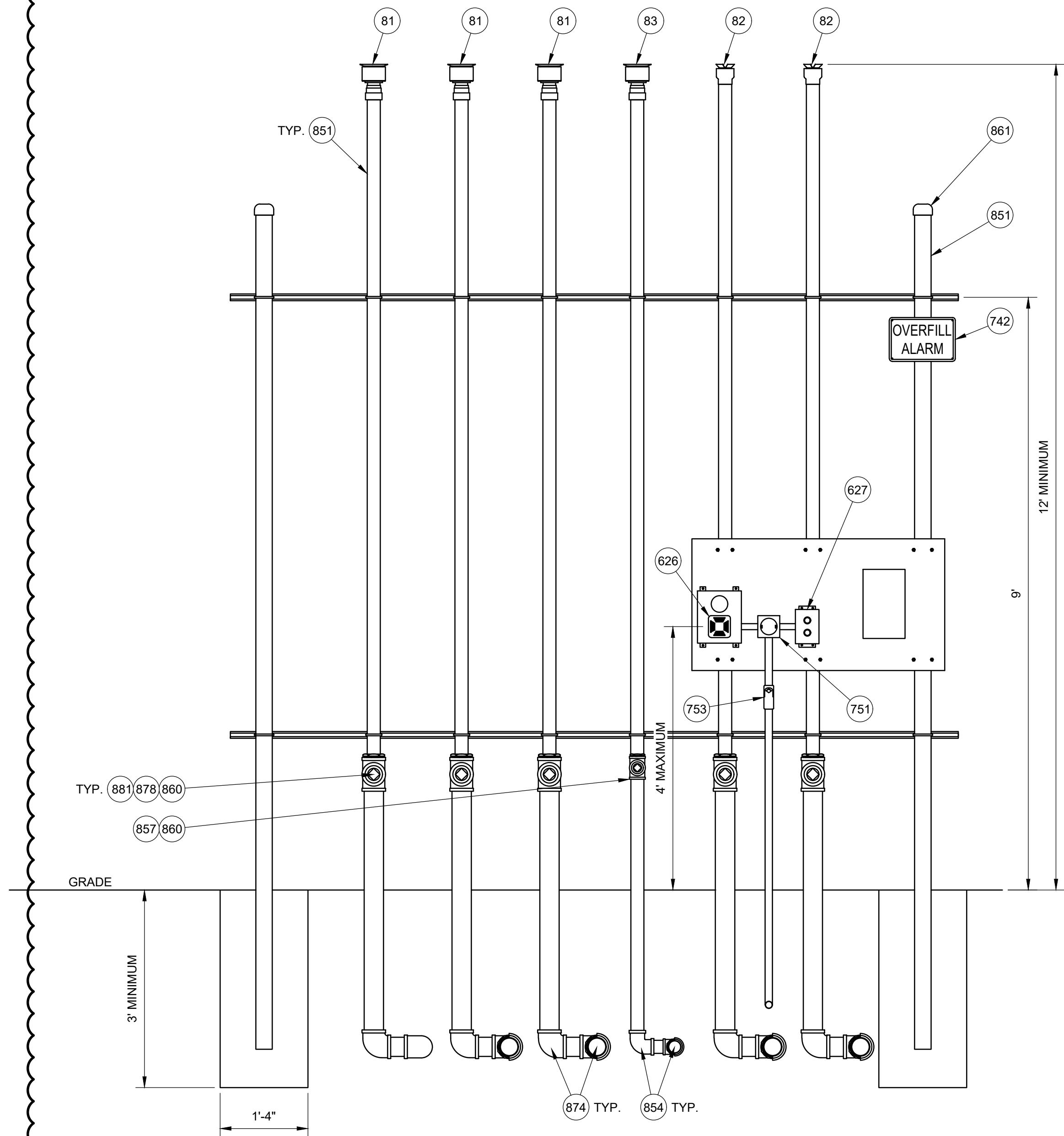
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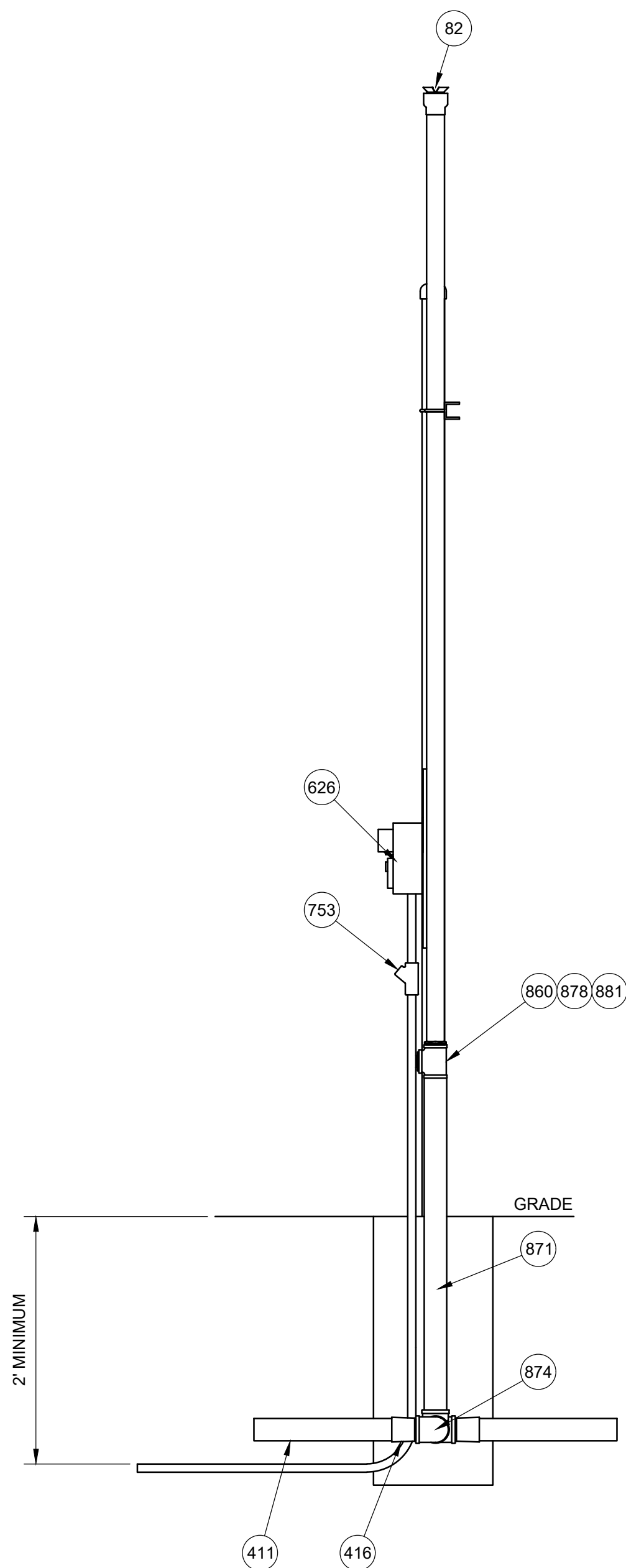
DRAWING NO.
T-7



A VENT RISER - PLAN
SCALE: 3/4" = 1'-0"



B VENT RISER - FRONT ELEVATION
SCALE: 3/4" = 1'-0"

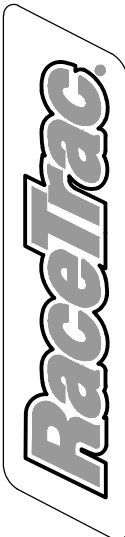


C VENT RISER - SIDE ELEVATION
SCALE: 3/4" = 1'-0"

NOTES:

- SEE CIVIL SITE PLANS FOR VENT RISER LOCATION
- PRIME AND WRAP ALL BURIED STEEL
- SLOPE VENT PIPING BACK TO TANKS MINIMUM 1/8" PER 1'-0"
- PAINT ALL RISERS, AND BRACING BLACK
- TYPICAL VENT RISER SHOWN, SEE PIPING PLAN FOR EXACT CONFIGURATION
- PROVIDE GALVANIZED STEEL PLATE AND SECURE PLATE TO THE VENT RISERS WITH U-BOLTS
- MOUNT FILL LID CODING PLACARD TO THE STEEL PLATE WITH TECH SCREWS

REVISIONS				
NO.	DATE	BY	CHKD	APP'D
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2	11/15/23	BNH		
3	2/22/24	BNH		
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RETAIL AND TRUCK DIESEL STAND
ALONE VENT RISER DETAILS

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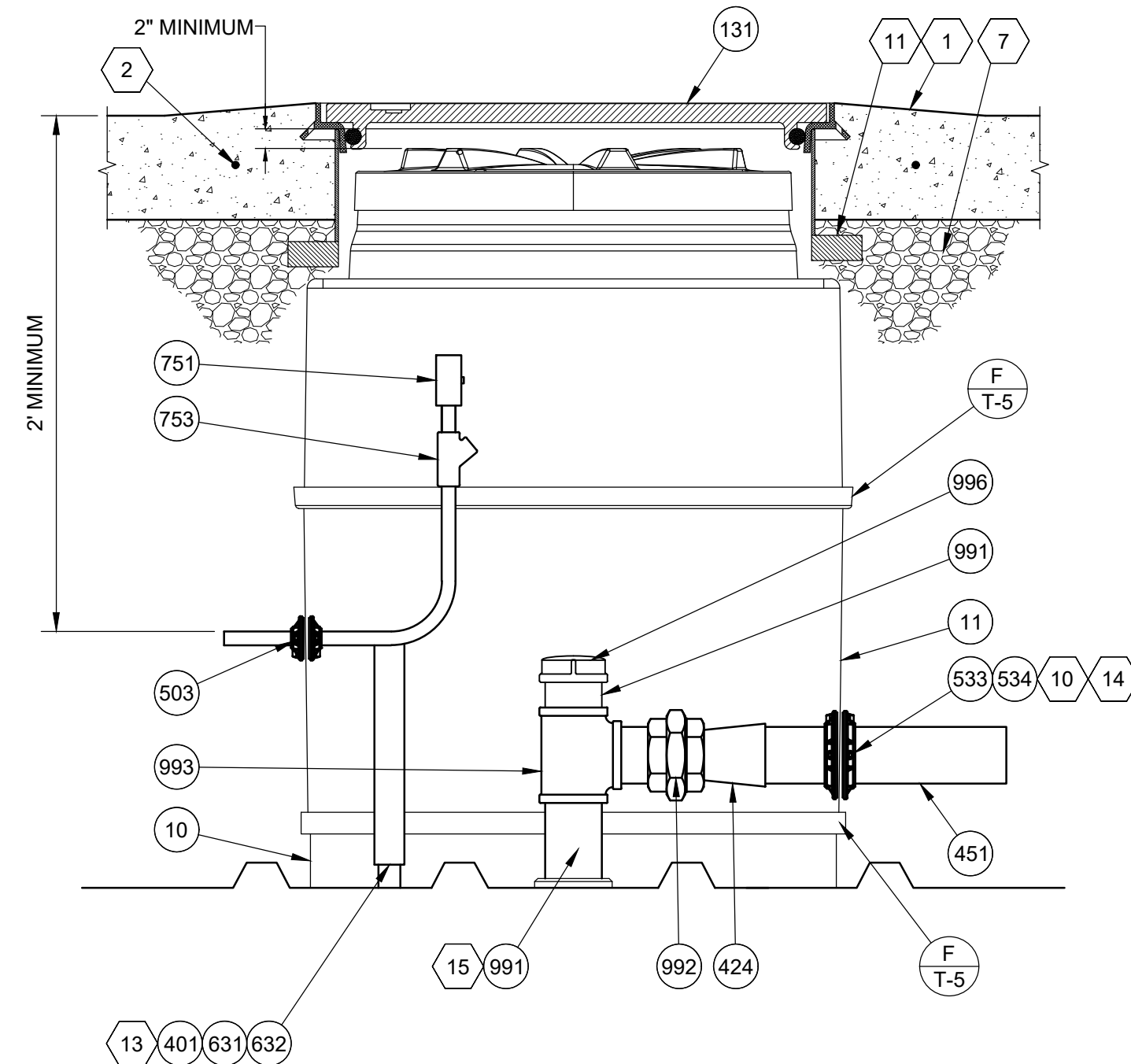
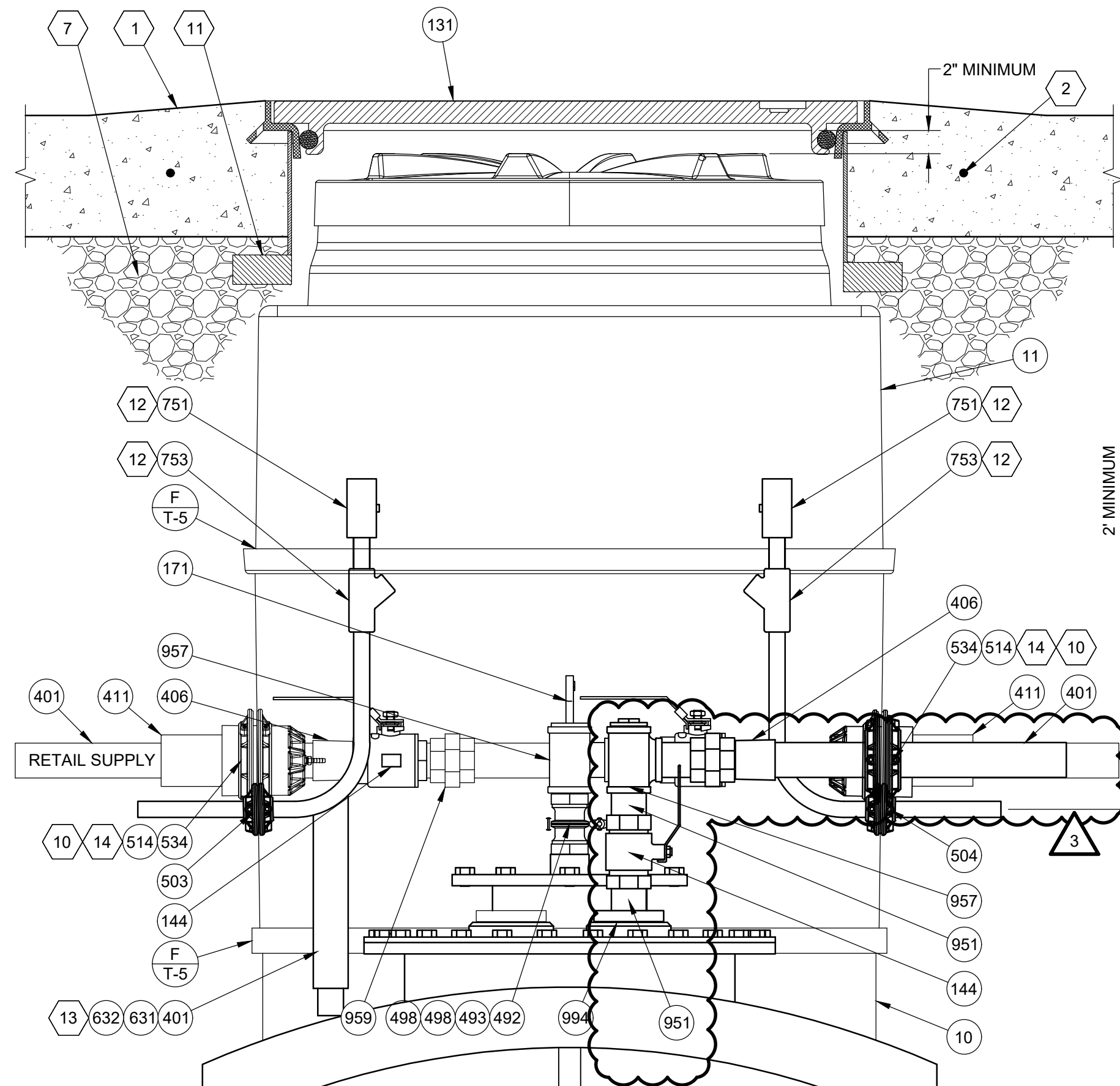
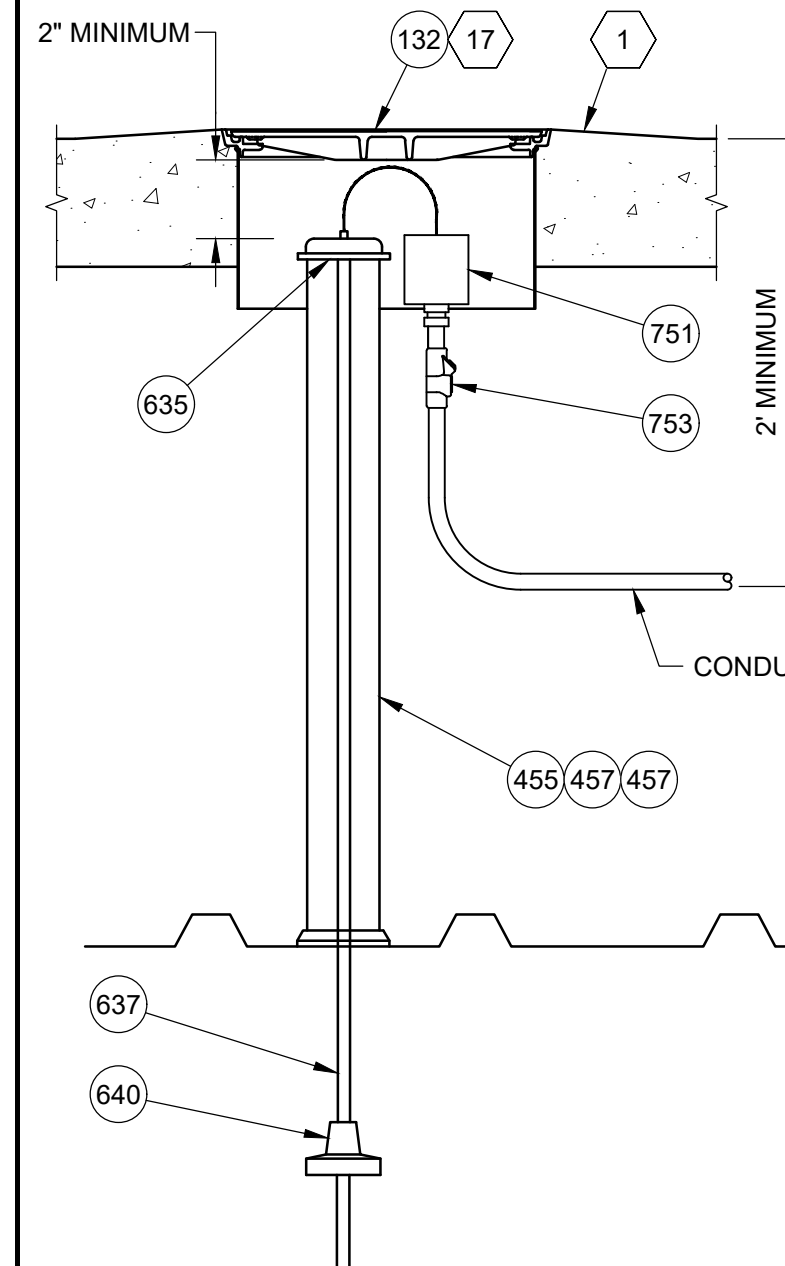
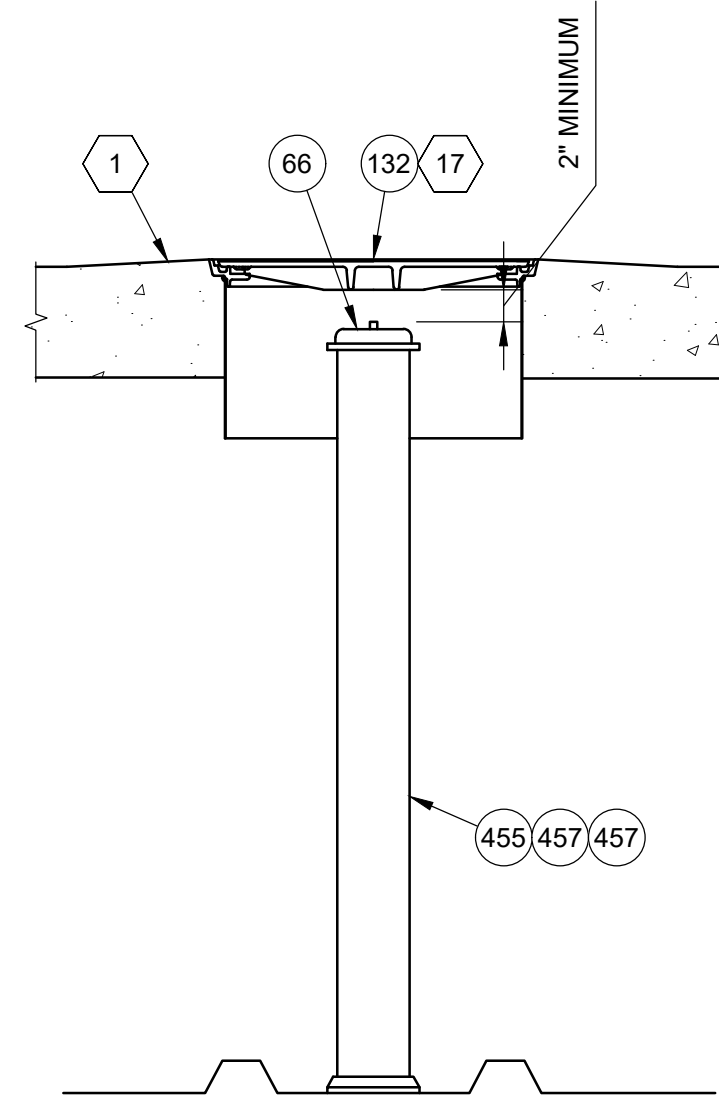
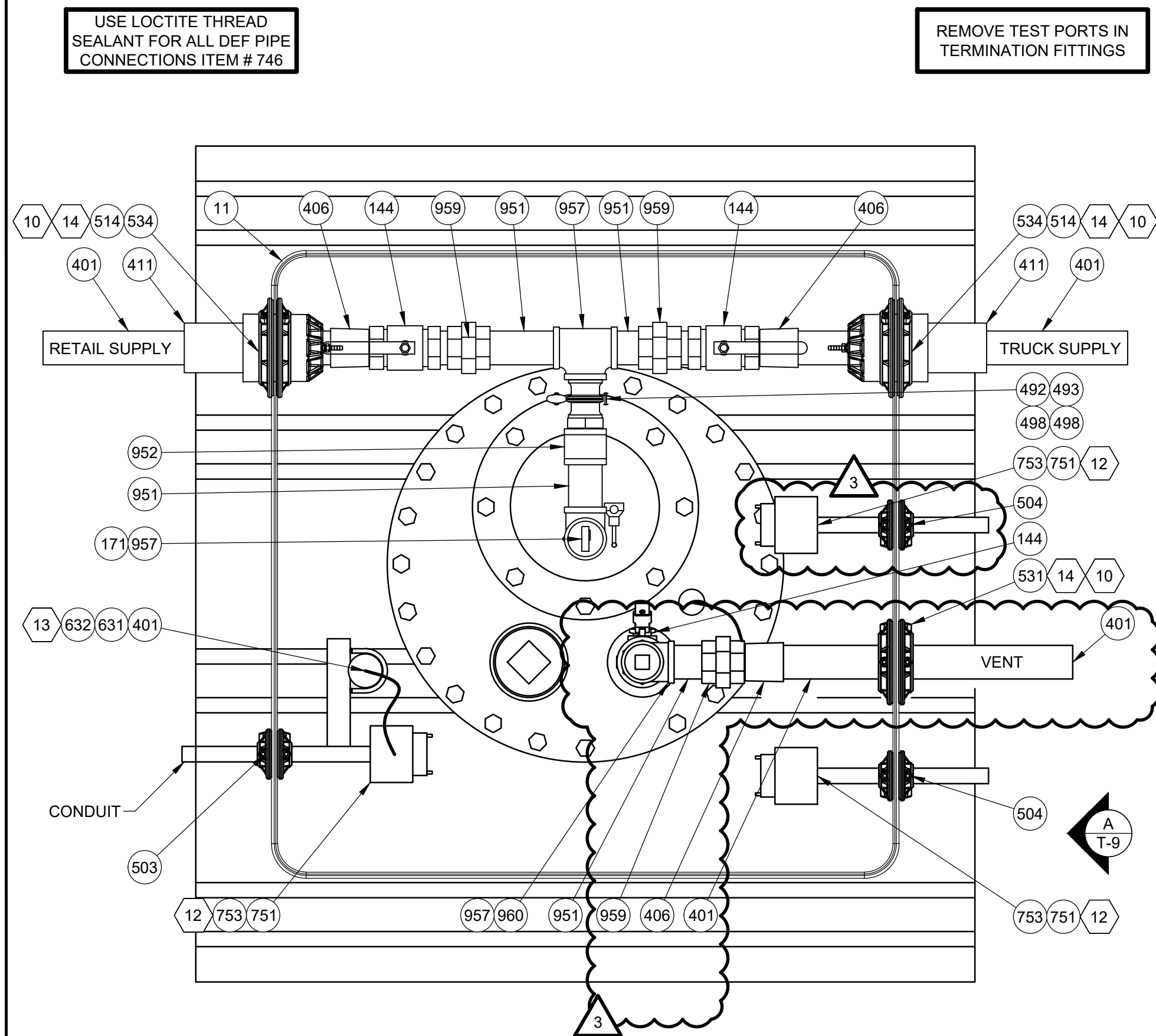
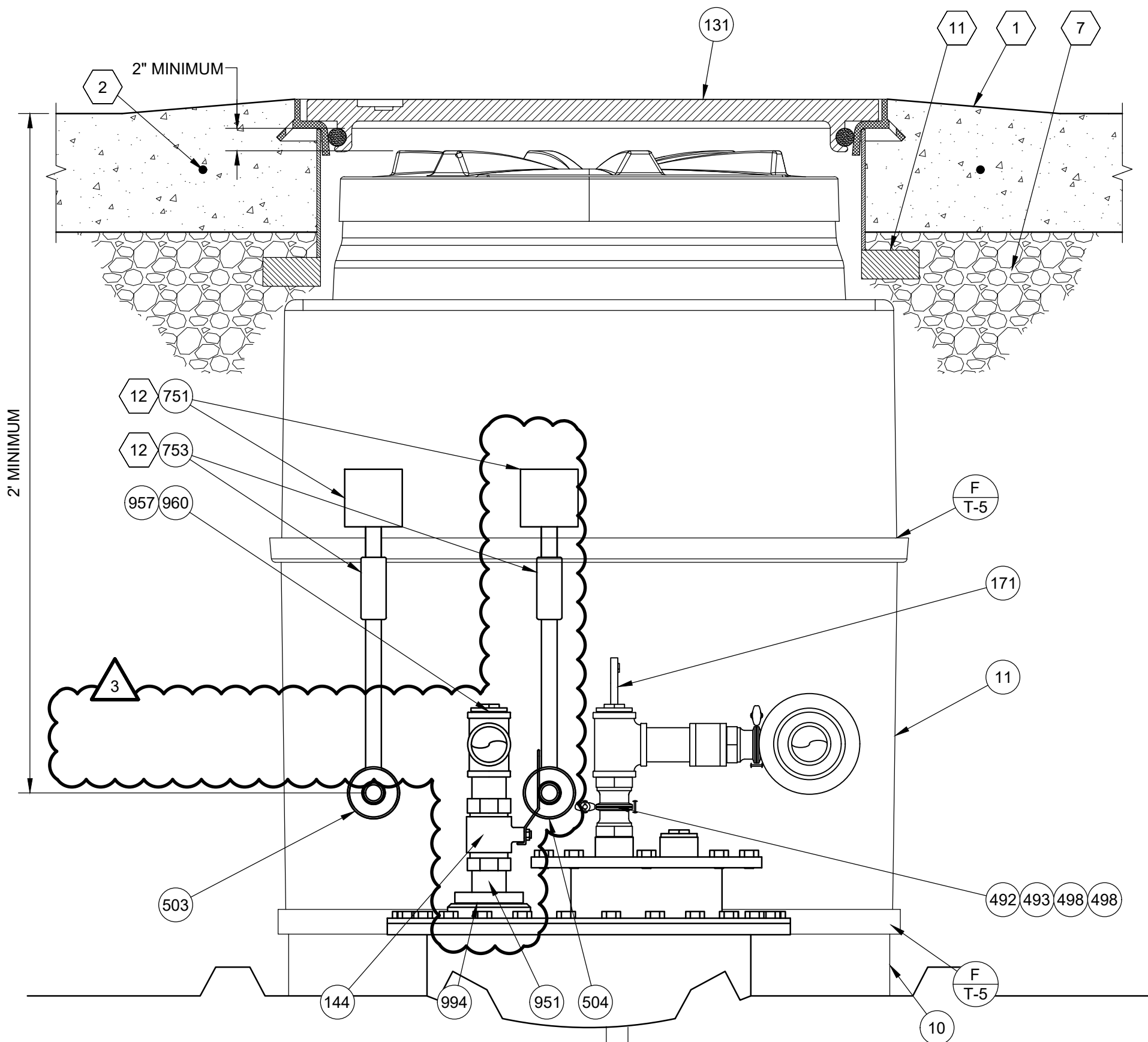
SCALE:
3/4" = 1'-0"

DATE:
11/15/2023

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ERK

PROJECT NO.:
GA-4700

DRAWING NO.
T-8



REVISIONS				
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DEF TANK TOP DETAILS

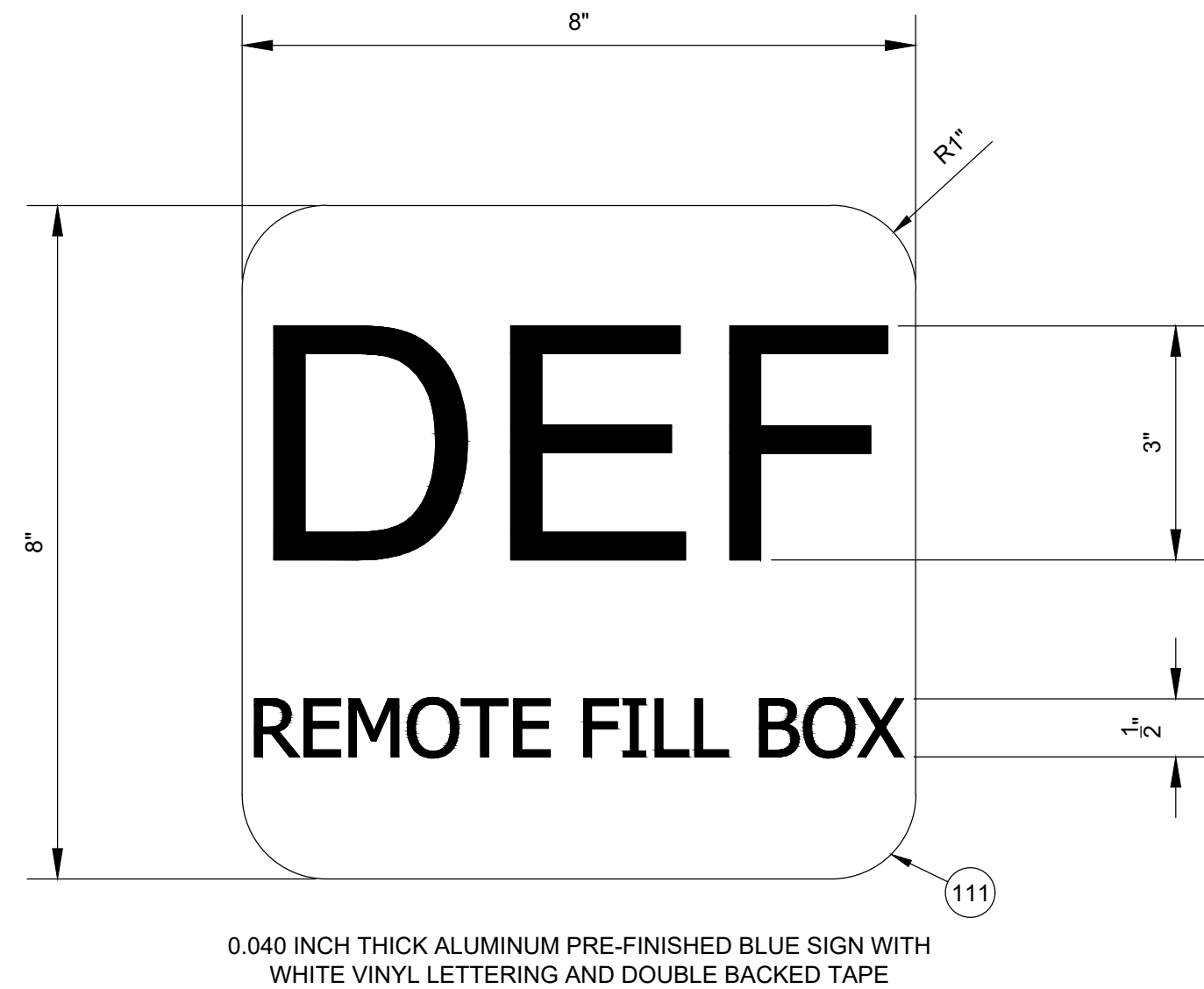
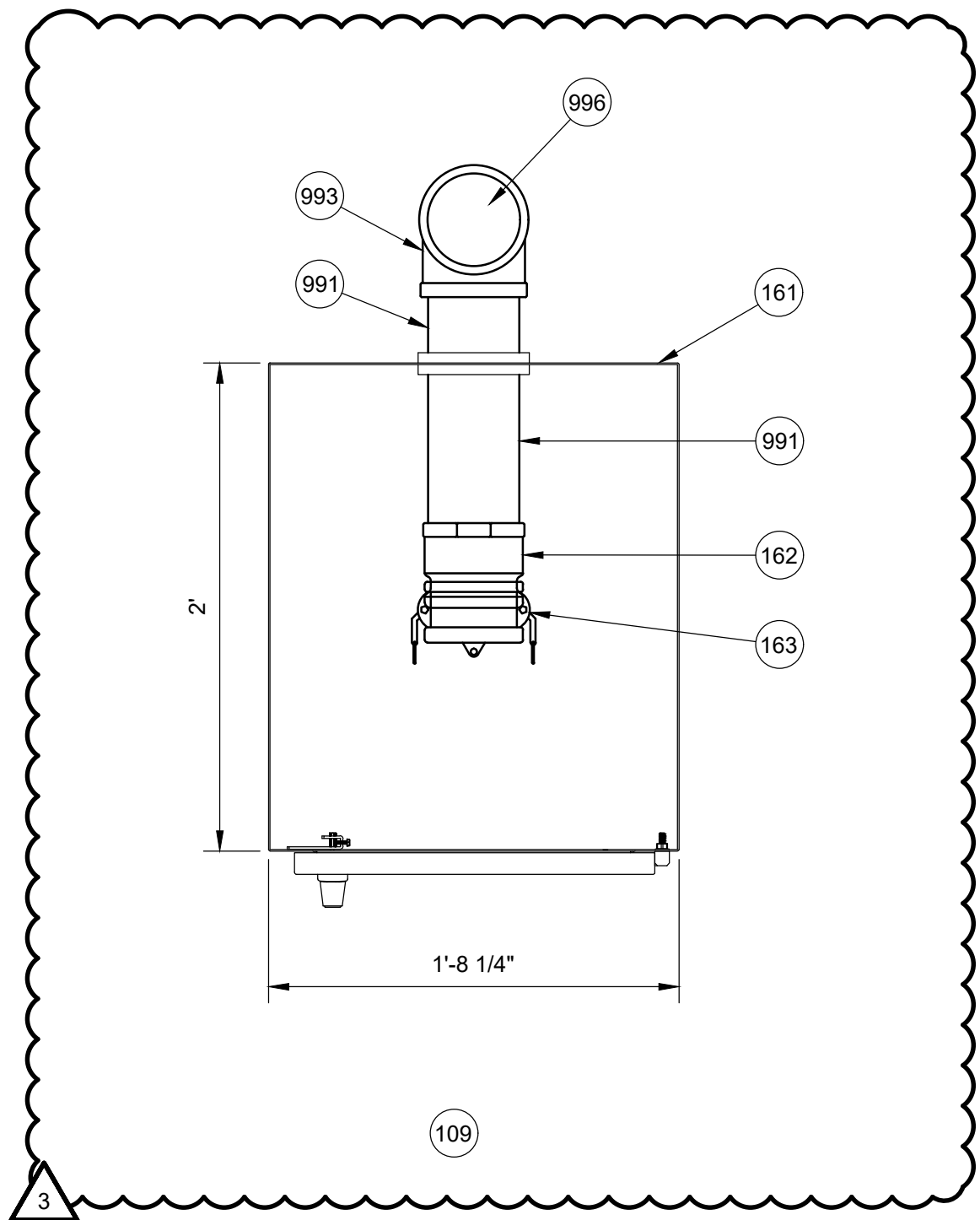
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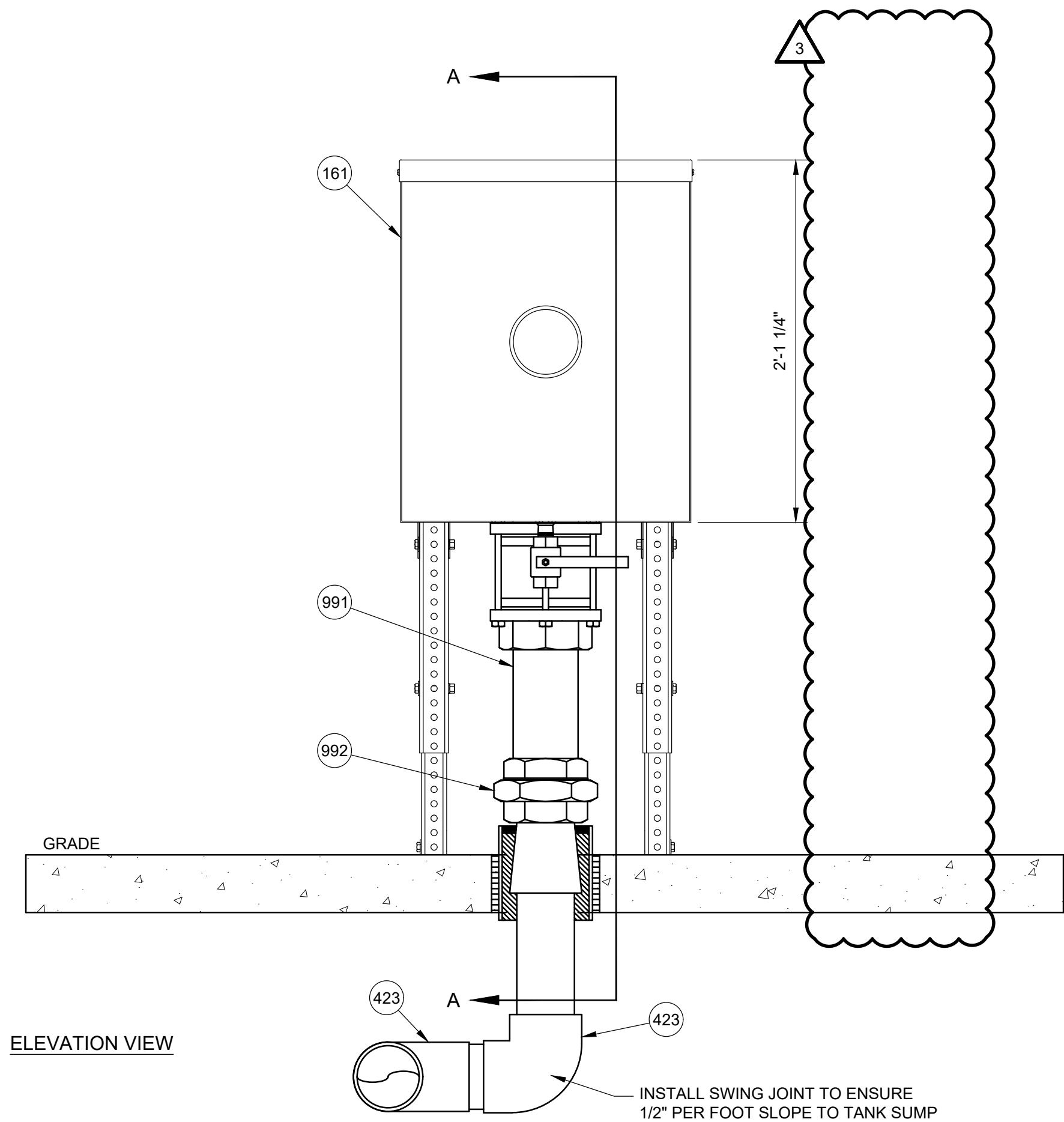
DRAWING NO.
T-9

PLAN
VIEW



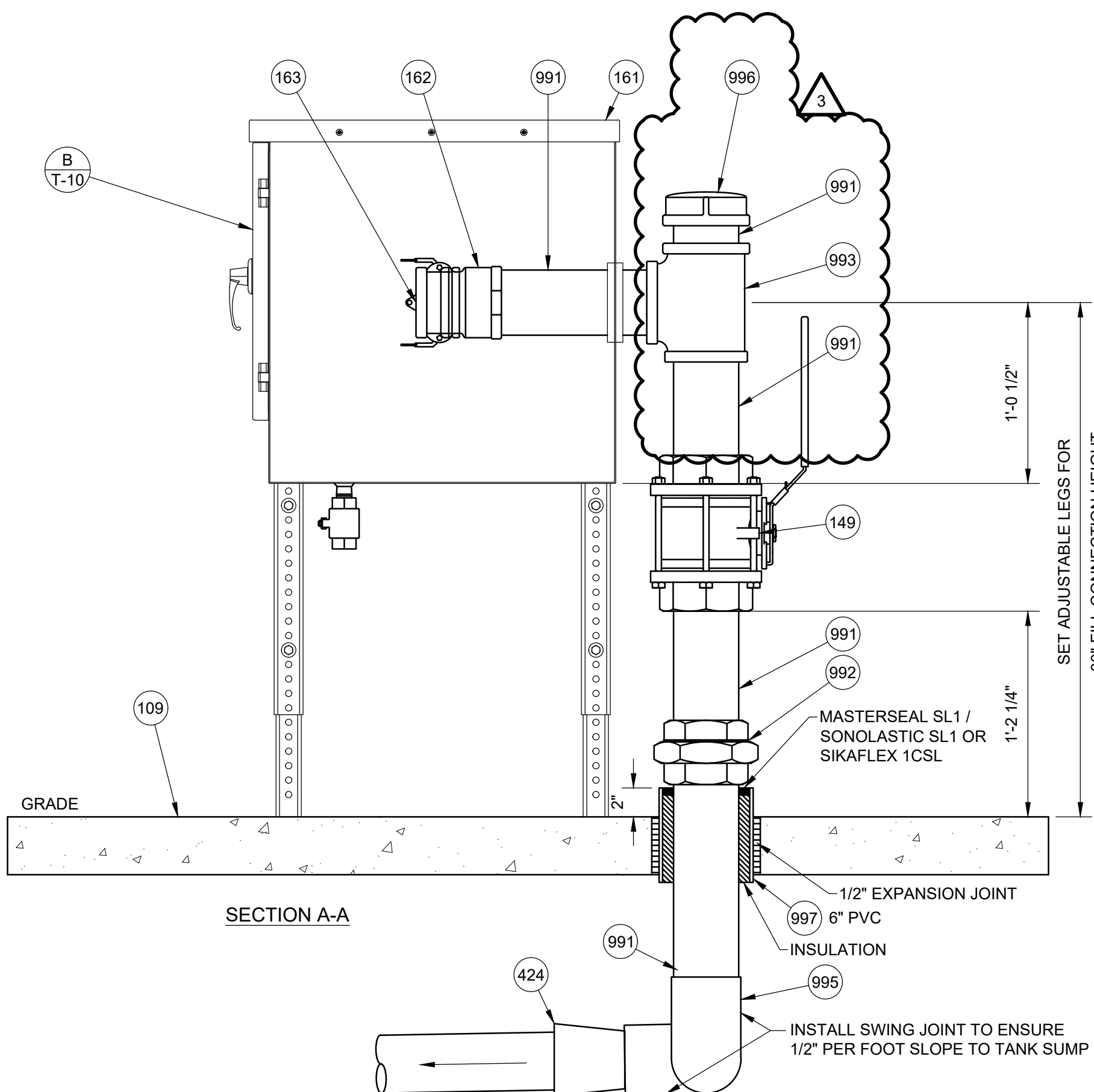
B DEF REMOTE FILL SIGN
SCALE: 6" = 1'-0"

USE LOCTITE THREAD
SEALANT FOR ALL DEF PIPE
CONNECTIONS ITEM # 746

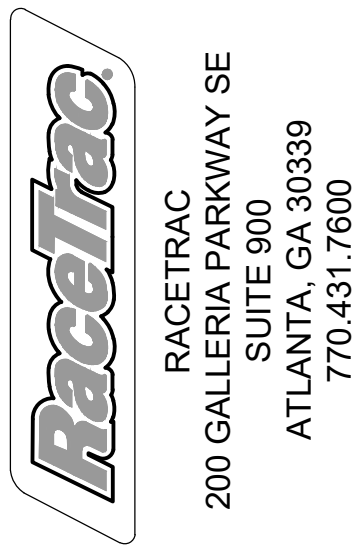


ELEVATION VIEW

A REMOTE FILL BOX
SCALE: 1'-1/2" = 1'-0"



REVISIONS				
NO.	DATE	BY	APP.	DESCRIPTION
1	11/15/23	ERK		OWNER REVIEW SET
2	11/15/23	BNH		BID AND PERMIT SET
3	2/22/24	BNH		REVISED BID AND PERMIT SET
4				
5				
6				



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DEF REMOTE FILL BOX DETAILS

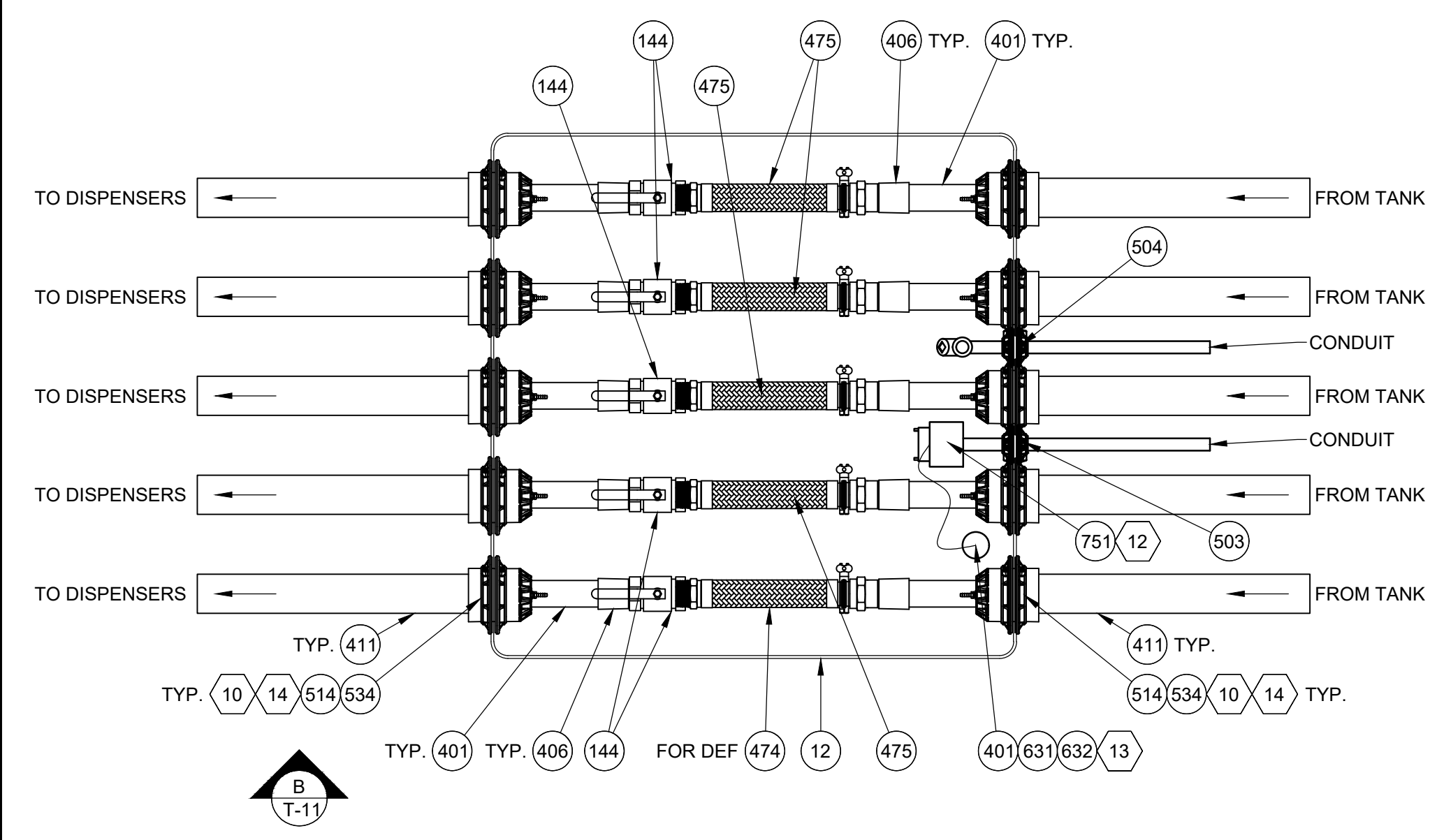
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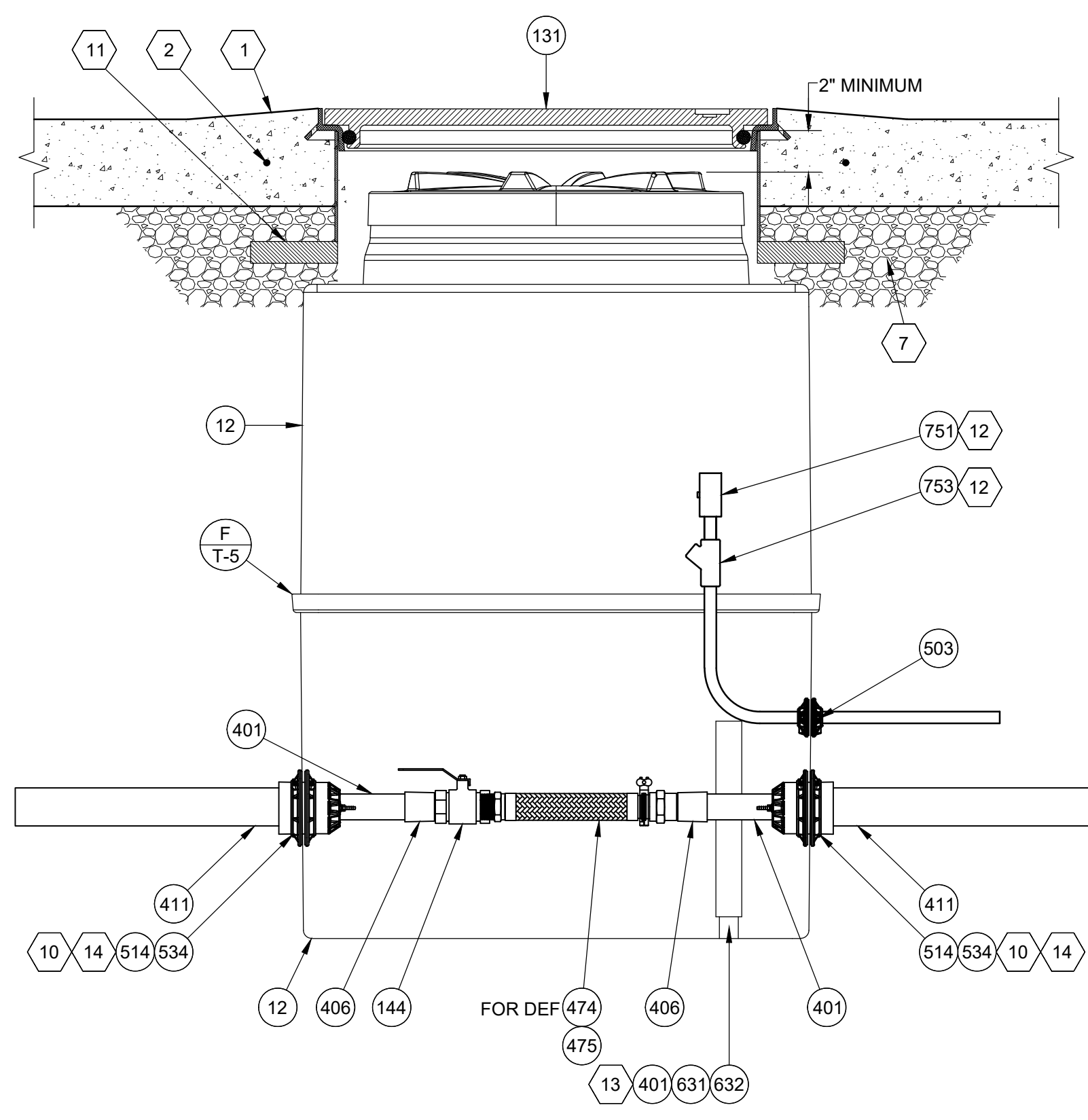
SCALE: AS NOTED	DATE: 11/15/2023
DRAWN BY: ERK	PROJECT NO.: GA-4700

DRAWING NO.
T-10

SEE SHEET T-2
FOR NOTES



A TRANSITION SUMP - PLAN VIEW
SCALE: 1" = 1'-0"



B TRANSITION SUMP - ELEVATION
SCALE: 1" = 1'-0"

REVISIONS				
11/15/23	ERK			
11/15/23	BNH			
2/22/24	BNH			

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RETAIL TRANSITION SUMP DETAILS

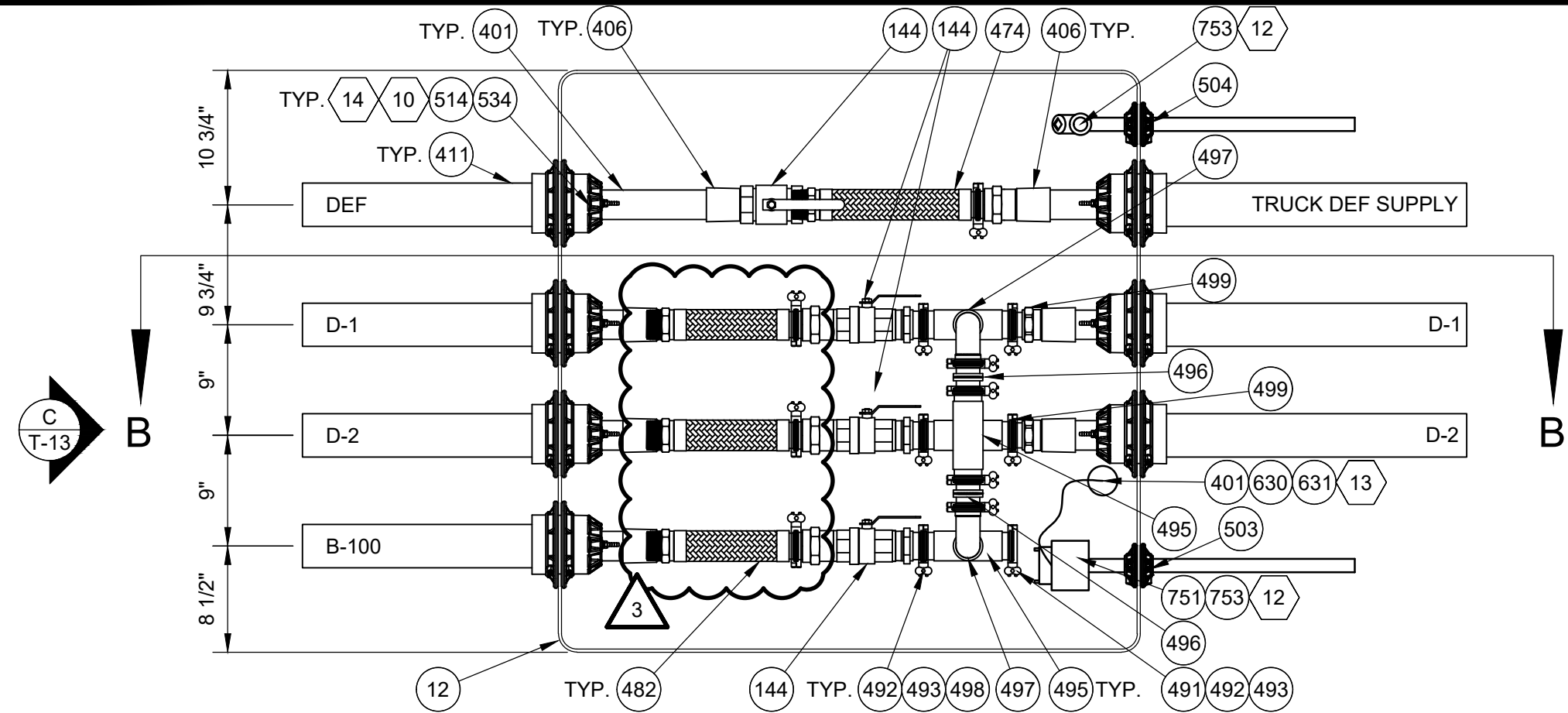
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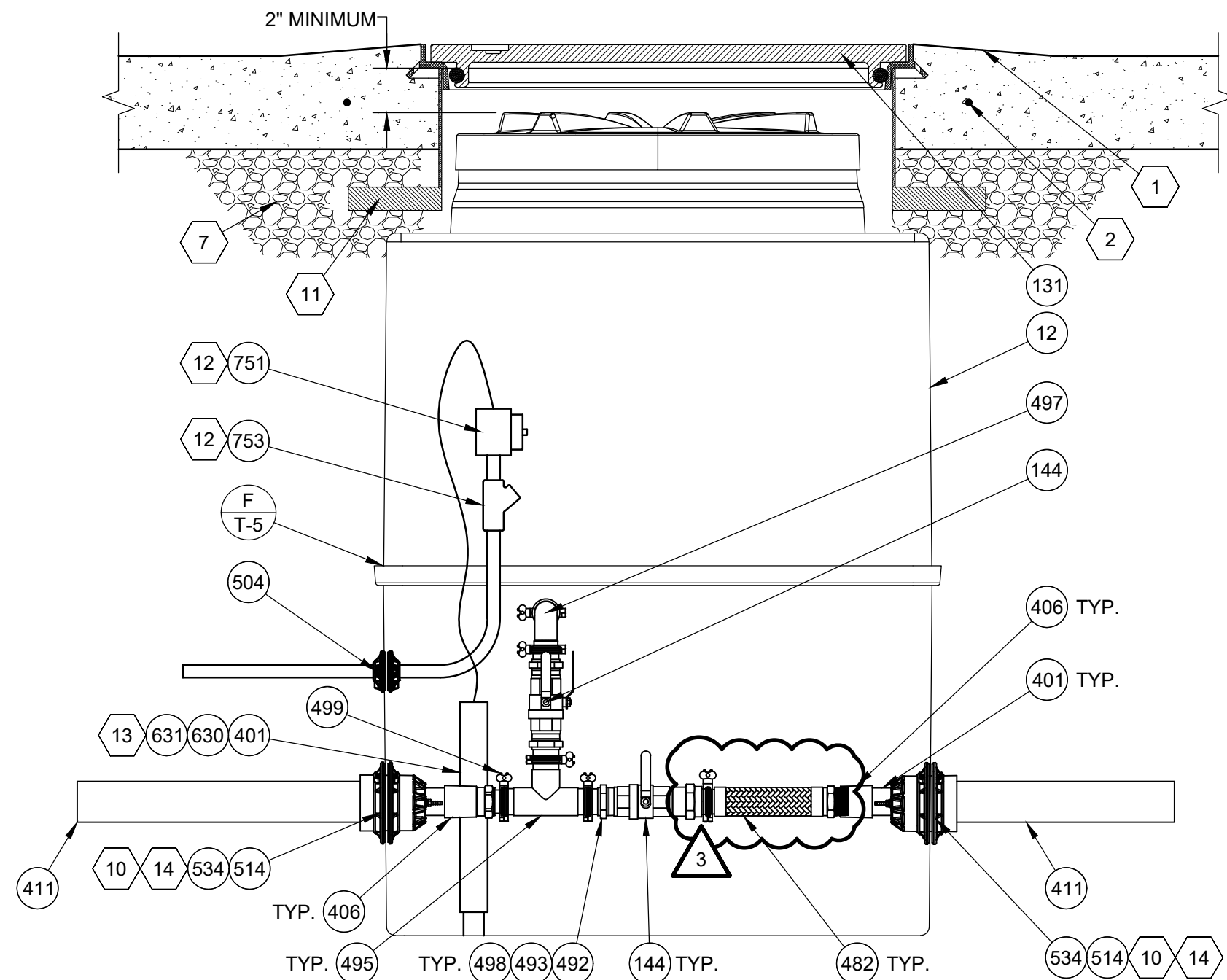
SCALE: 1" = 1'-0"	DATE: 11/15/2023
DRAWN BY: ERK	PROJECT NO.: GA-4700

DRAWING NO.
T-11

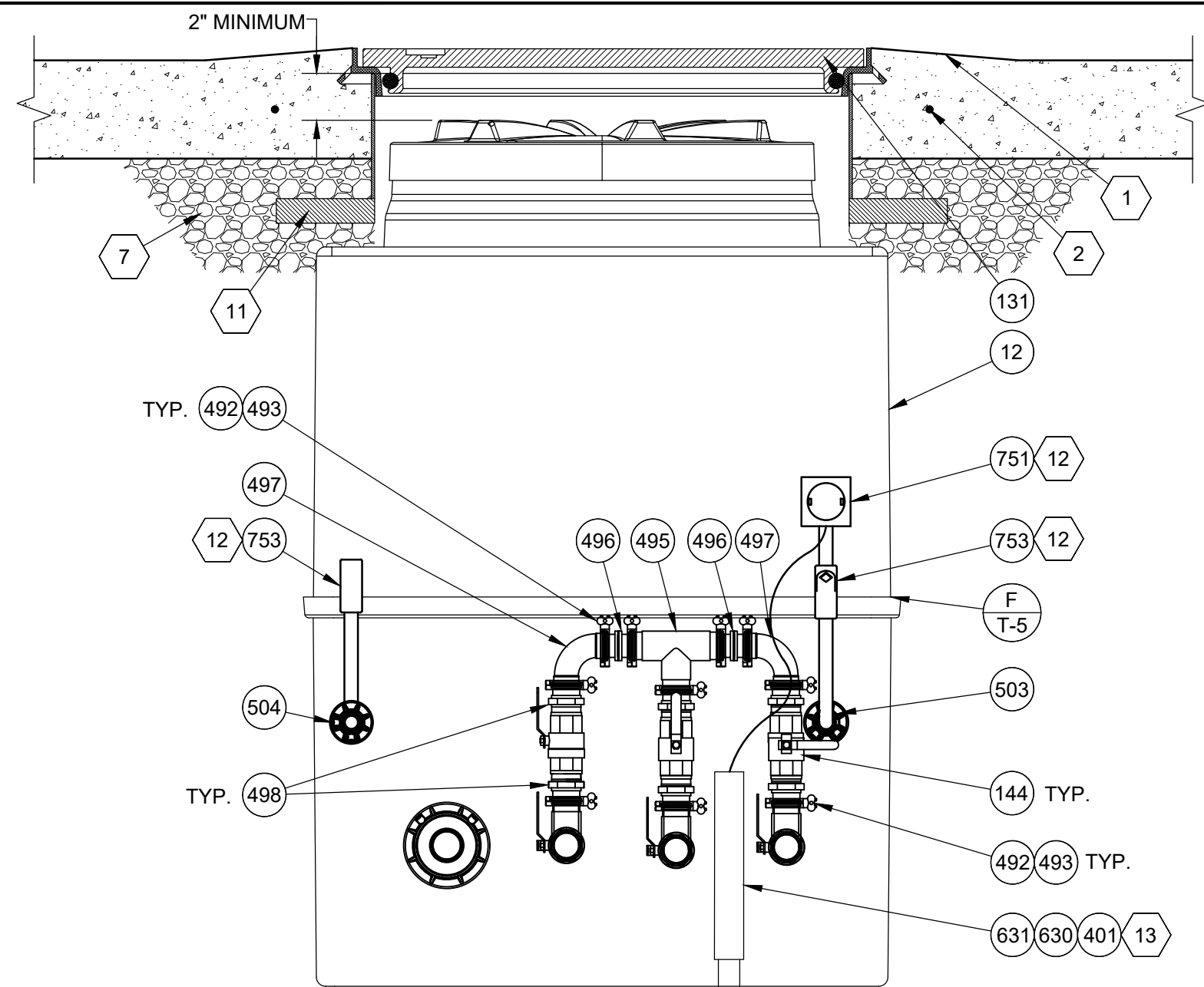
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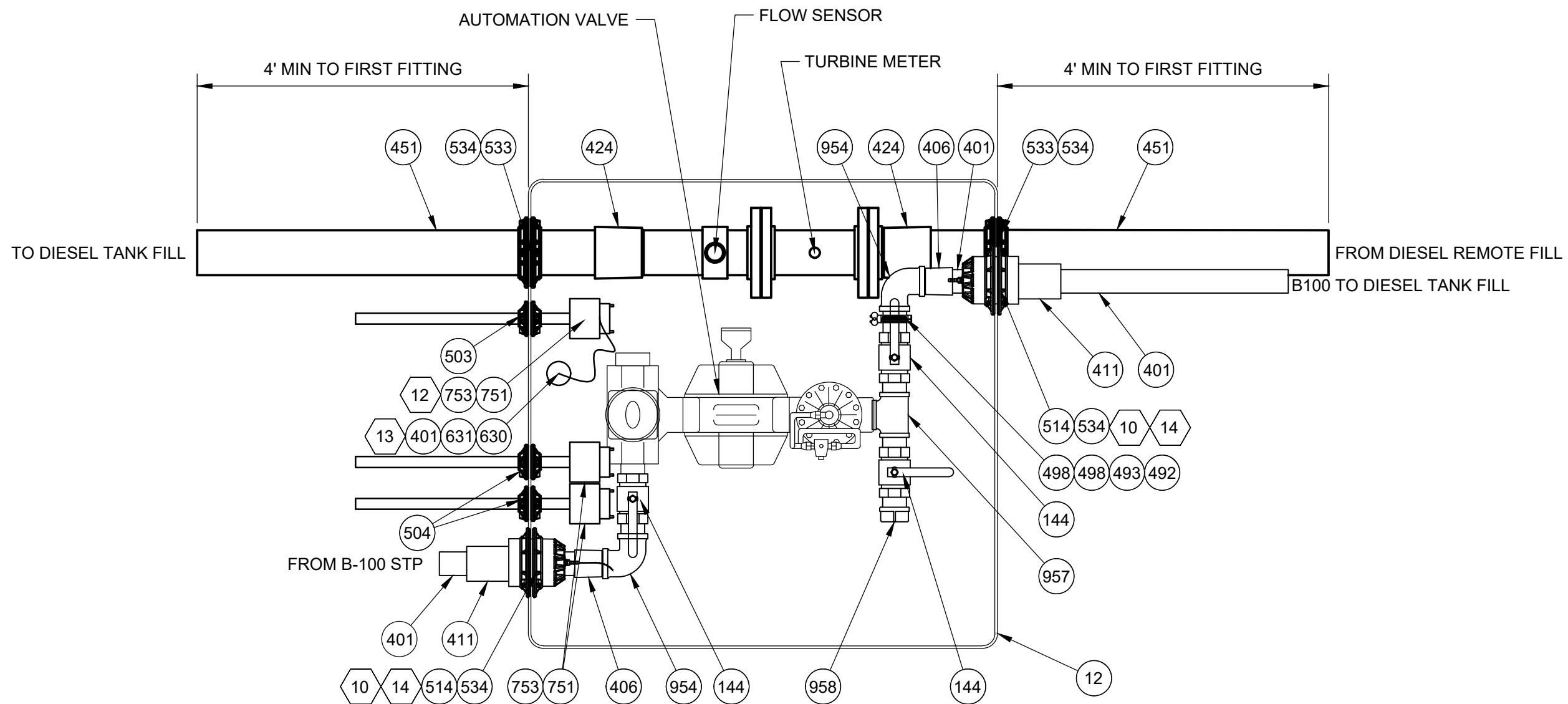
A TRANSITION SUMP - PLAN VIEW
SCALE: 1" = 1'-0"



B TRANSITION SUMP - ELEVATION
SCALE: 1" = 1'-0"



C TRANSITION SUMP - END
SCALE: 1" = 1'-0"



D BIO-BLENDER SUMP - PLAN VIEW
SCALE: 1" = 1'-0"

E NOT USED

SEE SHEET T-2
FOR NOTES

REVISIONS			
ERK	BNH	BNH	
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DIAMOND Z
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BIO-BLENDING AND
TRUCK TRANSITION SUMP DETAILS

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1" = 1'-0"

DATE:
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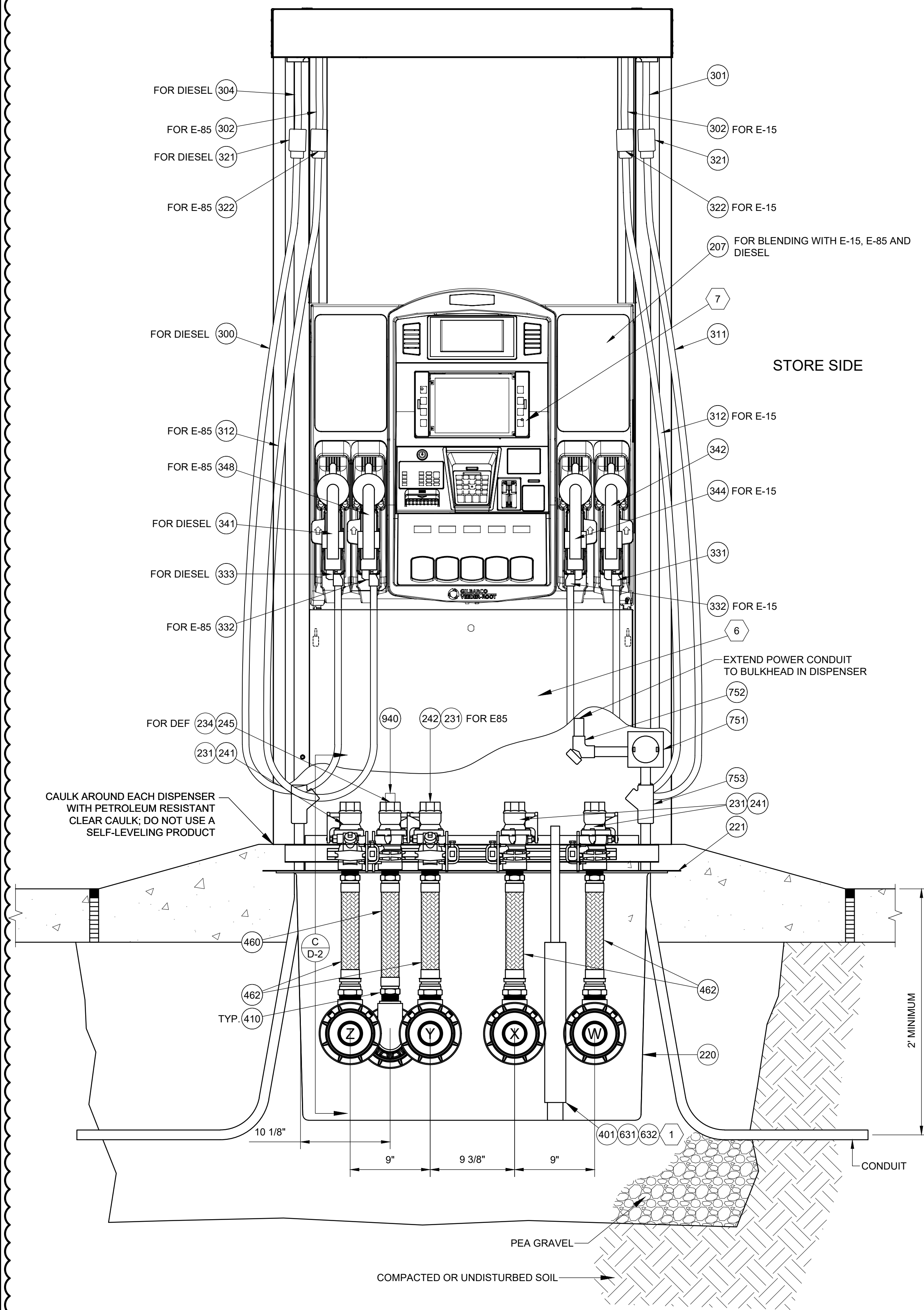
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DRAWING NO.
T-13

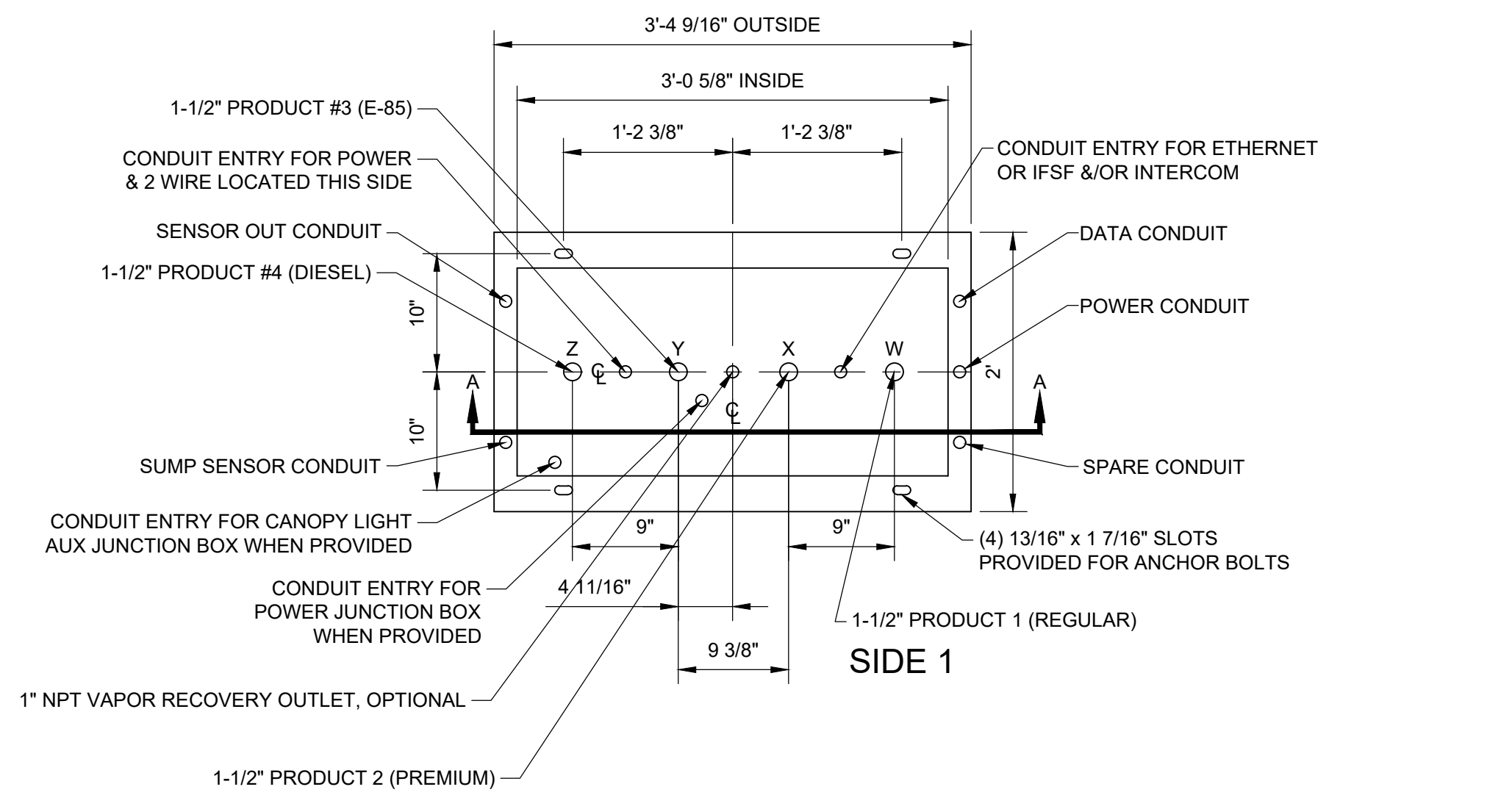


D EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"

DRAWING NO.
D-1



A **SUMP FRONT SECTION A-A**
SCALE: 1-1/2" = 1'-0"



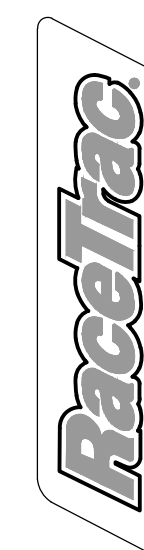
B MOUNTING DIAGRAM

CONTRACTOR TO VERIFY LATEST
PRODUCT CONNECTION DIAGRAM
WITH EQUIPMENT MANUFACTURER

- NOTES:

1. PROVIDE 18" LONG 2" DIAMETER FRP SLEEVE MOUNTED TO THE SUMP FRAME AND SECURED 2" OFF BOTTOM. SENSOR TO BE PLACED INSIDE OF FRP SLEEVE AND REST ON SUMP BOTTOM.
2. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" COMPACTED PEA GRAVEL BEDDING. PIPING SHALL NOT BE SUPPORTED BY BLOCKS, PLANKS, OR OTHER DEBRIS.
3. ALL ENTRIES TO BE PERPENDICULAR TO CONTAINMENT SUMP.
4. ORIENT PIPING TEST BOOTS WITH THE TEST PORT ON THE BOTTOM. AFTER AIR TESTING THE JUMPER TUBES TO REMAIN CONNECTED (OR TEST PORT CLOSED FOR TERMINATING LINES).
5. SLOPE PRODUCT PIPING BACK TO TANKS MINIMUM 1/8" PER 1'-0".
6. INSTALL NEW FILTERS AS PER MATERIALS LIST AFTER DISPENSERS ARE PURGED.
7. THE START-UP CONTRACTOR WILL GIVE ALL DISPENSER KEYS, WIRELESS PROGRAMMING REMOTES, STAND-ALONE BY-PASS JUMPERS, AND PROGRAMMING PIN-PADS TO THE DESIGNATED RACETRAC CM. NONE OF THIS EQUIPMENT WILL BE LEFT INSIDE THE DISPENSER OR RETAINED BY THE START-UP CONTRACTOR.

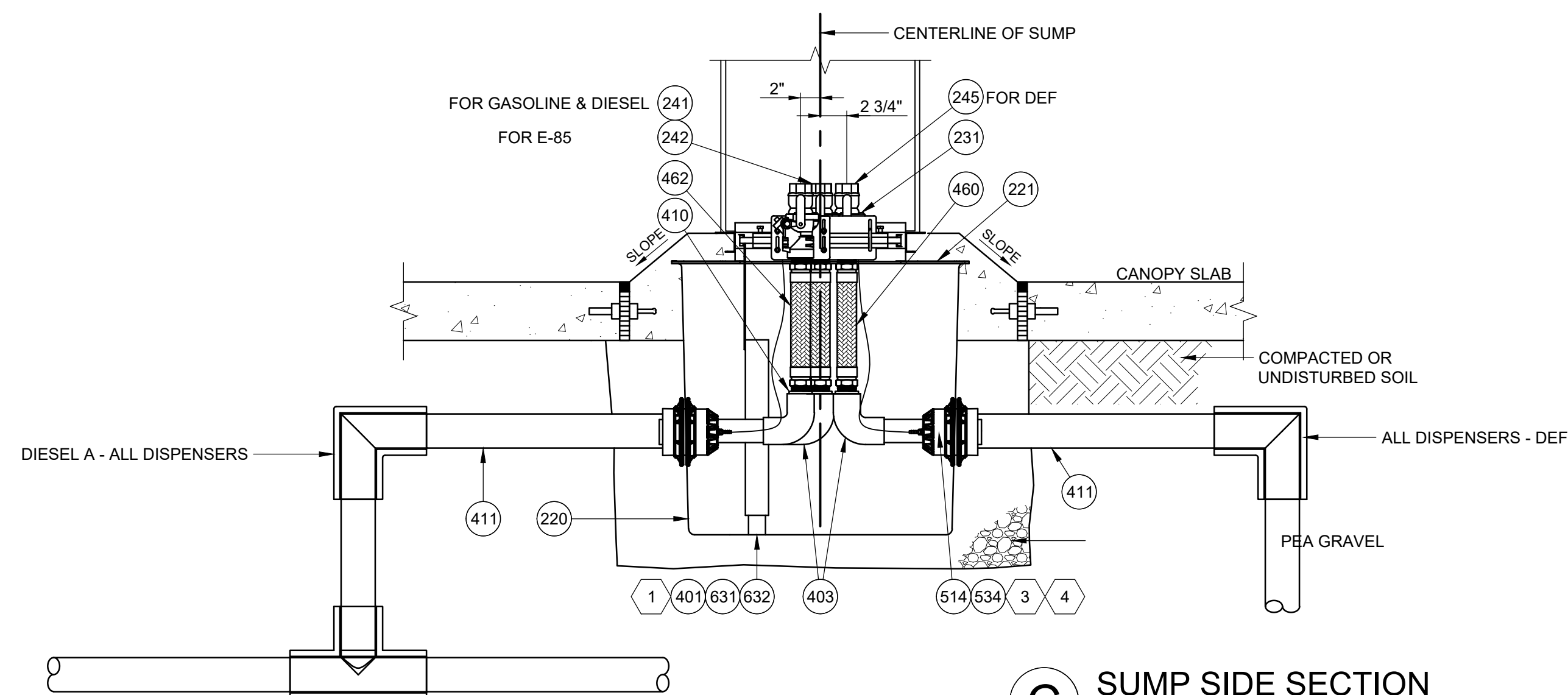
		REVISONS	
OWNER REVIEW SET	11/15/23	ERK	
1	BID AND PERMIT SET	11/15/23	BNH
2	REVISED BID AND PERMIT SET	2/22/24	BNH
3			
4			
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6			



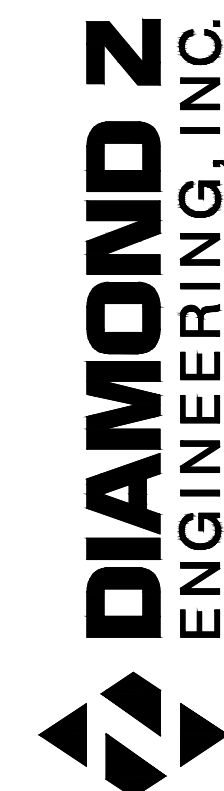
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C SUMP SIDE SECTION
SCALE: 1" = 1'-0"



**GILBARCO ENCORE
RETAIL DISPENSER DETAILS**

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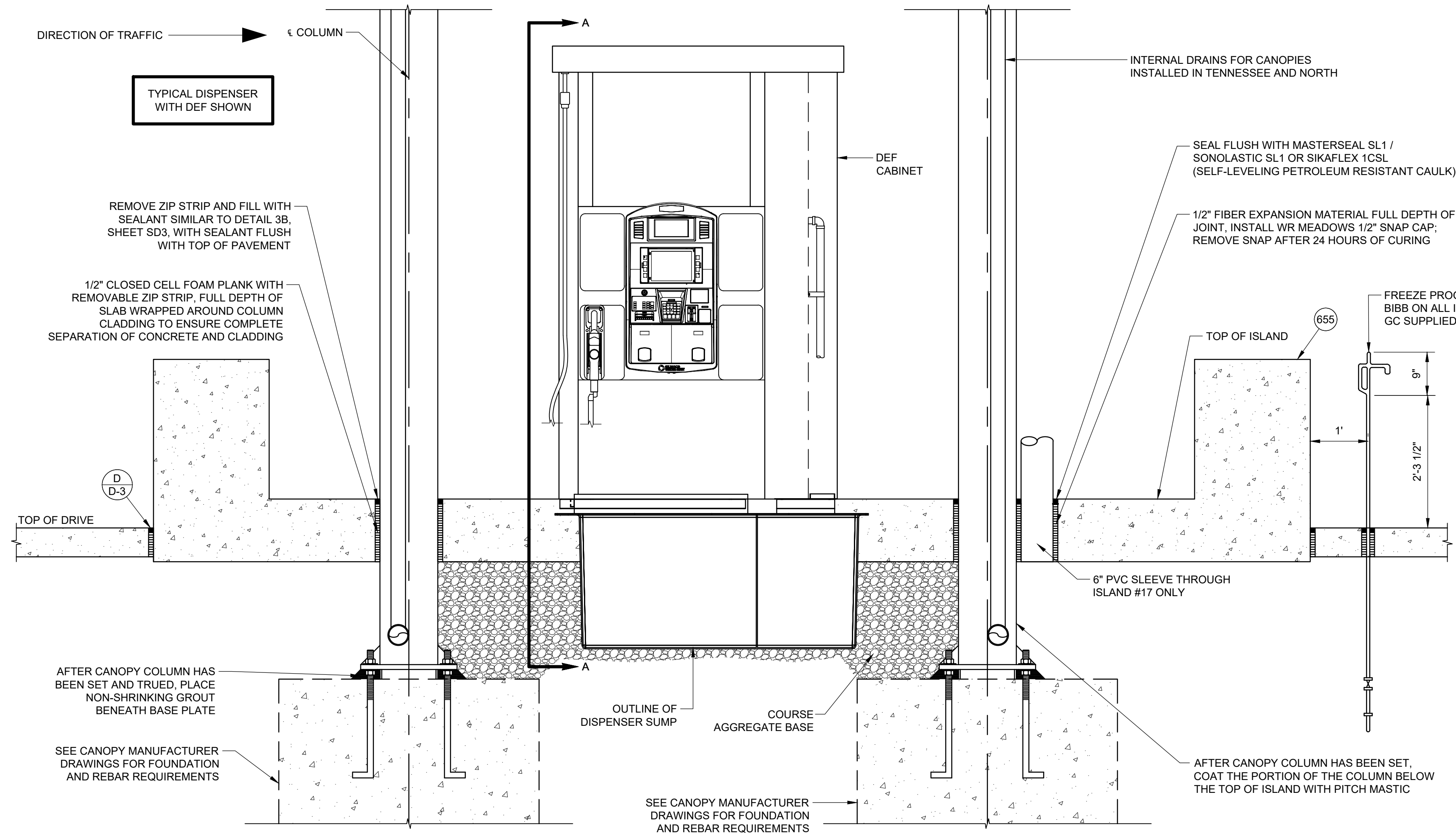
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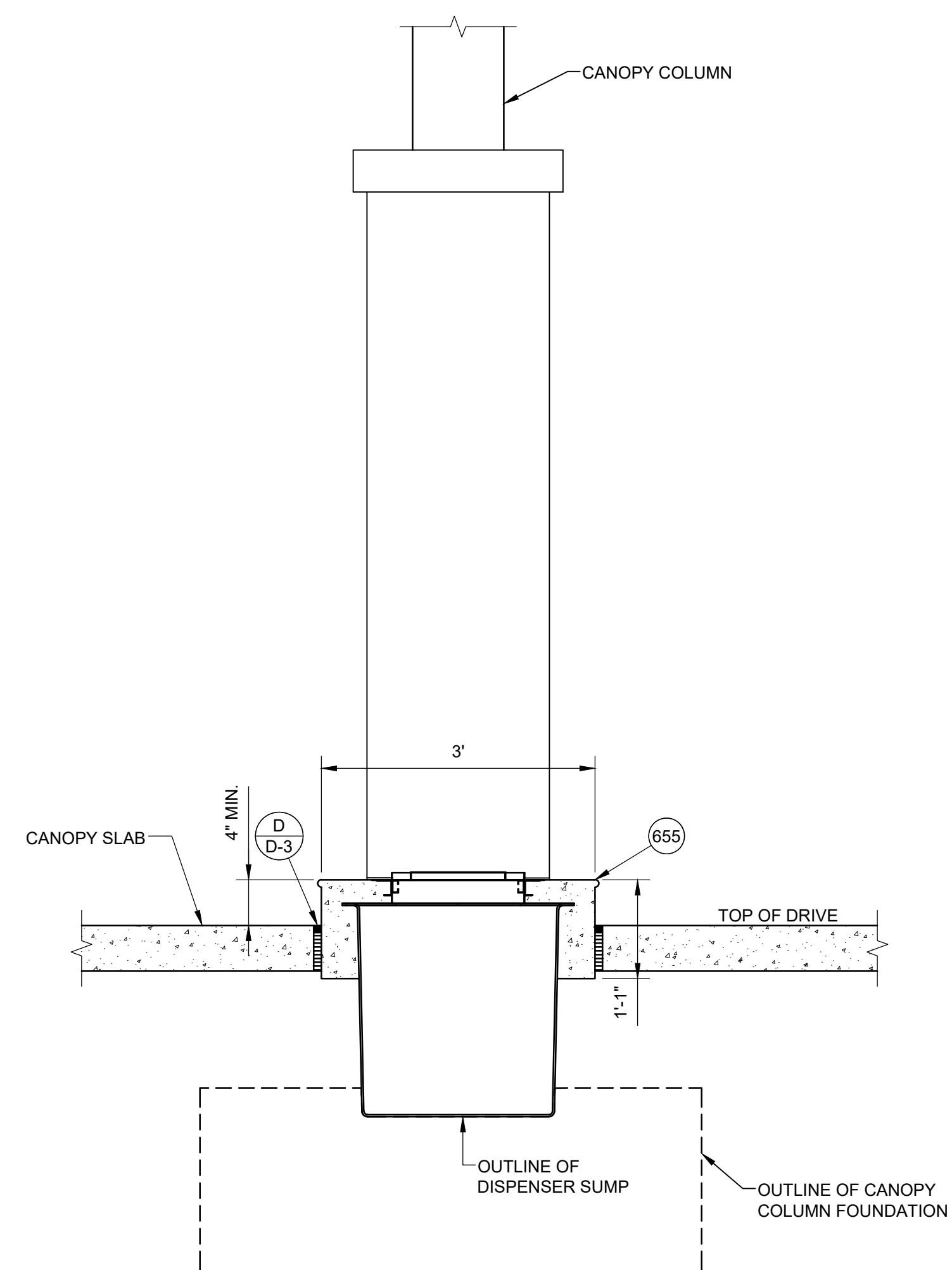
DRAWN BY: ERK	PROJECT NO.: GA-4700
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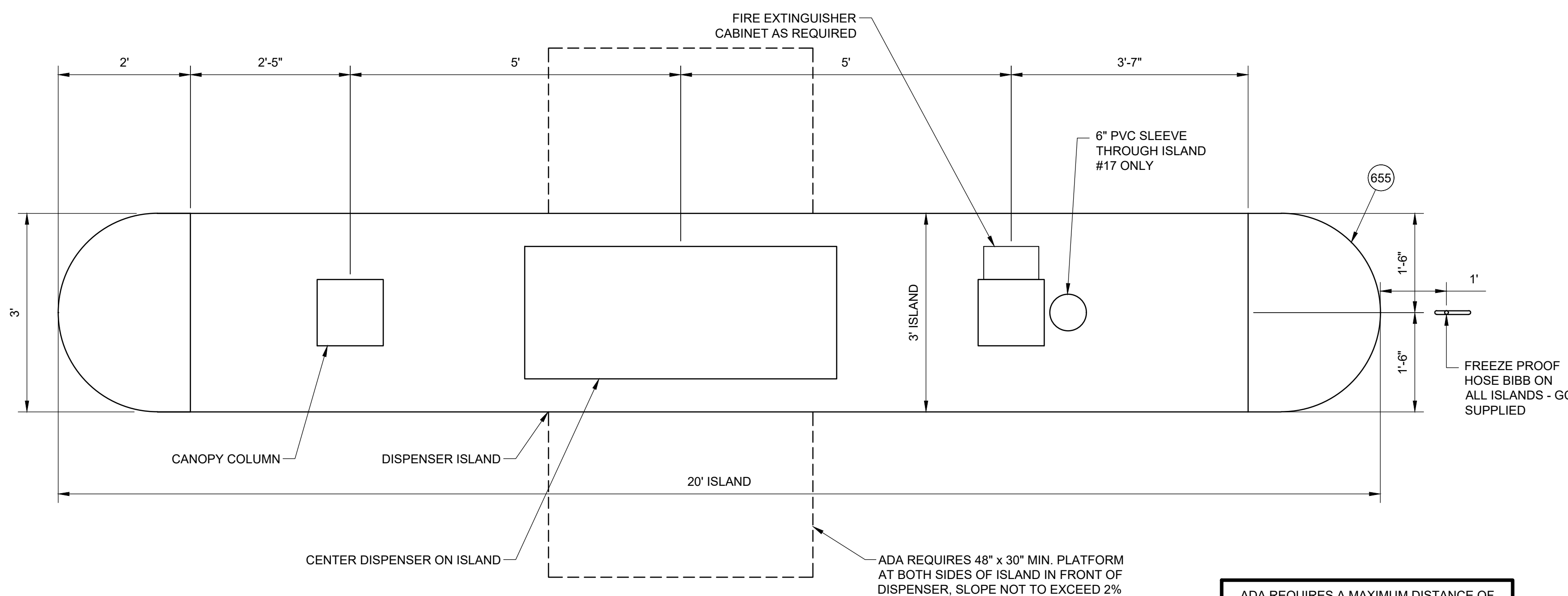
D-2



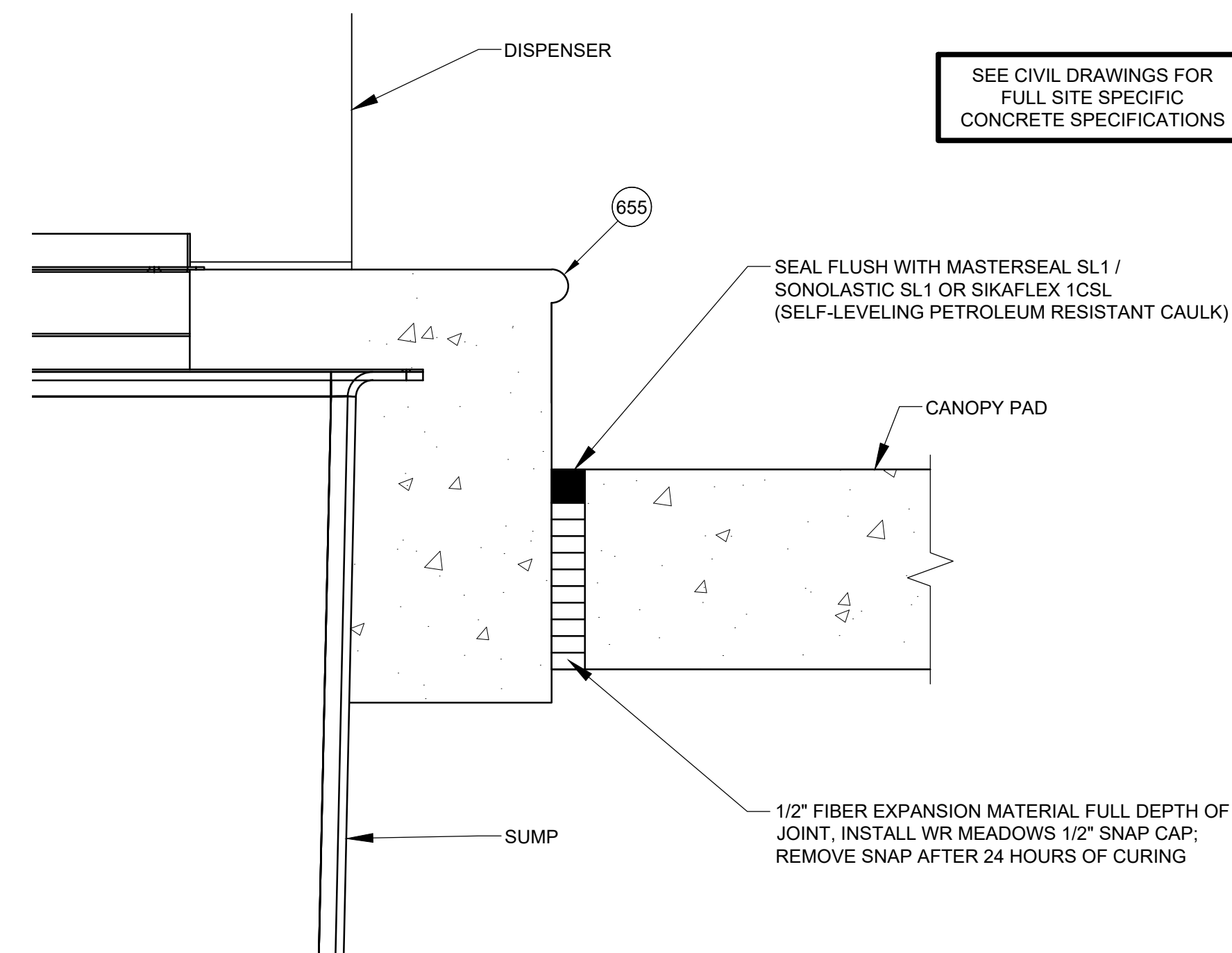
A MASTER/SATELLITE DISPENSER ISLAND - ELEVATION
SCALE: 3/4" = 1'-0"



C SECTION A-A THROUGH ISLAND
SCALE: 3/4" = 1'-0"



B MASTER/SATELLITE DISPENSER ISLAND - PLAN
SCALE: 3/4" = 1'-0"



D EXPANSION JOINT DETAIL
SCALE: 3\"/>

REVISIONS				
NO.	DATE	BY	CHKD	APP'D
1	11/15/23	ERK		
2	11/15/23	BNH		
3	2/22/24	BNH		

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SUITE 900
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770.431.7600

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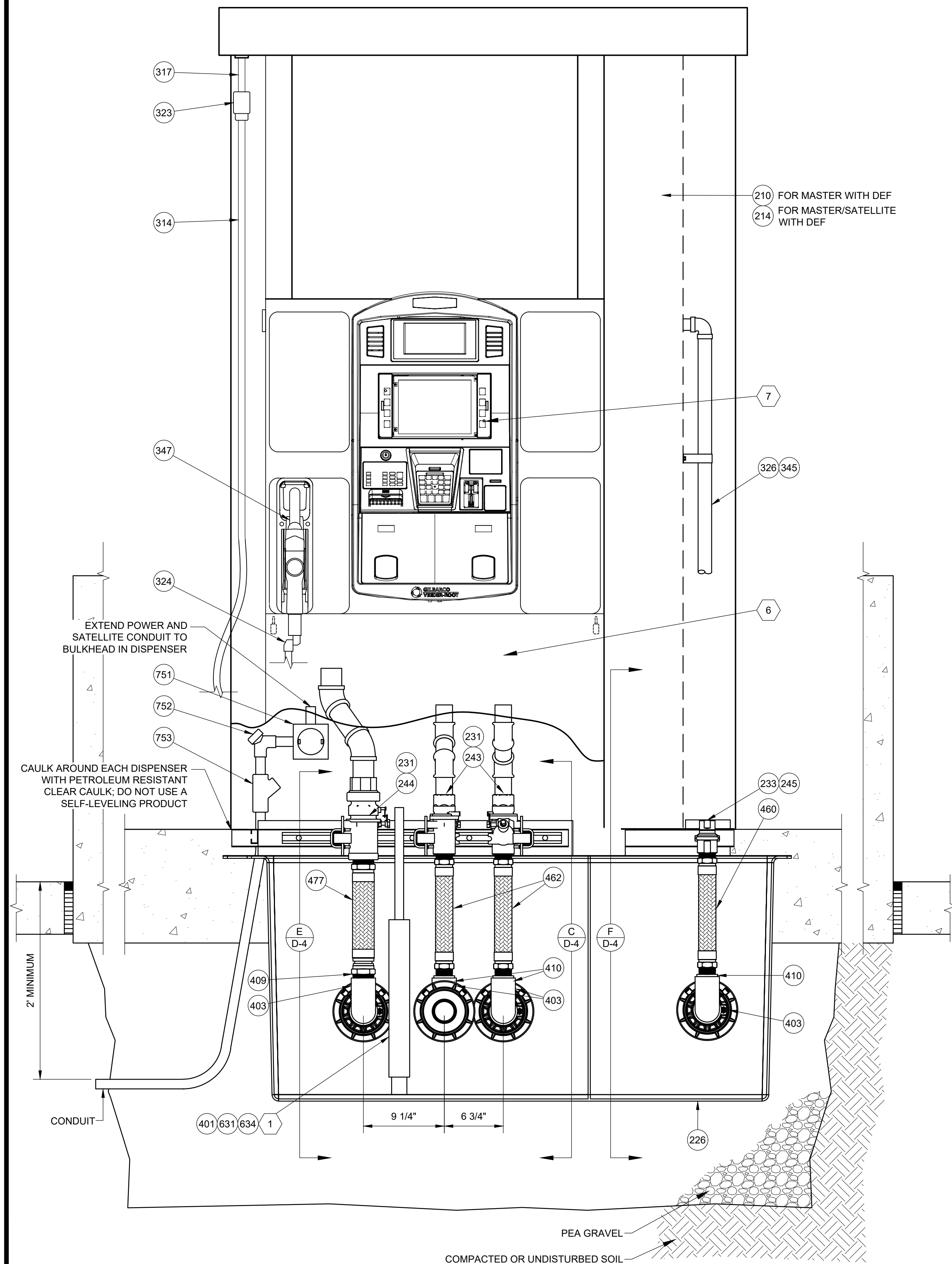
DIAMOND Z ENGINEERING, INC.
GILBARCO ENCORE HI-FLOW DIESEL
MASTER/ SATELLITE WITH DEF
DISPENSER ISLAND DETAILS

DIAMOND Z ENGINEERING, INC.
5670 STATE ROAD
CLEVELAND, OH 44134
PHONE: 440-842-6501

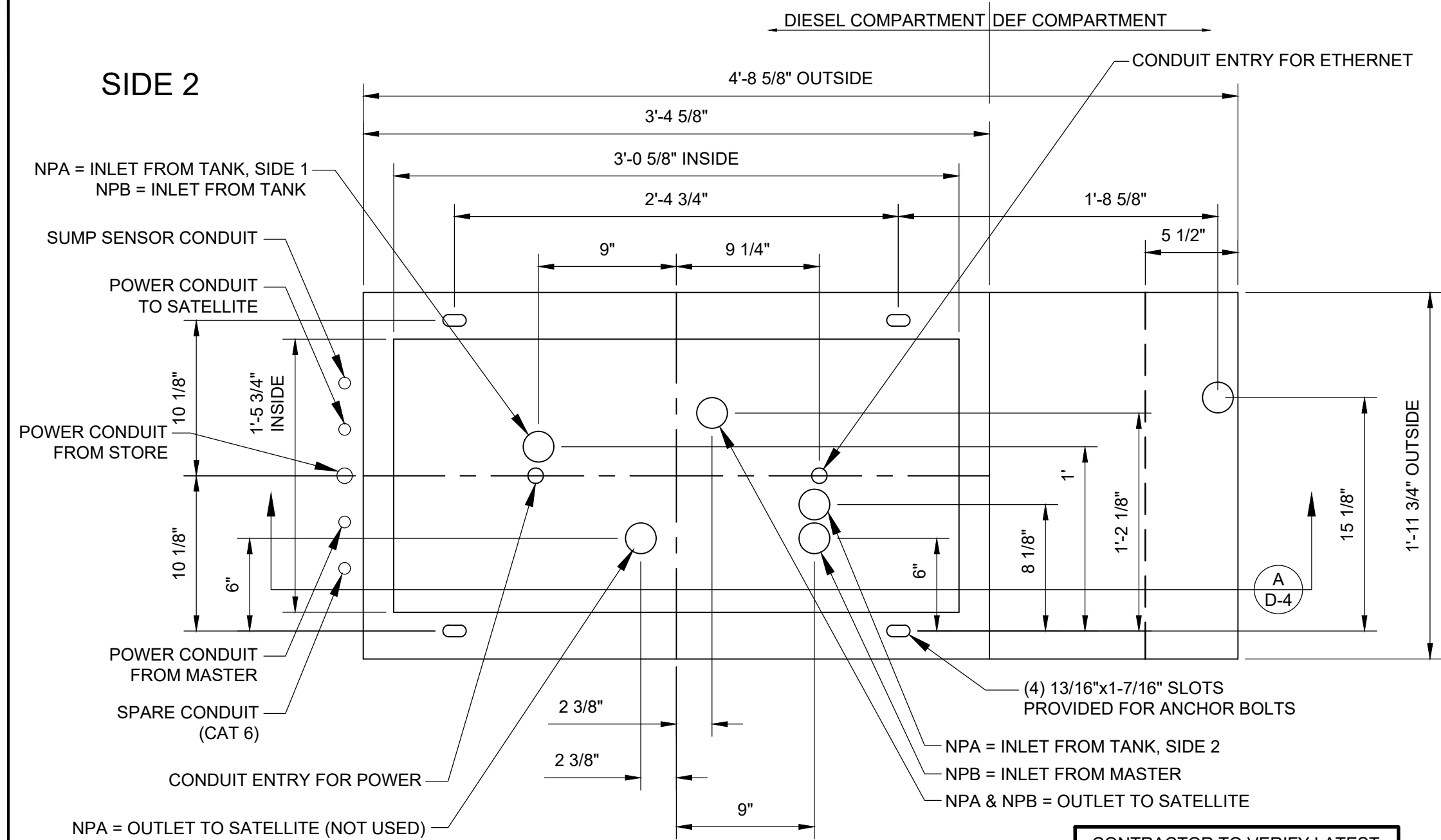
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SCALE: AS NOTED	DATE: 11/15/2023
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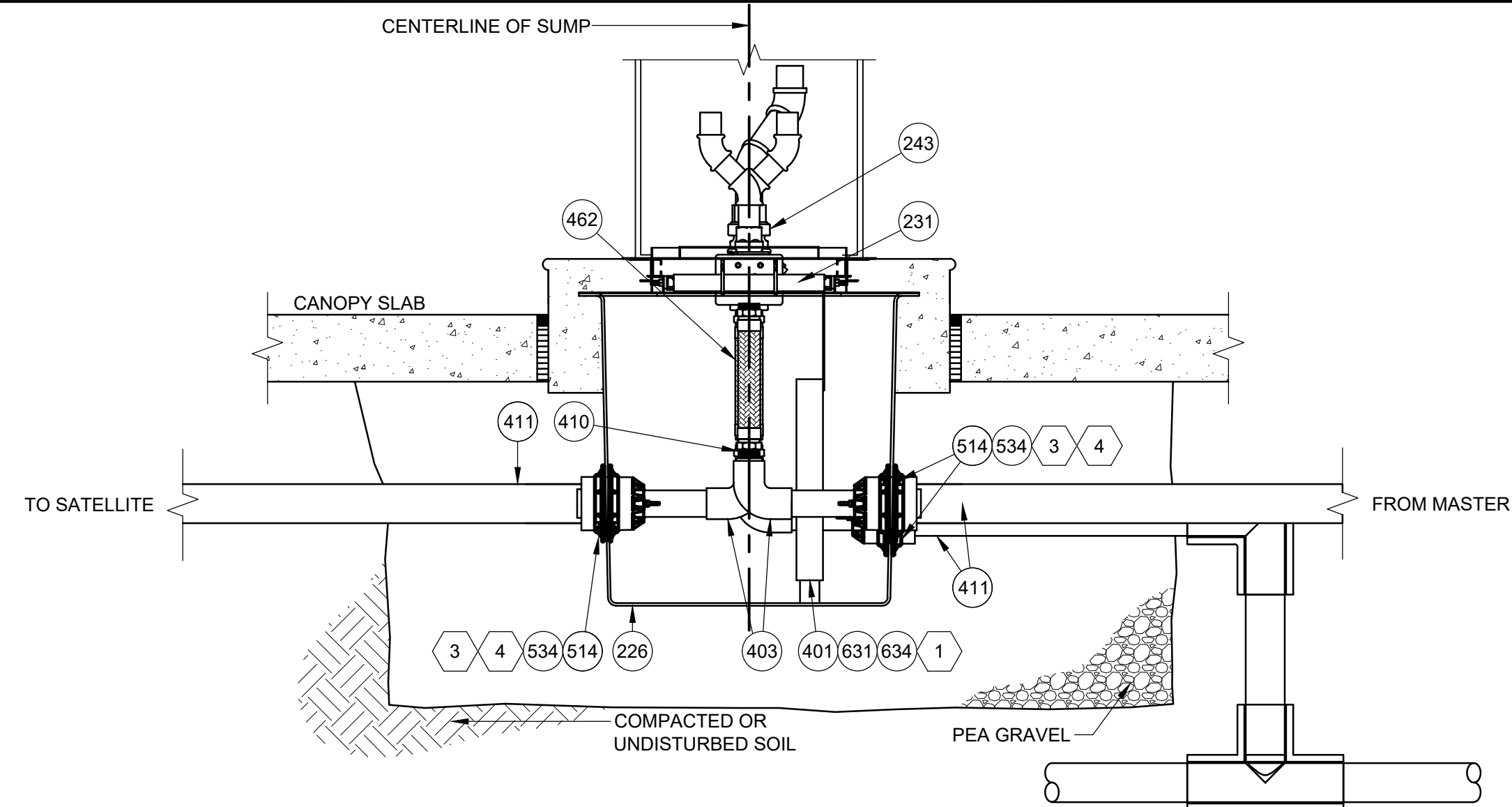
DRAWING NO.
D-3



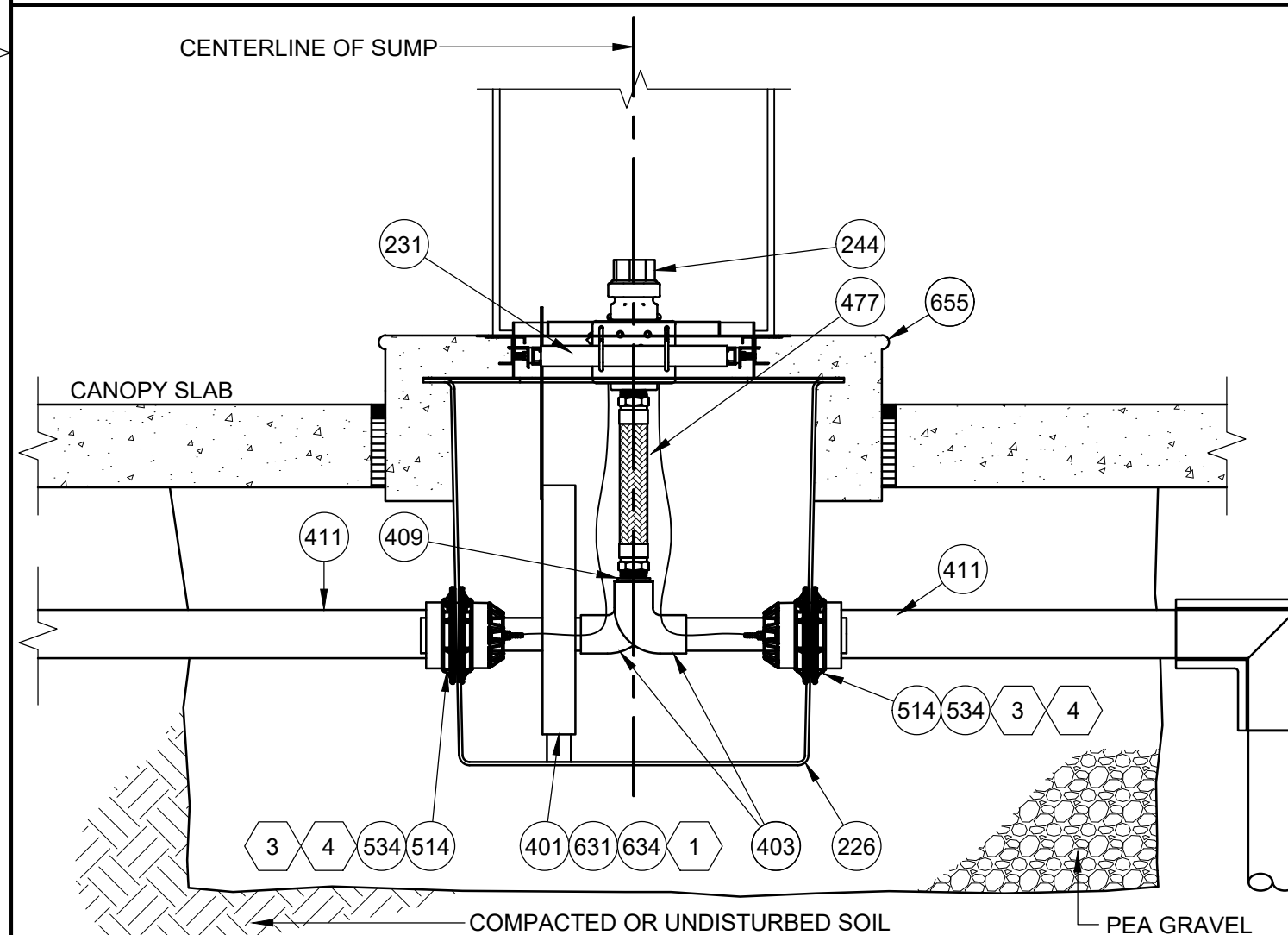
A DISPENSER SUMP FRONT SECTION
SCALE: 1-1/2" = 1'-0"



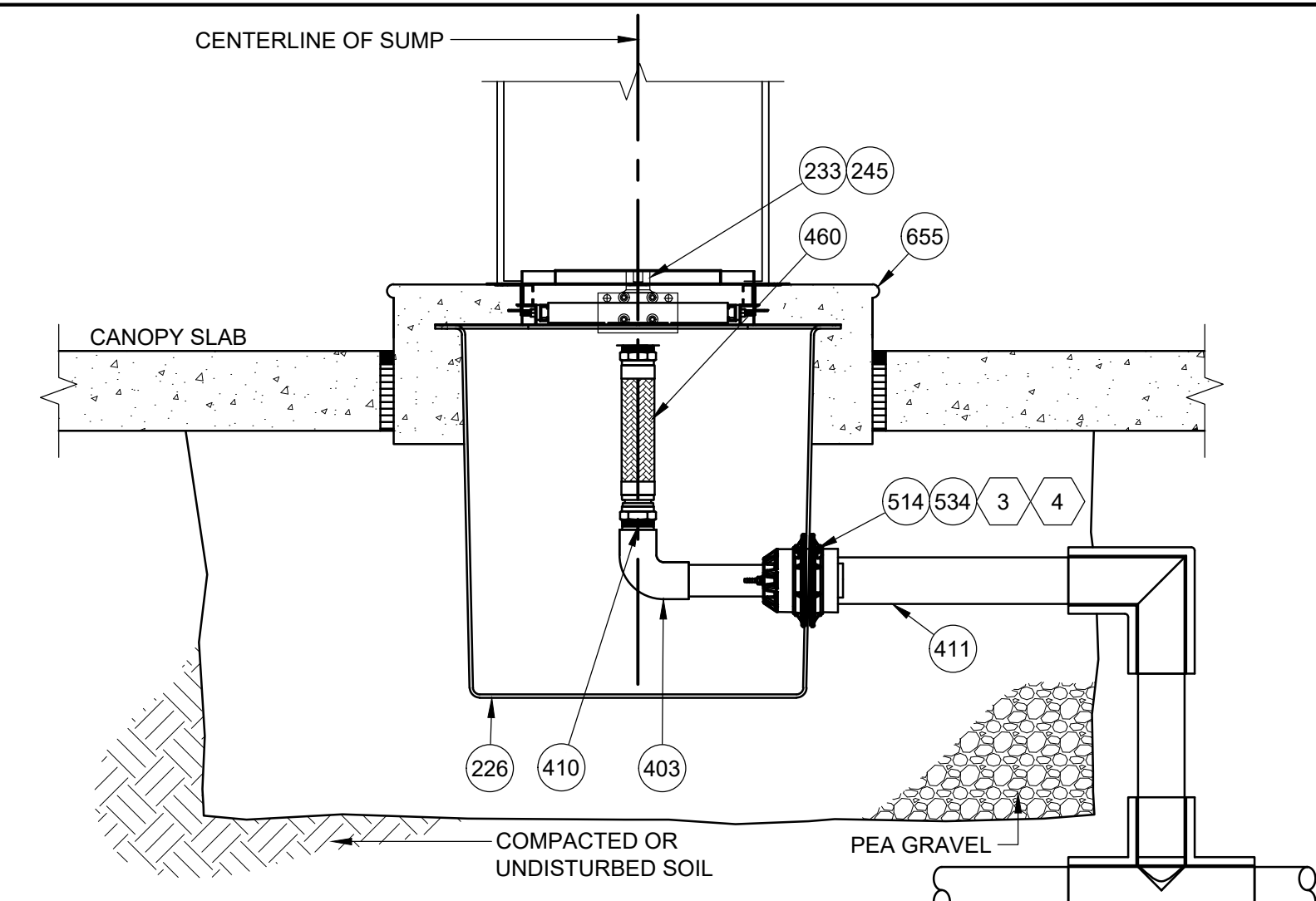
B MOUNTING DIAGRAM
SCALE: 1-1/2" = 1'-0"



C DISPENSER SUMP SIDE SECTION
SCALE: 1" = 1'-0"



E TERMINATION SUMP SIDE SECTION
SCALE: 1" = 1'-0"



F SUMP SIDE SECTION DEF COMPARTMENT
SCALE: 1" = 1'-0"

- NOTES:**
1. PROVIDE 18" LONG 2" DIAMETER FRP SLEEVE MOUNTED TO THE SUMP FRAME AND SECURED 2" OFF BOTTOM. SENSOR TO BE PLACED INSIDE OF FRP SLEEVE AND REST ON SUMP BOTTOM.
 2. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" COMPACTED PEA GRAVEL BEDDING. PIPING SHALL NOT BE SUPPORTED BY BLOCKS, PLANKS, OR OTHER DEBRIS.
 3. ALL ENTRIES TO BE PERPENDICULAR TO CONTAINMENT SUMP.
 4. ORIENT PIPING TEST BOOTS WITH THE TEST PORT ON THE BOTTOM. AFTER AIR TESTING THE JUMPER TUBES TO REMAIN CONNECTED (OR TEST PORT CLOSED FOR TERMINATING LINES).
 5. SLOPE PRODUCT PIPING BACK TO TANKS MINIMUM 1/8" PER 1'-0".
 6. INSTALL NEW FILTERS AS PER MATERIALS LIST AFTER DISPENSERS ARE PURGED.
 7. THE START-UP CONTRACTOR WILL GIVE ALL DISPENSER KEYS, WIRELESS PROGRAMMING REMOTES, STAND-ALONE BY-PASS JUMPERS, AND PROGRAMMING PIN-PADS TO THE DESIGNATED RACETRAC CM. NONE OF THIS EQUIPMENT WILL BE LEFT INSIDE THE DISPENSER OR RETAINED BY THE START-UP CONTRACTOR.

REVISIONS			
ERK	BNH	BNH	
11/15/23	11/15/23	2/22/24	
OWNER REVIEW SET	BID AND PERMIT SET	REVISED BID AND PERMIT SET	

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D-4