

CONTACT INFORMATION

CONSTRUCTION MANAGER

FUEL SYSTEM DESIGNER

DIAMOND Z ENGINEERING, INC.

5670 STATE ROAD
CLEVELAND, OH 44134
P: 440.842.6501

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 CLEVELAND, OH 44134
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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 - E-0 (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 ALTERNATIVE.
- NOTE:**
**ANY DEVIATION FROM THE SPECIFIED
EQUIPMENT & MATERIALS MUST BE APPROVED
PRIOR TO INSTALLATION BY THE RACETRAC
CONSTRUCTION MANAGER.**

- TANK #1 - REGULAR (20K)
- TANK #2 - PREMIUM (12K)
- TANK #3 - E-O (12K)
- TANK #4 - DEF (12K)
- TANK #5 - DIESEL (B100) (12K)
- TANK #6 - DIESEL (B20) (24K)

NOTE:
ANY DEVIATION FROM THE SPECIFIED
EQUIPMENT & MATERIALS MUST BE APPROVED
PRIOR TO INSTALLATION BY THE RACETRAC
CONSTRUCTION MANAGER.

LEGEND

EQUIPMENT IDENTIFIER

 DETAIL IDENTIFIER

FSC FUEL SYSTEM CONTRACTOR

DEF DIESEL EXHAUST FLUID

GC GENERAL CONTRACTOR

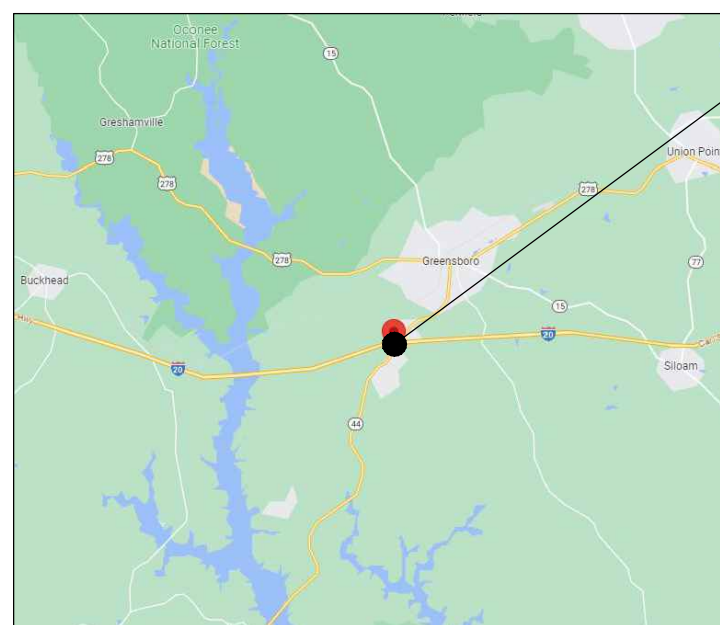
114

UNDISTURBED SOIL

PEA GRAVEL

CONCRETE

LOCATION MAP



SITE LOCATION

ONE CALL



Know what's below.
Call before you dig.

48 HOURS BEFORE YOU DIG CALL 811.

DRAWING INDEX

DRAWING INDEX		REVISION	
COVER		NUMBER	DATE
CS-0	COVER SHEET	1	11/29/2023
LAYOUT			
F-1	OVERALL SITE PLAN - EDO SHARED TANK LAYOUT	1	11/29/2023
F-2A	RETAIL TANK LAYOUT AND PIPING PLAN - EDO SHARED TANK LAYOUT	1	11/29/2023
F-2B	TRUCK TANK LAYOUT AND PIPING PLAN - EDO SHARED TANK LAYOUT	1	11/29/2023
F-3	TANK LAYOUT AND PIPING PLAN - EDO SHARED TANK LAYOUT	1	11/29/2023
FE-1A	RETAIL CONDUIT AND HAZARDOUS AREA - EDO SHARED TANK LAYOUT	1	11/29/2023
FE-1B	TRUCK CONDUIT AND HAZARDOUS AREA - EDO SHARED TANK LAYOUT	1	11/29/2023
FE-2	ELECTRICAL DETAILS - WIRE AND CABLE CHART & JUNGLE ELECTRICAL DETAILS	1	11/29/2023
MATERIALS			
M-1	MATERIALS LIST	1	11/29/2023
M-2	MATERIALS LIST	1	11/29/2023
TANK INSTALLATION DETAILS			
T-1	TANK PAD DETAILS - EDO SHARED TANK LAYOUT	1	11/29/2023
T-2	UNDERGROUND STORAGE TANK INSTALLATION DETAILS - EDO SHARED TANK LAYOUT	1	11/29/2023
T-3	RETAIL TANK SUMP DETAILS	1	11/29/2023
T-5	TANK TOP DETAILS	1	11/29/2023
T-6	TRUCK DIESEL SUMP DETAILS - EDO SHARED	1	11/29/2023
T-7	TANK LID PAINTING, MANIFOLD TESTING AND REMOTE E-STOP DETAILS	1	11/29/2023
T-8	RETAIL AND TRUCK DIESEL STAND ALONE VENT RISER DETAILS	1	11/29/2023
T-9	DEF TANK TOP DETAILS	1	11/29/2023
T-10	DEF REMOTE FILL BOX DETAILS	1	11/29/2023
T-11	RETAIL TRANSITION SUMP DETAILS	1	11/29/2023
T-12	REMOTE FILL DETAILS	1	11/29/2023
T-13	BIO-BLENDING AND TRUCK TRANSITION SUMP DETAILS	1	11/29/2023
DISPENSER INSTALLATION DETAILS			
D-1	GILBARCO ENCORE RETAIL DISPENSER ISLAND DETAILS - SINGLE COLUMN LAYOUT	1	11/29/2023
D-2	GILBARCO ENCORE RETAIL DISPENSER DETAILS	1	11/29/2023
D-3	GILBARCO ENCORE STANDARD-FLOW DIESEL WITH DEF AND E-O DISPENSER ISLAND DETAILS	1	11/29/2023
D-4	GILBARCO ENCORE STANDARD-FLOW DIESEL WITH DEF DISPENSER DETAILS	1	11/29/2023
D-5	GILBARCO ENCORE SINGLE PRODUCT DUAL-SIDED E-O DISPENSER DETAILS	1	11/29/2023

REVISIONS			
OWNER REVIEW SET	11/29/23	BNH	
1			
2			
3			
4			
5			
6			



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200 GALLERIA PARKWAY SE
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ATLANTA, GA 30339
770.431.7600

STORE #1635

2670 LAKE OCONEE PARKWAY
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COVER SHEET

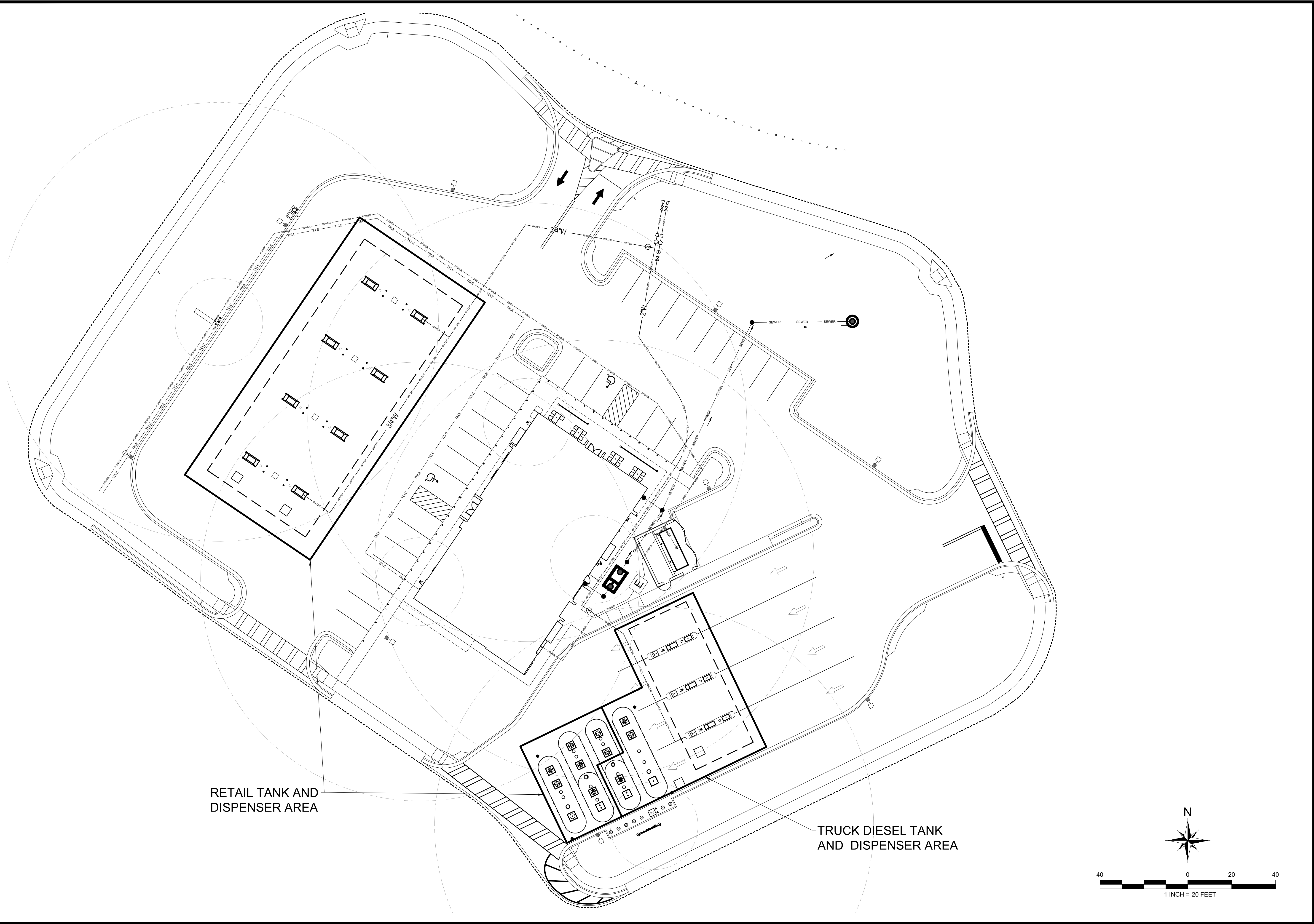
DIAMOND Z ENGINEERING, INC
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SCALE: NONE	DATE: 11/29/2023
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DRAWN BY: BNH	PROJECT NO.: GA-4605
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DRAWING NO.
CS-0



REVISIONS					
11/29/23	BNH				
OWNER REVIEW SET					



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DIAMOND Z
ENGINEERING, INC.

OVERALL SITE PLAN -
EDO SHARED TANK LAYOUT

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SCALE: 1" = 20'-0"	DATE: 11/29/2023
DRAWN BY: BNH	PROJECT NO.: GA-4605

DRAWING NO.
F-1

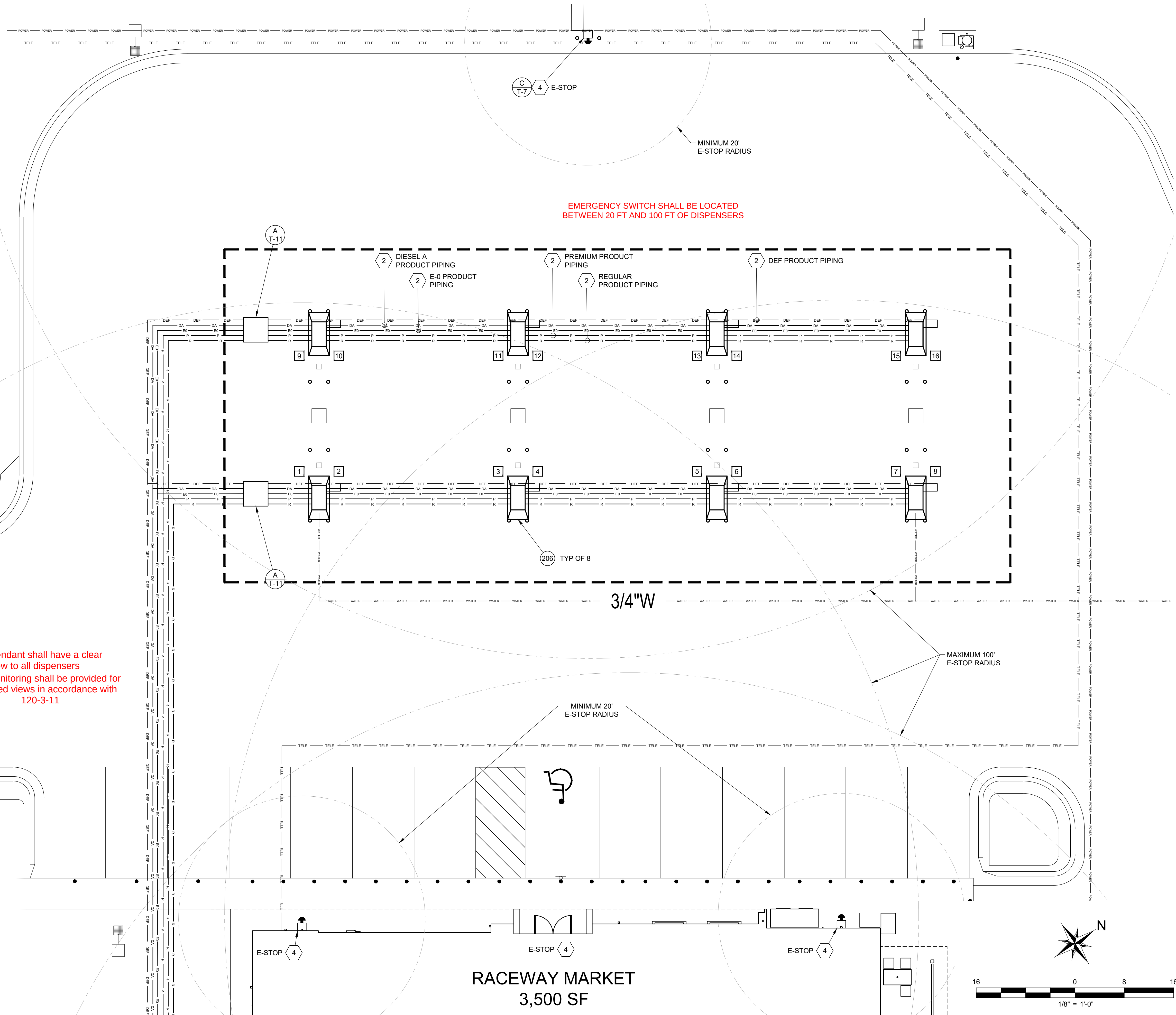
KEY CONSTRUCTION NOTES:

- 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-0
(1) 24,000 GALLON TANK SPLIT
12,000 DEF AND 12,000 B-100
(1) 24,000 GALLON TANK FOR DIESEL
- INSTALL 3" OVER 2" DOUBLE WALL FIBERGLASS RIGID PRODUCT PIPING FROM THE TANKS AND THROUGH THE RETAIL DISPENSERS.
- INSTALL 3" SINGLE WALL FIBERGLASS RIGID VENT PIPING FOR ALL TANKS EXCEPT THE DEF TANK. DEF WILL GET A 2" VENT.
- INSTALL (6) EMERGENCY STOPS (48" HIGH MAX.), (1) EMERGENCY STOP TO BE INSTALLED AT CASHIER COUNTER, (3) EMERGENCY STOPS SHALL BE INSTALLED ON THE OUTSIDE OF THE BUILDING, (1) EMERGENCY STOP TO BE INSTALLED ON A REMOTE BOLLARD AND (1) EMERGENCY STOP TO BE INSTALLED ON THE REMOTE VENT RISER ASSEMBLY 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-0	E-0 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

The attendant shall have a clear view to all dispensers
Video monitoring shall be provided for obstructed views in accordance with 120-3-11



REVISIONS

NO.	DATE	DESCRIPTION
1	11/29/23	BNH
2		
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4		
5		
6		



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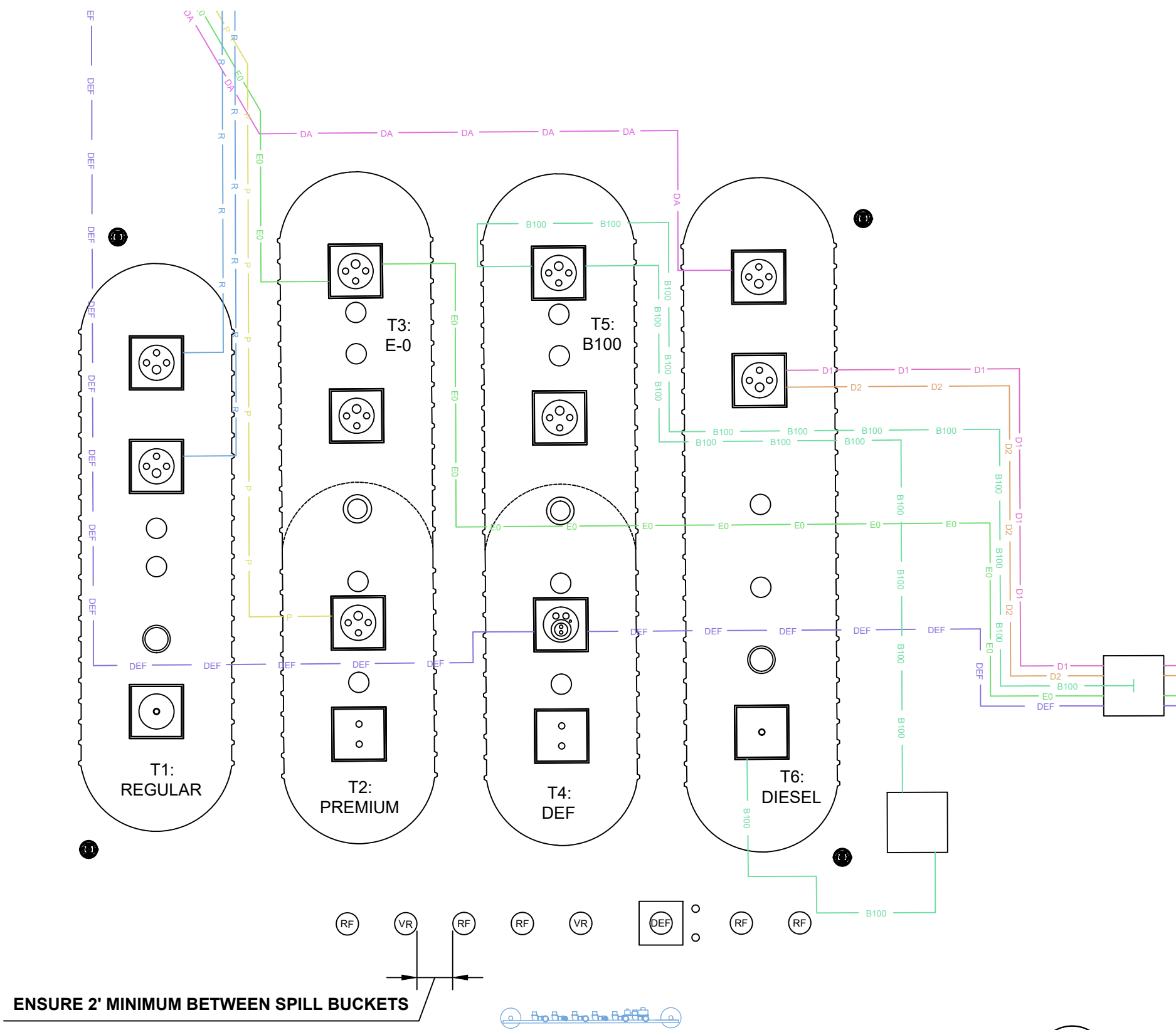
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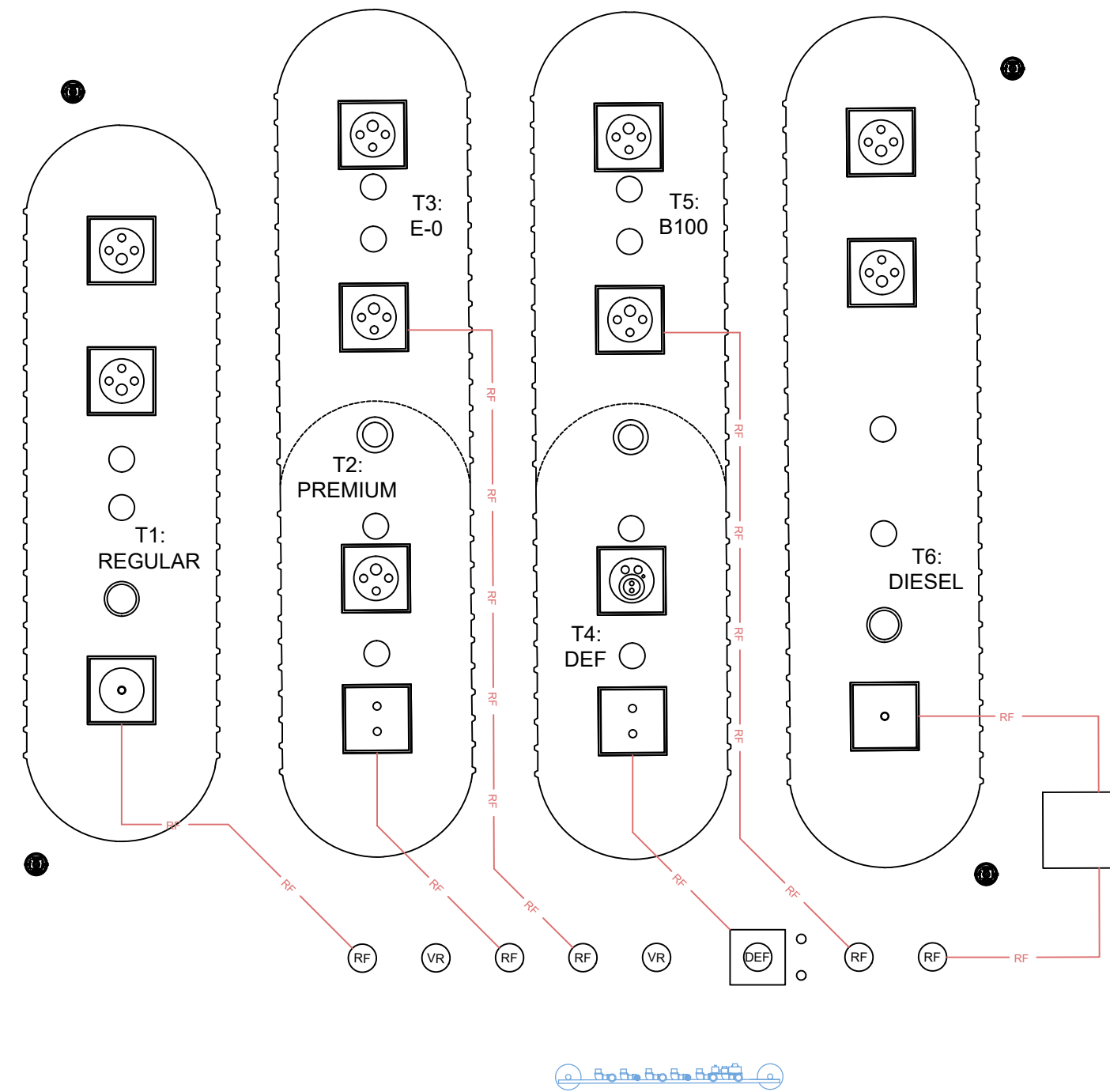
SCALE: 1/8" = 1' DATE: 11/29/2023

DRAWN BY: BNH PROJECT NO.: GA-4605

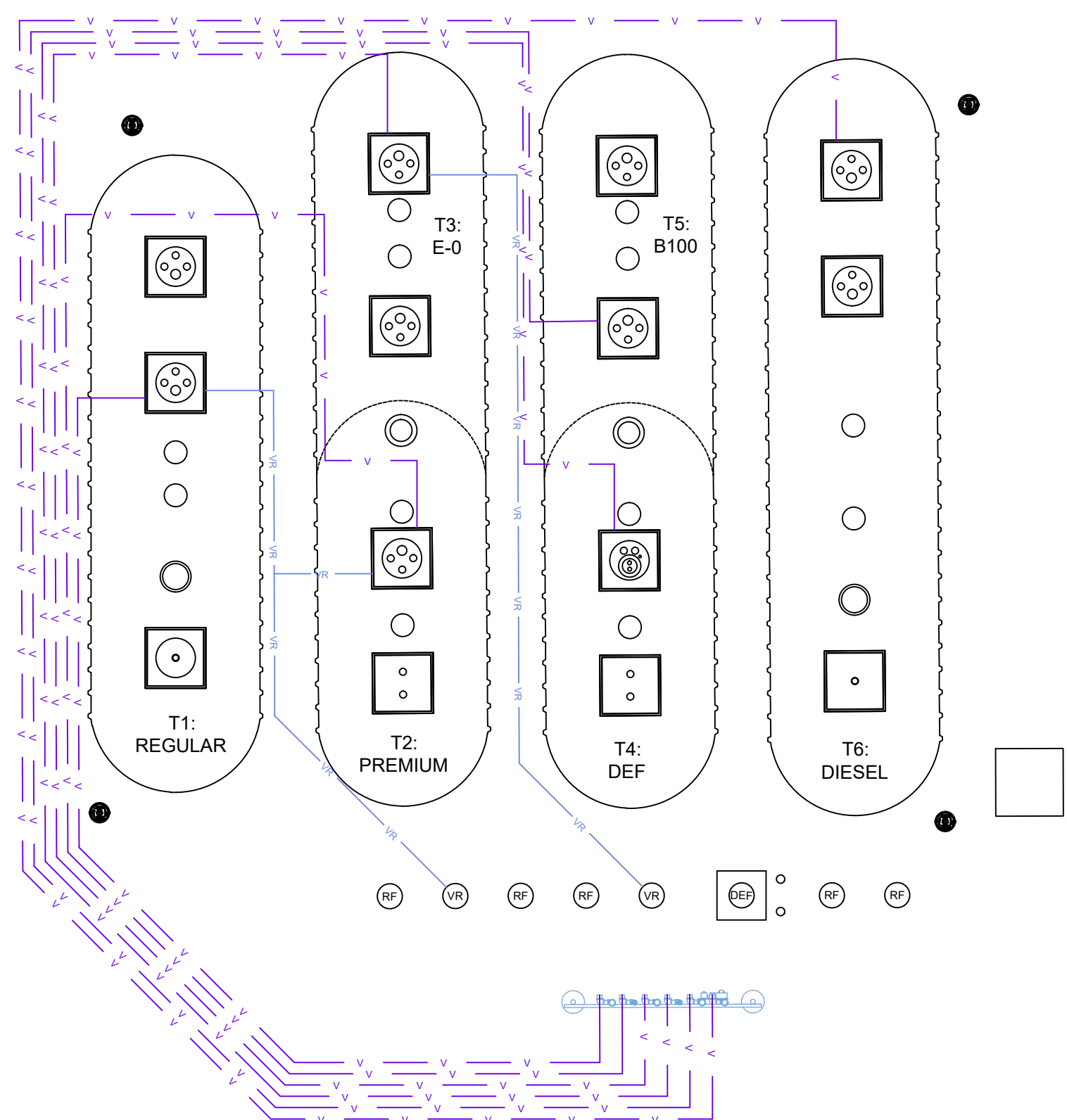
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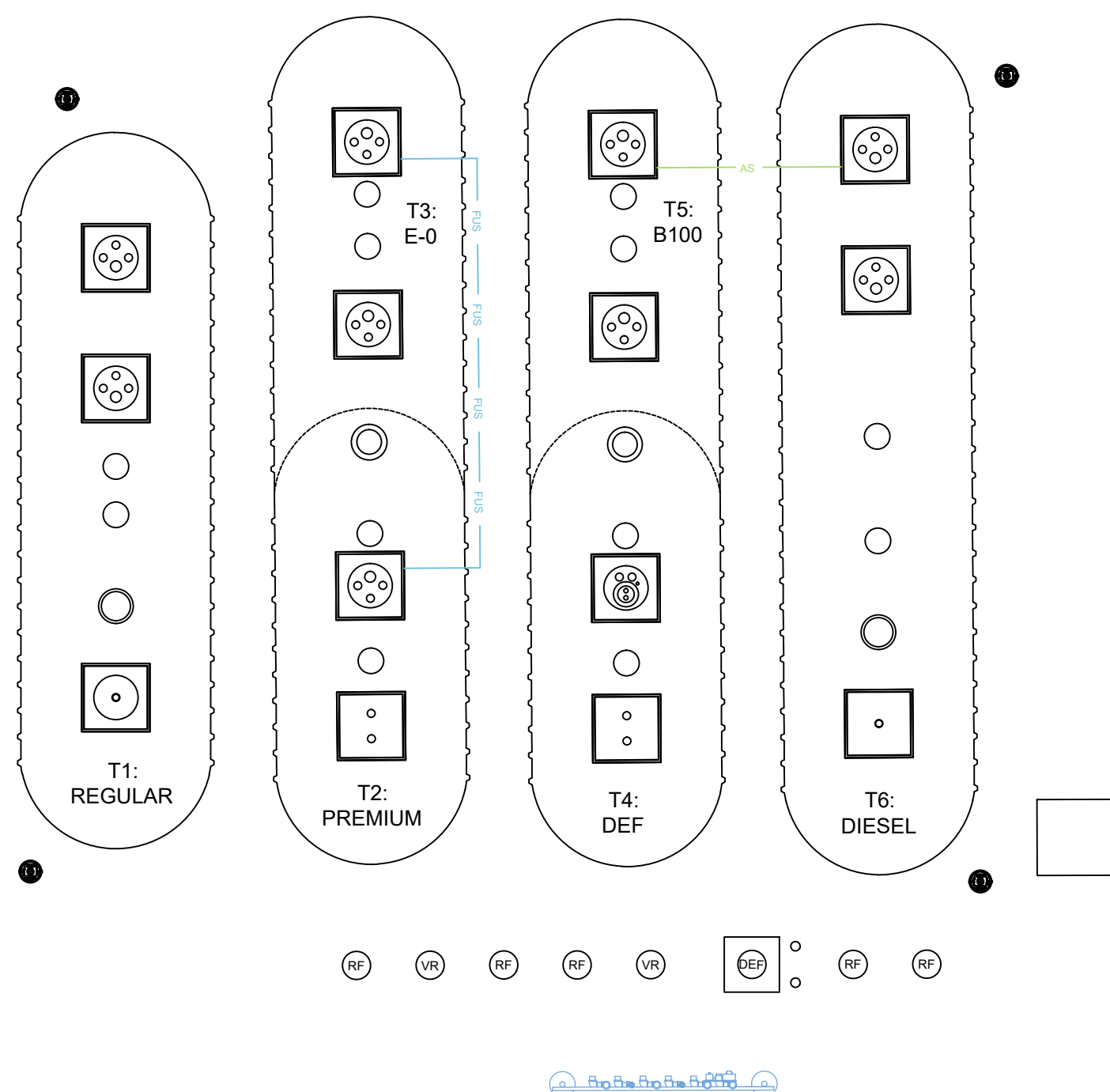
A FUEL PIPING
SCALE: 1/8" = 1'-0"



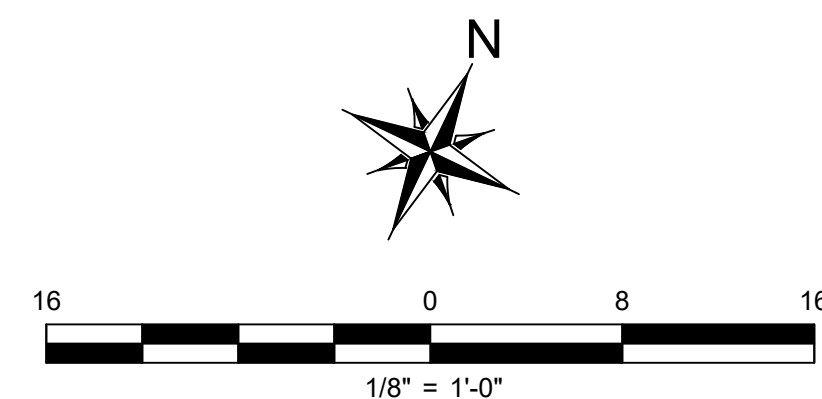
B REMOTE FILLS
SCALE: 1/8" = 1'-0"



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



- 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-0 E-0 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



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

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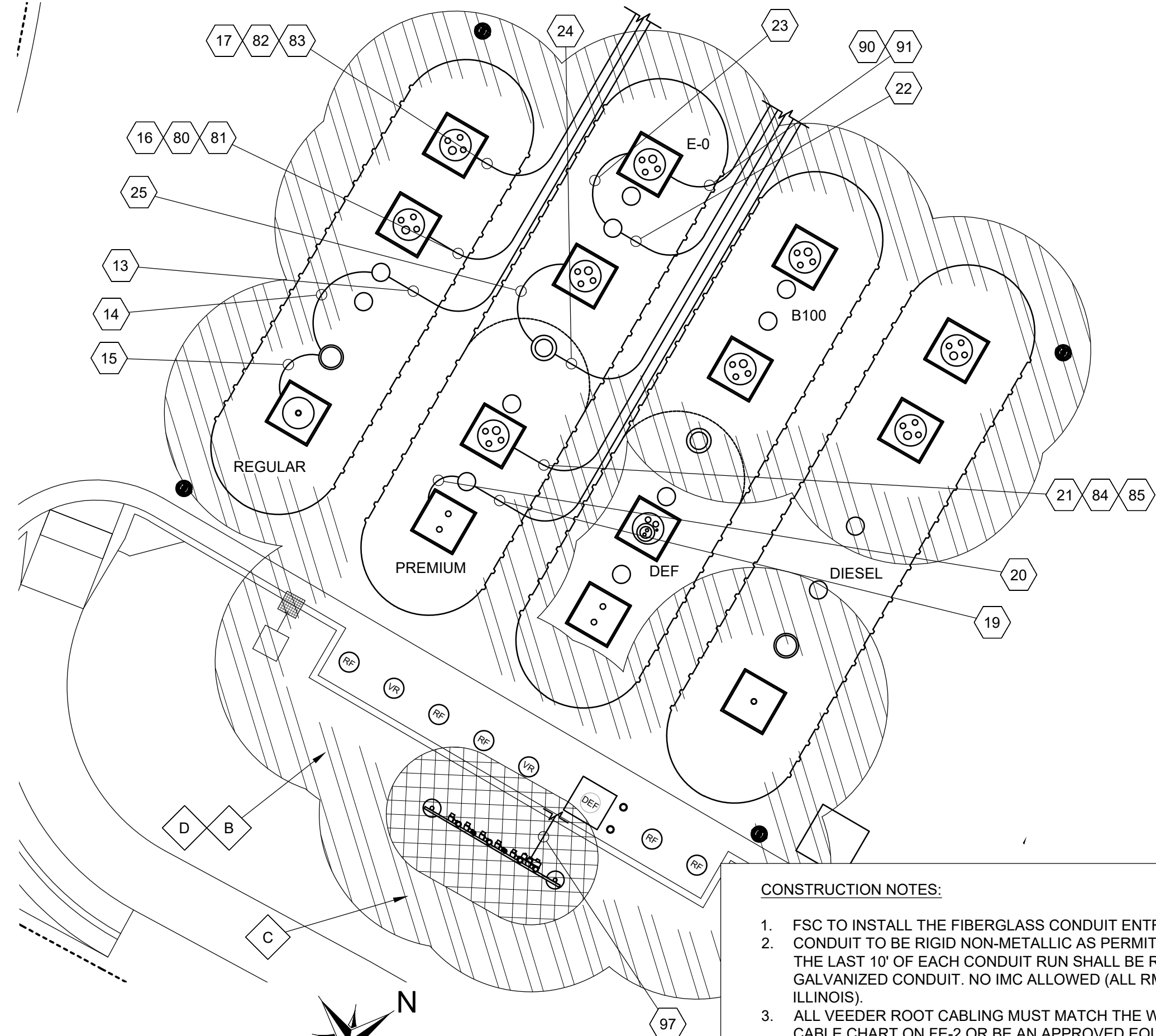
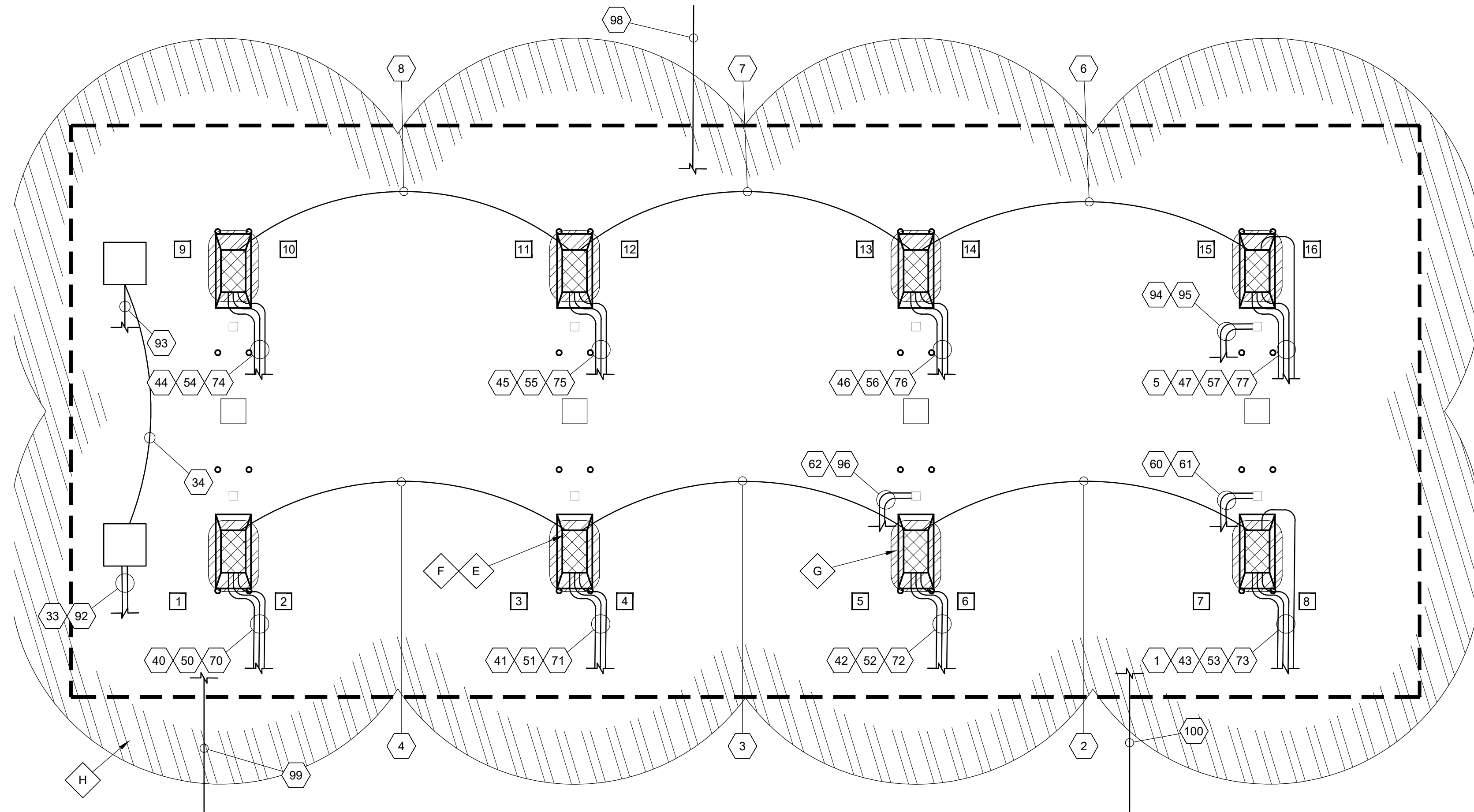
DIAMOND Z
ENGINEERING, INC.
TANK LAYOUT AND PIPING PLAN -
EDO SHARED TANK LAYOUT

DIAMOND Z ENGINEERING, INC.
5670 STATE ROAD
CLEVELAND, OH 44134
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DRAWN BY: BNH	PROJECT NO.: GA-4605

DRAWING NO.
F-3

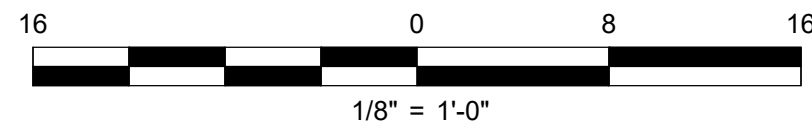


N.E.C. HAZARDOUS AREA NOTES

- 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.



CONDUIT LEGEND						
CONDUIT	SIZE	MATERIAL	TYPE	SOURCE	DESTINATION	PURPOSE
1	1"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 7/8	SUMP SENSOR
2	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 7/8	DISPENSER 5/6	SUMP SENSOR
3	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 5/6	DISPENSER 3/4	SUMP SENSOR
4	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 3/4	DISPENSER 1/2	SUMP SENSOR
5	1"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 15/16	SUMP SENSOR
6	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 15/16	DISPENSER 13/14	SUMP SENSOR
7	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 13/14	DISPENSER 11/12	SUMP SENSOR
8	3/4"	RMC/PVC	INTRINSICALLY SAFE	DISPENSER 11/12	DISPENSER 9/10	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	PREMIUM TANK GAUGE	SUMP SENSOR AND TANK GAUGE
20	3/4"	RMC/PVC	INTRINSICALLY SAFE	PREMIUM TANK GAUGE	PREMIUM FILL SUMP	SUMP SENSOR
21	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	PREMIUM STP SUMP	SUMP SENSOR AND DPLLD
22	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	E-0 TANK GAUGE	SUMP SENSOR, TANK GAUGE, AND DPLLD
23	3/4"	RMC/PVC	INTRINSICALLY SAFE	E-0 TANK GAUGE	E-0 STP SUMP	SUMP SENSOR AND DPLLD
24	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	E-0 INTERSTITIAL	INTERSTITIAL MONITOR AND SUMP SENSOR
25	3/4"	RMC/PVC	INTRINSICALLY SAFE	E-0 INTERSTITIAL	E-0 FILL SUMP	SUMP SENSOR
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
45	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 #1 STP SUMP	PUMP POWER
81	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR #1 STP SUMP	SPARE - PULL STRING ONLY
82	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR #2 STP SUMP	PUMP POWER
83	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REGULAR #2 STP SUMP	SPARE - PULL STRING ONLY
84	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	PREMIUM STP SUMP	PUMP POWER
85	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	PREMIUM STP SUMP	SPARE - PULL STRING ONLY
90	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	E-0 STP SUMP	PUMP POWER
91	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	E-0 STP SUMP	PUMP POWER
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	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REMOTE VENT RISERS	OVERFILL ALARM AND EMERGENCY STOP
98	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	REMOTE BOLLARD	EMERGENCY STOP
99	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	EXTERIOR OF THE STORE	EMERGENCY STOP
100	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	EXTERIOR OF THE STORE	EMERGENCY STOP

REVISIONS

NO.	DATE	DESCRIPTION
1	11/29/23	BNH

Racetrac
RACETRAC
200 GALLERIA PARKWAY SE
SUITE 900
ATLANTA, GA 30339
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2670 LAKE OCONEE PARKWAY
GREENSBORO, GA 30642

DIAMOND Z
ENGINEERING, INC.

RETAIL CONDUIT AND HAZARDOUS AREA -
EDO SHARED TANK LAYOUT

DIAMOND Z ENGINEERING, INC.
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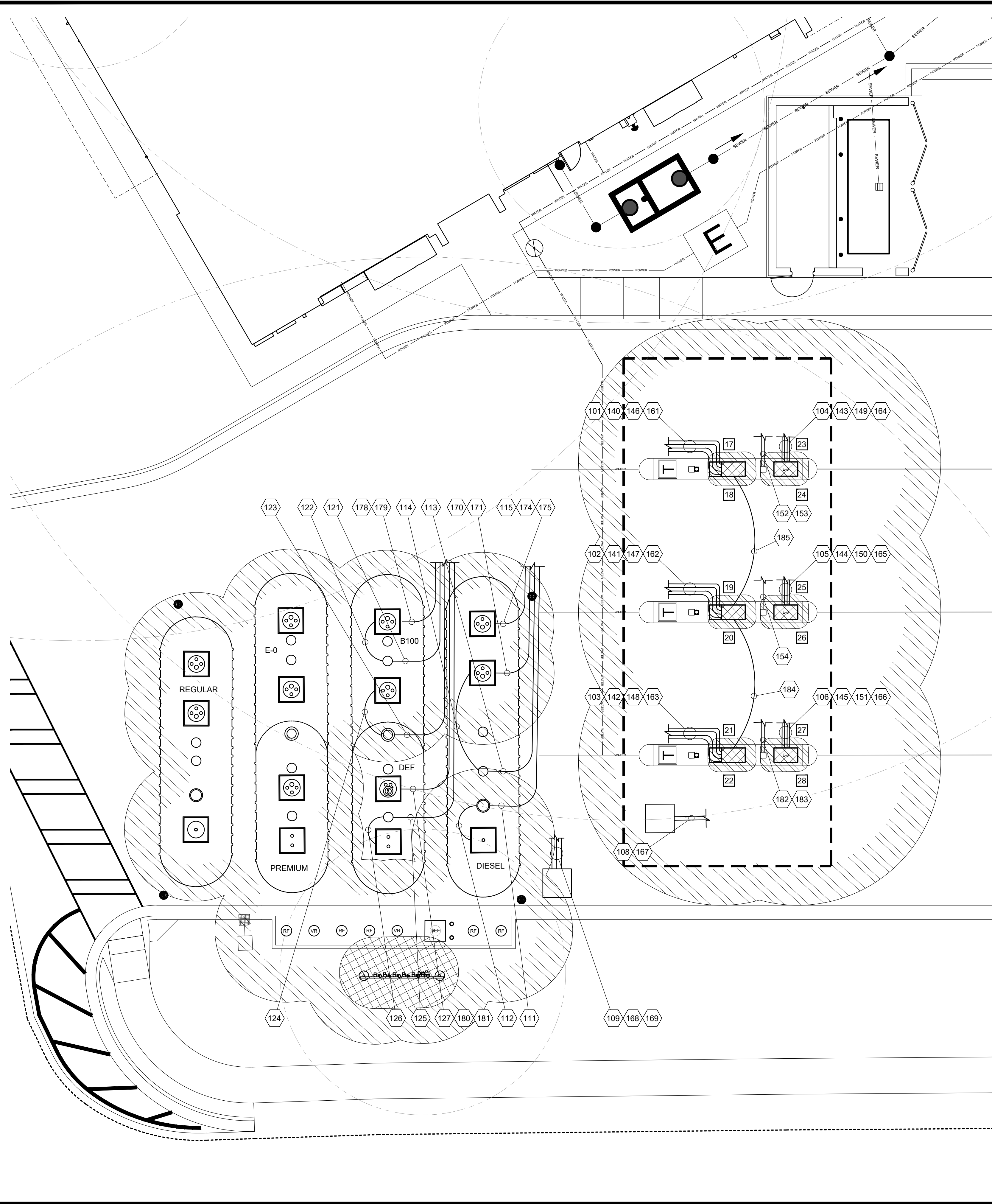
SCALE:
1/8" = 1'-0"

DATE:
11/29/2023

DRAWN BY:
BNH

PROJECT NO.:
GA-4605

DRAWING NO.
FE-1A



CONDUIT LEGEND						
CONDUIT	SIZE	MATERIAL	TYPE	SOURCE	DESTINATION	PURPOSE
101	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 17/18	SUMP SENSOR
102	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 19/20	SUMP SENSOR
103	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 21/22	SUMP SENSOR
104	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 23/24	SUMP SENSOR
105	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 25/26	SUMP SENSOR
106	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DISPENSER 27/28	SUMP SENSOR
108	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	PIPING TRANSITION SUMP	SUMP SENSOR
109	1"	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, DPLD, AND SUMP SENSOR
114	3/4"	RMC/PVC	INTRINSICALLY SAFE	DIESEL TANK GAUGE	DIESEL STP #1 SUMP	DPLD AND SUMP SENSOR
115	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	DIESEL STP #2 SUMP	DPLD AND SUMP SENSOR
121	3/4"	RMC/PVC	INTRINSICALLY SAFE	INTRINSICALLY SAFE RACEWAY AT BUILDING	B-100 TANK GAUGE	TANK GAUGE, DPLD AND SUMP SENSOR
122	3/4"	RMC/PVC	INTRINSICALLY SAFE	B-100 TANK GAUGE	B-100 STP SUMP	DPLD 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 SENSOR
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 17/18	DATA & COMMUNICATION
141	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 19/20	DATA & COMMUNICATION
142	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 21/22	DATA & COMMUNICATION
143	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 23/24	DATA & COMMUNICATION
144	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 25/26	DATA & COMMUNICATION
145	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 27/28	DATA & COMMUNICATION
146	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 17/18	SPARE - PULL STRING ONLY - FUTURE CAT-6
147	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 19/20	SPARE - PULL STRING ONLY - FUTURE CAT-6
148	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 21/22	SPARE - PULL STRING ONLY - FUTURE CAT-6
149	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 23/24	SPARE - PULL STRING ONLY - FUTURE CAT-7
150	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 25/26	SPARE - PULL STRING ONLY - FUTURE CAT-8
151	3/4"	RMC/PVC	LOW VOLTAGE	COMMUNICATIONS CABINET	DISPENSER 27/28	SPARE - PULL STRING ONLY - FUTURE CAT-9
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 17/18	DISPENSER POWER
162	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 19/20	DISPENSER POWER
163	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 21/22	DISPENSER POWER
164	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 23/24	DISPENSER POWER
165	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 25/26	DISPENSER POWER
166	1"	RMC/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DISPENSER 27/28	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/PVC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DIESEL #1 STP SUMP	SPARE - PULL STRING ONLY
174	1"	RMC	HIGH VOLTAGE	HIGH VOLTAGE RACEWAY AT BUILDING	DIESEL #2 STP SUMP	PUMP POWER
175	1"	RMC/PVC	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/PVC	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/PVC	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	DISPENSER 21/22	DISPENSER 19/20	FUTURE SATELLITE DISPENSER POWER
185	3/4"	RMC	HIGH VOLTAGE	DISPENSER 19/20	DISPENSER 17/18	FUTURE SATELLITE DISPENSER POWER

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.

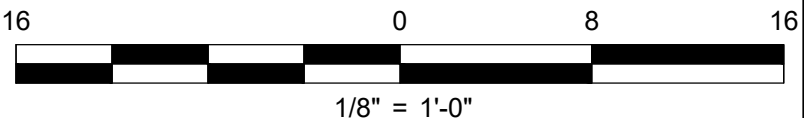
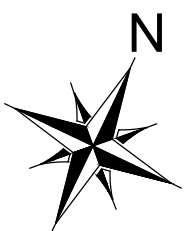
F. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)
EXTENT OF CLASS 1, GROUP D, DIVISION 1
LOCATION:
SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."

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.

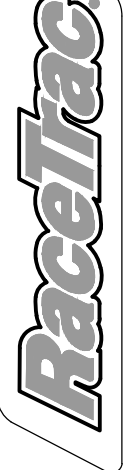
H. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)
EXTENT OF CLASS 1, GROUP D, DIVISION 2
LOCATION:
UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.

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.



REVISIONS				
11/29/23	BNH			



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DIAMOND Z
ENGINEERING, INC.

TRUCK CONDUIT AND HAZARDOUS AREA -
EDO SHARED TANK LAYOUT

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SCALE: 1/8" = 1'-0"	DATE: 11/29/2023
DRAWN BY: BNH	PROJECT NO.: GA-4605

DRAWING NO.
FE-1B

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')
E0 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
E0 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

Passive system wiring

The Standard Bio Blender always needs to be mounted near the diesel thanks 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 Junges 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 Junges 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 Junges and looped to all relay commons. A wire from each of the diesel high and bio low normally open contacts are returned to Junges 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 Junges 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.

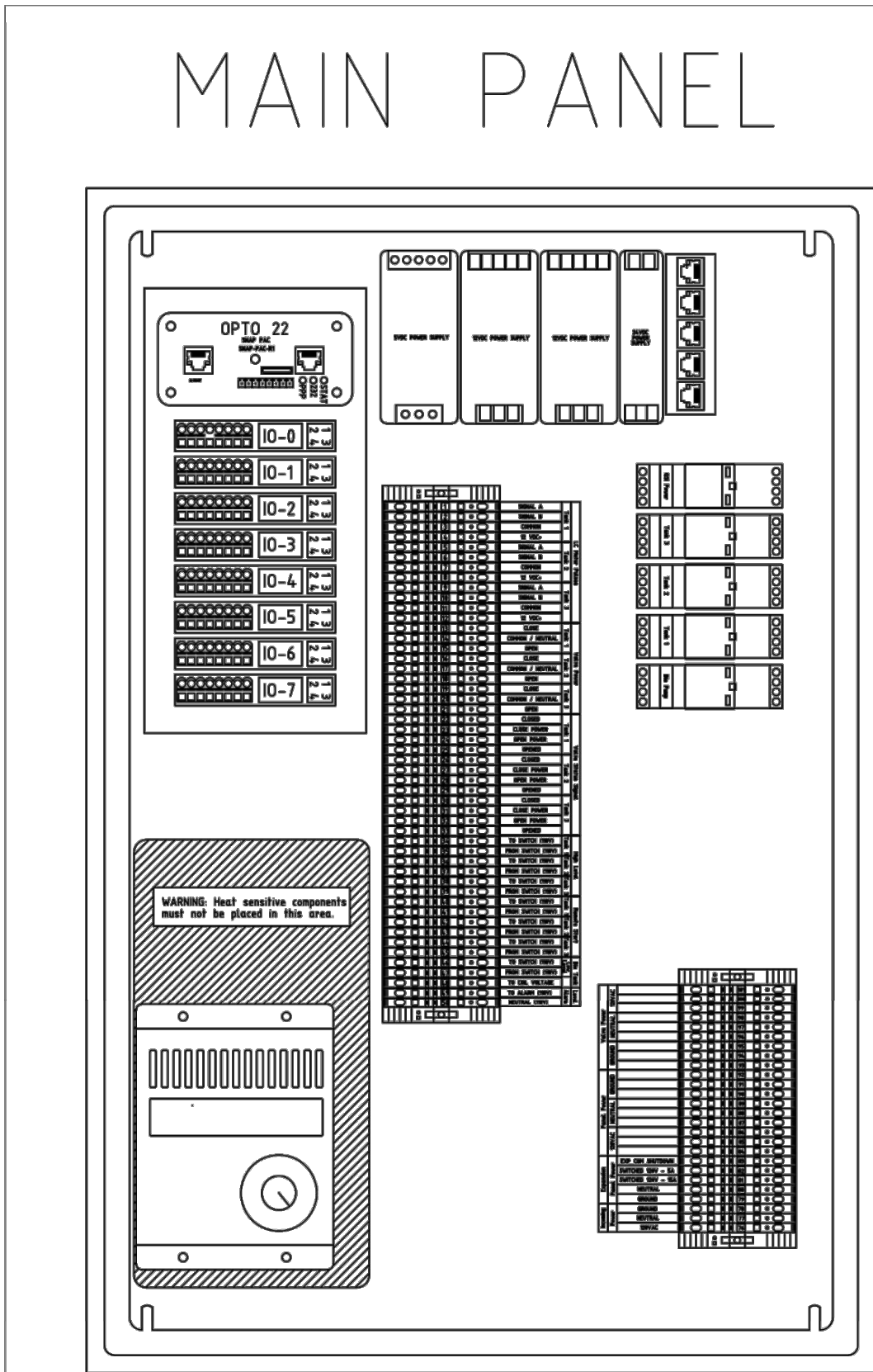
#6 Each diesel 4" turbine meter requires 2-3 conductor shielded cables. If located in the same sump with the bio meter these cables can be routed with the other Dc cables.

#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



TANK 1		TANK 2		TANK 3		TANK 4		TANK 5		TANK 6		TANK 7		TANK 8		TANK 9		TANK 10		TANK 11		TANK 12		TANK 13		TANK 14		TANK 15		TANK 16		TANK 17		TANK 18		TANK 19		TANK 20		TANK 21		TANK 22		TANK 23		TANK 24		TANK 25		TANK 26		TANK 27		TANK 28		TANK 29		TANK 30		TANK 31		TANK 32		TANK 33		TANK 34		TANK 35		TANK 36		TANK 37		TANK 38		TANK 39		TANK 40		TANK 41		TANK 42		TANK 43		TANK 44		TANK 45		TANK 46		TANK 47		TANK 48		TANK 49		TANK 50		TANK 51		TANK 52		TANK 53		TANK 54		TANK 55		TANK 56		TANK 57		TANK 58		TANK 59		TANK 60		TANK 61		TANK 62		TANK 63		TANK 64		TANK 65		TANK 66		TANK 67		TANK 68		TANK 69		TANK 70		TANK 71		TANK 72		TANK 73		TANK 74		TANK 75		TANK 76		TANK 77		TANK 78		TANK 79		TANK 80		TANK 81		TANK 82		TANK 83		TANK 84		TANK 85		TANK 86		TANK 87		TANK 88		TANK 89		TANK 90		TANK 91		TANK 92		TANK 93		TANK 94		TANK 95		TANK 96		TANK 97		TANK 98		TANK 99		TANK 100		TANK 101		TANK 102		TANK 103		TANK 104		TANK 105		TANK 106		TANK 107		TANK 108		TANK 109		TANK 110		TANK 111		TANK 112		TANK 113		TANK 114		TANK 115		TANK 116		TANK 117		TANK 118		TANK 119		TANK 120		TANK 121		TANK 122		TANK 123		TANK 124		TANK 125		TANK 126		TANK 127		TANK 128		TANK 129		TANK 130		TANK 131		TANK 132		TANK 133		TANK 134		TANK 135		TANK 136		TANK 137		TANK 138		TANK 139		TANK 140		TANK 141		TANK 142		TANK 143		TANK 144		TANK 145		TANK 146		TANK 147		TANK 148		TANK 149		TANK 150		TANK 151		TANK 152		TANK 153		TANK 154		TANK 155		TANK 156		TANK 157		TANK 158		TANK 159		TANK 160		TANK 161		TANK 162		TANK 163		TANK 164		TANK 165		TANK 166		TANK 167		TANK 168		TANK 169		TANK 170		TANK 171		TANK 172		TANK 173		TANK 174		TANK 175		TANK 176		TANK 177		TANK 178		TANK 179		TANK 180		TANK 181		TANK 182		TANK 183		TANK 184		TANK 185		TANK 186		TANK 187		TANK 188		TANK 189		TANK 190		TANK 191		TANK 192		TANK 193		TANK 194		TANK 195		TANK 196		TANK 197		TANK 198		TANK 199		TANK 200		TANK 201		TANK 202		TANK 203		TANK 204		TANK 205		TANK 206		TANK 207		TANK 208		TANK 209		TANK 210		TANK 211		TANK 212		TANK 213		TANK 214		TANK 215		TANK 216		TANK 217		TANK 218		TANK 219		TANK 220		TANK 221		TANK 222		TANK 223		TANK 224		TANK 225		TANK 226		TANK 227		TANK 228		TANK 229		TANK 230		TANK 231		TANK 232		TANK 233		TANK 234		TANK 235		TANK 236		TANK 237		TANK 238		TANK 239		TANK 240		TANK 241		TANK 242		TANK 243		TANK 244		TANK 245		TANK 246		TANK 247		TANK 248		TANK 249		TANK 250		TANK 251		TANK 252		TANK 253		TANK 254		TANK 255		TANK 256		TANK 257		TANK 258		TANK 259		TANK 260		TANK 261		TANK 262		TANK 263		TANK 264		TANK 265		TANK 266		TANK 267		TANK 268		TANK 269		TANK 270		TANK 271		TANK 272		TANK 273		TANK 274		TANK 275		TANK 276		TANK 277		TANK 278		TANK 279		TANK 280		TANK 281		TANK 282		TANK 283		TANK 284		TANK 285		TANK 286		TANK 287		TANK 288		TANK 289		TANK 290		TANK 291		TANK 292		TANK 293		TANK 294		TANK 295		TANK 296		TANK 297		TANK 298		TANK 299		TANK 300		TANK 301		TANK 302		TANK 303		TANK 304		TANK 305		TANK 306		TANK 307		TANK 308		TANK 309		TANK 310		TANK 311		TANK 312		TANK 313		TANK 314		TANK 315		TANK 316		TANK 317		TANK 318		TANK 319		TANK 320		TANK 321		TANK 322		TANK 323		TANK 324		TANK 325		TANK 326		TANK 327		TANK 328		TANK 329		TANK 330		TANK 331		TANK 332		TANK 333		TANK 334		TANK 335		TANK 336		TANK 337		TANK 338		TANK 339		TANK 340		TANK 341		TANK 342		TANK 343		TANK 344		TANK 345		TANK 346		TANK 347		TANK 348		TANK 349		TANK 350		TANK 351		TANK 352		TANK 353		TANK 354		TANK 355		TANK 356		TANK 357		TANK 358		TANK 359		TANK 360		TANK 361		TANK 362		TANK 363		TANK 364		TANK 365		TANK 366		TANK 367		TANK 368		TANK 369		TANK 370		TANK 371		TANK 372		TANK 373		TANK 374		TANK 375		TANK 376		TANK 377		TANK 378		TANK 379		TANK 380		TANK 381		TANK 382		TANK 383		TANK 384		TANK 385		TANK 386		TANK 387		TANK 388		TANK 389		TANK 390		TANK 391		TANK 392		TANK 393		TANK 394		TANK 395		TANK 396		TANK 397		TANK 398		TANK 399		TANK 400		TANK 401		TANK 402		TANK 403		TANK 404		TANK 405		TANK 406		TANK 407		TANK 408		TANK 409		TANK 410		TANK 411		TANK 412		TANK 413		TANK 414		TANK 415		TANK 416		TANK 417		TANK 418		TANK 419		TANK 420		TANK 421		TANK 422		TANK 423		TANK 424		TANK 425		TANK 426		TANK 427		TANK 428		TANK 429		TANK 430		TANK 431		TANK 432		TANK 433		TANK 434		TANK 435		TANK 436		TANK 437		TANK 438		TANK 439		TANK 440		TANK 441		TANK 442		TANK 443		TANK 444		TANK 445		TANK 446		TANK 447		TANK 448		TANK 449		TANK 450		TANK 451		TANK 452		TANK 453		TANK 454		TANK 455		TANK 456		TANK 457		TANK 458		TANK 459		TANK 460		TANK 461		TANK 462		TANK 463		TANK 464		TANK 465		TANK 466		TANK 467		TANK 468		TANK 469		TANK 470		TANK 471		TANK 472		TANK 473		TANK 474		TANK 475		TANK 476		TANK 477		TANK 478		TANK 479		TANK 480		TANK 481		TANK 482		TANK 483		TANK 484		TANK 485		TANK 486		TANK 487		TANK 488		TANK 489		TANK 490		TANK 491		TANK 492		TANK 493		TANK 494		TANK 495		TANK 496		TANK 497		TANK 498		TANK 499		TANK 500		TANK 501		TANK 502		TANK 503		TANK 504		TANK 505		TANK 506		TANK 507		TANK 508		TANK 509		TANK 510		TANK 511		TANK 512		TANK 513		TANK 514		TANK 515		TANK 516		TANK 517		TANK 518		TANK 519		TANK 520		TANK 521		TANK 522		TANK 523		TANK 524		TANK 525		TANK 526		TANK 527		TANK 528		TANK 529		TANK 530		TANK 531		TANK 532		TANK 533		TANK 534		TANK 535		TANK 536		TANK 537		TANK 538		TANK 539		TANK 540		TANK 541		TANK 542		TANK 543		TANK 544		TANK 545		TANK 546		TANK 547		TANK 548		TANK 549		TANK 550		TANK 551		TANK 552		TANK 553		TANK 554		TANK 555		TANK 556		TANK 557		TANK 558		TANK 559		TANK 560		TANK 561		TANK 562		TANK 563		TANK 564		TANK 565		TANK 566		TANK 567		TANK 568		TANK 569		TANK 570		TANK 571		TANK 572		TANK 573		TANK 574		TANK 575		TANK 576		TANK 577		TANK 578		TANK 579		TANK 580		TANK 581		TANK 582		TANK 583		TANK 584		TANK 585		TANK 586		TANK 587		TANK 588		TANK 589		TANK 590		TANK 591		TANK 592		TANK 593		TANK 594		TANK 595		TANK 596		TANK 597		TANK 598		TANK 599		TANK 600		TANK 601		TANK 602		TANK 603		TANK 604		TANK 605		TANK 606		TANK 607		TANK 608		TANK 609		TANK 610		TANK 611		TANK 612		TANK 613		TANK 614		TANK 615		TANK 616		TANK 617		TANK 618		TANK 619		TANK 620		TANK 621		TANK 622		TANK 623		TANK 624		TANK 625		TANK 626		TANK 627		TANK 628		TANK 629		TANK 630		TANK 631		TANK 632		TANK 633		TANK 634		TANK 635		TANK 636		TANK 637		TANK 638		TANK 639		TANK 640		TANK 641		TANK 642		TANK 643		TANK 644		TANK 645		TANK 646		TANK 647		TANK 648		TANK 649		TANK 650		TANK 651		TANK 652		TANK 653		TANK 654		TANK 655		TANK 656		TANK 657		TANK 658		TANK 659		TANK 660		TANK 661		TANK 662		TANK 663		TANK 664		TANK 665		TANK 666		TANK 667		TANK 668		TANK 669		TANK 670		TANK 671		TANK 672		TANK 673		TANK 674		TANK 675		TANK 676		TANK 677		TANK 678		TANK 679		TANK 680		TANK 681		TANK 682		TANK 683		TANK 684		TANK 685		TANK 686		TANK 687		TANK 688		TANK 689		TANK 690		TANK 691		TANK 692		TANK 693		TANK 694		TANK 695		TANK 696		TANK 697		TANK 698		TANK 699		TANK 700		TANK 701		TANK 702		TANK 703		TANK 704		TANK 705		TANK 706		TANK 707		TANK 708		TANK 709		TANK 710		TANK 711		TANK 712		TANK 713		TANK 714		TANK 715		TANK 716		TANK 717		TANK 718		TANK 719		TANK 720		TANK 721		TANK 722		TANK 723		TANK 724		TANK 725		TANK 726		TANK 727		TANK 728		TANK 729		TANK 730		TANK 731		TANK 732		TANK 733		TANK 734		TANK 735		TANK 736		TANK 737		TANK 738		TANK 739		TANK 740		TANK 741		TANK 742		TANK 743		TANK 744		TANK 745		TANK 746		TANK 747		TANK 748		TANK 749		TANK 750		TANK 751		TANK 752		TANK 753		TANK 754		TANK 755		TANK 756		TANK 757		TANK 758		TANK 759		TANK 760		TANK 761		TANK 762		TANK 763		TANK 764		TANK 765		TANK 766		TANK 767		TANK 768		TANK 769		TANK 770		TANK 771		TANK 772		TANK 773		TANK 774		TANK 775		TANK 776		TANK 777		TANK 778		TANK 779		TANK 780		TANK 781		TANK 782		TANK 783		TANK 784		TANK 785		TANK 786		TANK 787		TANK 788		TANK 789		TANK 790		TANK 791		TANK 792		TANK 793		TANK 794		TANK 795		TANK 796		TANK 797		TANK 798		TANK 799		TANK 800		TANK 801		TANK 802		TANK 803		TANK 804		TANK 805		TANK 806		TANK 807		TANK 808		TANK 809		TANK 810		TANK 811		TANK 812		TANK 813		TANK 814		TANK 815		TANK 816		TANK 817		TANK 818		TANK 819		TANK 820		TANK 821		TANK 822		TANK 823		TANK 824		TANK 825		TANK 826		TANK 827		TANK 828		TANK 829		TANK 830		TANK 831		TANK 832		TANK 833		TANK 834		TANK 835		TANK 836		TANK 837		TANK 838		TANK 839		TANK 840		TANK 841		TANK 842		TANK 843		TANK 844		TANK 845		TANK 846		TANK 847		TANK 848		TANK 849		TANK 850		TANK 851		TANK 852		TANK 853		TANK 854		TANK 855		TANK 856		TANK 857		TANK 858		TANK 859		TANK 860		TANK 861		TANK 862		TANK 863		TANK 864		TANK 865		TANK 866		TANK 867		TANK 868		TANK 869		TANK 870		TANK 871		TANK 872		TANK 873		TANK 874		TANK 875		TANK 876		TANK 877		TANK 878		TANK 879		TANK 880		TANK 881		TANK 882		TANK 883		TANK 884		TANK 885		TANK 886		TANK 887		TANK 888		TANK 889		TANK 890		TANK 891		TANK 892	
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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, (2) 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	161	15-GALLON STAINLESS STEEL DEF REMOTE FILL ADJUSTABLE LEGS, 4-INCH OPENING IN BACK, STAINLESS STEEL BALL VALVE AND DRAIN	MORRISON BROTHERS	515SDST0400	1	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	22
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	162	4" STAINLESS STEEL FILL ADAPTER - DEF REMOTE FILL	PT COUPLING	1400140	1	342	11BP SERIES BLACK , E10, UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILL GUARD 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, (1) 4-INCH SERVICE FITTING, (3) 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)	ZCL/XERXES OR CSI	---	1	163	4" STAINLESS STEEL CAM & GROOVE DUST CAP - DEF REMOTE FILL	PT COUPLING	1401140	1	343	11BP SERIES BLUE, E0, UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILL GUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	11BP-8500	22
5	24,000 GALLON, TWO-COMPARTMENT, DW UNDERGROUND STORAGE TANK WITH BRINE FILLED ANNULAR SPACE, (1) 4-INCH SERVICE FITTING, (3) 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	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	---	344	11BP SERIES ORANGE, E15 (U88), UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILL GUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK, UL 2586 LISTED	OPW	11BP-0800-E25	---
10	42-INCH SQUARE TANK COLLAR WITH TROUGH FOR 10-FOOT DIAMETER UNDERGROUND STORAGE TANKS - SUPPLIED TO XERXES	PETROLEUM CONTAINMENT	CL4242U-10	14	171	PRESSURE GAUGE, STAINLESS STEEL 0-60 PSI - DEF STP SUMP	GAV	4CFJ8	1	345	21GU SERIES BLACK DEF AUTO NOZZLE FOR WITH M34 INLET, #3 GUARD, AND HAND INSULATOR, FOR USE WITHOUT MFPD - HOSE/NOZZLE ADAPTER REQUIRED	OPW	21GU-040G	
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	172	VISI-FLOW SIGHT FLOW INDICATOR - DIESEL SIPHON LINE	OPW	1421D-0202	1	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	
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	DISPENSERS - OWNER SUPPLIED					348	11BP SERIES YELLOW E85 ETHANOL UNLEADED PRESSURE-SENSING AUTO PREPAY NOZZLE WITH 3/4-INCH NPT INLET, 2-PIECE HAND INSULATOR, ALUMINUM SPOUT, FILL GUARD SPLASH GUARD, AND 2-POSITION HOLD-OPEN RACK UL 2586 LISTED	OPW	11BP-8992-E85	---
13	EPOXY BONDING KITS, LARGE - 1 PER SUMP	PETROLEUM CONTAINMENT	E154TS	32	ITEM	DESCRIPTION	MAKE	MODEL	QTY.	PIPING - CONTRACTOR SUPPLIED				
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 (ISTKMRV52-VL2-26) - (PREMIUM, RETAIL DIESEL, E0, E85, B100)	FRANKLIN FUELING	402831926	5	201	FUEL DISPENSER, BLENDER, 3+0	GILBARCO	ENCORE NN1	---	ITEM	DESCRIPTION	MAKE	MODEL	QTY.
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 (ISTKMRV54-VL2-26) -(REGULAR & TRUCK DIESEL)	FRANKLIN FUELING	402850926	4	202	FUEL DISPENSER, BLENDER, WITH DIESEL, 3+D	GILBARCO	ENCORE NL1	---	401	2" FIBERGLASS PIPE - 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	---	203	FUEL DISPENSER, BLENDER, WITH E-85 CONVERSION, 3+E-85	GILBARCO	ENCORE NL1	---	402	2" FIBERGLASS PIPE COUPLING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
34	MAG - VARIABLE FREQUENCY CONTROLLER	FRANKLIN FUELING	5874202800	9	204	FUEL DISPENSER, DUAL BLENDER, WITH E-15 AND DIESEL - WITH EMV	GILBARCO	ENCORE NF4	---	403	2" FIBERGLASS PIPE 90 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
37	COMPLETE SIPHON UNIT - SPARE	FRANKLIN FUELING	401165930	1	205	FUEL DISPENSER, DOUBLE DUAL BLENDER, WITH E-15 AND E-85 - WITH EMV	GILBARCO	ENCORE NF1	---	404	2" FIBERGLASS PIPE 45 DEGREE ELBOW - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
41	60 HZ SINGLE PHASE, V/2, 102-INCH, VARIABLE LENGTH DEF SUBMERSIBLE TURBINE PUMP KIT	FRANKLIN FUELING	403470901	1	206	FUEL DISPENSER, SINGLE BLENDER, WITH E-0 AND DIESEL - WITH EMV	GILBARCO	ENCORE NL1	8	405	2" FIBERGLASS PIPE TEE - 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	207	FUEL DISPENSER, DOUBLE DUAL BLENDER, WITH E-15, E-85, AND DIESEL - WITH EMV	GILBARCO	ENCORE NF1	---	406	2" FIBERGLASS PIPE BELL X 2" NPT MALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
51	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - B-100	OPW	1C-31512D-BU	1	209	FUEL DISPENSER, HI FLOW, SINGLE SIDED MASTER	GILBARCO	ENCORE	---	407	2" X 1" FIBERGLASS THREADED REDUCER BUSHING	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
52	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - PUL	OPW	1C-31512D-R	1	210	FUEL DISPENSER, HI FLOW, SINGLE SIDED MASTER WITH DEF	GILBARCO	ENCORE NPA	---	408	2" FIBERGLASS CAP - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
53	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - RUL& E-0	OPW	1C-31512D-W	2	211	FUEL DISPENSER, HI FLOW, DUAL SIDED MASTER	GILBARCO	ENCORE	---	409	2" FIBERGLASS SPIGOT X 2" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
54	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - DSL	OPW	1C-31512D-Y	1	212	FUEL DISPENSER, HI FLOW, DUAL SIDED MASTER WITH DEF	GILBARCO	ENCORE	---	410	2" X 1-1/2" FIBERGLASS THREADED REDUCER BUSHING	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
55	EDGE DOUBLE-WALL SPILL BUCKET, 15-GALLON, WITH DRAIN - E-85	OPW	1C-31512D-BZ	1	213	FUEL DISPENSER, HI FLOW, MASTER / SATELLITE	GILBARCO	ENCORE	---	411	3" FIBERGLASS PIPE	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
56	EDGE 1 SINGLE-WALL SPILL BUCKET, 5-GALLON, NO DRAIN - VAPOR RECOVERY	OPW	1C-3101P-O	2	214	FUEL DISPENSER, HI FLOW, MASTER / SATELLITE WITH DEF	GILBARCO	ENCORE NP8	---	412	3" FIBERGLASS PIPE COUPLING - 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	215	FUEL DISPENSER, HI FLOW, SINGLE SIDED SATELLITE	GILBARCO	ENCORE NP5	---	413	3" FIBERGLASS PIPE 90 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	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	---	414	3" FIBERGLASS PIPE 45 DEGREE ELBOW - 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	217	FUEL DISPENSER, STANDARD-FLOW DUAL-SIDED DIESEL WITH DEF	GILBARCO	ENCORE	3	415	3" FIBERGLASS PIPE TEE - 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	218	FUEL DISPENSER, SINGLE-PRODUCT DUAL-SIDED WITH E-0 -WITH EMV	GILBARCO	ENCORE	3	416	3" FIBERGLASS PIPE BELL X 3" NPT MALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
65	4" DURATUFF THREADED CAP	OPW	116-7085	---	220	FIBERGLASS DISPENSER SUMP FOR ENCORE, CONDUITLESS (DOUBLE END) - FIBERGLASS BOX ONLY	PETROLEUM CONTAINMENT	DCLB174374	11	417	3" X 2" FIBERGLASS BONDED REDUCER BUSHING - 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	221	FIBERGLASS DISPENSER SUMP FOR ENCORE, CONDUITLESS (DOUBLE END) - FRAME ONLY (INCLUDES HARDWARE)	PETROLEUM CONTAINMENT	DCLF174374	11	418	3" FIBERGLASS PIPE BELL X 3" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
71	4-INCH X 3-INCH X 4-INCH EXTRACTOR TEE, NO CAE (E85 APPROVED)	OPW	233-4430	2	226	FIBERGLASS DISPENSER SUMP FOR ENCORE WITH DEF, CONDUITLESS	PETROLEUM CONTAINMENT	DEF174360	3	419	3" X 2" FIBERGLASS REDUCER, PLAIN	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 CAE (E85 APPROVED)	OPW	233-4433	3	227	FIBERGLASS DISPENSER SUMP FOR ENCORE WITH DEF ON EACH END OF SUMP, CONDUITLESS	PETROLEUM CONTAINMENT	RSC-174360-DEF	---	420	4" FIBERGLASS PIPE	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	231	SHEAR VALVE ASSEMBLY KIT - BRACKET	PETROLEUM CONTAINMENT	SVU-L	42	421	4" FIBERGLASS PIPE SPIGOT x 4" NPT FEMALE ADAPTER - 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	232	SHEAR VALVE ASSEMBLY KIT - BRACKET - (MASTER/MASTER WITH DEF SUMP ITEM #227)	PETROLEUM CONTAINMENT	SVU-C	---	422	4" SPIGOT X 3" BELL REDUCER BUSHING - 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	233	STABILIZER BAR FOR DEF	PETROLEUM CONTAINMENT	SVA800-DEF	3	423	4" FIBERGLASS PIPE 90 DEGREE ELBOW - 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	4	234	SHEAR PLATE WITH MOUNTING HARDWARE	PETROLEUM CONTAINMENT	HDW-SP100-K	8	424	4" FIBERGLASS PIPE BELL X 4" NPT MALE 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	1	241	1-1/2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP	OPW	10P-0152	38	425	4" FIBERGLASS PIPE BELL X 4" NPT FEMALE ADAPTER - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
93	4" THREADED RISER ADAPTER	OPW	FSA-400-S	7	242	1-1/2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP (SATELLITE FEEDS)	FRANKLIN FUELING	662-501-902	4	426	4" X 3" REDUCER BUSHING - PRIMARY	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
94	JACK SCREW KIT FOR CAST IRON BASE	OPW	61JSK-44CB	4	243	1-1/2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP (SATELLITE FEEDS)	OPW	10P-0202		427	4" FIBERGLASS PIPE 45-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-44MA	1	244	2" PRODUCT SHEAR VALVE, DOUBLE POPPET, FEMALE TOP	OPW	10P-0202		428	4" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
101	REGULAR UNLEADED PRODUCT MARKER - 20,000 GALLONS	CLEAN FUELS	WR25H	1	245	1-1/2-INCH NPT INLET DEF SHEAR VALVE, 1-INCH OUTLET	FRANKLIN FUELING	663100001	11	429	3" FIBERGLASS PIPE 90-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
102	PREMIUM UNLEADED PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	RR25H	1	300	9' LONG, 3/4" HOSE, MALE X MALE (RETAIL DIESEL) - RATED FOR UP TO B20 (FLORIDA, GEORGIA, ALABAMA)	CONTINENTAL / GOODYEAR	53234772000972	22	430	3" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
103	DIESEL A PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	YRB25H	---	301	8" LONG, 3/4" HOSE, MALE X MALE (GASOLINE & E-0)	CONTINENTAL / GOODYEAR	53232712020869	38	431	2" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
104	DIESEL B PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	YRB25H	---	302	8" LONG 3/4" WHIP HOSE, MALE X MALE, UL LISTED FOR E-85 (E-85 & E15)	CONTINENTAL / GOODYEAR	53233712420869		432	2" FIBERGLASS PIPE 90-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	---	303	8" LONG, 3/4" LOW PERMEATION WHIP HOSE, MALE X MALE (OHIO GASOLINE)	CONTINENTAL / GOODYEAR	20754608	---	433	2" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
106	ETHANOL FREE - E-0 - 12,000 GALLONS	CLEAN FUELS	WRNE25H	1	304	8" LONG, 3/4" WHIP HOSE, MALE X MALE (RETAIL DIESEL) -RATED FOR UP TO B20 (FLORIDA, GEORGIA, ALABAMA)	CONTINENTAL / GOODYEAR	53234712020869	22	434	2" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
107	DIESEL PRODUCT MARKER - 24,000 GALLONS	CLEAN FUELS	YRB25H	1	311	9' LONG, 3/4" HOSE, MALE X MALE (GASOLINE & E-0)	CONTINENTAL / GOODYEAR	53232772000972	38	437	3" FIBERGLASS PIPE COUPLING - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
108	B-100 PRODUCT MARKER - 12,000 GALLONS	CLEAN FUELS	GRY25H	1	312	9' LONG, 3/4" HOSE, MALE X MALE, UL-LISTED FOR E-85 (E-85 & E15)	CONTINENTAL / GOODYEAR	53233712400969		438	3" FIBERGLASS PIPE 90-DEGREE ELBOW - 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	313	8' LONG, 3/4" LOW PERMEATION HOSE, MALE X MALE (OHIO GASOLINE)	CONTINENTAL / GOODYEAR	20754759	---	439	3" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
110	VAPOR RECOVERY - ORANGE	CLEAN FUELS	OR17H-00000	2	314	9' LONG, 1" HOSE, MALE X MALE (HI FLOW & FAST FLOW DIESEL) - RATED FOR UP TO B20 - (FLORIDA, GEORGIA, ALABAMA)	CONTINENTAL / GOODYEAR	53234713200969		440	3" FIBERGLASS PIPE TEE - 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	315	9' LONG, 1" HOSE, MALE X MALE (HI FLOW & FAST FLOW DIESEL)	CONTINENTAL / GOODYEAR	53232713200969		445	4" FIBERGLASS PIPE COUPLING - 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	316	8" LONG, 1" WHIP HOSE, MALE X MALE (HI-FLOW & FAST FLOW DIESEL)	CONTINENTAL / GOODYEAR	53232713220869		446	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	317	8" LONG, 1" WHIP HOSE, MALE X MALE (HI-FLOW & FAST FLOW DIESEL) - RATED FOR UP TO B20 (FLORIDA, GEORGIA, ALABAMA)	CONTINENTAL / GOODYEAR	53234713220869		447	4" FIBERGLASS PIPE 45-DEGREE ELBOW - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
124	MONITOR WELL MANHOLE, CAST IRON, 18" DIAMETER, BOLTED, 19" SKIRT - (WHERE REQUIRED)	OPW	104AOW-1819	4	321	3/4-INCH FEMALE X 3/4-INCH FEMALE CAM TWIST MAGNETIC RECONNECTABLE BREAKAWAY (GASOLINE AND DIESEL)	CATLOW	CTM75	60	448	4" FIBERGLASS PIPE TEE - CONTAINMENT	NOV-FIBERGLASS SYSTEMS	SMITH RED THREAD IIA OR LCX	AS REQD
131	39-1/2 -INCH FIBERGLASS COMPOSITE, PLAIN GREY COVER, ROTO-LOCK MANHOLE WITH RECESSED HANDLE, 10-INCH SKIRT	OPW	39CD-RL10	18	322	3/4" BREAKAWAY, UL-LISTED FOR E-85 (E-15 & E-85)	OPW	66V-0492		449	3" X 2" RUBBER REDUCING TEST BOOT WITH STEM	OPW	TBA-3020	AS REQD
132	18-INCH BOLT DOWN MANHOLE WITH 10-INCH SKIRT	UNIVERSAL VALVE	98-1810	16	323	1-INCH FEMALE X 1-INCH FEMALE CAM TWIST RECONNECTABLE MAGNETIC BREAKAWAY (HI-FLOW DIESEL)	CATLOW	CTM100		451	4" LCX COAXIAL FIBERGLASS PIPE	AMERON	DUALOY 3000/LCX	AS REQD
133	12" MANHOLE WITH 11-1/4" SKIRT WITH CAST IRON LID (GROUND ROD)	OPW	104A-1200	---	324	1" MALE BY 1" FEMALE 2-PLANE SWIVEL (HI FLOW & FAST FLOW DIESEL)	HUSKY	0087		452	4" LCX CLAMSHELL TERMINATION ADAPTER	AMERON	DUALOY 3000/LCX	AS REQD
140	1" BRASS FULL PORT BALL VALVE	JOMAR	100-705	---	325	3/4-INCH FEMALE X 3/4-INCH FEMALE CAM TWIST RECONNECTABLE MAGNETIC E25/B20 BREAKAWAY	CATLOW	CTM75-E25B20		453	4" LCX FIBERGLASS PIPE 90 DEGREE ELBOW - CONTAINMENT	AMERON	DUALOY 3000/LCX	AS REQD
141	1" STAINLESS STEEL FULL PORT BALL VALVE (E-85 & DEF)	JOMAR	100-965	---	326	1-INCH BSPP x M34 DEF STAINLESS STEEL RECONNECTABLE BREAKAWAY/SWIVEL ADAPTER	OPW	21GU-SSB		454	4" RUBBER CLOSURE WITH TEST PORT	AMERON	DUALOY 3000/LCX	AS REQD
142	1-1/2" STAINLESS STEEL FULL PORT BALL VALVE (E-85 & DEF)	JOMAR	100-967	---	331	3/4" SWIVEL (GASOLINE & DIESEL)	OPW	241TPS-0241						

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	DEF15X15MXM	11	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	FF15X12HMXM346	---	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	FF15X15HMXM346	44	655	3-FOOT X 25-FOOT X 13-INCH TALL ISLAND FORM WITH 18-INCH RADIUS ENDS - RACETRAC SPEC	RIVERSIDE	I36251318R	3	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-FF20X18HMXEZF	3	656	CHAMPION 7.5-HP ADVANTAGE SERIES AIR COMPRESSOR - 1 PER SITE	RELIABLE HYDRAULICS	CHAMPION	1	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	FF20X18HMSSXEZFSS	9	657	GRACO 65-FOOT X 3/8-INCH SD SERIES AIR REEL - 1 PER DISP	RELIABLE HYDRAULICS	GRACO	3	821	1" SCHEDULE 40 GALVANIZED 90 DEGREE STREET ELBOW	---	---	AS REQD
476	2-INCH X 18-INCH STAINLESS STEEL FIREFLEX FLEX CONNECTOR, HEX MALE X EZ-FIT HEX FEMALE	FRANKLIN FUELING	FF20X18HMXEZF	---	658	GRACO 1/2-INCH X 2-INCH REEL HOOK UP HOSE AND FITTING KIT - 1 PER DISP	RELIABLE HYDRAULICS	GRACO	3	831	1-1/2" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
477	2-INCH DIAMETER FIREFLEX CONNECTOR WITH 2-INCH HEX MALE X 2-INCH MALE SWIVEL, 15-INCH LENGTH	FRANKLIN FUELING	FF20X15HMXM346	---	659	MILTON INFLATOR GAUGE - 1 PER DISP	RELIABLE HYDRAULICS	MILTON	3	832	1-1/2" SCHEDULE 40 GALVANIZED COUPLER	---	---	AS REQD
480	2-INCH X 12-INCH FIREFLEX FLEX CONNECTOR, MALE SWIVEL X EZ-FIT MALE	FRANKLIN FUELING	FF20X12MSXEZ	8	660	1/2-INCH SHUT OFF VALVE - 1 PER DISP	RELIABLE HYDRAULICS	---	3	834	1-1/2" SCHEDULE 40 GALVANIZED 90 DEGREE ELBOW	---	---	AS REQD
482	2-INCH X 12-INCH FIREFLEX FLEX CONNECTOR, FEMALE SWIVEL NPT X EZ-FIT MALE	FRANKLIN FUELING	FF20X12F346XEXM	3	661	BASE FLOW CONTROLLER - 1 PER SITE	JUNGE	JUN FCBIOBLEND XL	1	836	1-1/2" SCHEDULE 40 GALVANIZED 45 DEGREE ELBOW	---	---	AS REQD
491	2" SANITARY FLANGE BLANK	FRANKLIN FUELING	EZBLANK	1	662	PASSIVE CONTROLLER - 1 PER SITE	JUNGE	JUN BIOBLENDEREXP-1	1	839	1-1/2" SCHEDULE 40 GALVANIZED PIPE UNION, 250 LB	---	---	AS REQD
492	2" SANITARY FLANGE CLAMP	FRANKLIN FUELING	EZCLAMP	30	663	DESKTOP PRINTER ASSEMBLY - 1 PER SITE	JUNGE	JUN PRINTER	1	840	1-1/2" SCHEDULE 40 GALVANIZED PLUG	---	---	AS REQD
493	2" SANITARY FLANGE GASKET	FRANKLIN FUELING	407493002	30	664	LEVEL VIBRATION (FLOW INDICATOR) - 1 PER REMOTE FILL	JUNGE	JUN LEVELVIBC1D	1	841	1-1/2" X 1" SCHEDULE 40 GALVANIZED HEX BUSHING	MORRISON BROTHERS	635-0350 MAE	AS REQD
495	2" SANITARY FLANGE TEE	FRANKLIN FUELING	EZ20XEZ20TEEFF	5	665	LC BIOMETER, 2-INCH WITH 2 CHANNEL PULSAR - 1 PER REMOTE FILL	JUNGE	LC M7B1POD	1	851	2" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
496	2" SANITARY BY SANITARY FITTING - (TRANS SUMP)	FRANKLIN FUELING	EZFITXEZFIT	2	666	LC METER SUPPORTS IN SUMP - 1 PER LC METER	JUNGE	LC METER STAND	1	852	2" SCHEDULE 40 GALVANIZED COUPLER	---	---	AS REQD
497	2" SANITARY FLANGE X FLANGE 90-DEGREE EZ FIT	FRANKLIN FUELING	EZXEZ90	10	667	TURBINE METER SUPPORTS IN SUMP - 1 PER TURBINE METER	JUNGE	LC SPONSLER STAND	1	853	2" X 1-1/2" SCHEDULE 40 GALVANIZED REDUCING COUPLING	---	---	AS REQD
498	2" SANITARY FLANGE X 2" HEX MALE NPT	FRANKLIN FUELING	EZX20HMPL	18	668	DIAPHRAGM VALVE, 2-INCH, 12-VOLT - 1 PER LC METER	JUNGE	LC A284711	1	854	2" SCHEDULE 40 GALVANIZED 90 DEGREE ELBOW	---	---	AS REQD
499	2" SANITARY FLANGE X 2" HEX FEMALE NPT - STAINLESS STEEL	FRANKLIN FUELING	EZX20HFSS	2	669	TURBINE METER, 2-CHANNEL - 1 PER REMOTE FILL	JUNGE	TI HA0400-F150-MB	1	855	2" X 1-1/2" SCHEDULE 40 GALVANIZED 90 DEGREE REDUCING ELBOW	---	---	AS REQD
500	2" SANITARY FLANGE X 2" HEX FEMALE NPT	FRANKLIN FUELING	EZX20HFPL	---	670	2-INCH HAND VALVE - 3 PER LC METER (TESTING)	JUNGE	MOR 691 2"	3	856	2" SCHEDULE 40 GALVANIZED 45 DEGREE ELBOW	---	---	AS REQD
PENETRATION FITTINGS - OWNER SUPPLIED					671	4-INCH STANDARD BLACK TEE FITTING - 2 PER REMOTE FILL	JUNGE	PF 40TEE-BLK	2	857	2" SCHEDULE 40 GALVANIZED TEE	---	---	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	18	672	4-INCH COUPLING WITH 3/4-INCH COUPLER FOR FLOW INDICATOR - 1 PER REMOTE FILL	JUNGE	PF 40COUP-BLK-T	1	858	2" X 2" X 1-1/2" SCHEDULE 40 GALVANIZED REDUCING TEE	---	---	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	859	2" SCHEDULE 40 GALVANIZED PIPE UNION, 250 LB	---	---	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	101	674	FLANGE - 2 PER REMOTE FILL	JUNGE	FL RF 4 CS	2	860	2" SCHEDULE 40 GALVANIZED PLUG	---	---	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	861	2" SCHEDULE 40 GALVANIZED PIPE CAP	---	---	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 40X20-BLK	1	862	2" X 3/4" 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	---	863	2" X 1" SCHEDULE 40 GALVANIZED SWAGE NIPPLE	---	---	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	---	864	2" X 1" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
534	ADHESIVE FOR INSTALLING PENETRATION FITTINGS (450ML CARTRIDGE)	PETROLEUM CONTAINMENT	EP2A-450	90	679	FILTER ELEMENT - USE IF BIO SOURCE IS QUESTIONABLE	JUNGE	CIM-TEK VIKING ELEMENT	---	871	3" SCHEDULE 40 GALVANIZED PIPE	---	---	AS REQD
535	PENETRATION FITTING TEST KIT, 2 TERMINATION LINES PER KIT (3-FEET LONG)	PETROLEUM CONTAINMENT	HDW-TSK-T1	101	680	FUEL FILTER, 10 MICRON, HYDROSORB (GASOLINE)	CIM-TEK	70060	29	874	3" SCHEDULE 40 GALVANIZED 90 DEGREE ELBOW	---	---	AS REQD
541	SECONDARY TEST TUBE - 6-FEET LONG	AMERON	0000-2728	---	681	FUEL FILTER, 10 MICRON, HYDROSORB (DIESEL) 400MB-10	CIM-TEK	70120	13	876	3" SCHEDULE 40 GALVANIZED 45 DEGREE ELBOW	---	---	AS REQD
ELECTRICAL - OWNER SUPPLIED					682	FUEL FILTER, 1 MICRON (E-85)	CIM-TEK	70039	---	877	3" SCHEDULE 40 GALVANIZED TEE	---	---	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	860091-301	1	683	FUEL FILTER, 30 MICRON, CELLULOSE (HIGH FLOW DIESEL) -800-30	CIM-TEK	70020	---	878	3" X 3" X 2" SCHEDULE 40 GALVANIZED REDUCING TEE	---	---	AS REQD
602	TLS-450 PLUS APPLICATION SOFTWARE	VEEDER ROOT	333545-001	1	701	FIBERGLASS KIT	---	---	---	879	3" SCHEDULE 40 GALVANIZED PIPE UNION, 250 LB	---	---	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	880	3" SCHEDULE 40 GALVANIZED NPT PLUG	---	---	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	881	3" X 2" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	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	882	3" X 3/4" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	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	---	38	891	4" SCHEDULE 80 GALVANIZED PIPE	---	---	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	742	OVERFILL SIGNAGE	MAY ADVERTISING	M-58	1	892	4" X 4" X 4" SCHEDULE 40 GALVANIZED TEE	---	---	AS REQD
609	DEF RECIRCULATION SOFTWARE FEATURE FOR TLS-450 PLUS	VEEDER ROOT	332972-026	---	743	EMERGENCY SHUT-OFF SIGN (EXTERIOR)	MAY ADVERTISING	M-53"A (OR EQUAL)	5	893	4" X 3" X 3" SCHEDULE 40 GALVANIZED DOUBLE TAP BUSHING	---	---	AS REQD
610	DEF TEMPERATURE SENSOR INSTALLATION KIT	VEEDER ROOT	794380-210	---	745	THREAD SEALANT (GAS, DIESEL & E-85)	GASOILA	GE16	AS REQD	894	4" X 2" SCHEDULE 40 GALVANIZED HEX BUSHING	---	---	AS REQD
621	DPLLD SENSOR W/OUT SWITCHECK	VEEDER ROOT	859080-001	9	746	THREAD SEALANT (E-15 & E-85 DISPENSER HOSES & ALL DEF CONNECTIONS)	LOCTITE	567 THREAD SEALANT WITH ACTIVATOR SF 7649	AS REQD	895	4" X 2" X 2" GALVANIZED DOUBLE TAP BUSHING	---	---	AS REQD
626	OVERFILL ALARM	VEEDER ROOT	790091-001	1	ELECTRICAL - CONTRACTOR SUPPLIED				AS REQD	896	4" SCHEDULE 40 GALVANIZED UNION	---	---	AS REQD
627	OVERFILL ALARM ACKNOWLEDGEMENT SWITCH	VEEDER ROOT	790095-001	1	ITEM	DESCRIPTION	MAKE	MODEL	QTY.	897	4" SCHEDULE 40 GALVANIZED PIPE CAP	---	---	AS REQD
630	SOLID-STATE CONTAINMENT SUMP SENSOR, NON-DISCRIMINATING - (B-100)	VEEDER ROOT	794380-351	5	751	EXPLOSION PROOF JUNCTION BOX	CROUSE HINDS OR APPLETON	---	AS REQD	911	1" SCHEDULE 40 STAINLESS STEEL (316) PIPE	---	---	AS REQD
631	SUMP SENSOR MOUNTING KIT	VEEDER ROOT	330020-012	32	752	EXPLOSION PROOF CAP ELBOW	CROUSE HINDS OR APPLETON	---	AS REQD	919	1" SCHEDULE 40 STAINLESS STEEL (316) UNION, 250 LB	---	---	AS REQD
632	POSITION SENSITIVE NON-DISCRIMINATING SUMP SENSOR (E-85 COMPATIBLE)	VEEDER ROOT	794380-323	12	753	SEAL OFF	CROUSE HINDS OR APPLETON	---	AS REQD	920	1" SCHEDULE 40 STAINLESS STEEL (316) PLUG	---	---	AS REQD
633	DUAL POINT SENSOR WITH VENTED CAP	VEEDER ROOT	794380-303	3					AS REQD	931	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) PIPE	---	---	AS REQD
634	NON-DISCRIMINATING PIPING SUMP SENSOR W/ 12-FOOT CABLE	VEEDER ROOT	794380-208	15					AS REQD	934	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) 90-DEGREE ELBOW	---	---	AS REQD
635	4-INCH EVR APPROVED TANK MONITOR CAP & ADAPTER KIT WITH 1/2-INCH CONNECTOR	MORRISON BROTHERS	305XPA-1100AKEVR	6					AS REQD	937	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) TEE	---	---	AS REQD
636	10-FOOT STAINLESS STEEL ALTERNATIVE FLUID MAG PLUS TANK PROBE WITH HGP CANISTER AND WATER DETECTION	VEEDER-ROOT	846397-309	4					AS REQD	939	1-1/2" SCHEDULE 40 STAINLESS STEEL (316) UNION, 250 LB	---	---	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					AS REQD	941	1-1/2" X 1" STAINLESS STEEL (316) HEX BUSHING	---	---	AS REQD
638	MAG PLUS FLOAT KIT, 4", WITH PHASE SEPARATION DETECTION WITH 5' CABLE (GASOLINE)	VEEDER ROOT	886100-000	3					AS REQD	950	4" X 2" STAINLESS STEEL (316) HEX BUSHING	---	---	AS REQD
639	MAG PLUS FLOAT KIT, 4" WITH 5' CABLE (DIESEL & BIO-DIESEL)	VEEDER ROOT	846400-001	2					AS REQD	951	2" SCHEDULE 40 STAINLESS STEEL (316) PIPE	---	---	AS REQD
640	MAG PLUS FLOAT KIT, 4", WITHOUT WATER DETECTION WITH 5' CABLE (E-85 & DEF)	VEEDER ROOT	846400-004	1					AS REQD	952	2" SCHEDULE 40 STAINLESS STEEL (316) COUPLER	---	---	AS REQ



NOTES:

1. COORDINATE WITH RACETRAC CIVIL DOCUMENTS.

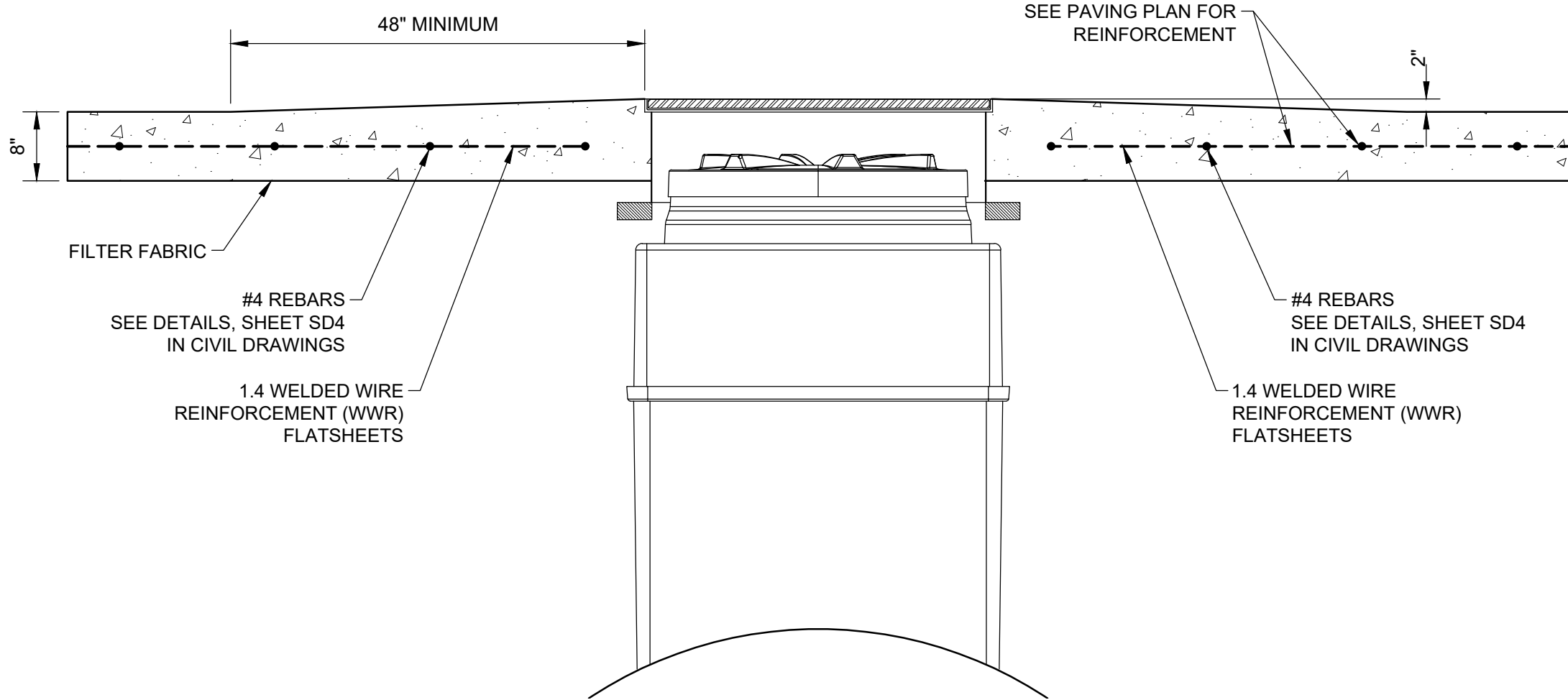
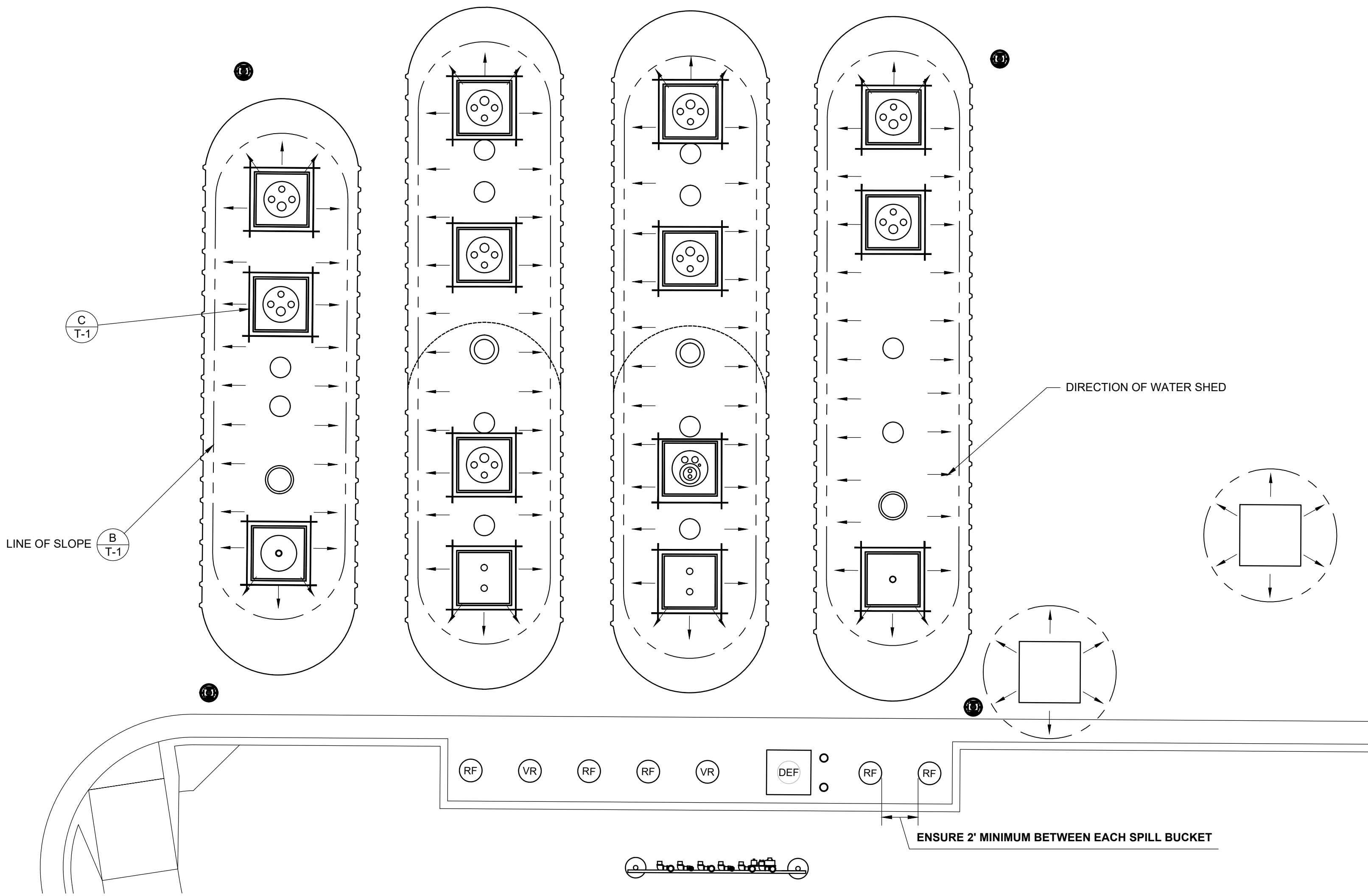
SEE CIVIL DRAWINGS FOR
FULL SITE SPECIFIC
CONCRETE SPECIFICATIONS



A

TANK PAD - PLAN

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



B

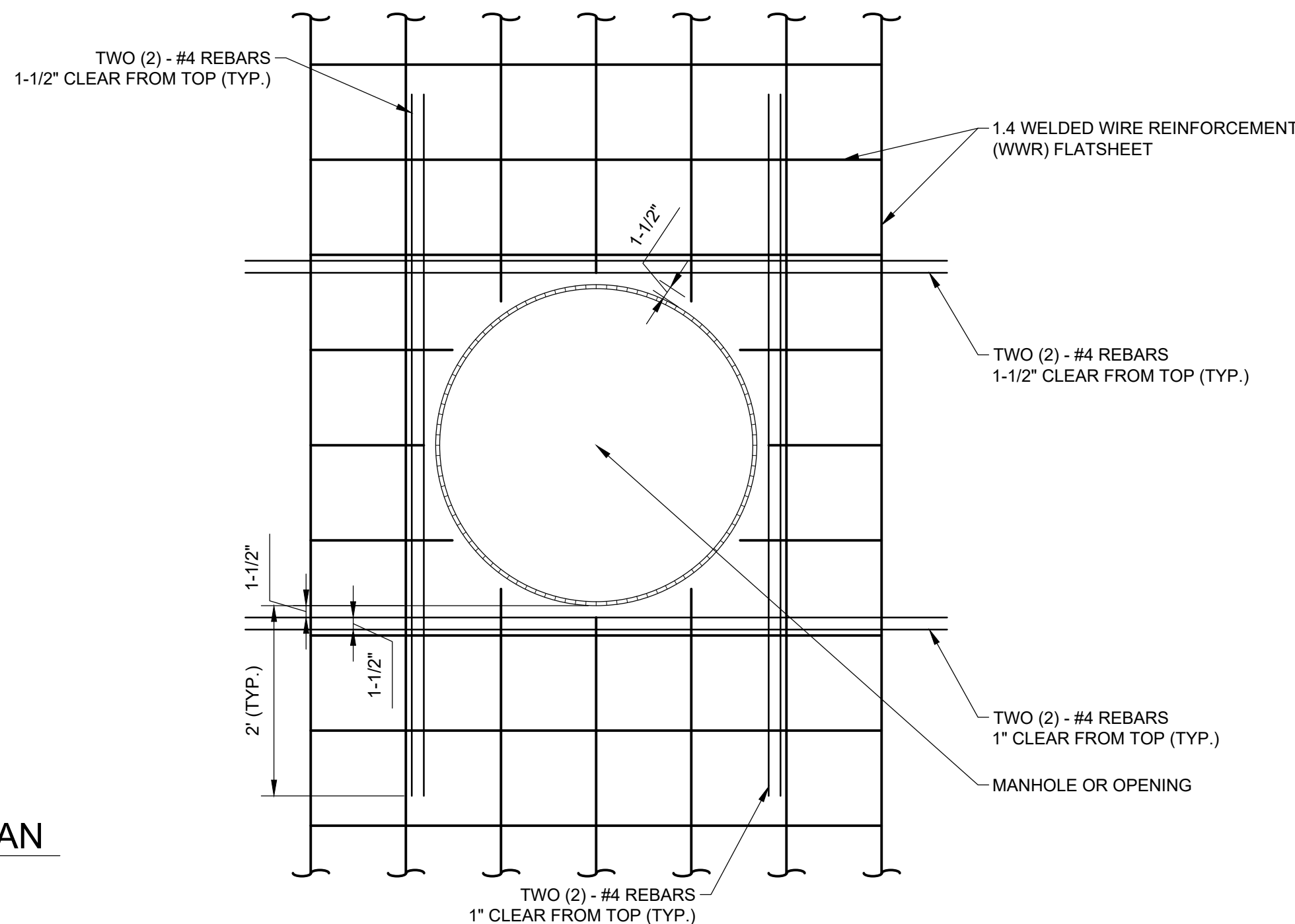
TANK PAD SLOPE - ELEVATION

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

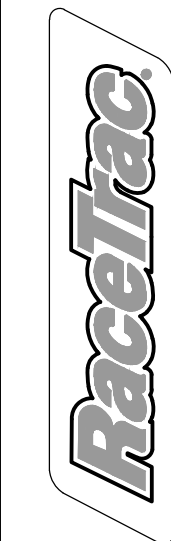
C

TANK MANHOLE PLAN

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



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SUITE 900
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STORE #1635

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TANK PAD DETAILS
EDO SHARED TANK LAYOUT

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

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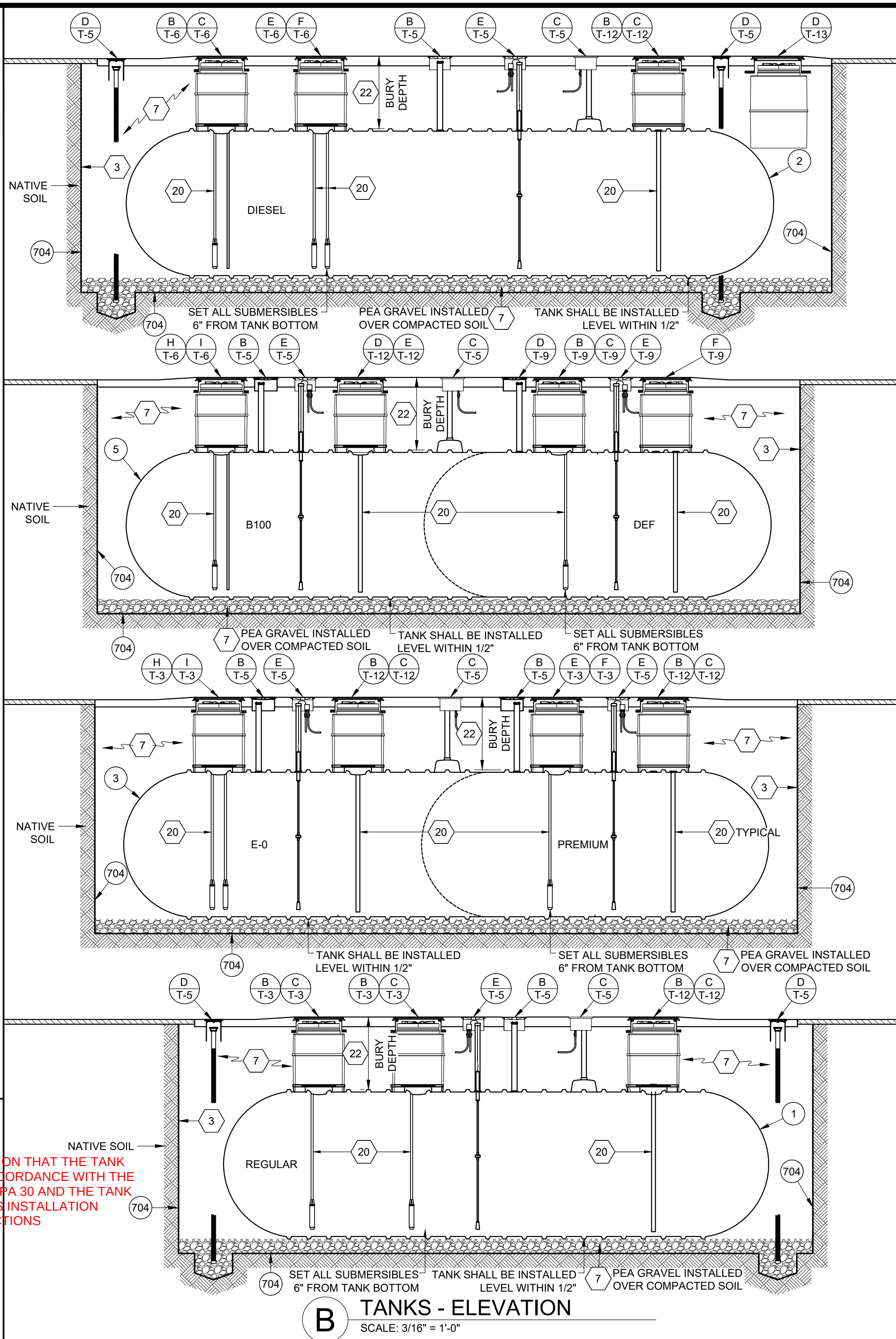
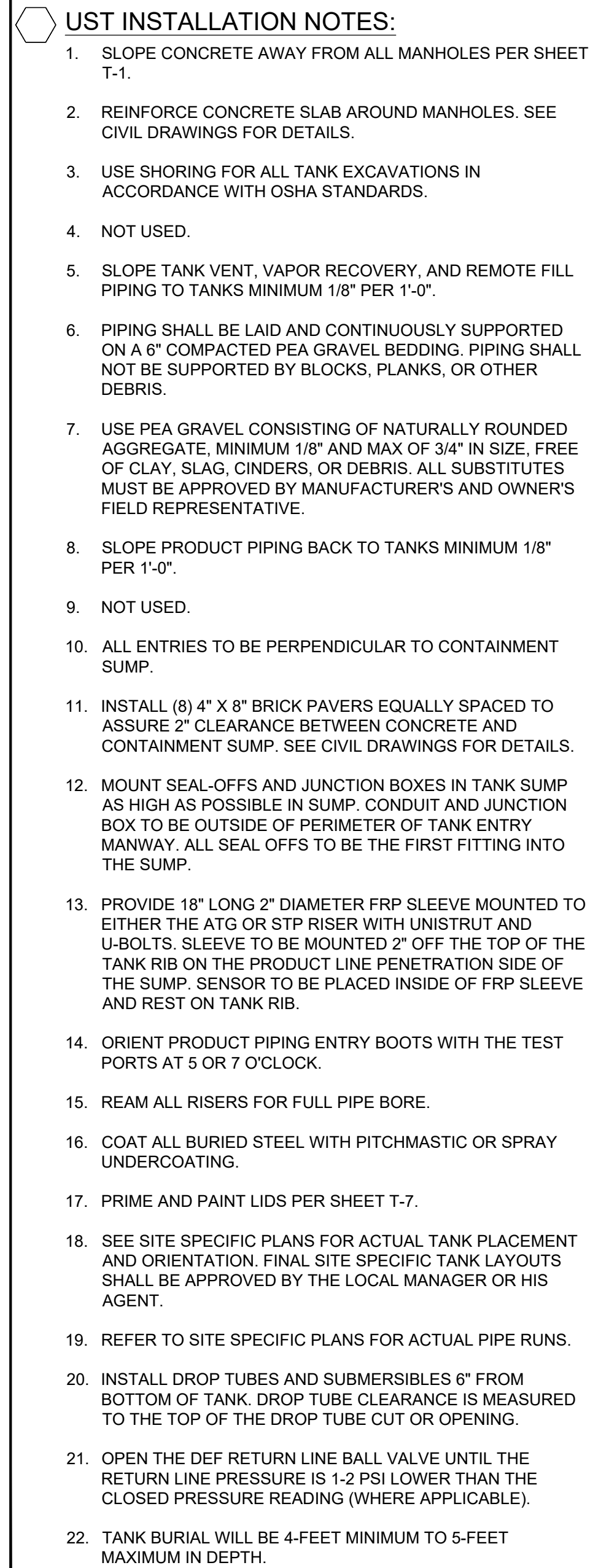
SCALE:
AS NOTED

DATE:
11/29/2023

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BNH

PROJECT NO.:
GA-4605

DRAWING NO.
T-1



- **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.

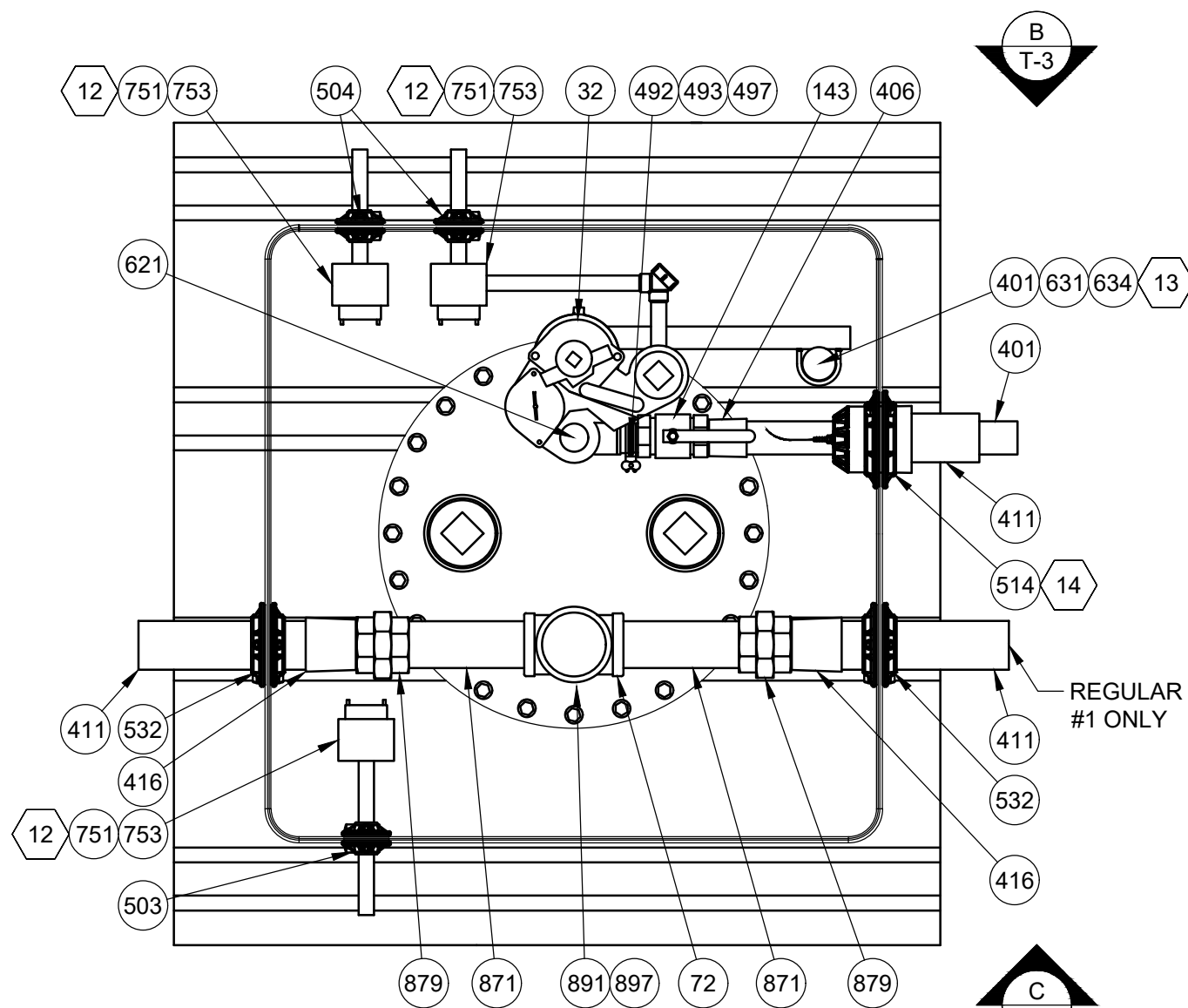
9. ATTACH ALL HOLD DOWN STRAPS TO DEADMAN USING TURNBUCKLES. UNIFORMLY TIGHTEN ALL STRAPS TO ACHIEVE EQUAL TENSION WITHOUT TANK DEFLECTION.

10. INSTALL TURNBUCKLES AS SPECIFIED AND SUPPLIED BY TANK MANUFACTURER.

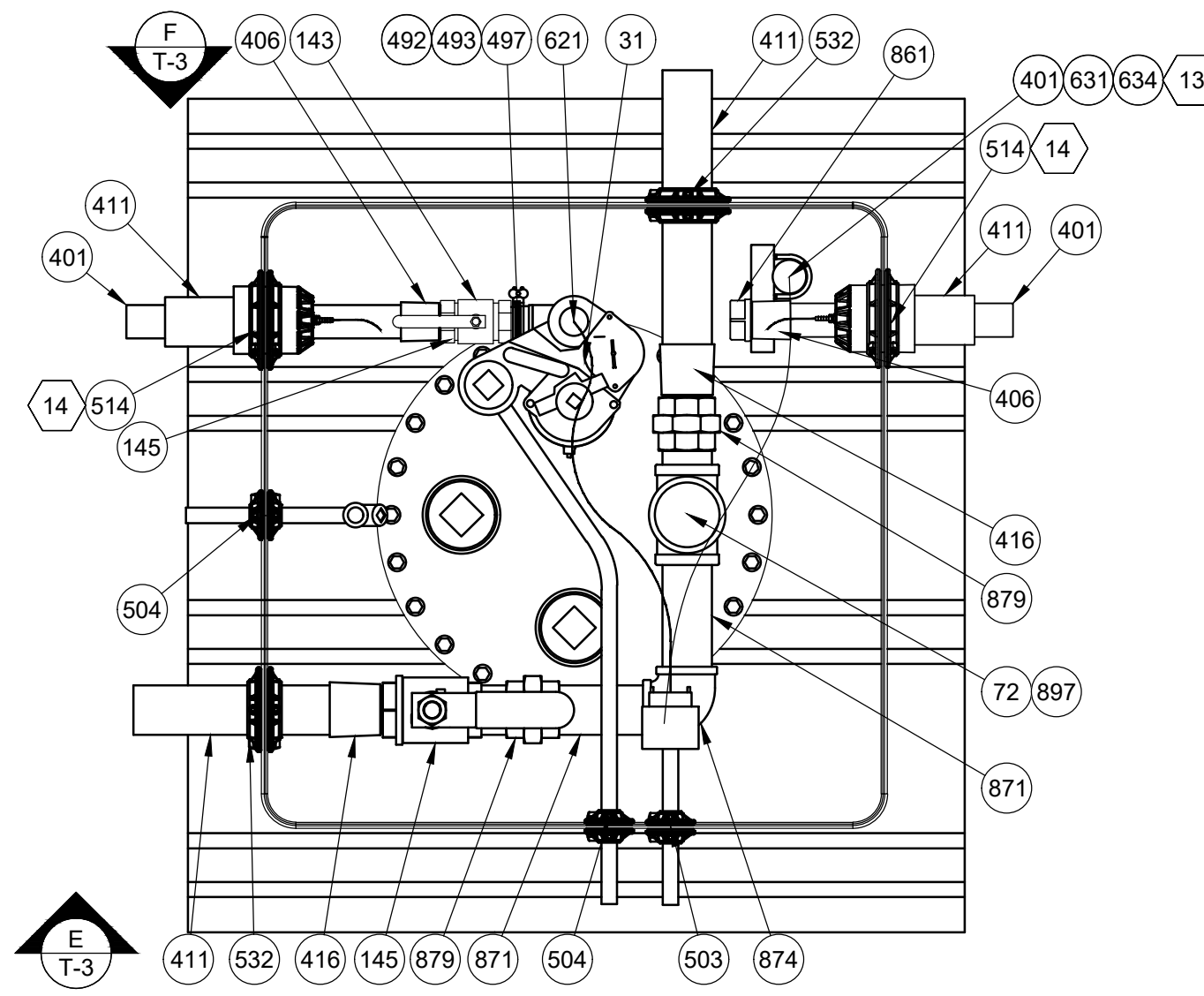
11. COAT ALL EXPOSED STRAPS, TURNBUCKLES AND REINFORCING BARS WITH PITCHMASTIC.

12. INSTALL UST'S SO THAT TOP OF TANKS ARE AT SAME HEIGHT.

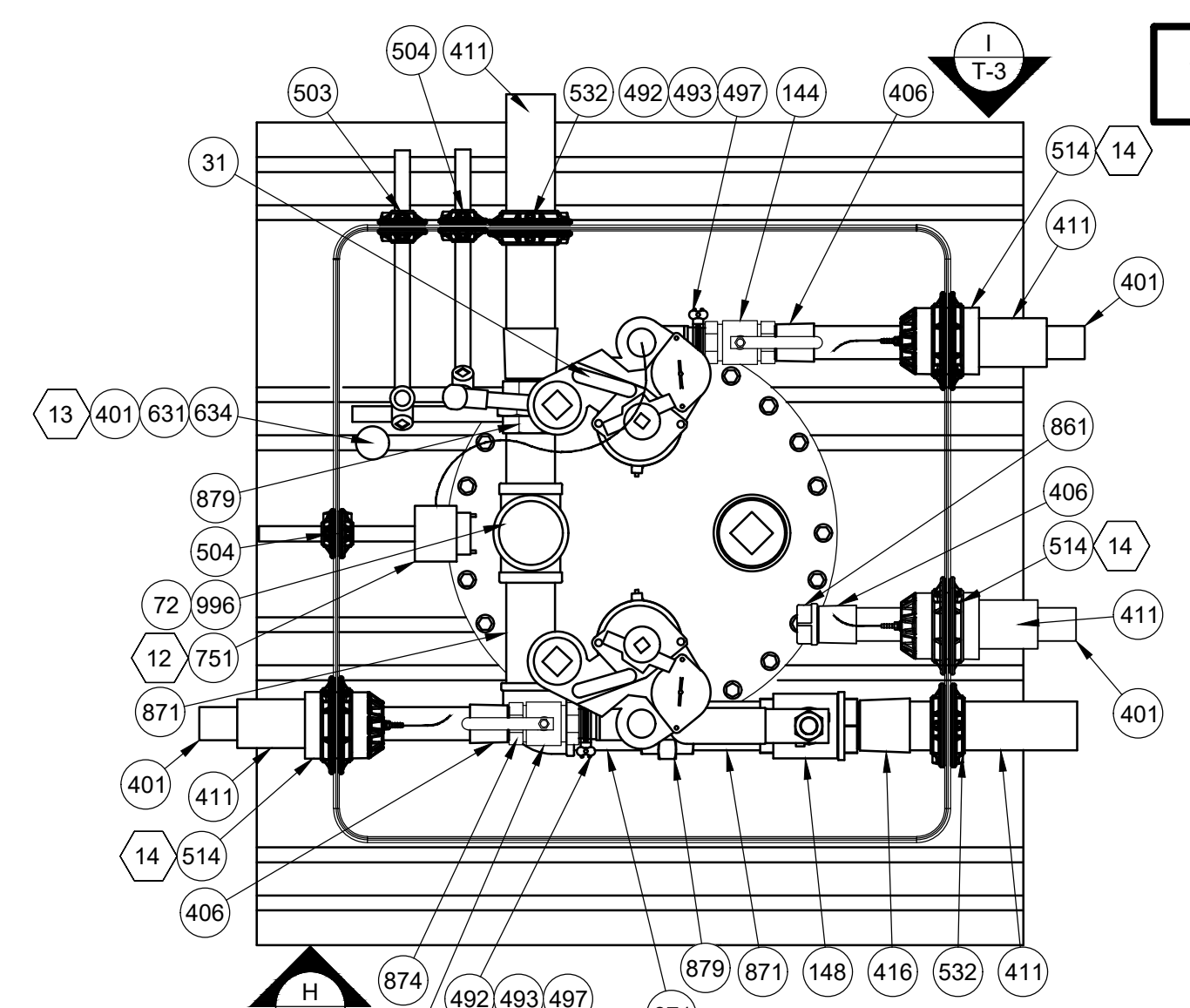
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STORE #1635 2670 LAKE OCONEE PARKWAY GREENSBORO, GA 30642							
 DIAMOND Z ENGINEERING, INC.							
UNDERGROUND STORAGE TANK INSTALLATION DETAILS EDO SHARED TANK LAYOUT							
DIAMOND Z ENGINEERING, INC. 5670 STATE ROAD CLEVELAND, OH 44134 PHONE: 440-842-6501							
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SCALE: AS NOTED		DATE: 11/29/2023					
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DRAWING NO. T-2							



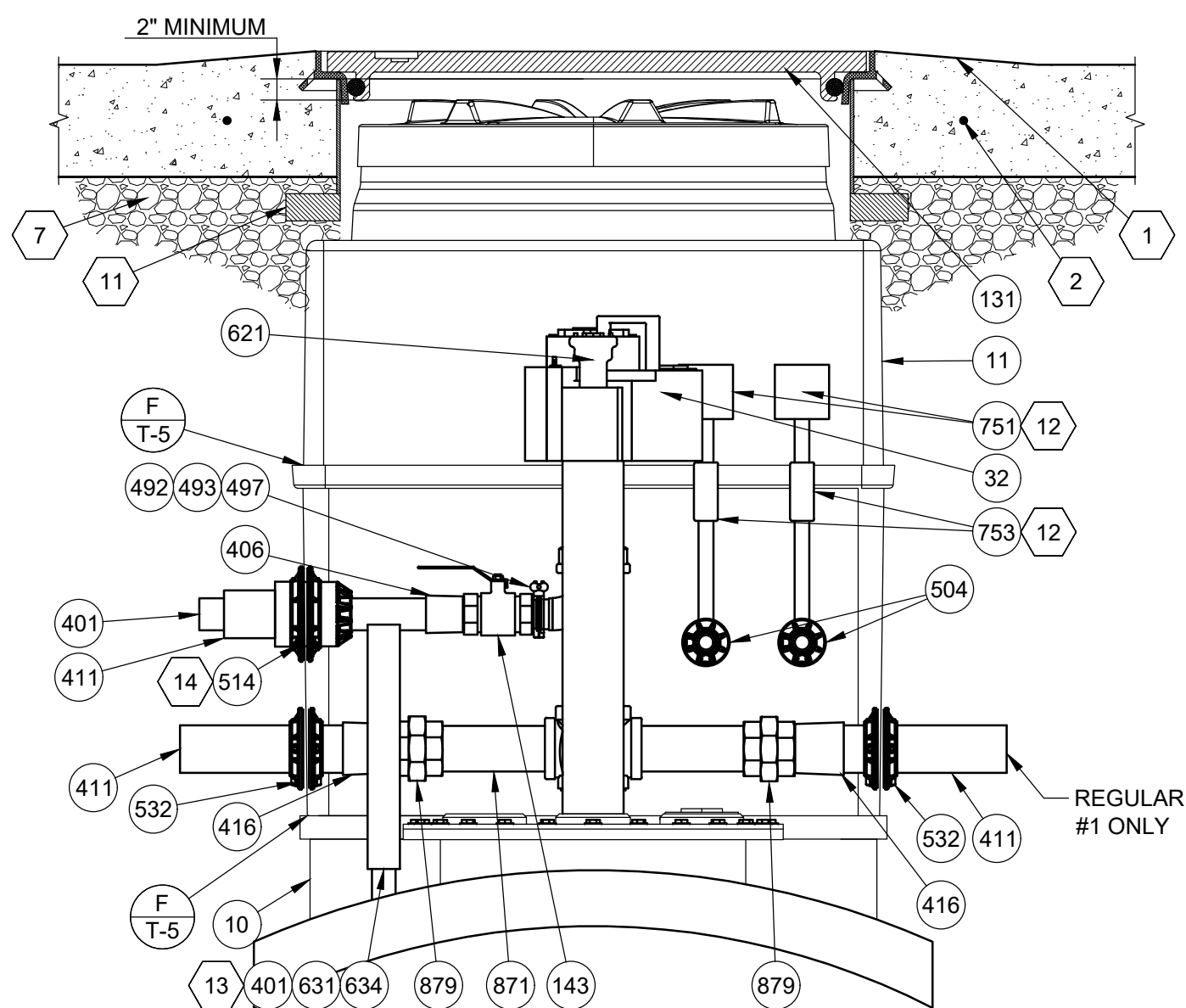
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SCALE: 1" = 1'-0"



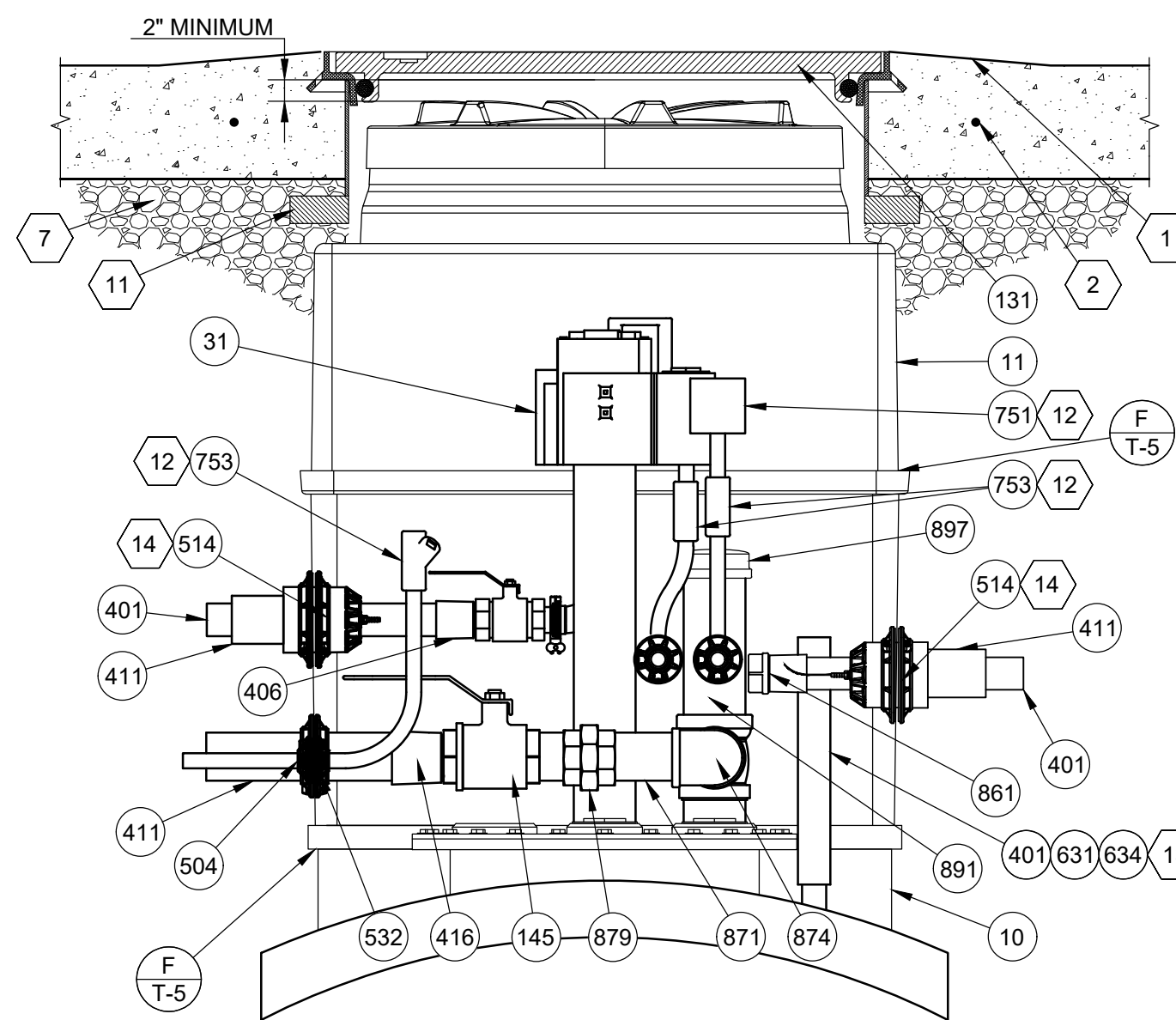
D PREMIUM SUMP - PLAN
SCALE: 1" = 1'-0"



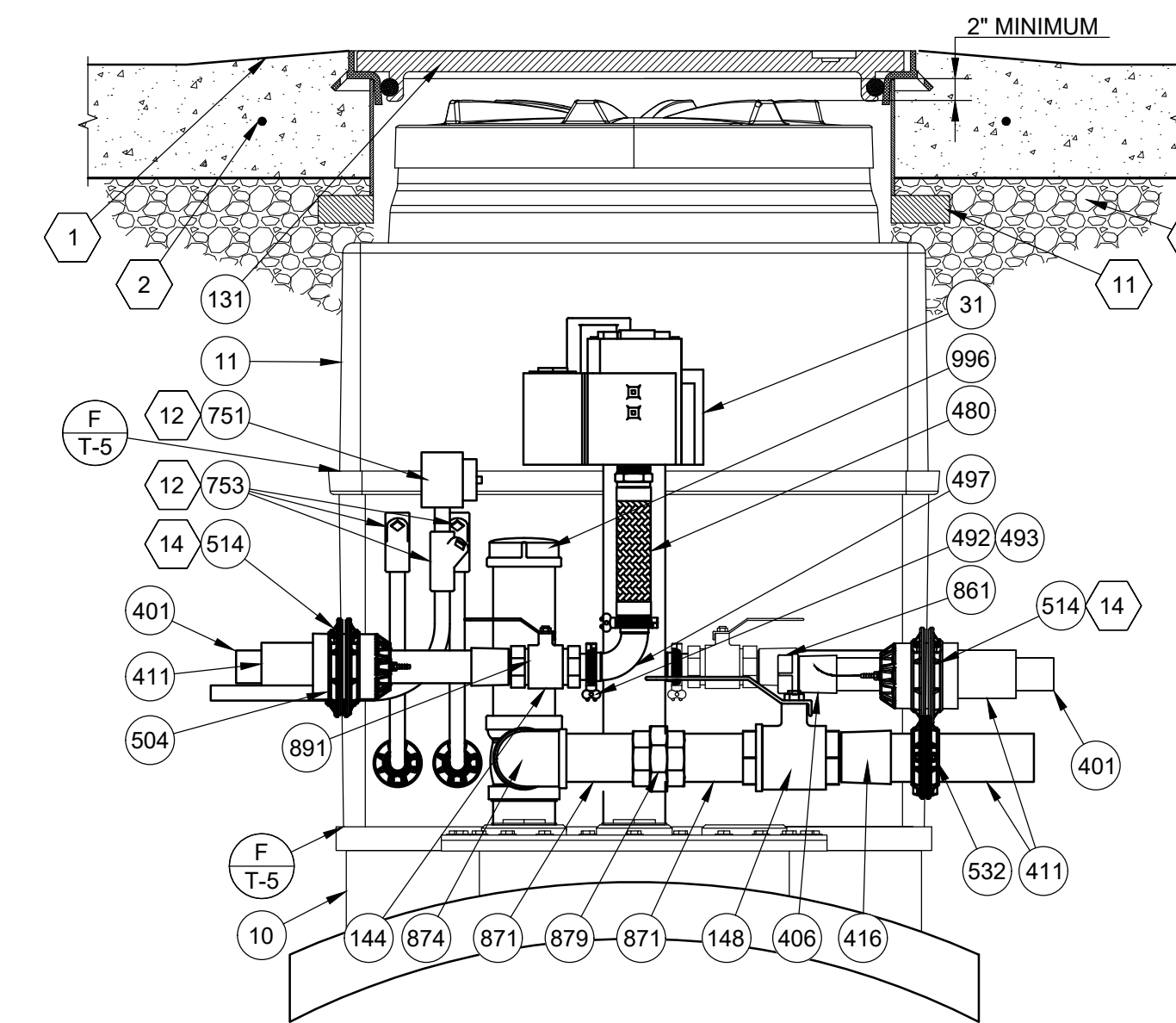
G E-0 SUMP - PLAN
SCALE: 1" = 1'-0"



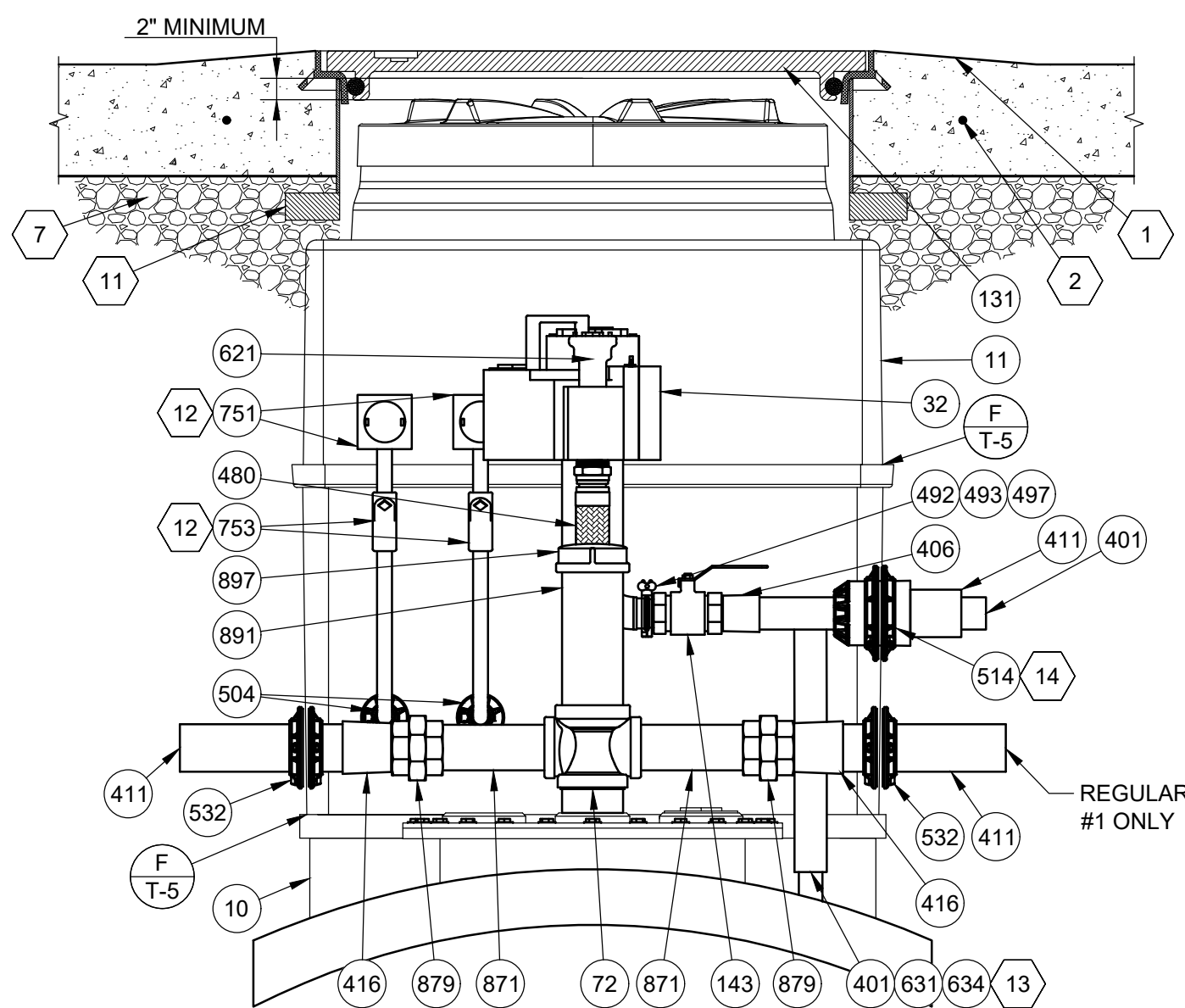
B REGULAR SUMP - ELEVATION
SCALE: 1" = 1'-0"



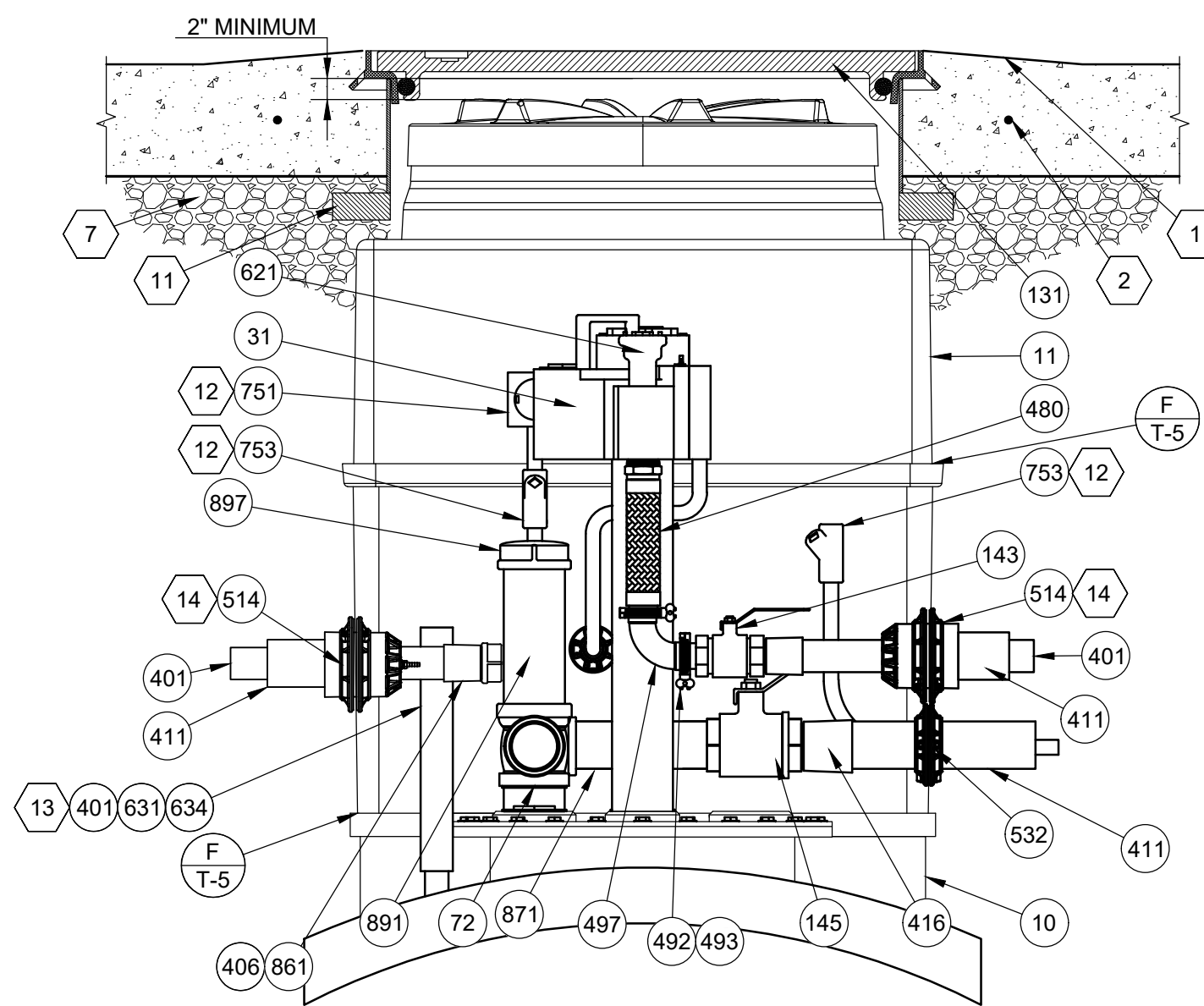
E PREMIUM SUMP - ELEVATION
SCALE: 1" = 1'-0"



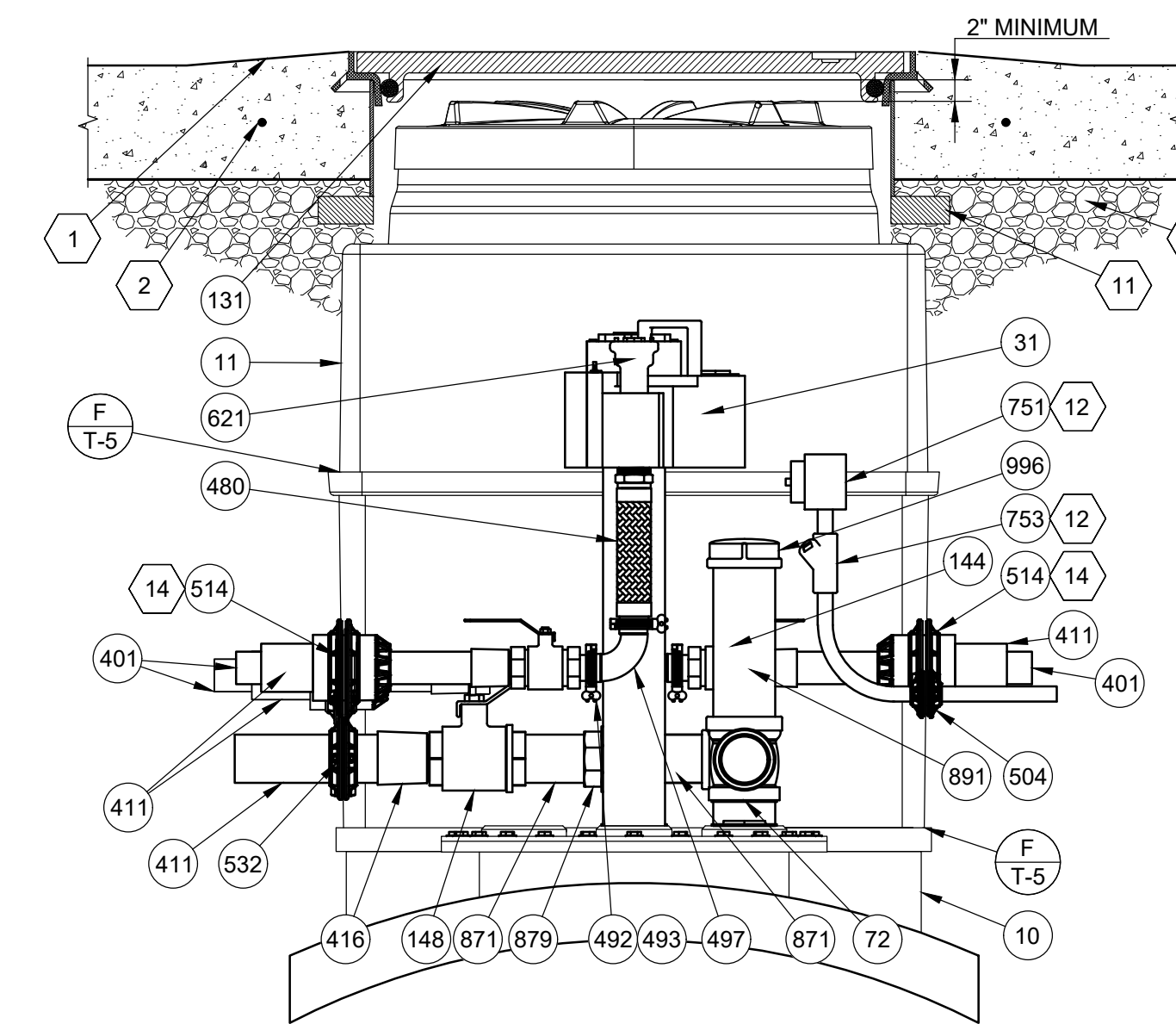
H E-0 SUMP - ELEVATION
SCALE: 1" = 1'-0"



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



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



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

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GREENSBORO, GA 30642

Test boots shall be
situated to allow fluids
to flow into sumps

DIAMOND Z
ENGINEERING, INC.
RETAIL TANK SUMP DETAILS

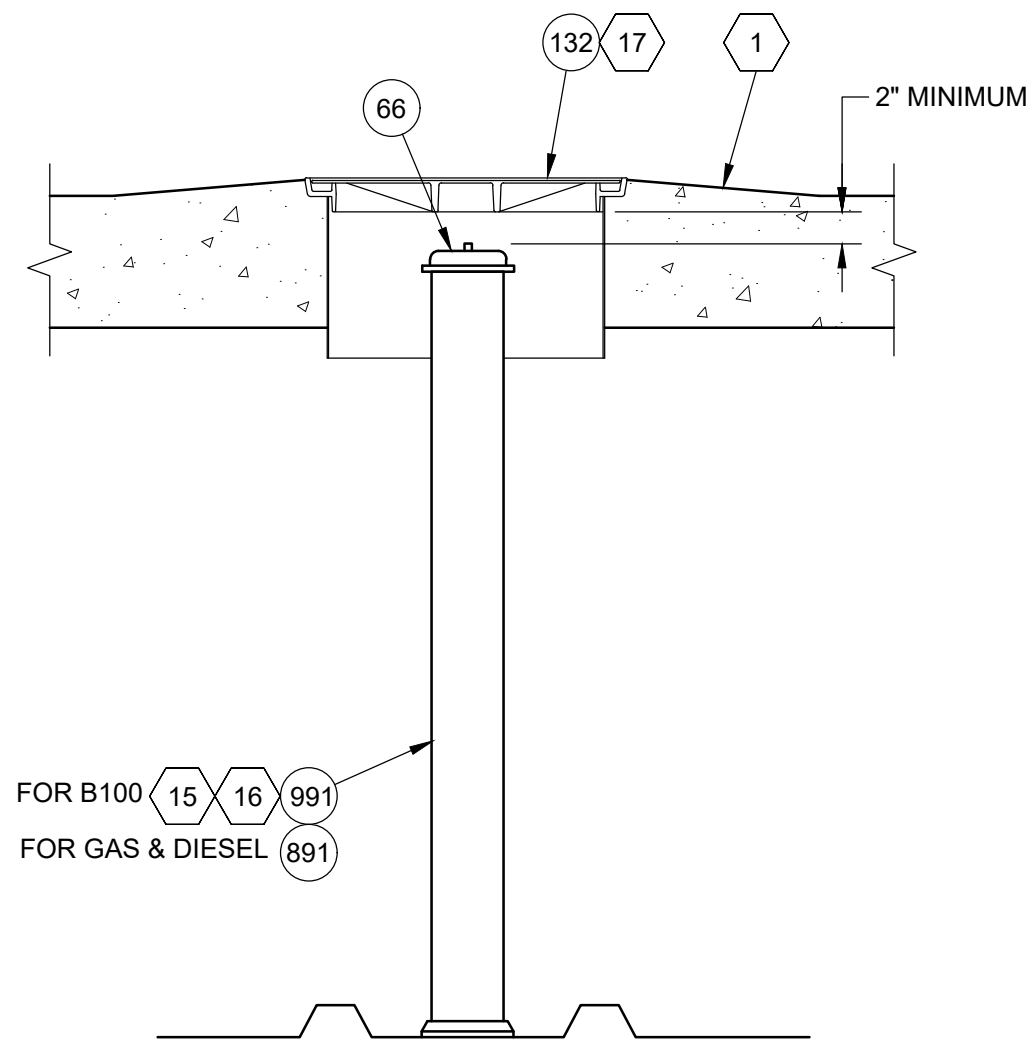
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5670 STATE ROAD
CLEVELAND, OH 44134
PHONE: 440-842-6501

SCALE: 1" = 1'-0"	DATE: 11/29/2023
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DRAWING NO. T-3	

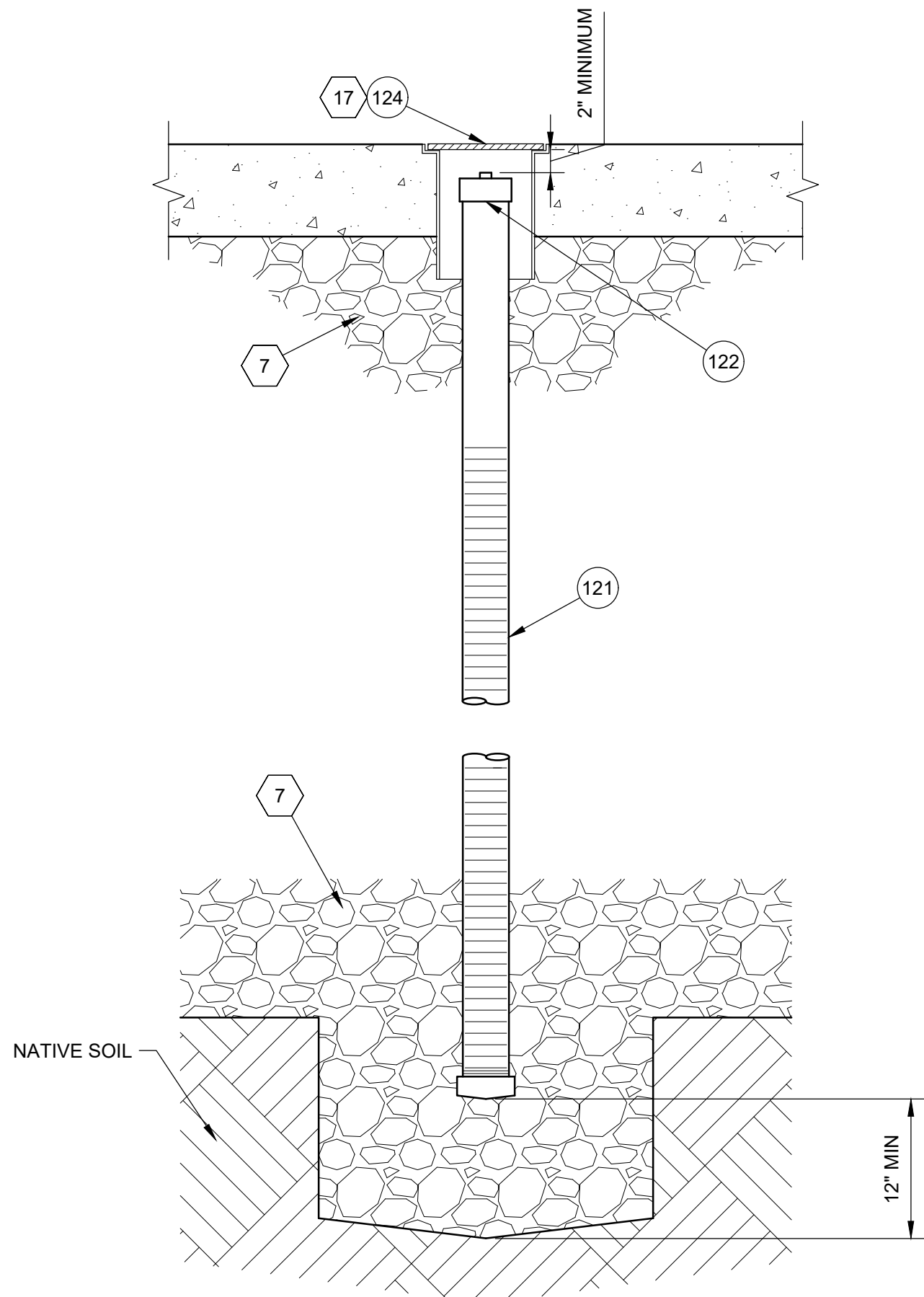
A NOT USED

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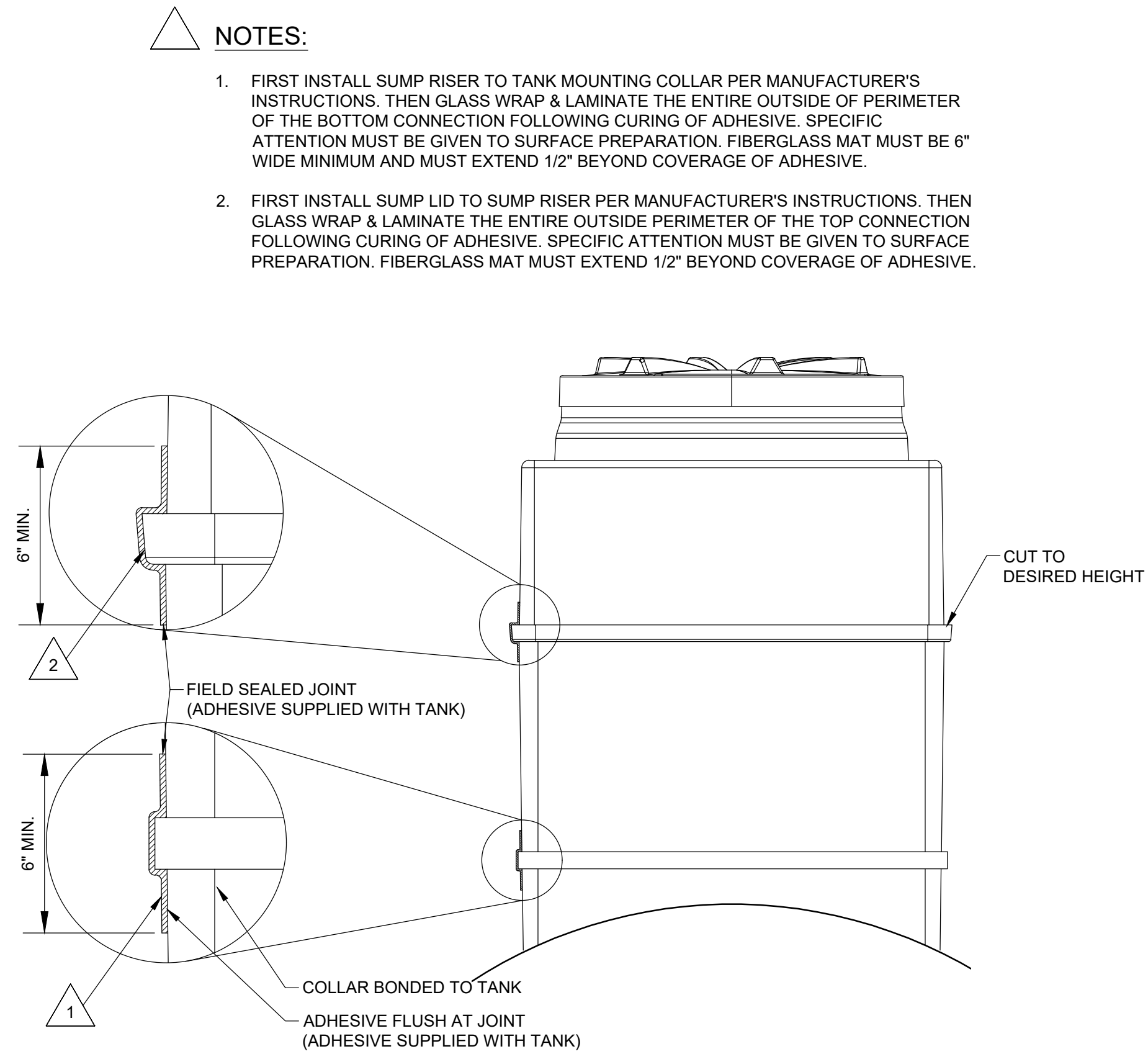
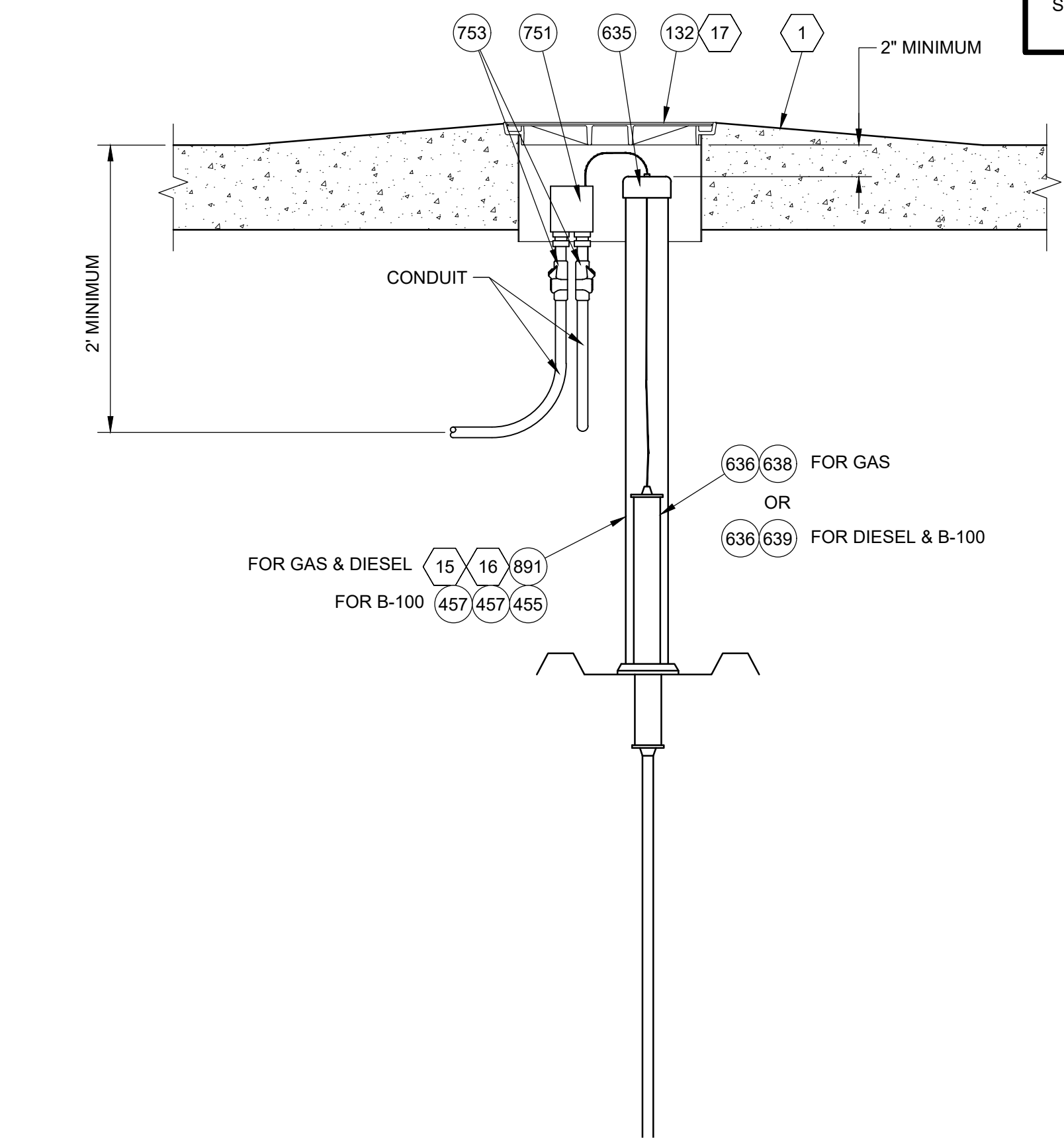
E TANK GAUGE
SCALE: 1" = 1'-0"



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



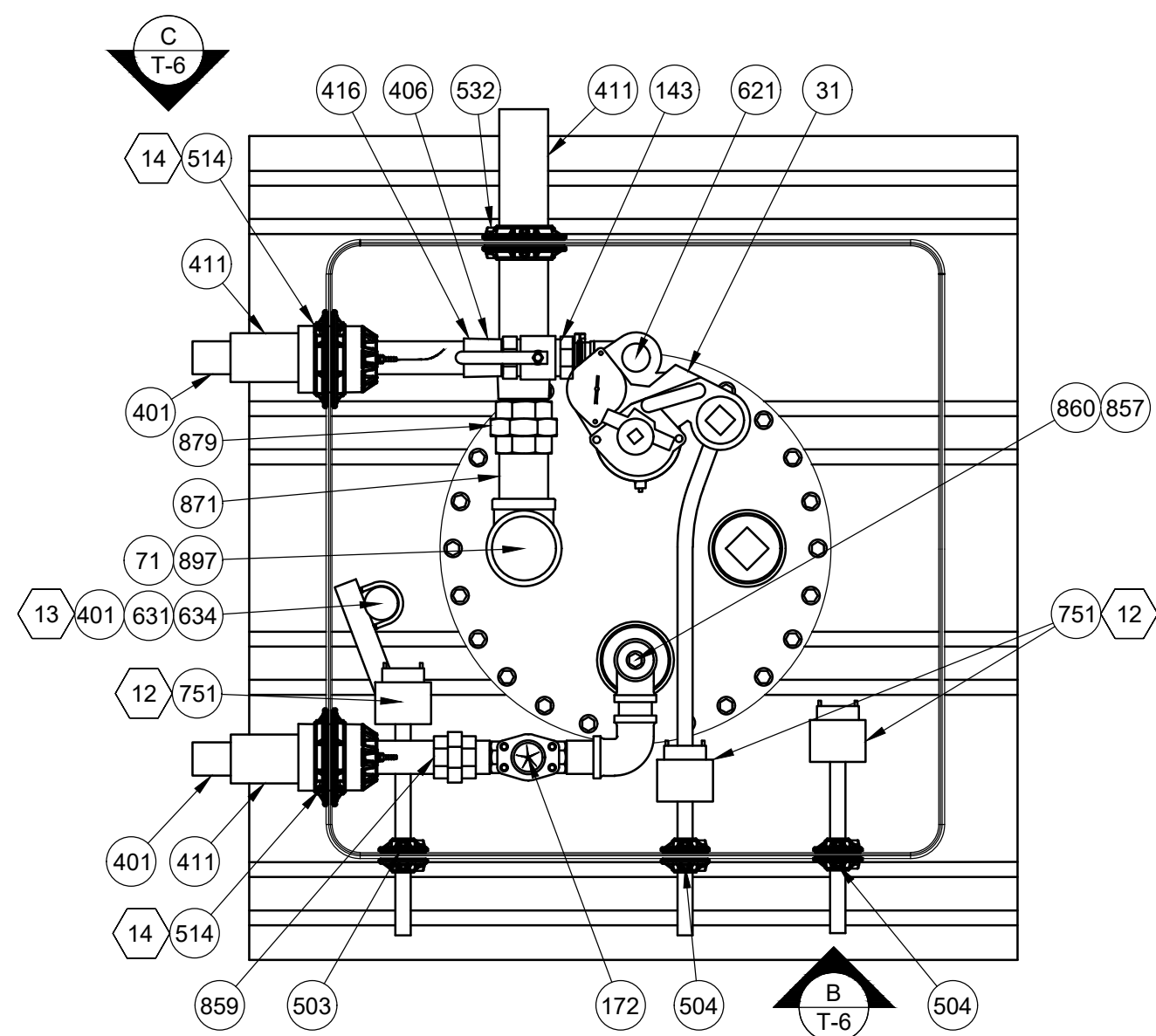
D OBSERVATION WELL (WHERE REQUIRED)
SCALE: 1" = 1'-0"



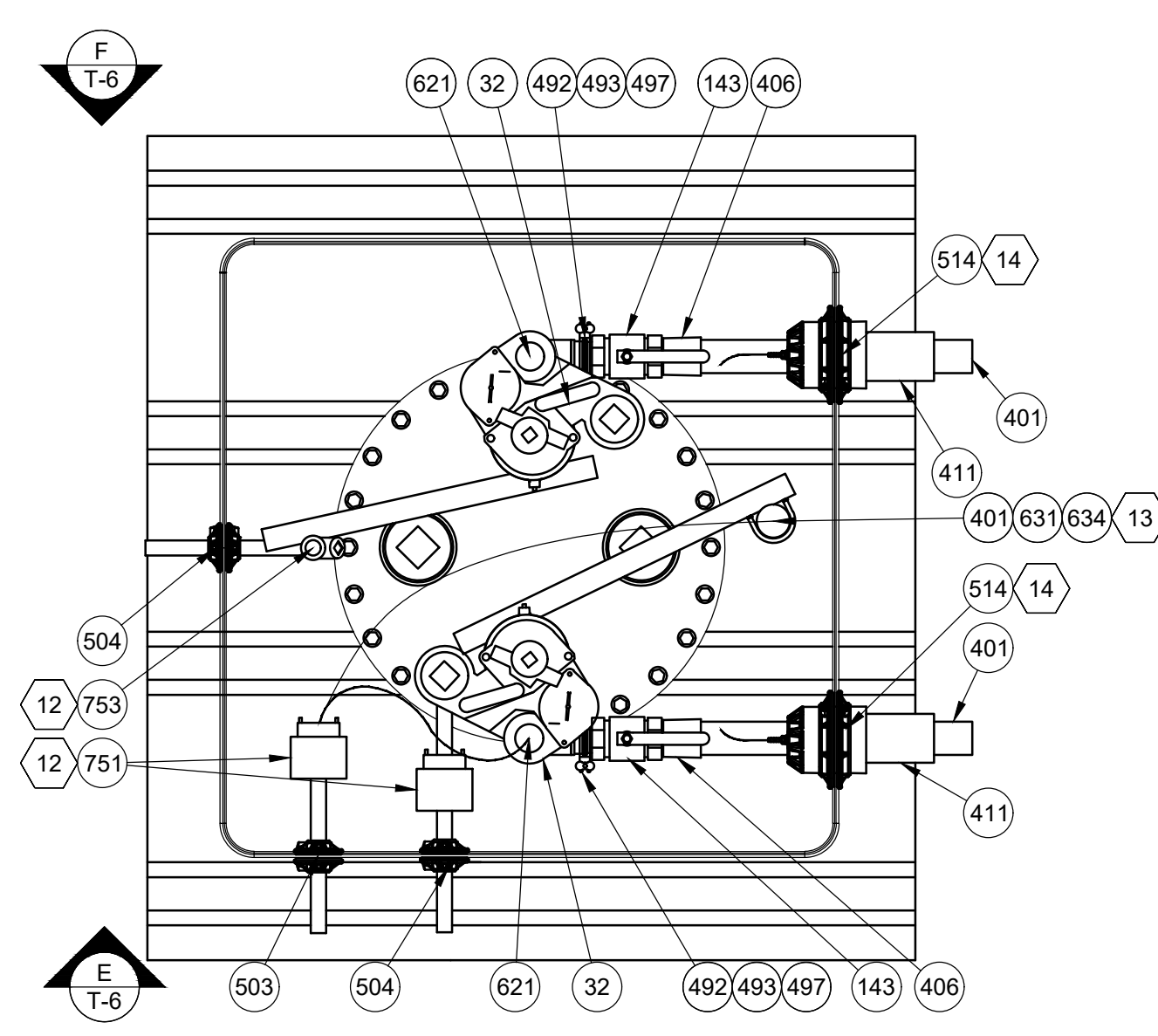
- NOTES:
- FIRST INSTALL SUMP RISER TO TANK MOUNTING COLLAR PER MANUFACTURER'S INSTRUCTIONS. THEN GLASS WRAP & LAMINATE THE ENTIRE OUTSIDE OF PERIMETER OF THE BOTTOM CONNECTION FOLLOWING CURING OF ADHESIVE. SPECIFIC ATTENTION MUST BE GIVEN TO SURFACE PREPARATION. FIBERGLASS MAT MUST BE 6" WIDE MINIMUM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

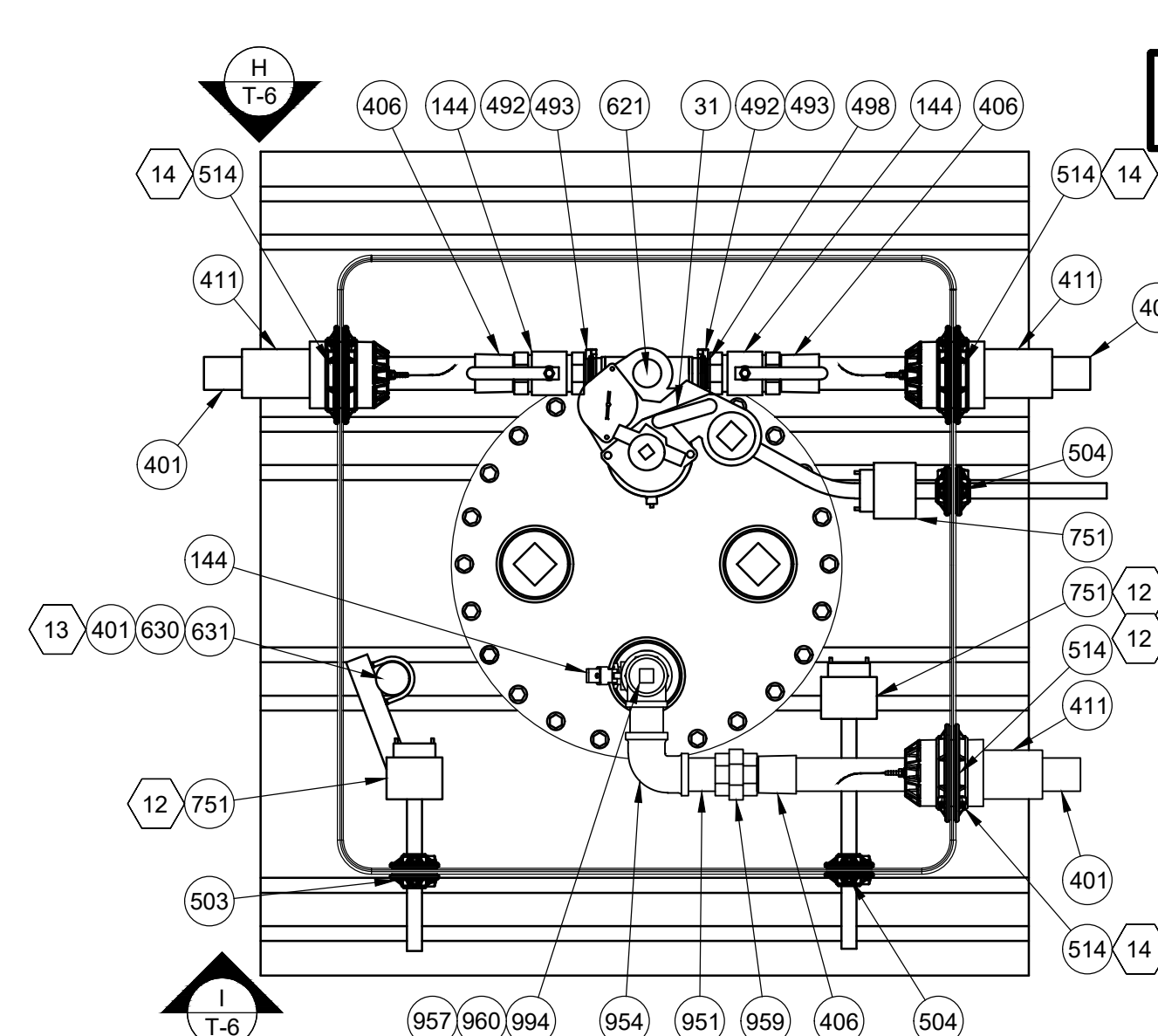
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A	A	A	A	A	A
Racetrac RACETRAC 200 GALLERIA PARKWAY SE SUITE 900 ATLANTA, GA 30339 770.431.7600 STORE #1635 2670 LAKE OCONEE PARKWAY GREENSBORO, GA 30642					
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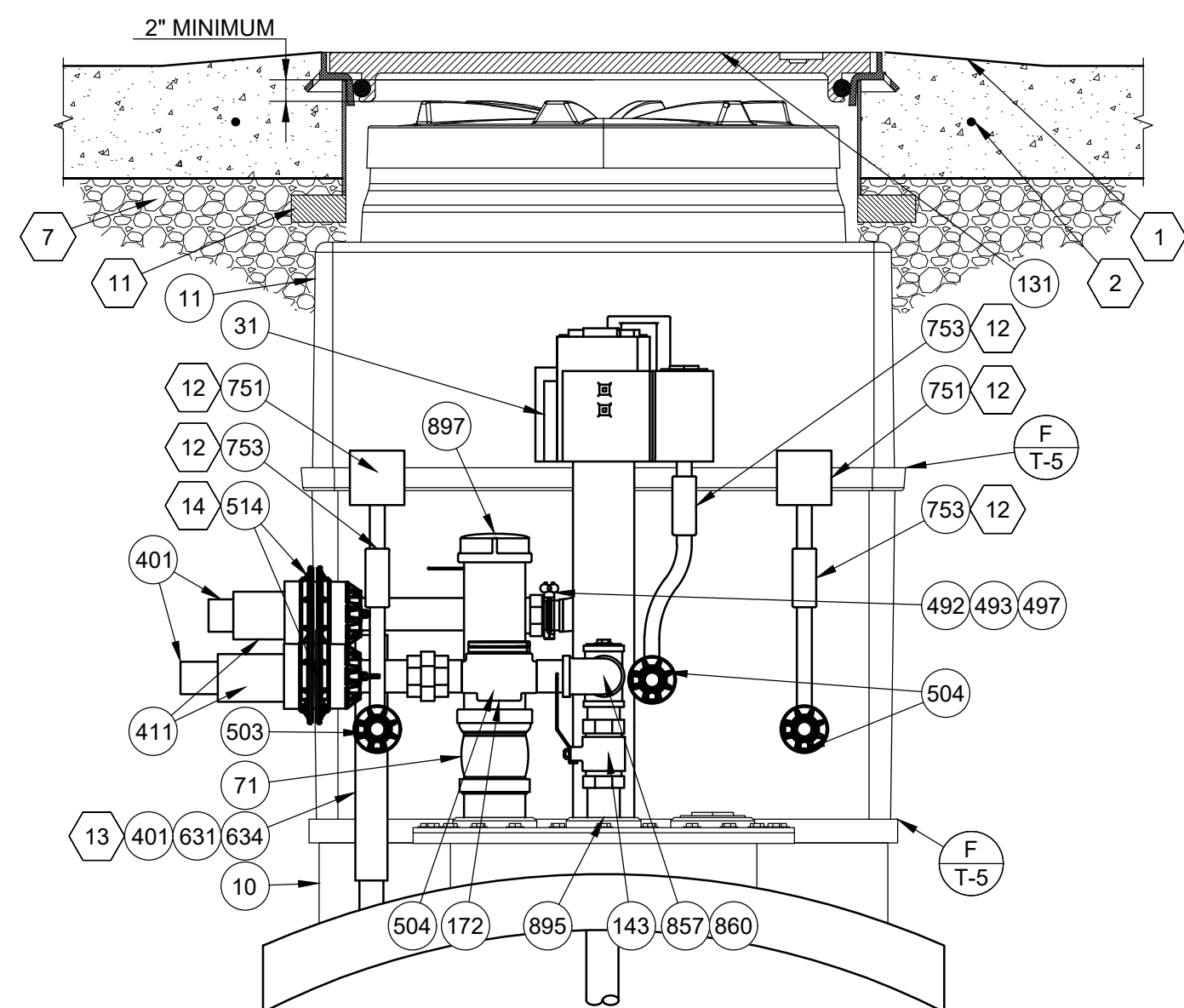
A DIESEL A SUMP - PLAN
SCALE: 1" = 1'-0"



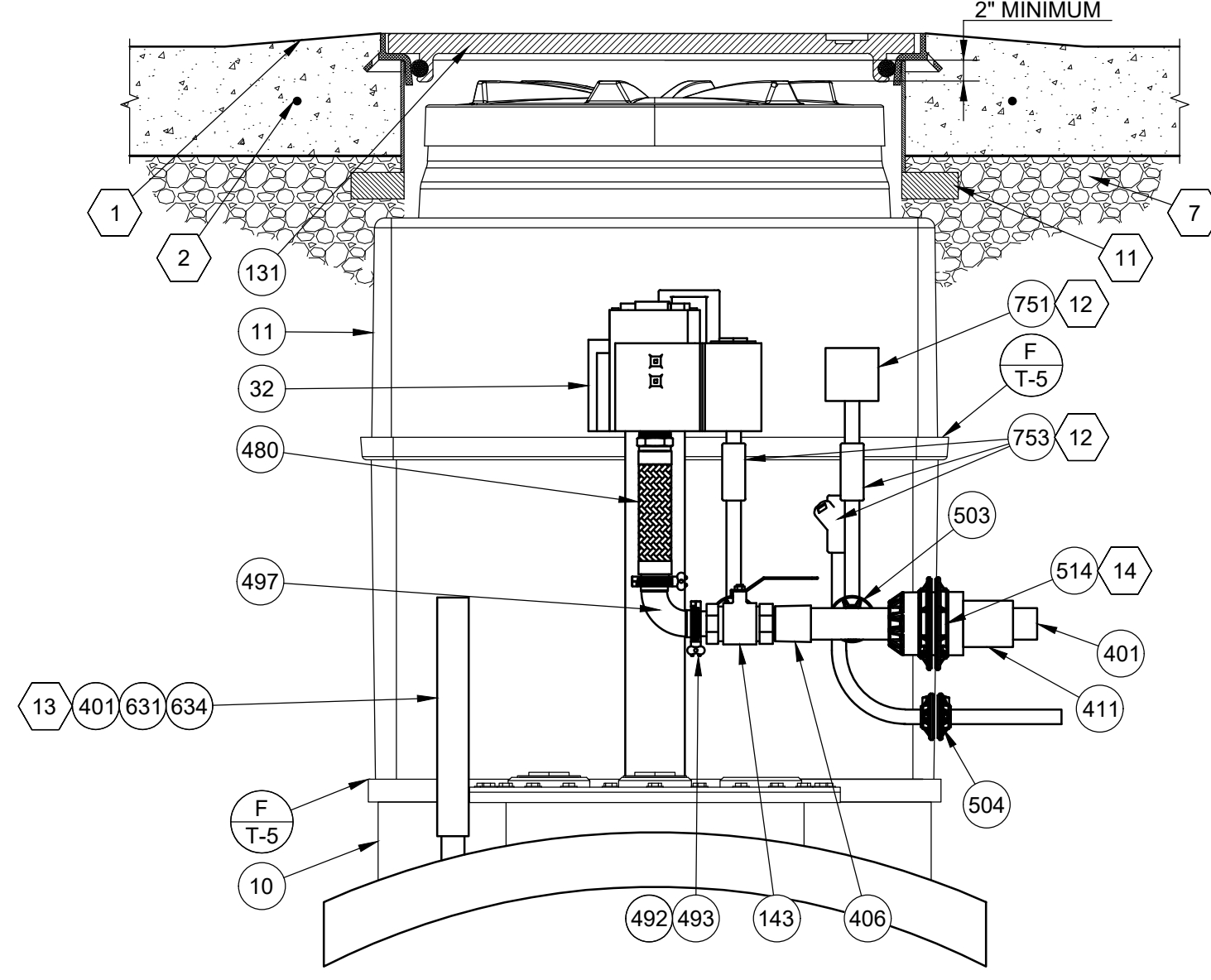
D DIESEL 1 & 2 SUMP - PLAN
SCALE: 1" = 1'-0"



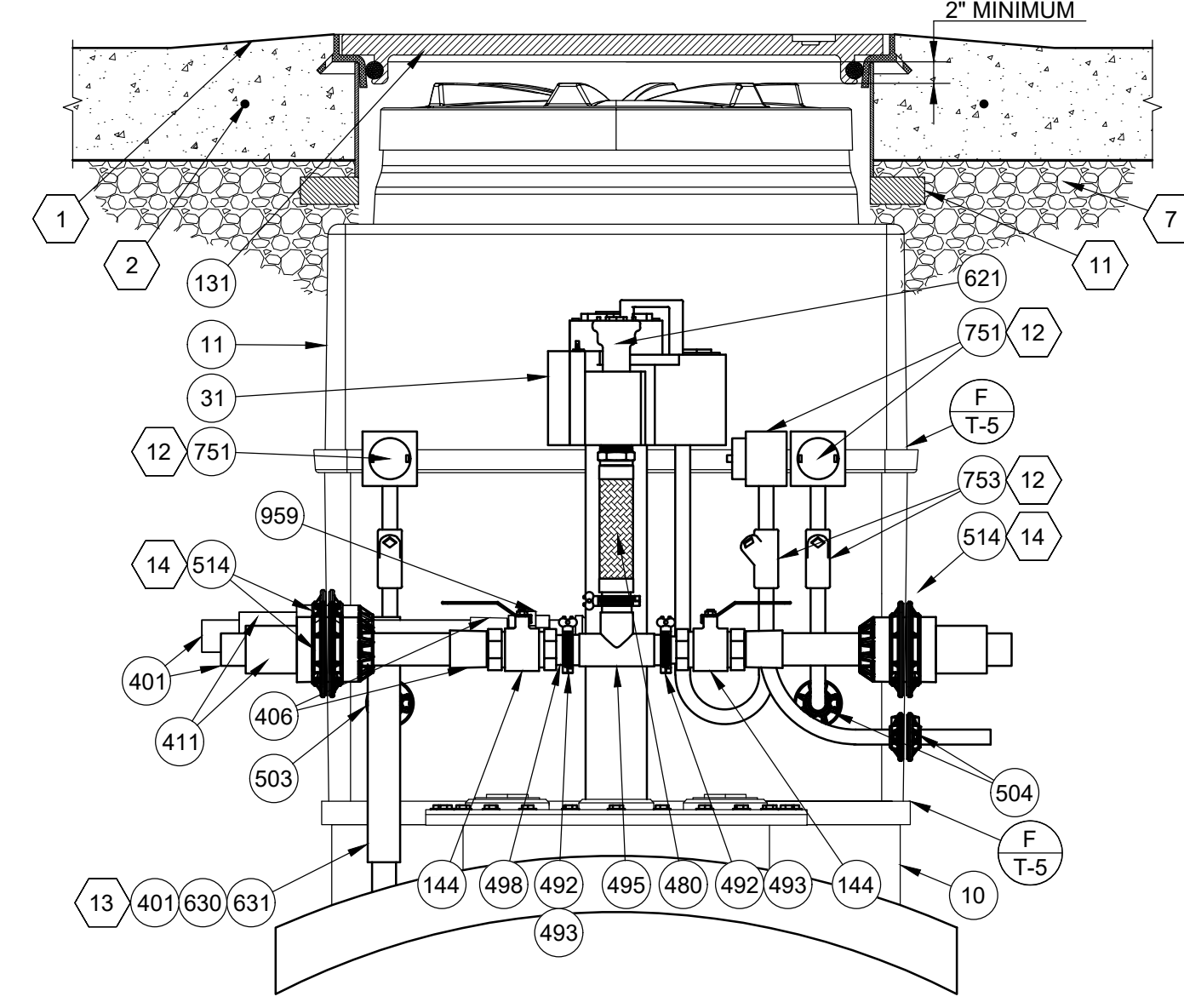
G BIO-DIESEL TANK SUMP - PLAN
SCALE: 1" = 1'-0"



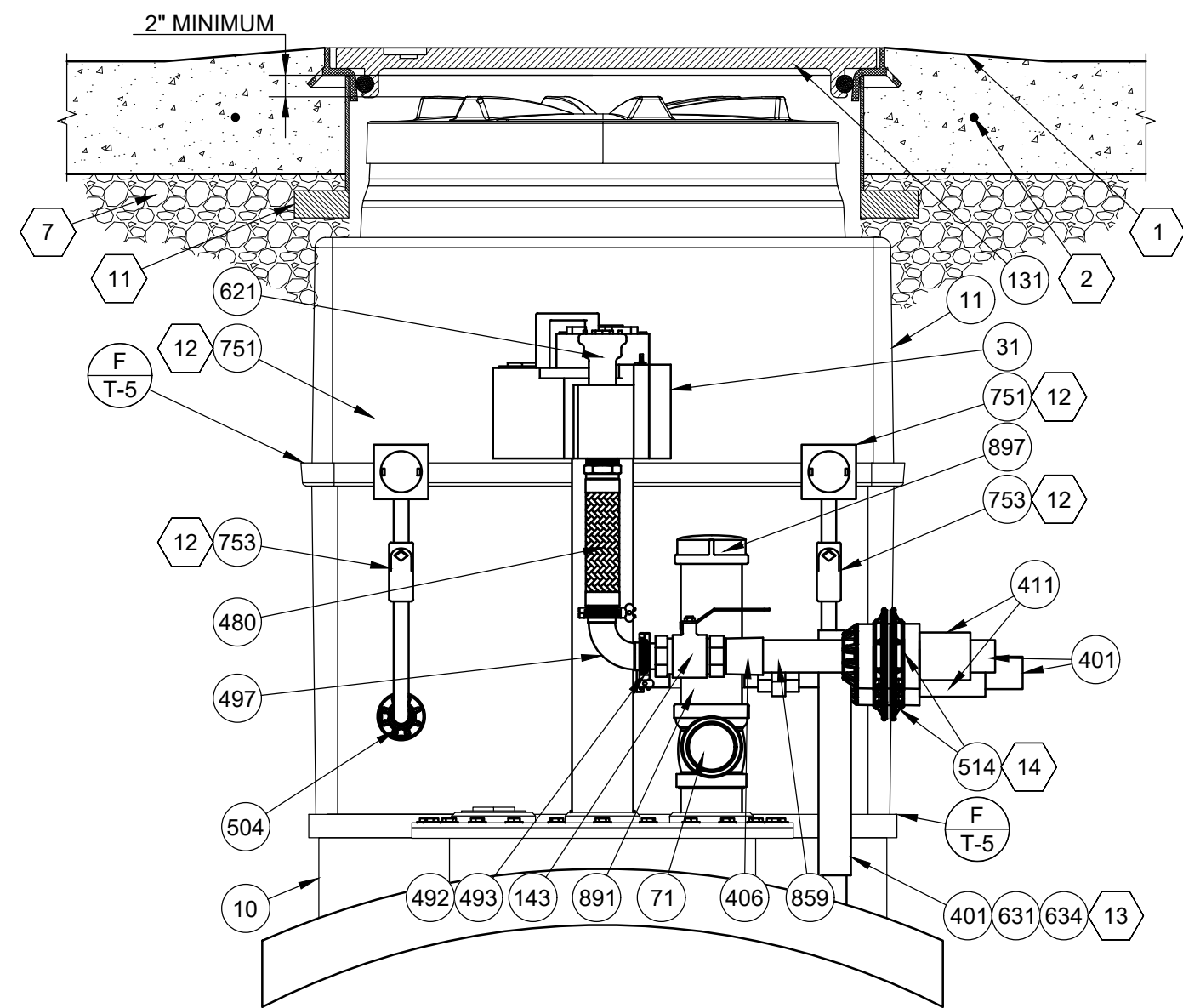
B DIESEL A SUMP - ELEVATION
SCALE: 1" = 1'-0"



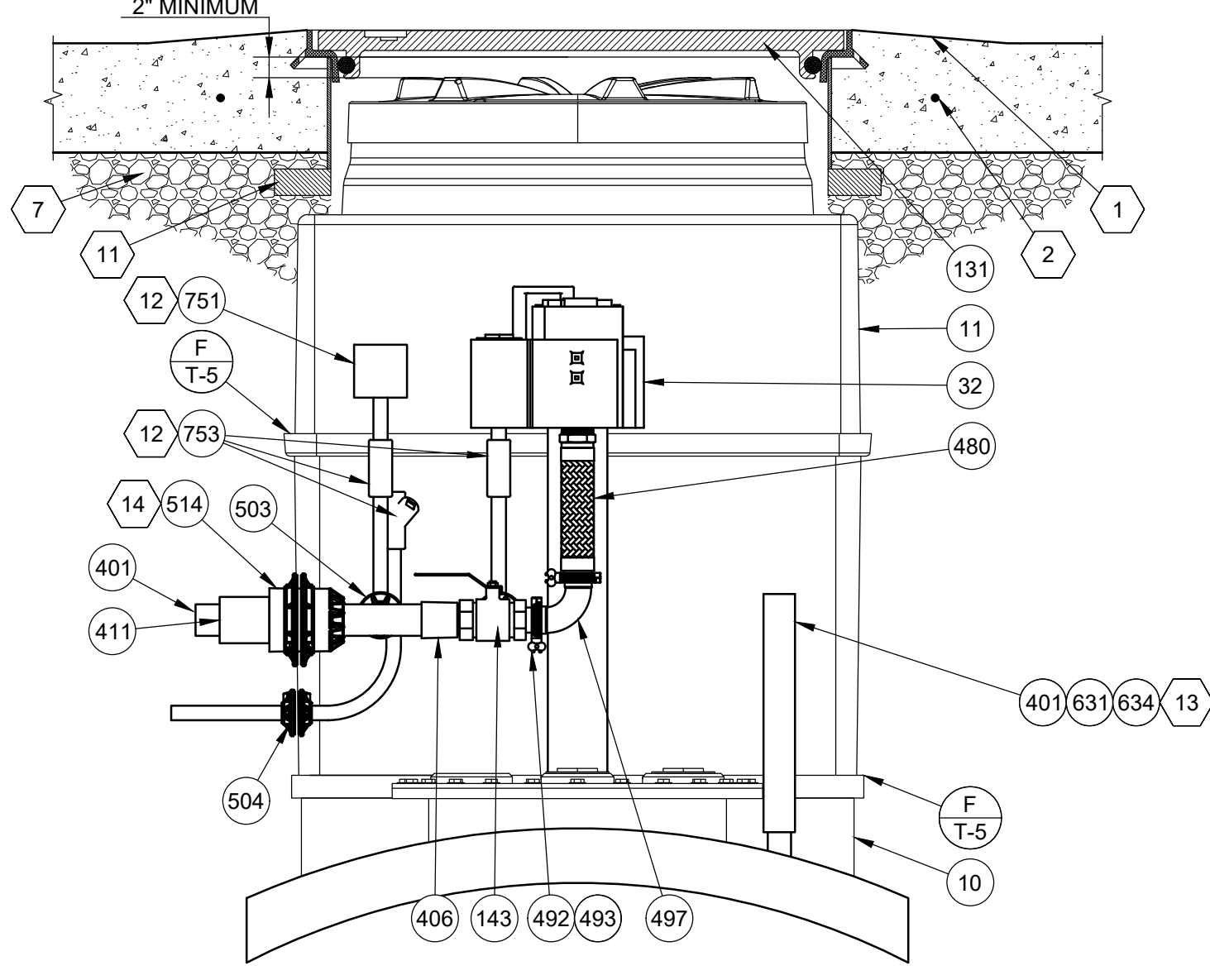
E DIESEL 1 & 2 SUMP - ELEVATION
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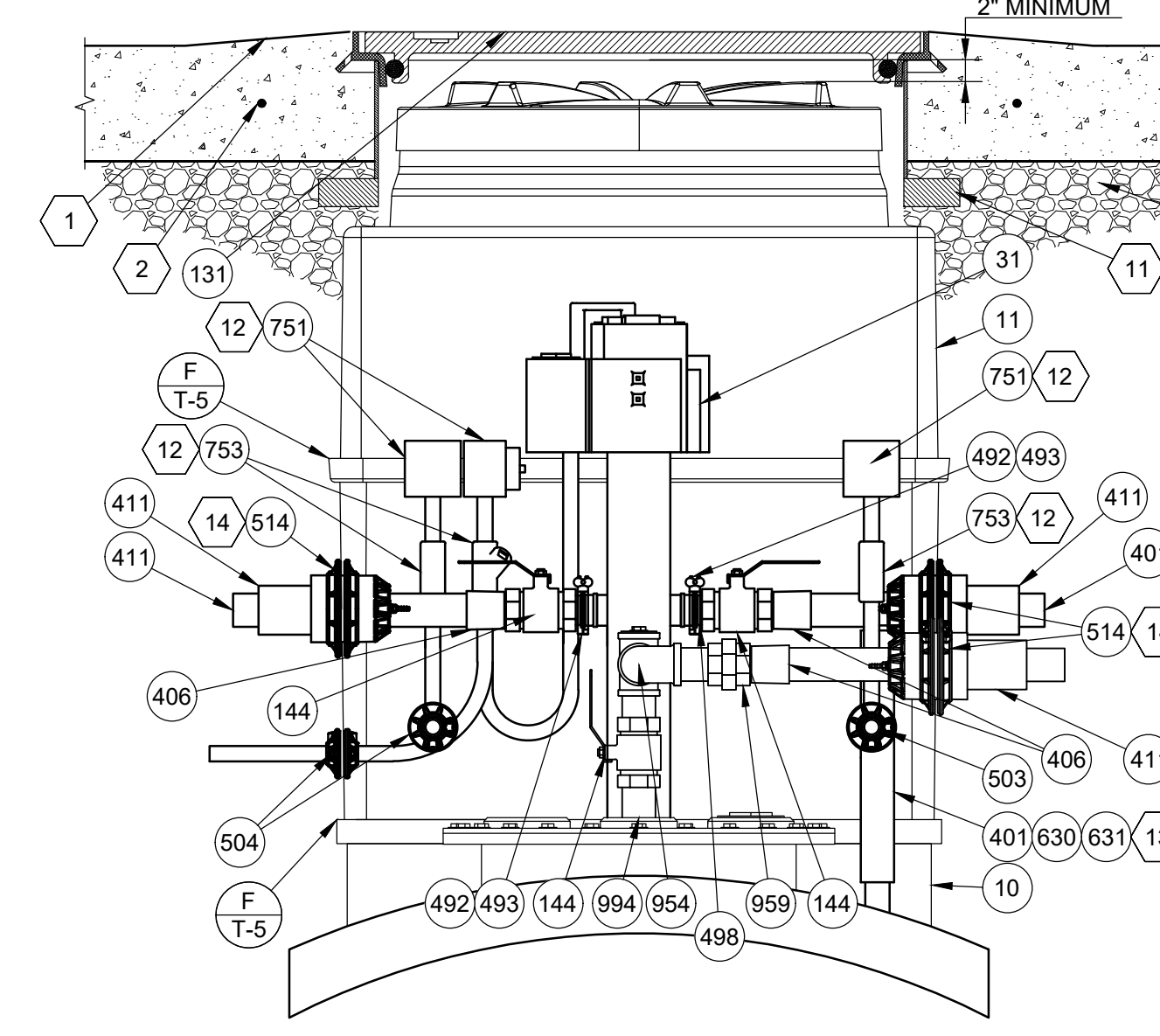
H BIO-DIESEL TANK SUMP - ELEVATION
SCALE: 1" = 1'-0"



C DIESEL A SUMP - ELEVATION
SCALE: 1" = 1'-0"



F DIESEL 1 & 2 SUMP - ELEVATION
SCALE: 1" = 1'-0"



I BIO-DIESEL TANK SUMP - ELEVATION
SCALE: 1" = 1'-0"

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GREENSBORO, GA 30642

Test boots shall be
situated to allow fluids to
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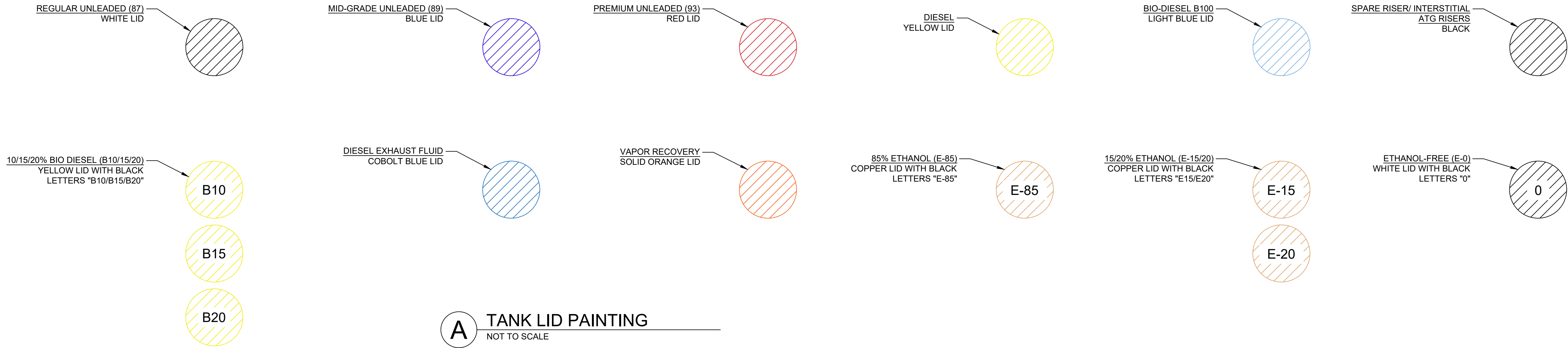
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TRUCK DIESEL SUMP DETAILS -
EDO SHARED

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PHONE: 440-842-6501

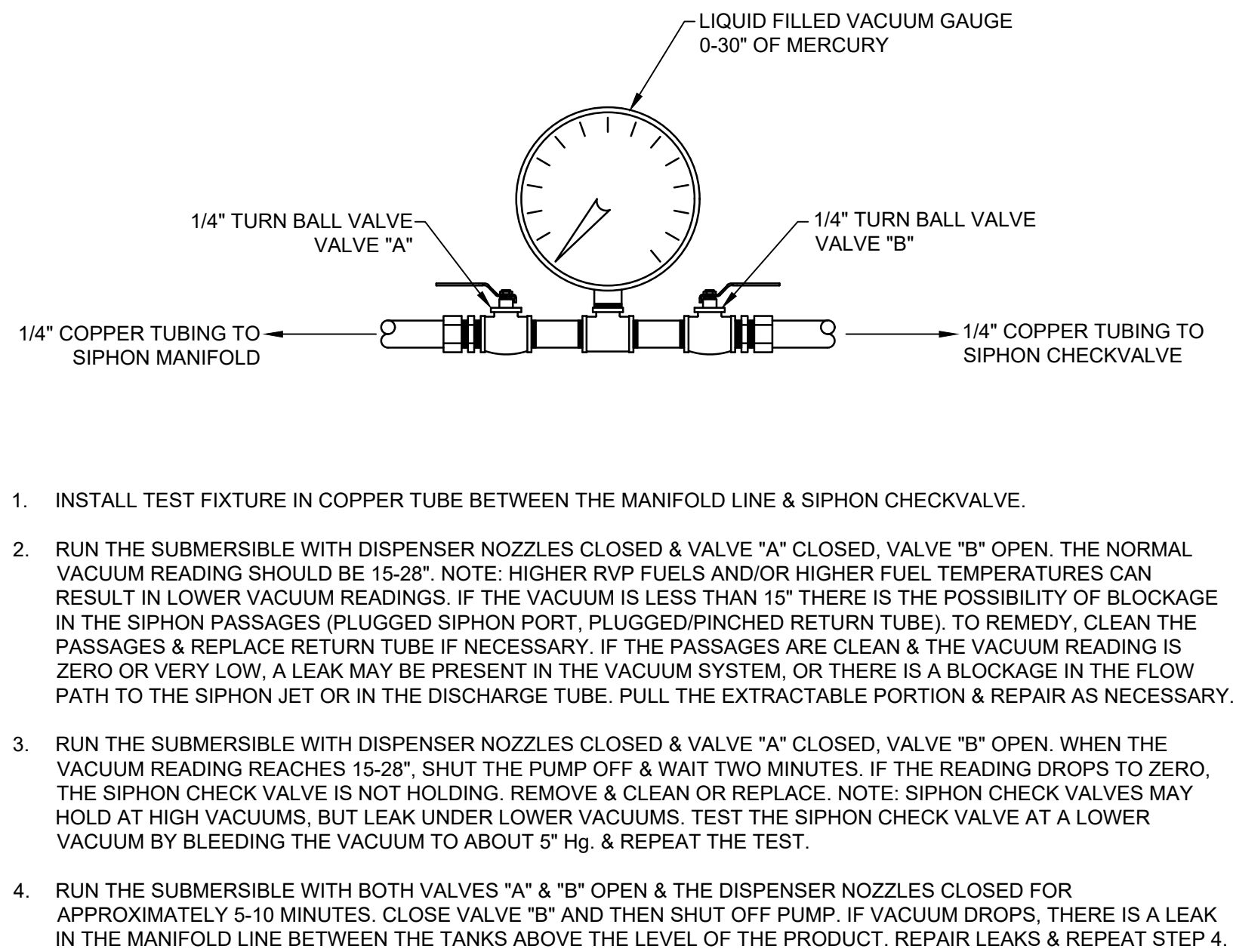
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PROJECT NO.:
GA-4605

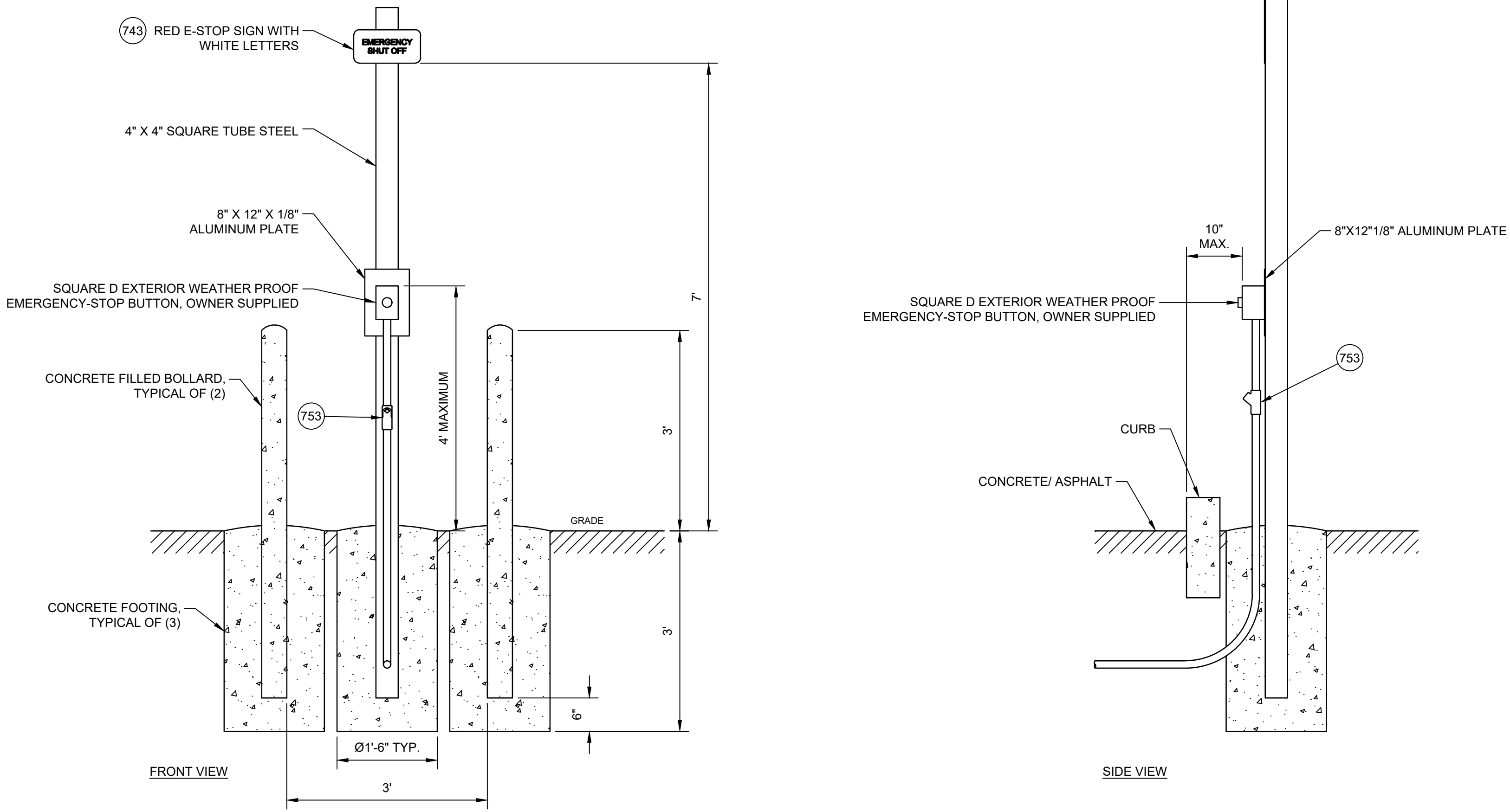
DRAWING NO.
T-6



A TANK LID PAINTING
NOT TO SCALE



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



C REMOTE EMERGENCY FUEL SHUT-OFF DETAIL
SCALE: 3/4" = 1'-0"

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OWNER REVIEW SET					

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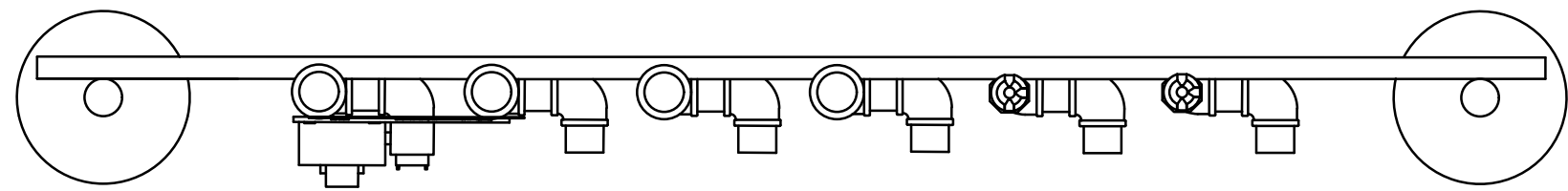
DIAMOND Z
ENGINEERING, INC.
TANK LID PAINTING, MANIFOLD
TESTING AND REMOTE E-STOP DETAILS

DIAMOND Z ENGINEERING, INC.
5670 STATE ROAD
CLEVELAND, OH 44134
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DRAWN BY: BNH	PROJECT NO.: GA-4605

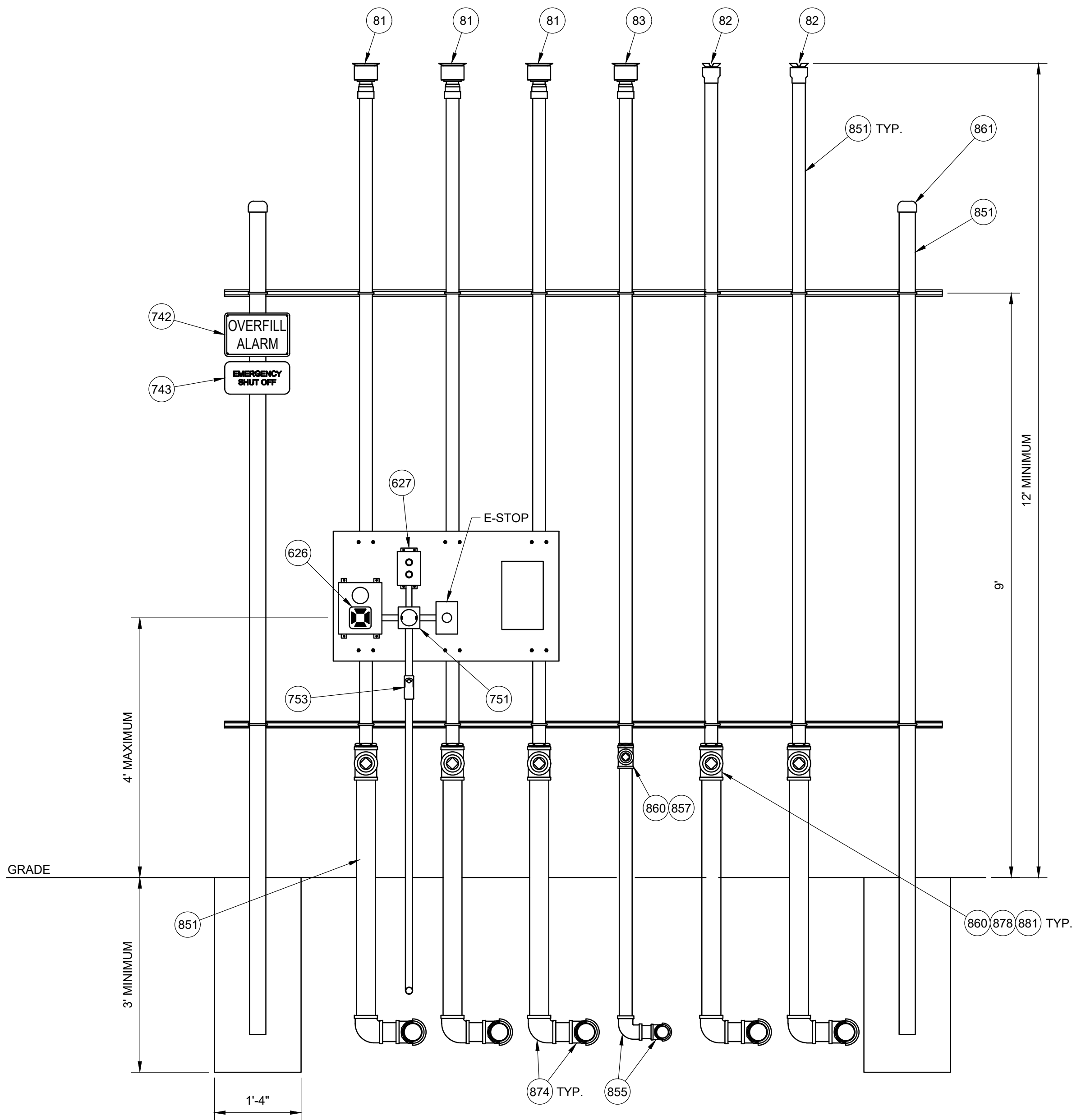
DRAWING NO.
T-7



A

VENT RISER - PLAN

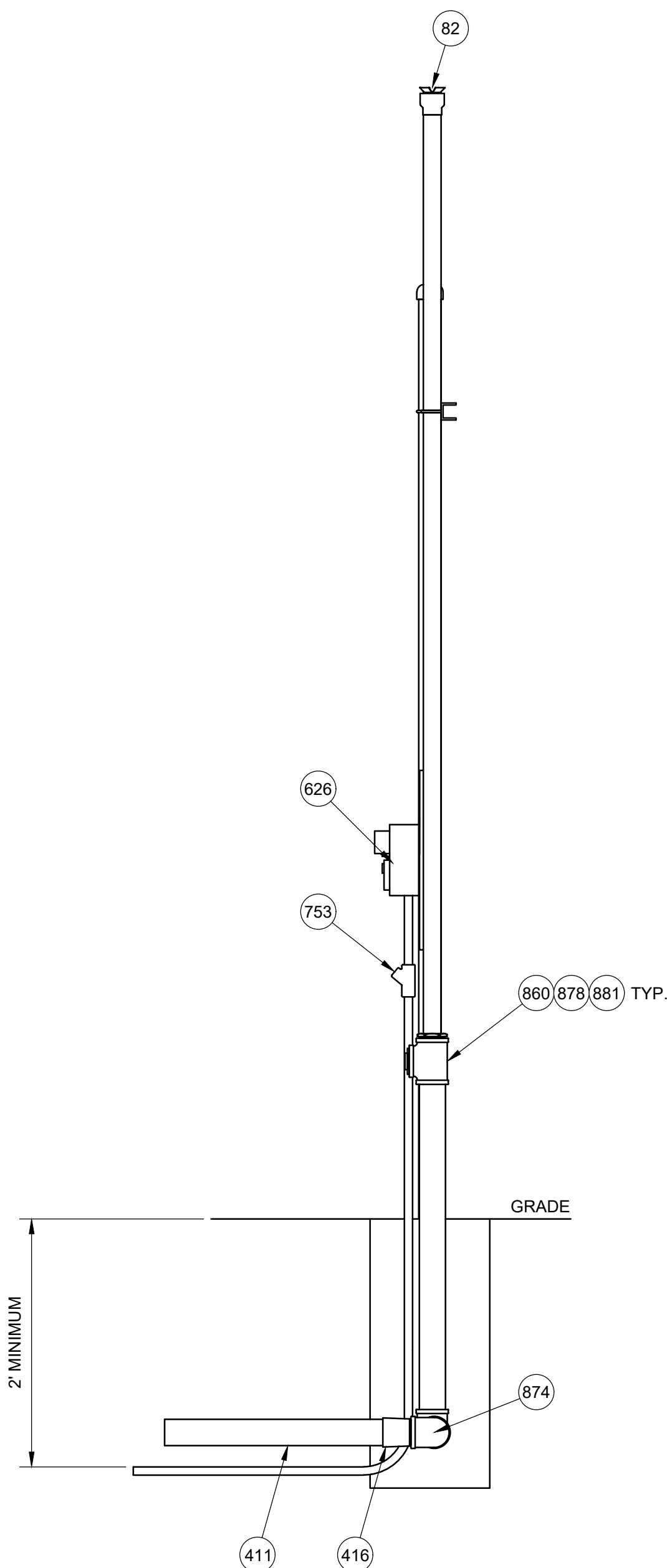
SCALE: 3/4" = 1'-0"



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					
11/29/23	BNH				
OWNER REVIEW SET					
A	A	A	A	A	A

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2670 LAKE OCONEE PARKWAY
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DIAMOND Z
ENGINEERING, INC.
RETAIL AND TRUCK DIESEL
STAND ALONE VENT RISER DETAILS

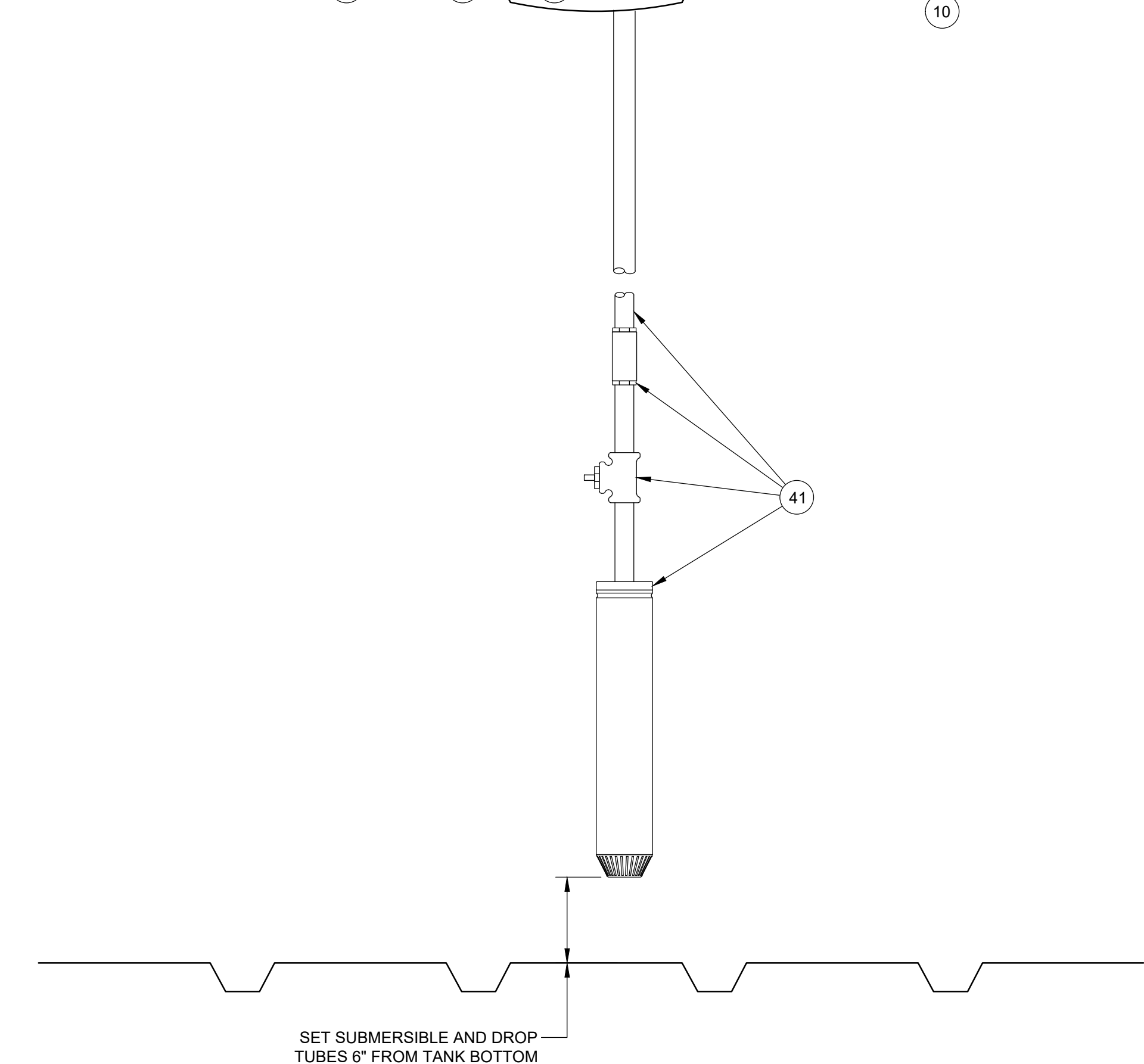
DIAMOND Z ENGINEERING, INC.
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CLEVELAND, OH 44134
PHONE: 440-842-6501

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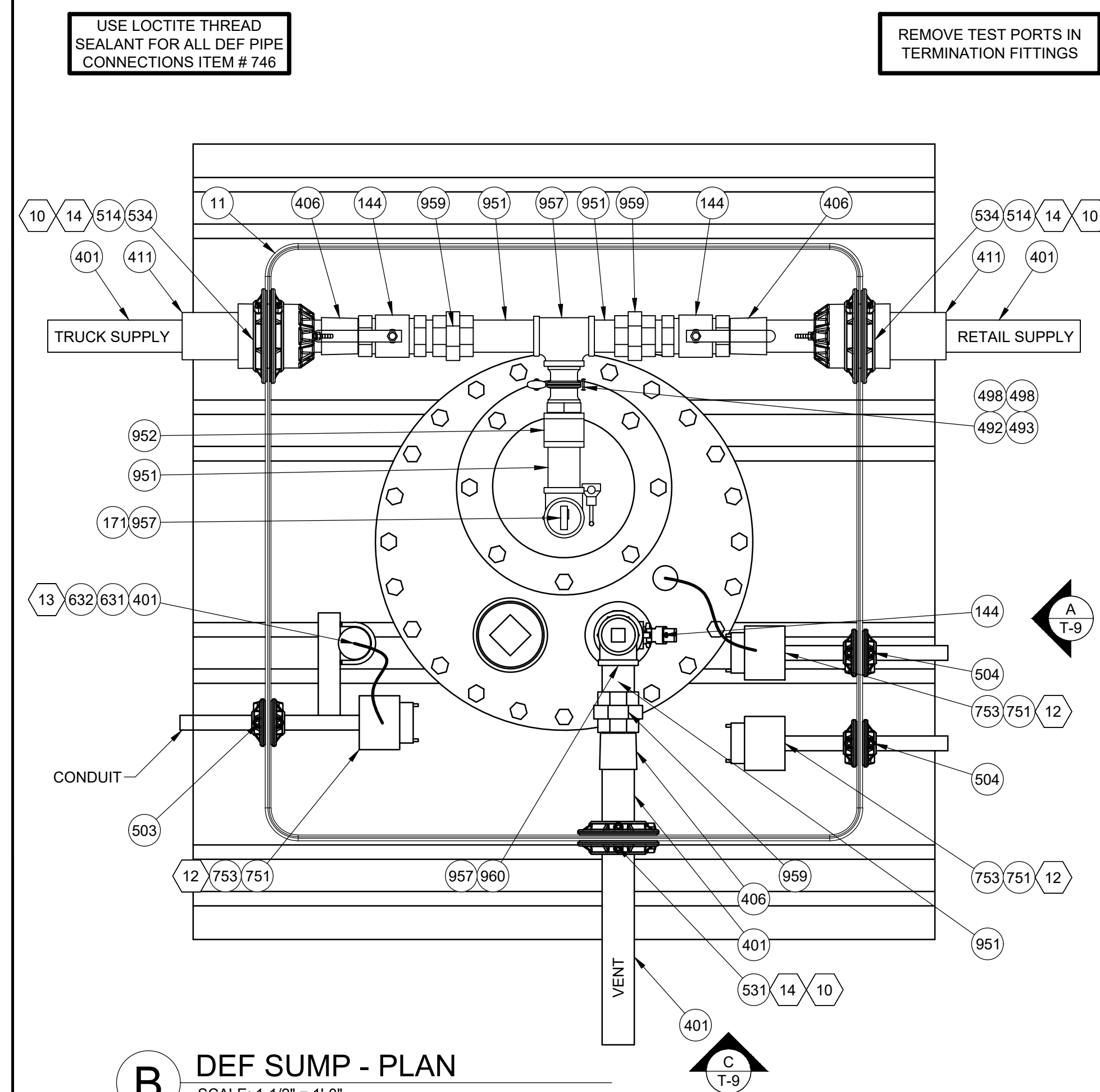
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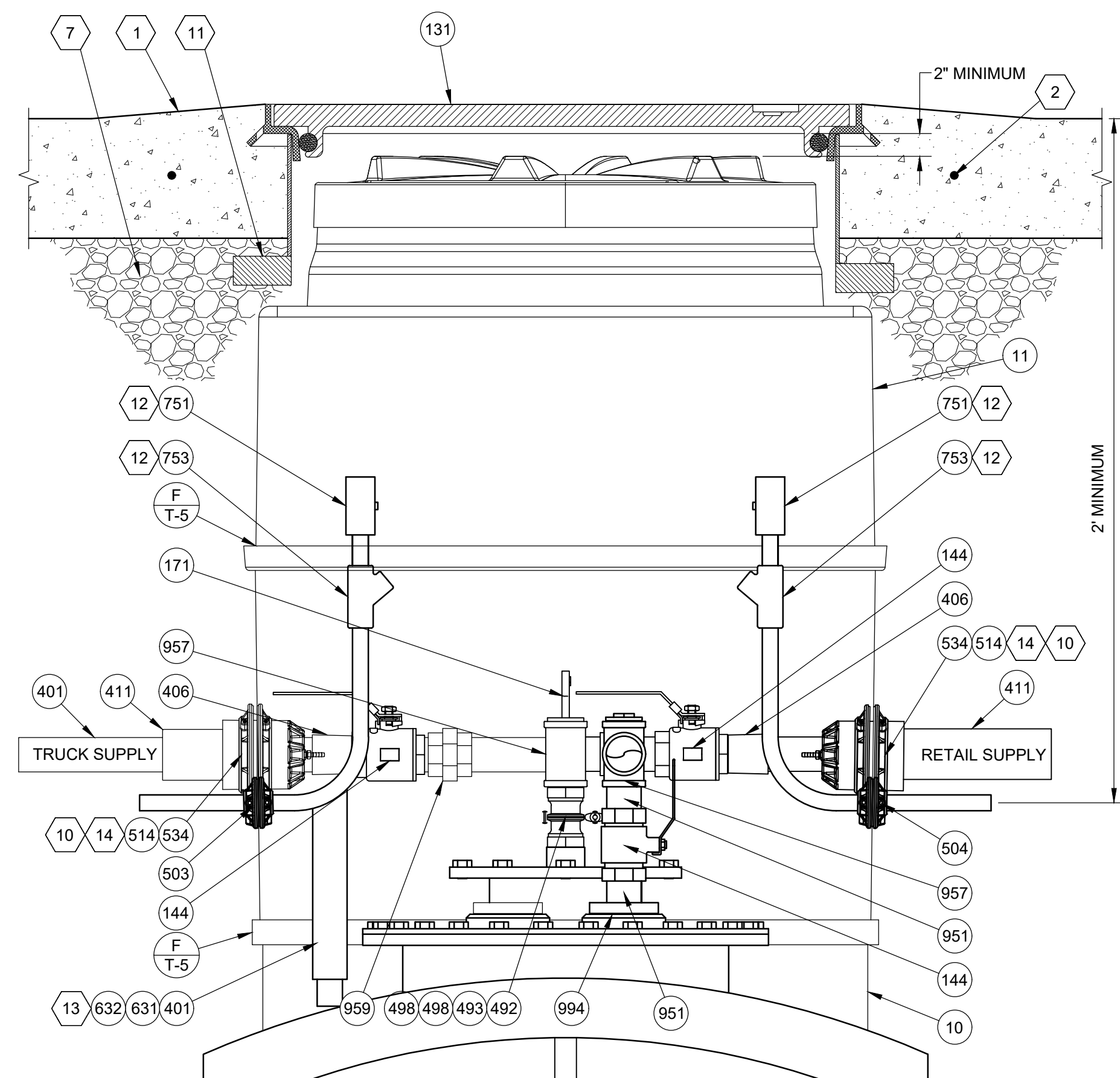
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T-8



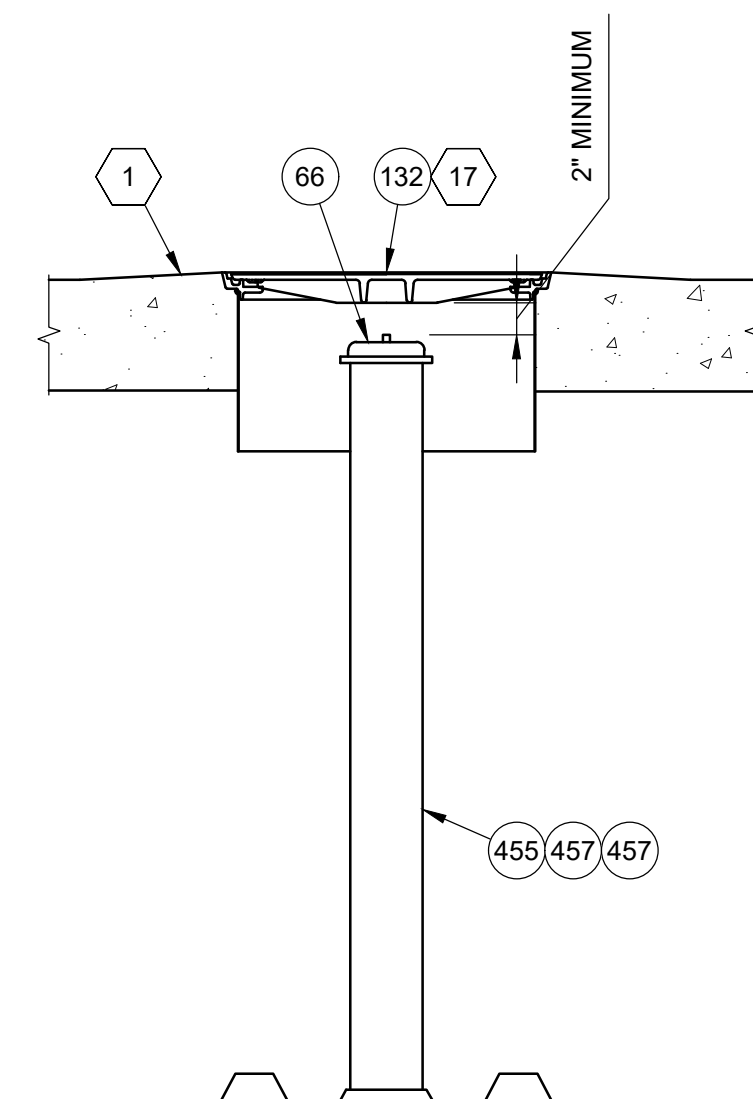
A DEF SUMP - ELEVATION
SCALE: 1-1/2" = 1'-0"



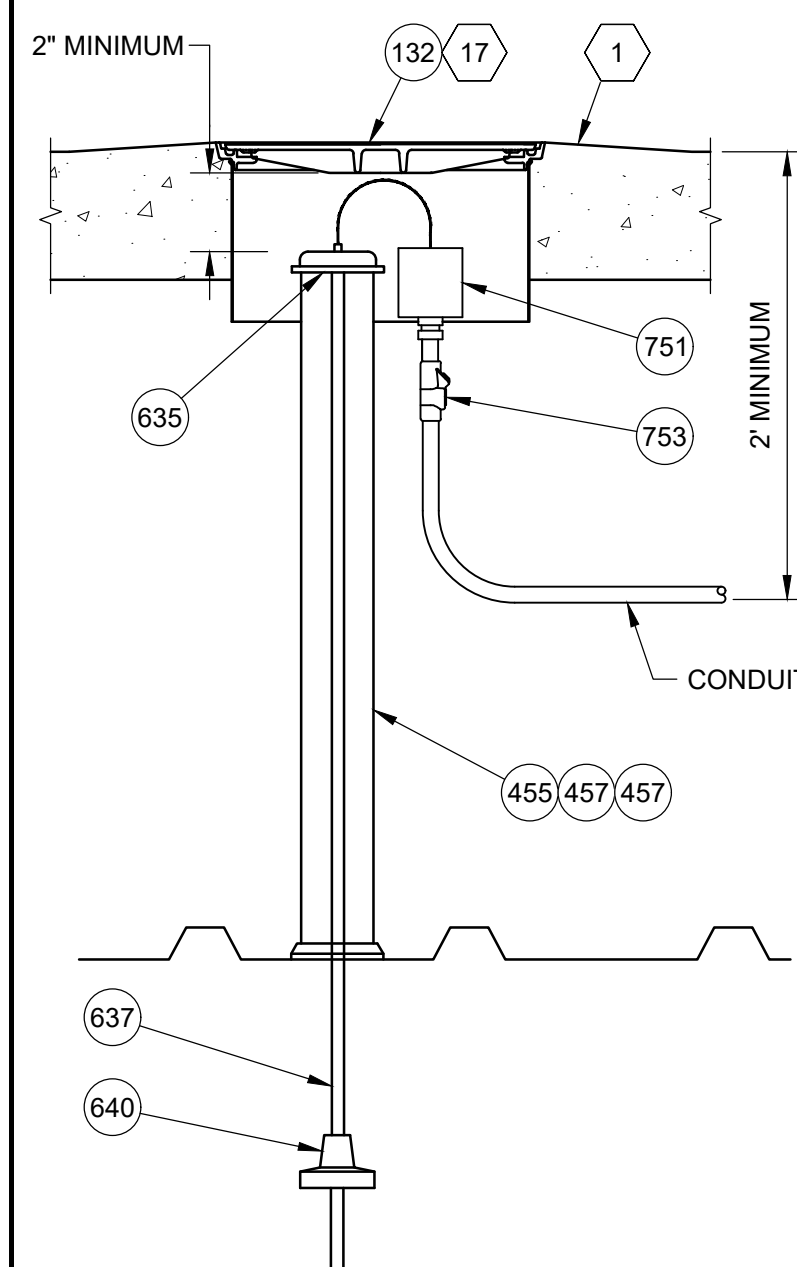
B DEF SUMP - PLAN
SCALE: 1-1/2" = 1'-0"



C DEF SUMP - ELEVATION
SCALE: 1-1/2" = 1'-0"



D BLANK
RISER DETAIL
SCALE: 1" = 1'-0"



DEF
TANK ATG RISER
SCALE: 1" = 1'-0"

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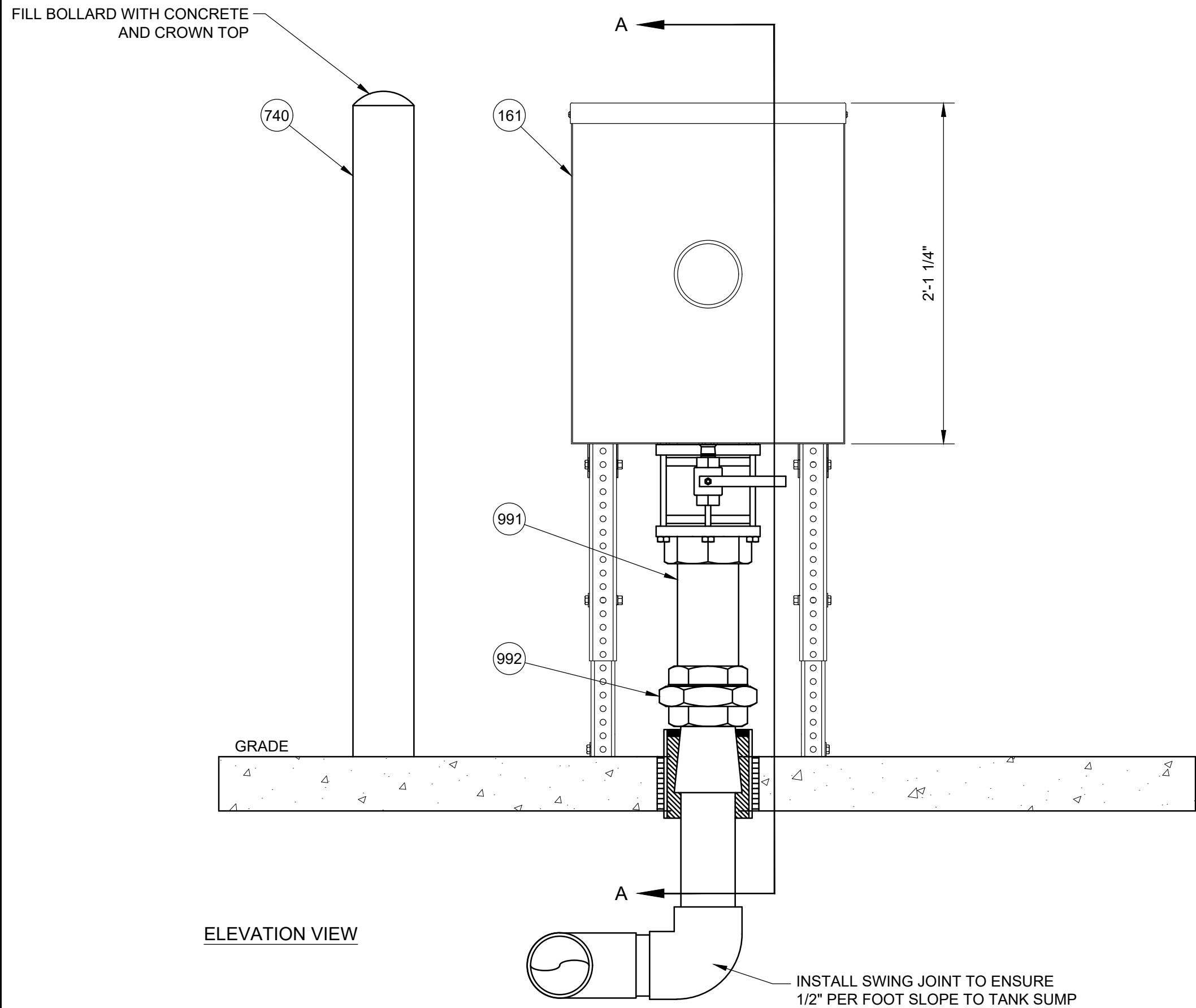
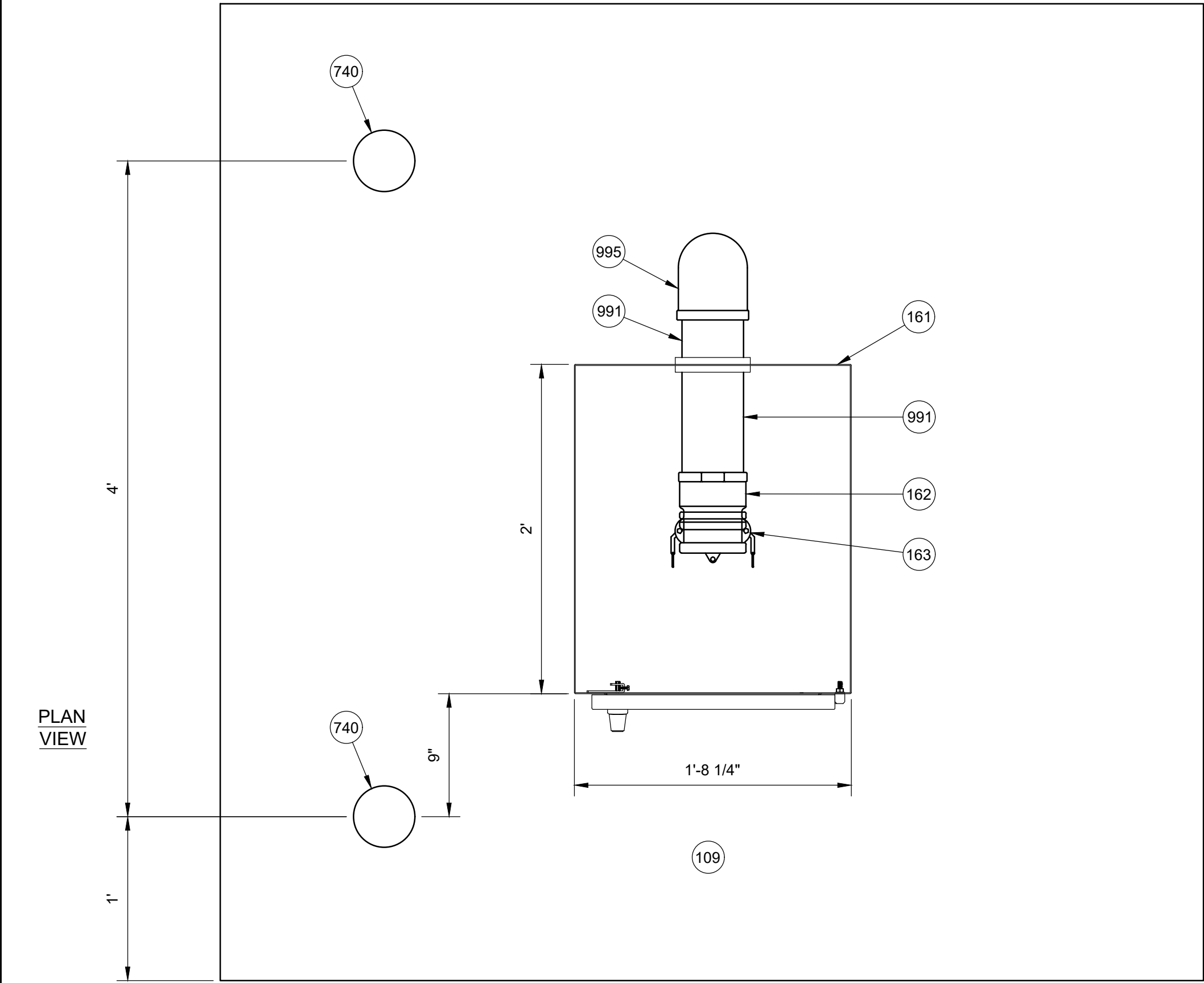
DEF TANK TOP DETAILS

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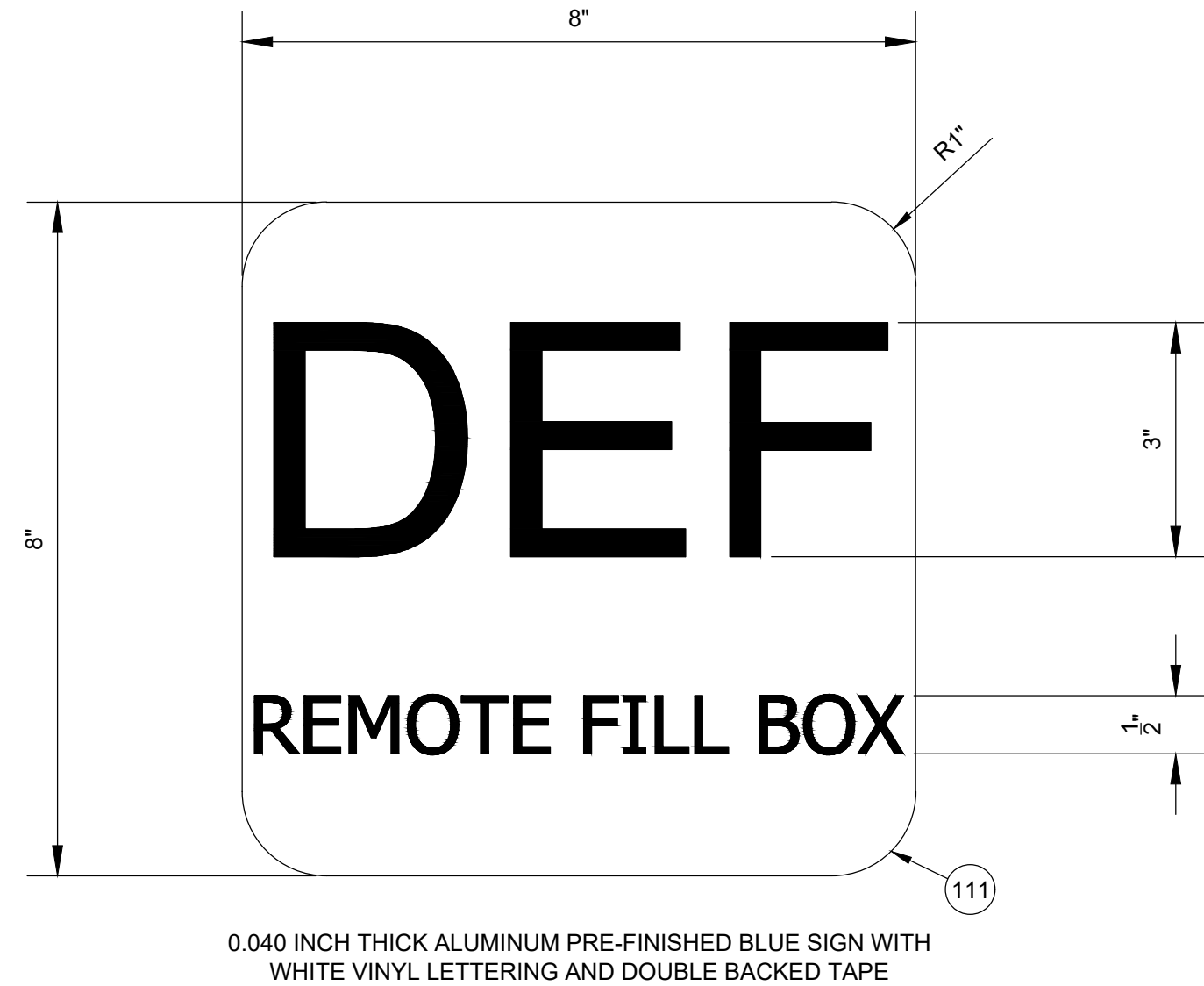
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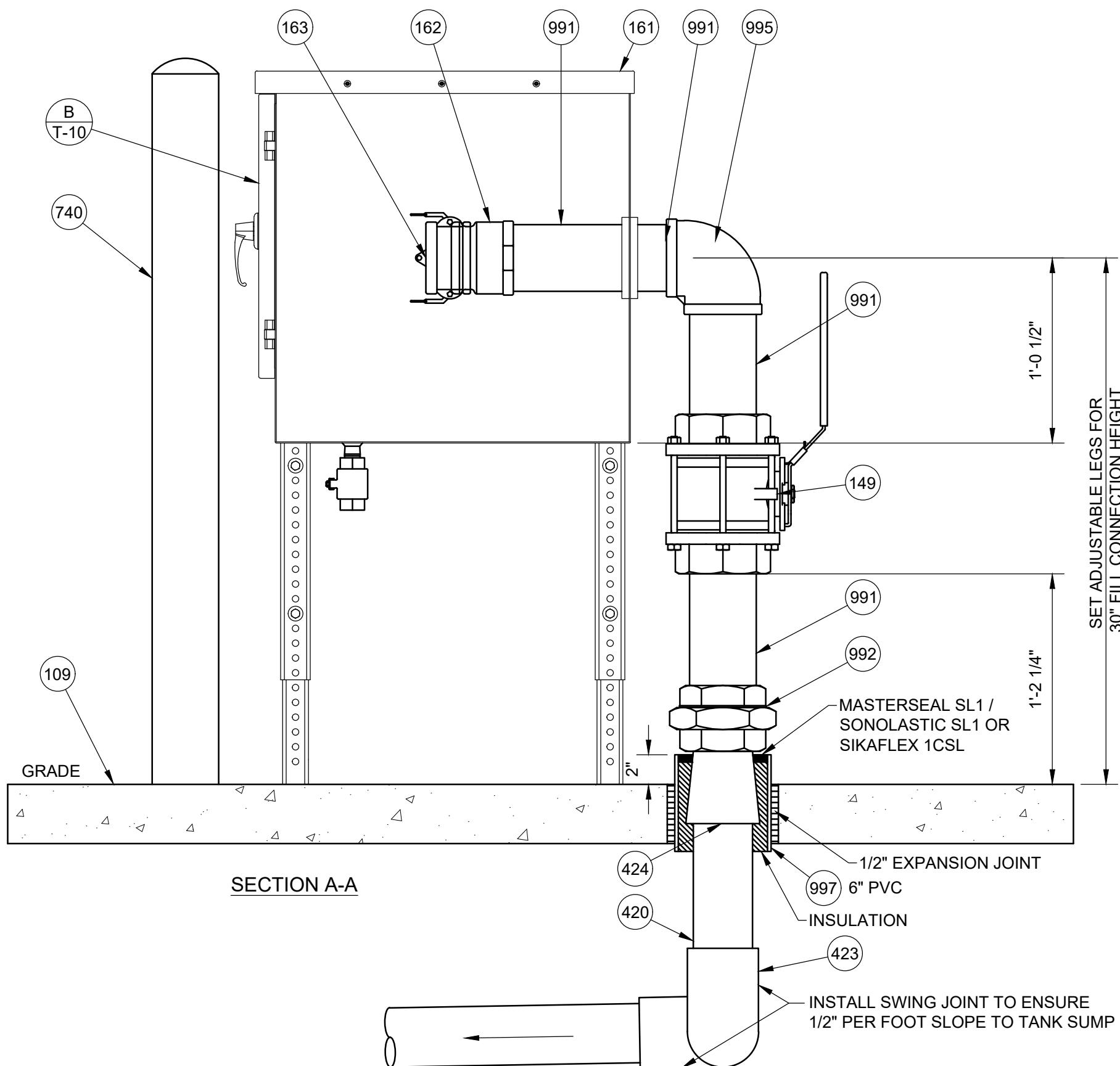
DRAWING NO.
T-9



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



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



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DIAMOND Z
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DEF REMOTE FILL BOX DETAILS

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PROJECT NO.: GA-4605

DRAWING NO.
T-10



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ENGINEERING, INC.

RETAIL TRANSITION DETAILS

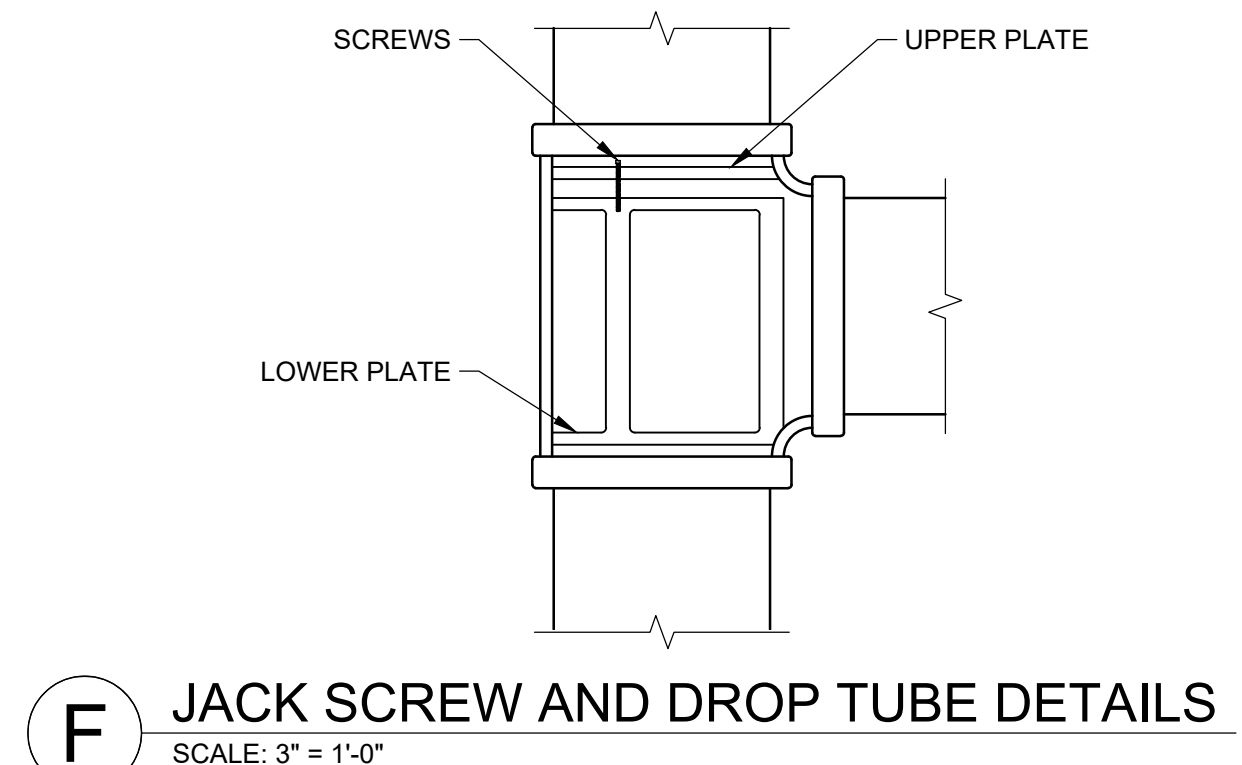
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SCALE: 1" = 1'-0"	DATE: 11/29/2023
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DRAWING NO.
T-11



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DIAMOND Z
ENGINEERING, INC.

REMOTE FILL DETAILS

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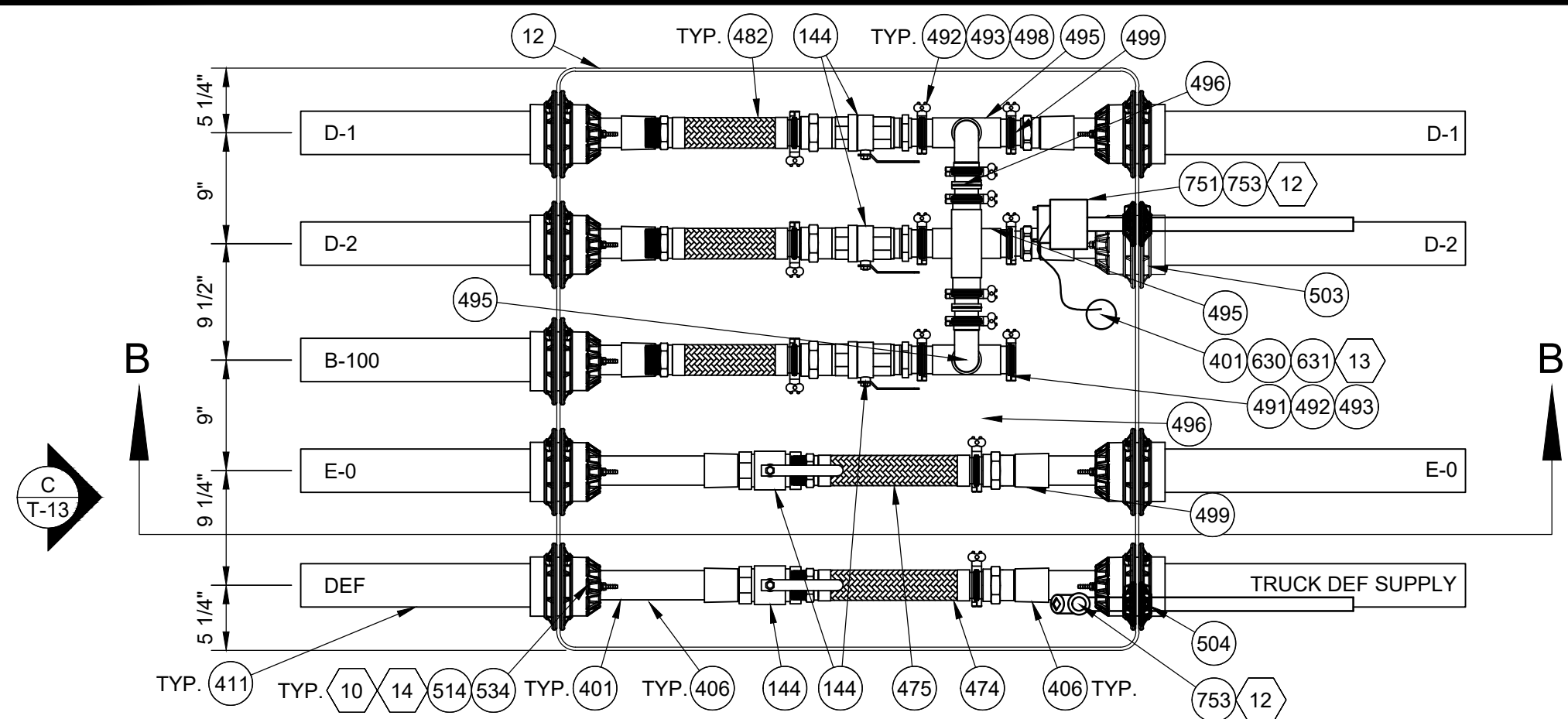
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SCALE: AS NOTED	DATE: 11/29/2023
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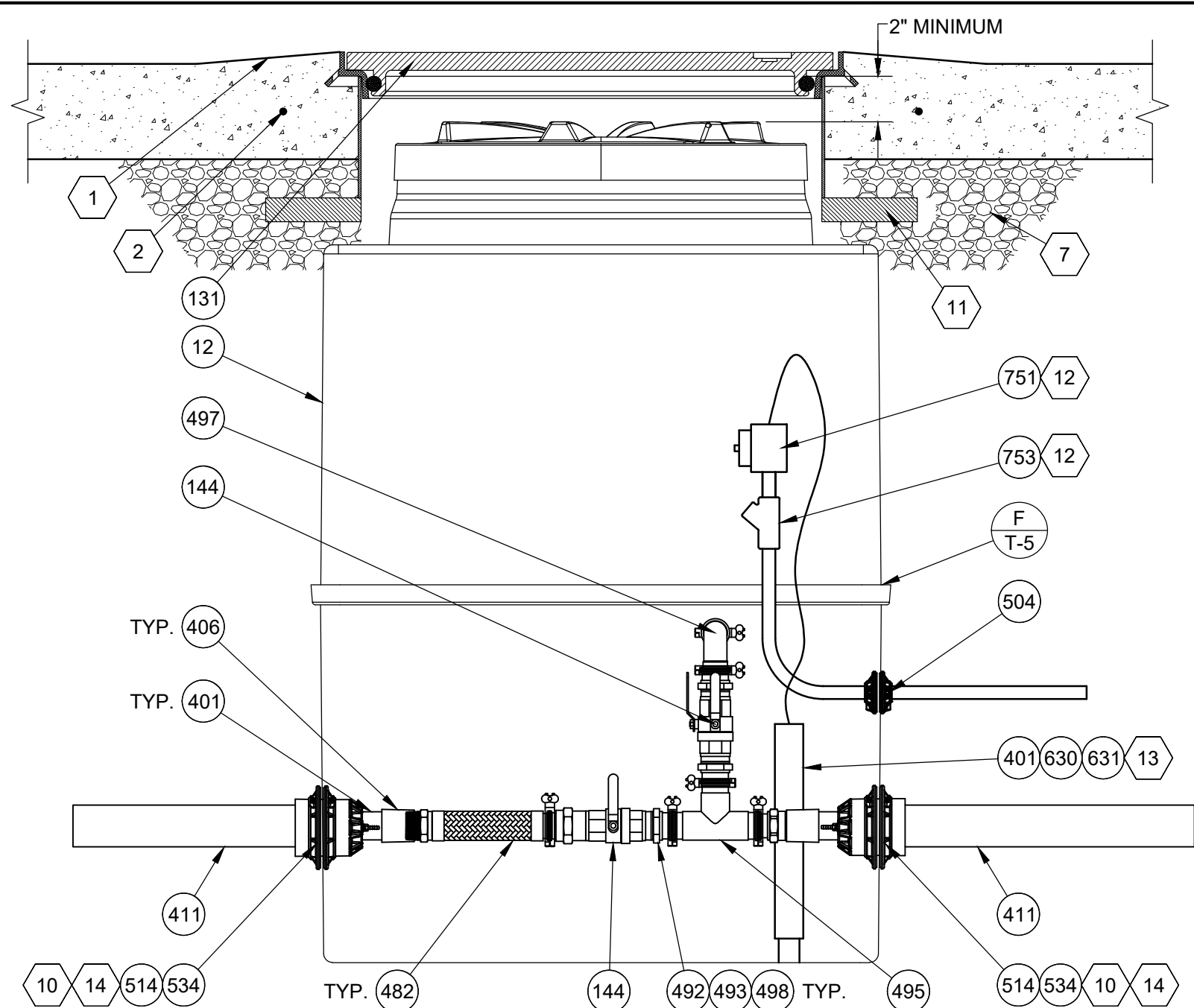
DRAWN BY: BNH	PROJECT NO.: GA-4605
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DRAWING NO.

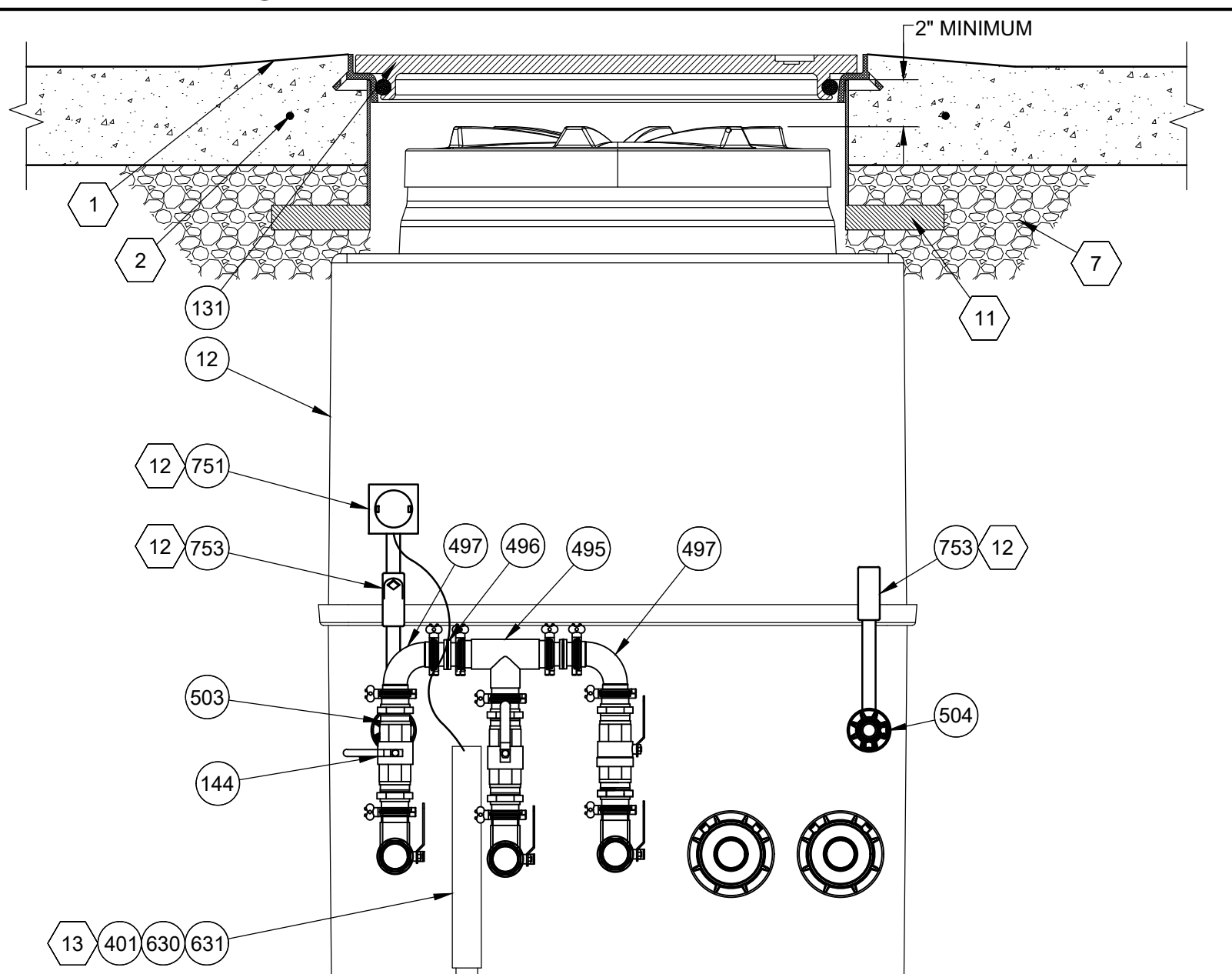
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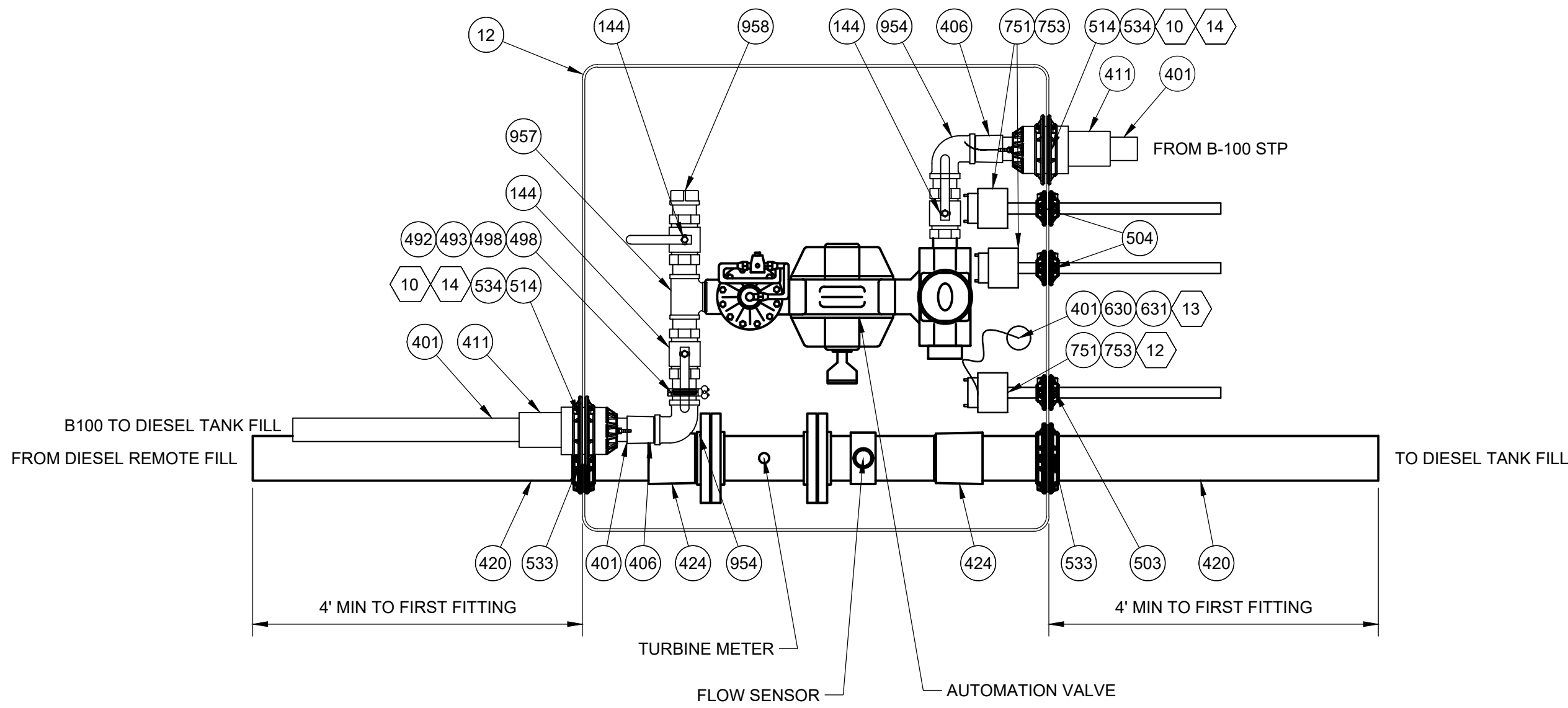
A TRANSITION SUMP - PLAN VIEW
SCALE: 1" = 1'-0"



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				
NO.	DATE	DESCRIPTION	BY	CHKD.
1	11/29/23	BNH		
2				
3				
4				
5				
6				

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DIAMOND Z
ENGINEERING, INC.
BIO-BLENDING AND
TRUCK TRANSITION SUMP DETAILS

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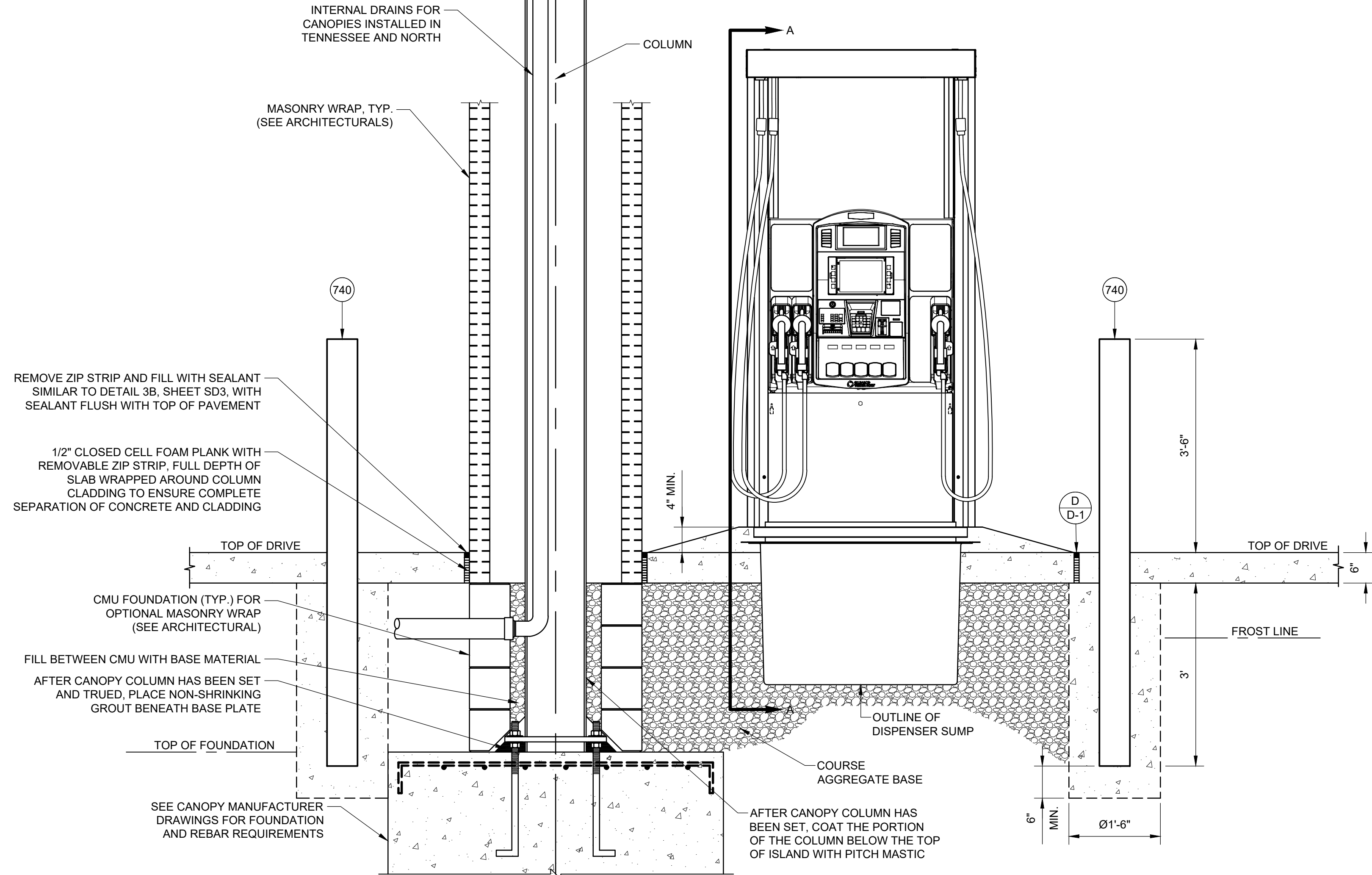
SCALE:
1" = 1'-0"

DATE:
11/29/2023

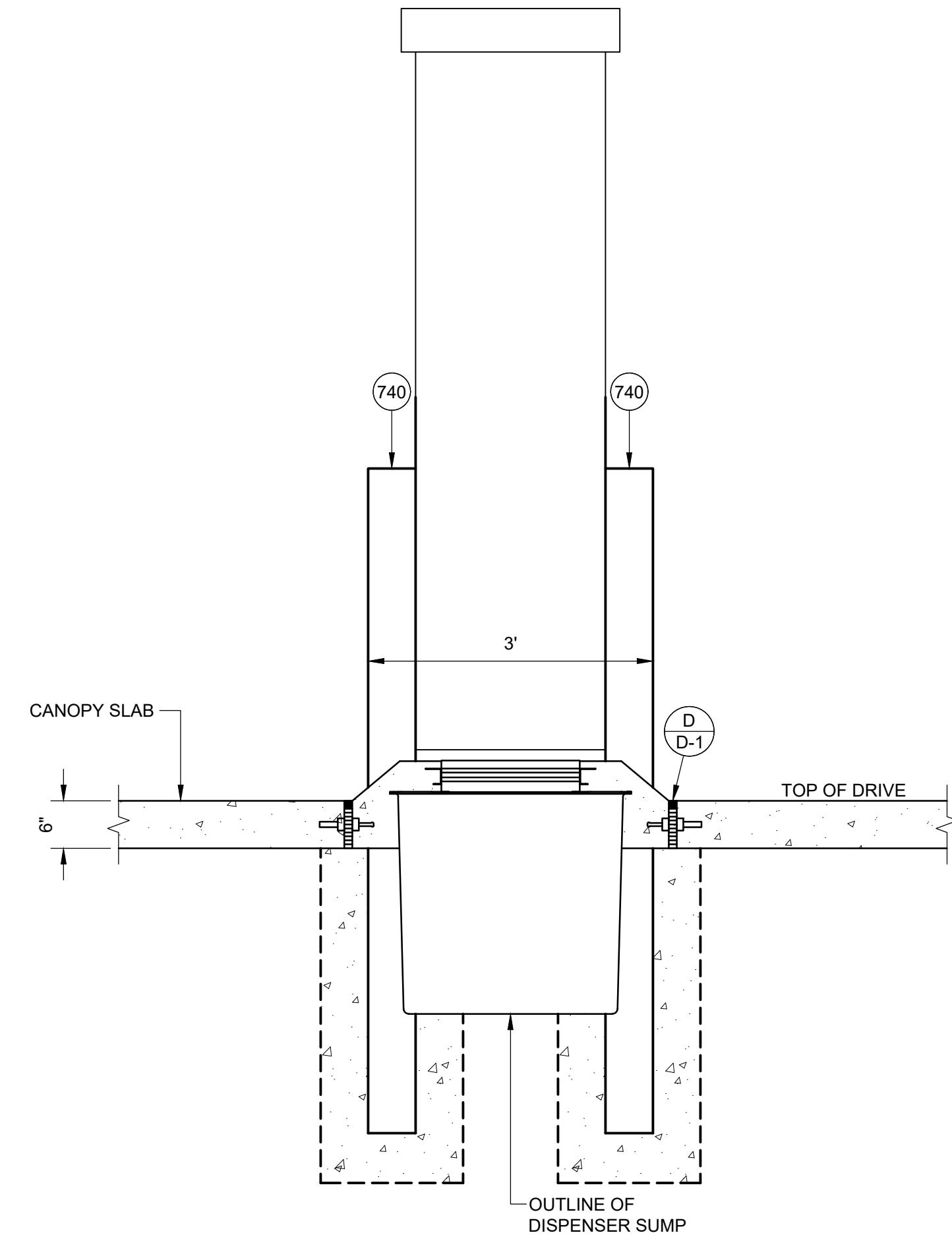
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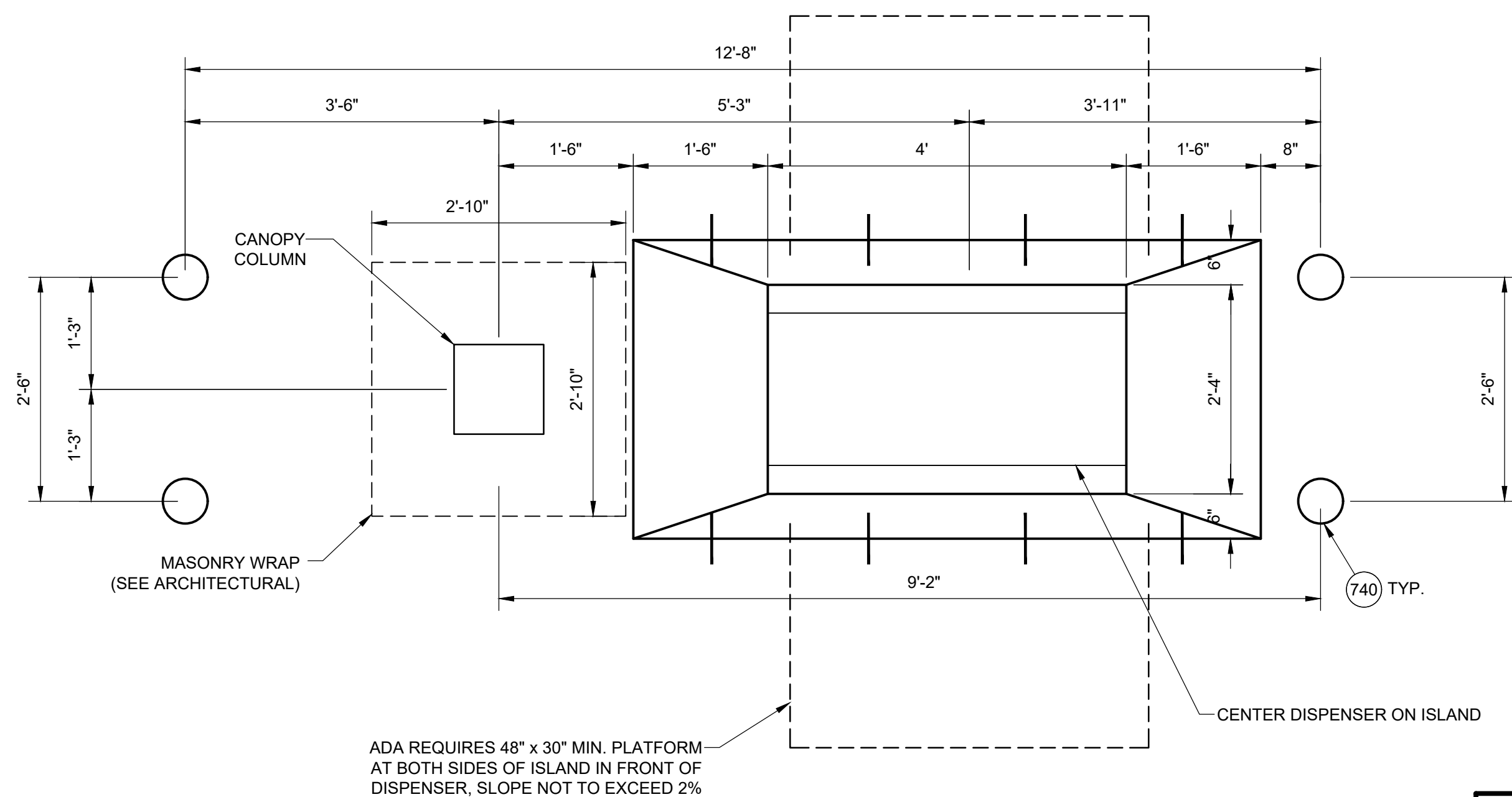
DRAWING NO.
T-13



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

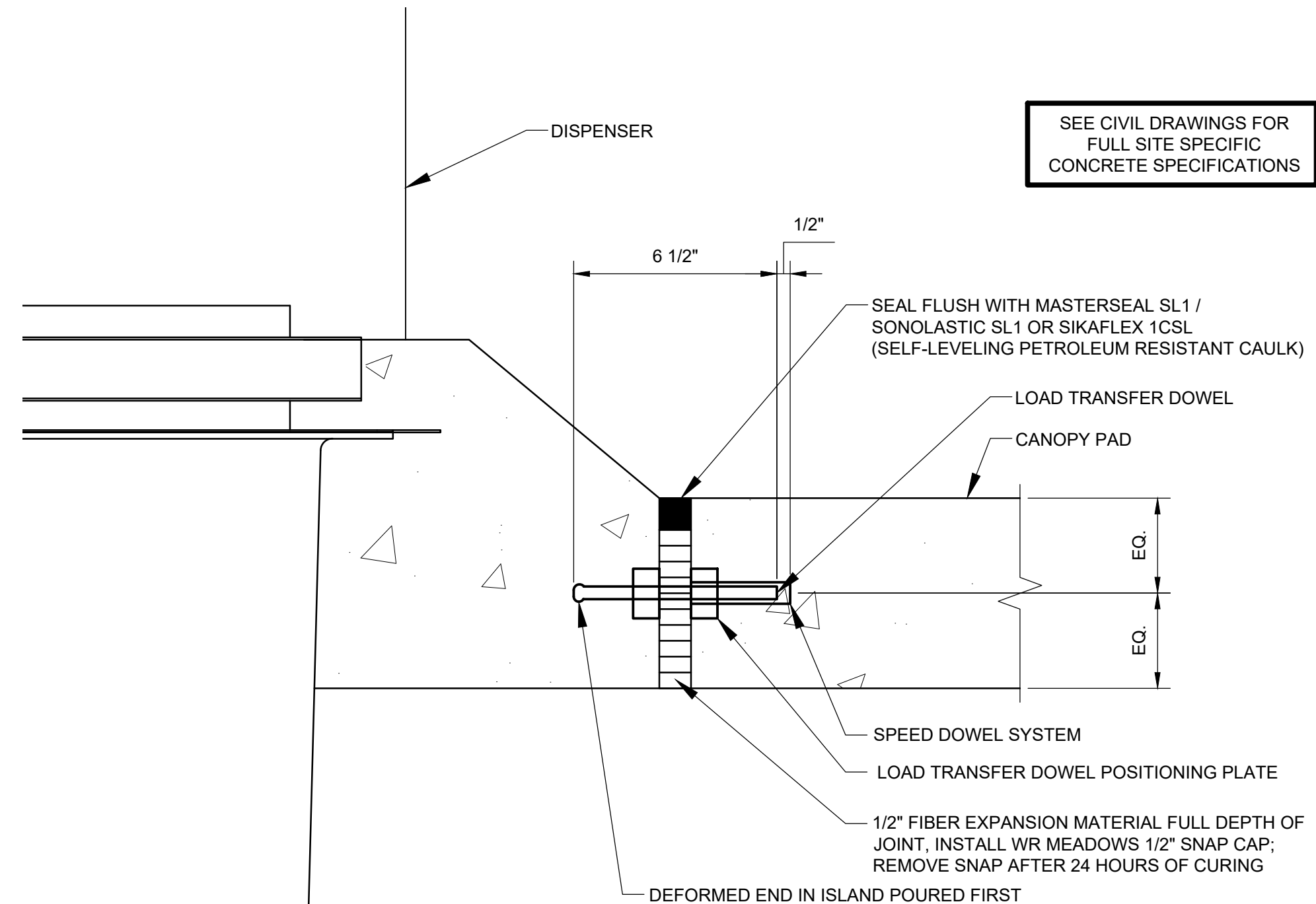


C SECTION A-A THROUGH ISLAND
SCALE: 3/4" = 1'-0"



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

ADA REQUIRES A MAXIMUM DISTANCE OF 10" FOR REACH DEPTH MEASURED FROM THE TOE OF THE ISLAND TO THE OPERABLE CONTROLS OF THE DISPENSER



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

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DIAMOND Z ENGINEERING, INC.
GILBARCO ENCORE RETAIL
DISPENSER ISLAND DETAILS -
SINGLE COLUMN LAYOUT

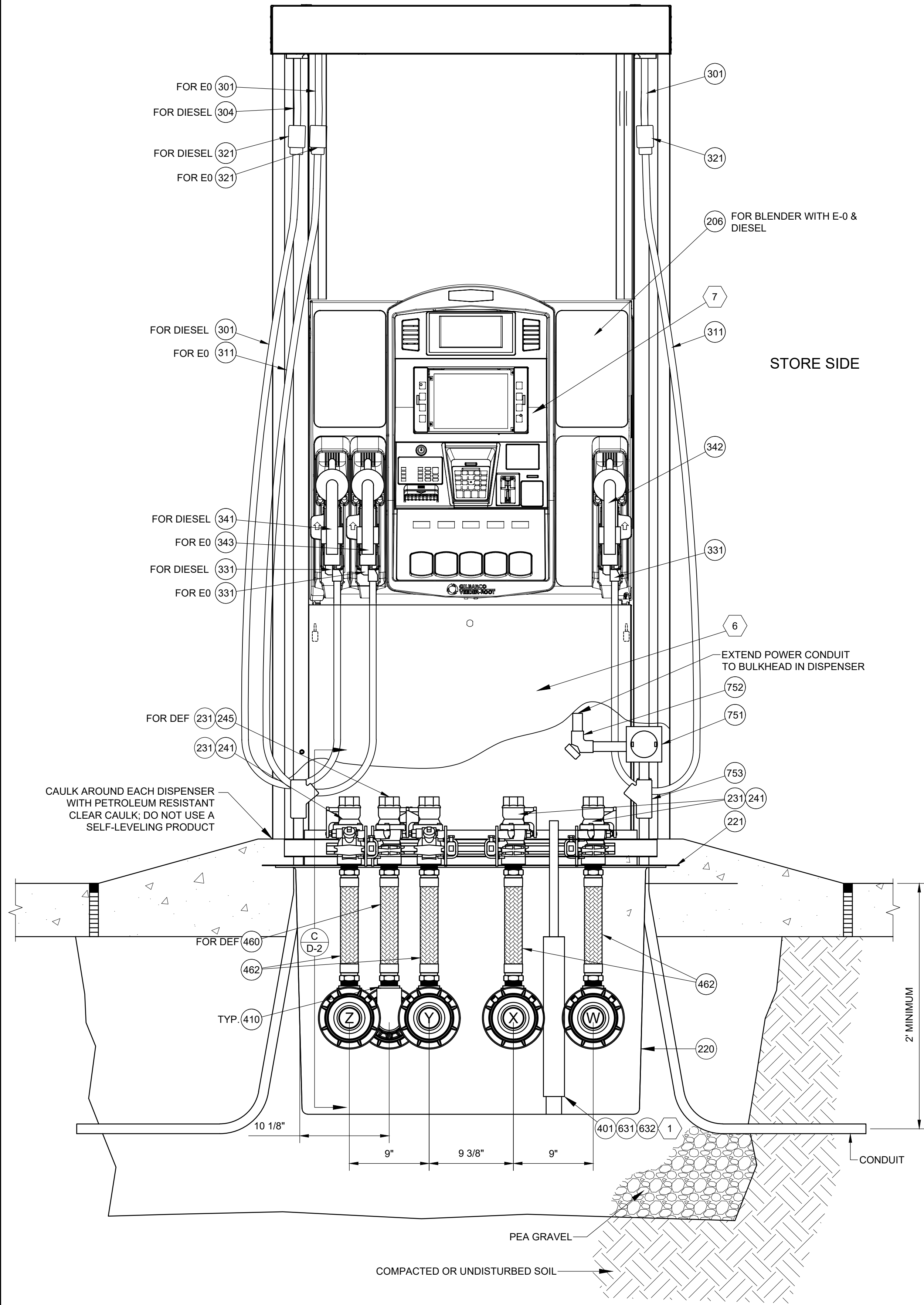
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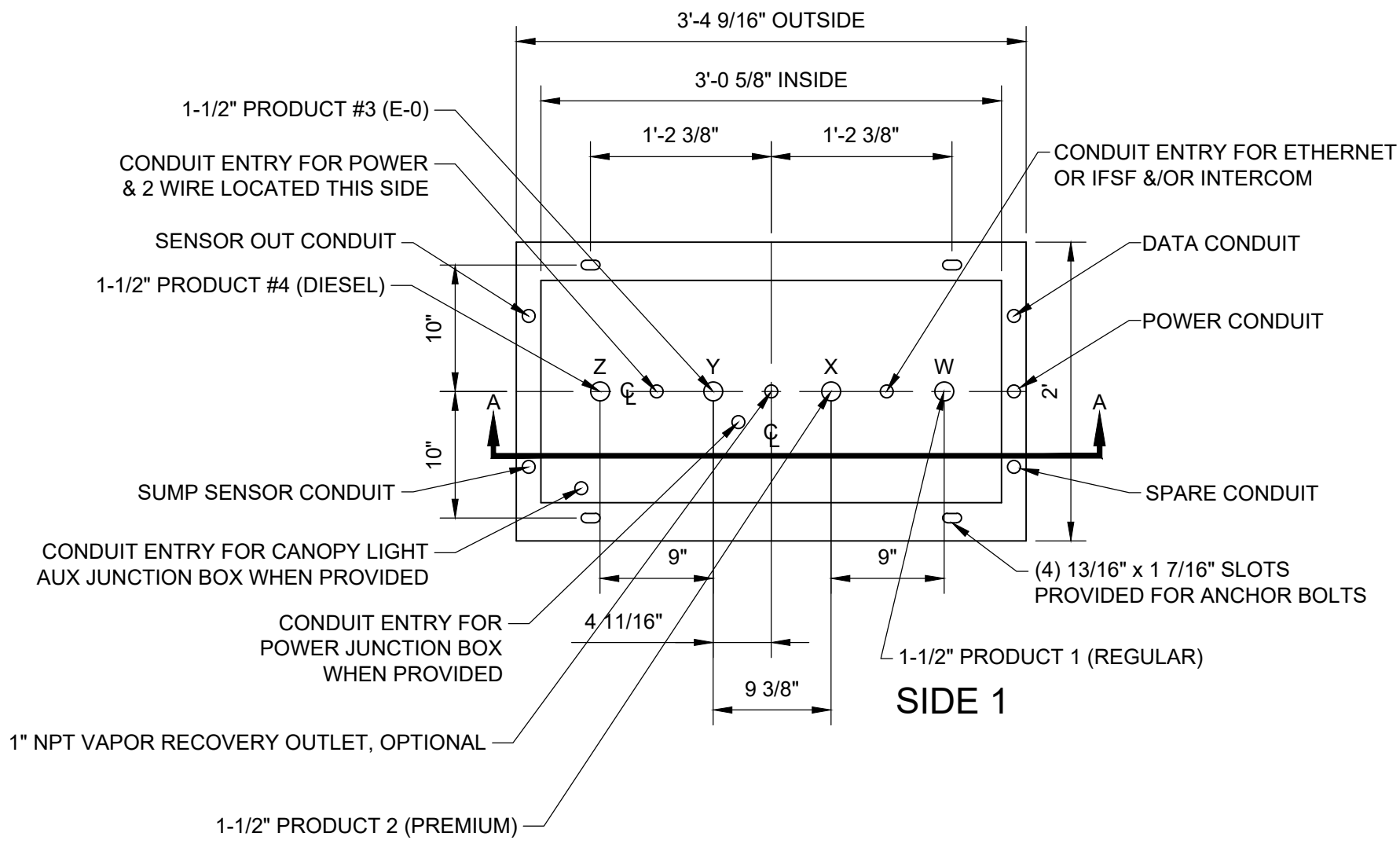
SCALE: AS NOTED DATE: 11/29/2023

DRAWN BY: BNH PROJECT NO.: GA-4605

DRAWING NO.
D-1



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

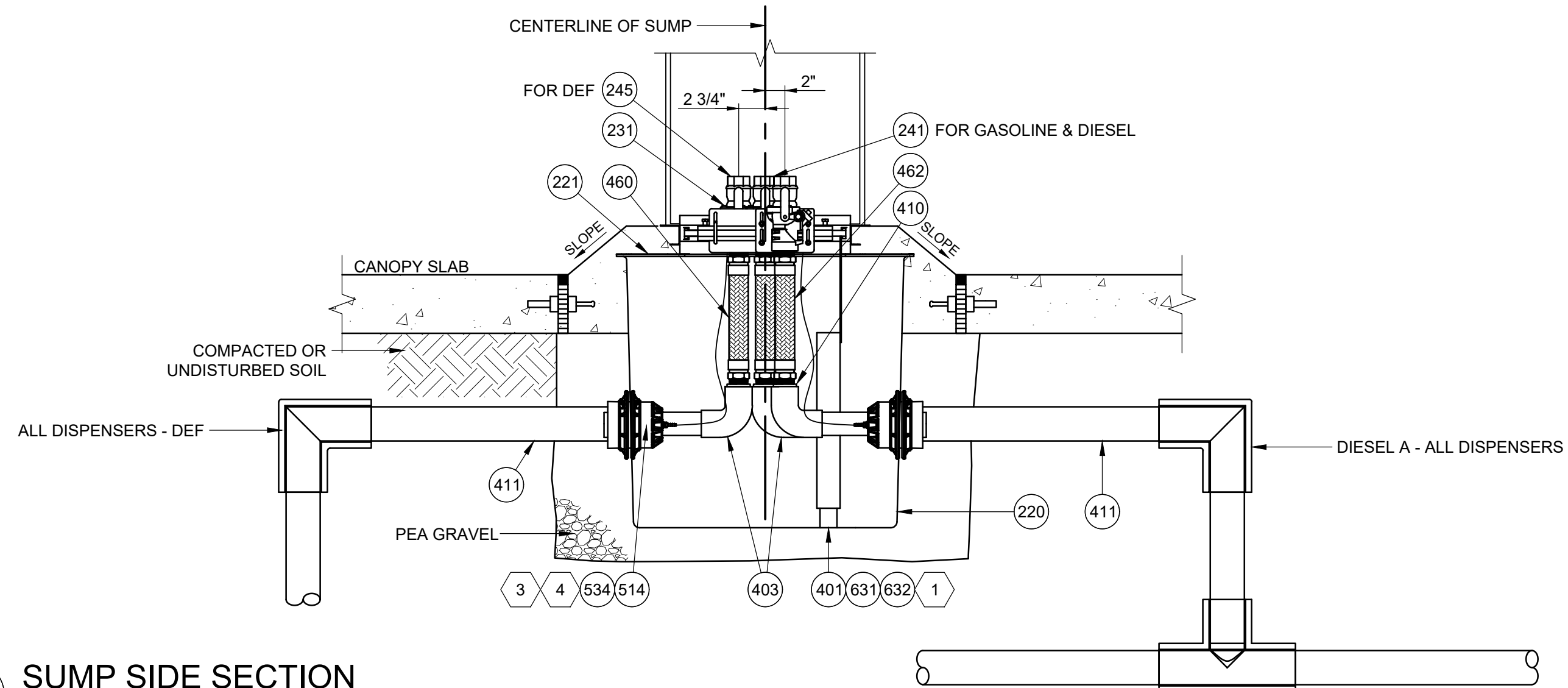


B MOUNTING DIAGRAM
SCALE: 1" = 1'-0"

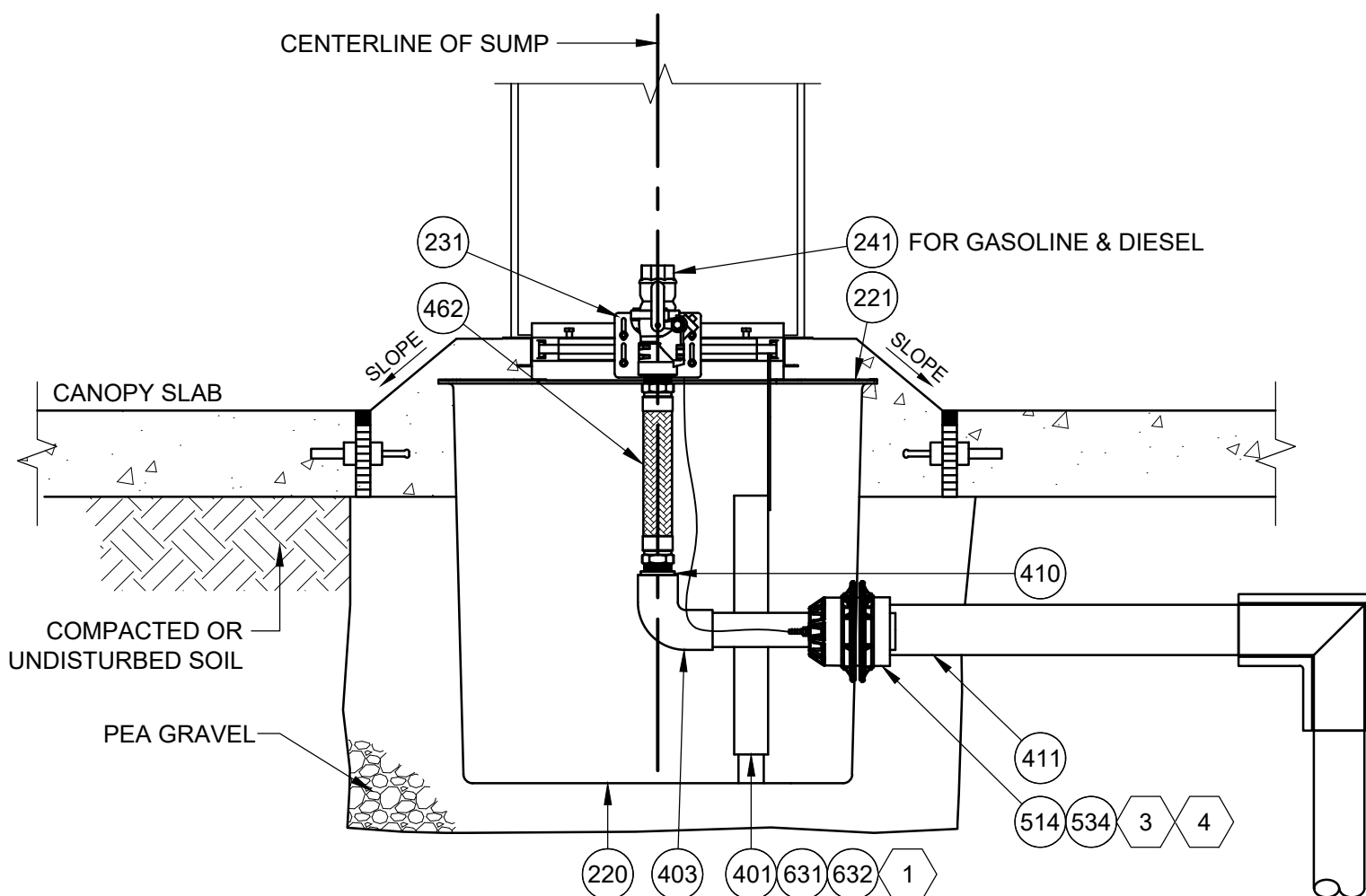
CONTRACTOR TO VERIFY LATEST
PRODUCT CONNECTION DIAGRAM
WITH EQUIPMENT MANUFACTURER

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.



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



D SUMP SIDE SECTION WITH TERMINATING SUMP
SCALE: 1" = 1'-0"

REVISIONS				
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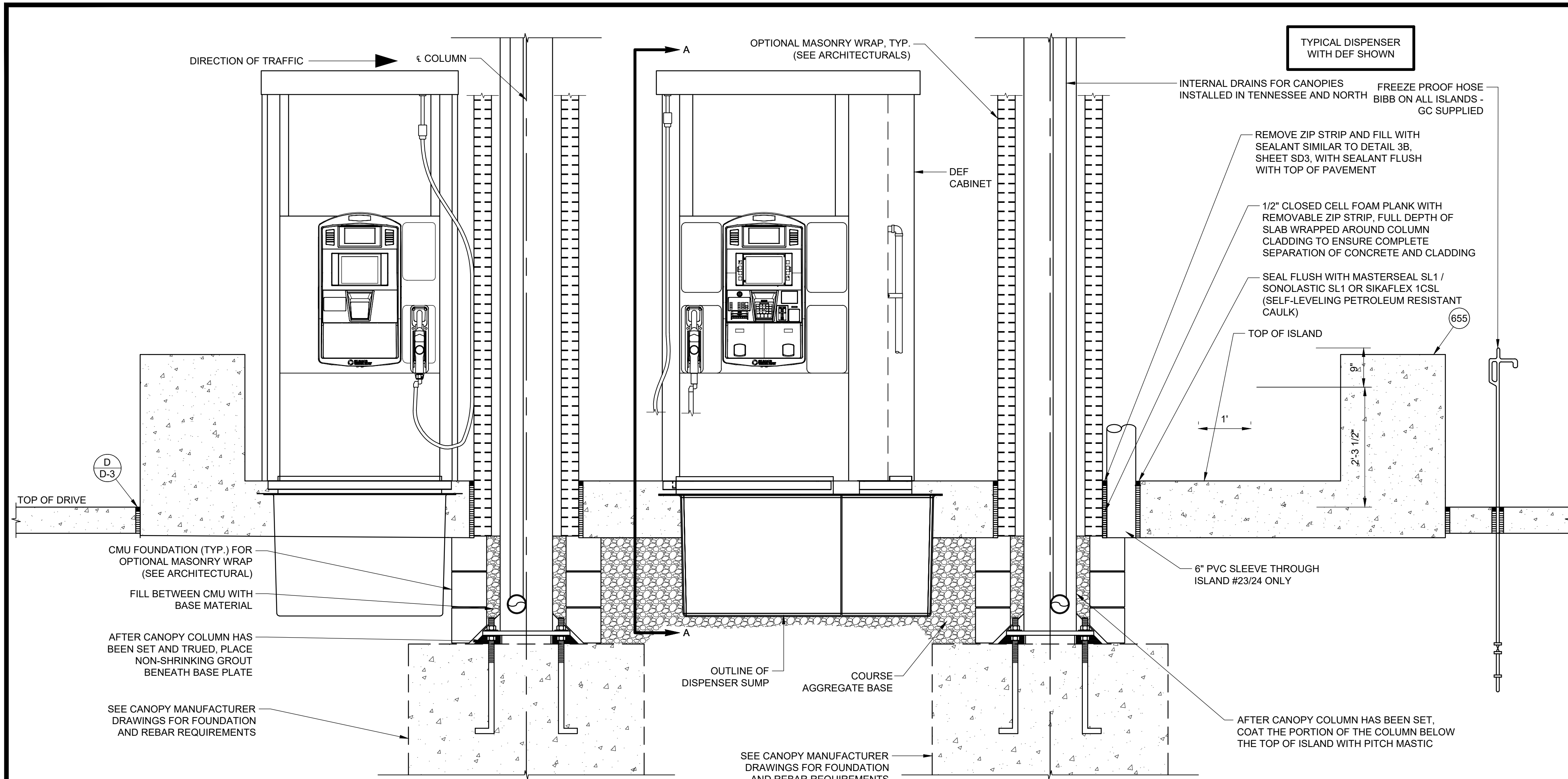
DIAMOND Z
ENGINEERING, INC.
GILBARCO ENCORE
RETAIL DISPENSER DETAILS

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

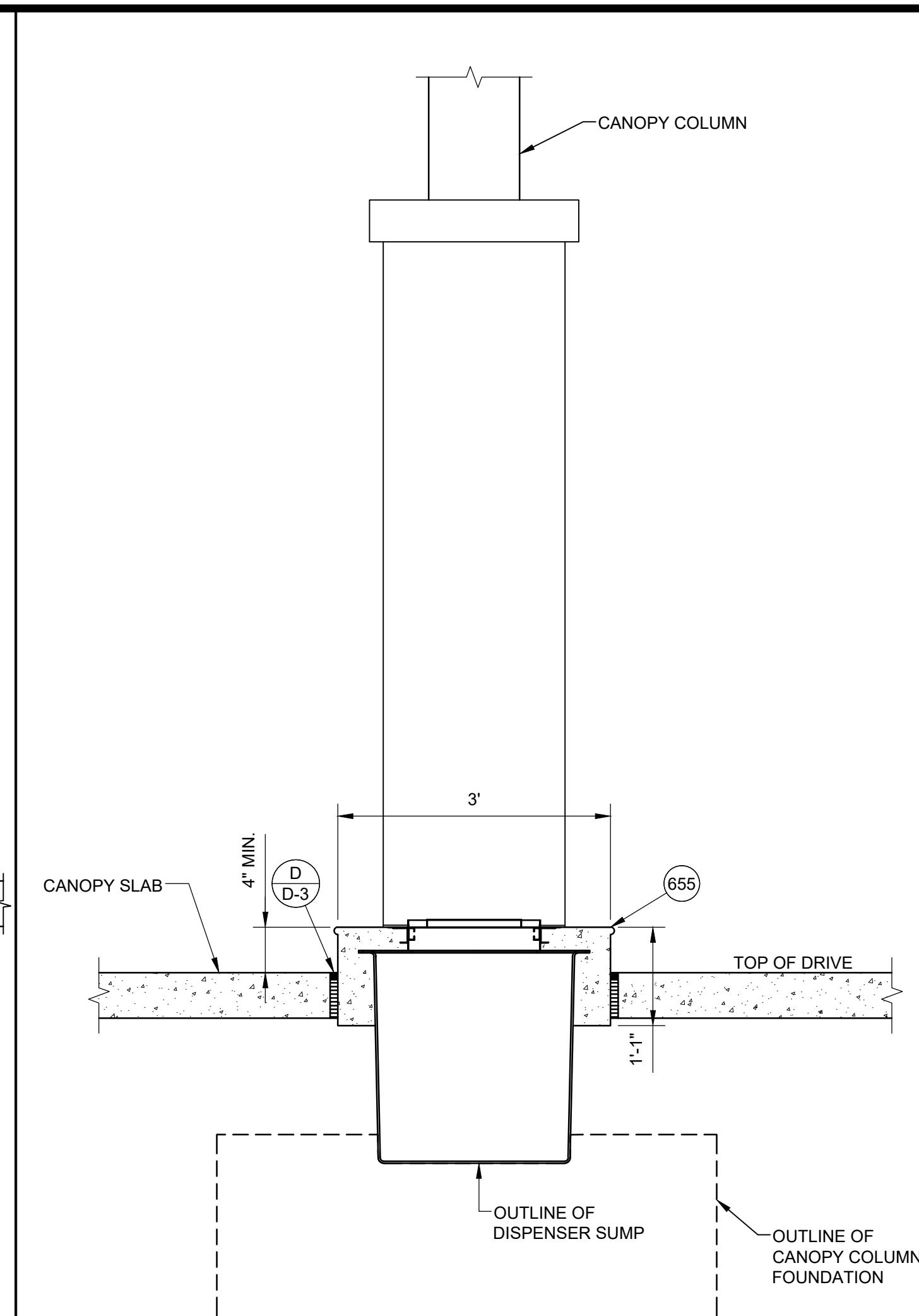
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SCALE:
AS NOTED
DATE:
11/29/2023
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PROJECT NO.:
GA-4605

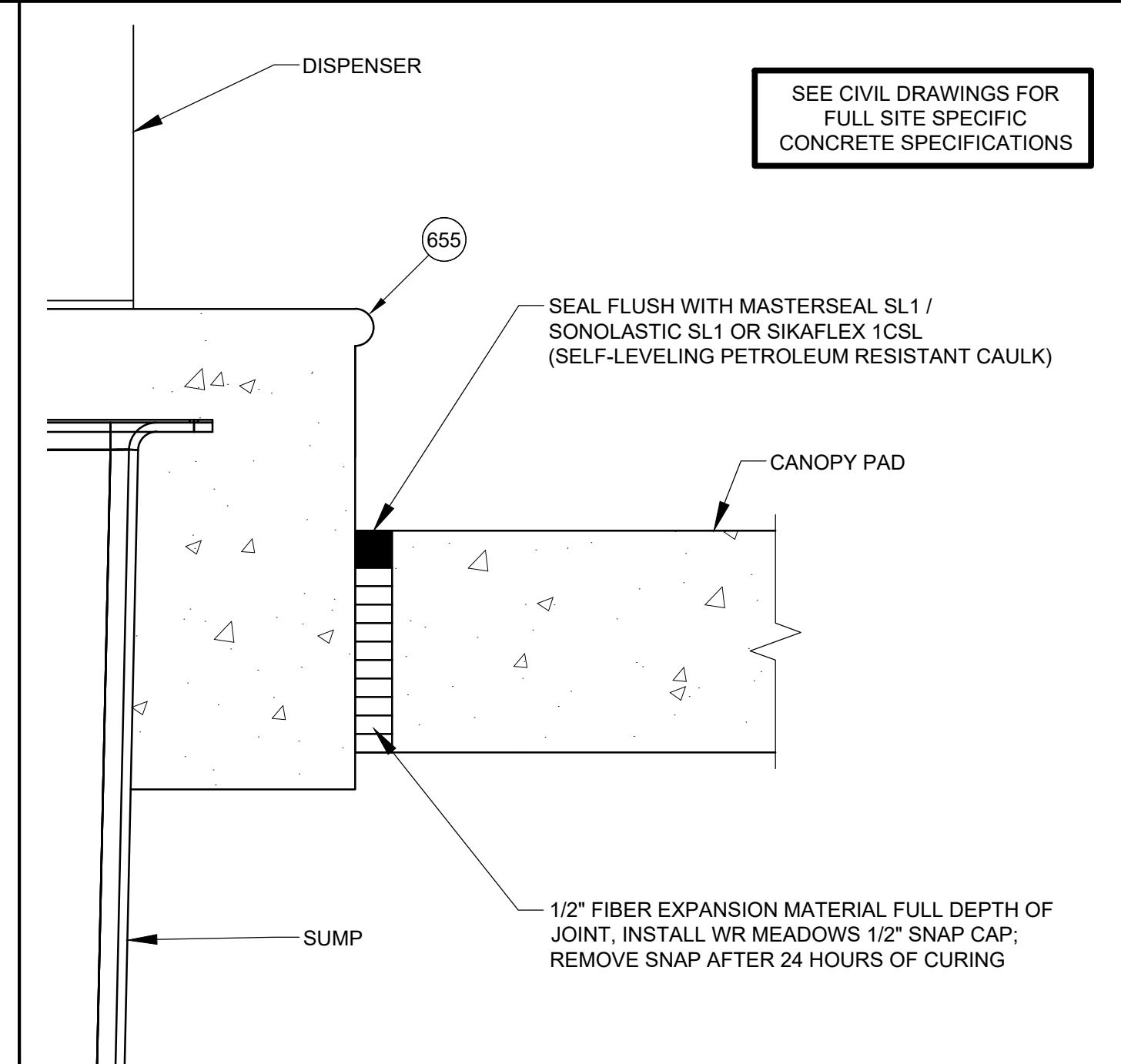
DRAWING NO.
D-2



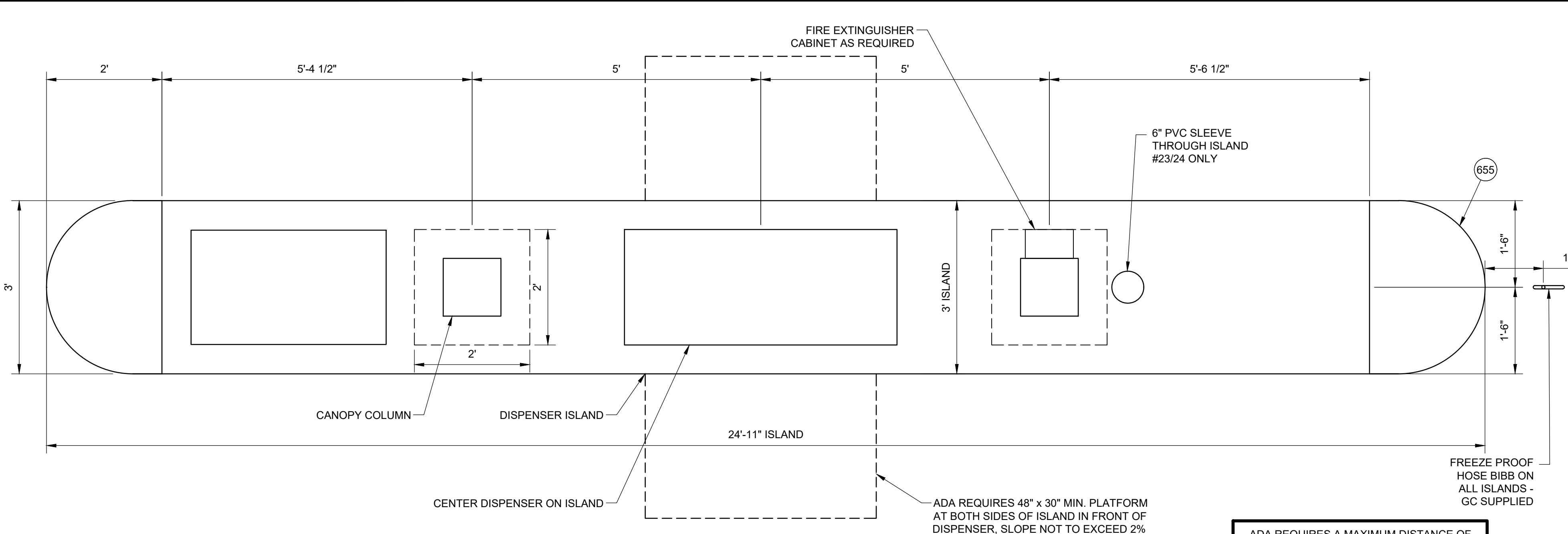
A MASTER/SATELLITE DISPENSER ISLAND - ELEVATION
SCALE: 3/4" = 1'-0"



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



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



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

REVISIONS					
11/29/23	BNH				

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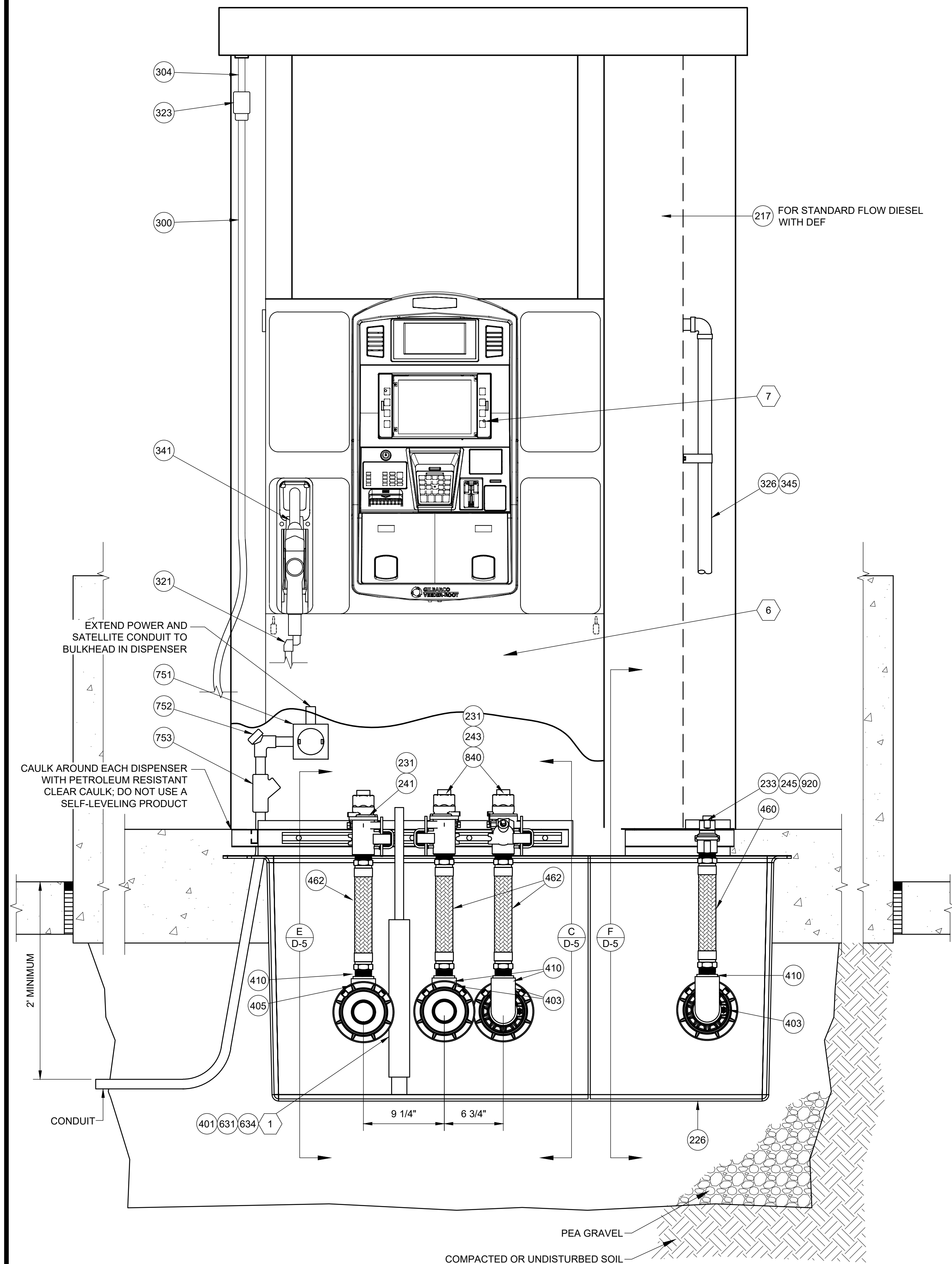
DIAMOND Z ENGINEERING, INC.

GILBARCO ENCORE STANDARD FLOW
DIESEL WITH DEF AND E-O DISPENSER
ISLAND DETAILS

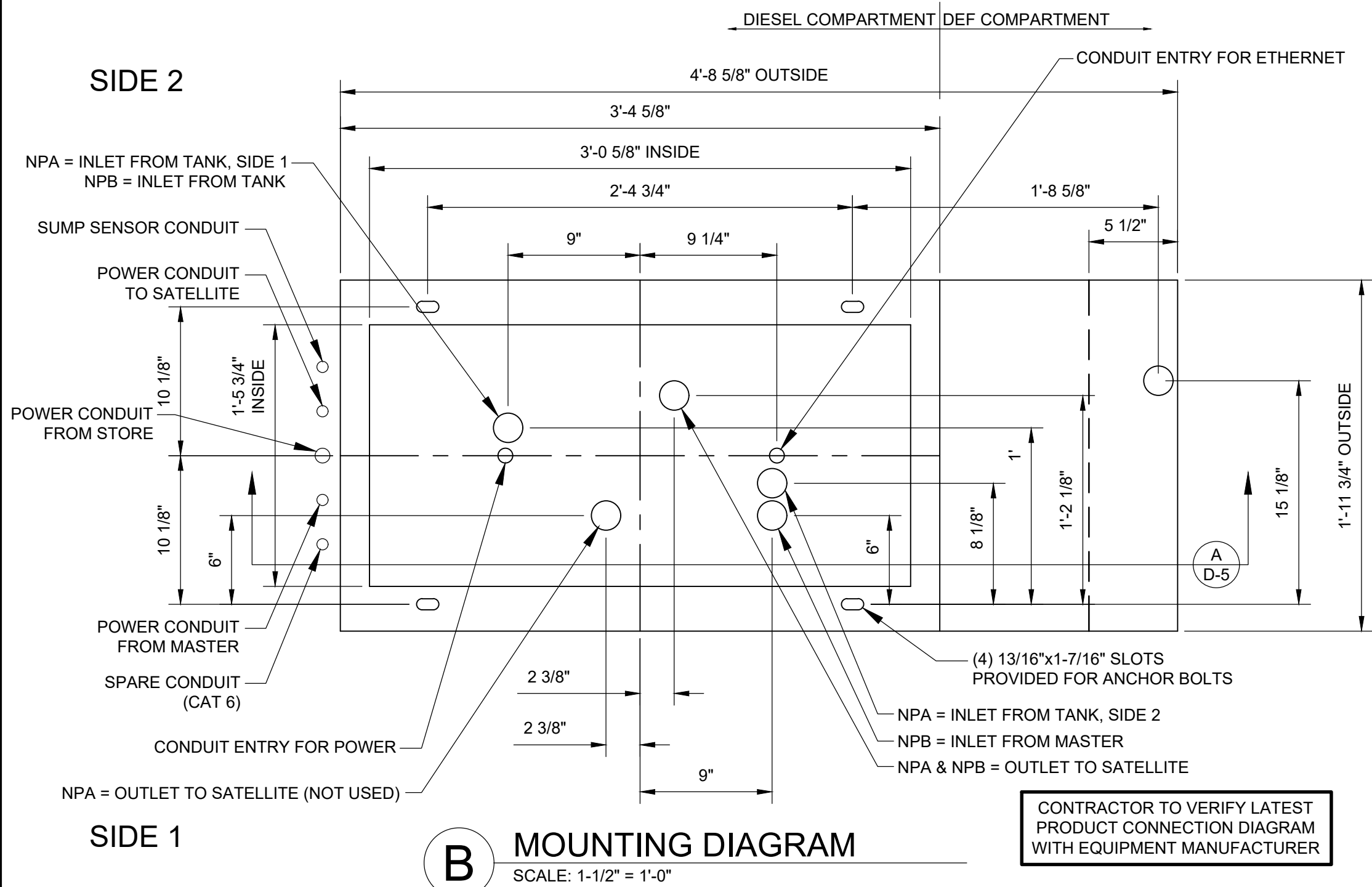
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DRAWING NO. D-3	



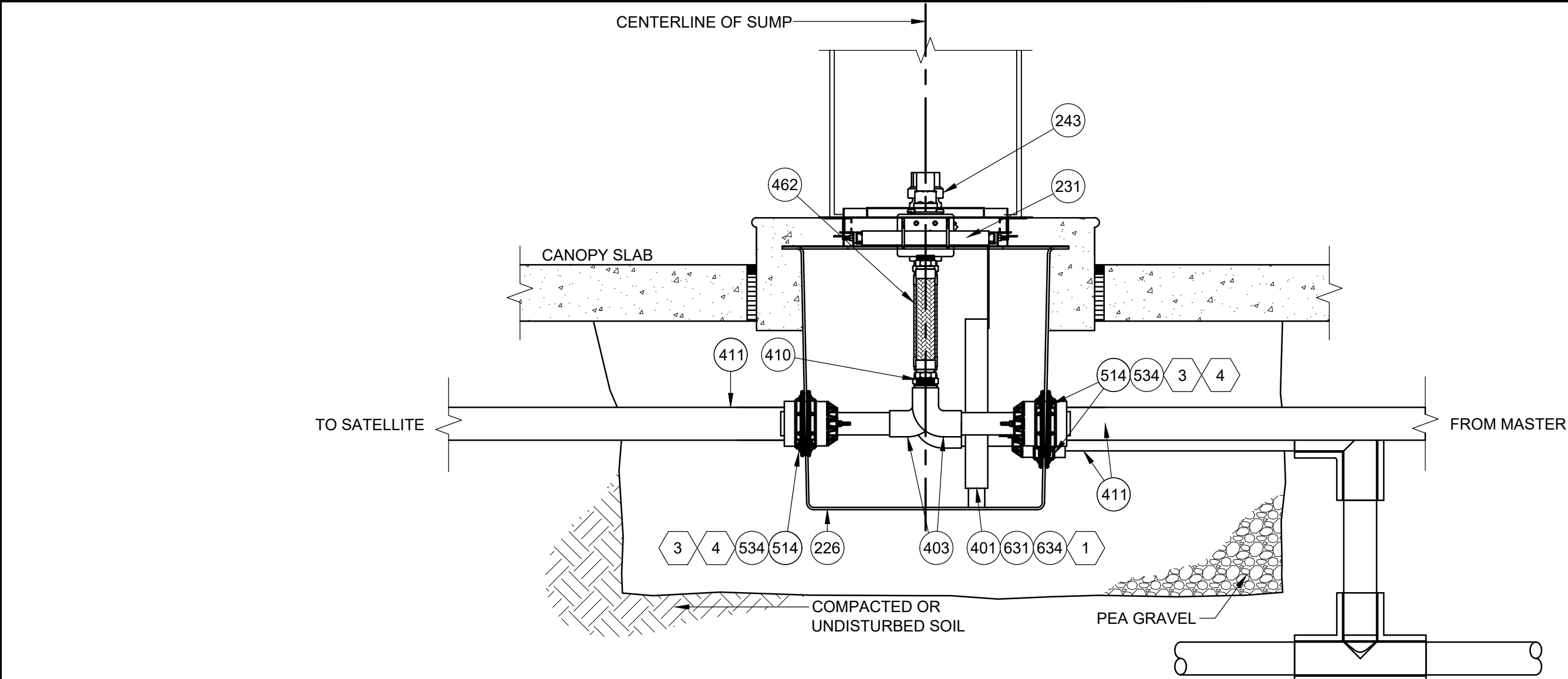
A DISPENSER SUMP FRONT SECTION
SCALE: 1-1/2" = 1'-0"



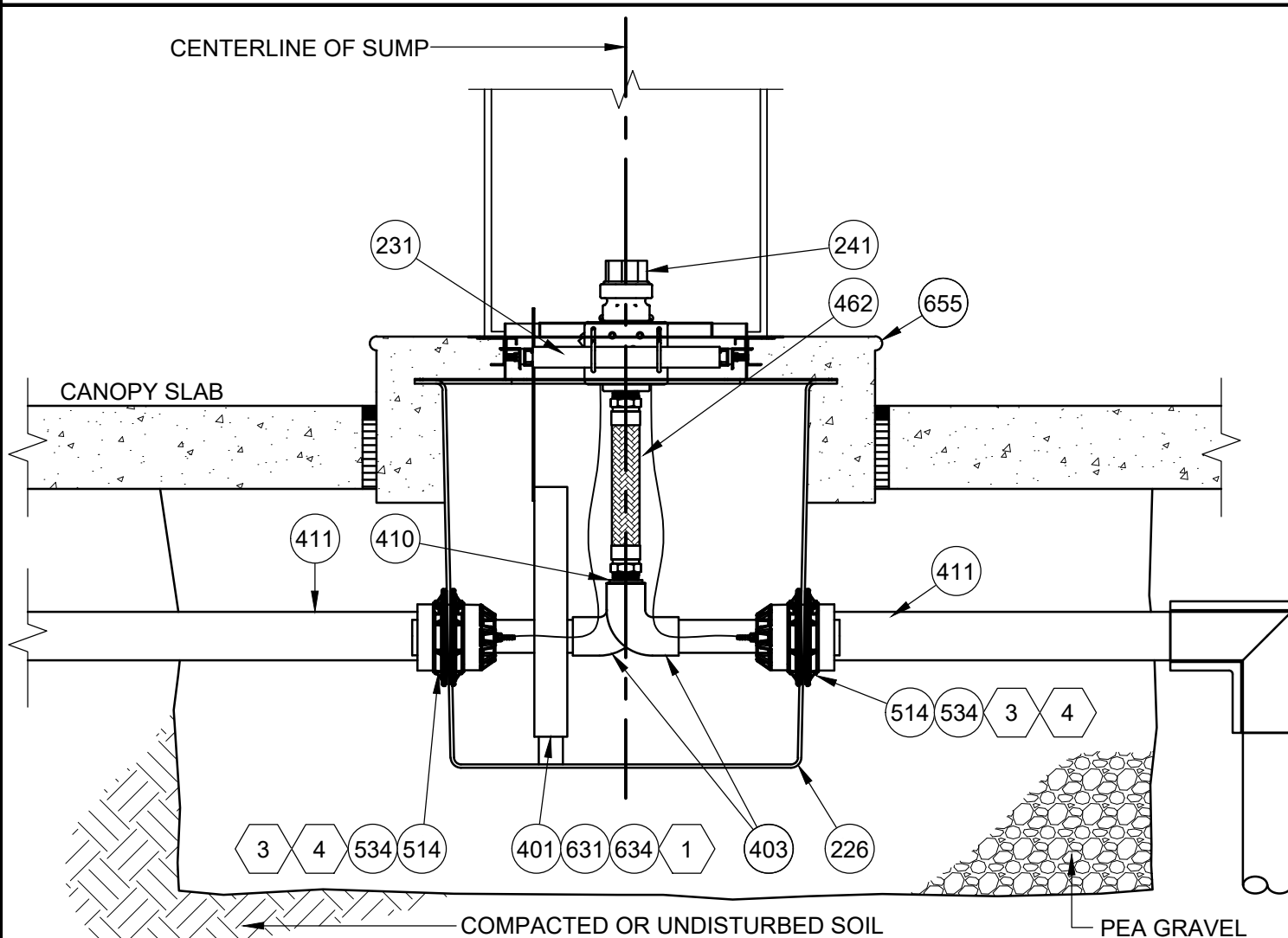
B MOUNTING DIAGRAM
SCALE: 1-1/2" = 1'-0"

CONTRACTOR TO VERIFY LATEST
PRODUCT CONNECTION DIAGRAM
WITH EQUIPMENT MANUFACTURER

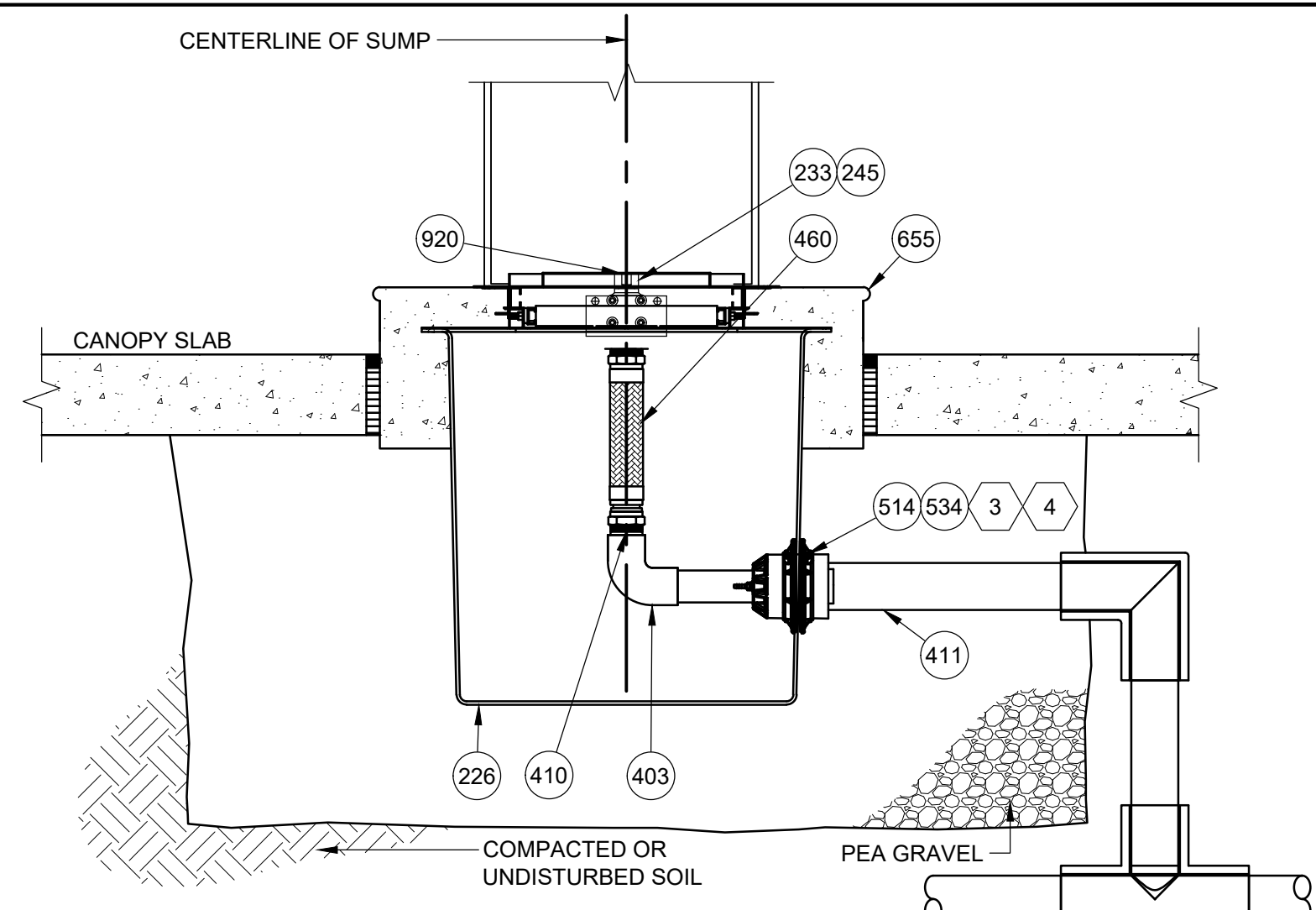
- NOTES:**
1. PROVIDE 18" LONG 2" DIAMETER FRP SLEEVE MOUNTED TO THE SUMP FRAME AND SECURED 2" OFF BOTTOM. SENSOR TO BE PLACED INSIDE OF FRP SLEEVE AND REST ON SUMP BOTTOM.
 2. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" COMPACTED PEA GRAVEL BEDDING. PIPING SHALL NOT BE SUPPORTED BY BLOCKS, 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.



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"

REVISIONS			
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DIAMOND Z
ENGINEERING, INC.
GILBARCO ENCORE STANDARD FLOW
DIESEL WITH DEF DISPENSER DETAILS

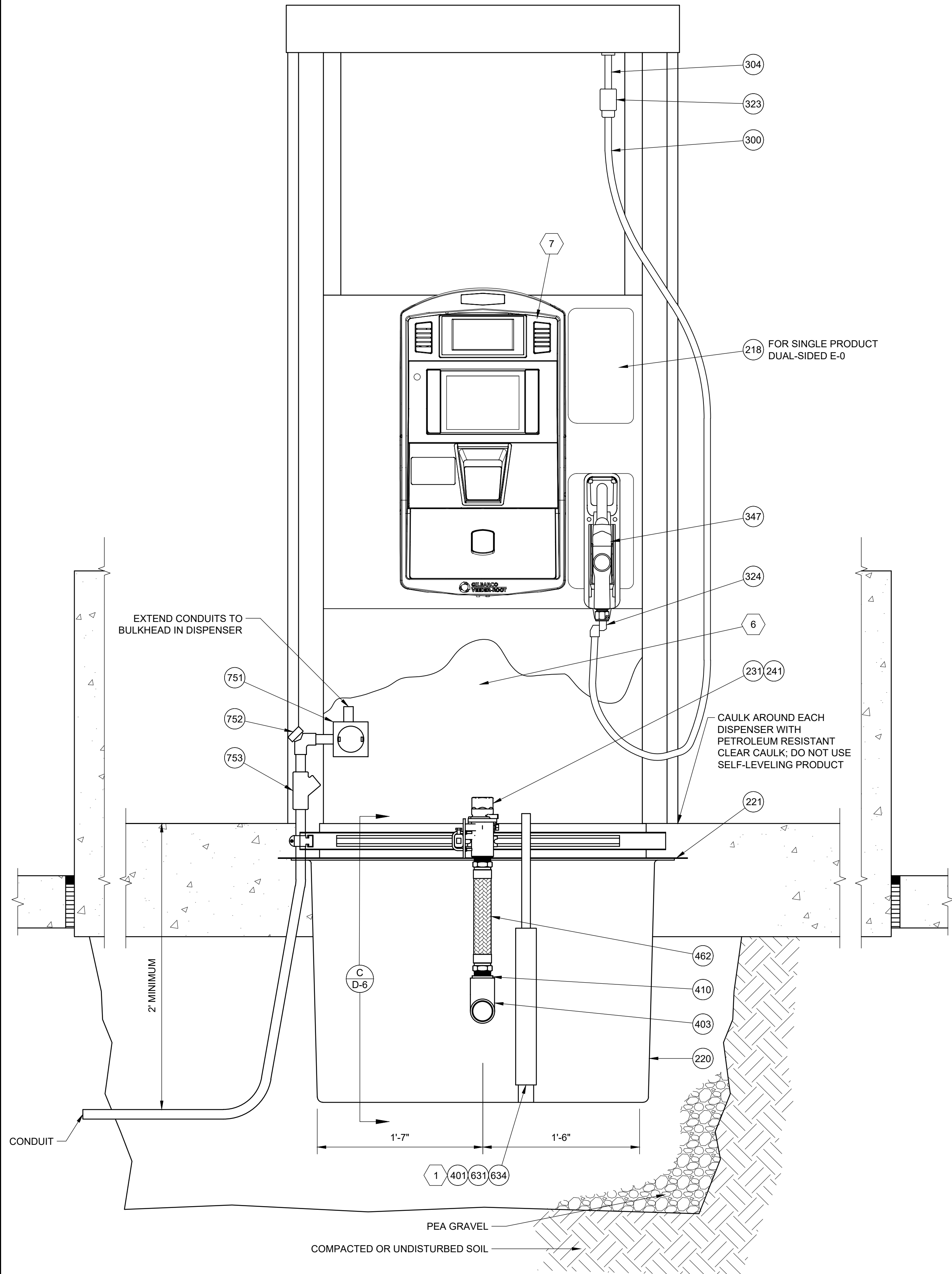
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SCALE: AS NOTED
DATE: 11/29/2023

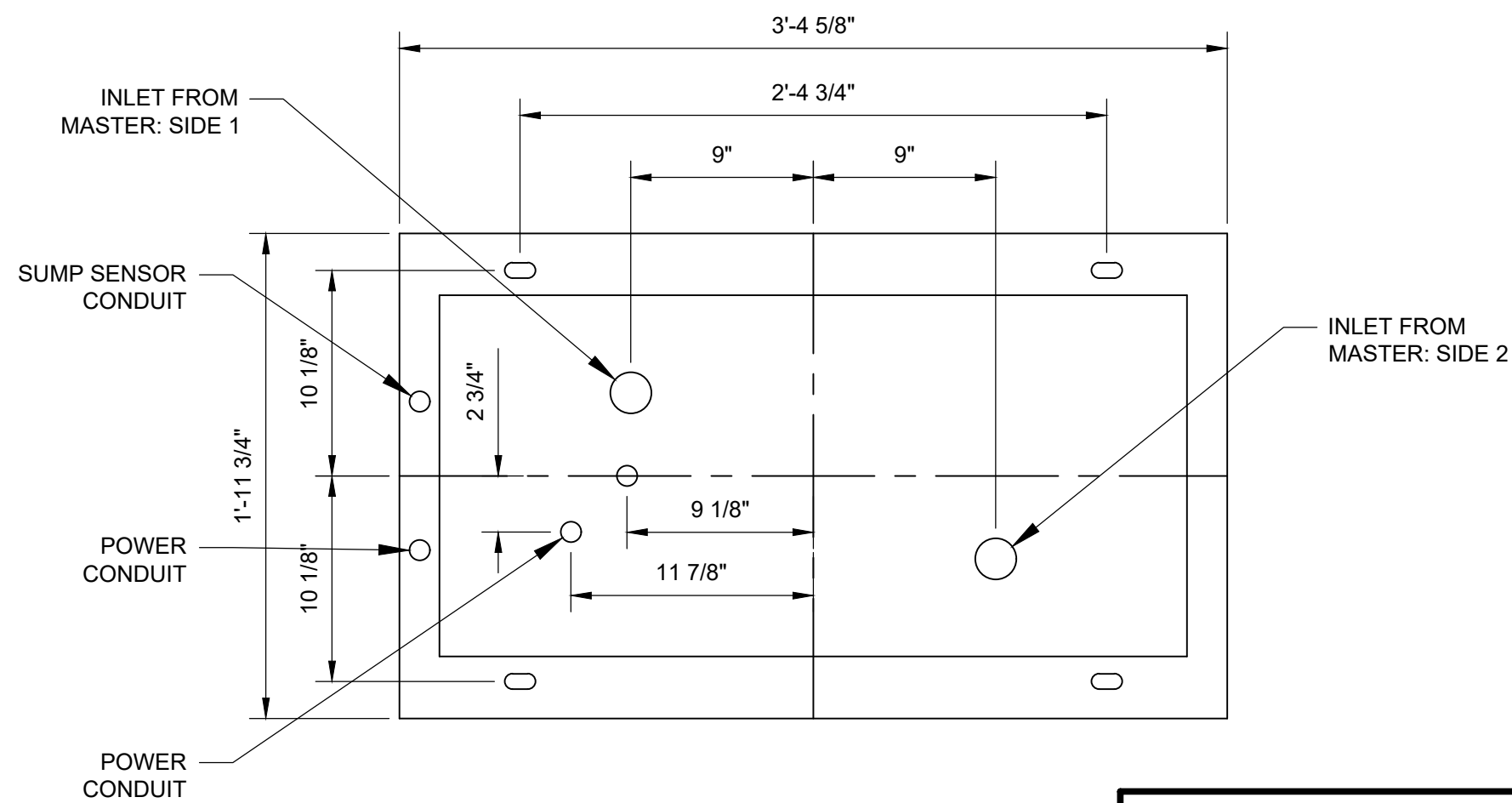
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PROJECT NO.: GA-4605

DRAWING NO.
D-4



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

SIDE 2

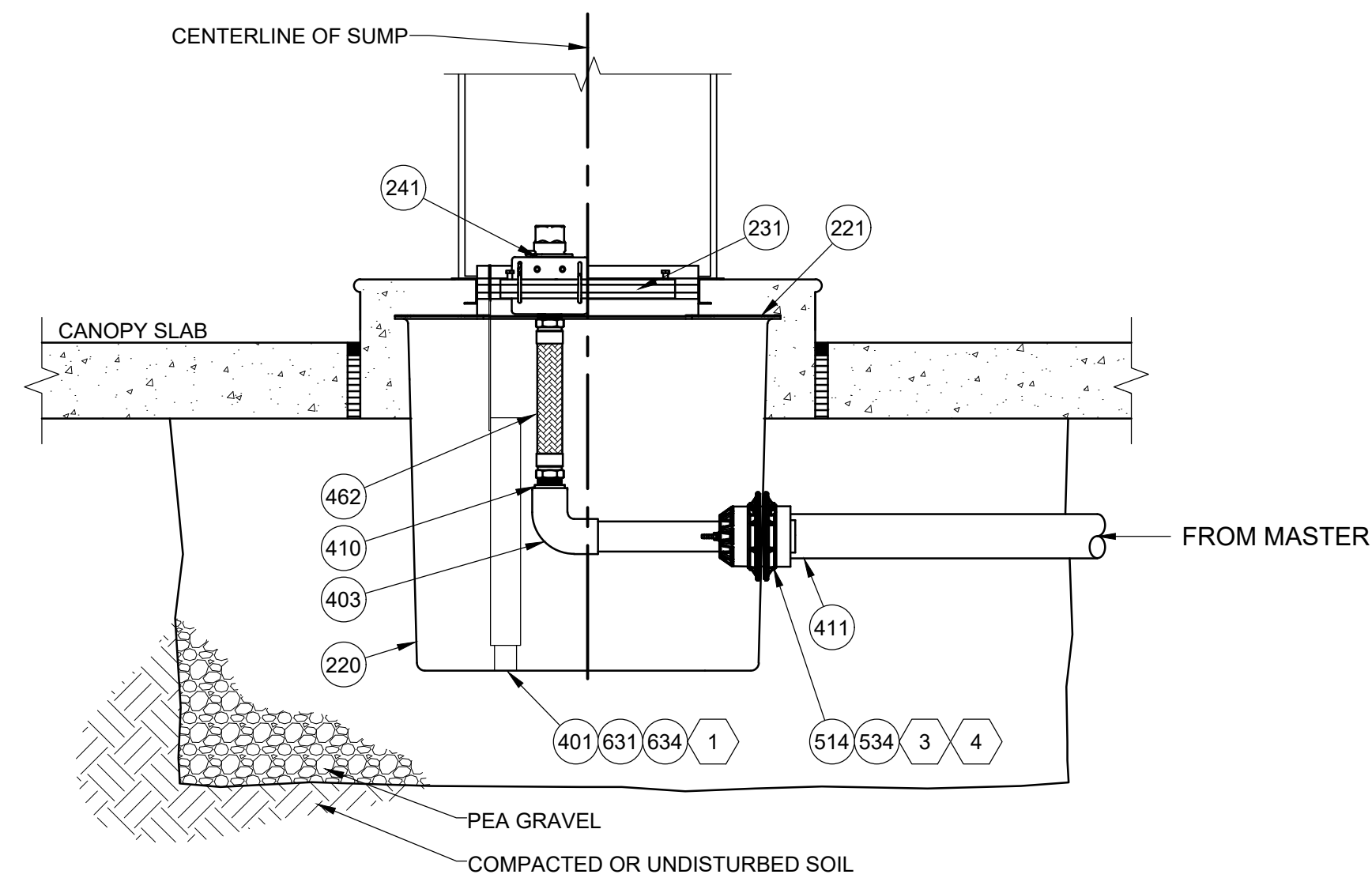


SIDE 1

B DISPENSER MOUNTING DIAGRAM
SCALE: 1-1/2" = 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.



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

REVISIONS					
11/29/23	BNH				
OWNER REVIEW SET					
A	A	A	A	A	A



STORE #1635
2670 LAKE OCONEE PARKWAY
GREENSBORO, GA 30642



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SCALE: AS NOTED	DATE: 11/29/2023
DRAWN BY: BNH	PROJECT NO.: GA-4605

DRAWING NO.
D-5