

ABBREVIATIONS	
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COMPOUND
ABS	Acrylonitrile-butadiene-styrene
ADDL	ADDITIONAL
AF	ABOVE FINISHED FLOOR
AST	ABOVE GROUND STORAGE TANK
ALT	ALTERNATE
BLDG	BUILDING
BLK	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BOT	BOTTOM
BTWN	BETWEEN
BRD	BOARD
BRDR	BOARDER
BTU	BRITISH THERMAL UNIT
BWP	BRACED WALL PANEL
CALCS	CALCULATIONS
C.J.	CONTROL JOINT
C.G.	CEILING
C.G.	CORNER GUARD
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL	DOUBLE
DEV. LEN.=	DEVELOPED LENGTH
D.H.W.	DOUBLE HUNG WINDOW
D.L.	DEAD LOAD
DR.	DOOR
DWL	DRYWALL
DWG	DRAWING
DWL	DRYWALL
DWV	DRAINAGE WASTE VENT
EA	EACH
E.B.	EYEBROW
EF	EACH FACE
ELEC	ELECTRICAL
EL. ELEV.	ELEVATION
E.W.	EACH WAY
EXT.	EXTERIOR
F.E.	FINISH ELEVATION
F.F.E.	FINISH FLOOR ELEVATION
F.G.	FINISH GRADE
FIN.	FINISHED
F.N.	FIELD NAILING
FND.	FOUNDATION
F.O.	FACE OF
F.R.	FIRE RESISTANT
FRMG.	FRAMING
FS	FLOOR SINK
FTG	FOOTING
FRP	FIBERGLASS REINFORCED PANEL
GA.	GAUGE
GLB	GLUE LAMINATED BEAM
GALV.	GALVENIZED
GRD.	GRADE
GWB	GYP SUM WALL BOARD
GYP. BD.	GYP SUM BOARD
H.C.	HOLLOW CORE
HDR.	HEADER
HGT.	HEIGHT
HORIZ.	HORIZONTAL
HR.	HOUR
H.S.	HORIZONTAL SLIDER
HVAC	HEATING, VENTILATION AND AIR- CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IRC	INTERNATIONAL RESIDENTIAL CODE
INSUL.	INSULATION
K	THOUSAND
LAV.	LAVATORY
LDGR.	LEDGER
LIN.	LINEN
L.L.	LIVE LOAD
MAX	MAXIMUM
M.C.	MEDICINE CABINET
MFG.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLDG.	MOULDING
M.T.	METAL THRESHOLD
MTL.	METAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NPW	NON-POTABLE WATER
N.T.S.	NOT TO SCALE
OHD.	OVERHEAD
O.C. O/C	ON CENTER
(O.C.)	OWNER FURNISHED
	CONTRACTOR INSTALLED
(O.O.)	OWNER FURNISHED
	OWNER INSTALLED
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
P.B.	PARTICLE BOARD
PLT.	PLATE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
P.T.	PRESSURE TREATED
PR.	PAIR
QTY.	QUANTITY
R	RADIUS
REINF	REINFORCEMENT
REQ'D.	REQUIRED
REV.	REVERSE(D)
RF.	ROOF
RO	ROUGH OPENING
R.P.B.P	REDUCED PRESSURE PRINCIPLE BACK-FLOW PREVENTION
R&S	ROD & SHELF
S.C.	SOLID CORE
S.D.	SMOKE DETECTOR
S.G.D.	SLIDING GLASS DOOR
SHLF.	SHELF
SM.	SIMILAR
S & S.	SHIRT & SKIRT
SH.& PL.	SHELF & POLE
STL.	STEEL
STND.	STANDARD
STO.	STORAGE
SUSP.	SUSPENDED
T/O	TOP OF
TYP.	TYPICAL
UST	UNDERGROUND STORAGE TANK
VNT	VENT THRU ROOF
W/	WITH

Murphy Development Inc.

PROJECT ADDRESS: 1198 W. Old Highway 66
Ash Fork, AZ 86320
Yavapai County,

JURISDICTION: YAVAPAI COUNTY

A.P.N.: 302-07-267K

ZONING: LOCAL BUSINESS

BLDG. SETBACKS REQD. EXISTING STRUCTURES TO REMAIN

FUEL CANOPY AREA: 2,240 S.F. CANOPY

TYPE OF CONSTRUCTION: VB

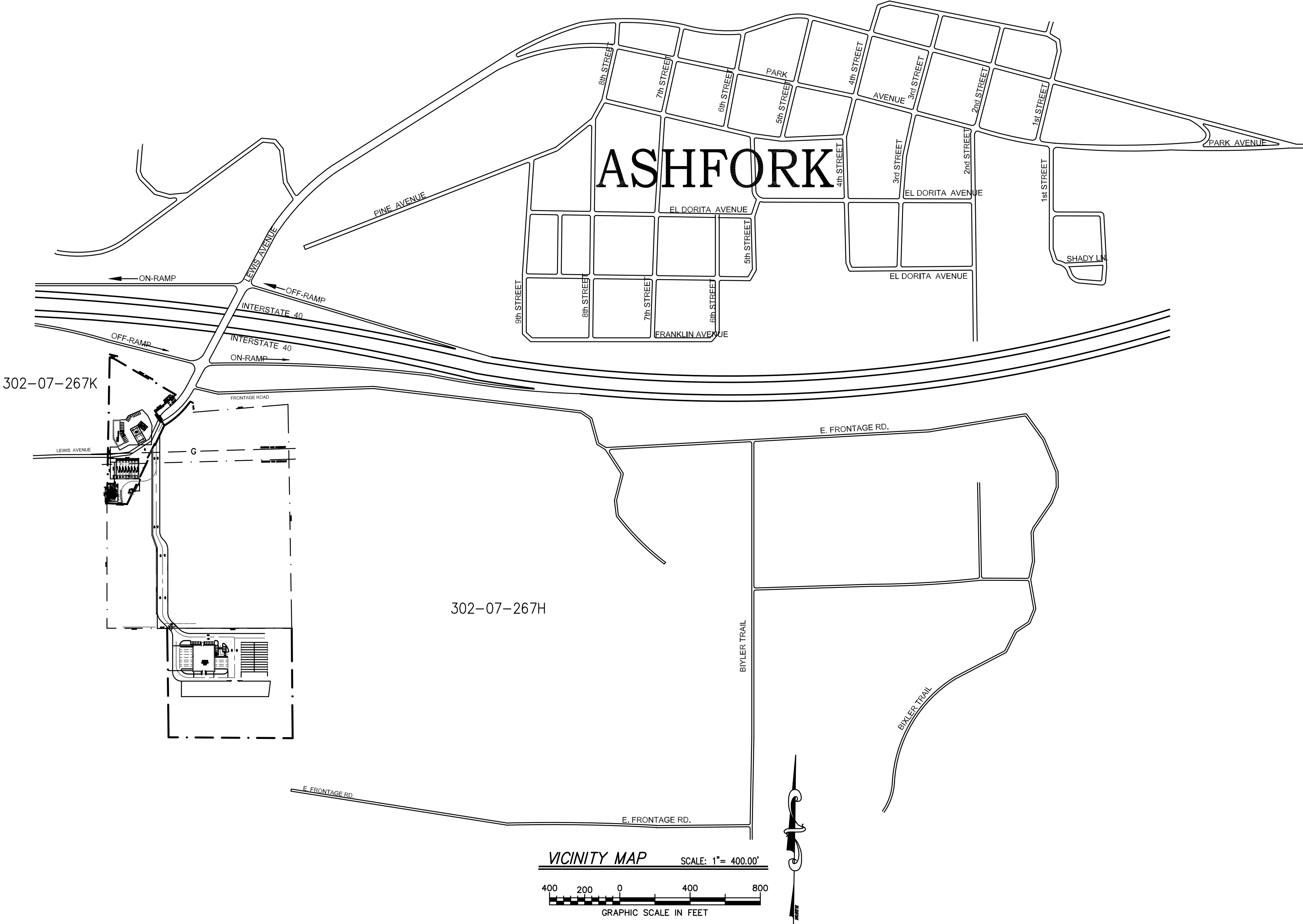
OCCUPANCY: M – GAS STATION, B

SCOPE OF WORK

1. THE ADDITION OF A TRUCK FUELING FACILITY AT THIS EXISTING CONVENIENCE STORE AND FUELING LOCATION CONSISTING OF SIX DIESEL FUELING LANES WITH GILBERT MASTER TRUST/SATELLITE FUEL DISPENSERS.
2. A SCREENED ABOVEGROUND FUEL TANK FARM CONSISTING OF 3 12,000 GALLON DIESEL FUEL TANKS AND ONE 10,000 GALLON DEF TANK.

SPECIAL INSPECTIONS:

1. HIGH STRENGTH BOLTS (Where Occurs).
2018 IBC: Table 1705.3(3): Inspect
Anchors cast in concrete (Reference
Standard ACI 318:17.8.8.2)
2. SEE METAL CANOPY FABRICATORS NOTES.



DESIGN CODES:

Local Codes & Ordinances

- 2018 International Building Codes
- 2018 International Building Code (IBC)
- 2018 International Residential Code (IRC)
- 2018 International Fire code (IFC)
- 2018 International Existing Building Code (IEBC)
- 2018 International Plumbing Code (IPC)
- 2018 International Mechanical Code (IMC)
- 2018 International Fuel Gas Code (IFGC)
- 2017 National Electrical Code (NEC)
- (A.P.I.) American Petroleum Institute Standards.

THESE DOCUMENTS PROVIDE FOR THE INSTALLATION OF PETROLEUM PRODUCTS ONLY. STRUCTURE AND ALL OTHER ON AND OFF SITE IMPROVEMENTS BY OTHERS, AND SEPARATE INSTRUMENT. OUTSIDE SCOPE OF WORK OF THESE DOCUMENTS, U.N.O..

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17 of 17	PP-SP	GENERAL NOTES & SPECS

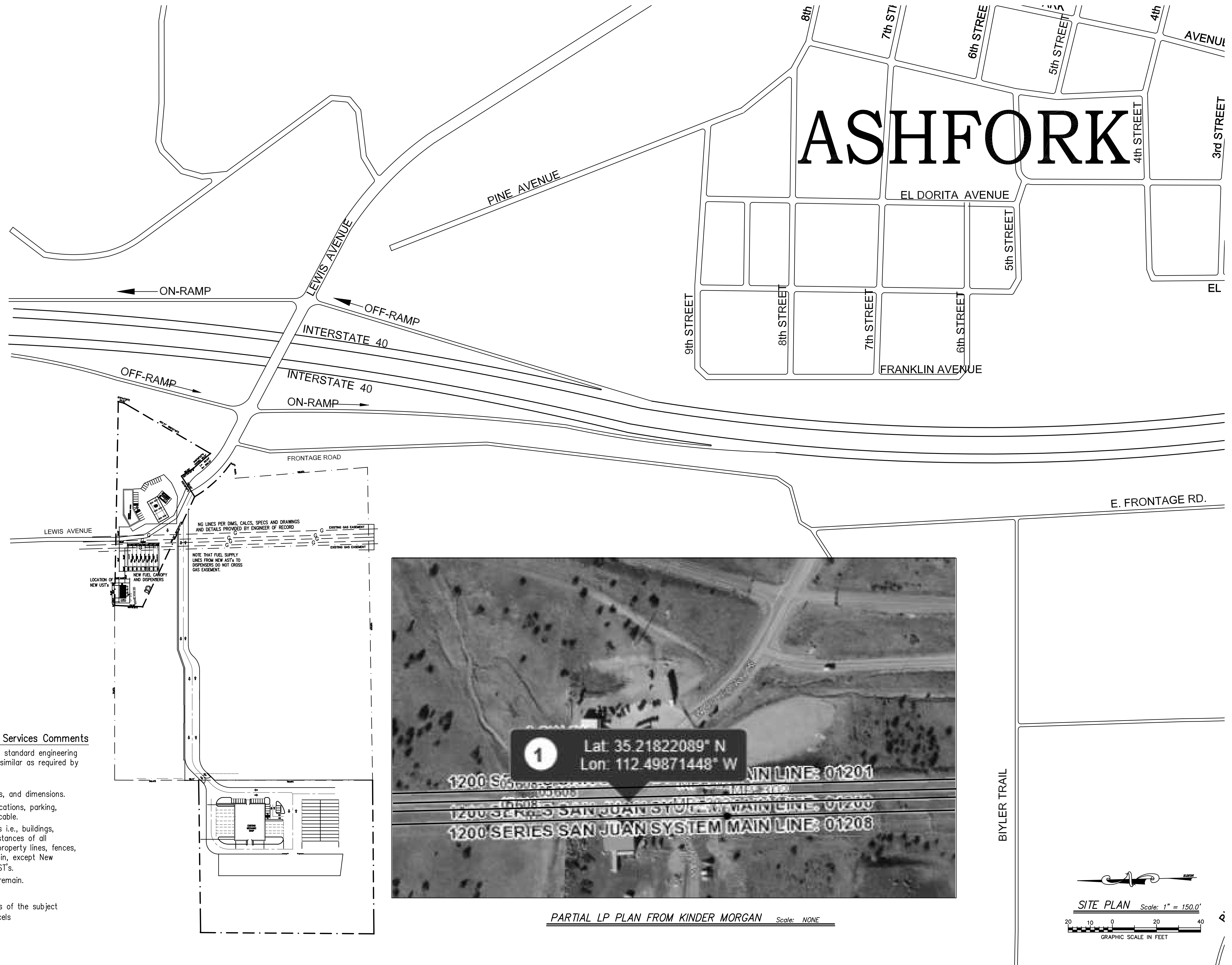
These drawings, as provided by AzTech Petroleum, are reviewed and approved for petroleum product equipment under the terms and conditions of our signed contract. The use of these drawings shall be restricted to the site for which prepared.

AzTech Petroleum Service, Inc.
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Fax: 928.682.0928

Murphy Development Inc.
Murphy Development
1198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: .302-07-267k

R E V I S I O N S	
MARK	DATE
	NOTES

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE:
COVER SHEET & INDEX
SHEET NUMBER:
COVER
1 of 17



Yavapai County Development Services Comments

- Site plan drawn to scale using standard engineering intervals such as 1" = 50' or similar as required by project size.
- North arrow.
- Show property lines, easements, and dimensions.
- Proposed Building/Structure locations, parking, screening, and lighting if applicable.
- Show all existing improvements i.e., buildings, wastewater systems, depict distances of all improvements from proposed property lines, fences, utilities, etc.: Existing to remain, except New Canopy with dispensers and AST's.
- Landscaped area: Existing to remain.
- Setbacks
- Acreage, zoning, and land uses of the subject parcel(s) & of contiguous parcels

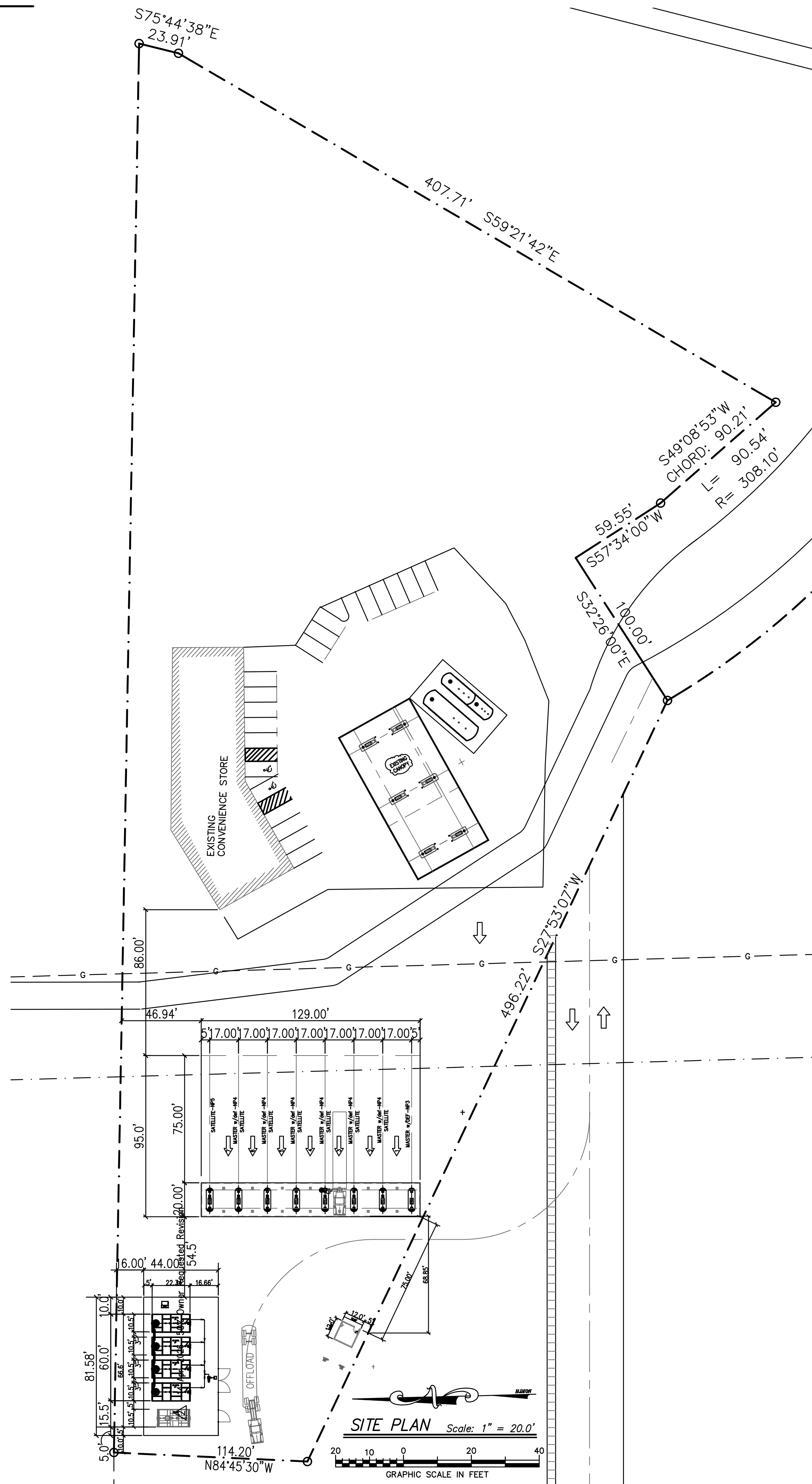
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1	14 Apr. 2026	50% Owner Requested Revision

DATE:	APRIL 16, 2026
SCALE:	AS NOTED
DRAWN:	SRT
CHECKED:	PT
SHEET TITLE:	OVERALL SITE PLAN
SHEET NUMBER:	SITE-1.0
2	of 17

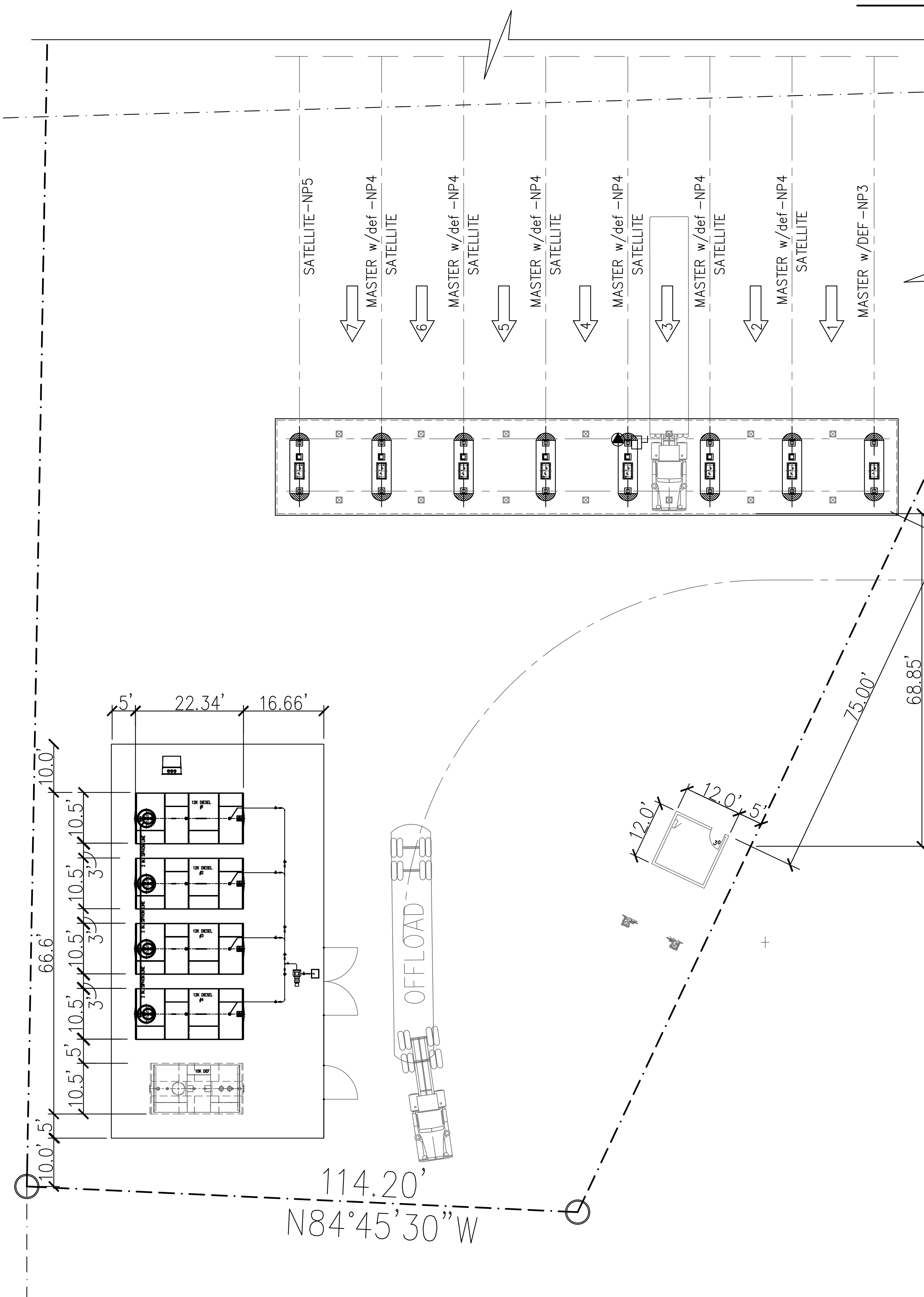


2018 IFC® CODE and COMMENTARY EXCERPTS

- A. Chapter 23: Motor Fuel-Dispensing Facilities and Repair Garages
- 2303.2 Emergency disconnect switches. An approved emergency disconnect switch shall be provided at an approved location to stop the transfer of fuel to the fuel dispensers in the event of a fuel spill or other emergency. The emergency disconnect switch for exterior fuel dispensers shall be provided with ready access and shall be located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, the fuel dispensers. For interior fuel-dispensing operations, the emergency disconnect switch shall be provided with ready access and be installed at an approved location. Such devices shall be distinctly labeled as: EMERGENCY FUEL SHUTOFF.
- Signs shall be provided in approved locations.
- B. 2303.2.1 Height. The height of the emergency disconnect switch shall be not less than 42 inches (1067 mm) and not more than 48 inches (1372 mm) measured vertically, from the floor level to the activating button.
- C. NOTE: IFC Section 2308 regulates COMPRESSED NATURAL GAS (CNG) MOTOR FUELING-DISPENSING FACILITIES:
1. Sections 2308.6 & 2308.7 DOES NOT APPLY TO THIS SITE.
- D. 2305.5 Fire extinguishers. Approved portable fire extinguishers complying with Section 906 with a minimum rating of 2-A:20-B:C shall be provided and located such that an extinguisher is not more than 75 feet (22 860 mm) from pumps, dispensers or storage tank fill-pipe openings.
- E. 2305.6 Warning signs. Warning signs shall be conspicuously posted within sight of each dispenser in the fuel-dispensing area and shall state the following:
1. No smoking.
 2. Shut off motor.
 3. Discharge your static electricity before fueling by touching a metal surface away from the nozzle.
 4. To prevent static charge, do not reenter your vehicle while gasoline is pumping.
 5. If a fire starts, do not remove nozzle-back away immediately.
 6. It is unlawful and dangerous to dispense gasoline into unapproved containers.
 7. No filling of portable containers in or on a motor vehicle, place container on ground before filling.
- F. 2306.4 Physical protection. Guard posts complying with Section 312 (see sheet PP-3.3) or other approved means shall be provided to protect above ground tanks against impact by a motor vehicle unless the tank is listed as a protected above ground tank with vehicle impact protection.

□ Aboveground tanks used for outside, aboveground storage of motor fuels classified as Class I, II or III liquids must comply with IFC Chapter 57 (Flammable and Combustible Liquids) and one of the following 6 options. For Options 1 and 2, individual tanks are limited to 12,000 gallons capacity, and the aggregate capacity for any group of tanks is limited to 48,000 gallons. Additional tank groups must be separated by not less than 100 feet:

1. Class I liquid fuels stored in protected aboveground tanks that are listed and labeled per UL 2085 (IFC: 2306.2.3(1)).
2. Class II and IIIA liquid fuels stored in protected aboveground tanks that are listed and labeled per UL 2085 unless the fire code official specifically approves use of another aboveground tank type (IFC: 2306.2.3(2)).
3. For aboveground tanks at farms, construction projects and rural areas, use Section 5706.2 (IFC: 2306.2.3(3)).
4. Class IIIB liquid fuels stored in tanks that are listed and labeled per UL 2085 or UL 142 (IFC: 2306.2.3(5)).
5. Where approved by the code official, Class I, II or III liquids in temporary portable tanks without public access.
6. Class I, II and III liquids in aboveground tanks in vaults or in special enclosures (IFC 2306.2.4 and 2306.2.6).



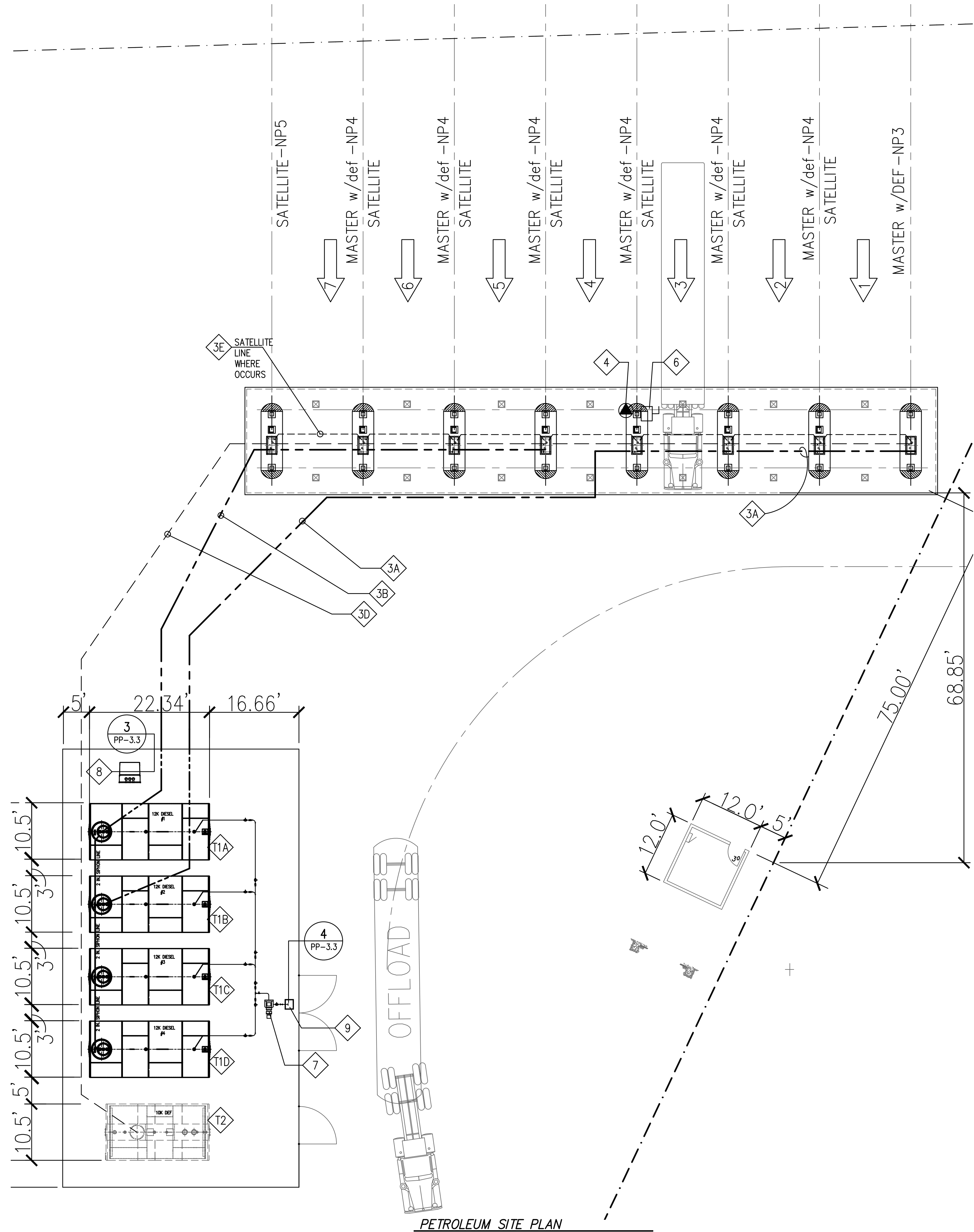
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Yavapai County APN: .302-07-267k

REVISIONS			
MARK	DATE	NOTES	150% Owner Requested Revision
1	14 Apr. 2026	50% Owner Requested Revision	
2			
3			
4			
5			

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE: LARGE SALE SITE PLAN
SHEET NUMBER: 3 of 17



KEY NOTES

- DIESEL CANOPY PER DIMS, CALCS, SPECS AND DRAWINGS FROM ACCREDITED PROVIDER.
- TRUE NORTH PETROLEUM TANK FARM:
 - T1 (4) 12,000 GAL. TRUE NORTH ABOVE GROUND (AST) FUEL TANKS
 - T2 (1) 10,000 GAL. TRUE NORTH UNDER GROUND (UST) DEF TANK.
- NOV SYSTEMS 3" LCK DOUBLE WALL FIBERGLASS PIPING FROM FUEL TANKS TO DISPENSERS, WITH LIQUID TIGHT ENTRY BOOTS ON ALL FITTINGS. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.
 - A. DIESEL TANK A: ————▶———
 - B. DIESEL TANK B: ————▶———
 - C. DIESEL TANK C: ————▶———
 - D. D.E.F. ————▶———
 - E. SATELLITE RETURN LINE: ————▶———
 - F. SIPHON LINE ————▶———
- FIRE EXTINGUISHER (4 A 80 BC, OR BETTER) MOUNTED TO COLUMN AT DISPENSER, OR ON POLE MOUNTED CABINET AT TANK FARM. (SITE VERIFY LOCATION)
- 2018 IFC – Chapter 23: Motor Fuel-Dispensing Facilities and Repair Garages 2305.5 Fire extinguishers. Approved portable fire extinguishers complying with Section 906 with a minimum rating of 2-A:20-B:C shall be provided and located such that an extinguisher is not more than 75 feet (22 860 mm) from pumps, dispensers or storage tank fill-pipe openings.
- 2303.2 emergency disconnect switches:

An approved, clearly identified and readily accessible emergency disconnect switch shall be provided at an approved location to stop the transfer of fuel to the fuel dispensers in the event of a fuel spill or other emergency. an emergency disconnect switch for exterior fuel dispensers shall be located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, the fuel dispensers. for interior fuel-dispensing operations, the emergency disconnect switch shall be installed at an approved location. such devices shall be distinctly labeled as: emergency fuel shutoff. signs shall be provided in approved locations.

2303.2.1 Height:
The height of the emergency disconnect switch shall be not less than 42 inches (1067 mm) and not more than 48 inches (1372 mm) measured vertically, from the floor level to the activating button.
- Gorman Rupp (or equal) offload pump (per contract)
- Bravo ast Transition Sump b944-s48
- Baker Industries northwest #700 series spill containment unit

GENERAL NOTES

- Gilbarco dispensers with new piping and dispenser sumps.
- All piping, fill caps, vapor recovery fittings, manholes, etc. shall be color-coded with paint per latest "api" requirements.
- Pitch all vapor recovery and vent piping up min. 1/8 in. per foot from piping sumps to dispensers or vent.
- All work near gasoline dispensing area and storage tank area shall be done in accordance with class 1 division 1 hazardous location national electric code requirements.
- During construction and prior to final acceptance by the owner all tanks shall be ballasted as required per manufacturers instructions & recommendations. upon final acceptance by owner contractor shall empty tank(s) completely for initial product fill. no gasoline shall be provided prior to acceptance of installation. submerged pumps are not to be used for water removal.
- Installation of petroleum storage tanks, submersible pumps, dispensers and system accessories shall be in strict accordance with manufacturers instructions and recommendations.
- Gasoline storage and dispensing systems shall be in accordance with all applicable codes and standards.
- 2018 IFC: 2305.6 Warning signs.

Warning signs shall be conspicuously posted within sight of each dispenser in the fuel-dispensing area and shall state the following:

 - No smoking.
 - Shut off motor.
 - Discharge your static electricity before fueling by touching a metal surface away from the nozzle.
 - To prevent static charge, do not reenter your vehicle while gasoline is pumping.
 - If a fire starts, do not remove nozzle --back away immediately.
- It is unlawful and dangerous to dispense gasoline into unapproved containers.
- No filling of portable containers in or on a motor vehicle. place container on ground before filling.
- All hazardous explosive electrical connections to comply with the 2017 NEC.
- Work to comply with applicable requirements of 2018 IFC Chapter 57: Flammable and Combustible Liquids
- 2306.7.5 Dispenser hose
Dispenser hoses shall be not more than 18 feet (5486 mm) in length unless otherwise approved. Dispenser hoses shall be listed and approved. When not in use, hoses shall be reeled, racked or otherwise protected from damage.

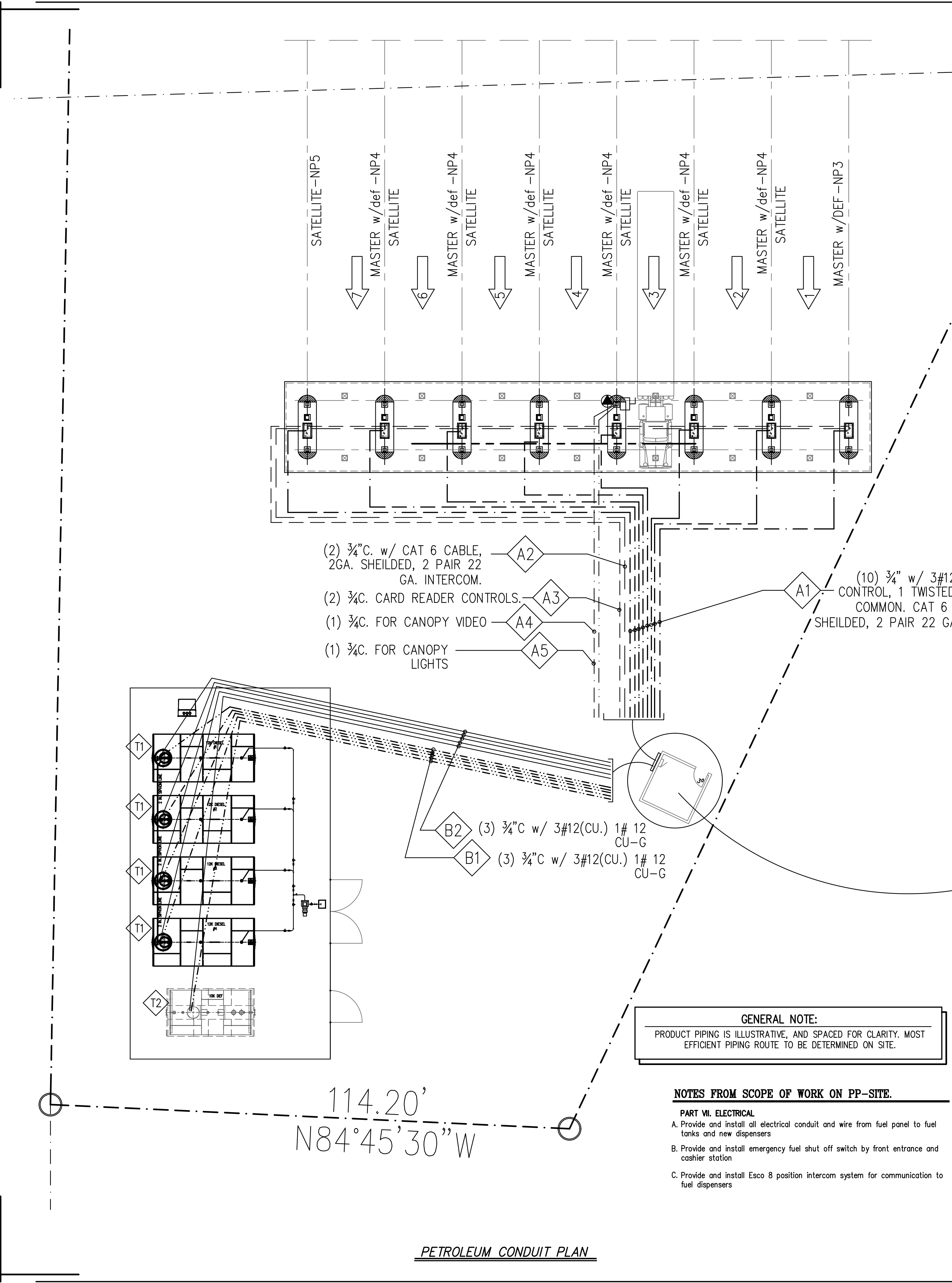
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Drawings For –
Murphy Development Inc.
Murphy Development
1198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: .302-07-267K

R E V I S I O N S			
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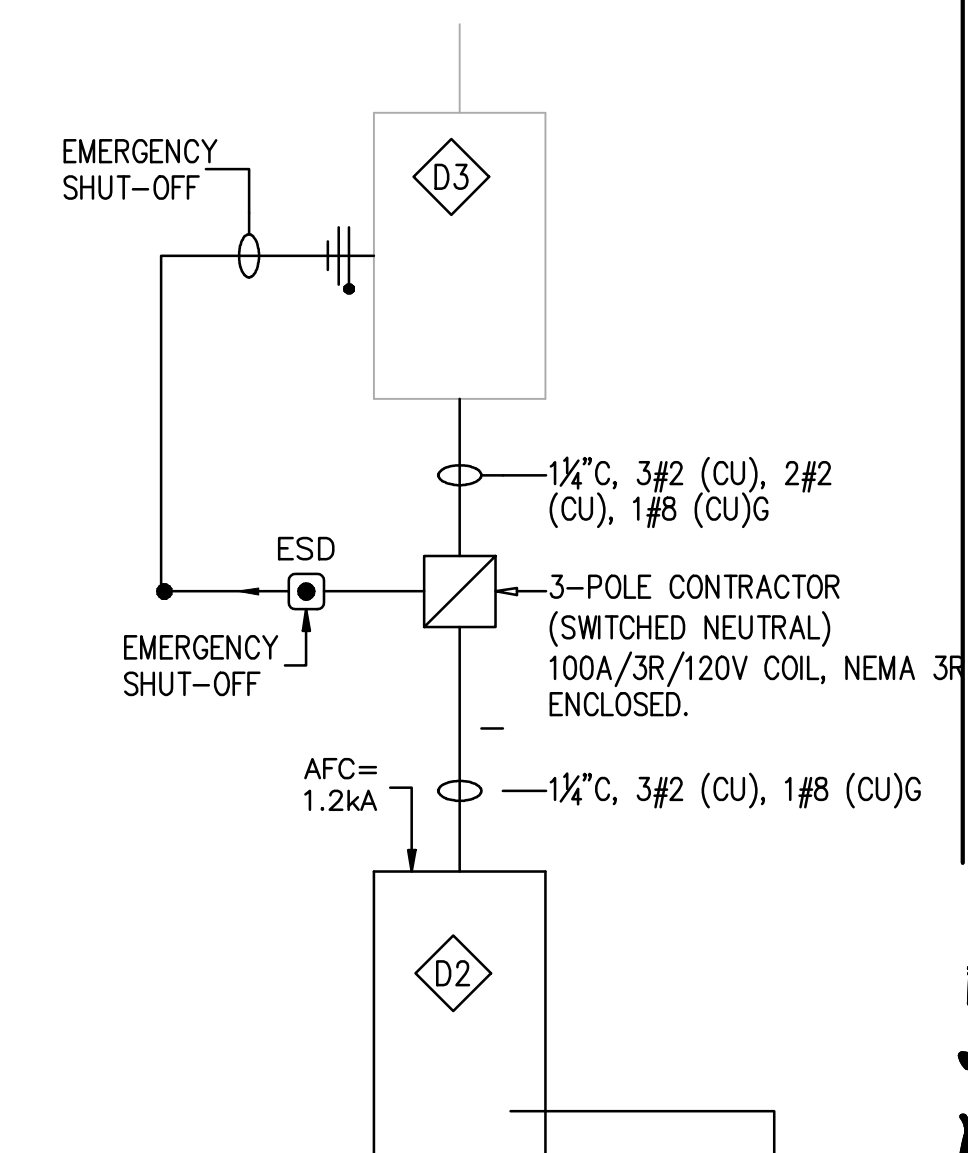
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SCALE:	AS NOTED
DRAWN:	SRT
CHECKED:	PT
SHEET TITLE:	PETROLEUM PIPING PLAN
SHEET NUMBER:	PP-1.0
4 of 17	



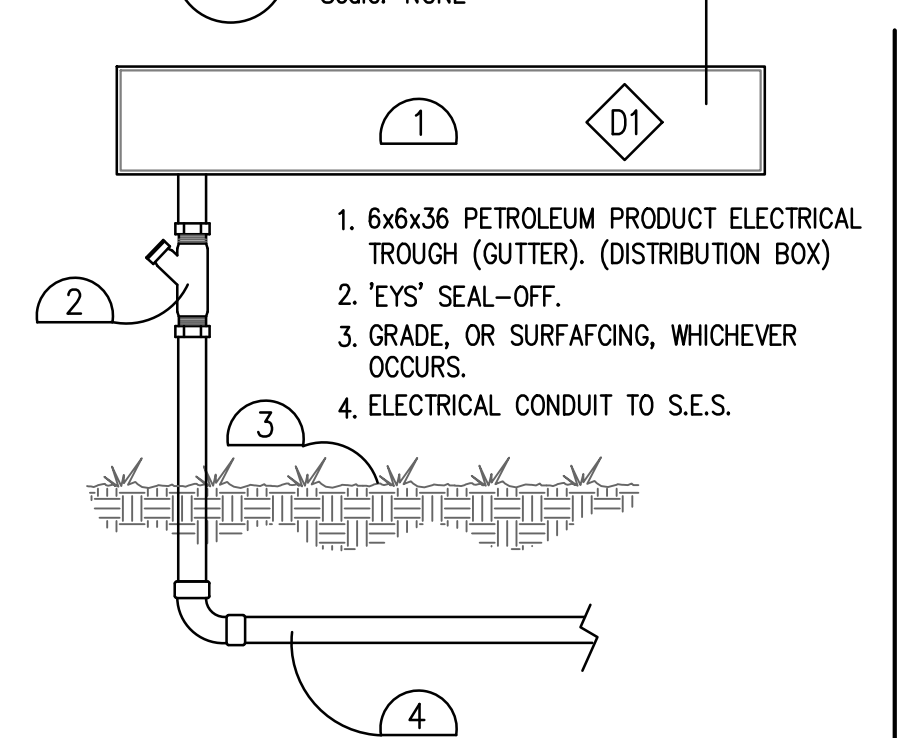
ELECTRICAL LEGEND

- ELEC. CONDUITS TO FRONT DISPENSER:**
NOTE: DETERMINE IF EXISTING WIRING AND CONDUIT (FROM EXISTING PETROLEUM EQUIPMENT PANELBOARD) TO DISPENSERS MAY BE USED IN PLACE.
- A1 DISPENSER POWER
3/4" WRAPPED IMC w/10 MIL. TAPE TO DISPENSERS. PROVIDE SEAL OFF ON BOTH ENDS.
 - A2 DISPENSER MONITOR SENSOR AND INTERCOM
3/4" WRAPPED IMC w/10 MIL. TAPE TO DISPENSER MONITOR LIQUID SENSORS.
 - A3 CARD READER
3/4" WRAPPED IMC w/10 MIL.
 - A4 CANOPY VIDEO
3/4" WRAPPED IMC w/10 MIL.
 - A5 CANOPY LIGHTS
3/4" WRAPPED IMC w/10 MIL. TAPE TO CANOPY LIGHTING. (VERIFY LIGHTING AND CONDUIT LOCATIONS w/PROPOSED CANOPY DESIGN [BY OTHERS] PRIOR TO CONSTRUCTION).
- ELEC. CONDUITS TO TANK FARM:**
- B1 TURBINE POWER
3 ~ 1/2" WRAPPED IMC w/10 MIL. TAPE TO TURBINE POWER.
 - B2 TURBINE MONITOR
3 ~ 3/4" WRAPPED IMC w/10 MIL. TAPE TO TURBIN MONITOR.
 - B3 OVERFILLLIGHT ON ALARM
1 ~ 3/4" WRAPPED IMC w/10 MIL. TAPE TO OVERFIL LIGHT

- EMERGENCY DISCONNECT.**
LINE OF SIGHT DISCONNECT'S @ PERIMETER AND CASHIERS AREA. FIELD VERIFY LOCATIONS (APPROVED BY FIRE MARSHAL) PRIOR TO INSTALLATION.
MINIMUM 20 FT., MAXIMUM 100 FT. FROM DISPENSERS.
- PANEL BOARD AND PULL STATION:**
- D1 PULL BOXES.
SURFACE MOUNT 6"x6"x36" (RAIN TIGHT GUTTER) PETROLEUM PRODUCT PULL BOX.
 - D2 SES & SHUNT TRIP PANEL BOARD
A. PETROLEUM PRODUCT ELECTRICAL SYSTEMS TO BE PULLED TO EXISTING PETROLEUM PANEL BOARD LOCATION.
B. MOST EFFICIENT ROUTING TO BE DETERMINED ON SITE.
 - E TANK MONITOR. (VERIFY INSTALLATION LOCATION PRIOR TO CONSTRUCTION).
 - F PROVIDE (2)-1" PVC CONDUIT FROM PULL STATION TO JUNCTION BOX AT CASHIER COUNTER (VERIFY LOCATION).
- PANEL BOARD AND PULL STATION:**
- G ELECTRICAL ROOM
1. PROVIDE NEW ELECTRICAL SERVICE FOR NEW TRUCK FUELING AREA.
2. SURFACE MOUNT 6"x6"x36" (RAIN TIGHT GUTTER) PETROLEUM PRODUCT PULL BOX.



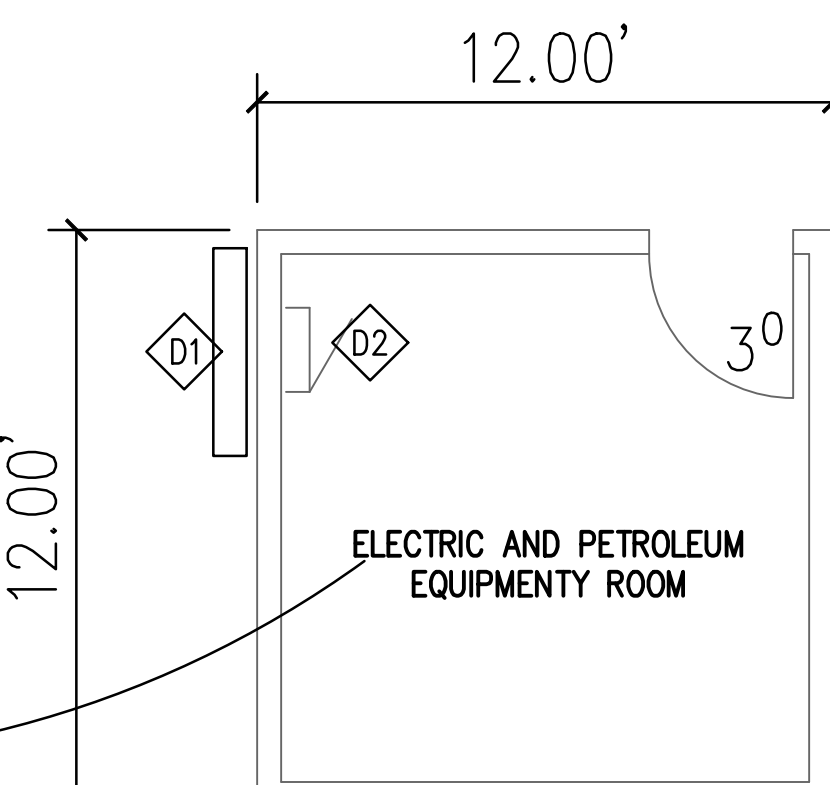
1 ONE LINE DIAGRAM
PP-1.1 Scale: NONE



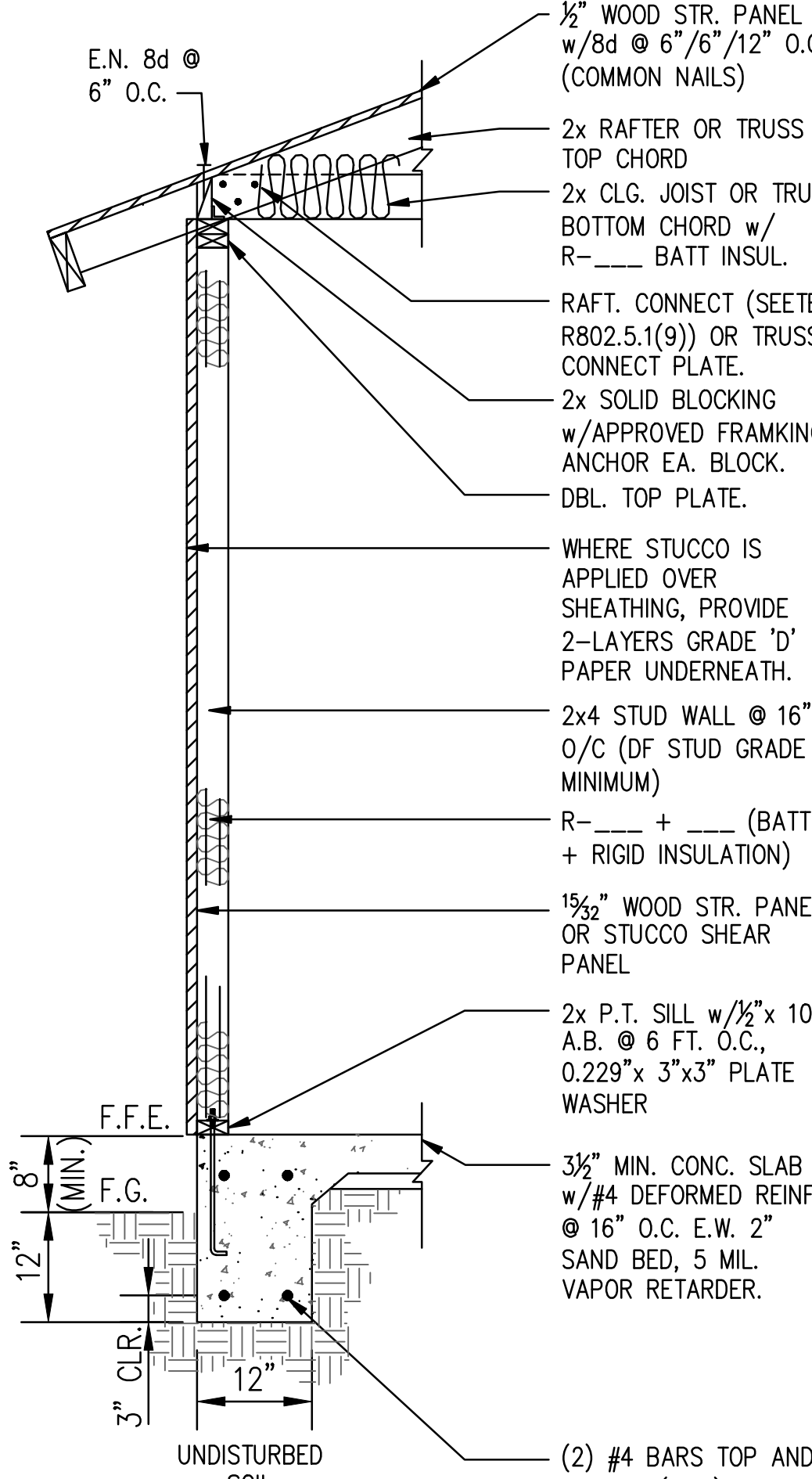
2 ELECTRICAL GUTTER
PP-1.1 Scale: NONE

DESCRIPTION	AMP / POLE	LOAD
FE PETRO 1.5HP, 7.9A PUMPS (AT FUEL STORAGE TANKS)	20/1	*200
ENCORE DISPENSERS	20/1	*400
TANK MONITORs	20/1	*200
CARD READERS	20/1	*1300
TANK MONITORs	20/1	*1300
EMERGENCY STOP	20/1	*150
CANOPY LIGHTS	20/21	*1500

3 EQUIPMENT LOADS
PP-1.1 Scale: NONE
* VERIFY W/MFGR'S SPECS



TYP. SECTION
PP-1.1 Scale: NONE



TYP. PERIMETER WALL
PP-1.1 Scale: NONE

GENERAL NOTE:
PRODUCT PIPING IS ILLUSTRATIVE, AND SPACED FOR CLARITY. MOST EFFICIENT PIPING ROUTE TO BE DETERMINED ON SITE.

- NOTES FROM SCOPE OF WORK ON PP-SITE.**
- PART VII. ELECTRICAL**
- A. Provide and install all electrical conduit and wire from fuel panel to fuel tanks and new dispensers
 - B. Provide and install emergency fuel shut off switch by front entrance and cashier station
 - C. Provide and install Esco 8 position intercom system for communication to fuel dispensers

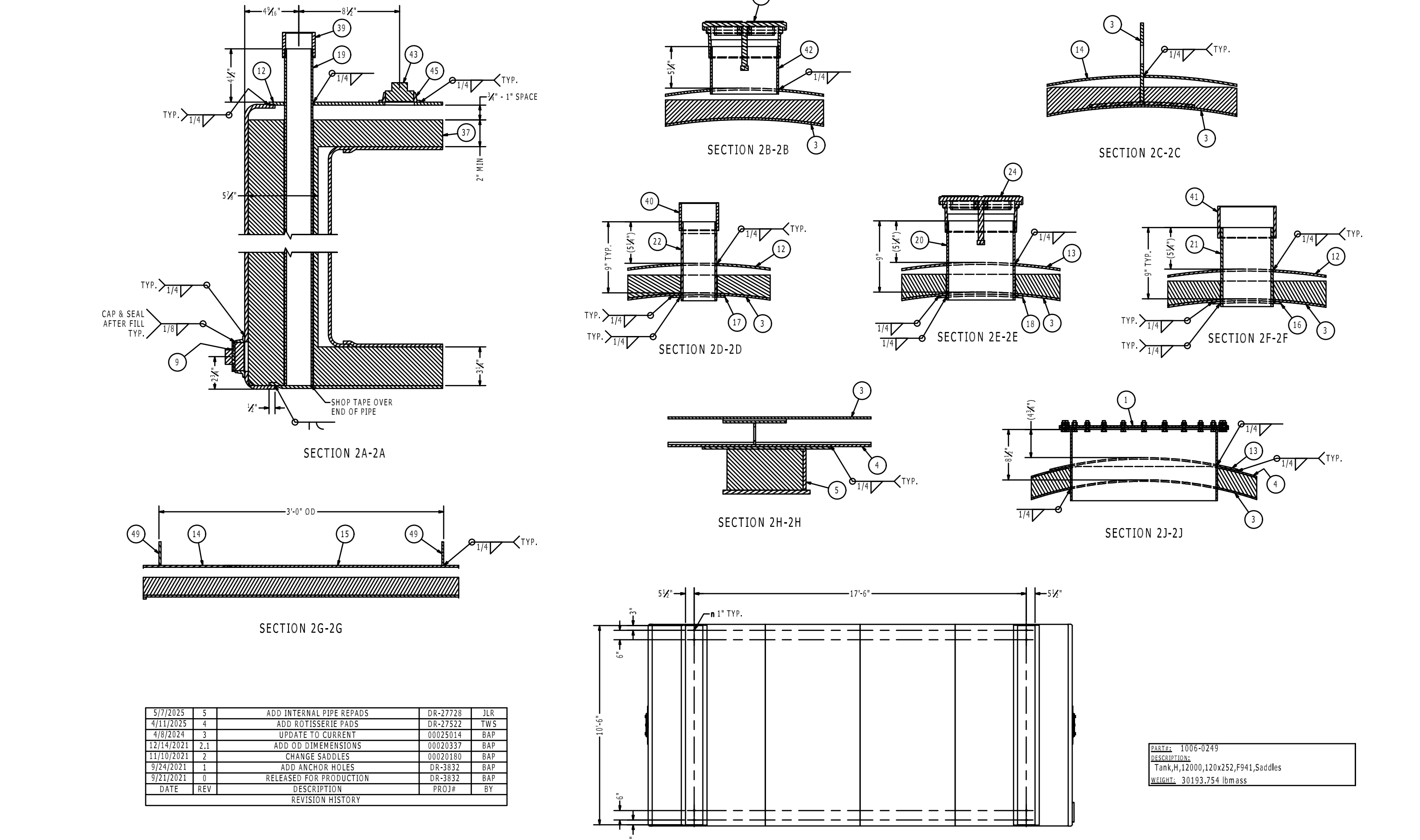
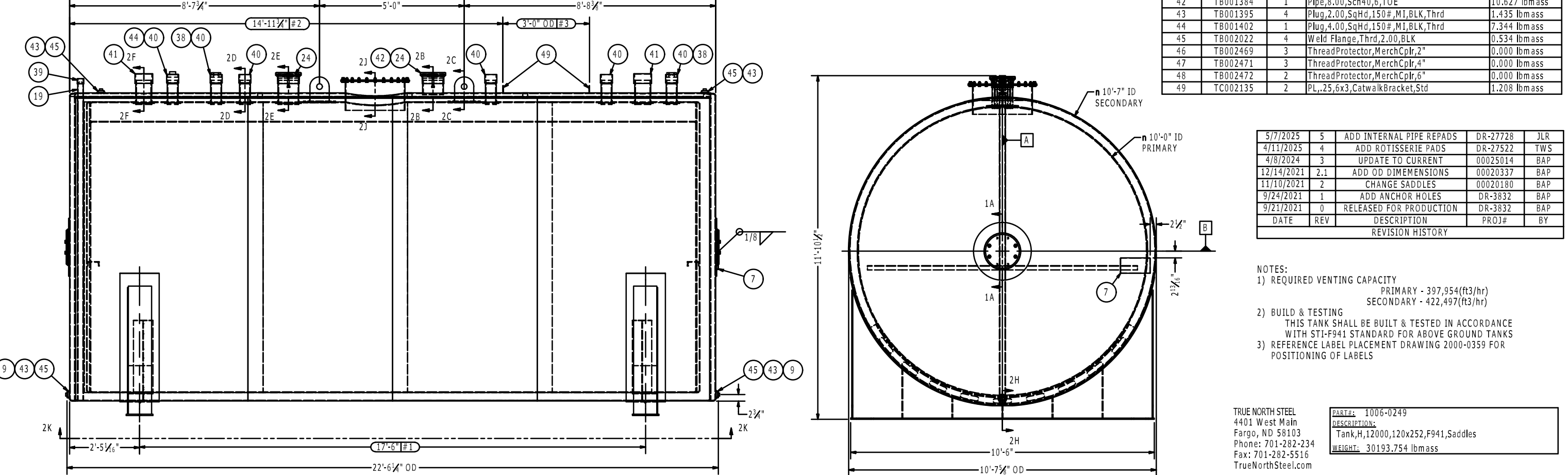
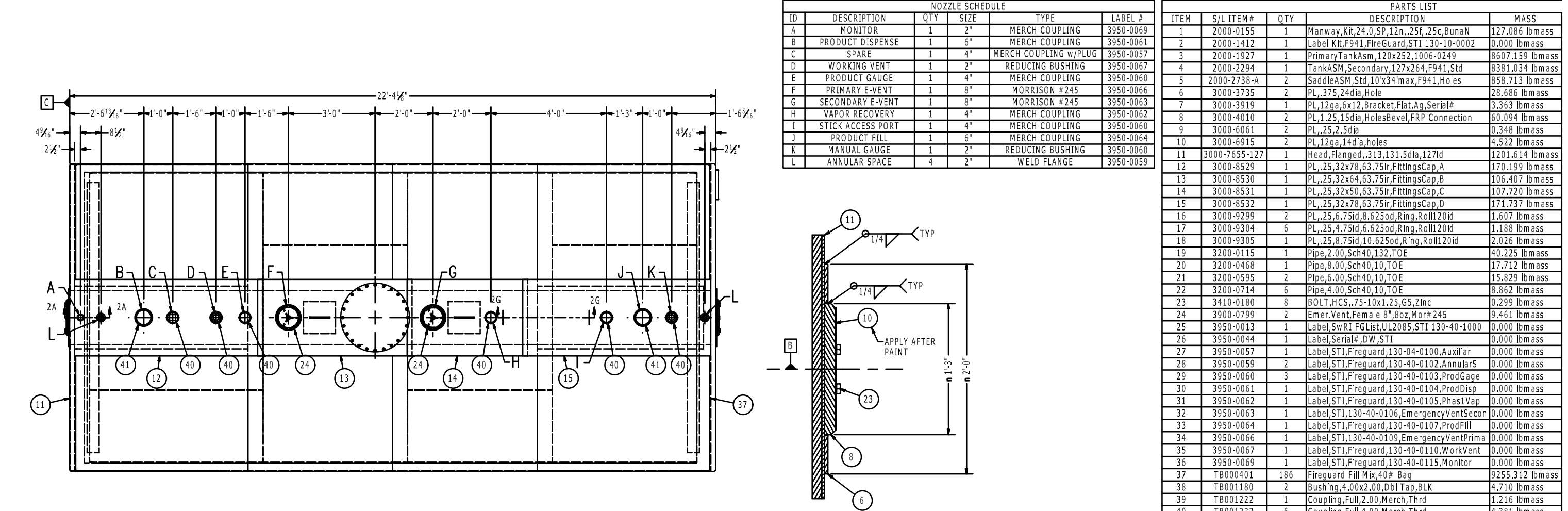
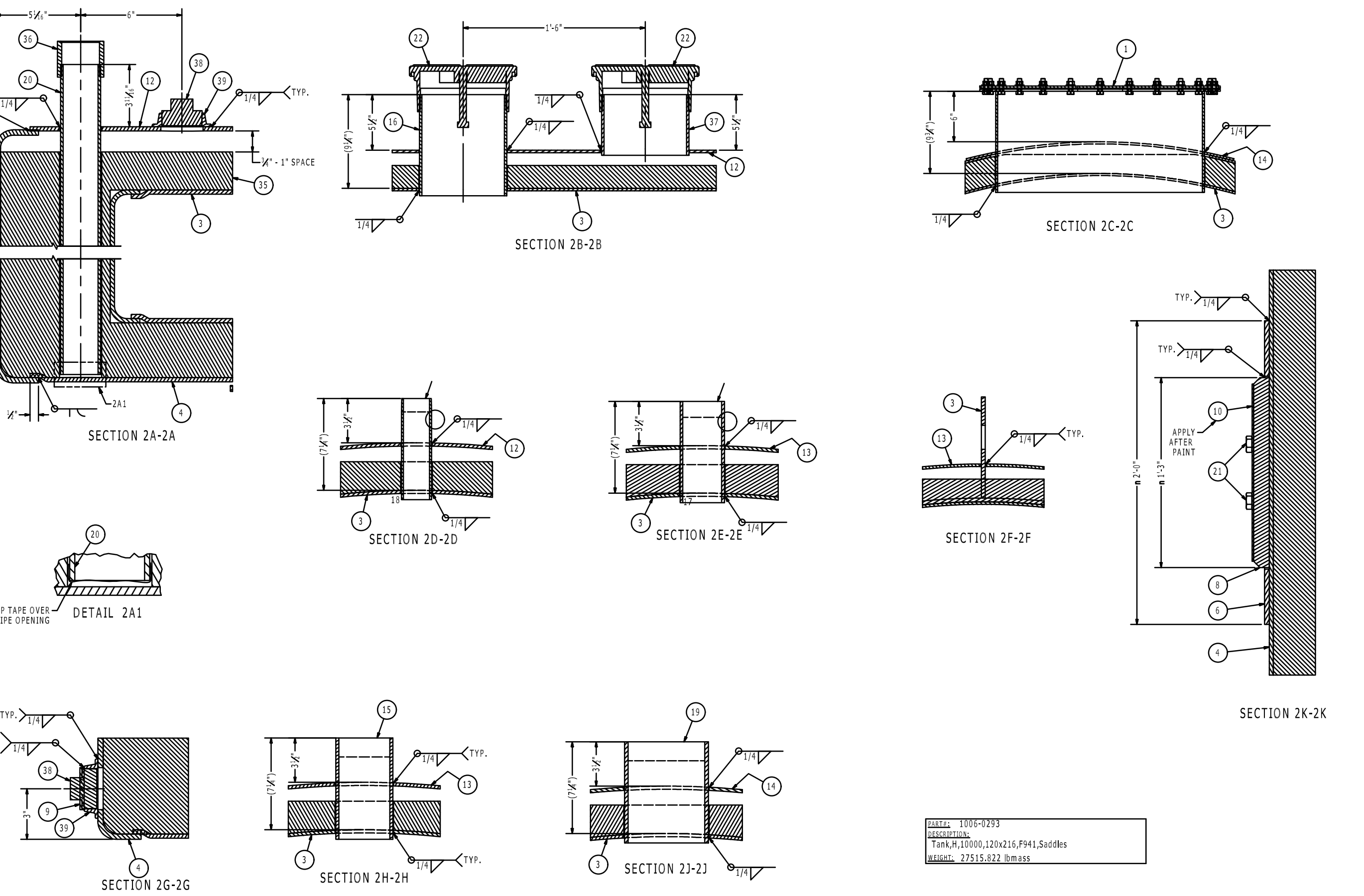
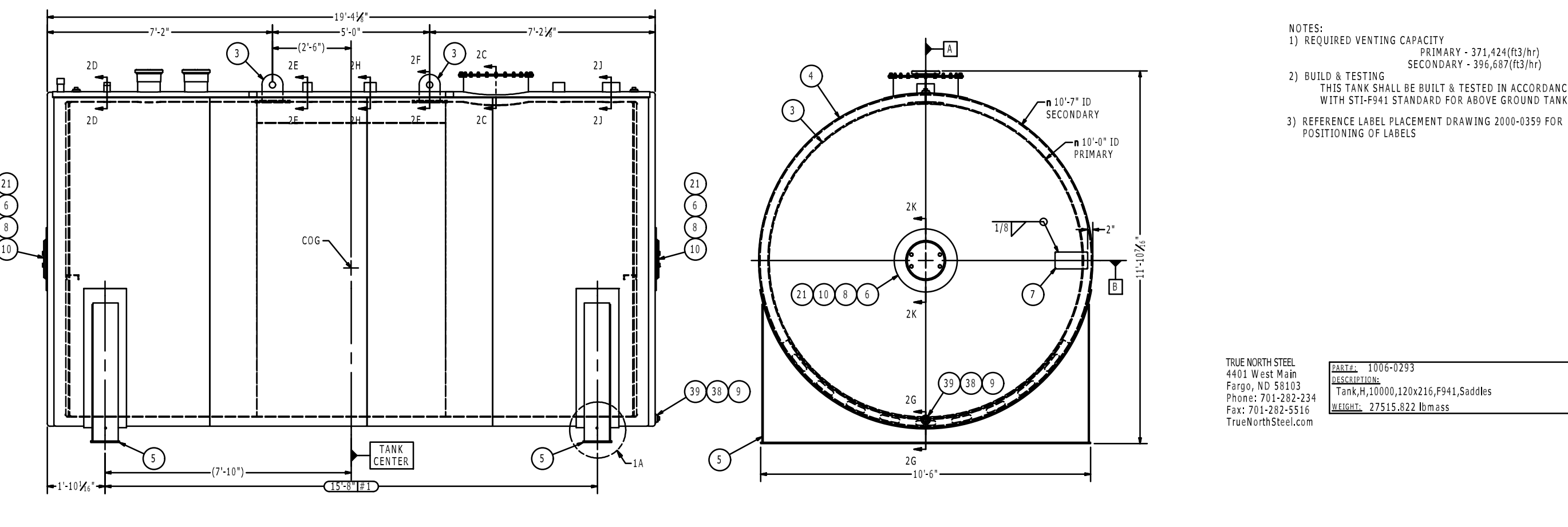
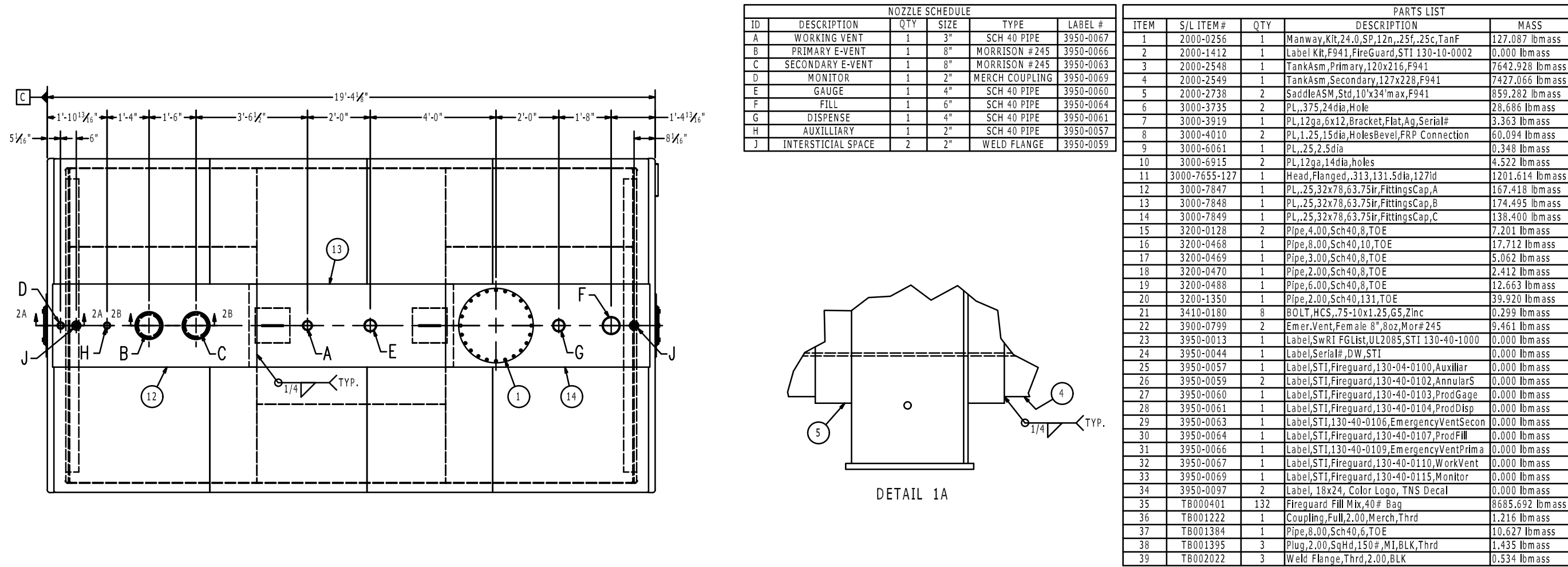
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Yavapai County APN: .302-07-267K

MARK	DATE	NOTES
14	Apr. 2026	50% Owner Requested Revision
15		This Sheet (PP-1.1) Added

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE: PETROLEUM CONDUIT PLAN
SHEET NUMBER: PP-1.1
5 of 17



These drawings, as provided by AzTech Petroleum, are not to be used for the design of petroleum product equipment under the terms and conditions of our signed contract. The use of these drawings shall be limited to the specific use for which prepared.

AzTech Petroleum Service, Inc.
4440 Able Drive
Kingman, Arizona 86401
Phone: 928.757.8787
Fax: 928.682.0028

Murphy Development Inc.
Murphy Development
1198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: .302-07-267K

DATE	REVISIONS
DATE	NOTES
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DATE	NOTES
DATE	NOTES
DATE	NOTES

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE: TRUE NORTH TANK DETAILS
SHEET NUMBER: P-1.2
6 of 17



SPECIFICATION DATA SHEET

LISTINGS AND APPROVALS

UL971 A – Outline of Investigation for Metallic Underground Piping (File No. MH45578)
CAN/ULC-S679-2017 – Standard for Metallic and Nonmetallic Underground Piping (File No. MH45578)
ANSI/CAN/ULC 1369-2020 – Standard for Aboveground Piping for Flammable and Combustible Liquids with a rating for marina use on fixed piers, semi-fixed piers and floating docks. (File No. MH45578)
APPROVED FUELS: General-use Fuels, Motor Vehicle (MV), High Blend (HB), Concentrated (CT), Aviation and Marine (A&M) Fuels, B100 and blends, DEF and Ammonia Hydroxide

DOUBLETRAC PIPING MATERIALS

PRIMARY PIPE: ASTM A240 S31603 / SS316L Series Stainless Steel
OUTER JACKET: Nonmetallic Nylon 12; Resistant to hydrocarbons, chemical and water exposure, UV stabilized for above ground and marina use
SECONDARY BARRIER: EFEP; (Ethylene Fluorinated Ethylene Propylene) Permeation resistance

DOUBLETRAC FITTING MATERIALS

MECHANICAL JOINT FITTING: ASTM A276 S31600 Stainless Steel Fitting
NOTE: Fitting to primary piping joint shall provide a metal-to-metal seal; no gaskets permitted
NOTE: All fittings meet Salt Spray Test requirements of ASTM B-117-90

PRESSURE RATINGS

	1"	1-1/2"	2"
PRIMARY MAX OPERATING PRESSURE:	125 PSIG	100 PSIG	75 PSIG
SECONDARY MAX OPERATING PRESSURE:	50 PSIG	50 PSIG	50 PSIG

TEMPERATURE LIMITS

Aboveground- Maximum Operating Temperature Range:	-22 deg. F to 122 deg. F
Underground- Maximum Operating Temperature Range:	-40 deg. F to 150 deg. F

OmegaFlex, Inc., 451 Creamery Way, Exton, PA, 19341-2509, 610-524-7272, Fax 610-524-6484

www.omegaflex.com

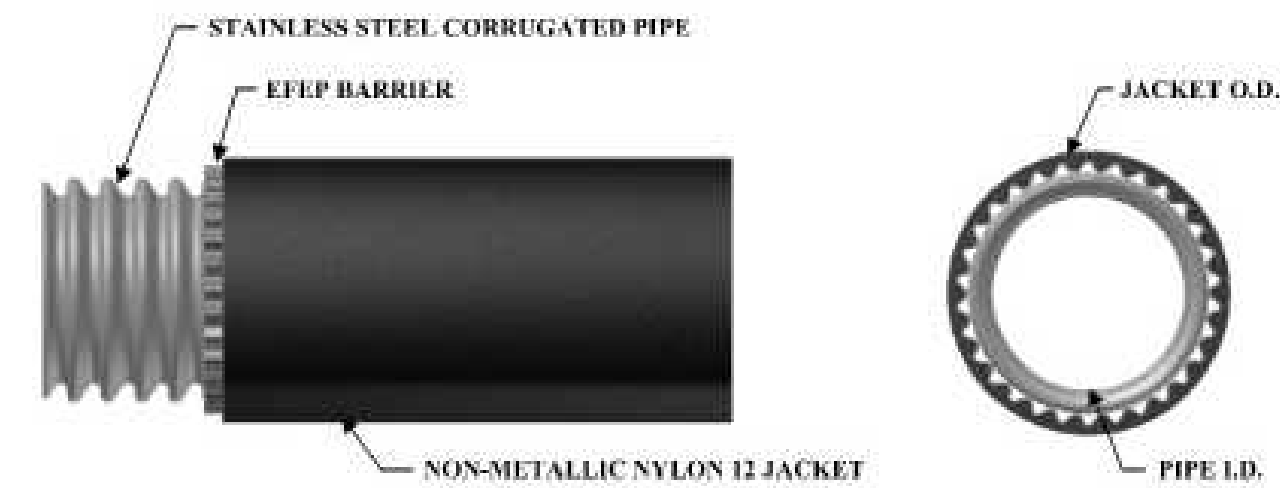
Page 1 of 3



DOUBLETRAC SUPPORT AND SPACING

DoubleTrac shall be supported from a permanent structure. Hangers and supports shall comply with MSS SP-58; *Pipe Hangers and Supports – Materials, Design, Manufacture, Selection, Application, and Installation*. Maximum support spacing is defined in table below.

DoubleTrac Pipe Size	1"	1-1/2"	2"
PART #	UGF-DTSC-16	UGF-DTSC-24	UGF-DTSC-32
CLAMP L.D.	1-1/2"	2-3/8"	2-7/8"
Maximum Horizontal Clamp Spacing (ft.)	6	8	10
Maximum Vertical Clamp Spacing (ft.)	15	15	15



PART #	UGF-FSP-16	UGF-FSP-24	UGF-FSP-32
SIZE (Inch)	1"	1-1/2"	2"
JACKET O.D. (Nom)	1.550"	2.300"	2.925"
INSIDE DIAMETER (Nom)	1.060"	1.525"	2.060"
MINIMUM BEND RADIUS	12"	24"	32"
WEIGHT / FT (lbs.)	0.75	1.50	2.00

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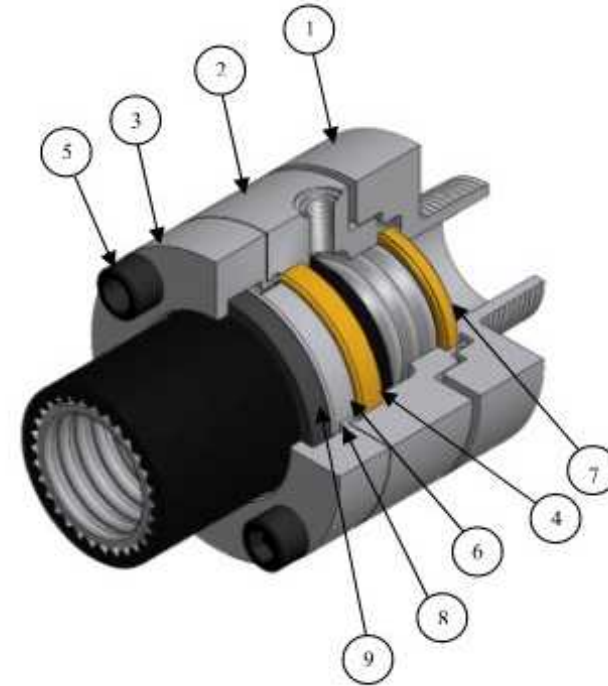
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Page 2 of 3



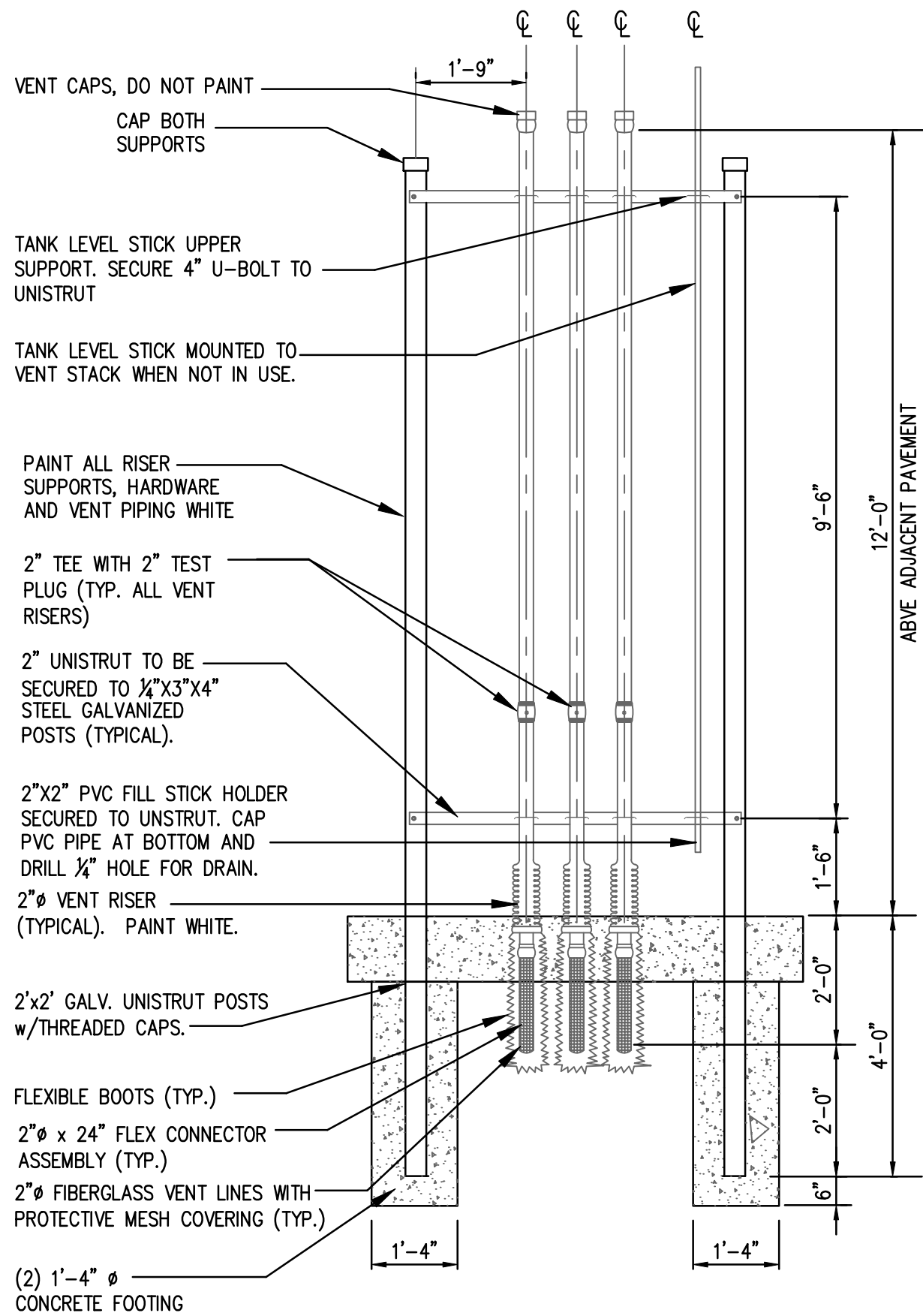
FITTING COMPONENT LISTING AND MATERIALS

#	DESCRIPTION
1	NPT ADAPTOR END
2	BRASS OR SST
3	MAIN BODY
4	BRASS OR SST
5	REAR BODY
6	BRASS OR SST
7	SPLIT RING SET
8	BRASS OR SST
9	RETAINING RING
10	SST
11	REAR SEAL
12	FKM FLUORO-ELASTOMER

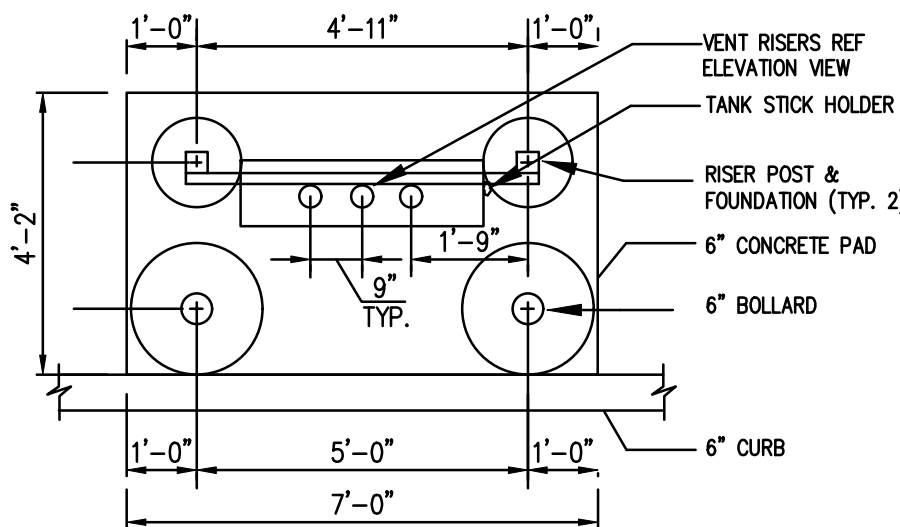


Vents for Underground Tanks.

- (a) Location and arrangement of vents for Category 1 or 2 flammable liquids, or Category 3 flammable liquids with a flashpoint below 100oF (37.8oC). Vent pipes from underground storage tanks storing Category 1 or 2 flammable liquids, or Category 3 flammable liquids with a flashpoint below 100oF (37.8oC) shall be so located that the discharge point is outside of buildings, higher than the fill pipe opening, and not less than 12 feet above the adjacent ground level. Vent pipes shall not be obstructed by devices that will cause excessive back pressure. Vent outlets shall be so located and directed that flammable vapors will not accumulate or travel to an unsafe location, enter building openings or be trapped under eaves or other obstructions. Tanks containing Category 1 flammable liquids shall be equipped with pressure and vacuum venting devices which shall be normally closed except when venting to pressure or vacuum conditions. Tanks storing Category 2 or 3 flammable liquids with a flashpoint below 73oF (22.8oC) shall be equipped with pressure-vacuum vents or with approved flame arresters.
- (b) Each tank shall be vented through piping adequate in size to prevent blow-back of vapor or liquid at the fill opening while tank is being filled. Vent pipes shall be not less than 1 1/4-inch nominal inside diameter. The vent size depends upon the filling or withdrawal rate whichever is larger, the vent line length and the tank design pressure. Vent piping sized in accordance with Table FL-18 will prevent the pressure in the tank from exceeding 2.5 psig.
- (c) Location and arrangement of vents for Category 3 flammable liquids with a flashpoint at or above 100oF (37.8oC), Category 4 flammable liquids and liquids with a flashpoint greater than 199.4oF (93oC) (formerly designated Class IIIB Combustible liquids). Vent pipes from tanks storing Category 3 flammable liquids with a flashpoint at or above 100oF (37.8oC), Category 4 flammable liquids and liquids with a flashpoint greater than 199.4oF (93oC) (formerly designated Class IIIB Combustible liquids) shall terminate outside of building and higher than the fill pipe opening. Vent outlets shall be above normal snow level. They may be fitted with return bends, course screens or other devices to minimize ingress of foreign material.
- (d) Vent piping shall be constructed in accordance with Article 146. Vent pipes shall be so laid as to drain toward the tank without sags or traps in which liquid can collect. They shall be located so that they will not be subjected to physical damage. The tank end of the vent pipe shall enter the tank through the top.
- (e) When tank vent piping is manifolded, pipe sizes shall be such as to discharge, within the pressure limitations of the system, the vapors they may be required to handle when manifolded tanks are filled simultaneously.
- (f) Vent piping for tanks storing Category 1 or 2 flammable liquids, or Category 3 flammable liquids with a flashpoint below 100oF (37.8oC) liquids shall not be manifolded with vent piping for tanks storing Category 3 flammable liquids with a flashpoint at or above 100oF (37.8oC) or Category 4 flammable liquids or liquids with a flashpoint greater than 199.4oF (93oC) (formerly designated Class IIIB Combustible liquids) unless positive means are provided to prevent the vapors from Category 1 or 2 flammable liquids, or Category 3 flammable liquids with a flashpoint below 100oF (37.8oC) from entering tanks storing Category 3 flammable liquids with a flashpoint at or above 100oF (37.8oC) or Category 4 flammable liquids or liquids with a flashpoint greater than 199.4oF (93oC) (formerly designated Class IIIB Combustible liquids), to prevent contamination and possible change in classification of the less volatile liquid



DO NOT MANFOLD VENTS, EACH TANK TO HAVE A DEDICATED VENT LINE



1 VENT STACK DIAGRAM

SCALE: NONE



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A Subsidiary of the International Code Council®

ICC-ES Evaluation Report ESR-4565

Issued December 2021

This report is subject to renewal December 2022.

DIVISION: 22 00 00—PLUMBING

Section: 22 63 00—Medical Gas Systems

DIVISION: 23 00 00—HEATING, VENTILATION AND AIR CONDITIONING

Section: 23 11 00—Facility Fuel Piping

DIVISION: 23 00 00—HEATING, VENTILATION AND AIR CONDITIONING

Section: 23 12 00—Natural Gas Piping

REPORT HOLDER:

OMEGAFLEX, INC.

EVALUATION SUBJECT:

MEDITRAC®, TRACPIPE® COUNTERSTRIKE® AND DOUBLETRAC® FLEXIBLE PIPING SYSTEMS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021 and 2018 International Building Code® (IBC)
- 2021 and 2018 International Plumbing Code® (IPC)
- 2021 and 2018 International Fire Code® (IFC)
- 2021 and 2018 International Mechanical Code® (IMC)
- 2021 and 2018 International Fuel Gas Code® (IFGC)
- 2021 and 2018 Uniform Mechanical Code (UMC)
- 2021 and 2018 Uniform Plumbing Code (UPC)

Compliance with the following code referenced standards:

- 2021 and 2018 Health Care Facilities Code® (NFPA 99)
- 2021 Flammable and Combustible Liquids Code® (NFPA 30)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-4565 LABC, LAPC and LAMC Supplement](#)

For evaluation for compliance with codes adopted by California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see [ESR-4565 CBC, CPC and CMC Supplement](#)

Property evaluated:

Structural—Seismic Performance

2.0 USES

The flexible piping systems described in this report are used for distribution of medical gas, fuel gas and combustible/flammable liquid, as applicable, in structures having a component importance factor, I_p , of 1.5 and located in Seismic Design Categories C, D, E and F when evaluated in accordance with Section 13.2.5 of ASCE/SEI 7-16.

3.0 DESCRIPTION

3.1 General:

The flexible piping systems are composed of corrugated metal tubing material with a protective jacket, tubing fittings and pipe supports (vertical and bracing). See Figure 1 for product depictions.

3.2 MedTrac®: MedTrac® is a flexible corrugated medical gas piping system consisting of a corrugated copper alloy tubing with external polymer jacket and axially swaged brass fittings equipped with a stainless-steel anti-temper sleeve and copper tube stub. The tubing comes in diameters ranging from 1/2-inch to 2-inch (12.7 to 51 mm).

3.3 TracPipe® CounterStrike®: TracPipe® CounterStrike® is a flexible fuel-gas piping system for natural or propane gas consisting of corrugated stainless-steel tubing with external polyethylene jacket, and proprietary mechanical fittings. The tubing comes in diameters ranging from 3/8-inch to 2-inches (9.5 to 51 mm). TracPipe® CounterStrike® is listed in PMG-1040.

3.4 DoubleTrac®: DoubleTrac® is a flexible combustible/flammable liquid piping system which consists of corrugated stainless steel - tubing with external polymer fuel-containment system, and stainless-steel fittings. The pipe comes in diameters ranging from 1-inch to 2 inches (25.4 to 51 mm).

3.5 Pipe Supports:

3.5.1 Vertical: The vertical pipe hangers and supports must comply with Section 308 of the IPC, Section 308 of the IMC, Section 407 of the IFGC, Section 313 of the UMC, Section 313 of the UPC, NFPA 99 and NFPA 30, as applicable. The IPC is referenced in Section 2901 of the

ESR-4565 1 Most Widely Accepted and Trusted

IBC. The IMC and IFGC is referenced in Section 2801 of the IBC. NFPA 99 is referenced in Sections 407.11, 422.6 and 425.1 of the IBC. NFPA 30 is referenced in Sections 415.6 and 507.8 of the IBC.

3.5.2 Seismic Bracing: Transverse and longitudinal seismic bracing systems must comply with the Bracing for Piping Systems. Seismic-Wind-Dynamic Design, Selection and Application (MSS SP-127-2014a) or as determined by a registered design professional and authority having jurisdiction in accordance with Section 308.2 of the IPC, Section 301.18 of the IMC, Section 301.12 of the IFGC and Section 1613 of the IBC.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The vertical and bracing support systems installed with the flexible piping systems must be designed by a registered design professional in accordance with Sections 13.6.7 and 13.6.7.1 of ASCE/SEI 7-16 and must comply with the provisions indicated in Table 1 of this report. The horizontal seismic design force determined in accordance with Section 13.3 of ASCE 7 may be reduced by 10 percent when using the seismic design parameters noted in Table 1 of this report.

4.2 Installation:

Installation of the flexible piping systems must be in accordance with this report, the approved plans and the manufacturer's published installation instructions. In the event of a conflict between this report, the approved plans and the manufacturer's published installation instructions, the more restrictive requirement governs. The maximum spacing of vertical supports must be determined in accordance with Section 3.5.1 of this report. The maximum spacing of transverse and longitudinal bracing must not exceed 40 feet (12.2 m) and must be determined by a registered design professional and approved by the authority having jurisdiction. The minimum clearance between OmegaFlex flexible piping systems and critical building systems (e.g. fire sprinkler systems) must be 15 inches (381 mm) for every 20 feet (6.1 m) of unbraced length. For bracing lengths between 20 to 40 feet (6.1 to 12.2 m), extrapolation must be used to determine the clearance distance. See Figures 2 and 3 for typical installation details.

4.3 Special Inspection:

Periodic special inspection is required in accordance with IBC Section 1705.13.6. The special inspector must conduct periodic inspections during installation of the flexible piping system connections, verification of components supplied by others and adherence to the manufacturer's published installation instructions.

5.0 CONDITIONS OF USE

The MedTrac®, TracPipe® CounterStrike® and DoubleTrac® flexible piping systems described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The flexible piping systems must be manufactured, - marked and installed in accordance with this report, the applicable listing standard(s), and the manufacturer's published installation instructions. A copy of the instructions must be available at the jobsite at all times during installation.

5.2 The vertical and bracing supports must comply with Sections 3.5 and 4.1 of this evaluation report.

5.3 The scope of this evaluation report is for the installation of OmegaFlex flexible piping systems in Seismic Design Categories C, D, E and F and structures assigned an I_p of 1.5.

5.4 The MedTrac®, TracPipe® CounterStrike® and DoubleTrac® flexible piping systems must comply with the applicable provisions of the NFPA 99, UPC and IPC. The TracPipe® CounterStrike® flexible piping system must comply with the applicable provisions of the IMC, IFG, UPC and UMC. The DoubleTrac® must comply with applicable provisions of IFC, IMC, UMC and NFPA 30.

5.5 Special inspection must be conducted in accordance with Section 4.3.

5.6 The MedTrac®, TracPipe® CounterStrike® and DoubleTrac® flexible piping systems are manufactured under an approved quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with ICC-ES Acceptance Criteria for Seismic Certification by Shake-Table Testing of Nonstructural Components (AC156), approved October 2010 (editorially revised December 2020).

6.2 Analysis of shake table test data.

6.3 Quality control documentation.

7.0 IDENTIFICATION

7.1 Product labeling shall include, the name of the report holder or listee, and the ICC-ES mark of conformity. The listing or evaluation report number (ICC-ES ESR-4565) may be used in lieu of the mark of conformity. The MedTrac®, TracPipe® CounterStrike® and DoubleTrac® flexible piping systems described in this report must be - marked with the model number and the company name and the ICC-ES evaluation report number (ESR-4565). The manufacturer may include the following optional marking: Seismically Qualified per ICC-ES AC156 Testing Protocol.

7.2 The report holder's contact information is the following:

OMEGAFLEX, INC.
213 COURT STREET SUITE 1001
MIDDLETOWN, CONNECTICUT 06457
(860) 704-6820
www.omegaflex.com

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any listing or other matter in this report, or as to any product covered by the report.



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DATE	REVISIONS

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE: DIESEL DISPENSER PIPING
SHEET NUMBER: P-1.4
8 of 17

Table 1.10 Trenching and Backfilling(to be used with Figure 1.1)

Pipe Size		Surface Condition	Min. Burial Depth		Min. Select Backfill	
			A		B	
in	mm		in	mm	in	mm
2	50	Unpaved	18	432	12	305
		Paved, min. 4" (100 mm) asphalt	12	305	8	203
		Paved, min. 4" (100 mm) concrete	9	229	5	127
		Paved, min. 6" (150 mm) concrete	9	229	3	76
3	80	Unpaved	20	508	14	256
		Paved, min. 4" (100 mm) asphalt	13	330	9	229
		Paved, min. 4" (100 mm) concrete	11	279	7	178
		Paved, min. 6" (150 mm) concrete	10	254	4	102
4	100	Unpaved	20	508	14	356
		Paved, min. 4" (100 mm) asphalt	14	356	10	254
		Paved, min. 4" (100 mm) concrete	11	279	7	178
		Paved, min. 6" (150 mm) concrete	10	254	4	102
6	150	Unpaved	36	914	14	356
		Paved, min. 4" (100 mm) asphalt	24	610	10	254
		Paved, min. 4" (100 mm) concrete	20	508	7	178
		Paved, min. 6" (150 mm) concrete	16	406	4	102

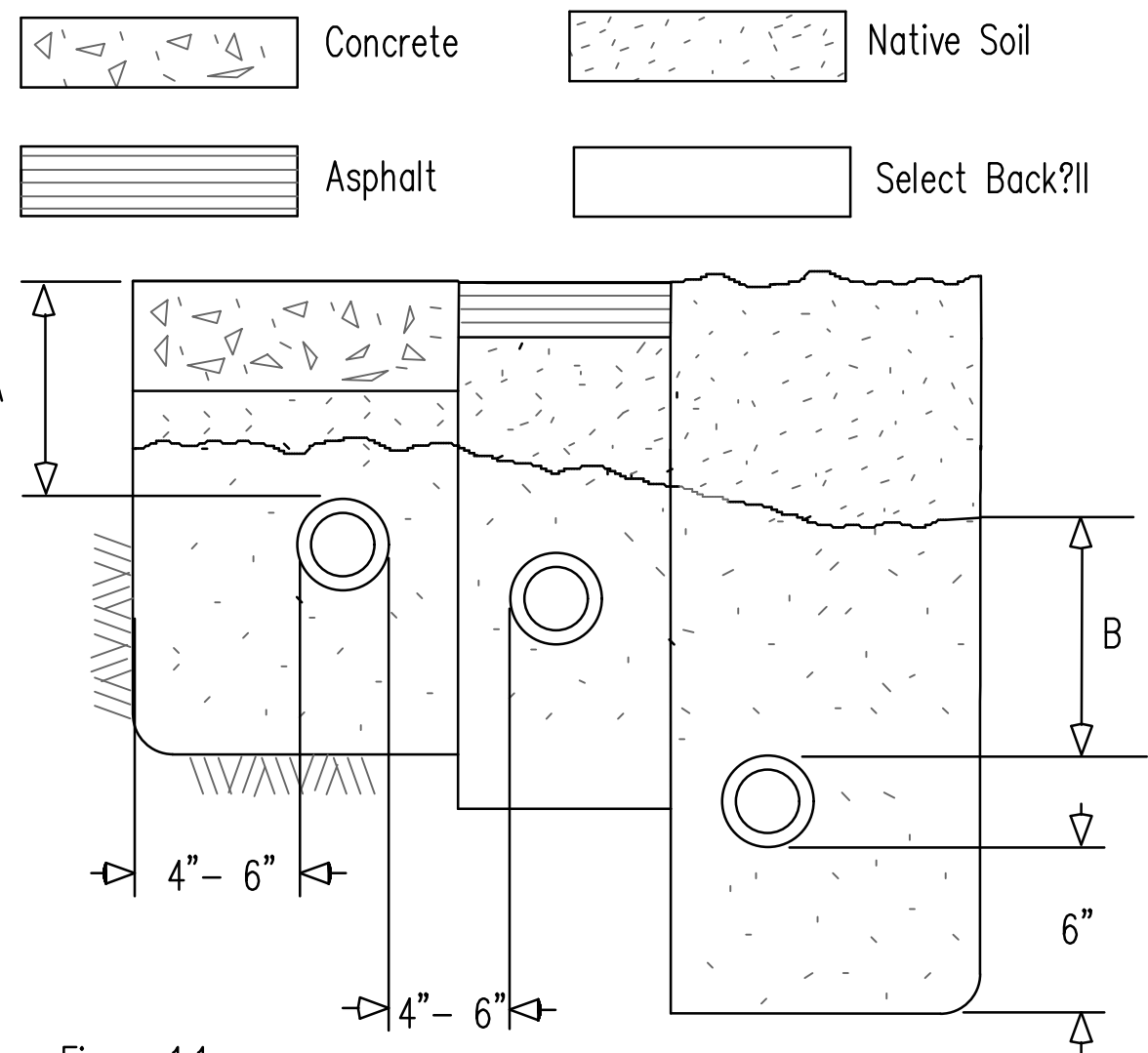
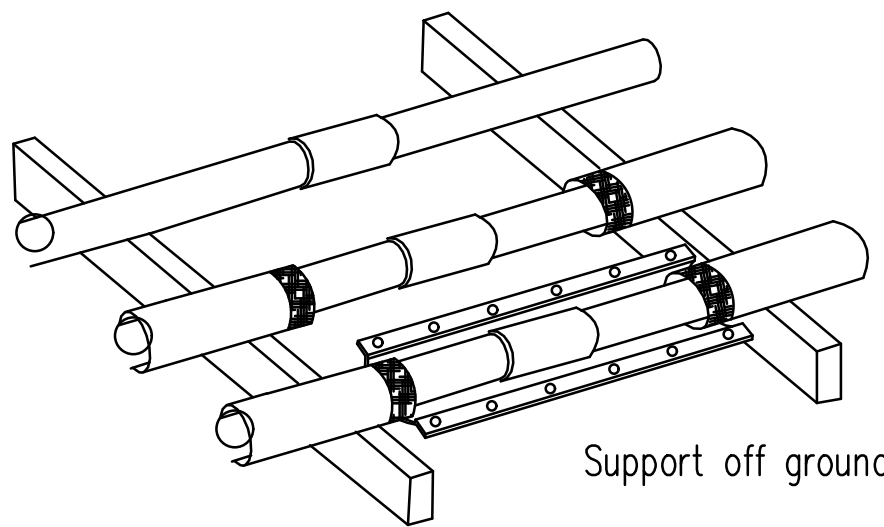


Figure 1.1
Recommended Trenching, Bedding and Backfill(see Table 1.10)
During layout, bonding, and inspection, support pipe off of the ground (e.g., 2"x4") to keep joints clean and bedding out of pipe

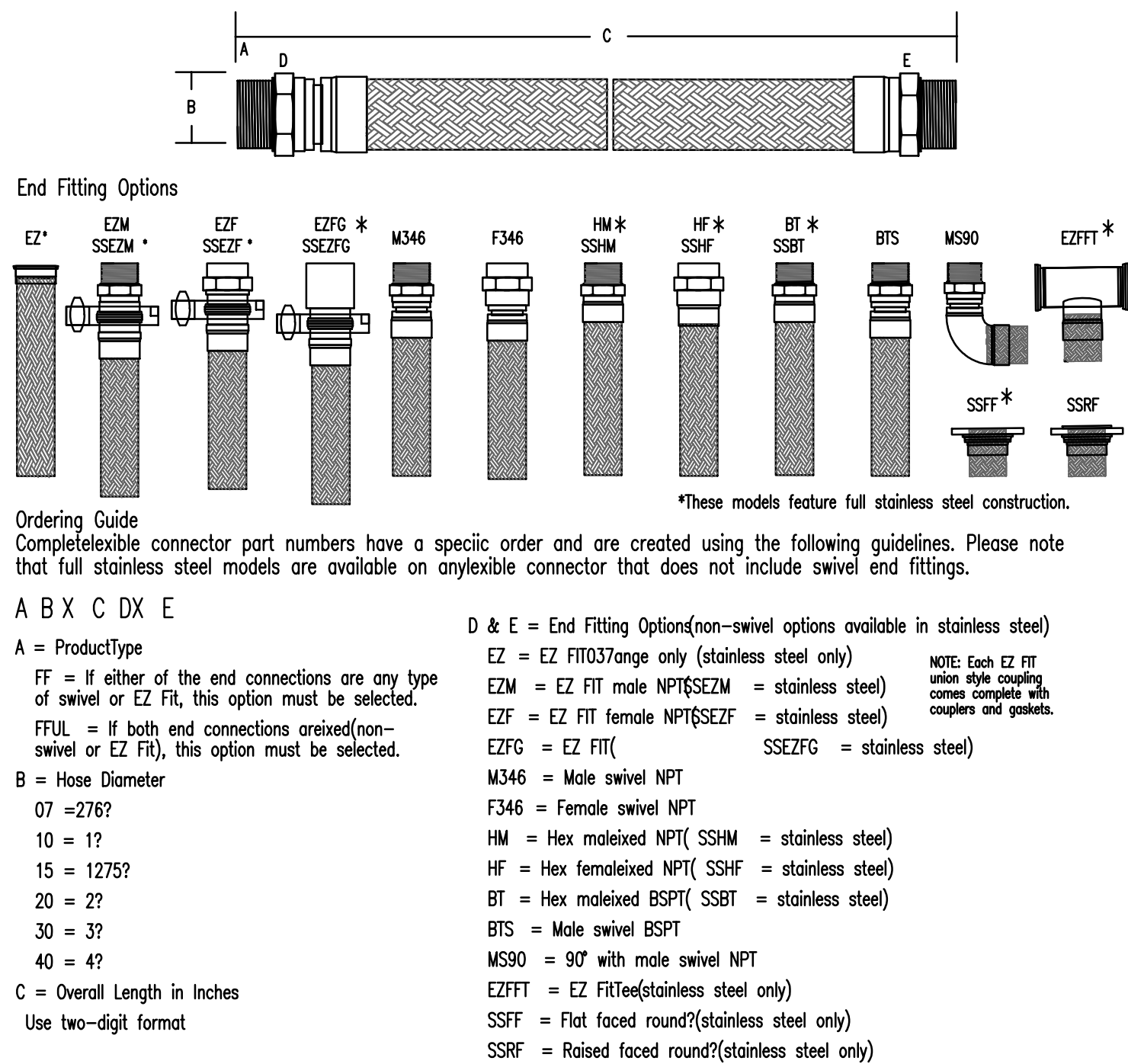


5 RED THREAD IIA – DUALOY 3000/L – DUALOY 3000/LCX
Fiberglass Primary, Secondary containment, and Coaxial piping for Underground Fuel Installations

Nominal Pipe Size (in)	Length A (mm)	OD B (in)	Insertion Bell X ₁ X ₂ (in) (in)	Wt (in)
2	50	14.00	4.00 8 ²	1.50 1.3
3	80	14.00	6.00 8	1.50 1.7
4	100	14.00	7.00 8	1.50 2.0

- 1) Repair coupling inside diameters match pipe outside diameters of the same nominal pipe size
- 2) Number of bolt holes.

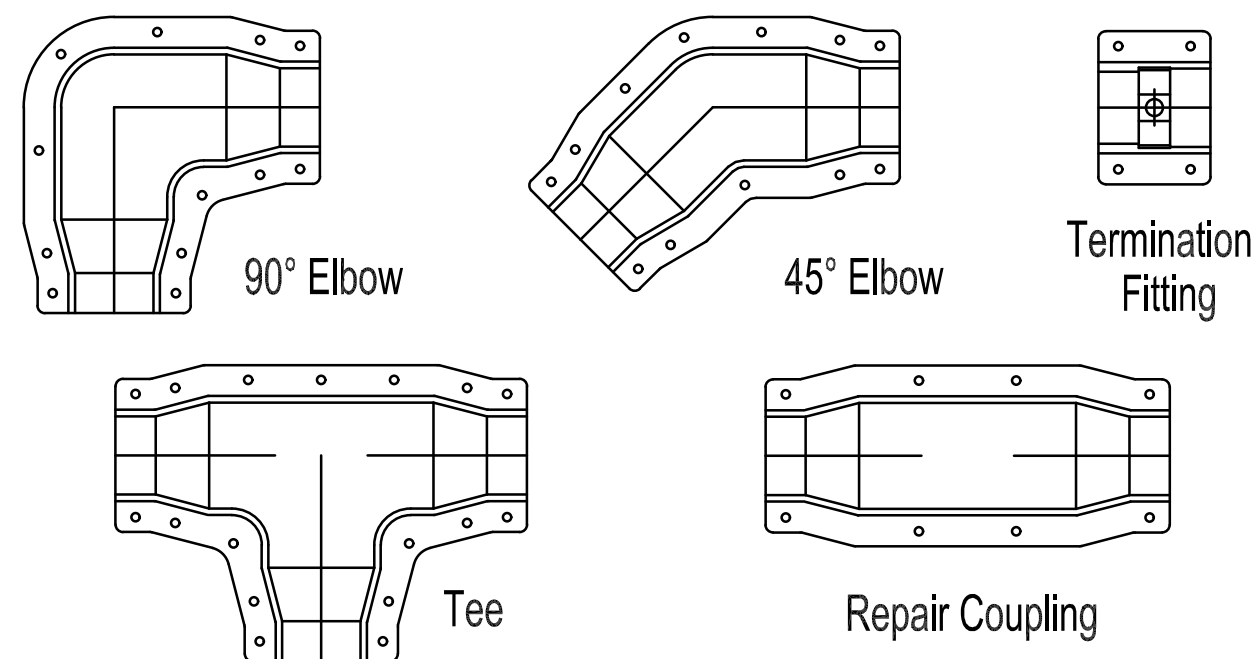
6 REPAIR COUPLINGS (CLAMSHELL TERMINATION FITTING sim.)
N.T.S.



1 FRANKLIN FUELING "FLEX-ING" FLEXIBLE CONNECTORS
PP-1.4

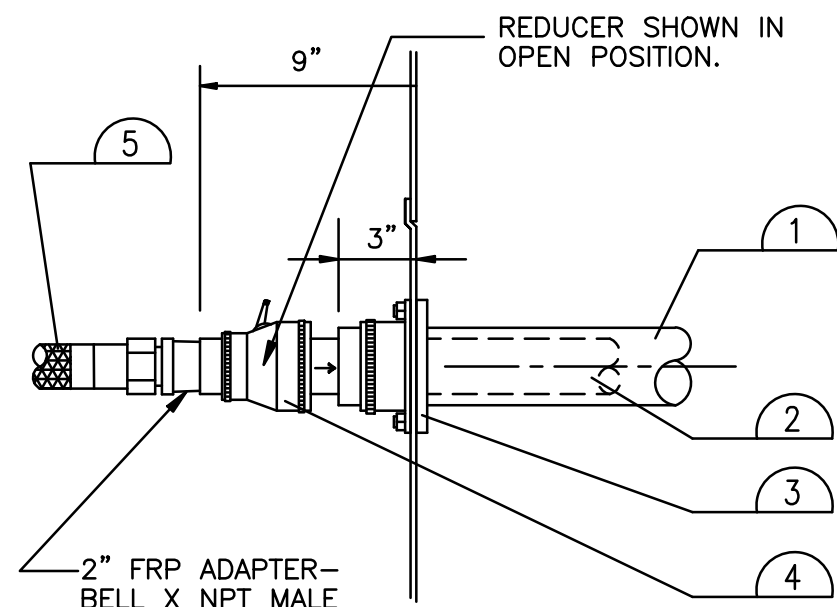
UL 2039 listed for above and below ground installation for use with gasoline, gas alcohol blends (up to E85), diesel, and Biodiesel.

- Meets USA NFPA 30-A fire code requirements.
- Outer shell: 304 stainless steel
- Inner core: 321 stainless steel
- End fittings: Nickel plated steel or stainless steel.
- 100% pressure tested to 100 PSI to assure quality



Containment fittings are then joined with bolts. Insert and begin threading each bolt into the pre-inserted nut by hand. A nut driver or powered device can be used to assemble the bolts. If a power tool is used to tighten the bolts, confirm tightness of each bolt with a nut driver. Note: Tighten the inner radius bolts first.

2 CONTAINMENT FITTINGS
PP-1.4



7 PRODUCT PIPING/ SUMP PENETRATION N.T.S.
PP-1.4

FIBERGLASS PIPE AND FITTINGS TO BE AMERON OR A.O. SMITH RED THREAD IIA. FITTINGS AND PIPING MAY NOT BE MIXED. USE ALCOHOL COMPATIBLE ADHESIVE.

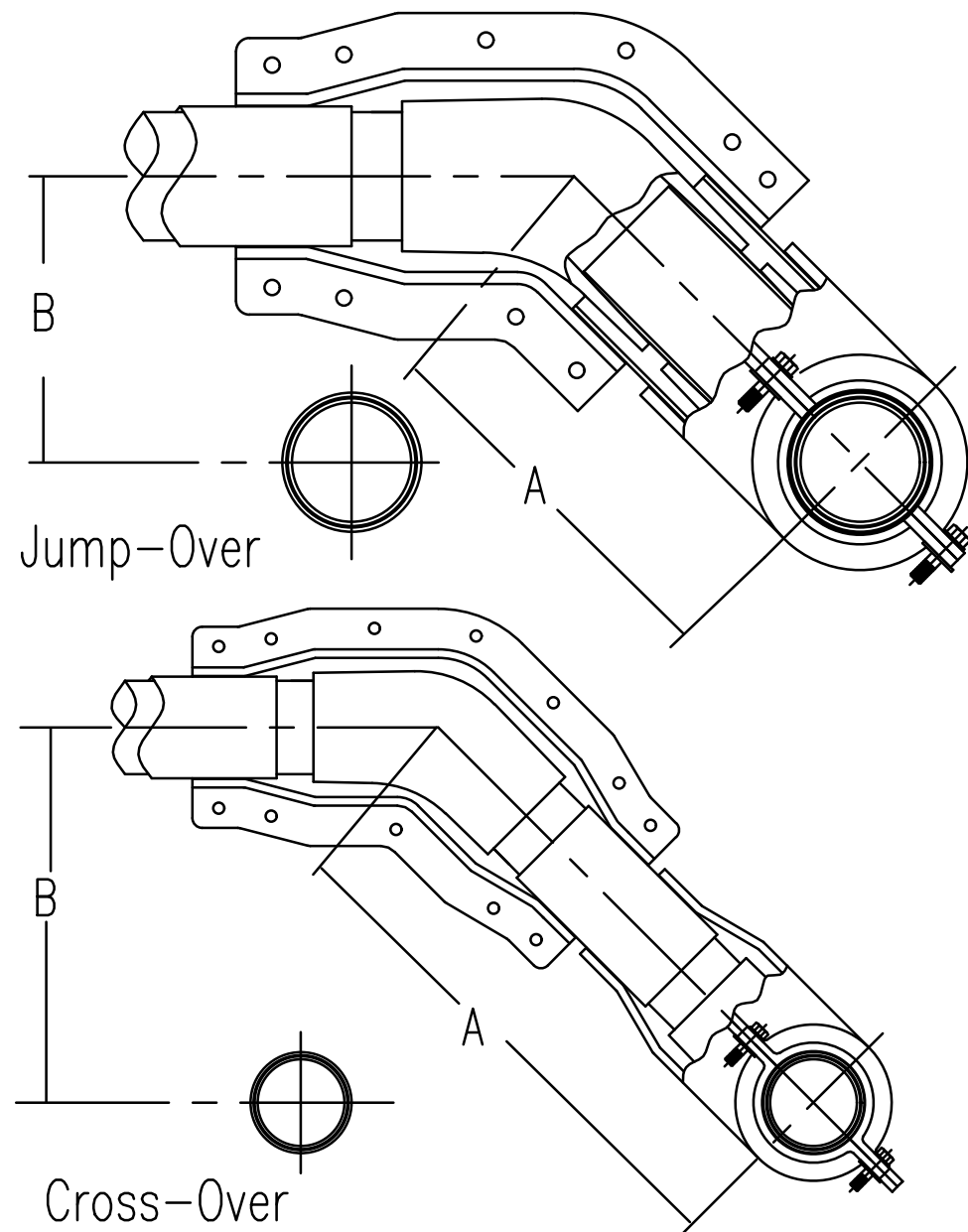
- 3" FIBERGLASS PIPE (FRP)
 - ALL PENETRATIONS MUST BE PERPENDICULAR TO CONTAINMENT SUMPS.
 - PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON A 6" COMPACTED BED OF PEA GRAVEL. NO PIPING SHALL BE SUPPORTED BY BLOCKS, PLANKS, OR OTHER DEBRIS. MAINTAIN 7" MINIMUM COVER BETWEEN SLAB BOTTOM AND TOP OF FRP PIPE/FITTINGS (WHERE OCCURS). PIPE STANDARD FALL TO BE 1/8" PER FOOT. VAPOR LINE FALL TO BE VERIFIED AFTER PIPING IS LAID ON GRAVEL BEDDING.
 - FIBERGLASS PIPE AND FITTINGS TO BE AMERON OR A.O. SMITH RED THREAD IIA. FITTINGS AND PIPING MAY NOT BE MIXED. USE ALCOHOL COMPATIBLE ADHESIVE.
- 2" FIBERGLASS PIPE (FRP)
 - APT 3" ENTRY BOOT.
 - BLUE LINE 3" x 2" TEST BOOTS w/TEST PORT, ENTRY BOOT
 - MINIMUM BEND RADIUS 4".
- FLEXING FLEX CONN. 2"x24" M&M SWIVEL END.

Jump-overs and Crossovers

Assemblies for crossing lines can be made in one of two ways. For lines where the tee and 45° elbow need to be very close (a jump-over), the clamshell fittings can be cut at the beginning of the tapered portion on the branch of the tee and one leg of the elbow. A piece of single wall pipe of then extlarger size.

Lines where there is sufficient distance between the tee and 45° elbow to allow for the full clamshell fittings, the crossover can be made by simply bonding the fittings and clamshells to

Jump-over assembly made with next larger size single-wall containment pipe and clamshell fittings cut at start of taper to allow minimum length.

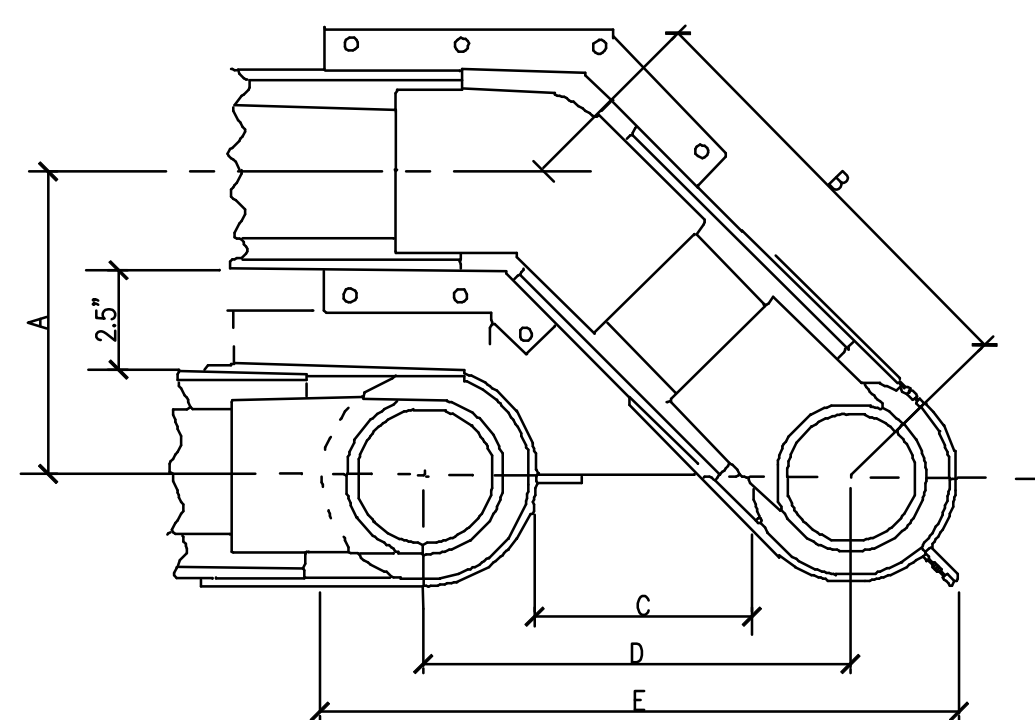


Cross-over assembly made with LCX pipe and full clamshell fittings for installations where longer length is allowed or needed

Pipe Size		Minimum Length()			
		Jump-Over		Cross-Over	
in	mm	in	mm	in	mm
2	50	7 1/2	190	12 5/8	320
3	80	9 3/4	250	14 3/4	375
4	100	10 1/4	260	16 1/2	420

Pipe Size		Minimum Length()			
		Jump-Over		Cross-Over	
in	mm	in	mm	in	mm
2	50	5 1/4	135	9	227
3	80	6 7/8	175	10 1/2	265
4	100	4 1/4	185	11 5/8	295

3 JUMP OVERS AND CROSS OVERS
PP-1.4



NOTE: The 2.5" (64 mm) critical dimension must be inspected in the field
The procedure for making a crossover are identical to those used for making Red Thread IIA with the exception that the legs of the containment fittings do not need to be shortened to accommodate putting the primary fittings in close proximity.

During layout, bonding, and inspection, support pipe off of the ground (e.g., 2"x4") to keep joints clean and bedding out of pipe

NOTE: Use self tapping screws or match drill holes (5/16") at a distance of 3/4" (19mm) from the cut end of the 45° elbow and the tee. This is to assure a compressive force is applied near the end of the containment fitting adhesive bond line.

Fittings	Containment Pipe Size		
	3" max. in.	4" max. in.	6" max. in.
Remove from 45° elbow	1.25	2.00	1.25
Remove from side run of tee	1.50	1.63	1.00
Product nipple size (1)	2 x 8	3 x 8	4 x 10
Containment nipple size	3 x 6	4 x 6	6 x 8

Containment Pipe Inches	A in.	B in.	C in.	D in.	E in.
3	7.50	10.60	6.50	10.00	14.50
4	8.50	12.00	7.50	12.00	16.50
6	10.65	15.00	8.00	14.75	22.00

4 SUMP CONNECTIONS
PP-1.4

GENERAL NOV PIPING NOTES

NOV 'DUALOY PIPING' INSTALLED PER MANUFACTURERS INSTRUCTIONS.

Refer to NOV Fiber Glass Systems
UL/ULCListed Red Thread IIA
Dualoy 3000L and Dualoy 3000/LCX
Piping Systems
General Installation Instructions

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Kingman, Arizona 86401
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Fax: 928.682.0828

Drawings For –
Murphy Development Inc.
Murphy Development
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Yavapai County APN: .302-07-267K

MARK	DATE	NOTES

DATE:	APRIL 16, 2026
SCALE:	AS NOTED
DRAWN:	SRT
CHECKED:	PT
SHEET TITLE:	NOV PIPING NOTES & DETAILS
SHEET NUMBER:	PP-1.4
9 of 17	

GENERAL NOTE:
ALL PETROLEUM PRODUCT EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS. REFER TO MANUFACTUREERS/PROVIDORS INSTALLATION MANUALS FOR ALL FOUNDATIONS AND SUPPORTS, CONNECTIONS, PRODUCT DETAILS, WIRING AND SPECIFICATIONS.

NOTE:
2-SETS OF 18 GAUGE WIRE (UNSHIELDED), 1-EACH FOR CRIND AND PUMP. PULL WITH INTERCOM CABLE IN CONDUIT No. 3.

NOTE:
PROVIDE 12 GAUGE/ 120 VOLT WIRE FOR TURBIN HOOKS. 2-WIRES FOR BLEND MPD's AND 2-WIRES FOR DIESEL. PULL WITH POWER CIRCUIT IN CONDUIT.

NOTE:
INTERCOM WIRE SHALL BE 4-CONDUCTOR WIRE.

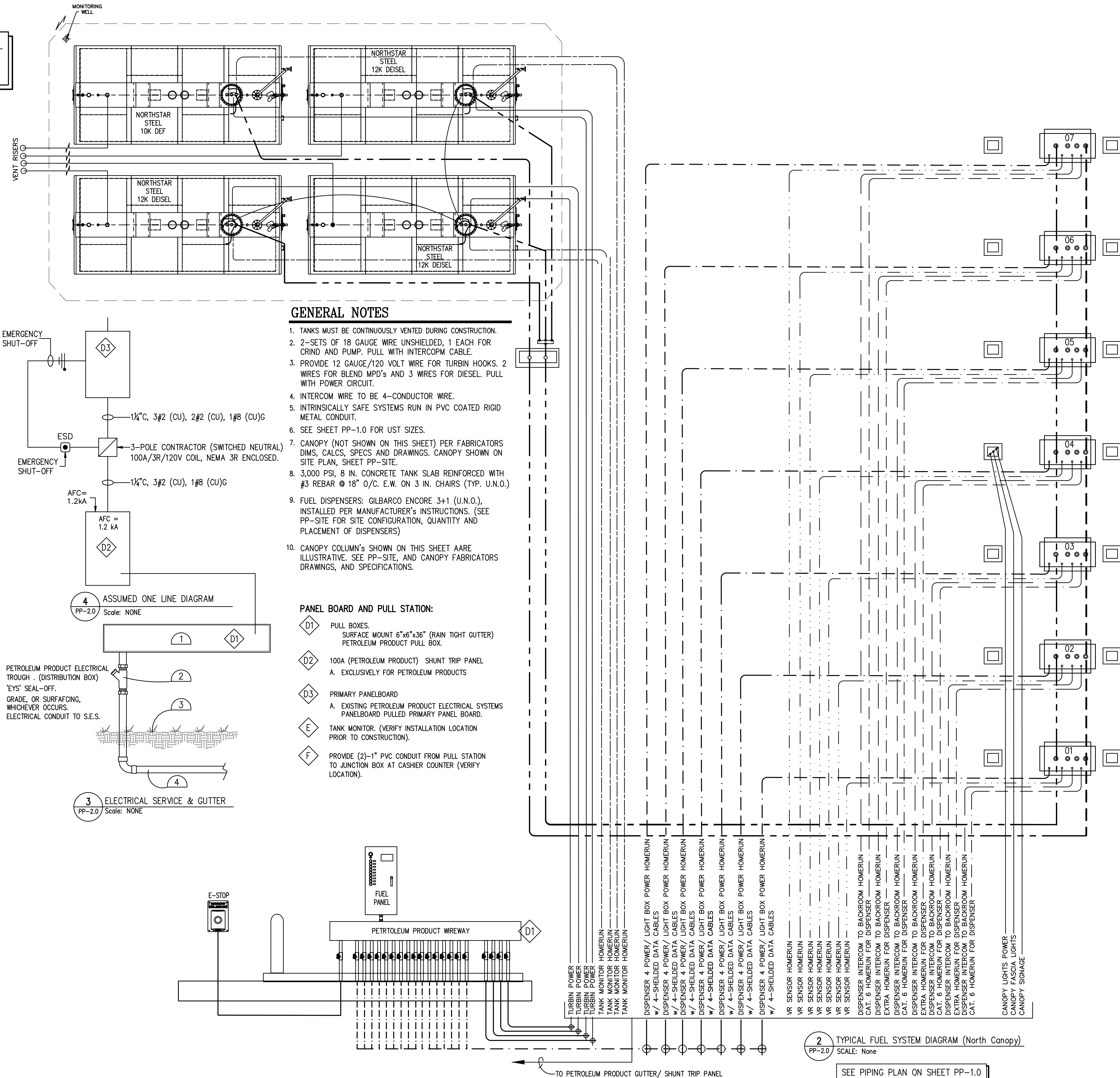
DESCRIPTION	AMP/POLE	LOAD
FE PETRO 1.5HP, 7-/9A PUMPS (AT FUEL STORAGE TANKS)	20/1	*200
GILBARCO DISPENSER's	20/1	*200
TANK MONITORs	20/1	*200
CARD READERs	20/1	*1300
TANK MONITORs	20/1	*1300
EMERGENCY STOP	20/1	*150

5 EQUIPMENT LOADS
PP-2.0 * VERIFY w/MFGR's SPECS

LEGEND

P - PREMIUM UNLEADED
R - REGULAR UNLEADED
D - DIESEL
F = FILL
V = TANK VENT
T = TANK LEVELING MONITOR

A = ANNULAR SPACE
E = EXTRACTOR
P = PLLD
C = CONDUIT



2 TYPICAL FUEL SYSTEM DIAGRAM (North Canopy)
PP-2.0 SCALE: None

SEE PIPING PLAN ON SHEET PP-1.0

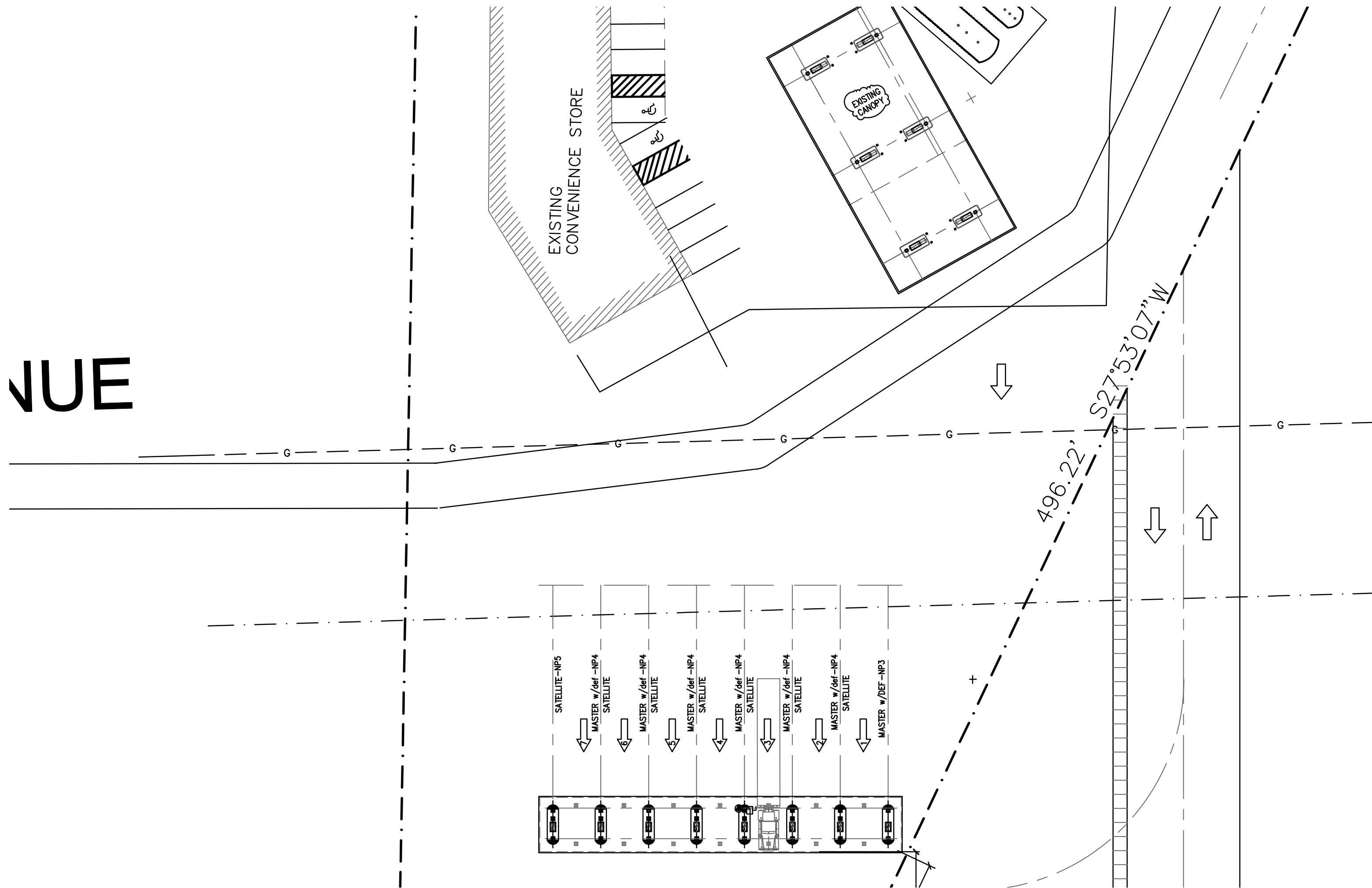
These drawings, as provided by AzTech Petroleum, are the property of AzTech Petroleum and shall remain the property of AzTech Petroleum under the terms and conditions of our signed contract. The use of these drawings shall be restricted to the project for which prepared.

AzTech Petroleum Service, Inc.
4440 Able Drive
Kingman, Arizona 86401
Phone: 928.757.8787
Fax: 928.682.0828

Drawings For -
Murphy Development Inc.
Murphy Development
1198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: .302-07-267k

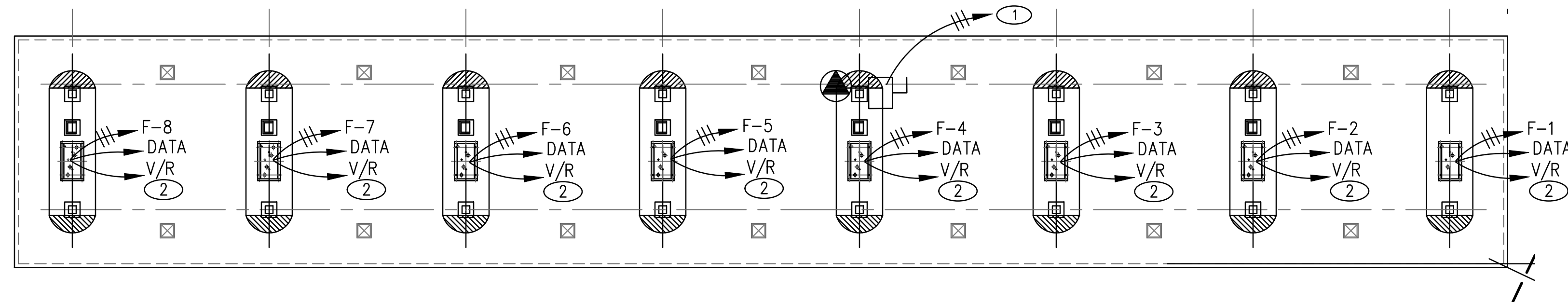
MARK	DATE	NOTES

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE: TYPICAL FUEL SYSTEM ILLUSTRATION
SHEET NUMBER: PP-2.0
10 of 17

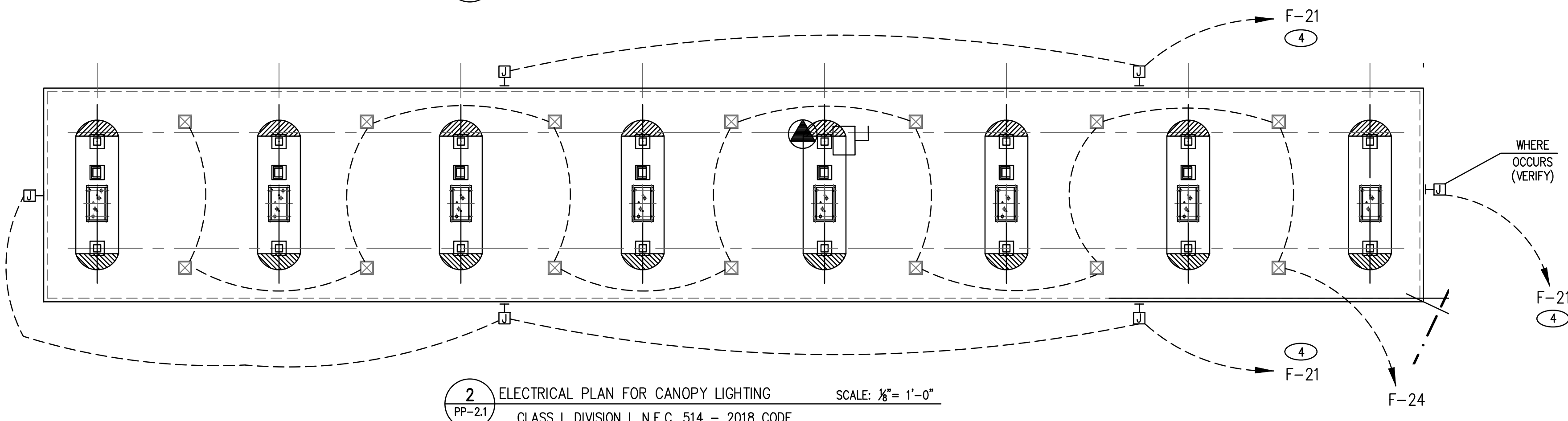


(38) CONDUITS (VERIFY) TO DISPENSERS ISLAND'S,
FUEL TANKS AND CANOPY (INCLUDES 4-SPARES).
[VERIFY LOCATION OF FUEL EQUIPMENT LOCATION]

1 MURPHY CONVENIENCE STORE & FUEL
PP-2.0 SCALE: 1"= 30.0'



2 ELECTRICAL PLAN FOR DISPENSERS & UST's
PP-2.1 SCALE: 1/8"= 1'-0"
CLASS I, DIVISION I, N.E.C. 514 - 2018 CODE

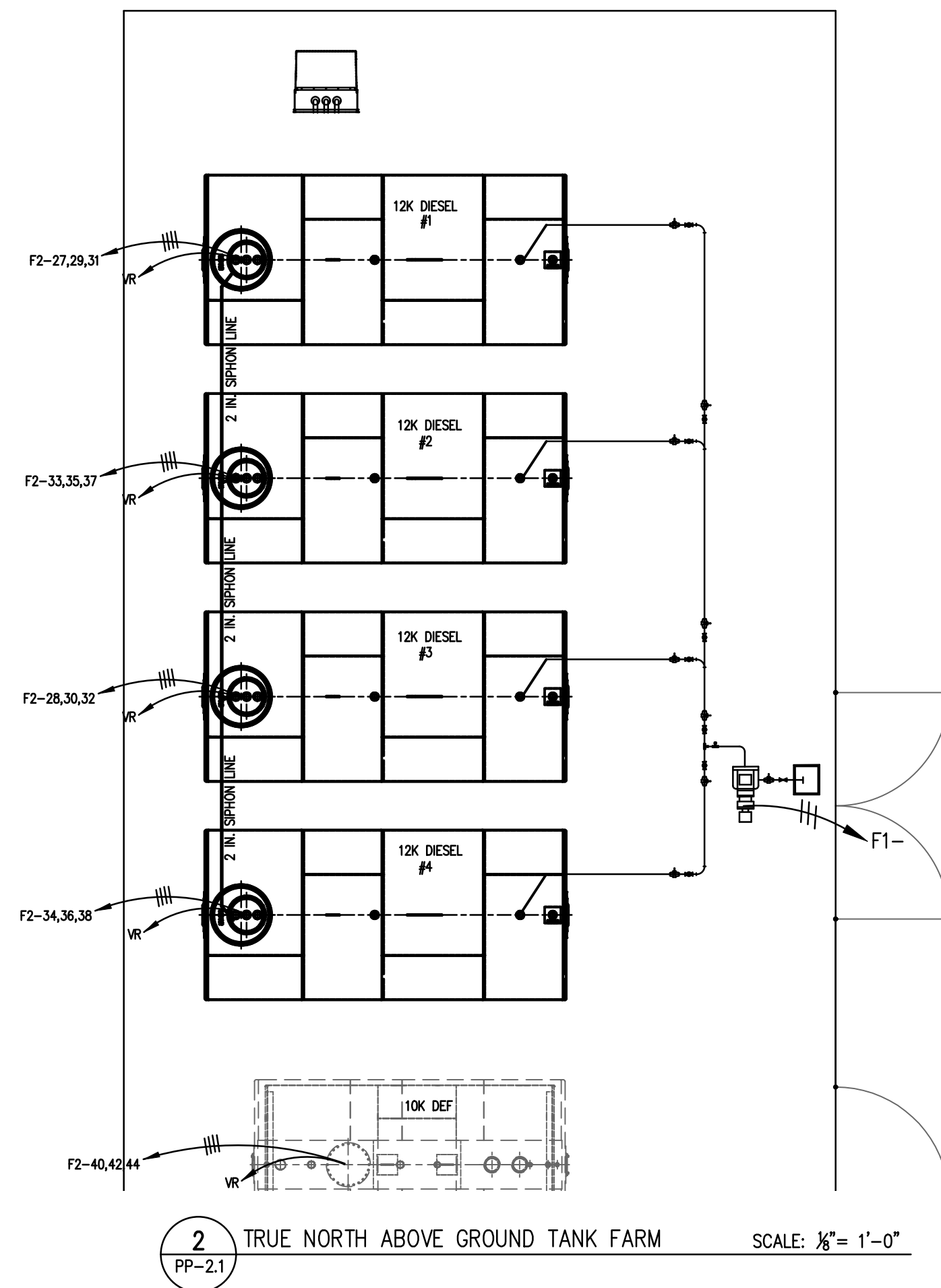


2 ELECTRICAL PLAN FOR CANOPY LIGHTING
PP-2.1 SCALE: 1/8"= 1'-0"
CLASS I, DIVISION I, N.E.C. 514 - 2018 CODE

- SHEET KEY NOTES** Symbol ①
- ① TO FUEL CONTROL PANEL FOR SHUTDOWN OF FUEL.
 - ② 3/4" CONDUIT WITH CONTROL CABLE TO FUEL SYSTEM MONITOR PANEL.
 - ③ LSJ-SCOTTSDALE (OR EQUAL) 130W - L.E.D. 20,000 LUMEN FIXTURES.
 - ④ CONNECT TO SIGNS ON CANOPY (2) CIRCUITS AT 120V EACH.

PANELBOARD SCHEDULE

F2		200 AMP M.L.O., 1Ø , 3W, 120/240 VOLT NEMA 1, FLUSH MOUNT, 66 CIRCUIT					
CB	NO	USE OR AREA SERVED	A	B	USE OR AREA SERVED	NO	CB
20	1	Gas Dispenser	648		Gas Dispenser	2	1
20	3	Gas Dispenser	648	648	Gas Dispenser	4	20
20	5	Gas Dispenser	648	648	Gas Dispenser	6	20
20	7	Gas Dispenser	648	648	Gas Dispenser	8	20
20	9	Space		648	Space	10	20
20	11	Control Power		648	Veeder Root	12	20
20	13	Cashier Outlets	580	240	Data Boxes	14	20
20	15	Cashier Outlets		580	Cashier Outlets	16	20
20	17	Control Power	648	240	Data Boxes	18	20
20	19	Space		=	Space	20	20
20	21	Canopy Signage	480		Canopy Signage	22	20
20	23	Canopy Lights	2120	2120	Canopy Lights	24	2
20	25		2120			26	20
3	27	Diesel Turbine # 1		1638	Diesel Turbine # 3	28	3
20	29		1638			30	20
20	31		1638	1638		32	20
33	33	Diesel Turbine # 2	1638		Diesel Turbine # 4	34	20
35	35		1638	1638		36	20
37	37		1638	1638		38	20
39	39	Space		<	DEF TANK	40	20
41	41		1638			42	20
43	43			=		44	20
45	45			1638	Space	46	20
47	47					48	20
49	49					50	20
51	51					52	20
53	53					54	1
55	55					56	1
57	57					58	20
59	59					60	1
61	61					62	1
63	63					64	1
65	65	Space			Space	66	20
			XXXX VA / 120 VOLT =		AMPS		
			XXXX VA / 120 VOLT =		AMPS		



2 TRUE NORTH ABOVE GROUND TANK FARM
PP-2.1 SCALE: 1/8"= 1'-0"

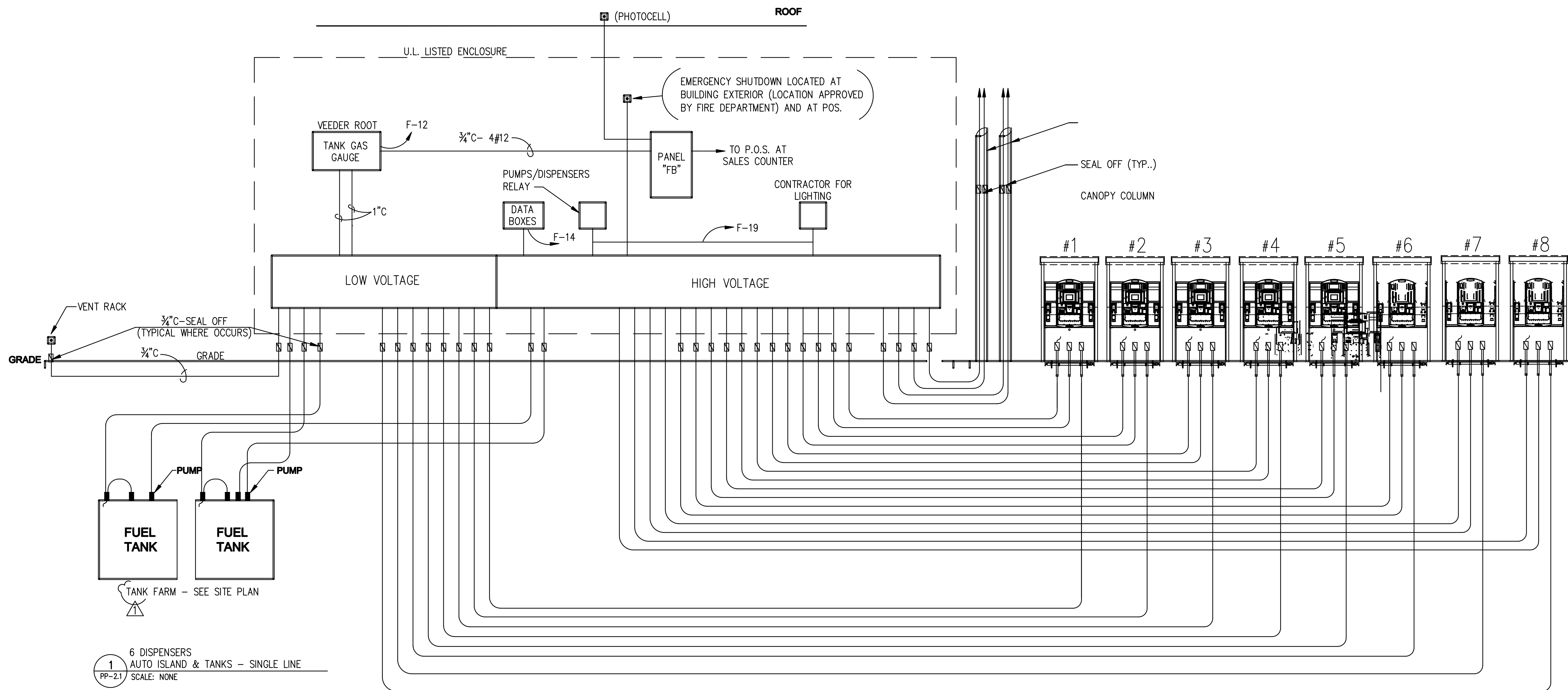
These drawings, as provided by AzTech Petroleum, are not to be used for any purpose other than the petroleum product equipment under the terms and conditions of our signed contract. The use of these drawings shall be held by the user at their own risk for which prepared.

AzTech Petroleum Service, Inc.
4440 Able Drive
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Murphy Development Inc.
Murphy Development
1198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: .302-07-267K

REVISIONS	
MARK	DATE

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE:
DISPENSER,
CANOPY & UST
POWER & LIGHTING
SHEET NUMBER:
PP-2.1



1
PP-2.1

6 DISPENSERS
AUTO ISLAND & TANKS - SINGLE LINE
SCALE: NONE

These drawings, as provided by AzTech Petroleum, are not to be used for any other petroleum product equipment under the terms and conditions of our signed contract. The use of these drawings shall be limited to the specific site for which prepared.

AzTech Petroleum Service, Inc.
4440 Able Drive
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Phone: 928.757.8787
Fax: 928.682.0828

- Drawings For -
Murphy Development Inc.
Murphy Development
1198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: .302-07-267k

REVISIONS	
MARK	DATE

DATE: APRIL 16, 2026
SCALE: AS NOTED
DRAWN: SRT
CHECKED: PT
SHEET TITLE:
**DISPENSERS
SINGLE LINE**
SHEET NUMBER:
PP-2.2
12 of 17

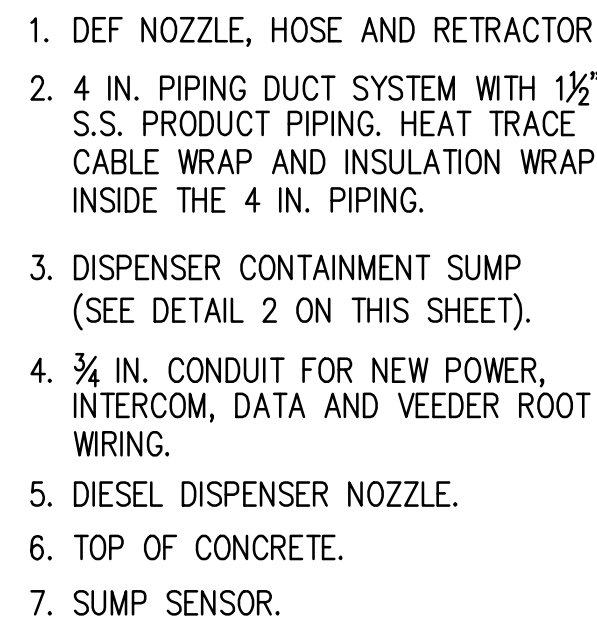


Figure 1 illustrates the installation details of the fuel product pump and containment system. The diagram includes a cross-section of the pump assembly and two perspective views of the containment system.

Cross-section details:

- The pump assembly is 2'-6" wide.
- Expansion joint fillers (2) are 8" thick on either side of the pump.
- The containment system (3) is 6" thick.
- The concrete slab (4) is 4" thick.
- The pump assembly is labeled 1.
- The expansion joint fillers are labeled 2.
- The containment system is labeled 3.
- The concrete slab is labeled 4.
- The pump assembly is labeled 5.
- The expansion joint fillers are labeled 6.

Top perspective view:

- The containment system (3) is shown with a top cover (7).
- The pump assembly (1) is shown with a top cover (7).
- The expansion joint fillers (2) are shown with a top cover (7).
- The concrete slab (4) is shown with a top cover (7).
- The pump assembly is labeled 1.
- The expansion joint fillers are labeled 2.
- The containment system is labeled 3.
- The concrete slab is labeled 4.
- The pump assembly is labeled 5.
- The expansion joint fillers are labeled 6.

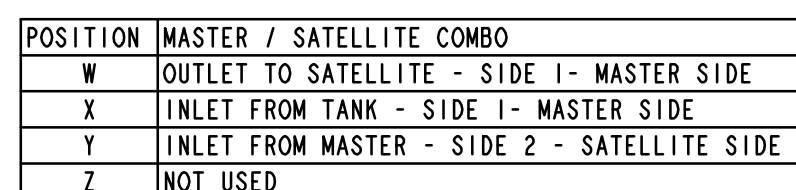
Front perspective view:

- The containment system (3) is shown with a front cover (7).
- The pump assembly (1) is shown with a front cover (7).
- The expansion joint fillers (2) are shown with a front cover (7).
- The concrete slab (4) is shown with a front cover (7).
- The pump assembly is labeled 1.
- The expansion joint fillers are labeled 2.
- The containment system is labeled 3.
- The concrete slab is labeled 4.
- The pump assembly is labeled 5.
- The expansion joint fillers are labeled 6.

Legend:

1. PRODUCT DISPENSER (FUEL PRODUCT PUMP) INSTALLED PER MFR's. INSTRUCTIONS.
2. 1/2" x SLAB THICKNESS EXPANSION JOINT FILLER; TYP. WITH SEALANT.
3. DISPENSER (SUMP) CONTAINMENT SYSTEM INSTALLED PER MFR's. INSTRUCTIONS.
4. 4" CONC. SLAB, w/ FIERMESH.
5. BULKHEAD FITTING: SEAL-OFF's (WHERE OCCURS).
6. DISPENSER PRODUCT DELIVERY PIPING (WHERE OCCURS) PER PUMP MFR's. INSTALLATION INSTRUCTIONS.
7. ELECTRICAL CONDUITS INSTALLED IN DISP. EQUIPMENT AT THE SIDE OF SUMP.

UL 21MU
US LISTED



Technical drawing showing the Primary Electrical Service Side of a unit, including dimensions and component locations.

Dimensions:

- Top: 40-9/16 OR 44 7/8, 36-5/8, 14-3/8, 28-3/4, 20-7/16, 8-5/16, 9-1/8, 9-1/4, 20-1/4
- Left: 23-3/4, 24 1/16, 20-1/8, 11-7/8, 10-1/16, 17-3/4, 6-15/16, 4-3/8
- Right: 12-3/8, 5-1/2, 7-11/16
- Bottom: 16-11/16, 28-1/2, 1-9/16
- Internal: 10, 6-15/16, 10-3/16, 5-1/8

Labels and Callouts:

- 1" CONDUIT FOR POWER AND 2 WIRE LOCATED THIS SIDE - SEE SHEET 5 (UNITS LESS JUNC BOX)
- 1" CONDUIT FOR ETHERNET AND/OR INTERCOM (WHEN REQUIRED) LOCATED THIS SIDE SEE SHEET 5
- OPENING FOR 1/2" CANOPY LIGHT AUX JUNC BOX WHEN PROVIDED
- (4) 13/16 X 1-7/16 ANCHOR BOLT SLOTS
- 3/4 NPT MALE CONDUIT FOR POWER JUNC BOX WHEN PROVIDED
- POWER JUNC BOX WHEN PROVIDED
- 2" NPT OUTLET TO SATELLITE (SUPPLIED WITH UNION)
- 2" NPT INLET FROM TANK
- 1" NPT INLET FROM MASTER (SUPPLIED WITH UNION)
- CANOPY LIGHT AUX JUNC BOX WHEN PROVIDED
- Y, X, W, Z (Component Markers)

Views:

- Top View (Main)
- Side A (Bottom View)

Primary Electrical Service Side

POSITION	1 GRADE 1 HOSE SINGLE MASTER	1 GRADE 2 HOSE DUAL MASTER
W	OUTLET TO SATELLITE - SIDE 1	OUTLET TO SATELLITE - SIDE 1
X	INLET FROM TANK - SIDE 1	INLET FROM TANK - SIDE 1
Y	NOT USED	INLET FROM TANK - SIDE 2
Z	NOT USED	INLET TO SATELLITE - SIDE 2

Diagram illustrating the dimensions and component locations for a 1200mm x 1200mm metal cabinet. The diagram shows the internal layout with dimensions in millimeters (mm) and inches (in).

Dimensions:

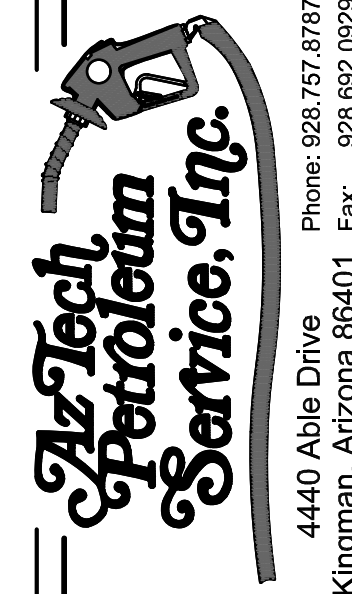
- Overall Width: 1200 mm (48 in)
- Overall Height: 1200 mm (48 in)
- Internal Width (Clearance): 1140 mm (45 in)
- Internal Height (Clearance): 1140 mm (45 in)
- Top Panel Thickness: 20 mm (3/4 in)
- Bottom Panel Thickness: 20 mm (3/4 in)
- Side Panel Thickness: 20 mm (3/4 in)
- Internal Width (Clearance): 1140 mm (45 in)
- Internal Height (Clearance): 1140 mm (45 in)
- Internal Width (Clearance): 1140 mm (45 in)
- Internal Height (Clearance): 1140 mm (45 in)

Component Locations:

- 1" CONDUIT FOR POWER AND 2 WIRE LOCATED THIS SIDE - SEE SHEET 5 (UNIT LESS JUNC BOX)**: Located on the top left side of the cabinet.
- (4) 13/16 X 1-7/16 ANCHOR BOLT SLOTS**: Located on the top and bottom panels.
- 3/4 NPT MALE CONDUIT FOR POWER JUNCTION BOX WHEN PROVIDED**: Located on the bottom left side of the cabinet.
- COMPONENT LOCATIONS**: Indicated by circles with 'X' and 'Y' marks.

POSITION	GRADE 1 HOSE SINGLE SATELLITE	GRADE 2 HOSE DUAL SATELLITE	2 GRADE 2 HOSE SINGLE SIDED DUAL SATELLITE
W	NOT USED	NOT USED	NOT USED
X	INLET FROM MASTER - SIDE 1	INLET FROM MASTER - SIDE 1	INLET FROM MASTER - SIDE 1
Y	NOT USED	INLET FROM MASTER - SIDE 2	INLET FROM MASTER - SIDE 2
Z	NOT USED	NOT USED	NOT USED

These drawings, as provided by AzTech Petroleum, are restricted to the installation of petroleum product equipment under the terms and conditions of our signed contract. The use of these drawings shall be restricted to the original site for which prepared.



— Drawings For —

Murphy Development Inc.
Murphy Development
11198 W. Old Hwy 66, Ash Fork, Arizona 86320
Yavapai County APN: 302-07-267k

[illegible]

DATE:	APRIL 16, 2026
SCALE:	AS NOTED
DRAWN:	SRT
CHECKED:	PT
SHEET TITLE:	DIESEL DISPENSER DETAILS
SHEET NUMBER:	P-3.0

Pipe Pulling

When dispensing pipe from a reel, always pull it from the bottom of the reel or the pipe may become kinked. If the pipe becomes kinked when taking it off the reel, do not use the kinked section of pipe. When approaching the end of a reel of pipe, disconnect both ends of the pipe from the reel to avoid kinking.

Fittings

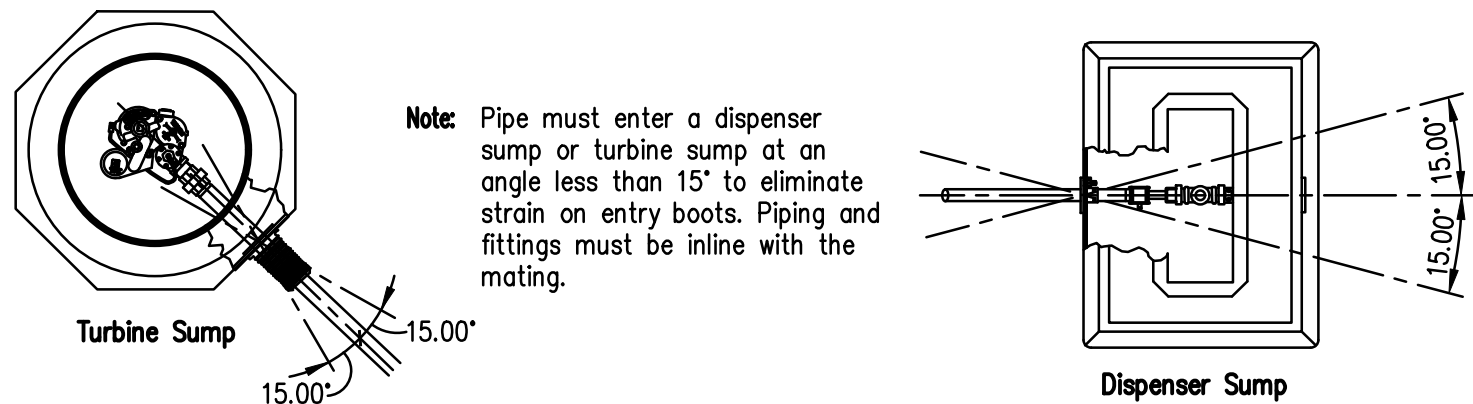
FFS requires that OEM fittings be used in all XP series piping systems. Each offers a variety of options for XP series pipe fittings, each with its own unique installation instructions. Each XP series fitting package will have detailed installation instructions specific to that design to insure a proper, leak-tight assembly.

NPT threads are used on all fittings and should be sealed with a gas and oil resistant pipe sealant. When completing the installation of a clamshell fitting, tighten the clamps so they are metal to metal. Swage fitting installations must be done using only ATP swage fitting tooling. Using other manufacturer's tooling will result in improper assembly and potential failure.

FFs offers galvanized pipe connectors to prevent corrosion. Pipe connectors can be purchased locally as long as they are 150 lb malleable, standard with NPT threads.

Boots

Entry boots come in sizes made to accommodate all pipe sizes including conduit and rigid pipe from 1/2" to 4". When installing pipe into entry boots, piping must not be more than 15 degrees from perpendicular to the sump walls. Entry angles in excess of 15 degrees from perpendicular can cause excessive stress, which may damage entry boots, kink the pipe and/or cause environmental contamination. Entry boots should also not be installed in the bottom of any containment sump.



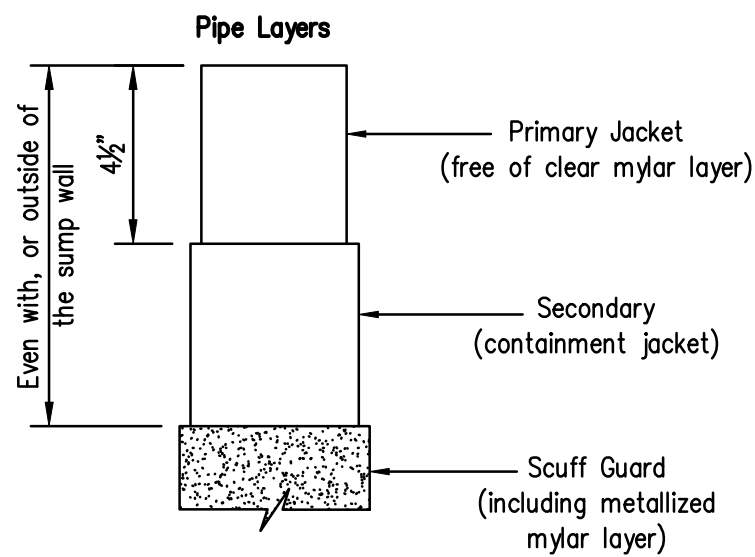
Ducting

Ducting is available as a piping chase, which allows for removal after installation. APT ducting is not a containment layer, but it is air-testable. Pull the ducting and cut it to the proper length, but don't attach it to any entry boots as this time. Feed the primary pipe through the ducting using duct tape to keep the end of the pipe from catocaching on the ducting ribs as it's fed through.

Note: When installing pipe ducting, cut the ducting to the appropriate length to eliminate excessive bends.

Pipe Outback

Once the pipe run is pulled and each section is cut to length, square off the end of the pipe, de-burr it, and then proceed with the outback. If you are using SC (Secondary Containment) piping, cut back the scuff guard layer even with or outside the sump wall and cut back the SC layer 4 1/2". For further outback details, see the precess's complete description in the DWC-XP-XXX Double Wall Cutter (SC) installation instructions.



* The scuff guard must cut back to be even with, or outside of, the sump wall ensuring that the entry boot seals on the SC jacket and not on the scuff guard layer.

1 PIPE PULLING SCALE: None
PP-3.3 N.T.S.

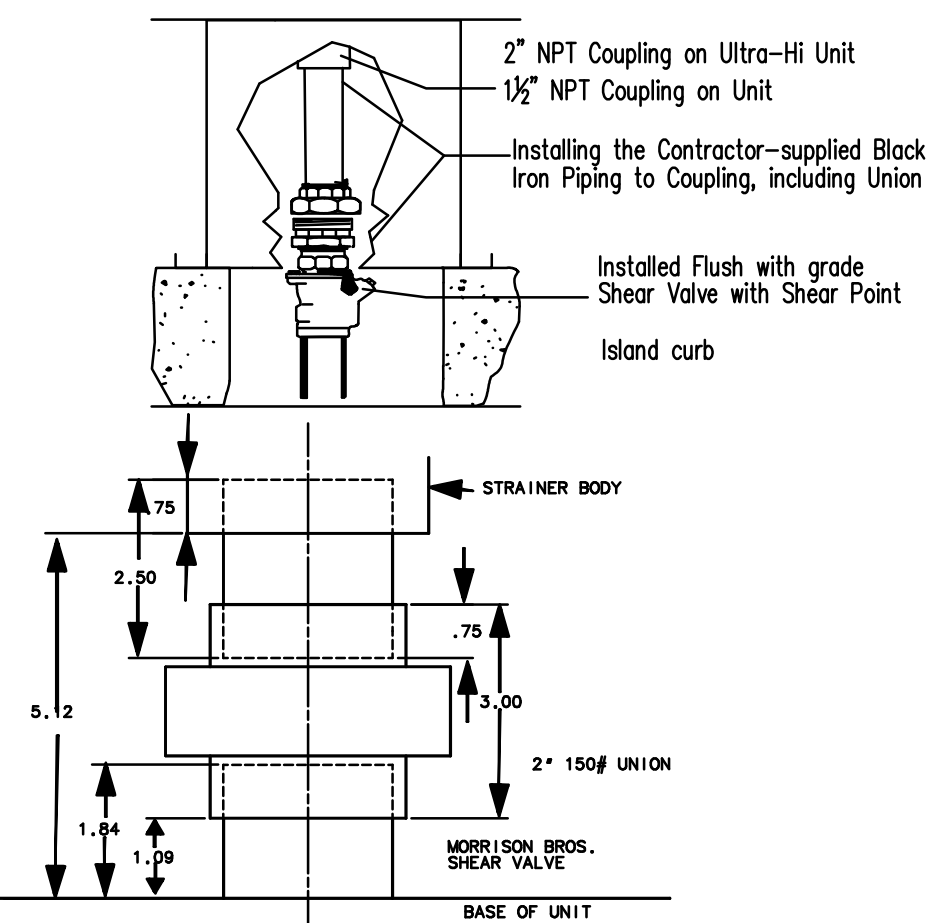
WARNING

For Ultra-Hi units, do not permanently remove the strainer under any circumstances to accommodate the shear valves from certain manufacturers that may not properly position the shear section of the valve.

Use a Morrison or equivalent shear valve to position the shear section of the shear valve.

Failure to use the strainer could result in the valves or meters, void warranty, and create a safety hazard with an improperly operating valve.

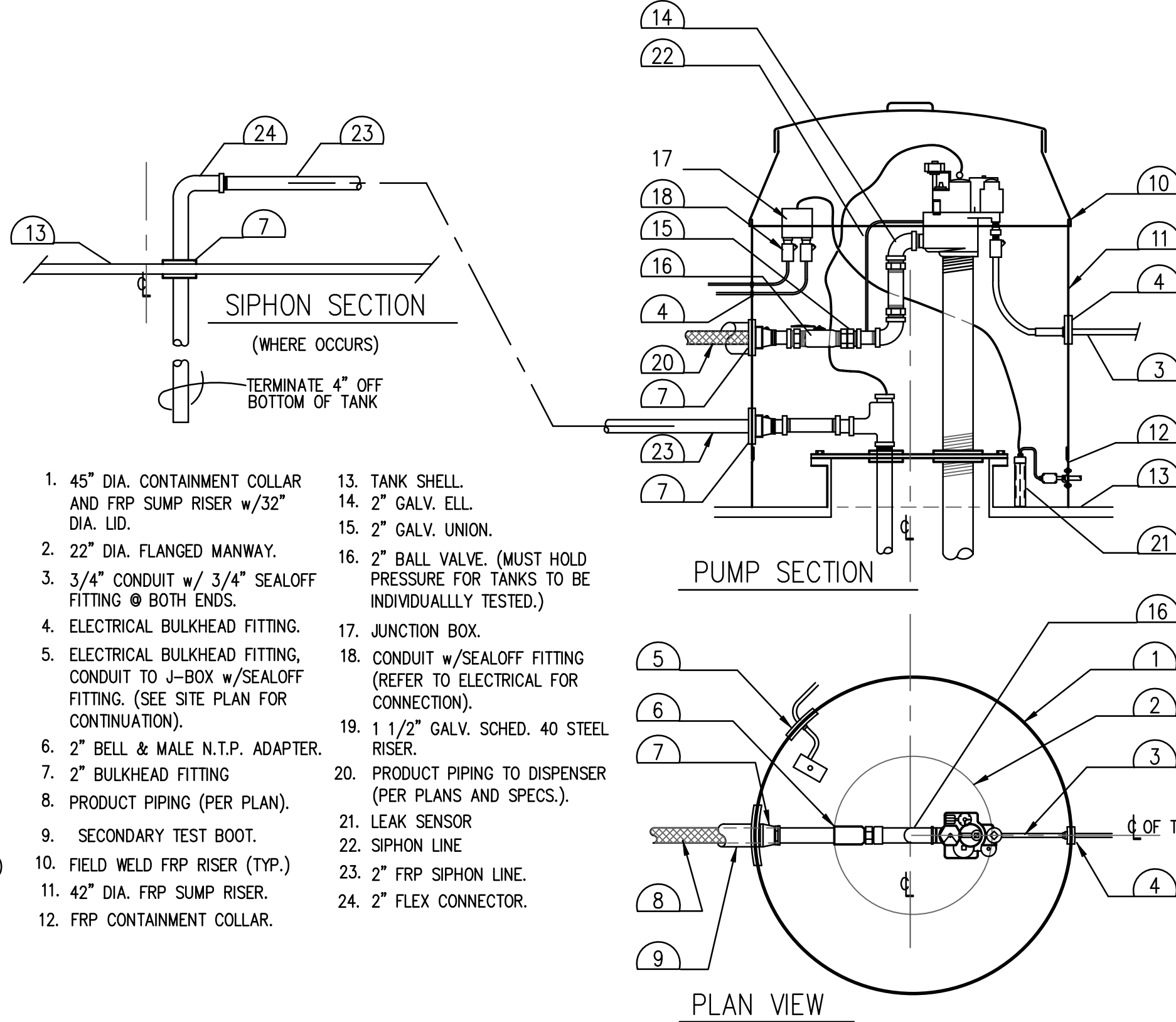
Figure 6-5: Shear Valve at Grade



Notes:
1. Regular (on-double wall) shear valve is shown.
2. OPW supplies an Encore Ultra-Hi comp atb le doublepoppet shear valvewith a union top
3. (PW Part Number 10RUP-2006).

It is a mandatory code requirement that the shear section of the shear valve be within ±3/4 inches (or to shear valve manufacturer's requirement, whichever is tighter) from the plane of the bottom of the base of a dispenser. Not all shear valve styles allow the maintenance of this tolerance for Encore Ultra-Hi units. A N23047 single poppet male top Morrison 2 X 2 636M-0200AV or a code-approved equivalent shear to modify the dispenser plumbing (or example, remove the strainer ho using) to accommodate other model valves, or install units such that the shear groove of the shear valve is not within ± 3/4 inches of the base plane of the dispenser. Use a Check Valve (23274) between the union and strainer housing to ensure that the shear section is properly located.

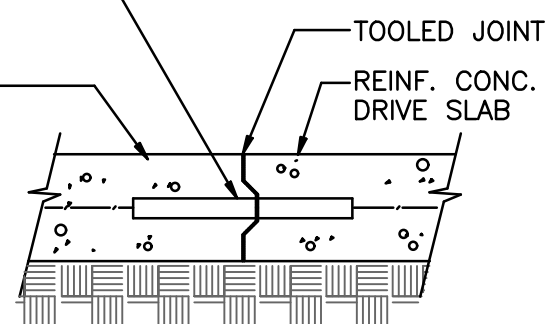
6 DISPENSER SHEAR VALVE SCALE: NONE
PP-3.2 MDE-3985AE Encore © Installation Manual Page 6-8



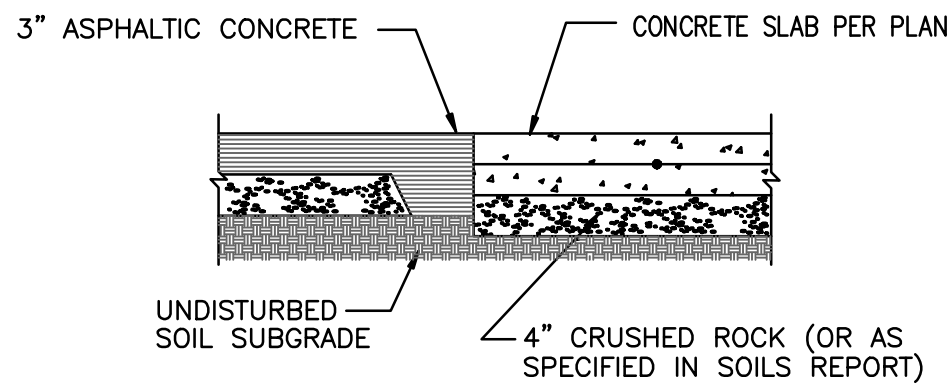
- 45" DIA. CONTAINMENT COLLAR AND FRP SUMP RISER w/32" DIA. LID.
- 22" DIA. FLANGED MANWAY.
- 3/4" CONDUIT w/ 3/4" SEALOFF FITTING @ BOTH ENDS.
- ELECTRICAL BULKHEAD FITTING.
- ELECTRICAL BULKHEAD FITTING, CONDUIT TO J-BOX w/SEALOFF FITTING. (SEE SITE PLAN FOR CONTINUATION).
- 2" BELL & MALE N.T.P. ADAPTER.
- 2" BULKHEAD FITTING
- PRODUCT PIPING (PER PLAN).
- SECONDARY TEST BOOT.
- FIELD WELD FRP RISER (TYP.)
- 42" DIA. FRP SUMP RISER.
- FRP CONTAINMENT COLLAR.
- TANK SHELL.
- 2" GALV. ELL.
- 2" GALV. UNION.
- 2" BALL VALVE. (MUST HOLD PRESSURE FOR TANKS TO BE INDIVIDUALLY TESTED.)
- JUNCTION BOX.
- CONDUIT w/SEALOFF FITTING (REFER TO ELECTRICAL FOR CONNECTION).
- 1 1/2" GALV. SCHED. 40 STEEL RISER.
- PRODUCT PIPING TO DISPENSER (PER PLANS AND SPECS.).
- LEAK SENSOR
- SIPHON LINE
- 2" FRP SIPHON LINE.
- 2" FLEX CONNECTOR.

2 DIESEL SIPHON LINE N.T.S.
PP-3.3

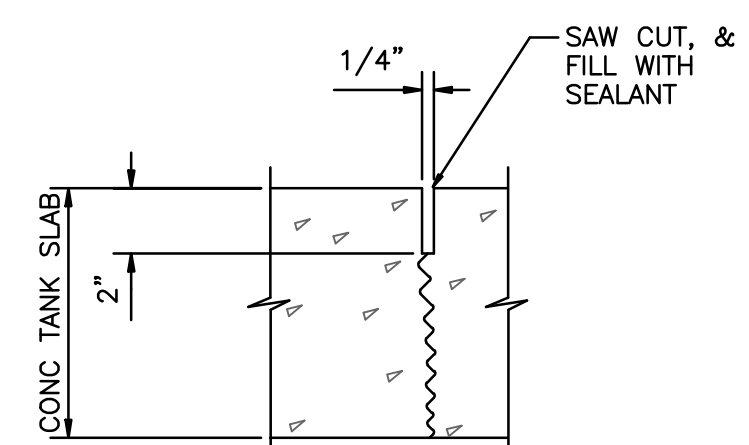
3/4" DIA. SMOOTH STL DOWEL 14" LONG-12" O.C. GREASE ONE END & PULL 1" BEFORE REMOVING FORMS REINF. CONC. TANK SLAB



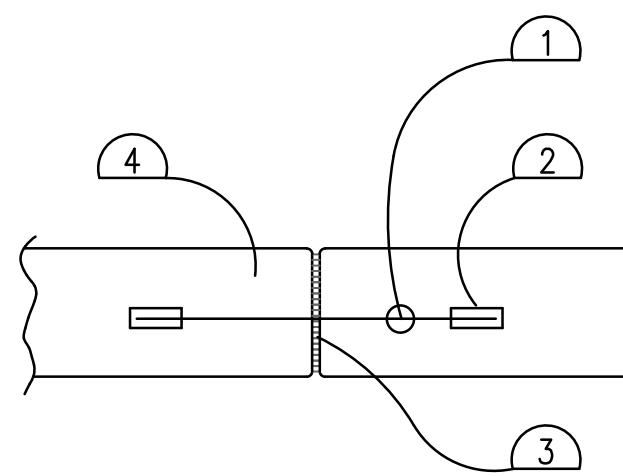
UTILIZE FOR NEW CONCRETE TO NEW CONCRETE JOINT, FOR NEW CONCRETE TO EXISTING CONCRETE JOINT, DRILL EXISTING CONCRETE SLAB AND ELIMINATE KEY.



9 TYPICAL KEY JOINT Scale: NONE
PP-3.3

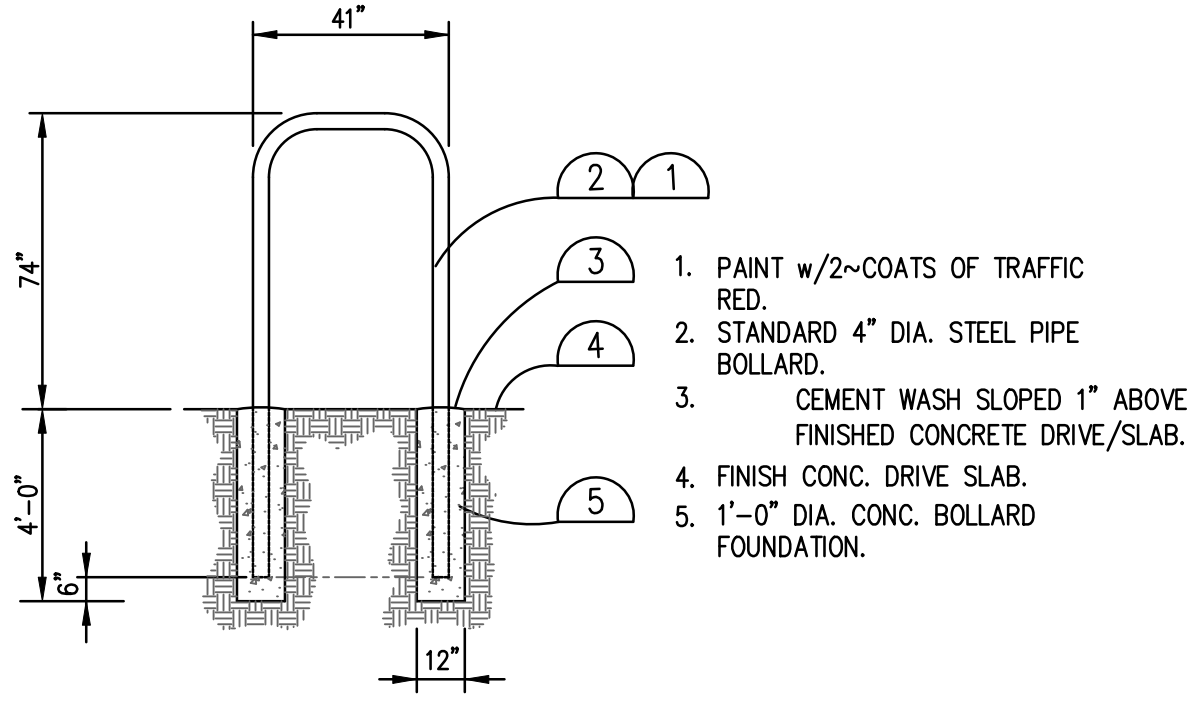


11 TYPICAL CONTROL JOINT @ TANK SLAB Scale: NONE
PP-3.3

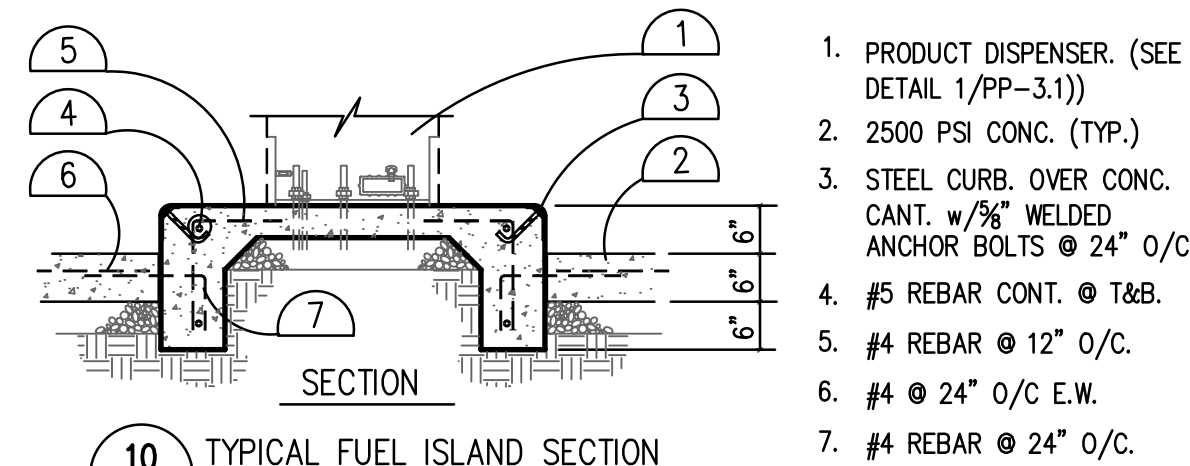


12 EXPANSION/CONTRACTION JOINT N.T.S.
PP-3.3

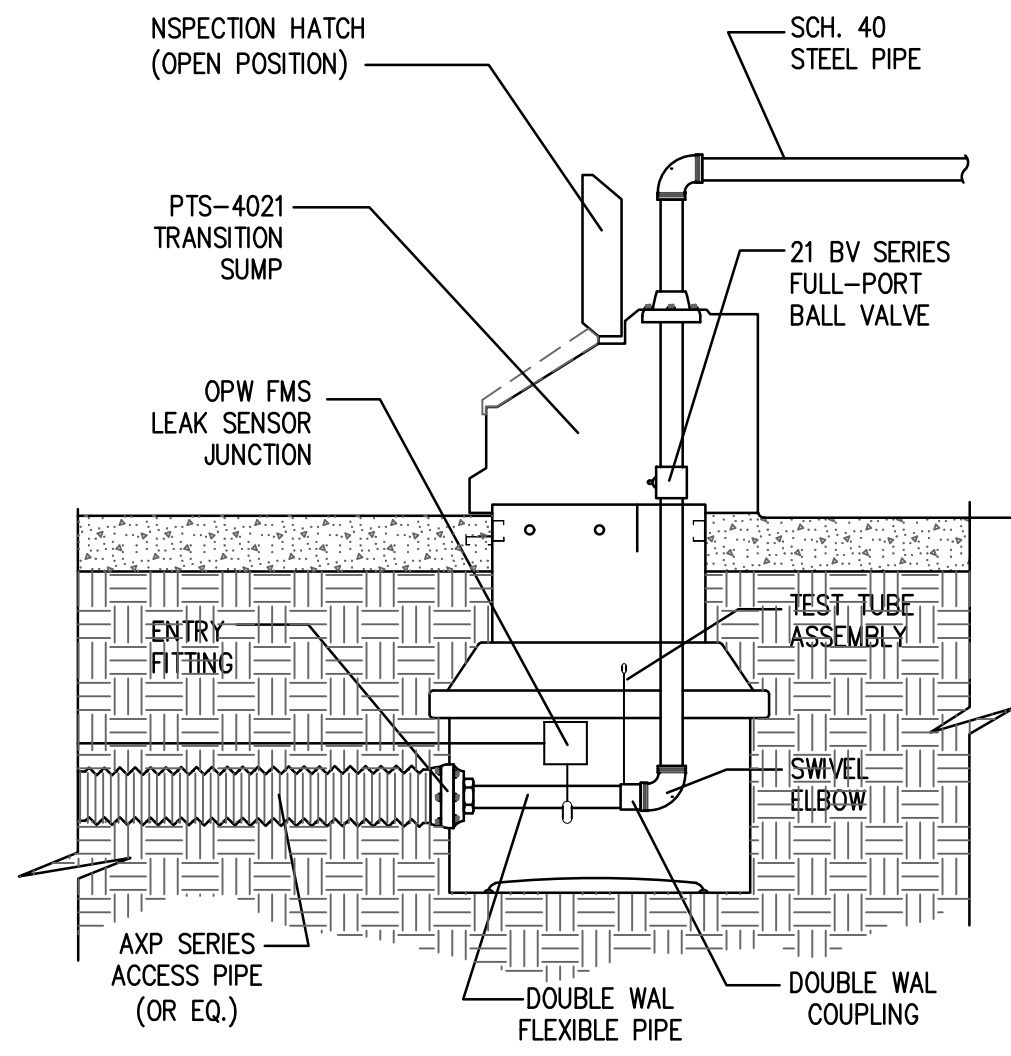
3 TYPICAL SINGLE PIPE BOLLARD SCALE: None
PP-3.2



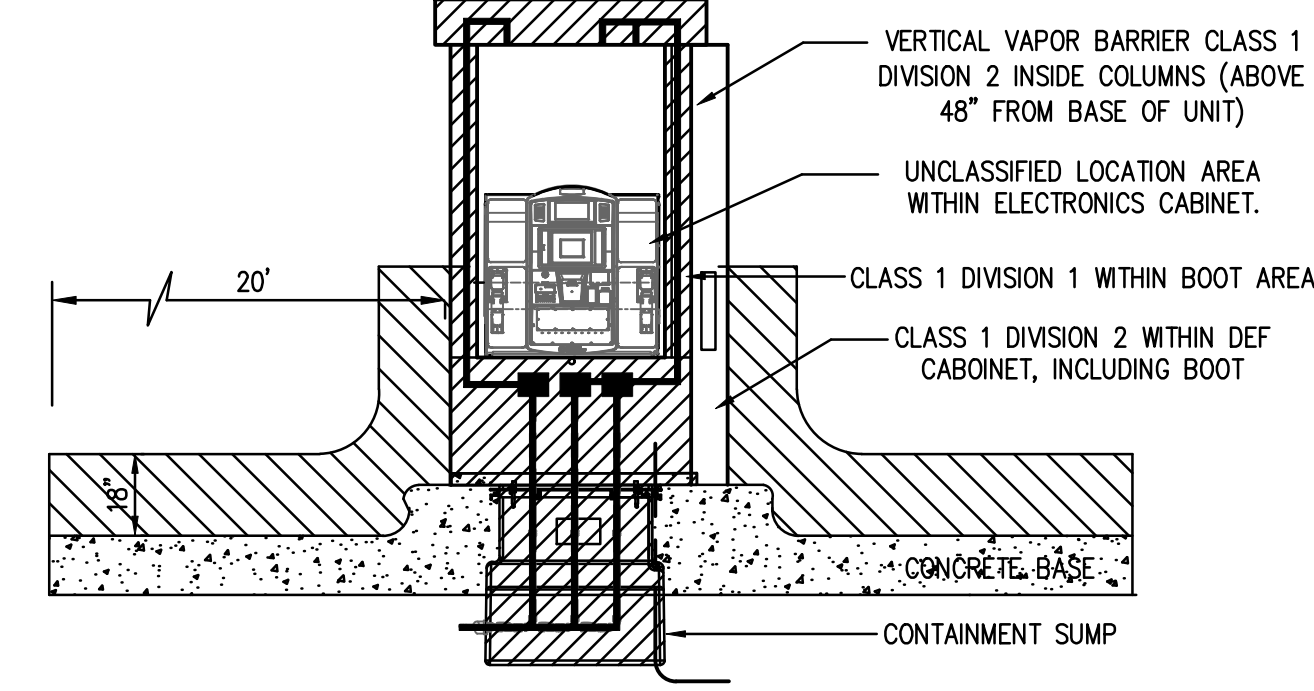
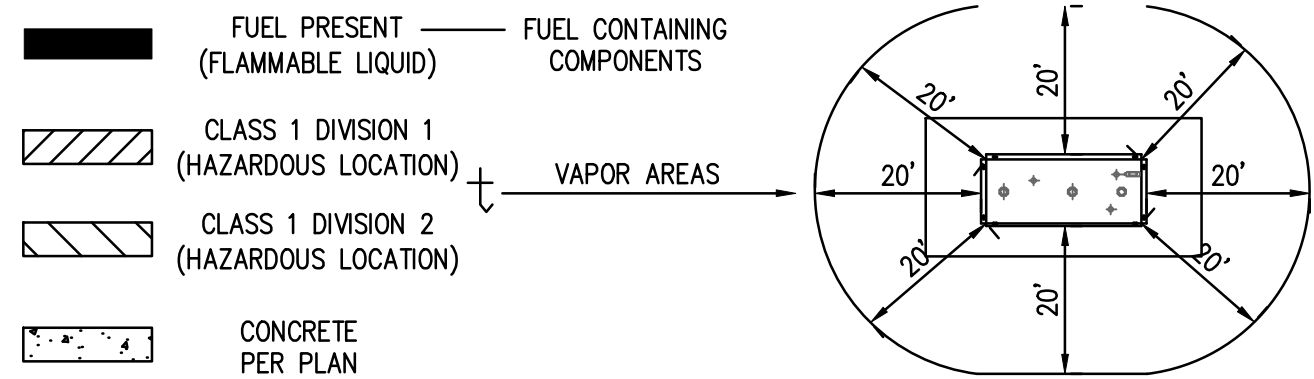
4 TYPICAL PIPE BOLLARD SCALE: None
PP-3.3



10 TYPICAL FUEL ISLAND SECTION Scale: NONE
PP-3.3



3 TYPICAL TRANSITION SUMP N.T.S.
PP-1.0 (2 Piece - Polyethylene Sump/Polyethylene Top)



NOTES:
1. NOT APPLICABLE TO DEF-ONLY DISPENSERS.
2. DEF IS NON-FLAMMABLE AND DOES NOT GENERATE EXPLOSIVE VAPORS. UNITS DISPENSING BOTH FUEL AND DEF MUST FOLLOW THE FLAMMABLE FUEL REGULATORY REQUIREMENTS.

5 HAZARDOUS LOCATIONS DIAGRAM SCALE: None
PP-3.3

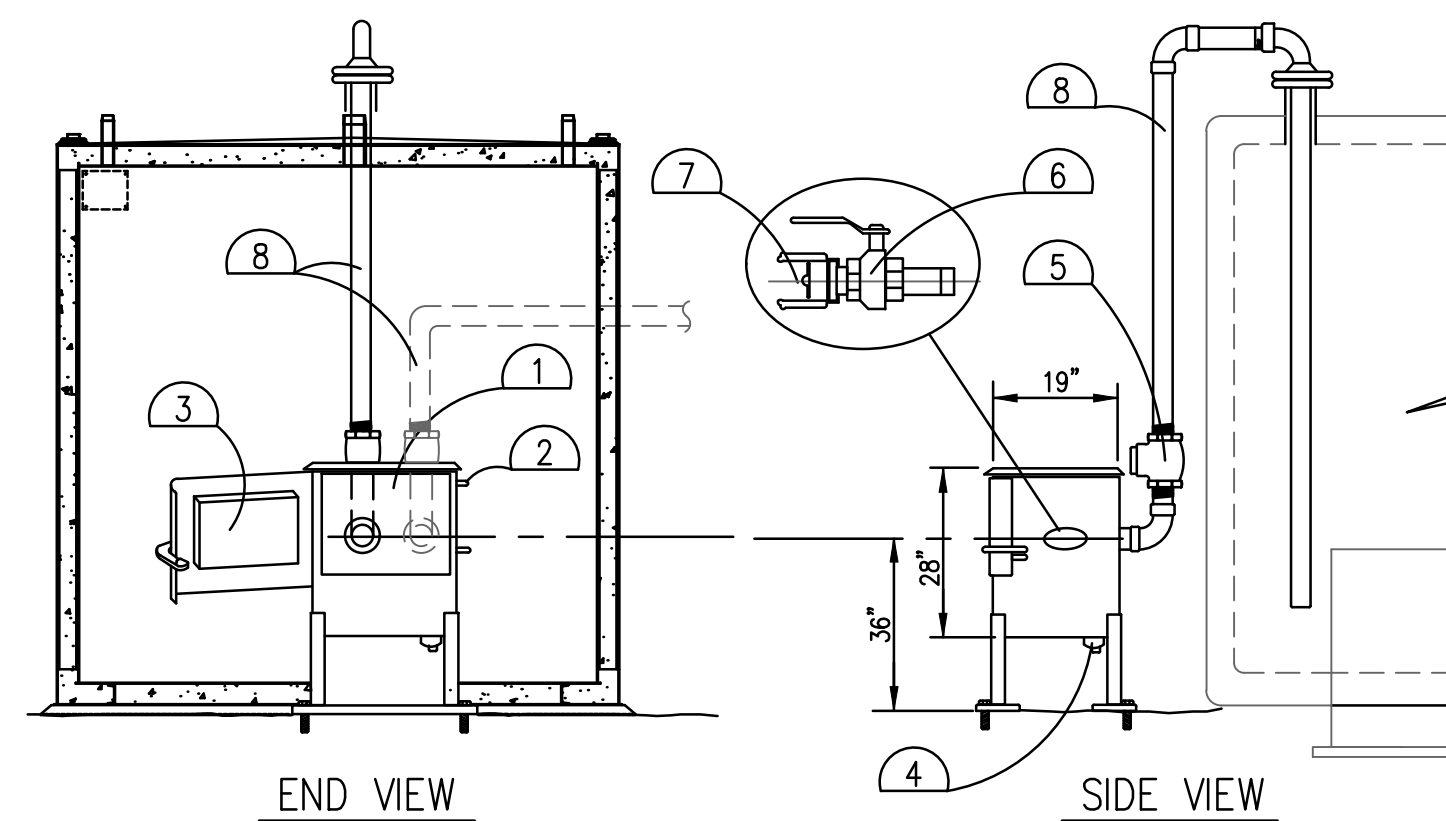
WARNING:
NFPA 70, SECTION 514, TABLE 3 DEFINES THE AREA UNDER THE DISPENSER AS A CLASS 1 DIVISION 1 HAZARDOUS LOCATION. THE DEF INLET MUST BE NSTALLED PER MANUFACTURERS INSTRUCTIONS. THE DEF INLET CANNOT BE INSTALLED FROM A COMMON PIT BOX (SUMP) UNDER THE DEF CABINET INTO THE DEF CABINET.

AzTech Petroleum Service, Inc.
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Murphy Development
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Yavapai County APN: .302-07-267k

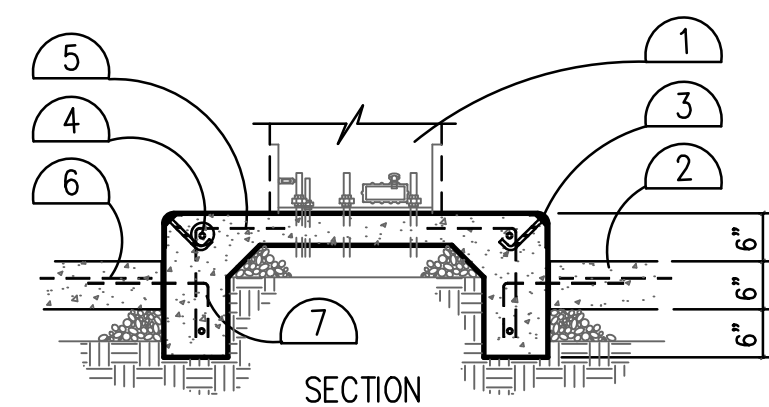
REVISIONS	
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DATE:	APRIL 16, 2026
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CHECKED:	PT
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1 GROUND LEVEL SPILL CONTAINMENT UNIT N.T.S.
PP-3.2

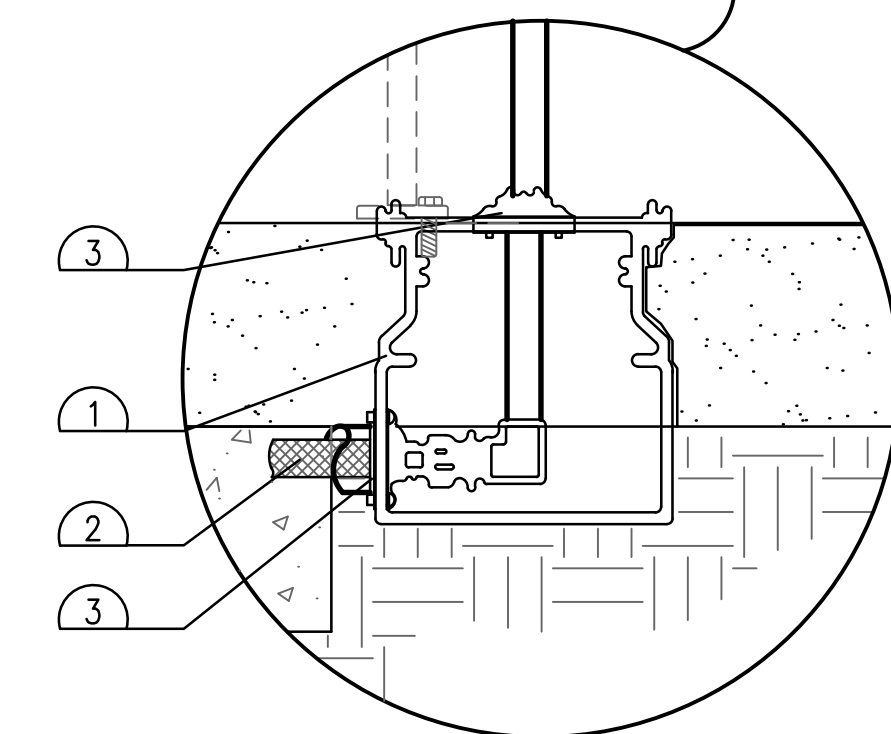
- 20 GALLON SPILL CONTAINMENT UNIT: (EITHER SINGLE, OR DOUBLE DELIVERY UNIT. SEE PIPING PLAN)
- GROUND STUD.
- LOCKABLE, HINGED DOOR, WITH TANK FILL RECORD STORAGE INSIDE.
- BOTTOM SLOPES TO 1/2" F.P.T. DRAINAGE COCK.
- 3" CHECK VALVE.
- 3" BALL VALVE.
- 3" MALE CAMLOCK AND DUST CAP.
- 3" PRODUCT FILL PIPING.



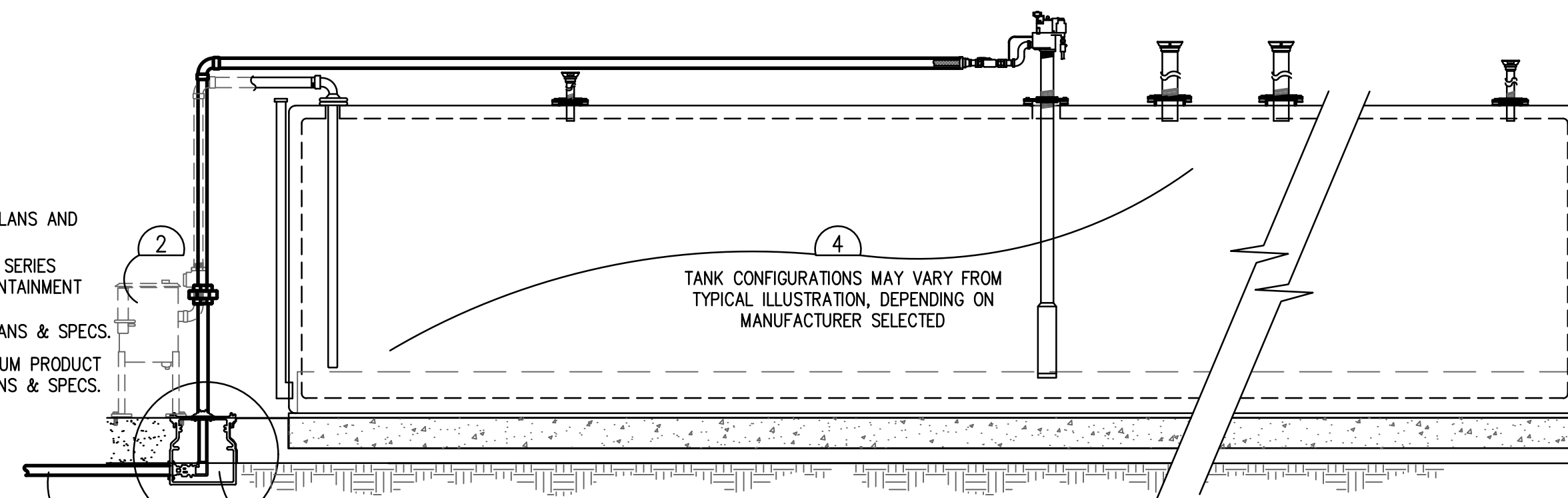
4 DIESEL FUEL ISLAND Scale: NONE
PP-3.2

- PRODUCT DISPENSER. (SEE DETAIL 1/PP-3.1)
- 2500 PSI CONC. (TYP.)
- STEEL CURB, OVER CONC. CANT. w/ 3/8" WELDED ANCHOR BOLTS @ 24" O/C.
- #5 REBAR CONT. @ T&B.
- #4 REBAR @ 12" O/C.
- #4 @ 24" O/C E.W.
- #4 REBAR @ 24" O/C.

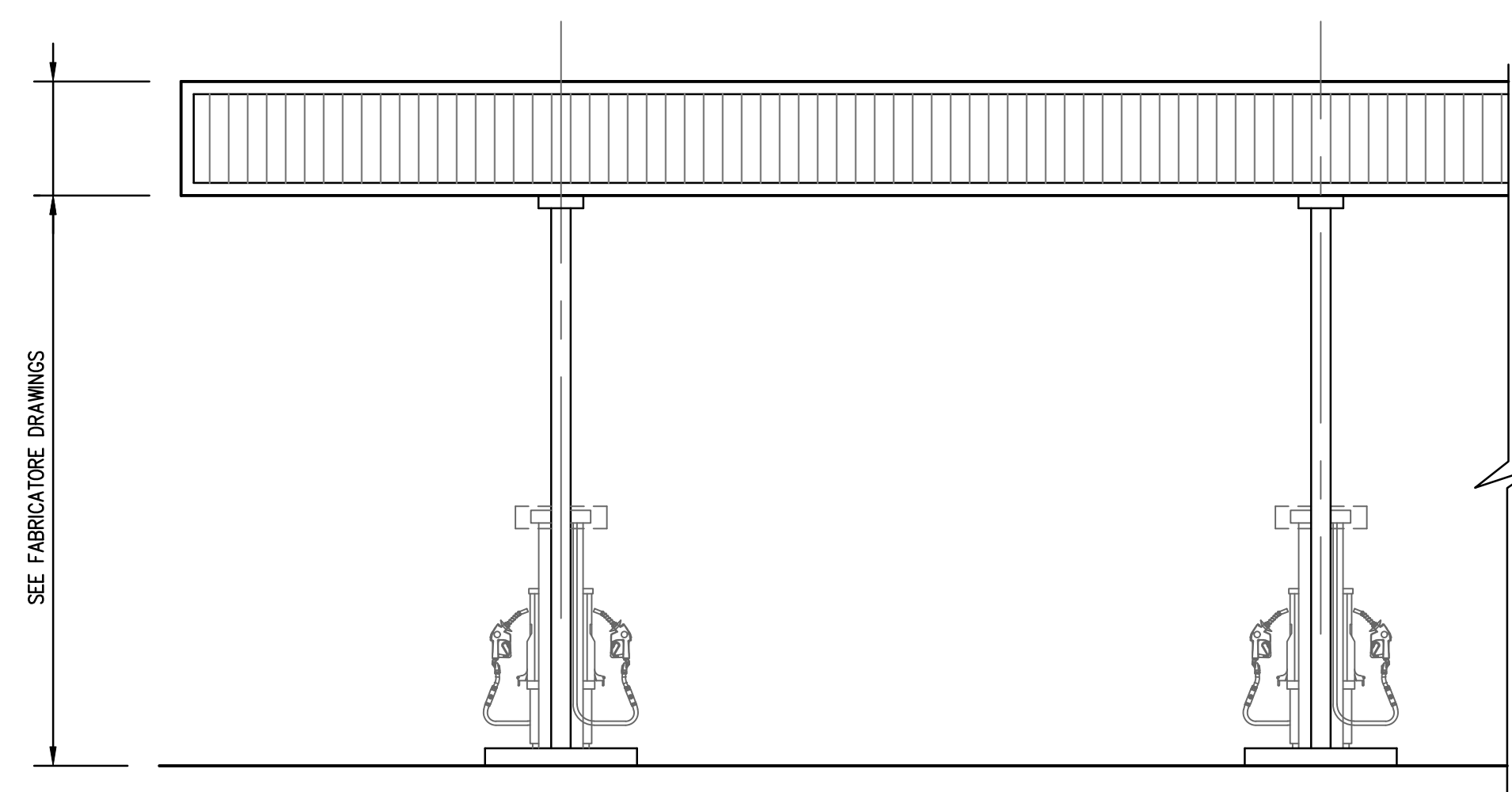
- TRANSITION SUMP PER PLANS AND SPECS.
- BAKER INDUSTRIES #700 SERIES GROUND LEVEL SPILL CONTAINMENT UNIT.
- PRODUCT PIPING PER PLANS & SPECS.
- ABOVE GROUND PETROLEUM PRODUCT STORAGE TANK PER PLANS & SPECS.
- 2" BULKHEAD FITTING



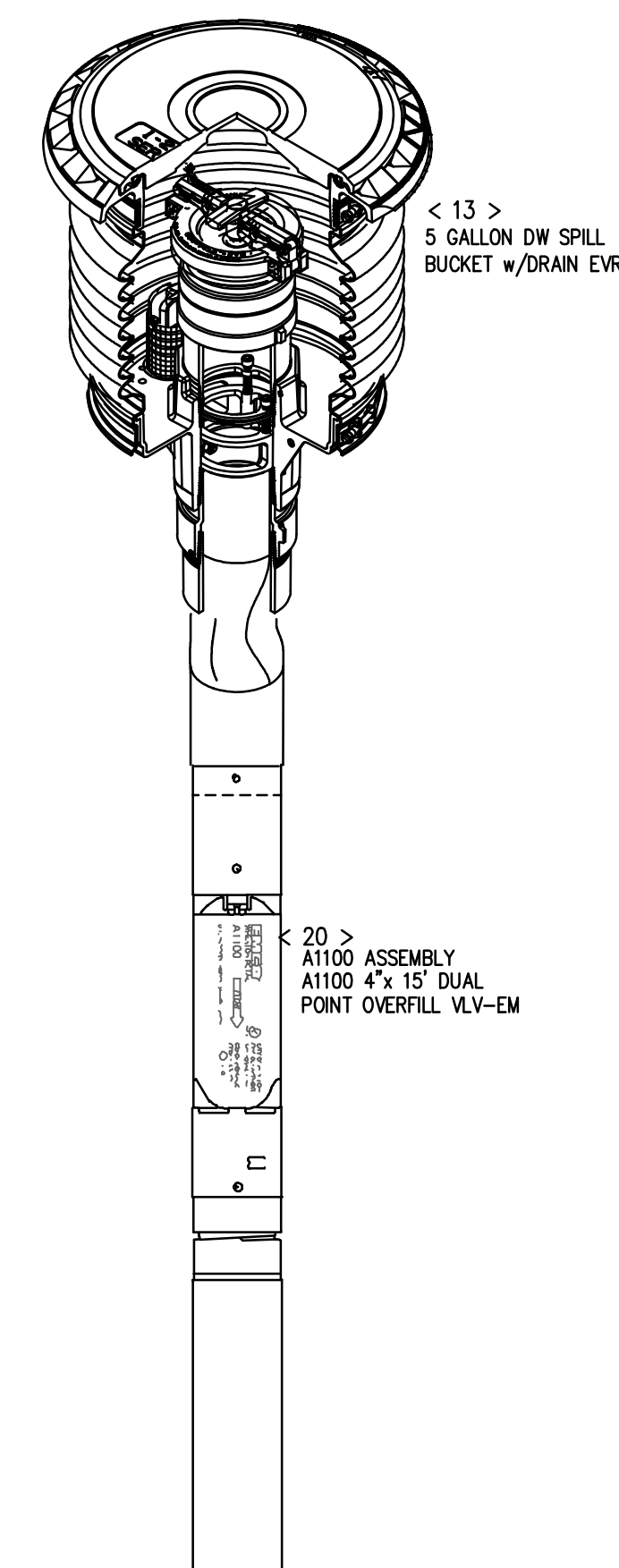
3 TYPICAL TRANSITION SUMP N.T.S.
PP-3.2



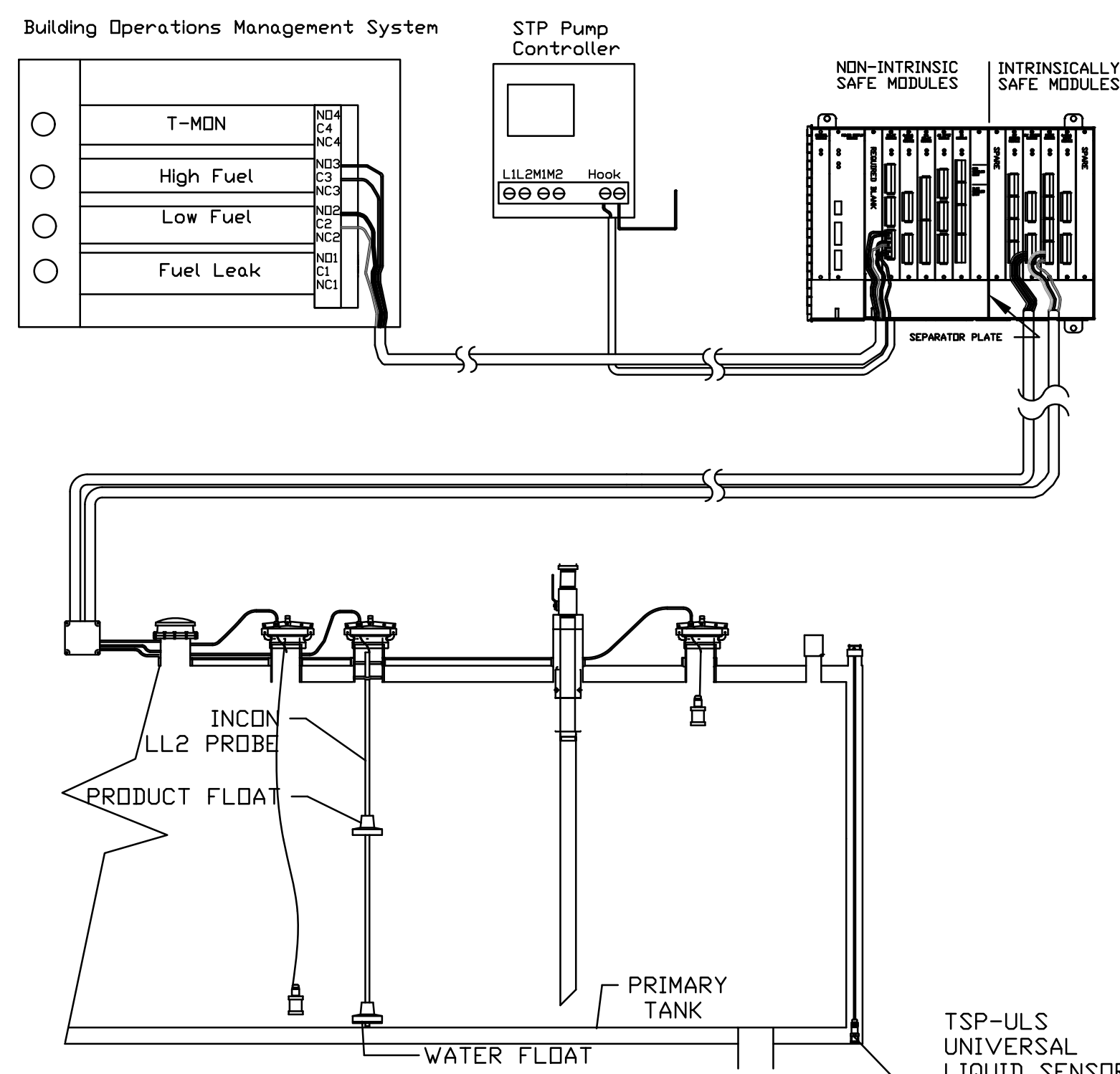
2 TYPICAL ABOVE GROUND PETROLEUM TANK (AST) & TRANSITION SUMP SCALE: NONE
PP-3.2



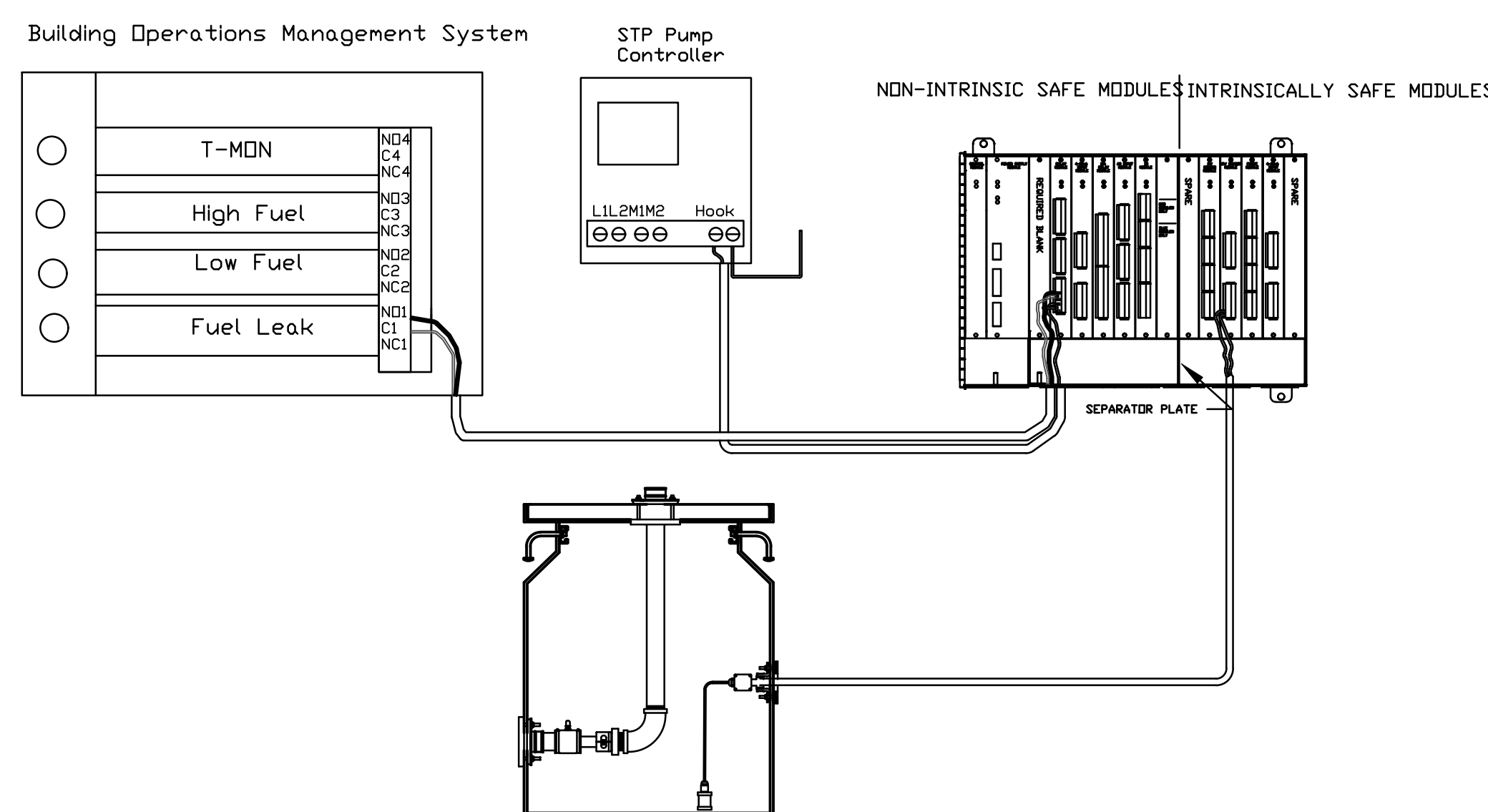
5 CANOPY ILLUSTRATION Scale: 1/4" = 1'-0"
PP-3.2



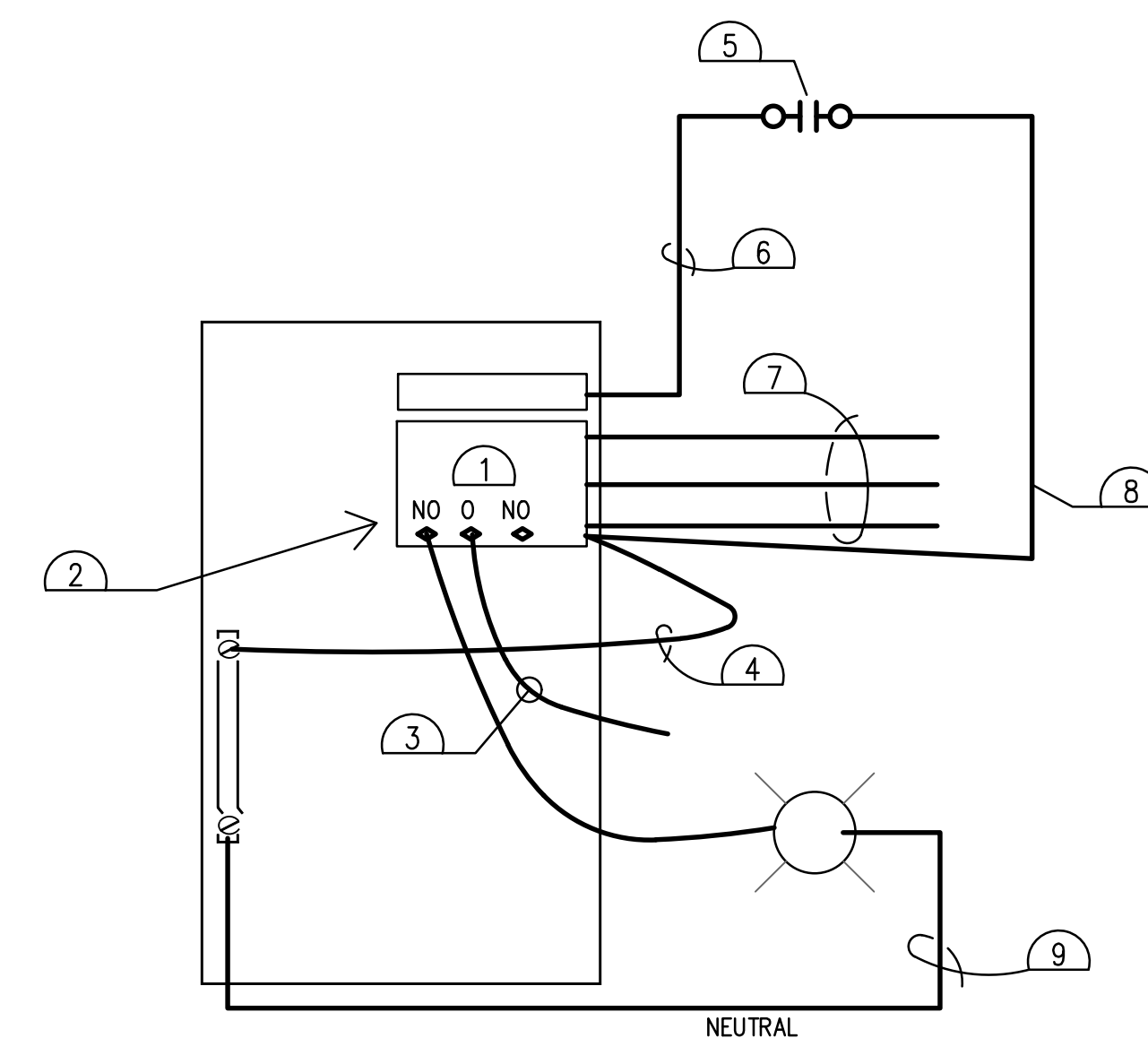
6 SPILL BUCKET AND OVERFLOW SCALE: None
PP-3.2



7 TYPICAL HIGH AND LOW LEVEL ALARMS SCALE: NONE
PP-3.2



8 TYPICAL POSITIVE SHUT SOWN SCALE: NONE
PP-3.2



9 SHUNT TRIP SCALE: NONE
PP-3.2

- SHUNT TRIP BREAKER.
- DRY AUXILIARY CONTACTS
- 120V FROM BREAKER OR OTHER POWER SOURCE
- NEUTRAL FOR SHUNT TRIP
- NORMALLY OPEN
- 120 VOLTS THROUGH NO CONTACT
- POWER OUT
- 120V THAT ACTIVATES THE SHUNT COIL AND TRIPS THE BREAKER.
- LIGHT STROBE ALARM TO NOTIFY THE SHUNT TRIP BREAKER HAS BEEN TRIPPED.

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PIPE INSTALLATION

Products (Red Thread and Green) Threaded HP Series Silver Streak	Minimum		Maximum	
	ft.	m	ft.	m
1"– 4" Piping	2	0.6	15	4.6
6"– 24" Pipng	3	0.9	15	4.6
30"– 42" Piping	4	1.2	15	4.6

TABLE 3 (Recommended Buriel Depths

(Excerpt's from pipe installation handbook)

- (1) Based on a 1000 psi composite constrained soil modulus. Contact Fiber Glass Systems. Applications Engineering for recommendations if other soil conditions or special loading conditions exist.
- (2) Consult factory for greater burial depth recommendations.

Trench Preparation – Final bedding of the trench must be as uniform and continuous as possible. Before back–filling, fill all gaps under the pipe with proper bedding material. Avoid sharp bends and sudden changes in slope. It is important to remove all sharp rocks, cribbage, or other foreign objects that could come in contactwith the piping.

BURIAL DEPTH:

Minimum burial depth in unpaved areas for pipe subjected to vehicular loads depends on pipe grade, pipe size, vehicle axle weight, and the bedding material. Depths for axle loads of 34,000 lbs., minimum depth of cover (from the top of the pipe to the surface) and moderately compacted non–clay bearing soils is shown in Table 3.

Maximum burial depth is dependent on the backfill material. For moderately compacted soils that do not contain large amounts of highly expansive clays, the maximum burial depth is shown in Table 3.

The pipe should always be buried below the frost line.

PIPE INSTALLATION

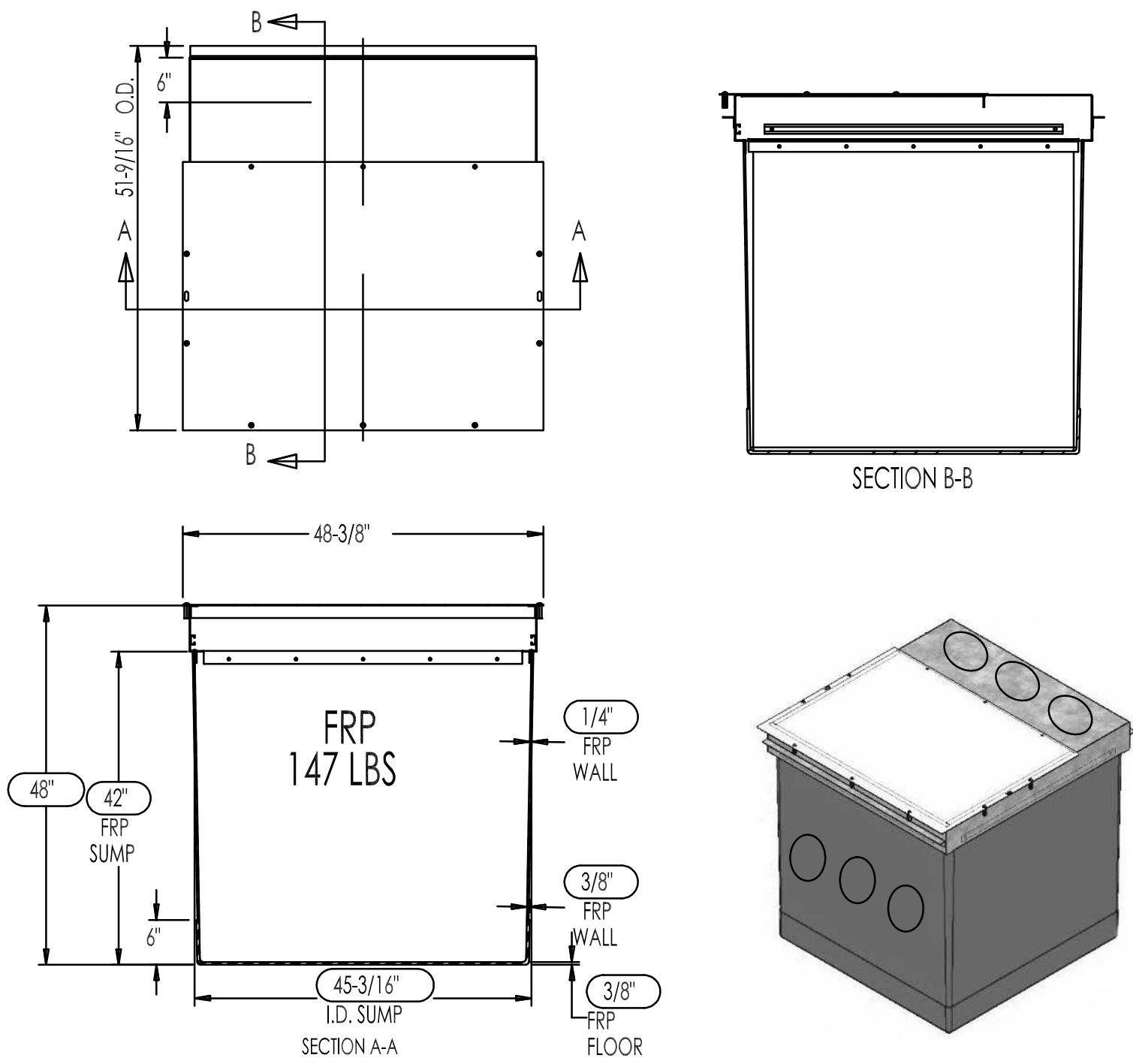
Bedding Material	Compact Proctor Density
Crushed rock or pea gravel $\frac{3}{4}$ " max. size.	Not Required
Coarse–grained sand or soil with little or no fines	75–85%
Coarse–grained sand or soil with more than 12% fines.	85–95%
Sand or gravel with more than 30% coarse–grained particles.	85–95%
Sand or gravel with less than 30% coarse–grained particles.	Greater than 95%

TABLE 4 (Recommended Bedding Materials)

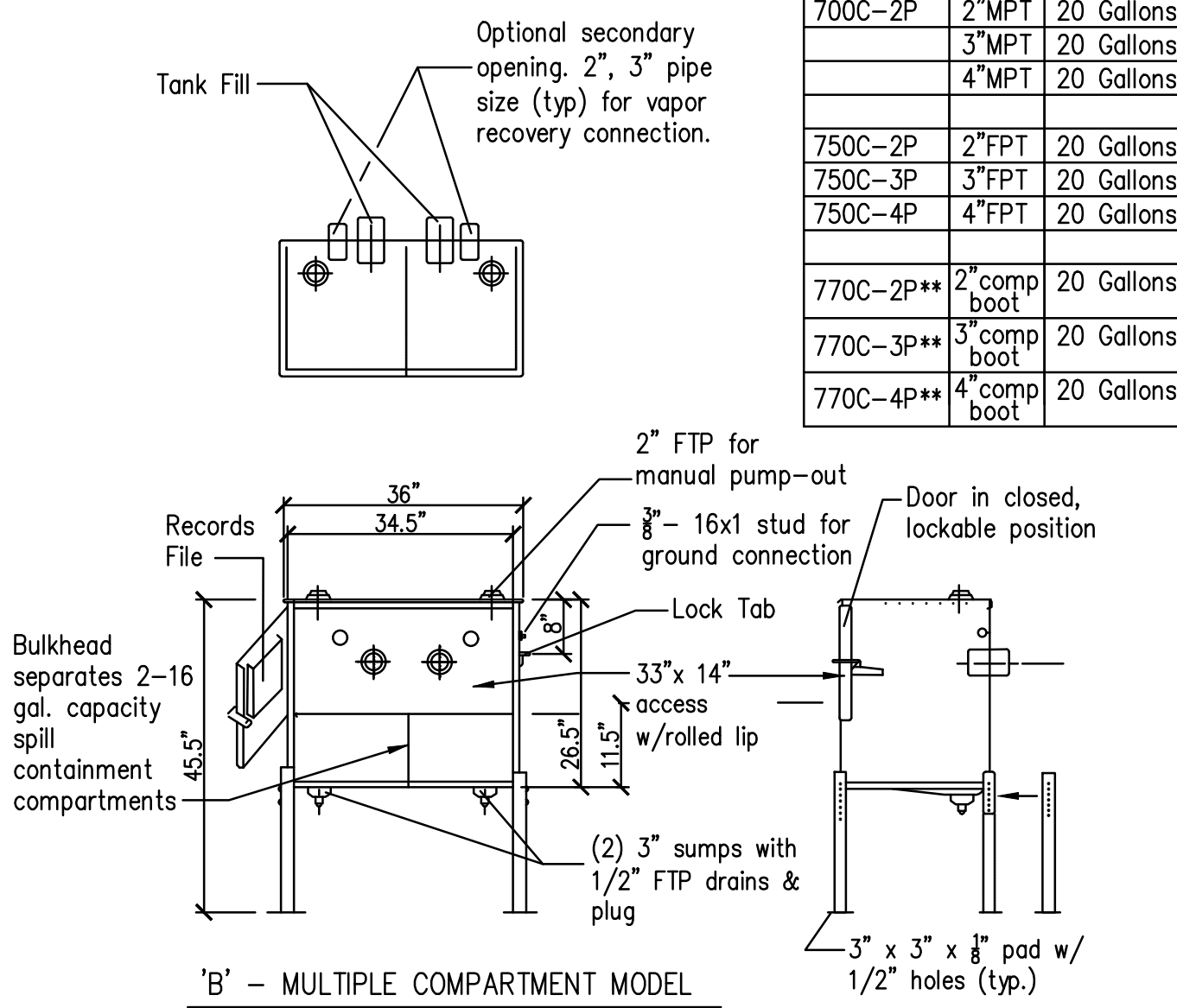
(Excerpt's from pipe installation handbook)

Bedding Requirements – Fiberglass pipe can be damaged by point contact or wea with the trench bottom and walls, improper bedding materials, or adjacent pipe. Use recommended bedding material a minimum of 6 inches thick at the bottom, sides, and top of the piping (refer to Table 4). Adjacent pipes should be spaced the greater of 6 inches or one pipe diameter. The piping can be laid directly on the trench bottom if the native soil meets the requirements of a recommended bedding material (refer to Table 4). In some situations, the trench bottom can be "scratched" such that a natural cradle of dirt is formed. Never lay fiberglass piping directly against native rock or shale. Always use dry, unfrozen bedding materials that do not contain foreign objects or debris. Never use water flood for compaction. Slurries can be used that are intended for burial of flexible piping systems. When using slurries, caremust be taken to prevent floating or deformation of the piping.

Pipe Support – Fiberglass pipe is flexible and requires the support of the bedding material to keep the pipe round in burial applications. It is very important that a recommended bedding material is properly compacted around the entire circumference of the pipe. (Refer to Table 4) Tamp the bedding material under the bottom half of the piping to prevent voids or areas of low compaction. Vibratory or similar tamping equipment can drive small stones or debris into the pipewall if they are present in the bedding material. Avoid striking the pipe with tamping equipment as the pipe may be fractured.

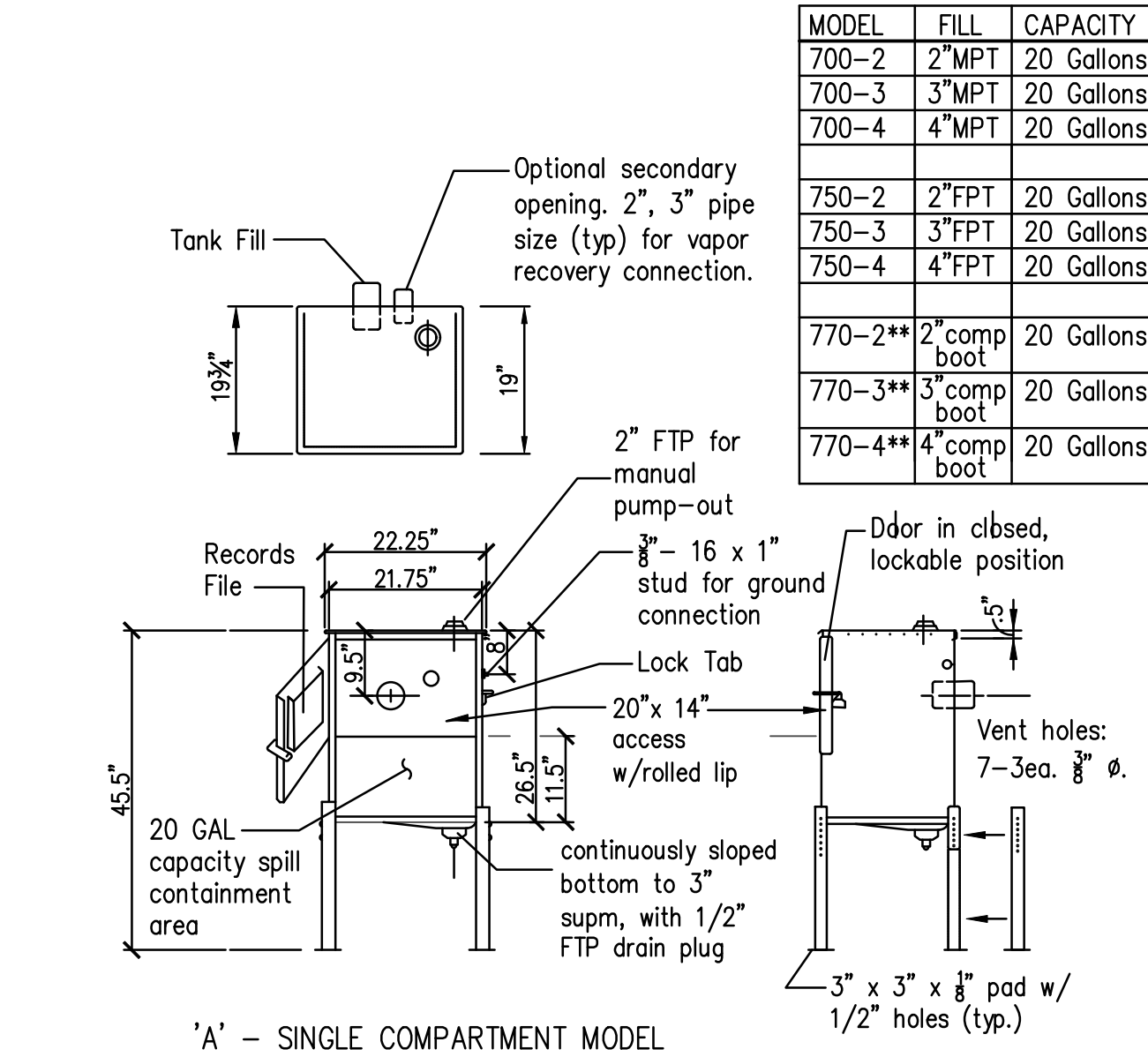


3 BRAVO AST TRANSITION SUMP B944–S48



'B' – MULTIPLE COMPARTMENT MODEL

MODEL	FILL	CAPACITY
700C–2P	2"MPT	20 Gallons
	3"MPT	20 Gallons
	4"MPT	20 Gallons
750C–2P	2"FPT	20 Gallons
750C–3P	3"FPT	20 Gallons
750C–4P	4"FPT	20 Gallons
770C–2P**	2"comp boot	20 Gallons
770C–3P**	3"comp boot	20 Gallons
770C–4P**	4"comp boot	20 Gallons



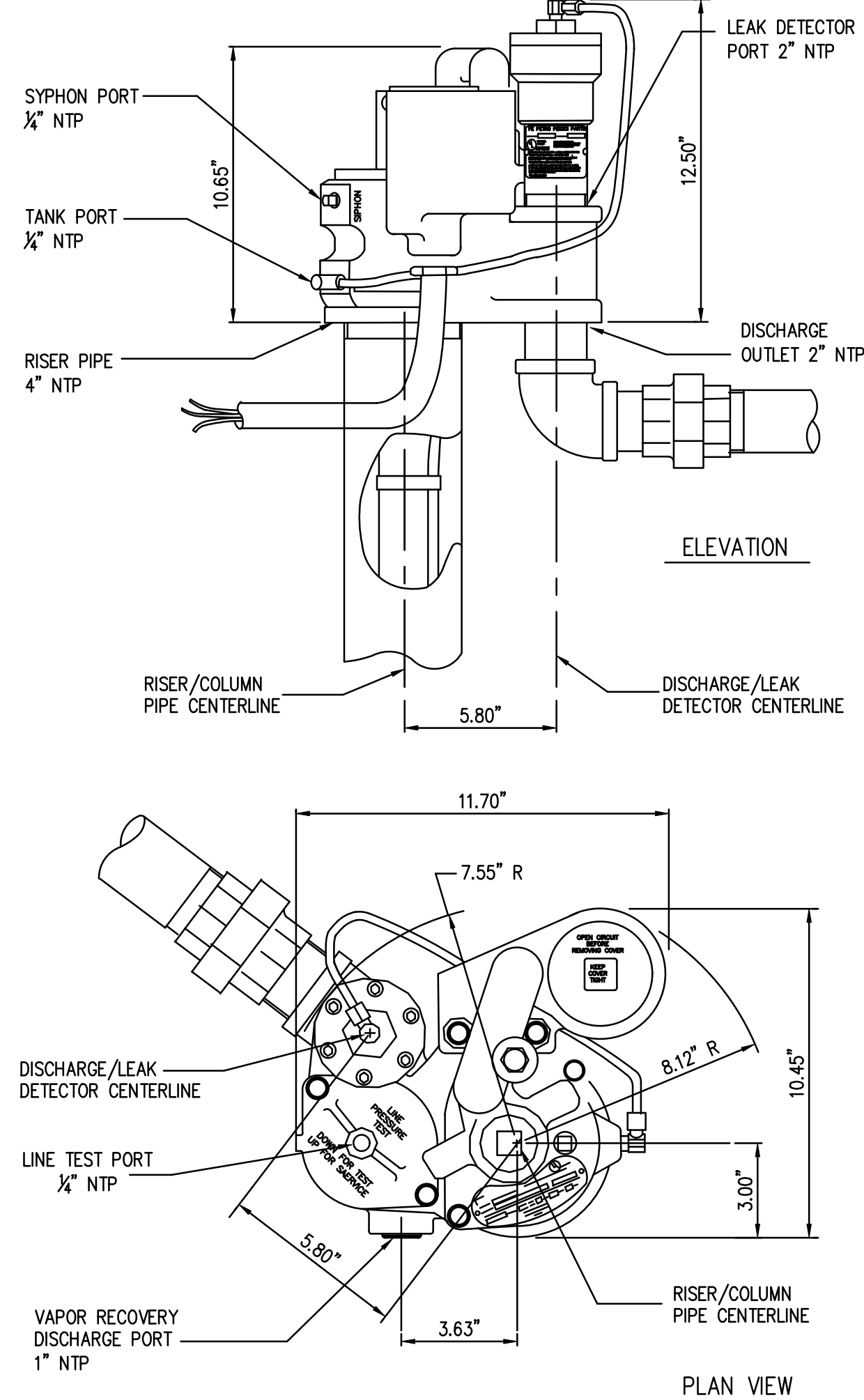
'A' – SINGLE COMPARTMENT MODEL

MODEL	FILL	CAPACITY
700–2	2"MPT	20 Gallons
700–3	3"MPT	20 Gallons
700–4	4"MPT	20 Gallons
750–2	2"FPT	20 Gallons
750–3	3"FPT	20 Gallons
750–4	4"FPT	20 Gallons
770–2**	2"comp boot	20 Gallons
770–3**	3"comp boot	20 Gallons
770–4**	4"comp boot	20 Gallons

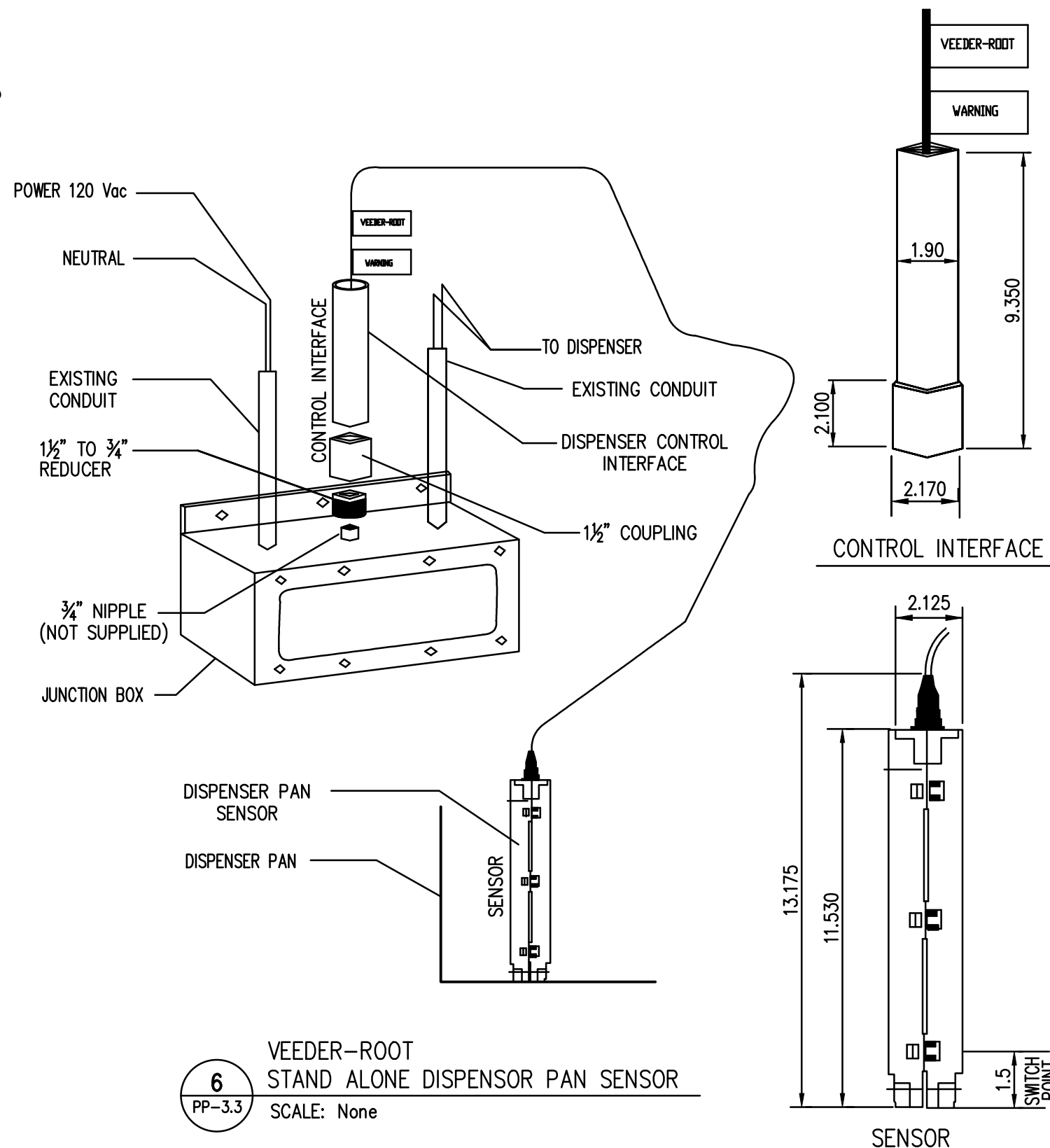
BAKER INDUSTRIES NORTHWEST
#700 SERIES SPILL CONTAINMENT UNIT

NOTE:

4 legs are adjustable for height range of approx. 34 $\frac{1}{2}$ " – 37 $\frac{1}{2}$ ". Legs attach to stubs with 2–ea. $\frac{5}{8}$ "–18 x 1" bolts and nylon nuts provided for each leg. Legs are shipped unassembled. To be installed and adjusted during installation.



5 F.E. PETRO TURBEN PUMP
PP–3.3 Scale: NONE



6 VEEDER–ROOT
STAND ALONE DISPENSOR PAN SENSOR
PP–3.3 SCALE: None

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