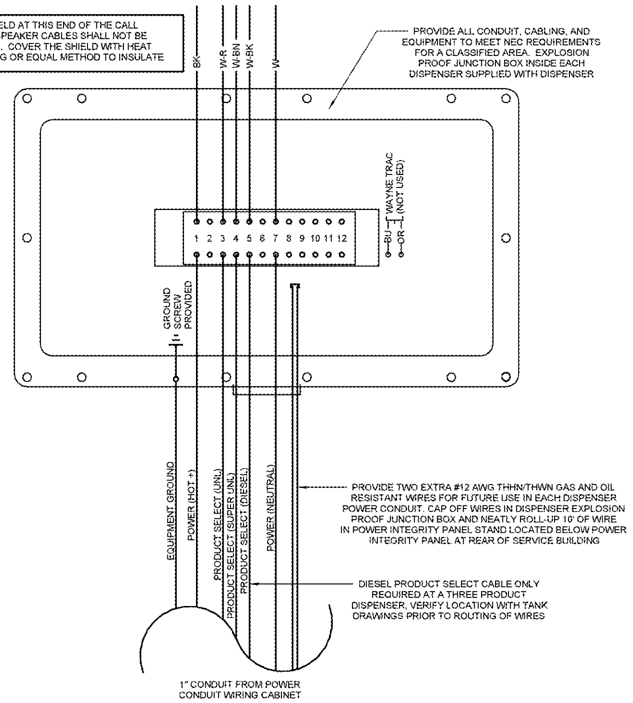
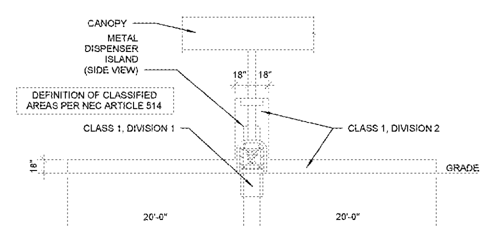


6 DISPENSER POWER TERMINATION DETAIL (IDPOS)
NTS



5 AREA CLASSIFICATION BOUNDARY
NTS

GENERAL ELECTRICAL NOTES

1. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL ASPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.

2. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.

3. COORDINATE THE ROUTING OF ALL CONDUITS TO THE SERVICE BUILDING WITH BOLLARD LOCATIONS AND CIVIL PLANS.

4. REF FSE4 FOR CONDUIT LOCATIONS INSIDE EQUIPMENT ROOM

5. DO NOT POWER SITE MONITOR PANEL AND DISPENSERS UNTIL CHECKED AND APPROVED BY AUTHORIZED SERVICE ORGANIZATION (ASO). LOCK-OUT BREAKERS FEEDING SITE MONITOR PANEL AND DISPENSERS UNTIL INSTALLATION IS APPROVED BY ASO.

6. DO NOT SCHEDULE INSPECTION VISIT BY ASO UNTIL ALL THE FOLLOWING ARE MET:

A. PERMANENT POWER IS ON SITE (NO GENERATORS).

B. ALL WIRING, INCLUDING LOW VOLTAGE, IS TERMINATED TO SITE MONITOR PANEL AND DISPENSERS.

C. BREAKERS FEEDING SITE MONI[illegible]ANEL AN[illegible] DISPE[illegible]RS ARE LOCKED-OU[illegible]

FAILURE TO COMPLETE A[illegible] THE STA[illegible] CRITER[illegible] PRIOR TO THE SCHEDU[illegible] VISIT WIL[illegible] REQUIRE MONETARY COM[illegible]ENSATION[illegible] THE ASO'S [illegible]STED TIME ON-SITE.

7. MINIMUM ALLOWE[illegible] [illegible]ONDUCTOR[illegible] SHALL [illegible] #12 AWG THHN UNLESS NO[illegible] OTHERW[illegible] ON THE DRAWINGS. ALL FUELIN[illegible] [illegible]ATION CO[illegible]TORS SHALL BE STRANDED.

8. INSTALL A PULL WIRE IN [illegible] EMPTY RACEWAY THAT IS LEFT FOR INSTA[illegible]ATION OF CONDUCTORS OR CABLES UNDER OTHER DIV[illegible]ONS OR CONTRACTS. USE [illegible]LYPROPYLENE [illegible] MONOFILAMENT PLASTIC LINE WITH [illegible] LESS TH[illegible]200-LB TENSILE STRENGTH. LEAVE AT [illegible] 24 [illegible]ES OF SLACK AT EACH END OF PULL WIRE.

9. [illegible]D NONMETALLIC CONDUIT (RNC) IS ALLOWED FOR [illegible]DERGROUND RUNS IF CONDUIT IS BURIED AT A MINIMUM OF 2' WITH THE EXCEPTION OF THE LAST 2' OF THE UNDERGROUND RUN WHERE AHJ ALLOWS.

10. WHERE A CONDUIT ENTERS A BOX, FITTING OR OTHER ENCLOSURE PROVIDE A BUSHING TO PROTECT THE WIRE FROM ABRASION UNLESS THE DESIGN OF THE BOX, FITTING OR ENCLOSURE IS SUCH AS TO AFFORD EQUIVALENT PROTECTION.

11. GRC SHALL BE "HEAVY-WALLED RIGID HOT-DIP GALVANIZED" CONDUIT.

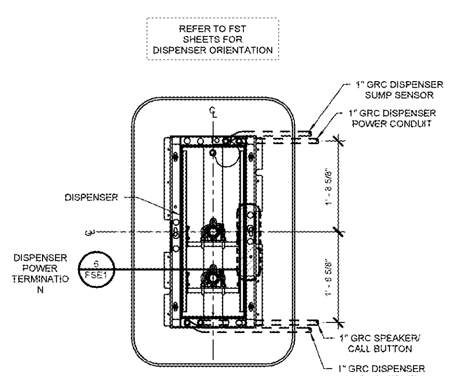
12. CONTRACTOR IS RESPONSIBLE FOR ALL CABLING INSTALLATION AS REQUIRED FOR A COMPLETE AND OPERABLE FUEL STATION, UNLESS NOTED OTHERWISE ON THE PLANS.

13. NO FLEXIBLE CONDUIT SHALL BE INSTALLED WITHIN THE DISPENSER CABINET OR IN THE TURBINE SUBMERSIBLE PUMPS.

14. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE PRIMARY BUILDING. REFER TO THE PRIMARY BUILDING PLANS FOR APPLICABLE NOTES, SCHEDULES AND DETAILS.

KEYNOTES

16.800	CLASSIFIED AREA AS DEFINED BY NEC ARTICLE 514. CLASSIFIED AREA 1, DIVISION 2: WITHIN 18" HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM THE DISPENSER ENCLOSURE OR THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID-HANDLING COMPONENTS, ALSO UP TO 18" ABOVE GRADE LEVEL WITHIN 20 FT HORIZONTALLY OF ANY EDGE OF ENCLOSURE. CLASSIFIED AREA 1, DIVISION 1: ANY PIT OR BOX BELOW GRADE LEVEL. REF 5-FSE1.
16.810	PROVIDE 1" GRC TO POWER CONDUIT WIRING CABINET, PROVIDE SEAL-OFF AT POWER CONDUIT WIRING CABINET AND TERMINATE CONDUCTORS AT LIGHTING CONTACTORS, AS APPLICABLE. REF 4-FSE3 FOR CONTACTOR SCHEMATIC. SEAL AFTER CIRCUIT HAS BEEN PULLED, TESTED AND IS FUNCTIONING PROPERLY.
16.811	1 - 1" CONDUIT WITH SEAL-O[illegible] INSIDE CO[illegible] BY CANOPY MANUFACTURER. REF TO CANO[illegible] MANUFACTURER'S DRAWING FOR EXACT LOCATION OF [illegible]. SEA[illegible] AFTER CIRCUITS HAVE BEEN [illegible] TESTED [illegible] ARE FUNCTION[illegible]G PROPERLY.
16.813	ROUTE C[illegible]OPY LIGHT AND SIG[illegible] [illegible]TRY THRU CO[illegible]UITS AT COLUMNS.
16.824	TWO PRO[illegible]CT DISPENSER: PULL (1) HOT CONDUCT[illegible] (1) NEUTRAL, [illegible] EQUIPMENT GROUND, (2[illegible] [illegible]DUCT SE[illegible]CT WIRES, AND (2) SPARES. ALL [illegible]/THWN GAS AND OIL RESISTANT IN A [illegible] FROM POWER INTEGRITY PANEL WITH SEAL-OFFS AT POINT OF EMERGENCE FROM DISPENSER SUMP AND AT POWER [illegible]NDUIT WIRING CABINET LOCATED AT REAR OF SERVICE BUILDING, REF 1-FSE3.
16.825	THREE PRODUCT DISPENSER: PULL (1) HOT CONDUCTOR, (1) NEUTRAL, (1) EQUIPMENT GROUND, (3) PRODUCT SELECT WIRES, AND (2) SPARES. ALL #12 AWG THHN/THWN GAS AND OIL RESISTANT IN A 1" GRC FROM POWER INTEGRITY PANEL WITH SEAL-OFFS AT POINT OF EMERGENCE FROM DISPENSER SUMP AND AT POWER CONDUIT WIRING CABINET LOCATED AT REAR OF SERVICE BUILDING, REF 1-FSE3.
16.840	PROVIDE 1" GRC FROM SECURITY CAMERA IN CANOPY DECK TO DATA CONDUIT WIRING CABINET, WITH SEAL-OFFS AT EACH END. CONTRACTOR TO MAKE CONNECTION AT EACH COLUMN BASE AND CONTINUE CONDUIT FROM TOP OF COLUMN TO JUNCTION BOX AT DECK PAN. SECURITY CAMERA CABLING AND EQUIPMENT SUPPLIED AND INSTALLED BY OWNER. REF 1-FSE1 FOR EXACT CANOPY COLUMN LOCATIONS.
16.845	INSTALL ETHERNET CABLE BELDEN #7931A CAT6 PAIRED CABLE IN 1" GRC FROM WIREWAY BELOW GAS SWITCH TO EACH DISPENSER AND 3/4" GRC FROM WIREWAY BELOW GAS SWITCH TO THE SITE MONITORING SYSTEM. INSTALL "TIP" AT EACH END OF CAT6 CABLES THEN MEGGER EACH CABLE FOR CONDUCTIVITY. AT EACH DISPENSER, ROUTE THE CAT6 CABLE TO THE HEAD OF THE DISPENSER VIA THE MANUFACTURER SUPPLIED CONDUIT STUBBED OUT FROM DISPENSER HEAD AND CONNECT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL AND CONNECT TWO CAT6 CABLES FROM THE GAS SWITCH TO THE SITE MONITORING SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE CONNECTIONS AT THE GAS SWITCH FOR EACH CABLE FROM DISPENSERS AND SITE MONITORING SYSTEM. REF TO DISPENSER AND SITE CONTROLLER WIRING DIAGRAM AND GAS SWITCH DETAIL ON THIS SHEET
16.847	PROVIDE 1" GRC TO SUMP FOR SUMP SENSOR FROM SITE MONITOR PANEL PROVIDE SEAL-OFFS AT EACH END. ROUTE (1) BELDEN #88760 CABLE. REF 7-FSE5.



4 TWO PRODUCT DISPENSER PLAN
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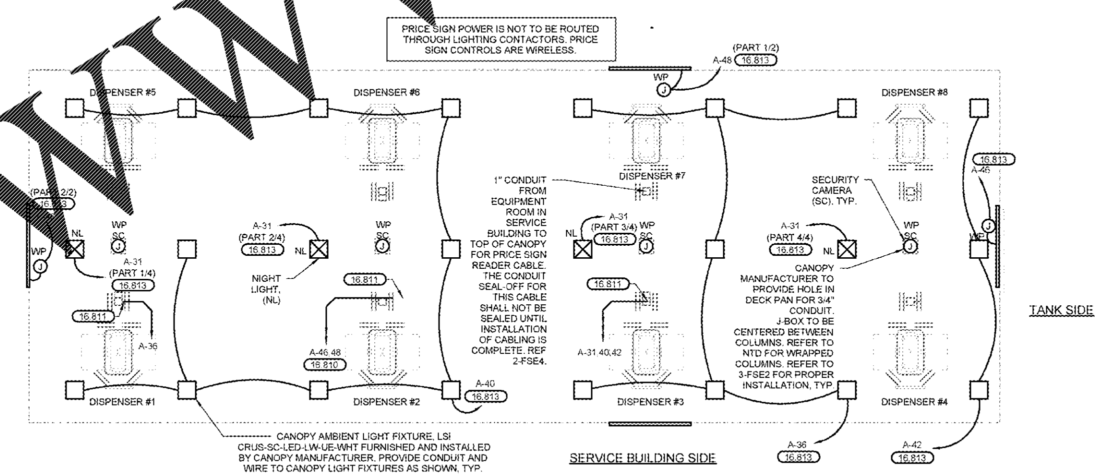
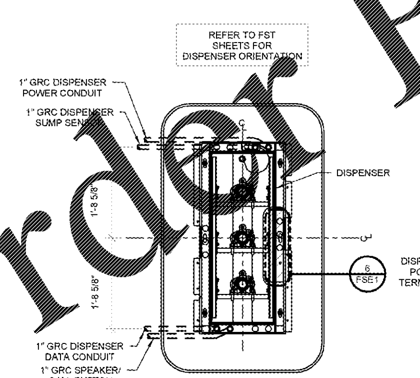


2 CANOPY LIGHTING PLAN
1/8" = 1'-0"



3 THREE PRODUCT DISPENSER PLAN
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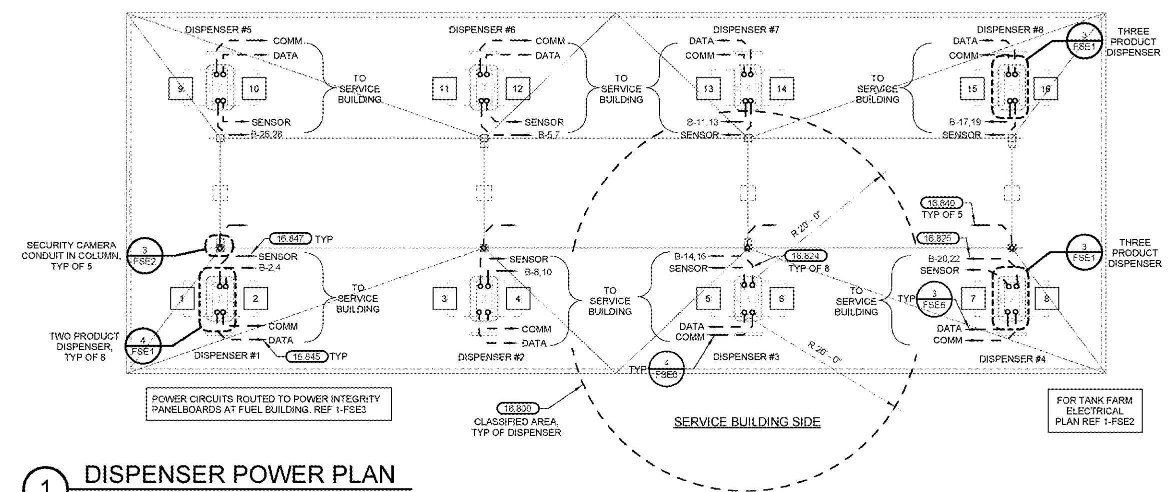

1 DISPENSER POWER PLAN
1/8" = 1'-0"

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