



1. ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF.
2. ALL FUEL ISULAND CONDUIT SHALL BE ROUTED TO THE RESPECTIVE PANELS AND / OR TO THE FUEL CONTROL PANELS LOCATED IN THE MANAGER'S OFFICE / STORAGE ROOM.
3. PROVIDE EMPTY CONDUITS WITH PULL STRING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL UTILITY COMPANY FOR THE EXACT LOCATION OF ALL PRIMARY SERVICE EQUIPMENT, TRENCH LOCATIONS, TRANSFORMER LOCATION, METER LOCATION, ETC.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SECONDARY CONDUITS, POWER TRENCHING, BACKFILL, CONCRETE PADS FOR TRANSFORMERS AND SERVICE EQUIPMENT AND CONDUIT STUBS INTO TRENCH AS REQUIRED BY ELECTRICAL UTILITY COMPANY SPECIFICATIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE UTILITY COMPANY FOR THE EXACT LOCATION OF ALL PRIMARY SERVICE EQUIPMENT, SERVICE EQUIPMENT, TRENCH LOCATIONS, ETC.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE TRENCHING, BACKFILL AND CONDUIT STUBS INTO TRENCH AS REQUIRED BY TELEPHONE UTILITY COMPANY SPECIFICATIONS.
7. ALL WIRING OUTSIDE SHALL BE A MINIMUM OF #10 CORDER WITH TYPE XHHW-2 INSULATION FOR UNDERGROUND CIRCUIT RUN IN PVC. PROVIDE A #10 COPPER BOND IN ADDITION TO CIRCUIT CONDUCTORS
8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND COMPLIANCE WITH THE UTILITY COMPANIES' REQUIREMENTS. WITHIN TWO WEEKS AFTER AWARD OF CONTRACT, SUBMIT (2) COMPLETE SETS OF PLANS, INCLUDING PLOT OF SURVEY, TO UTILITY COMPANY FOR COORDINATION. ROUTING OF INCOMING POWER AND TELEPHONE SERVICE SHOWN ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL POWER, CONDUIT, TRENCH AND PACE REQUIREMENTS SHALL BE AS SPECIFIED BY THE UTILITY COMPANY. CONFIRM ALL REQUIREMENTS WITH UTILITIES PRIOR TO INSTALLATION..
9. ALL UNDERGROUND CABLE, PIPE AND CONDUITS SHALL BE DETECTABLE (METALLIC) OR HAVE A DETECTABLE UNDERGROUND DEVICE INSTALLED PER LOCAL CODES.

- 1 SITE LIGHTING CIRCUITS SHALL BE ROUTED VIA 30A ELECTRICALLY HEATED LIGHTING CONTACTORS CONTROLLED BY THE EPO. SWITCHES AND LINE SPEAKERS, MAKE SWITCHES LOCATED AT THE FUEL CANOPY AND STORE ON THE SITE. REFERENCE DETAIL 2/E6.0.
- 2 PROVIDE SEAL-OFF FITTINGS AT EACH END OF CONDUIT IN CONJUNCTION WITH / G.V.P. DISPENSER MANUAL. REFERENCE DETAIL 4/E1.1
- 3 PROVIDE AND INSTALL WP JUNCTION BOXES IN CONJUNCTION WITH SPEAKERS. PROVIDE SECURE CONNECTIONS TO CONDUITS PROVIDED IN CANOPY COLUMN.
- 4 CANOPY EYEBROW LED STRIP LIGHTS. ONE DOUBLE KWIK BOX POWER CONNECTION PER EACH GROUP OF FOUR SECTIONS.
- 5 WP JUNCTION BOX FOR COMPLETE CONNECTION OF CANOPY SIGN. VERIFY EXACT LOCATION IN FIELD.
- 6 PROVIDE WEATHERPROOF DISCONNECT SWITCH FOR WATER / AIR FILL STATION. VERIFY EXACT LOCATION IN FIELD, AND VERIFY REQUIREMENTS PRIOR TO ROUGH-IN.
- 7 PROVIDE WEATHERPROOF DISCONNECT SWITCH. COORDINATE EXACT CONNECTIONS AND WIRING REQUIREMENTS WITH SIGN CONTRACTOR AND FINAL SECTION PRIOR TO INSTALLATION. PROVIDE (2) 1" CONDUITS, ONE FOR POWER AND ONE FOR PHONE AND COMMUNICATION.
- 8 HEAT TRACE TO BE PROVIDED FOR BACKFLOW PREVENTER IN COLD REGION.
- 9 PROVIDE HOUSEKEEPING PAD FOR POWER CO. PAD MOUNTED TRANSFORMER PER UTILITY COMPANY REQUIREMENTS.
- 10 REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT SIZES. VERIFY WITH POWER COMPANY.
- 11 FUEL DISPENSER CONDUITS FOR POWER, INTERCOM, CRIND DATA AND SENSORS. REFERENCE DETAIL 5E1.1, 6/E1.1 AND FUEL SYSTEM VENDOR DRAWINGS FOR CONDUIT SIZES.
- 12 (1) 3/4" CONDUIT AND (3) 1" CONDUITS FROM ELECTRICAL PANELS TO CLOSEST CANOPY MANUAL. ROUTE CONDUITS UP TO CANOPY DECK FOR SPEAKER/SECURITY CAMERA CONNECTIONS. PROVIDE PULL STITCHES IN ALL CONDUITS. REFERENCE DETAIL 5/E1.1 AND VENDOR DRAWINGS FOR CONDUIT ENTRANCE LOCATIONS IN PANELS.
- 13 CLASS 1 DIVISION 2 HAZARDOUS AREA OUTDOOR DISPENSING DEVICE. UP TO 18" OF DISPENSER ENCLOSURE. EXTENDING 24 FT. HORIZONTALLY IN EITHER DIRECTION FROM DISPENSER ENCLOSURE. PER NEC TABLE 514.3(B)(1).
- 14 ALL WIRING IN THIS AREA INCLUDING BELOW GRADE SHALL BE INSTALLED IN RIGID CONDUIT PER NEC TABLE 514.8. HOWEVER, PER NEC EXCEPTION 1, 1/2" RIGID CONDUIT (PVC) HAVING A MINIMUM OF 24" OF GROUND COVER IS ALLOWED. IN ADDITION, THREADED RIGID METAL CONDUIT OR THREADED STEEL INTERMEDIATE METAL CONDUIT SHALL BE USED FOR THE LAST 2 FEET OF THE UNDERGROUND RUN TO EMERGENCE OR TO THE POINT OF CONNECTION TO THE ABOVE GROUND RACEWAY, AND AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED. PROVIDE ALL EXPLOSION PROOF FITTINGS AND SEALS NECESSARY TO COMPLETE CONDUIT SYSTEMS. NO SUBSTITUTIONS SHALL BE MADE UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE EXPLOSION PROOF JUNCTION BOXES (GROUSE HINDS) MODEL GUP215 WITH 0302 "O" RING OR OWNER APPROVED EQUAL.
- 15 UTILITY SERVICE ENTRANCE EQUIPMENT PER UTILITY REQUIREMENTS.
- 16 (2) 4" EMPTY CONDUITS FOR TELEPHONE SERVICE. VERIFY EXACT QUANTITY AND SIZE WITH SERVING TO THE DISCONNECT.
- 17 STORE ELECTRICIAN SHALL ROUTE IN CONDUIT AT ELECTRICAL ROOM AND RUN TO PETROLEUM ELECTRICIAN'S POINT OF INTERSECTION 30 FEET FROM FRONT OF STORE. PETROLEUM ELECTRICIAN SHALL INTERCEPT CONDUIT AND COMPLETE RUN TO ELECTRICAL ROOM AND FUEL TANKS. PETROLEUM ELECTRICIAN SHALL FURNISH AND INSTALL ALL WIRINGS. REFERENCE FUEL SYSTEM VENDOR DRAWINGS FOR ALL REQUIRED CONDUIT, WIRE AND CIRCUITRY.
- 18 CANOPY COLUMN GROUNDING: REFERENCE DETAIL 51/OE1
- 19 CLASS 1 DIVISION 1 HAZARDOUS AREA: UNDERGROUND TANK VENT: WITHIN 5 FT. OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS. PER NEC TABLE 514.3(B)(1).
- 20 CLASS 1 DIVISION 2 HAZARDOUS AREA: UNDERGROUND TANK VENT: BETWEEN 5 FT. AND 10 FT. OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS. PER NEC TABLE 514.3(B)(1).
- 21 VENT RISERS FROM TANKS.
- 22 3/4" CONDUIT FOR POWER/STP CONTROL. REFERENCE DETAIL 1/E1/0 FOR POWER CIRCUIT DESIGNATION, CONDUIT AND WIRE SIZE. PROVIDE #412 THWING FOR STP AUTHORIZATION. VERIFY STP AUTHORIZATION CONDUCTOR QUANTITY, SIZE AND TYPE PER DISPENSER WITH FUEL SYSTEM VENDOR DRAWINGS.
- 23 3/4" CONDUIT FOR TANK MOTION SENSORS. INSTALL CONDUIT TO PUMP AND INTERSENSIT. SENSORS AT TANK FUEL SYSTEM VENDOR DRAWINGS FOR CONDUCTORS TO BE INSTALLED TO SENSORS.
- 24 TANK FILL STATION.
- 25 CLASS 1 DIVISION 2 HAZARDOUS AREA: UNDERGROUND TANK FILL OPENING: UP TO 18" ABOVE GRADE LEVEL. EXTENDING 5 FT. HORIZONTALLY IN ALL DIRECTIONS FROM ANY LOOSE-FILL CONNECTION. PER NEC TABLE 514.3(B)(1).
- 26 CLASS 1 DIVISION 1 HAZARDOUS AREA: UNDERGROUND TANK-INSIDE TANK- ENTIRE TANK VOLUME. PER NEC TABLE 514.3(B)(1) WITHIN ANY PIT OR BOX BELOW GRADE LEVEL. PER NEC TABLE 514.3(B)(1).
- 27 "EMERGENCY POWER OFF" SWITCH PER NEC TABLE 514.11. PROVIDE SIGNAGE PER IFC SECTION 2204, 2205 (VERIFY EXACT LOCATION OF "EMERGENCY POWER OFF" SWITCH). PROVIDE ROUTE (1) 3/4" EMPTY CONDUIT WITH PULL STRING FROM EPO SWITCH TO SWITCHGEAR PANEL DP FUEL CONTROLS SECTION. REFERENCE ELECTRICAL VENDOR DRAWINGS FOR EXACT PANEL SECTION CONDUIT STUB UP LOCATION.

**RDC-
S111**
INC.

20365 Exchange Street, Suite 220
Ashburn, VA 20147
703.668.0086
rdcollaborative.com

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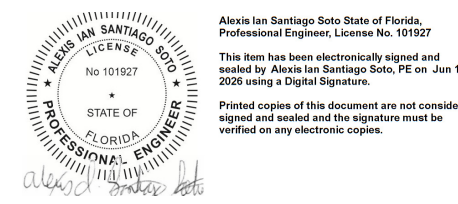
PROFESSIONAL

Alexis I. Santiago Soto
teamofchoice.com P.E.

SUITE 4065 479-636-5004
1805 N 2ND ST JOB NO.: 040013.031
ROGERS, AR 72756 DESIGNED BY: BYA

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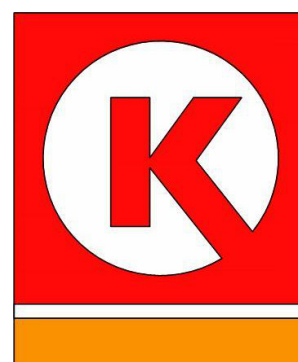
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LEESBURG, FL 34788

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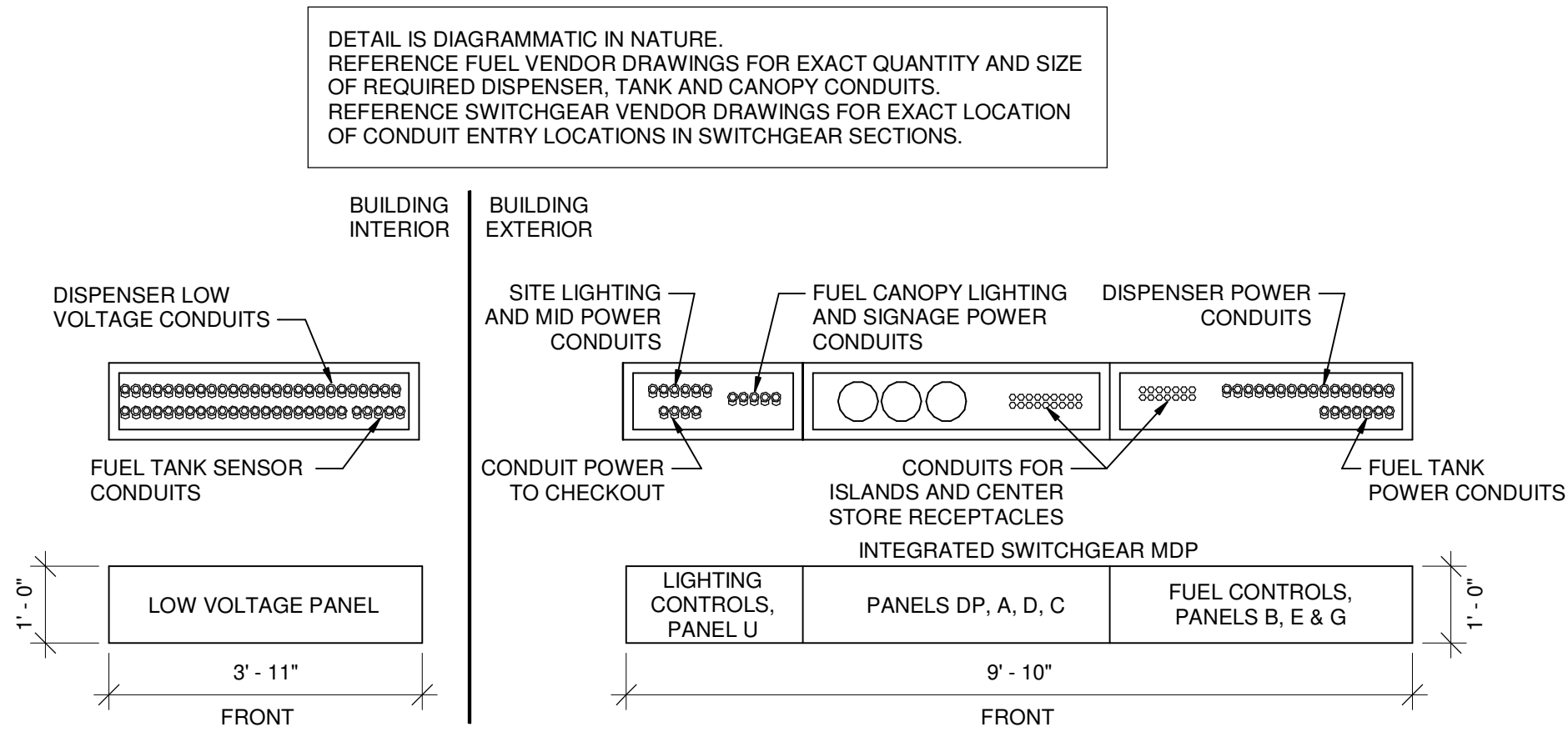


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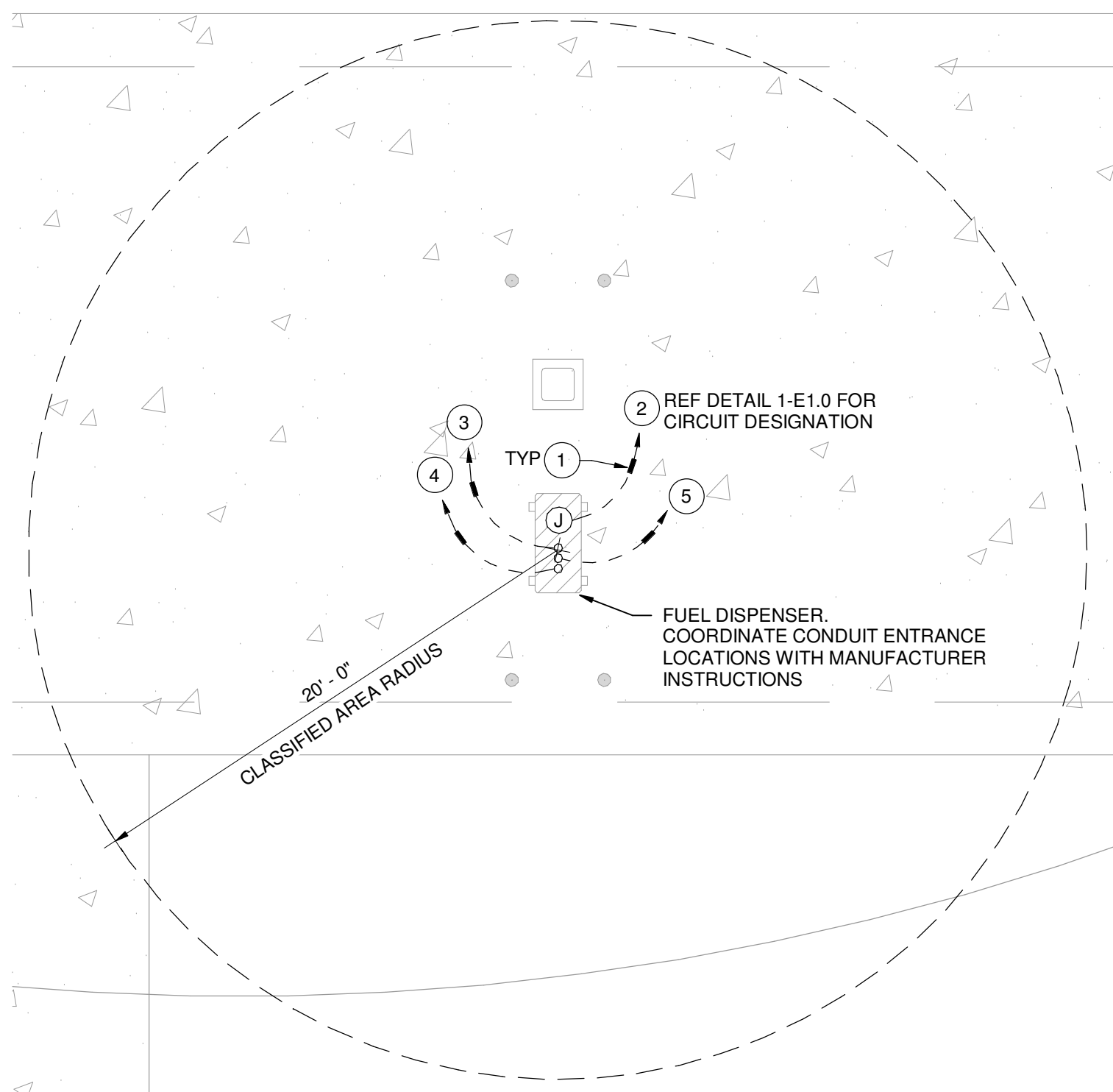
ELECTRICAL SITE PLANS

E1.0



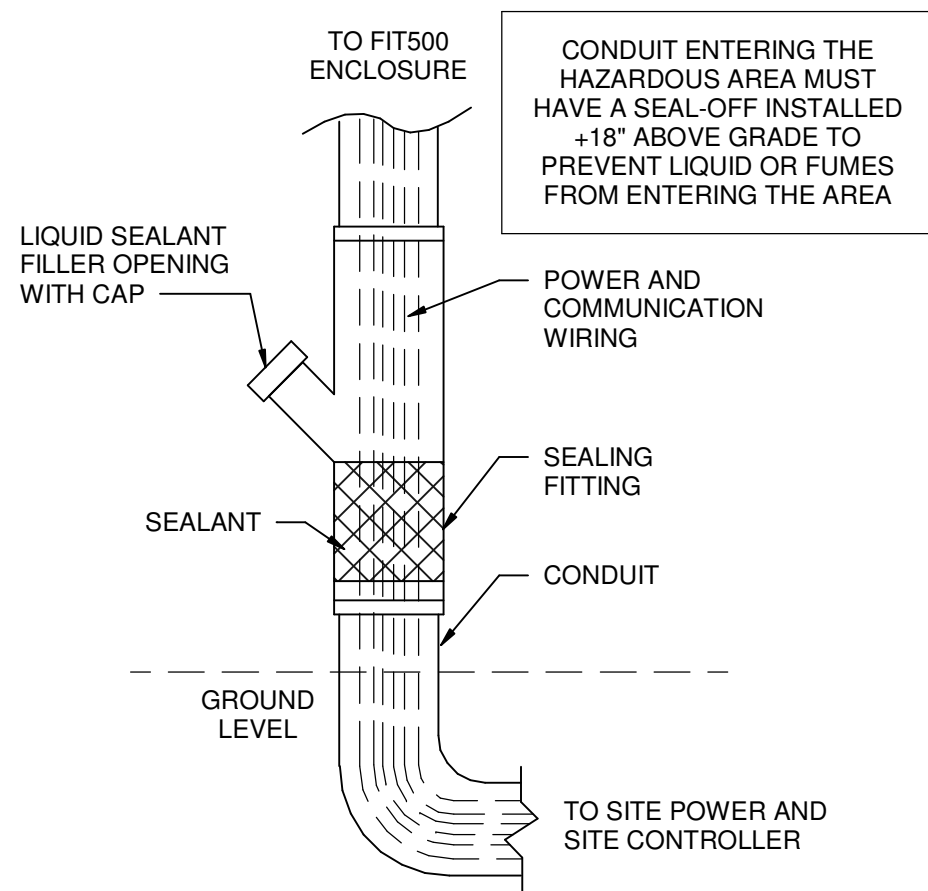
SITE FUEL EQUIPMENT CONDUIT ROUGH-IN | 6

1/2" = 1'-0"



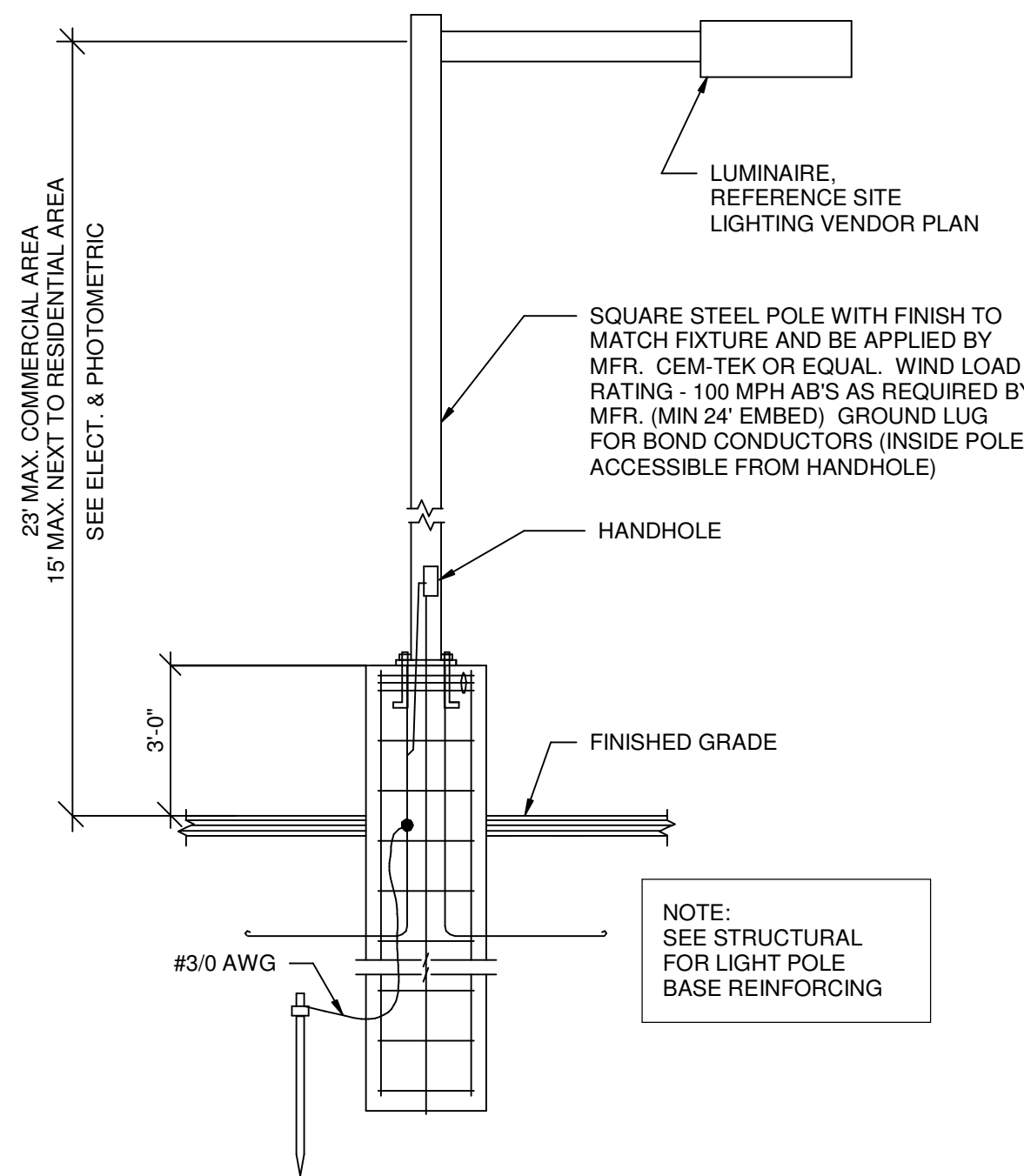
FUEL DISPENSER ENLARGED | 5

3/16" = 1'-0"



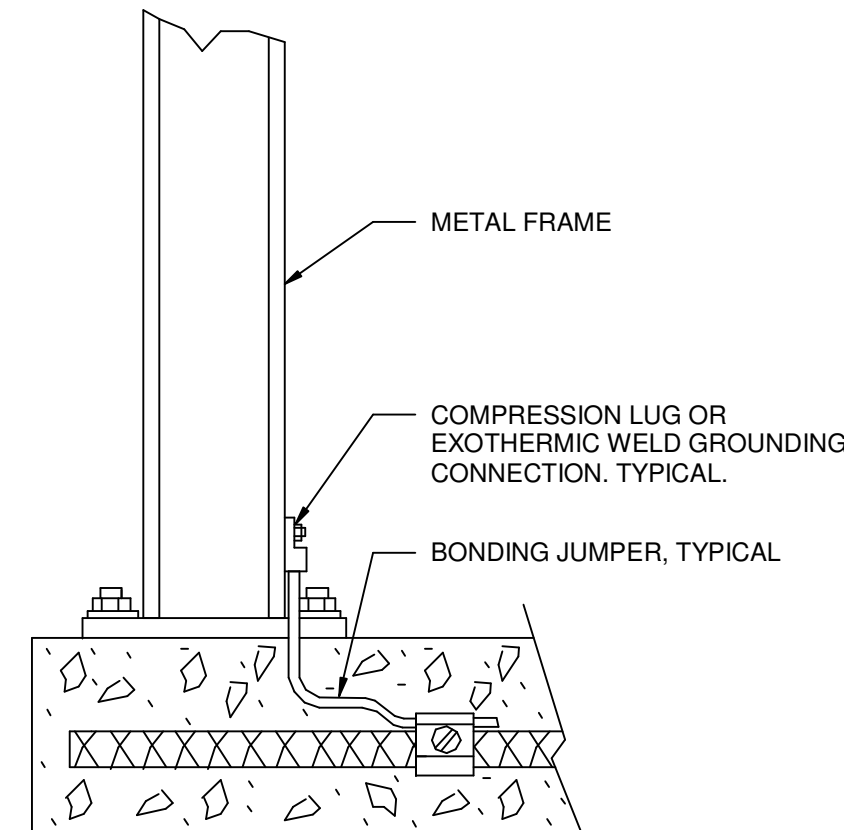
SEAL OFF DETAIL | 4

N.T.S.



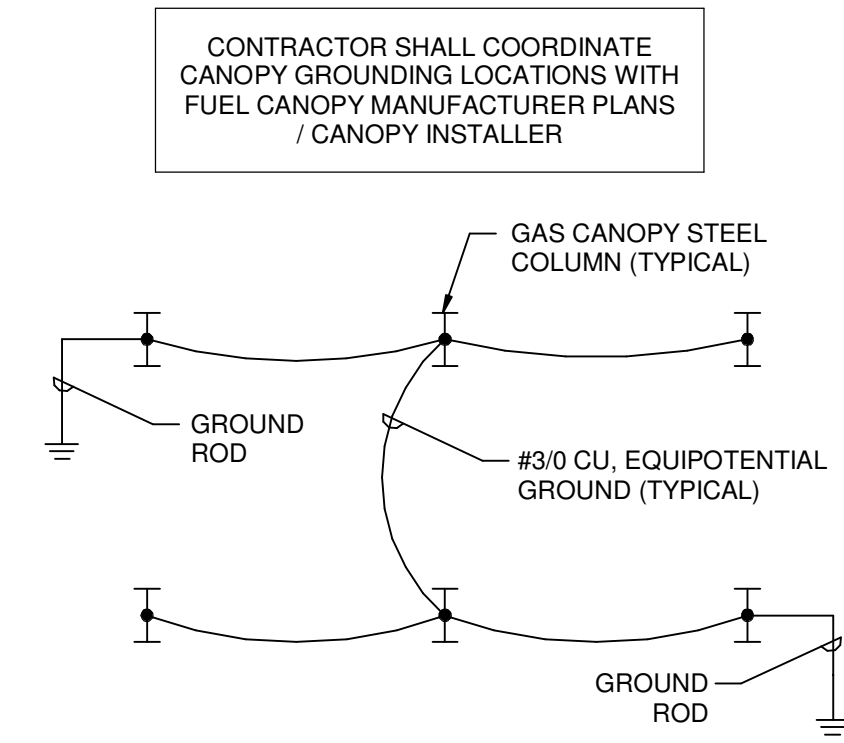
LIGHT POLE BASE | 3

N.T.S.



CANOPY GROUNDING | 2

N.T.S.



CANOPY GROUNDING DETAIL | 1

N.T.S.

KEYNOTES

- 1 PROVIDE SEAL-OFF FITTINGS AT EACH END OF CONDUIT IN CONJUNCTION WITH / G.V.R. DISPENSER MANUAL. REFERENCE DETAIL 4/E1.1.
- 2 3/4" CONDUIT FOR POWER/STP CONTROL. REFERENCE DETAIL 1/E1.0 FOR POWER CIRCUIT DESIGNATION, CONDUIT AND WIRE SIZE. PROVIDE 4#12 THWN2 FOR STP AUTHORIZATION. VERIFY STP AUTHORIZATION CONDUCTOR QUANTITY, SIZE AND TYPE PER DISPENSER WITH FUEL VENDOR DRAWINGS.
- 3 3/4" CONDUIT FOR DISPENSER MONITORING SENSOR IN DISPENSER SUMP. REFERENCE FUEL SYSTEM VENDOR DRAWINGS FOR QUANTITY AND TYPE OF CONDUCTORS TO BE INSTALLED.
- 4 3/4" CONDUIT TO SWITCHGEAR LOW VOLTAGE SECTION FOR DISPENSER INTERCOM. REFERENCE FUEL SYSTEM VENDOR DRAWINGS FOR QUANTITY AND TYPE OF CONDUCTORS TO BE INSTALLED PER DISPENSER.
- 5 3/4" CONDUIT FOR CRIND DATA. REFERENCE FUEL SYSTEM VENDOR DRAWINGS FOR QUANTITY AND TYPE OF CONDUCTORS TO BE INSTALLED PER DISPENSER.

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20365 Exchange Street, Suite 220
Ashburn, VA 20147
703.668.0086
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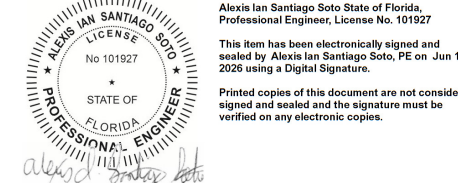
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Alexis I. Santiago Soto
P.E.

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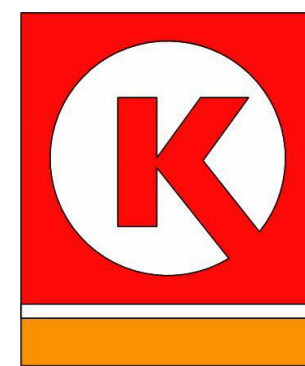
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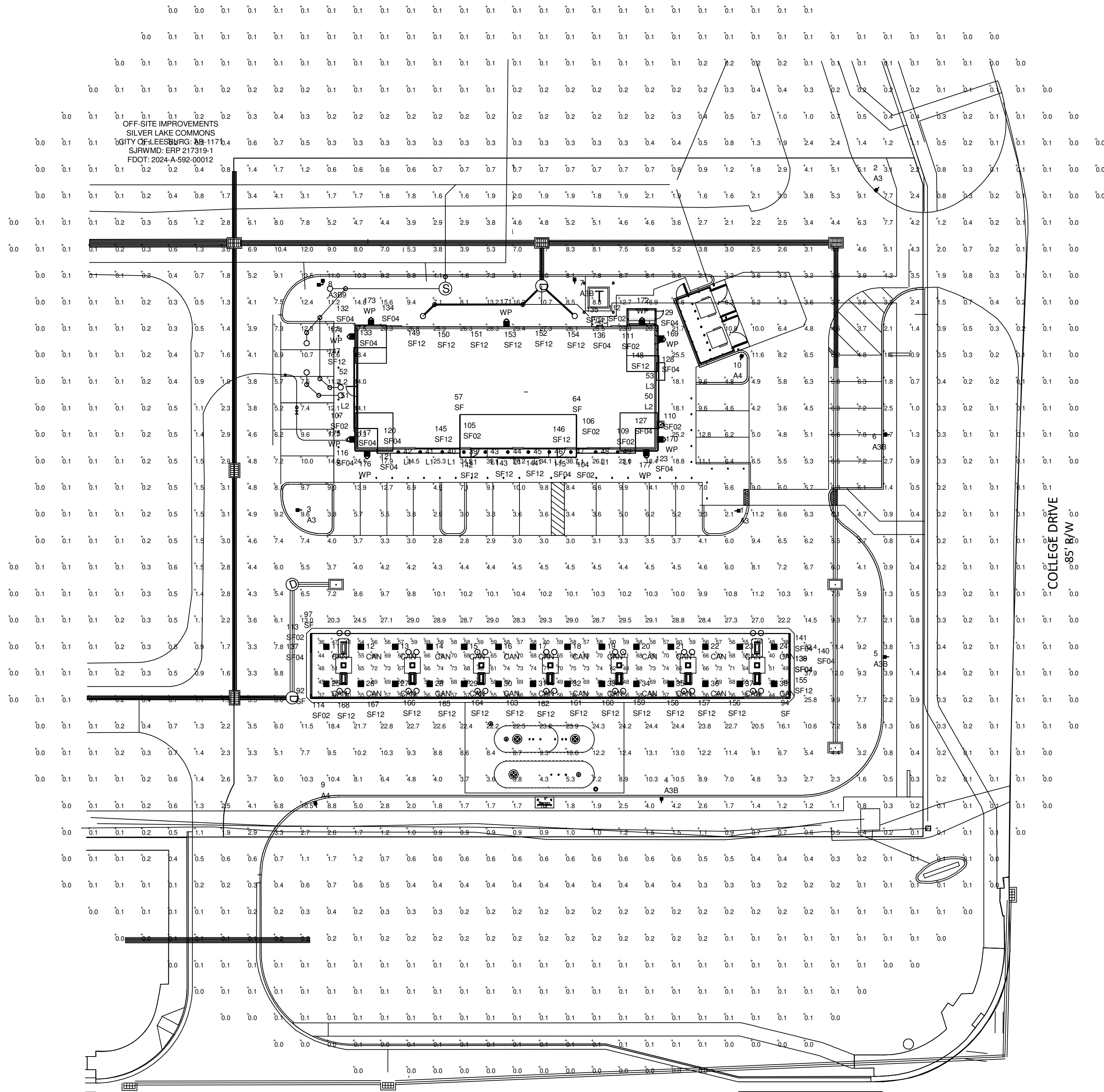


CIRCLE K STORES,

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ELECTRICAL SITE PLAN DETAILS

E1.1



STATE ROAD NO. 500 (US HIGHWAY 441)
(214' WIDE PUBLIC RIGHT OF WAY
PER FDOT R/W MAP, SR 500, SECTION 11010-2568)

THIS SITE IS LOCATED IN A REGION WHERE LIGHTING
IS REGULATED BY LOCAL ORDINANCES

NOTE:
- AREA LIGHTS ON NEW 15 FT. POLES MOUNTED ON 3 FT. CONCRETE BASES
- FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES
UNLESS NOTED OTHERWISE.

LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
1-3	A3	18
4-7	A3B	18
8	A3B9	18
9-10	A4	18
11-38	CAN	15.5
39-49	L1	12
50-52	L2	12
53	L3	12
54-66	SF	22
67-81	SF	20.5
82-103	SF	18.5
104-106	SF02	22
107-110	SF02	20.5
111-114	SF02	18.5
115	SF04	22
116-134	SF04	20.5
135-141	SF04	18.5
142-146	SF12	22
147-148	SF12	20.5
149-168	SF12	18.5
169-177	WP	14.5

CALCULATION SUMMARY					
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED AREA	8.58	37.9	2.1	4.09	18.05
UNDEFINED	1.51	39.1	0.0	N.A.	N.A.
UNDER CANOPY	59.66	75	36	1.66	2.08

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER
	3	A3	Single	17202	1.010	B3-U0-G3	114.07	342.21	Lithonia Lighting
	4	A3B	Single	12072	1.010	B1-U0-G2	114.07	456.28	Lithonia Lighting
	1	A3B9	2 @ 90 degrees	12072	1.010	B1-U0-G2	114.07	228.14	Lithonia Lighting
	2	A4	Single	17427	1.010	B2-U0-G3	114.07	228.14	Lithonia Lighting
	28	CAN	Single	16336	1.010	B3-U0-G1	99.79	2794.12	Lithonia Lighting
	11	L1	SINGLE	2238	1.010	N.A.	25.15	276.65	Lithonia Lighting
	3	L2	Single	4570	1.000	N.A.	54.9	164.7	P-LED
	1	L3	Single	3656	1.000	N.A.	43.92	43.92	P-LED
	50	SF	Single	110	1.000	N.A.	1.04	52	P-LED
	11	SF02	SF 2FT	110	1.000	N.A.	1.04	91.52	P-LED
	27	SF04	SF 4FT	110	1.000	N.A.	1.04	393.12	P-LED
	27	SF12	SF 12FT_1	110	1.000	N.A.	1.04	1235.52	P-LED
	9	WP	Single	6614	1.010	B1-U0-G1	51.2609	461.348	Lithonia Lighting

CATALOG LOGIC	
RSX2 LED P2 50K R3 MVOLT SPA FAO	
RSX2 LED P2 50K R3 MVOLT SPA HS FAO	
RSX2 LED P2 50K R4 MVOLT SPA HS FAO	
PCNY LED ALO2 SWW2 (50K) FPCL MVOLT (SW. POS. 6)	
LBR6 ALO2 20LM SWW1 (4000K) AR LSS MWD 90CRI WL	
M-SX024-40 (15 FT)	
M-SX024-40 (12 FT)	
PL-OP2-PD324-P-NW	
PL-OP2-PD324-P-NW	
PL-OP2-PD324-P-NW	
PL-OP2-PD324-P-NW	
ARC2 LED P5 40K MVOLT	

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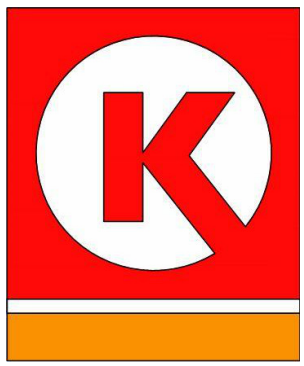
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ELECTRICAL SITE
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