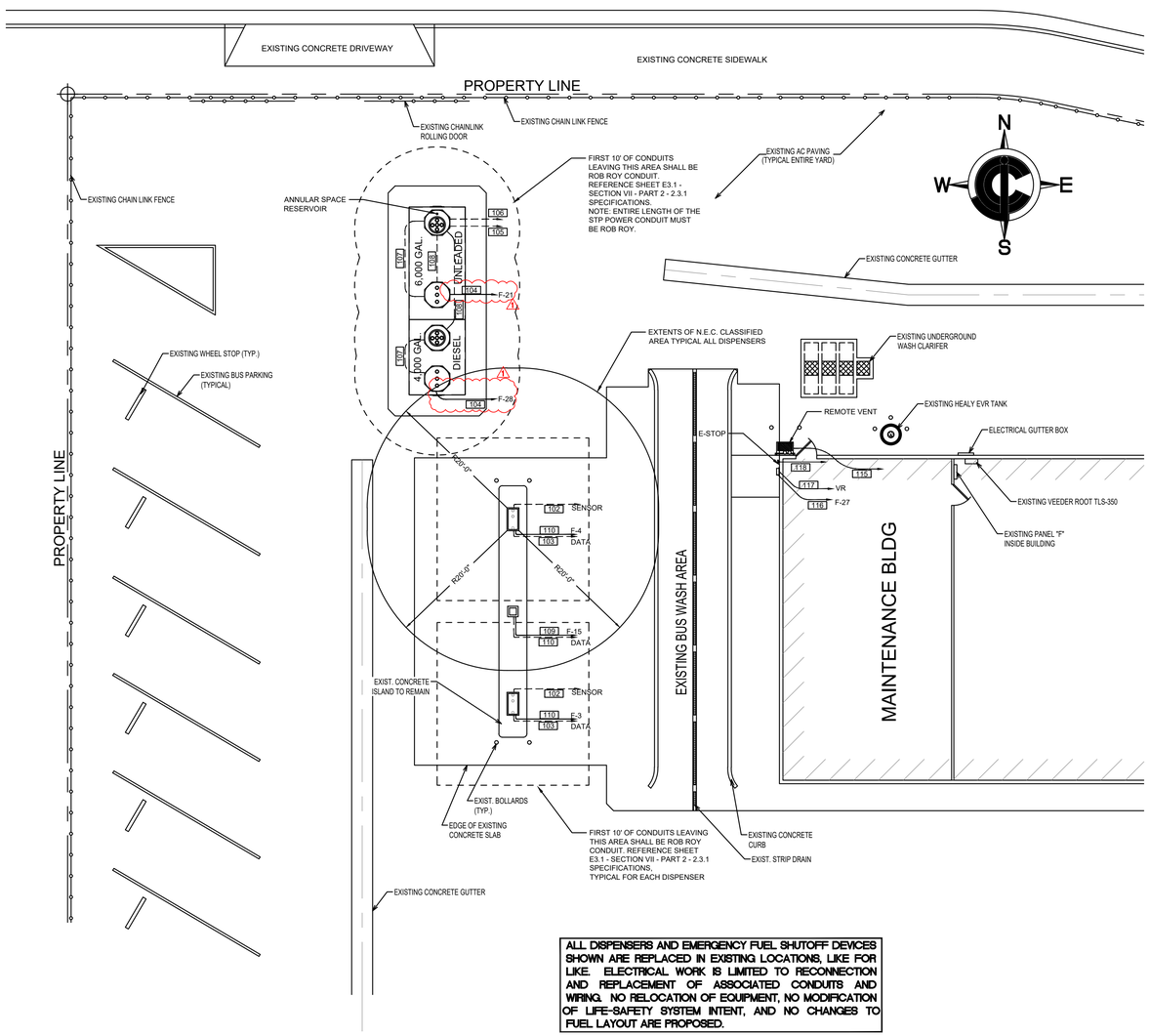


ALL DISPENSERS AND EMERGENCY FUEL SHUTOFF DEVICES SHOWN ARE REPLACED IN EXISTING LOCATIONS, LIKE FOR LIKE. ELECTRICAL WORK IS LIMITED TO RECONNECTION AND REPLACEMENT OF ASSOCIATED CONDUITS AND WIRING. NO RELOCATION OF EQUIPMENT, NO MODIFICATION OF LIFE-SAFETY SYSTEM INTENT, AND NO CHANGES TO FUEL LAYOUT ARE PROPOSED.

1 UNDERGROUND CONDUIT SCHEMATIC
SCALE: 1" = 10'-0"

CONDUIT SCHEDULE

NAME	DESCRIPTION	CONDUIT SIZE	QTY	WIRE SIZE / MFR #	WIRE QTY
101	DISPENSER POWER	3/4"	2	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***
102	DISPENSER SUMP SENSOR	3/4"	2	BELDEN #88760	2 #88760
103	1 DISPENSER DATA *	3/4"	2	2-WIRE TWISTED PAIR CAT6 FEP/FEP (WCW7931AFEQ)	2 PAIR 1
104	2HP STP POWER	3/4"	2	#12 THWN-2	3#12 HOTS, 1#12 GR
105	UNL 87 ATG/SUMP SENSORS/DPLLD/INTERSTITIAL VACUUM SENSOR	3/4"	1	BELDEN #88760	8 #88760
106	DSL TANK ATG/DPLLD/SUMP SENSORS/INTERSTITIAL VACUUM SENSOR	3/4"	1	BELDEN #88760	15 #88760
107	1 VENT/FILL SUMP SENSOR	3/4"	3	BELDEN #88760	1 #88760
108	STP SUMP SENSOR/DPLLD/ATG PROBE/VACUUM SENSOR	3/4"	2	BELDEN #88760	6 #88760
109	FUEL MANAGEMENT POWER	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR***
110	FUEL MANAGEMENT DATA	3/4"	1	2-WIRE TWISTED PAIR CAT6 FEP/FEP (REFER TO MANUF.)	2 PAIR 1
111	NOT USED	-	-	-	-
112	NOT USED	-	-	-	-
113	NOT USED	-	-	-	-
114	NOT USED	-	-	-	-
115	VENT SUMP SENSOR	3/4"	1	BELDEN #88760	1 #88760
116	OVERFILL ALARM/ACKNOWLEDMENT SWITCH	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR
117	OVERFILL ALARM/ACKNOWLEDMENT SWITCH	3/4"	1	BELDEN #88760	1 #88760
118	E-STOP	3/4"	1	#12 THWN-2	1#12 HOT, 1#12 NEUT, 1#12 GR

* REFERENCE DISPENSER MANUF. FIELD WIRING DIAGRAM FOR COMPLETE SPECIFICATIONS
* CONTRACTOR TO UPSIZE CONDUCTORS FOR VOTLAGE DROP AS REQUIRED

F — EXISTING FUEL PANELBOARD "F"

SERVES: TENANT SPACE
LOCATION: BUILDING
MOUNTING: SURFACE

100A MAIN LUG ONLY
1PH 3WIRE 208/120V
SERIES RATED
GROUND BAR

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A		PHASE B		PL	BRKR	WIRE	LOAD SERVED	CK
1	SWITCHED NEUTRAL	---	---	–	0.00	0.00			1	20	---	SPARE	2
3	DISPENSER #1	12	20	1			1.08	1.08	1	20	12	DISPENSER #2	4
5	SPACE	---	---	–	0.00	0.00			–	---	---	SWITCHED NEUTRAL	6
7	SPACE	12	20	1			0.00	0.00	1	20	12	SPACE	8
9	SPACE	---	---	–	0.00	0.00			–	---	---	SPACE	10
11	SPACE	12	20	1			0.00	0.00	1	20	12	SPACE	12
13	SPACE	---	---	–	0.00	0.00			–	---	---	SPACE	14
15	FUEL MANAGEMENT	12	20	1			0.11	0.00	1	20	12	SPACE	16
17	SPACE				0.00	0.00			–	---	---	SPACE	18
19	SPACE	---	---	–			0.00	0.00	–	---	---	SPACE	20
21	UNL 87 TURBINE	12	20	2	1.21	0.00			–	---	---	SPACE	22
23	SPACE	---	---	–			0.00	0.00	–	---	---	SPACE	24
25	SPACE	---	---	–	0.00	0.00			–	---	---	SPACE	26
27	OVERFILL ALARM	12	20	1			0.36	1.21	2	20	12	DSL TURBINE	28
29	LOW VOLTAGE DISC	12	20	1	0.36	0.00			–	---	---	SPACE	30
			TOTAL		1.57		3.84					KVA	
					13.08		32.0					AMPS	
			TOTAL LOAD		5.41	KVA		26.03				AMPS	
PER NEC ARTICLE 220			FEEDER LOAD		5.41	KVA		26.03				AMPS	

DISPENSER POWER CONDUITS MUST BE RUN IN SEPARATE RACEWAY. ENTIRE WIRING RUN MUST BE IN RIGID PVC COATED GALVANIZED STEEL CONDUIT. USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS. NO PVC OR RNC CONDUIT ALLOWED.

USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS AT FIBERGLASS TANK SUMPS OR WHERE BRAVO F-17-RR OR F-10-RR ENTRY FITTINGS ARE CALLED OUT FOR FIRST 10' OF RUN. TRANSITION TO RIGID NONMETALLIC CONDUIT (RNC) WHERE ALLOWED BY JURISDICTION.

RUN PVC COATED GALVANIZED STEEL FOR WIRING RUNS EXPOSED TO THE WEATHER; FOR ENCLOSING MAIN GROUNDING CONDUCTOR: WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED.

WITH THE EXCEPTION OF THE FIRST AND THE LAST 10' OF THE UNDERGROUND RUN AND ONLY WHERE AHJ ALLOWS, RIGID NONMETALLIC CONDUIT (RNC) IS ALLOWED FOR UNDERGROUND RUNS IF CONDUIT IS BURIED AT A MINIMUM OF 2'.

IT IS CRUCIAL THAT THE INSTALLER FOLLOWS NEC, ARTICLE 501 AND/OR OTHER APPLICABLE REQUIREMENTS. BECAUSE CAT-5E/CAT-6 JACKET CAN TRANSPORT FUEL VAPORS, NEC REQUIRES THAT THE INSTALLER REMOVES THE OUTER JACKET, THEN SPREADS THE WIRE PAIRS AT THE SEAL-OFF POINTS, SO THAT A GOOD VAPOR SEAL IS ACHIEVED.

THE VEEDER ROOT, FUEL MANAGEMENT, DISPENSERS MUST ALL BE ON THE SAME ELECTRICAL PHASE PER DISPENSER MANUF. REQUIREMENTS.

FOR DISPENSER POWER CONDUITS, USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" WHERE BRAVO FITTINGS ARE USED AND NO PVC CONDUIT IS PERMITTED. ROUTE CONDUITS IN SEPARATE RACEWAY.

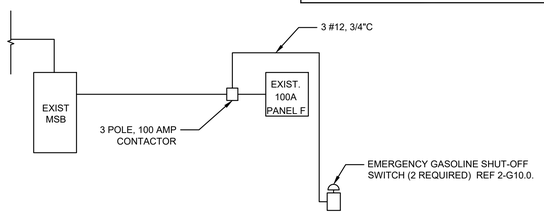
INSTALL CONDUIT FROM THE ELECTRICAL ROOM GUTTERS TO 10'-0" PAST BUILDING SLAB. SEE SPECIFICATION SHEET G16.0, SECTION VII, 2.3.1 FOR CONDUIT TYPES.

EXTEND CONDUITS FROM 10'-0" PAST BUILDING SLAB TO FINAL TERMINATION POINT. SEE SPECIFICATION SHEET G16.0, SECTION VII, 2.3.1 FOR CONDUIT TYPES.

NOTE: PVC CONDUIT (WHERE ALLOWED BY AHJ), MAY BE USED. SEE SPECIFICATION SHEET G16.0, SECTION VII 2.3.1 FOR LOCATIONS WHERE PVC CONDUIT MAY BE USED.

NOTE: ROUTE ALL CONDUITS UNDERGROUND TO MAINTENANCE BUILDING ELEC ROOM. DATA/COM CABLE EXCESS TO BE COILED IN ELEC RM FOR ROUTING ABOVE CEILING IN C-STORE TO FINAL TERMINATION POINT.

FOR STP POWER CONDUITS, USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" WHERE BRAVO FITTINGS ARE USED AND NO PVC CONDUIT IS PERMITTED. ROUTE CONDUITS IN SEPARATE RACEWAY.



NOTE:

(1) GENERAL CONTRACTOR TO RE-USE EXISTING PANELS CIRCUIT BREAKERS AND RUN NEW CONDUITS AND WIRING TO EXISTING PANEL.
(2) GENERAL CONTRACTOR SHALL INSTALL WIRING (FROM CIRCUIT BREAKERS TO EQUIPMENT), RELAYS, ETC. MAKE ALL CONNECTIONS AND COMPLETE SEAL OFF.

3 PARTIAL ELECTRICAL ONE-LINE DIAGRAM
SCALE: 1/8" = 1'-0"

PE STAMP

REVISIONS

NO.:	DATE:	DESCRIPTION:	BY:	APP.:
1	04/27/26	REVISED TO TURBINE w/ VACUUM MONITORING		
2	05/27/26	REVISED PER NEW TANK SPECS		

CJC Design, Inc.
Design Planning Permitting
22485 La Palma Avenue, Suite 202, Yorba Linda, CA 92887
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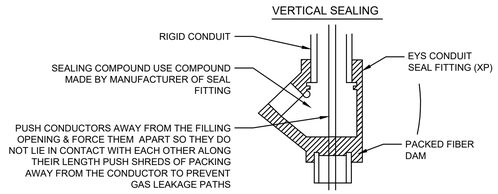
WESTMINSTER SCHOOL DISTRICT EST. 1872

PROJECT:
14121 CEDARWOOD STREET
WESTMINSTER, CA. 92683

ELECTRICAL SITE PLAN

DATE ISSUED: 11/06/2025
SCALE: AS NOTED
DRAWN BY: CR
CHECKED BY: F. COHEN
PROJECT NUMBER: 25057
STORE NUMBER: WSD
SHEET: E1.1

5/27/2026 11:53:05 AM



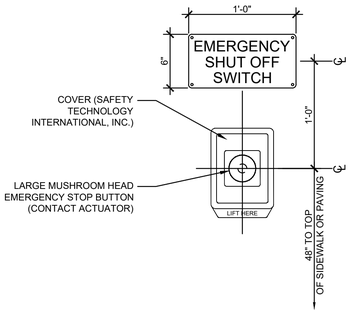
NOTE:

PROVIDE EXPLOSION PROOF SEALS, IN ACCORDANCE WITH ARTICLE 501, CLASS 1, DIVISION 2 OF THE LATEST NATIONAL ELECTRICAL CODE TYPICAL FOR ALL UNDERGROUND CONDUIT STUB-UPS INTO EQUIPMENT

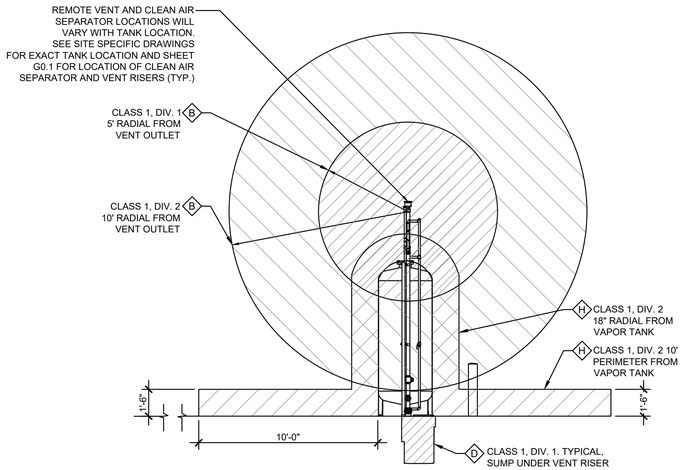
SEAL OFF ALL CONDUIT ENTERING OR LEAVING CAVITIES OR ENCLOSURES OF DISPENSERS AND ASSOCIATED EQUIPMENT. IN ADDITION, ALL CONDUITS COMING FROM THE BUILDING THROUGH A HAZARDOUS LOCATION ALSO REQUIRE SEAL-OFFS AT BOTH ENDS.

5 SEAL FITTING INSTALLATION
SCALE: NTS

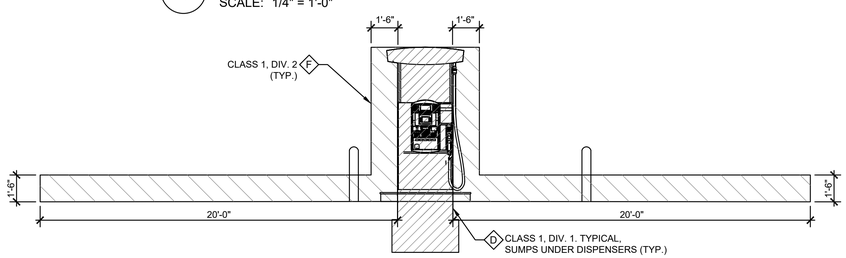
EMERGENCY SWITCH PARTS AND SIGN SUPPLIED AND INSTALLED BY CONTRACTOR



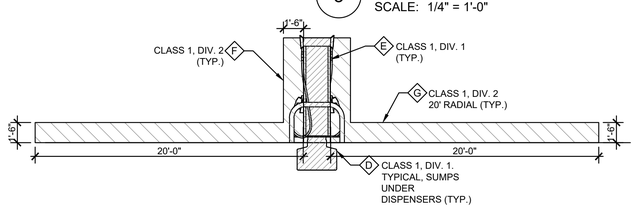
6 EMERGENCY SHUT OFF W/ COVER
SCALE: NTS



4 N.E.C. CLASSIFIED AREA AT REMOTE VENT
SCALE: 1/4" = 1'-0"



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



2 DISPENSER SIDE ELEVATION
SCALE: 3/16" = 1'-0"

N.E.C. HAZARDOUS AREA NOTES

A TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.

B TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.

C TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP - OUTDOOR)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP.

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 3 FEET OF ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTION. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.

D TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - PITS)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFICATION LOCATION.

E TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."

F TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)

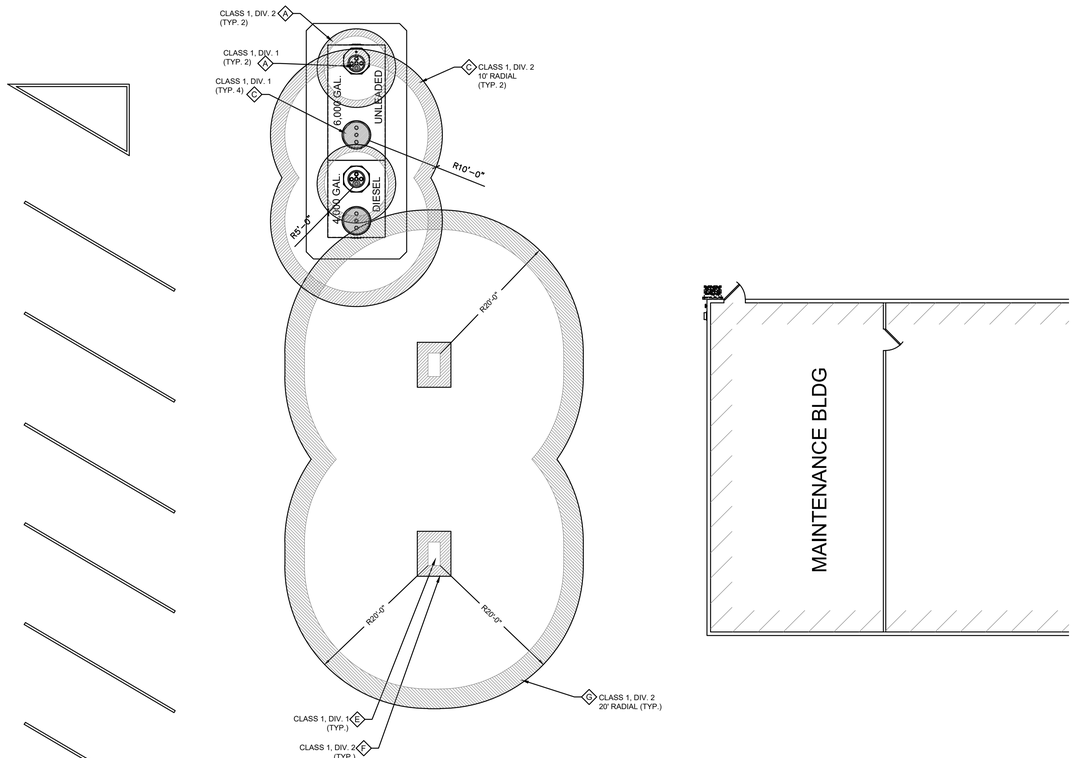
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS. SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."

G TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.

H TYPICAL N.E.C. ARTICLE 514 CLASS 2 LOCATION (VAPOR PROCESSING SYSTEM)

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES OF EQUIPMENT EXTENDING HORIZONTALLY IN ALL DIRECTIONS OF ANY EDGE OF EQUIPMENT DOWN TO GRADE LEVEL. UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY OF ANY EDGE OF EQUIPMENT.



1 N.E.C CLASSIFIED AREA @ GROUND LEVEL
SCALE: 1" = 10'-0"

PE STAMP

REVISIONS

NO.:	DATE:	DESCRIPTION:	BY:	APP.:
1	05/27/26	REVISED PER NEW TANK SPECS		

CJC Design, Inc.
Design Planning Permitting
22485 La Palma Avenue, Suite 202, Yorba Linda, CA 92887
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WESTMINSTER SCHOOL DISTRICT EST. 1872

PROJECT:
14121 CEDARWOOD STREET
WESTMINSTER, CA. 92683
NEC CLASSIFIED AREA

DATE ISSUED: 11/06/2025
SCALE: AS NOTED
DRAWN BY: CR
CHECKED BY: F. COHEN
PROJECT NUMBER: 25057
STORE NUMBER: WSD
SHEET: E2.1

5/27/2026 11:53:08 AM

SECTION VII ELECTRICAL WORK

PART 1 - GENERAL

1.1 SCOPE: THIS SECTION COVERS THE FURNISHING OF ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO THE FURNISHING AND INSTALLATION OF COMPLETE ELECTRICAL WORK INCLUDING:

1.1.1 ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM, INCLUDING CONDUITS, PANEL BOARD OUTLET BOXES, WIRING, SWITCHES, OUTLETS, ETC.

1.1.2 CONDUIT AND WIRING SYSTEM FOR INTERCOM.

1.1.3 WIRING SYSTEM TO SERVE ALL ELECTRIC-USING DEVICES, LIGHTING FIXTURES, PUMPS, CONTROL EQUIPMENT, DISPENSERS, DEVICES AND OTHER CURRENT CONSUMING EQUIPMENT.

1.1.4 POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT.

1.1.5 ALL CONDUITS, CONNECTIONS, WIRE AND STUB-OUTS FOR FASCIA SIGN(S) (WHEN SHOWN), CANOPY LIGHTS, PRICE SIGN(S) AND CANOPY MOUNTED FLOOD LIGHTS.

1.1.6 CONDUITS AS MAY BE SHOWN FOR "FUTURE EQUIPMENT" ON DRAWINGS.

1.1.7 ALL TRENCHING, EXCAVATIONS AND BACK FILL AS REQUIRED IN CONJUNCTION WITH ELECTRICAL WORK.

1.1.8 INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE REQUIRED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF LOCAL CODES AND ORDINANCES AND THE NATIONAL ELECTRIC CODE.

1.2 CODES AND REGULATIONS: COMPLY WITH LATEST REQUIREMENTS OF LOCAL UTILITY COMPANY, LOCAL, STATE, OSHA, NATIONAL ELECTRIC CODES, NATIONAL FIRE PROTECTIVE ASSOCIATION AND LOCAL ELECTRICAL INSPECTION AUTHORITY. REPORT TO OWNER IMMEDIATELY ANY DISCREPANCIES BETWEEN DRAWINGS AND CODES. PROVIDE INSTALLATION SUPERIOR TO CODE WHERE SO INDICATED ON DRAWINGS AND SPECIFIED HEREIN.

1.3 PERMITS, FEES, TAXES: ARRANGE AND PAY FOR ALL NECESSARY PERMITS, FEES, AND TAXES.

1.4 PROGRESS OF WORK: SCHEDULE WORK WITH THAT OF OTHER TRADES AND IN RELATION TO ENTIRE INSTALLATION SO THAT THE ENTIRE PROJECT CAN BE COMPLETED PER CONSTRUCTION SCHEDULE.

1.5 CUTTING AND REPAIRING: PROVIDE ALL CUTTING, CHANNELING, PATCHING, ETC. AS NECESSARY FOR ELECTRICAL WORK UNDER DIRECTION OF GENERAL CONTRACTOR. WORK FOUND TO BE DEFECTIVE OR INCORRECTLY INSTALLED IS TO BE CORRECTED AT THE DIRECTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. MAKE REPAIR WORK TO BE DONE BY SKILLED CRAFTSMEN IN TRADES INVOLVED, BUT PAID FOR THE ELECTRICAL SUBCONTRACTOR.

PART 2 - PRODUCTS

2.1 IDENTIFICATION OF EQUIPMENT AND WIRING: PROVIDE IDENTIFICATION WITH DYMO TAPE OR EQUAL FOR ALL SERVICE ENTRANCE AND DISTRIBUTION EQUIPMENT INCLUDING MAIN SWITCH GEAR, PANELS, DISCONNECT SWITCHES, CONDUITS, ETC., AND FOR MOTOR FEEDERS INCLUDING SWITCHES, STARTERS AND MOTORS.

2.2 LIGHT FIXTURES: TO BE PROVIDED BY OWNER.

2.3 CONDUITS: PROVIDE THE FOLLOWING TYPES OF RACEWAYS IN ACCORDANCE WITH THE SPECIFIC APPLICATION OF LOCATION INDICATED.

2.3.1 TYPICALLY USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS AT FIBERGLASS TANK SUMPS OR WHERE BRAVO F-17-RR OR F-10-RR ENTRY FITTINGS ARE CALLED OUT FOR FIRST 10' OF RUN. TRANSITION TO RIGID NONMETALLIC CONDUIT (RNC) WHERE ALLOWED BY JURISDICTION. UNLESS NOTED OTHERWISE.

STP POWER CONDUITS MUST BE RUN IN SEPARATE RACEWAY. ENTIRE WIRING RUN MUST BE IN RIGID PVC COATED GALVANIZED STEEL CONDUIT. USE ONLY ROB ROY CONDUIT TYPES "PERMA-COAT", "PLASTI-BOND" OR "KORKAP" ELECTRICAL CONDUITS. NO PVC OR RNC CONDUIT ALLOWED.

RUN PVC COATED GALVANIZED STEEL FOR WIRING RUNS EXPOSED TO THE WEATHER; FOR ENCLOSING MAIN GROUNDING CONDUCTOR: WHERE REQUIRED FOR MECHANICAL PROTECTION OR WHERE SPECIFICALLY INDICATED.

WITH THE EXCEPTION OF THE FIRST 10' AND THE LAST 10' OF THE UNDERGROUND RUN AND ONLY WHERE AHJ ALLOWS, RIGID NONMETALLIC CONDUIT (RNC) IS ALLOWED FOR UNDERGROUND RUNS IF CONDUIT IS BURIED AT A MINIMUM OF 2'.

2.3.2 SEAL-OFFS: WHERE CONDUITS EXIT FLOOR OR CONCRETE AT DISPENSERS, AUTO GAUGING, FILL BUCKET, SUBMERSIBLE PUMPS AND N.E.C. CLASSIFIED AREAS (REF G9.1). SEAL-OFFS ARE ONLY REQUIRED ON CONDUITS THAT EXIT A CLASSIFIED AREA OR CONDUITS THAT RUN FROM DISPENSER TO DISPENSER. ALL CONDUITS THAT EXIT A CLASSIFIED AREA SHALL BE SEALED AT BOTH ENDS. SEAL-OFFS SHALL NOT BE REQUIRED FOR CONDUITS FROM SUMP TO SUMP.

2.3.3 N.E.C. APPROVED EXPLOSION PROOF WIRE PULL BOX.

2.4 CONDUCTORS:

2.4.1 FURNISH AND INSTALL COLOR CODED COPPER CONDUCTORS, 600 VOLT, OF SIZES INDICATED. MINIMUM SIZE #12 EXCEPT FOR SIGNAL AND CONTROL CIRCUITS AND WHERE OTHERWISE NOTED. TYPE TW (60 DEGREES CENTIGRADE) FOR GENERAL BRANCH CIRCUIT WIRING; TYPE THN OR THWN-2 (90 DEGREES CENTIGRADE) FOR SUPPLY CONNECTIONS TO LIGHT FIXTURES. INSTALL PER COLOR CODE OF NEC.

2.4.2 SHIELDED CABLES: PROVIDE SHIELDED CABLE FOR INTERCOM AS PER MANUFACTURER'S SPECIFICATIONS AND AS REQUIRED ON DRAWINGS.

VARIABLE SPEED PUMP CABLE:
- THWN-2 "12 AWG 4 CONDUCTOR 600V SHIELDED, GAS/OIL RESISTANT".

DATA COMMUNICATION CABLE:
- SHIELDED WIRE MUST NOT BE USED:
- 2 WIRE TWISTED PAIR (UTP) W/ 10-12 TWISTS PER FOOT.
- WIRING IS STRANDED ANNEALED COPPER TINNED WITH 18 AWG MINIMUM REQUIRED FOR RUNS UP TO 1000 FEET OR 14 AWG FOR RUNS UP TO 2600 FEET. DO NOT DAISY CHAIN COMMUNICATION WIRING.
- INSULATION SPEC IS 300V, PVC INSULATION, TYPE TFFN OR MTW, UL APPROVED GASOLINE AND OIL RESISTANT.

2.5 SPLICES AND CONNECTIONS: PROVIDE SPLICES ONLY IN READILY ACCESSIBLE OUTLET BOXES. PROVIDE INSULATED PRESSURE CONNECTORS OR "CRIMP-ON" SLEEVES WITH OVERALL NYLON INSULATORS FOR CONDUCTORS. CONNECTORS SHALL BE 3M "SCOTCHLOK", BUCHANNAN SPLICE CAPS WITH INSULATED WRAP, OR IDEAL "CRIMP-SLEEVES" WITH SCAP CAP INSULATOR OR EQUAL.

2.6 PANEL BOARDS:

2.6.1 BRANCH CIRCUIT PANEL BOARDS: PROVIDE FLUSH-MOUNT CIRCUIT BREAKER TYPE PANEL BOARDS WITH THERMAL MAGNETIC, MOLDED CASE, "SQUARE D" TYPE NLAB OR APPROVED EQUAL, WITH PLUG-IN CIRCUIT BREAKERS, "SQUARE D" TYPE NLQT. PROVIDE GROUNDING TERMINAL BLOCK IN EACH PANELBOARD. SEE INDIVIDUAL PANEL SCHEDULE ON DRAWINGS.

2.6.2 SUBSTITUTES: DISTRIBUTION EQUIPMENT EQUIVALENT IN TYPE, CLASSIFICATION AND QUALITY IN ACCORDANCE WITH NEMA STANDARDS AS MANUFACTURED BY G.E., CUTLER-HAMMER, FEDERAL PACIFIC, ITE, SQUARE D AND WESTINGHOUSE ARE ACCEPTABLE AS SUBSTITUTES ONLY WHEN APPROVED IN WRITING.

SECTION VII ELECTRICAL WORK - CONTINUED

PART 3 - EXECUTION

3.1 GENERAL: COORDINATE TIME SCHEDULES, INSTALLATION, HOOKUPS AND MISCELLANEOUS PROCEDURES WITH ALL OTHER TRADES THAT WILL BE INVOLVED TO EXPEDITE THE COMPLETION OF THE CONTRACT. THE ELECTRICAL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK.

3.2 CONDUITS: FURNISH AND INSTALL A COMPLETE OVERALL CONDUIT RACEWAY SYSTEM FOR ALL WIRING AND CONDUCTORS. PROVIDE SIZES AND RACEWAYS AS INDICATED ON DRAWINGS OR AS REQUIRED BY NATIONAL ELECTRICAL CODE FOR CONDUCTORS TO BE CONTAINED. ALL RACEWAYS SHALL CONFORM TO THE FOLLOW REQUIREMENTS:

3.2.1 CONCEAL ALL CONDUIT RUNS EXCEPT WHERE EXPOSED RUNS ARE AUTHORIZED BY OWNER'S CONSTRUCTION MANAGER IN WRITING.

3.2.2 ACTUAL CONDUIT RUNS ARE NOT GENERALLY INDICATED; CONDUITS AT TANKS SHALL NOT CROSS OVER TANKS. PLACE CONDUIT THROUGH EACH END OF TANK EXCAVATION AND PLACE FIELDS PARALLEL WITH AXIS OF TANKS.

3.2.3 CLEAN AND DRY ALL RACEWAYS THOROUGHLY BEFORE CONDUCTORS ARE PULLED IN.

3.2.4 FLASH AND COUNTER FLASH CONDUITS WHICH PENETRATE THE CANOPY DECKING.

3.2.5 PROVIDE SEAL-OFF FITTINGS WHERE CONDUIT RUNS ENTER OR LEAVE HAZARDOUS AREAS OF DISSIMILAR CONDITIONS SUCH AS TEMPERATURE, HUMIDITY, ETC.

3.2.6 FURNISH AND INSTALL COMPLETE RACEWAY SYSTEM, INCLUDING CONDUITS AND OUTLETS, AS INDICATED AND AS REQUIRED FOR INTERCOM SYSTEM, GAS PRICE SIGNS, SECURITY LIGHTING AND CANOPY LIGHTING SYSTEM, AND LIGHTED FASCIA SYSTEM WHERE APPLICABLE. CONDUIT AMOUNTS AND SIZES SHALL BE AS SHOWN ON GASOLINE DRAWINGS. ADDITIONAL CONDUITS AND CIRCUITS WILL BE REQUIRED FOR LIGHTED FASCIA SYSTEMS. PROVIDE AS REQUIRED.

3.3 LIGHTING: INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON DRAWINGS. SECURELY MOUNT ALL FIXTURES; PROVIDE ALL ADDITIONAL HANGERS AND SUPPORTS AS NECESSARY TO SECURELY FASTEN AND SUPPORT FIXTURES. CLEAN ALL FIXTURES AND LAMPS UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL VERIFY AMOUNT AND TYPE OF ISLAND/CANOPY LIGHTING SYSTEMS. SHOULD ADDITIONAL CONDUITS/CIRCUITS BE REQUIRED, VERIFY THROUGH LOCAL CONSTRUCTION OFFICE AND PROVIDE AS REQUIRED.

3.4 SIGNS AND LIGHTED FASCIA: VERIFY FINAL LOCATIONS AND TYPE WITH OWNER. FURNISH AND INSTALL ALL CONDUITS AND WIRES WITH STUB-OUTS AS DIRECTED. MAKE FINAL CONNECTIONS AS REQUIRED.

3.5 OUTLETS: COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING INTERCOM OUTLETS, SWITCHES, RECEPTACLES, CONTROLLERS, PANEL BOARDS, SWITCH GEAR, ETC., TO AVOID INTERFERENCE AND OBSTRUCTIONS WITH EQUIPMENT OF OTHER CRAFTS AND TRADES SO THAT ELECTRICAL EQUIPMENT WILL NOT BE BLOCKED OR MADE INACCESSIBLE OR IMPERMEABLE. PROVIDE WEATHERPROOF OUTLETS WHERE EXPOSED TO THE WEATHER OR TO MOISTURE.

3.6 ISOLATED GROUND: IT IS MANDATORY THAT GASOLINE EQUIPMENT REQUIRING ISOLATED GROUND SHALL BE PROVIDED WITH SAME. MINIMUM CIRCUITS REQUIRED, BUT NOT LIMITED TO, SHALL BE: INTERCOM, GAS CONSOLE AND GASOLINE TANK MONITORING SYSTEM.

3.7 EXCAVATION AND BACK FILLING: ALL EXCAVATION AND BACK FILLING NECESSARY FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE INCLUDED IN THIS SECTION AND COMPLY WITH SECTION III, EARTHWORK.

3.8 OPERATING AND ACCEPTANCE TESTS:

3.8.1 CONDUCT OPERATING TEST ON ENTIRE ELECTRICAL INSTALLATION; ALL SYSTEMS MUST BE COMPLETE AND IN GOOD OPERATING ORDER. REFER TO STARTUP AND FINAL CHECK-OUT OF SYSTEM COVERED ELSEWHERE. DO NOT START OR OPERATE EQUIPMENT WITHOUT SPECIFIC DIRECTIVES OF OWNER'S SPECIFIED REPRESENTATIVE. ANY DAMAGE TO OWNER'S EQUIPMENT DUE TO DEFECTIVE INSTALLATION AND/OR OPERATION WILL BE THE RESPONSIBILITY OF THAT SUBCONTRACTOR FOR CORRECTION, REPLACEMENT AND/OR MONETARY COMPENSATION AS REQUIRED.

3.8.2 MAKE INSULATION TESTS ON MAIN SERVICE EQUIPMENT AND ALL FEEDERS AND PANELBOARDS.

3.8.3 TEST GROUND: RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.

3.8.4 INSPECT ALL PANELBOARDS. ALL CONNECTIONS MUST BE TIGHT AND SECURE.

3.9 "AS-BUILT" DRAWINGS: FURNISH OWNER'S CONSTRUCTION MANAGER WITH ONE SET OF MARKED-UP PRINTS (HARDCOPY) AND ALSO IN AUTO CAD 2004 COMPATIBLE DRAWING FILE FORMAT (.DWG) SHOWING "AS-BUILT" INSTALLATION.

3.10 FINAL ACCEPTANCE: UPON COMPLETION OF WORK, PRESENT CERTIFICATE OF APPROVAL OF LOCATION OR GOVERNING INSPECTION AUTHORITY.

3.11 CLEANUP: CLEAN UP ALL DEBRIS CAUSED BY WORK OF THIS SECTION, KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.

PE STAMP

REVISIONS

NO.:	DATE:	DESCRIPTION:	BY:	APP.:

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ELECTRICAL GENERAL SPECIFICATIONS

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