

SHEET 09 OF 13

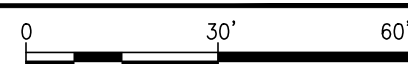


(E) FLEET SERVICES BLDG

1 SITE PLAN

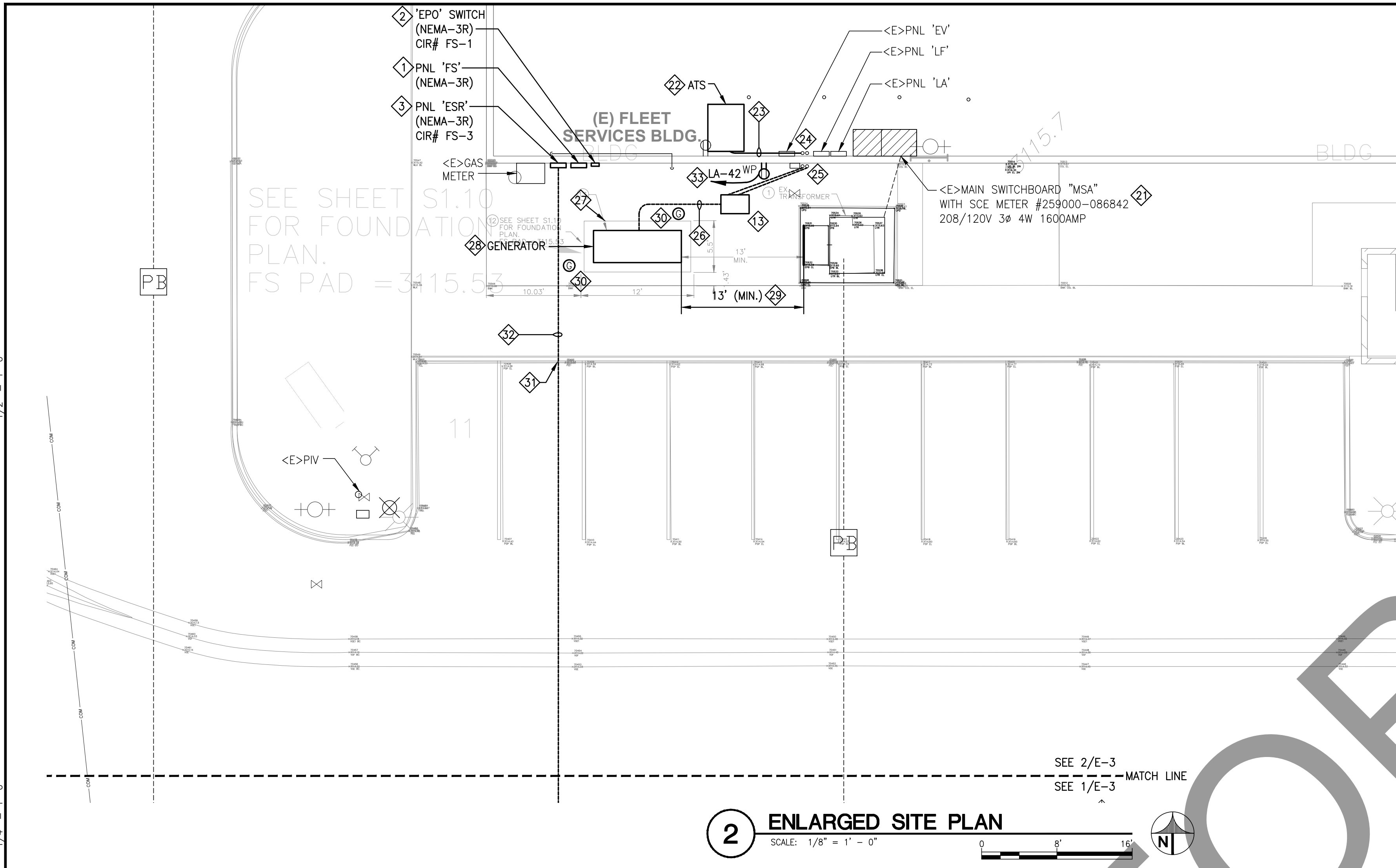
SCALE: 1" = 30' - 0"

SCALE: 1" = 30' - 0"



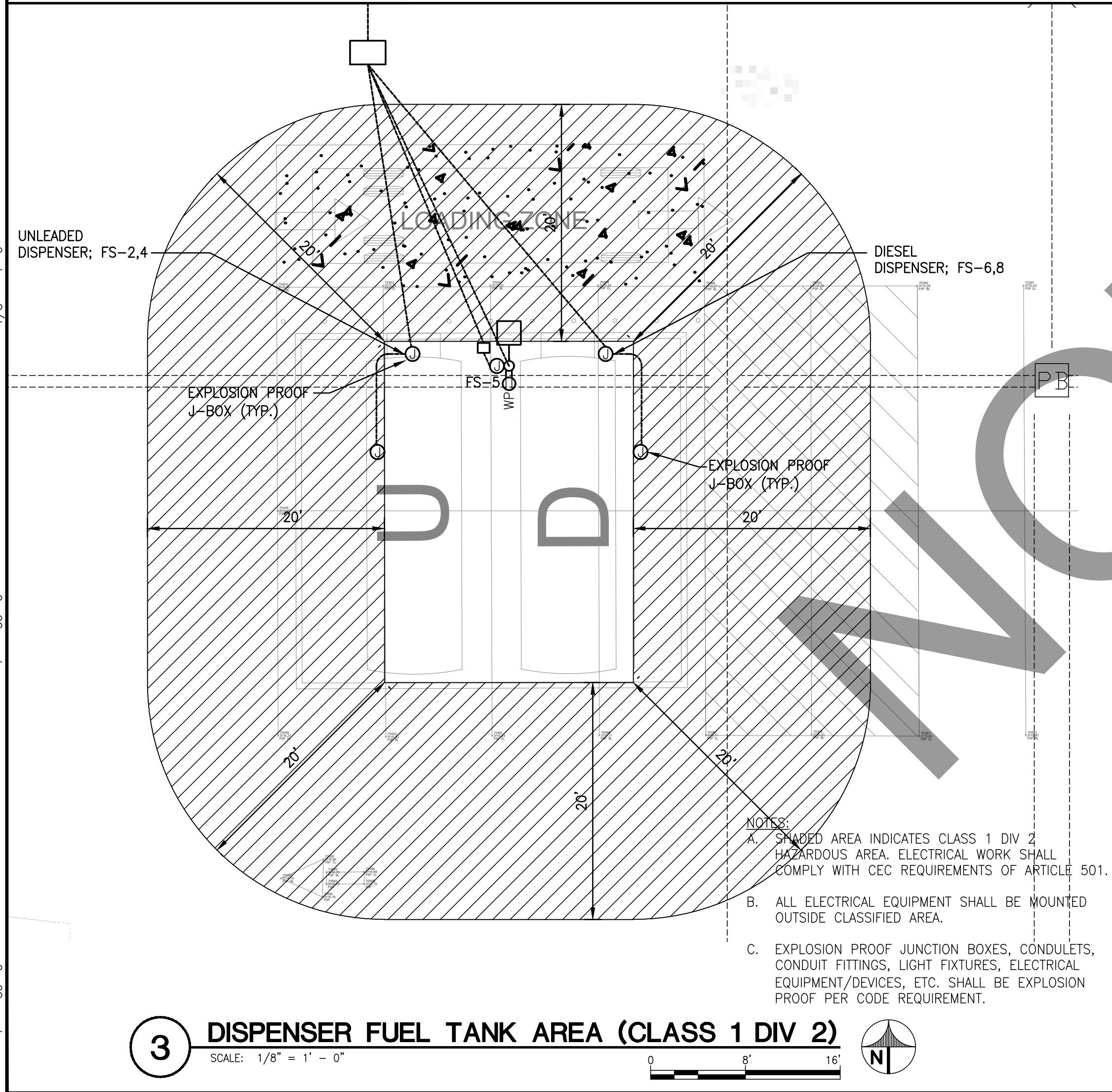
REVIEWED
FOR
CODE COMPLIANCE
Mar 12, 2021
INTERWEST CONSULTING GROUP





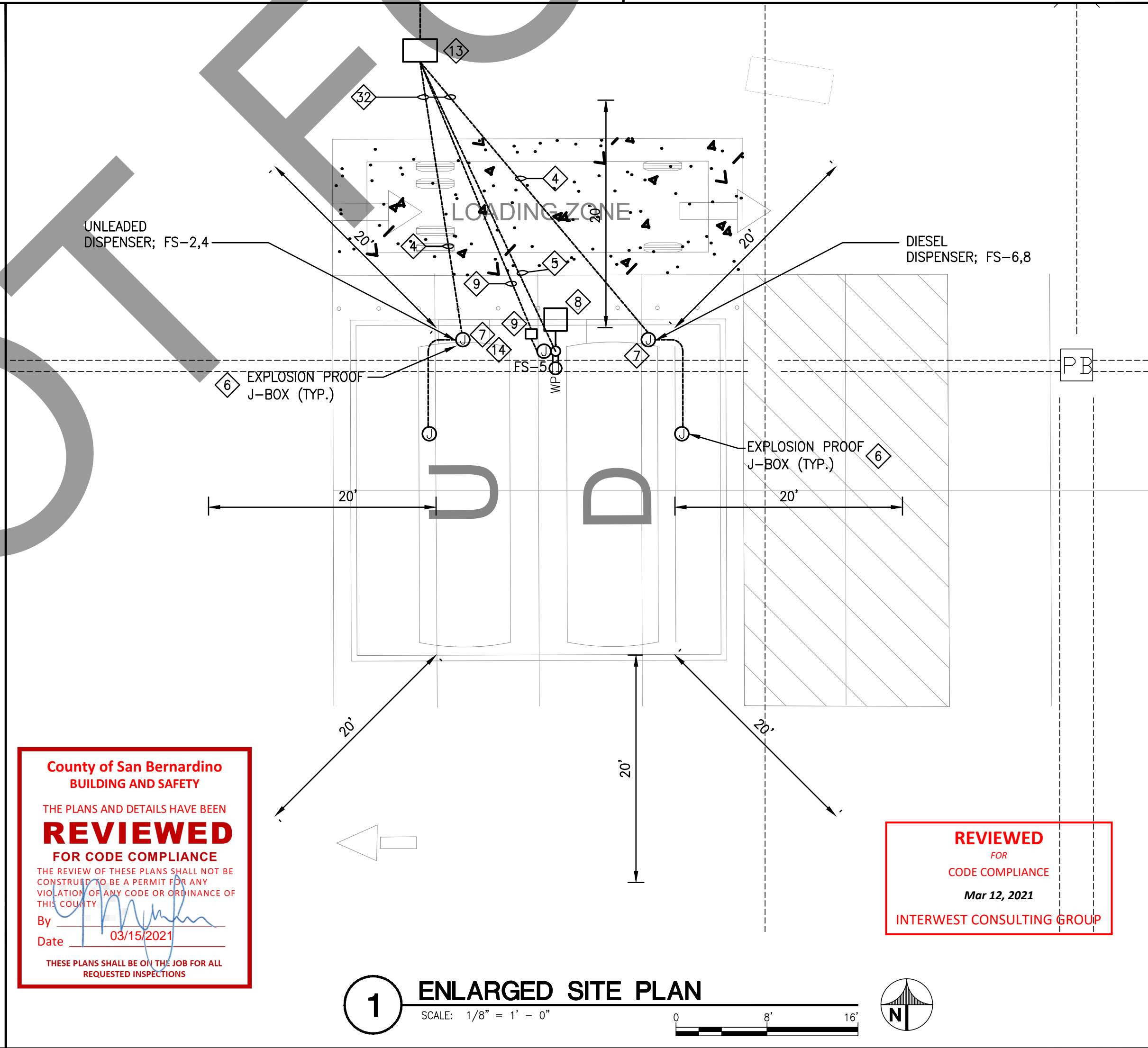
2 ENLARGED SITE PLAN

SCALE: 1/8" = 1' - 0"



3 DISPENSER FUEL TANK AREA (CLASS 1 DIV 2)

SCALE: 1/8" = 1' - 0"



1 ENLARGED SITE PLAN

SCALE: 1/8" = 1' - 0"

REFERENCE SHEET NOTES

- MODIFY EXISTING MAIN SWITCHBOARD 'MSA' WITH LOAD SIDE TAP FOR ATS AND GENERATOR CONNECTION. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENT. SEE SINGLE LINE DIAGRAM FOR DETAIL.
- OFO 1600AMP 4POLE ATS WITH BYPASS. PROVIDE LUG REDUCER AT EMERGENCY SIDE FOR SMALL FEEDER SIZE PER SINGLE LINE DIAGRAM. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENT. COORDINATE WITH COUNTY FOR TRANSPORTING REQUIREMENT AND LOCATION. CONTRACTOR IS RESPONSIBLE TO TEST <E>ATS PRIOR TO ENERGIZING THE GENERATOR.
- FEEDER SHALL BE SURFACE MOUNTED ABOVE PANEL AND SWITCHBOARD HEIGHT. VERIFY WITH COUNTY FOR EXACT MOUNTING HEIGHT. SEE SINGLE LINE DIAGRAM FOR FEEDER DETAIL.
- USE (2) EXISTING 4" SPARE CONDUITS FOR GENERATOR CONNECTION AND PANEL 'FS'. PROVIDE JUNCTION BOX AS REQUIRED FOR CONDUITS DISTRIBUTION. FIELD VERIFY FOR EXACT LOCATION.
- TRANSITION <E>(2)4" CONDUITS TO FEEDERS OF GENERATOR AND PANEL 'FS' + SPARE CONDUITS. PROVIDE JUNCTION BOX AS REQUIRED FOR INTERCEPTION. SEE SINGLE LINE DIAGRAM FOR ADDITIONAL INFO.
- FEEDER OF GENERATOR, BATTERY CHARGER, BLOCK HEATER, COMM CABLE (600V RATED). SEE SINGLE LINE DIAGRAM FOR DETAIL.
- CONCRETE HOUSEKEEPING PAD WITH #2 GROUND WIRE LOOP FOR GENERATOR. CONNECT GROUND LOOP BACK TO GROUNDING SYSTEM. SEE STRUCTURAL DRAWINGS FOR DETAIL. COORDINATE WITH GENERATOR MANUFACTURER FOR ANCHORAGE REQUIREMENT.
- 60KW DIESEL STANDBY GENERATOR WITH LEVEL 2 SOUND ENCLOSURE WITH 350GALLON BELLY TANK AND INTEGRATED CIRCUIT BREAKER. VERIFY WITH COUNTY FOR EXACT GENERATOR REQUIREMENT. GENERAC IS USED AS BASIS OF DESIGN. GENERATOR SHALL BE APPROVED EQUAL BY COUNTY AND EFOR.
- MAINTAIN WORKING CLEARANCE FROM EXISTING UTILITY TRANSFORMER. VERIFY WITH LOCAL UTILITY COMPANY FOR EXACT REQUIREMENT.
- GROUND WELL WITH 1"x10FT COPPER GROUND ROD WITH #2 BARE COPPER GROUND WIRE. SEE DETAIL FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL REPLACE THE COMPLETE PIECE OF CONCRETE HARDSCAPE AND CONCRETE CURB.
- UNDERGROUND FEEDER FOR PANEL 'FS' AND (1)4" SPARE CONDUIT. SEE PANEL SCHEDULE AND SINGLE LINE DIAGRAM FOR DETAIL.
- GFI RECEPTACLE WITH WHILE-IN-USE COVER.

GENERAL SHEET NOTES

- ALL UNDERGROUND SITE WORK CONDUIT TO BE BURIED MINIMUM 24" BELOW FINISH GRADE AND USE MIN. 3/4" CONDUIT U.O.N. SEE UNDERGROUND CONDUIT DETAIL FOR DIFFERENT INSTALLATION SCENARIOS.
- CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY IN NATURE AND IS NOT INTENDED TO SHOW EXACT CONDUIT ROUTING. THE ELECTRICAL CONTRACTOR SHALL DETERMINE, IN THE FIELD, THE BEST ROUTING TO AVOID ANY INTERFERENCE WITH UNDERGROUND UTILITIES OR OTHER EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND TERMINATION OF CONDUIT AND WIRING. CONTRACTOR SHALL HAVE UNDERGROUND UTILITIES SCANNING FOR PRIOR TO ANY GROUND BREAKING/SAWCUTTING/BORING.
- ALL UNDERGROUND CONDUITS FROM HAZARDOUS AREAS ENTERING THE BUILDING TO BE PROVIDED WITH EYS SEAL-OFFS AT POINTS OF ORIGIN AS WELL AS POINTS OF TERMINATION, AND SHALL BE LABELED WITH A METAL TAG AS TO THEIR ORIGIN.
- UNDERGROUND WIRING SHALL BE INSTALLED IN THREADED RMC OR THREADED STEEL IMC. ANY PORTION OF ELECTRICAL WIRING THAT IS BELOW THE SURFACE OF A CLASS 1, DIVISION 1, OR CLASS 1, DIVISION 2, LOCATION (AS CLASSIFIED IN TABLE 514.3(8)(1) AND TABLE 514.3(8)(2)) SHALL BE SEALED WITHIN 10FT OF THE POINT OF EMERGENCE ABOVE GRADE. <CEC 514.8>. GALVANIZED RIGID STEEL CONDUIT (RMC) DIRECTLY BURIED IN GROUND SHALL BE PVC COATED. NO EXCEPTIONS.
- ALL POWER AND CONTROL WIRING SHALL BE TAGGED WITH IDENTIFICATION AT JUNCTION BOXES/PULL BOXES/ENTRANCE/EXIT OF CONDUITS. IDENTIFICATION SHALL INCLUDE STARTING POINT/TERMINATION POINT WITH RELATING HOMERUN INFORMATION. SEE E-4 DETAIL 11.
- FURNISH AND INSTALL PERMANENT ENGRAVED LEGEND (WHITE PLAQUE WITH BLACK LETTERS) OF EACH CIRCUIT BREAKER AT SWITCHBOARD/SWITCHGEAR FOR GENERATOR (STANDBY POWER SOURCE).

CONDUIT SEAL-OFF FITTING NOTES

- IF CONDUIT RUNNING FROM CLASS 1, DIVISION 2 HAZARDOUS AREA TO UNCLASSIFIED AREA, BOTH ENDS SHALL BE EQUIPPED WITH EYS EXPLOSION SEAL-OFF FITTING, NO EXCEPTION.
- CONDUIT SEAL SHALL BE REQUIRED IN EACH CONDUIT RUN LEAVING A CLASS 1, DIVISION 2 LOCATION. THE SEALING FITTING SHALL BE PERMITTED TO BE INSTALLED AT EITHER SIDE OF THE BOUNDARY WITHIN 10FT OF THE BOUNDARY AND IT SHALL BE DESIGNED AND INSTALLED TO MINIMIZE THE AMOUNT OF GAS OR VAPOR WITHIN THE PORTION OF THE CONDUIT INSTALLED IN THE DIVISION 2 LOCATION THAT CAN BE COMMUNICATED BEYOND THE SEAL.

EMERGENCY POWER OFF (SHUTOFF) NOTE

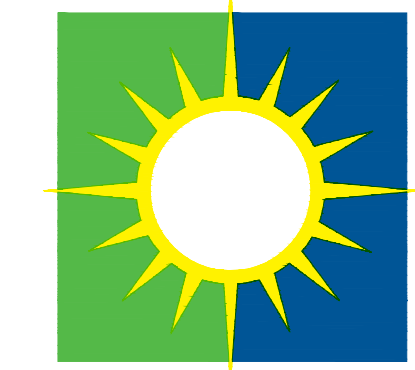
- EMERGENCY POWER OFF (SHUTOFF) SWITCH CONTROLS OPERATION OF FUELING CONTROLS EMERGENCY SHUTDOWN. PUSH-BUTTON OPERATOR IN SURFACE MOUNTED NEMA-3R ENCLOSURE WITH HINGED CLEAR COVER, PROVIDED BY ELECTRICAL CONTRACTOR. (STI-SERIES 2000-RED MANUFACTURED BY STI). ELECTRICAL CONTRACTOR TO PROVIDE NAMEPLATE AT SHUTOFF SWITCH WITH THE INSCRIPTION 'EMERGENCY SHUTOFF SWITCH'. THE NAMEPLATE WILL BE RED WITH J-BOX FOR AUTOMATIC DOOR. VERIFY LOCATION OF J-BOX WITH DOOR MANUFACTURER.

REFERENCE SHEET NOTES

- FUEL STATION PANEL 100AMP MCB 208/120V 3Ø 4W. SEE PANEL SCHEDULE AND SINGLE LINE DIAGRAM FOR DETAIL.
- EMERGENCY POWER OFF SWITCH 'EPO' WITH RESET CONTACT (SAFETY TECHNOLOGY INC. STOPPER STATION #SS-2000PS). SEE WIRING DIAGRAM FOR DETAIL. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENT.
- EMERGENCY SHUT OFF RELAY PANEL 'ESR' WITH 12 POLE MECHANICALLY HELD RELAYS. SEE WIRING DIAGRAM FOR DETAIL. COORDINATE WITH FUEL PUMP STATION VENDOR FOR EXACT REQUIREMENT.
- 3/4" UNDERGROUND CONDUIT WITH 120V CONTROL WIRING PER MANUFACTURER REQUIREMENT WITH #10 GROUND WIRE.
- 3/4" UNDERGROUND CONDUIT WITH 2#12, 1#12 GND. FOR LIGHT POLE. COORDINATE WITH FUEL PUMP STATION VENDOR FOR UNDERGROUND CONDUIT ROUTING.
- ALL JUNCTION BOXES WITHIN DISPENSER FUEL TANK AREA SHALL BE EXPLOSION PROOF.
- FUEL DISPENSER POWER POINT OF CONNECTION. COORDINATE WITH MANUFACTURER FOR EXACT LOCATION AND REQUIREMENT.
- 20FT LED LIGHT SQUARE STEEL POLE (94W 120V LITHONIA #KAD-LED-40C-700-40K-R5-MVOLT-SPD-PER7-PIRH) WITH PHOTOCELL AND MOTION SENSOR. CONTROL VIA 2-POLE RELAY (SWITCH NEUTRAL) AND PHOTOCELL IN SEPARATE COMPARTMENT.
- FURNISH AND INSTALL 1" CONDUIT AND UNDERGROUND 12"x10" PULLBOX WITH CAT6 CABLE FROM FLEET MANAGEMENT BUILDING TO EJ WARD TERMINAL. COORDINATE WITH COUNTY OF SAN BERNARDINO FOR EXACT LOCATION OF PULLBOX.
- NOT USED.
- NOT USED.
- NOT USED.
- 36x24x36"D ELECTRICAL PULL BOX WITH H2O TRAFFIC CONCRETE COVER AND LOCKABLE DEVICE. MARK 'ELECTRICAL' ON PULL BOX COVER. COORDINATE WITH CIVIL FOR EXACT LOCATION AND COORDINATE WITH COUNTY FOR EXACT REQUIREMENT.
- GFI RECEPTACLE WITH EXPLOSION-PROOF AND WHILE-IN-USE COVER. CONDUITS, CONDULETTS AND JUNCTION BOXES SHALL BE EXPLOSION-PROOF. COORDINATE WITH LIGHT POLE MANUFACTURER FOR PREFABRICATED EXPLOSION-PROOF JUNCTION BOX OPENING.

County of San Bernardino
BUILDING AND SAFETY
THE PLANS AND DETAILS HAVE BEEN
REVIEWED
FOR CODE COMPLIANCE
THE REVIEW OF THESE PLANS SHALL NOT BE
CONSTRUED TO BE A PERMIT FOR ANY
VIOLATION OF ANY CODE OR ORDINANCE OF
THIS COUNTY
By *[Signature]*
Date **03/15/2021**
THESE PLANS SHALL BE ON THE JOB FOR ALL
REQUESTED INSPECTIONS

REVIEWED
FOR
CODE COMPLIANCE
Mar 12, 2021
INTEREST CONSULTING GROUP

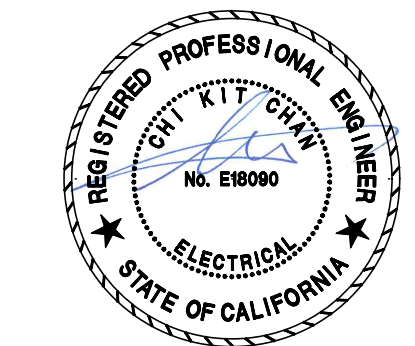


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**VICTORVILLE FLEET MAINTENANCE
BUILDING**

15000 TOKAY STREET
VICTORVILLE, CA 92395

**SBC VICTORVILLE GENERATOR
& FUEL STATION**

MARK	DATE	DESCRIPTION
	04/29/20	100% CD SET
	10/23/20	100% CD REVISED SET
	02/18/21	100% CD SET

SOBE PROJECT NO:	1901457
DATE:	04/29/20
DRAWN BY:	CAD
CHECKED BY:	BN
APPROVED BY:	AC

SHEET TITLE
**ELECTRICAL
ENLARGED SITE PLAN**

SCALE: AS NOTED
THIS DRAWING IS 24" x 36" AT FULL SIZE

E-4

SHEET 11 OF 13

11 FEEDER TAG DETAIL
SCALE: N.T.S.

8 H-FRAME BASE DETAIL
SCALE: N.T.S.

5 GROUND WELL
SCALE: N.T.S.

2 PVC TO RIGID CONDUIT TRANSITION

10 EXPLOSION-PROOF
SEAL-OFF STUB-UP TO ELECTRICAL

7 SIGNAGE

SCALE: SCHEMATIC

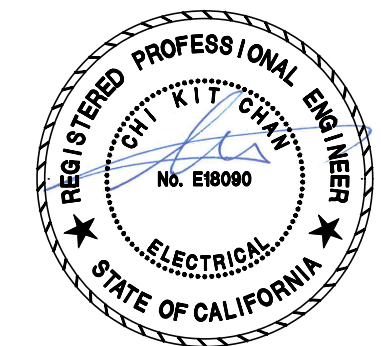
4 ELECTRICAL EQUIPMENT GROUNDING SECTION

1 TRENCHING SECTION

9 EMERGENCY SHUT OFF RELAY "ESR"
SCALE: N.T.S.

6 GENERATOR CONTAINMENT DETAIL
SCALE: N.T.S.

3 CONDUIT SUPPORT



**VICTORVILLE FLEET MAINTENANCE
BUILDING**

15000 TOKAY STREET
VICTORVILLE, CA 92395

**SBC VICTORVILLE GENERATOR
& FUEL STATION**

[illegible]

SOBE PROJECT NO:	1901457
DATE:	04/29/20
DRAWN BY:	CAD
CHECKED BY:	BN
APPROVED BY:	AC

SHEET TITLE
ELECTRICAL DETAILS

SCALE:	AS NOTED
THIS DRAWING IS 24" x 36" AT FULL SIZE	

E-5

SHEET 12 OF 13