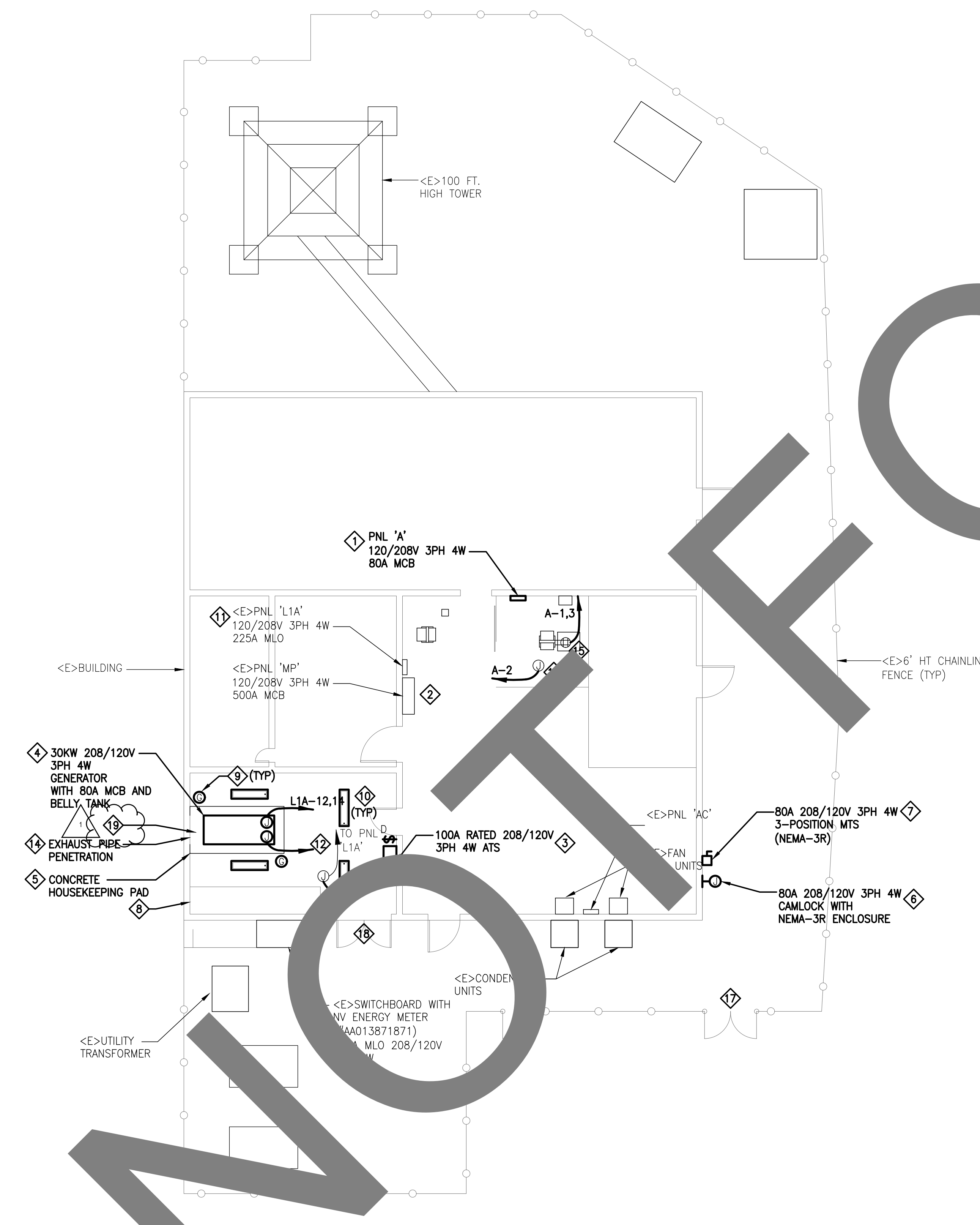


THIS DRAWING IS 30" X 42" AT FULL SIZE. 15" X 21" AT HALF SIZE. © 2015 BY SAAS O'BRIEN ENGINEERS, INC.



1 ELECTRICAL SITE PLAN - NEW
SCALE: 1/8" = 1' - 0"

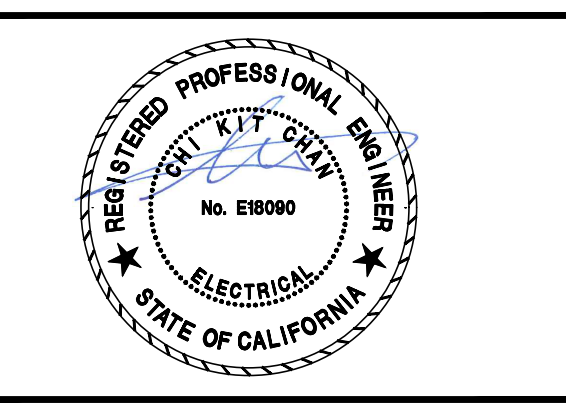
GENERAL SHEET NOTES

- A. NEW GROUND ROD AT GROUND WELL SHALL BE CONNECTED TO EXISTING SITE GROUNDING AND NEW GROUND LOOP UNDER CONCRETE PAD.
- B. CONTRACTOR SHALL PERFORM GROUNDING RESISTANCE TEST PRIOR TO THE CONSTRUCTION AS THE GROUNDING RESISTANCE BASE LINE. CONTRACTOR SHALL PERFORM SECOND GROUNDING RESISTANCE TEST AFTER GROUNDING SYSTEM IS INSTALLED TO CONFIRM THE RESISTANCE IS LESS THAN 5 OHMS. IF IT IS MORE THAN 5 OHMS, CONTRACTOR SHALL PERFORM ADDITIONAL GROUNDING MITIGATION PER BELOW.
- C. IF GROUNDING SYSTEM CANNOT REACH 5 OHMS WITH ADDITIONAL GROUNDING PLATES, FURNISH AND INSTALL LYNCONITE II AS BACKFILL TO SURROUND THE XIT SYSTEMS DURING INSTALLATION. IT IS BASED ON NATURAL CLAY FORMED BY VOLCANIC ACTION, SPECIALLY PROCESSED TO BE VERY ELECTRICALLY CONDUCTIVE. LYNCONITE II ENHANCES THE PERFORMANCE OF THE GROUNDING SYSTEM. IT IS MIXED WITH WATER (14 GALS/BAG) UNTIL A SLURRY IS FORMED (SIMILAR TO PANCAKE BATTER) AND PUMPED OR Poured AROUND THE ELECTRODE IN THE HOLE.
- D. CONTRACTOR SHALL BE RESPONSIBLE TO SCAN (OR POLE HOLE) UNDERGROUND UTILITIES AND REBAR LOCATION PRIOR TO ANY SAWCUTTING OR BENCHING.
- E. COORDINATE WITH COUNTY OF SAN BERNARDINO FOR SEQUENCE OF REMOVAL OF EXISTING GENERATOR/ATS. MOP SHALL BE SUBMITTED AND APPROVED BY COUNTY OF SAN BERNARDINO PRIOR TO ANY DISCONNECTION/DEMOLITION. PROVIDE TEMPORARY GENERATOR, LIGHTING AND HVAC TO DATA ROOM AS REQUIRED BY COUNTY OF SAN BERNARDINO.
- F. ALL SPARE CIRCUIT BREAKERS SHALL BE TAG AND TURN TO 'OFF' POSITION.
- G. ALL CEILING HUNG CONDUITS SHALL BE SUPPORTED PER DETAIL AND CODE REQUIREMENT.
- H. CONTRACTOR IS RESPONSIBLE FOR ALL OBTAINING PERMITS, FEES AND REMOVAL OF ALL DEBRIS/MATERIALS/SOILS PER LOCAL JURISDICTION REQUIREMENT.

REFERENCE SHEET NOTES

1. FURNISH AND INSTALL ELECTRICAL PANEL PER SINGLE LINE DIAGRAM AND PANEL SCHEDULE. VERIFY WITH COUNTY OF SAN BERNARDINO FOR EXACT MOUNTING LOCATION.
2. EXISTING SWITCHBOARD 'MS'. INSTALL CIRCUIT BREAKER PER SINGLE LINE DIAGRAM AND INTERCONNECT WITH ATS. MATCH EXISTING CIRCUIT BREAKER FOR RATING.
3. REPLACE EXISTING ATS WITH 208/120V 3PH 4W ATS WALL MOUNTED. PROVIDE CONNECTION PER SINGLE LINE DIAGRAM. PROVIDE CONTROL WIRING IN CONDUITS TO GENERATOR FOR ENGINE-START.
4. 208/120V 3PH 4W DIESEL GENERATOR WITH INTEGRATED CIRCUIT BREAKER AND 300GAL DOUBLE WALL BASE TANK. EXHAUST DUCT SHALL BE INSTALLED PER MECHANICAL DRAWINGS. DUCT PENETRATION SHALL SEE STRUCTURAL PLAN.
5. CONCRETE HOUSEKEEPING PAD PER STRUCTURAL DRAWINGS. COORDINATE WITH MANUFACTURER FOR ANCHORAGE LOCATION AND BOLT REQUIREMENT.
6. FURNISH AND INSTALL NEMA-3R 80A 208/120V 3PH 4W CAMLOCK WITH WHILE-IN-USE COVER. (MALE: LOAD, FEMALE: NEUTRAL+GROUND) VERIFY WITH COUNTY OF SAN BERNARDINO FOR EXACT LOCATION.
7. FURNISH AND INSTALL NEMA-3R MANUAL TRANSFER SWITCH (SOURCE 1 - OFF - SOURCE 2). VERIFY WITH COUNTY OF SAN BERNARDINO FOR EXACT LOCATION.
8. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE FILTERS AT <E>INTAKE. CONTRACTOR SHALL CLEAN THE INTAKE SPACE AND REPAIR/REPLACE INTAKE DOOR. COORDINATE WITH COUNTY OF SAN BERNARDINO FOR ADDITIONAL REQUIREMENT.
9. 10"x3/4" COPPER CLAD GROUND ROD FOR GENERATOR. PROVIDE #2/0 BARE COPPER EMBEDDED IN THE CONCRETE AND TIE TO REBAR AT THE ENTIRE PERIMETER OF THE PAD.
10. REPLACE ALL LIGHT FIXTURES WITHIN THIS ROOM WITH LED LIGHT FIXTURES (COOPER LIGHTING #4LED-LD5-7-W-WG-UNV-L840-CD-P11WG-MMS). LIGHT FIXTURES SHALL HAVE INTEGRATED OCCUPANCY SENSOR AND RELAY. CONNECT TO ROOM DIMMER SWITCH. SEE DETAIL ON SHEET ES.1 FOR MOUNTING DETAIL.
11. PROVIDE 120V (EACH) POWER SUPPLY TO GENERATOR BATTERY CHARGER AND BLOCK HEATER WITH 3/4" C. - 3#12 + 1#12 GND. WIRING.
12. 3/4" CONDUIT WITH COMMUNICATION WIRING TO ATS FOR ENGINE START. 3/4" UNDERGROUND CONDUIT WITH COMMUNICATION WIRING AND DRY CONTACT/RELAY TO COUNTY ISD BMS SYSTEM FOR MONITORING AND REMOTE GENERATOR START. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENT.
13. NOT USED.
14. ENGINE EXHAUST PIPE PENETRATION: MUFFLER SHALL BE MOUNTED AT EXTERIOR OF BUILDING. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENT. SEE STRUCTURAL FOR DETAIL. FIELD VERIFY FOR EXACT LOCATION.
15. EXISTING QUADPLEX RECEPTACLE AT DATA RACK. FURNISH AND INSTALL CONDUITS AND WIRING AS REQUIRED. RECONNECT TO PANEL 'A'.
16. RECONNECT <E>LIGHT FIXTURES TO PANEL 'A'. FURNISH AND INSTALL CONDUITS AND WIRING AS REQUIRED.
17. <E>MAIN GATE ENTRY OF SITE. COORDINATE WITH COUNTY FOR ACCESS.
18. <E>DOUBLE DOOR TO GENERATOR ROOM. CONTRACTOR SHALL REPAIR DOOR AND REAPPLY WATERPROOFING AFTER INSTALLATION.
19. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD ADJUST THE DIMENSION OF CONCRETE PAD OF GENERATOR. THERE SHALL BE 18" MIN. SPACE BETWEEN THE WALL AND THE GENERATOR FOR EXHAUST DUCT CONNECTOR. CONCRETE PAD UNDER THE GENERATOR SHALL BE SIZED PER STRUCTURAL AS MINIMUM REQUIREMENT.

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WBSE #10.10.0989
CIP #20-209

800 MHz
SEARCHLIGHT -
NEW GENERATOR

MARK	DATE	DESCRIPTION
	07/31/20	95%CD
	09/03/20	100% CD SET
1	09/15/23	ADDENDUM NO. 1

SOBE PROJECT NO:	1901467
DATE:	03/18/20
DRAWN BY:	-
CHECKED BY:	-
APPROVED BY:	-

SHEET TITLE
ELECTRICAL
SITE PLAN - NEW

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

E-1.1