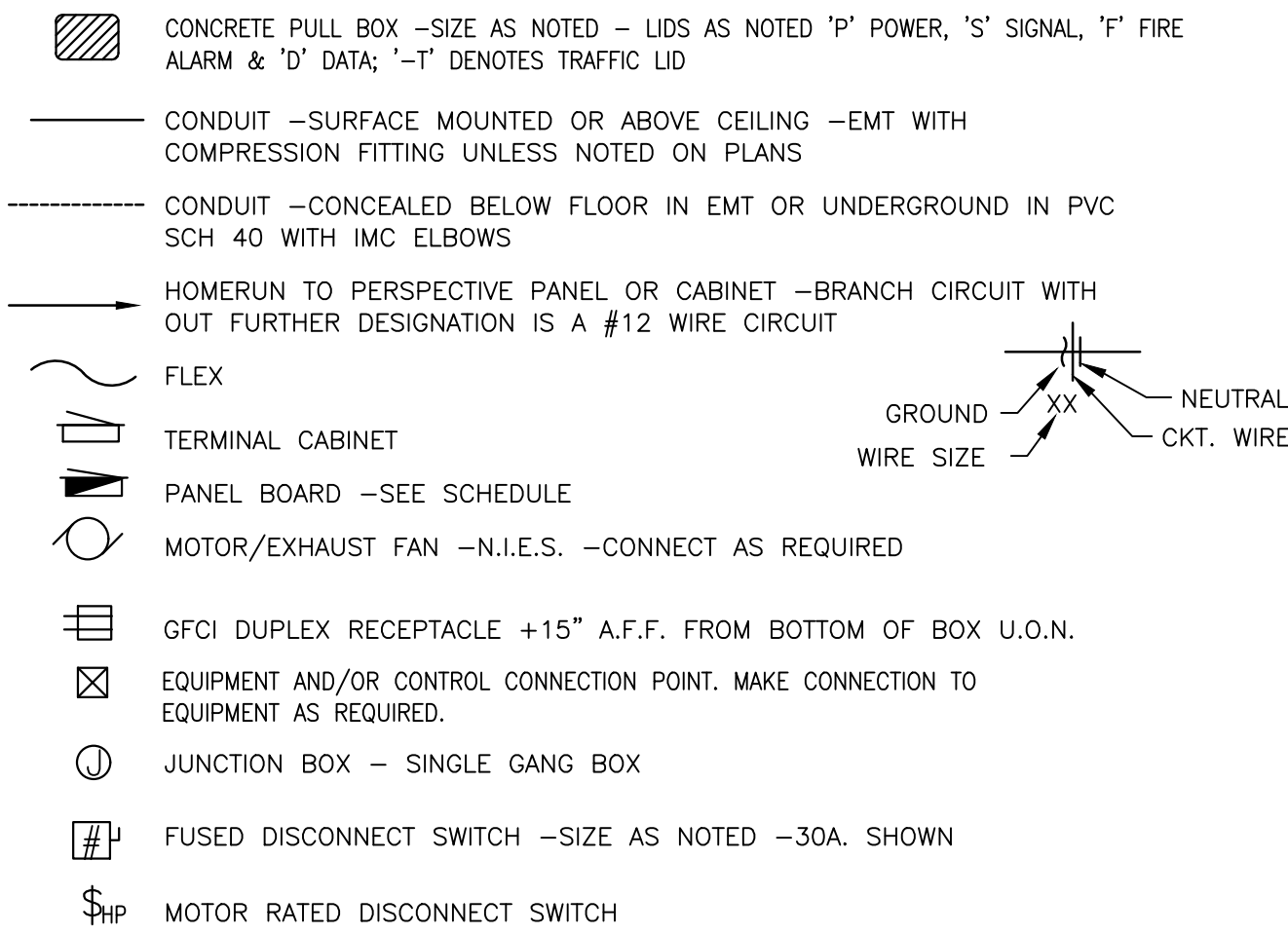


## GENERAL POWER LEGEND



## GENERAL ELECTRICAL NOTES

1. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
2. THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE. CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
3. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
4. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
5. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
6. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
7. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
8. ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASED UPON THE MOST RECENT NCA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE INVOICE LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INCREASE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
9. ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.

## ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)  
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)  
2022 CALIFORNIA BUILDING CODE (CBC)  
PART 2, TITLE 24, CCR  
BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)  
2022 CALIFORNIA ELECTRICAL CODE (CEC)  
PART 3, TITLE 24, CCR  
BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC)  
2022 CALIFORNIA MECHANICAL CODE (CMC)  
PART 4, TITLE 24, CCR  
BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)  
2022 CALIFORNIA PLUMBING CODE (CPC)  
PART 5, TITLE 24, CCR  
BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)  
2022 CALIFORNIA FIRE CODE (CFC)  
PART 9, TITLE 24, CCR  
BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)  
2022 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE  
w/ CALIFORNIA AMENDMENTS.

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

## ELECTRICAL ABBREVIATIONS

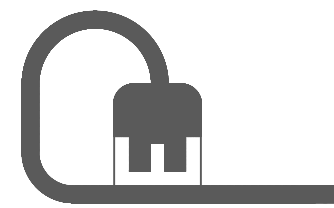
|        |                             |          |                            |       |                                           |        |                                                        |        |                          |
|--------|-----------------------------|----------|----------------------------|-------|-------------------------------------------|--------|--------------------------------------------------------|--------|--------------------------|
| Y      | DELTA CONNECTED             | CR       | CONTROL RELAY              | HI    | HIGH                                      | NAC    | NOTIFICATION APPLIANCE CIRCUIT                         | SW     | SWITCH                   |
| O      | WYE CONNECTED               | CT       | CURRENT TRANSFORMER        | HV    | HIGH VOLTAGE                              | NC     | NORMALLY CLOSED                                        | SWD    | SWITCHED                 |
|        | PHASE                       | CU       | COPPER                     | HVAC  | HEATING, VENTILATION, AIR<br>CONDITIONING | NL     | NIGHT LIGHT                                            | SP     | SPARE                    |
| A      | AMPERES                     | DC       | DIRECT CURRENT             | IDF   | INTERMEDIATE DISTRIBUTION FRAME           | OC     | ON CENTER                                              | STD    | STANDARD                 |
| AC     | ALTERNATING CURRENT         | DISC     | DISCONNECT                 |       |                                           | OH     | OVERHEAD                                               | STR    | STRANDED                 |
| ACT    | ABOVE COUNTERTOP/BACKSPLASH | DIST     | DISTRIBUTION               | INCAN | INCANDESCENT                              | OL     | THERMAL OVERLOAD RELAY                                 | SWBD   | SWITCHBOARD              |
| AFF    | ABOVE FINISHED FLOOR        | (E)      | EXISTING                   | INST  | INSTANTANEOUS                             | OT     | OVER TEMPERATURE                                       | TEL    | TELEPHONE                |
| AL     | ALUMINUM                    | EC       | ELECTRICAL CONTRACTOR      | KV    | KILOVOLTS                                 | OSHPD  | OFFICE OF STATEWIDE HEALTH<br>PLANNING AND DEVELOPMENT | TEMP   | TEMPERATURE              |
| APPROX | APPROXIMATE                 | EL, ELEV | ELEVATION                  | KVA   | KILOVOLT AMPERES                          | PA     | PUBLIC ADDRESS                                         | TH     | THERMOSTAT               |
| AUTO   | AUTOMATIC                   | ELECT    | ELECTRICAL                 | KW    | KILOWATTS                                 |        |                                                        | TRANSF | TRANSFORMER              |
| AUX    | AUXILIARY                   | EMT      | ELECTRICAL METALLIC TUBING | LB    | ELBOW                                     | PB     | PULL BOX                                               | TYP    | TYPICAL                  |
| ALT    | ALTERNATE                   | EOL      | END OF LINE                |       |                                           | PB     | PULL BOX                                               | TSP    | TWISTED SHIELDED PAIR    |
| AWG    | AMERICAN WIRE GAUGE         | ENCL     | ENCLOSURE                  | LF    | LINEAR FEET                               | PNL    | PANEL                                                  | UG     | UNDERGROUND              |
| B      | BARE                        | EP       | EXPLOSION PROOF            | LV    | LOW VOLTAGE                               | PH     | PHASE                                                  | UNO    | UNLESS NOTED OTHERWISE   |
|        | BARE COPPER GROUND          | EQUIP    | EQUIPMENT                  | M     | MOTOR                                     | PRI    | PRIMARY                                                |        |                          |
| BC     | BARE COPPER GROUND          | ETC      | ET CETERA                  | MAX   | MAXIMUM                                   | PS     | PRESSURE SWITCH                                        | V      | VOLTS                    |
| BKBD   | BACKBOARD                   | EVAP     | EVAPORATOR                 | MCA   | MINIMUM CIRCUIT AMPS                      | PWR    | POWER                                                  | VA     | VOLT AMPS                |
| BRKR   | BREAKER                     | (F)      | FUTURE                     | MCC   | MOTOR CONTROL CENTER                      | (R)    | REMOVE(D)                                              | VFD    | VARIABLE FREQUENCY DRIVE |
| BLDG   | BUILDING                    |          |                            | FA    | FIRE ALARM                                | MCM    | THOUSAND CIRCULAR MILLS                                | RA     | REMOTE ANNUNCIATOR       |
| C      | CONDUIT OR CONTRACTOR       | FACP     | FIRE ALARM CONTROL PANEL   | MECH  | MECHANICAL                                | REQD   | REQUIRED                                               | W/     | WITH                     |
| CAB    | CABINET                     | FLA      | FULL LOAD AMPS             | MFG   | MANUFACTURER                              | REQMTS | REQUIREMENTS                                           | W/O    | WITHOUT                  |
| CATV   | CABLE TELEVISION            | FLEX     | FLEXIBLE                   | MIN   | MINIMUM                                   | RGP    | REDUNDANT GROUND PATH                                  | WP     | WEATHERPROOF             |
| CKT    | CIRCUIT                     | FLUOR    | FLUORESCENT                | MPOE  | MAIN POINT OF ENTRY                       | RM     | ROOM                                                   | WHD    | WATT HOUR DEMAND METER   |
| CLG    | CEILING                     | FS       | FLOW SWITCH                | MSB   | MAIN SWITCHBOARD                          | RECP   | RECEPTACLE                                             | WM     | WATT METER               |
| COMM   | COMMUNICATION               | GALV     | GALVANIZED                 | SCH   | SCHEDULE                                  | SEC    | SECONDS, SECONDARY                                     | WH     | WATER HEATER             |
| CONN   | CONNECT                     |          |                            | N     | NEUTRAL                                   | SIG    | SIGNAL                                                 | SIG    | SIGNAL                   |
| CONT   | CONTINUATION OR CONTINUED   | GND      | GROUND                     | (N)   | NEW                                       | SPECS  | SPECIFICATIONS                                         | (XR)   | REMOVE AND RELOCATE(D)   |
| COORD  | COORDINATE                  | GC       | GENERAL CONTRACTOR         | NA    | NON-AUTOMATIC                             |        |                                                        |        |                          |



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CHECKED: KP

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| REVISIONS: | BY |
|------------|----|

**CLIENT**

# NORTHGATE SEWER LIFT STATION EMERGENCY POWER IMPROVEMENTS

CITY OF LOS BANOS  
MERCED COUNTY, CA

## PROJECT

23-944

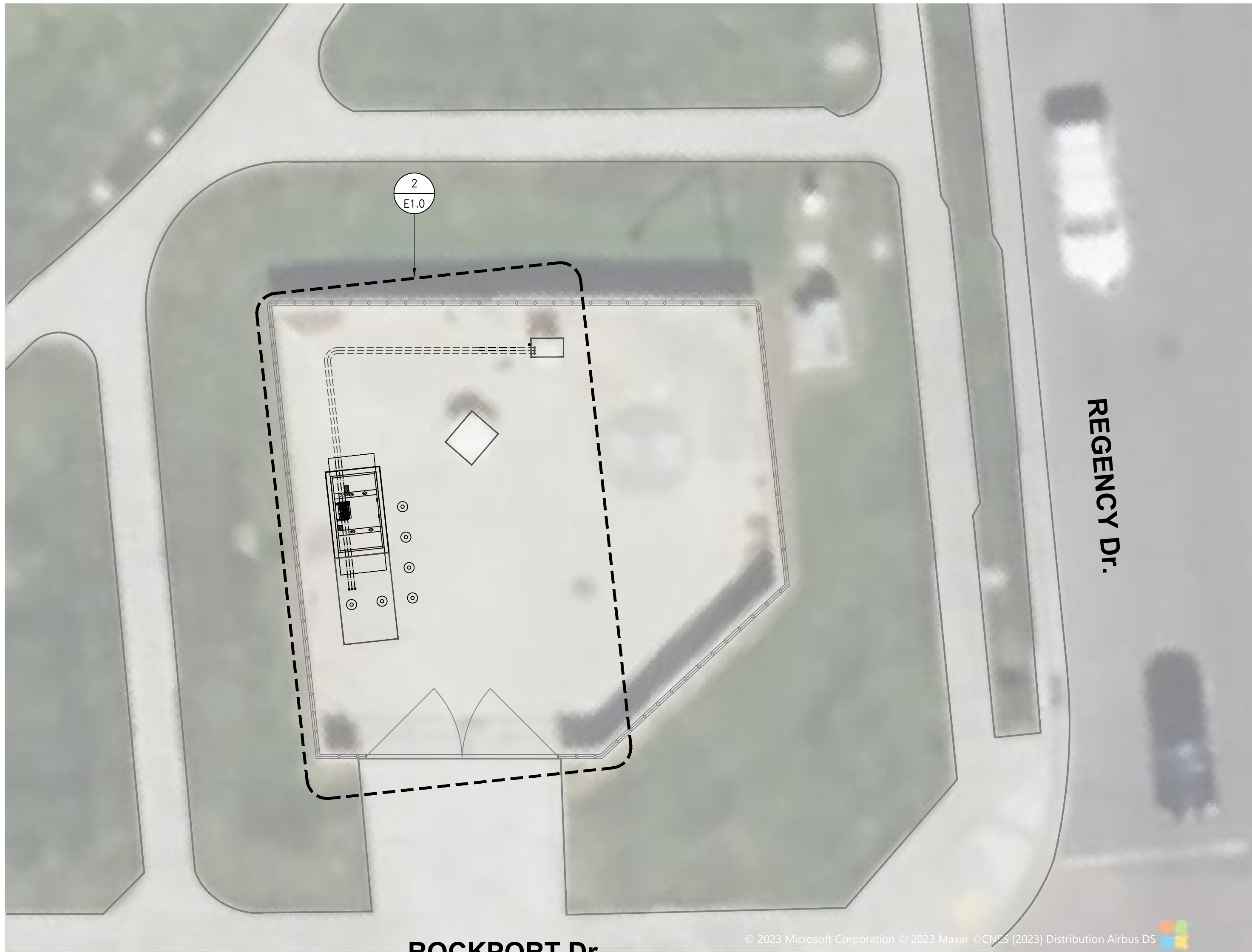
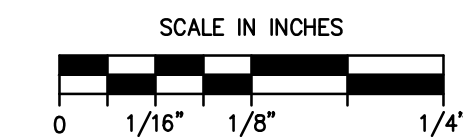
**SHEET TITLE**

ELECTRICAL COVER SHEET

SHEET NO. --

# EO. 1

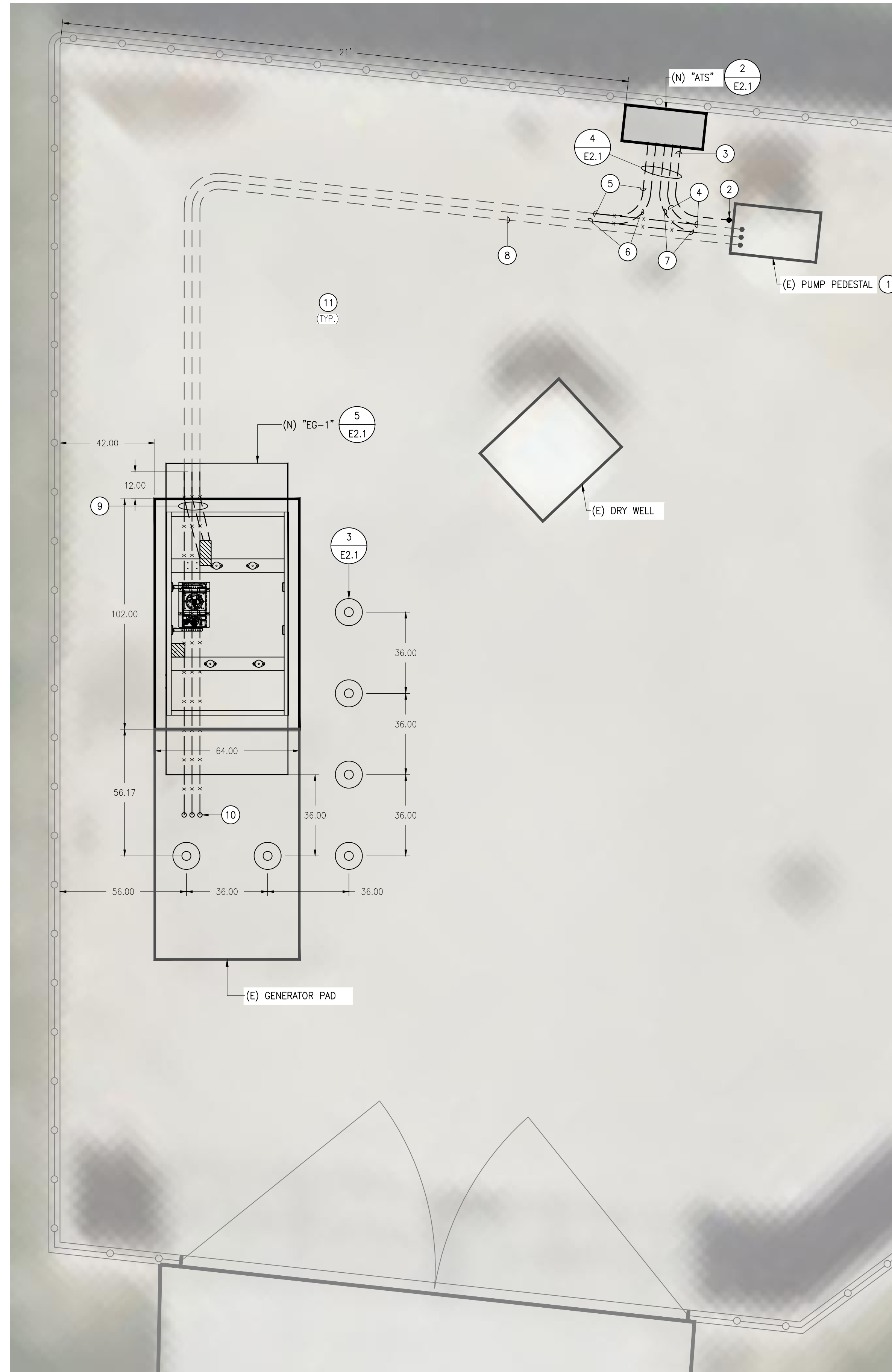
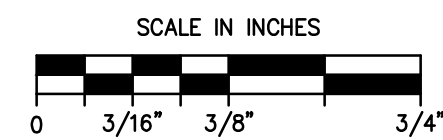




1 SITE PLAN  
SCALE: 1/8"=1'-0"

## PLAN NOTES:

- (E) PUMP PEDESTAL (200A, 277/480V, 3PH 4W) -REPLACE (2X) (E) 15A-1P BREAKERS W/(1X) (N) 15A-1P (TWIN) FOR (E) LOADS & INSTALL (N) 20A-1P (TWIN) FOR (N) GENSET 120V CIRCUITS.
- (N) LB & RMC RISERS INTO SIDE OF (E) PUMP PEDESTAL.
- (N) 1 "C.O. W/PULL STRING FOR (F) SCADA CONTROLS.
- INTERCEPT IN TRENCH (E) 2 "C W/UTILITY FEEDER PER SINGLE LINE DIAGRAM & ROUTE (N) TO (N) ATS.
- INTERCEPT IN TRENCH (E) 2 "C W/EMERGENCY FEEDER PER SINGLE LINE DIAGRAM & ROUTE (N) TO (N) ATS.
- INTERCEPT IN TRENCH (E) 2 "C W/(N) 4 #14 THWN FOR GENSET START & (F) EPO SWITCH & ROUTE TO (N) TO (N) ATS.
- INTERCEPT IN TRENCH (E) 2 "C W/LOAD FEEDER PER SINGLE LINE DIAGRAM & ROUTE (N) TO (N) ATS.
- (N) 1 "C W/120V CIRCUITS. TO (N) GENSET -SEE SINGLE LINE DIAGRAM FOR CONDUCTORS.
- INTERCEPT (E) 2-2 "C & 3/4 "C CONDUIT TO (N) GENSET STUB-UP LOCATION.
- ABANDON (E) CONDUITS IN PLACE & FILL W/GROUT.
- SAW CUT (E) CONCRETE TO INSTALL (N) CONDUITS & GENERATOR PAD AS SHOWN -REPAIR BACK IN KIND PER CITY'S STANDARD DETAILS & SPECIFICATIONS.

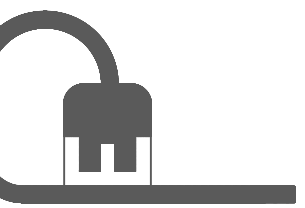


2 ENLARGED PLOT PLAN  
SCALE: 3/8"=1'-0"



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EMERGENCY POWER IMPROVEMENTS

CITY OF LOS BANOS MERCED COUNTY, CA

PROJECT

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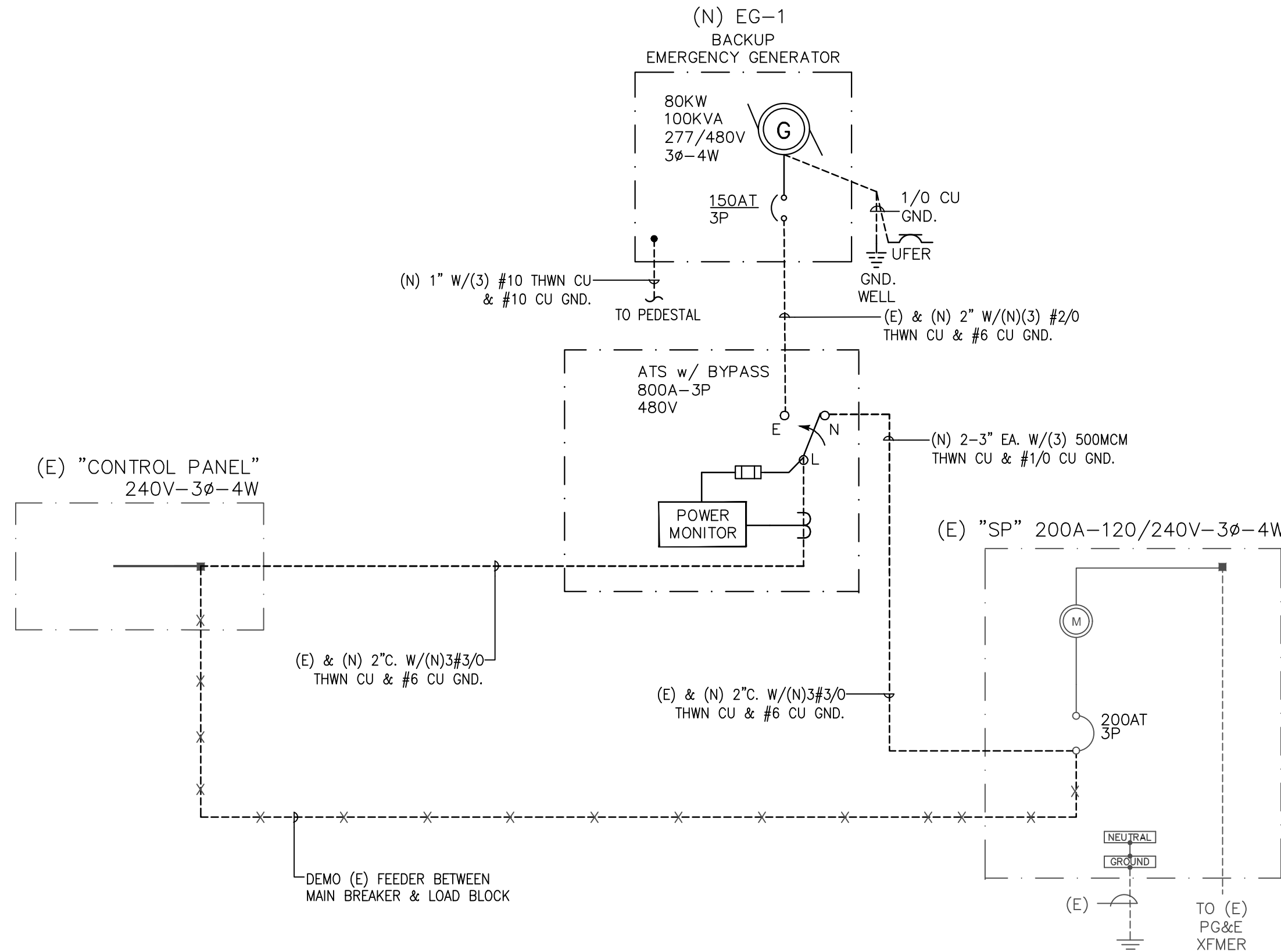
SHEET TITLE

PARTIAL SITE PLAN

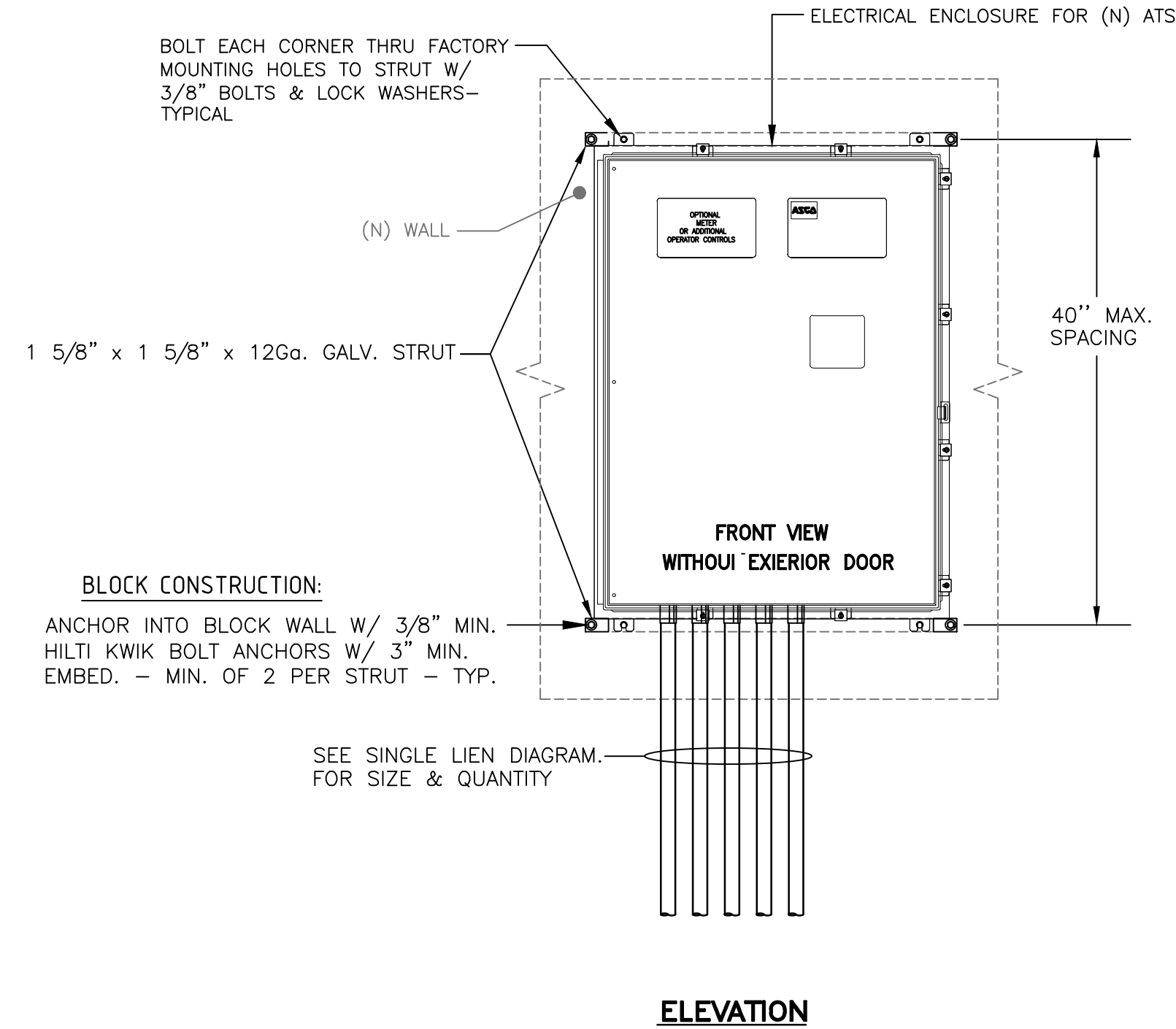
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E1.0

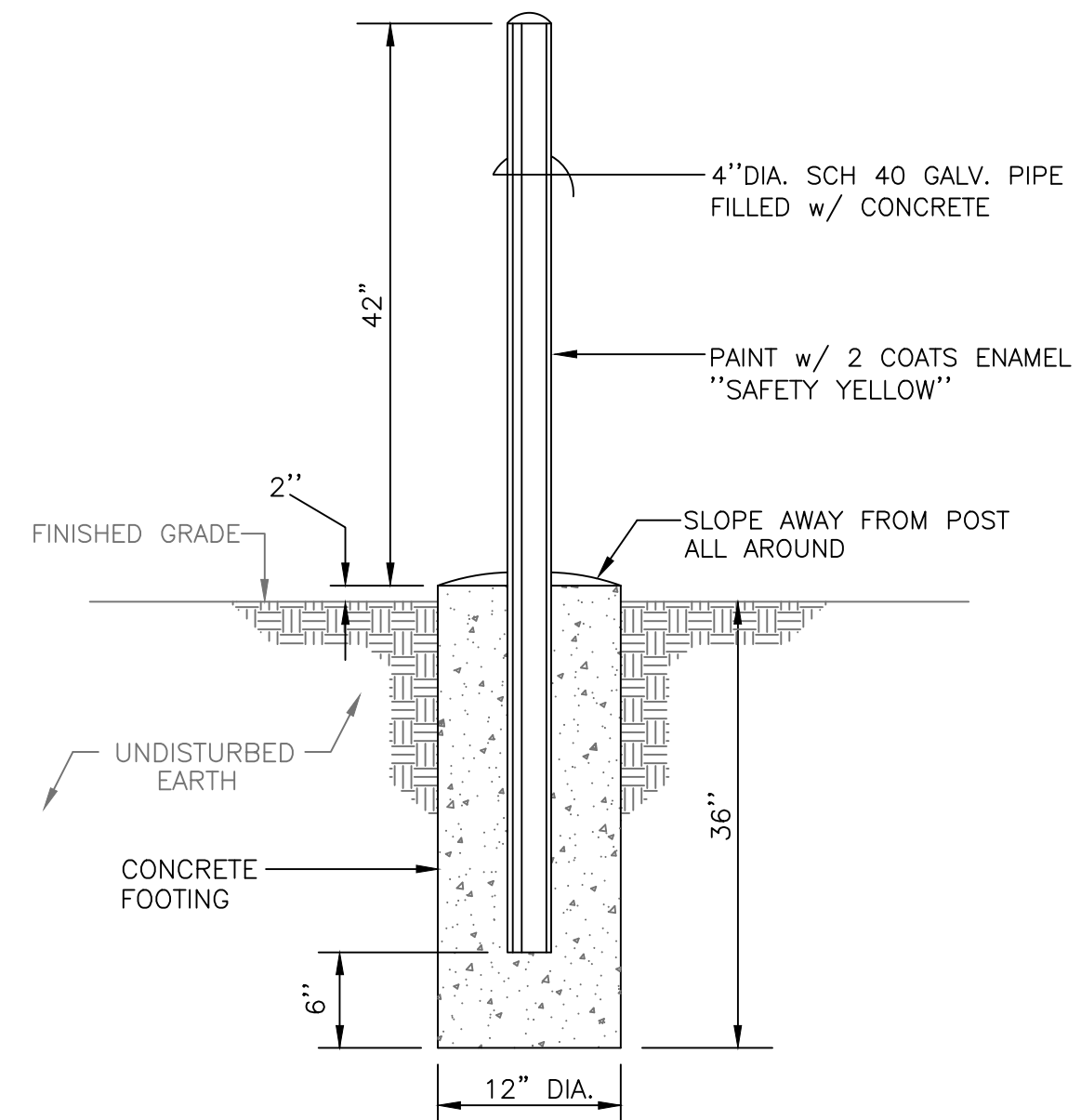




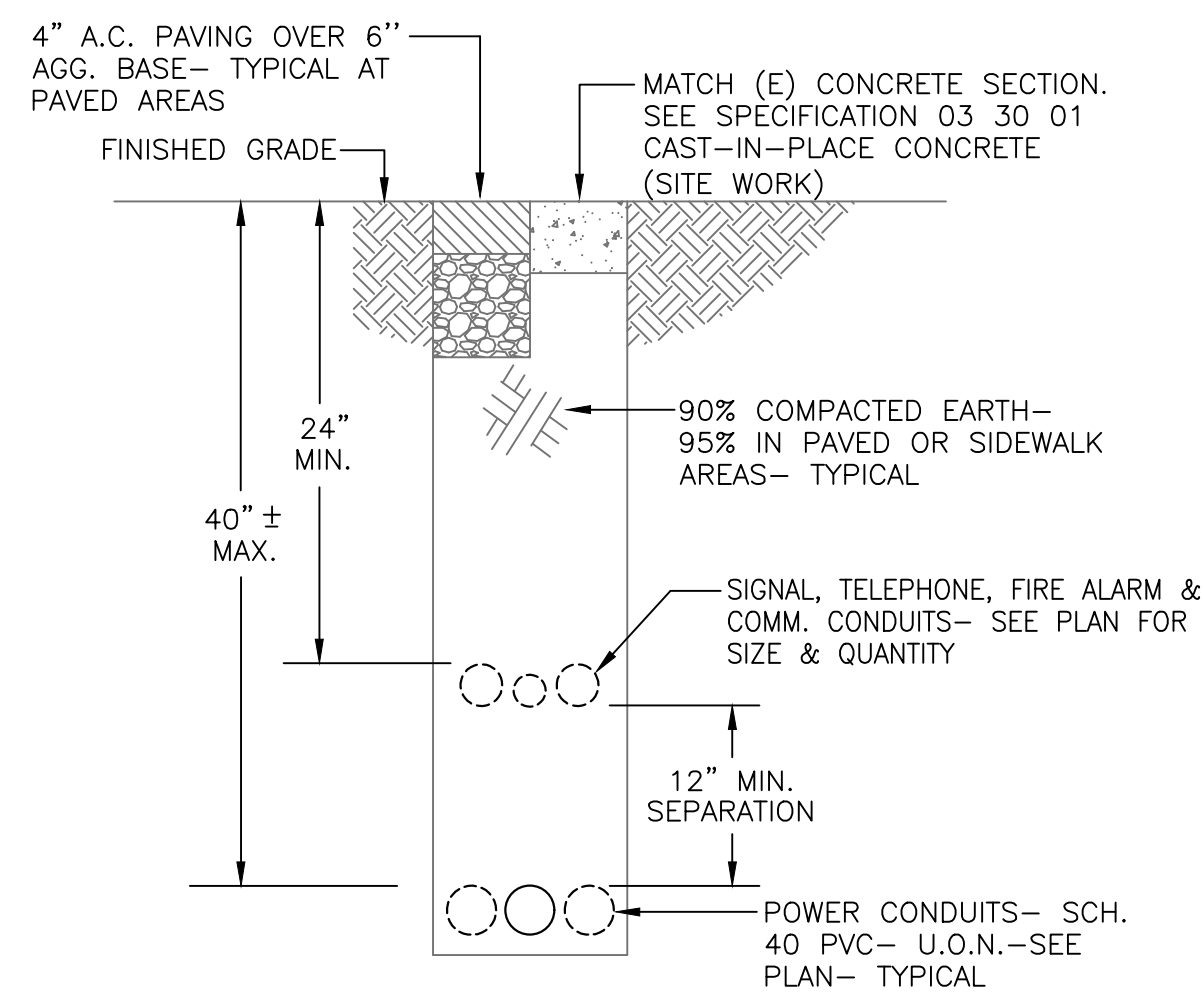
1 SINGLE LINE DIAGRAM  
SCALE: NTS



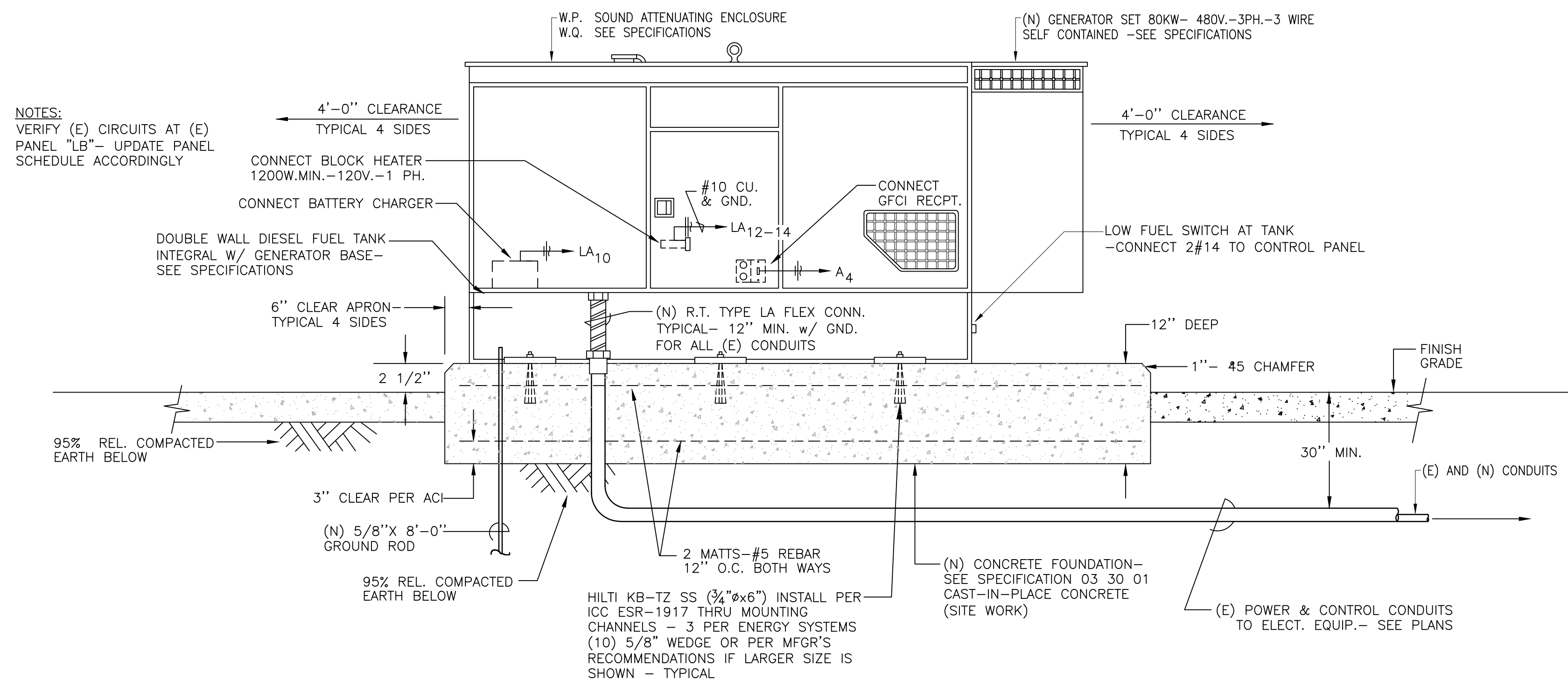
2 SURFACE PANEL MOUNTING DETAIL  
SCALE: NTS



3 NON-REMOVABLE GUARD POST  
SCALE: NTS



4 ELEC. TRENCH SECTION  
SCALE: NTS



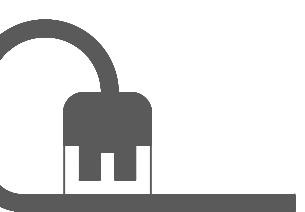
SECTION

5 NEW GEN-SET AND FOUNDATION  
SCALE: NTS



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PROJECT

23-944

SHEET TITLE

DETAILS

SHEET NO. --

**E2.1**