

City of Fairview Fire Station #2

1200 Stacy Road
Fairview, Texas 75069

GENERATOR UPGRADES ISSUE FOR BIDDING AND CONSTRUCTION 11.03.2023



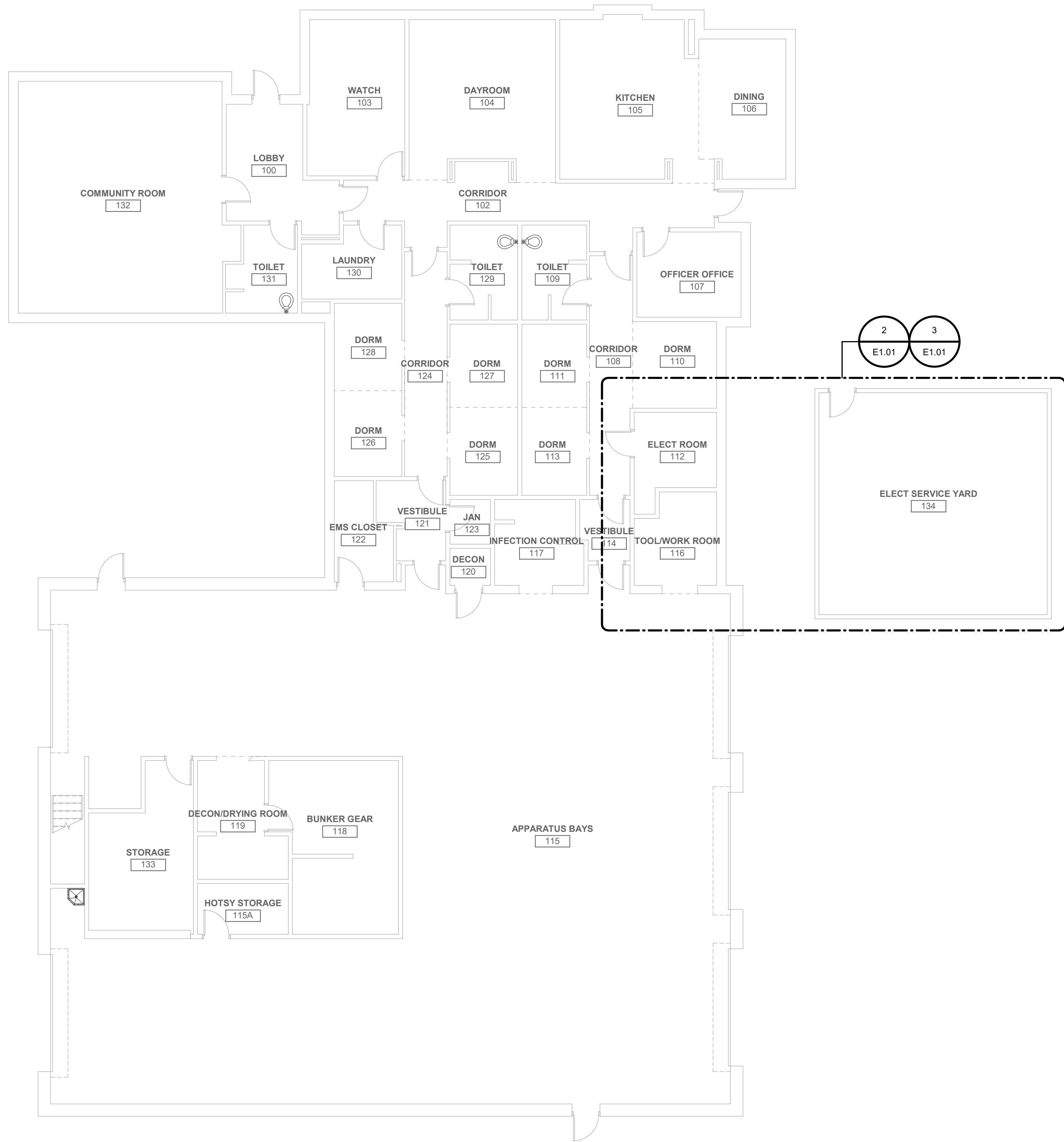
Consulting Engineers

12222 Merit Dr Suite 400 Dallas, TX 75251 TX Firm #F-2176 (972) 788-4222 Project 23110-00

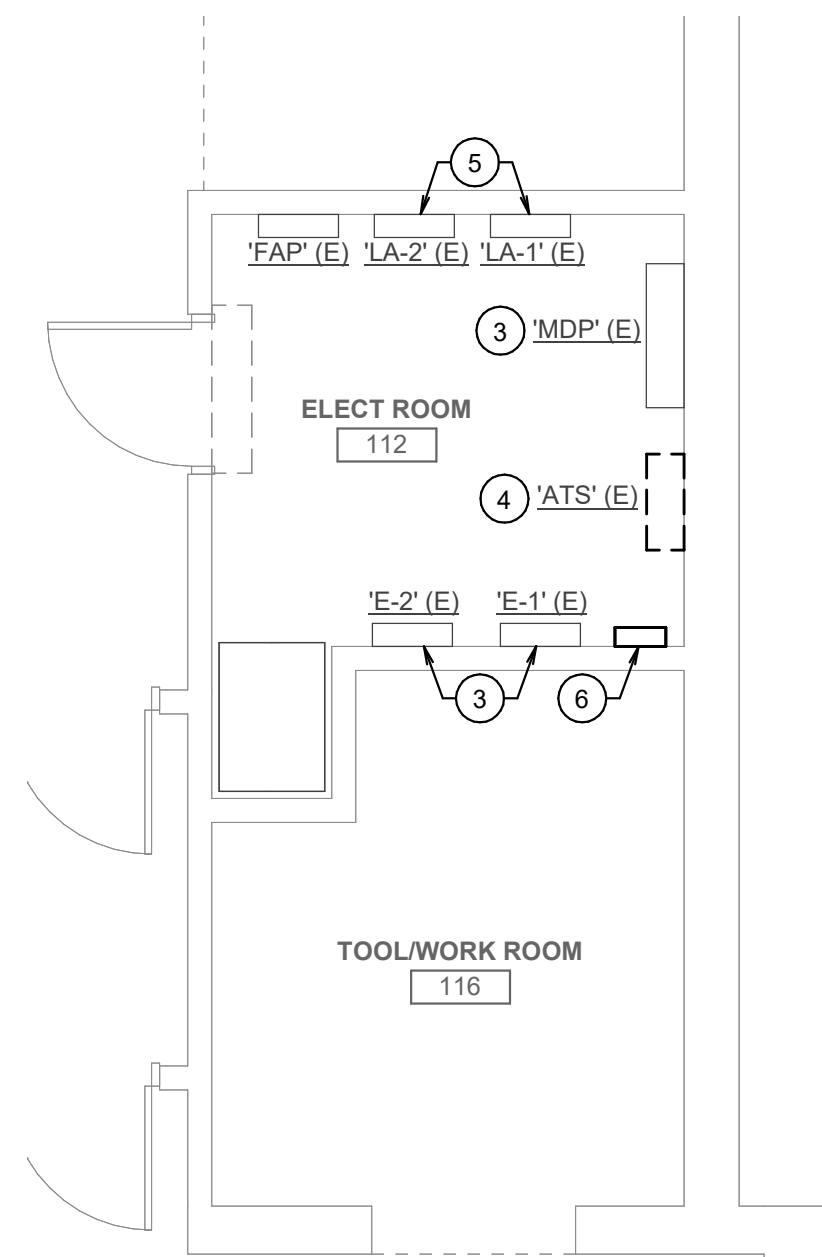
PROJECT SHEET LIST

SHEET NO.	SHEET NAME
26 - Electrical	
E0.00	GENERAL NOTES & LEGEND - ELECTRICAL
E1.01	FLOOR PLANS - ELECTRICAL
E2.01	ONE-LINE AND DETAILS - ELECTRICAL
Grand total: 3	

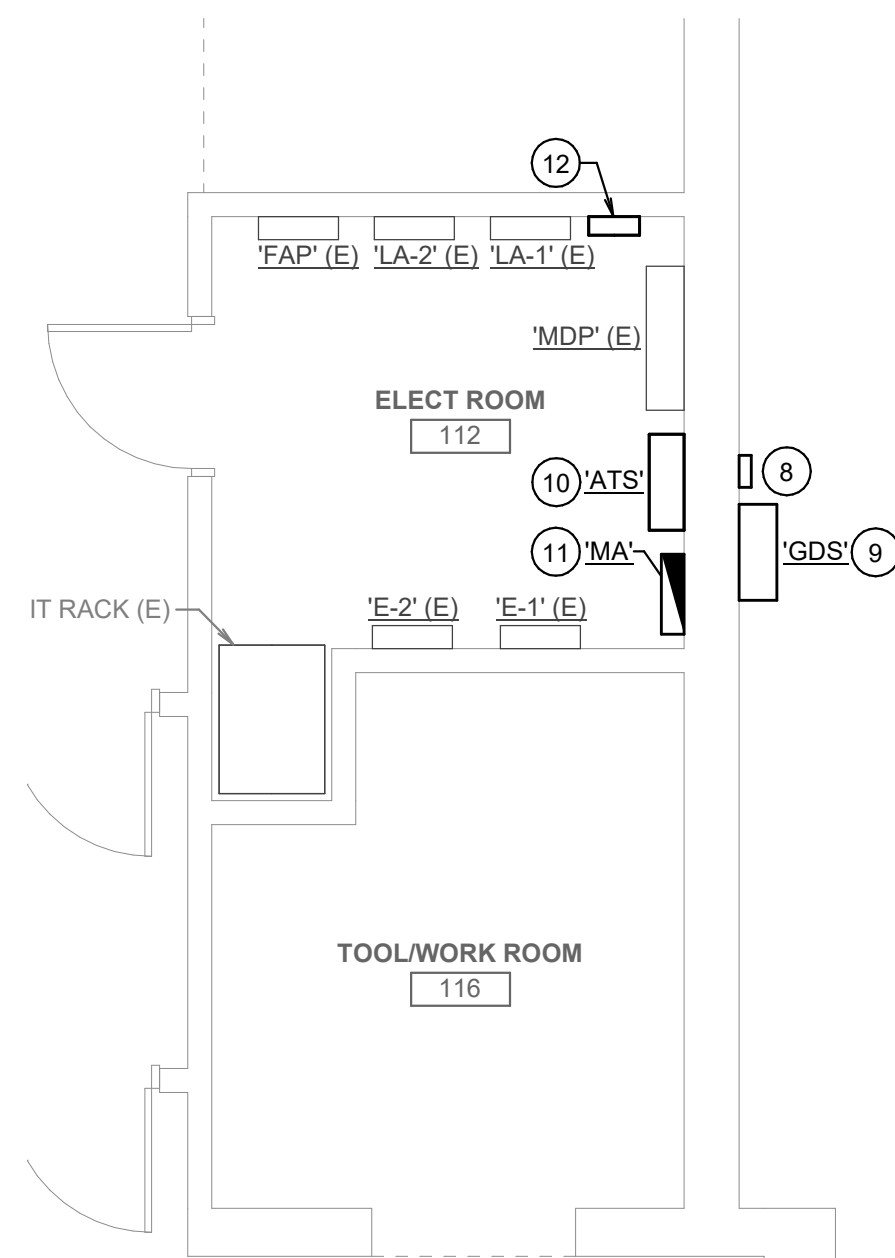




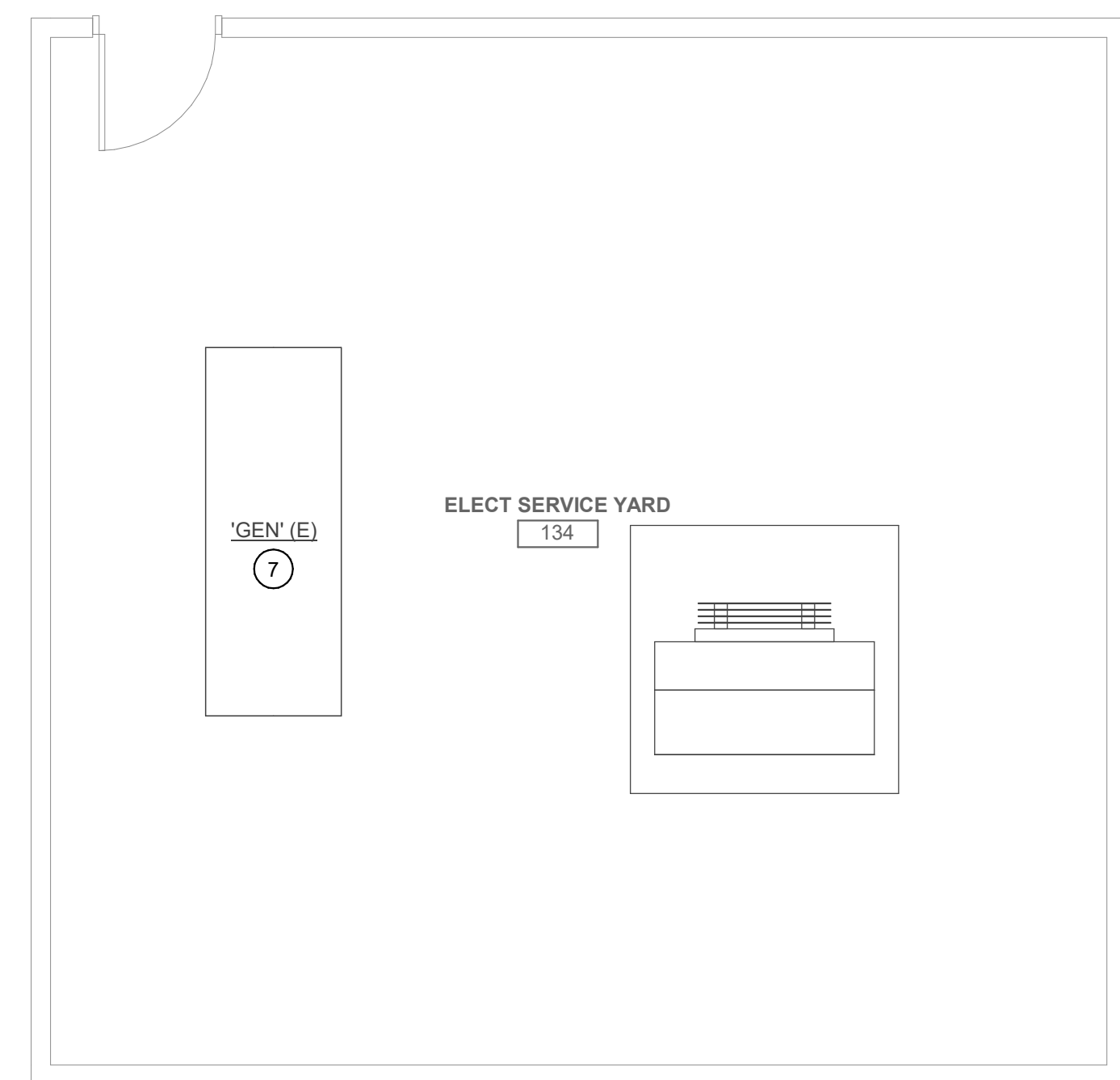
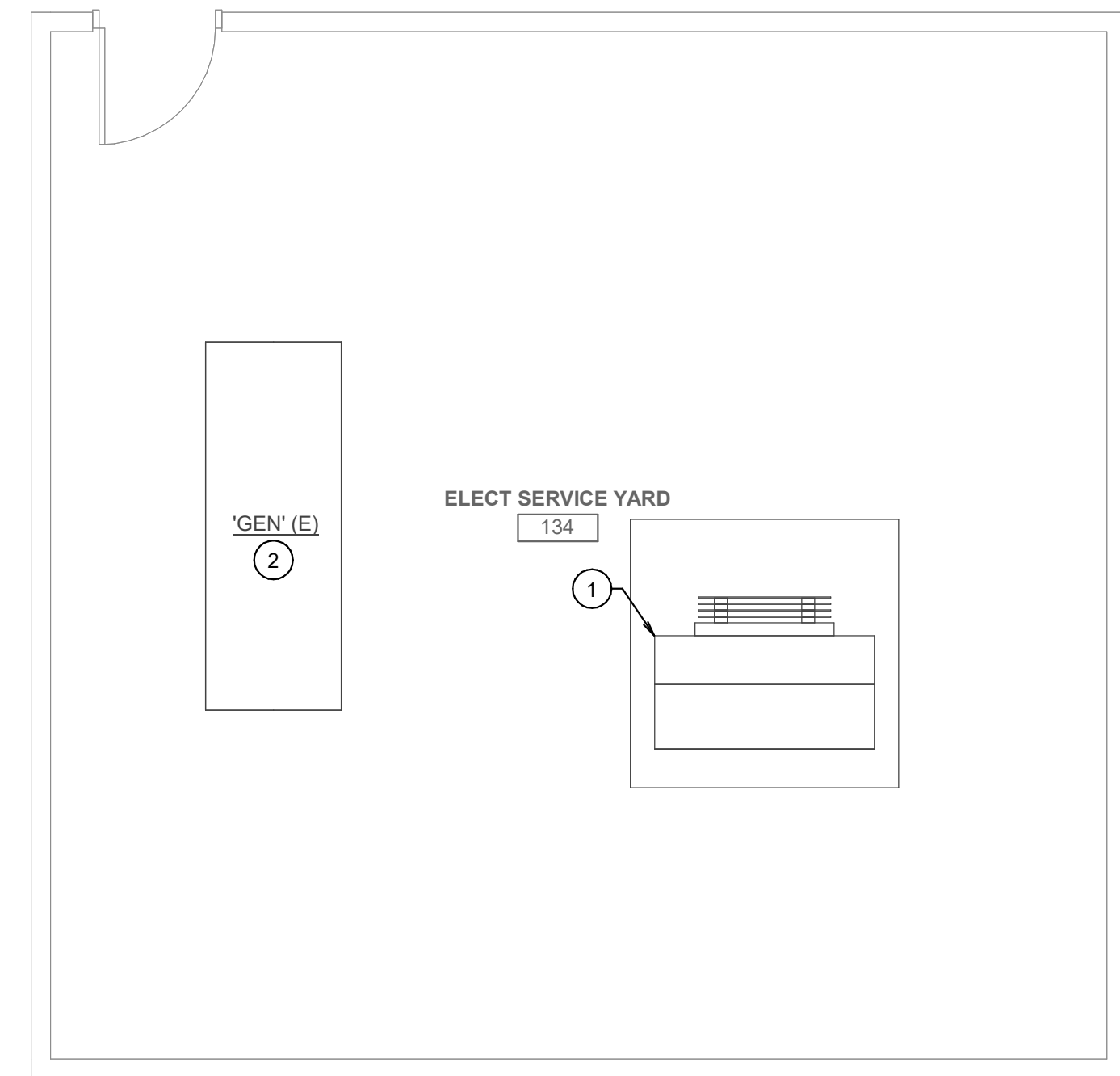
PLAN NORTH TRUE NORTH
1 FLOOR PLAN - LEVEL 1 - ELECTRICAL
SCALE: 1/8" = 1'-0"



PLAN NORTH TRUE NORTH
2 ENLARGED DEMOLITION FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



PLAN NORTH TRUE NORTH
3 ENLARGED FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



NOTES BY SYMBOL 'O':

- EXISTING UTILITY TRANSFORMER TO REMAIN.
- EXISTING GENERATOR TO REMAIN.
- EXISTING ELECTRICAL PANEL TO REMAIN. EXISTING FEEDERS TO BE MODIFIED. REFER TO ELECTRICAL ONE-LINE DIAGRAM SHEET E2.01 FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING AUTOMATIC TRANSFER SWITCH. REFER TO ELECTRICAL ONE-LINE DIAGRAM SHEET E2.01 FOR ADDITIONAL INFORMATION.
- EXISTING ELECTRICAL PANEL AND ASSOCIATED FEEDER TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND RELOCATED TO PROVIDE ROOM FOR NEW ELECTRICAL PANEL TO BE INSTALLED ON THE ADJACENT WALL. REFER TO FLOOR PLAN 3 ON THE SAME SHEET FOR ADDITIONAL INFORMATION.
- TEST EXISTING GENERATOR AND ADD NEW PROPANE VAPORIZER TO ENSURE GENERATOR WILL START IN COLD WEATHER CONDITIONS. COORDINATE TESTING AND VAPORIZER MODIFICATIONS WITH OWNER'S GENERATOR SERVICE GROUP.
- NEW ENCLOSED CIRCUIT BREAKER. REFER TO ELECTRICAL ONE-LINE DIAGRAM SHEET E2.01 FOR ADDITIONAL INFORMATION.
- NEW GENERATOR DOCKING STATION. REFER TO ELECTRICAL ONE-LINE DIAGRAM SHEET E2.01 FOR ADDITIONAL INFORMATION.
- NEW AUTOMATIC TRANSFER SWITCH. REFER TO ELECTRICAL ONE-LINE DIAGRAM SHEET E2.01 FOR ADDITIONAL INFORMATION.
- NEW PANELBOARD. REFER TO ELECTRICAL ONE-LINE DIAGRAM SHEET E2.01 FOR ADDITIONAL INFORMATION.
- NEW LOCATION OF EXISTING ELECTRICAL EQUIPMENT PREVIOUSLY LOCATED ON THE SOUTH WALL. EXTEND EXISTING CONDUIT AND WIRING AS NEEDED.



11.03.2023

REVISIONS



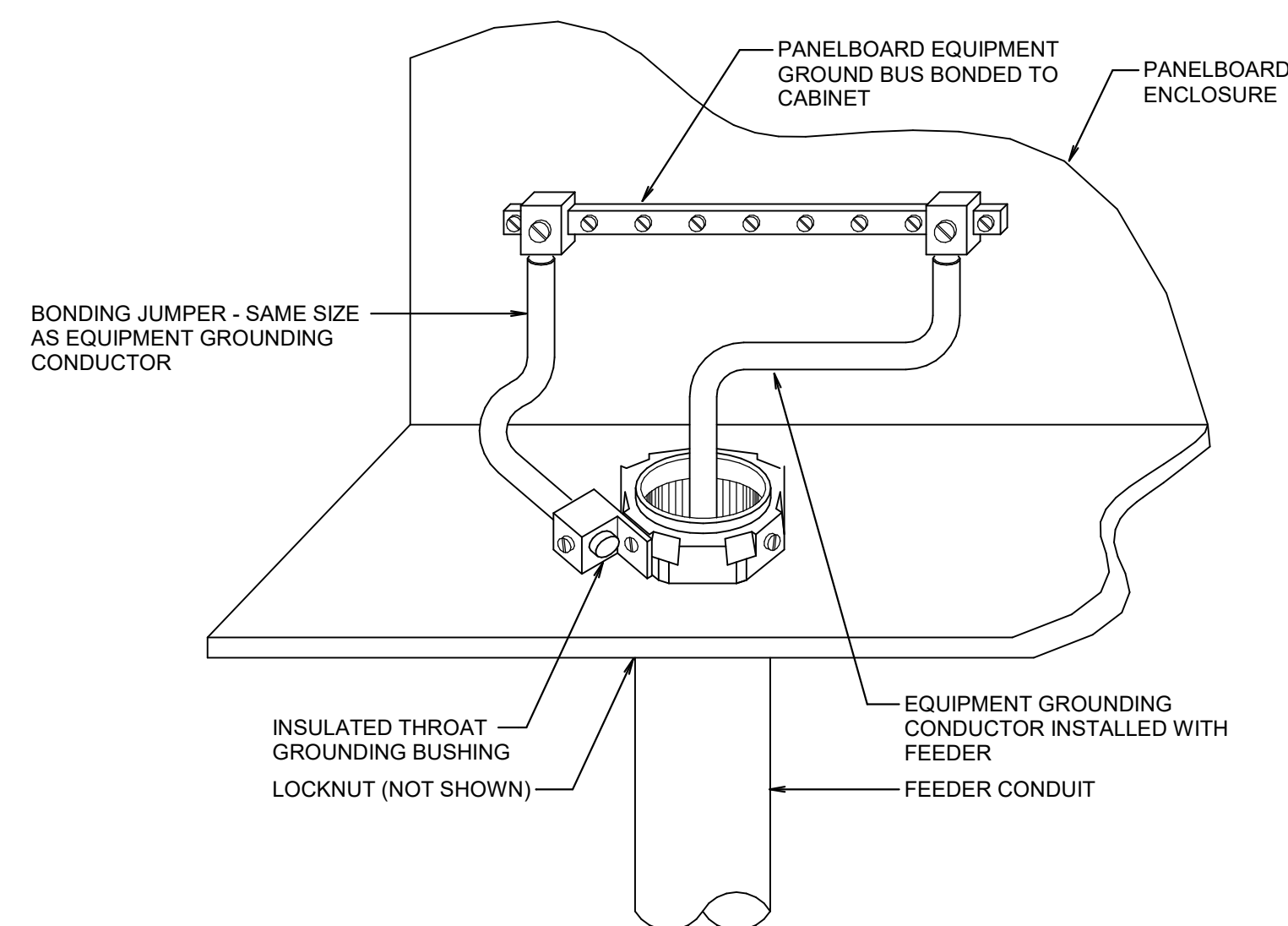
GENERATOR UPGRADES
TOWN OF FAIRVIEW, TEXAS
1200 Stacy Road
Fairview, Texas 75069

FLOOR PLANS - ELECTRICAL

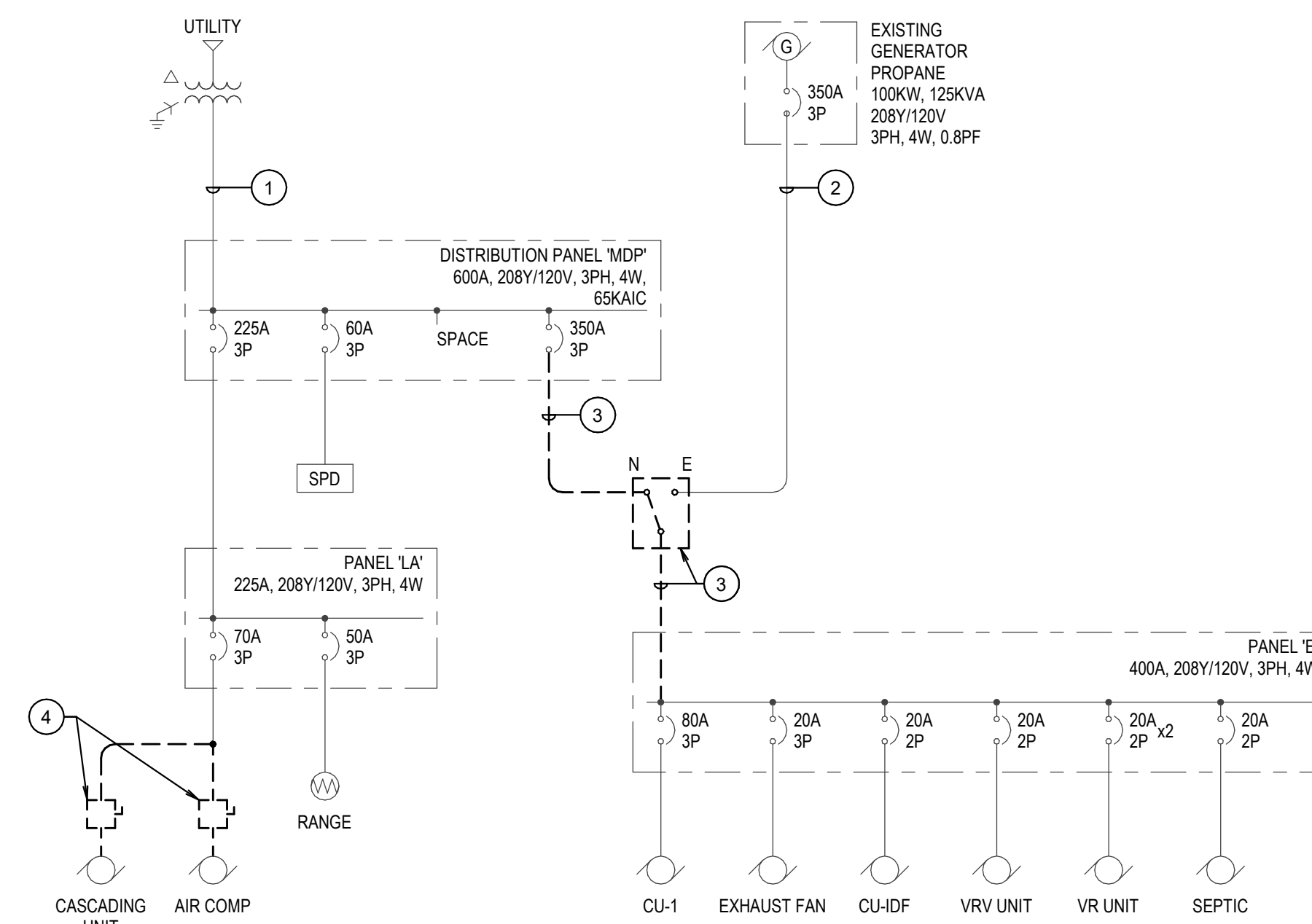
DRAWN BY: PH
CHECKED BY: MD
APPROVED BY: DM

SHEET NO.

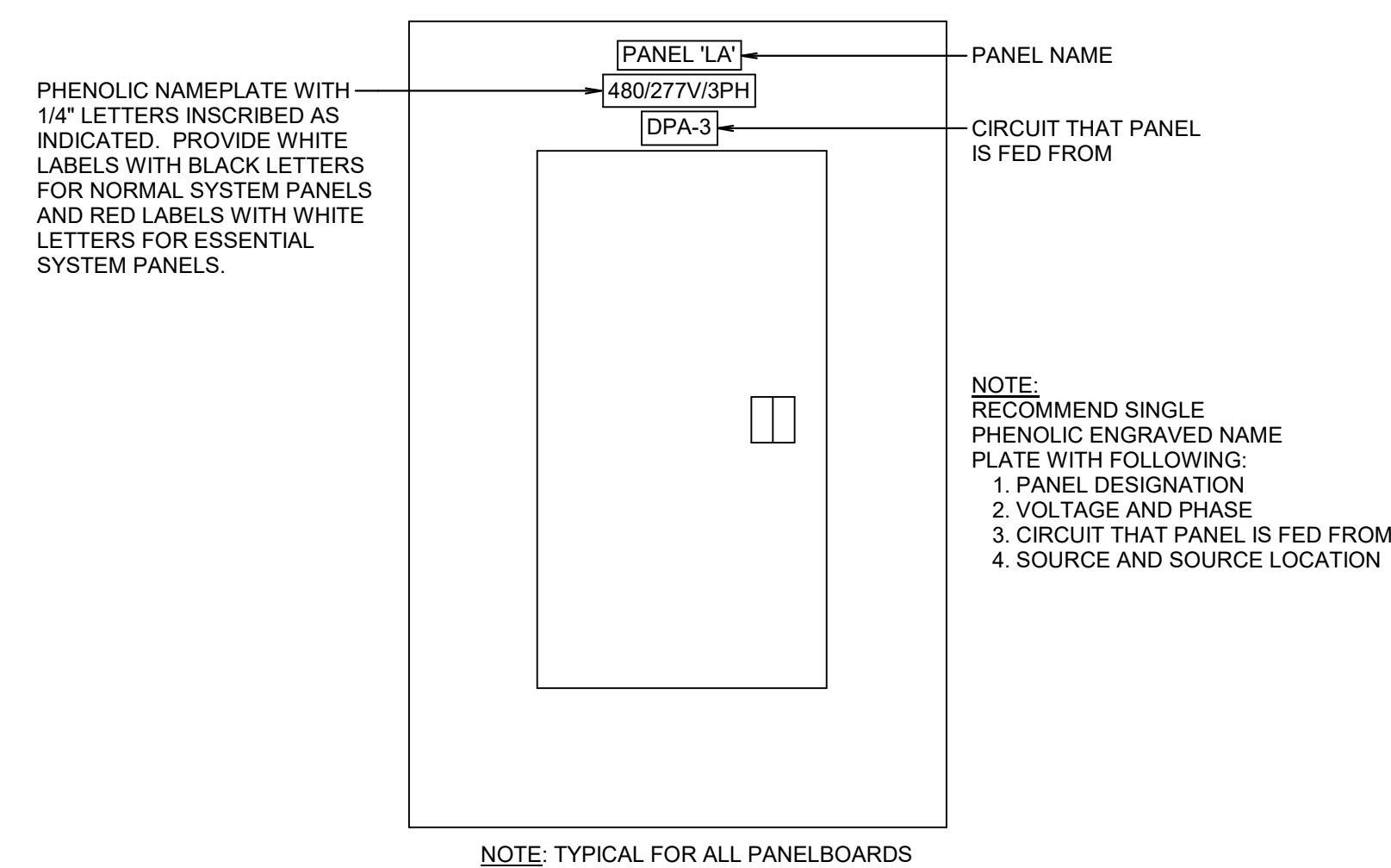
E1.01



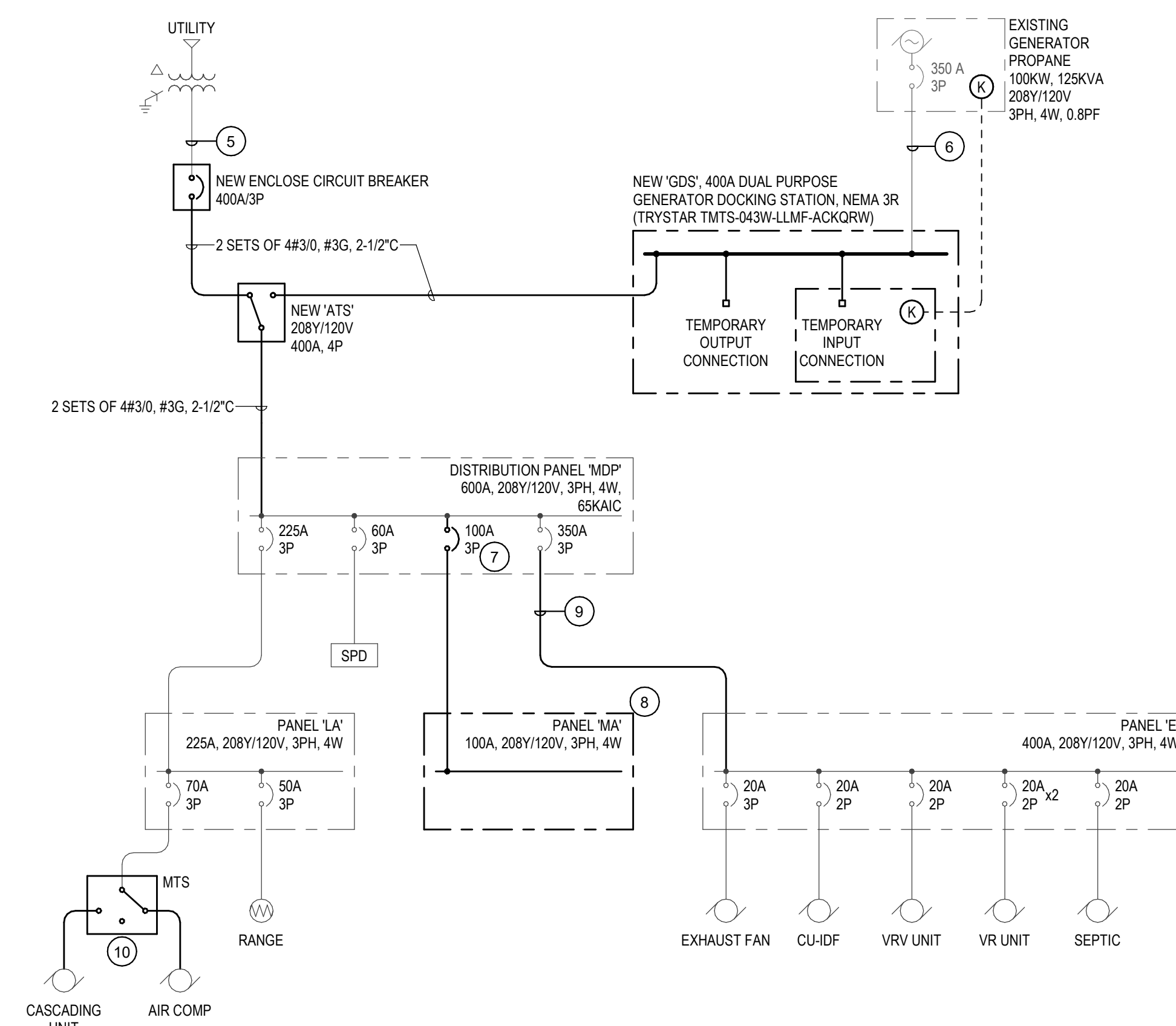
3 PANELBOARD BONDING DETAIL



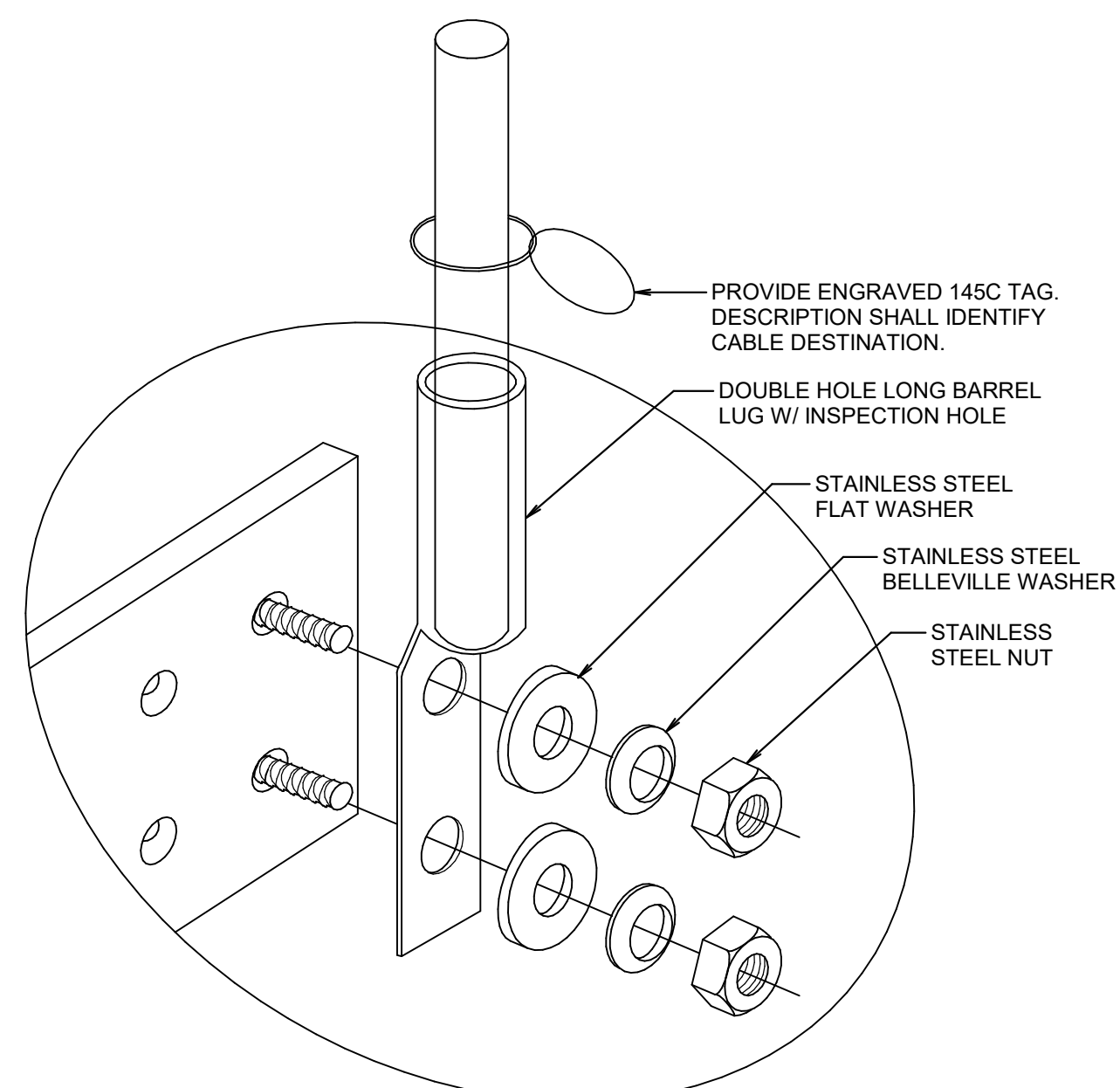
1 DEMOLITION ELECTRICAL ONE-LINE DIAGRAM



4 PANELBOARD IDENTIFICATION DETAIL



2 ELECTRICAL ONE-LINE DIAGRAM



5 GROUND BUS BAR CONNECTION

NOTES BY SYMBOL '○':

- 1 NEW SERVICE DISCONNECT SWITCH WILL INTERCEPT SECONDARY FEEDER OUTSIDE OF THE BUILDING. EXISTING CONDUITS TO BE INTERCEPTED AND EXTENDED AS NEEDED. PREPARE EXISTING CONDUCTORS FOR EXTENSION TO NEW SERVICE DISCONNECT SWITCH.
- 2 NEW DOCKING STATION WILL INTERCEPT FEEDER OUTSIDE OF THE BUILDING. EXISTING CONDUITS TO BE INTERCEPTED AND EXTENDED AS NEEDED. PREPARE EXISTING CONDUCTORS FOR EXTENSION TO NEW DOCKING STATION.
- 3 REMOVE EXISTING AUTOMATIC TRANSFER SWITCH. DISCONNECT AND REMOVE EXISTING CONDUCTORS, RACEWAYS, HANGERS, AND SUPPORTS BACK TO SOURCE.
- 4 EXISTING 60A RATED DISCONNECT SWITCH IS FEEDING EQUIPMENT THAT EXCEEDS THIS RATING. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH. EXISTING CONDUCTORS AND RACEWAY CAN BE REUSED. PREPARE FOR EXTENSION TO NEW TRANSFER SWITCH.
- 5 RECONNECT EXISTING FEEDER TO NEW SERVICE DISCONNECT SWITCH.
- 6 RECONNECT EXISTING FEEDER TO NEW GENERATOR DOCKING STATION.
- 7 PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING SPACE OF MAIN DISTRIBUTION PANELBOARD "MDP". FIELD VERIFY EXACT PANEL CONDITIONS PRIOR TO BID.
- 8 PROVIDE NEW ELECTRICAL PANEL "MA" TO SERVE HVAC LOADS UNDER THE CONCURRENT HVAC UPGRADES PROJECT. PROVIDE (4) #2 & (1) #8 GROUND IN 1-1/2" CONDUIT.
- 9 PROVIDE NEW FEEDER TO BYPASS EXISTING ATS THAT WAS REMOVED. PROVIDE (4) 500KCMIL AND (1) #3 GROUND IN 4" CONDUIT.
- 10 PROVIDE NEW 100A/3P/NF DOUBLE-THROW MANUAL TRANSFER SWITCH (MTS) TO SERVE BOTH THE EXISTING AIR COMPRESSOR AND THE EXISTING EXHAUST FAN. EXISTING SYSTEMS TO REMAIN. EXISTING CONDUCTORS AND CONDUIT AS REQUIRED.



1.03.2023

REVISIONS



GENERATOR UPGRADES

WN OF FAIRVIEW, TEXAS
1200 Stacy Road
Fairview, Texas 75069

ONE-LINE AND
DETAILS -
ELECTRICAL

DRAWN BY: PH
CHECKED BY: MD
APPROVED BY: DMB

SHEET NO.

E2.01