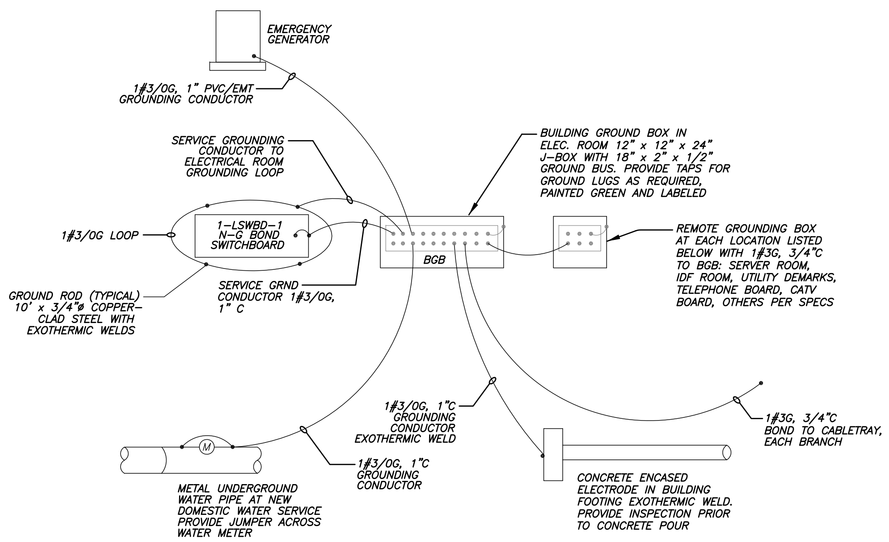


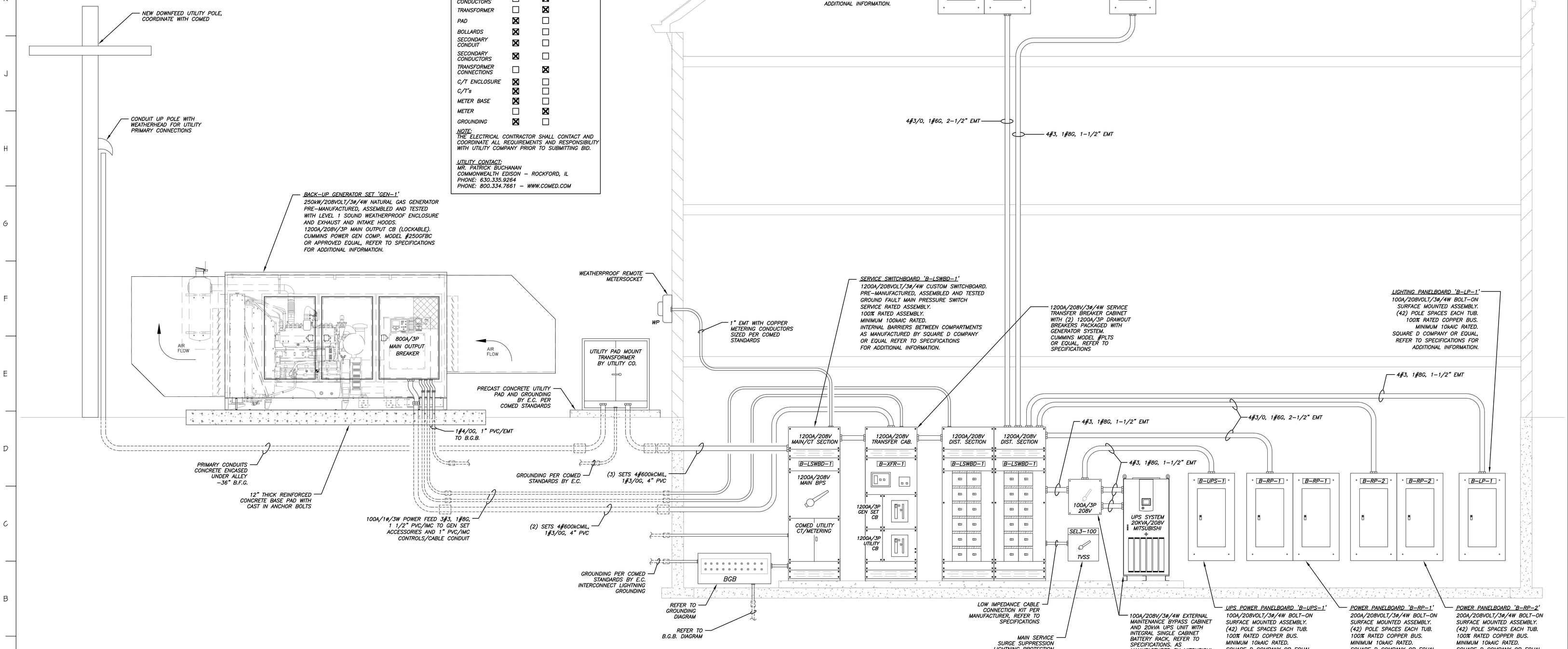
2 ELECTRICAL GROUNDING DIAGRAM

N.T.S.

INCOMING ELECTRICAL SERVICE DIVISION OF RESPONSIBILITY	ELEC. CONTR.	UTILITY CO.
PRIMARY CONDUIT	☒	☐
PRIMARY CONDUCTORS	☐	☒
TRANSFORMER	☐	☒
PAD	☒	☐
BOLLARDS	☒	☐
SECONDARY CONDUIT	☒	☐
SECONDARY CONDUCTORS	☒	☐
TRANSFORMER CONNECTIONS	☐	☒
C/T ENCLOSURE	☒	☐
C/T's	☒	☐
METER BASE	☒	☐
METER	☐	☒
GROUNDING	☒	☐

NOTE:
THE ELECTRICAL CONTRACTOR SHALL CONTACT AND COORDINATE ALL REQUIREMENTS AND RESPONSIBILITY WITH UTILITY COMPANY PRIOR TO SUBMITTING BID.

UTILITY CONTACT:
MR. PATRICK BUCHANAN
COMMONWEALTH EDISON – ROCKFORD, IL
PHONE: 630.335.9264
PHONE: 800.334.7661 – WWW.COMED.COM



1 ELECTRICAL DISTRIBUTION DIAGRAM

N.T.S.

NOTES:

1. REFER TO E0.01 FOR ELECTRICAL SYMBOL LIST AND GENERAL NOTES. REFER TO SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE ALL DEVICES, MATERIALS, LABOR, COORDINATION, ETC AS NECESSARY TO INSTALL COMPLETE AND FUNCTIONAL SYSTEMS IN COMPLIANCE WITH ALL APPLICABLE CODES, STANDARDS, AND OWNER'S REQUIREMENTS.
3. TRANSFER CABINET SHALL CONTAIN AND FUNCTION AS MAIN TRANSFER LOCATION FOR UTILITY AND GENERATOR POWER. PROVIDE PHASE MATCHING TEST UNDER SOFT-LOADING SETUP AND CONTROL SOFTWARE TO ALLOW FOR UNINTERRUPTED SWITCHING OPERATION. TRANSFER SHALL BE ACCOMPLISHED UTILIZING DRAW OUT MASTERPACT CONTROLLABLE BREAKERS. COORDINATE ALL EXACT DETAILS AND REQUIREMENTS WITH GEN SET AND SWITCHBOARD MANUFACTURERS AND PROVIDE ACCORDINGLY.
4. ALL CONDUIT WITHIN CONCRETE OR UNDERGROUND SHALL BE PVC TYPE. ALL CONDUITS WITHIN BUILDING SHALL BE STEEL EMT <3", IMC OR HWC 3" TO 5". ALL CONDUITS AT BUILDING PENETRATIONS SHALL BE GALVANIZED.
5. FEEDS NEED NOT BE SPATIALLY INSTALLED AS SHOWN. CONDUITS ABOVE/BELOW SLABS ARE AT THE DISCRETION OF THE ELECTRICAL CONTRACTOR. ALL FEEDS SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS, RACKED TIGHT, AND RUN ONLY HORIZONTAL AND PERPENDICULAR TO BUILDING STRUCTURE.
6. ALL INCLUDED DIAGRAMS ARE FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH SUPPLIERS AND ORDERING/INSTALLING ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, CODE REQUIREMENTS, DRAWING AND SPECIFICATIONS REQUIREMENTS, AND FIELD CONDITIONS TO FORM A COMPLETE FUNCTIONAL SYSTEM.
7. ALL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION SWITCHES, AND DISCONNECTS SHALL REQUIRE IDENTIFICATION LABELING.
8. PROVIDE CONTROLS CONNECTION TO THE BUILDING AUTOMATION SYSTEM TO INITIATE SHUTDOWN AND LOCKOUT OF CHILLER UNIT WHEN BUILDING IS RUNNING UNDER GENERATOR POWER BASED UPON ACTUAL LOADING. COORDINATE EXACT BETWEEN TEMPERATURE CONTROLS CONTRACTOR AND GENERATOR MANUFACTURER.
9. TVSS UNITS SHALL HAVE FACTORY START-UP WITH TEST REPORTS PREPARED/PROVIDED.
10. PROVIDE A PLAQUE AT THE INCOMING SERVICE INDICATING AN ON SITE GENERATOR.
11. PROVIDE ARC FLASH HAZARD WARNING LABELS FOR ALL ELECTRICAL PANELS.
12. ALL ELECTRICAL FEEDS LARGER THAN 60 AMPS MAY BE ALUMINUM-COPPER CLAD COMPACT CONDUCTORS. ALL FEEDS AND CIRCUITS 60 AMPS AND SMALLER SHALL BE 100% COPPER. ALL EQUIPMENT BUS MAY BE PLATED ALUMINUM WHERE LARGER THAN 60 AMPS. COORDINATE EXACT CONNECTIONS AND LUGS WITH MANUFACTURERS.
13. PROVIDE A SINGLE LIGHTNING MAST 15' ABOVE TALLEST ROOF STRUCTURE WITH TWIN DOWNFEEDS AND TWIN UNDERGROUND 10" DRIVEN ROD GROUNDING DELTAS. ALL CONNECTIONS SHALL BE CADWELDED, COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND PROVIDE INSTALLATION ACCORDINGLY.

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Wheeling, Illinois 60090
Tel. (847) 215-0640
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ISSUANCE

NO.	DATE	DESCRIPTION
1	12.11.15	BID SET
2	03.18.16	ISSUED FOR CONSTRUCTION

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FGM ARCHITECTS CHICAGO OAK BROOK OYALLON

PROFESSIONAL SEAL

EXPIRATION DATE

DATE 12.11.15
DRAWN
CHECKED
APPROVED

PROFESSIONAL DESIGN FIRM IL # 184.002368

FORMER TURNER SCHOOL BUILDING
FOR SOUTH MAIN SHOPPING CENTER
1410 BROADWAY STREET
ROCKFORD, ILLINOIS 61104

ELECTRICAL DIAGRAMS

SHEET NO.
E4.0

HAGNEY JOB NO. 1798

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