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Building #17
Campus Expansion Child Day-care Center

777 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

Gensler

1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti
120 Broadway, 15th Floor
New York, NY 10019
(917) 661-7800 Phone
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates
498 Seventh Avenue
New York, NY 10018
(212) 615-3600 Phone
(212) 615-3700 Fax

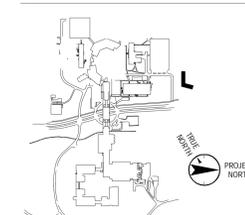
Civil Engineer

JMC
120 Bedford Road
Armonk, NY 10504
(914) 273-5225 Phone
(914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 36th West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No.	Date	Description
0	06.30.2022	ISSUED FOR PERMIT
1	06.30.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

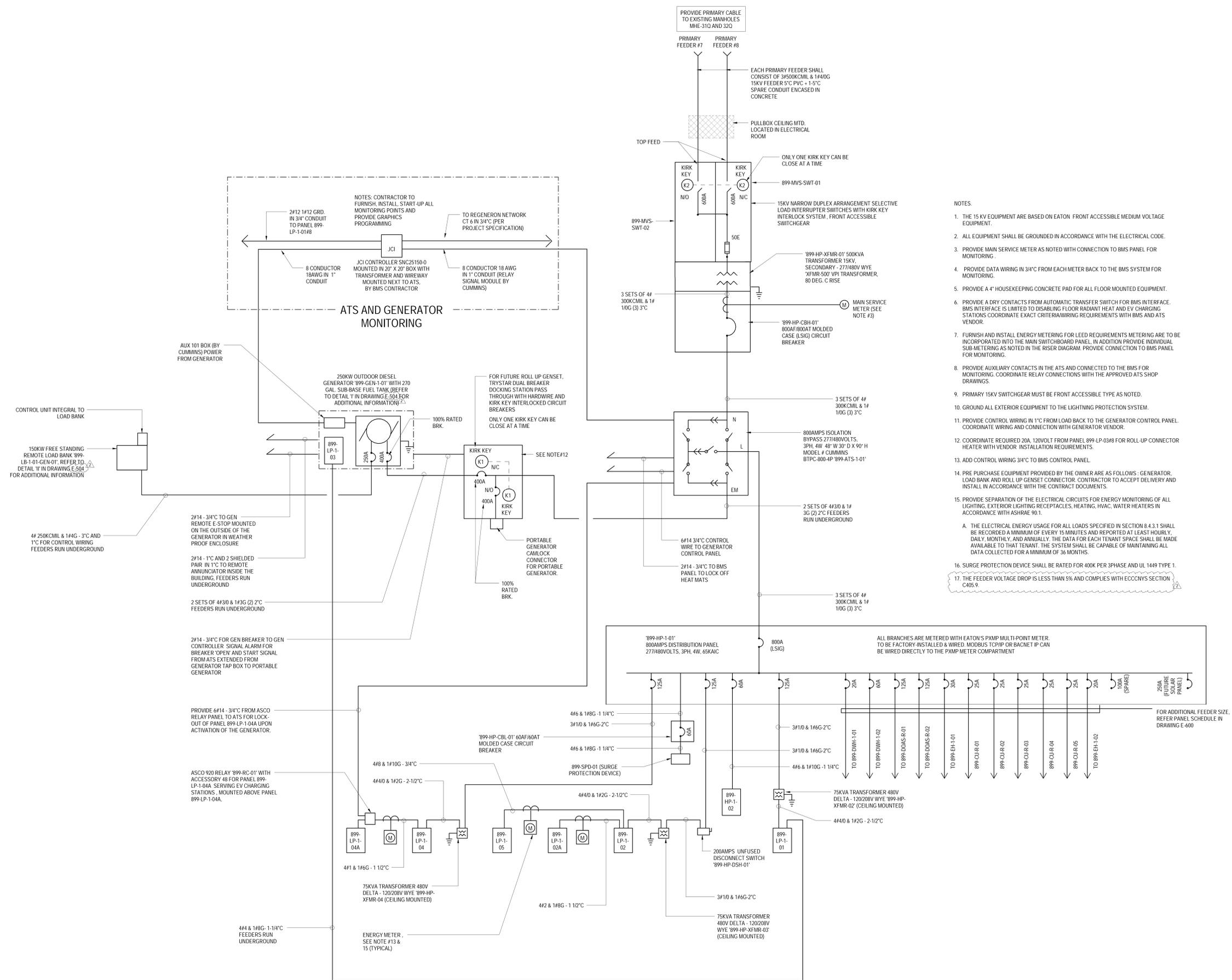
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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical
Drawn By: AI
ELECTRICAL RISER DIAGRAM

Scale: 1/8" = 1'-0" Floor:

E-700



- NOTES:
1. THE 15 KV EQUIPMENT ARE BASED ON EATON FRONT ACCESSIBLE MEDIUM VOLTAGE EQUIPMENT.
 2. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE ELECTRICAL CODE.
 3. PROVIDE MAIN SERVICE METER AS NOTED WITH CONNECTION TO BMS PANEL FOR MONITORING.
 4. PROVIDE DATA WIRING IN 3/4" FROM EACH METER BACK TO THE BMS SYSTEM FOR MONITORING.
 5. PROVIDE A 4" HOUSEKEEPING CONCRETE PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
 6. PROVIDE A DRY CONTACTS FROM AUTOMATIC TRANSFER SWITCH FOR BMS INTERFACE. BMS INTERFACE IS LIMITED TO DISABLING FLOOR RADIANT HEAT AND EV CHARGING STATIONS COORDINATE EXACT CRITERIA WIRING REQUIREMENTS WITH BMS AND ATS VENDOR.
 7. FURNISH AND INSTALL ENERGY METERING FOR LEED REQUIREMENTS METERING ARE TO BE INCORPORATED INTO THE MAIN SWITCHBOARD PANEL. IN ADDITION PROVIDE INDIVIDUAL SUB-METERING AS NOTED IN THE RISER DIAGRAM. PROVIDE CONNECTION TO BMS PANEL FOR MONITORING.
 8. PROVIDE AUXILIARY CONTACTS IN THE ATS AND CONNECTED TO THE BMS FOR MONITORING. COORDINATE RELAY CONNECTIONS WITH THE APPROVED ATS SHOP DRAWINGS.
 9. PRIMARY 15KV SWITCHGEAR MUST BE FRONT ACCESSIBLE TYPE AS NOTED.
 10. GROUND ALL EXTERIOR EQUIPMENT TO THE LIGHTNING PROTECTION SYSTEM.
 11. PROVIDE CONTROL WIRING IN 1" FROM LOAD BACK TO THE GENERATOR CONTROL PANEL. COORDINATE WIRING AND CONNECTION WITH GENERATOR VENDOR.
 12. COORDINATE REQUIRED 20A, 120VOLT FROM PANEL 899-LP-03#8 FOR ROLL-UP CONNECTOR HEATER WITH VENDOR INSTALLATION REQUIREMENTS.
 13. ADD CONTROL WIRING 3/4" TO BMS CONTROL PANEL.
 14. PRE PURCHASE EQUIPMENT PROVIDED BY THE OWNER ARE AS FOLLOWS - GENERATOR, LOAD BANK AND ROLL UP GENSET CONNECTOR. CONTRACTOR TO ACCEPT DELIVERY AND INSTALL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 15. PROVIDE SEPARATION OF THE ELECTRICAL CIRCUITS FOR ENERGY MONITORING OF ALL LIGHTING, EXTERIOR LIGHTING RECEPTACLES, HEATING, HVAC, WATER HEATERS IN ACCORDANCE WITH ASHRAE 90.1.
 - A. THE ELECTRICAL ENERGY USAGE FOR ALL LOADS SPECIFIED IN SECTION 8.4.3.1 SHALL BE RECORDED A MINIMUM OF EVERY 15 MINUTES AND REPORTED AT LEAST HOURLY, DAILY, MONTHLY, AND ANNUALLY. THE DATA FOR EACH TENANT SPACE SHALL BE MADE AVAILABLE TO THAT TENANT. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING ALL DATA COLLECTED FOR A MINIMUM OF 36 MONTHS.
 16. SURGE PROTECTION DEVICE SHALL BE RATED FOR 400K PER PHASE AND UL 1449 TYPE 1.
 17. THE FEEDER VOLTAGE DROP IS LESS THAN 5% AND COMPLIES WITH ECCVNS SECTION C405.9

ONE LINE DIAGRAM

NOT TO SCALE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.