

DEPARTMENT OF GENERAL SERVICES, PURCHASING DIVISION

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Paul Brennan, FNIGP, CPPO
Director of Purchasing

ADDENDUM # 12

**CAPITAL PROJECT 3414:
CONSTRUCTION OF NEW HIGHWAY FACILITY**

The information in this addendum supersedes any contradictory information set forth in the contract documents. Acknowledge receipt of this addendum in the space provided on the signature page of the bid proposal. Failure to do so, may subject the bidder to disqualification. This addendum forms a part of the contract documents.

This is a reissue Dwg 0.06.002, 0.06.101, 0.06.101A, 06.101B., 0.06.111, 0.06.601, 0.06.602, 1.06.122, 1.06.131, 1.06.132. The addendum number shown in the description block (lower right-hand corner) was incorrectly added and should be corrected to read "Revision 1" however the date of revision is correct. The drawing is being uploaded as separate attachment.

SIGNED:

Paul J. Brennan

**PAUL J. BRENNAN, FNIGP, CPPO
DIRECTOR OF PURCHASING**

ADDENDUM

12/11/19

FILE NAME: I:\Projects\MEG\NMEG0050.00.Dwg(10-06-001-2-3.dwg) PLOT TIME: Wed, 27 Nov 2019 - 3:31pm LAST SAVE: Wed, 27 Nov 2019 - 3:28pm BY: dazg

GENERAL NOTES

- 1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
- 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- 6.) ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- 7.) CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- 8.) FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS.
- 9.) FOR EACH WALL MOUNTED CARD READER, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS.
- 10.) FOR EACH BUILDING MOUNTED CCTV CAMERA, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS.
- 11.) COMMUNICATION WIRING BY OTHERS. COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL.
- 12.) WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- 13.) INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- 14.) CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
- 15.) UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- 16.) DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- 17.) INCLUDE IN BASE BID 1P-20A CIRCUITS AS INDICATED BELOW (150' LENGTH EACH) FOR HVAC/BMS SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 15 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:
- BUILDING 1 - PP11-40,42, PP13-49,51

BUILDING 2 - PP22-22,24

BUILDING 3 - PP32-22,24

BUILDING 4 - PP41-26 & PP43-20
- 18.) FOR INFORMATION PURPOSES THE FURNITURE SYSTEM HAS AN EIGHT WIRE ELECTRICAL SYSTEM CONSISTING OF 4-1P-20A CIRCUITS (4 HOTS, 2 NEUTRALS, 1 ISOLATED GROUND & 1 EQUIPMENT GROUND). CONFIRM WITH FURNITURE MANUFACTURER/INSTALLER. THE FURNITURE SUPPLIER WILL SUPPLY POWER CONNECTION WHIPS. THE CONTRACTOR SHALL INSTALL AND CUT EACH WHIP AS REQUIRED FOR EACH LOCATION. CONTRACTOR SHALL CONFIRM EACH FURNITURE WHIP LOCATION AND LENGTH WITH OWNER'S REPRESENTATIVE AND ARCHITECT.
- 19.) LIGHTING CONTROL OVERRIDE SWITCHES (OR) THAT ARE NOT VISIBLY LOCATED WITHIN THE AREAS THEY SERVE SHALL BE CLEARLY LABELED AT THEIR RESPECTIVE LOCATIONS AND INDICATED THE AREAS, CORRIDORS, ETC THAT THEY CONTROL.
- 20.) ALL CONDUITS AND BACK BOXES FOR WALL MOUNTED DEVICES SHALL BE RECESSED WITHIN WALLS, INCLUDING CMU WALLS, U.O.N.

DEFINITION OF TERMS

- 1.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "COUNTY OF ROCKLAND" IS INTENDED.
- 2.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "STV ARCHITECTS" IS INTENDED.
- 3.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "SITE/STRUCTURAL" IS USED, IT MUST BE UNDERSTOOD THAT "McCLAREN ENGINEERING GROUP" IS INTENDED.
- 4.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- 5.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT ORANGE & ROCKLAND UTILITIES" IS INTENDED.
- 6.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
- 7.) "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- 8.) "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- 9.) "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- 10.) "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- 11.) THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
- A.) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- B.) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- C.) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
- D.) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

TRENCHING NOTES

- 1.) CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
- 2.) ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
- 3.) ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 4.) ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 5.) THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE).

LIGHTNING PROTECTION SYSTEM NOTES (FOR BUILDINGS 1,2,3&4)

- 1.) THE FOLLOWING IS A PERFORMANCE SPECIFICATION OF THE LIGHTNING PROTECTION SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE TO HIRE AN ORGANIZATION THAT IS UL APPROVED (MASTER LABEL) TO DESIGN SUCH SYSTEMS. DESIGN SHALL BE FORWARDED TO THE ENGINEER AS A SHOP DRAWING FOR APPROVAL PRIOR TO CONSTRUCTION.
- 2.) A SYSTEM OF LIGHTNING PROTECTION SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH THE PROVISIONS OF THE LATEST "CODE OF PROTECTION AGAINST LIGHTNING" FOR BUILDINGS AS ADOPTED BY THE NATIONAL FIRE PROTECTION ASSOCIATION AND THE UNDERWRITERS' LABORATORIES, INC. FOR A MASTER LABEL SYSTEM.
- IF ANY DEPARTURES FROM THE CONTRACTOR DOCUMENTS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED AS SOON AS PRACTICABLE TO THE ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER AND THE ARCHITECT. ALSO, THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED BY A LIGHTNING PROTECTION CONTRACTOR WHO SPECIALIZES IN THIS FIELD.
- 3.) MATERIALS
THE LIGHTNING PROTECTION EQUIPMENT SPECIFICATION SHALL BE BASED ON EQUIPMENT MANUFACTURED BY HEARY BROS. LIGHTNING PROTECTION CO., INC. OF MOORE ROAD, SPRINGVILLE, NEW YORK, 14141, OR EQUAL TO. ALL MATERIALS SHALL COMPLY IN WEIGHT, SIZE, AND COMPOSITION WITH THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES, INC. AND THE NATIONAL FIRE PROTECTION ASSOCIATION CODE RELATING TO THIS TYPE OF STRUCTURE.
- 4.) AIR TERMINALS
AIR TERMINALS SHALL BE 1/2" X 10" SOLID ALUMINUM AND SHALL EXTEND AT LEAST 18" ABOVE THE OBJECT TO BE PROTECTED. ALL AIR TERMINAL BASES SHALL BE CAST ALUMINUM WITH STAINLESS STEEL BOLT-PRESSURE CABLE CONNECTORS. THE AIR TERMINALS SHOULD BE SPACED SO AS NOT TO EXCEED 20 FEET APART AROUND THE OUTSIDE PERMITER OF THE ROOF OR THE RIDGE AND NOT OVER 50 FEET APART THROUGH THE CENTER OF FLAT ROOF AREAS. THE AIR TERMINALS IN THE CENTER ROOF AREA SHALL BE 1/2" X 24" SOLID ALUMINUM WITH A PROPER BRACE. ALL AIR TERMINAL BASES FOR FLAT ROOF AREAS SHALL BE OF THE ADHESIVE TYPE.
- 5.) CONDUCTORS
CONDUCTORS SHALL CONSIST OF U.L. LISTED 28 STRANDS OF 14 GAUGE ALUMINUM WIRE WEIGHING 114 LBS. PER 1000 FEET AND INSTALLED IN ACCORDANCE WITH THE U.L. CODE. A PERIMETER CABLE SHALL BE INSTALLED AROUND THE ENTIRE MAIN ROOF AND ALL HEAT REJECTION EQUIPMENT. EACH PERIMTER CABLE SHALL BE CONNECTED TO DOWN LEADS, PROVIDING A TWO-WAY PATH FROM GROUND TO EACH AIR TERMINAL. ALL CENTER ROOF AIR TERMINALS SHALL BE INTERCONNECTED WITH CONDUCTORS TO THE OUTSIDE PERIMETER CABLE. CONDUCTORS ON THE FLAT ROOF AREAS MAY BE RUN EXPOSED. GROUND CONNECTION SHALL BE MADE AROUND THE PERIMETER OF EACH ROOF AND TO THE MAIN DOWN CONDUCTOR AT THE MAXIMUM OF 100'-0" ON CENTERS.
- 6.) CONCEALED CONDUCTORS
ALL CONCEALED CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40, 1" PVC CONDUIT. CONDUIT TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL DOWN CONDUCTORS SHALL RUN INSIDE WALLS OF THE BUILDING THROUGH THE 1" PVC CONDUIT.
- 7.) FASTENERS
CONDUCTOR FASTENERS SHALL BE AN APPROVED TYPE NON-CORROSIVE METAL, HAVE AMPLE STRENGTH TO SUPPORT CONDUCTORS, AND SHALL BE SPACED NOT TO EXCEED 3'-0" CENTERS, MASONRY TYPE CABLE FASTENERS SPACED EVERY 3'-0" ON MASONRY.
- 8.) ROOF PENETRATION
WHEREVER THE CONDUITS PENETRATES THE ROOF, COPPER PITCH PANS SHALL BE FURNISHED BY THE LIGHTNING PROTECTION CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. WOOD NAILING BLOCKS SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR. ALL PATCHING AND MASONRY WORK SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR.
- 9.) DOWN CONDUCTORS
BUILDINGS THAT ARE OF REINFORCED CONCRETE OR WALL BEARING STRUCTURES, THE CONCEALED DOWN CONDUCTORS SHALL BE INSTALLED IN SCHEDULE 40, 1" P.V.C. CONDUIT. EACH PERIMETER ROOF CABLE SHALL BE CONNECTED AT LEAST TWO (2) DOWN LEADS. THE AVERAGE DISTANCE BETWEEN DOWN LEADS SHALL NOT EXCEED 100 FEET IRREGULARLY SHAPED STRUCTURES MAY REQUIRE EXTRA DOWN CONDUCTORS TO PROVIDE A TWO-WAY PATH TO GROUND FROM EACH AIR TERMINAL.
- 10.) CABLE CONNECTORS
ALL CABLE CONNECTORS SHALL BE CAST ALUMINUM WITH SCREW-PRESSURE TYPE STAINLESS STEEL BOLTS AND NUTS.
- 11.) INTERCONNECTION OF METALS
ALL METAL BODIES WITHIN 6 FEET OF THE CONDUCTOR SHALL BE BONDED TO THE SYSTEM WITH APPROVED FITTINGS AND CONDUCTOR. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH APPROVED BIMETALLIC CONNECTIONS.

- 12A.) BONDING OF ALL METALLIC OBJECTS AND SYSTEMS AT ROOF LEVELS AND ELSEWHERE ON THE STRUCTURE SHALL BE COMPLETE. PRIMARY BONDS FOR METAL BODIES OF CONDUCTANCE SHALL BE BONDED WITH APPROPRIATE FITTINGS AND FULL-SIZE CONDUCTOR; AND SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING: ROOF EXHAUST FANS, HVAC UNITS WITH RELATED PIPING DUCTWORK, EXHAUST VENTS AND ANY OTHER ROOF PIPING SYSTEMS, COOLING TOWERS, AND RAIL SYSTEMS, WINDOW WASHING TRACKS, ANTENNA MAST FOR T.V., RADIO OR MICROWAVE FLAG POLES, ROOF HANDRAILS AND/OR DECORATIVE SCREENS, ROOF LADDERS, SKYLIGHTS, METAL PLUMBING STACKS, ETC. EXTERIOR ARCHITECTURAL METAL FASCIA AND/OR CURTAIN WALLS OR MULLIONS WHICH EXTEND THE FULL HEIGHT OF THE STRUCTURE SHALL ALSO BE BONDED, IF NOT INHERENTLY BONDED THRU THE BUILDING FRAME.
- 12B.) METAL BODIES OF INDUCTANCE LOCATED WITHING 6 FEET OF A CONDUCTOR OR OBJECT WITH SECONDARY BONDS SHALL BE BONDED WITH SECONDARY CABLES AND FITTINGS. TYPICAL OF THESE ARE: ROOF FLASHINGS, PARAPET COPING CAPS, GRAVEL GUARDS, ISOLATED METAL BUILDING PANELS OR SIDING, ROOF DRAINS, DOWN SPOUTS, ROOF ISULATION VENTS, AND ANY OTHER SIZEABLE MISCELLANEOUS METALS, ETC.
- 13.) GROUNDING
GROUNDING TERMINATIONS SHALL BE MADE TO THE #4/0 AWG COPPER GROUND RING LOCATED AT THE BASE OF THE STRUCTURE. GROUND CONNECTIONS SHALL BE MADE AROUND THE PERIMETER OF THE STRUCTURE, AND IN NO CASE SHALL AVERAGE OVER 100'-0" APART. GROUND TERMINALS SHALL BE 3/4 " IN DIAMETER AND SHALL BE DRIVEN TO A MINIMUM DEPTH OF 10 FEET AND MORE, IF NECESSARY, TO REACH PERMANENT MOISTURE. ONE GROUND SHALL HAVE CONNECTION TO THE WATER SYSTEM WHERE THE WATER SUPPLY ENTERS THE BUILDING - IN ADDITION TO ARTIFICIAL GROUND. IN CASE OF ROCK LEDGE OR OTHER CONDITIONS MAKING IT IMPOSSIBLE TO COMPLY WITH THE ABOVE, TRENCHING OR A COPPER GROUND PLATE WILL PERMITTED; PROVIDING IT WILL MEET THE UNDERWRITERS' LABORATORIES, INC. REQUIREMENTS.
- 14.) COMMON GROUNDING
COMMON GROUNDS BETWEEN THE LIGHTNING PROTECTION SYSTEM AND THE ELECTRIC SERVICE ENTRANCE WIRES BE MADE BY THE ELECTRICAL CONTRACTOR, AS SHOWN IN THE DRAWINGS AND PER THE SPECIFICATIONS.
- 15.) UNDERWRITER'S LABORATORIES, INC MASTER LABEL SHALL BE FURNISHED AS EVIDENCE THAT THE INSTALLTION HAS MET WITH U.L. 96A CODE REQUIREMENTS. SHOP DRAWINGS IN DETAIL AND CATALOG CUTS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION OF THE SYSTEM.
- 16.) THE LIGHTNING PROTECTION CONTRACTOR SHALL FURNISH OWNER AND ENGINEER WITH SYSTEM SHOP DRAWINGS FOR REVIEW. INCLUDE LAYOUT AND ALL COMPONENTS.
- 17.) THE ELECTRICAL CONTRACTOR SHALL INSTALL THE LIGHTNING PROTECTION SYSTEM PER THE LIGHTNING PROTECTION CONTRACTOR'S SHOP DRAWINGS, (APPROVED SET).

WARNING - IT IS A VIOLATION OF NEW YORK STATE EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

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PROJECT

COUNTY OF ROCKLAND
CAPITAL PROJECT NO. 1307
HIGHWAY DEPARTMENT /
EMERGENCY OPERATIONS FACILITY
COUNTY OF ROCKLAND, NEW YORK



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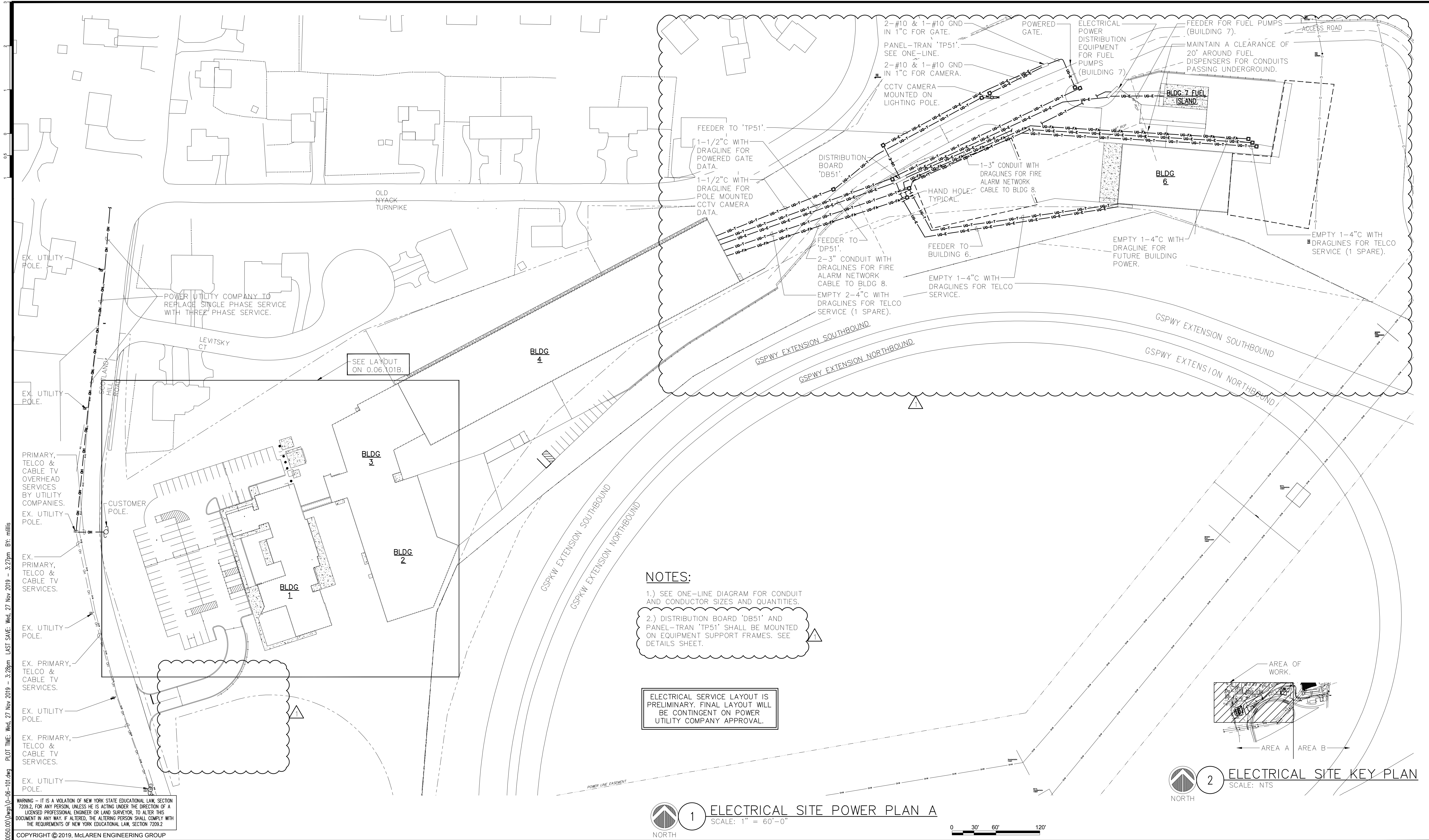
SHEET NAME

ELECTRICAL GENERAL
NOTES

1	11/27/19	ADDENDUM 07	VB
No.	DATE	REVISION	BY

PROJECT NO.	130439
SCALE	As indicated
DATE	OCTOBER 30, 2019
DRAWN BY	CT
CHECKED BY	ML
APPROVED BY	DS

ISSUED FOR	BID SET
DRAWING NO.	0.06.002
OF	SHTS



- NOTES:**
- 1.) SEE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES AND QUANTITIES.
 - 2.) DISTRIBUTION BOARD 'DB51' AND PANEL-TRAN 'TP51' SHALL BE MOUNTED ON EQUIPMENT SUPPORT FRAMES. SEE DETAILS SHEET.

ELECTRICAL SERVICE LAYOUT IS PRELIMINARY. FINAL LAYOUT WILL BE CONTINGENT ON POWER UTILITY COMPANY APPROVAL.

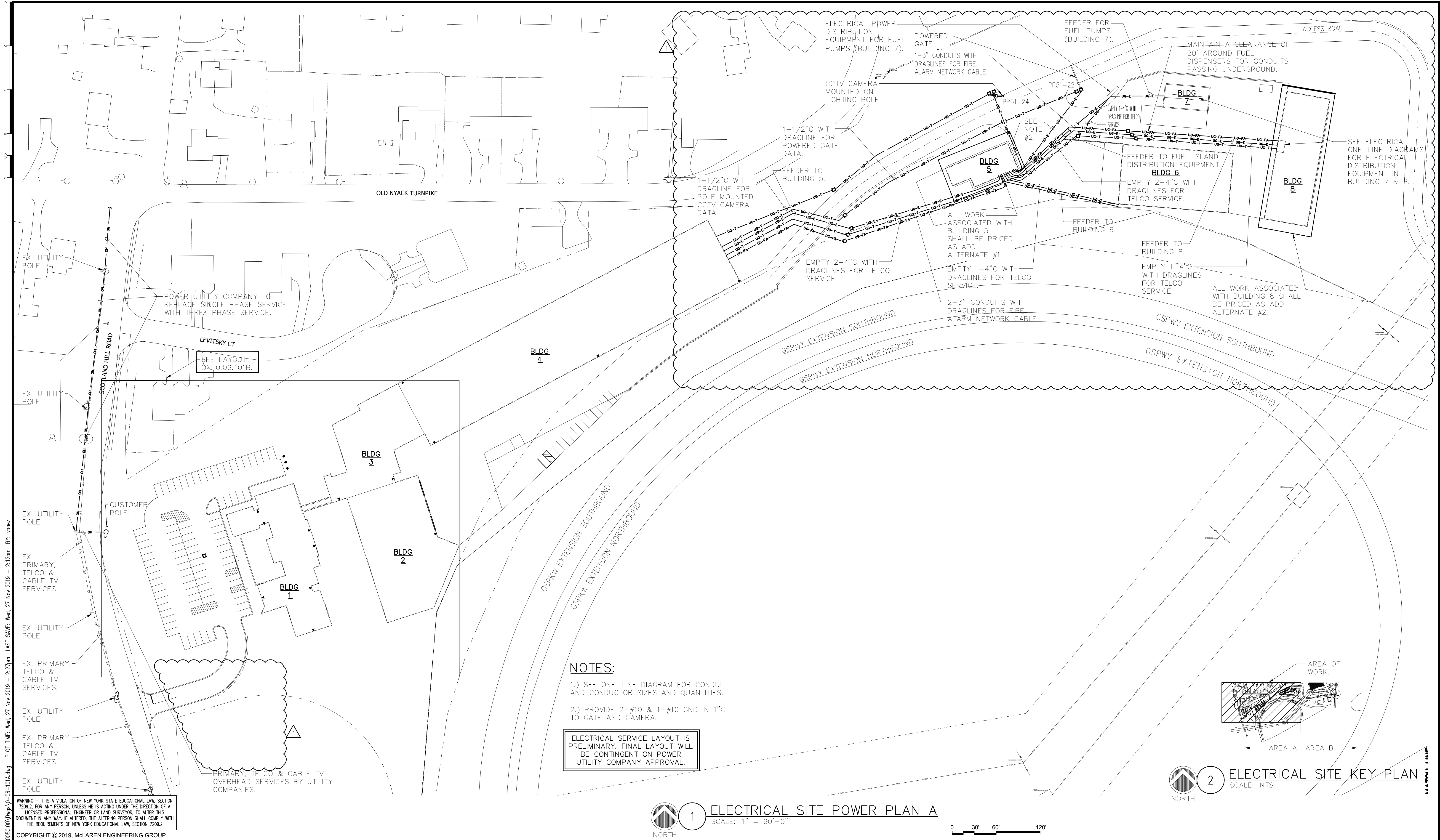
1 ELECTRICAL SITE POWER PLAN A
SCALE: 1" = 60'-0"

2 ELECTRICAL SITE KEY PLAN
SCALE: NTS

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<p>CONSULTANTS ARCHITECT</p> <p>STV 100 Years</p> <p>STV Architects, P.C. 225 Park Avenue South New York, NY 10003 (212) 777-4400 FAX: (212) 473-2780 www.stvinc.com</p>	<p>MEP ENGINEER</p> <p>OLA Consulting Engineers</p> <p>50 Broadway, Hawthorne, NY 10532 914.747.2800</p> <p>8 West 38th Street, Suite 601 New York, NY 10018 646.848.4110</p> <p>ola.com NMEG0050.00</p>	<p>FACILITIES CONSULTANT</p> <p>Gannett Fleming</p>	<p>LANDSCAPE ARCHITECT</p> <p>IQ</p> <p>Imbiano-Quigley Landscape Architects</p> <p>31 Monmouth Ave., 7th Floor White Plains, New York 10601 admin@iqlandscape.com (914) 232-4090</p>	<p>PROJECT</p> <p>COUNTY OF ROCKLAND CAPITAL PROJECT NO. 1307 HIGHWAY DEPARTMENT / EMERGENCY OPERATIONS FACILITY</p> <p>COUNTY OF ROCKLAND, NEW YORK</p>	<p>McLaren ENGINEERING GROUP</p> <p>applied ingenuity</p> <p>M. G. McLaren Engineering and Land Surveying P.C.</p> <p>530 Chestnut Ridge Road, Woodcliff Lake, NJ 07677 T: 201.775.6000 F: 201.746.8522 www.mgmclaren.com</p>	<p>STATE OF NEW YORK</p> <p>STEVEN ABBATISTA</p> <p>REGISTERED PROFESSIONAL ENGINEER</p> <p>077237</p>	<p>SHEET NAME</p> <p>ELECTRICAL SITE PLAN</p>	<table><tr><td>1</td><td>11/27/19</td><td>ADDENDUM 07</td><td>VB</td></tr><tr><td>No.</td><td>DATE</td><td>REVISION</td><td>BY</td></tr></table>	1	11/27/19	ADDENDUM 07	VB	No.	DATE	REVISION	BY	<p>PROJECT NO. 130439</p> <p>SCALE As indicated</p> <p>DATE OCTOBER 30, 2019</p> <p>DRAWN BY CT</p> <p>CHECKED BY ML</p> <p>APPROVED BY DS</p>	<p>ISSUED FOR BID SET</p> <p>DRAWING NO. 0.06.101</p> <p>OF SHTS</p>
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PROJECT

**COUNTY OF ROCKLAND
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HIGHWAY DEPARTMENT /
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STATE OF NEW YORK
SEVEN ABBATISTIA
077237
REGISTERED PROFESSIONAL ENGINEER

SHEET NAME

**ELECTRICAL SITE ADD
ALTERNATE PLAN**

No.	DATE	ADDENDUM 07 REVISION	VB BY
1	11/27/19		

PROJECT NO.	130439
SCALE	As indicated
DATE	OCTOBER 30, 2019
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ISSUED FOR

BID SET

DRAWING NO.

0.06.101A

OF SHTS

FILE NAME: I:\Projects\MEG\NMEG0050.00.dwg PLOT TIME: Wed, 27 Nov 2019 - 2:27pm LAST SAVE: Wed, 27 Nov 2019 - 2:18pm BY: dorez

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PROJECT

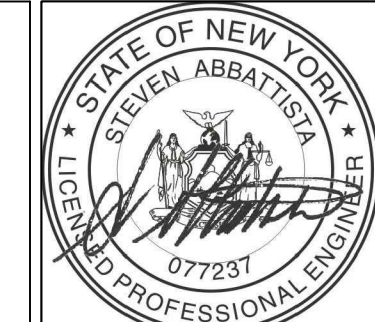
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CAPITAL PROJECT NO. 1307
HIGHWAY DEPARTMENT /
EMERGENCY OPERATIONS FACILITY
COUNTY OF ROCKLAND, NEW YORK

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SHEET NAME

ELECTRICAL SITE PART PLAN

No.	DATE	ADDENDUM 07 REVISION	BY
1	11/27/19		

PROJECT NO. 130439

SCALE As indicated

DATE OCTOBER 30, 2019

DRAWN BY CT

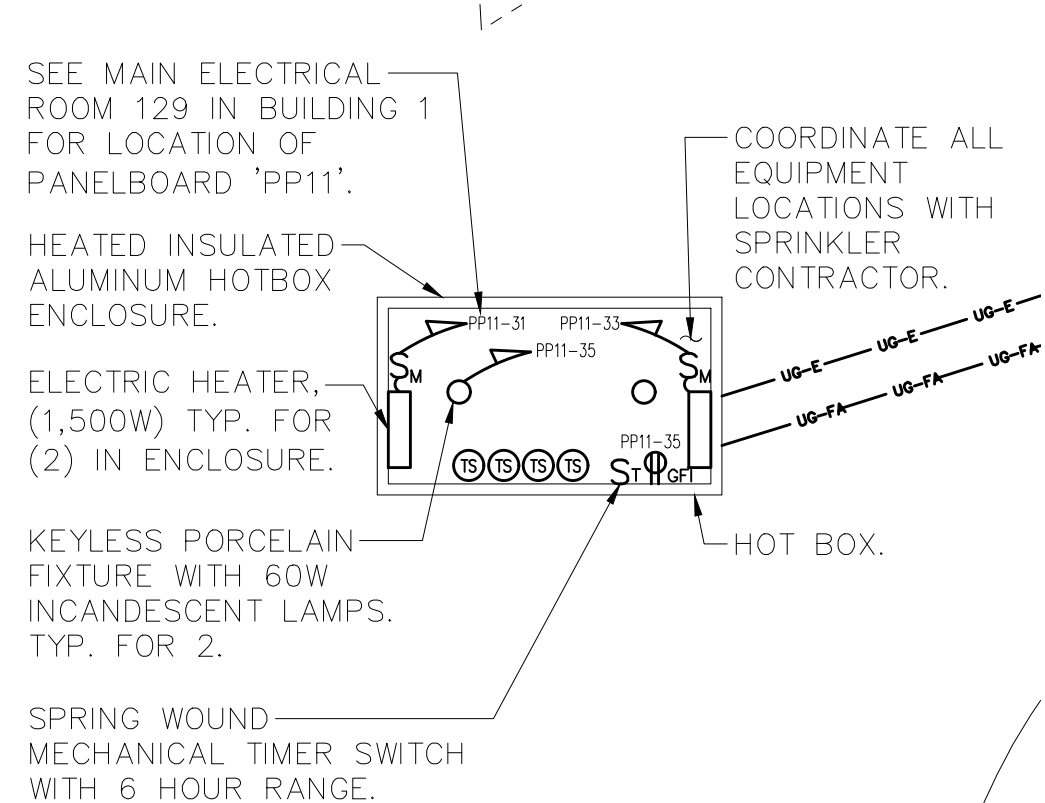
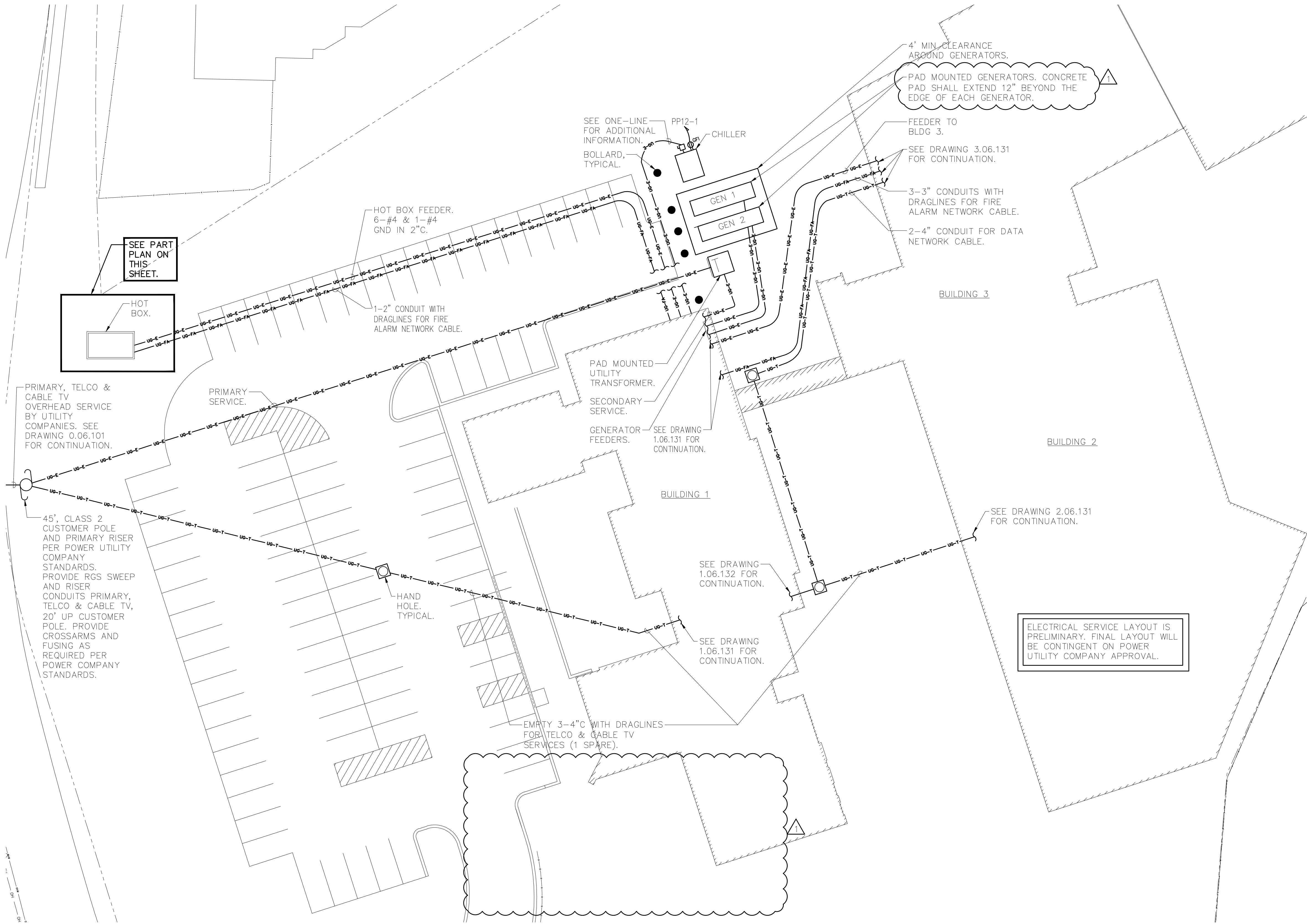
CHECKED BY ML

APPROVED BY DS

ISSUED FOR **BID SET**

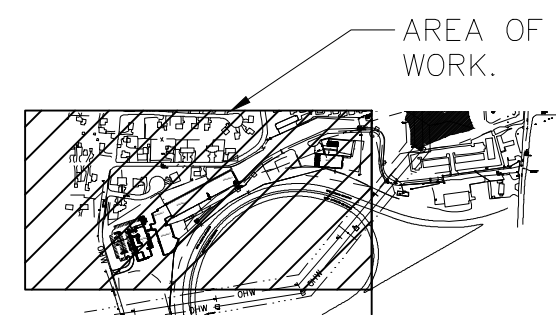
DRAWING NO. **0.06.101B**

OF SHTS



3 ELECTRICAL HOT BOX PLAN
SCALE: 1" = 20'-0"

- NOTES:
- 1.) SEE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES AND QUANTITIES.
 - 2.) PROVIDE LIGHTNING PROTECTION FOR CHILLER, TRANSFORMER AND GENERATORS. SEE NOTES ON DRAWING 0.06.002 AND SPECIFICATIONS.



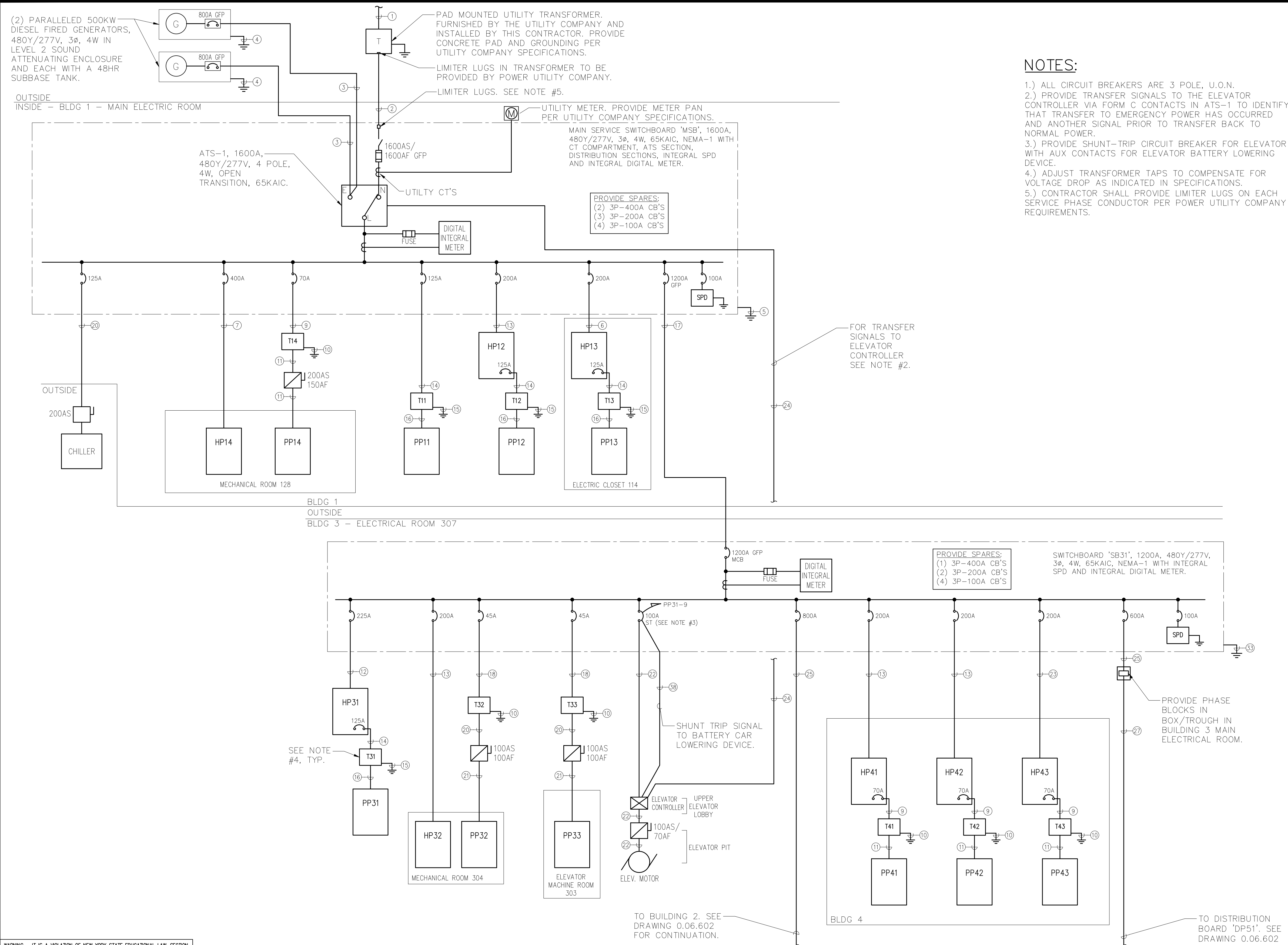
AREA A AREA B

2 ELECTRICAL SITE KEY PLAN
SCALE: NTS

1 ELECTRICAL SITE PART PLAN
SCALE: 1" = 20'-0"



FILE NAME: I:\Projects\MEG\NMEG0050.00\Drawings\06-601-2-3-4.dwg PLOT TIME: Wed, 27 Nov 2019 - 2:53pm LAST SAVE: Wed, 27 Nov 2019 - 2:53pm BY: wbez



NOTES:

- 1.) ALL CIRCUIT BREAKERS ARE 3 POLE, U.O.N.
- 2.) PROVIDE TRANSFER SIGNALS TO THE ELEVATOR CONTROLLER VIA FORM C CONTACTS IN ATS-1 TO IDENTIFY THAT TRANSFER TO EMERGENCY POWER HAS OCCURRED AND ANOTHER SIGNAL PRIOR TO TRANSFER BACK TO NORMAL POWER.
- 3.) PROVIDE SHUNT-TRIP CIRCUIT BREAKER FOR ELEVATOR WITH AUX CONTACTS FOR ELEVATOR BATTERY LOWERING DEVICE.
- 4.) ADJUST TRANSFORMER TAPS TO COMPENSATE FOR VOLTAGE DROP AS INDICATED IN SPECIFICATIONS.
- 5.) CONTRACTOR SHALL PROVIDE LIMITER LUGS ON EACH SERVICE PHASE CONDUCTOR PER POWER UTILITY COMPANY REQUIREMENTS.

WIRING/CONDUIT LEGEND:

- 1 UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN 2-4" HDPE C (1 SPARE).
- 2 5 SETS OF 4-#500MCM IN 6-4" HDPE C (1 SPARE).
- 3 2 SETS OF 4-#500MCM & 1-#1/0 AWG GND IN 2-4"C.
- 4 GENERATOR GROUND. #2/0 GROUNDING ELECTRODE CONDUCTOR, #2/0 NEUTRAL TO GROUND BOND.
- 5 SERVICE GROUND. #3/0 GROUNDING ELECTRODE CONDUCTOR. #350MCM NEUTRAL TO GROUND BOND.
- 6 4-#3/0 & 1-#6 GND IN 3"C.
- 7 4-#500MCM & 1-#3 GND IN 3-1/2"C.
- 8 4-#2 & 1-#8 GND IN 1-1/4"C.
- 9 3-#4 & 1-#8 GND IN 1"C.
- 10 #6 GND.
- 11 4-#1/0 & 1-#6 GND IN 2"C.
- 12 4-#4/0 & 1-#4 GND IN 2-1/2"C.
- 13 4-#3/0 & 1-#6 GND IN 2"C.
- 14 3-#1 & 1-#6 GND IN 1-1/2"C.
- 15 #2 GND.
- 16 4-#250MCM & 1-#2 GND IN 2-1/2"C.
- 17 4 SETS OF 4-#500MCM & 1-#3/0 GND IN 5-4"C (1 SPARE).
- 18 3-#6 & 1-#10 GND IN 3/4"C.
- 19 3-#2 & 1-#8 GND IN 3"C.
- 20 4-#1 & 1-#6 GND IN 1-1/2"C.
- 21 4-#2 & 1-8 GND IN 1-1/4"C.
- 22 4-#8 & 1-# GND IN 1"C.
- 23 4-#350MCM & 1-#3 GND IN 3"C.
- 24 6-#12 & 1-#12 GND IN 1"C.
- 25 2 SETS OF 4-#500MCM & 1-#1/0 GND IN (2) 4"C.
- 26 5-#2 IN 1-1/4"C.
- 27 4 SETS OF 4-#500MCM & 1-#1/0 GND IN (5) 4"C (1 SPARE).
- 28 3-#500MCM & 1-#3 GND IN 3"C.
- 29 #3/0 GND.
- 30 2 SETS OF 4-#600MCM & 1-#3/0 GND IN (2) 4"C.
- 31 3-#1/0 & 1-#8 GND IN 3"C.
- 32 3-#4/0 & 1-#8 GND IN 4"C.
- 33 #3/0 GROUNDING ELECTRODE CONDUCTOR (NO NEUTRAL TO GROUND BOND).
- 34 #3/0 GROUNDING ELECTRODE CONDUCTOR (NO NEUTRAL TO GROUND BOND).
- 35 #8 GROUNDING ELECTRODE CONDUCTOR (NO NEUTRAL TO GROUND BOND).
- 36 #6 GROUNDING ELECTRODE CONDUCTOR (NO NEUTRAL TO GROUND BOND).
- 37 #2 GROUNDING ELECTRODE CONDUCTOR (NO NEUTRAL TO GROUND BOND).
- 38 4-#12 & 1-#12 GND IN 3/4"C.
- 39 #8 GND.
- 40 3-#10 & 1-#10 GND IN 1"C.

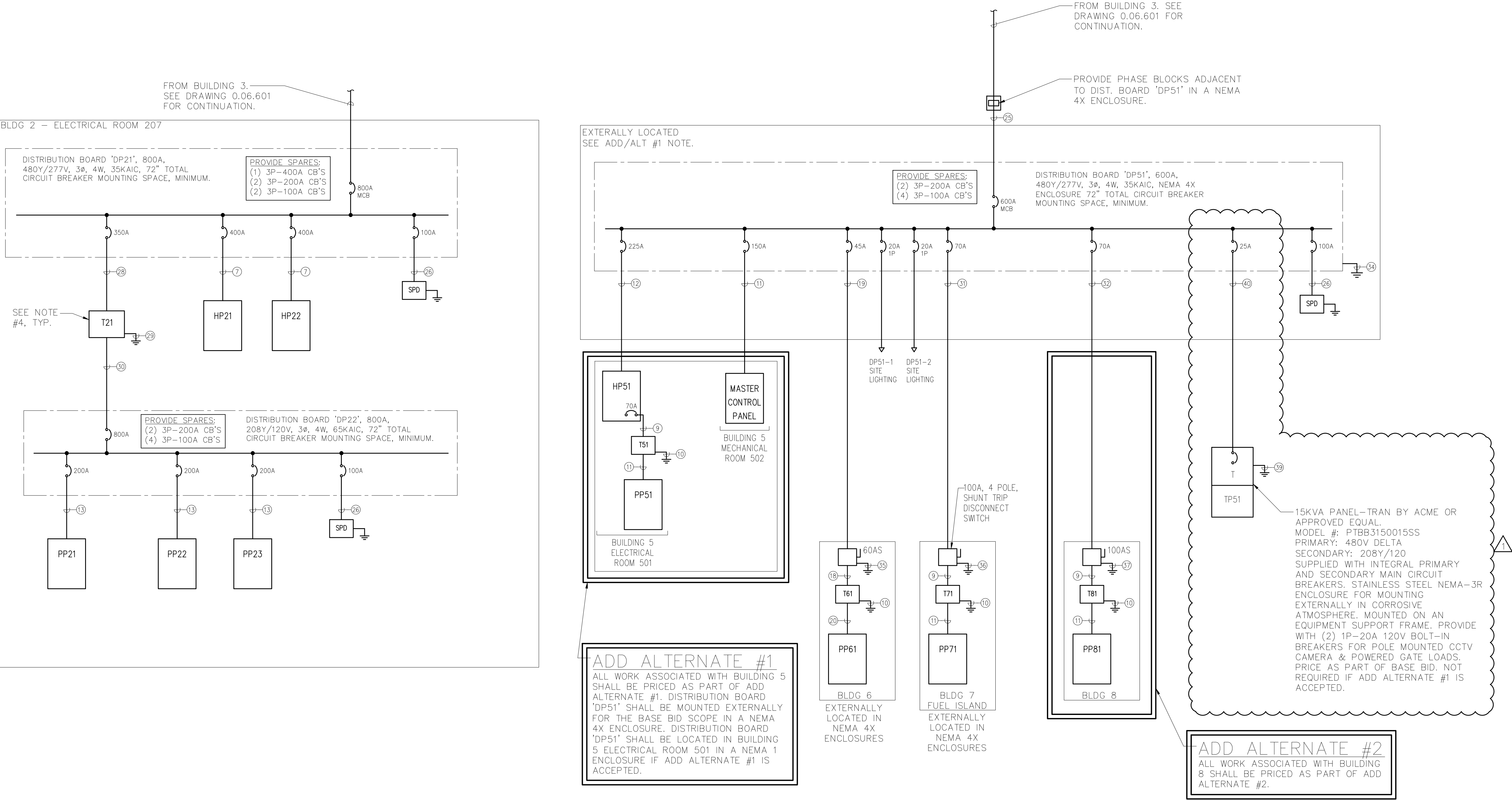
1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

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FILE NAME: I:\Projects\MEG\NMEG0050.00.dwg 0.06-601-2-3-4.dwg PLOT TIME: Wed, 27 Nov 2019 - 3:31pm LAST SAVE: Wed, 27 Nov 2019 - 3:31pm BY: millis



NOTES:
1.) ALL CIRCUIT BREAKERS ARE 3 POLE, U.O.N.
2.) ADJUST TRANSFORMER TAPS TO COMPENSATE FOR VOLTAGE DROP AS INDICATED IN SPECIFICATIONS.

WIRING/CONDUIT LEGEND:
SEE DRAWING 0.06.601 FOR WIRING/CONDUIT LEGEND.

1 ELECTRICAL ONE-LINE DIAGRAM CONTINUED
SCALE: NONE

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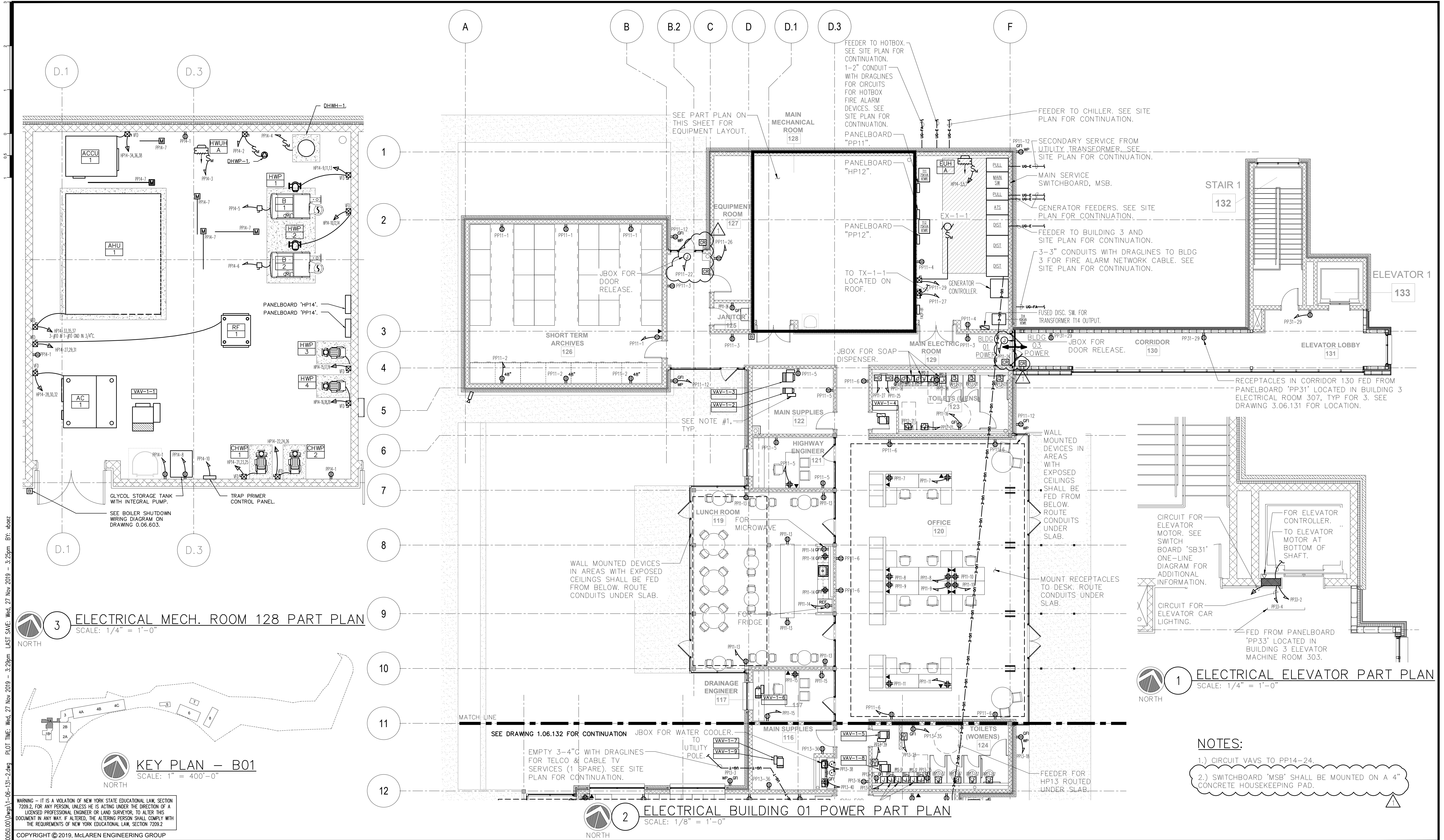
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STEVEN ABBATISTA
LICENSED PROFESSIONAL ENGINEER
077237

SHEET NAME

ELECTRICAL ONE-LINE
DIAGRAM CONTINUED

1	11/27/19	ADDENDUM 07	VB
No.	DATE	REVISION	BY

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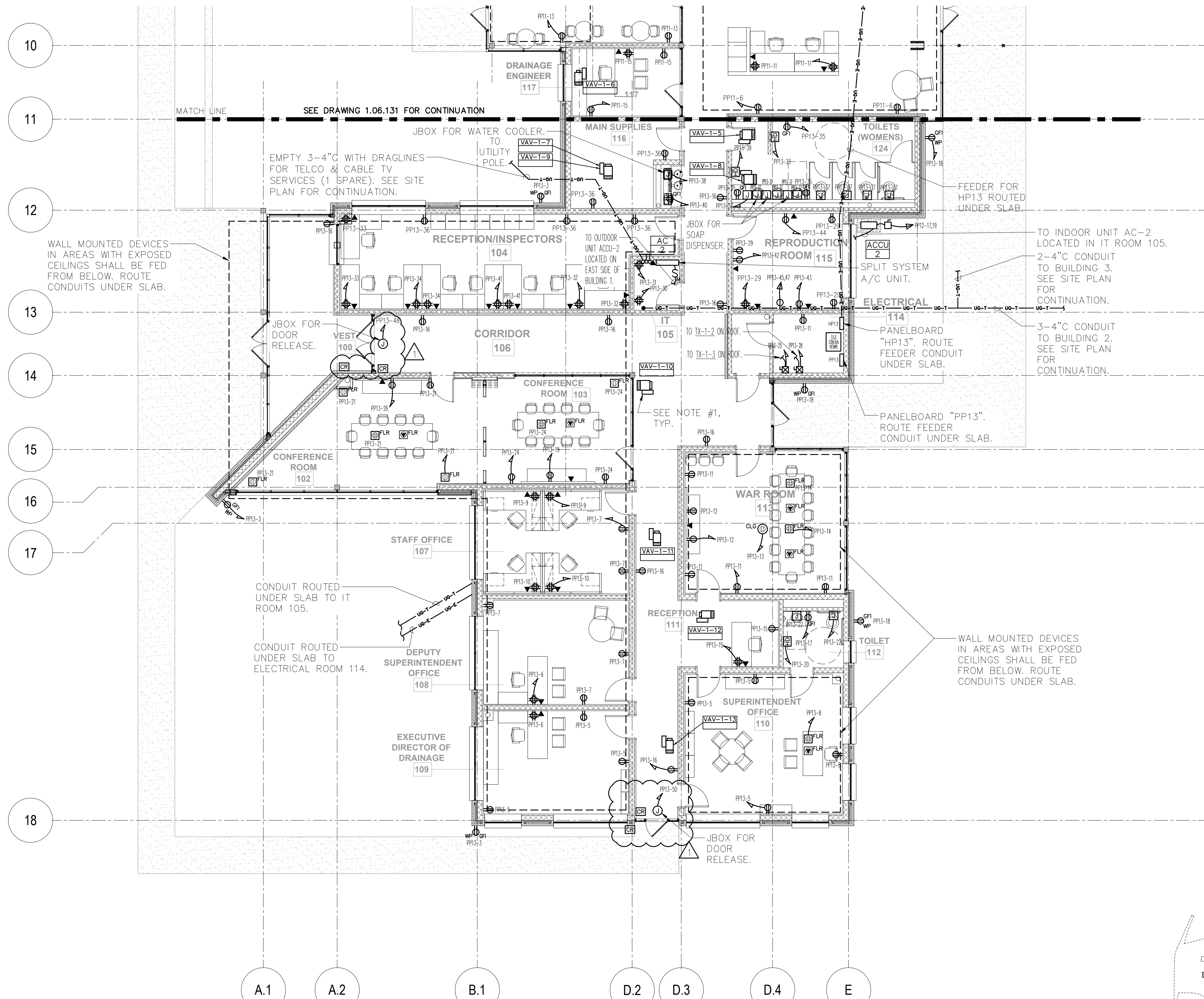


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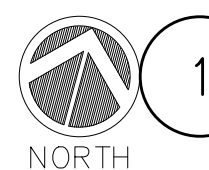
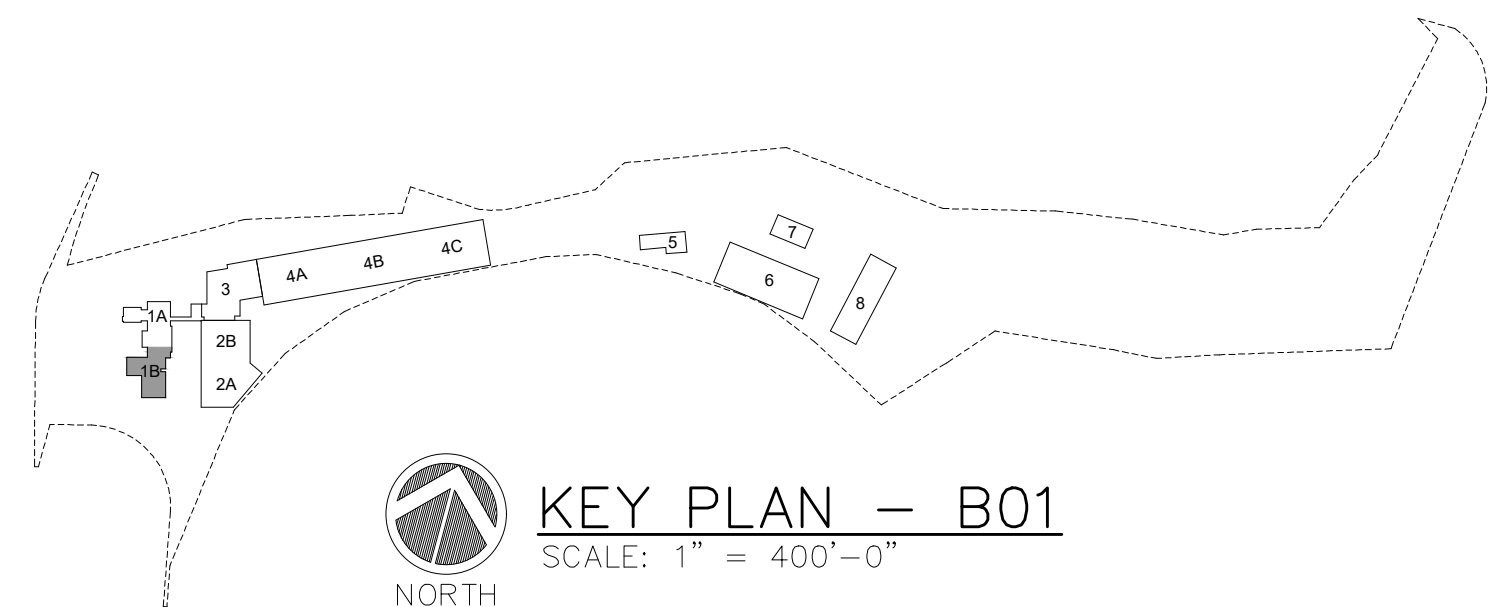
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NOTES:

1.) CIRCUIT VAVS TO PP12-26.



1 ELECTRICAL BUILDING 01 POWER PART PLAN
SCALE: 1/8" = 1'-0"

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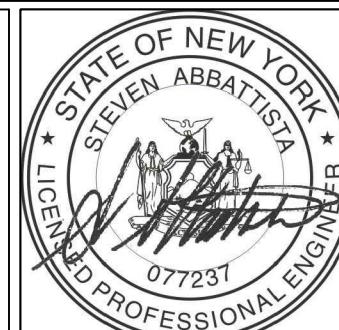
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SHEET NAME
**ELECTRICAL BUILDING 01
POWER PART PLAN**

No.	DATE	REVISION	BY
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