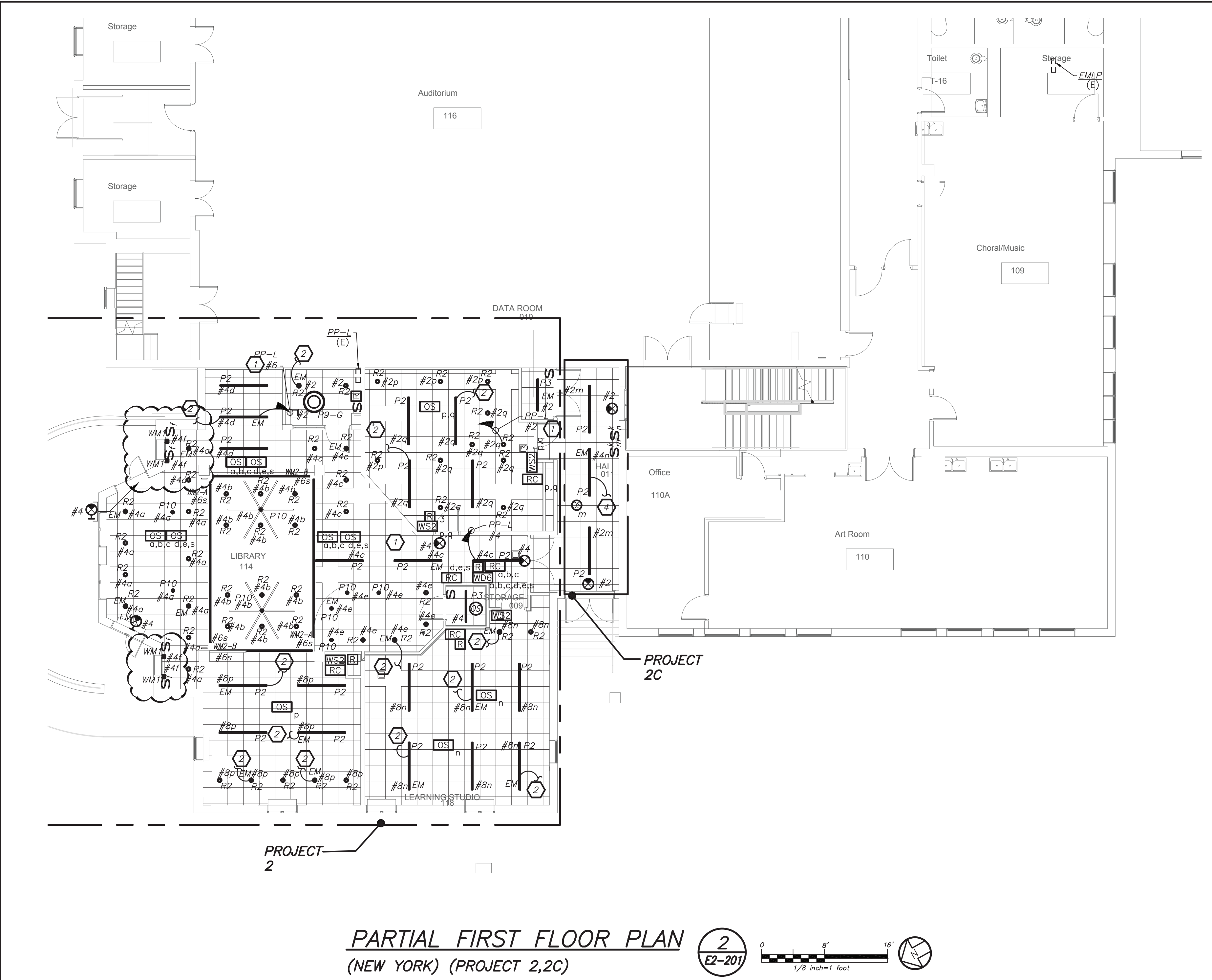


WORK NOTES:

1. CIRCUIT NUMBERS FOR CONTRACTOR GUIDANCE ONLY. WIRE LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
2. CIRCUIT EMERGENCY LIGHTING TO EMERGENCY PANEL EMLP #16. PROVIDE 2#12+1#12G IN 3/4".
3. CIRCUIT NUMBERS ARE FOR CONTRACTOR GUIDANCE ONLY. CIRCUIT LIGHTING TO CORRIDOR CIRCUIT MADE SPARE BY DEMO WORK. IF NOT OTHERWISE NOTED, LIGHTING SHALL BE CONTROLLED VIA EXISTING CORRIDOR LIGHT SWITCHES AND OCCUPANCY SENSORS.
4. CIRCUIT EMERGENCY LIGHTING TO EXISTING EMERGENCY CIRCUIT IN THE AREA.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH. UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.



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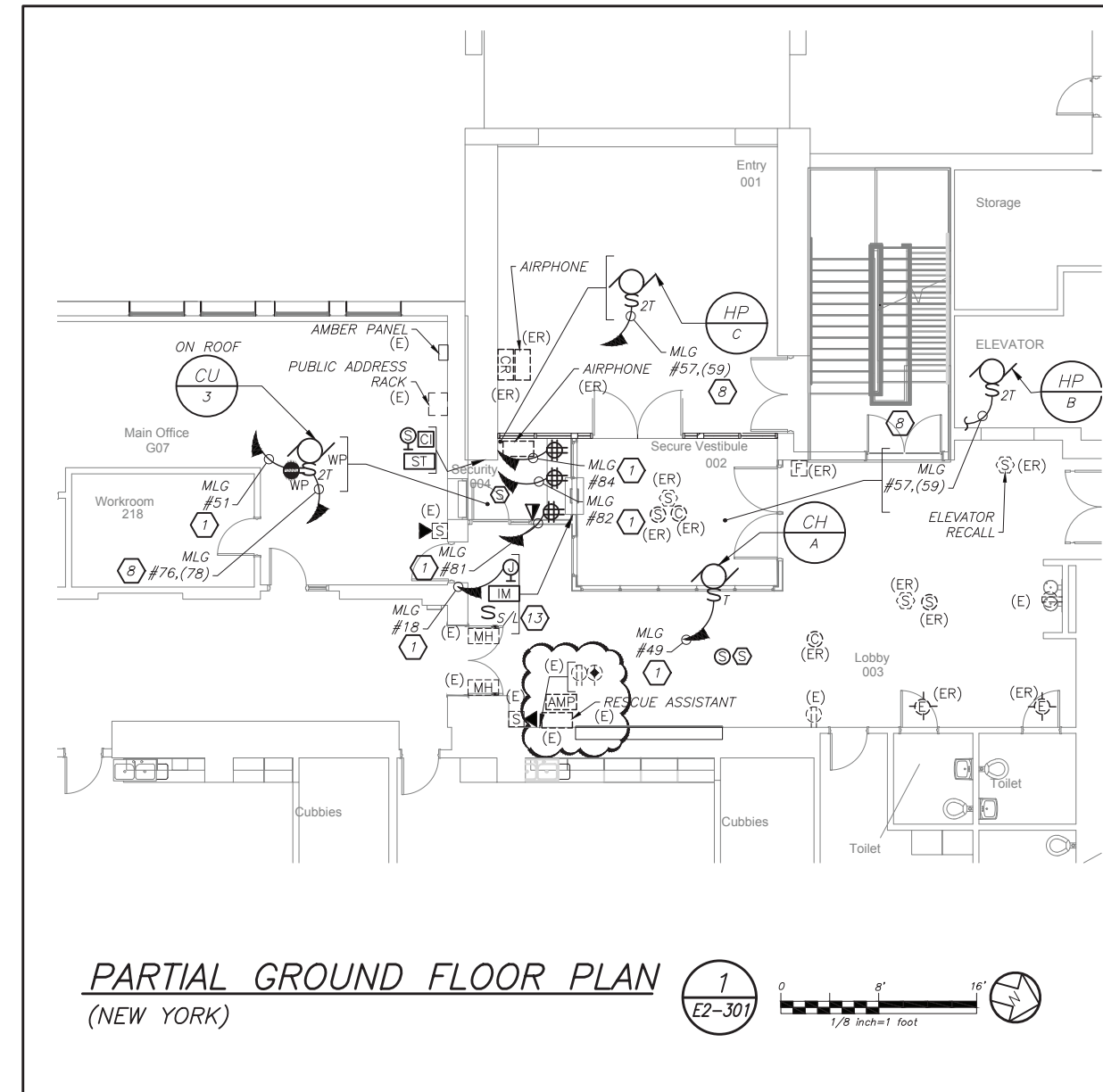
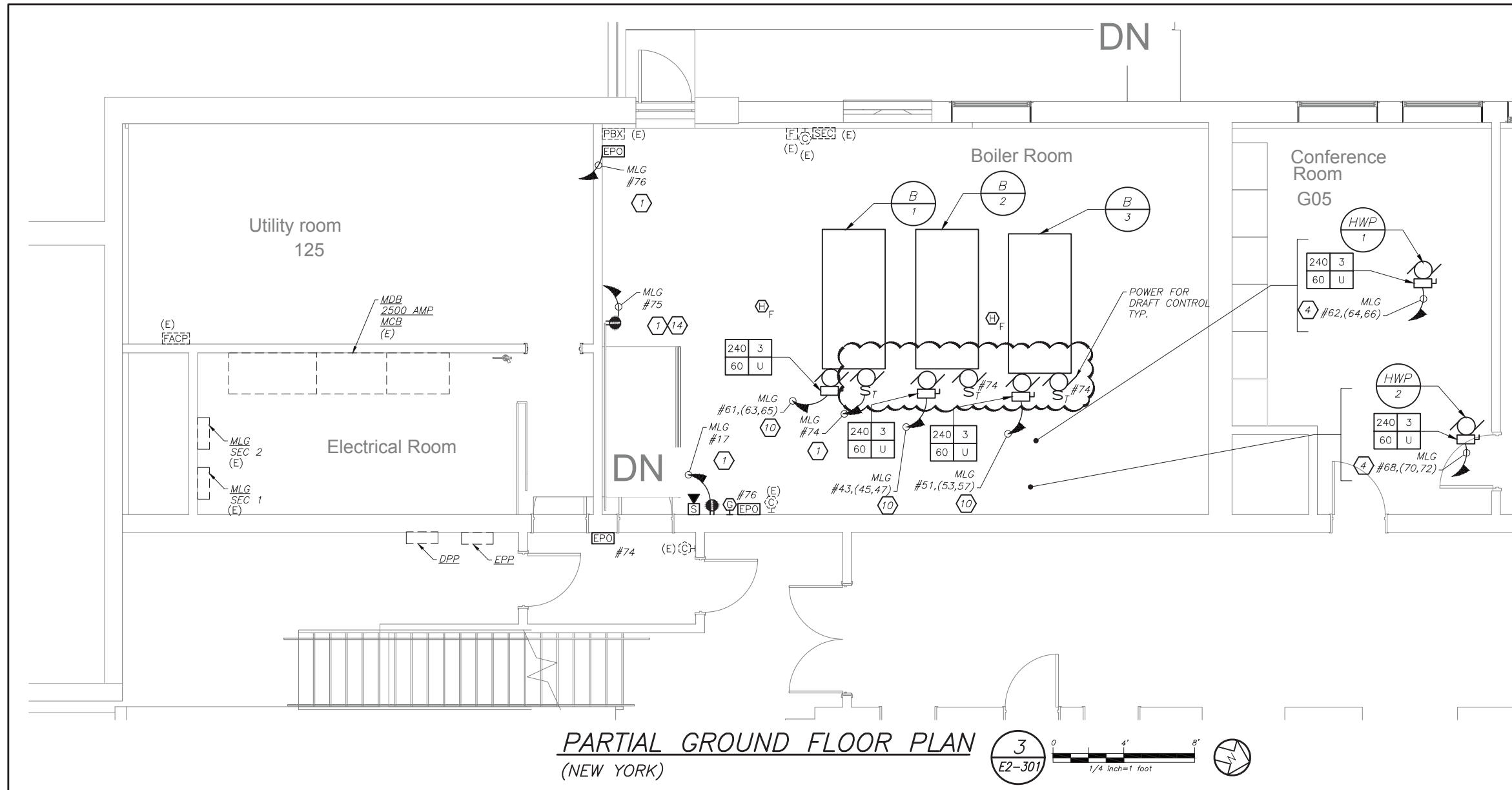
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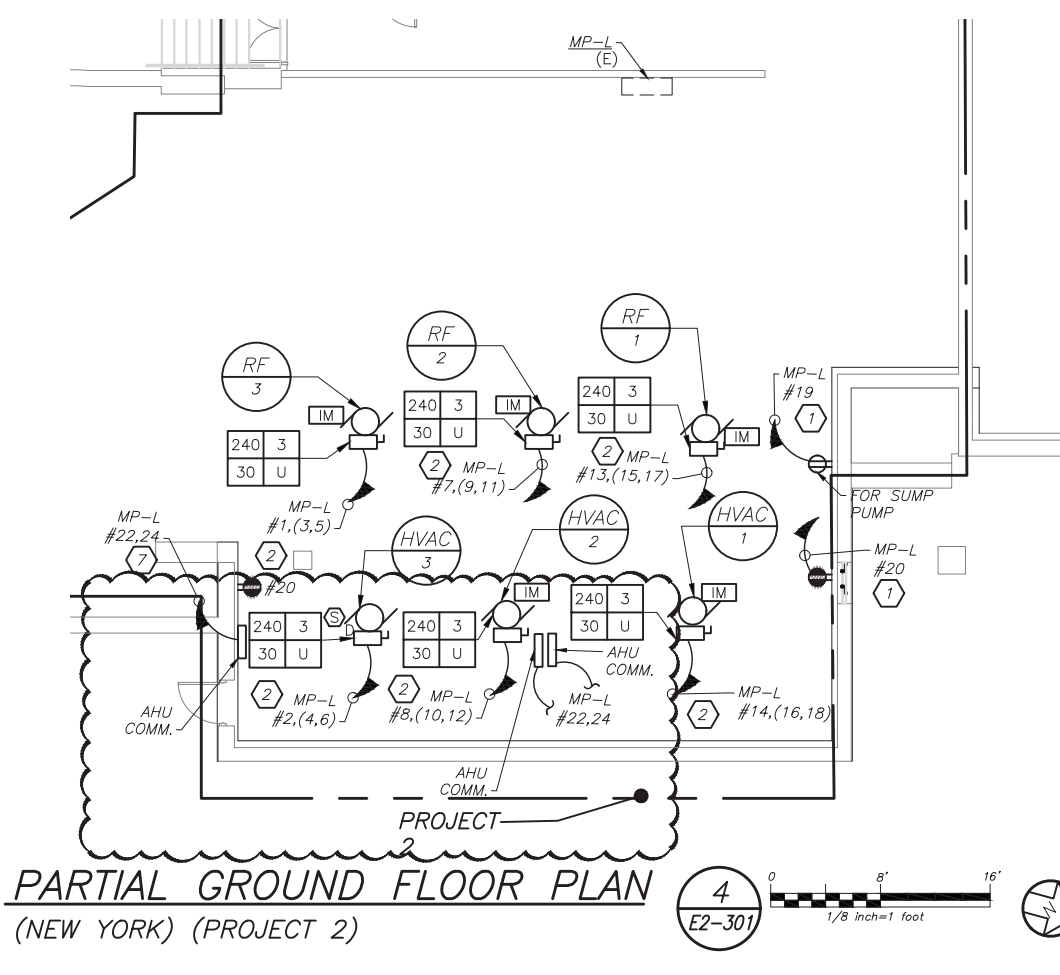
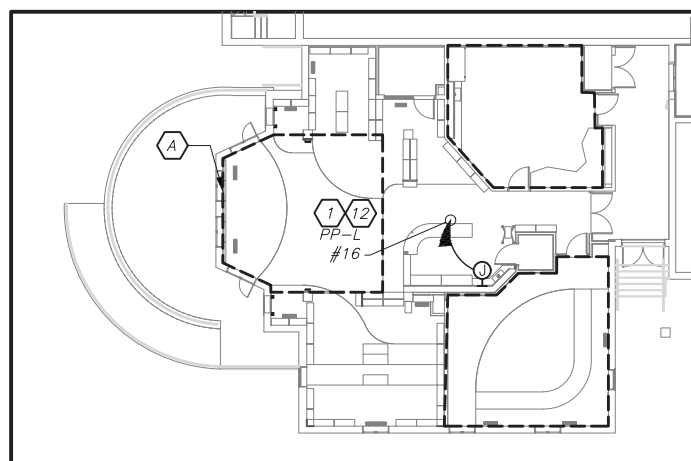
NEW ELECTRICAL
LIGHTING PLAN
PROJECT 2,2C

SEAL & SIGNATURE DATE: 02/11/20
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: E2-201



TELE COIL WORK NOTES:

- Ⓢ ELECTRICAL CONTRACTOR SHALL SCORE THE FLOOR AND FURNISH AND INSTALL TELECOIL LOOP. REFER TO AV2 DRAWINGS FOR MORE DETAILS ON THE TOTAL SCOPE OF WORK INCLUDING 27000 SECTION OF SPECIFICATION.

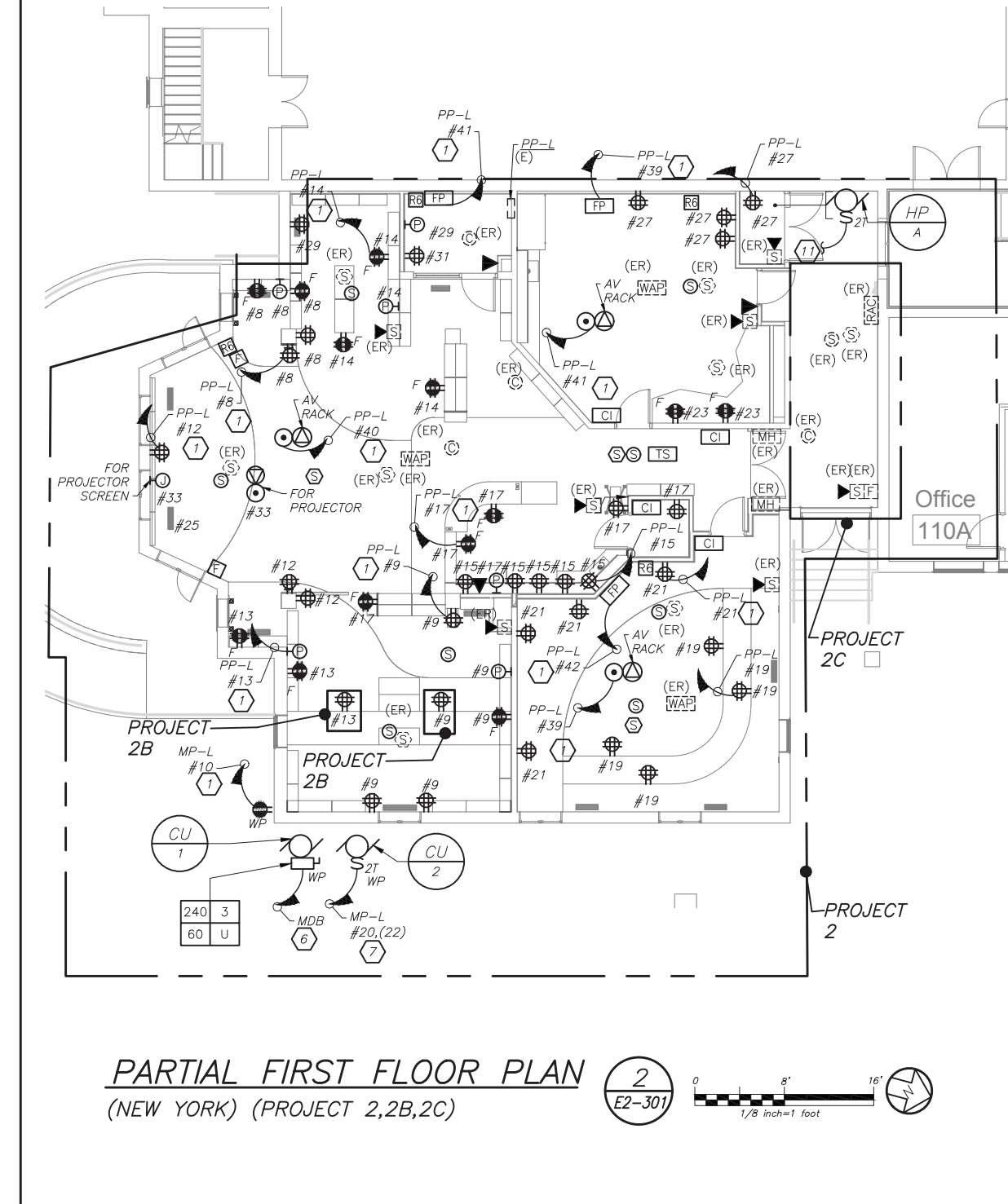


GENERAL NOTES:

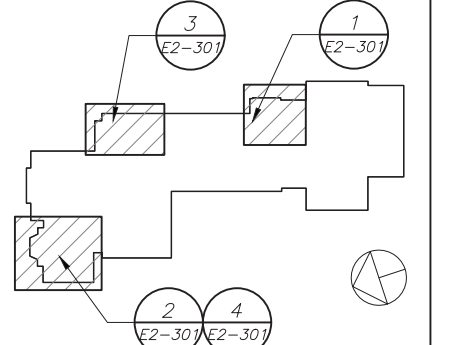
- COORDINATE ALL LIBRARY AV DEVICE LOCATIONS WITH AV CONTRACTOR BEFORE THE START OF ANY WORK.
- COORDINATE EXACT FINAL LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANYWORK. ELECTRICAL CONTRACTOR SHALL NOT START INSTALLATION UNTIL YOU THEY HAVE A SIGN OF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.

WORK NOTES:

- PROVIDE 2#12+1#12G IN 3/4" TO CIRCUIT AS INDICATED. PROVIDE 1P-20 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
- PROVIDE 3#12+1#12G IN 3/4" TO CIRCUIT AS INDICATED. PROVIDE 3P-20 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
- NOT USED
- PROVIDE 3#8+1#10G IN 3/4" TO PANEL AS INDICATED. PROVIDE 3P-40 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
- NOT USED
- PROVIDE 3#6+1#10G IN 1" TO THE MAIN DISTRIBUTION BOARD IN THE MAIN ELECTRICAL ROOM. PROVIDE 3P-60 AMP BREAKER.
- PROVIDE 2#12+1#12G IN 3/4" TO PANEL AS INDICATED. PROVIDE 2P-20AMP BREAKER.
- PROVIDE 2#12+1#12G IN 3/4" TO CIRCUIT AS INDICATED. PROVIDE 1P-20 AMP BREAKER. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
- NOT USED
- PROVIDE 3#8+1#10G IN 3/4" TO CIRCUIT AS INDICATED. PROVIDE 3P-40 AMP BREAKER WITH A SHUNT TRIP. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. WIRE TO CIRCUIT MADE SPARE BY DEMO WORK.
- PROVIDE POWER FOR INDOOR UNIT FROM CU-2 LOCATED ON GRADE. PROVIDE 2#12+1#12G IN 3/4 CONDUIT FOR CU-2 ON THE ROOM.
- PROVIDE POWER FOR TELE-COIL LOOP POWER SUPPLY.
- PROVIDE POWER FOR FIRE SHUTTERS, AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERFACE WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN.
- PROVIDE RECEPTACLE OF CHEMICAL FILL. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.



Revision Schedule		
No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021
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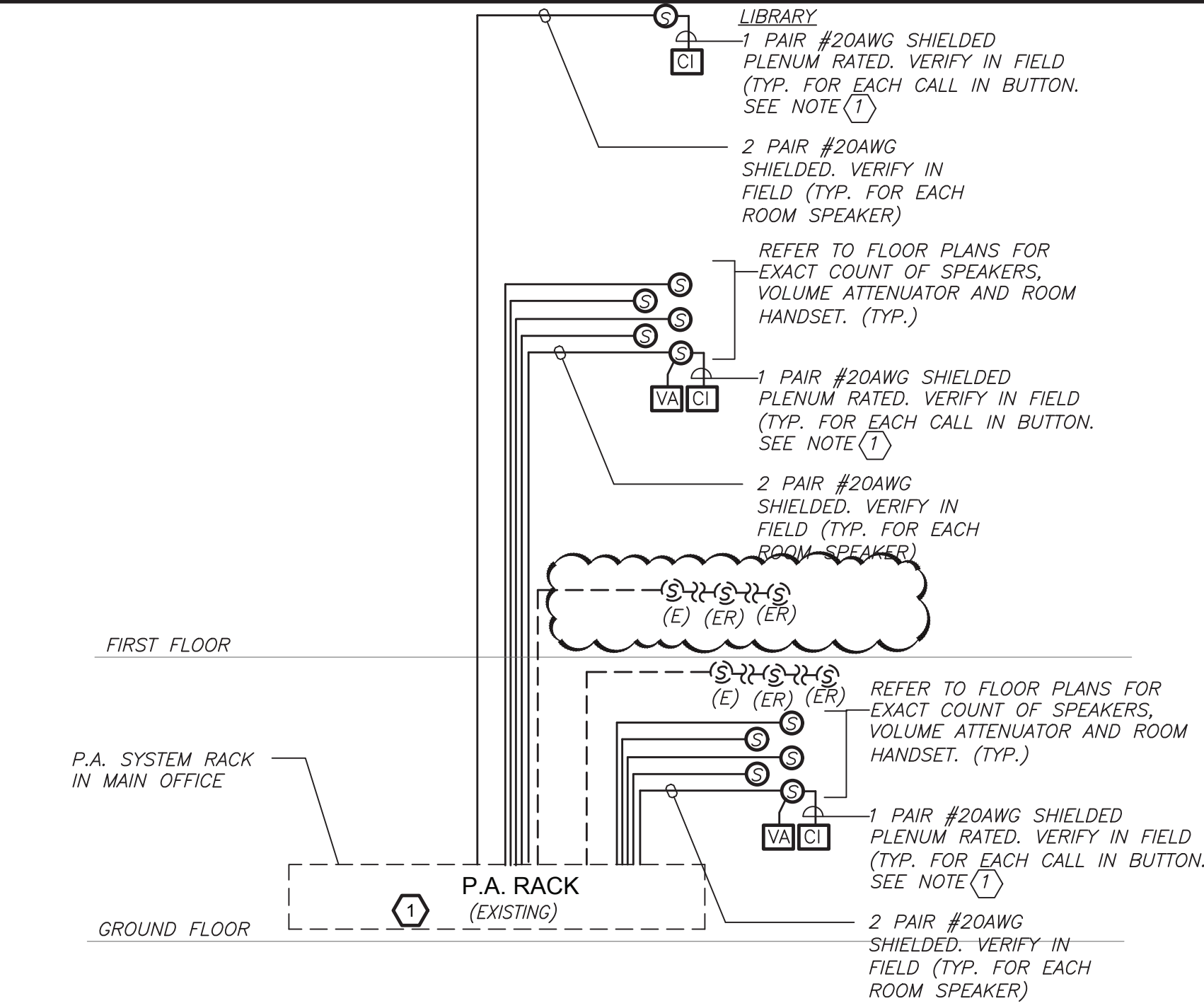
NEW ELECTRICAL
POWER AND FIRE
ALARM PLAN

PROJECT 2, 2A, 2B, 2C

SEAL & SIGNATURE		DATE:	02/11/20
		PROJECT No.:	9200
		DRAWING BY:	BGA
		CHK BY:	BGA
		DWG No.:	E2-301

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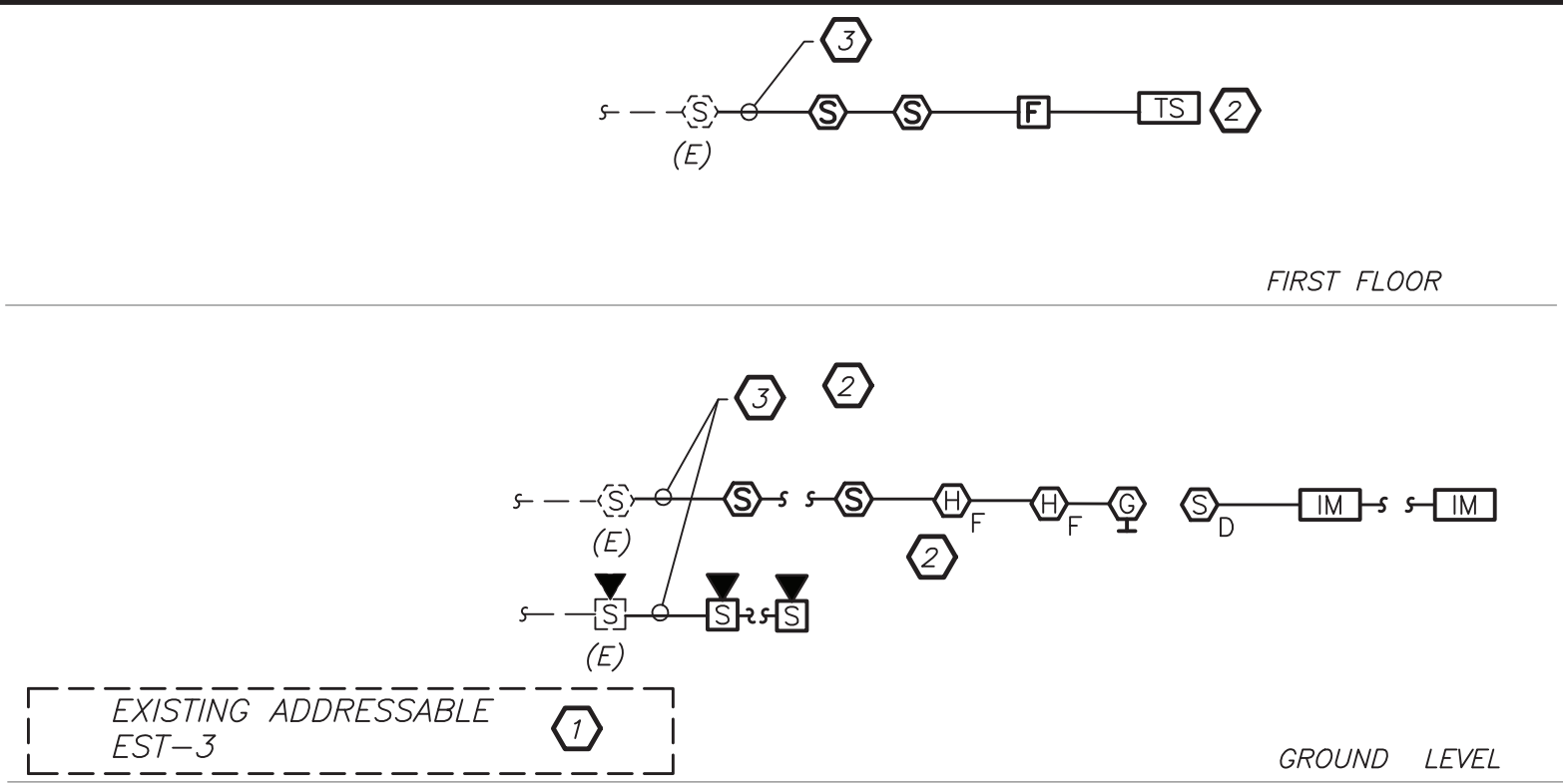
GENERAL NOTES:

1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED WIRING AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT IN CORRIDORS AND OFFICES WIRING SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). WIRING SHALL ALSO BE RUN IN EMT FOR STUB-UPS IN CONCEALED WALLS.
4. SPEAKERS SHALL MATCH EXISTING TYPE. VERIFY WATTAGE TAP REQUIREMENTS IN FIELD.
5. ALL PROGRAMMING AND FINAL CONNECTIONS TO EXISTING P.A. SYSTEM SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.

WORK NOTES:

1. PROVIDE NEW SWITCH ZONE CARD, AMPLIFIER, ETC. AS REQUIRED FOR COMPLETE INSTALLATION. EXISTING SYSTEM IS DUKANE AND IS LOCATED IN MAIN OFFICE.

PARTIAL PUBLIC ADDRESS RISER DIAGRAM 2 E2-501 N.T.S.



FIRE ALARM SYSTEM NOTES:

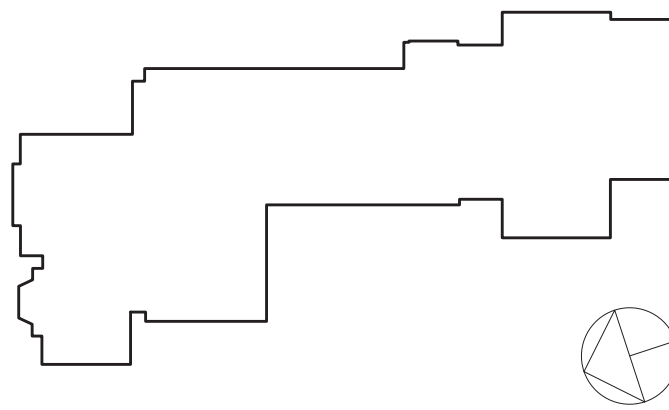
1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION. VERIFY EXACT QUANTITY OF DEVICES WITH PLANS.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED RELAYS, CONTACTS, ZONE BOARDS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM.
3. THE FIRE ALARM INSTALLATION SHALL COMPLY WITH STATE & LOCAL BUILDING CODES, NATIONAL ELECTRICAL CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), AND NFPA 72, 101 AND 90A AND STATE EDUCATION DEPT.
4. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT EXISTING FIRE ALARM SPEAKER SMOKE DETECTORS, AND OTHER FIRE ALARM SAFETY DEVICES IN OPERATION AT ALL TIMES. IF ANY PORTION OF FIRE ALARM SYSTEM IS DISABLED, NOTIFY BUILDING OWNER IMMEDIATELY.
6. UNLESS DIRECTED OTHERWISE BY FIRE ALARM MAINTENANCE VENDOR FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
SPEAKER WIRING - #16 AWG TWISTED
STROBE WIRING - #14 AWG TWISTED
SIGNAL WIRING - #14 AWG TWISTED/SHIELDED
THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
A. A MINIMUM TEMPERATURE RATING OF 150 C
B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
D. THE COLOR OF THE CABLE SHALL BE RED
E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED.
SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.
CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
7. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
8. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
9. WALL MOUNTED SPEAKER/STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80", AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING. DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
10. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
11. COORDINATE F.A. WORK WITH F.A. VENDOR.
12. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
13. ALL DEVICES SHALL BE SUPERVISED AS PER N.E.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
14. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.

FIRE ALARM RISER WORK NOTES:

1. PROVIDE ALL NECESSARY EXPANSION COMPONENTS (LOOP CARDS, ETC.) BOOSTER POWER SUPPLIES, REMOTE BOOSTER POWER SUPPLIES, PROGRAMMING, UPDATE DATA BASE, TESTING, ETC. PANEL IS LOCATED IN THE ELECTRICAL ROOM ON THE LOWER LEVEL.
2. PROVIDE DEVICE ADDRESS WITH A PERMANENT TYPE LABEL FOR ALL INITIATING DEVICES.
3. CONNECT TO EXISTING LOOP

FIRE ALARM RISER DIAGRAM 1 E2-501 N.T.S.

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ELECTRICAL RISERS

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