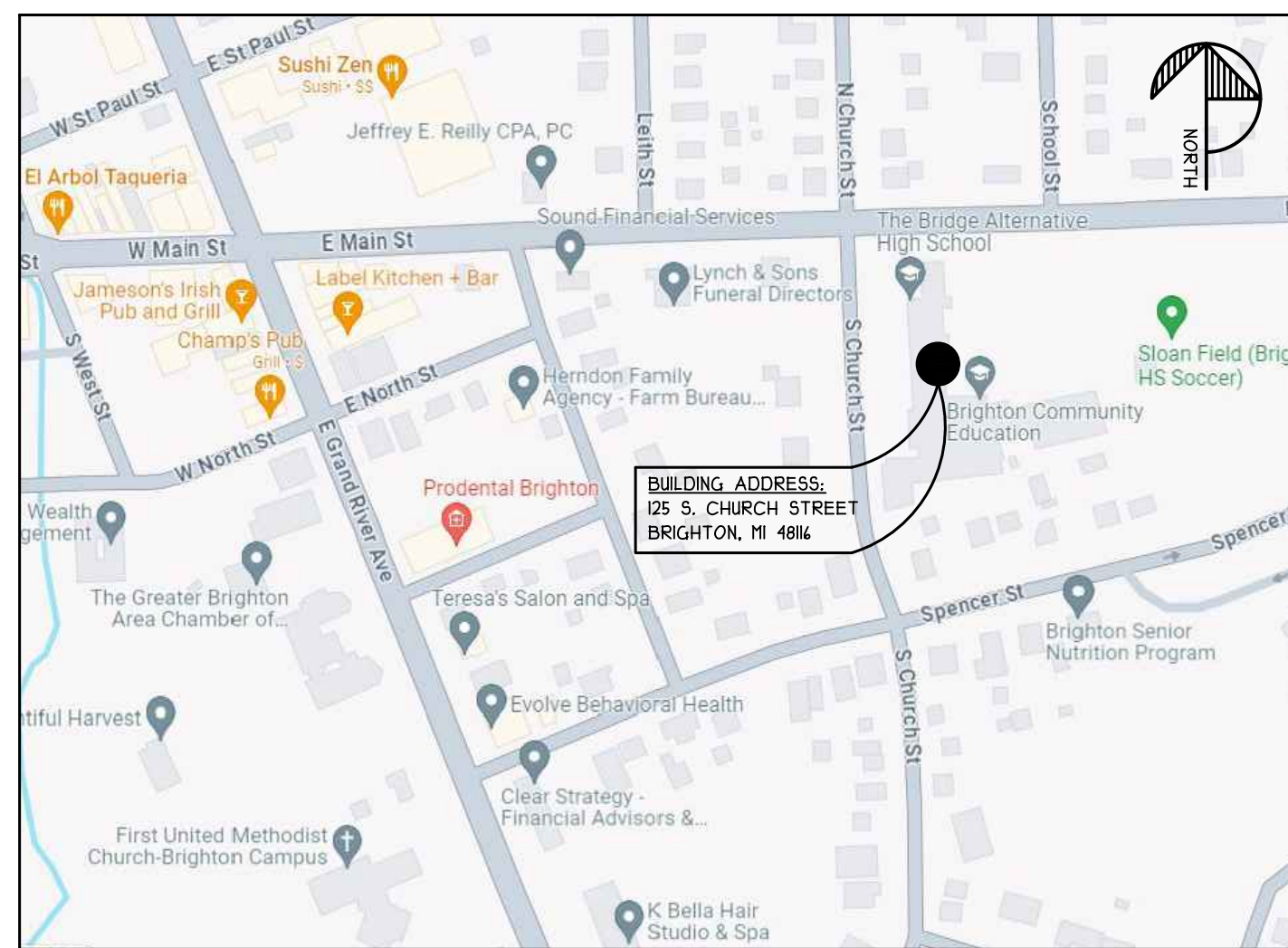


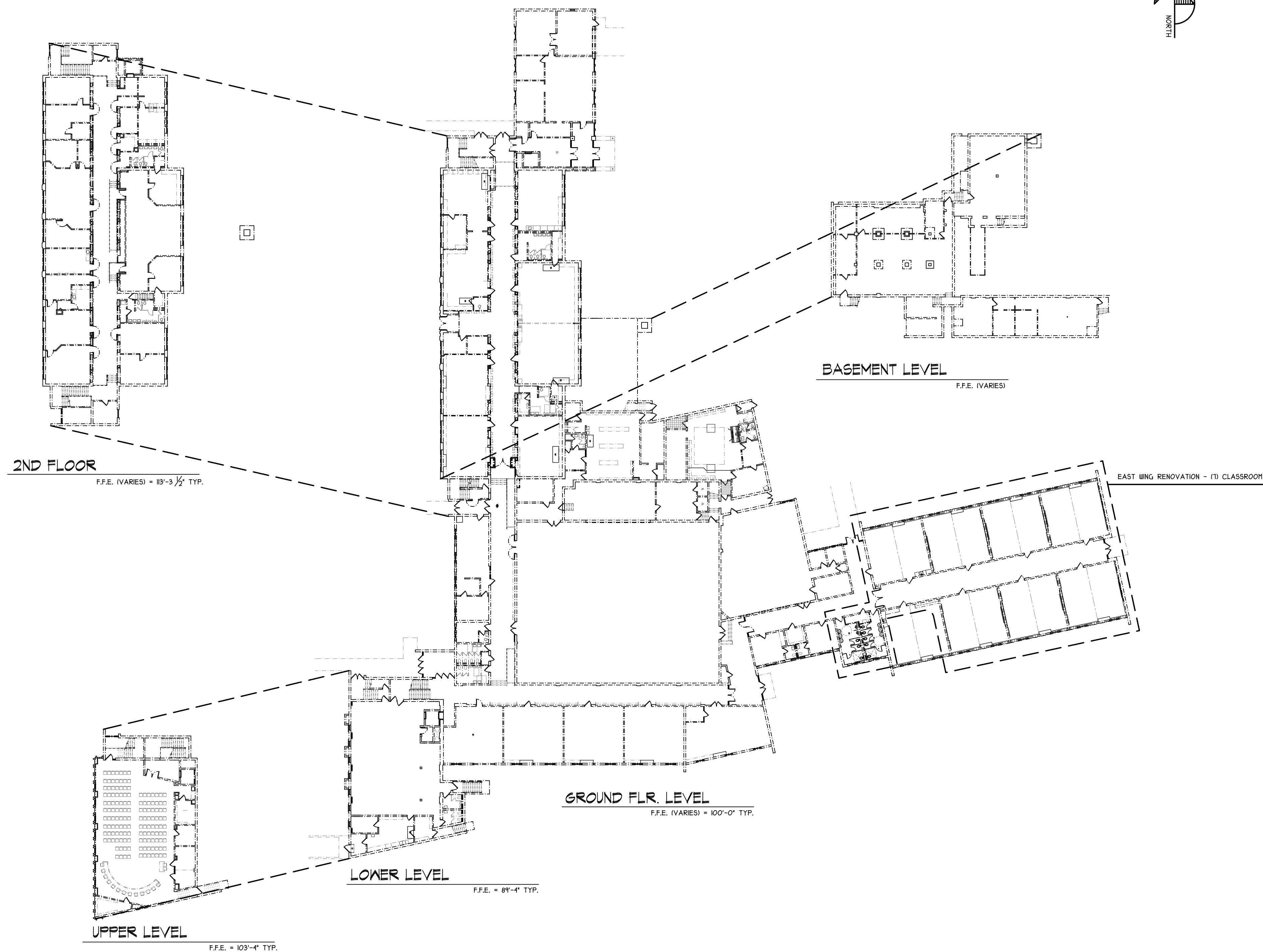
# BRIGHTON AREA SCHOOLS - B.E.C.C. BLDG.

## MISC. IMPROVEMENTS



LOCATION MAP

NOT TO SCALE



COMPOSITE PLANS

SCALE: 1/32" = 1'-0"

### PROJECT NARRATIVE

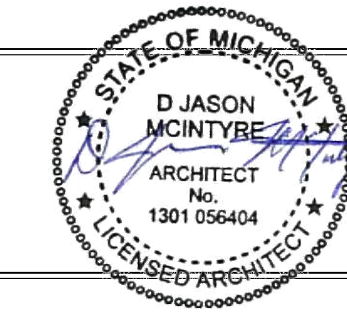
THIS PROJECT CONSISTS OF FIVE COMPONENTS W/IN THE BRIGHTON AREA SCHOOLS B.E.C.C. BUILDING:  
 1. REMOVE AND REPLACE EXISTING 1ST FLOOR MECHANICAL UNITS AS NEEDED TO PROVIDE AIR CONDITIONING.  
 2. REMOVE AND REPLACE EXISTING EXTERIOR WINDOWS THROUGHOUT.  
 3. REMOVE AND REPLACE EXISTING FIRE ALARM PANEL AND DEVICES.  
 4. (EAST WING) RENOVATE 1 FORMER CLASSROOMS INTO NEW/UPDATED CLASSROOMS FOR THE DISTRICT.  
 5. MISCELLANEOUS ROOM RENOVATIONS. GENERAL SCOPE INCLUDES FINISHES AND MEP FIXTURES AS NOTED.

ALTERATIONS DO NOT AFFECT EXISTING EGRESS, OCCUPANCY TYPE, OR OCCUPANT LOAD. EXISTING BUILDING SIZE, CONSTRUCTION TYPE, OR FIRE RATINGS TO REMAIN UNCHANGED AS WELL. THIS WORK IS CLASSIFIED AS LEVEL 2 ALTERATIONS UNDER THE MICHIGAN REHABILITATION CODE, 205. THE BUILDING IS NON-SPRINKLERED.

### APPLICABLE CODES:

205 MICHIGAN REHABILITATION CODE  
 208 MICHIGAN PLUMBING CODE  
 206 MICHIGAN BUILDING CODE  
 205 INTERNATIONAL BUILDING CODE  
 2004 MICHIGAN BARRIER FREE  
 202 NFPA 101

208 MICHIGAN PLUMBING CODE  
 206 MICHIGAN MECHANICAL CODE  
 205 INTERNATIONAL FIRE CODE  
 201 NATIONAL ELECTRIC CODE



### BUILDING INFORMATION:

\*UNCHANGED\*

### FIRE RESISTANCE RATING (UNCHANGED CONSTRUCTION):

\*UNCHANGED\*

### OCCUPANCY CALCULATIONS (BUSINESS OCCUPANCY):

\*UNCHANGED\*

### REQUIRED EGRESS COMPONENTS:

\*UNCHANGED\*

### PLUMBING FIXTURE REQUIREMENTS, PER MICHIGAN LABOR PLUMBING CODE, TABLE 403.1

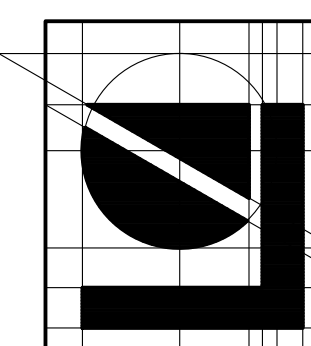
\* (2) EXISTING MULTI-OCCUPANT BATHROOMS PROPOSED RENOVATIONS SHALL REDUCE WATER CLOSET COUNTS BY ONE (1) FIXTURE TO MEET & IMPROVE ADA REQUIREMENTS \*

### PROJECT INFORMATION

#### ISSUANCE

ARCHITECTURAL & INTERIORS	BIDS & PERMITS	ADD 01	ADD 02	BULL 01
CA COVER & CODE INFORMATION	X			
D1 DEMO PLANS	X			
D2 ENLARGED DEMO PLANS	X			
AI1 ENLARGED FLOOR PLANS	X			
AI2 ENLARGED REFL. CLG. PLAN	X			
A2.1 INTERIOR ELEVATIONS & DETAILS	X			
ID100 FINISH PLAN & KEY	X			
ID200 FINISH PLAN, KEY, & BID ALTERNATES	X			
ID400 REFLECTED CEILING PLANS	X			
W1.1 WINDOW REPLACEMENT PLAN - FIRST FLR.	X			
W1.2 WINDOW REPLACEMENT PLAN - 2ND FLR.	X			
W2.1 WINDOW REPLACEMENT EXT. ELEVATIONS.	X			
W2.2 WINDOW REPLACEMENT EXT. ELEVATIONS	X			
PLUMBING				
F1.0 GENERAL PLUMBING INFORMATION	X			
FD1.1 1ST FLR. - PLUMBING DEMOLITION PLAN	X			
FD1.2 1ST FLR. - PLUMBING NEW WORK PLAN	X			
MECHANICAL				
M1.0 MECHANICAL SPECIFICATIONS AND LEGEND	X			
MD1.1 1ST FLR. - PARTIAL MECHANICAL DEMO PLAN	X			
MD1.2 1ST FLR. - PARTIAL MECHANICAL DEMO PLAN	X			
MD1.3 1ST FLR. - PARTIAL MECHANICAL DEMO PLAN	X			
MD1.4 1ST FLR. - PARTIAL MECHANICAL DEMO PLAN	X			
M1.1 PARTIAL 1ST FLR. - MECHANICAL NEW WORK PLAN	X			
M1.2 PARTIAL 1ST FLR. - MECHANICAL NEW WORK PLAN	X			
M1.3 PARTIAL 1ST FLR. - MECHANICAL NEW WORK PLAN	X			
M1.4 PARTIAL 1ST FLR. - MECHANICAL NEW WORK PLAN	X			
M2.1 PARTIAL ROOF - MECHANICAL NEW WORK PLAN	X			
M2.2 PARTIAL ROOF - MECHANICAL NEW WORK PLAN	X			
M2.3 PARTIAL ROOF - MECHANICAL NEW WORK PLAN	X			
M2.4 PARTIAL ROOF - MECHANICAL NEW WORK PLAN	X			
M3.1 MECHANICAL DETAILS	X			
M4.1 MECHANICAL SCHEDULE	X			
M4.2 MECHANICAL SCHEDULE	X			
M4.3 MECHANICAL SCHEDULE	X			
ELECTRICAL				
E0.1 GENERAL ELECTRICAL INFORMATION	X			
E0.2 LIGHTING FIXTURE, CONTROLS SCHEDULE, & NOTES	X			
ED1.1 1ST FLR. - ELECTRICAL DEMOLITION PLAN	X			
E1.1 PARTIAL 1ST FLR. - NEW WORK ELECTRICAL PLAN	X			
E1.2 PARTIAL 1ST FLR. - NEW WORK ELECTRICAL PLAN	X			
E1.3 PARTIAL 1ST FLR. - NEW WORK ELECTRICAL PLAN	X			
E1.4 PARTIAL 1ST FLR. - NEW WORK ELECTRICAL PLAN	X			
E2.1 PARTIAL ROOF PLAN - NEW WORK ELECTRICAL PLAN	X			
E2.2 PARTIAL ROOF PLAN - NEW WORK ELECTRICAL PLAN	X			
E2.3 PARTIAL ROOF PLAN - NEW WORK ELECTRICAL PLAN	X			
E2.4 PARTIAL ROOF PLAN - NEW WORK ELECTRICAL PLAN	X			
E3.1 PARTIAL 1ST FLR. - NEW WORK LIGHTING PLAN	X			
E4.1 PARTIAL ONE-LINE DIAGRAM & SCHEDULE	X			
E5.1 ELECTRICAL SPECIFICATIONS	X			
E5.2 ELECTRICAL SPECIFICATIONS	X			
FIRE ALARM				
EF0.1 GENERAL ELECTRICAL INFORMATION	X			
EF1.1 PARTIAL 1ST FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF1.2 PARTIAL 1ST FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF1.3 PARTIAL 1ST FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF1.4 PARTIAL 1ST FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF1.5 PARTIAL 1ST FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF2.1 PARTIAL 2ND FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF2.2 PARTIAL 2ND FLR. - NEW FIRE ALARM SYSTEMS WORK	X			
EF3.1 ELECTRICAL SPECIFICATIONS	X			
EF3.2 ELECTRICAL SPECIFICATIONS	X			

SHEET INDEX



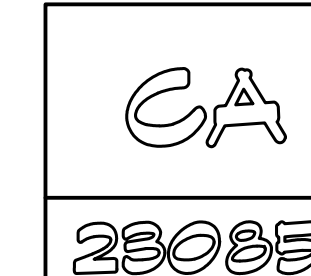
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consultant

BIDS & PERMITS  
 OWNER REVIEW  
 issued for

3/18/2024  
 3/27/2025  
 11/2/2023  
 date

RENOVATIONS for:  
 BRIGHTON AREA SCHOOLS  
 (B.E.C.C. BLDG.) BRIGHTON, MICHIGAN  
 COVER



FILE LOCATION: C:\LINDHOUT\23084-088 BAS phase 4\23085 Project 2 - BECC East wing reno\dwg\CD\23085-CA code & cover.dwg  
 LINDHOUT ASSOCIATES architects aia pc  
 COPYRIGHT © 2023  
 DATE PLOTTED: 3/10/2024

ELECTRICAL SYMBOL LIST

POWER SYMBOLS

Table with 2 columns: SYMBOL, DESCRIPTION. Lists various electrical symbols like duplex receptacles, junction boxes, meters, and switches.

POWER SYMBOLS

Table with 2 columns: SYMBOL, DESCRIPTION. Lists symbols for wall-mounted surface metal race way, disconnect switches, motor starters, and control panels.

LOW VOLTAGE SYMBOLS

Table with 2 columns: SYMBOL, DESCRIPTION. Lists symbols for data outlets, proximity reader outlets, key switches, and television outlet boxes.

LIGHTING SYMBOLS

Table with 2 columns: SYMBOL, DESCRIPTION. Lists symbols for single pole toggle switches, three-way switches, emergency lights, and various lighting fixtures.

FIRE ALARM & EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SYMBOLS

Table with 2 columns: SYMBOL, DESCRIPTION. Lists symbols for fire alarm manual pull stations, speakers, visual devices, and communication panels.

PROJECT SPECIFIC NOTES

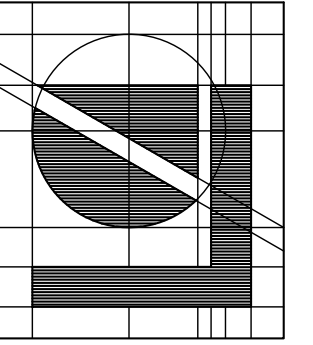
- List of project-specific notes including applicable codes (Michigan Building Code, NEC, NFPA), surge protection requirements, and coordination with other trades.

GENERAL NOTES

- General notes covering code compliance, field verification, coordination of ceiling-mounted devices, and equipment installation requirements.

GENERAL NOTES - DEMOLITION

- Demolition notes detailing requirements for safe removal of electrical systems, including disconnecting, removing, and reconnection of equipment.



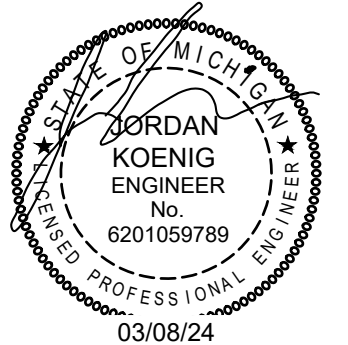
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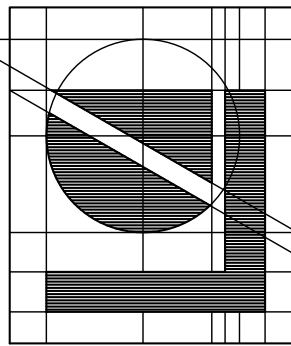
BIDS & PERMITS issued for

dr: D.P.
ckt: J.E.
app'd: J.K.
03/08/2024
date

RENOVATIONS for:
BRIGHTON AREA SCHOOLS
(B.E.C.C. BLDG.) BRIGHTON, MICHIGAN
GENERAL ELECTRICAL INFORMATION



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MEEC JOB # 23-013

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APP'D: J.K.

03/08/2024  
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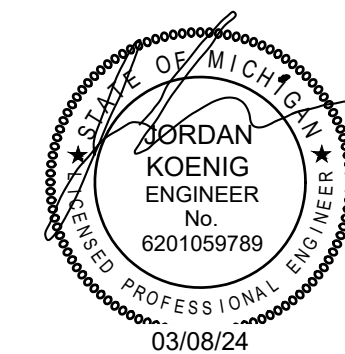
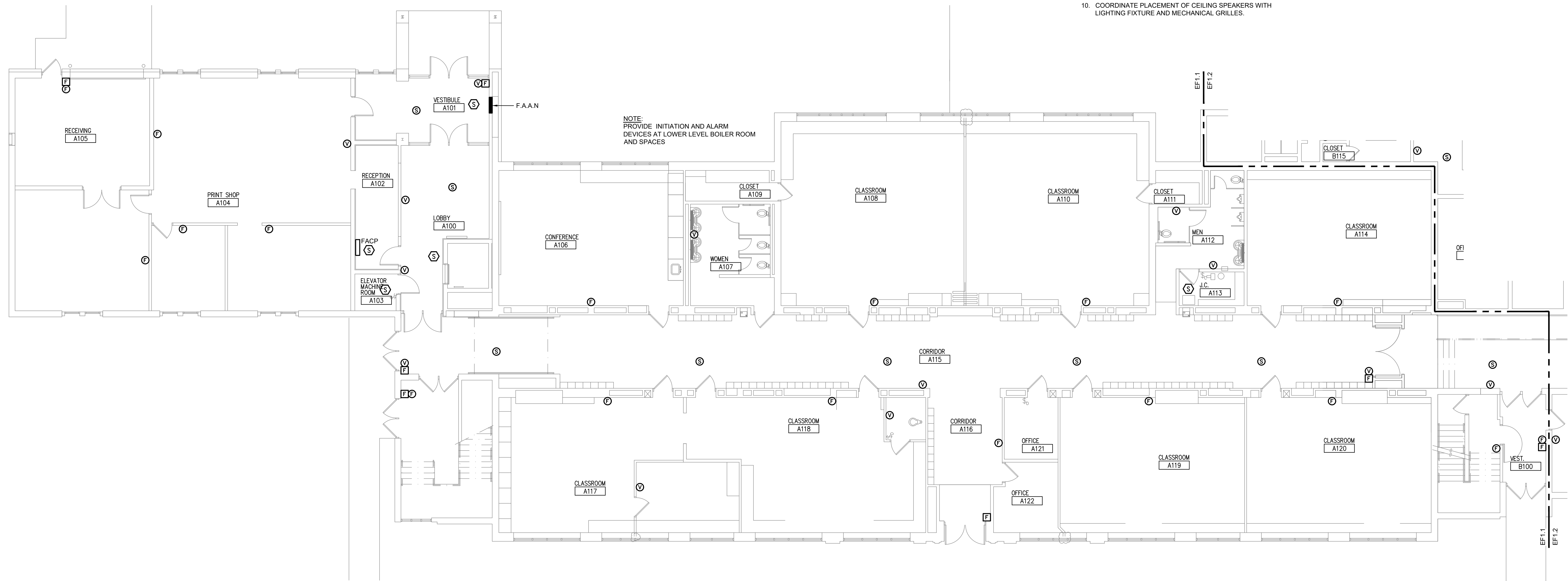
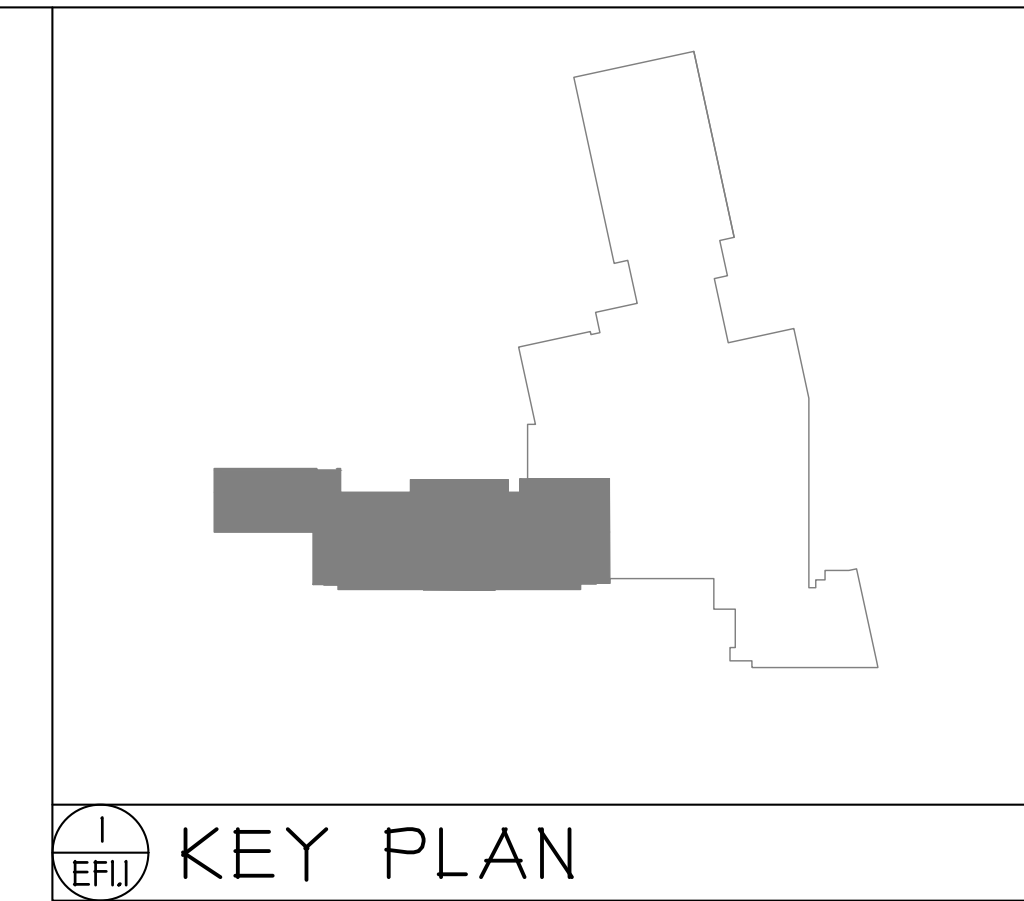
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RENOVATIONS for:  
**BRIGHTON AREA SCHOOLS**  
(B.E.C.C. BLDG.) BRIGHTON, MICHIGAN  
PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN

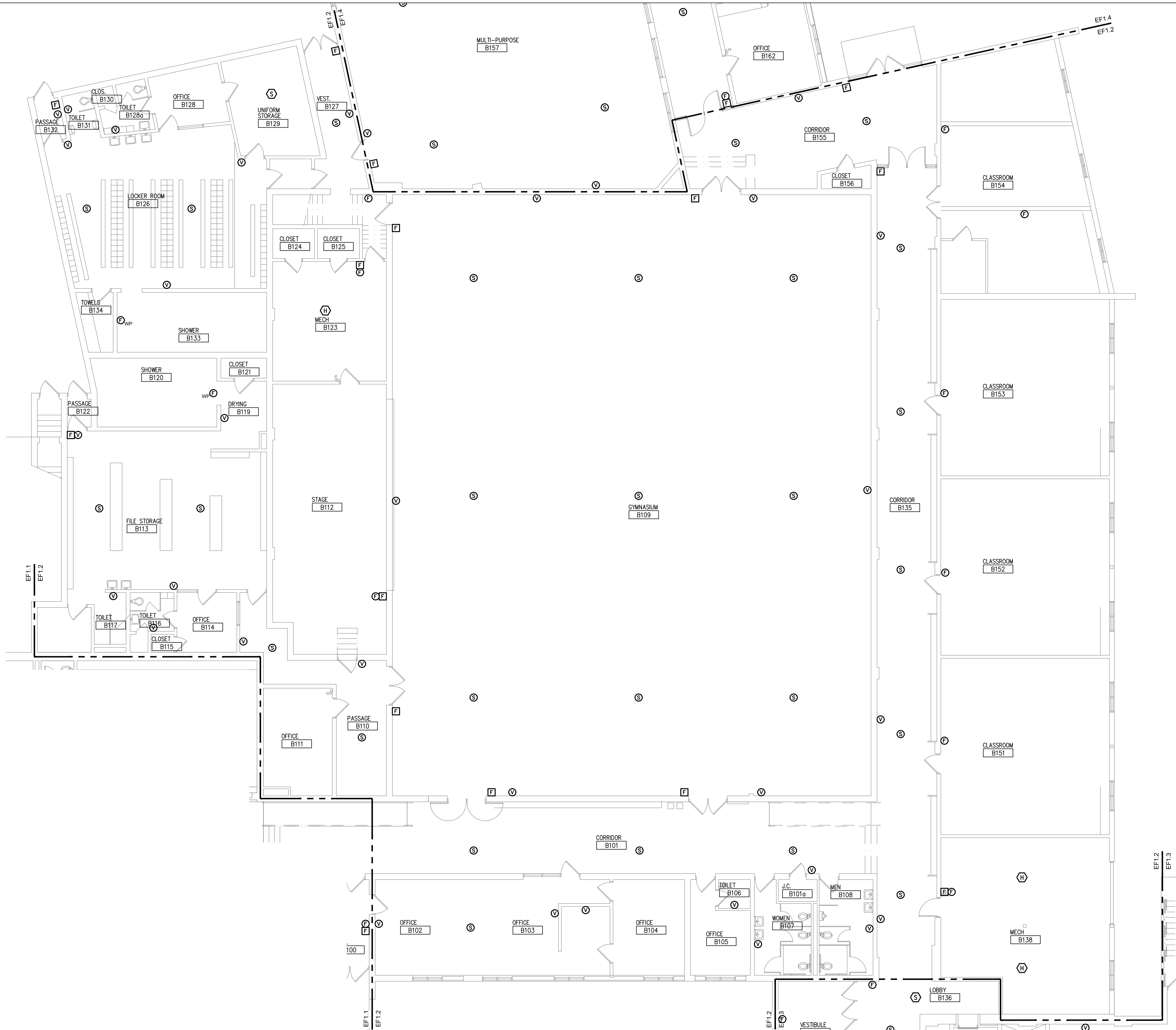
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23086

**BUILDING FIRE ALARM NOTES:**

1. ACTUAL CONDUIT SIZE AND ROUTING TO BE AS DIRECTED BY THE FIRE ALARM NICET CERTIFIED DESIGNER.
2. THE ELECTRICAL CONTRACTOR SHALL HIRE A NICET LEVEL 3 CERTIFIED FIRE ALARM DESIGNER TO DESIGN THE FIRE ALARM AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM.
3. THE DRAWINGS INDICATE ASSUMED LOCATIONS OF DEVICES AND SUGGESTED CONDUIT ROUTING DIAGRAMS ON THE PLANS. A FIRE ALARM NICET LEVEL 3 CERTIFIED FIRE ALARM DESIGNER SHALL DETERMINE THE ACTUAL DEVICE TYPES AND THEIR LOCATIONS, OUTPUT AND THE ROUTING OF ALL RACEWAYS.
4. REFER TO SPECIFICATIONS SECTION 28 31 11 - DIGITAL ADDRESSABLE FIRE ALARM AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM FOR ADDITIONAL REQUIREMENTS AND DESCRIPTION OF SYSTEM.
5. REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE ALARM DEVICES.
6. PROVIDE VISUAL NOTIFICATION DEVICES WITH CANDELA RATINGS SIZED PER ANSI 117.1 AND NFPA 72.
7. THE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL PROVIDE FULL INTELLIGIBILITY THROUGHOUT THE AREA.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NAC PANELS, ACCESSORIES, CIRCUITS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
9. ALL FIRE ALARM WIRING SHALL COMPLY WITH NFPA 70., ARTICLE 760.
10. COORDINATE PLACEMENT OF CEILING SPEAKERS WITH LIGHTING FIXTURE AND MECHANICAL GRILLES.



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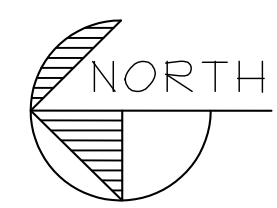
**KEY PLAN**

**BUILDING FIRE ALARM NOTES:**

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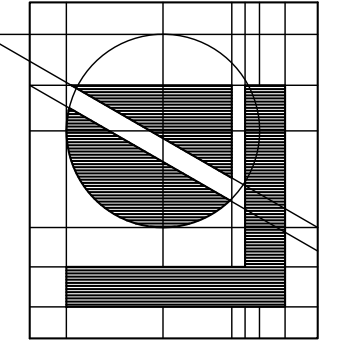


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SCALE: 1/8" = 1'-0"

**1 EF1.2 PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN**



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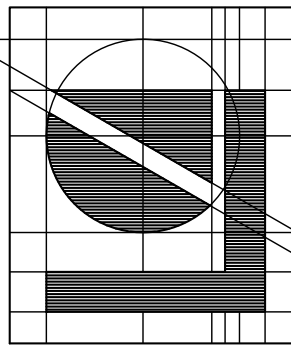


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MEEC-008 # 23-013

DR: D.P.  
CK'D: J.E.  
APP'D: J.K.  
03/08/2024  
date  
BIDS + PERMITS  
issued for

RENOVATIONS for:  
**BRIGHTON AREA SCHOOLS**  
(B.E.C.C. BLDG.) BRIGHTON, MICHIGAN  
PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN

**EF1.2**  
**23086**



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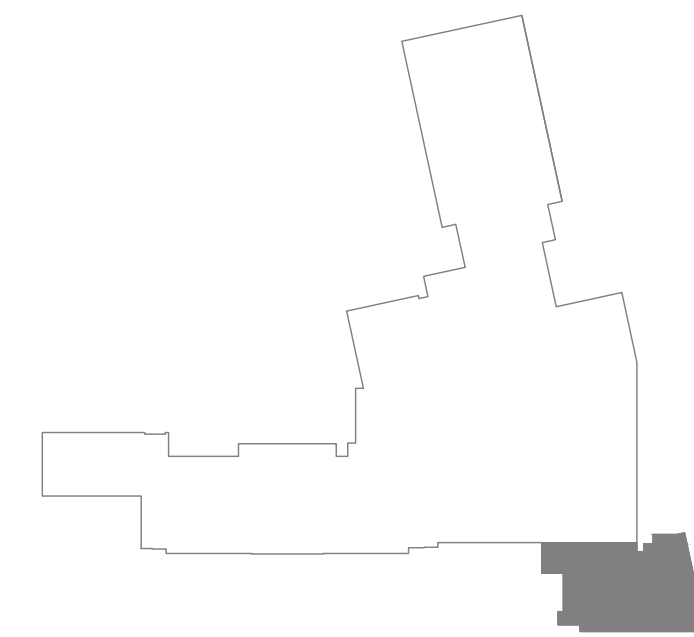
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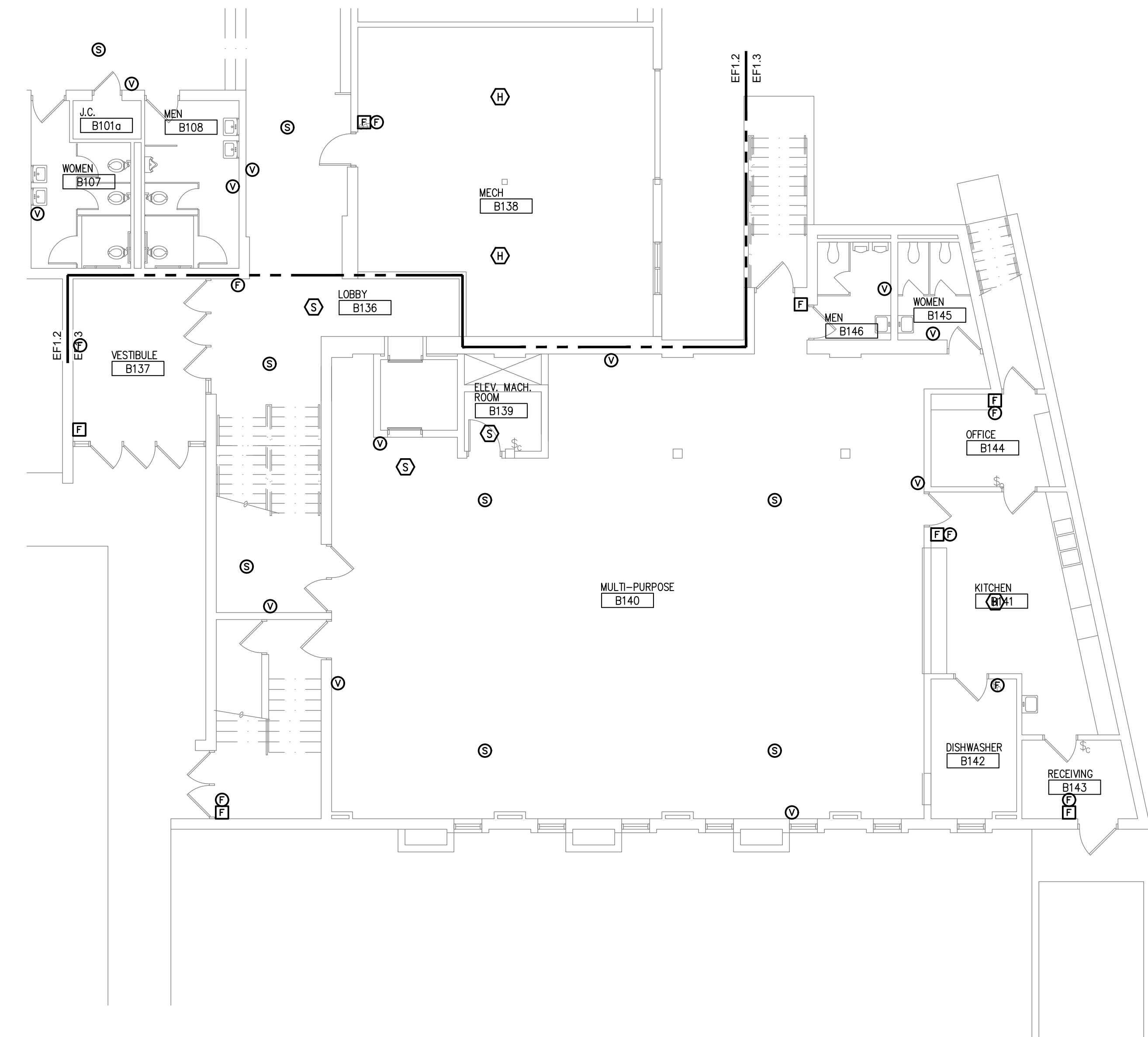
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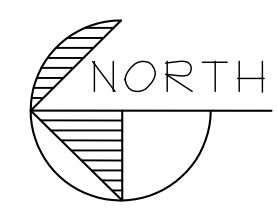
**1 EF1.3 KEY PLAN**

**BUILDING FIRE ALARM NOTES:**

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6. PROVIDE VISUAL NOTIFICATION DEVICES WITH CANDELA RATINGS SIZED PER ANSI 117.1 AND NFPA 72.
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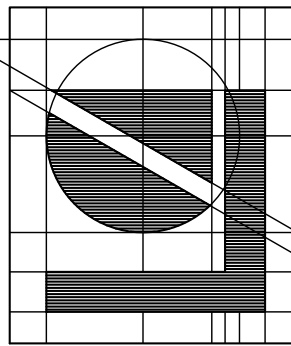


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**1 EF1.3 PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN**

SCALE: 1/8" = 1'-0"



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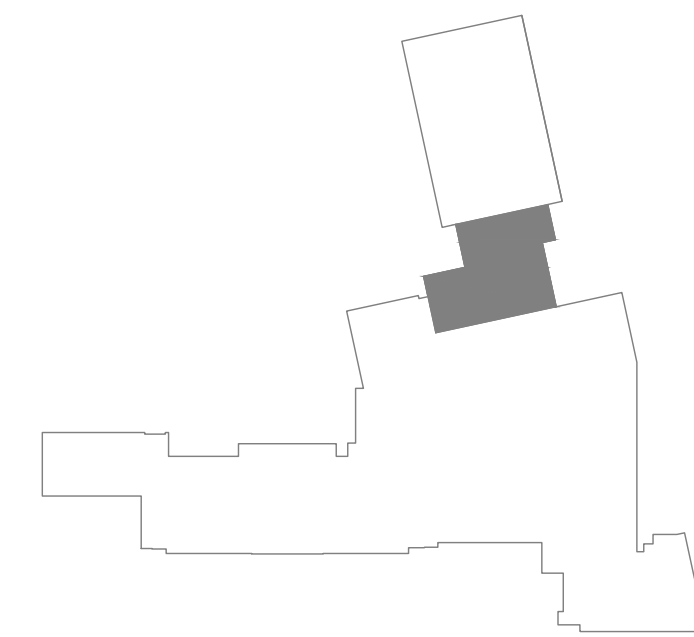
DR: D.P.  
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RENOVATIONS for:  
**BRIGHTON AREA SCHOOLS**  
(B.E.C.C. BLDG.) BRIGHTON, MICHIGAN  
PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN

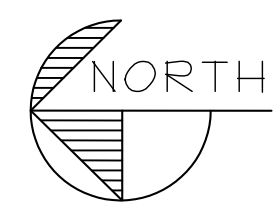
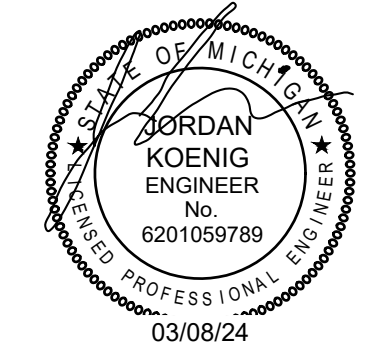
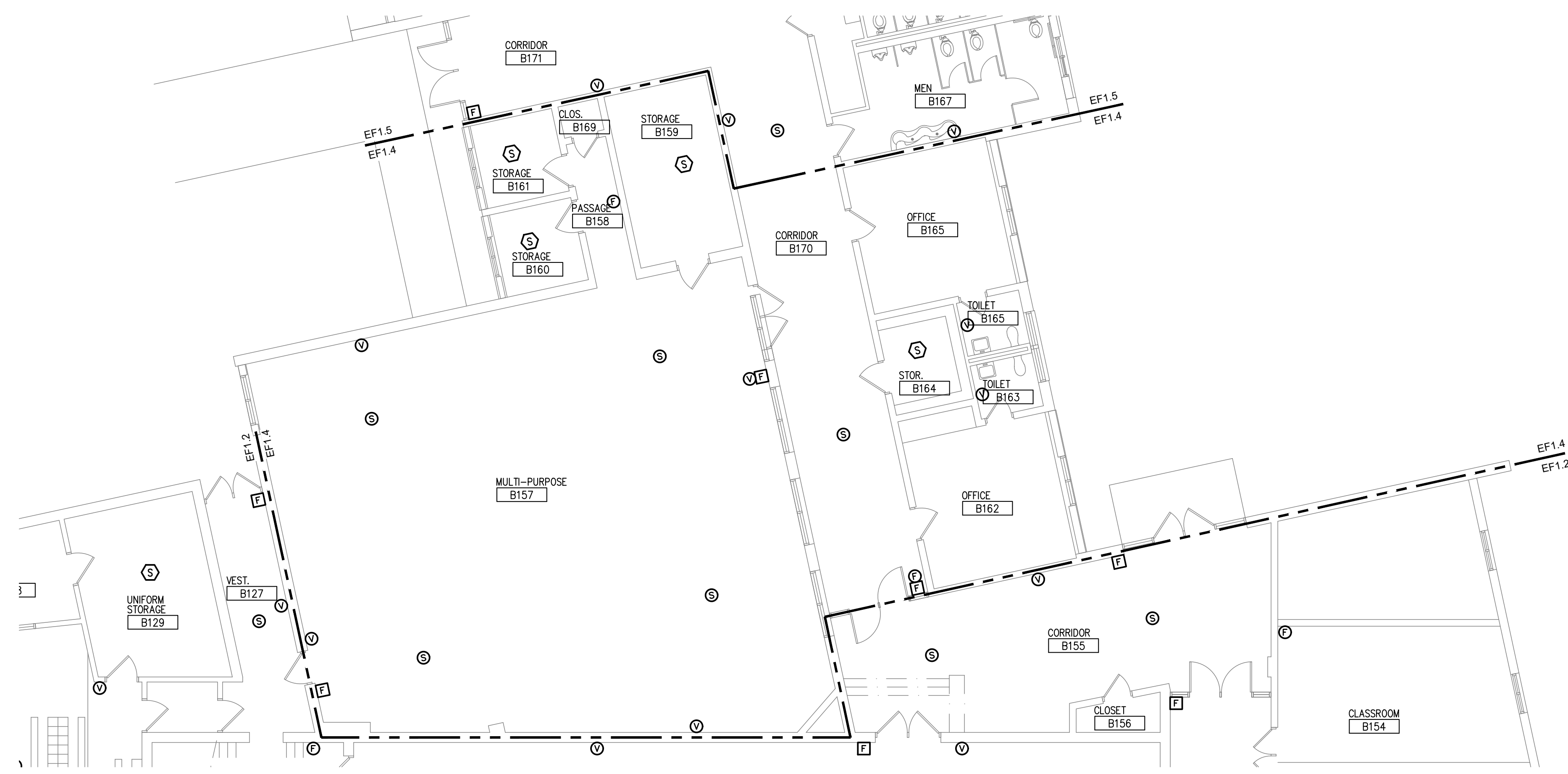
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23086



**1 EF1.4 KEY PLAN**

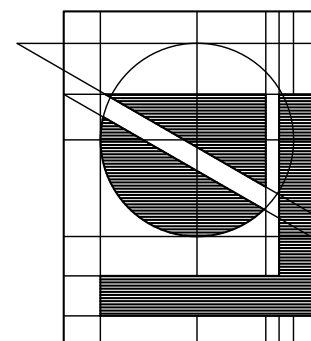
**BUILDING FIRE ALARM NOTES:**

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5. REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE ALARM DEVICES.
6. PROVIDE VISUAL NOTIFICATION DEVICES WITH CANDELA RATINGS SIZED PER ANSI 117.1 AND NFPA 72.
7. THE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL PROVIDE FULL INTELLIGIBILITY THROUGHOUT THE AREA.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NAC PANELS, ACCESSORIES, CIRCUITS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
9. ALL FIRE ALARM WIRING SHALL COMPLY WITH NFPA 70, ARTICLE 760.
10. COORDINATE PLACEMENT OF CEILING SPEAKERS WITH LIGHTING FIXTURE AND MECHANICAL GRILLES.



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SCALE: NONE



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734-454-5817  
MEEC JOB # 23-013

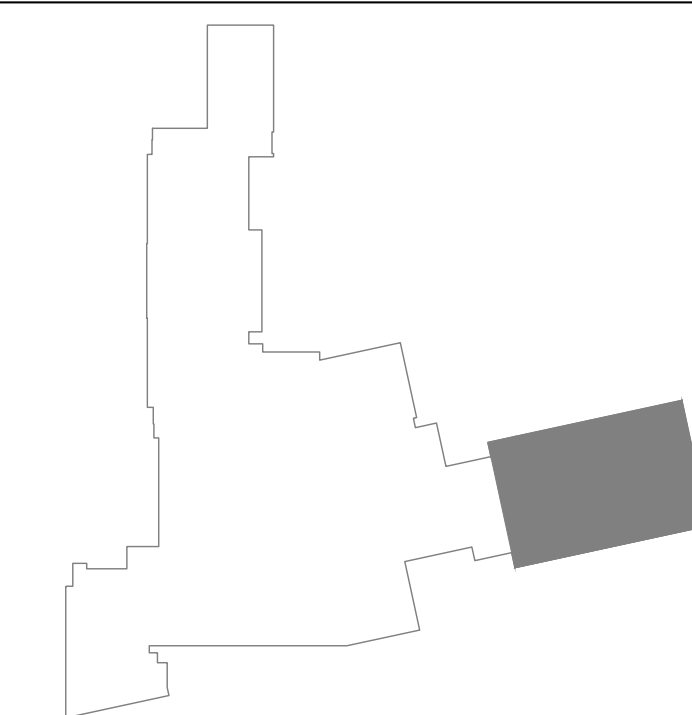
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CKD: J.E.  
APP'D: J.K.

03/08/2024  
date

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RENOVATIONS for:  
**BRIGHTON AREA SCHOOLS**  
(B.E.C.C. BLDG.) BRIGHTON, MICHIGAN  
PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN

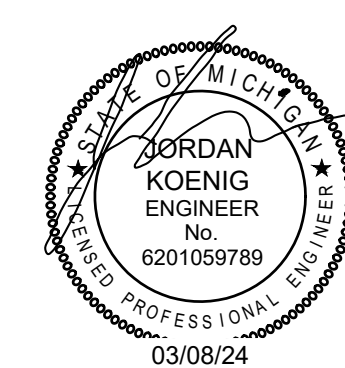
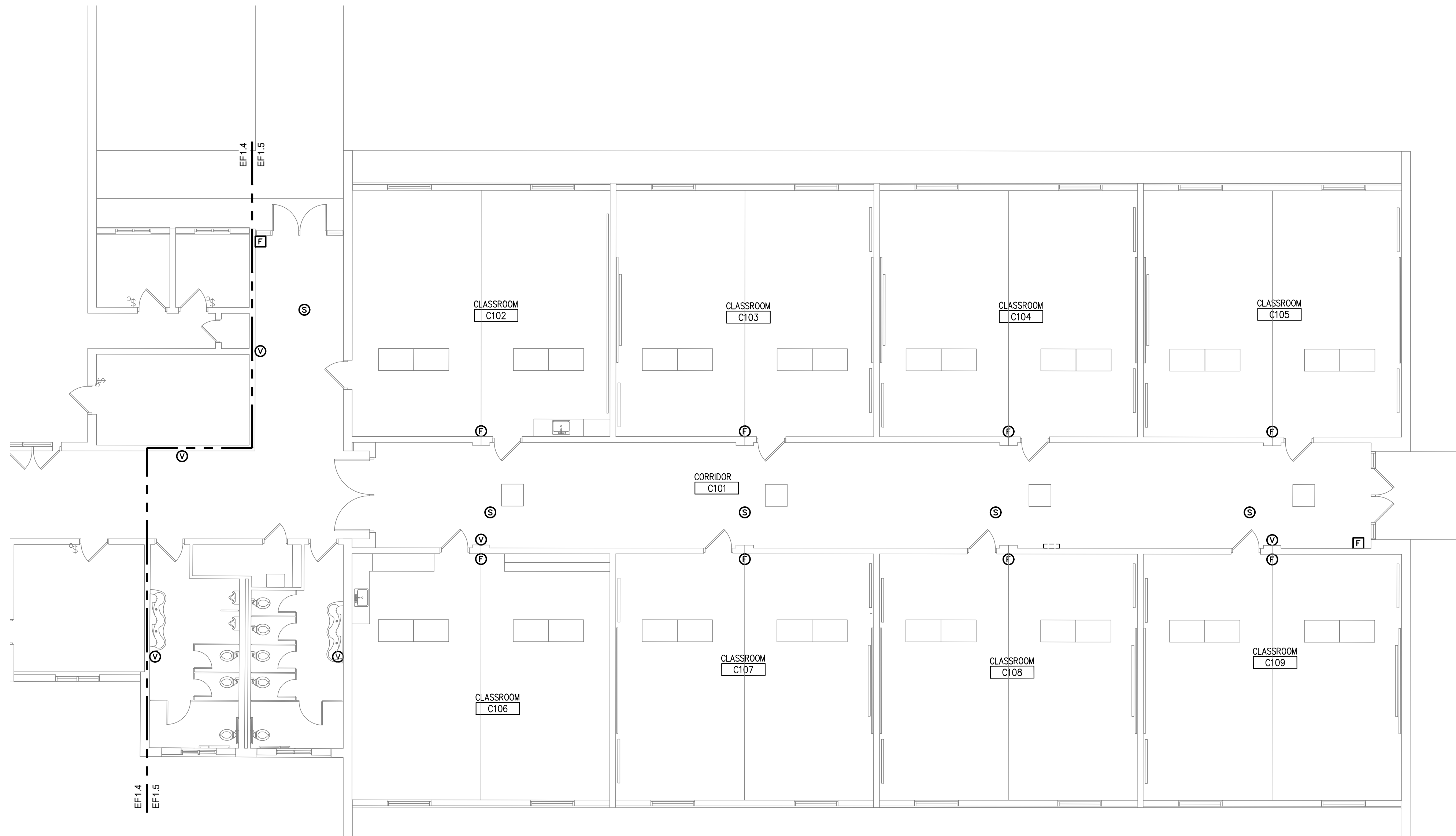
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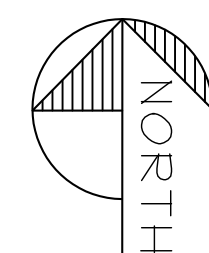
**1 EF1.5 KEY PLAN**

**BUILDING FIRE ALARM NOTES:**

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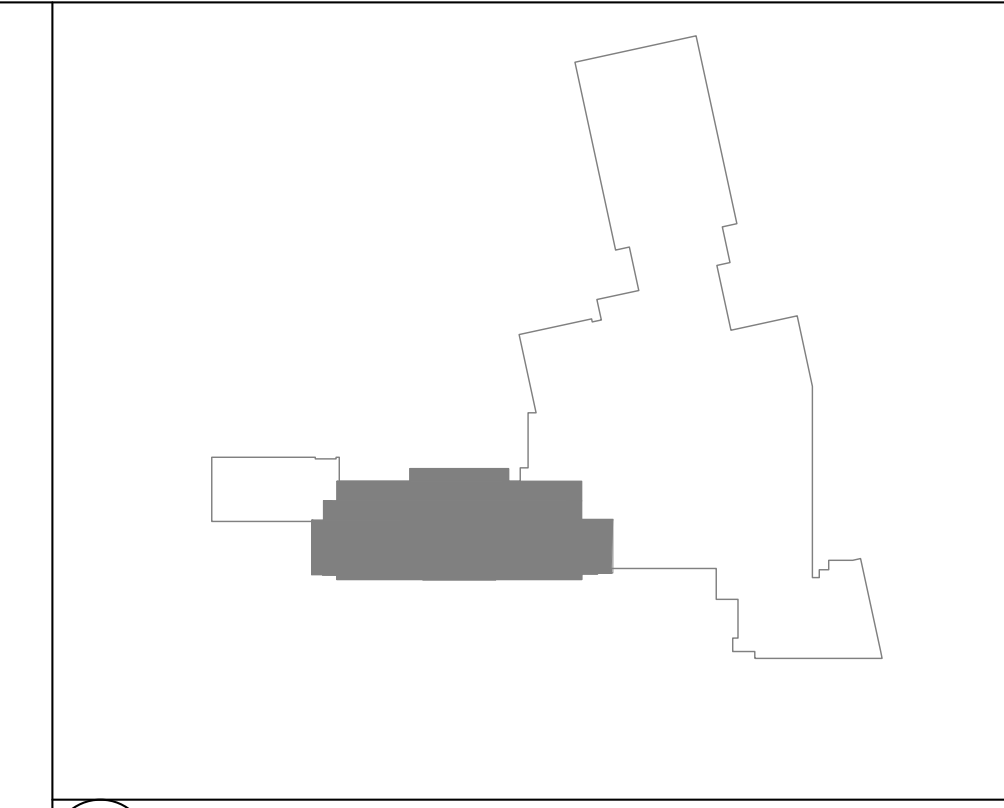


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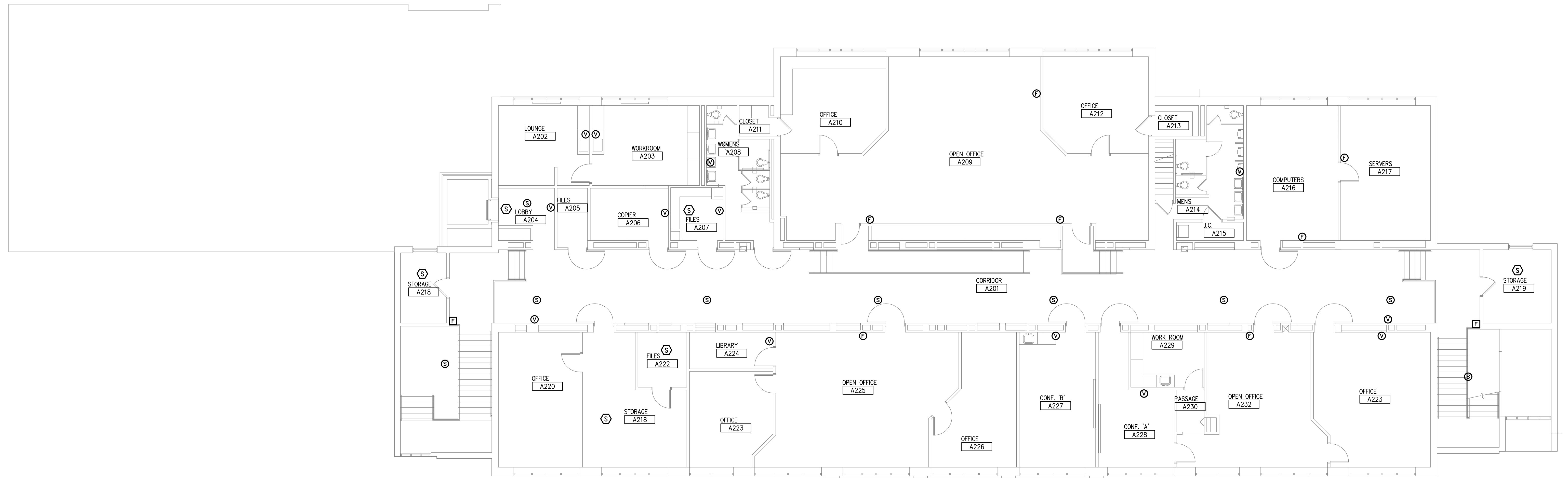
**1 EF1.5 PARTIAL FIRST FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN**

**BUILDING FIRE ALARM NOTES:**

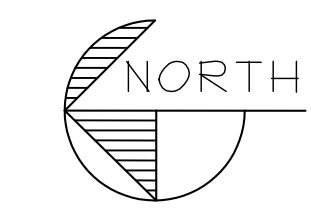
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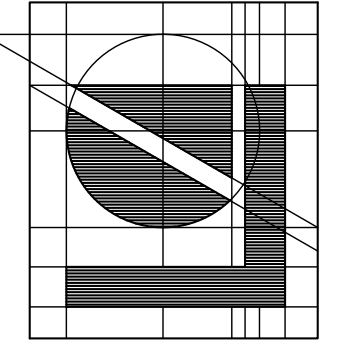
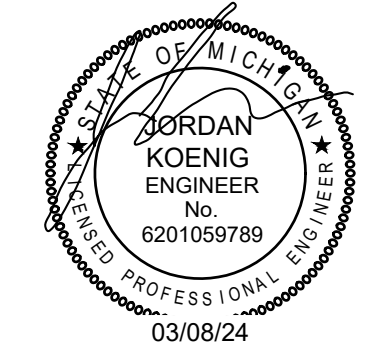
1 EF2.1 KEY PLAN



1 EF2.1 PARTIAL SECOND FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN



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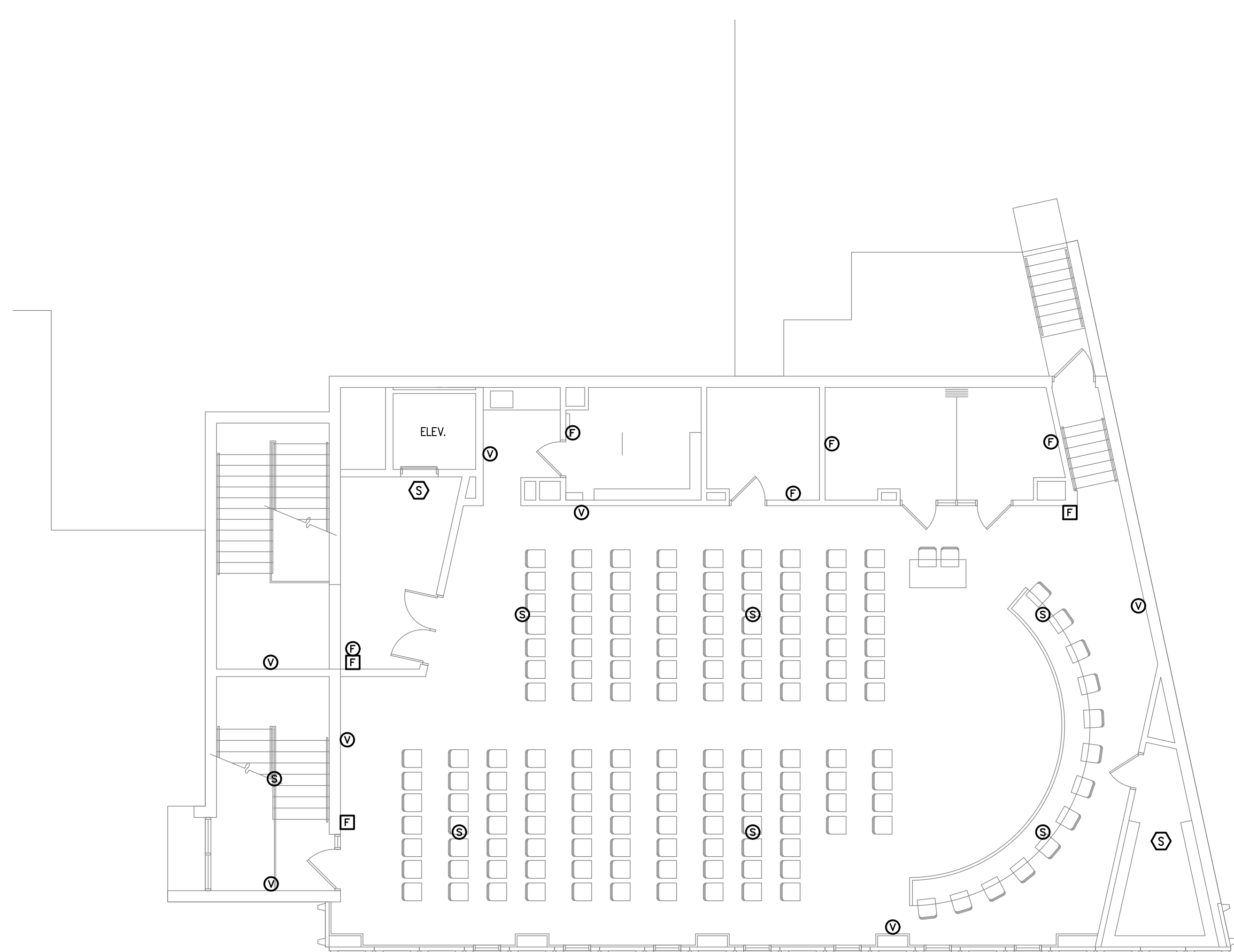
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PARTIAL SECOND FLOOR - FIRE ALARM SYSTEMS NEW WORK PLAN

EF2.1  
23086

SCALE: 1/8" = 1'-0"



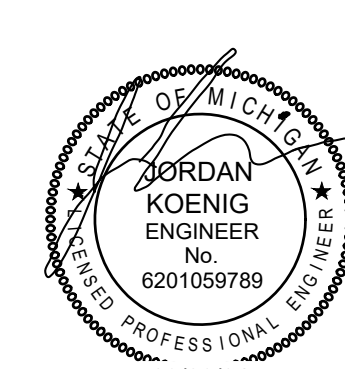


1 EF22 KEY PLAN

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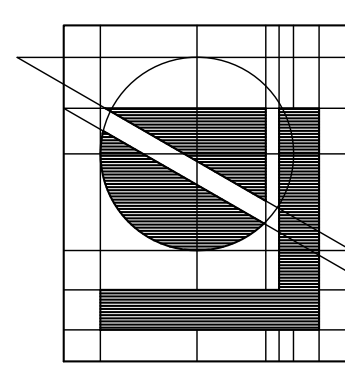
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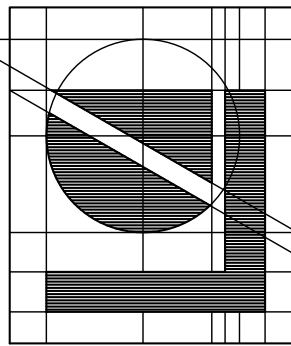
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**ELECTRICAL SPECIFICATIONS**

EF3.2  
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31. Cutting and Patching: Cutting and patching of walls, floors, ceilings, roof, etc. shall be done by architectural trades contractor but paid for by the electrical contractor. Structural members shall not be cut without obtaining written permission from the architect. Conduits passing through roofs or outside walls exposed to weather shall be carefully flashed. Fire-proofing of holes shall be provided and shall be of a UL listed material and approved by authority having jurisdiction (AHJ).
32. Inspection, Testing and Start-up:
  - A. The intent of the inspection, testing, and check-out work specified herein, or required, is to ensure that all electrical workmanship and equipment, whether owner furnished, or contractor furnished, is installed and performs in accordance with the design specifications, drawings, manufacturer's instructions and all applicable codes and requirements. Also, it is intended to provide, insure, or to determine the following:
    - 1) If the equipment or installation has been subjected to damage during shipment or installation.
    - 2) If the equipment is in accordance with the purchase orders and specifications.
    - 3) Provide initial acceptance tests and recorded data that can be used as a bench mark for future routine maintenance and trouble shooting by owner's maintenance forces.
    - 4) Insure a successful start-up with a minimum of last-minute interruptions and problems.
    - 5) Determine the suitability of the equipment and systems for energization and placing into operating service.
    - 6) Provide assurance that each system component is not only installed satisfactorily but performs, and will continue to perform, its function in the system with reasonable reliability throughout the life of the project.
  - B. Contractor Responsibility: The contractor shall provide all necessary labor, materials, tools, test instruments or other equipment or service and expenses required to inspect, test, adjust, set, calibrate, functionally and operationally check all work and components of the various electrical systems and circuitry.
33. Codes, Permits and Fees:
  - A. Obtain and pay for all permits, licenses, inspections, approvals and fees required and ensure that the entire electrical installation conforms to codes and regulations required by authority or agency having jurisdiction over the entire installation or construction of work included. All fees shall be included in the base proposal.
  - B. The electrical contractor shall, at his expense, have an inspection made by the local electrical inspection department of the complete electrical installation and shall deliver certificate of approval of the complete work to the owner before receiving his final payment.
  - C. Whenever the requirements of these specifications and drawings exceed the requirements of governing codes, laws, regulations and ordinances, these specifications and drawings shall govern.
  - D. Should any change in the drawings and specifications be required to conform to these codes, ordinances, laws or regulations, notify the architect-engineer at time of submitting proposal. After entering into a contract, contractor shall complete all work necessary to meet code, laws, regulations and ordinance requirements without extra expense to the owner.
34. Flashing: Where the work included requires conduit to pass through the roof or any other building element requiring waterproofing, the conduit shall be flashed under the specification section concerned, and the joint made waterproof in full conformance with waterproofing warranty requirements.
35. Supporting Devices
  - A. Codes and Standards
    - 1) Methods of installation shall comply with the provisions of applicable sections of the latest editions of the National Electrical Code, the State of Michigan Building Code, the State of Michigan Electrical Code, the International Building Code, and the ICC Electrical Code, as applicable to construction and installation of electrical supporting devices.
    - 2) Compliance: Comply with applicable MSS Standard Requirements, National Electrical Contractors Association's "Standard of installation", UL, and Federal Specification FF-S-760.
  - B. Provide supporting devices which comply with manufacturer's standard materials, design and construction in accordance with published product information, and as required for complete
36. Obstructions: Should any structural difficulties prevent setting of cabinets, running conductors, etc., at points shown on plans, the necessary minor deviations therefrom, as determined by the architect, may be permitted and must be made without additional cost.
37. Any item appearing on the drawings and not in the specification or vice versa, and any items appearing in neither but necessary to accomplish the intent of these specifications, shall be furnished by the electrical contractor.
38. Conductors:
  - A. All conductors shall be copper and shall be installed in conduit unless otherwise noted.
  - B. All feeders and branch circuit conductors shall be minimum size #12 a.w.g., 75 deg. C, insulated, type "XHHW", "THW" or "THWN" insulated.
  - C. No wiring smaller than no. 12 a.w.g. shall be used unless otherwise noted, and all wire no. 10 a.w.g. and larger shall be stranded, unless otherwise specified.
  - D. Conductors shall be color coded per the National Electrical Code.
39. Conduits:
  - A. All conduits shall be run concealed in finished areas unless otherwise noted. Exposing of any conduit in un-finished areas shall be only done with the written approval of the architect.
  - B. All conduit shall be 1/2" minimum size unless otherwise noted.
  - C. All conduits installed at exterior locations below grade shall be schedule 40 pvc.
  - D. A grounding conductor sized per article 250 of the N.E.C. shall be included with all circuit conductors.
40. Fuses: Fuses 0 to 600 ampere shall be current limiting dual-element type.
41. Outlet Boxes:
  - A. Outlets boxes shall be zinc-coated and shall be of the size and type to accommodate:
    - 1) Structural conditions
    - 2) Size and number of conductors and conduit entering.
    - 3) Devices or fixtures for which required.
    - 4) Outlet boxes shall be firmly anchored in place and shall be provided with approved fixture supports.
    - 5) Outlet boxes for switches, convenience outlets, etc., shall be set flush with finished walls.
    - 6) Outlet boxes shall be not less than 1-1/2 inches deep unless shallower boxes are required by structural conditions. Ceiling and bracket boxes shall be not less than 4 inch octagonal except that smaller boxes may be used where required by the particular fixture installed. Flush or recessed fixtures shall be provided with separate junction boxes when required by the fixture terminal requirements. Switch and receptacle boxes shall be approximately 4 inches.
42. Grounding
  - A. Furnish and install a complete grounding system in accordance with the National Electrical Code and local codes and ordinances.
  - B. Grounding path from circuits, equipment, and conductor enclosures shall be permanent and continuous; and shall have a resistance to ground of less than 5 ohm.
  - C. All cabinets, conduit systems, transformers, etc., shall be thoroughly grounded in accordance with the N.E.C. sections 250.24, 250.50, 250.52; and tables 250.66 and 250.122.
  - D. An insulated copper equipment grounding conductor sized in accordance with N.E.C. 250.122 shall be installed with all branch-circuit conductors.
  - E. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.
43. Fire and Smoke Barriers:
  - A. All conduit penetrations in fire-rated walls and floors and designated smoke barriers shall be sealed with an approved fire barrier material.
  - B. System shall pass fire test exposure per ASTM E-814 (UL 1479) and will provide a 3-hour fire rating.
  - C. Barrier shall consist of a 1/4 inch thick composite sheet. Bonded on one side shall be a layer of 28 gauge galvanized steel. The other side shall be reinforced with steel wire mesh and covered with aluminum foil. Sandwiched between shall be an organic/inorganic, fire resistive elastomeric sheet which when exposed to temperatures in excess of 250°F. (121°C), the sheet shall expand 8-10 times its original size forming a hard characteristic tightly sealing against spread of flame, gases and smoke.
  - D. Product:
    - 1) 3M fire barrier composite sheet CS-195.
    - 2) All seams and edges shall be sealed with 3M CP-25 fire barrier caulk or 303 putty.
  - E. Alternate Manufacturers:
    - 1) Subject to compliance with requirements, alternate manufacturers offering similar products may be incorporated in the work.
44. Electrical Identification:
  - A. Materials and methods of installation shall comply with the provisions of applicable sections of latest editions of the National Electrical Code, the State of Michigan Building Code, the National Electrical Code and the ICC Electrical Code as applicable to installation of identifying labels and markers for wiring and equipment.
  - B. Comply with applicable requirements of UL Std 969, "Marking and Labeling Systems", pertaining to electrical identification systems.
  - C. Comply with applicable requirements of NEMA Std no's WC-1 and WC-2 pertaining to electrical identification systems.
  - D. Lettering and Graphics:
    - 1) Coordinate names, abbreviations and other designations used in electrical identification work, with corresponding designations shown, specified or scheduled. Provide numbers, lettering and wording as indicated or, if not otherwise indicated, as recommended by manufacturer or as required for proper identification and operation/maintenance of electrical systems and equipment. Comply with ANSI A13.1 pertaining to minimum sizes for letters and numbers.
  - E. Conduit Identification:
    - 1) Where electrical conduit is exposed in spaces with exposed mechanical piping which is identified by a color-coded method, apply color-coded identification on electrical conduit in a manner similar to piping identification. Except as otherwise indicated, use white as coded color for conduit.
45. Shop Drawings and Submittals:
 

Electrical contractor shall submit equipment shop drawings to the architect for review prior to installation of lighting fixtures, lighting control devices and wiring devices.
46. Guarantee:
 

Electrical contractor shall guarantee all work installed by his workmen under this contract to be free from all defective workmanship and materials for a period of one year after the acceptance of the building by the owner, and should defects occur within this period, repair and/or replace defective items, at no expense to the owner.
47. Cleaning:
 

Upon completion of the project, all enclosures shall be left free of refuse and the exterior free of dirt and paint splatters.
48. Demolition work:
  - A. The existing building is being modified to suite the new requirements. during the new work. Maintain circuits supplying existing equipment and apartments during the new work. All such work shall be as scheduled by the general contractor to ensure proper coordination of trades while construction is being done.
  - B. It shall be the responsibility of the contractor to visit the project site to correctly ascertain the scope of services and to include all pertinent costs in his bid. No extras will be allowed.
  - C. All electrical work interfering with and requiring modification for the new requirements shall be relocated as directed by building management personnel and reinstalled and rewired as necessary to the satisfaction of the building management.
  - D. Abandoned and inactive conduits, wire, devices, equipment, etc., shall be removed in their entirety. In addition to these items, this contractor shall remove all items as indicated on the plans, or as required to clean up the entire area of unused, abandoned, or inactive materials. Conduit and wiring feeding devices and equipment to be removed shall also be removed up to the next active pullbox, junction box, or panelboard.
  - E. All equipment and wiring not in renovation areas but affected by work in renovation areas shall be reconnected as required for a complete working system.
  - F. Hangers, messenger cable, brackets, etc, supporting items to be removed shall also be unfastened and removed. Open holes in ducts, boxes, panelboards, and knockouts shall be closed with suitable snap plugs or filler plates.
  - G. The contractor shall remove and deliver to a place designated by the owner all existing electrical equipment no longer intended for use. This equipment remains the property of the owner.
  - H. Any equipment, devices, materials, etc., the owner elects not to retain shall be legally disposed of by the contractor off the owner's premises.
  - I. At completion of all electrical work, update circuit directories in panels affected by new work with new type written circuit descriptions. Circuit directories shall be mounted on inside of front panel cover in a clear plastic enclosure.



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SCALE: NONE