

### **ADDENDUM #3**

#### **Rye City School District**

##### **Osborn Elementary School**

10 Osborn Road  
Rye, NY 10580

**SED Number: #66-18-00-01-0-001-022 & #66-18-00-01-0-001-023**

##### **Midland Elementary School**

312 Midland Avenue  
Rye, NY 10580

**SED Number: #66-18-00-01-0-003-024 & #66-18-00-01-0-003-025**

##### **Milton Elementary School**

10 Hewlett St  
Rye, NY 10580

**SED Number: #66-18-00-01-0-002-015**

##### **Rye High School/Middle School**

1 Parsons Street  
Rye, NY 10580

**SED Number: #66-18-00-01-0-005-031 & #66-18-00-01-0-005-032**

***Issued: 2021-02-11***

#### **PROJECT TEAM**

##### Architects

###### **Geddis Architects**

71 Old Post Road, Suite 101  
P.O. Box 1020  
Southport, CT 06890  
Phone: (203) 256-8700

###### **Fielding International**

259 Water Street, Suite 1L  
Warren, RI 02885  
Phone: (401) 289-2789

##### Construction Manager

###### **Savin Engineers, PC**

3 Campus Drive  
Pleasantville, NY 10570  
Phone: (914) 769-3200

##### Structural Engineer

###### **Odeh Engineers**

1223 Mineral Spring Ave  
North Providence, RI 02904  
Phone: (401) 724-1771

##### Civil Engineer

###### **Weston & Sampson, PE, LS, LA, PC**

1 Winners Circle, Suite 130  
Albany, NY 12205  
Phone: (516) 463-4400

##### MEP Engineer

###### **Barile Gallagher & Associates**

###### **Consulting Engineers**

39 Marble Avenue, 2nd Floor  
Pleasantville, NY 10570  
Phone: (914) 328-6060

##### Acoustic Consultant

###### **DP Design**

12 Cold Spring Street  
Providence, RI  
401-861-3218

##### AV Consultant

###### **CAVANAUGH TOCCI**

327 F Boston Post Road  
Sudbury, MA 01776  
978-443-7871

##### Environmental

###### **Quest Environmental Solutions & Technologies, Inc.**

1376 Route 9  
Wappingers Falls, NY 12590  
845-298-6031

**This Addendum No. 3 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.**

The work shall be carried out in accordance with the following supplemental instructions and in accordance with the Contract Documents.

**DRAWINGS:**

**OSBORN:**

1. AVE2-001
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
2. AVE2-102
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
3. AVE2-112
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
4. AVE2-202
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

**Electrical**

1. E2 – 302      PART FIRST FLOOR POWER PLAN:  
  
PARTIAL FIRST FLOOR POWER PLAN 1/E2-302. See attachment.
  - a. At the main entrance, provide Junction box for Airphone and Card Reader. Provide ¾" Conduit from junction with drag wire for junction box to the ceiling.
  - b. Provide Wiremold 7000 in Security Office.
  - c. Mount smoke detector in security lobby inside the skylight.

**MIDLAND:**

1. A2-508:
  - a. Fixtures in Music #20 previously marked incorrectly as P11 have been correctly tagged as P4.
2. A2-510:
  - a. Fixtures Small Group Instruction #14 previously marked incorrectly as P11 have been correctly tagged as P4.
3. AVE2-001
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
4. AVE2-102
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

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5. AVE2-112
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
6. AVE2-201
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

## HVAC

1. Drawing H2-302      SCHEDULE: (Clarification only, drawing not provided)

### Schedule of Unit Ventilators.

- a. Change the following notes within schedule:

Schedule No. 3 - Omit the reference to "Factory Louvers 36" x 36".  
Add "Insulated stainless steel drain pan, factory installed DDC ready controls package. Contractor to field install additional controllers and control valves."

Schedule No. 5 - Omit reference to "PSC" Motor. Replace with "EMC".

Schedule No. 6 - Omit the reference to "Premium".

Schedule No. 13 - Add: "Kits shall be Factory installed."

2. Drawing H2-403      DETAILS: (Clarification only, drawing not provided)

### Detail 1/H403, Vertical Unit Ventilator Detail

- a. The note "Fresh Air and Exhaust Louvers by HVAC" shall be changed to read "...by general contractor".

## Electrical

1. Drawing E2-104 GREY BOX ELECTRICAL REMOVALS, LIGHTING, POWER AND FIRE ALARM PLAN:

FIRST FLOOR PARTIAL PLAN 3/E2-104. See attachment.

- a. Revise all "P3" fixtures to be fixture type "P9-W".

2. Drawing E2-201 PARTIAL FIRST FLOOR LIGHTING PLAN:

PARTIAL FIRST FLOOR PLAN 1/E2-201 See attachment.

- a. In Small instruction Room 12, revised all "P11" fixtures to be "P4".

3. Drawing E2-202 PARTIAL FIRST FLOOR LIGHTING PLAN:

PARTIAL FIRST FLOOR PLAN 1/E2-202 See attachment.

- a. In Music Room 20, revised all "P11" fixtures to be "P4".

4. Drawing E2-203 PARTIAL FIRST FLOOR LIGHTING PLAN:

PARTIAL FIRST FLOOR PLAN 1/E2-203 See attachment.

- a. In Nurse's Office 22, revised "R8" fixtures to be "R4".

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5. Drawing E2-302 PARTIAL FIRST FLOOR POWER AND FIRE ALARM PLAN:

PARTIAL FIRST FLOOR PLAN 1/E2-302 See attachment.

- a. At the main entrance, provide Junction box for Airphone and Card Reader. Provide ¾" Conduit from junction with drag wire for junction box to the ceiling.

LISTENING LOOP IN LIBRARY 2/E2-302 See attachment.

- a. Replace junction box with a quad receptacle.
- b. Provide Data Drop.

6. Drawing E2-303 PARTIAL FIRST FLOOR POWER AND FIRE ALARM PLAN:

PARTIAL FIRST FLOOR PLAN 1/E2-303 See attachment.

- a. At the main entrance, provide Junction box for Airphone and Card Reader. Provide ¾" Conduit from junction with drag wire for junction box to the ceiling.
- b. Provide Wiremold 7000 in Security Office.

**MILTON:**

1. A2-322A:

- a. Detail 3 revised to more clearly show air space below.

2. A2-323A:

- a. Detail 5 eliminated, as it is redundant. Kiva Section C revised. Kiva Section D and Kiva Section E added for clarification. Sheet re-arranged and re-numbered.

3. AVE2-001

- a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

4. AVE2-101

- a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

5. AVE2-111

- a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

6. AVE2-201

- a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.

**HVAC**

1. Drawing H2 – 101 LEGEND, NOTES, FIRST AND GROUND FLOOR PLAN: (Clarification only, drawing not provided)

Ground Floor Plan 1/H2-101.

- a. Add note: "Remove and properly dispose of 3700 gallons of oil from existing 5000 gallon oil tank. See spec 23 01 00 for more information."

## Electrical

### 1. Drawing E2 – 301 NEW ELECTRICAL POWER AND FIRE ALARM PLAN:

PARTIAL GROUND FLOOR PLAN 1/E2-301. See attachment.

- a. At the main entrance, provide Junction box for Airphone and Card Reader. Provide ¾" Conduit from junction with drag wire for junction box to the ceiling.
- b. Provide Wiremold 7000 in Security Office.

LISTENING LOOP IN LIBRARY 5/E2-301. See attachment.

- a. Provide quad and data drop form listening loop.

## **HIGH SCHOOL & MIDDLE SCHOOL:**

### 1. T2-001:

- a. Bid projects legend altered to add Alternate 2A: Telecoil Loop in Middle School iLab and Alternate 3A: Telecoil Loop in 3rd Floor Learning Community.

### 2. HSMS-ASB-102

- a. Add Removal identification number 9, with associated note. Changes are bubbled on drawing.

### 3. HSMS-ASB-104

- a. Change Note associated with removal identification number 6. Changes are bubbled on drawing.

### 4. A2-321:

- a. Plan detail of HS Entry transaction counter added; Detail 1/A2-321 updated to remove built-in security desk.

### 5. A2-322:

- a. Dimensions on details 4 and 6 updated to remove 1/8" discrepancy.

### 6. A2-401:

- a. Fixtures in Nurse #118 previously marked incorrectly as P3 have been correctly tagged as P2.

### 7. A2-511:

- a. Callouts added to floor plan to reference new door jamb trim detail on sheet A2-512, Callout added to floor plan to reference new transaction counter plan detail on sheet A2-321.

### 8. A2-512:

- a. Door Jamb trim detail 7/a2-512 added.

### 9. A2-516:

- a. Note added to clarify coordination with owner's casework contractor.

### 10. A2-517:

- a. Drawing updated to move Telecoil loop to alternate.

### 11. A2-517A:

- a. Drawing added as alternate

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12. A2-522:
  - a. Note added to clarify coordination with owner's casework contractor.
13. A2-523:
  - a. Drawing updated to move Telecoil loop to alternate.
14. A2-523A:
  - a. Drawing added as alternate.
15. A2-924:
  - a. Project numbers corrected to show both Project 2 and Project 3 on sheet.
16. AVE2-001
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
17. AVE2-101
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
18. AVE2-102
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
19. AVE2-111
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
20. AVE2-112
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
21. AVE2-201
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
  - b. Telecoil loop moved to alternate. Project numbers updated to reflect this change.
22. AVE2-202
  - a. Notes have been added to these drawings to clarify the scope of work between EC and Owner's AV vendor.
  - b. Telecoil loop moved to alternate. Project numbers updated to reflect this change.

## HVAC

1. Drawing H2 – 302 Schedules
  - a. Revised Schedule of Unit Ventilators Note #4 to include field installed DDC controllers.
2. Drawing H2 – 403 Details
  - a. Revised Details #3, 4 & 5 to indicate louvers and lintels are provided and installed by General Contractor and roof curbs and equipment support curb rails are provided by HVAC contractor and installed by General Contractor.

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## Electrical

1. Drawing E2 – 201 HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN

PARTIAL FIRST FLOOR PLAN 1/E2-201. See attachment.

- a. Revise all “R3” fixture in the Nurses Office to “R2” Fixture.

2. Drawing E2 – 206 HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR LIGHTING PLAN

PARTIAL FIRST FLOOR PLAN 1/E2-206. See attachment.

- a. Provide power and controls of “WM2” and “R8” in the learning Commons.
- b. Delete pendent mounted fixture in Elevator lobby.

3. Drawing E2 – 301 HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER AND FIRE ALARM PLAN

PARTIAL FIRST FLOOR PLAN 1/E2-301. See attachment.

- a. At the main entrance, provide Junction box for Airphone and Card Reader. Provide  $\frac{3}{4}$ ” Conduit from junction with drag wire for junction box to crawl space below.
- b. Provide Wiremold 7000 in Security Office and areas as shown.

4. Drawing E2 – 303 HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER AND FIRE ALARM PLAN

PARTIAL FIRST FLOOR PLAN 1/E2-303. See attachment.

- a. At the main entrance, provide Junction box for Airphone and Card Reader. Provide  $\frac{3}{4}$ ” Conduit from junction with drag wire for junction box to the ceiling.
- b. Provide Wiremold 7000 in Security Office.

5. Drawing E2 – 304 HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER AND FIRE ALARM PLAN

Partial First floor Power Plan 1/E2-304. See attachment.

- a. Floor Chopping update for the floor boxes in I Lab.

LISTENING LOOP IN ILAB 2/E2-304. See attachment.

- a. All work related to the Telecoil Loop shall be “Project 2A.”
- b. Provide data drop for Telecoil Loop Headend.

6. Drawing E2 – 309 HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR AND BASEMENT POWER AND FIRE ALARM PLAN

LISTENING LOOP IN THIRD FLOOR 3/E2-309. See attachment.

- a. All work related to the Telecoil Loop shall be “Project 3A.”
- b. Provide data drop for Telecoil Loop Headend.

7. Drawing E2 – 502 HIGH SCHOOL & MIDDLE SCHOOL FA AND PA RISER

HIGH SCHOOL PARTIAL PUBLIC ADDRESS RISER DIAGRAM 2/E2-502. See attachment.

- a. All wiring to new devices shall be new.

MIDDLE SCHOOL PARTIAL PUBLIC ADDRESS RISER DIAGRAM 3/E2-502.

See attachment.

- a. All wiring to new devices shall be new.

8. Drawing E2 – 601 HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL SCHEDULE

- a. Addition of Driver Fixture Schedule. See attachment.

**SPECIFICATIONS:**

**VOLUME 1:**

**1. Bid Form Section 000310d-GC (Revised Section Provided)**

- a. See revised Interior & Exterior Renovation Bid Form for High School/Middle School attached.

**2. Section 012300.1 – Alternates (Additions listed below)**

- a. Add Subparagraph 1.04.D.3 as follows:

3.Project 2

- a) Alternate A – Middle School I-Lab; Telecoil Hearing Loop (copper wire install)  
GC: Coordinate with EC to accommodate telecoil hearing loop install within Middle School I-Lab renovation project. See drawing sheet **A2-523A**.  
EC: Saw cut floor slab and install copper wire for telecoil hearing loop. Head end equipment to be by Owner. Scope shown on drawing sheet **AVE2-201**.  
Refer to **E2-304** for electrical scope of work. Refer to **AVE2-201** for AV scope of work.

- b. Add Subparagraph 1.04.D.4 as follows:

4.Project 3

- a) Alternate A – 3<sup>rd</sup> Floor Learning Commons; Telecoil Hearing Loop (copper wire install)  
GC: Coordinate with EC to accommodate telecoil hearing loop install within 3<sup>rd</sup> floor learning commons renovation project. See drawing sheet **A2-517A**.  
EC: Saw cut floor slab and install copper wire for telecoil hearing loop. Head end equipment to be by Owner. Scope shown on drawing sheet **AVE2-202**.  
Refer to **E2-309** for electrical scope of work. Refer to **AVE2-202** for AV scope of work.

**(NOTE: Bidders are advised that Section 012300.2 – Alternates Attachment will be revised in the last Addendum, to be used for submitting with bids.)**

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## **VOLUME 2: OSBORN ELEMENTARY SCHOOL**

- 1. 000001 Table of Contents (Revised Section Provided)**
  - a. Section 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS issue date updated.
  - b. Section 084114.2 GLAZED ALUMINUM CURTAIN WALLS **changed to 084114.1** and issue date updated.
  - c. New Section 085113 – ALUMINUM WINDOWS - EXTERIOR issued.
- 2. 084113 Aluminum-Framed Entrances and Storefronts (Revised Section Provided)**
  - a. **In Section 1.06 Warranty**
    - i. **Add B1.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
  - b. **In Section 2.06 Finishes and Colors**
    - i. **Add A3.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- 3. 084114.1 Glazed Aluminum Curtain Walls (Revised Section Provided)**
  - a. **In Section 1.06 Warranty**
    - i. **Add B1.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
  - b. **In Section 2.06 Finishes and Colors**
    - i. **Add A3.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- 4. 085113 Aluminum Windows - Exterior (New Section Provided)**
  - a. New specifications section provided for exterior windows.
- 5. 220130 WATER SUPPLY SYSTEM (Addition listed below)**
  - a. Add the following:  
"2.1 G Crimped fittings equal to Pro-Press will be acceptable."
- 6. 230410 PIPING, FITTINGS, VALVES, NOTES AND SPECIALITIES (Additions listed below)**
  - a. Add the following:  
"2.3 B #10 Mechanical coupling for joining grooved carbon steel pipe equal to Victaulic ASTM F-1476 will be acceptable where field conditions permit."
  - b. Add the following:  
"2.3 B #11 Crimped fittings equal to Pro-Press will be acceptable for copper pipe 2 ½ " or less."
- 7. 230265 VRF OUTDOOR UNITS (Addition listed below)**
  - a. Add to note 2 of item 2.2 from Addendum 1 "when installed outdoors provide NEMA weatherproof enclosure."

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### **VOLUME 3: MIDLAND ELEMENTARY SCHOOL**

- 1. 000001 Table of Contents (Revised Section Provided)**
  - a. Section 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS issue date updated.
  - b. Section 084114.1 GLAZED ALUMINUM CURTAIN WALLS issue date updated.
  - c. New Section 085113 – ALUMINUM WINDOWS - EXTERIOR issued.
- 2. 084113 Aluminum-Framed Entrances and Storefronts (Revised Section Provided)**
  - a. **In Section 1.06 Warranty**
    - i. **Add B1.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
  - b. **In Section 2.06 Finishes and Colors**
    - i. **Add A3.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- 3. 084114.1 Glazed Aluminum Curtain Walls (Revised Section Provided)**
  - a. **In Section 1.06 Warranty**
    - i. **Add B1.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
  - b. **In Section 2.06 Finishes and Colors**
    - ii. **Add A3.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- 4. 085113 Aluminum Windows - Exterior (New Section Provided)**
  - a. New specifications section provided for exterior windows.
- 5. 220130 WATER SUPPLY SYSTEM (Addition listed below)**
  - a. Add the following:  
"2.1 G Crimped fittings equal to Pro-Press will be acceptable."
- 6. 230410 PIPING, FITTINGS, VALVES, NOTES AND SPECIALITIES (New Section Provided)**
  - a. The specification section shall be replaced with revised Section 230410 PIPING, FITTINGS, VALVES AND NOTES (HOT WATER) see attachment.
- 7. 230265 VRF OUTDOOR UNITS (Addition listed below)**
  - a. Add to note 2 of item 2.2 from Addendum 1 "when installed outdoors provide NEMA weatherproof enclosure."

## **VOLUME 4: MILTON ELEMENTARY SCHOOL**

- 1. 000001 Table of Contents (Revised Section Provided)**
  - a. Section 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS issue date updated.
  - b. Section 084114.2 GLAZED ALUMINUM CURTAIN WALLS **changed to 084114.1** and issue date updated.
- 2. 084113 Aluminum-Framed Entrances and Storefronts (Revised Section Provided)**
  - a. **In Section 1.06 Warranty**
    - i. **Add B1.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
  - b. **In Section 2.06 Finishes and Colors**
    - i. **Add A3.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- 3. 084114.1 Glazed Aluminum Curtain Walls (Revised Section Provided)**
  - a. **In Section 1.06 Warranty**
    - i. **Add B1.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
  - b. **In Section 2.06 Finishes and Colors**
    - ii. **Add A3.** Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- 4. 220130 WATER SUPPLY SYSTEM (Addition listed below)**
  - a. Add the following:  
"2.1 G Crimped fittings equal to Pro-Press will be acceptable."
- 5. 230410 PIPING, FITTINGS, VALVES, NOTES AND SPECIALITIES (Additions listed below)**
  - a. Add the following:  
"2.3 B #10 Mechanical coupling for joining grooved carbon steel pipe equal to Victaulic ASTM F-1476 will be acceptable where field conditions permit."
  - b. Add the following:  
"2.3 B #11 Crimped fittings equal to Pro-Press will be acceptable for copper pipe 2 ½ " or less."
- 6. 230265 VRF OUTDOOR UNITS (Addition listed below)**
  - a. Add to note 2 of item 2.2 from Addendum 1 "when installed outdoors provide NEMA weatherproof enclosure."

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## **VOLUME 5 – RYE HIGH SCHOOL/MIDDLE SCHOOL**

### **1. 000001 Table of Contents (Revised Section Provided)**

- a. Section 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS issue date updated.
- b. Section 084114.1 GLAZED ALUMINUM CURTAIN WALLS issue date updated.
- c. New Section 085113 – ALUMINUM WINDOWS - EXTERIOR issued.

### **2. 020800 Asbestos Abatement (Revised Section Provided)**

- a. Section 3.17
  - i. In “HIGH SCHOOL/MIDDLE SCHOOL (INTERIOR ABATEMENTS),” **Add** bullet 8 stating the following:  
Abatement Contractor is responsible for complete & total removal and disposal of approximately 100 SF of ceiling tiles with associated non-friable asbestos containing glue dabs on non-acm plaster ceiling in the second-floor hallway to facilitate demolition for electrical conduit runs, as described on attached ACM Location Drawing(s). Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all labor and equipment necessary to access material(s). All removals must be coordinated with general contractor and electrical contractor. Refer to drawings D2-102 and E2-311 for demo plans and proposed conduit runs.
  - ii. In “HIGH SCHOOL/MIDDLE SCHOOL (EXTERIOR ABATEMENTS),” **Change** bullet 2 to state the following:  
Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 LF of non-friable asbestos-containing caulk from two (2) windows outside of the 3rd floor stairwell, as described on attached ACM location drawings.  
Windows are to be accessed from the roof locations identified for asbestos abatement. Abatement contractor is responsible for all demolition required to access material(s) as well as for providing all labor and equipment necessary to access material(s). Abatement contractor is responsible for re-caulking all removal locations following third-party monitor final visual inspection.

### **3. 084113 Aluminum-Framed Entrances and Storefronts (Revised Section Provided)**

- a. **In Section 1.06 Warranty**
  - i. **Add B1.** Warranty Period: Manufacturer’s 20 year warranty commencing on the substantial date of completion for the project.
- b. **In Section 2.06 Finishes and Colors**
  - i. **Add A3.** Warranty Period: Manufacturer’s 20 year warranty commencing on the substantial date of completion for the project.

### **4. 084114.1 Glazed Aluminum Curtain Walls (Revised Section Provided)**

- c. **In Section 1.06 Warranty**
  - iii. **Add B1.** Warranty Period: Manufacturer’s 20 year warranty commencing on the substantial date of completion for the project.
- d. **In Section 2.06 Finishes and Colors**
  - iv. **Add A3.** Warranty Period: Manufacturer’s 20 year warranty commencing on the substantial date of completion for the project.

### **5. 085113 Aluminum Windows - Exterior (New Section Provided)**

- a. New specifications section provided for exterior windows.

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**6. 220130 WATER SUPPLY SYSTEM (Addition listed below)**

- a. Add the following:  
"2.1 G Crimped fittings equal to Pro-Press will be acceptable."

**7. 230410 PIPING, FITTINGS, VALVES, NOTES AND SPECIALITIES (Additions listed below)**

- a. Add the following:  
"2.3 B #10 Mechanical coupling for joining grooved carbon steel pipe equal to Victaulic ASTM F-1476 will be acceptable where field conditions permit."
- b. Add the following:  
"2.3 B #11 Crimped fittings equal to Pro-Press will be acceptable for copper pipe 2 ½ " or less."

**8. 230265 VRF OUTDOOR UNITS (Addition listed below)**

- a. Add to note 2 of item 2.2 from Addendum 1 "when installed outdoors provide NEMA weatherproof enclosure."

**CLARIFICATIONS:**

**1. Regarding Project 4 Roofing scope at Osborn, Midland and the High/Middle School, and Project 4 Masonry Restoration scope at the Middle School, please note the following:**

**1. At Osborn:**

- The GC bid price for Project 4 Roofing is for complete removal and replacement of roofing materials per Contract Documents in Roof Areas B1, D & I, and removal and replacement of gym skylights on Roof I. In the event that Project 4 is not accepted, the GC is still responsible for installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, and roof flashings as required to facilitate installation of mechanical equipment by others at all roof areas.
- Accordingly, the GC bid price for Project 1 should include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, and roof flashings as required to facilitate installation of mechanical equipment by others for all mechanical equipment serving spaces in the Project 1 scope (all spaces except the new Library and Support Services Suite).
- In the same manner, the GC bid price for Project 2 should include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, and roof flashings as required to facilitate installation of mechanical equipment by others for all mechanical equipment serving spaces in the Project 2 scope, which is the new Library and Support Services Suite.
- It follows that the MC, PC and EC bid prices for Projects 1 & 2 will include (but are not limited to) necessary work for mechanical, electrical & plumbing equipment that service the spaces included within the respective Project 1 & 2 spaces, and that the MC, PC and EC bid prices for Project 4 Roofing may accordingly be minimal, or zero.

**2. At Midland:**

- The GC bid price for Project 4 Roofing is for complete removal and replacement of roofing materials per Contract Documents in Roof Area D. In the event that Project 4 is not accepted, the GC is still responsible for installation of

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curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, including steel dunnage, and roof flashings as required to facilitate installation of mechanical equipment by others at all roof areas.

- Accordingly, the GC bid price for Project 1 should include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, including steel dunnage, and roof flashings as required to facilitate installation of mechanical equipment by others for all mechanical equipment serving spaces in the Project 1 scope (all spaces except the renovated Library).
- In the same manner, the GC bid price for Project 2 should include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, and roof flashings as required to facilitate installation of mechanical equipment by others for all mechanical equipment serving spaces in the Project 2 scope, which is the renovated Library.
- It follows that the MC, PC and EC bid prices for Projects 1 & 2 will include (but are not limited to) necessary work for mechanical, electrical & plumbing equipment that service the spaces included within the respective Project 1 & 2 spaces, and that the MC, PC and EC bid prices for Project 4 Roofing may accordingly be minimal, or zero.

### **3. At High/Middle School:**

- The GC bid price for Project 4 Roofing is for complete removal and replacement of roofing materials per Contract Documents in Roof Area Q. In the event that Project 4 is not accepted, the GC is still responsible for installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, including steel dunnage, and roof flashings as required to facilitate installation of mechanical equipment by others at all roof areas.
- Accordingly, the GC bid price for Project 1 should include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, including steel dunnage, and roof flashings as required to facilitate installation of mechanical equipment by others for all mechanical equipment serving spaces in the Project 1 scope (all spaces except the MS iLab and Guidance Offices, new Elevator and 3<sup>rd</sup> floor Learning Commons).
- In the same manner, the GC bid price for Project 2, which is the MS iLab and Guidance Offices and 2<sup>nd</sup> floor MER, should include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, including steel dunnage, and roof flashings as required to facilitate installation of mechanical equipment by others which serves the MS iLab and Guidance Offices and 2<sup>nd</sup> floor MER.
- In the same manner, the GC bid price for Project 3, which includes the new Elevator and 3<sup>rd</sup> floor Learning Commons, shall include all roofing scope associated with the new elevator tower, which is Roof Areas E1 & E2 and removal and replacement of existing, adjacent roofing to facilitate construction of the elevator tower. It should also include installation of curbs/rails/portals supplied by others, all structural scope to support mechanical equipment, and roof flashings as required to facilitate installation of mechanical equipment by others which serves the new Elevator and 3<sup>rd</sup> floor Learning Commons.
- It follows that the MC, PC and EC bid prices for Projects 1, 2 & 3 will include (but are not limited to) necessary work for mechanical, electrical & plumbing equipment that service the spaces included within the respective Project 1, 2 & 3 spaces. Accordingly, the MC, PC and EC bid prices for Project 4 Roofing may accordingly be minimal, or zero.

**This Addendum No. 3 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.**

- However, the MC and EC should note that the new UV's in MS Rooms 214 & 216 are included within the scope of Project 4 Masonry Restoration. Thus, the High/Middle School Bid Form is modified to accommodate the MC and EC providing a bid price for Project 4 Masonry Restoration.
- 2. On page 1 of the BID FORM for the OSBORN SCHOOL, please change "Contract No. 1-EC - WINDOWS" to "Contract No. 1-WC -WINDOWS".
- 3. **ALL SCHOOLS:**  
**Clarification Note:** EC to hire qualified subcontractor to install Telecoil loop wire. Contact information for 3 such qualified local subcontractors are provided below for convenience:

**Open Systems Metro**

Contact: Joe Nani  
258 Rte 117 Bypass Rd  
Bedford Hills, NY 10507  
Phone: 914-241-0057  
[www.osmetro.com](http://www.osmetro.com)

**Mason Technologies**

Contact: Chris Kugler  
517 Commack Rd.  
Deer Park, NY 11729  
Phone: 631-234-6565  
[www.mason247.com](http://www.mason247.com)

**Metro Sound Pros**

Contact: Leo Garrison  
577 State Route 208, Suite 200  
Monroe , NY 10950  
Phone: 845-429-7900  
[www.metrosoundpros.com](http://www.metrosoundpros.com)

4. **Midland**  
**HVAC:**

a. Drawing H2-203 PARTIAL FIRST FLOOR PLAN

Partial First Floor Plan 1/H2-203

- The six UVAC-A unit ventilators shall drain condensate directly to the exterior, to a Splashblock, ¾ " condensate pipe.

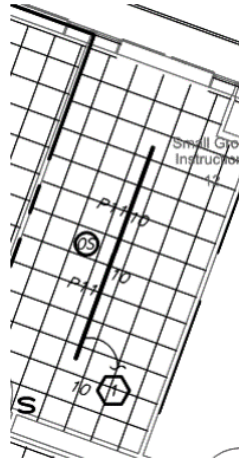
b. Drawing H2-204 ROOF PLAN

Roof Plan 1/H2-204

- All new VFR Outdoor Units shall be supported by roof rails, furnished by HVAC, installed by general contractor.

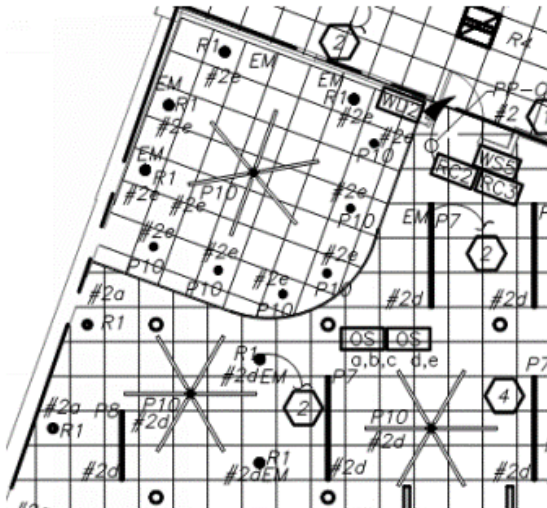
**This Addendum No. 3 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.**

5. **Question: (Midland)** Please confirm that the area outlined as Project 1A on E2-202 is the same area as the Grey Box area shown on E2-104.  
And if so, please confirm which lighting layout is correct. On E2-104 one fixture type is shown as a Type P3, however on E2-202 it is shown as a Type P9-W.  
**Response:** In Drawing E2-104, all "P3" fixtures shall be "P9-W" Refer to drawing E2-104 in Bid Addendum 3 for more detail.
6. **Question: (Midland)** There is a fixture shown on drawing E2-201 in Small Instruction Room 12 listed as a Type P11. The fixture schedule shows this as a 36' square fixture, however that is not how it appears in this location. The same goes for the Type P11 fixtures shown on E2-202 Please confirm if this fixture type is correct.



**Response:** In Classroom 12 provide two (2) P4 fixtures. Refer to Drawing E2-201 in Bid Addendum 3 for more detail.

7. **Question: (Midland)** There are multiple different style fixtures listed as the Type P10 fixtures on drawing E2-202. Please confirm the correct fixture types for all fixtures shown below.



**Response:** Fixture "P10" shall be as shown in drawing E2-202.

8. **Question: (HS/MS)** The fixture schedule designations are not interchangeable throughout the projects. That being said the fixture schedule on E2-601 does not have a Type R3 fixture, however there are Type R3 fixtures shown on the floor plans throughout the project.  
**Response:** All "R3" fixtures shall be changed to "R2" fixtures. Refer to E2-201 on Bid Addendum 3 for further clarification.

**This Addendum No. 3 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.**

9. **Question: (HS/MS)** Please clarify the significance of the dotted lines to the PA speakers shown on the risers on E2-502. Is that existing cable to be reused? Or is all new cabling going to all new devices?  
**Response:** All PA speaker wiring shall be new. Refer to E2-502 in Bid Addendum 3 for more clarification.
10. **Question: (HS/MS)** The riser shows a #20/2P cable to each speaker with a Call Station. Do the speakers that do not have call stations associated with them require a #20/2C or is a #20/1P acceptable?  
**Response:** Provide #20/2P cable as specified.
11. **Question: (HS/MS)** Does every speaker require a homerun back to the PA Rack?  
**Response:** Every Speaker requires a homerun as shown on the design documents.
12. **Question: (Midland)** On drawing A2-606 Head Detail 2, 3 and 4 – Please indicate which windows get which detail?  
**Response:** See Elevation drawings, A2-201 and A2-202 for detail key ins.
13. **Question: (Midland)** On drawing A2-606, which contract is responsible for the new gyp. board interior soffits at details 2, 3 and 4?  
**Response:** Window Contractor, Multiple Contract Summary to be updated.
14. **Question: (Midland)** On drawing A2-606 Detail #4, which contract is responsible for the exterior soffit and fascia work indicated on this detail?  
**Response:** Window Contractor, Multiple Contract Summary to be updated.
15. **Question: (Midland)** On drawing A2-606 Detail #1, which contract is responsible for the new interior stone sill, trim and wood blocking?  
**Response:** Window Contractor, Multiple Contract Summary to be updated.
16. **Question: (Midland)** Roof Plan drawings A2-110, A2-111 and A2-112 all indicate Project 4, is this work Project 4?  
**Response:** Project 4 at Midland includes roof replacement and window replacement. For roof replacement, bidders for the GC, MC, PC and EC contracts shall provide a bid amount. For window replacement, bidders for the WC contract shall provide a bid amount. Reference the Bid Form for Midland.
17. **Question: (All Schools)** Please indicate which storefront series is the Basis of Design including storefront tube dimensions that the storefront windows are to be fabricated from. Please supply specification.  
**Response:** Basis of Design for the Storefront window series is: YKK, YES 45 TU Front Set. The revised spec section will be provided in the upcoming addendum. **(Specification Section 085113 Aluminum Windows – Exterior provided in this Addendum.)**
18. **Question: (All Schools)** Please indicate which series casement and projection windows are to be installed into the storefront windows. Please supply specification.  
**Response:** Basis of Design for the Casement and Projection windows are the YKK, SSG Vent TU. The revised spec section will be provided in the upcoming addendum. **(Specification Section 085113 Aluminum Windows – Exterior provided in this Addendum.)**

**This Addendum No. 3 forms part of the Contract Documents and modifies the original bidding documents dated, January 19, 2021.**

19. **Question: (Midland)** On drawing D2-201, which contract is responsible for Demolition keynote "1C," 'Remove existing masonry/gyp. to create new window opening.'?  
**Response:** At Demolition Keynote 1C, the GC shall demolish the masonry openings and supply and install the new lintel and louver at four (4) locations. At louvers in window openings, the WC shall remove the existing window (and relocate if required as an escape window until new windows are installed) and supply and install the louver at two (2) locations in Phase 1A. Louver shall match window system. GC and WC shall coordinate with the MC as required.
20. **Question: (All Schools)** Bid Security amount says Five Percent (10%), which is correct 5% or 10%?  
**Response:** The bid security amount is ten percent (10%) as clarified in Addendum No. 2.
21. **Question: (Osborn)** Bid Form 00 03 10-ES-1, window contract is listed as EC-windows, should the EC be WC?  
**Response:** Yes, that is a misprint. On the Bid Form, the Contractor for Windows Construction should be designated as "WC".
22. **Question: (All Schools)** Page 2 of 074200-2.03 Panel Fabrication #1 – Bullet Resistant Layer – UL Level as per architect. What is the UL Level of Bullet Resistance required in the windows and entrances? The levels are 1 through 8. With a wide price range in between.  
**Response:** Panel thickness is 1/4" and Level 1. **(Update: Window Bullet Resistance is noted in documents.)**
23. **Question: (Milton)** Please advise if pro press fittings are allowed to be used?  
**Response:** See addendum to follow.
24. **Question: (Midland)** On drawing A2-540 Bathrooms #T-1 and T-2 show ceilings and floor tile as alternate A. No spot on bid form. Are these bathrooms alternates?  
**Response:** This has been addressed in Addendum No. 2.
25. **Question: (Midland)** Is all casework owner supplied and installed?  
**Response:** Casework and furniture shown on 900 series sheets is by owner. Meal shelving is also by owner. All other casework is by G.C.
26. **Question: (Midland)** For alternate 1D is the GC Scope limited to remove and replace the roof. I see a note on H2-201 about ceiling removal, who is responsible for that?  
**Response:** Midland Project 1 - Alternate D is for the HVAC scope at the cafeteria. The GC scope at the cafeteria roof is in Project 4 as base bid. Thus, the GC is replacing the cafeteria roof if Project 4 is accepted, regardless of whether the alternate for HVAC scope at that roof is accepted. Removal and replacement of the existing cafeteria ceiling to facilitate HVAC scope will be by the Contractor for Mechanical Construction (MC).
27. **Question: (Midland)** I just want to confirm that on the Midland bid form alternate #3, project 4a is an alternate for contract #2 WC – Windows and not part of contract 2-GC.  
**Response:** We believe you are referring to Project 4 - Alternate A. The scope of work in this alternate is for the Contractor for Window Construction (WC).

28. **Question: (Multiple Contracts)** Currently the multiple contract summary for the Window Contract and GC Contract overlap. Could you please confirm who is responsible for the Metal Window Panels, Metal Composite Material Wall Panels, Aluminum Entrances and Storefronts, Glazed Aluminum Curtain Walls, Solar Control Coated Insulating Glass, & Fixed Louvers.

**Response:** Bidders are advised that there is overlap in the use of specification sections between contracts. Regarding the scope of storefront, windows and louvers, note the following per building:

**Osborn School:**

- GC is responsible for the entire scope of storefront at the security vestibule, windows at the Gym wall and masonry infill at removed UV louvers.
- MC is responsible for louver removal at demolished UV's.
- WC is responsible for the entire scope of windows at classrooms.

**Midland School:**

- GC is responsible for the entire scope of storefront at the security vestibule and mechanical louvers at new masonry openings at four (4) locations, including creating the openings.
- WC is responsible for the entire scope of windows throughout the building and mechanical louvers in existing window openings at two (2) locations. Note specific windows are included in different phases.

**Milton School**

- GC is responsible for the entire scope of storefront at the security vestibule and the mechanical louver in the boiler room, including increasing the size of the masonry opening as required.

**High/Middle School**

- GC is responsible for the entire scope of storefront at two (2) security vestibules and mechanical louvers for new UV's, including creating masonry openings and providing insulated panels as required.
- MAS is responsible for the entire scope of windows and louvers at the Middle School masonry façade.

29. **Question: (Projects 1 & 2 Description and Allowance Designation)** I do not understand the breakouts of the different project areas 1 & 2 along with all the alternates. Could you please write out specifically the scope of each? Also where are we supposed to assign the allowances to? Which contract do I put the \$125,000 in? If I put it in the project 1 price and you only select project 2 the allowance will be missing. Please advise.

**Response:** See the Bid Projects list on the Title Sheet. Project 2 is the Library and Support Services Suite. Project 4 is roofing. Project 1 is all other items of work.

All bidders for GC, MC, PC and EC contracts shall place the allowance amounts in their bid price for Project 1 at each building. All bidders for the WC contracts at Osborn and Midland, the RC contract at Milton and the MAS contract at the High/Middle School shall place the allowance amounts in their bid price for Project 4.

30. **Question: (General Conditions)** Under which project am I supposed to put the General Conditions? You cannot split the General Conditions in half. The way the projects are currently split up the only thing a responsible bidder can do is double the general conditions. The only way to eliminate this problem is to set either Project 1 or Project 2 as the base bid. Please advise.

**Response:** The bid amount for each individual project should have the necessary percentage added for general conditions that are required for the value of the work in that project only. For example, at Osborn, prospective bidders for the GC contract will calculate their expense for general conditions individually for Project 1, Project 2 and Project 4. When

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preparing their bid for the combined projects, prospective bidders may adjust the general conditions based on the premise that all the projects will be accepted.

31. **Question: (Projects 1 & 2 & Phasing)** Currently the Phasing plans and Projects 1 & 2 don't match up. This could end up being confusing for subcontractors as they are labeled similarly. Could you please provide us with a separate drawing that clearly labels which areas of the building are Project 1 & Project 2. Currently CIP-3 is a mixture of phasing as well as area locations and it is confusing.

**Response:** It is not intended that the CIP plan shall match up with the list of projects at each building. The work included in each project is given an overall definition in the Bid Projects list on the Title Sheet. The specific work included within each project is labeled on the individual drawings.

The CIP plans define what areas of each building are included in each phase, or time period, of work. For instance, Phase 1A is work to be completed in the summer of 2021. Phase 1B is work that will start in summer 2021 and continue into early 2022, with work moving to second shift as of August 30, 2021. Phase 2 is work to be completed in the summer of 2022.

It is necessary for contractor to cross reference the documents to get a full picture of what is happening where and when. More specific questions can be submitted as RFI's.

32. **Question: (Signage)** Could you please provide us with a signage drawing/schedules?

**Response:** New and renovated rooms to receive new signage to match existing.

33. **Question: (HS/MS Elevator)** Anticipated elevator purchase date?

**Response:** It is intended that the elevator shall be purchased as soon as possible after contract award. GC to immediately pursue acquisition of full submittals and shop drawings for review upon receipt of award letter.

34. **Question: (HS/MS Elevator)** Elevator shaft ready date (approximate)? CMU or Steel?

**Response:** The shaft is composed primarily of CMU. Per the Milestone Schedule, the shaft and roof, including tie-ins to adjacent roof, are to be completed by August 20, 2021.

35. **Question: (HS/MS Elevator)** Building power is 208 or 480v?

**Response:** The building has both 208V and 480V available. However, the elevator requires 480V.

36. **Question: (Milton)** The plans call for the chimney to be lined. The chimney lining detail (#3) on page H2-204 calls the approximate height of the chimney 30 ft. Can you verify this height and the height of the chimney above the roof?

**Response:** Approximate height of chimney is 30ft. Approximate height above roof is 6 ft. Contractor to visit site for more info.

37. **Question: (Milton)** Who is responsible for furnishing the chemical feeder CFT-1?

**Response:** HVAC Contractor, see detail 2/H2-401.

38. **Question: (Milton)** On drawing H2-204 Detail #2 calls for Draft Control Assembly on each boiler breeching. Please clarify what is required.

**Response:** See spec 23 01 20 1.3E #1 and 3.3 G #2. Draft control assembly furnished by manufacturer based on field conditions and installed by contractor. Submit as part of boiler flue shop drawing.

39. **Question: (Osborn)** Who is responsible for furnishing the Convectors CONV-A?  
**Response:** All convectors are provided and installed by the HVAC contractor.
40. **Question: (Milton)** Drawing H2-204 Detail #3 says, "Refer to Specifications for Chimney Cleaning." Please clarify if this is required as the plan calls for lining the chimney. If required, please provide the spec for this.  
**Response:** See spec 230110 1.2 C.
41. **Question: (Osborn)** Please clarify who is responsible for pipe penetrations in the interior walls, exterior walls, & roof. Under the Multiple Contracts Summary 011000 ES-10 1.06 A.13 says the GC will install sleeves and 011000 ES-11 1.06 A.21 says the GC will "Provide openings in exterior and interior masonry walls for installation of mechanical equipment and material." 011000 ES-11 1.06 B.12 says "Cutting and Patching unless otherwise noted."  
**Response:** The following reply applies to the Multiple Contract Summary for all buildings:  
1) Subparagraph 1.06.A.13 provides that GC will install sleeves provided by other contracts where required penetrations are through new construction by the GC.  
2) Subparagraph 1.06.A.21 provides that GC is responsible for openings in existing masonry walls that require the installation of lintels. If coring for pipe or conduit penetrations, the contractor performing the work is responsible for the opening. In either case, the contractor performing the work must seal the penetrations per code and industry standard.  
3) The Mechanical Contractor is responsible for cutting and patching at all areas where the work of other prime contractors is not required.
42. **Question: (Osborn)** Please provide a detail for interior and exterior pipe penetrations.  
**Response:** No details required. See specifications.
43. **Question: (Osborn)** Please clarify who is providing equipment support rails for the Condenser Units.  
**Response:** HVAC Contractor is responsible to provide roof equipment support rails to General Contractor. General Contractor is responsible to install roof equipment support rails.

SECTION 00 03 10  
BID FORM

Interior & Exterior Renovations

at the

**RYE HIGH SCHOOL / MIDDLE SCHOOL**

**BOARD OF EDUCATION  
RYE CITY SCHOOL DISTRICT  
RYE, NY 10580**

SUBMITTED FOR: **BID # 20-21-08  
Contract No.:4**

**RYE HIGH SCHOOL / MIDDLE SCHOOL**

**Contract No. 4-GC – GENERAL CONSTRUCTION**

**Contract No. 4-MC – MECHANICAL**

**Contract No. 4-PC – PLUMBING**

**Contract No. 4-EC – ELECTRICAL**

**Contract No. 4-MAS – Masonry Restoration @ Middle School**

*(circle the Contract for which your Company is submitting a Bid)*

SUBMITTED BY: Company  
Name:

Address:

Phone

Fax:

TO:

*By mail; by hand or*

*By express mail*

Gabriella O'Connor

Rye City School District

555 Theodore Fremd Avenue, Suite B-101

Rye, NY, 10580

Pursuant to and in accordance with the invitation for proposals for the Interior and Exterior Renovation at the Rye High School / Middle School in Rye, New York and having familiarized myself with the conditions of the site, the drawings and specifications (including instruction to bidders, form of bid bond, form of Contract, the general conditions with modifications thereto, and the technical specifications) and addenda, if any, as prepared by Geddis Architects, Fielding International, Odeh Engineers, Weston & Sampson, PE, LS,LA,PC, Barile Gallagher & Associates, DP Design and Quest Environmental Solutions & Technologies, Inc. dated **January 19, 2021** hereby propose to furnish all labor, material, equipment, and services required to construct and complete the work as follows:

\* BASE BID the contract must include all costs associated with the scope of work identified in the Contract Documents.

***A contractor submitting a bid for projects 1, 2, 3 and 4 Roofing must submit a bid for all four of the projects. The Rye City School District will select either the combined of all four projects or only one, two or three of the projects.***

**1A. BASE BID**

**Contract No. 4-GC – GENERAL**

**Contract No. 4-MC – MECHANICAL**

**Contract No. 4-PC – PLUMBING**

**Contract No. 4-EC – ELECTRICAL**

*(Circle the Contract for which your Company is submitting a Bid)*

**Project 1**

Submit price for all labor materials as shown on the drawings and as described in the Contract Documents. See Section 01 10 00 for description of work.

The sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_)

**Project 2**

Submit price for all labor materials as shown on the drawings and as described in the Contract Documents. See Section 01 10 00 for description of work.

The sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_)

**Project 3**

Submit price for all labor materials as shown on the drawings and as described in the Contract Documents. See Section 01 10 00 for description of work.

The sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_)

**Project 4 Roofing**

Submit price for all labor materials as shown on the drawings and as described in the Contract Documents. See Section 01 10 00 for description of work.

The sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_)

**Combined: Project 1, 2, 3 & 4-Roofing**

Submit price for all labor materials as shown on the drawings and as described in the Contract Documents. See Section 01 10 00 for description of work.

The sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_)

**1B BASE BID**

**Contract No. 4-MAS – Masonry Restoration @ Middle School**

**Contract No.-4-MC - Mechanical associated with the Masonry Restoration at Middle School**

**Contract No.-4 EC - Electrical associated with the Masonry Restoration at Middle School**

*(Circle the Contract for which your Company is submitting a Bid)*

**Project 4**

Submit price for all labor materials as shown on the drawings and as described in the Contract Documents. See Section 01 10 00 for description of work.

The sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_ )

**1C. ALLOWANCES**

Contractor must attach the Allowances Attachment 01 21 00.2 to the bid.

**1D. ALTERNATES: Refer to Division 1 Section “Alternates” for description of alternates.**

Contractor must attach the Alternates Attachment 01 23 00.2 to the bid.

**1E. UNIT PRICES**

Contractor must attach the Allowances Attachment 01 22 00.2 to the bid.

**1F. SCHEDULE OF VALUES**

A schedule of values shall be submitted by the Prime Contractor as per the requirements of the Contract Documents.

**BID SECURITY**

Bid security based on the Base Bid.

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_ ) in the form of

is attached herewith in accordance with the specifications.

**ADDENDA**

In submitting this proposal, I have received and included in this Proposal, the following Addenda:

Date

Addendum No.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned hereby certifies that he/she or they has (have) full authority to make the Proposal and does further declare that he/she or they is (are) the only person or persons interested in the Proposal and has not entered into any collusion in preparing the Proposal.

The undersigned acknowledges that there will not be cost to the Owner pertaining to the submission of this Proposal and the Owner(s) has the right to reject any and all bids.

The undersigned agrees that no bid will be withdrawn within forty-five (45) days, except in accordance with New York GML §103(11), and the owner shall be permitted to accept this proposal within forty-five (45) days of the bid date.

The undersigned acknowledges that he/she or they are fully aware of the time constraints and coordination required as outlined in the information for bidders and agrees, if awarded the Contract, to submit all required bonds, insurance certificates, schedule of values and any other required documents within ten (10) days of receipt of letter of intent or before work starts, whichever is first. It is also agreed that a construction schedule will be submitted as outlined in the Contract Documents.

The undersigned acknowledges that he/she or they have (has) reviewed and will comply with the requirements of the State of New York Department of Labor included in these specifications.

The undersigned acknowledges that he/she or they is (are) aware that at the Board's discretion, separate contracts will be awarded based upon the lowest responsible bid for each project or a single contract will be awarded based the lowest responsible bid for all projects, or the proposals, subject, however, to the discretionary right reserved by the Board of Education to waive any informalities in any proposal, or to reject any or all proposals, will take such action if, in its opinion, the best interest of the School District will thereby be promoted.

Respectfully submitted,  
By:

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed/Typed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Dated

Sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

\_\_\_\_\_  
Notary Public

**Rye City Schools****Osborn Elementary School****10 Osborn Road, Rye, NY 10580**

SED Number: # 6618-0001-0001-023

Issued for Bid: 2021-01-19

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Rye City Schools

**Osborn Elementary School**

10 Osborn Road, Rye, NY 10580

SED Number: # 6618-0001-0001-023

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**Rye City Schools****Osborn Elementary School****10 Osborn Road, Rye, NY 10580**

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**Rye City Schools**

**Osborn Elementary School**

**10 Osborn Road, Rye, NY 10580**

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**SECTION 084113**  
**ALUMINUM-FRAMED ENTRANCES & STOREFRONTS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Aluminum Entrance Doors, including:
- B. Related Sections:
  - 1. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 2. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 084413.1, 084413.2, Glazed Aluminum Curtain Wall.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

- A. Performance Requirements: Provide aluminum swing doors that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test methods indicated.
  - 1. Air Infiltration (Single Acting Butt Hinges, Continuous Hinges, or Offset Pivots): Air infiltration shall be tested in accordance with ASTM E 283 at static pressure of 1.57 PSF (75 Pa). Infiltration shall not exceed 0.50 CFM/FT<sup>2</sup> for single door or 1.00 CFM/FT<sup>2</sup> for pair doors.
  - 2. Structural: Door corner structural strength shall be tested per YKK AP's dual moment test procedure and certified by an independent testing laboratory to ensure corner integrity and weld compliance. Certified test procedures and results are available upon request.
  - 3. Structural Uniform Load Test:
    - a. Single Doors: ± 50 psf.
    - b. Pair of Doors: ± 33 psf.
  - 4a. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and AAMA 507 based on Standard 1" insulating unit:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 4b. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and NFRC 102 based on 1-1/2" clear high performance insulating glass, 1/4" Cardinal E366 Low-E (e=0.022\*, #2) Annealed, 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 0.050" HM88 SWT Film (e=0.110, #3/0.105\*, #4), 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 1/4" Clear Annealed having a center of glass U-factor of 0.14 BTU/hr/SF/°F:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 5. Acoustical Performance: Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 1" IGU; 33, laminated; 36.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 29, 1" laminated; 32.
  - 6. Forced Entry Resistance: 300 lbs. satisfactory.

**1.03 PROJECT CONDITIONS / SITE CONDITIONS**

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

*Rye City School District*  
*Osborn Elementary School*

*ALUMINUM FRAMED ENTRANCES & STOREFRONTS*

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## 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Product Data: Submit product data for each entrance series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, and finish colors.
- E. Samples: Submit verification samples for colors. Minimum 2-1/2 inch by 3 inch (61 mm by 73 mm) samples on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  - 1. Warranty: Submit executed warranty documents specified herein, endorsed by YKK AP authorized official and installer.
  - 2. Project Record Documents: Submit project record documents, including operation and maintenance data for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.
    - a. Maintenance Data: Maintenance procedures for care and cleaning of entrance systems.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size:
  - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers)

A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000

1. Wausau Metals
2. Kawneer

1. MegaTherm® XT Entrance Doors:

2. Medium Stile Swing Doors: YKK AP Series 35XT Medium Stile Entrance.

a. Description: 2-3/8" (60.3 mm) thick by 3-1/2" (88.9 mm) wide Door Stile

3. Corner Construction: Fabricate door corners joined by concealed reinforcement secured with screws, and sigma deep penetration welding.

4. Glazing Stops: Manufacturer's standard snap-in glazing stops with EPDM glazing gaskets to prevent water infiltration.

5. Weather-stripping: Manufacturer's standard pile type in replaceable rabbets for stiles; manufacturer's standard EPDM bulb type for door frames.

6. Hardware: Manufacturer's standard as selected by Architect.

### 2.02 MATERIALS

A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.

B. Aluminum Sheet:

1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050" (1.27 mm) minimum thickness.

2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95) mm) minimum thickness.

### 2.03 ACCESSORIES

A. Manufacturer's Standard Accessories:

1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.

2. Sealant: Non-skinning type, AAMA 803.3.

3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

### 2.04 RELATED MATERIALS (Specified In Other Sections)

A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

### 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with uniform hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.
  - 1. Hardware: Drill and cut to template for hardware. Reinforce frames and door stiles to receive hardware in accordance with manufacturer's recommendations.
  - 2. Welding: Conceal welds on aluminum members in accordance with AWS recommendations or methods recommended by manufacturer. Members showing welding bloom or discoloration on finish or material distortion will be rejected.

## 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:
  - 1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with procedures and meeting AAMA 2605 specifications.
  - 2. Colors: Selected by Architect from the following:
    - a. Standard coating color charts.
  - 3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- D. Finishes Testing:
  - 1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
  - 2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions and approved shop drawings.

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.
  - 1. Verify location of preset anchors, perimeter fasteners, and block-outs are in accordance with shop drawings.

### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
  - 1. Aluminum Surface Protection: Protect aluminum surfaces from contact with lime, mortar, cement, acids, and other harmful contaminants.

### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
  - 1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
  - 2. Shim and brace aluminum system before anchoring to structure.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect the installed product's finish surfaces from damage during construction.

END OF SECTION

**SECTION 084413.1**  
**GLAZED ALUMINUM CURTAIN WALLS**

**PART 1 GENERAL**

**1.01 SUMMARY**

A. Section Includes: Glazed Aluminum Curtain Walls:

B. Related Sections:

1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
3. Single Source Requirement: All products listed below shall be by the same manufacturer.
  - a. Section 08 41 13 Aluminum-Framed Entrances and Storefronts.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

A. Performance Requirements: Provide aluminum curtain wall systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.

1. Risk Category IV
2. Air Infiltration: Completed curtain wall systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
3. Water Infiltration:
  - a. No uncontrolled water on indoor face of any component when tested in accordance with ASTM E 331 at a static pressure of 15 PSF (718 Pa).
4. Optional Incidental Water Management: Head member shall be capable of directing condensation from the wall cavity above the curtain wall to the exterior of the system.
5. Wind Loads: Completed curtain wall system shall withstand wind pressure loads per local code requirements.

Submit Sealed Structural Calculations from a NY licensed Engineer for review.
6. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
  - a. For spans up to 13'-6" (4.1m): L/175 maximum.
  - b. For spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m): L/175 or L/240 + 1/4" (6.4mm).
7. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
8. Thermal Performance tested in accordance with AAMA 1503:
  - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 75.

b. Thermal Transmittance U Value: 0.41 BTU/HR/FT<sup>2</sup>/°F

### 1.03 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with “Conditions of the Contract” and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in “Conditions of the Contract.”
- B. Product Data: Submit product data for each type curtain wall series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  - 1. Warranty: Submit warranty documents specified herein.
  - 2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

### 1.04 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size:
  - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval..
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.05 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

## 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  - 1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000
  - 1. Wausau Metals
  - 2. Kawneer
- 1. Curtain Wall System: YKK AP YCW 752 OGP Aluminum Curtain Wall System.
- B. Curtain Wall Framing System:
  - 1. Description: Framing shall be thermally improved. Horizontal and vertical framing members shall have a nominal face dimension of 2-1/2 inches. Depth as indicated on drawings. Framing system shall provide a flush glazed appearance on all sides with no protruding glass stops.

### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 and 6063-T6 Aluminum Alloys.
- B. Aluminum Sheet:
  - 1. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.
- C. Thermal Barrier: Provide continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non-structural thermal barriers are not acceptable.

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.

2. Sealant: System sealants selected by installer are to be permanently elastic, non-shrinking, non-migrating type recommended by sealant manufacturer for joint size, movement, and compatibility.
3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

#### 2.04 RELATED MATERIALS (Specified In Other Sections)

- A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

#### 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

#### 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:

1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with manufacturer, procedures and meeting AAMA 2605 specifications.
2. Colors: Selected by Architect from the following:
  - a. Standard coating color charts.
3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

- D. Finishes Testing:

1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
2. Submit samples with test area noted on each sample.

### PART 3 EXECUTION

#### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions. The latest Installation Manual can be found at [www.ykkap.com](http://www.ykkap.com).

#### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

#### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

#### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.

1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
2. Shim and brace aluminum system before anchoring to structure.
3. Verify curtain wall system allows water entering system to be collected in gutters and wept to the exterior. Verify weep holes are open, and metal joints are sealed in accordance with manufacturers installation instructions.
4. System Perimeter Seals: Refer to Division 7 joint treatment section for sealant requirements.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of curtain wall system. Conduct test in accordance with AAMA 501.2.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 084413.2

**SECTION 085113**  
**ALUMINUM WINDOWS- EXTERIOR**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Operable Aluminum Window Systems
  - 1. YKK AP Series YES SSG TU Vent Operable Aluminum Window System.
  - 2. YKK AP Series YES 45 TU Front Set Storefront System.
- B. Related Sections:
  - 1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
  - 2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 3. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 08 41 13 Aluminum-Framed Entrances & Storefronts.
    - c. Section 08 44 13.1 Glazed Aluminum Curtain Wall.

**1.02 TEST AND PERFORMANCE REQUIREMENTS - For Operable Windows**

- A. All test unit sizes and configurations shall conform to the minimum sizes in accordance with AAMA/WDMA/CSA/I.S.A 440, with a performance class of AW-PG65-C (Casement Out), AW-PG65-AP (Project Out). Windows shall also comply with the following specific performance requirements indicated.
  - 1. Air Infiltration: When tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa), completed window systems shall have maximum allowable infiltration of 0.10 CFM/FT<sup>2</sup> (1.85 m<sup>3</sup>/h·m<sup>2</sup>).
  - 2. Water Infiltration: No uncontrolled water other than condensation on indoor face of any component when tested in accordance with ASTM E 331 and E 547 at a minimum test pressure differential of 12 PSF (575 Pa) operable, 15 PSF (718 Pa) fixed.
  - 3. Uniform Load Structural Test: Provide aluminum window systems that comply with AAMA/WDMA/CSA 101/I.S. A440, voluntary specifications for aluminum windows guidelines for specified AW rated product.
  - 4. Forced Entry Test: When tested in accordance with ASTM F 588, shall have a minimum performance grade of 10.
  - 5. Thermal Cycling Test: When tested in accordance with AAMA 910, All AW products shall be subjected to six thermal cycles, ranging from 0 degrees F (-18 degrees C) to 180 degrees F (82 degrees C), at 8 hours per cycle per AAMA 501.5.
  - 6. Thermal Performance: When tested in accordance with AAMA 1503 and NFRC 100:
    - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 69 (Casement or Project).
    - b. Thermal Transmittance U Value: 0.41 (Casement or Project) BTU/HR/FT<sup>2</sup>/°F or less.
  - 7. Acoustical Performance: When tested in accordance with ASTM E 1425, the Sound Transmission Class (STC), and Outdoor□Indoor Transmission Class (OITC) shall not be less than 35 STC and 28 OITC.
  - 8. Life Cycle Testing: When tested in accordance with AAMA 910, there shall be no damage to fasteners, hardware parts, or any other damage that would cause the specimen to be

inoperable. Resistance to air leakage and water penetration resistance test results shall not exceed the gateway performance.

### 1.03 TEST AND PERFORMANCE REQUIREMENTS - For Fixed Windows

- A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.
1. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
  2. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 12 PSF (575 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.
  3. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
    - a. Exterior Walls:
      - 1) Positive Pressure:
      - 2) Negative Pressure:
    - b. Interior Walls (Pressure Acting in Either Direction):
  4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
    - a. Without Horizontals: L/175 or 3/4" (19.1mm) maximum. .
    - b. With Horizontals: L/175 or L/240 + 1/4" (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).
  5. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
  6. Thermal Performance: When tested in accordance with AAMA 507, AAMA 1503 and NFRC 100:
    - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 68.
    - b. Thermal Transmittance U Value: 0.40 BTU/HR/FT<sup>2</sup>/°F or less.
  7. Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 32 Annealed, 36 laminated.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 27, 1" laminated; 30.

### 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with [Conditions of the Contract] and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in [Conditions of the Contract].
- B. Product Data: Submit product data for each type window series specified.

- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance/Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Close-out Submittals:
  - 1. Warranty: Submit warranty documents specified herein.
  - 2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Close-out (Project Record Documents) Section.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size: Full Size
  - 2. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

## 1.07 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  - 1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers/Products)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000;
  - 1. Operable Window System: YKK AP YES SSG TU Vent Operable Aluminum Window System.
  - 2. Fixed Window, Storefront System: YKK AP YES 45 TU Front Set Storefront System.
- B. Other Manufacturers that may be use only if approved by Architect as equal to all performance criteria and profile.
  - a. Wausau Metals
  - b. Kawneer
- C. Operable Window System:
  - 1. AAMA Designation: AW-PG65-C (Casement Out) and AW-PG65-AP (Project Out).
  - 2. Description: The windows shall be extruded aluminum; 3-1/2" frame depth; Vents shall be flush with frame and have mitered corner construction; Factory-assembled.
  - 3. Configuration: The windows shall be Casement Outswing, or Project Out Ventilator.
  - 4. Glazing: 1" insulating units; Exterior: EPDM weather seal; Interior: polyurethane foam spacer and structural silicone sealant; Factory or bench glazed.
- D. Storefront Framing System:
  - 1. Description: Front set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.
  - 2. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.
  - 3. Thermal Barrier: Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK ThermoBond Plus<sup>®</sup>. Systems employing non-structural thermal barriers are not acceptable.

### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.
- B. Aluminum Sheet:
  - 2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Hardware: Standard concealed stainless steel 4 bar hinges for casement outswing and projected vents. cam handles and strikes (color to be selected), black nylon snubbers.
  - 2. Fasteners: All fasteners to be AISI 300 series (except for self-drilling, which are to be AISI 400 series) stainless steel.
  - 3. Sealant: Non-skinning type, AAMA 803.3
  - 4. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer.
  - 5. 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.

## 2.04 FABRICATION

A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

## 2.05 FINISHES AND COLORS

A. High Performance Organic Coating Finish:

1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with YKK AP procedures and meeting AAMA 2605 specifications.
2. Colors: Selected by Architect from the following:
  - a. Standard coating color charts.
3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

D. Finishes Testing:

1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS

A. Compliance: Comply with manufacturer's product data, including latest product technical bulletins, installation instructions, and product carton instructions.

### 3.02 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

### 3.03 PREPARATION

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

### 3.04 INSTALLATION

A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.

1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials.
2. Shim and brace aluminum system before anchoring to structure.

3. Provide sill flashing at exterior storefront systems. Extend extruded flashing continuous with splice joints; set in continuous beads of sealant.
4. Verify storefront system allows water entering system to be collected in gutters and wept to exterior. Verify metal joints are sealed in accordance with manufacturers installation instructions.
5. Locate expansion mullions where indicated on reviewed shop drawings.
6. Seal metal to metal window system joints using sealant recommended by system manufacturer.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of window system. Conduct test in accordance with AAMA 502.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 085113

**Rye City Schools****Midland Elementary School****312 Midland Ave, Rye, NY 10580**

SED Number: # 6618-0001-0003-025

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322513	EROSION AND SEDIMENT CONTROL	1/19/2021
324260	EXCAVATION SUPPORT AND PROTECTION	1/19/2021
<b>DIVISION 33</b>	<b>SITE UTILITIES</b>	
331216	ASPHALT PAVING	1/19/2021
331313	CONCRETE PAVEMENT AND CURBS	1/19/2021
333113	CHAIN LINK FENCES AND GATES	1/19/2021
339220	RESTORATION OF TURF AREAS	1/19/2021

**SECTION 084113**  
**ALUMINUM-FRAMED ENTRANCES & STOREFRONTS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Aluminum Entrance Doors, including:
- B. Related Sections:
  - 1. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 2. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 084413.1, 084413.2, Glazed Aluminum Curtain Wall.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

- A. Performance Requirements: Provide aluminum swing doors that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test methods indicated.
  - 1. Air Infiltration (Single Acting Butt Hinges, Continuous Hinges, or Offset Pivots): Air infiltration shall be tested in accordance with ASTM E 283 at static pressure of 1.57 PSF (75 Pa). Infiltration shall not exceed 0.50 CFM/FT<sup>2</sup> for single door or 1.00 CFM/FT<sup>2</sup> for pair doors.
  - 2. Structural: Door corner structural strength shall be tested per YKK AP's dual moment test procedure and certified by an independent testing laboratory to ensure corner integrity and weld compliance. Certified test procedures and results are available upon request.
  - 3. Structural Uniform Load Test:
    - a. Single Doors: ± 50 psf.
    - b. Pair of Doors: ± 33 psf.
  - 4a. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and AAMA 507 based on Standard 1" insulating unit:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 4b. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and NFRC 102 based on 1-1/2" clear high performance insulating glass, 1/4" Cardinal E366 Low-E (e=0.022\*, #2) Annealed, 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 0.050" HM88 SWT Film (e=0.110, #3/0.105\*, #4), 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 1/4" Clear Annealed having a center of glass U-factor of 0.14 BTU/hr/SF/°F:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 5. Acoustical Performance: Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 1" IGU; 33, laminated; 36.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 29, 1" laminated; 32.
  - 6. Forced Entry Resistance: 300 lbs. satisfactory.

**1.03 PROJECT CONDITIONS / SITE CONDITIONS**

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

*Rye City School District  
Midland Elementary School*

*ALUMINUM FRAMED ENTRANCES & STOREFRONTS*

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## 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Product Data: Submit product data for each entrance series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, and finish colors.
- E. Samples: Submit verification samples for colors. Minimum 2-1/2 inch by 3 inch (61 mm by 73 mm) samples on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  - 1. Warranty: Submit executed warranty documents specified herein, endorsed by YKK AP authorized official and installer.
  - 2. Project Record Documents: Submit project record documents, including operation and maintenance data for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.
    - a. Maintenance Data: Maintenance procedures for care and cleaning of entrance systems.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size:
  - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers)

A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000

1. Wausau Metals
2. Kawneer

1. MegaTherm® XT Entrance Doors:
2. Medium Stile Swing Doors: YKK AP Series 35XT Medium Stile Entrance.
  - a. Description: 2-3/8" (60.3 mm) thick by 3-1/2" (88.9 mm) wide Door Stile
3. Corner Construction: Fabricate door corners joined by concealed reinforcement secured with screws, and sigma deep penetration welding.
4. Glazing Stops: Manufacturer's standard snap-in glazing stops with EPDM glazing gaskets to prevent water infiltration.
5. Weather-stripping: Manufacturer's standard pile type in replaceable rabbets for stiles; manufacturer's standard EPDM bulb type for door frames.
6. Hardware: Manufacturer's standard as selected by Architect.

### 2.02 MATERIALS

A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.

B. Aluminum Sheet:

1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050" (1.27 mm) minimum thickness.
2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95) mm) minimum thickness.

### 2.03 ACCESSORIES

A. Manufacturer's Standard Accessories:

1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
2. Sealant: Non-skinning type, AAMA 803.3.
3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

### 2.04 RELATED MATERIALS (Specified In Other Sections)

A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

### 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with uniform hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.
  - 1. Hardware: Drill and cut to template for hardware. Reinforce frames and door stiles to receive hardware in accordance with manufacturer's recommendations.
  - 2. Welding: Conceal welds on aluminum members in accordance with AWS recommendations or methods recommended by manufacturer. Members showing welding bloom or discoloration on finish or material distortion will be rejected.

## 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:
  - 1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with procedures and meeting AAMA 2605 specifications.
  - 2. Colors: Selected by Architect from the following:
    - a. Standard coating color charts.
  - 3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- D. Finishes Testing:
  - 1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
  - 2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions and approved shop drawings.

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.
  - 1. Verify location of preset anchors, perimeter fasteners, and block-outs are in accordance with shop drawings.

### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
  - 1. Aluminum Surface Protection: Protect aluminum surfaces from contact with lime, mortar, cement, acids, and other harmful contaminants.

### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
  - 1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
  - 2. Shim and brace aluminum system before anchoring to structure.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect the installed product's finish surfaces from damage during construction.

END OF SECTION

**084413.1**  
**GLAZED ALUMINUM CURTAIN WALLS**

**PART 1 GENERAL**

**1.01 SUMMARY**

A. Section Includes: Glazed Aluminum Curtain Walls:

B. Related Sections:

1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
3. Single Source Requirement: All products listed below shall be by the same manufacturer.
  - a. Section 08 41 13 Aluminum-Framed Entrances and Storefronts.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

A. Performance Requirements: Provide aluminum curtain wall systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.

1. Risk Category IV

2.. Air Infiltration: Completed curtain wall systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).

3.. Water Infiltration:

- a. No uncontrolled water on indoor face of any component when tested in accordance with ASTM E 331 at a static pressure of 15 PSF (718 Pa).
- b. No uncontrolled water on indoor face of any component when tested in accordance with AAMA 501.1 at a dynamic pressure of 15 PSF (718 Pa).

4. Optional Incidental Water Management: Head member shall be capable of directing condensation from the wall  
Cavity above the curtain wall to the exterior of the system.

5. Wind Loads: Completed curtain wall system shall withstand wind pressure loads per local code requirements. Submit Sealed Structural Calculations from a NY licensed Engineer for review.

6. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.

- a. For spans less than 13'-6" (4.1m): L/175 or 3/4" (19.1mm) maximum. .
- b. For spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m): L/175 or L/240 + 1/4" (6.4mm).

7. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.

8a. Thermal Performance:

- a. Tested in accordance with AAMA 1503.1, AAMA 507, and NFRC 100 based on 1" clear high performance insulating glass, 1/4" Clear (E=0.040 #2), 1/2" Air Space, 1/4" Clear, having a center of glass  
U-factor of 0.29 BTU/HR/FT<sup>2</sup>/°F with an NFRC U-factor of 0.37 BTU/HR/ FT<sup>2</sup>/°F.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): 78, with a CRF<sub>g</sub> of 67.
- c. Thermal Transmittance U-Factor: 0.37 BTU/HR/FT<sup>2</sup>/°F or less.

8b. Thermal Performance:

- a. When tested in accordance with AAMA 1503.1, AAMA 507, and NFRC 100 based on 1-1/2" clear high performance insulating glass, 1/4" Cardinal E272 (e=0.042\*, #2) Heat Strengthened, 0.28" Gap, Aluminum Spacer (A1-D), 95% Krypton-Filled, 0.002 SMIONE, 0.35" Gap, Aluminum Spacer (A1-D), 95% Krypton-Filled, 0.003" Southwall Technologies, Inc. HM88 (e=0.110\*, #5), 0.28" Gap, Aluminum Spacer (A1-D), 95% Krypton-Filled, 1/4" Clear Heat-Strengthened having a center of glass U-factor of 0.10 BTU/HR/FT<sup>2</sup>/°F.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): 82
- c. Thermal Transmittance U-Factor: 0.20 BTU/HR/FT<sup>2</sup>/°F or less.

8c. Thermal Performance:

- a. When tested in accordance with AAMA 1503., AAMA 507, and NFRC 100 based on 2" clear high performance glass, 1/4" Viracon VE1-85 (e=0.02040\*, #2) Heat-Strengthened, 0.69" Gap, Aluminum Spacer (A1-D), Air-Filled\*, 1/4" Viracon VE1-85 (e=0.088\*, #4) Heat-Strengthened, 0.69" Gap, Aluminum Spacer (A1-D), Air-Filled\*, 1/4" Clear Heat-Strengthened, having a center of glass U-factor of 0.16 BTU/HR/FT<sup>2</sup>/°F.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): 82
- c. Thermal Transmittance U-Factor: 0.24 BTU/HR/FT<sup>2</sup>/°F or less.

9. Acoustical Performance: When tested in accordance with AAMA 1801:

- a. Sound Transmission Class (STC) shall not be less than 32 for heat strengthened; 35 for laminated glazing.
- b. Outdoor-Indoor Transmission Class (OITC) shall not be less than 27 for heat strengthened; 30 for laminated glazing.

1.03 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Product Data: Submit product data for each type curtain wall series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  1. Warranty: Submit warranty documents specified herein.
  2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

1.04 QUALITY ASSURANCE

- A. Qualifications:

1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  1. Mock-Up Size:
  2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval..
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

#### 1.05 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

#### 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS (Acceptable Manufacturers)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000
  1. Wausau Metals
  2. Kawneer
  1. Curtain Wall System: YKK AP YCW 750 XT Aluminum Curtain Wall System.
- B. Curtain Wall Framing System:
  1. Description: Framing shall be thermally broken. Horizontal and vertical framing members shall have a nominal face dimension of 2-1/2 inches. Depth as indicated on drawings. Framing system shall provide a flush glazed appearance on all sides with no protruding glass stops.
  2. Thermal Barrier: Provide continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non-structural thermal barriers are not acceptable.

#### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 and 6063-T6 Aluminum Alloys.
- B. Aluminum Sheet:
  - 1. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.
  - 2. Thermal Barrier: Provide YKK AP MegaTherm® continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non-structural thermal barriers are not acceptable.

## 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
  - 2. Sealant: Non-skinning type, AAMA 803.3
  - 3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

## 2.04 RELATED MATERIALS (Specified In Other Sections)

- A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

## 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

## 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:
  - 1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with procedures and meeting AAMA 2605 specifications.
  - 2. Colors: Selected by Architect from the following:
    - a. Standard coating color charts.
  - 3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- B. Finishes Testing:
  - 1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
  - 2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions. The latest Installation Manual can be found at [www.ykkap.com](http://www.ykkap.com).

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
  - 1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
  - 2. Shim and brace aluminum system before anchoring to structure.
  - 3. Verify curtain wall system allows water entering system to be collected in gutters and wept to the exterior. Verify weep holes are open, and metal joints are sealed in accordance with manufacturers installation instructions.
  - 4. Seal metal to metal curtain wall system joints using sealant recommended by system manufacturer.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of curtain wall system. Conduct test in accordance with AAMA 501.2.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 084413.1

**SECTION 085113**  
**ALUMINUM WINDOWS- EXTERIOR**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Operable Aluminum Window Systems
  - 1. YKK AP Series YES SSG TU Vent Operable Aluminum Window System.
  - 2. YKK AP Series YES 45 TU Front Set Storefront System.
- B. Related Sections:
  - 1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
  - 2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 3. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 08 41 13 Aluminum-Framed Entrances & Storefronts.
    - c. Section 08 44 13.1 Glazed Aluminum Curtain Wall.

**1.02 TEST AND PERFORMANCE REQUIREMENTS - For Operable Windows**

- A. All test unit sizes and configurations shall conform to the minimum sizes in accordance with AAMA/WDMA/CSA/I.S.A 440, with a performance class of AW-PG65-C (Casement Out), AW-PG65-AP (Project Out). Windows shall also comply with the following specific performance requirements indicated.
  - 1. Air Infiltration: When tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa), completed window systems shall have maximum allowable infiltration of 0.10 CFM/FT<sup>2</sup> (1.85 m<sup>3</sup>/h·m<sup>2</sup>).
  - 2. Water Infiltration: No uncontrolled water other than condensation on indoor face of any component when tested in accordance with ASTM E 331 and E 547 at a minimum test pressure differential of 12 PSF (575 Pa) operable, 15 PSF (718 Pa) fixed.
  - 3. Uniform Load Structural Test: Provide aluminum window systems that comply with AAMA/WDMA/CSA 101/I.S. A440, voluntary specifications for aluminum windows guidelines for specified AW rated product.
  - 4. Forced Entry Test: When tested in accordance with ASTM F 588, shall have a minimum performance grade of 10.
  - 5. Thermal Cycling Test: When tested in accordance with AAMA 910, All AW products shall be subjected to six thermal cycles, ranging from 0 degrees F (-18 degrees C) to 180 degrees F (82 degrees C), at 8 hours per cycle per AAMA 501.5.
  - 6. Thermal Performance: When tested in accordance with AAMA 1503 and NFRC 100:
    - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 69 (Casement or Project).
    - b. Thermal Transmittance U Value: 0.41 (Casement or Project) BTU/HR/FT<sup>2</sup>/°F or less.
  - 7. Acoustical Performance: When tested in accordance with ASTM E 1425, the Sound Transmission Class (STC), and Outdoor□Indoor Transmission Class (OITC) shall not be less than 35 STC and 28 OITC.
  - 8. Life Cycle Testing: When tested in accordance with AAMA 910, there shall be no damage to fasteners, hardware parts, or any other damage that would cause the specimen to be

inoperable. Resistance to air leakage and water penetration resistance test results shall not exceed the gateway performance.

### 1.03 TEST AND PERFORMANCE REQUIREMENTS - For Fixed Windows

- A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.
1. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
  2. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 12 PSF (575 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.
  3. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
    - a. Exterior Walls:
      - 1) Positive Pressure:
      - 2) Negative Pressure:
    - b. Interior Walls (Pressure Acting in Either Direction):
  4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
    - a. Without Horizontals: L/175 or 3/4" (19.1mm) maximum. .
    - b. With Horizontals: L/175 or L/240 + 1/4" (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).
  5. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
  6. Thermal Performance: When tested in accordance with AAMA 507, AAMA 1503 and NFRC 100:
    - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 68.
    - b. Thermal Transmittance U Value: 0.40 BTU/HR/FT<sup>2</sup>/°F or less.
  7. Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 32 Annealed, 36 laminated.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 27, 1" laminated; 30.

### 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with Conditions of the Contract and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in Conditions of the Contract.
- B. Product Data: Submit product data for each type window series specified.

- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance/Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Close-out Submittals:
  - 1. Warranty: Submit warranty documents specified herein.
  - 2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Close-out (Project Record Documents) Section.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size: Full Size
  - 2. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

## 1.07 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  - 1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers/Products)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000;
  - 1. Operable Window System: YKK AP YES SSG TU Vent Operable Aluminum Window System.
  - 2. Fixed Window, Storefront System: YKK AP YES 45 TU Front Set Storefront System.
- B. Other Manufacturers that may be use only if approved by Architect as equal to all performance criteria and profile.
  - a. Wausau Metals
  - b. Kawneer
- C. Operable Window System:
  - 1. AAMA Designation: AW-PG65-C (Casement Out) and AW-PG65-AP (Project Out).
  - 2. Description: The windows shall be extruded aluminum; 3-1/2" frame depth; Vents shall be flush with frame and have mitered corner construction; Factory-assembled.
  - 3. Configuration: The windows shall be Casement Outswing, or Project Out Ventilator.
  - 4. Glazing: 1" insulating units; Exterior: EPDM weather seal; Interior: polyurethane foam spacer and structural silicone sealant; Factory or bench glazed.
- D. Storefront Framing System:
  - 1. Description: Front set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.
  - 2. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.
  - 3. Thermal Barrier: Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK ThermoBond Plus<sup>®</sup>. Systems employing non-structural thermal barriers are not acceptable.

### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.
- B. Aluminum Sheet:
  - 2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Hardware: Standard concealed stainless steel 4 bar hinges for casement outswing and projected vents. cam handles and strikes (color to be selected), black nylon snubbers.
  - 2. Fasteners: All fasteners to be AISI 300 series (except for self-drilling, which are to be AISI 400 series) stainless steel.
  - 3. Sealant: Non-skinning type, AAMA 803.3
  - 4. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer.
  - 5. 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.

## 2.04 FABRICATION

A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

## 2.05 FINISHES AND COLORS

A. High Performance Organic Coating Finish:

1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with YKK AP procedures and meeting AAMA 2605 specifications.
2. Colors: Selected by Architect from the following:
  - a. Standard coating color charts.
3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

D. Finishes Testing:

1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS

A. Compliance: Comply with manufacturer's product data, including latest product technical bulletins, installation instructions, and product carton instructions.

### 3.02 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

### 3.03 PREPARATION

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

### 3.04 INSTALLATION

A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.

1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials.
2. Shim and brace aluminum system before anchoring to structure.

3. Provide sill flashing at exterior storefront systems. Extend extruded flashing continuous with splice joints; set in continuous beads of sealant.
4. Verify storefront system allows water entering system to be collected in gutters and wept to exterior. Verify metal joints are sealed in accordance with manufacturers installation instructions.
5. Locate expansion mullions where indicated on reviewed shop drawings.
6. Seal metal to metal window system joints using sealant recommended by system manufacturer.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of window system. Conduct test in accordance with AAMA 502.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 085113

## **SECTION 230410**

### **PIPING, FITTINGS, VALVES AND NOTES (HOT WATER)**

#### **PART 1 - GENERAL**

Applicable Provisions of the Conditions of the Contract and Division 1 General Requirements shall govern work in this section. Submit shop drawings for checking and approval.

##### **1.1 PIPING NOTES**

1. The Contractor shall erect all pipe, fittings, valves, hangers, anchors, expansion joints and all accessories specified, indicated on the Drawings or required to assure proper operation of all piping systems installed under this Contract. All piping shall be maintained at a proper level to assure satisfactory operation, venting and drainage. Piping and valves in any locality where possible shall be grouped neatly and shall be run so as to avoid reducing headroom or passage clearance.
2. All piping shall be new and of the material and weight specified under various services. Steel and wrought iron pipe 2" and larger shall be seamless or lap welded. All piping shall have the maker's name and brand rolled on each length of pipe.
3. All piping, fittings, valves and strainers shall be cleaned of grease, dirt and scale before installation. All temporary pipe openings shall be kept closed during the performance of the work. The ends of all piping shall be reamed smooth and all burrs removed before installation.
4. All piping shall be cut accurately to measurements taken on the job. Offset connections shall be installed alignment of vertical to horizontal piping and where required to make a true connection and to provide for expansion. Bent or sprung pipe shall not be installed where shown on Drawings and where necessary to provide for expansion of piping. Cold spring hot lines one-half estimated distance of maximum expansion. Suitable pipe anchors shall be installed where shown or required.
5. Piping connections shall have unions where necessary for replacement and repair of equipment. Gate valves and controls valves shall be installed where shown and where necessary for proper operation and service.
6. Vertical piping shall be plumb and horizontal piping shall be parallel to walls and partitions. Piping shall be supported as required to prevent the transmission of noise and vibration.
7. Work shall include all pipe, fittings, offsets and requirements for the installation of piping of other work including ducts and conduit. Reducing fittings shall be used where pipe changes size. All piping shall be installed with ample clearance to center accurately in sleeves through floors, and walls and partitions.
8. Piping shall be downgraded to drain connections at low points and upgraded to vent connections at high points unless otherwise noted. Drain connections shall be valved and piped to a floor drain. Vent connections on mains shall be equipped with air vent valves fitted with a copper tube drip line extended to a drain outlet. Vent connections on branches and equipment shall be fitted with key type manual vent cocks.

9. Drain piping shall be installed from all equipment as required. The Contractor shall extend drain piping and turn down over floor drains.

## PART 2 - PRODUCTS

### 2.1 PIPING (ABOVEGROUND)

- A. All piping installed under this Section of the Specifications shall be in accordance with the following schedule.
  1. All piping, except where indicated differently, (i.e. underground piping) shall be standard weight black steel pipe Schedule 40, Grade A53, black steel. Pipe 2" and smaller, cast iron screwed fittings. Pipe 2-1/2" and larger, steel welding fittings. Pipe and fittings as manufactured by National, Wheeling, Bethlehem or equal, manufactured in accordance with ASTM current edition. All pipes must be reamed before installation.
  2. Where the Contractor elects to use copper piping, it shall be rigid Type "L" copper, Chase, Anaconda or approved equal. Fittings shall be wrought copper, Nibco, Anaconda, Mueller or approved equal. Where copper piping is used, make all additional provisions for expansion. All condensate piping shall be Type "M" copper, rigid, full size of unit drain tapping, or larger as shown on Drawings.
  3. All drainage pipe lines, 2" larger except where galvanized screw pipe is shown on the Drawings or specified hereafter, shall be extra heavy cast iron soil pipe and fittings.
- B. Piping installation shall be arranged for draining through accessible valves at low points.
- C. Threaded short and close nipples shall be Schedule 80, extra heavy weight of the same material as pipe in system in which they are installed.
- D. All bare copper pipe, tubing and fittings shall be cleaned with steel wool and all excess solder shall be removed.

### 2.2 VALVES

- A. All valves, unless specified or noted otherwise, shall be designed for a working pressure of not less than 200 p.s.i. water or 125 p.s.i. steam with name and pressure rating of valve cast in body. All valves shall be of the same manufacturer, unless specified otherwise. Valves for cut-off shall be gate valves, unless otherwise specified.
- B. All valves of same manufacturer: similar to Jenkins Bros., Walworth, Kennedy or approved equal.
- C. Four inch and larger, flanged; smaller sizes, screwed.
- D. All Gate and Globe valves shall be installed with handle in an upright position.

- E. The Contractor shall furnish and install all valves shown on Drawings and all valves that are necessary for proper operation and maintenance of systems and equipment. All piping connections to each piece of equipment and all branch connections to mains shall have cut-off valves.
- F. The following schedule of valves for steam condensate, hot water, etc. is based on Jenkins Brothers, Inc. catalog numbers (except as noted); equivalent Lukenheimer, Walworth, O-I-C, Crane Fairbanks Company valves will be acceptable.
- G. Ball Valves
  - 1. 1/4" to 2-1/2" rated for 600 p.s.i wog, with brass body, chrome plated brass ball, virgin PTFE seats, and full port with threaded or solder connections.
  - 2. 2-1/2" and larger rated for 200 p.s.i with carbon steel body, stainless steel full port ball, RTFE seats, lever operated to 4" gear operated 6" and above, with flanged end connections.
- H. Gate Valves
  - 1. Up to 2" : Bronze gate solid wedge, inside screw traveling stem union bonnet, - Fig. 47U
  - 2. 2-1/2" and 3" : Iron body, bronze-mounted gate, solid wedge, OS&Y rising stem, -Fig. 650-A
  - 3. 4" and larger: Iron body, bronze-mounted gate, solid wedge, OS&Y rising stem, - Fig. 651-A
- I. Globe Valves
  - 1. Up to 2" : Bronze body, regrinding seat ring and plug, union bonnet, -Fig. 546P
  - 2. 2-1/2" and 3" : Iron body, bronze-mounted globe and angle, regrinding disc and seat ring, OS&Y -Fig. 613
  - 3. All gate valves 6" and larger: Fitted 3/4" by-pass globe valve.
- J. Plug Valves
  - 1. Up to 2" : Lubricated, semi-steel short pattern wrench operated, -Fig. 142
  - 2. 2-1/2" and larger: Lubricated, semi-steel short pattern wrench operated, -Fig. 143
  - 3. Similar to Rockwell Mgd. Co., Jenkins, Kennedy or approved equal.

K. Butterfly Valves used for chilled water, condenser water and hot water shall be the following:

1. 2-1/2" to 12" rated for 175 p.s.i bubble tight close off, 14" and larger for 150 p.s.i close-off.
2. Full lug cast iron body, aluminum bronze disc, stainless steel stem EPDM peroxide cured seat.
3. 2-14" to 6" valves to be equipped with 10 position notch plate and lever lock handle. 8" and larger with handwheel gear operator.
4. On installation, valves to be in full open position when flange bolts are tightened and stem in a horizontal position except when equipped with a chainwheel gear operator.
5. Provide chain wheel gear operator on all valves installed 7 feet or higher.
6. Valves to be designed with replaceable seat and parts kits.
7. Valve to be Bray series 31, Dezurik 637 or Demco.

L. Check Valves

1. 150 p.s.i. WSP class.
2. Up to 2" : Bronze, regrinding bronze disc, screw-in cap, -Fig. 762A
3. 2-1/2" and 3" : Iron body, bronze mounted regrinding bronze seat ring and disc, - Fig. 623
4. 4" and larger: Iron body, bronze mounted regrinding bronze seat ring and disc, - Fig. 624

M. Drain Valves: All low points shall have drain valves, with hose ends. Where 1/2" and 3/4" sizes are indicated, "Standard" hose end drain valves shall be used. Provide brass hose end drain caps at each drain valve. Where larger than 3/4" drains are shown, gate valve shall be used. Provide brass nipples and reducer from drain valve size to 3/4" terminating with 3/4" hose end drain valve and cap.

## 2.3 FITTINGS

A. Nipples

1. All nipples shall have clean cut threads and shall be made from new pipe, standard weight for all lengths, except that close and shoulder nipples shall be extra heavy.
2. Fittings - 2-1/2 and Smaller: All fittings shall be standard weight steam pattern gray cast iron, Grinnell, Stockholm or equal approved.
3. Fitting - 3" and Larger: The Contractor has the option to use screwed, flanged or welded fittings so long as all ASME requirements are met.

## B. Joints and Unions

1. Threaded joints shall be full and clean cut. The ends of pipe shall be reamed to the full inside diameter, all burrs shall be removed and no more than three threads shall be exposed beyond fittings when made up. Joints shall be made up tight with graphite base pipe joint compound. Exposed threads of ferrous pipe shall be painted with acid-resisting paint after caulking, lampwick or other material will be allowed for correction of defective joints.
2. Flange joints shall be made up perfectly square and tight. Screwed flanges and loose flanges shall be cast iron and welding flanges shall be steel. Flanges shall be faced true and bolted up tight with 1/16" Carlock ring type gasket.
3. Bolts shall be high quality steel with hexagon nuts and heads. The Contractor shall apply grease to threads of bolt.
4. Welded joints in piping shall be by the electric or oxyacetylene process using welding rods of the characteristics similar to pipe material and as recommended by the pipe manufacturer and shall be done in accordance with the ASME Code for pressure piping. Welding shall be done by qualified welders under the requirements of the ASME Boiler and Pressure Vessel Code.
5. The pipe lengths shall be aligned with welding rings and the abutting pipe ends shall be concentric. Prior to welding, the groove and adjacent surfaces shall be thoroughly cleaned of all grease, scale, or rust. During welding, all slag, or flux remaining on the bead shall be removed before laying down the next bead. The welding metal shall be thoroughly fused with the base metal at all sections of the weld. Short lengths of pipe may be beveled on the job with oxyacetylene torch, provided all scale and oxides are removed.
6. Joints shall be butt-welded, single V-type. All fittings shall be steel welding fittings. Elbows and fittings formed with coupling or welded cut pipe sections shall not be acceptable.
7. Bonney Weldolets or welding saddles may be used for branch connections, which are less than one-half the size of the main to which they connect.
8. Ground Joint Unions, Flange Connections, Reaming & Filling Ground joint unions shall be 200 lb. s.w.p. for brass. Flanges shall be 150 lb. s.w.p. for brass, 125 lb. s.w.p. for cast iron.
9. Ground joint unions of flanges shall be used only on exposed accessible piping. Where concealed, right and left nipples and couplings must be used. Where flanged connections are used, full size gaskets must be inserted.
10. Mechanical Couplings for joining grooved carbon steel pipe equal to Victaulic ASTM 1476 will be acceptable where field conditions permit.
11. Crimped Fittings equal to "Pro-Press" will be acceptable.

- C. Threads: Shall be standard, clean cut and tapered. All piping shall be reamed free from burrs. All piping shall be kept free of scale and dirt. Caulking of threads will not be permitted. All piping shall be threaded and made up in accordance with the current edition of the ASA Standard Specifications for pipe threads.
- D. Unions
1. Unions for use on ferrous pipe 2" and smaller shall be malleable iron with brass to iron ground joint spherical seat and threaded connections. Unions 2 1/2" and over shall be flanged type with gasket.
  2. Unions for copper tubing shall be cast bronze conforming to ASA B16. The Contractor shall furnish adapters where required for copper pipe.
  3. Where copper pipe connects to ferrous pipe or metals, the Contractor shall furnish EPCO isolating type dielectric unions. Plastic type isolating bushings are not acceptable.
  4. Unions shall be installed wherever necessary for repair or replacement of equipment, valves, strainers, etc. Final connections to equipment shall be made in a manner that will permit removal without cutting of pipelines.
- E. Solder
1. All sweat joints shall be made up with lead-free solder.
  2. Solder shall be Oatey or approved equal. Flux shall be non-toxic and non-corrosive.
  3. All copper tubing ends shall be reamed, filed and cleared of burrs and rough edges. All pipes shall be reamed after cutting and threading.
- F. Expansion
1. The entire piping installation shall be installed with adequate provision for expansion. No rigid connections will be permitted.
  2. Branches shall be of sufficient length and have 3 elbow swings to allow for pipe expansion.
  3. Provide expansion joints, guides and anchors equal to "Metra-Flex MetraLoops" where indicated on Drawings or where necessary for proper expansion compensation. Submit shop drawing.
  4. Any breaks in the piping within the guarantee period due to improper provision for expansion must be replaced at the expense of this Contractor, and the conditions corrected to prevent future recurrence.
  5. Any damages to surrounding areas and equipment due to this failure shall also be repaired and paid for at the expense of the Contractor.
  6. Joints to have 150 psi rating, ANSI-B16.5 with liner and cover.

## 2.4 PIPING SLEEVES

- A. Furnish sleeves built into place for all piping passing through walls, floors or building construction. Sleeves, not less than 1/2" larger in diameter than piping and its covering, if any, and extending full depth of construction pierced. Pack sleeves through walls/floors in accordance with Underwriters' Requirements.
- B. Sleeves piercing exterior walls, integral waterproofed walls shall be standard weight steel piping. Furnish welded center flange buried in construction for sleeves through exterior walls below grade. At exterior walls, make pipes watertight in sleeves with oakum packing and caulked lead joints on both sides of wall. All other sleeves: Galvanized sheet steel with lockseam joints, #22 USSG for 3" or under. Sleeves for piping 4" and larger, #18 USSG.
- C. Pipes passing through interior membrane waterproofed floors, cast iron flashing sleeve, with integral flashing flange and clamping ring, similar to Josam Series #1880. Adjust sleeves to floor construction with steel or wrought iron pipe nipples top and bottom, extending 3" above finished floor. Burn & J.R. Smith are equal.
- D. Pipes passing through membrane waterproofed walls, cast iron flashing sleeve with internal flashing flange and clamping ring similar to Josam Series #1870. Make pipes watertight in sleeves with oakum packing and caulked lead joints. Burn & J.R. Smith are equal.
- E. For flashing sleeves specified in Pars. C and D, lead flashing extended at least 10" around flashing sleeves, securely held in place by clamping device.

## 2.5 PIPING ENCLOSURES

- A. Where concealed piping in ceilings and wall of finished spaces is not possible vertical or horizontal metal piping enclosures equal to "Sterling" model PCH (horizontal) or PCHV (vertical). Provide all required hangers, supports, corners, brackets, etc. color per Architect.

## PART 3 - EXECUTION

### 3.1 GENERAL NOTES - PIPING NOTES, DRAINING, VENTING AND MISCELLANEOUS WATER SPECIALTIES

- A. Piping shall be installed as indicated on Drawings. Elevations and dimensions are indicated as a guide only and are subject to change with actual job conditions.
- B. Except for drainage piping, which shall pitch down with flow, mains shall pitch upward or be installed dead level as indicated. Horizontal runs shall be parallel to walls.
- C. In general, all branch connections shall be top of bottom 45 degree or 90 degree, pitching up or down from mains.
- D. Where indicated, flexible connectors shall be installed. All final connections to equipment, pumps, units, etc. shall have companion flanged, flange unions or ground joint unions (125 lbs.).

- E. All piping shall be adequately supported with approved type hangers so as to prevent absolutely any sagging of lines, or any undue strain on pipes or fittings. All pipe lines shall be capped during construction to prevent entry of dirt or other foreign material. All piping lines after erection shall be blown or flushed out to render the piping system as clean as possible before system water is added for operation.
- F. Clean interior and exterior surfaces promptly after installation of equipment and components. Take care to avoid damage to protective coatings and finishes. Remove excess sealants, lubrication, dirt and other foreign substances.
- G. Comply with manufacturer's instructions and recommendations for installation of equipment, accessories and components.
- H. All heating, ventilating and air conditioning equipment shall be carefully designed, constructed and installed so as to prevent any objectionable noise or vibration reaching any part of the building outside of the mechanical equipment room. The Contractor shall be required to rectify or replace at his own expense, any equipment not complying with the foregoing requirements.

### 3.2 DRAINING

- A. All low points shall have drain valves with hose ends. Where 1/2" and 3/4" sizes are indicated, "Standard" hose end drain valves shall be used. Provide brass hose end drain caps at each drain valve. Where larger than 3/4" drains are shown, gate valve shall be used. Provide brass nipple and reducer from drain valve size to 3/4" terminating with 3/4" hose end drain valve and cap.

### 3.3 VENTING (For Hot Water)

- A. All high points in piping shall be vented automatically with float vents. At all high points of piping, whether specifically indicated or not, provide Maid-o-Mist or B&G No. 7 or 27 Air Eliminators with shut off cock, auxiliary key vent and copper tubing overflow carried to floor along wall as indicated or directed.

### 3.4 WATER SPECIALTIES

- A. Air Vents: Install at all high points automatic air vents to eliminate air binding. All automatic air vents shall be approved heavy duty type equipped with petcocks and tubing for manual venting. All vents installed in coils, etc. shall be of manual key operated type. All vents concealed from view shall be accessible through access doors. Vents shall be by Hoffman, Anderson or Bell & Gossett, 125 psig rated.
- B. Pressure Gauge: Furnish and install pressure gauges on suction and discharge sides of each pump and as required to check operation of equipment; pressure gauges shall have 4-1/2" diameter dials, Ashton, Ashcroft or approved equal.

- C. Install thermometers at all locations in piping system as noted on Drawings and as required to check system performance. Thermometers shall be installed at the supply and return of coils and 3-way diverting valves as manufactured by Trerice, Weksler or Moeller, with 4-1/2 inch face, cast aluminum case, chrome plated steel ring, white background with black embossed markings, glass window, stainless steel pointer, brass movement, 316 stainless steel bulb. Provide separable, universal angle sockets for all thermometers.

END OF SECTION 230410

**Rye City Schools****Milton Elementary School****10 Hewlett Street, Rye, NY 10580**

SED Number: # 6618-0001-0002-015

Issued for Bid: 2021-01-19

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**Milton Elementary School**  
**10 Hewlett Street, Rye, NY 10580**

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**Milton Elementary School**  
**10 Hewlett Street, Rye, NY 10580**

SED Number: # 6618-0001-0002-015

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**SECTION 084113**  
**ALUMINUM-FRAMED ENTRANCES & STOREFRONTS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Aluminum Entrance Doors, including:
- B. Related Sections:
  - 1. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 2. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 084413.1, 084413.2, Glazed Aluminum Curtain Wall.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

- A. Performance Requirements: Provide aluminum swing doors that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test methods indicated.
  - 1. Air Infiltration (Single Acting Butt Hinges, Continuous Hinges, or Offset Pivots): Air infiltration shall be tested in accordance with ASTM E 283 at static pressure of 1.57 PSF (75 Pa). Infiltration shall not exceed 0.50 CFM/FT<sup>2</sup> for single door or 1.00 CFM/FT<sup>2</sup> for pair doors.
  - 2. Structural: Door corner structural strength shall be tested per YKK AP's dual moment test procedure and certified by an independent testing laboratory to ensure corner integrity and weld compliance. Certified test procedures and results are available upon request.
  - 3. Structural Uniform Load Test:
    - a. Single Doors: ± 50 psf.
    - b. Pair of Doors: ± 33 psf.
  - 4a. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and AAMA 507 based on Standard 1" insulating unit:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 4b. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and NFRC 102 based on 1-1/2" clear high performance insulating glass, 1/4" Cardinal E366 Low-E (e=0.022\*, #2) Annealed, 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 0.050" HM88 SWT Film (e=0.110, #3/0.105\*, #4), 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 1/4" Clear Annealed having a center of glass U-factor of 0.14 BTU/hr/SF/°F:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 5. Acoustical Performance: Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 1" IGU; 33, laminated; 36.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 29, 1" laminated; 32.
  - 6. Forced Entry Resistance: 300 lbs. satisfactory.

**1.03 PROJECT CONDITIONS / SITE CONDITIONS**

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

*Rye City School District  
Milton Elementary School*

**ALUMINUM FRAMED ENTRANCES & STOREFRONTS**

**084113 - 1**

## 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Product Data: Submit product data for each entrance series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, and finish colors.
- E. Samples: Submit verification samples for colors. Minimum 2-1/2 inch by 3 inch (61 mm by 73 mm) samples on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  - 1. Warranty: Submit executed warranty documents specified herein, endorsed by YKK AP authorized official and installer.
  - 2. Project Record Documents: Submit project record documents, including operation and maintenance data for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.
    - a. Maintenance Data: Maintenance procedures for care and cleaning of entrance systems.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size:
  - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers)

A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000

1. Wausau Metals
2. Kawneer

1. MegaTherm® XT Entrance Doors:
2. Medium Stile Swing Doors: YKK AP Series 35XT Medium Stile Entrance.
  - a. Description: 2-3/8" (60.3 mm) thick by 3-1/2" (88.9 mm) wide Door Stile
3. Corner Construction: Fabricate door corners joined by concealed reinforcement secured with screws, and sigma deep penetration welding.
4. Glazing Stops: Manufacturer's standard snap-in glazing stops with EPDM glazing gaskets to prevent water infiltration.
5. Weather-stripping: Manufacturer's standard pile type in replaceable rabbets for stiles; manufacturer's standard EPDM bulb type for door frames.
6. Hardware: Manufacturer's standard as selected by Architect.

### 2.02 MATERIALS

A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.

B. Aluminum Sheet:

1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050" (1.27 mm) minimum thickness.
2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.

### 2.03 ACCESSORIES

A. Manufacturer's Standard Accessories:

1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
2. Sealant: Non-skinning type, AAMA 803.3.
3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

### 2.04 RELATED MATERIALS (Specified In Other Sections)

A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

### 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with uniform hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.
  - 1. Hardware: Drill and cut to template for hardware. Reinforce frames and door stiles to receive hardware in accordance with manufacturer's recommendations.
  - 2. Welding: Conceal welds on aluminum members in accordance with AWS recommendations or methods recommended by manufacturer. Members showing welding bloom or discoloration on finish or material distortion will be rejected.

## 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:
  - 1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with procedures and meeting AAMA 2605 specifications.
  - 2. Colors: Selected by Architect from the following:
    - a. Standard coating color charts.
  - 3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- D. Finishes Testing:
  - 1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
  - 2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions and approved shop drawings.

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.
  - 1. Verify location of preset anchors, perimeter fasteners, and block-outs are in accordance with shop drawings.

### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
  - 1. Aluminum Surface Protection: Protect aluminum surfaces from contact with lime, mortar, cement, acids, and other harmful contaminants.

### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
  - 1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
  - 2. Shim and brace aluminum system before anchoring to structure.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect the installed product's finish surfaces from damage during construction.

END OF SECTION

**SECTION 084413.1**  
**GLAZED ALUMINUM CURTAIN WALLS**

**PART 1 GENERAL**

**1.01 SUMMARY**

A. Section Includes: Glazed Aluminum Curtain Walls:

B. Related Sections:

1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
3. Single Source Requirement: All products listed below shall be by the same manufacturer.
  - a. Section 08 41 13 Aluminum-Framed Entrances and Storefronts.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

A. Performance Requirements: Provide aluminum curtain wall systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.

1. Risk Category IV
2. Air Infiltration: Completed curtain wall systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
3. Water Infiltration:
  - a. No uncontrolled water on indoor face of any component when tested in accordance with ASTM E 331 at a static pressure of 15 PSF (718 Pa).
4. Optional Incidental Water Management: Head member shall be capable of directing condensation from the wall cavity above the curtain wall to the exterior of the system.
5. Wind Loads: Completed curtain wall system shall withstand wind pressure loads per local code requirements.

Submit Sealed Structural Calculations from a NY licensed Engineer for review.
6. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
  - a. For spans up to 13'-6" (4.1m): L/175 maximum.
  - b. For spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m): L/175 or L/240 + 1/4" (6.4mm).
7. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
8. Thermal Performance tested in accordance with AAMA 1503:
  - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 75.

b. Thermal Transmittance U Value: 0.41 BTU/HR/FT<sup>2</sup>/°F

### 1.03 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with “Conditions of the Contract” and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in “Conditions of the Contract.”
- B. Product Data: Submit product data for each type curtain wall series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  - 1. Warranty: Submit warranty documents specified herein.
  - 2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

### 1.04 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner’s and Architect’s acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size:
  - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner’s approval..
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions, and manufacturer’s warranty requirements.

## 1.05 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

## 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  - 1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000
  - 1. Wausau Metals
  - 2. Kawneer
- 1. Curtain Wall System: YKK AP YCW 752 OGP Aluminum Curtain Wall System.
- B. Curtain Wall Framing System:
  - 1. Description: Framing shall be thermally improved. Horizontal and vertical framing members shall have a nominal face dimension of 2-1/2 inches. Depth as indicated on drawings. Framing system shall provide a flush glazed appearance on all sides with no protruding glass stops.

### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 and 6063-T6 Aluminum Alloys.
- B. Aluminum Sheet:
  - 1. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.
- C. Thermal Barrier: Provide continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non-structural thermal barriers are not acceptable.

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.

2. Sealant: System sealants selected by installer are to be permanently elastic, non-shrinking, non-migrating type recommended by sealant manufacturer for joint size, movement, and compatibility.
3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

#### 2.04 RELATED MATERIALS (Specified In Other Sections)

- A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

#### 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

#### 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:

1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with manufacturer, procedures and meeting AAMA 2605 specifications.
2. Colors: Selected by Architect from the following:
  - a. Standard coating color charts.
3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

- D. Finishes Testing:

1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
2. Submit samples with test area noted on each sample.

### PART 3 EXECUTION

#### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions. The latest Installation Manual can be found at [www.ykkap.com](http://www.ykkap.com).

#### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

#### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

#### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.

1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
2. Shim and brace aluminum system before anchoring to structure.
3. Verify curtain wall system allows water entering system to be collected in gutters and wept to the exterior. Verify weep holes are open, and metal joints are sealed in accordance with manufacturers installation instructions.
4. System Perimeter Seals: Refer to Division 7 joint treatment section for sealant requirements.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of curtain wall system. Conduct test in accordance with AAMA 501.2.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 084413.2

**Rye City Schools**

**Rye High School/Middle School**

**1 Parsons Street Rye, NY 10580**

SED Number: # 6618-0001-0005-032

Issued for Bid: 2021-01-19

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## **SECTION 020800 – ASBESTOS ABATEMENT**

AT: RYE CITY SCHOOL DISTRICT  
RYE HIGH SCHOOL/MIDDLE SCHOOL  
SED# 66180001-0005-032

OWNER: RYE CITY SCHOOL DISTRICT  
555 THEODORE FREMD AVENUE, SUITE B-101  
RYE, NEW YORK 10580

CONSULTANT: QUALITY ENVIRONMENTAL SOLUTIONS  
& TECHNOLOGIES, INC.  
1376 ROUTE 9  
WAPPINGERS FALLS, NEW YORK 12590



**SPECIFICATION DATED: January 19, 2021**

**ADDENDUM 1 DATED: January 29, 2021**

**ADDENDUM 3 DATED: February 11, 2021**

Design conforms to all applicable provisions of the NYS Uniform Fire Prevention and Building Code, NYS Energy Conservation Construction Code and Education Department Building Standards.

## SECTION 020800 – ASBESTOS ABATEMENT PROCEDURES

### PART I – GENERAL

#### 1.01 DESCRIPTION

- A. All work under this contract shall be performed in strict accordance with the specifications and all applicable laws for asbestos removal projects. The Abatement Contractor shall furnish all labor, materials, supervision, services, insurance and equipment necessary for the complete and total removal of Asbestos-containing Materials (ACM) as described herein, in attachments to the specification, Job Specific Variance(s) and/or as directed by Rye CSD (here-in-after the "Owner") and/or the Owners Representative(s) to support ***Rye CSD: 2019 Capital Bond Project Phase II*** ☐ ***Rye High School/Middle School***.
- B. Abatement Contractor shall provide for personnel air monitoring to satisfy OSHA regulation 29 CFR Parts 1926.1101(f). All work performed shall be in strict accordance with applicable provisions and regulations promulgated under New York State Department of Labor, Industrial Code 56 (ICR-56).
- C. The Abatement Contractor shall satisfy the requirements for asbestos projects issued by the New York State Department of Labor concerning licensing and certification; notification; equipment; removal and disposal procedures; engineering controls; work area preparation; decontamination and clean-up procedures; and personnel air monitoring.
- D. The Abatement Contractor shall be responsible for submittal of asbestos project notification(s) and applicable fees to EPA and NYSDOL concerning this project. Project notification(s) shall be made for the cumulative total of ACM to be removed as required by ICR-56-3.4. Work practices for each individual work area established shall be consistent with the quantity of ACM contained within that work area as defined in ICR-56-2.
- E. The scope of work under this contract shall include the following:
  - 1. All asbestos-containing materials (ACM) shall be removed in accordance with these specifications. The Abatement Contractor is responsible for field verification of estimated quantities, locations and other site conditions that may affect work.
  - 2. All fixed objects remaining within the work area(s) shall be protected as required by Title 12 NYCRR Section 56-7.10(b) and as described in these specifications.
  - 3. The containerization, labeling and disposal of all asbestos waste in accordance with applicable city, state and federal regulations and these specifications.
  - 4. The Abatement Contractor will be responsible for repairing all building components damaged during abatement including, but not limited to, ceiling tiles, ceiling finishes, wall finishes and/or floor finishes, etc.
  - 5. The Abatement Contractor shall be responsible for any and all demolition required to access materials identified in scope of work and on associated drawings.

6. Concealed conditions that are exposed and may require additional work shall be brought to the attention of the Owner(s) immediately. The Abatement Contractor shall not abate these areas without a written notice to proceed. If the Abatement Contractor removes additional asbestos prior to the order to proceed the additional work will not be acknowledged.
7. Permissible working hours shall be Monday through Friday 7:00 A.M. to 4:00 P.M. and/or as defined by the Owner(s) and/or Owner's Representative(s). Holidays shall be considered weekends and not included for working days. Upon written approval from the Owner, the Abatement Contractor may work past these hours. The Abatement Contractor will incur any and all costs associated for work performed beyond the defined schedule including, but not limited to: abatement activities, project/air monitoring, custodial/staffing labor, overtime, mobilizations, etc.
8. Buildings will be turned over to the Abatement Contractor as is. At that time, all electrical services and HVAC systems in the proposed work areas will be shut down. Electricity and water supply will be maintained in the building for use by the Abatement Contractor. The Abatement Contractor is responsible for securing all power in the work area(s) and establishing all temporary GFCI hookups necessary to complete his work.
9. The Abatement Contractor shall remove all identified Asbestos-containing Materials (ACM) to building substrate(s); in areas indicted. Subsequent to final air clearances, the substrate(s) shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering and eliminate residual odors.
10. The Abatement Contractor must coordinate location of waste containers with the Facility and the Owner. Deliveries and storage of equipment must be coordinated with the Facility and the Owner.
11. All "Large" and "Small" asbestos abatement projects, as defined by 12 NYCRR56 shall not be performed while the building is occupied. The term "building" means a wing or major section of a building that can be completely isolated from the rest of the building with sealed non-combustible construction. The isolated portion of the building must contain exists that do not pass through the occupied portion(s) and ventilation systems must be physically separated and sealed at the isolation barriers.

## **1.02 PRE-CONTRACT SUBMITTALS**

Within three (3) days after bids are opened, the three (3) apparent low bidders shall be required to submit the following documentation:

A. Resume's: Shall include the following:

1. Provide a list of projects of similar nature performed within the past two (2) years and include the dollar value of all projects. Provide project references to include owner, consultant, and air monitoring firms' name, contact person, address, and phone number, include location of project and date of completion.
2. Abatement Contractor license issued by New York State Department of Labor for asbestos work in accordance with ICR-56-3.

3. A list of owned equipment available to be used in the performance of the project.
4. The number of years engaged in asbestos removal.
5. An outline of the worker training courses and medical surveillance program conducted by the Abatement Contractor.
6. A standard operating procedures manual describing work practices and procedures, equipment, type of decontamination facilities, respirator program, special removal techniques, etc.
7. Documentation to the satisfaction of the Owner pertaining to the Abatement Contractor's financial resources available to perform the project. Such data shall include, but not be limited to, the firm's balance sheet for the last fiscal year.

**B. Citations/Violations/Legal Proceedings**

1. Submit a notarized statement describing any citations, violations, criminal charges, or legal proceedings undertaken or issued by any law enforcement, regulatory agency, or consultant concerning performance on previous asbestos abatement contracts. Briefly describe the circumstances citing the project and involved persons and agencies as well as the outcome of any actions.
2. Answer the question: "Has your firm or its agents been issued a Stop Work order on any project within the last two years?" If "Yes" provide details as discussed above.
3. Answer the question: "Are you now, or have you been in the past, a party to any litigation or arbitrations arising out of your performance on Asbestos Abatement Contracts?" If "Yes" provide details as discussed in 1. above.
4. Describe any liquidated damages assessed within the last two years.

**C. Preliminary Schedule**

1. Provide a detailed schedule including work dates, work shift times, estimate of manpower to be utilized and the start and completion date for completion of each major work area.

**1.03 DOCUMENTATION**

- A.** The Abatement Contractor shall be required to submit the following and receive the Consultant's approval prior to commencing work on this project:
1. Provide documentation of worker training for each person assigned to the project. Documentation shall include copies of each workers valid New York State asbestos handler certificates (for those employees who may perform asbestos removal), documentation of current respirator fit test and current OSHA required training and medical examination.
  2. The attached "Asbestos Employee Medical Examination Statement" and "Asbestos Employee Training Statement" forms shall be completed, signed and submitted for each worker assigned to

the project. Records of all employee training and medical surveillance shall be maintained for at least forty (40) years. Copies of the records shall be submitted to the Consultant prior to commencement.

3. The Abatement Contractor shall submit proof of a current, valid license issued by the New York State Department of Labor pursuant to the authority vested in the Commissioner by section 906 of the Labor Laws, and that the employees performing asbestos related work on this project are certified by the State of New York as required in Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York latest edition. Copies of all licenses shall be submitted prior to the commencement of the project.
4. The Abatement Contractor shall submit a written respiratory protection program meeting the requirements of 29 CFR 1910.134 to the Consultant.
5. The name, address, social security number and NYS DOL certificate number of the person(s) who will supervise the asbestos project.
6. The name and address of the deposit or waste disposal site or sites where the asbestos materials are to be deposited or disposed of. This site must be approved by the Owner. The manifesting procedure must also be specified.
7. The name, address and New York State Dept. of Environmental Conservation ID Number of any transporters that are to be used to transport waste.
8. A written Standard Operation Procedure (SOP) that is designed and implemented to maximize protection against human exposure to asbestos dust. The SOP shall take into consideration the workers, visitors, building employees, general public and environment. As a minimum the procedures must include the following:
  - a. Security for all work areas on an around-the-clock basis against unauthorized access.
  - b. Project organization chart including the phone numbers of at least two responsible persons who shall be authorized to dispatch men and equipment to the project in the event of an emergency; including weekends.
  - c. Description of protective clothing and NIOSH approved respirators to be used.
  - d. Description of all removal methods to be used, including HEPA air filtration and decontamination sequence with special emphasis on any procedure that may deviate from these specifications.
  - e. A list of manufacturers' certificates stating that all vacuums, negative air filtration equipment, respirators and air supply equipment meet OSHA and EPA requirements.
  - f. A list of all materials proposed to be furnished and used under this contract.
  - g. Emergency evacuation procedures in the event of fire, smoke or accidents such as injury from falling, heat exposure, electrical shock, etc.

- h. The name, address and ELAP number of the New York State Department of Health Certified Analytical Testing Laboratory the Contractor proposes to use for the OSHA monitoring.
- 9. A detailed plan, in triplicate, for the phasing of the project, division of work areas and location of decontamination facilities, waste containers and temporary office.
- 10. Work schedule, identifying firm dates and completion for actual areas. Bar chart or critical path chart indicating phases is required.
- B. The Abatement Contractor shall post their NYS DOL contractor's license and maintain a daily log documenting the dates and time of the following items within each personal decontamination unit:
  - 1. Meetings; purpose, attendants, discussion (brief)
  - 2. Sign-in and sign-out of all persons entering the work area including name, date, time, social security number, position or function and general description of daily activity.
  - 3. Testing of barriers and enclosure systems using smoke tubes prior to the beginning of abatement activities and at least once a day thereafter until satisfactory clearance air monitoring results have been achieved.
  - 4. Inspection of all plastic barriers, twice daily, by the asbestos supervisor.
  - 5. Loss of enclosure integrity; special or unusual events, barrier breaches, equipment failures, etc.
  - 6. Daily cleaning of enclosures.
  - 7. Personnel air monitoring test results for OSHA Compliance. Results shall be posted at the work site within 24 hours of testing and copies supplied to the Owner within five (5) days of testing. Abnormalities shall be supplied to the Owner immediately.
- C. Documentation with confirmation signature of Consultant's representative of the following shall be provided by the Abatement Contractor at the final closeout of the project.
  - 1. Testing of barriers and enclosure systems using smoke tubes shall be performed prior to the beginning of abatement activities and at least once a day thereafter until satisfactory clearance air monitoring results have been achieved.
  - 2. Inspection of all plastic barriers.
  - 3. Removal of all polyethylene barriers.
  - 4. Consultant's inspections prior to encapsulation.
  - 5. Removal of waste materials.
  - 6. Decontamination of equipment (list items).
  - 7. Consultant's final inspection/final air tests.

D. The Abatement Contractor shall provide records of all project information, to include the following which shall be submitted upon completion of the project and prior to approval of the Abatement Contractor's payment application:

1. The location and description of the abatement project.
2. The name, address and social security number of the person(s) who supervised the asbestos project.
3. Certified payroll documentation Pursuant to Article 8, Section 220 of the NYS Labor Law
4. Copies of EPA/NYS DOL Asbestos Certificates for all Workers and Supervisors employed on the Project.
5. Copies of Medical Approval and Respirator Fit-testing for all Asbestos Workers and Supervisors employed on the Project.
6. Copies of Abatement Contractors Daily Sign-In Sheets & Logs for persons entering and leaving the work area. – Title 12 NYCRR Part 56-7.3.
7. Copies of Abatement Contractor's personal air sampling laboratory results.
8. The amounts and type of asbestos materials that was removed, enclosed, encapsulated, or disturbed.
9. The name and address of the deposit or waste disposal site or sites where the asbestos waste materials were deposited or disposed of and all related manifests, receipts and other documentation associated with the disposal of asbestos waste.
10. The name and address of any transporters used to transport waste and all related manifests, receipts and other documentation associated with the transport of asbestos waste.
11. All other information that may be required by state, federal or local regulations.
12. Copy of the Supervisor's Daily Project Log of events as described in 1.03 B, above.

#### **1.04 NOTIFICATIONS AND PERMITS**

A. The Abatement Contractor shall be required to prepare and submit notifications to the following agencies at least ten (10) days and/or business days, as required prior to the commencement of the project:

1. Asbestos NESHAPS Contact  
U.S. Environmental Protection Agency  
NESHAPS Coordinator, Air Facilities Branch  
26 Federal Plaza  
New York, New York 10007  
(212) 264-7307

2. State of New York Department of Labor  
Division of Safety and Health  
Asbestos Control Bureau  
State Office Building Campus, Building 12, Room 454  
Albany, New York 12240
3. Owner(s): Rye CSD  
555 Theodore Fremd Avenue, Suite B-101  
Rye, NY 10580  
ATTN: Robert Gimigliano, Director of Facilities & Operations  
Ph. (914) 967-6100  
Fx. (914) 967-6957  
E-mail. [Gimigliano.Robert@ryeschools.org](mailto:Gimigliano.Robert@ryeschools.org)
4. Environmental Consultant(s): Quality Environmental Solutions & Technologies, Inc. (QuES&T)  
1376 Route 9  
Wappingers Falls, New York 12590  
ATTN: Anthony Perre  
Ph. (845) 298-6031  
Fx. (845) 298-6251  
E-mail. [aperre@qualityenv.com](mailto:aperre@qualityenv.com)

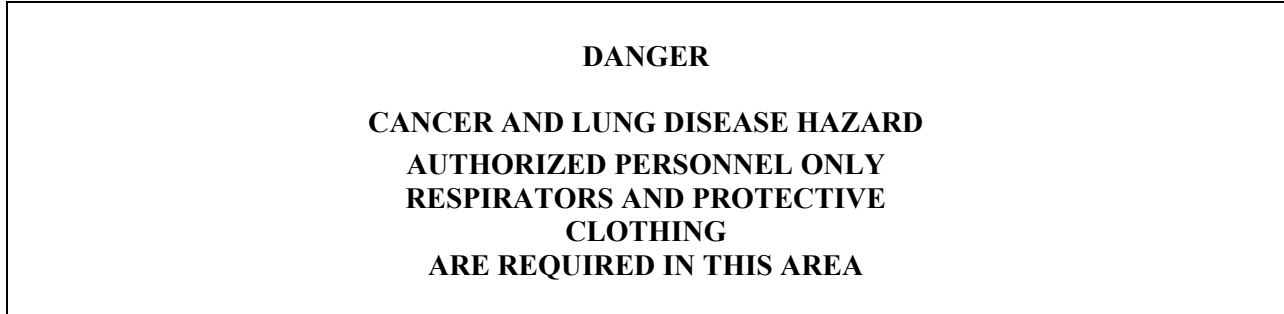
B. The notification shall include but not be limited to the following information:

1. Name and address of Owner.
2. Name, address, and asbestos handling license number of the Abatement Contractor.
3. Address and description of the building, including size, age, and prior use of the building or area; the amount, in square feet or linear feet of asbestos material to be removed; room designation numbers or other local information where asbestos material is found, including the type of asbestos material (friable or non-friable).
4. Scheduled starting and completion dates for removal.
5. Methods to be employed in abating asbestos containing materials.
6. Procedures and equipment, including ventilating/exhaust systems, that will be employed to comply with the Code of Federal Regulation (CFR) Title 40, Part 61 of the U.S. Environmental Protection Agency.
7. The name and address of the carting company and of the waste disposal site where the asbestos waste will be deposited.

**NOTE:** Notifications shall be submitted using standard forms as may be used by the respective agency.

For DOL (NYS) include "Asbestos Project Notification" form (DOSHS-483) with proper fee, if required. For EPA include "Notification of Demolition and Renovation"; 40 CFR Part 61.

- C. The Abatement Contractor shall secure any permits required by the city, town, county, or state that may be required and the cost for obtaining the permit shall be included in his base bid.
- D. The Abatement Contractor shall erect warning signs around the work space at every point of potential entry into the work area in accordance with OSHA 1926.58k (2), (i). These signs shall bear the following information:



- E. The Abatement Contractor shall post at entrances to the work place and immediate adjacent areas, notifications to building occupants which include the name and license number of the contractor, project location and size, amount and type of ACM, abatement procedures, dates of expected occurrence and name and address of the air monitor and laboratory in compliance with ICR 56-3.6.
- F. The Abatement Contractor shall post a list of emergency telephone numbers at the job site which shall include the Owner's Representative, police, emergency squad, local hospital, Environmental Protection Agency, N.Y. State Department of Labor, Occupational Safety and Health Administration and the local Department of Health.

#### **1.05 APPLICABLE STANDARDS**

Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, applicable standards of the construction industry have the same force and effects (and are made a part of contract documents by reference) as if copied directly into contract documents, or as if published copies were bound herewith. Resolution of overlapping and conflicting requirements, which result from the application of several different industry standards to the same unit of work, shall be by adherence to the most stringent requirement.

- A. Applicable standards listed in these Specifications form a part of this Specification and include, but are not necessarily limited to, standards promulgated by the following agencies and organizations:

- 1. ANSI:

- American National Standards Institute
  - 1430 Broadway
  - New York, New York 10018

2. ASHRAE:  
American Society for Heating, Refrigerating  
and Air Conditioning Engineers  
1791 Tullie Circle NE  
Atlanta, Georgia 30329
3. ASTM:  
American Society for Testing and Materials  
1916 Race Street  
Philadelphia, Pennsylvania 19103
4. CFR  
Code of Federal Regulations Available  
from Government Printing Office  
Washington, District of Columbia 20402
5. CGA  
Compressed Gas Association  
1235 Jefferson Davis Highway  
Arlington, Virginia 22202
6. CS  
Commercial Standard of NBS  
(US Dept. of Commerce)  
Government Printing Office
7. EPA  
Environmental Protection Agency, Region II  
26 Federal Plaza  
New York, New York 10007  
Asbestos Coordinator - Room 802  
(212) 264-9538  
Part 61, Sub-Parts A & B  
National Emission Standard for Asbestos
8. FEDERAL SPECS  
Federal Specification (General Services Administration)  
7th and D Street, SW  
Washington, District of Columbia 20406
9. NBS  
National Bureau of Standards  
(US Department of Commerce)  
Gaithersburg, Maryland 20834
10. NEC  
National Electrical Code (by NFPA)
11. NFPA

National Fire Protection Association  
Batterymarch Park  
Quincy, Massachusetts 02269

12. NIOSH

National Institute for Occupational Safety and Health  
26 Federal Plaza  
New York, New York 10007

13. NYSDOH

New York State Department of Health  
Bureau of Toxic Substance Assessment  
Room 359 - 3rd Floor  
Tower Building Empire State Plaza  
Albany, New York 12237

14. NYSDEC

New York State Department of Environmental Conservation  
Room 136  
50 Wolf Road  
Albany, New York 12233-3245

15. NYSDOL

State of New York Department of Labor  
Division of Safety and Health  
Asbestos Control Program  
State Campus  
Building 12  
Albany, New York 12240

16. OSHA

Occupational Safety and Health Administration  
(US Department of Labor)  
New York Regional Office - room 3445  
1515 Broadway  
New York, New York 10036

17. UL

Underwriters Laboratories  
333 Pfingsten Road  
Northbrook, Illinois 60062

B. Federal Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:

1. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA):

a. Asbestos Regulations

Title 29, Part 1910, of the Code of Federal Regulations.

- b. Respiratory Protection  
Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
  - c. Construction Industry  
Title 29, Part 1926, of the Code of Federal Regulations.
  - d. Access to Employee Exposure & Medical Records  
Title 29, Part 1910, Section 20 of the Code of Federal Regulations.
  - e. Hazard Communication  
Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
  - f. Specifications for Accident Prevention Signs and Tags  
Title 29, Part 1910, section 145 of the Code of Federal Regulations.
2. U.S. Environmental Protection Agency (EPA):
- a. Asbestos Hazard Emergency Response Act (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Subpart E of the Code of Federal Regulations.
  - b. Worker Protection Rule  
40 CFR Part 763, Subpart G, CPTS 62044, FLR 2843-9  
Federal Register, Vol. 50, No. 134, 7/12/85, P28530-28540
  - c. Regulation for Asbestos  
Title 40, Part 61, Subpart A of the Code of Federal Regulations
  - d. National Emission Standard for Asbestos  
Title 40, Part 61, Subpart M (Revised Subpart B) of the Code of Federal Regulations
  - e. Resource Conservation and Recovery Act (RCRA) 1976, 1980  
Hazardous and Solid Waste Amendments (HSWA) 1984  
Subtitle D, Subtitle C
3. U.S. Department of Transportation (DOT):
- a. Hazardous Substances: Final Rule Regulation 49 CFR, Part 171 and 172.
- C. State Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:
- 1. New York State Department of Environmental Conservation (DEC) Regulations regarding waste collection registration. Title 6, Part 364 of the New York State Official Compilation of Codes, Rules and Regulations - 6NYCRR 364.
  - 2. New York State Right-To-Know Law

3. New York State Department of Labor Asbestos Regulations Industrial Code Rule 56.
  4. New York State Department of Health, Title 10 Part 73 Asbestos Safety Program Requirements.
- D. Standards: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:
1. American National Standards Institute (ANSI)
    - a. Fundamentals Governing the Design and Operation of Local Exhaust Systems  
Publication Z9.2-79
    - b. Practices for Respiratory Protection  
Publication Z88.2-80
- E. Guidance Documents: Those that discuss asbestos abatement work or hauling and disposal of asbestos waste materials are listed below only for the Abatement Contractor's information. These documents do not describe the work and are not a part of the work of this contract.
- EPA:
1. Guidance for Controlling Asbestos Containing Materials in Buildings (Purple Book)  
EPA560/5-85-024.
  2. Asbestos Waste Management Guidance EPA 530-SW-85-007.
- F. Patents and Royalties: The Abatement Contractor shall pay all royalties and/or license fees. The Abatement Contractor shall defend all suits and claims for infringement of any patent rights and save the Owner and Consultant harmless from loss including attorney fees on account thereof.

## 1.06 DEFINITIONS

As used in or in connection with these specifications the following are terms and definitions.

**Abatement** - Procedure to control release from asbestos material. This includes removal, encapsulation and enclosure.

**Aggressive sampling** - A method of sampling in which the person collecting the air sample creates activity by the use of mechanical equipment during the sampling period to stir up settled dust and simulate activity in that area of the building.

**AIHA** - The American Industrial Hygiene Association, 475 Wolf Ledges Parkway, Akron, Ohio 44311.

**Airlock** - A system for permitting entrance and exit while restricting air movement between a containment area and an uncontaminated area. It consists of two curtained doorways separated by a distance of at least three feet such that one passes through one doorway into the airlock,

allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

**Air sampling** - The process of measuring the content of a known volume of air collected during a specific period of time.

**Amended water** - Water to which a surfactant has been added.

**Approved asbestos safety program** - A program approved by the Commissioner of Health providing training in the various disciplines that may be involved in an asbestos project.

**Area air sampling** - Any form of air sampling or monitoring where the sampling device is placed at some stationary location.

**Asbestos** - Any naturally occurring hydrated mineral silicate separable into commercially usable fibers, including chrysotile (serpentine), amosite (cumingtonite-gunerite), crocidolite (riebeckite), tremolite, anthophyllite and actinolite.

**Asbestos contract** - An oral or written agreement contained in one or more documents for the performance of work on an asbestos project and includes all labor, goods and service.

**Asbestos handler** - An individual who installs, removes, applies, encapsulates, or encloses asbestos or asbestos material, or who disturbs friable asbestos. Only individuals certified by NYS Department of Labor shall be acceptable for work under this specification.

**Asbestos handling certificate** - A certificate issued by the Commissioner of Labor of the State of New York, to a person who has satisfactorily completed an approved asbestos safety program.

**Asbestos project** - Work undertaken by a contractor which involves the installation, removal, encapsulation, application or enclosure of any ACM or the disturbance of friable ACM.

**Asbestos Safety Technician (AST)** - Individual designated to represent the Consultant, perform third party monitoring and perform compliance monitoring at the job site during the asbestos project.

**Asbestos waste material** - Asbestos material or asbestos contaminated objects requiring disposal.

**Authorized visitor** - The building owner, his or her representative or any representative of a regulatory or other agency having jurisdiction over the project.

**Background level monitoring** - A method used to determine ambient airborne concentrations inside and outside of a building or structure prior to starting an abatement project.

**Building owner** - The person in whom legal title to the premises is vested unless the premises are held in land trust, in which instance Building Owner means the person in whom beneficial title is vested.

**Clean room** - An uncontaminated area or room that is a part of the personal decontamination enclosure with provisions for storage of persons' street clothes and protective equipment.

**Cleanup** - The utilization of HEPA vacuuming to control and eliminate accumulations of asbestos material and asbestos waste material.

**Clearance air monitoring** - The employment of aggressive sampling techniques with a volume of air collected to determine the airborne concentration of residual fibers upon conclusion of an asbestos abatement project.

**Commissioner** - Commissioner of the New York State Department of Labor.

**Contractor** - A company, unincorporated association, firm, partnership or corporation and any owner or operator thereof, which engages in an asbestos project or employs persons engaged in an asbestos project.

**Curtained doorway** - A device that consists of at least three overlapping sheets of plastic over an existing or temporarily framed doorway. One sheet shall be secured at the top and left side, the second sheet at the top and right side, and the third sheet at the top and the left side. All sheets shall have weights attached to the bottom to insure that the sheets hang straight and maintain a seal over the doorway when not in use.

**Decontamination enclosure system** - A series of connected rooms, separated from the work area and from each other by air locks, for the decontamination of persons, materials, equipment, and authorized visitors.

**Encapsulant (sealant) or encapsulating agent** - A liquid material that can be applied to asbestos material and which prevents the release of asbestos from the material by creating a membrane over the surface.

**Enclosure** - The construction of airtight walls, ceilings and floors between the asbestos material and the facility environment, or around surfaces coated with asbestos materials, or any other appropriate procedure that prevents the release of asbestos materials.

**Equipment room** - A contaminated area or room that is part of the personal decontamination enclosure system with provisions for the storage of contaminated clothing and equipment.

**Fixed object** - A unit of equipment, furniture or other fixture in the work area which cannot be readily removed from the work area.

**Friable Asbestos Material** - That condition of crumbled, pulverized, powdered, crushed or exposed asbestos capable of being released into the air by hand pressure.

**Friable material containment** - The encapsulation or enclosure of any friable asbestos material.

**Glovebag technique** - A method for removing asbestos material from heating, ventilating, and air conditioning (HVAC) ducts, piping runs, valves, joints, elbows, and other nonplanar surfaces in a noncontained work area. The glovebag assembly is a manufactured device consisting of a glovebag constructed of at least six mil transparent plastic, two inward-projecting longsleeve gloves, which may contain an inward projecting waterwand sleeve, an internal tool pouch, and an attached, labeled receptacle or portion for asbestos waste.

The glovebag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and to contain all asbestos fibers released during the abatement process.

**HEPA filter** - A high efficiency particulate air filter capable of trapping and retaining 99.97 percent of particulate greater than 0.3 microns equivalent aerodynamic diameter.

**HEPA vacuum equipment** - Vacuuming equipment with a high efficiency particulate air filtration system.

**Holding area** - A chamber in the waste decontamination enclosure located between the washroom and an adjacent uncontaminated area.

**Homogeneous work area** - A site within the abatement work area that contains one type of asbestos material and where one type of abatement is used.

**Large asbestos project** - An asbestos project involving the installation, removal, disturbance, enclosure, or encapsulation of 160 square feet or more of asbestos or asbestos material or 260 linear feet or more of asbestos or asbestos material.

**Minor asbestos project** - An asbestos project involving the installation, removal, disturbance, enclosure, or encapsulation of 10 square feet or less of asbestos or asbestos material, or 25 linear feet or less of asbestos or asbestos material.

**Movable object** - A unit of equipment, furniture or fixture in the work area that can be readily removed from the work area.

**Negative air pressure equipment** - A local exhaust system equipped with HEPA filtration. The system shall be capable of creating and maintaining a negative pressure differential between the outside and the inside of the work area.

**Non-asbestos material** - Any material containing one percent or less asbestos by weight.

**Occupied area** - Any frequented portion of the work site where abatement is not taking place.

**Outside air** - The air outside the building or structure.

**Personal air monitoring** - A method used to determine an individual's exposure to airborne contaminants. The sample is collected outside the respirator in the person's breathing zone.

**Plasticize** - To cover floors, walls, ceilings and other surfaces with 6 mil fire retardant plastic sheeting as herein specified.

**Project** - Any form of work performed in connection with the abatement of asbestos or alteration, renovation, modification or demolition of a building or structure that may disturb asbestos or asbestos material.

**Removal** - The stripping of any asbestos material.

**Repair** - Corrective action using required work practices to control fiber release from damaged areas.

**Respiratory protection** - Respiratory protection required of licensed asbestos workers and authorized visitors in accordance with the applicable laws.

**Satisfactory clearance air monitoring results** - For all post- abatement samples, airborne concentrations of total fibers that are less than 0.01 fibers per cubic centimeter or background levels, whichever are greater, using phase contrast microscopy (PCM).

**Shower room** - A room between the clean room and the equipment room in the personal decontamination enclosure with hot and cold running water controllable at the top and arranged for complete showering during decontamination.

**Small asbestos project** - An asbestos project involving the installation, removal, disturbances, enclosure, or encapsulation of more than 10 and less than 160 square feet of asbestos or asbestos material of more than 25 and less than 260 linear feet of asbestos or asbestos material.

**Staging area** - The area near the waste transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.

**Surfactant** - A chemical wetting agent added to water to improve its penetration.

**Visible emissions** - An emissions of particulate material that can be seen without the aid of instruments.

**Washroom** - A room between the work area and the holding area in the waste decontamination enclosure system, where equipment and waste containers are wet cleaned and/or HEPA vacuumed.

**Waste decontamination enclosure system** - An area, consisting of a washroom and a holding area, designated for the controlled transfer of materials and equipment.

**Wet cleaning** - The process of eliminating asbestos contamination from surfaces, equipment or other objects by using cloths, mops, or other cleaning tools.

**Work area** - Designated rooms, spaces, or areas where asbestos abatement takes place.

**Work site** - Premises where asbestos abatement is taking place.

**Work Surface** - Substrate surface from which asbestos-containing material has been removed.

## **1.07 UTILITIES, SERVICE AND TEMPORARY FACILITIES**

- A. The Owner shall make available to the Abatement Contractor all reasonable amounts of water and electrical power at no charge.
- B. The Abatement Contractor shall provide, at his own expense, all electrical, water, and waste connections, extensions, and construction materials, supplies, etc. All connections must be

approved in advance by the Owner and all work relative to the utilities must be in accordance with the applicable building codes.

- C. The Abatement Contractor shall provide scaffolding, ladders and staging, etc. as necessary to accomplish the work of this contract. The type, erection and use of all scaffolding, ladders and staging, etc. shall comply with all applicable OSHA provisions.
- D. All connections to the Owner's water system shall include reduced pressure backflow protection or double check and double gate valves. Valves shall be temperature and pressure rated for operation of the temperatures and pressures encountered. After completion of use, connections and fittings shall be removed without damage or alteration to existing water piping and equipment. Leaking or dripping valves shall be piped to the nearest drain or located over an existing sink or grade where water will not damage existing finishes or equipment.
- E. The Abatement Contractor shall use only heavy duty abrasion resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water to each work area and to each decontamination unit. Provide fittings as required to allow for connection to existing wall hydrants or spouts, as well as temporary water heating equipment, branch piping, showers, shut-off nozzles and equipment. All water must be shut off at the end of each shift.
- F. The Abatement Contractor shall provide service to decontamination unit electrical subpanel with minimum 60 amp, 2 pole circuit breaker or fused disconnect and ground-fault circuit interrupters (GFCI), reset button and pilot light, connected to the building's main distribution panel. Subpanel and disconnect shall be sized and equipped to accommodate all electrical equipment required for completion of the work. This electrical subpanel shall be used for hot water heater, PAPR battery recharging and air sampling pumps.
- G. The Abatement Contractor shall provide UL rated 40-gallon electric hot water heater to supply hot water for the decontamination unit shower. Activate from 30 amp circuit breaker on the electrical subpanel located within the decontamination unit. Provide with relief valve compatible with water heater operation; relief valve down to drip pan on floor with type L copper. Wiring of the hot water heater shall be in compliance with NEMA, NEC, and UL standards.
- H. The Abatement Contractor shall provide identification warning signs at power outlets, which are other than 110-120 volt power. Provide polarized outlets for plug-in type outlets, to prevent insertion of 110-120 plugs into higher voltage outlets. Dry transformers shall be provided where required to provide voltages necessary for work operations. All outlets or power supplies shall be protected by ground fault circuit interrupter (GFCI) at the power source.
- I. The Abatement Contractor shall use only grounded extension cords; use "hard-service" cords where exposed to abrasion and traffic. Use single lengths or use waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas of work.
- J. The Abatement Contractor shall provide general service incandescent lamps of wattage indicated or required for adequate illumination; Protect lamps with guard cages or tempered glass enclosures; Provide exterior fixtures where fixtures are exposed to moisture.
- K. The Abatement Contractor shall provide temporary heat or air conditioning as necessary to maintain comfortable working temperatures inside and immediately outside the work areas.

Heating and A/C equipment shall have been tested and labeled by UL, FM or another recognized trade association related to the fuel being used. Fuel burning heaters shall not be used inside containment areas. The Contractor shall also provide a comfortable working environment for occupied areas that are impacted by the asbestos removal.

- L. The Abatement Contractor shall comply with recommendations of the NFPA standard in regard to the use and application of fire extinguishers. Locate fire extinguishers where they are most convenient and effective for their intended purpose, but provide not less than one extinguisher in each work area, equipment room, clean room and outside the work area.

## **1.08 REMOVAL OF FIXTURES**

- A. In locations where the Abatement Contractor is directed to dispose of fixtures he shall either decontaminate the fixtures and dispose of them as non-asbestos containing materials or he shall place them in an appropriate container and dispose of them as asbestos containing material.
- B. In locations where the Abatement Contractor is directed to remove and reinstall fixtures, the fixtures shall be removed, decontaminated, labeled, protected with plastic and stored by the contractor in a location as directed by the Owner.
- C. Upon completion of the asbestos removal and upon receiving satisfactory clearance air monitoring results, all items to be replaced shall be restored to their original location and reinstalled by the Abatement Contractor.

## **PART 2 – PRODUCTS**

### **2.01 MATERIALS AND EQUIPMENT**

#### **A. GENERAL REQUIREMENTS**

- 1. Materials shall be stored off the ground, away from wet or damp surfaces and under protective cover to prevent damage or contamination.
- 2. Damaged or deteriorating materials shall not be used and shall be removed from the premises.
- 3. Power tools used to drill, cut into, or otherwise disturb asbestos material shall be equipped with HEPA filtered local exhaust ventilation.
- 4. The Abatement Contractor shall make available to authorized visitors, ladders and/or scaffolds of sufficient dimension and quantity so that all work surfaces can be easily and safely reached for inspection. Scaffold joints and ends shall be sealed with tape to prevent incursion of asbestos. Scaffolds and ladders shall comply with all applicable codes.

#### **B. PLASTIC BARRIERS (POLYETHYLENE)**

- 1. In sizes and shapes to minimize the number of joints.
  - a. Six mil. (.006") fire-retardant for vertical protection (walls, entrances and openings).

- b. Six mil. (.006") fire-retardant for horizontal protection (fixed equipment) and heating grilles.
  - c. Six mil. (.006") reinforced fire-retardant for floors of decon units.
- 2. Provide two (2) layers over all roof, wall and ceiling openings. Floor penetrations shall be sealed with a rigid material prior to plasticizing to prevent tripping and fall hazards. All seams within a layer shall be separated by a minimum distance of six feet and sealed airtight. All seams between layers shall be staggered.
  - 3. Barrier Attachment - Commercially available duct tape (fabric or paper) and spray-on adhesive. Duct tape shall be capable of sealing joints of adjacent sheets of plastic, facilitating attachment of plastic sheets to finished or unfinished surfaces of dissimilar materials and adhering under both dry and wet conditions.

#### C. SIGNS

- 1. Danger signs shall be provided and shall conform to 29 CFR 1926.1101 and be 14" x 20". These signs shall bear the following information:

**DANGER  
ASBESTOS  
CANCER AND LUNG DISEASE HAZARD  
RESPIRATORS AND PROTECTIVE  
CLOTHING  
ARE REQUIRED IN THIS AREA**

#### D. DANGER LABELS AND TAPE

- 1. Labels shall be affixed to any asbestos contaminated material in accordance with the requirements of 29 CFR 1910.1200 (f) of OSHA's Hazard Communication Standard, and shall contain the following information:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID BREATHING DUST  
CANCER AND LUNG DISEASE HAZARD**

- 2. A label shall be affixed on each container of asbestos waste in accordance with the requirements of 49 CFR Parts 171 and 172, Hazardous Substances; Final Rule (U.S. Department of Transportation), and shall contain the following information:

**RQ HAZARDOUS SUBSTANCE  
SOLID, NOS, ORM-E, NA 9188  
(ASBESTOS)**

3. A label shall be affixed on each container of asbestos waste in accordance with the requirements of 40 CFR Part 61.150, NESHAP; Asbestos; Final Rule (USEPA) and shall contain the name of the waste generator and the location at which the waste was generated.

NOTE: All containers marked as above (1,2 and 3) shall be disposed of as asbestos waste.

4. Provide 3" red barrier tape printed with black lettered "DANGER ASBESTOS REMOVAL". Locate barrier tape across all corridors, entrances and access routes to asbestos work area.

**E. PROTECTIVE EQUIPMENT**

**1. Respiratory Requirements**

- a. Where fiber levels permit, and in compliance with regulatory requirements, Powered Air Purifying Respirators are the minimum allowable respiratory protection permitted to be utilized during removal operations.
- b. Where not in violation of NIOSH, OSHA, and any other regulatory requirements, the Abatement Contractor shall provide the following minimum respiratory protection to the maximum use concentrations indicated:

<u>MSHA/NIOSH Approved Respiratory Protection</u>	<u>Maximum Use Concentration</u>
Half-Mask Air Purifying with HEPA Filters	10x PEL
Full-Facepiece Air Purifying HEPA Filters and Quantitative Fit Test	10x PEL
Powered Air Purifying (PAPR), Loose fitting Helmet or Hood, HEPA Filter	25x PEL
Powered Air Purifying (PAPR), Full Facepiece, HEPA Filter	50x PEL
Supplied Air, Continuous Flow Loose fitting Helmet or Hood	25x PEL
Supplied Air, Continuous Flow	50x PEL

Full Facepiece, HEPA Filter

Full Facepiece-Supplied Air  
Pressure Demand, HEPA Filter 100x PEL

Full Facepiece-Supplied Air  
Pressure Demand, with Aux. SCBA,  
Pressure Demand or Continuous Flow >100x PEL

2. Disposable Clothing - "Tyvek" manufactured by Dupont or approved equal.
3. NIOSH approved safety goggles to protect eyes.
4. Polyethylene bags, 6 mil. (.006") thick (use double bags).

NOTE: Workers must wear disposable coveralls and respirator masks at all times while in the work area. Contaminated coveralls or equipment must be left in work area and not worn into other parts of the building.

#### F. TOOLS AND EQUIPMENT

1. Airless Sprayer - An airless sprayer, suitable for application of encapsulating material, shall be used.
2. Scaffolding - Scaffolding, as required to accomplish the specified work, shall meet all applicable safety regulations.
3. Transportation Equipment - Transportation equipment, as required, shall be suitable for loading, temporary storage, transport and unloading of contaminated waste without exposure to persons or property. Water tight, hard wall containers shall be provided to retain and dispose of any asbestos waste material with sharp-edged components that may tear plastic bags or sheeting. The containers shall be marked with danger labels.
4. Surfactant - Wetting Agents - "Asbestos-Wet" - Aquatrols Corp. of America or approved equal, and shall be non- carcinogenic.
5. Portable (negative air pressure) asbestos filtration system - by Micro-Trap, or approved equal.
6. Vacuum, HEPA type equal to "Nilfisk" #GA73, or "Pullman/Holt" #75 ASA.
7. Amended Water Sprayer - The water sprayer shall be an airless or other low-pressure sprayer for amended water application.
8. Other Tools and Equipment - The Abatement Contractor shall provide other suitable tools for the stripping, removal, encapsulation, and disposal activities including but not limited to: hand-held scrapers, nylon brushes, sponges, rounded edge shovels, brooms, and carts.

## **PART 3 – EXECUTION**

### **3.01 PRE-ABATEMENT WORK AREA PREPARATION**

- A. The work area shall be vacated by the occupants prior to work area preparation and not reoccupied until satisfactory clearance air monitoring results have been achieved.
- B. Caution signs shall be posted at all locations and approaches to a location where airborne concentrations of asbestos may exceed ambient background levels. Signs shall be posted that permit a person to read the sign and take the necessary protective measures to avoid exposure.
- C. Shut down and lock out electric power to all work areas. The Abatement Contractor shall provide temporary power and lighting and ensure safe installation of temporary power sources and equipment used where high humidity and/or water shall be sprayed in accordance with all applicable codes. All power to work areas shall be brought in from outside the area through a ground-fault interrupter at the source.
- D. Isolate the work area HVAC system.
- E. The personnel decontamination enclosure system shall be installed or constructed prior to preparatory work in the work area and in particular before the disturbance of asbestos material. The waste decontamination enclosure system shall be installed or constructed prior to commencement of abatement activities.
- F. Movable objects within the work area shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning and such objects shall be removed from the work area to an uncontaminated location. If disposed of as asbestos waste material, cleaning is not required.
- G. Fixed objects and other items, which are to remain within the work area, shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning. Such objects shall be enclosed with two layers of at least six mil plastic sheeting and sealed with tape.
- H. The work area shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning. Methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters, shall be prohibited. Asbestos material shall not be disturbed during pre-cleaning.
- I. Isolation barriers that seal off all openings, including windows, corridors, doorways, ducts, and any other penetrations of the work area, shall be constructed using two layers of at least six mil fire-retardant plastic sheeting sealed with tape. Also, all seams in mechanical system components that pass through the work area shall be sealed. Doorways and corridors, which shall not be used for passage during work, shall also be sealed.
- J. Removal of mounted objects. After isolation barriers are in place, objects such as light fixtures, electrical track, alarm systems, ventilation equipment and other items not previously sealed, shall be double sealed with six mil fire-retardant plastic sheeting. Localized HEPA filtered vacuum equipment shall be used during fixture removal to reduce asbestos dispersal.
- K. Individual roof and floor drains shall be sealed water tight using two layers of 6-mil fire-retardant

plastic sheeting and tape prior to plasticizing. Openings in floor shall be fully covered with plywood sheeting secured to the floor in such a way as to minimize a tripping hazard prior to plasticizing.

- L. Emergency and fire exits from the work area shall be maintained or alternate exits shall be established according to all applicable codes.
- M. Adequate toilet facilities shall be supplied by the Abatement Contractor and shall be located either in the clean area of the personnel decontamination enclosure or shall be readily accessible to the personnel decontamination enclosure.

### **3.02 LARGE ASBESTOS PROJECT PERSONNEL DECONTAMINATION ENCLOSURE SYSTEM (ICR 56-7.5)**

- A. The personnel decontamination enclosure shall be constructed prior to preparatory work in the work area and, in particular, before the disturbance of asbestos material.
  - 1. Construction and use of personnel decontamination enclosure systems shall be in accordance with ICR-56 and any Applicable or Site Specific Variances utilized on this project. Such systems may consist of existing rooms outside of the work area, if the layout is appropriate, that can be enclosed is plastic sheeting and are accessible from the work area. When this situation does not exist, enclosure systems may be constructed out of metal, wood or plastic support.
  - 2. The personnel decontamination enclosure system shall consist of a clean room, a shower room, and an equipment room, in series, separated from each other and from the work area by three airlocks.
  - 3. There shall be one shower per six full shift abatement persons calculated on the basis of the largest shift.
  - 4. The personnel decontamination enclosure system shall be fully framed, sheathed for safety and constructed to prevent unauthorized entry.
  - 5. Personnel decontamination enclosure systems constructed at the work site shall utilize at least six mil fire-retardant opaque plastic sheeting. At least two layers of six mil fire-retardant reinforced plastic sheeting shall be used for the flooring of this area.
  - 6. All prefabricated decontamination units shall be completely decontaminated and sealed prior to separation and removal from the work area. Mobile decontamination units shall remain in place until satisfactory clearance results have been attained.
  - 7. The clean room shall be sized to accommodate all authorized persons. Benches, lockers and hooks shall be provided for street clothes. Shelves for storing respirators shall also be provided. Clean clothing, replacement filters for respirators, towels and other necessary items shall be provided. The clean room shall not be used for the storage of tools, equipment or materials. It shall not be used for office space. A lockable door shall be provided to permit access to the clean room from outside the work area or enclosure. It shall be used to secure the work area and decontamination enclosure during off-shift hours.

8. The shower room shall contain one or more showers. Each shower head shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed to ensure against leakage of any kind. Uncontaminated soap, shampoo and towels shall be available at all times. Shower water shall be drained, collected and filtered through a system with at least 5.0 micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtration system by large particles. Filtered wastewater shall be discharged in accordance with applicable codes. Contaminated filters shall be disposed of as asbestos waste. The shower room shall be constructed in such way that travel through the decontamination unit shall be through the shower.
9. The equipment room shall be used for the storage of equipment and tools after decontamination using a HEPA filtered vacuum and/or wet cleaning. A one day supply of replacement filters, in sealed containers, for HEPA vacuums and negative pressure ventilation equipment, extra tools, containers of surfactant and other materials and equipment that may be required during the abatement project may also be stored here. A walk-off pan filled with water shall be located in the work area just outside the equipment room for persons to clean foot covering when leaving the work area. A drum lined with a labeled, at least six mil plastic bag is required for collection of clothing and shall be located in this room. Contaminated footwear and work clothes shall be stored in this area.

### **3.03 WASTE DECONTAMINATION ENCLOSURE SYSTEM (ICR 56-7.5)**

#### **A. General Requirements**

1. A waste decontamination enclosure system shall consist of the following:
  - a. A washroom/cleanup room shall be constructed with an airlock doorway to the work area and another airlock doorway to the holding area.
  - b. The holding area shall be constructed with an airlock doorway to the washroom/cleanup room and another lockable door to the outside.
2. Where there is only one egress from the work area, the holding area of the waste decontamination enclosure system may branch off from the equipment decontamination room, which doubles as a waste washroom, of the personnel decontamination enclosure.
3. The waste washroom shall be equipped with a drain installed to collect water and deliver it to the shower drain where it shall be filtered through a system with at least 5.0 micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtration system by large particles. Filtered wastewater shall be discharged in accordance with applicable codes. Contaminated filters shall be disposed of as asbestos waste.
4. The waste washroom shall be constructed in such a way that travel through the rooms shall be through the waste washroom

### **3.04 WORK AREA ENTRY AND EXIT PROCEDURES**

- A. The following procedures shall be followed throughout the asbestos abatement project until

satisfactory clearance air monitoring results have been achieved:

1. All persons shall enter and exit the work area through the personnel decontamination enclosure system.
2. All persons who enter the work area or an enclosure shall sign the entry/exit log, located in the clean room, upon every entry and exit.
3. All persons, before entering the work area, or an enclosure shall read and be familiar with all posted regulations, personal protection requirements, including work area entry and exit procedures, and emergency procedures. The entry/exit log headings shall indicate, and the signatures shall be used to acknowledge, that these have been reviewed and understood by all persons prior to entry.
4. All persons shall proceed first to the clean room, remove all street clothing, store these items in clean sealable plastic bags or lockers and don coveralls, head covering, foot covering and gloves. All persons shall also don NIOSH approved respiratory protection. Clean respirators and protective clothing shall be utilized, by each person, for each separate entry into the work area. Respirators shall be inspected prior to each use and tested for proper seal using quantitative or qualitative fit checks.
5. Persons wearing designated personal protective equipment shall proceed from the clean room through the shower room to the equipment room, where necessary tools are collected and any additional clothing shall be donned, before entry into the work area.
6. Before leaving the work area, all persons shall remove gross contamination from the outside of respirators and protective clothing by brushing, wet cleaning, and/or HEPA vacuuming.
7. Persons shall proceed to the equipment room where all coveralls, head covering, foot covering and gloves shall be removed. Disposable clothing shall be deposited into labeled containers for disposal. Reusable contaminated clothing, footwear, head gear and gloves shall be stored in the equipment room when not being used in the work area.
8. Still wearing respirators, persons shall proceed to the shower area, clean the outside of the respirator and the exposed face area under running water prior to removal of the respirator, and then fully and vigorously shower and shampoo to remove residual asbestos contamination. Respirators shall be washed thoroughly with soap and water. Some types of respirators will require slight modification of these procedures. An airline respirator with HEPA filtered disconnect protection shall be disconnected in the equipment room and worn into the shower. A powered air-purifying respirator facepiece shall be disconnected from the filter/power pack assembly prior to entering the shower.
9. After showering and drying, all persons shall proceed to the clean room and don clean personal protective equipment if returning to the work area or street clothing if exiting the enclosure.

### **3.05 EQUIPMENT AND WASTE CONTAINER DECONTAMINATION & REMOVAL PROCEDURES**

- A. The following procedures shall be followed throughout the asbestos abatement project until satisfactory clearance air monitoring results have been achieved.
1. External surfaces of contaminated containers and equipment shall be cleaned by wet cleaning and/or HEPA vacuuming in the work area before moving such items into the waste decontamination enclosure system airlock by persons assigned to this duty. These work area persons shall not enter the airlock.
  2. These contaminated items shall be removed from the airlock by persons stationed in the washroom during waste removal operations. These washroom persons shall remove gross contamination from the exterior of their respirators and protective clothing by brushing, HEPA vacuuming and/or wet cleaning.
  3. Once in the waste decontamination enclosure system, external surfaces of contaminated containers and equipment shall be cleaned a second time by wet cleaning.
  4. The cleaned containers of asbestos material and equipment are to be dried of any excessive pooled or beaded liquid, placed in uncontaminated plastic bags or sheeting and sealed airtight.
  5. The clean recontainerized items shall be moved into the airlock that leads to the holding area. The washroom persons shall not enter this airlock or the work area until waste removal is finished for that period.
  6. Containers and equipment shall be moved from the airlock and into the holding area by persons dressed in clean personal protective equipment, who have entered from uncontaminated areas.
  7. The cleaned containers of asbestos material and equipment shall be placed in water tight carts with doors or tops that shall be closed and secured. These carts shall be held in the holding area pending removal. The carts shall be wet cleaned and/or HEPA vacuumed at least once each day.
  8. The exit from the decontamination enclosure system shall be secured to prevent unauthorized entry.
  9. Where the waste removal enclosure is part of the personnel decontamination enclosure, waste removal shall not occur during shift changes or when otherwise occupied. Precautions shall be taken to prevent short circuiting and cycling of air outward through the shower and clean room.
  10. Containers labeled with Asbestos hazard warnings shall not be used to dispose of non asbestos waste.

### **3.06 ENGINEERING CONTROLS**

A. Ventilation.

1. The Abatement Contractor shall employ HEPA equipped vacuums or negative air pressure equipment for ventilation as required.
2. All negative air pressure equipment ventilation units shall be equipped with HEPA filtration. The Contractor shall provide a manufacturer's test certificate for each unit documenting the capability

of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 microns equivalent aerodynamic diameter.

3. A power supply shall be available to satisfy the requirements of the total of all ventilating units.
4. On electric power failure, abatement shall stop immediately and shall not resume until power is restored and exhaust units are operating fully. On extended power failure, longer than one hour, the decontamination facilities, after the evacuation of all persons from the work area, shall be sealed airtight.
5. If extending the exhaust of the ventilation units 50 feet from the building would result in an exhaust location either in the road, blocking driveway access to the facility or within 50 feet of other buildings, a second unit will be run in series with the primary unit.

### **3.07 MAINTENANCE OF DECONTAMINATION ENCLOSURE SYSTEMS AND WORK AREA BARRIERS**

#### **A. GENERAL REQUIREMENTS**

1. The Consultant must review and approve installation before commencement of work. Upon completion of the construction of all plastic barriers and decontamination system enclosures and prior to beginning actual abatement activities.
2. All plastic barriers inside the work area, in the personnel decontamination enclosure system, in the waste decontamination enclosure system and at partitions constructed to isolate the work area from occupied areas, shall be inspected by the asbestos supervisor at least twice daily. The barriers shall be inspected before the start of and following the completion of the day's abatement activities. Inspections and observations shall be documented in the project log.
3. Damage and defects in the barriers and/or enclosure systems shall be repaired immediately upon discovery and prior to resumption of abatement activities.
4. At any time during the abatement activities, if visible emissions are observed outside of the work area or if damage occurs to the barriers, work shall be stopped, repairs made and visible residue immediately cleaned up using HEPA vacuuming methods prior to the resumption of abatement activities.
5. The Abatement Contractor shall HEPA vacuum and/or wet clean the waste decontamination enclosure system and the personnel decontamination enclosure system at the end of each day of abatement activities.

### **3.08 HANDLING AND REMOVAL PROCEDURES**

The Abatement Contractor may utilize existing provisions of ICR-56, Applicable Variances or a Site Specific Variance, approved by the Owner's Consultant, to permit the conduct of this work.

### **3.09 ABATEMENT PROCEDURES**

#### **A. AIR SAMPLING - By Owner**

1. Air sampling and analysis shall be conducted according to the requirements of Subpart 56-4 before the start, during and after the completion of the asbestos removal project.
  2. In addition to the requirements of Subpart 56-4, air monitoring shall be conducted in accordance with any approved job specific variance(s) or applicable variance utilized.
  3. Clearance samples may be analyzed using PCM to maintain compliance with ICR-56.
  4. If applicable, clearance samples will be analyzed using TEM to maintain compliance with ICR-56 and 40 CFR 763.90[i].
- B. The provisions of the Applicable Variances or a Job Specific Variance shall apply only in those areas where approval has been granted by the NYS DOL and the Contractor has obtained concurrence from the Owner's Consultant. All other applicable provisions of Industrial Code Rule 56-1 through 56-12 shall be complied.
- C. A copy of the NYS DOL Job Specific or Applicable Variance, if applicable, shall be conspicuously posted at the work area(s).
- D. The Abatement Contractor shall construct a decontamination unit at the work site. The Abatement Contractor shall, as a minimum, comply with the requirements of 29 CFR 1926.1101(j); Hygiene facilities and practices for employees.

### **3.10 ENCAPSULATION PROCEDURES**

The following procedures shall be followed to seal in non-visible residue, after obtaining satisfactory clearance air monitoring results, while conducting lockdown encapsulation on any surfaces which were the subject of removal or other remediation activities:

- A. Only encapsulants rated as acceptable or marginally acceptable on the basis of Battelle Columbus Laboratory test procedures and rating requirements developed under the 1978 USEPA contract shall be used for lockdown encapsulation.
- B. Sealants considered for use in encapsulation shall first be tested to ensure that the sealant is adequate for its intended use. A section of the work surface shall be evaluated following this initial test application of the sealant to quantitatively determine the sealant's effectiveness in terms of penetrating and locking down the asbestos fibers. The American Society of Testing and Materials (ASTM) Committee E06.21.06E on Encapsulation of Building Materials has developed a guidance document to assist in the selection of an encapsulant.
- C. The encapsulant solvent or vehicle shall not contain a volatile hydrocarbon.
- D. Encapsulants shall be applied using airless spray equipment.
  1. Spraying is to occur at the lowest pressure range possible to minimize fiber release from encapsulant impact at the surface. It shall be applied with a consistent horizontal or vertical motion.

- E. Encapsulation shall be utilized as a surface sealant once all asbestos containing materials have been removed in a work area. In no event shall encapsulant be applied to any surface that was the subject of removal or other remediation activities prior to obtaining satisfactory clearance air monitoring.

### **3.11 CLEANUP PROCEDURES**

- A. The following cleanup procedures shall be required.

1. Cleanup of accumulations of loose asbestos material shall be performed whenever enough loose asbestos materials have been removed to fill a single leak tight container of the type commensurate with the material properties. In no case shall cleanup be performed less than once prior to the close of each working day. Asbestos material shall be kept wet until cleaned up.
2. Accumulations of dust shall be cleaned off all surfaces on a daily basis using HEPA vacuum cleaning methods.
3. Decontamination enclosures shall be HEPA vacuumed at the end of each shift.
4. Accumulations of asbestos waste material shall be containerized utilizing HEPA vacuums or rubber or plastic dust pans, squeegees, or shovels. Metal shovels shall not be used to pick up or move waste.
5. Excessive water accumulation or flooding in the area shall require work to stop until the water is collected and disposed of properly.

- B. The following cleanup procedures shall be required after completion of all removal activities.

1. All accumulations of asbestos waste material shall be containerized utilizing HEPA vacuums or rubber or plastic dust pan, squeegees or shovels. Metal shovels shall not be used to pick up or move waste. HEPA vacuums shall be used to clean all surfaces after gross cleanup.
2. Cleaning. All surfaces in the work area shall be HEPA vacuumed. To pick up excess liquid and wet debris, a wet purpose shop vacuum may be used and shall be decontaminated prior to removal from the work area.
3. Windows, doors, HVAC system vents and all other openings shall remain sealed. Decontamination enclosure systems shall remain in place and be utilized.
4. All containerized waste shall be removed from the work area and the holding area.
5. All tools and equipment shall be decontaminated and removed from the work area.
6. A final visual inspection and clearance air monitoring, as per the schedule for air sampling and analysis, shall be conducted.
7. The isolation barriers and decontamination unit shall be removed only after satisfactory clearance air monitoring results have been achieved.

### **3.12 SAFETY MONITORING – CONSULTANT:**

The Consultant will designate an Asbestos Safety Technician (AST) to represent the Owner during the removal program. The AST must be on the job site at all times during abatement work. Absolutely no abatement or preparation work will occur without the presence of the AST.

The AST will conduct four (4) milestone inspections.

1. Pre-commencement inspection shall be conducted as follows:
  - a. Notification in writing to the Consultant shall be made by the Abatement Contractor to request a pre-commencement inspection at least 48 hours in advance of the desired date of inspection. This inspection shall be requested prior to beginning preparatory work in another work area.
  - b. The AST shall ensure that:
    - i. The job site is properly prepared and that all containment measures are in place;
    - ii. The designated supervisor shall present to the inspector a valid supervisor's license issued by the New York Department of Labor;
    - iii. All workers shall present to the inspector a valid handler's license issued by the New York Department of Labor;
    - iv. Measures for the disposal of removed asbestos material are in place and shall conform to the adopted standards;
    - v. The Abatement Contractor has a list of emergency telephone numbers at the job site which shall include the monitoring firm employed by the Owner and telephone numbers for fire, police, emergency squad, local hospital and health officer.
  - c. If all is in order, the AST shall issue a written notice to proceed in the field. If the job site is not in order, then any needed corrective action must be taken before any work is to commence. Conditional approvals shall not be granted.

Progress inspection shall be conducted as follows:

- a. Primary responsibility for ensuring that the abatement work progresses in accordance with these technical specifications and regulatory requirements rests with the Abatement Contractor. The AST shall continuously be present to observe the progress of work and perform required tests.
- b. If the AST observes irregularities at any time, he shall direct such corrective action as may be necessary. If the Abatement Contractor fails to take the corrective action required, or if the Abatement Contractor or any of their employees habitually and/or excessively violate the requirements of any regulation, then the AST shall inform the Owner who shall issue a Stop Work Order to the Abatement Contractor and have the work site secured until all violations are abated.

Clean-up inspections shall be conducted as follows:

- a. Notice for clean-up inspection shall be requested by the Abatement Contractor at least 24 hours

in advance of the desired date of inspection;

- b. The clean-up inspection shall be conducted prior to the removal of any isolation or critical barriers and before final air clearance monitoring;
  - c. The AST shall ensure that:
    - i. The work site has been properly cleaned and is free of visible asbestos containing material and debris.
    - ii. All removed asbestos has been properly placed in a locked secure container outside of the work area.
  - d. If all is in order, the AST shall issue a written notice of authorization to remove surface barriers from the work area. All isolation barriers shall remain in place until satisfactory clearance air sampling has been completed.
4. Clearance Visual Inspection shall be conducted after the removal of non-critical plastic sheeting. The AST shall insure that:
- a. The work area is free of all visible asbestos or suspect asbestos debris and residue.
  - b. All waste has been properly bagged and removed from the work area.
  - c. Should clearance visual inspection identify residual debris, as determined by the AST, the Abatement Contractor is responsible for recleaning the area at his own cost and shall bear all costs of reinspection until acceptable levels are achieved.
- B. The Abatement Contractor shall be required to receive written approval before proceeding after each milestone inspection.

### **3.13 PERSONNEL AIR MONITORING – CONTRACTOR (29 CFR 1926.1101)**

- A. Personnel air monitoring shall be provided to determine both short-term (STEL) and full shift during when abatement activities occur. Personnel sampling shall be performed in each work area in order to accurately determine the concentrations of airborne asbestos to which workers may be exposed.
- B. The Abatement Contractor shall have a qualified "Competent Person" (as specified in 29 CFR 1926 OSHA) to conduct personnel air monitoring.
- C. The laboratory performing the air sample analysis shall be certified by NYS DOH ELAP and approved by the consultant.
- D. Personnel air monitoring test results for OSHA Compliance. Results shall be posted at the work site within 24 hours of testing and copies supplied to the Owner within five (5) days of testing. Abnormalities shall be supplied to the Owner immediately.

### **3.14 CLEARANCE AIR MONITORING**

- A. Air samples will be collected in and around the work areas at the completion of abatement activities.
- B. Clearance samples may be analyzed using PCM to maintain compliance with ICR-56.
- C. If applicable, clearance samples will be analyzed using TEM to maintain compliance with ICR-56 and 40 CFR part 763 “Asbestos-Containing Materials in Schools; Final Rule and Notice” section 763.90.
- D. **\*\*\*RETESTING\*\*\***  
Should clearance air monitoring yield fiber concentrations above the “Clearance” criteria of either 0.01 fibers per CC and/or background levels (PCM) –OR- seventy (70) structures per square millimeter (TEM/AHERA), the Abatement Contractor is responsible for re-cleaning the area at his own cost and shall bear all costs associated with the retesting of the work area(s) including monitoring labor, sampling, analysis, etc. until such levels are achieved.

### **3.15 RESPIRATORY PROTECTION REQUIREMENT**

- A. Respiratory protection shall be worn by all individuals inside the work area from the initiation of the asbestos project until all areas have successfully passed clearance air monitoring in accordance with these specifications. The Abatement Contractor shall keep available at all times two PAPR's with new filters and charged batteries for use by authorized visitors.
- B. All respiratory protection shall be MSHA/NIOSH approved in accordance with the provisions of 30 CFR Part II. All respiratory protection shall be provided by the Abatement Contractor, and used by workers in conjunction with the written respiratory protection program.
- C. The Abatement Contractor shall provide respirators that meet the requirements of 29 CFR Parts 1910 and 1926.
  - 1. Full facepiece Type C supplied-air respirators operated in pressure demand mode equipped with an auxiliary self- contained breathing apparatus, operated in pressure demand or continuous flow, shall be worn during gross removal, demolition, renovation and/or other disturbance of ACM whenever airborne fiber concentrations inside the work area are greater than 10.0 f/cc.
  - 2. Full facepiece Type C supplied-air respirators operated in pressure demand mode with HEPA filter disconnect protection shall be work during gross removal, demolition, renovation and/or other disturbance of ACM with an amphibole content and/or whenever airborne fiber concentrations inside the work area are equal to or greater than 0.5 f/cc and less than or equal to 10.0 f/cc.
  - 3. Full facepiece powered air-purifying respirators (PAPR) equipped with HEPA filters shall be worn during the removal, encapsulation, enclosure, repair and/or other disturbance of friable ACM if airborne fiber concentrations inside the work area are less than 0.5 f/cc. A supply of charged replacement batteries, HEPA filters and flow test meter shall be available in the clean room for use with powered air-purifying respirators. HEPA filters shall be changed daily or as flow testing indicates change is necessary. Any Type C supplied-air respirator operated in continuous flow, with HEPA filter disconnect protection, may be substituted for a powered

air-purifying respirator.

4. Loose fitting helmets or hoods with powered air-purifying respirators (PAPR) equipped with HEPA filters may be worn during the removal, encapsulation, enclosure, repair and/or other disturbance of friable ACM if airborne fiber concentrations inside the work area are less than 0.25 f/cc. A supply of charged replacement batteries, HEPA filters and flow test meter shall be available in the clean room for use with powered air-purifying respirators. HEPA filters shall be changed daily or as flow testing indicates change is necessary. Any Type C supplied-air respirator operated in continuous flow may be substituted for a powered air- purifying respirator.
  5. Half-mask or full-face air-purifying respirators with HEPA filters shall be worn only during the preparation of the work area and final clean up procedures provided airborne fiber concentrations inside the work area are less than 0.1 f/cc.
  6. Use of single use dust respirators is prohibited for the above respiratory protection.
- D. Workers shall be provided with personally issued and individually marked respirators. Respirators shall not be marked with any equipment that will alter the fit of the respirator in any way. Only waterproof identification markers shall be used.
- E. The Abatement Contractor shall ensure that the workers are qualitatively or quantitatively fit tested by an Industrial Hygienist initially and every six months thereafter with the type of respirator he/she will be using.
- F. Whenever the respirator design permits, workers shall perform the positive and negative air pressure fit test each time a respirator is worn. Powered air-purifying respirators shall be tested for adequate flow as specified by the manufacturer.
- G. No facial hair, which interferes with the face-to-mask sealing surface, shall be permitted to be worn when wearing respiratory protection that requires a mask-to-face seal.
- H. Contact lenses shall not be worn in conjunction with respiratory protection.
- I. If a worker wears glasses, a spectacle kit to fit their respirator shall be provided by the Abatement Contractor at the Abatement Contractor's expense.
- J. Respiratory protection maintenance and decontamination procedures shall meet the following requirement:
1. Respiratory protection shall be inspected and decontaminated on a daily basis in accordance with OSHA 29 CFR 1910.134(b); and
  2. HEPA filters for negative pressure respirators shall be changed after each shower; and
  3. Respiratory protection shall be the last piece of worker protection equipment to be removed. Workers must wear respirators in the shower when going through decontamination procedures; and
  4. Airline respirators with HEPA filtered disconnect shall be disconnected in the equipment room

and worn into the shower. Powered air-purifying respirator facepieces shall be worn into the shower. Filtered/power pack assemblies shall be decontaminated in accordance with manufacturers' recommendations; and

5. Respirators shall be stored in a dry place and in such a manner that the facepiece and exhalation valves are not distorted; and

6. Organic solvents shall not be used for washing of respirators.

K. No visitors shall be allowed to enter the contaminated area if they do not have their medical certification and training certificate. Authorized visitors shall be provided with suitable PAPR respirators and instructions on the proper use of respirators whenever entering the work area.

### **3.16 DISPOSAL OF WASTE**

#### **A. APPLICABLE REGULATIONS**

1. All asbestos waste shall be stored, transported and disposed of as per, but not limited to, the following Regulations:

a. NYS Code Rule 56

b. U.S. Department of Transportation (DOT)  
Hazardous Substances  
Title 29, Part 171 and 172 of the code of Federal Regulations  
regarding waste collector registration

c. Regulations regarding waste collector registration Title 6, part 364 of the New York State Official Compilation of Codes, Rules and Regulations – 6 NYCRR 364

d. USEPA NESHAPS 40 CFR 61

e. USEPA ASBESTOS WASTE MANAGEMENT GUIDANCE EPA/530-SW-85-007

B. TRANSPORTER OR HAULER - The Abatement Contractor shall bear full responsibility for proper characterization, transportation and disposal of all solid or liquid waste, generated during the project, in a legal manner. The Owner shall approve all transportation and disposal methods.

1. The Abatement Contractor's Transporter (hauler) and disposal site shall be approved by the Owner. The Abatement Contractor shall remove within 48 hours all asbestos waste from the site after completing the clean up.

2. The Transporter must possess and present to the Owner's representative a valid New York State Department of Environmental Conservation Part 364 asbestos hauler's permit to verify license plate and permit numbers. The Owner's representative will verify the authenticity of the hauler's permit with the proper authority.

3. The Abatement Contractor shall give 24 hour notification prior to removing any waste from the site. All waste shall be removed from site only during normal working hours. No waste may be

taken from the site without authorization from the Owner's representative.

4. The Abatement Contractor shall have the Transporter give the date and time of arrival at the disposal site.
5. The Transporter with the Abatement Contractor and Owner's consultant shall inspect all material in the transport container prior to taking possession and signing the Waste Manifest. The Transporter shall not have any off site transfers or be combined with any other off-site asbestos material.
6. The Transporter must travel directly to the disposal site with no unauthorized stops.

#### C. WASTE STORAGE CONTAINER

1. During loading and on site storage, the asbestos waste container shall be labeled with EPA Danger signage:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD**

2. The NYS DEC Hauler's Permit number shall be on both sides and back of the container.
3. The Container will not be permitted to leave the site without the proper signage.
4. A copy of the completed waste manifest shall be forwarded directly to the Owner's Consultant by the disposal facility.
5. Packaging of Non-friable Asbestos. Use of an open top container shall require written request, by the Contractor, and written approval by the Owners Representative, and be performed in compliance with all applicable regulations.
  - a) A chute, if used, shall be air/dust tight along its lateral perimeter and at the terminal connection to the dumpster at ground level (solid wall and top container). The upper end of the chute shall be furnished with a hinged lid, to be closed when the chute is not being used.
  - b) The container shall be lined with a minimum of two (2) layers of 6 mil. Fire-retardant polyethylene draped loosely over the sides so as to facilitate being wrapped over the top of the load and sealed prior to transport from the site.
  - c) Prior to transport from the work site the Dumpster will be disconnected from the chute and sealed air/dust tight utilizing six mil plastic and tape. The waste material will be transported as an asbestos containing material by appropriate legal methods.

6. Packaging Friable Asbestos.

- a) The container shall be a solid wall, hard top and lockable container.
- b) The container shall be locked upon arrival at the site to restrict access. Security shall be provided at the entrance to the container during the loading process and immediately locked upon completion.
- c) The interior walls, floor and ceiling shall be lined with two (2) layers of 6 mil. Fire-retardant polyethylene.
- d) The waste shall be loaded in such a manner as to protect the integrity of the individual waste packages.
- e) Prior to transport from the work site the interior of the Dumpster will sealed air/dust tight utilizing six mil plastic and tape. The waste material will be transported as an asbestos containing material by appropriate legal methods.

D. WASTE DISPOSAL MANIFEST

- 1. The Asbestos Waste Manifest shall be equivalent to the "Waste Shipment Record" included in 40 CFR 61. A copy of the Contractor's manifest shall be reviewed by the Owner's Consultant and shall be the only manifest used.
- 2. The Manifest shall be verified by the Owner's Consultant indicating that all the information and amounts are accurate and the proper signatures are in place.
- 3. The Manifest shall have the signatures of the Abatement Contractor and the Transporter prior to any waste being removed from the site.
- 4. The Manifest shall be signed by the Disposal Facility owner or operator to certify receipt of asbestos containing materials covered by the manifest.
- 5. A copy of the completed manifest shall be provided by the Abatement Contractor to the Owner's Consultant and remain on site for inspection.
- 6. Abatement Contractor shall maintain a waste disposal log which indicates load number, date and time left site, container size, type of waste, quantity of waste, name of hauler, NYS DES permit number, trailer and tractor license number, and date manifest was returned to Consultant.
- 7. The Disposal Facility owner or operator shall return a signed copy of the Waste Manifest directly to:

**Rye CSD  
555 Theodore Fremd Avenue, Suite B-101  
Rye, NY 10580  
ATTN: Robert Gimigliano**

8. Copies of the completed Waste Manifest are to be sent by the disposal facility to the Hauler and Abatement Contractor.
9. Submit signed dump tickets and manifests with final payment request.
10. Final payment request will not be honored without signed dump ticket or manifests accounting for all asbestos waste removed from the site.

#### E. VIOLATIONS OF SPECIFICATIONS

1. Violations of the safety, hygiene, environmental, procedures herein, any applicable federal, state or local requirements or failure to cooperate with the Owner's representative shall be grounds for dismissal and/or termination of this contract.

#### F. VIOLATIONS OF NO SMOKING POLICY

1. The Federal Pro Children Act of 1994 prohibits School District Officials from smoking in any buildings or on the grounds that is property of the School District. The District shall be considered smoke free. The School District strongly enforces its' No Smoking Policy. It is the Contractor's responsibility to inform all workers of this policy. Any worker(s) involved with this project that are found smoking or using tobacco products will be informed that they are in violation of the Federal and State Law and School Board Policy and will be removed from site.

### 3.17 LOCATION OF “ABATEMENT WORK”

*(Please see attached Drawings for approximate locations)*

#### 1) RYE HIGH SCHOOL/MIDDLE SCHOOL (INTERIOR ABATEMENTS)

- Abatement Contractor is responsible for complete & total removal & disposal of approximately 1,460 SF of non-friable asbestos-containing 9”x9” floor tile & associated mastic on non-ACM slab. Tiles to be removed are both exposed and beneath existing wood casework. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Subsequent to final air clearance, the substrate(s) shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering(s) and eliminate residual odors. See attached ACM Location Drawings for removal locations. See below for breakdown and layering systems:
  - 2<sup>nd</sup> Floor East Hallway – Exposed, on Slab (1,000 SF)
  - Classroom 303 – Exposed, on Slab (200 SF)
  - 3<sup>rd</sup> Floor Hallway Outside of 303 & 304 – Exposed, on Slab (260 SF)
- Abatement Contractor is responsible for complete & total removal & disposal of approximately 3,060 SF of non-friable asbestos-containing 1’x1’ floor tile on non-ACM slab. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM Location Drawings for removal locations. See below for breakdown and layering systems:
  - Classroom 301 & 302 – On Slab (300 SF)
  - 3<sup>rd</sup> Floor Hallway Outside of 301 & 302 – (960 SF)
- Abatement Contractor is responsible for complete & total removal & disposal of 1’x1’ ceiling tiles with approximately 1,548 SF of non-friable asbestos-containing glue dabs on non-ACM plaster ceilings. ACM to be removed is both exposed and concealed above non-ACM suspended ceiling tiles as described below. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM Location Drawings for removal locations. See below for breakdown:
  - Classrooms 301, 302 & 304 – Above Non-ACM Suspended Ceilings (1,548 SF Approx. Total)
- Abatement Contractor is responsible for removal of three (3) door frames/casings connected to friable, asbestos-containing plaster within the High School Auditorium Lobby. Doors shall be removed and stored prior to commencement of abatement activities. Abatement Contractor shall remove at least an additional one (1) foot of plaster from each side of the removed door frame, and patch/reinstall masonry to allow for installation of new doors and frames as non-abatement work. Removals shall include all materials, including the lathe, studs and/or masonry substrate. Abatement contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM location drawings for locations. See below for breakdown and approximate quantity of plaster to be removed:
  - Men’s Toilet 103 Door (25 SF)
  - Two (2) Entrance Doors (25 SF Each, 50 SF Approximate Total)
- Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 SF of friable, plaster on metal lathe and/or non-ACM masonry within Men’s Bathroom 103, and for the subsequent abatement of approximately 50 SF of non-friable asbestos-containing waterproofing tar on masonry behind the removed plaster. Abatement contractor is responsible for all demolition required to access material(s), as well

as for providing all equipment necessary to access material(s). See attached ACM location drawings for approximate location. Refer to drawing A2-511 for removal details.

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Men's Bathroom 103, Girl's Toilet 241B, Boy's Toilet 181, and Girl's Toilet 183:
  - Radiator/Heater, and approximately 12 SF of friable insulation/insulation board assumed to exist behind the removed unit.
  - Mirrors and approximately 12 SF of non-friable glue/mastic on plaster and/or masonry.
  - Approximately 40 LF of friable pipe insulation/fittings assumed to exist in concealed locations such as, but not limited to above plaster/sheetrock ceilings, behind plaster/sheetrock walls, within CMU wet walls, chases, soffits, plenums, etc.

The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Women's Bathroom 105:
  - Three (3) radiators/heaters, and approximately 12 SF of friable insulation/insulation board assumed to exist behind each removed unit, as well as approximately 12 SF of non-friable asbestos containing waterproofing tar on perimeter masonry behind each removed unit.
  - Two (2) wall diffusers on friable, asbestos-containing plaster walls, as well as 1' of wall material, including lathe around perimeter of each diffuser (approx. 4 SF each)
  - Friable, asbestos containing plaster on metal lathe, behind sheetrock, in two (2) locations of toilet & associated plumbing removals. Abatement contractor is responsible for complete & total removal of all wall materials, and materials found behind walls associated with plumbing demo.

The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Abatement contractor is responsible for all patching to ensure all demolition and construction required is non-ACM work. All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

- Abatement Contractor is responsible for complete & total removal and disposal of approximately 100 SF of ceiling tiles with associated non-friable asbestos containing glue dabs on non-acm plaster ceiling in the second-floor hallway to facilitate demolition for electrical conduit runs, as described on attached ACM Location Drawing(s). Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all labor and equipment necessary to access material(s). All removals must be coordinated with general contractor and electrical contractor. Refer to drawings D2-102 and E2-311 for demo plans and proposed conduit runs.

## **2) RYE HIGH SCHOOL/MIDDLE SCHOOL (ROOF & EXTERIOR ABATEMENTS)**

- Abatement Contractor is responsible for complete & total removal and disposal of approximately 570 SF of non-friable, asbestos containing roof flashing tar, as indicated on attached ACM Location Drawings. ACM flashing tar exists on flashings to roof perimeter, adjacent building facades, and all installed equipment, on non-ACM masonry and metal, and on non-ACM concrete roof deck. All removals shall be to their respective substrate(s) and shall be at least eighteen (18) inches from the edge of the roof or equipment. All layers above ACM tar shall be removed and disposed of as ACM. Abatement Contractor is responsible for

- all demolition required to access material(s), as well as for providing all equipment necessary to access material(s).
- Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 LF of non-friable asbestos-containing caulk from two (2) windows outside of the 3<sup>rd</sup> floor stairwell, as described on attached ACM location drawings. Windows are to be accessed from the roof locations identified for asbestos abatement. Abatement contractor is responsible for all demolition required to access material(s) as well as for providing all labor and equipment necessary to access material(s). Abatement contractor is responsible for re-caulking all removal locations following third-party monitor final visual inspection.

**END OF LOCATION OF WORK**

### **3.18 GENERAL**

- A. The Abatement Contractor will be responsible for repairing all building components damaged during abatement including, but not limited to: ceiling tiles, ceiling finishes, wall finishes, floor finishes, etc.
- B. The Abatement Contractor shall be responsible for all demolition required to access materials identified in scope of work and on associated drawings.
- C. Concealed conditions that are exposed and may require additional work shall be brought to the attention of the Owner immediately. The Abatement Contractor shall not abate these areas without a written notice to proceed. Additional asbestos abatement performed prior to the order to proceed will not be acknowledged.
- D. The Abatement Contractor shall remove asbestos-containing floor covering to the building substrate beneath; in areas indicted. Subsequent to final air clearance the substrate shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering and eliminate residual odors.
- E. Power tools used to drill, cut into or otherwise disturb asbestos containing material shall be equipped with HEPA filtered local exhaust ventilation.
- F. The Abatement Contractor shall provide access to GFCI electrical power, required to perform the area air monitoring for this project, within and immediately adjacent to each work area.
- G. Unwrapped or unbagged ACM shall be immediately placed in an impermeable waste bag or wrapped in plastic sheeting.
- H. Coordinate all removal operations with the Owner.

**Asbestos Employee Medical Examination Statement  
Certificate of Worker Release  
Asbestos Employee Training Statement  
CERTIFICATE OF WORKERS'S ACKNOWLEDGEMENT**

PROJECT NAME: **Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School**

CONTRACTOR'S NAME: \_\_\_\_\_

WORKING WITH ASBESTOS INVOLVES POTENTIAL EXPOSURE TO AIRBORNE ASBESTOS FIBERS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER AND RESPIRATORY DISEASES. SMOKING CIGARETTES AND INHALATION OF ASBESTOS FIBERS INCREASES THE RISK THAT YOU WILL DEVELOP LUNG CANCER ABOVE THAT OF THE NON-SMOKING PUBLIC.

The Contract for this project requires your employer to 1) supply proper respiratory protection devices and training on their use 2) provide training on safe work practices and on use of the equipment used on the project 3) provide a medical examination meeting the requirements of 29 CFR 1926.1101. Your signature on this certificate, documents that your employer has fulfilled these contractual obligations and you understand the information presented to you.

**\*\*\*\*\*DO NOT SIGN THIS FORM UNLESS YOU FULLY UNDERSTAND THIS INFORMATION\*\*\*\*\***

RESPIRATORY PROTECTION: I have been trained in the proper use and limitations of the type of respiratory protection devices to be used on this project. I have reviewed the written respiratory protection program manual and a copy is available for my use. Respiratory protection equipment has been proved, by the Contractor, at no cost to me.

TRAINING COURSE: I have been trained in the risks and dangers associated with handling asbestos, breathing asbestos dust, proper work procedures, personal protection and engineering controls. I have satisfactorily completed and Asbestos Safety Training Program for New York State and have been issued a New York State Department of Health Certificate of Asbestos Safety Training.

MEDICAL EXAMINATION: I have satisfactorily completed a medical examination within the last 12 months that meets the OSHA requirement for an asbestos worker and included at least 1) medical history 2) pulmonary function 3) medical examination 4) approval to wear respiratory protection devises and may have included an evaluation of a chest x-ray.

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Printed Name: \_\_\_\_\_ SS#: \_\_\_\_\_

Witness: \_\_\_\_\_ Date: \_\_\_\_\_

Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School

ESTIMATE OF ACM QUANTITIES

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EACH ABATEMENT CONTRACTOR SHALL READ AND ACKNOWLEDGE THE FOLLOWING NOTICE. A SIGNED AND DATED COPY OF THIS ACKNOWLEDGMENT SHALL BE SUBMITTED WITH THE ABATEMENT CONTRACTOR'S BID FOR THIS PROJECT. FAILURE TO DO SO MAY, AT THE SOLE DISCRETION OF THE OWNER, RESULT IN THE BID BEING CONSIDERED NON-RESPONSIVE AND RESULT IN DISQUALIFICATION OF THE ABATEMENT CONTRACTOR'S BID ON THIS PROJECT.

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\*\*\* NOTICE \*\*\*

*The linear and square footages listed within this specification are approximates. Abatement Contractor is required to visit the work locations prior to bid submittal in order to take actual field measurements within each listed location. The Abatement Contractor shall base their bid on actual quantities determined, by them, at the site walkthrough. Estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project.*

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**Acknowledgment:** I have read and understand the above NOTICE regarding removal quantity estimates and understand that estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project. The Abatement Contractor's signatory represents to the Owner that he/she has the authority of the entity he/she represents to sign this agreement on its behalf.

Company Name: \_\_\_\_\_  
Type or Print

BY: \_\_\_\_\_  
Signature Title Date

Print Name: \_\_\_\_\_

## ASSOCIATED ASBESTOS REMOVAL LOCATION DRAWINGS

➤ **Rye CSD: 2019 Capital Bond Project Phase II** ☐ **Rye High School/Middle School**

- ***HSMS ASB-101*** ☐ ***Rye High School/Middle School*** ☐ ***1<sup>st</sup> Floor Asbestos Abatement***
- ***HSMS ASB-102*** ☐ ***Rye High School/Middle School*** ☐ ***2<sup>nd</sup> Floor Asbestos Abatement***
- ***HSMS ASB-103*** ☐ ***Rye High School/Middle School*** ☐ ***3<sup>rd</sup> Floor Asbestos Abatement***
- ***HSMS ASB-201*** ☐ ***Rye High School/Middle School*** ☐ ***Roof Asbestos Abatement***

**END OF SPECIFICATION**  
**SECTION 020800**

**SECTION 084113**  
**ALUMINUM-FRAMED ENTRANCES & STOREFRONTS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Aluminum Entrance Doors, including:
- B. Related Sections:
  - 1. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 2. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 084413.1, 084413.2, Glazed Aluminum Curtain Wall.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

- A. Performance Requirements: Provide aluminum swing doors that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test methods indicated.
  - 1. Air Infiltration (Single Acting Butt Hinges, Continuous Hinges, or Offset Pivots): Air infiltration shall be tested in accordance with ASTM E 283 at static pressure of 1.57 PSF (75 Pa). Infiltration shall not exceed 0.50 CFM/FT<sup>2</sup> for single door or 1.00 CFM/FT<sup>2</sup> for pair doors.
  - 2. Structural: Door corner structural strength shall be tested per YKK AP's dual moment test procedure and certified by an independent testing laboratory to ensure corner integrity and weld compliance. Certified test procedures and results are available upon request.
  - 3. Structural Uniform Load Test:
    - a. Single Doors: ± 50 psf.
    - b. Pair of Doors: ± 33 psf.
  - 4a. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and AAMA 507 based on Standard 1" insulating unit:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 4b. Thermal Performance:
    - a. When tested in accordance with AAMA 1503 and NFRC 102 based on 1-1/2" clear high performance insulating glass, 1/4" Cardinal E366 Low-E (e=0.022\*, #2) Annealed, 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 0.050" HM88 SWT Film (e=0.110, #3/0.105\*, #4), 0.47" Gap, Stainless Steel Spacer (SS-D), 90% Argon-Filled\*, 1/4" Clear Annealed having a center of glass U-factor of 0.14 BTU/hr/SF/°F:
    - b. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 58.
    - c. Thermal Transmittance U-Value: 0.52 BTU/HR/FT<sup>2</sup>/°F.
  - 5. Acoustical Performance: Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 1" IGU; 33, laminated; 36.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 29, 1" laminated; 32.
  - 6. Forced Entry Resistance: 300 lbs. satisfactory.

**1.03 PROJECT CONDITIONS / SITE CONDITIONS**

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

*Rye City School District*  
*Rye High School/Middle School*

*ALUMINUM FRAMED ENTRANCES & STOREFRONTS*

*084113 - 1*

## 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Product Data: Submit product data for each entrance series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, and finish colors.
- E. Samples: Submit verification samples for colors. Minimum 2-1/2 inch by 3 inch (61 mm by 73 mm) samples on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  - 1. Warranty: Submit executed warranty documents specified herein, endorsed by YKK AP authorized official and installer.
  - 2. Project Record Documents: Submit project record documents, including operation and maintenance data for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.
    - a. Maintenance Data: Maintenance procedures for care and cleaning of entrance systems.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size:
  - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's 20 year standard warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers)

A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000

1. Wausau Metals
2. Kawneer

1. MegaTherm® XT Entrance Doors:
2. Medium Stile Swing Doors: YKK AP Series 35XT Medium Stile Entrance.
  - a. Description: 2-3/8" (60.3 mm) thick by 3-1/2" (88.9 mm) wide Door Stile
3. Corner Construction: Fabricate door corners joined by concealed reinforcement secured with screws, and sigma deep penetration welding.
4. Glazing Stops: Manufacturer's standard snap-in glazing stops with EPDM glazing gaskets to prevent water infiltration.
5. Weather-stripping: Manufacturer's standard pile type in replaceable rabbets for stiles; manufacturer's standard EPDM bulb type for door frames.
6. Hardware: Manufacturer's standard as selected by Architect.

### 2.02 MATERIALS

A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.

B. Aluminum Sheet:

1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050" (1.27 mm) minimum thickness.
2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.

### 2.03 ACCESSORIES

A. Manufacturer's Standard Accessories:

1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
2. Sealant: Non-skinning type, AAMA 803.3.
3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

### 2.04 RELATED MATERIALS (Specified In Other Sections)

A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

### 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with uniform hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.
  - 1. Hardware: Drill and cut to template for hardware. Reinforce frames and door stiles to receive hardware in accordance with manufacturer's recommendations.
  - 2. Welding: Conceal welds on aluminum members in accordance with AWS recommendations or methods recommended by manufacturer. Members showing welding bloom or discoloration on finish or material distortion will be rejected.

## 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:
  - 1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with procedures and meeting AAMA 2605 specifications.
  - 2. Colors: Selected by Architect from the following:
    - a. Standard coating color charts.
  - 3. Warranty Period: Manufacturer's 20 year standard warranty commencing on the substantial date of completion for the project.
- D. Finishes Testing:
  - 1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
  - 2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions and approved shop drawings.

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.
  - 1. Verify location of preset anchors, perimeter fasteners, and block-outs are in accordance with shop drawings.

### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
  - 1. Aluminum Surface Protection: Protect aluminum surfaces from contact with lime, mortar, cement, acids, and other harmful contaminants.

### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
  - 1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
  - 2. Shim and brace aluminum system before anchoring to structure.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect the installed product's finish surfaces from damage during construction.

END OF SECTION

**084413.1**  
**GLAZED ALUMINUM CURTAIN WALLS**

**PART 1 GENERAL**

**1.01 SUMMARY**

A. Section Includes: Glazed Aluminum Curtain Walls:

B. Related Sections:

1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
3. Single Source Requirement: All products listed below shall be by the same manufacturer.
  - a. Section 08 41 13 Aluminum-Framed Entrances and Storefronts.

**1.02 SYSTEM PERFORMANCE DESCRIPTION**

A. Performance Requirements: Provide aluminum curtain wall systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.

1. Risk Category IV

2.. Air Infiltration: Completed curtain wall systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).

3.. Water Infiltration:

- a. No uncontrolled water on indoor face of any component when tested in accordance with ASTM E 331 at a static pressure of 15 PSF (718 Pa).
- b. No uncontrolled water on indoor face of any component when tested in accordance with AAMA 501.1 at a dynamic pressure of 15 PSF (718 Pa).

4. Optional Incidental Water Management: Head member shall be capable of directing condensation from the wall  
Cavity above the curtain wall to the exterior of the system.

5. Wind Loads: Completed curtain wall system shall withstand wind pressure loads per local code requirements. Submit Sealed Structural Calculations from a NY licensed Engineer for review.

6. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.

- a. For spans less than 13'-6" (4.1m): L/175 or 3/4" (19.1mm) maximum. .
- b. For spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m): L/175 or L/240 + 1/4" (6.4mm).

7. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.

8a. Thermal Performance:

- a. Tested in accordance with AAMA 1503.1, AAMA 507, and NFRC 100 based on 1" clear high performance insulating glass, 1/4" Clear (E=0.040 #2), 1/2" Air Space, 1/4" Clear, having a center of glass  
U-factor of 0.29 BTU/HR/FT<sup>2</sup>/°F with an NFRC U-factor of 0.37 BTU/HR/ FT<sup>2</sup>/°F.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): 78, with a CRF<sub>g</sub> of 67.
- c. Thermal Transmittance U-Factor: 0.37 BTU/HR/FT<sup>2</sup>/°F or less.

8b. Thermal Performance:

- a. When tested in accordance with AAMA 1503.1, AAMA 507, and NFRC 100 based on 1-1/2" clear high performance insulating glass, 1/4" Cardinal E272 (e=0.042\*, #2) Heat Strengthened, 0.28" Gap, Aluminum Spacer (A1-D), 95% Krypton-Filled, 0.002 SMIONE, 0.35" Gap, Aluminum Spacer (A1-D), 95% Krypton-Filled, 0.003" Southwall Technologies, Inc. HM88 (e=0.110\*, #5), 0.28" Gap, Aluminum Spacer (A1-D), 95% Krypton-Filled, 1/4" Clear Heat-Strengthened having a center of glass U-factor of 0.10 BTU/HR/FT<sup>2</sup>/°F.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): 82
- c. Thermal Transmittance U-Factor: 0.20 BTU/HR/FT<sup>2</sup>/°F or less.

8c. Thermal Performance:

- a. When tested in accordance with AAMA 1503., AAMA 507, and NFRC 100 based on 2" clear high performance glass, 1/4" Viracon VE1-85 (e=0.02040\*, #2) Heat-Strengthened, 0.69" Gap, Aluminum Spacer (A1-D), Air-Filled\*, 1/4" Viracon VE1-85 (e=0.088\*, #4) Heat-Strengthened, 0.69" Gap, Aluminum Spacer (A1-D), Air-Filled\*, 1/4" Clear Heat-Strengthened, having a center of glass U-factor of 0.16 BTU/HR/FT<sup>2</sup>/°F.
- b. Condensation Resistance Factor (CRF<sub>f</sub>): 82
- c. Thermal Transmittance U-Factor: 0.24 BTU/HR/FT<sup>2</sup>/°F or less.

9. Acoustical Performance: When tested in accordance with AAMA 1801:

- a. Sound Transmission Class (STC) shall not be less than 32 for heat strengthened; 35 for laminated glazing.
- b. Outdoor-Indoor Transmission Class (OITC) shall not be less than 27 for heat strengthened; 30 for laminated glazing.

1.03 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Product Data: Submit product data for each type curtain wall series specified.
- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance / Control Submittals:
  1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  2. Installer Qualification Data: Submit installer qualification data.
- G. Closeout Submittals:
  1. Warranty: Submit warranty documents specified herein.
  2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

1.04 QUALITY ASSURANCE

- A. Qualifications:

1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  1. Mock-Up Size:
  2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
  3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval..
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

#### 1.05 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

#### 1.06 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS (Acceptable Manufacturers)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000
  1. Wausau Metals
  2. Kawneer
  1. Curtain Wall System: YKK AP YCW 750 XT Aluminum Curtain Wall System.
- B. Curtain Wall Framing System:
  1. Description: Framing shall be thermally broken. Horizontal and vertical framing members shall have a nominal face dimension of 2-1/2 inches. Depth as indicated on drawings. Framing system shall provide a flush glazed appearance on all sides with no protruding glass stops.
  2. Thermal Barrier: Provide continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non-structural thermal barriers are not acceptable.

#### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 and 6063-T6 Aluminum Alloys.
- B. Aluminum Sheet:
  - 1. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.
  - 2. Thermal Barrier: Provide YKK AP MegaTherm® continuous thermal barrier by means of 6/6 nylon polyamide glass fiber reinforced pressure extruded bars. Systems employing non-structural thermal barriers are not acceptable.

## 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Fasteners: Zinc plated steel concealed fasteners; Hardened aluminum alloys or AISI 300 series stainless steel exposed fasteners, countersunk, finish to match aluminum color.
  - 2. Sealant: Non-skinning type, AAMA 803.3
  - 3. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer; Glazing gaskets in accordance with ASTM C 864.

## 2.04 RELATED MATERIALS (Specified In Other Sections)

- A. Glass: Refer to Division 8 Glass and Glazing Section for glass materials.

## 2.05 FABRICATION

- A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

## 2.06 FINISHES AND COLORS

- A. High Performance Organic Coating Finish:
  - 1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with procedures and meeting AAMA 2605 specifications.
  - 2. Colors: Selected by Architect from the following:
    - a. Standard coating color charts.
  - 3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.
- B. Finishes Testing:
  - 1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
  - 2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions. The latest Installation Manual can be found at [www.ykkap.com](http://www.ykkap.com).

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

### 3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

### 3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
  - 1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials using nylon pads or bituminous coating.
  - 2. Shim and brace aluminum system before anchoring to structure.
  - 3. Verify curtain wall system allows water entering system to be collected in gutters and wept to the exterior. Verify weep holes are open, and metal joints are sealed in accordance with manufacturers installation instructions.
  - 4. Seal metal to metal curtain wall system joints using sealant recommended by system manufacturer.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of curtain wall system. Conduct test in accordance with AAMA 501.2.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 084413.1

**SECTION 085113**  
**ALUMINUM WINDOWS- EXTERIOR**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Operable Aluminum Window Systems
  - 1. YKK AP Series YES SSG TU Vent Operable Aluminum Window System.
  - 2. YKK AP Series YES 45 TU Front Set Storefront System.
- B. Related Sections:
  - 1. Sealants: Refer to Division 7 Joint Treatment Section for sealant requirements.
  - 2. Glass and Glazing: Refer to Division 8 Glass and Glazing Section for glass and glazing requirements.
  - 3. Single Source Requirement: All products listed below shall be by the same manufacturer.
    - b. Section 08 41 13 Aluminum-Framed Entrances & Storefronts.
    - c. Section 08 44 13.1 Glazed Aluminum Curtain Wall.

**1.02 TEST AND PERFORMANCE REQUIREMENTS - For Operable Windows**

- A. All test unit sizes and configurations shall conform to the minimum sizes in accordance with AAMA/WDMA/CSA/I.S.A 440, with a performance class of AW-PG65-C (Casement Out), AW-PG65-AP (Project Out). Windows shall also comply with the following specific performance requirements indicated.
  - 1. Air Infiltration: When tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa), completed window systems shall have maximum allowable infiltration of 0.10 CFM/FT<sup>2</sup> (1.85 m<sup>3</sup>/h·m<sup>2</sup>).
  - 2. Water Infiltration: No uncontrolled water other than condensation on indoor face of any component when tested in accordance with ASTM E 331 and E 547 at a minimum test pressure differential of 12 PSF (575 Pa) operable, 15 PSF (718 Pa) fixed.
  - 3. Uniform Load Structural Test: Provide aluminum window systems that comply with AAMA/WDMA/CSA 101/I.S. A440, voluntary specifications for aluminum windows guidelines for specified AW rated product.
  - 4. Forced Entry Test: When tested in accordance with ASTM F 588, shall have a minimum performance grade of 10.
  - 5. Thermal Cycling Test: When tested in accordance with AAMA 910, All AW products shall be subjected to six thermal cycles, ranging from 0 degrees F (-18 degrees C) to 180 degrees F (82 degrees C), at 8 hours per cycle per AAMA 501.5.
  - 6. Thermal Performance: When tested in accordance with AAMA 1503 and NFRC 100:
    - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 69 (Casement or Project).
    - b. Thermal Transmittance U Value: 0.41 (Casement or Project) BTU/HR/FT<sup>2</sup>/°F or less.
  - 7. Acoustical Performance: When tested in accordance with ASTM E 1425, the Sound Transmission Class (STC), and Outdoor□Indoor Transmission Class (OITC) shall not be less than 35 STC and 28 OITC.
  - 8. Life Cycle Testing: When tested in accordance with AAMA 910, there shall be no damage to fasteners, hardware parts, or any other damage that would cause the specimen to be

inoperable. Resistance to air leakage and water penetration resistance test results shall not exceed the gateway performance.

### 1.03 TEST AND PERFORMANCE REQUIREMENTS - For Fixed Windows

- A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.
1. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT<sup>2</sup> (1.10 m<sup>3</sup>/h·m<sup>2</sup>) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
  2. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 12 PSF (575 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.
  3. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
    - a. Exterior Walls:
      - 1) Positive Pressure:
      - 2) Negative Pressure:
    - b. Interior Walls (Pressure Acting in Either Direction):
  4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
    - a. Without Horizontals: L/175 or 3/4" (19.1mm) maximum. .
    - b. With Horizontals: L/175 or L/240 + 1/4" (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).
  5. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
  6. Thermal Performance: When tested in accordance with AAMA 507, AAMA 1503 and NFRC 100:
    - a. Condensation Resistance Factor (CRF<sub>f</sub>): A minimum of 68.
    - b. Thermal Transmittance U Value: 0.40 BTU/HR/FT<sup>2</sup>/°F or less.
  7. Acoustical Performance: When tested in accordance with ASTM E 90, AAMA 1801:
    - a. Sound Transmission Class (STC) shall not be less than: 32 Annealed, 36 laminated.
    - b. Outdoor-Indoor Transmission Class (OITC) shall not be less than: 1" IGU; 27, 1" laminated; 30.

### 1.04 SUBMITTALS

- A. General: Prepare, review, approve, and submit specified submittals in accordance with [Conditions of the Contract] and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in [Conditions of the Contract].
- B. Product Data: Submit product data for each type window series specified.

- C. Substitutions: Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors and textures.
- E. Samples: Submit verification samples for colors on actual aluminum substrates indicating full color range expected in installed system.
- F. Quality Assurance/Control Submittals:
  - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Installer Qualification Data: Submit installer qualification data.
- G. Close-out Submittals:
  - 1. Warranty: Submit warranty documents specified herein.
  - 2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Close-out (Project Record Documents) Section.

## 1.05 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
  - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction process.
- B. Mock-Ups (Field Constructed): Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, and workmanship standard.
  - 1. Mock-Up Size: Full Size
  - 2. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

## 1.06 PROJECT CONDITIONS / SITE CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

## 1.07 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
  - 1. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS (Acceptable Manufacturers/Products)

- A. Bases of Design: YKK AP America Inc. Telephone: (678) 838-6000;
  - 1. Operable Window System: YKK AP YES SSG TU Vent Operable Aluminum Window System.
  - 2. Fixed Window, Storefront System: YKK AP YES 45 TU Front Set Storefront System.
- B. Other Manufacturers that may be use only if approved by Architect as equal to all performance criteria and profile.
  - a. Wausau Metals
  - b. Kawneer
- C. Operable Window System:
  - 1. AAMA Designation: AW-PG65-C (Casement Out) and AW-PG65-AP (Project Out).
  - 2. Description: The windows shall be extruded aluminum; 3-1/2" frame depth; Vents shall be flush with frame and have mitered corner construction; Factory-assembled.
  - 3. Configuration: The windows shall be Casement Outswing, or Project Out Ventilator.
  - 4. Glazing: 1" insulating units; Exterior: EPDM weather seal; Interior: polyurethane foam spacer and structural silicone sealant; Factory or bench glazed.
- D. Storefront Framing System:
  - 1. Description: Front set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.
  - 2. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.
  - 3. Thermal Barrier: Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK ThermoBond Plus®. Systems employing non-structural thermal barriers are not acceptable.

### 2.02 MATERIALS

- A. Extrusions: ASTM B 221 (ASTM B 221M), 6063-T5 Aluminum Alloy.
- B. Aluminum Sheet:
  - 2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080" (1.95 mm) minimum thickness.

### 2.03 ACCESSORIES

- A. Manufacturer's Standard Accessories:
  - 1. Hardware: Standard concealed stainless steel 4 bar hinges for casement outswing and projected vents. cam handles and strikes (color to be selected), black nylon snubbers.
  - 2. Fasteners: All fasteners to be AISI 300 series (except for self-drilling, which are to be AISI 400 series) stainless steel.
  - 3. Sealant: Non-skinning type, AAMA 803.3
  - 4. Glazing: Setting blocks, edge blocks, and spacers in accordance with ASTM C 864, shore durometer hardness as recommended by manufacturer.
  - 5. 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.

## 2.04 FABRICATION

A. Shop Assembly: Fabricate and assemble units with joints only at intersection of aluminum members with hairline joints; rigidly secure, and sealed in accordance with manufacturer's recommendations.

## 2.05 FINISHES AND COLORS

A. High Performance Organic Coating Finish:

1. Fluoropolymer Type: Factory applied two-coat 70% Kynar resin by Arkema or 70% Hylar resin by Solvay Solexis, fluoropolymer based coating system, Polyvinylidene Fluoride (PVF-2), applied in accordance with YKK AP procedures and meeting AAMA 2605 specifications.
2. Colors: Selected by Architect from the following:
  - a. Standard coating color charts.
3. Warranty Period: Manufacturer's 20 year warranty commencing on the substantial date of completion for the project.

D. Finishes Testing:

1. Apply 0.5% solution NaOH, sodium hydroxide, to small area of finished sample area; leave in place for sixty minutes; lightly wipe off NaOH; Do not clean area further.
2. Submit samples with test area noted on each sample.

## PART 3 EXECUTION

### 3.01 MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS

A. Compliance: Comply with manufacturer's product data, including latest product technical bulletins, installation instructions, and product carton instructions.

### 3.02 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

### 3.03 PREPARATION

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

### 3.04 INSTALLATION

A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.

1. Protect aluminum members in contact with masonry, steel, concrete, or dissimilar materials.
2. Shim and brace aluminum system before anchoring to structure.

3. Provide sill flashing at exterior storefront systems. Extend extruded flashing continuous with splice joints; set in continuous beads of sealant.
4. Verify storefront system allows water entering system to be collected in gutters and wept to exterior. Verify metal joints are sealed in accordance with manufacturers installation instructions.
5. Locate expansion mullions where indicated on reviewed shop drawings.
6. Seal metal to metal window system joints using sealant recommended by system manufacturer.

### 3.05 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Upon request, provide manufacturer's field service consisting of site visit for inspection of product installation in accordance with manufacturer's instructions.
- B. Field Test: Conduct field test to determine watertightness of window system. Conduct test in accordance with AAMA 502.

### 3.06 ADJUSTING AND CLEANING

- A. Adjusting: Adjust operating items as recommended by manufacturer.
- B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- C. Protection: The General Contractor shall protect installed product's finish surfaces from damage during construction.

END OF SECTION 085113



Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

**Geddis Architects**

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Construction Manager

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914-769-3200

Structural Engineer

ODEH ENGINEERS

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Civil Engineer

WESTON & SAMPSON

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Acoustical/AV Consultant

DP DESIGN CAVANAUGH TOCCI

12 Cold Spring Street 327 F Boston Post Rd

Providence, RI 02906 Sudbury, MA 01776-3027

401-861-3218 978-443-7871

SED#: 6618-0001-0001-022

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Osborn Elementary School

10 Osborn Road, Rye NY 10580

AUDIOVISUAL FLOOR PLAN -  
LIBRARY

PROJECT 2

SEAL & SIGNATURE

DATE: 2/11/2021

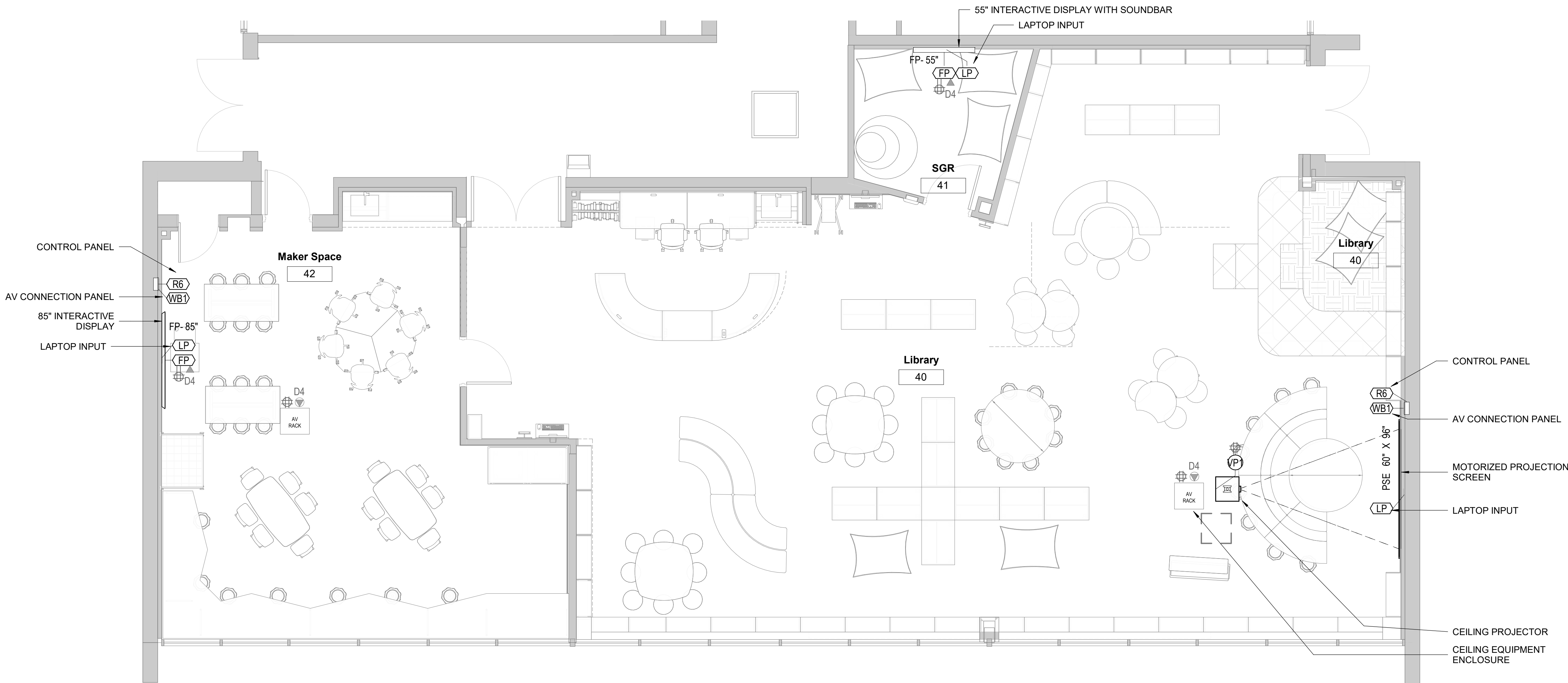
PROJECT No: 9200

DRAWING BY: JMM

CHK BY: MJM

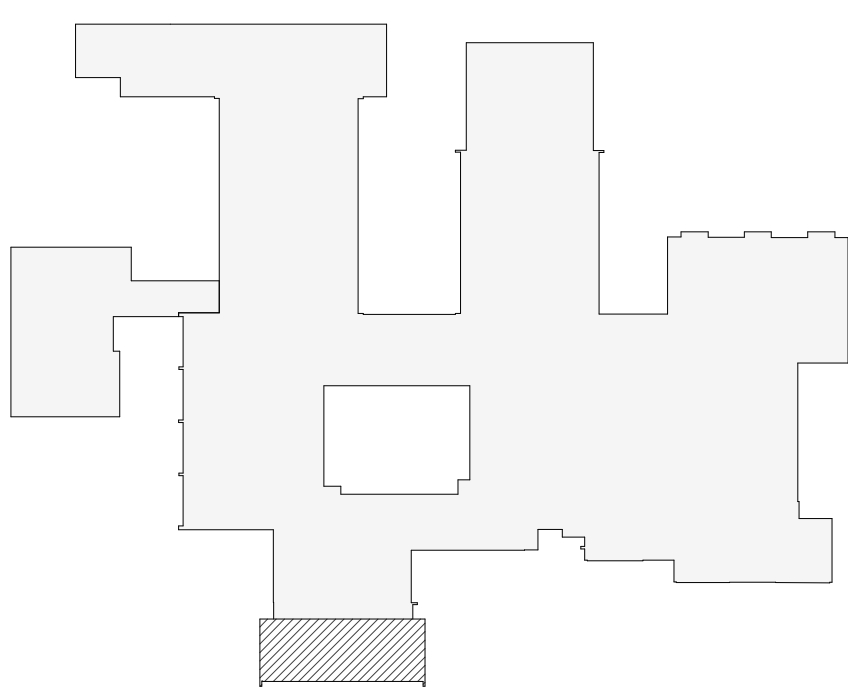
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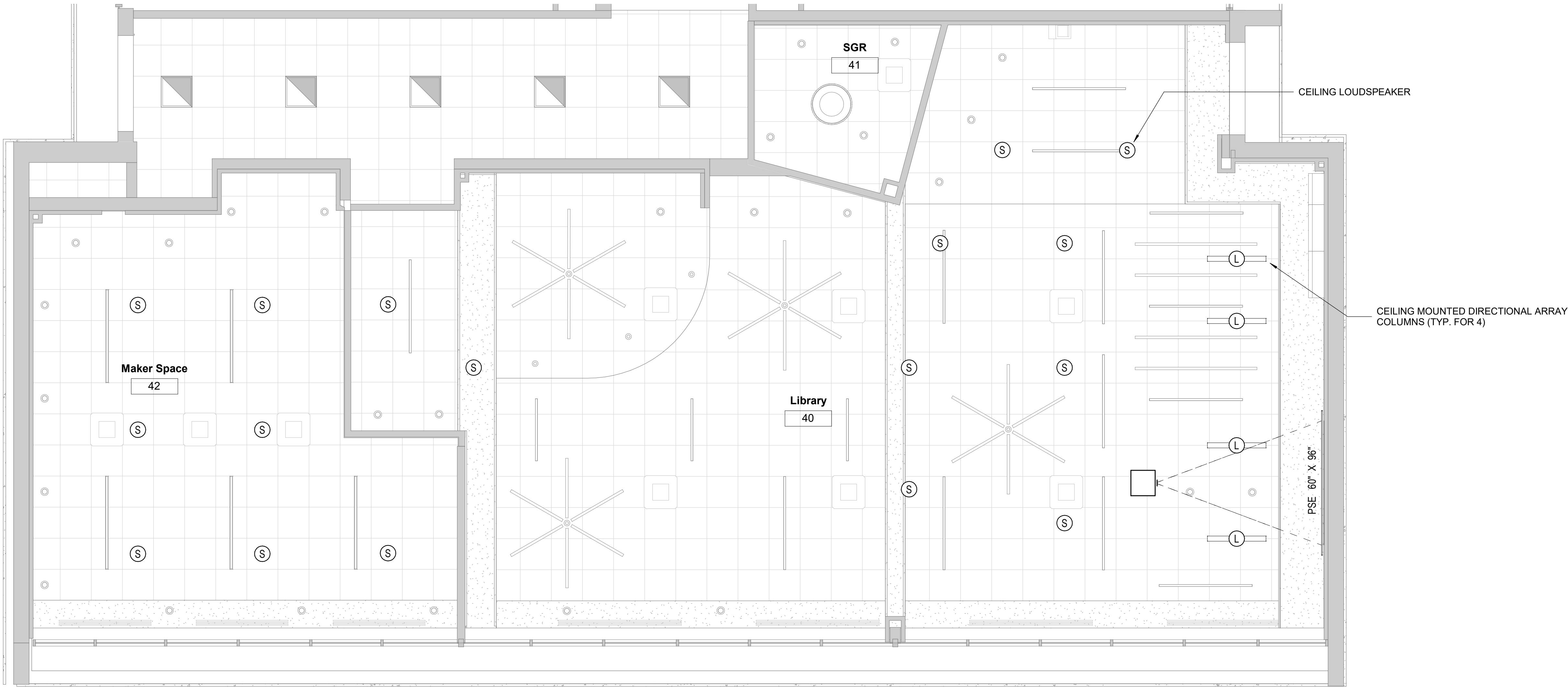
1 AUDIOVISUAL FIRST FLOOR PLAN - LIBRARY  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION  
SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



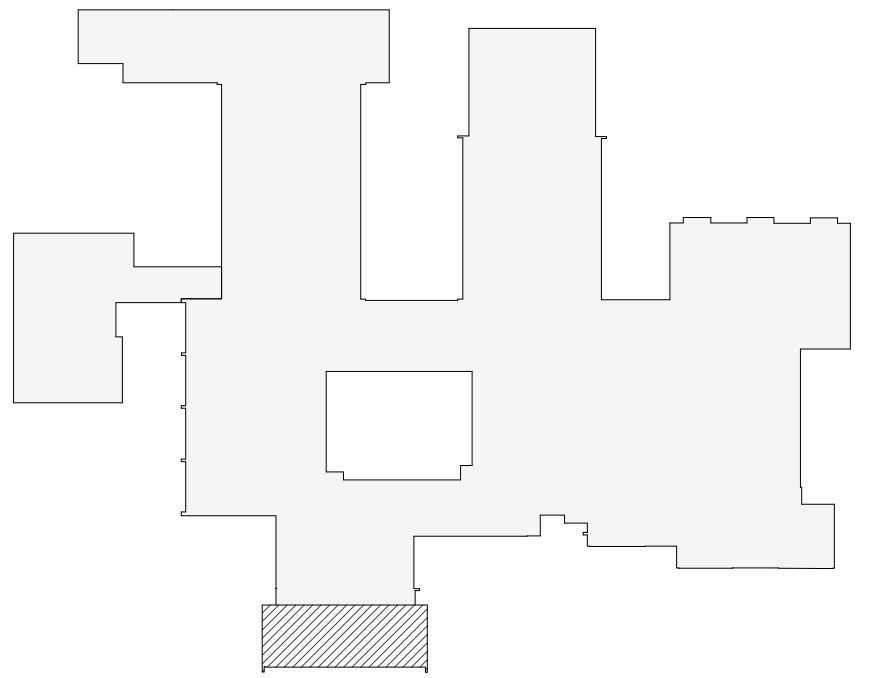
OSBORN PHASE 2 KEY PLAN

1" = 80'



1 AUDIOVISUAL RCP - LIBRARY  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



OSBORN PHASE 2 KEY PLAN  
1" = 80'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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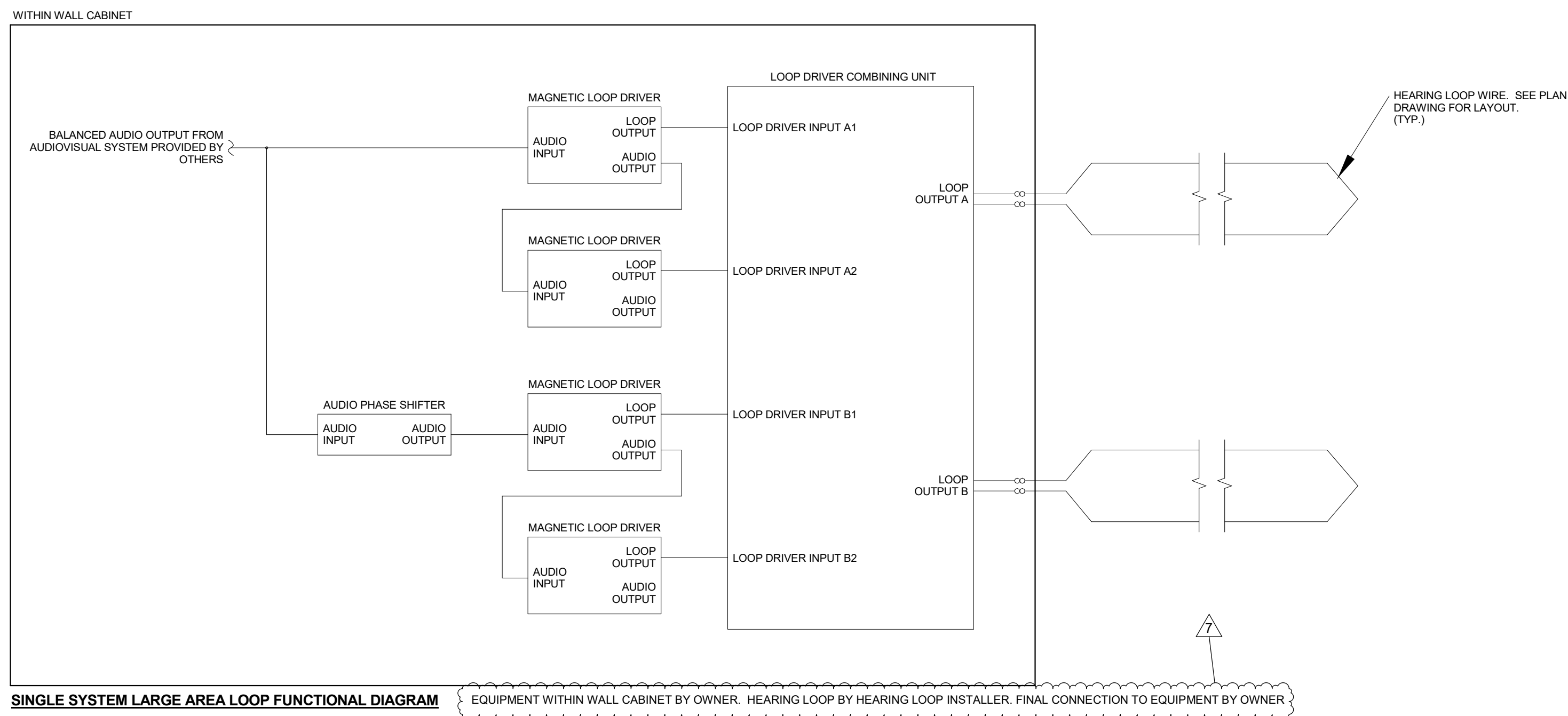
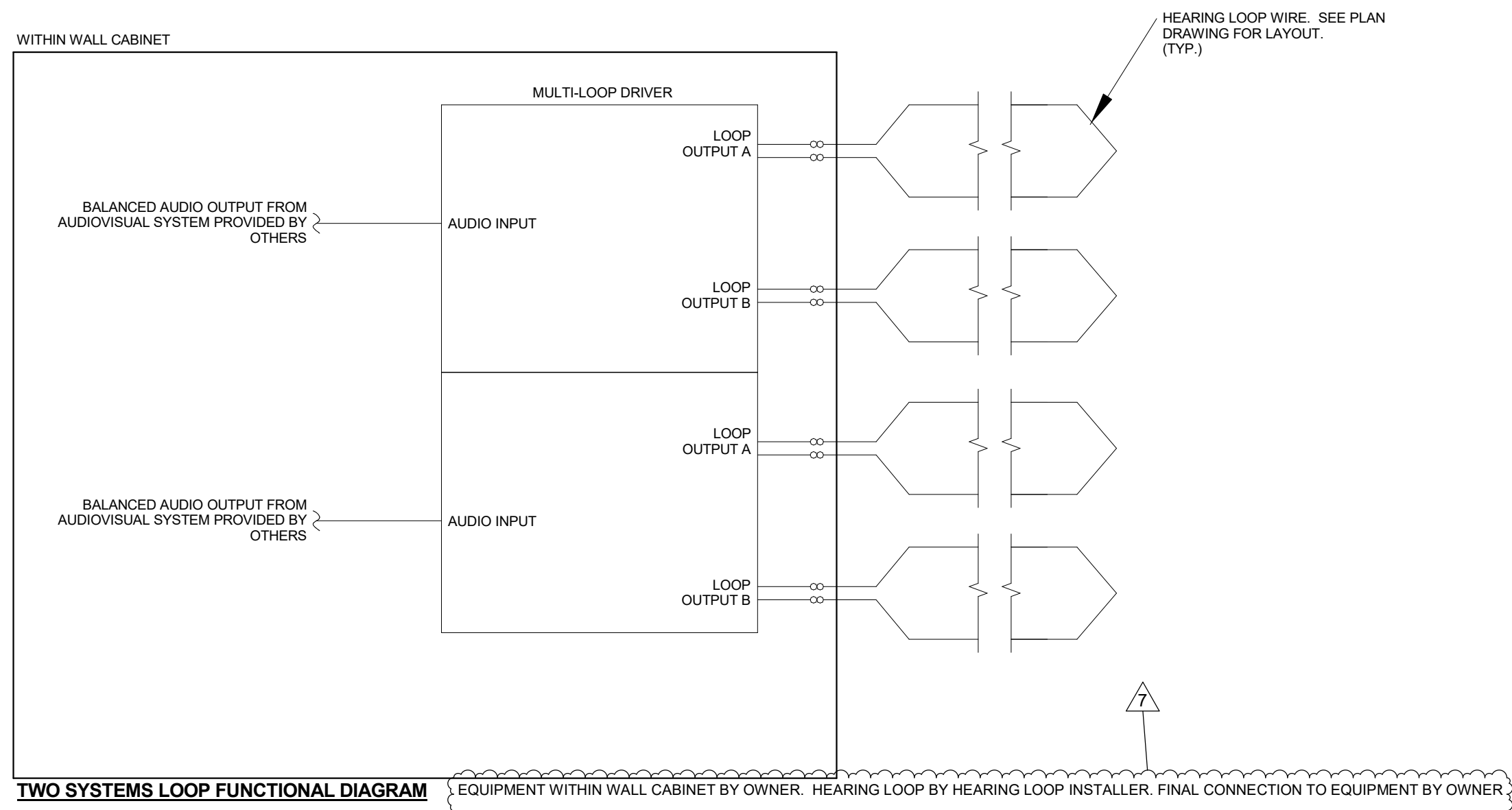
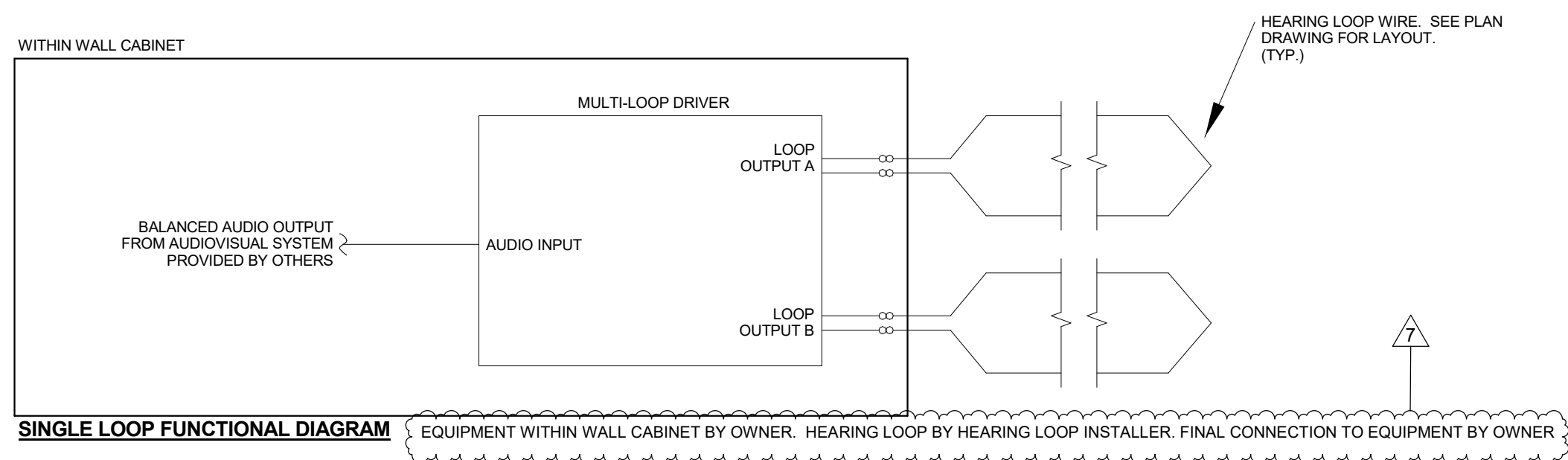
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914.328.0900 GENERAL@BGA-ENG.com www.BGA-ENG.com

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401-861-3218 978-443-7871

SED#: 6618-0001-0001-022

PROJECT  
**Rye City Schools**  
555 Theodore Fremd Ave, Suite B-101  
**Osborn Elementary School**  
10 Osborn Road, Rye NY 10580

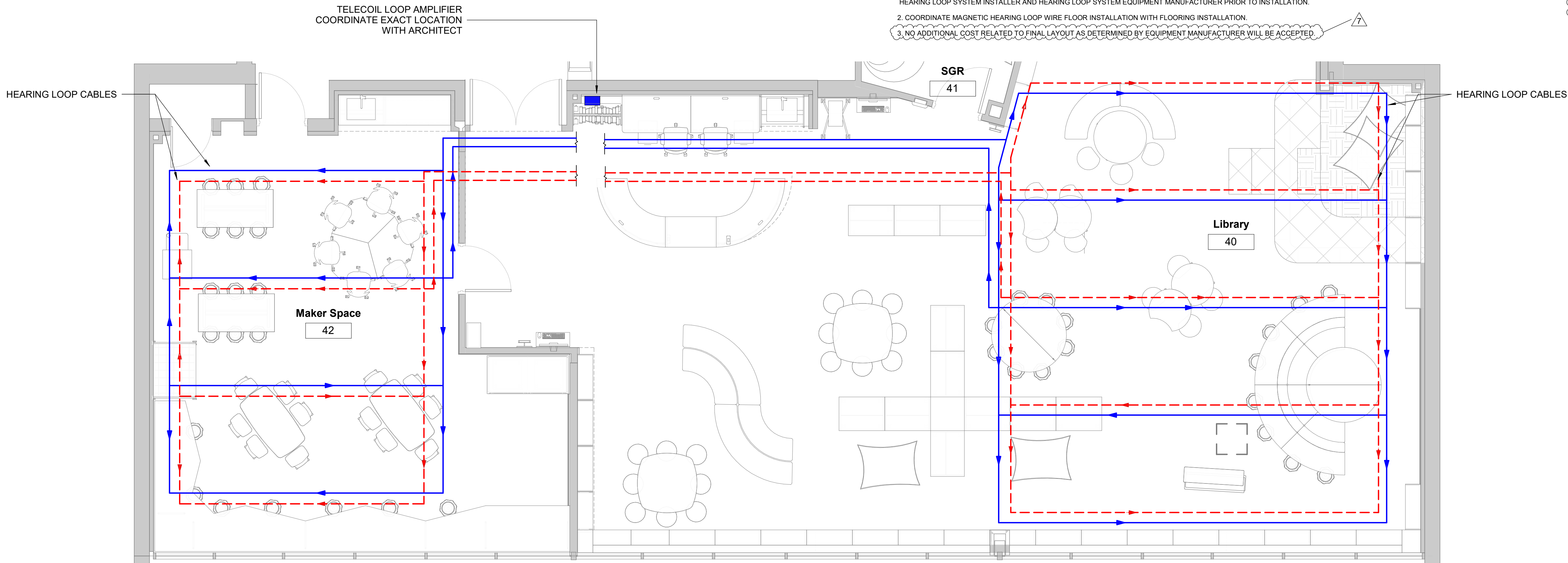
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PROJECT 2  
SEAL & SIGNATURE DATE: 2/11/2021  
PROJECT No: 9200  
DRAWING BY: JMM  
CHK BY: MJM  
DWG No: AVE2-112



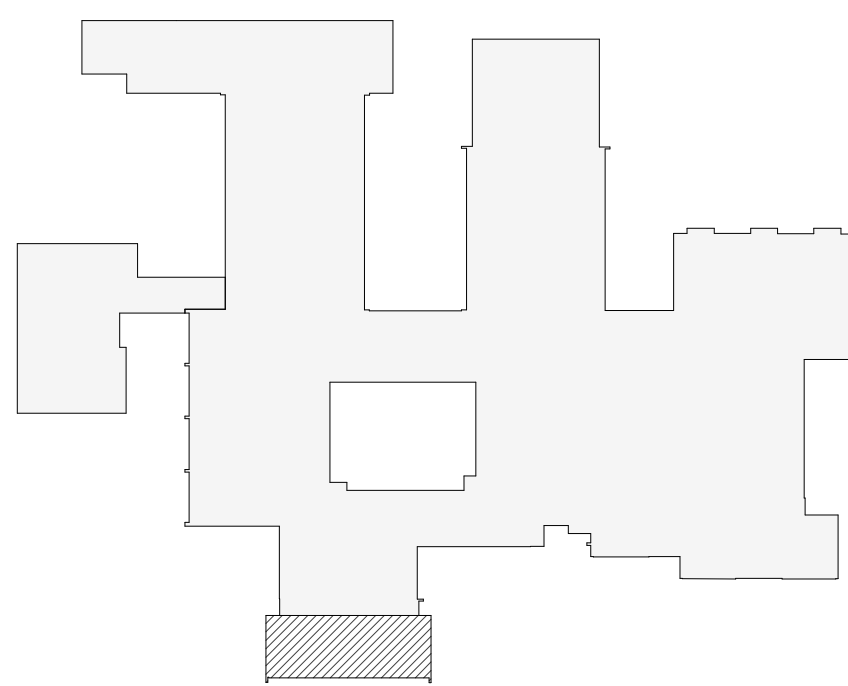
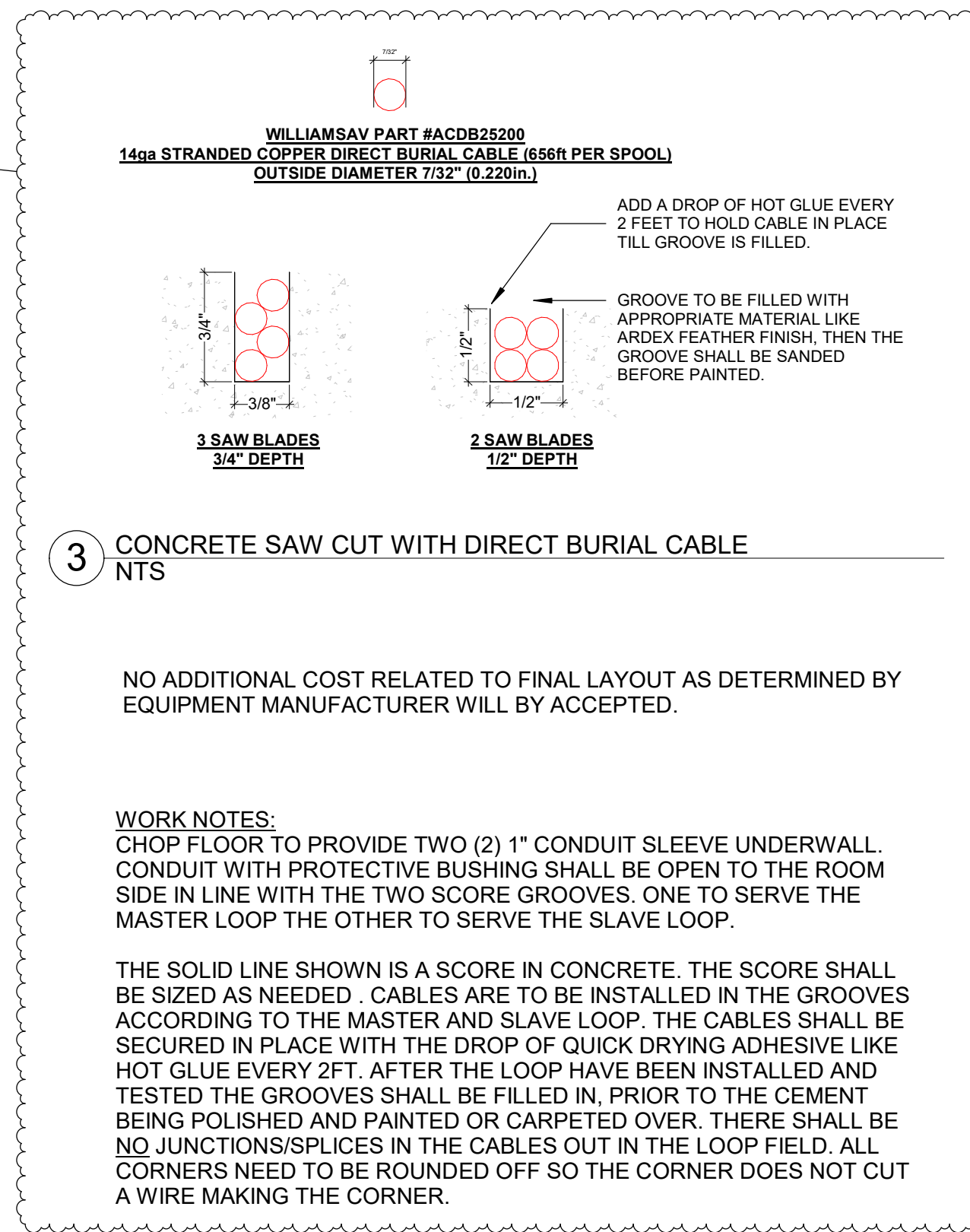
2 HEARING LOOP DIAGRAMS  
NTS

**MAGNETIC HEARING LOOP WIRE INSTALLATION NOTES:**

1. MAGNETIC HEARING LOOP SPACING, LAYOUT, AND ROUTING ARE CONCEPTUAL ONLY. ACTUAL SPACING, LAYOUT, AND ROUTING TO BE DETERMINED BY HEARING LOOP SYSTEM INSTALLER AND HEARING LOOP SYSTEM EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
2. COORDINATE MAGNETIC HEARING LOOP WIRE FLOOR INSTALLATION WITH FLOORING INSTALLATION.
3. NO ADDITIONAL COST RELATED TO FINAL LAYOUT AS DETERMINED BY EQUIPMENT MANUFACTURER WILL BE ACCEPTED.



1 HEARING LOOP SYSTEM LOOP WIRE LAYOUTS - LIBRARY  
1/4" = 1'-0"



OSBORN PHASE 2 KEY PLAN  
1" = 80'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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Architects

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loga

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401-861-3218 978-443-7871

SED#: 6618-0001-0001-022

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Osborn Elementary School

10 Osborn Road, Rye NY 10580

HEARING LOOP SYSTEM LOOP  
WIRE LAYOUTS AND  
DIAGRAMS - LIBRARY

PROJECT 2A

SEAL & SIGNATURE

DATE: 2/11/2021

PROJECT No: 9200

DRAWING BY: JMM

CHK BY: MJM

DWG No: AVE2-202

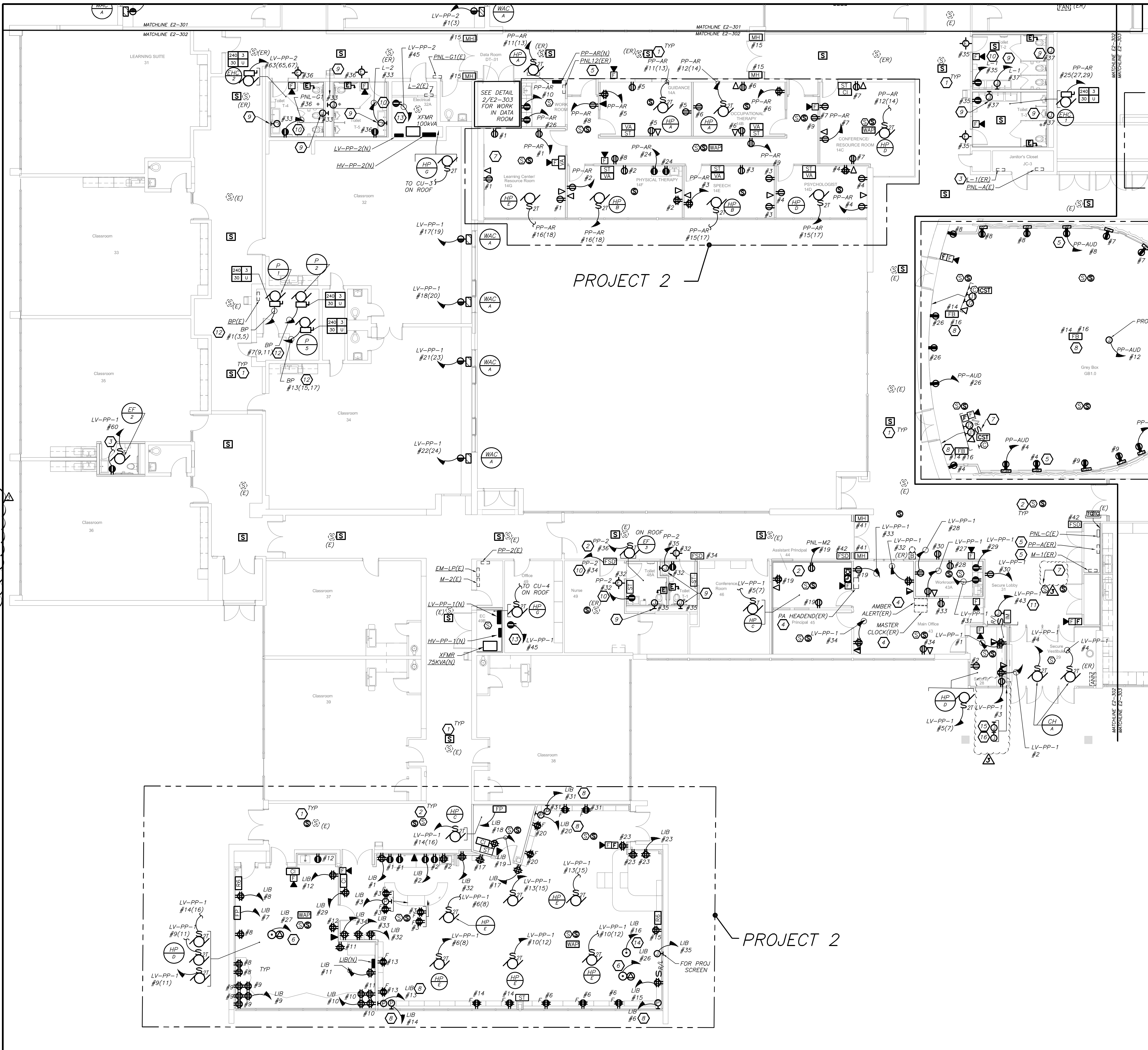
# GENERAL NOTES:

1. REFER TO ELECTRICAL RISER DIAGRAMS ON DRAWING E2-501 FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULES ON DRAWINGS E2-601 AND E2-602 FOR BRANCH CIRCUITING INFORMATION.
3. REFER TO DRAWINGS E2-700 SERIES FOR DETAILS.
4. EXISTING BUILDING HAS FULL FIRE ALARM COVERAGE, CONSISTING OF MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, HORN/STROBES, STROBES, MAGNETIC DOOR HOLDERS ETC. AREAS OF WORK ONLY SHOWN WITH NECESSARY MODIFICATIONS.

# WORK NOTES:

1. PROVIDE NEW SURFACE MOUNTED PUBLIC ADDRESS SYSTEM SPEAKERS THROUGH OUT THE CORRIDOR WITH MIN SPACE OF 30' BETWEEN EACH SPEAKERS. PROVIDE ALL NECESSARY ACCESSORIES IN THE HEADEND LOCATED IN THE MAIN OFFICE. PROVIDE NEW PLENUM RATED P.A. WIRING ABOVE HUNG CEILING, PLENUM RATED WIRING IN EMT IN EXPOSED UNFINISHED AREAS AND PLENUM RATED WIRING IN WIREMOLD IN EXPOSED FINISHED AREA.
2. PROVIDE NEW SMOKE DETECTORS IN THE CORRIDORS AS INDICATED. ALL NEW FIRE ALARM WIRING TO BE CONNECTED TO NEAREST EXISTING LOOPS IN THE AREA.
3. CIRCUIT TO THE EXISTING CIRCUIT IN THE AREA.
4. RELOCATE EXISTING PUBLIC ADDRESS HEADEND, MASTER CLOCK, AND AMBER ALERT HEADEND TO NEW LOCATIONS AS SHOWN. REFER TO RISER DRAWINGS ON E2-501 FOR ADDITIONAL INFORMATION.
5. RELOCATE EXISTING PANELBOARD TO NEW LOCATION AS SHOWN. EXTEND ALL BRANCH WIRING TO NEW LOCATION. PROVIDE ALL NEEDED ACCESSORIES FOR COMPLETE FUNCTIONAL INSTALLATION.
6. CIRCUIT FOR CEILING MOUNTED POWER OUTLET FOR AV RACK. REFER TO AUDIO VISUAL DRAWINGS AVE2 SERIES FOR ADDITIONAL INFORMATION.
7. NOT USED
8. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH FURNITURE LAYOUT. COORDINATE WITH ARCHITECT BEFORE THE START OF ANY WORK.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION TO SERVE SINK POWER SUPPLY FOR FAUCET AND AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANYWORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
10. PROVIDE 2#12+1#12G IN 3/4" CONDUIT TO INDICATED PANELBOARD. PROVIDE NEW 1P-20 AMP CIRCUIT BREAKER IN AVAILABLE SPACE. NEW CIRCUIT BREAKER SHALL MATCH EXISTING PANEL FRAME SIZE, TYPE AND AIC RATING.
11. PROVIDE POWER FOR FIRE SHUTTERS, AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INSTALLED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN.
12. PROVIDE NEW 30 AMP-3P BREAKER IN EXISTING PNL-BP. MATCH EXISTING. PROVIDE 3#10+1#10G-3/4" FROM PUMPS TO INDICATED PANELBOARD.
13. PROVIDE GFI OUTLET FOR CONDENSATE PUMP. COORDINATE EXACT MOUNTING HEIGHTS WITH HVAC CONTRACTOR.
14. CIRCUIT FOR CEILING MOUNTED POWER OUTLET FOR PROJECTOR. REFER TO AUDIO VISUAL DRAWINGS AVE2 SERIES FOR ADDITIONAL INFORMATION.
15. PROVIDE SURFACE MOUNTED EXTERIOR FINISHED JUNCTION BOX AT 48" AFF FOR FUTURE CARD READER. CORE DRILL THROUGH STONE WALL AND PROVIDE 3/4" CONDUIT SLEEVE AND TRANSITIONS INTO WIREMOLD 700 UP TO ABOVE NEW SHEETROCK CEILING. WIREMOLD SHALL TRANSITION TO 1" CONDUIT AND RUN CONDUIT TO ABOVE CEILING IN SECURITY LOBBY 31 INCLUDE DRAGWIRE. COORDINATE EXACT LOCATION WITH OWNER BEFORE THE START OF ANY WORK.
16. PROVIDE SURFACE MOUNTED EXTERIOR FINISHED JUNCTION BOX AT 60" AFF FOR FUTURE AIR PHONE. CORE DRILL THROUGH STONE WALL AND PROVIDE 3/4" CONDUIT SLEEVE AND TRANSITIONS INTO WIREMOLD 700 UP TO ABOVE NEW SHEETROCK CEILING. WIREMOLD SHALL TRANSITION TO 1" CONDUIT AND RUN CONDUIT TO ABOVE CEILING IN SECURITY LOBBY 31 INCLUDE DRAGWIRE. COORDINATE EXACT LOCATION WITH OWNER BEFORE THE START OF ANY WORK.
17. EC TO MOUNT SMOKE DETECTOR ON THE SIDE WALL WITHIN THE SKYLIGHT.

**SPECIAL NOTE:** THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACT LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX AND LIBRARY. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.



PARTIAL FIRST FLOOR POWER PLAN  
(NEW WORK) (PROJECT 1 & 2)

1  
E2-302



Revision Schedule		
No.	Description	Date
1	SED Submission	09/15/2020
3	ISSUED FOR BID	01/19/2021
6	BID ADDENDUM #3	02/11/2021

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AV Consultant  
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SED#: 6618-0001-0001-023

PROJECT

Rye City Schools  
555 Theodore Fremd Ave, Suite B-101  
Osborn Elementary School

10 Osborn Road, Rye NY 10580

PART FIRST FLOOR  
POWER PLAN

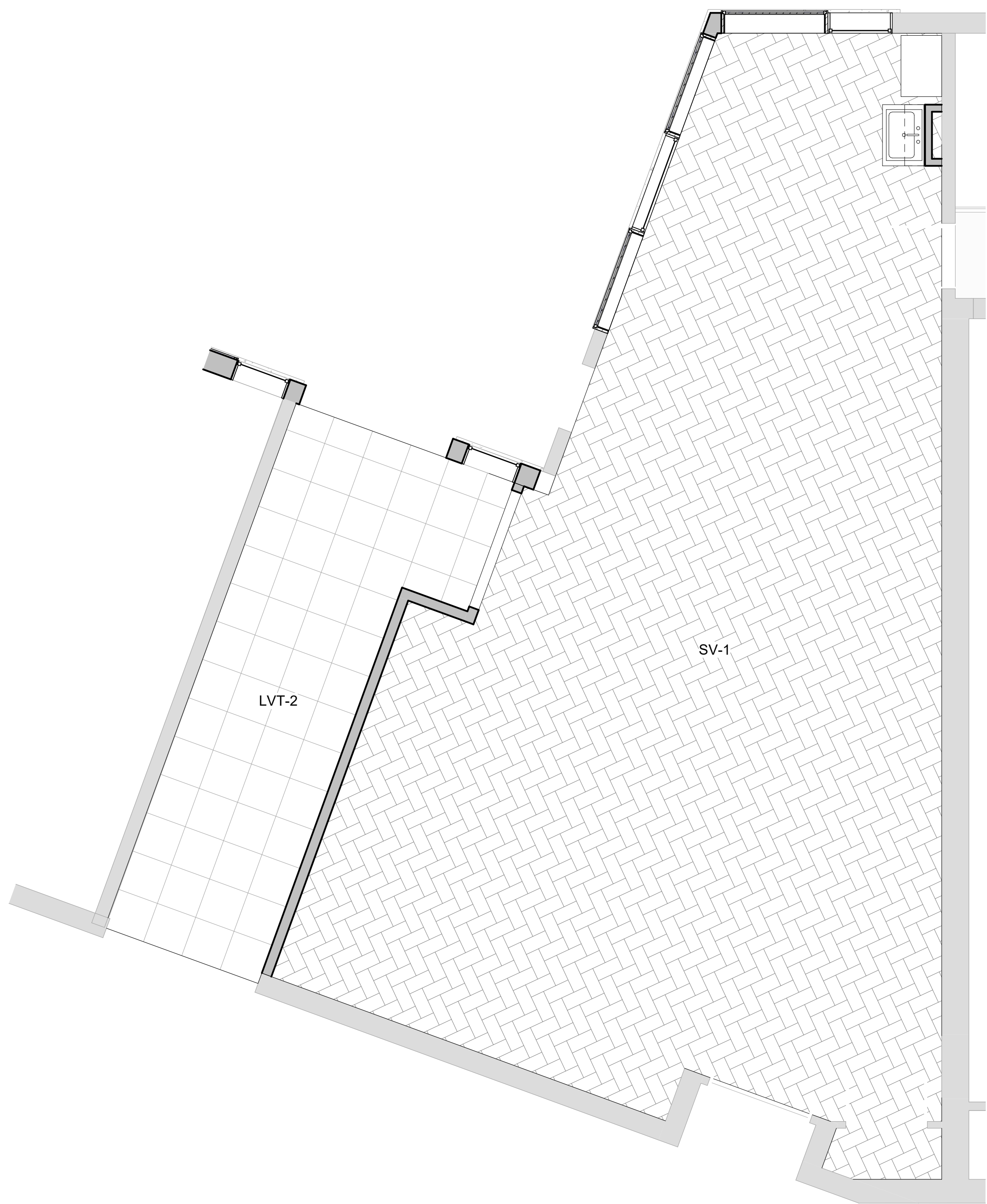
PROJECT 1 & 2

SEAL & SIGNATURE	DATE:
	12/18/19
	PROJECT No: 9200
	DRAWING BY: BGA
	CHK BY: BGA
	DWG No: E2-302

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

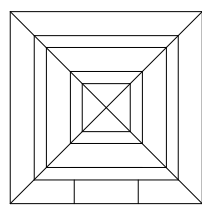


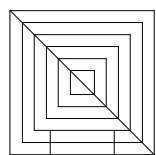
1 Music Classroom Reflected Ceiling Plan  
SCALE: 1/4" = 1'-0"

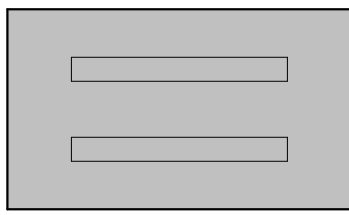


2 Music Classroom First Floor Finish Plan  
SCALE: 1/4" = 1'-0"

**LEGEND**

 SUPPLY DIFFUSER: SEE MECH. DWGS FOR INFO

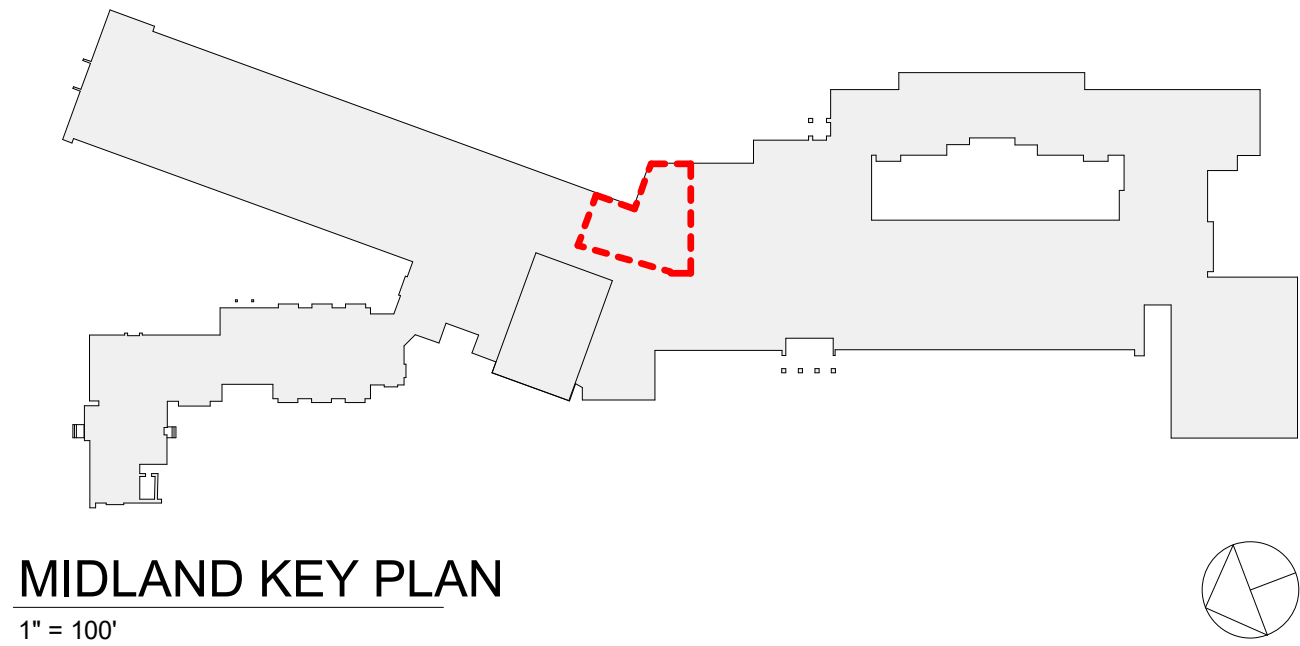
 RETURN FAN:SEE MECH. DWGS FOR INFO

 CEILING MOUNTED CABINET UNIT HEATER

**NOTES**

1. SEE DRAWING A2-400 FOR CEILING FIXTURE AND MATERIAL LEGENDS.

2. SEE DRAWING A2-700 FOR FINISH MATERIALS LEGEND.



Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
7	BID ADDENDUM #3	02/11/2021

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**loga**

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SED#: 6618-0001-0003-025

**PROJECT**

**Rye City Schools**  
555 Theodore Fremd Ave, Rye, NY 10580

**Midland Elementary School**  
312 Midland Ave, Rye NY 10580

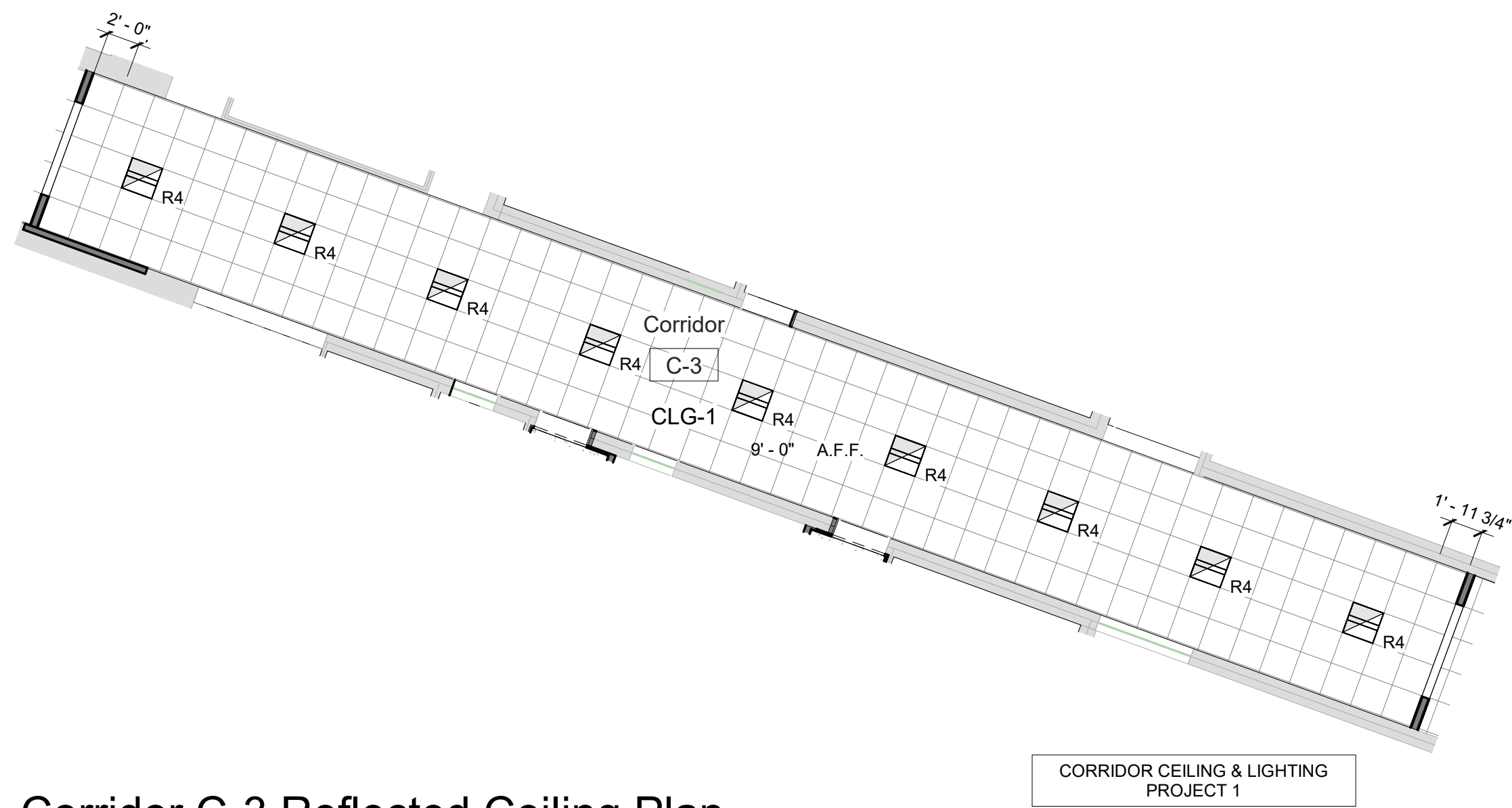
**MUSIC ROOM REFLECTED CEILING & FLOOR FINISH PLAN**

**PROJECT 1**

SEAL & SIGNATURE | DATE: 02/27/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-508

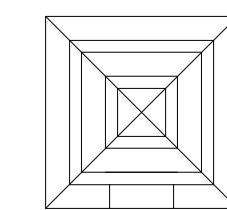


1 Classrooms 1-12 & 14 & Corridor C-4 Reflected Ceiling Plan  
SCALE: 1/8" = 1'-0"

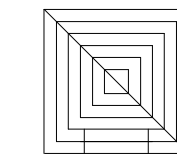


2 Corridor C-3 Reflected Ceiling Plan  
SCALE: 1/8" = 1'-0"

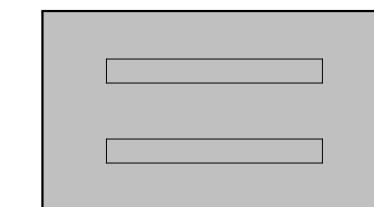
#### LEGEND



SUPPLY DIFFUSER: SEE MECH. DWGS FOR INFO



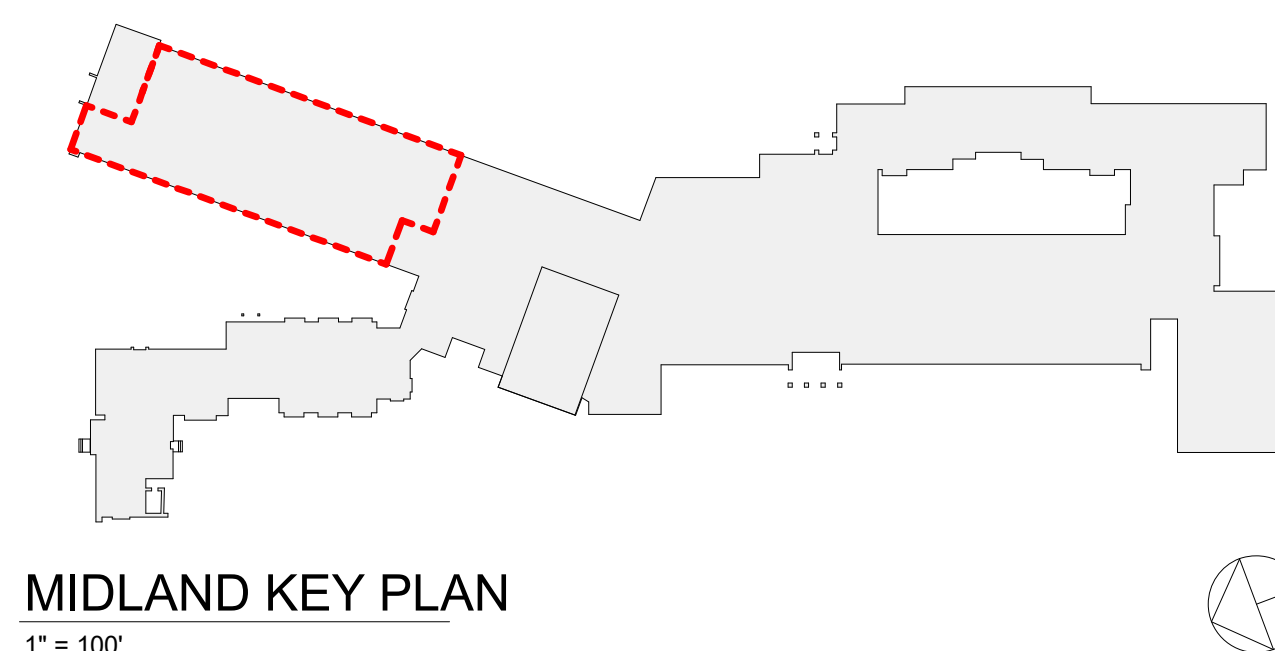
RETURN FAN: SEE MECH. DWGS FOR INFO



CEILING MOUNTED CABINET UNIT HEATER

#### NOTES

1. SEE DRAWING A2-400 FOR CEILING FIXTURE AND MATERIAL LEGENDS.



Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
7	BID ADDENDUM #3	02/11/2021

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SED#: 6618-0001-0003-025

PROJECT

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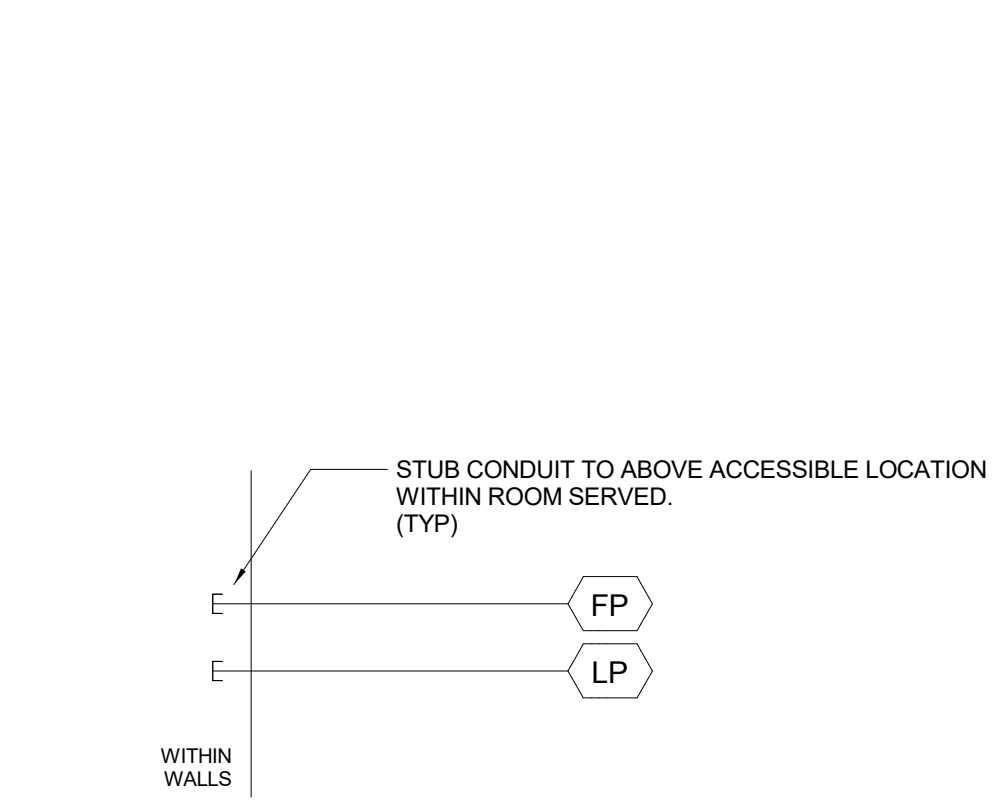
CLASSROOMS 1-12  
REFLECTED CEILING PLAN

PROJECT 1 & 1C

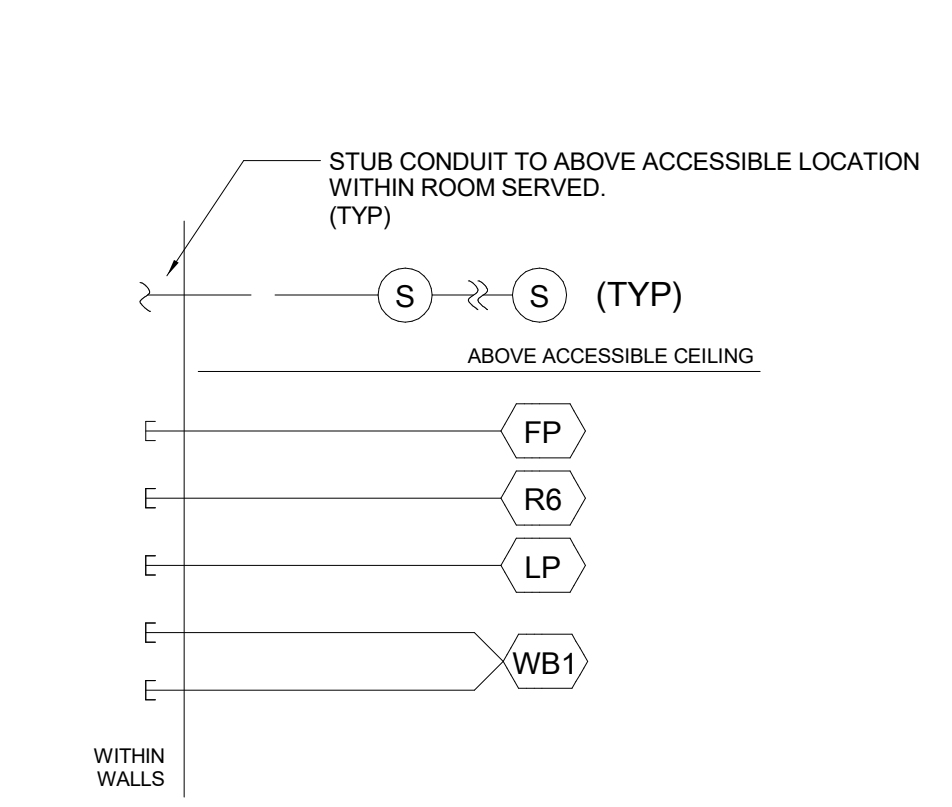
SEAL & SIGNATURE DATE: 02/28/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-510

AUDIOVISUAL DEVICE KEY			
DEVICE	DESCRIPTION	BACK BOX DESCRIPTION	MOUNTING HEIGHT ADVICE
FP	FLAT PANEL DISPLAY	LARGE IN-WALL JUNCTION BOX WITH FLANGE	DIRECTED BY ARCHITECT
LP	LAPTOP CONNECTION	TWO-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL 18" AFF
PSE	PROJECTION SCREEN	ONE GANG ELECTRICAL BOX	WALL MOUNTED, AS DIRECTED BY ARCHITECT
R6	TOUCH CONTROL PANEL	SINGLE-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL AT STANDARD SWITCH HEIGHT. ORIENT BOX WITH LONG DIMENSION HORIZONTAL.
S	CEILING LOUDSPEAKER, FLUSH	CEILING LOUDSPEAKER	FLUSH MOUNTED IN CEILING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
VP1	CEILING MOUNTED VIDEO PROJECTOR	ONE GANG ELECTRICAL BOX	AT CEILING
WB1	AV CONNECTION PLATE	FOUR-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL 18" AFF

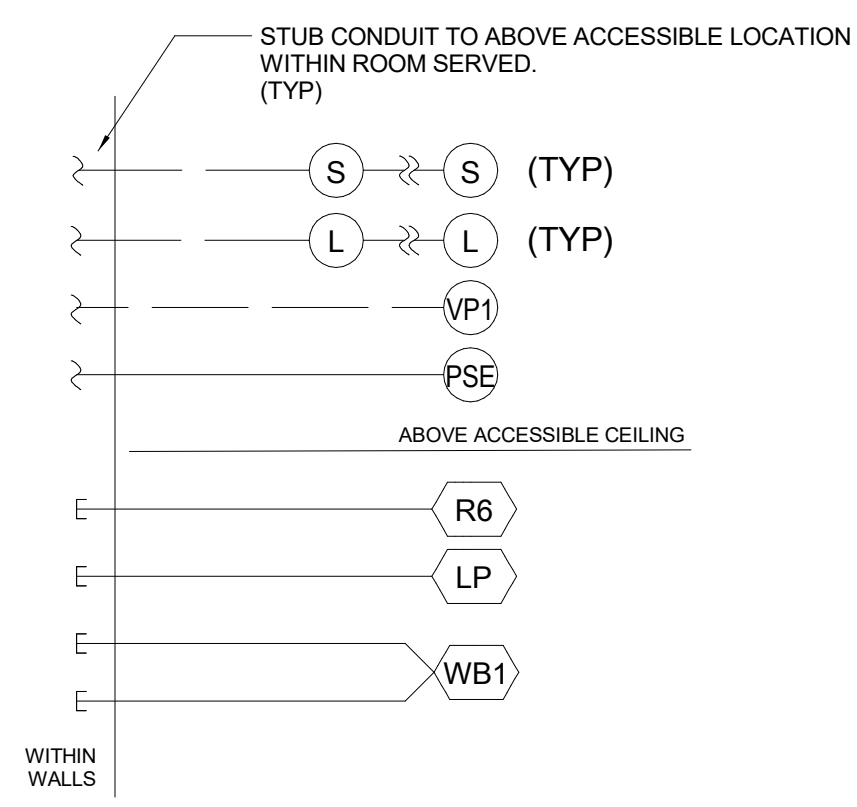
AUDIOVISUAL SHEET LIST	
SHEET NUMBER	SHEET NAME
AVE2-001	AUDIOVISUAL KEYS, NOTES AND SCHEDULES
AVE2-102	AUDIOVISUAL FIRST FLOOR PLAN - LIBRARY
AVE2-112	AUDIOVISUAL FIRST FLOOR REFLECTED CEILING PLAN - LIBRARY
AVE2-201	HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - LIBRARY



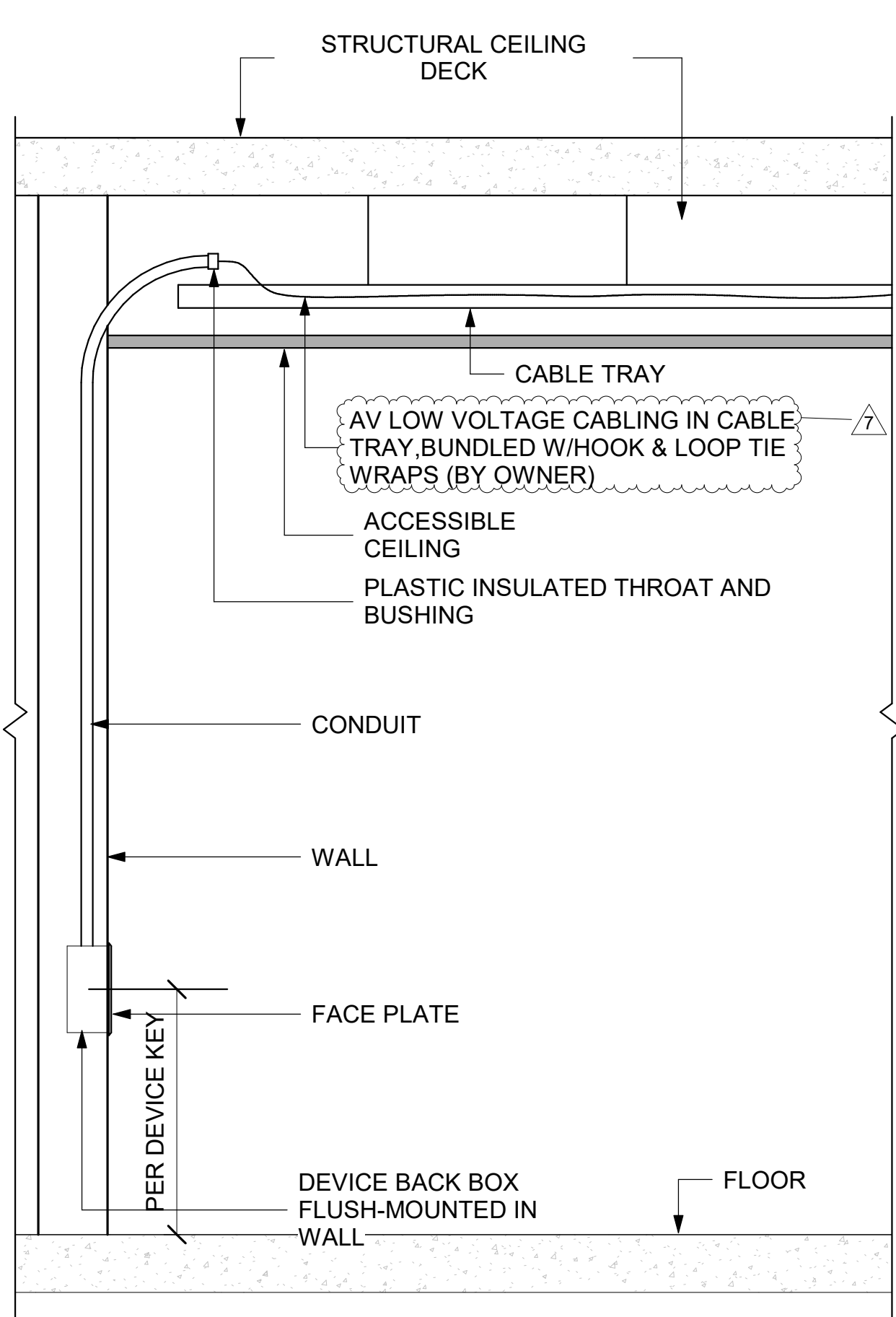
7 RISER DIAGRAM - SMALL GROUP ROOM NTS



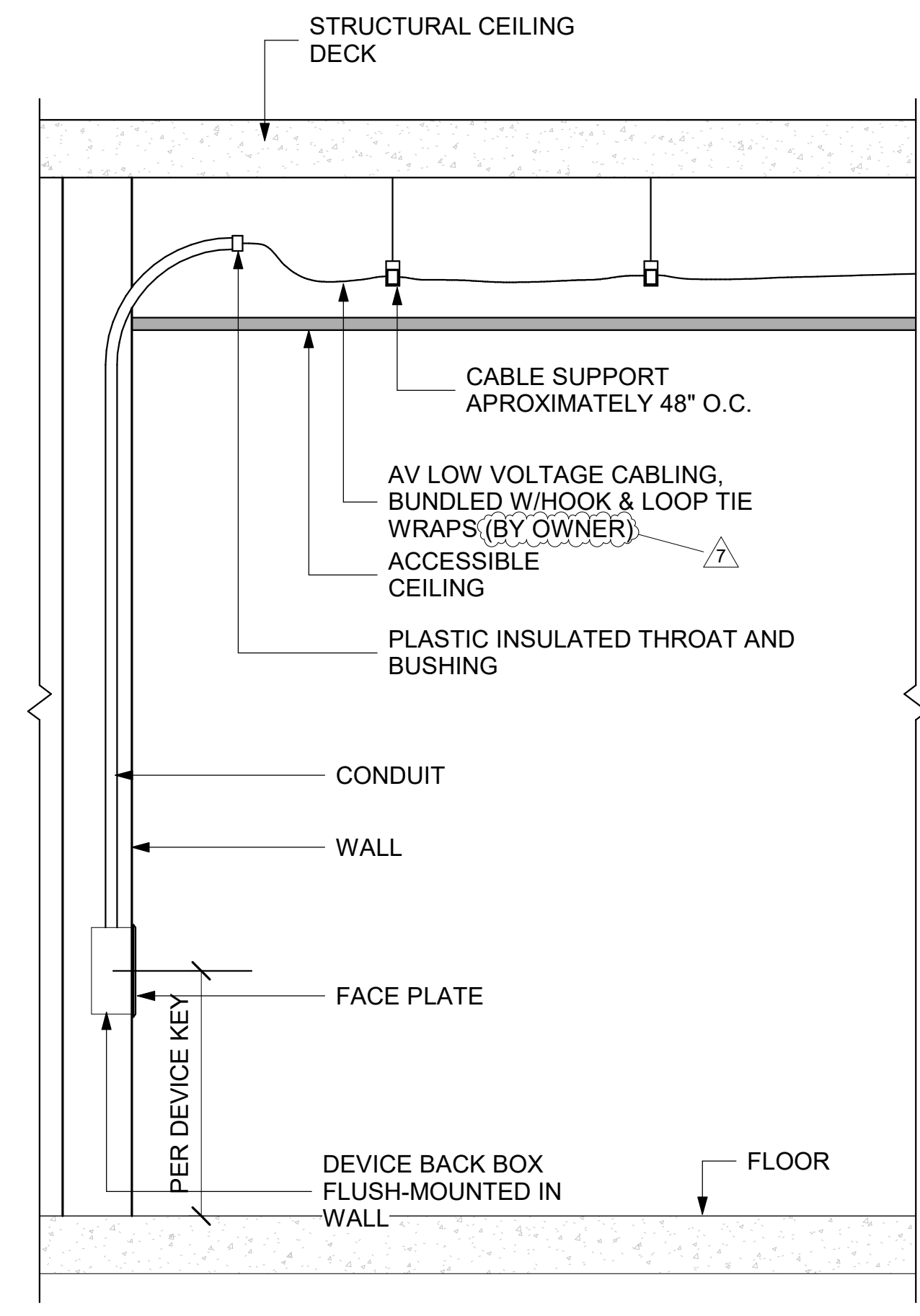
6 RISER DIAGRAM - DISPLAY AREA NTS



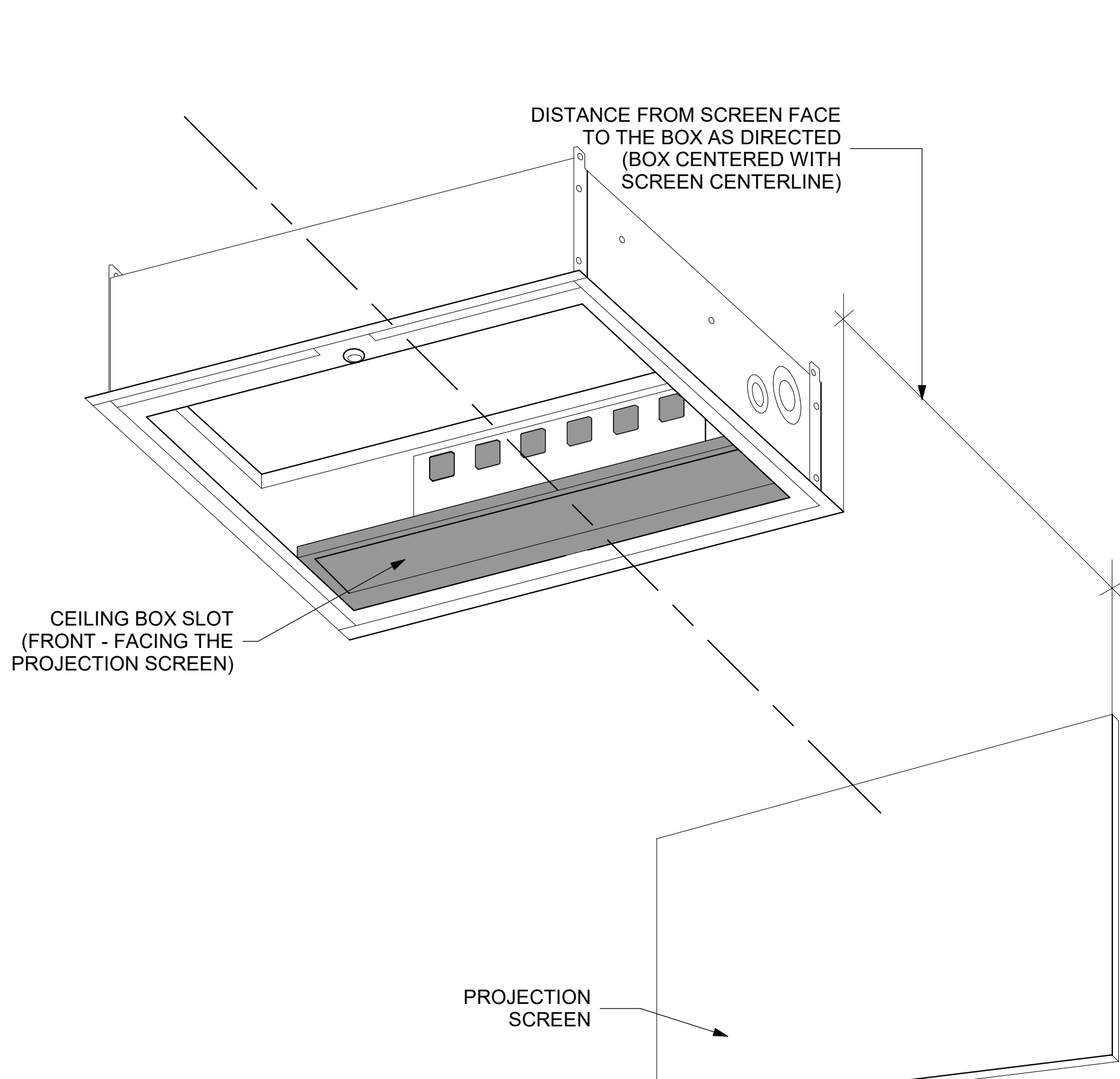
5 RISER DIAGRAM - PROJECTOR AREA NTS



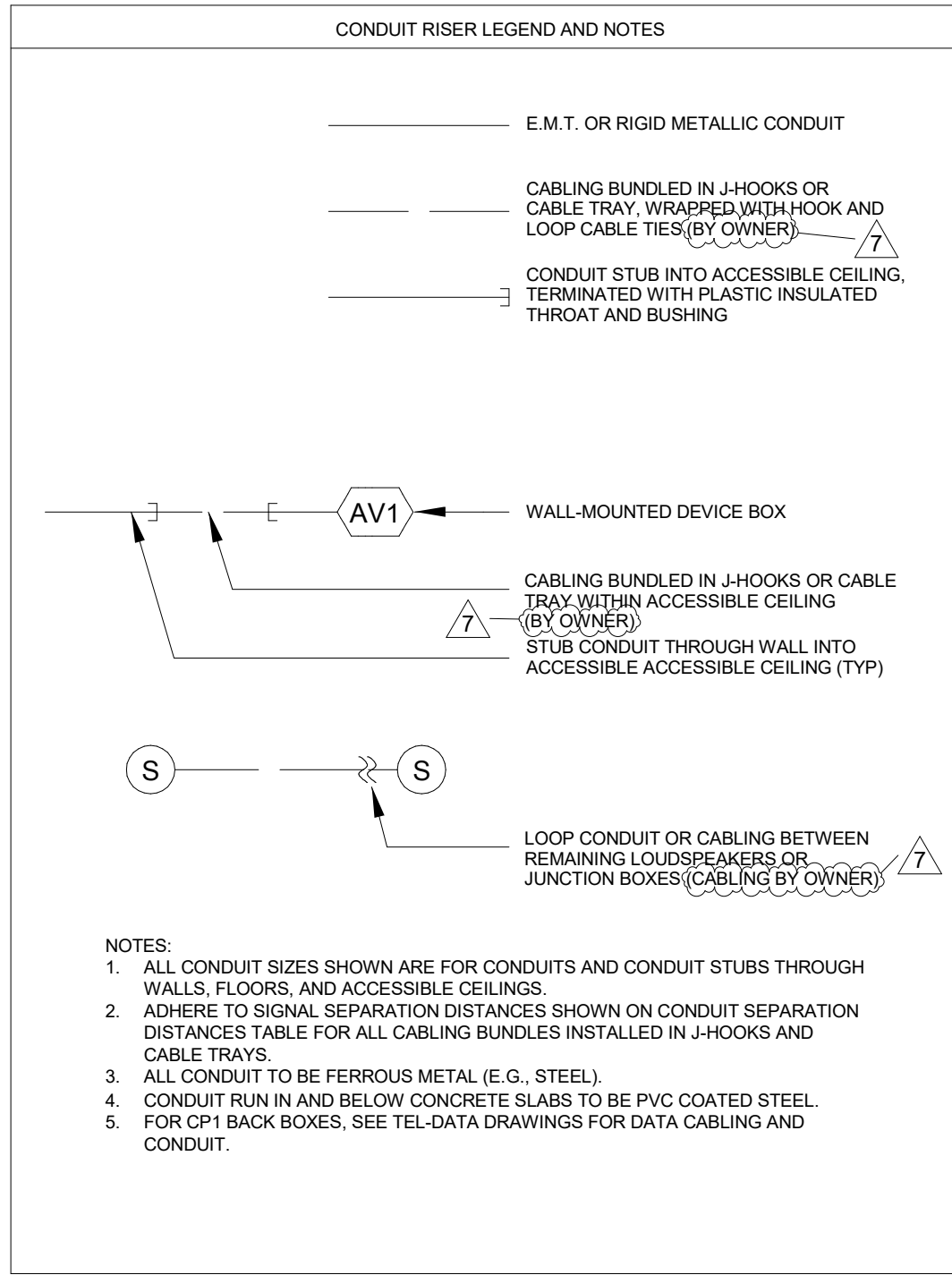
4 ACCESSIBLE CONDUIT STUB DETAIL - CABLE TRAY 1" = 1'-0"



3 ACCESSIBLE CONDUIT STUB DETAIL - J-HOOK 1" = 1'-0"



2 CEILING BOX EQUIPMENT RACK NTS



#### AUDIOVISUAL DEVICE KEY NOTES

- ABBREVIATIONS  
P.S.H. = PROJECT SWITCH HEIGHT  
P.R.H. = PROJECT RECEPTABLE HEIGHT

#### ELECTRICAL NOTES

- ALL CONDUIT TO BE STEEL EMT (ELETRICAL METALLIC TUBING) EXCEPT AS NOTED.
- ALL CONDUIT 3/4" UNLESS OTHERWISE NOTED.
- 70-VOLT LOUDSPEAKER WIRING IN ACCESSIBLE CEILINGS CAN BE RUN OUTSIDE OF CONDUIT WITH CABLE SUPPORTS. CONDUIT RUN IN AND BELOW CONCRETE SLABS ON GRADE TO BE PVC COATED STEEL.
- ALL CONDUIT TO BE HOME RUNS TO JUNCTION BOXES UNLESS OTHERWISE NOTED.
- INTERMEDIATE MARSHALLING BOXES FOR THE GROUPING OF HOME RUN CONDUITS BY CONDUIT GROUP ARE ACCEPTABLE. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONDUIT CAPACITY AND PULL BOX SIZE. USE 30% FILL FOR CONDUIT SIZE CALCULATIONS.
- FOR FLUSH-MOUNTED GANG BOXES USE RACO 3-1/2" DEEP STEEL BACK BOXES OR EQUAL.
- FOR SURFACE- AND PIPE-MOUNTED GANG BOXES USE FSR SMWB, LEVITON BKBOX SERIES SURFACE MOUNT POWDER-COATED STEEL BOX OR EQUAL BY ELECTRONIC THEATRE CONTROLS.
- USE SEPARATE STEEL CONDUITS FOR MICROPHONE-LEVEL CIRCUITS (BELOW -20 DBM), LINE-LEVEL CIRCUITS (UP TO +30 DBM), LOUDSPEAKER CIRCUITS (ABOVE +30 DBM), CONTROL CIRCUITS, DATA CIRCUITS, VIDEO CIRCUITS AND POWER CIRCUITS. USE AUDIO CONDUIT THAT IS SPACED AT LEAST 12 INCHES AWAY FROM POWER CONDUIT. INSULATE ALL CONDUIT FROM THE EQUIPMENT RACK(S); GROUND CONDUIT ONLY TO POWER SYSTEM GROUND. DO NOT SPLICE LINES IN CONDUIT. CONNECT EACH INPUT RECEPTACLE BY AN INDIVIDUAL, INSULATED LINE TO THE SYSTEM EQUIPMENT RACK.
- GROUP D CONDUITS WITH CATEGORY CABLE MAXIMUM RUN: 300 FEET.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDUIT SIZE.
- PROVIDE ALL EMPT CONDUITS WITH PULL-STRINGS.
- PROVIDE PULL BOX AFTER 180 DEGREES OF CONDUIT BEND.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL STANDARD ELECTRICAL BACK BOXES AND FLOOR BOXES.
- REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.

#### ELECTRICAL DEVICE KEY

- ELECTRICAL DEVICE NOTE:
- 120V ELECTRICAL POWER DEVICES AND FLOOR BOXES ARE SHOWN FOR REFERENCE ONLY.
  - SUBSCRIPT AT RECEPTACLE INDICATES CIRCUIT ASSIGNMENT; DO NOT SHARE CIRCUITS BETWEEN ROOMS, AND DO NOT SHARE WITH OTHER LOADS UNLESS INDICATED.
  - WHERE CIRCUIT ASSIGNMENT IS INDICATED, FEED CIRCUITS WITHIN A ROOM FROM A COMMON PANEL AND FROM A COMMON PHASE IN THAT PANEL. WHERE SUBSCRIPT NOT SHOWN, ASSIGN CIRCUITS PER CODE REQUIREMENTS.

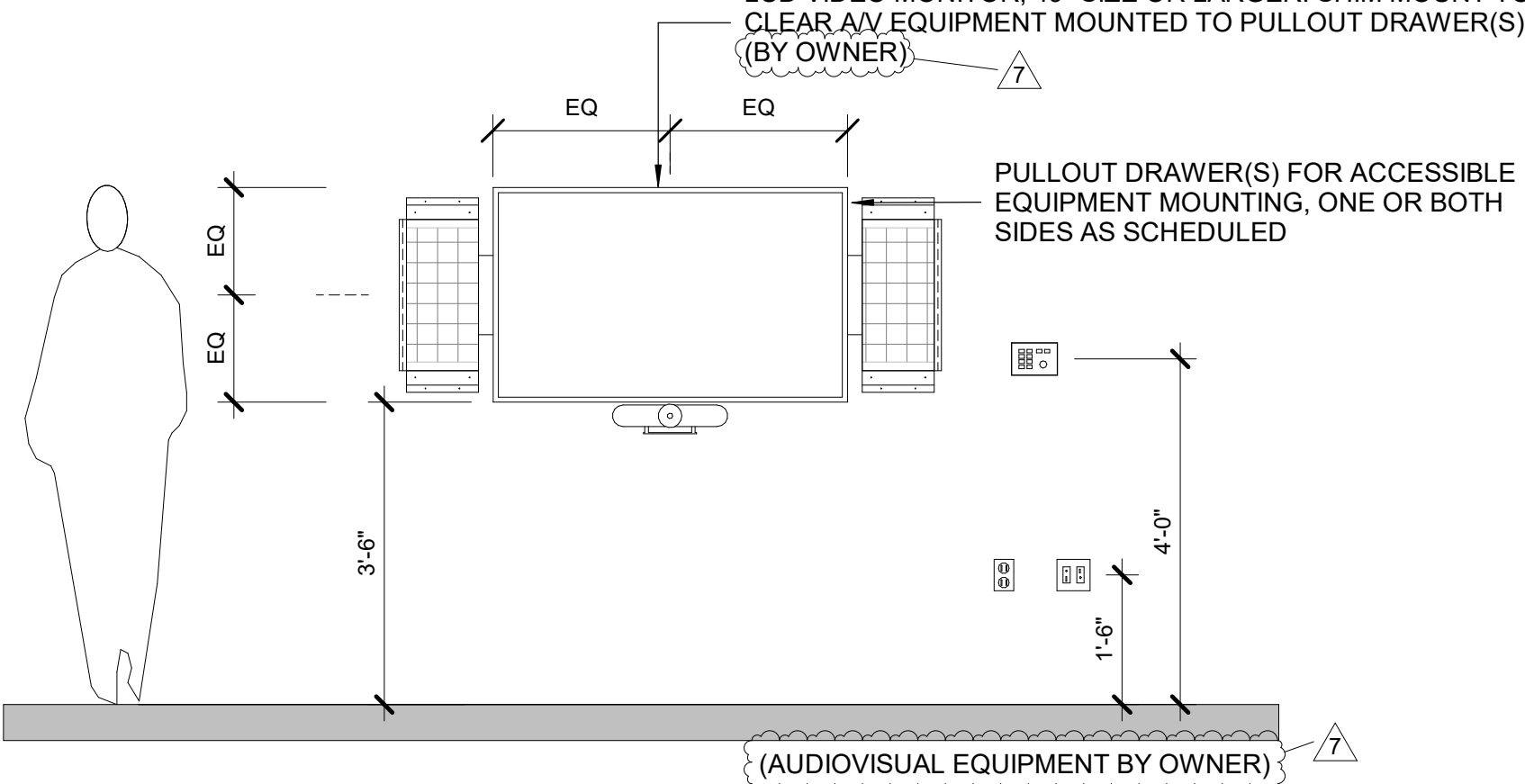
- Ⓜ DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED.
- Ⓜ DOUBBLE DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED.
- Ⓜ SINGLE NEMA TYPE L5-30 120VAC 30A TWIST-LOCK RECEPTACLE MOUNTED AT PROJECT RECEPTACLE HEIGHT, UNLESS OTHERWISE NOTED.
- Ⓜ DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN CEILING.
- Ⓜ DOUBBLE DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN CEILING.
- Ⓜ SINGLE NEMA TYPE L5-30 120V 30A TWIST-LOCK RECEPTACLE MOUNTED IN CEILING.
- Ⓜ FLEXIBLE CONNECTION TO 120VAC SERVICE. CIRCUIT PER CODE REQUIREMENTS.
- Ⓜ RAISED FLOOR GROMMET FOR AUDIOVISUAL CABLE PATHWAY, SIZE AS REQUIRED
- Ⓜ PROJECTION SCREEN UP/ DOWN SWITCH
- Ⓜ 2" CONDUIT SLEEVE WITH FIRE STOPPING, HILTI SPEED SLEEVE CP 653. INSTALL 12" ABOVE LOWEST FINISHED CEILING

#### AV SYSTEMS DATA DEVICE KEY

- DATA DEVICE NOTE:
- DATA COMMUNICATION DEVICES ARE SHOWN FOR REFERENCE ONLY. ALL STRUCTURED CABLES INCLUDING CAT 6, FIBER AND OTHER LOW VOLTAGE WIRING ARE BY OWNER
  - # SYMBOL INDICATE DATA CONNECTION QUALITY:
  - AV DRAWINGS INDICATE MINIMUM SERVICES REQUIRED TO SUPPORT AUDIOVISUAL SYSTEMS. PROVIDE ADDITIONAL SERVICES AS MAY BE REQUIRED FOR OTHER PURPOSES.

- Ⓜ DATA CONNECTION, CAT6 OR PROJECT STANDARD, FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED.
- Ⓜ DATA CONNECTION, CAT6 OR PROJECT STANDARD, FLUSH MOUNTED IN CEILING AT AUDIOVISUAL SYSTEM DEVICE.
- Ⓜ DATA CONNECTION, CAT6 OR PROJECT STANDARD, WITHIN AUDIOVISUAL SYSTEMS DEVICE. PROVIDE 48" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR.
- Ⓜ DATA CONNECTION, CAT6 OR PROJECT STANDARD, ON AV SYSTEMS FACEPLATE.
- Ⓜ PROVIDE 18" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR. FACEPLATE WITH RUGGEDIZED RJ45 CONNECTORS BY AV SYSTEMS CONTRACTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR. DUPLEX FIBER OPTIC DATA UPLINK TO REMOTE NETWORK SWITCH.

- Ⓜ DATA CONNECTION, CAT6 OR PROJECT STANDARD, ON AV SYSTEMS FACEPLATE.
- Ⓜ PROVIDE 18" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR. FACEPLATE WITH RUGGEDIZED RJ45 CONNECTORS BY AV SYSTEMS CONTRACTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR. DUPLEX FIBER OPTIC DATA UPLINK TO REMOTE NETWORK SWITCH.



1 DETAIL - EQUIPMENT MOUNTING AT MONITOR NTS

Revision Schedule		
No.	Description	Date

7 BID ADDENDUM #3 2/11/2021

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DP DESIGN CAVANAUGH TOCCI

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Providence, RI 02906 Sudbury, MA 01776-3027

401-861-3218 978-443-7871

SED#: 6618-0001-0003-025

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

312 Midland Ave, Rye NY 10580

AUDIOVISUAL KEYS, NOTES AND SCHEDULES

PROJECT 2

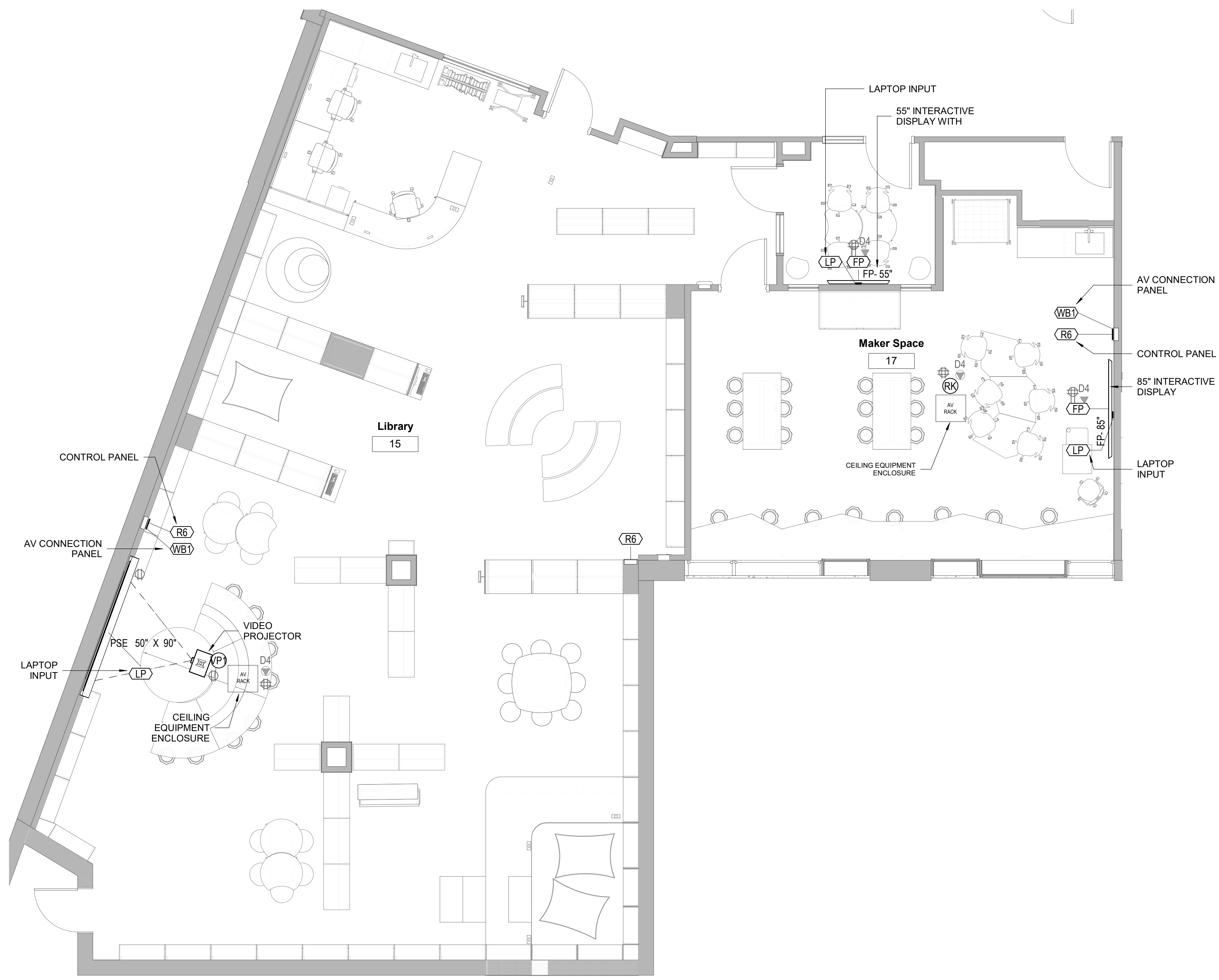
SEAL & SIGNATURE DATE: 2/11/2021

PROJECT No: 9200

DRAWING BY: JMM

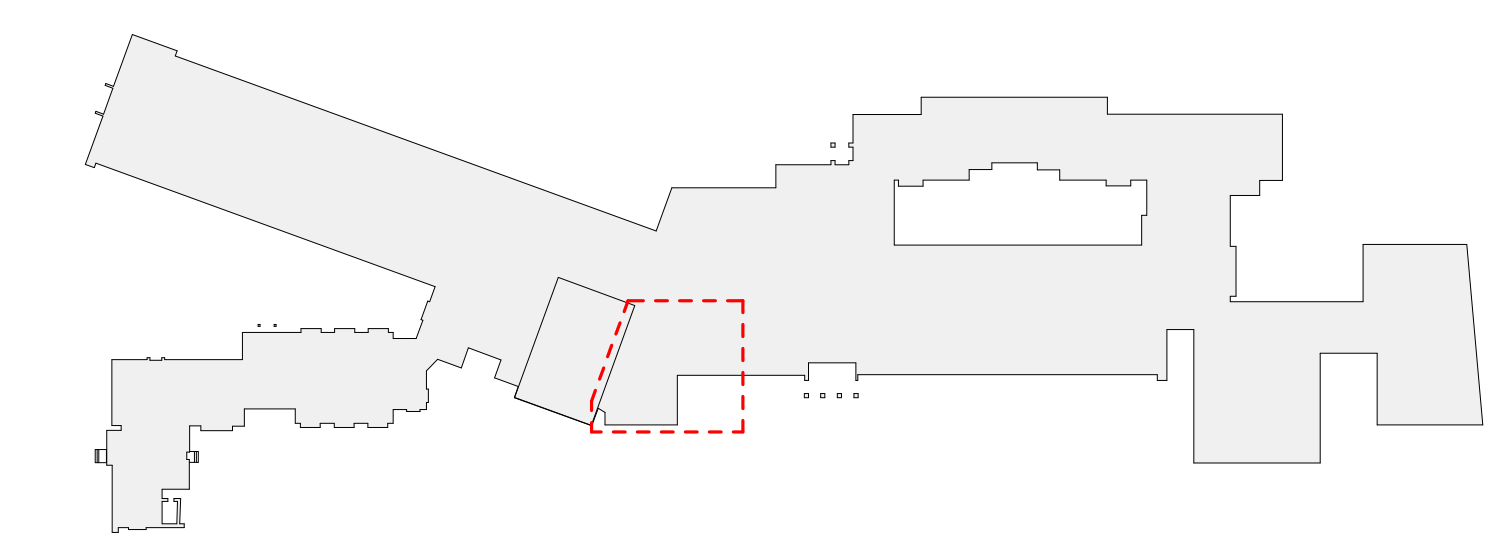
CHK BY: MJM

DWG No: AVE2-001



1 AUDIOVISUAL FIRST FLOOR PLAN - LIBRARY  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



MIDLAND KEY PLAN  
1" = 100'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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Architecture. Planning. Interiors

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SED#: 6618-0001-0003-025

PROJECT

**Rye City Schools**  
555 Theodore Fremd Ave, Suite B-101

**Midland Elementary School**  
312 Midland Ave, Rye NY 10580

**AUDIOVISUAL FIRST FLOOR PLAN - LIBRARY**

PROJECT 2

SEAL & SIGNATURE	DATE: 2/11/2021
	PROJECT No: 9200
	DRAWING BY: JMM
	CHK BY: MJM
	DWG No: AVE2-102

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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SED#: 6618-0001-0003-025

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

312 Midland Ave, Rye NY 10580

AUDIOVISUAL FIRST FLOOR  
REFLECTED CEILING PLAN -  
LIBRARY

PROJECT 2

SEAL & SIGNATURE

DATE: 2/11/2021

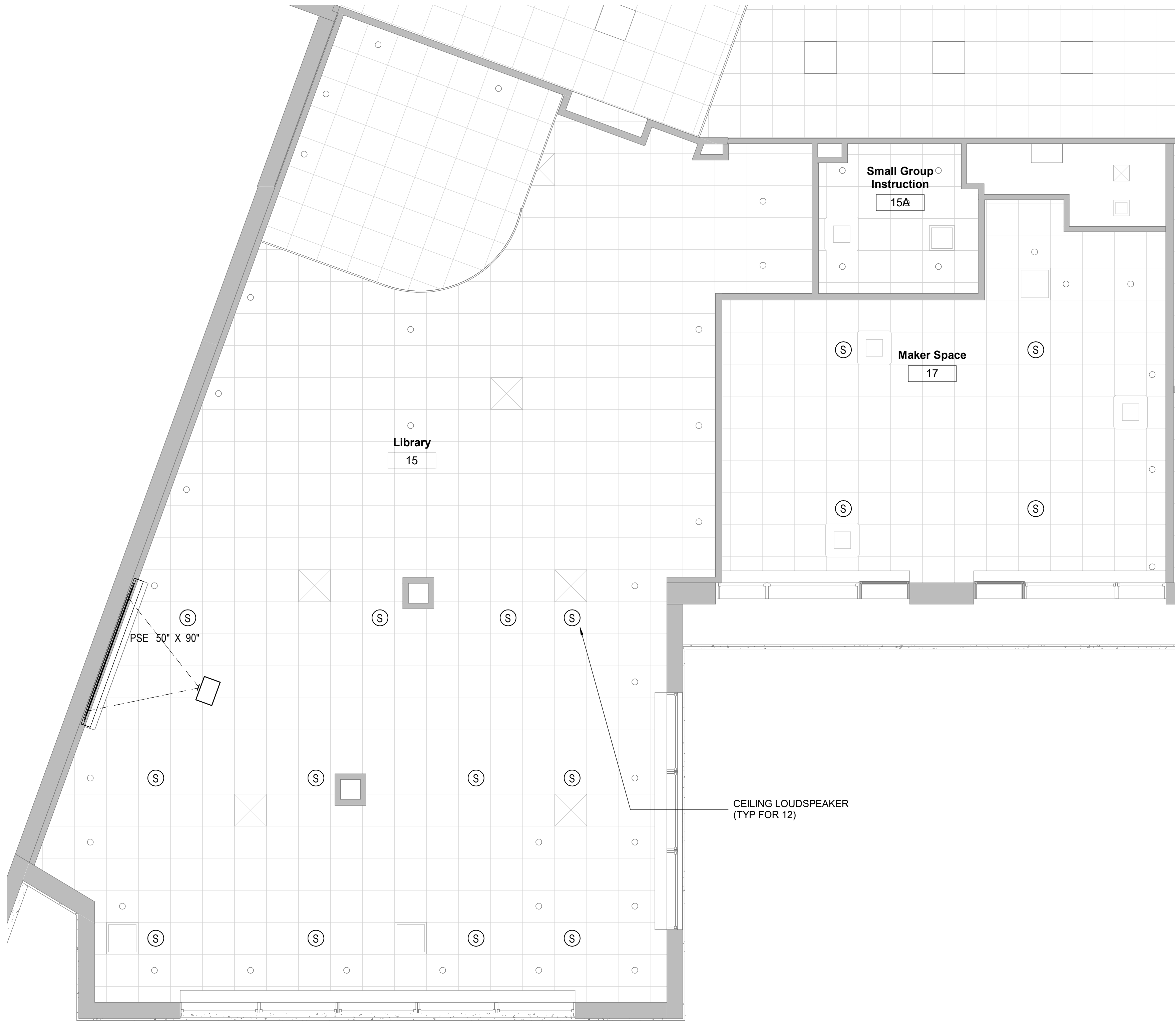
PROJECT No: 9200

DRAWING BY: JMM

CHK BY: MJM

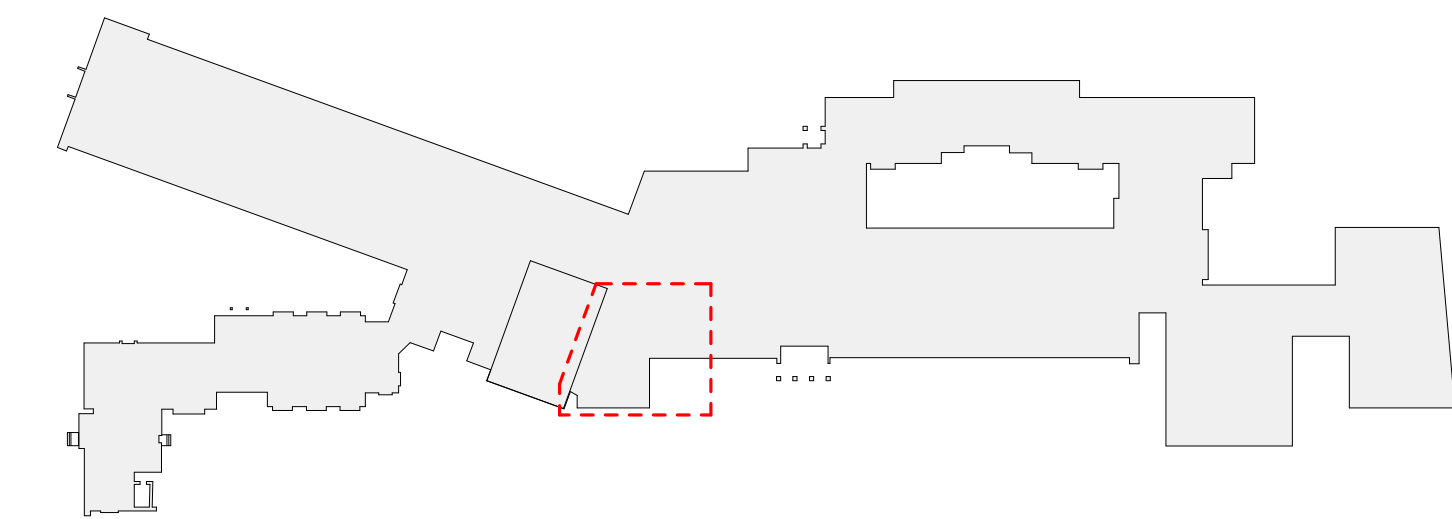
DWG No:

AVE2-112

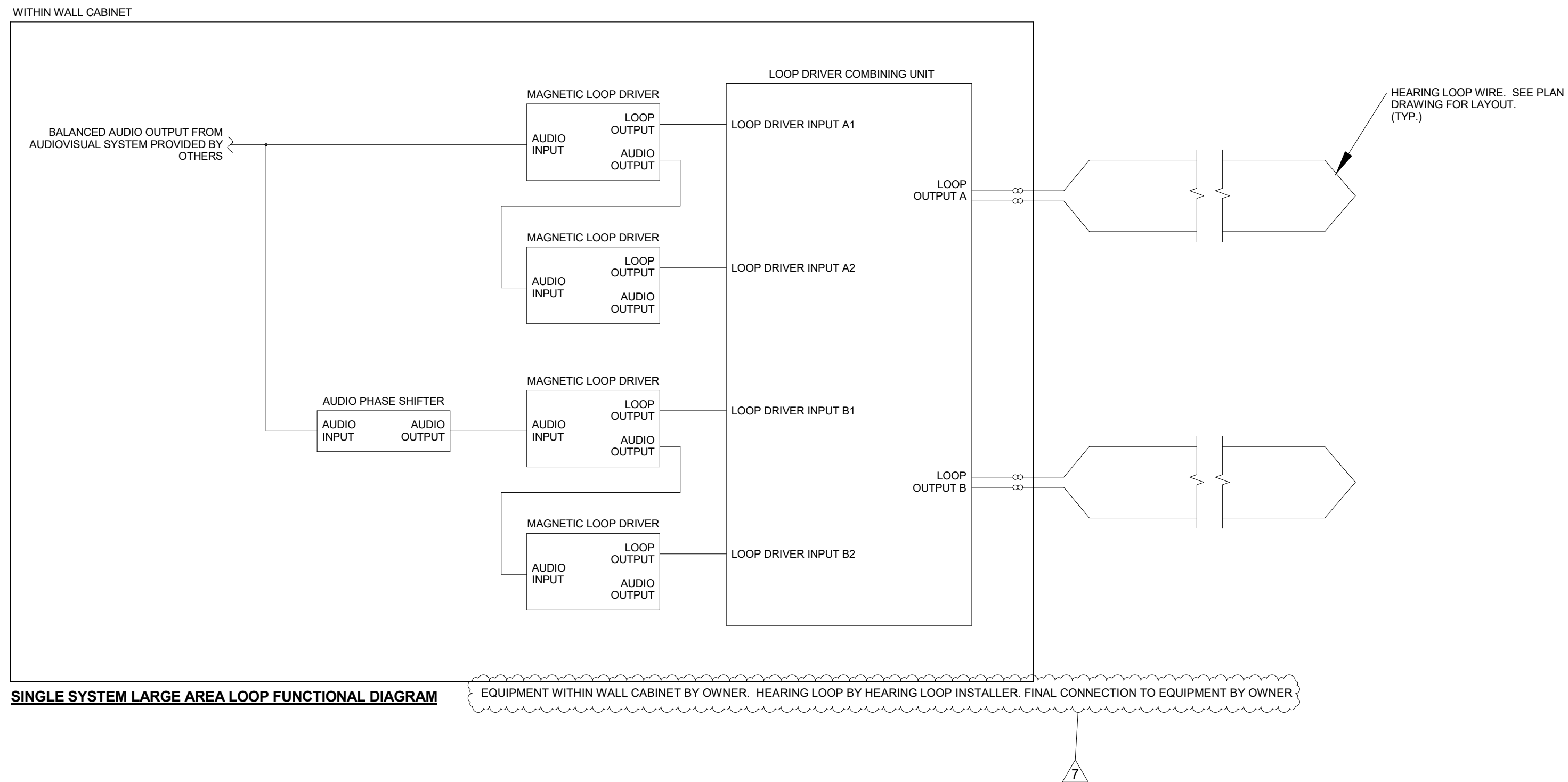
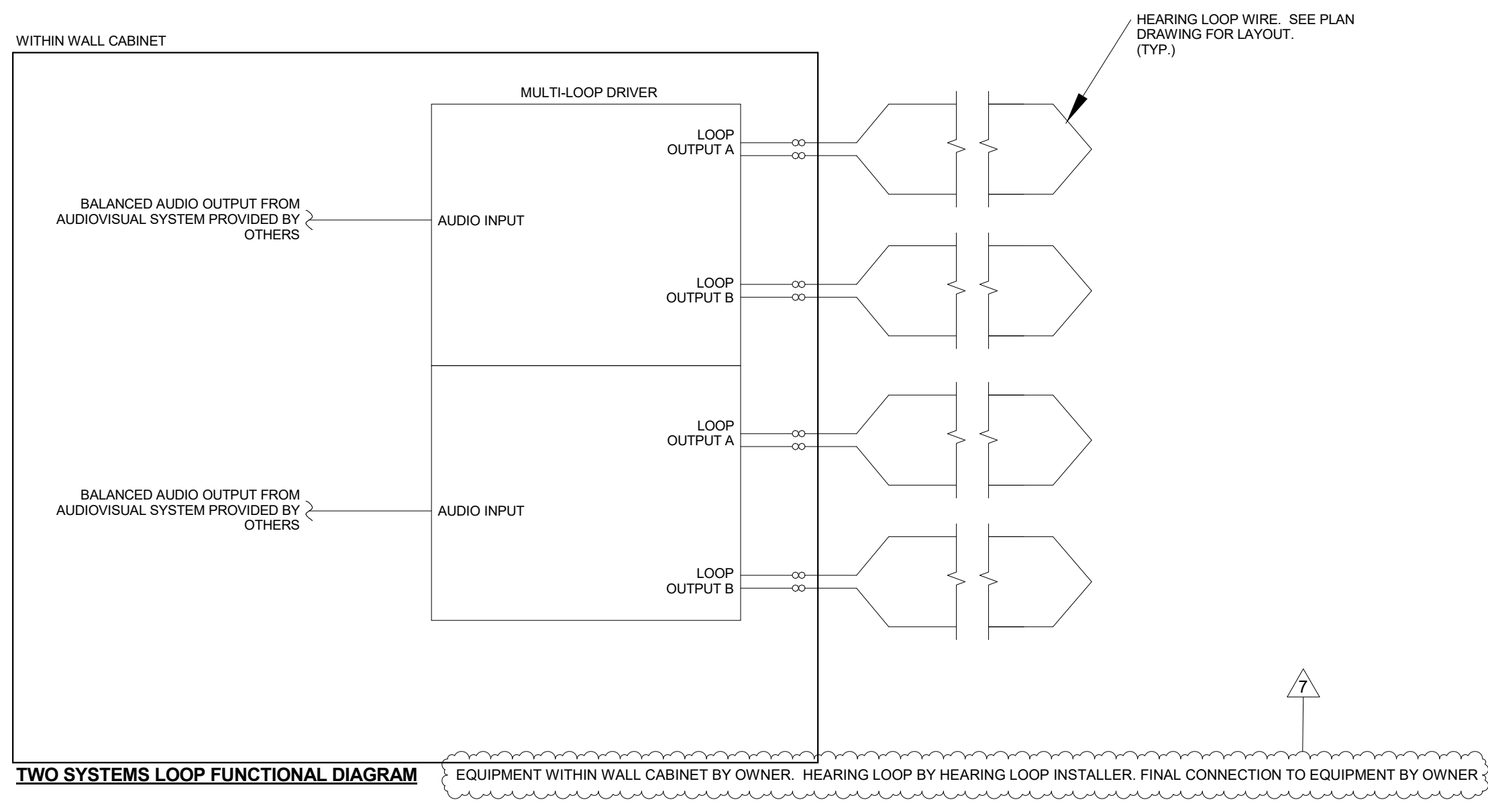
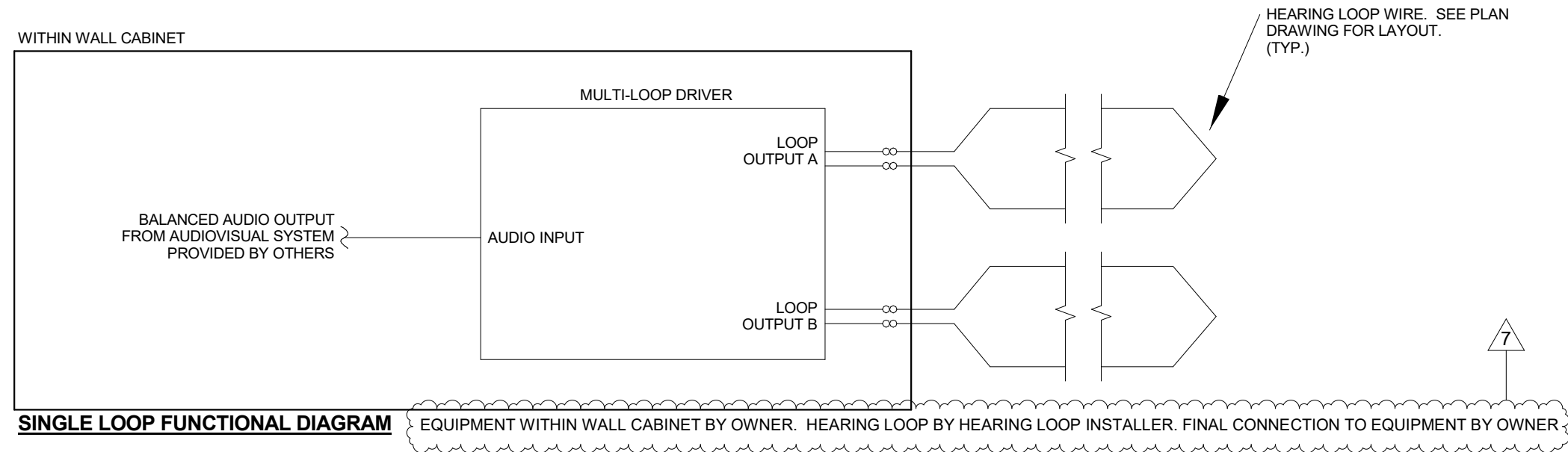


1 AUDIOVISUAL REFLECTED CEILING PLAN - FIRST FLOOR - LIBRARY  
1/4" = 1'-0"

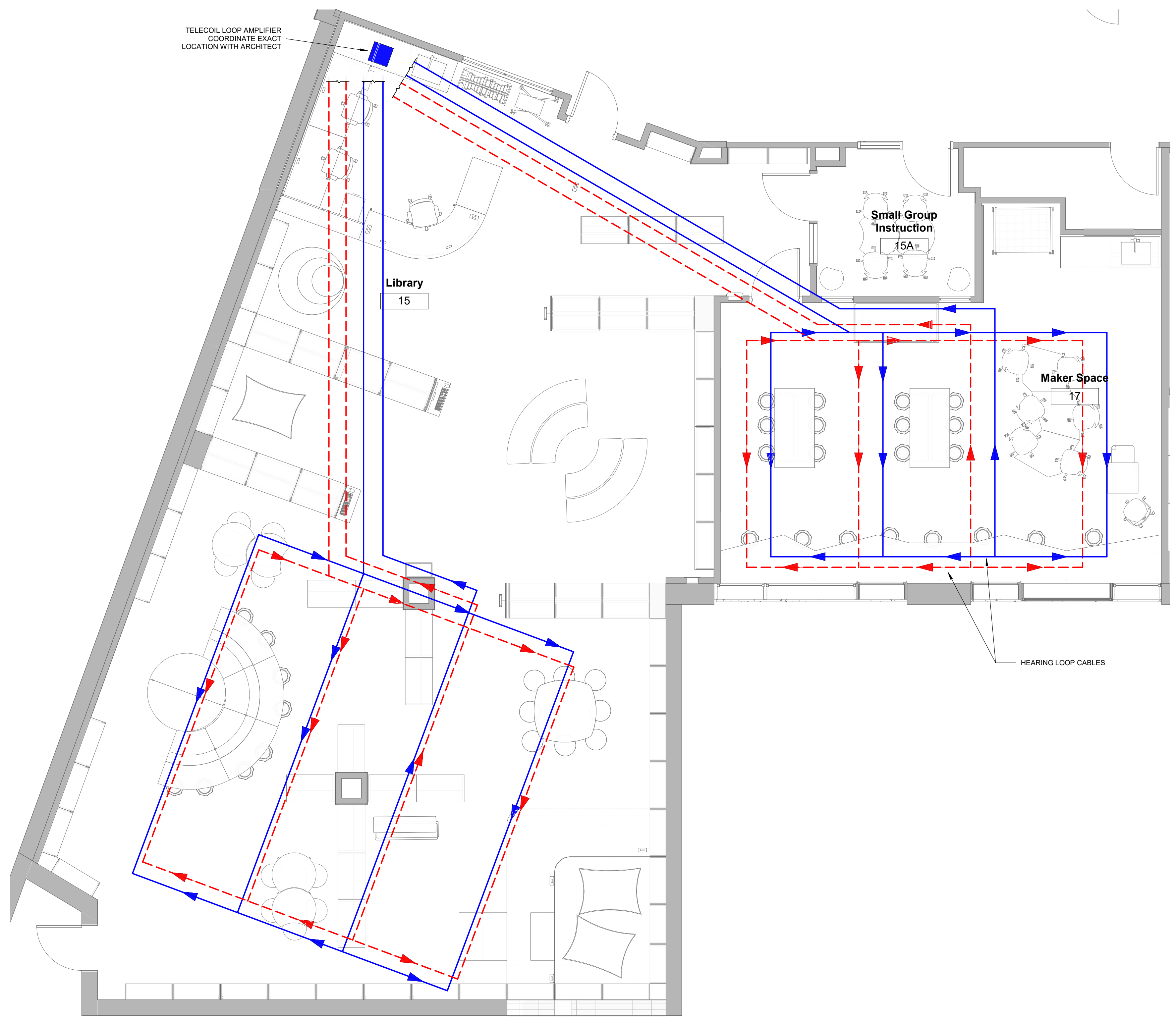
NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION  
SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



MIDLAND KEY PLAN  
1" = 100'



2 HEARING LOOP DIAGRAMS  
NTS



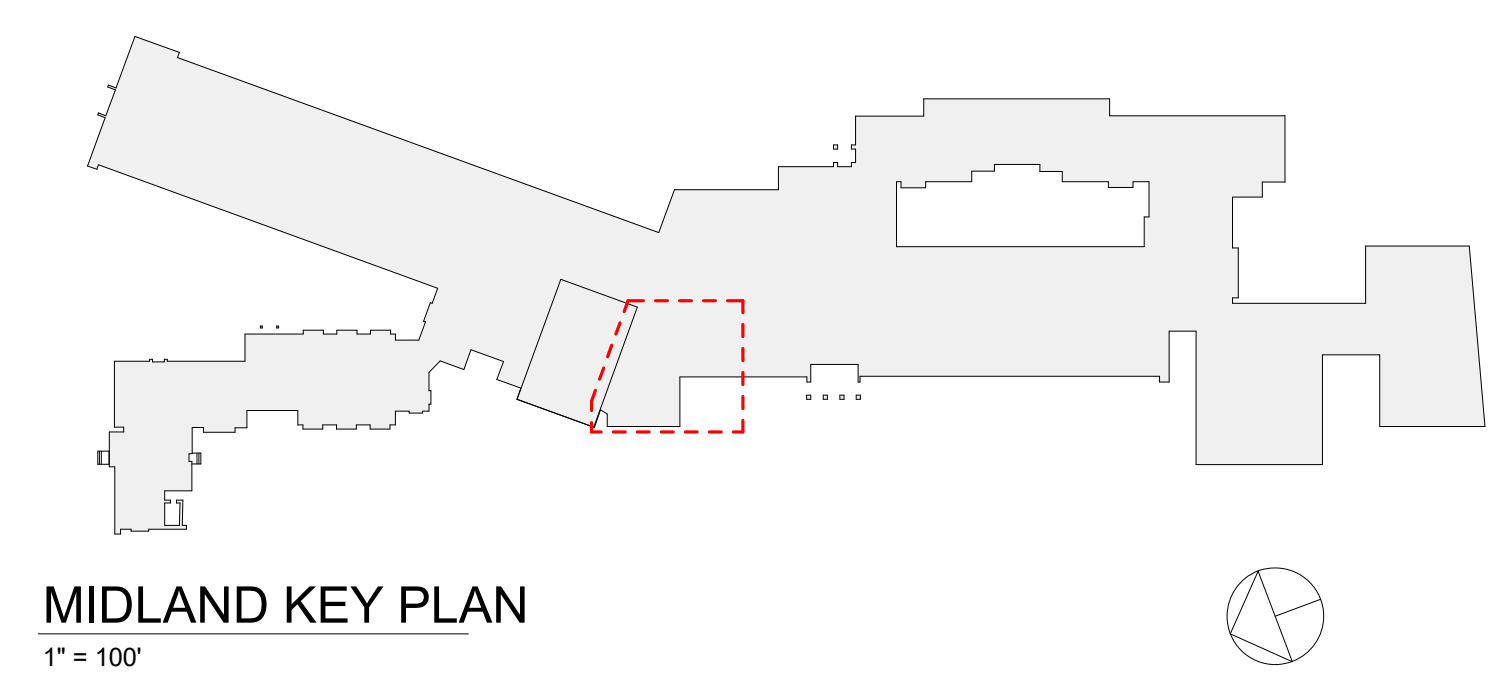
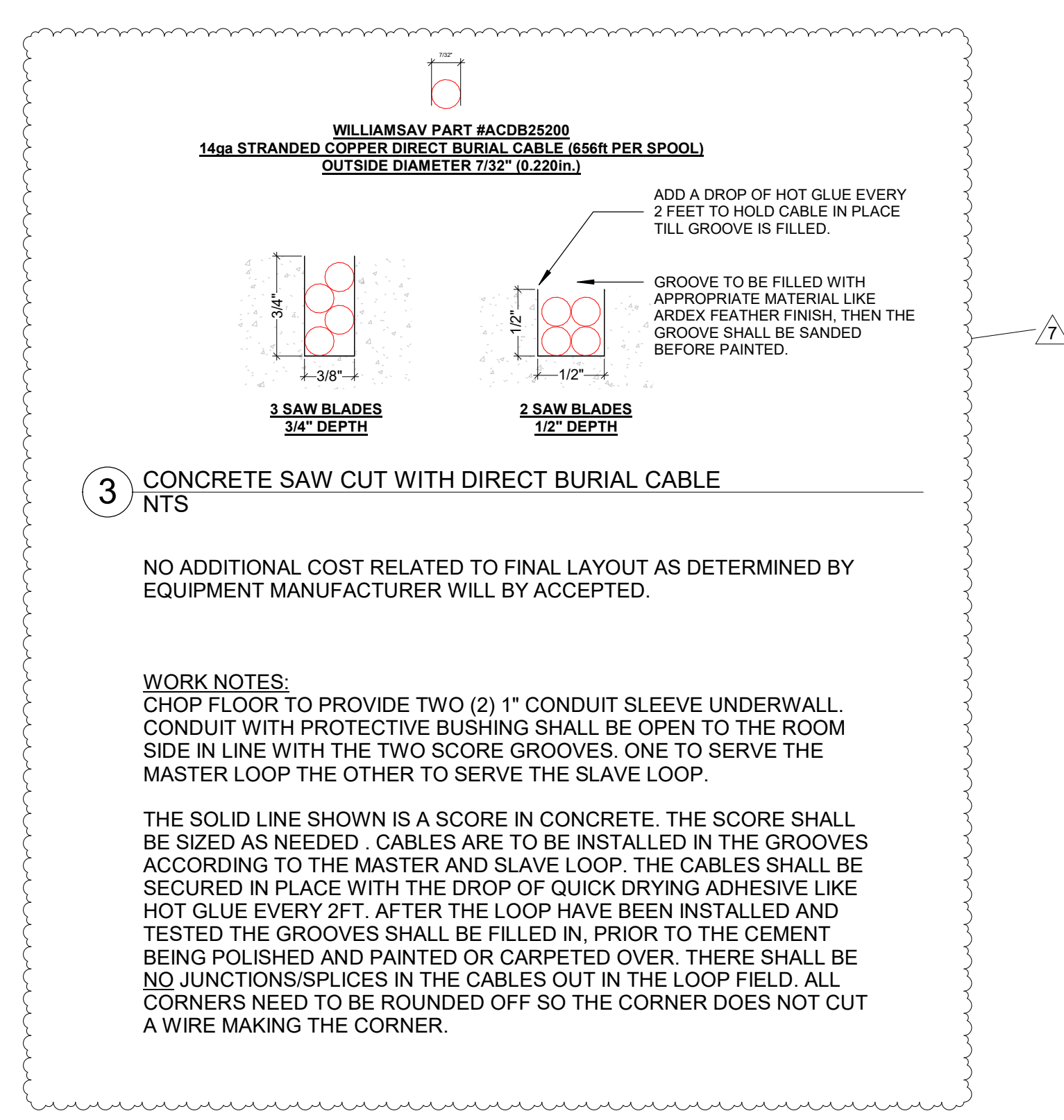
**MAGNETIC HEARING LOOP WIRE INSTALLATION NOTES.**

1. MAGNETIC HEARING LOOP SPACING, LAYOUT, AND ROUTING ARE CONCEPTUAL ONLY. ACTUAL SPACING, LAYOUT, AND ROUTING TO BE DETERMINED BY HEARING LOOP SYSTEM INSTALLER AND HEARING LOOP SYSTEM EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

2. COORDINATE MAGNETIC HEARING LOOP WIRE FLOOR INSTALLATION WITH FLOORING INSTALLATION.

3. NO ADDITIONAL COST RELATED TO FINAL LAYOUT AS DETERMINED BY EQUIPMENT MANUFACTURER WILL BE ACCEPTED.

1 HEARING LOOP CONCEPTUAL LAYOUT - LIBRARY  
1/4" = 1'-0"



Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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401-861-3218 978-443-7871

SED#: 6618-0001-0003-025

PROJECT

**Rye City Schools**

555 Theodore Fremd Ave, Suite B-101

**Midland Elementary School**

312 Midland Ave, Rye NY 10580

HEARING LOOP SYSTEM LOOP  
WIRE LAYOUTS AND  
DIAGRAMS - LIBRARY

PROJECT 2A

SEAL & SIGNATURE DATE: 2/11/2021

PROJECT No: 9200

DRAWING BY: JMM

CHK BY: MJM

DWG No: AVE2-201

**WORK NOTES:**

- EMERGENCY CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. PROVIDE 2#12+1#12G IN 3/4" CONDUIT TO NEAR BY EMERGENCY LIGHTING CIRCUIT.
- REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E-701 DETAIL B/E-701 AND SPECIFICATION FOR MORE INFORMATION.
- COORDINATE LOCATION AND ELEVATION OF RECEPTACLE WITH AV CONSULTANT. BEFORE THE START OF ANY WORK.
- JUNCTION BOX TO PROVIDE POWER FOR SPEAKER. COORDINATE EXACT LOCATION WITH AV CONSULTANT BEFORE THE START OF ANY WORK.
- COORDINATE EXACT LOCATION OF THE PROJECTION SCREEN CONTROL SWITCH WITH THE AV CONSULTANT BEFORE THE START OF ANY WORK.
- EXACT LOCATION OF FLOOR BOX SHALL COORDINATED WITH AV CONSULTANT BEFORE THE START OF ANY WORK.

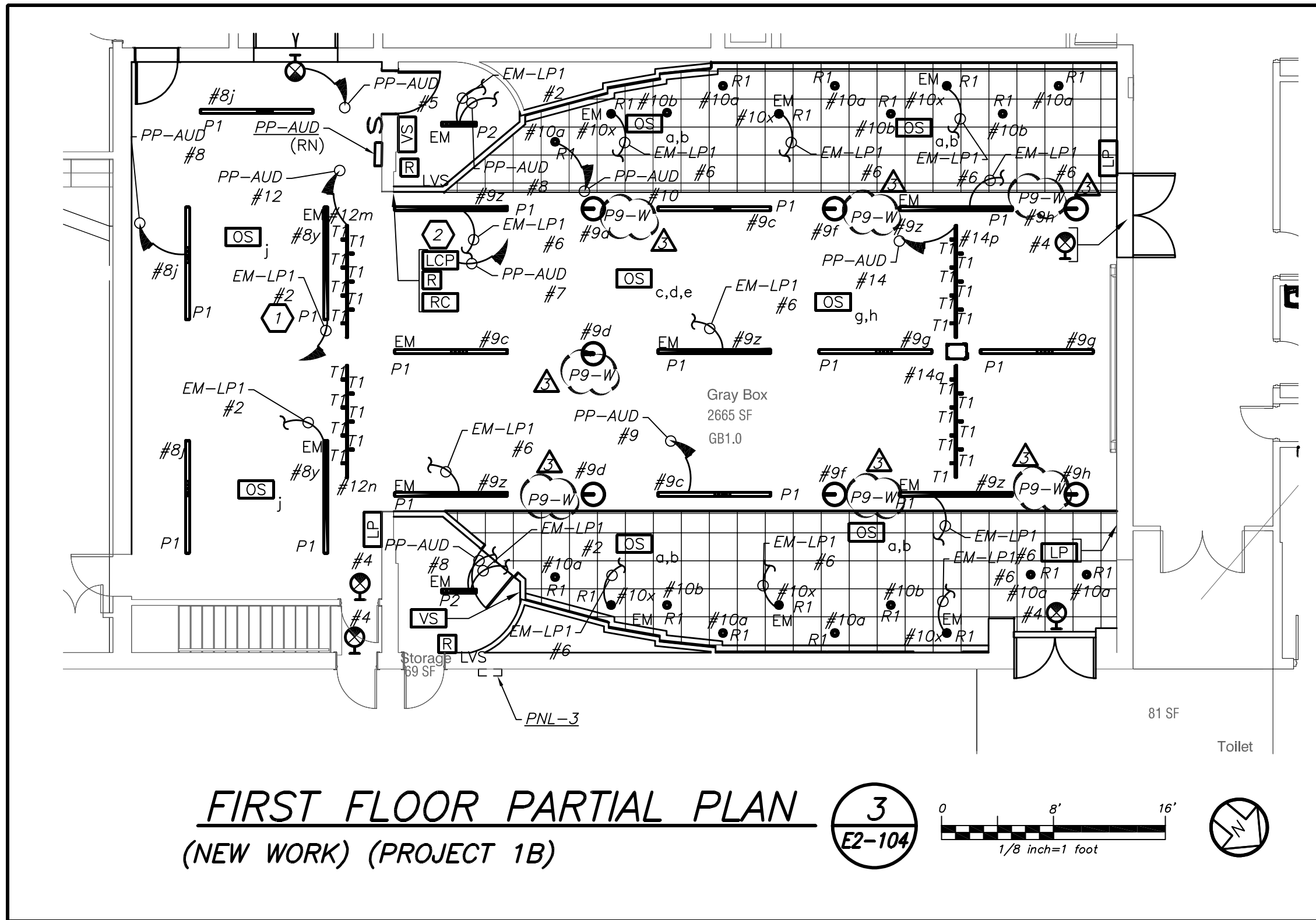
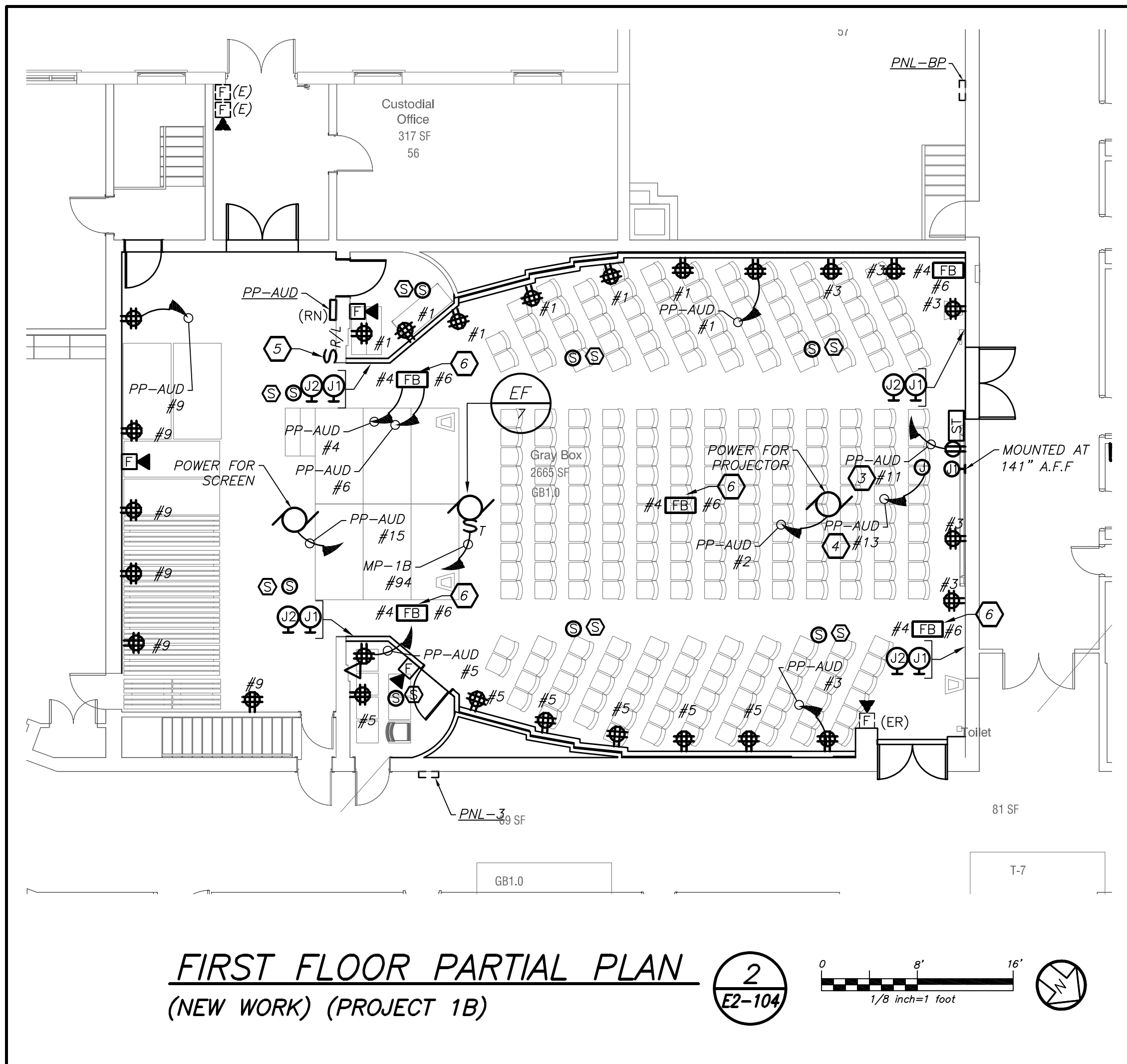
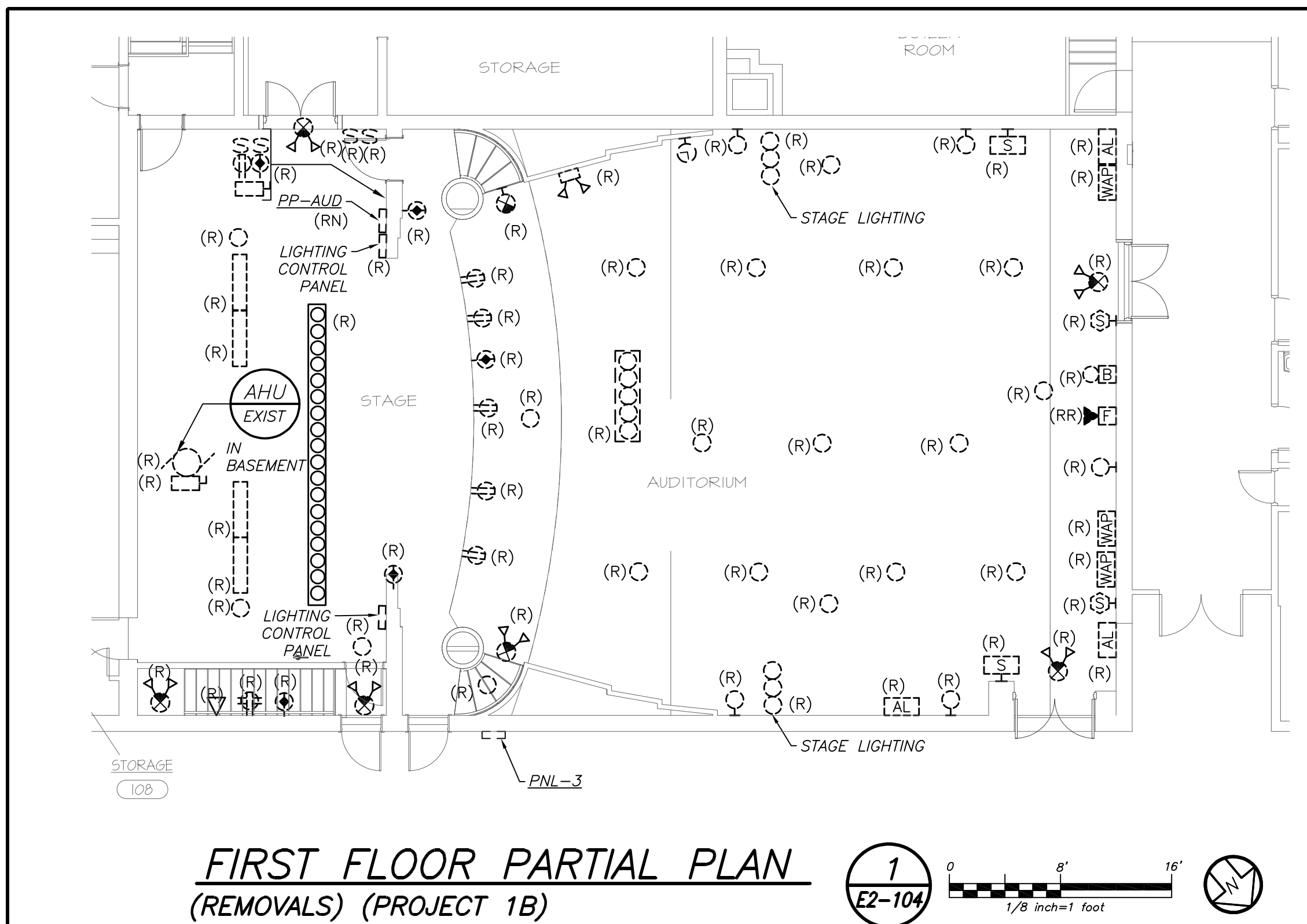
**SPECIAL NOTE: THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACTION LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.**

**AUDITORIUM DIMMING SCHEDULE- PROJECT 1B**

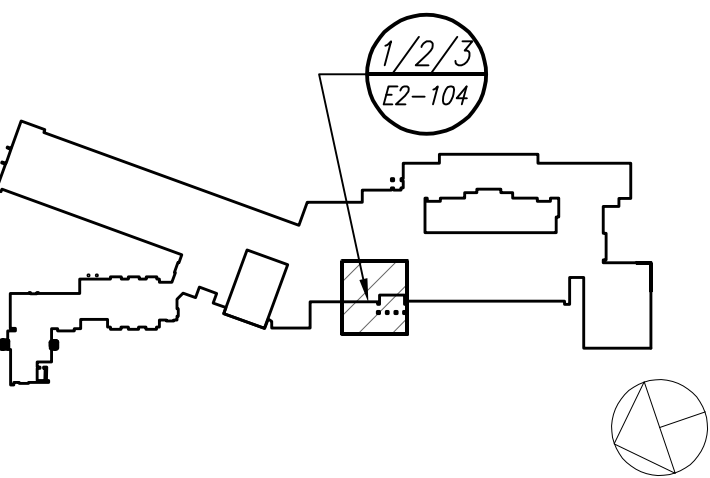
LIGHT DIMMER PANEL: LP

ZONE #	CIRCUIT #	AMP	LUMINAIRE		LOAD (VA)
			LOCATION	TYPE	
1	PP-AUD-4	20	AUD-HOUSE-MAIN	LED	168
2	PP-AUD-4	20	AUD-HOUSE-MAIN	LED-EMERGENCY-RELAY UL924	100
3	PP-AUD-6	20	AUD-HOUSE-MAIN	LED	110
4	PP-AUD-6	20	AUD-HOUSE-MAIN	LED-EMERGENCY-RELAY UL924	400
5	PP-AUD-6	20	AUD-HOUSE-MAIN	LED	360
6	PP-AUD-4	20	AUD-HOUSE-MAIN	LED	364
7	PP-AUD-6	20	AUD-HOUSE-MAIN	LED-EMERGENCY-RELAY UL924	180
8	PP-AUD-10	20	AUD-HOUSE-BALC.	LED	48
9	PP-AUD-10	20	AUD-HOUSE-BALC.	LED	96
10	PP-AUD-10	20	AUD-HOUSE-BALC.	LED	756
11	PP-AUD-10	20	AUD-HOUSE-BALC.	LED-EMERGENCY-RELAY UL924	468
12	PP-AUD-16	20	SPARE	SPARE	
TOTAL					3,050

**AUDITORIUM DIMMING SCHEDULE**



Revision Schedule		
No.	Description	Date
1	SED Submission	09/15/2020
3	ISSUED FOR BID	01/19/2021
6	BID ADDENDUM #3	02/11/2021



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Acoustic Consultant  
DP DESIGN  
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Providence, RI  
401-861-3218

SED#: 6618-0001-0003-025

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Midland Elementary School

312 Midland Ave, Rye NY 10580

GREY BOX ELECTRICAL  
REMOVALS, LIGHTING, POWER  
AND FIRE ALARM PLAN

PROJECT 1B

SEAL & SIGNATURE	DATE:	12/18/19
	PROJECT No:	9200
	DRAWING BY:	BGA
	CHK BY:	BGA
	DWG No:	E2-104

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



**EXTERIOR EMERGENCY LIGHTING CONTROL AND SEQUENCE OF OPERATION:**

1. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z) ARE CONTROLLED VIA BUILT-IN PHOTOCELL AND STEP-DIM MOTION SENSORS. IN BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.
2. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z1) ARE CONTROLLED VIA REMOTE PHOTOCELL AND STEP-DIM MOTION SENSORS. PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.
3. 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.

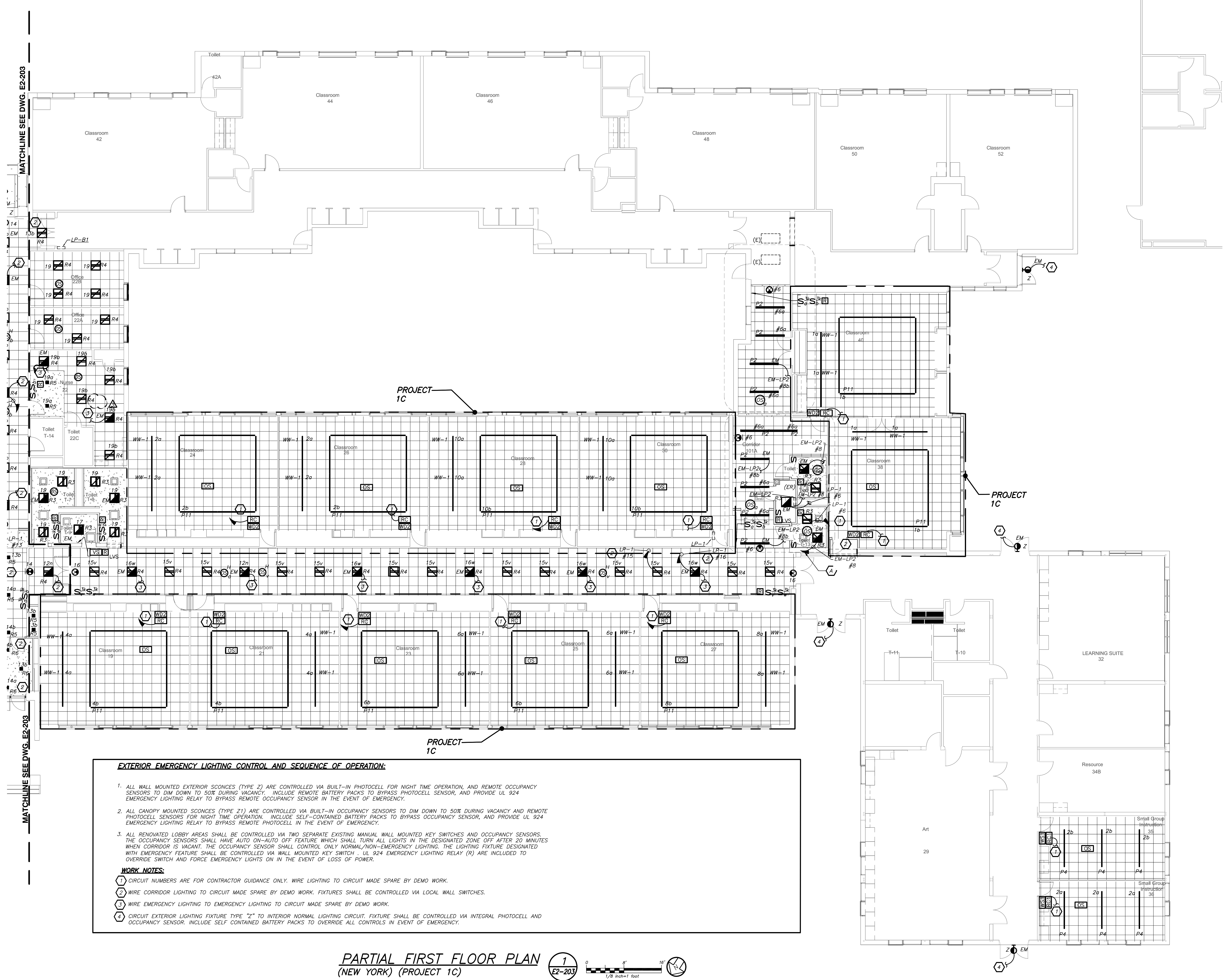
**WORK NOTES:**

- 1 CIRCUIT NUMBERS ARE FOR CONTRACTOR GUIDANCE ONLY. WIRE LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
- 2 WIRE CORRIDOR LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK. FIXTURES SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES.
- 3 WIRE EMERGENCY LIGHTING TO EMERGENCY LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
- 3 NOT USED
- 4 NOT USED
- 5 CIRCUIT EXTERIOR LIGHTING FIXTURE TYPE "Z" TO INTERIOR NORMAL LIGHTING CIRCUIT. FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR. INCLUDE SELF CONTAINED BATTERY PACKS TO OVERRIDE ALL CONTROLS IN EVENT OF EMERGENCY.
- 6 PROVIDE NEW EXTERIOR EMERGENCY LIGHT FIXTURE "Z1" AND CONNECT TO NEW EMERGENCY AND NORMAL LIGHTING CIRCUIT CONNECTED TO LVS RELAY. SEE NOTE 7. FIXTURE SHALL BE CONTROLLED VIA NEW REMOTE PHOTOCELL AND OCCUPANCY SENSOR. REFER TO DETAIL 8/E2-701 FOR WIRING DIAGRAM. UPON INTERRUPTION OF NORMAL POWER ENTIRE LIGHT CIRCUIT FOR EXTERIOR LIGHT FIXTURE SHALL ILLUMINATE REGARDLESS OF PHOTOCELL OR OCCUPANCY CONTROL POSITION OF OPERATION.
- 7 PROVIDE UL924 RELAY SIMILAR TO LVS MODEL EPC-1-D-F TO OVERRIDE REMOTE PHOTOCELL AND OCCUPANCY SENSOR FOR EXTERIOR MOUNTED LIGHTING FIXTURE "Z1". CONNECT TO EMERGENCY AND NORMAL CIRCUIT SERVING THE AREA AHEAD OF ANY LOCAL SWITCHING. REFER TO DETAIL 8/E2-701 FOR ADDITIONAL INFORMATION.
- 8 PROVIDE TORK 2001 SERIES PHOTOCELL SENSOR AND HUBBELL LIGHTTOWL #LO-IRWRRP-LWO DISABLE OCCUPANCY SENSOR. INCLUDE #JUPVP POWER PACK MOUNTED ON THE BUILDING WALL TO OPERATE TYPE "Z1" EXTERIOR EMERGENCY LIGHTING FIXTURE.

GREY BOX DIMMING SCHEDULE--PROJECT 1A					
LIGHT DIMMER PANEL: LP					
ZONE #	CIRCUIT #	AMP	LOCATION	LUMINAIRE TYPE	LOAD (VA)
1	PP-AUD-10	20	GREY BOX-MAIN	LED	140
2	PP-AUD-10	20	GREY BOX-MAIN	LED	58
3	PP-AUD-10	20	GREY BOX-MAIN	LED-EMERGENCY-RELAY UL924	84
4	PP-AUD-9	20	GREY BOX-MAIN	LED-EMERGENCY-RELAY UL924	350
5	PP-AUD-9	20	GREY BOX-MAIN	LED	210
6	PP-AUD-9	20	GREY BOX-MAIN	LED	70
7	PP-AUD-9	20	GREY BOX-MAIN	LED	180
8	PP-AUD-9	20	GREY BOX-MAIN	LED	90
9	PP-AUD-9	20	GREY BOX-MAIN	LED	90
10	PP-AUD-5	20	SPARE	SPARE	0
11	PP-AUD-10	20	GREY BOX-STAGE	LED-EMERGENCY-RELAY UL924	140
12	PP-AUD-16	20	GREY BOX-MAIN	LED	128
12	PP-AUD-16	20	GREY BOX-MAIN	LED	128
12	PP-AUD-16	20	SPARE	SPARE	0
TOTAL					1,668

**GREY BOX DIMMING SCHEDULE**





**EXTERIOR EMERGENCY LIGHTING CONTROL AND SEQUENCE OF OPERATION:**

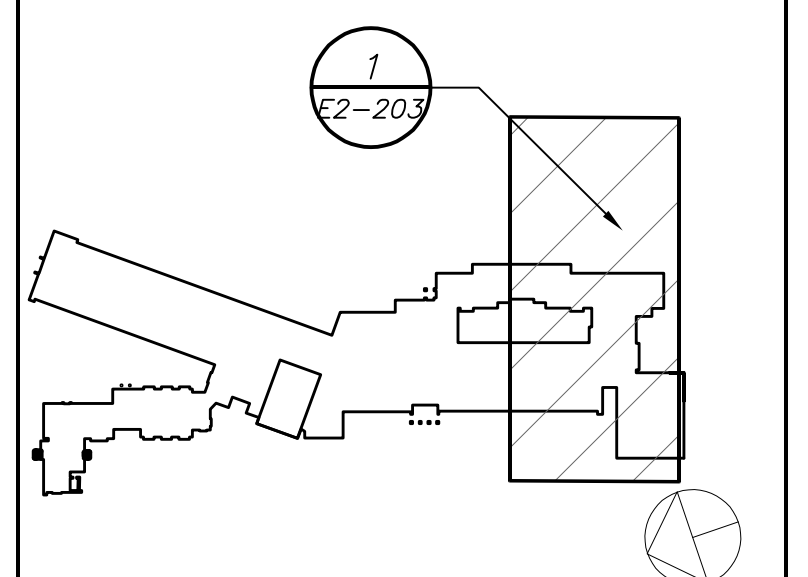
1. ALL WALL MOUNTED EXTERIOR SCONCES (TYPE Z) ARE CONTROLLED VIA BUILT-IN PHOTOCELL FOR NIGHT TIME OPERATION, AND REMOTE OCCUPANCY SENSORS TO DIM DOWN TO 50% DURING VACANCY. INCLUDE REMOTE BATTERY PACKS TO BYPASS PHOTOCELL SENSOR, AND PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS REMOTE OCCUPANCY SENSOR IN THE EVENT OF EMERGENCY.
2. ALL CANOPY MOUNTED SCONCES (TYPE Z1) ARE CONTROLLED VIA BUILT-IN OCCUPANCY SENSORS TO DIM DOWN TO 50% DURING VACANCY AND REMOTE PHOTOCELL SENSORS FOR NIGHT TIME OPERATION. INCLUDE SELF-CONTAINED BATTERY PACKS TO BYPASS OCCUPANCY SENSOR, AND PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS REMOTE PHOTOCELL IN THE EVENT OF EMERGENCY.
3. 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.

**WORK NOTES:**

1. CIRCUIT NUMBERS ARE FOR CONTRACTOR GUIDANCE ONLY. WIRE LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
2. WIRE CORRIDOR LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK. FIXTURES SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES.
3. WIRE EMERGENCY LIGHTING TO EMERGENCY LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK.
4. CIRCUIT EXTERIOR LIGHTING FIXTURE TYPE "Z" TO INTERIOR NORMAL LIGHTING CIRCUIT. FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR. INCLUDE SELF-CONTAINED BATTERY PACKS TO OVERRIDE ALL CONTROLS IN EVENT OF EMERGENCY.

**PARTIAL FIRST FLOOR PLAN**  
(NEW YORK) (PROJECT 1C)

Revision Schedule		
No.	Description	Date
1	SED Submission	09/15/2020
3	ISSUED FOR BID	01/19/2021
6	BID ADDENDUM #3	02/11/2021



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401-861-3218

SED#: 6618-0001-0003-025

PROJECT

**Rye City Schools**  
555 Theodore Fremd Ave, Suite B-101

**Midland Elementary School**  
312 Midland Ave, Rye NY 10560

**PARTIAL FIRST FLOOR LIGHTING PLAN**

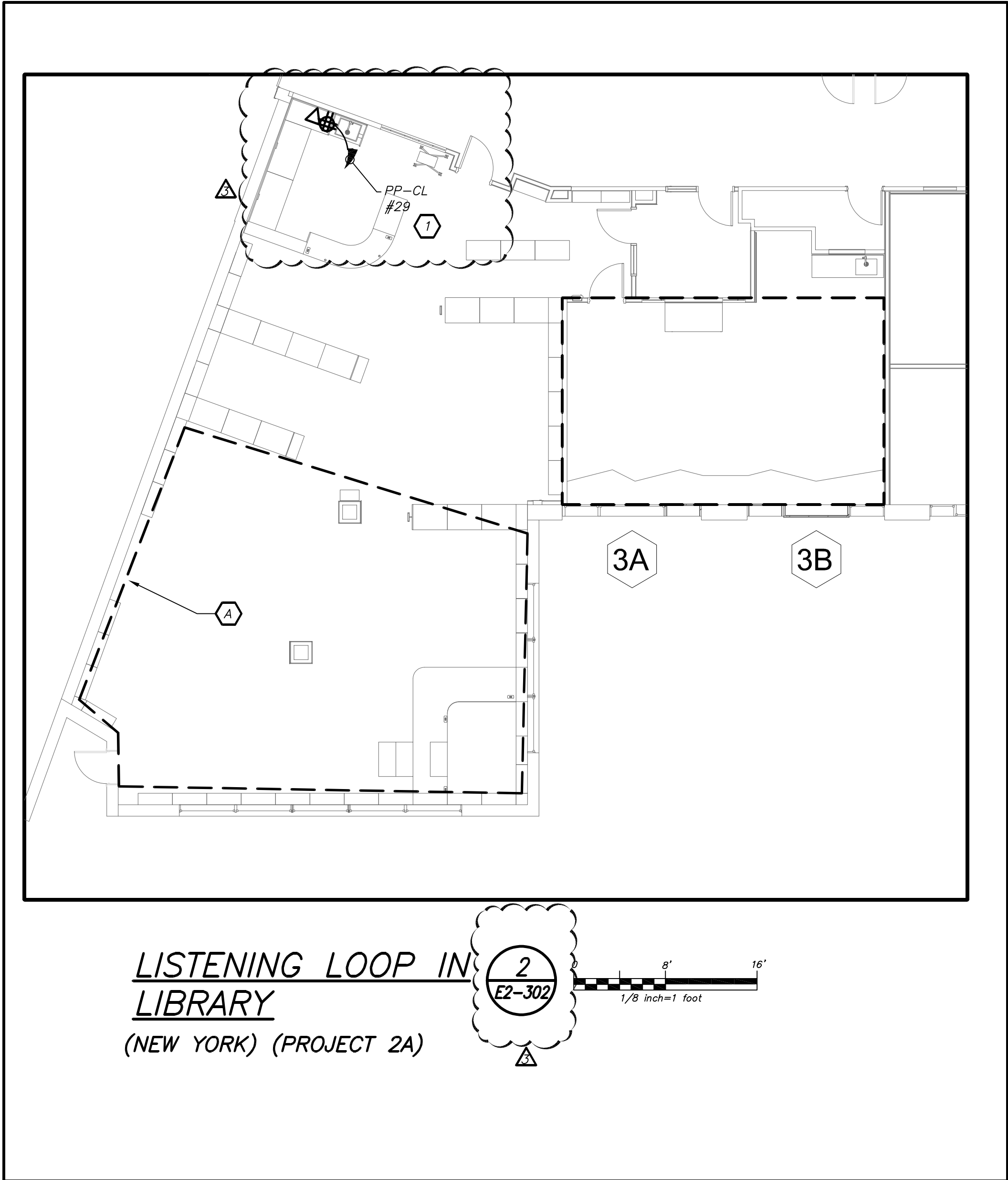
PROJECT 1C

SEAL & SIGNATURE DATE: 12/18/19  
PROJECT No: 9200  
DRAWING BY: BGA  
CHK BY: BGA  
DWG No: E2-203

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

**WORK NOTES:**

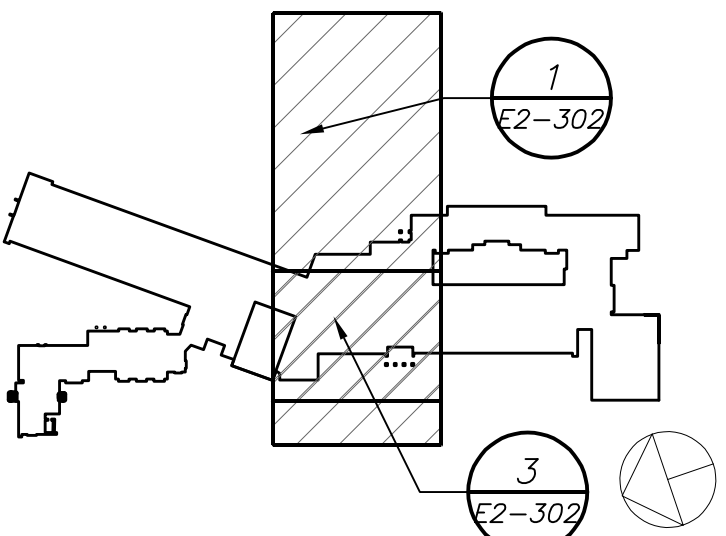
Ⓐ ELECTRICAL CONTRACTOR SHALL SCORE THE FLOOR AND FURNISH AND INSTALL TELECOIL LOOP. REFER TO AVE2 DRAWINGS FOR MORE DETAILS ON THE TOTAL SCOPE OF WORK INCLUDING 27000 SECTION OF SPECIFICATION.



- WORK NOTES:**
- FOR ALL RECEPTACLE CIRCUITS BEING FED FROM PP-CL PROVIDE 3#12+1#12G IN 3/4" CONDUIT AND 3P-20 AMP BREAKER TO CIRCUIT MADE SPARE BY DEMO WORK. CIRCUIT NUMBER GIVEN IS FOR CONTRACTOR GUIDANCE ONLY.
  - PROVIDE 3#8+1#10G IN 3/4" CONDUIT AND 3P-40 AMP BREAKER TO CIRCUIT MADE SPARE BY DEMO WORK. CIRCUIT NUMBER GIVEN IS FOR CONTRACTOR GUIDANCE ONLY.
  - PROVIDE 2#12+1#12G IN 3/4" TO CU-A LOCATED ON THE ROOF.
  - PROVIDE 2#12+1#12G IN 3/4" TO PANEL AND 2P-20 AMP BREAKER FOR TELECOIL LOOP POWER
  - PROVIDE POWER FOR FIRE SHUTTER. COORDINATE WITH ARCHITECT BEFORE THE START OF ANY WORK.
  - PROVIDE RECEPTACLE FOR CHEMICAL FEEL. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.

- GENERAL NOTES:**
- WHERE REFERENCED THE REMOVAL OF "WAP" THIS CONTRACTOR SHALL ALSO REMOVE THE EXISTING ADAPTER CLIP AND MOUNTING BRACKET AND RETURN TO OWNER IN A NEAT ORGANIZED MANNER. THIS INCLUDES ALL "WAP" TO BE WRAPPED WITH BUBBLE WRAP TO PROTECT ALL DEVICES. PROVIDE LABEL FOR CAT CABLE INDICATING "WAP" CABLE" MAINTAIN ANY EXISTING LABELS.
  - 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.

Revision Schedule		
No.	Description	Date
1	SED Submission	09/15/2020
3	ISSUED FOR BID	01/19/2021
6	BID ADDENDUM #3	02/11/2021



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518-463-4400  
  
Acoustic Consultant  
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SED#: 6618-0001-0003-025

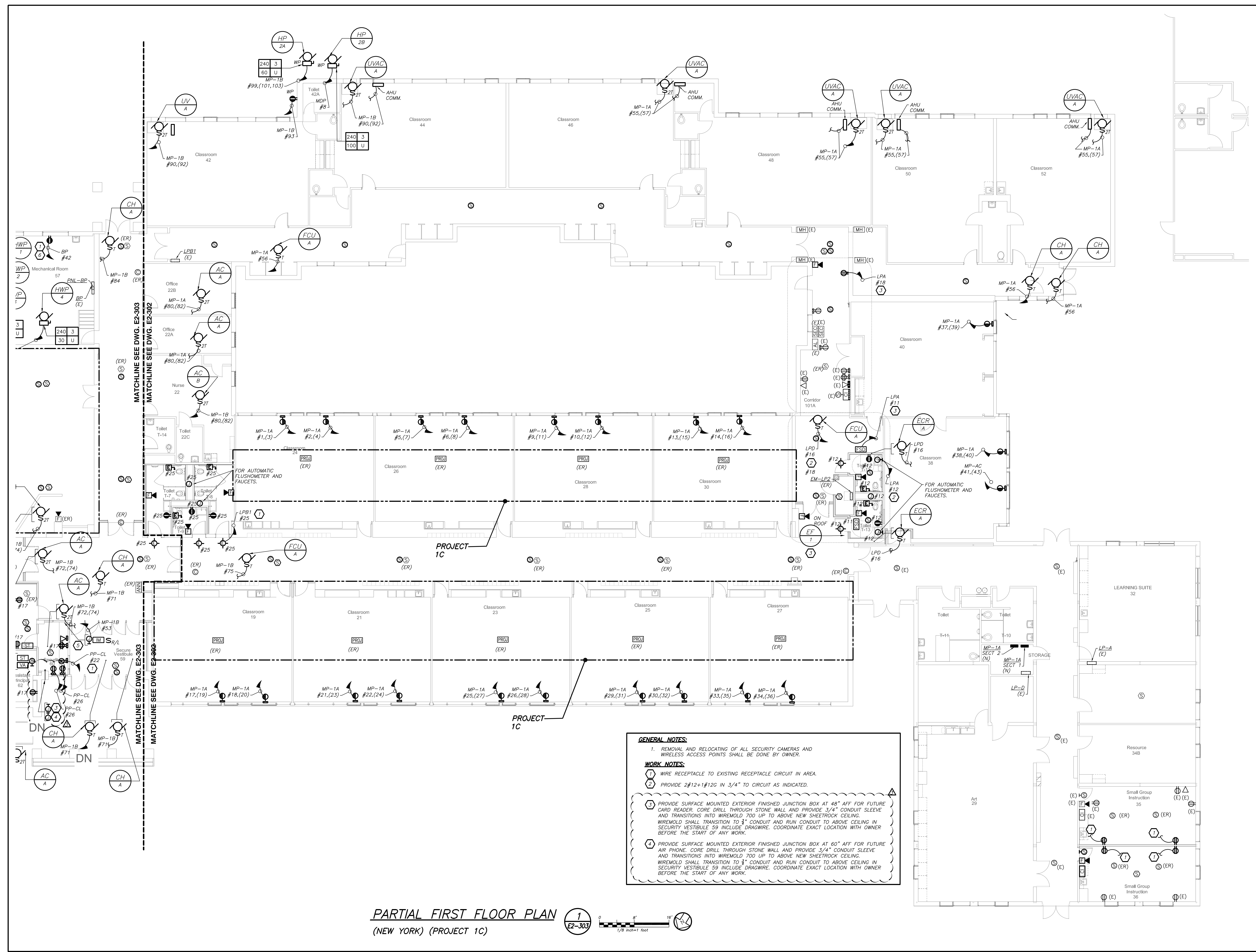
PROJECT  
Rye City Schools  
555 Theodore Fremd Ave, Suite B-101  
Midland Elementary School  
  
312 Midland Ave, Rye NY 10560

PARTIAL FIRST FLOOR  
POWER AND FIRE  
ALARM PLAN

PROJECT 1A, 2, 2A, 2B

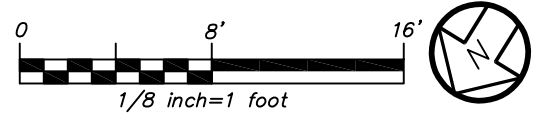
SEAL & SIGNATURE DATE: 12/18/19  
PROJECT No: 9200  
DRAWING BY: BGA  
CHK BY: BGA  
DWG No: E2-302

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



PARTIAL FIRST FLOOR PLAN  
(NEW YORK) (PROJECT 1C)

1  
E2-303



GENERAL NOTES:

1. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.

WORK NOTES:

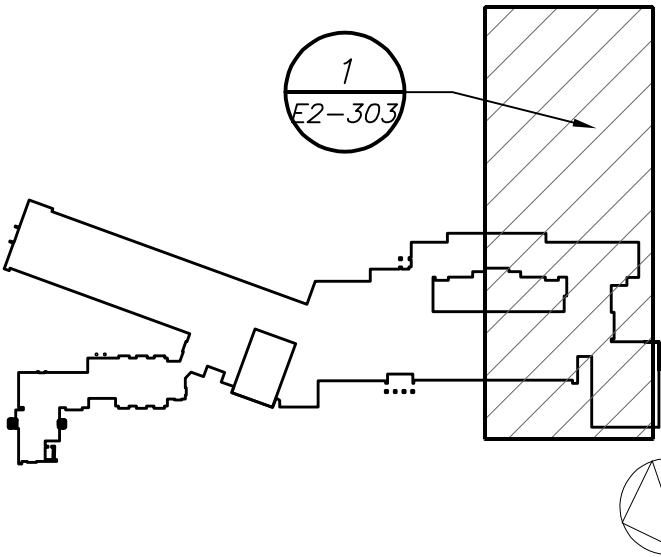
1. WIRE RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT IN AREA.
2. PROVIDE 2#12+1#12G IN 3/4" TO CIRCUIT AS INDICATED.

3. PROVIDE SURFACE MOUNTED EXTERIOR FINISHED JUNCTION BOX AT 48" AFF FOR FUTURE CARD READER. CORE DRILL THROUGH STONE WALL AND PROVIDE 3/4" CONDUIT SLEEVE AND TRANSITIONS INTO WIREMOLD 700 UP TO ABOVE NEW SHEETROCK CEILING. WIREMOLD SHALL TRANSITION TO 3" CONDUIT AND RUN CONDUIT TO ABOVE CEILING IN SECURITY VESTIBULE 59 INCLUDE DRAGWIRE. COORDINATE EXACT LOCATION WITH OWNER BEFORE THE START OF ANY WORK.

4. PROVIDE SURFACE MOUNTED EXTERIOR FINISHED JUNCTION BOX AT 60" AFF FOR FUTURE AIR PHONE. CORE DRILL THROUGH STONE WALL AND PROVIDE 3/4" CONDUIT SLEEVE AND TRANSITIONS INTO WIREMOLD 700 UP TO ABOVE NEW SHEETROCK CEILING. WIREMOLD SHALL TRANSITION TO 3" CONDUIT AND RUN CONDUIT TO ABOVE CEILING IN SECURITY VESTIBULE 59 INCLUDE DRAGWIRE. COORDINATE EXACT LOCATION WITH OWNER BEFORE THE START OF ANY WORK.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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401-861-3218

SED#: 6618-0001-0003-025

PROJECT

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PARTIAL FIRST FLOOR  
POWER AND FIRE  
ALARM PLAN

PROJECT 1C

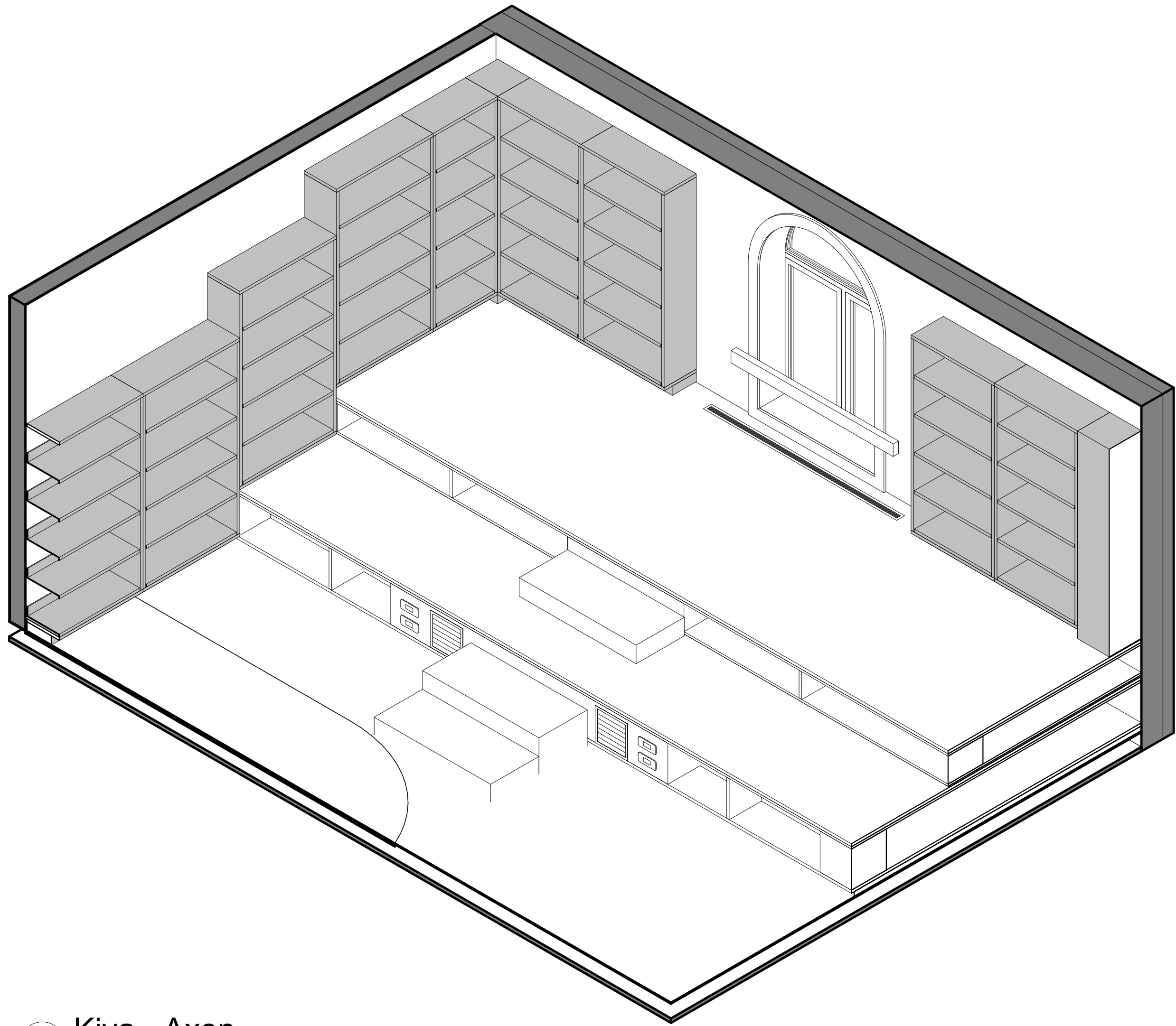
SEAL & SIGNATURE DATE: 12/18/19

PROJECT No: 9200

DRAWING BY: BGA

CHK BY: BGA

DWG No: E2-303



1 Kiva - Axon

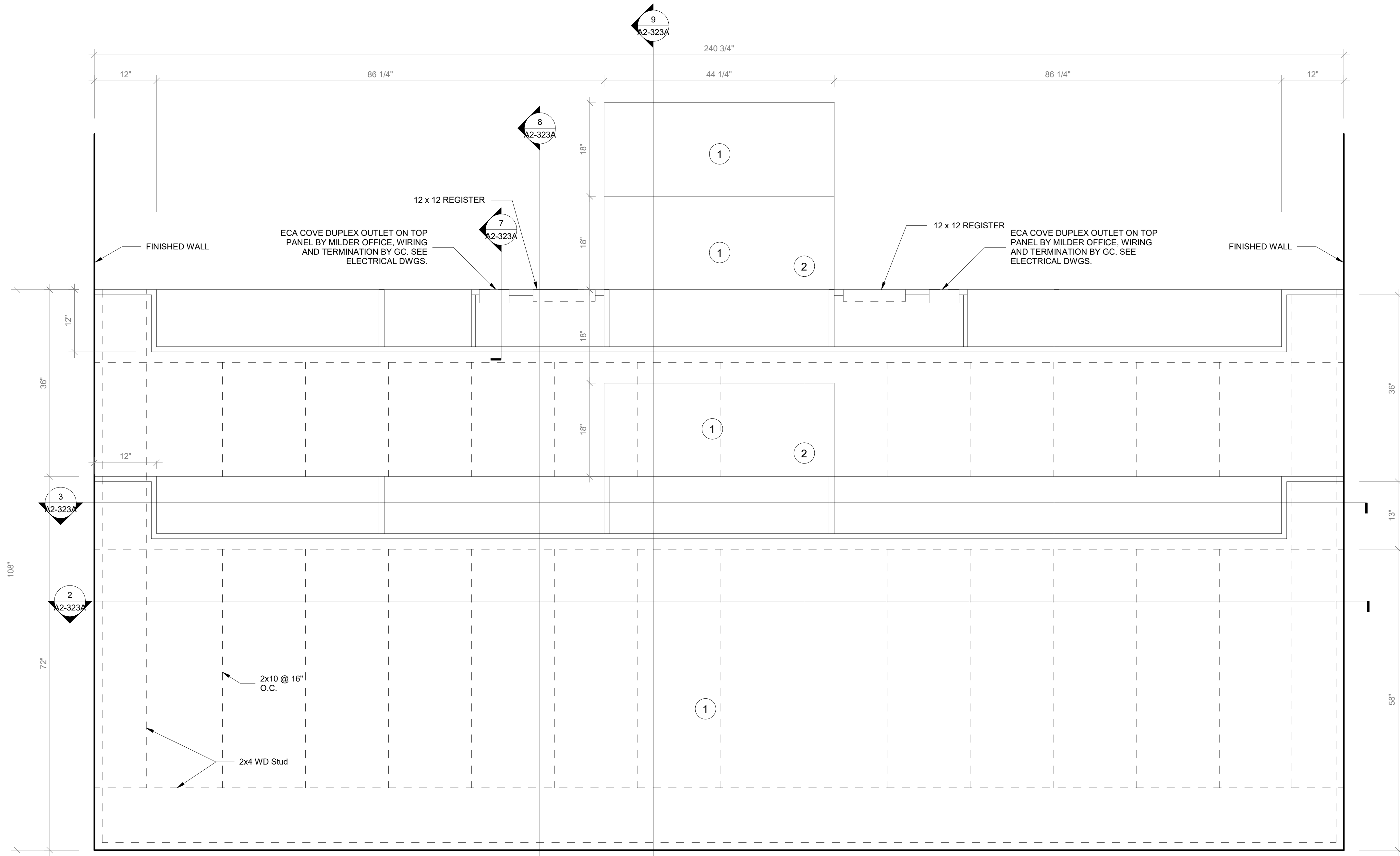
SCALE

GENERAL NOTE:

GC TO PROVIDE STAMPED SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO BUILDING ANY PART OF KIVA PLATFORM.

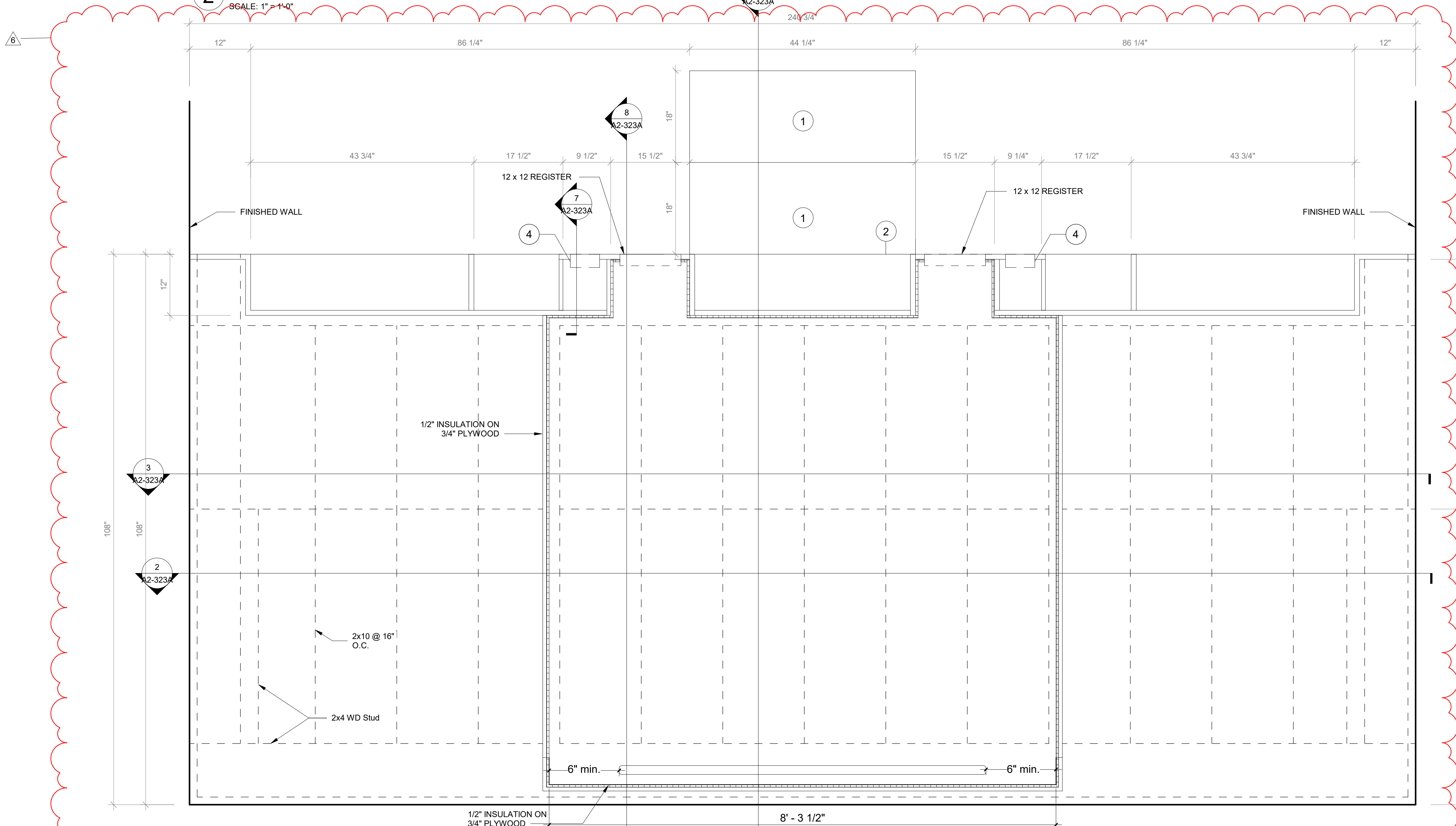
KIVA FINISH NOTES:

1. RUBBER FLOORING. SEE FLOORING PATTERN PLAN.
2. PLASTIC LAMINATE: PL-2. SEE FINISH LEGEND AND SCHEDULE.
3. RUBBER STAIR NOSING. PROVIDE SAMPLES FOR APPROVAL. COLOR TO BE CHOSEN FROM MFG'S RJ. RANGE OF COLOR OPTIONS.
4. ECA COVE DUPLEX OUTLET TERMINATION BY EC. SEE ELECTRICAL DRAWINGS.
5. ECA VILLA II DUPLEX OUTLET: TERMINATION BY EC; ELECTRICAL DRAWINGS.



2 Kiva Plan

SCALE: 1" = 1'-0"



3 Under Kiva Airway Framing Plan

SCALE: 1" = 1'-0"

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AV Consultant  
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978-443-7871

SED#: 6618-0001-0002-015

PROJECT

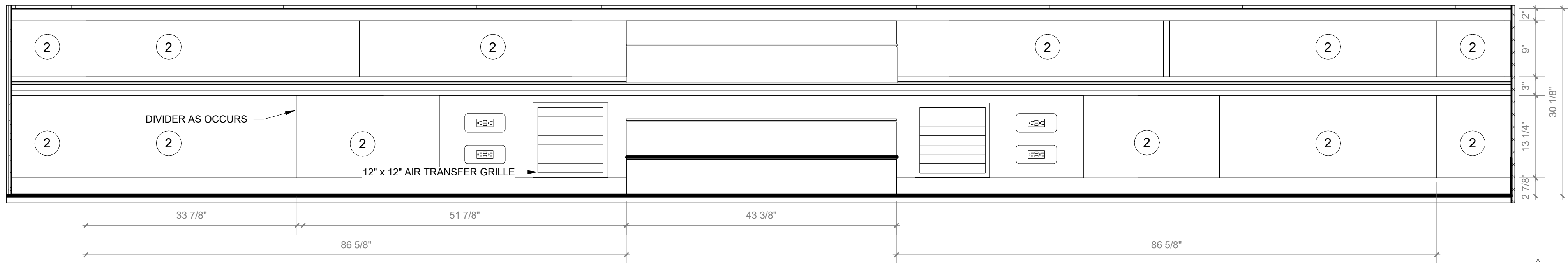
Rye City Schools  
555 Theodore Fremd Ave, Suite B-101  
Milton Elementary School

12 Hewlett St, Rye, NY 10580

LIBRARY KIVA - TIERED  
SEATING

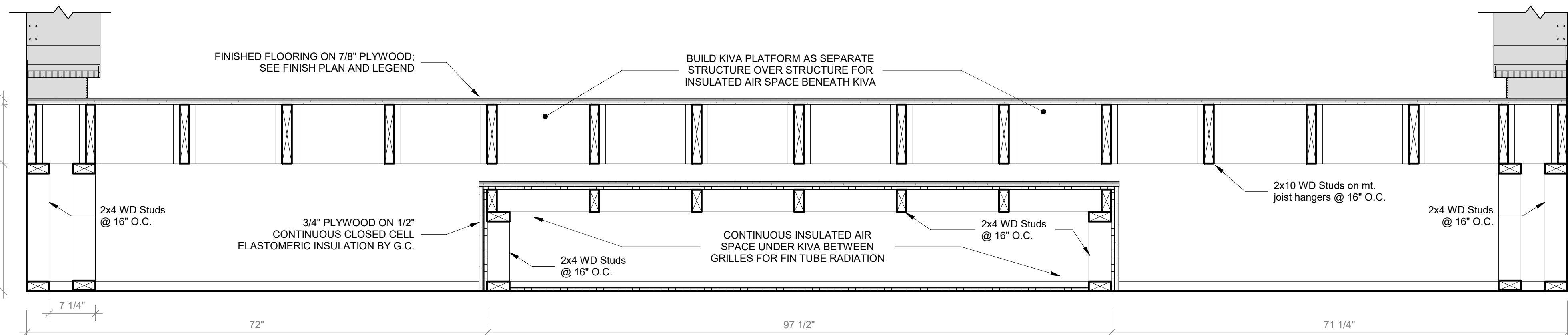
PROJECT 2B

SEAL & SIGNATURE | DATE: 04/27/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-322A



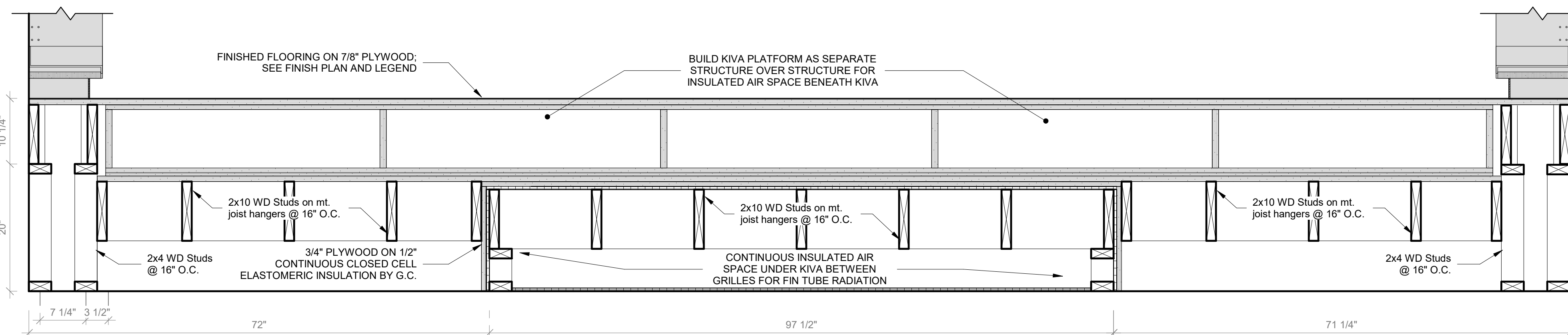
1 Kiva Frontal Elevation A

SCALE: 1" = 1'-0"



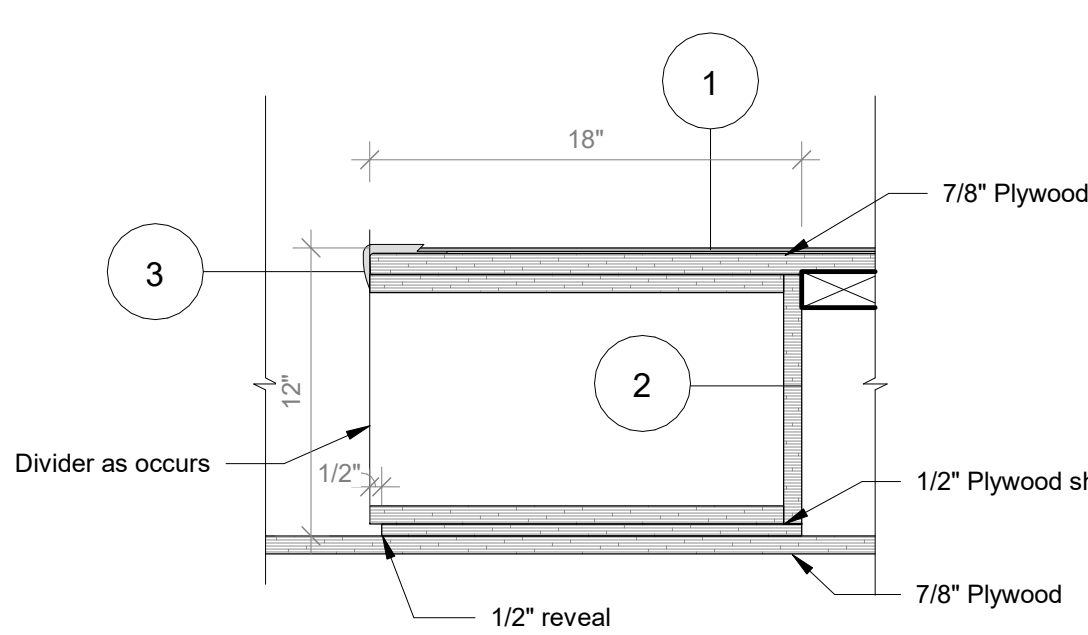
2 Kiva Section D

SCALE: 1" = 1'-0"



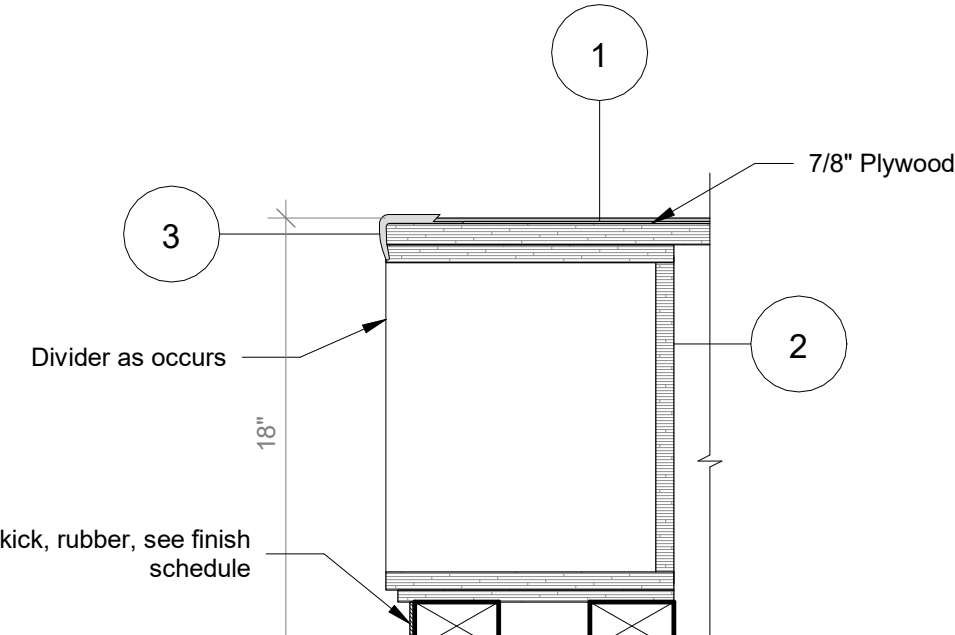
3 Kiva Section E

SCALE: 1" = 1'-0"



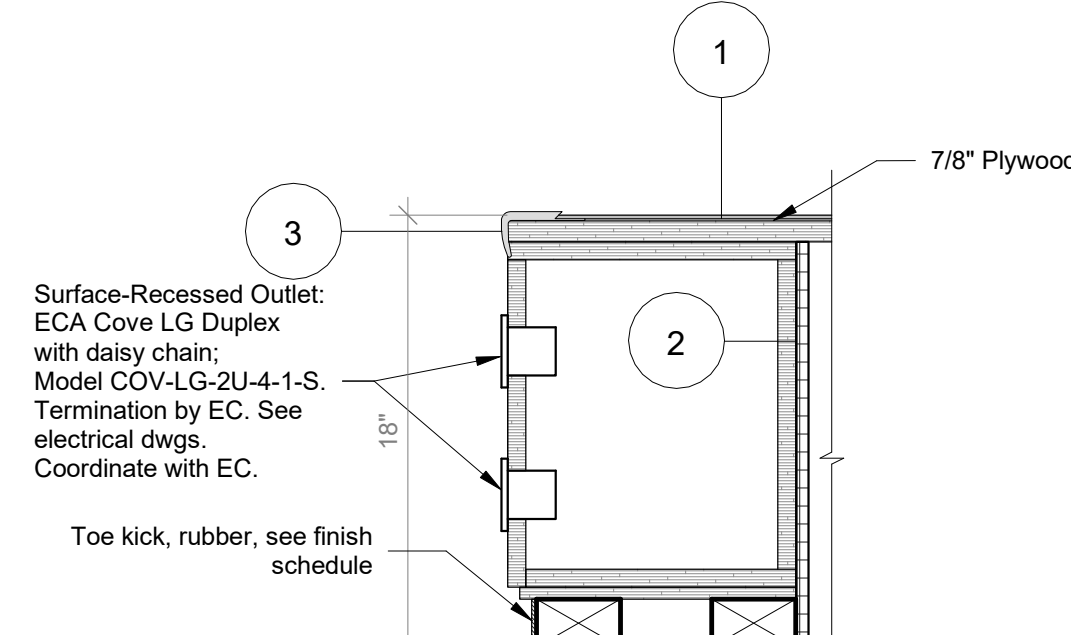
4 Kiva - Upper Cubbie

SCALE: 1 1/2" = 1'-0"



5 Kiva - Lower Cubbie

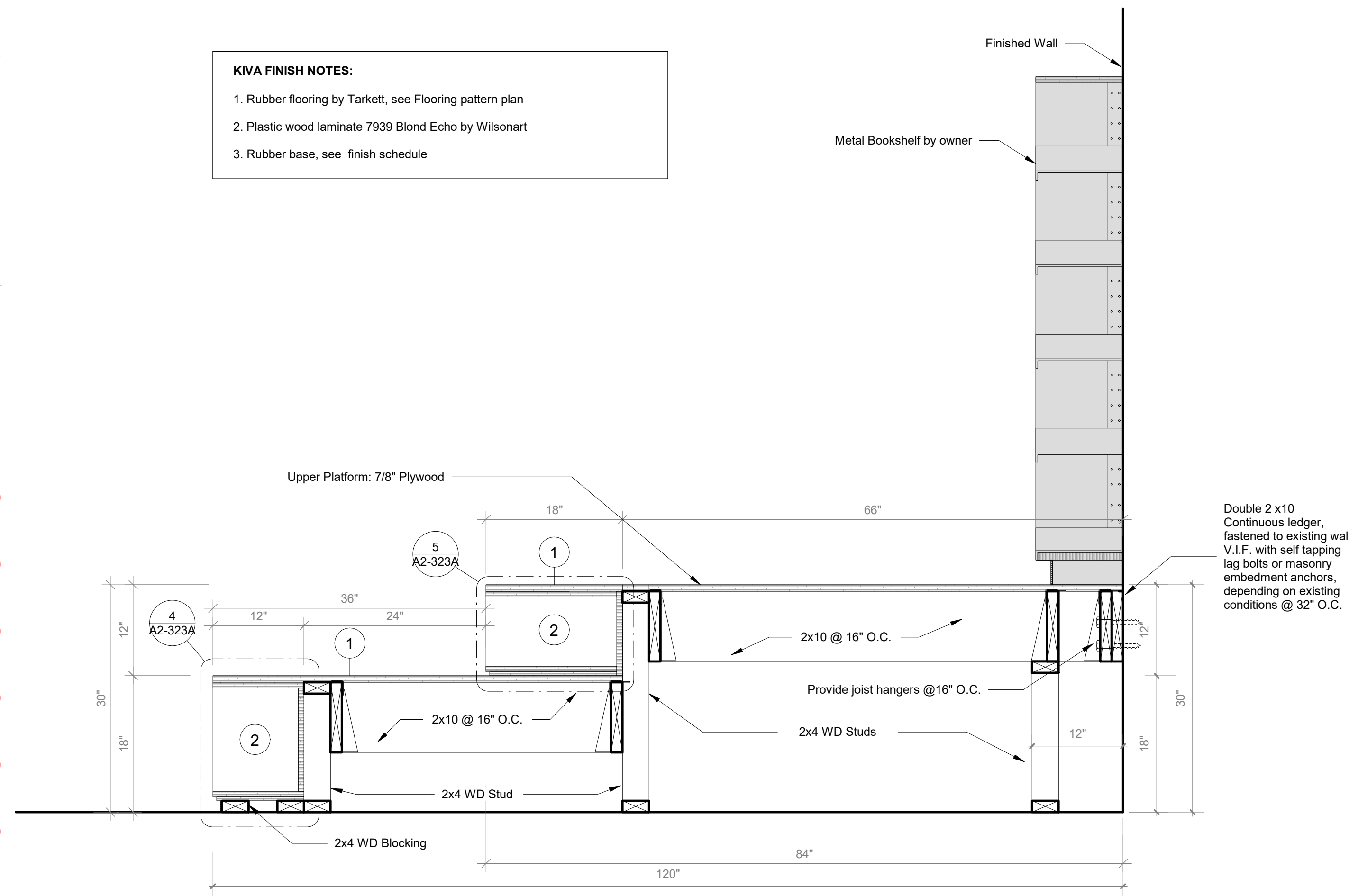
SCALE: 1 1/2" = 1'-0"



7 Kiva - Cubbie Outlet Detail

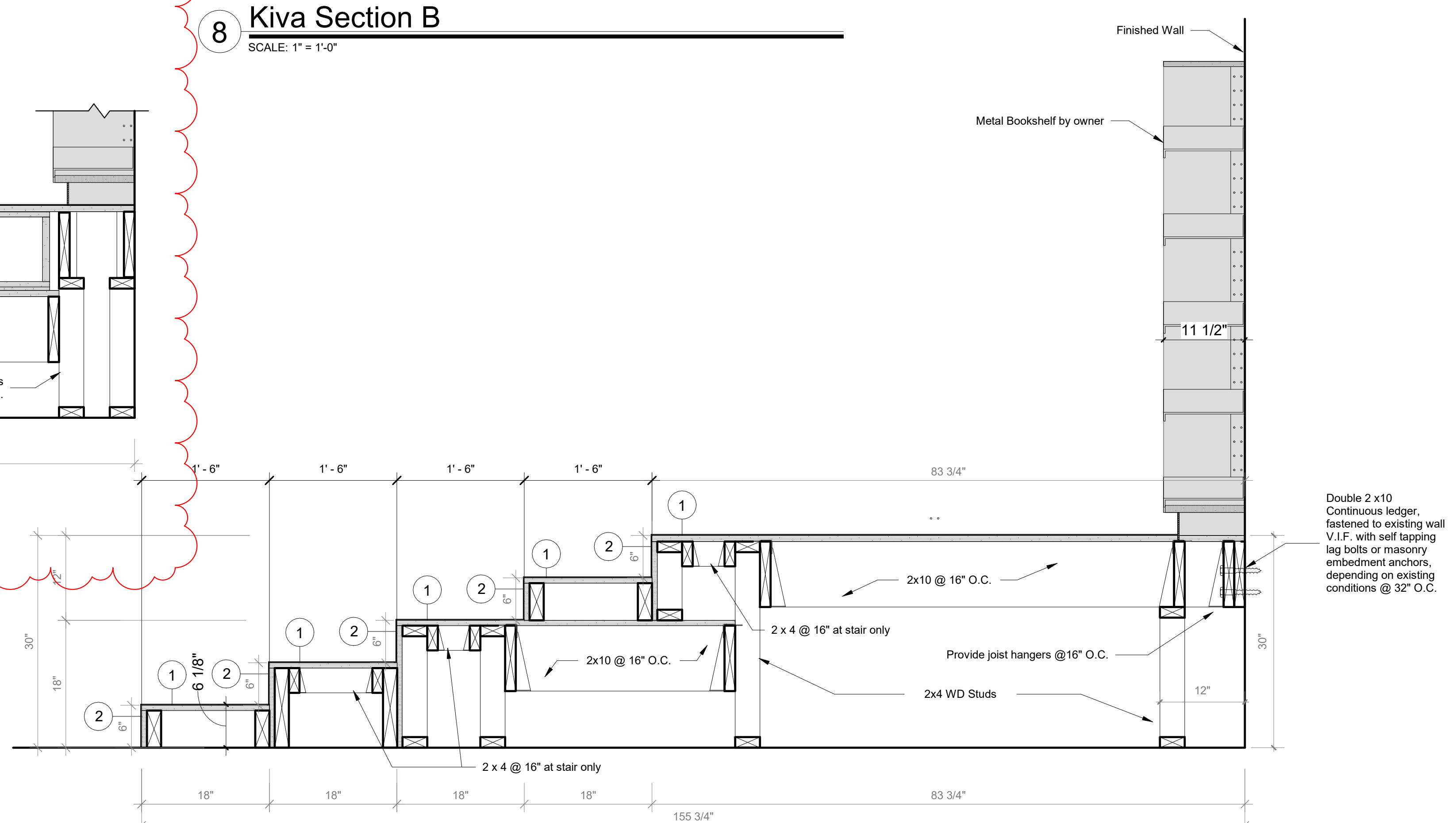
SCALE: 1 1/2" = 1'-0"

- KIVA FINISH NOTES:**
1. Rubber flooring by Tarkett; see Flooring pattern plan
  2. Plastic wood laminate 7939 Blond Echo by Wilsonart
  3. Rubber base, see finish schedule



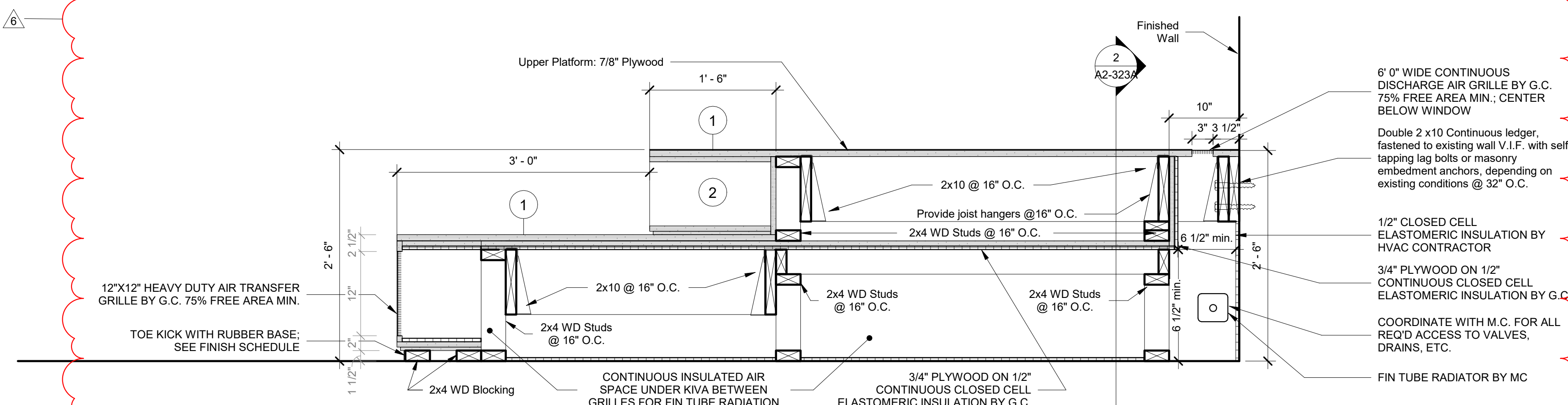
8 Kiva Section B

SCALE: 1" = 1'-0"



9 Kiva Section A

SCALE: 1" = 1'-0"



10 Kiva Section C

SCALE: 1" = 1'-0"

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PROJECT

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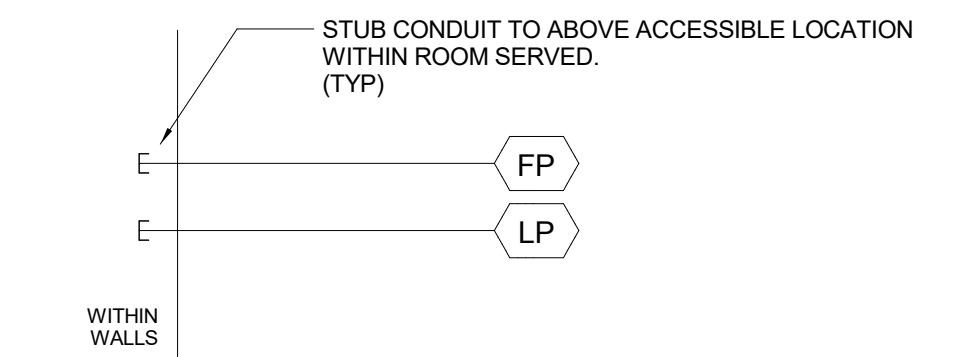
LIBRARY KIVA - TIERED SEATING

PROJECT 2B

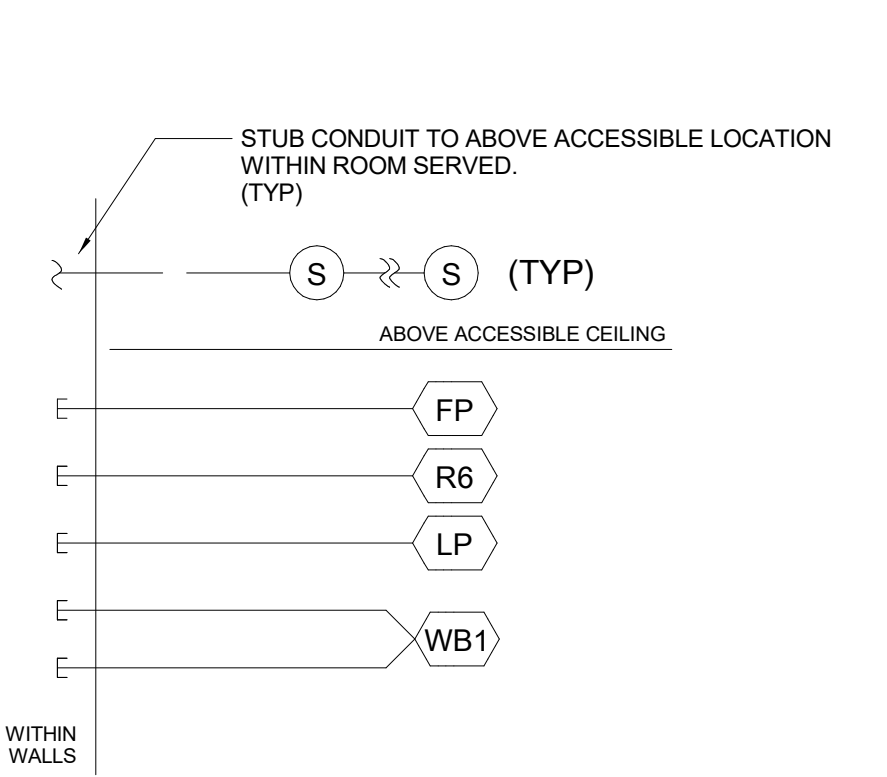
SEAL & SIGNATURE DATE: 08/12/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-323A

AUDIOVISUAL DEVICE KEY				
DEVICE	DESCRIPTION	BACK BOX DESCRIPTION	MOUNTING HEIGHT ADVICE	COMMENTS
FP	FLAT PANEL DISPLAY	LARGE IN-WALL JUNCTION BOX WITH FLANGE	DIRECTED BY ARCHITECT	
LP	LAPTOP CONNECTION	TWO-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL 18" AFF	
PSE	PROJECTION SCREEN	ONE GANG ELECTRICAL BOX	DIRECTED BY ARCHITECT	
R6	TOUCH CONTROL PANEL	SINGLE-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL AT STANDARD SWITCH HEIGHT. ORIENT BOX WITH LONG DIMENSION HORIZONTAL.	
S	FLUSH-MOUNT CEILING LOUDSPEAKER, 4"	LOUDSPEAKER-SPECIFIC BACK BOX	FLUSH IN CEILING	
VP1	CEILING MOUNTED VIDEO PROJECTOR	ONE GANG ELECTRICAL BOX	AT CEILING	
WB1	AV CONNECTION PLATE	FOUR-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL 18" AFF	

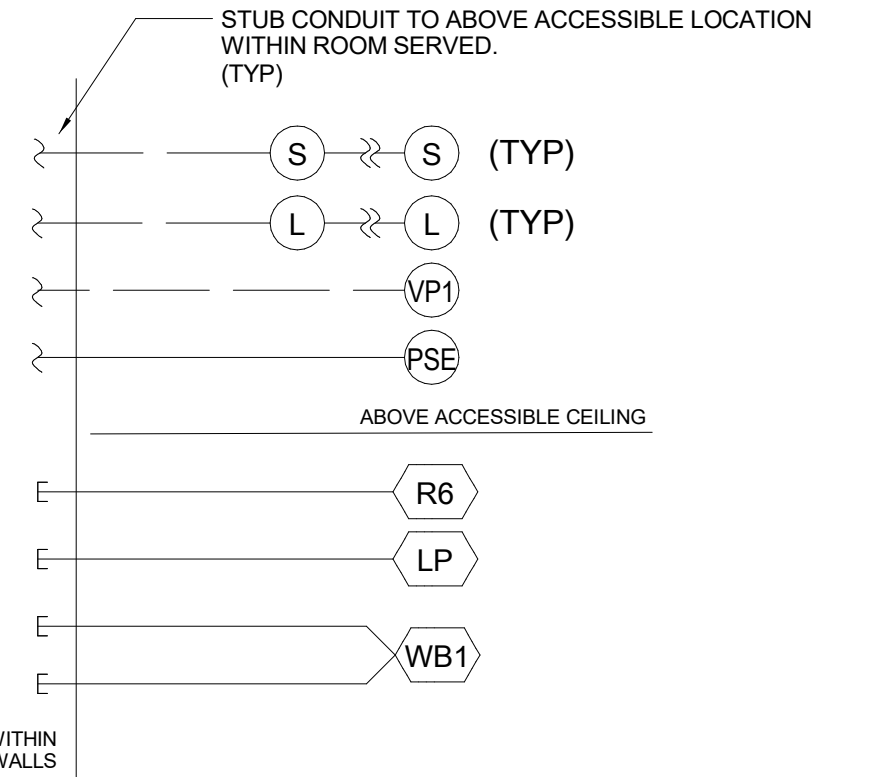
AUDIOVISUAL SHEET LIST	
SHEET NUMBER	SHEET NAME
AVE2-001	AUDIOVISUAL KEYS, NOTES AND SCHEDULES
AVE2-101	AUDIOVISUAL FLOOR PLAN - LIBRARY
AVE2-111	AUDIOVISUAL RCP - LIBRARY
AVE2-201	HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - LIBRARY



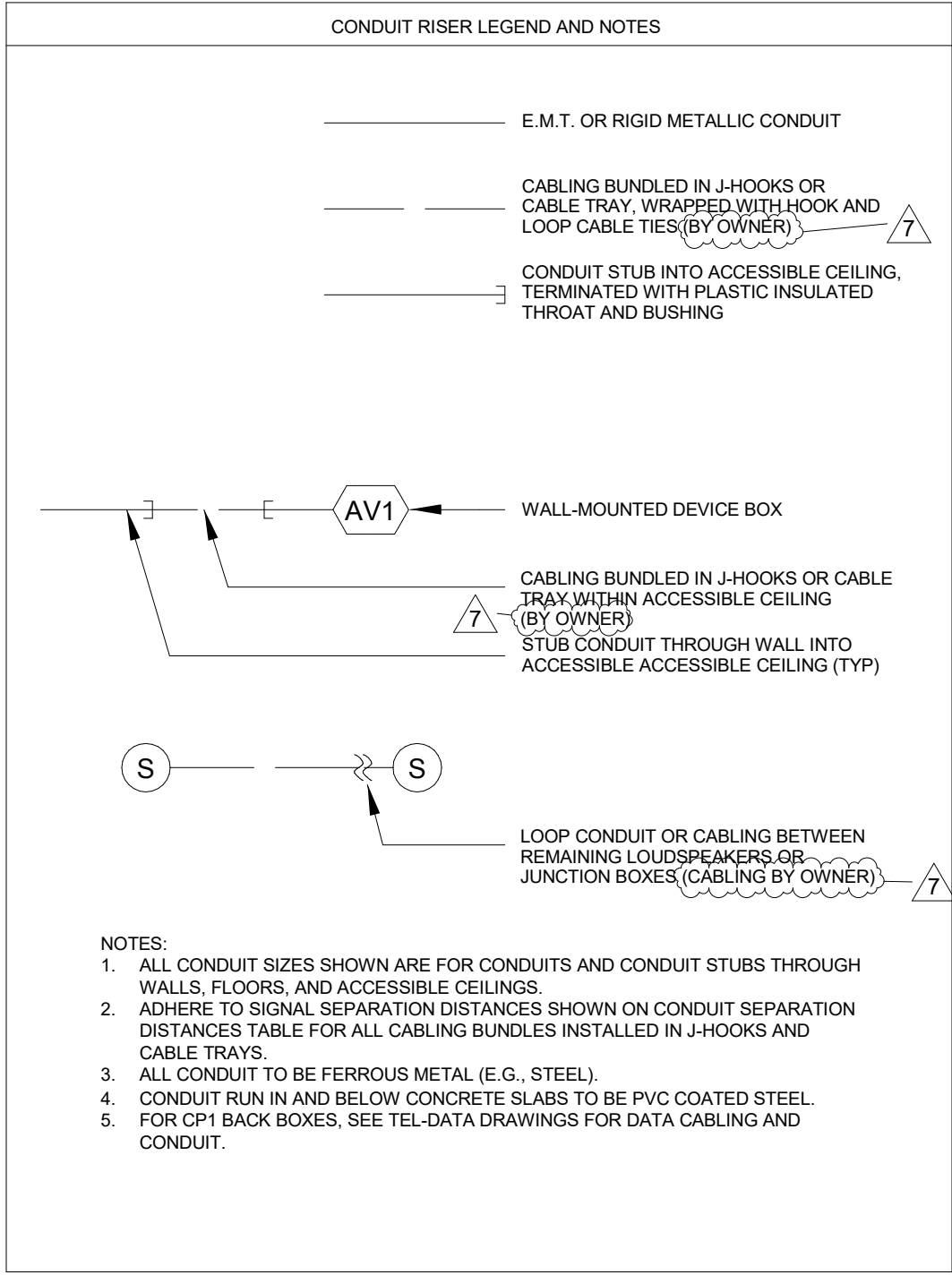
7 RISER DIAGRAMS - SMALL GROUP ROOM NTS



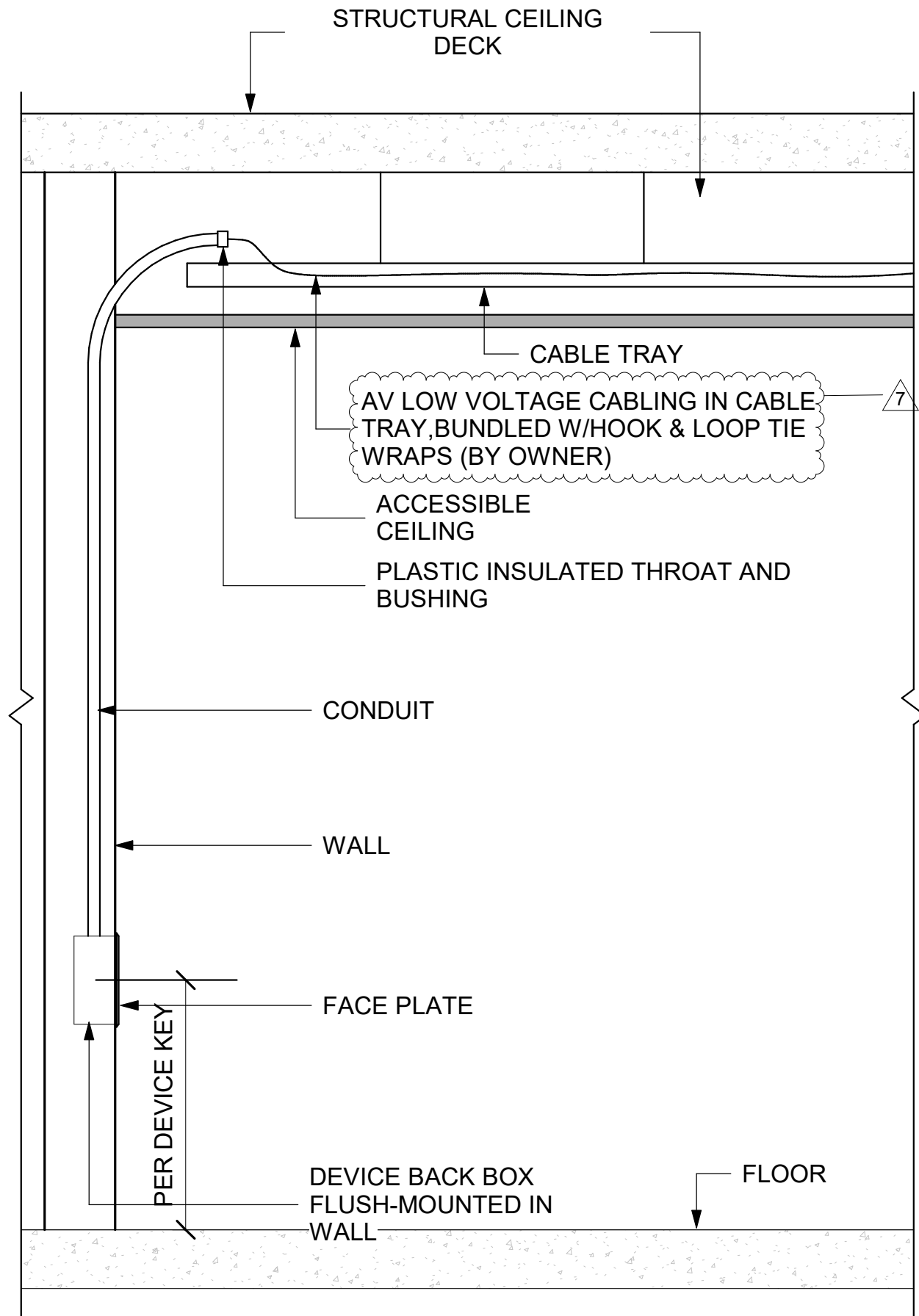
6 RISER DIAGRAMS - DISPLAY AREA NTS



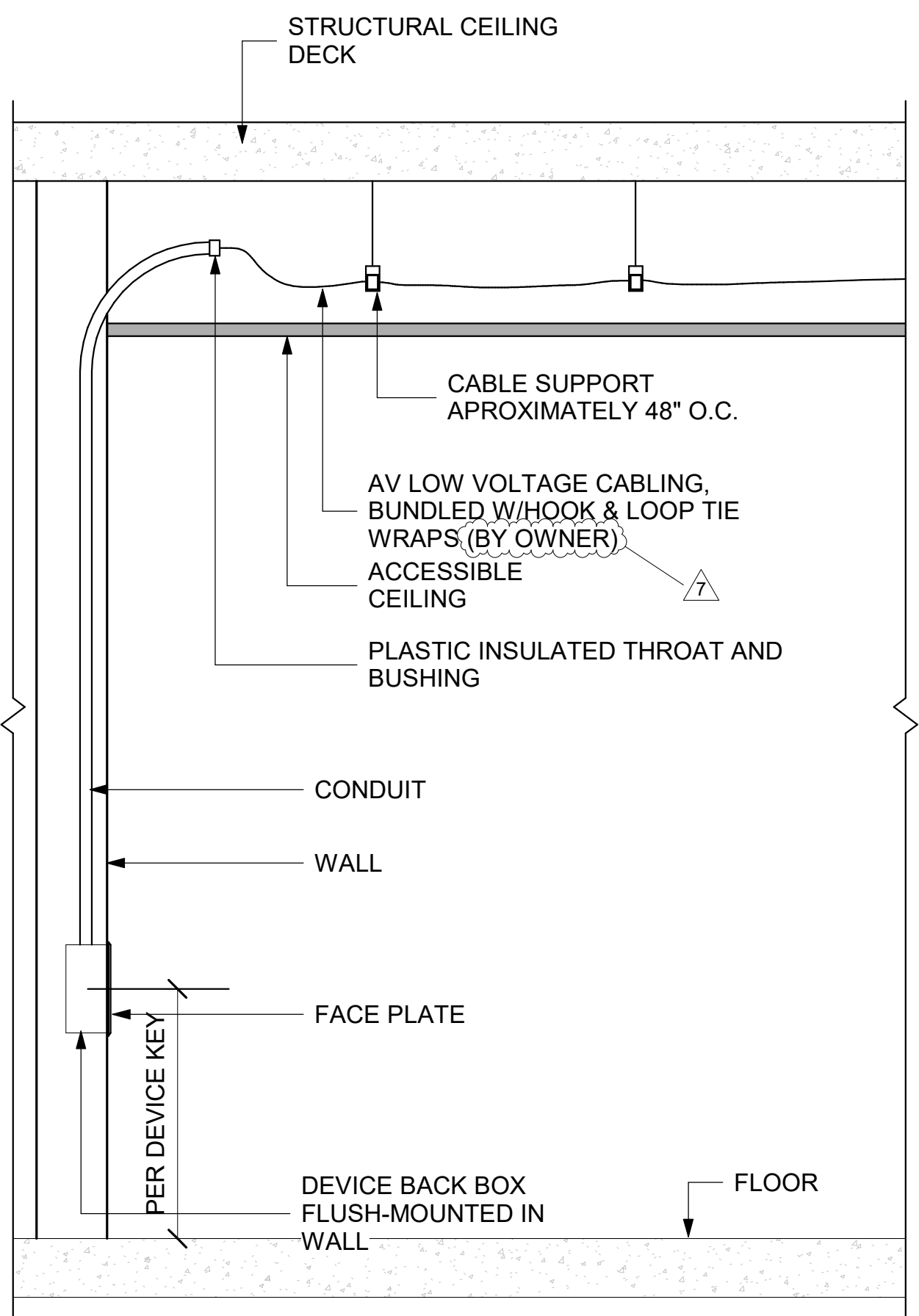
5 RISER DIAGRAMS - PROJECTOR AREA NTS



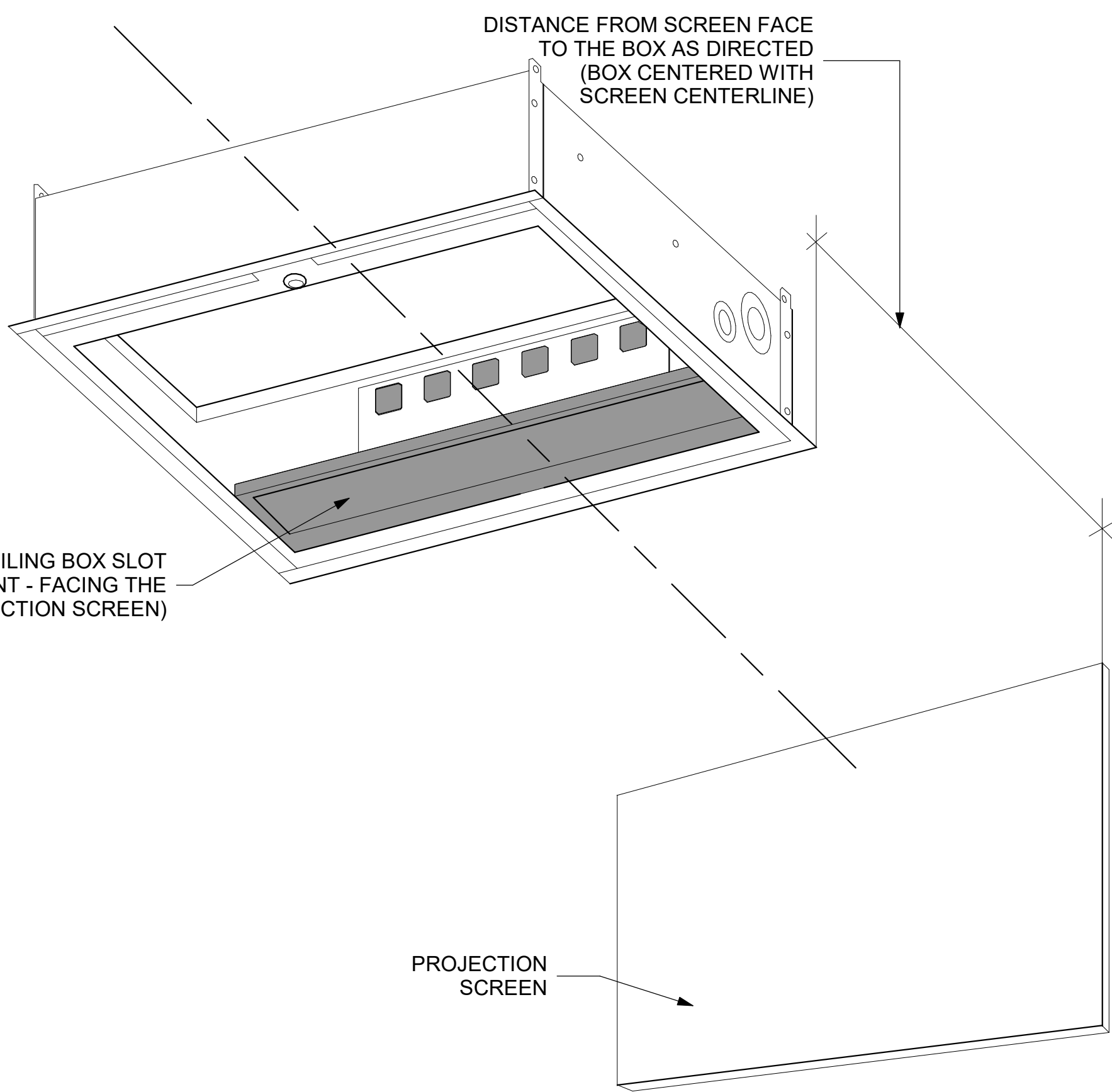
2 CEILING BOX EQUIPMENT RACK NTS



4 ACCESSIBLE CONDUIT STUB DETAIL - CABLE TRAY NTS



3 ACCESSIBLE CONDUIT STUB DETAIL - J-HOOK NTS



1 DETAIL - EQUIPMENT MOUNTING AT MONITOR NTS

## ELECTRICAL NOTES

- ALL CONDUIT TO BE STEEL EMT (ELETRICAL METALLIC TUBING) EXCEPT AS NOTED.
- ALL CONDUIT 3/4" UNLESS OTHERWISE NOTED.
- 70-VOLT LOUDSPEAKER WIRING IN ACCESSIBLE CEILINGS CAN BE RUN OUTSIDE OF CONDUIT WITH CABLE SUPPORTS. CONDUIT RUN IN AND BELOW CONCRETE SLABS ON GRADE TO BE PVC COATED STEEL.
- ALL CONDUIT TO BE HOME RUNS TO JUNCTION BOXES UNLESS OTHERWISE NOTED.
- INTERMEDIATE MARSHALLING BOXES FOR THE GROUPING OF HOME RUN CONDUITS BY CONDUIT GROUP ARE ACCEPTABLE. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONDUIT CAPACITY AND PULL BOX SIZE. USE 30% FILL FOR CONDUIT SIZE CALCULATIONS.
- FOR FLUSH-MOUNTED GANG BOXES USE RACO 3-1/2" DEEP STEEL BACK BOXES OR EQUAL.
- FOR SURFACE- AND PIPE-MOUNTED GANG BOXES USE FSR SMWB, LEVITON BKBOX SERIES SURFACE MOUNT POWDER-COATED STEEL BOX OR EQUAL BY ELECTRONIC THEATRE CONTROLS.
- USE SEPARATE STEEL CONDUITS FOR MICROPHONE-LEVEL CIRCUITS (BELOW -20 DBM), LINE-LEVEL CIRCUITS (UP TO +30 DBM), LOUDSPEAKER CIRCUITS (ABOVE +30 DBM), CONTROL CIRCUITS, DATA CIRCUITS, VIDEO CIRCUITS AND POWER CIRCUITS. USE AUDIO CONDUIT THAT IS SPACED AT LEAST 12 INCHES AWAY FROM POWER CONDUIT. INSULATE ALL CONDUIT FROM THE EQUIPMENT RACK(S); GROUND CONDUIT ONLY TO POWER SYSTEM GROUND. DO NOT SPLICE LINES IN CONDUIT. CONNECT EACH INPUT RECEPTACLE BY AN INDIVIDUAL, INSULATED LINE TO THE SYSTEM EQUIPMENT RACK.
- GROUP D CONDUITS WITH CATEGORY CABLE MAXIMUM RUN: 300 FEET.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDUIT SIZE.
- PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
- PROVIDE PULL BOX AFTER 180 DEGREES OF CONDUIT BEND.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL STANDARD ELECTRICAL BACK BOXES AND FLOOR BOXES.
- REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.

## ELECTRICAL DEVICE KEY

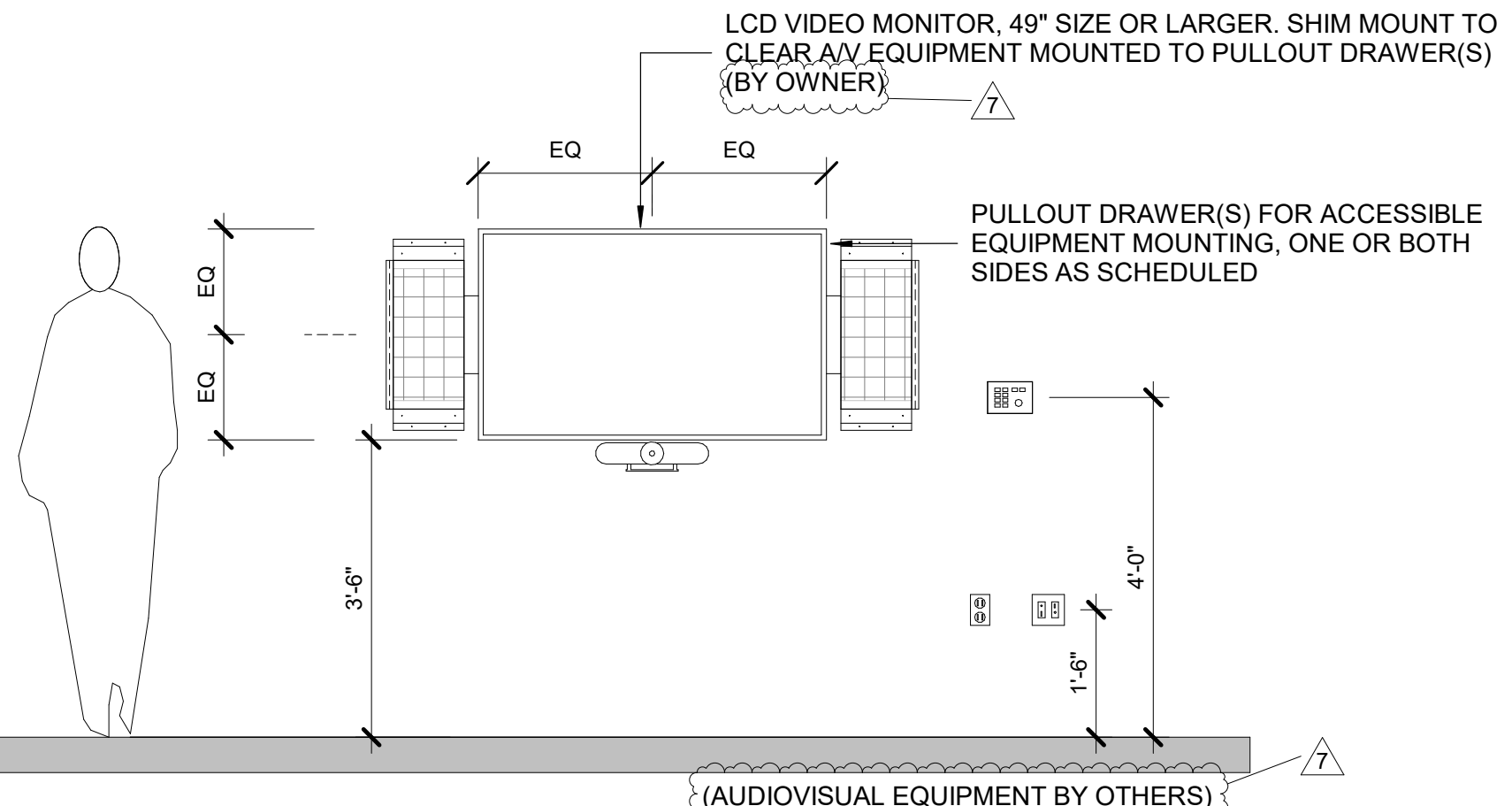
ELECTRICAL DEVICE NOTE:  
1. 120V ELECTRICAL POWER DEVICES AND FLOOR BOXES ARE SHOWN FOR REFERENCE ONLY.  
2. SUBSCRIPT AT RECEPTACLE INDICATES CIRCUIT ASSIGNMENT;  
3. DO NOT SHARE CIRCUITS BETWEEN ROOMS, AND DO NOT SHARE WITH OTHER LOADS UNLESS INDICATED.  
4. WHERE CIRCUIT ASSIGNMENT IS INDICATED, FEED CIRCUITS WITHIN A ROOM FROM A COMMON PANEL AND FROM A COMMON PHASE IN THAT PANEL. WHERE SUBSCRIPT NOT SHOWN, ASSIGN CIRCUITS PER CODE REQUIREMENTS.

- Ⓢ DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED.
- Ⓢ DOUBLE DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED.
- Ⓢ SINGLE NEMA TYPE L5-30 120VAC 30A TWIST-LOCK RECEPTACLE MOUNTED AT PROJECT RECEPTACLE HEIGHT, UNLESS OTHERWISE NOTED.
- Ⓢ DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN CEILING.
- Ⓢ DOUBLE DUPLX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN CEILING.
- Ⓢ SINGLE NEMA TYPE L5-30 120V 30A TWIST-LOCK RECEPTACLE MOUNTED IN CEILING.
- Ⓢ FLEXIBLE CONNECTION TO 120VAC SERVICE. CIRCUIT PER CODE REQUIREMENTS.
- Ⓢ RAISED FLOOR GROMMET FOR AUDIOVISUAL CABLE PATHWAY, SIZE AS REQUIRED
- Ⓢ PROJECTION SCREEN UP/ DOWN SWITCH
- Ⓢ 2" CONDUIT SLEEVE WITH FIRE STOPPING, HILTI SPEED SLEEVE CP 653. INSTALL 12" ABOVE LOWEST FINISHED CEILING

## AV SYSTEMS DATA DEVICE KEY

DATA DEVICE NOTE:  
1. DATA COMMUNICATION DEVICES ARE SHOWN FOR REFERENCE ONLY; ALL STRUCTURED CABLING INCLUDING CAT 6, FIBER AND OTHER LOW VOLTAGE WIRINGS ARE BY OWNER.  
2. # SYMBOL INDICATE DATA CONNECTION QUALITY.  
3. AV DRAWINGS INDICATE MINIMUM SERVICES REQUIRED TO SUPPORT AUDIOVISUAL SYSTEMS. PROVIDE ADDITIONAL SERVICES AS MAY BE REQUIRED FOR OTHER PURPOSES.

D# DATA CONNECTION, CAT6 OR PROJECT STANDARD, FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED.  
D# DATA CONNECTION, CAT6 OR PROJECT STANDARD, FLUSH MOUNTED IN CEILING AT AUDIOVISUAL SYSTEM DEVICE.  
D# DATA CONNECTION, CAT6 OR PROJECT STANDARD, WITHIN AUDIOVISUAL SYSTEMS DEVICE. PROVIDE 48" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR.  
D# DATA CONNECTION, CAT6 OR PROJECT STANDARD, ON AV SYSTEMS FACEPLATE. PROVIDE 18" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR. FACEPLATE WITH RUGGEDIZED RJ45 CONNECTORS BY AV SYSTEMS CONTRACTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR. DUPLEX FIBER OPTIC DATA UPLINK TO REMOTE NETWORK SWITCH.



Revision Schedule		
No.	Description	Date

7	BID ADDENDUM #3	2/11/2021
---	-----------------	-----------

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401-861-3218 978-443-7871

SED#: 6618-0001-0002-015

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Milton Elementary School

12 Hewlett St., Rye, NY 10580

AUDIOVISUAL KEYS, NOTES  
AND SCHEDULES

PROJECT 2

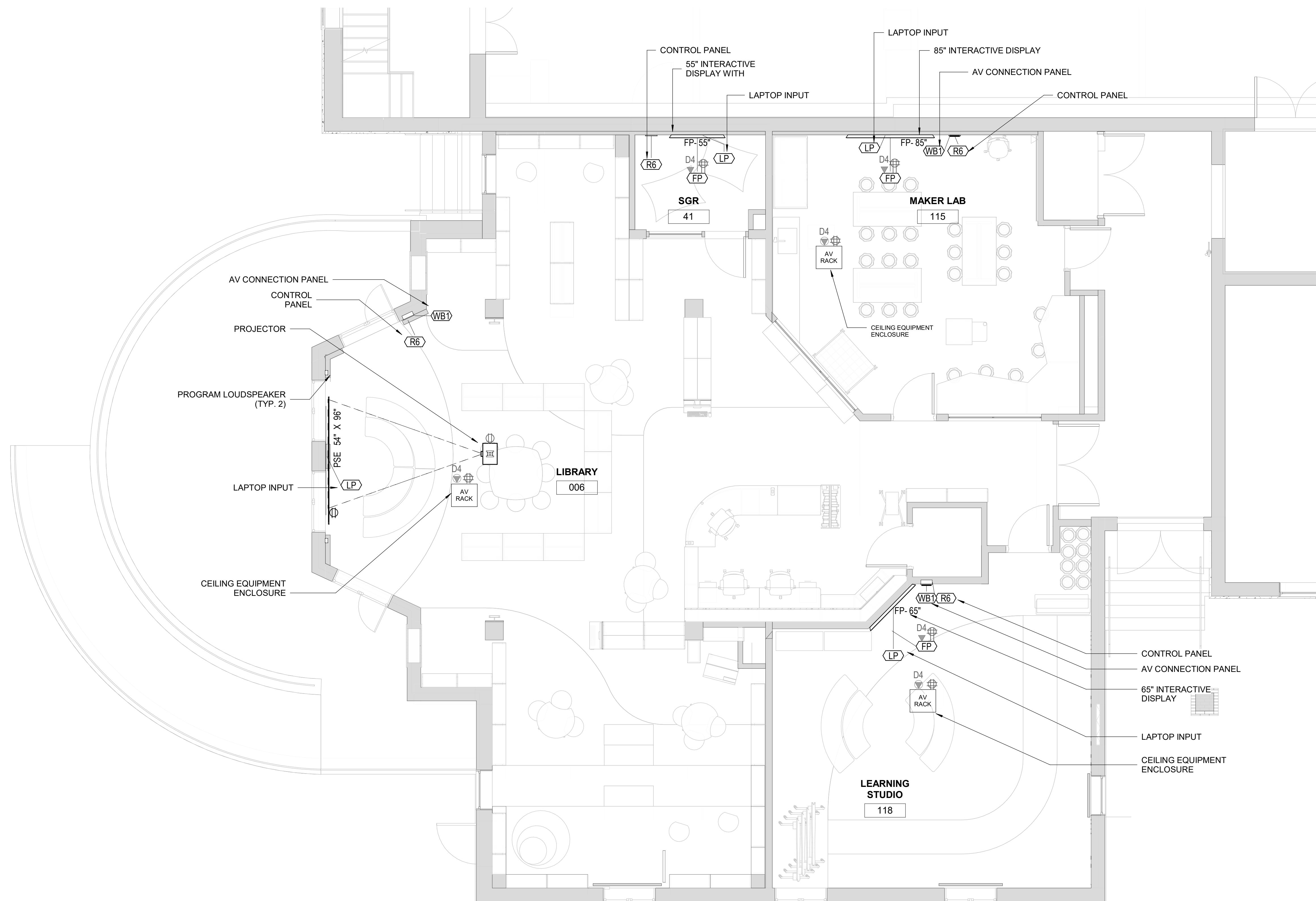
SEAL & SIGNATURE DATE: 2/11/2021

PROJECT No: 9200

DRAWING BJMM/MD

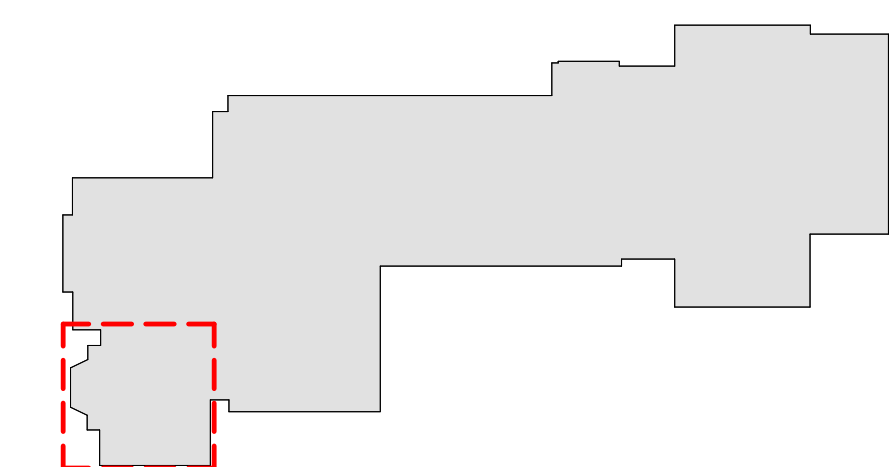
CHK BY: MJM

DWG No: AVE2-001



1 AUDIOVISUAL FIRST FLOOR PLAN - LIBRARY  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



MILTON KEY PLAN  
1" = 80'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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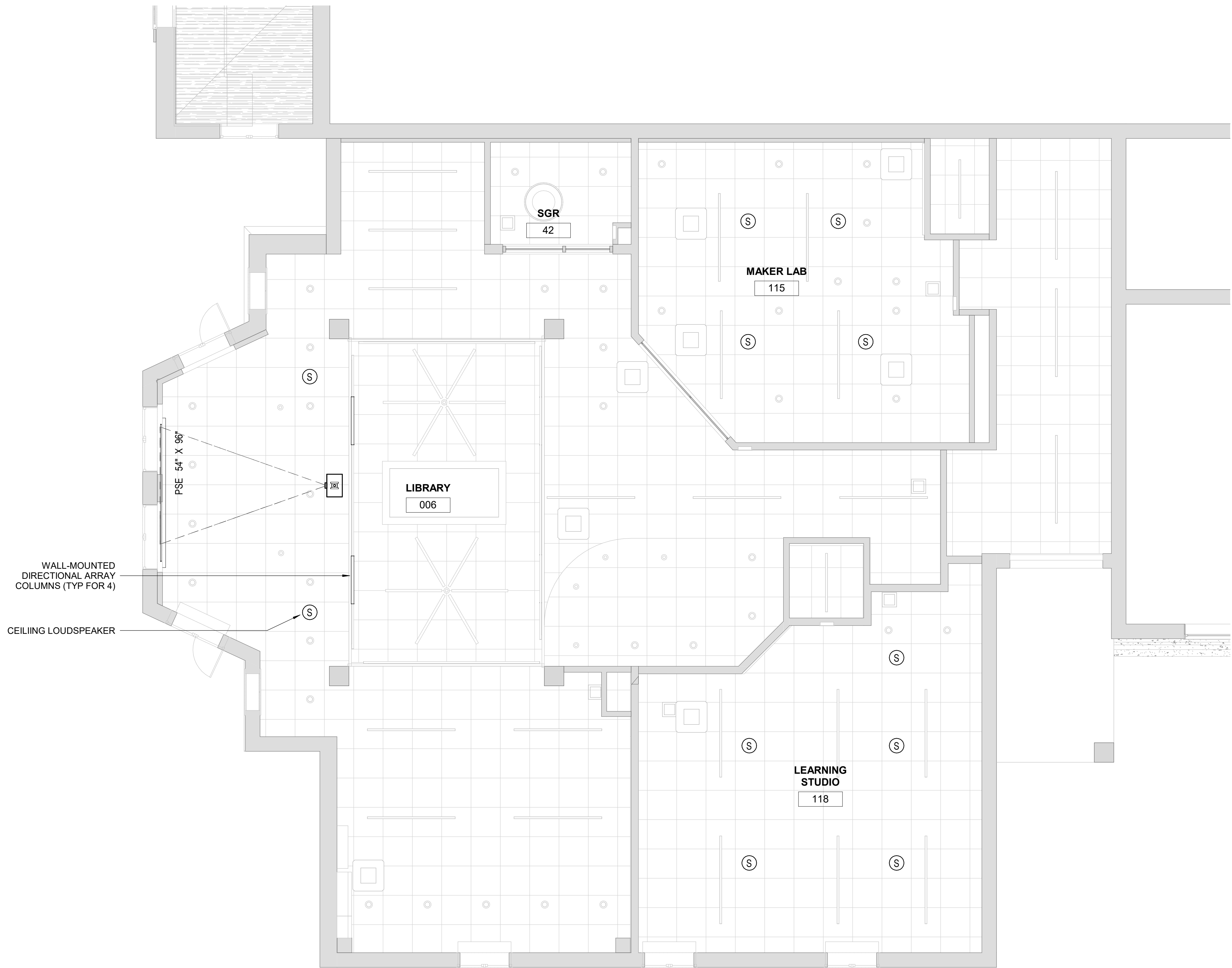
**SED#:** 6618-0001-0002-015

PROJECT  
**Rye City Schools**  
555 Theodore Fremd Ave, Suite B-101  
**Milton Elementary School**  
12 Hewlett St, Rye, NY 10580

**AUDIOVISUAL FLOOR PLAN - LIBRARY**

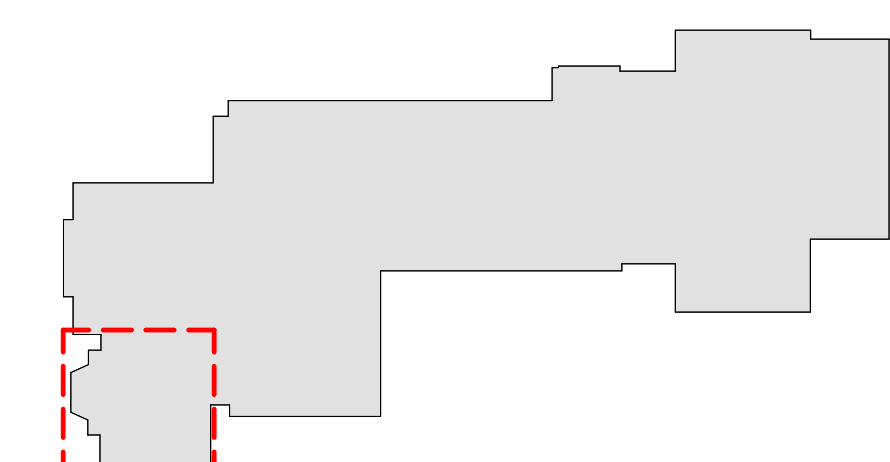
PROJECT 2

SEAL & SIGNATURE | DATE: 2/11/2021  
PROJECT No: 9200  
DRAWING BJMM/MDDB  
CHK BY: MJM  
DWG No: AVE2-101



1 AUDIOVISUAL FIRST FLOOR REFLECTED CEILING PLAN - LIBRARY  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



MILTON KEY PLAN  
1" = 80'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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SED#: 6618-0001-0002-015

PROJECT

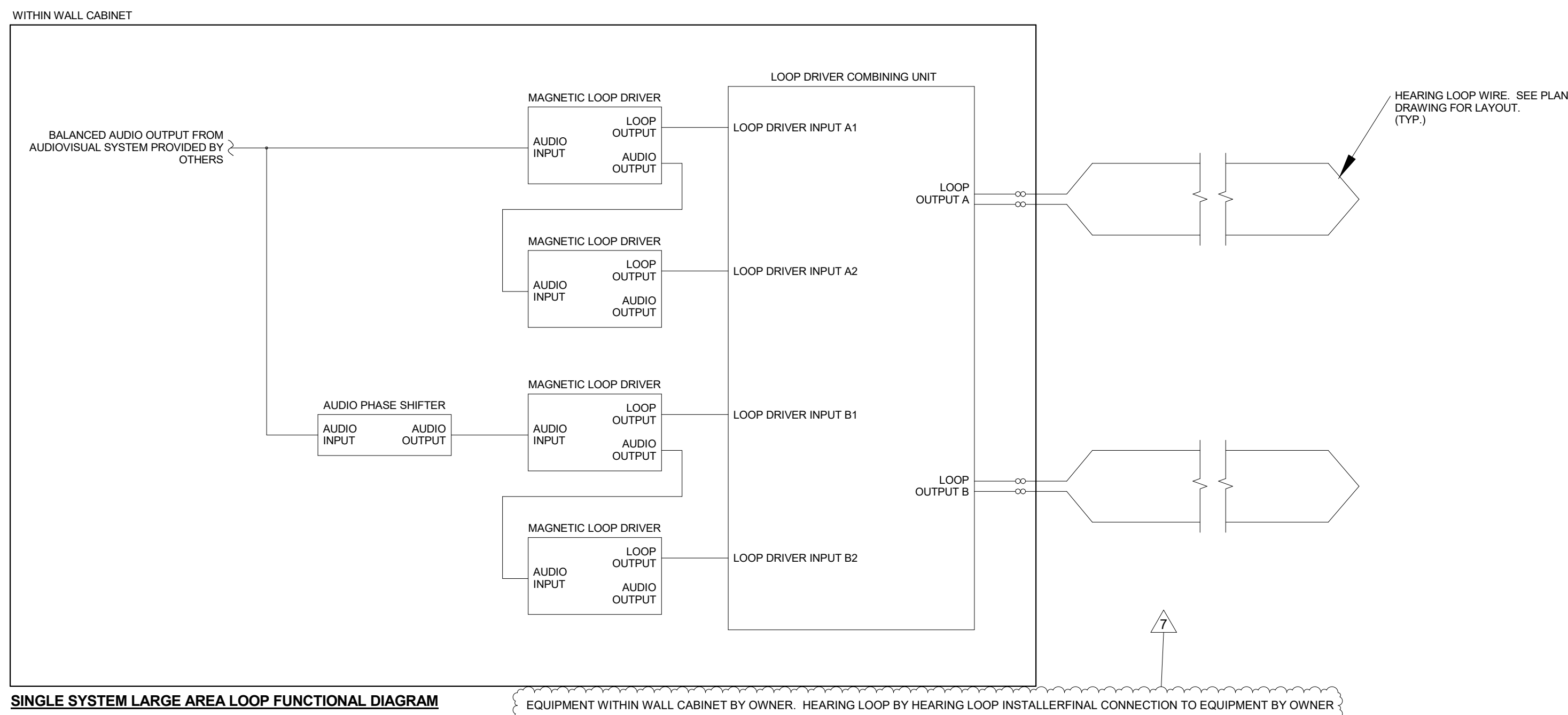
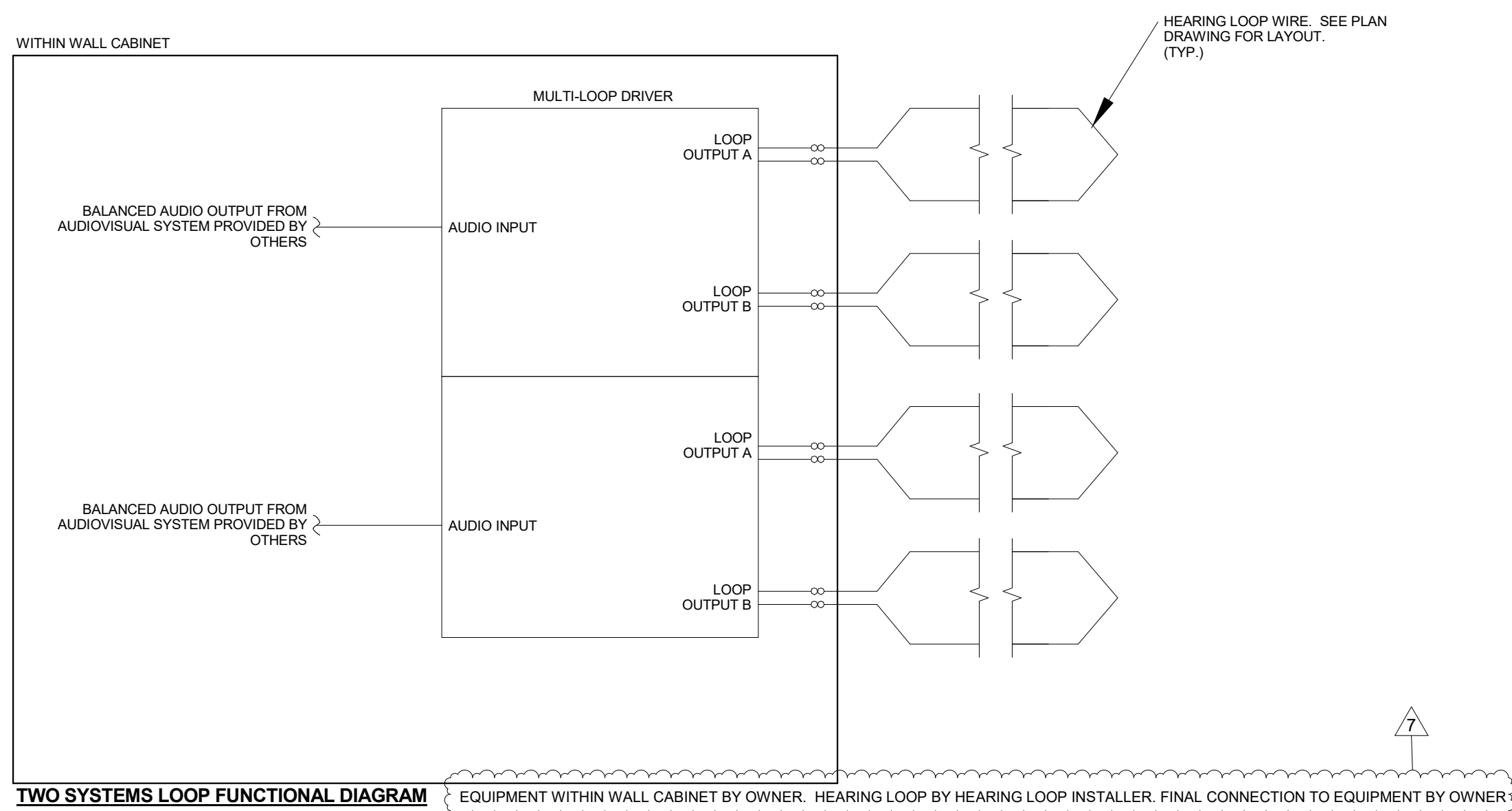
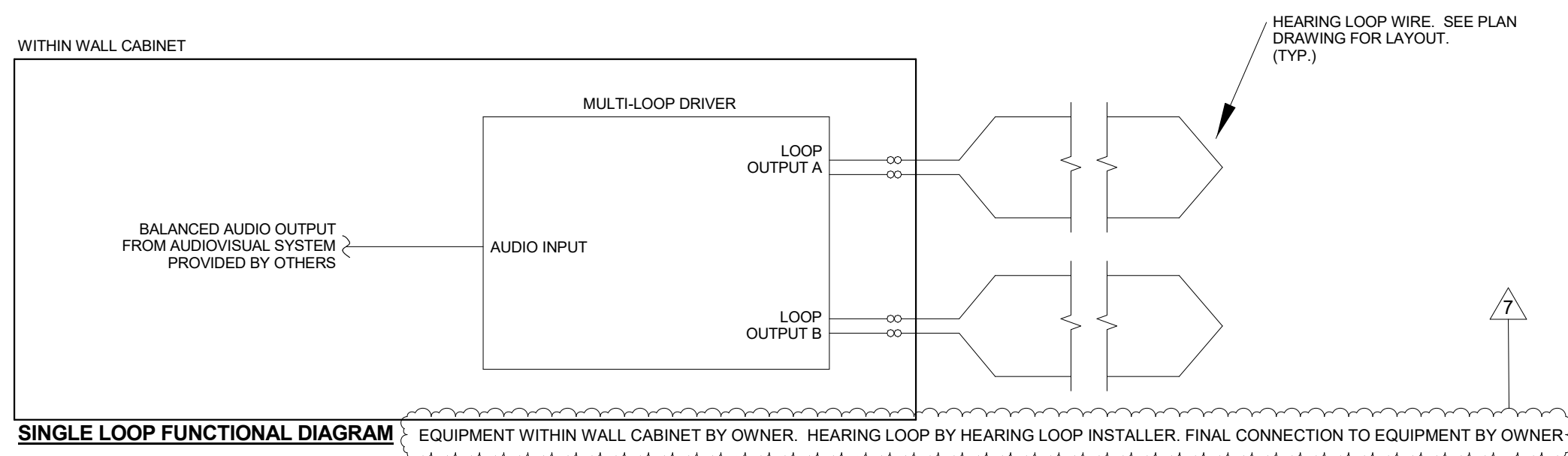
**Rye City Schools**  
555 Theodore Fremd Ave, Suite B-101

**Milton Elementary School**  
  
12 Hewlett St, Rye, NY 10580

AUDIOVISUAL RCP - LIBRARY

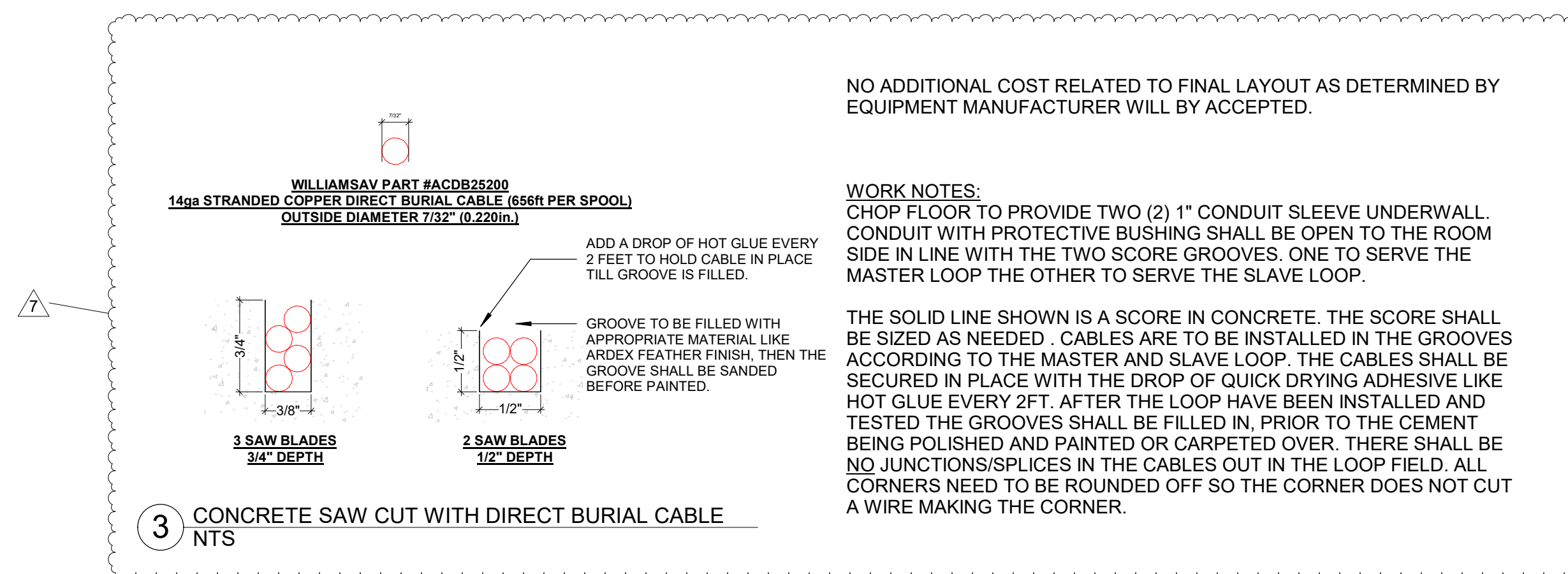
PROJECT 2

SEAL & SIGNATURE DATE: 2/11/2021  
PROJECT No: 9200  
DRAWING BJMM/MDDB  
CHK BY: MJM  
DWG No: AVE2-111



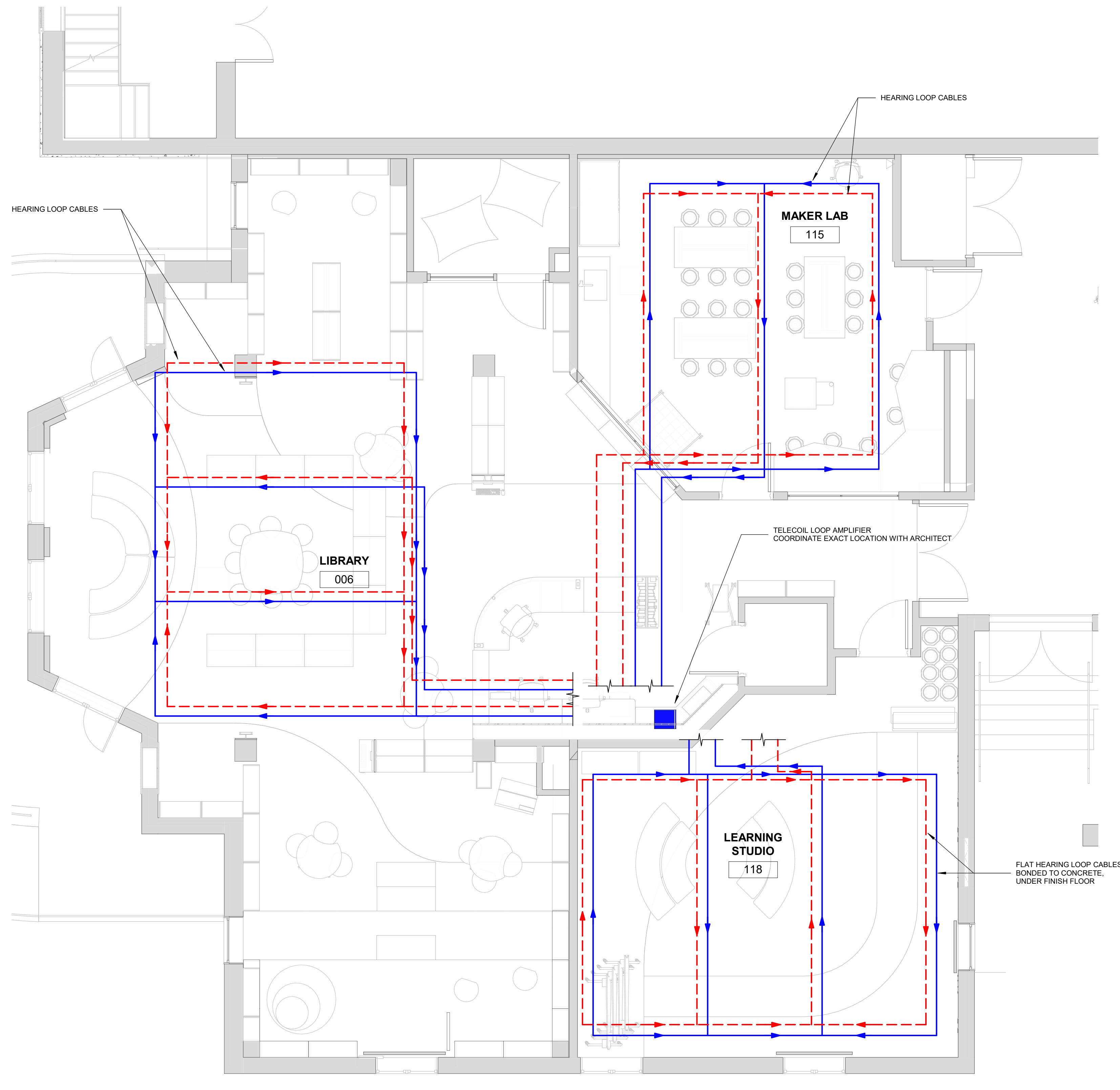
## 2 HEARING LOOP DIAGRAMS NTS

## 1 HEARING LOOP SYSTEM LOOP WIRE LAYOUTS - LIBRARY 1/4" = 1'-0"



## MILTON KEY PLAN

1" = 80'



### MAGNETIC HEARING LOOP WIRE INSTALLATION NOTES.

1. MAGNETIC HEARING LOOP SPACING, LAYOUT, AND ROUTING ARE CONCEPTUAL ONLY. ACTUAL SPACING, LAYOUT, AND ROUTING TO BE DETERMINED BY HEARING LOOP SYSTEM INSTALLER AND HEARING LOOP SYSTEM EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
2. COORDINATE MAGNETIC HEARING LOOP WIRE FLOOR INSTALLATION WITH FLOORING INSTALLATION.
3. NO ADDITIONAL COST RELATED TO FINAL LAYOUT AS DETERMINED BY EQUIPMENT MANUFACTURER WILL BE ACCEPTED.

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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SED#: 6618-0001-0002-015

PROJECT

Rye City Schools

555 Theodore Fremd Ave, Suite B-101

Milton Elementary School

12 Hewlett St, Rye, NY 10580

HEARING LOOP SYSTEM LOOP  
WIRE LAYOUTS AND  
DIAGRAMS - LIBRARY

PROJECT 2A

SEAL & SIGNATURE

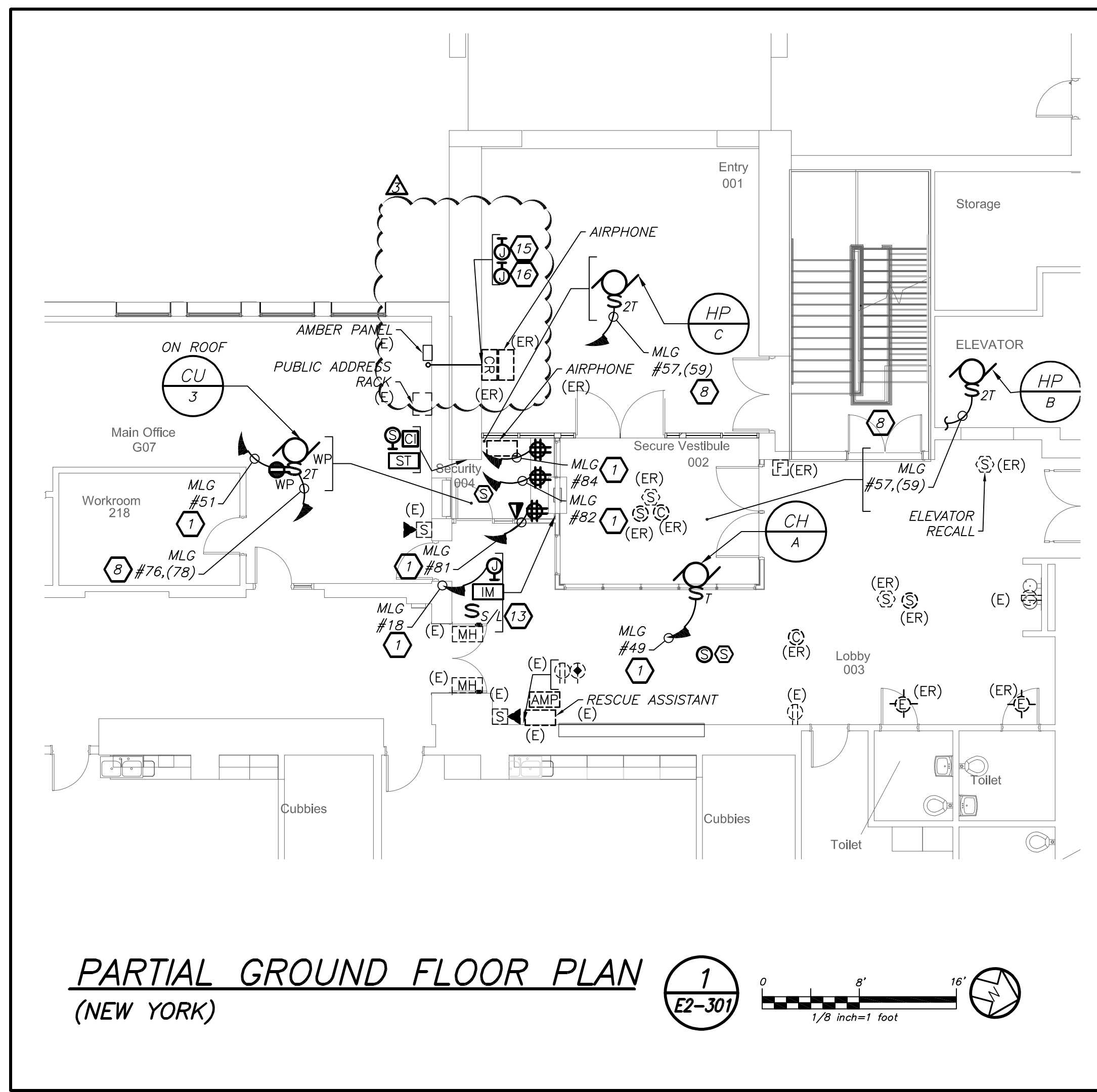
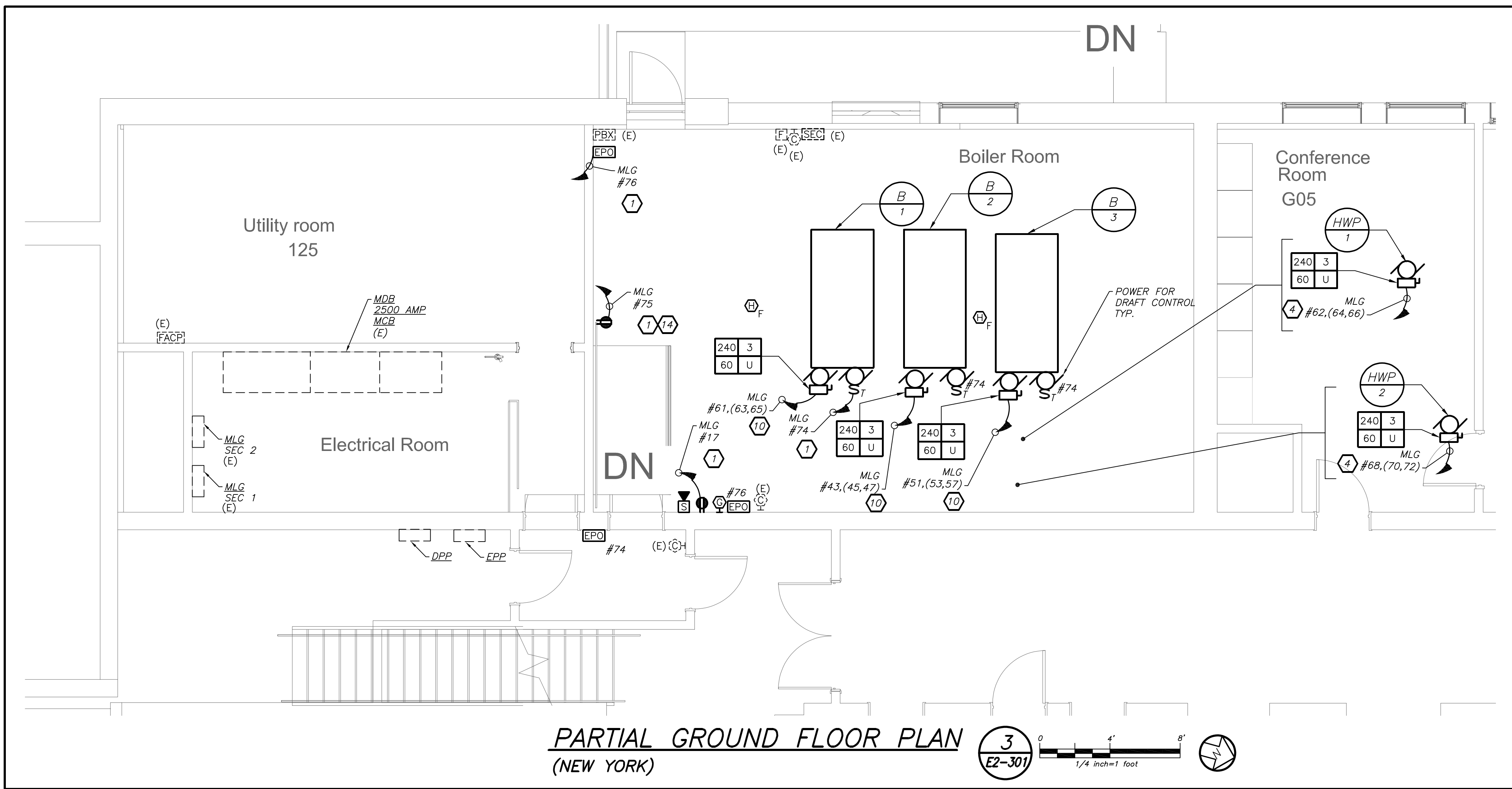
DATE: 2/11/2021

PROJECT No: 9200

DRAWING BJMM/MDDB

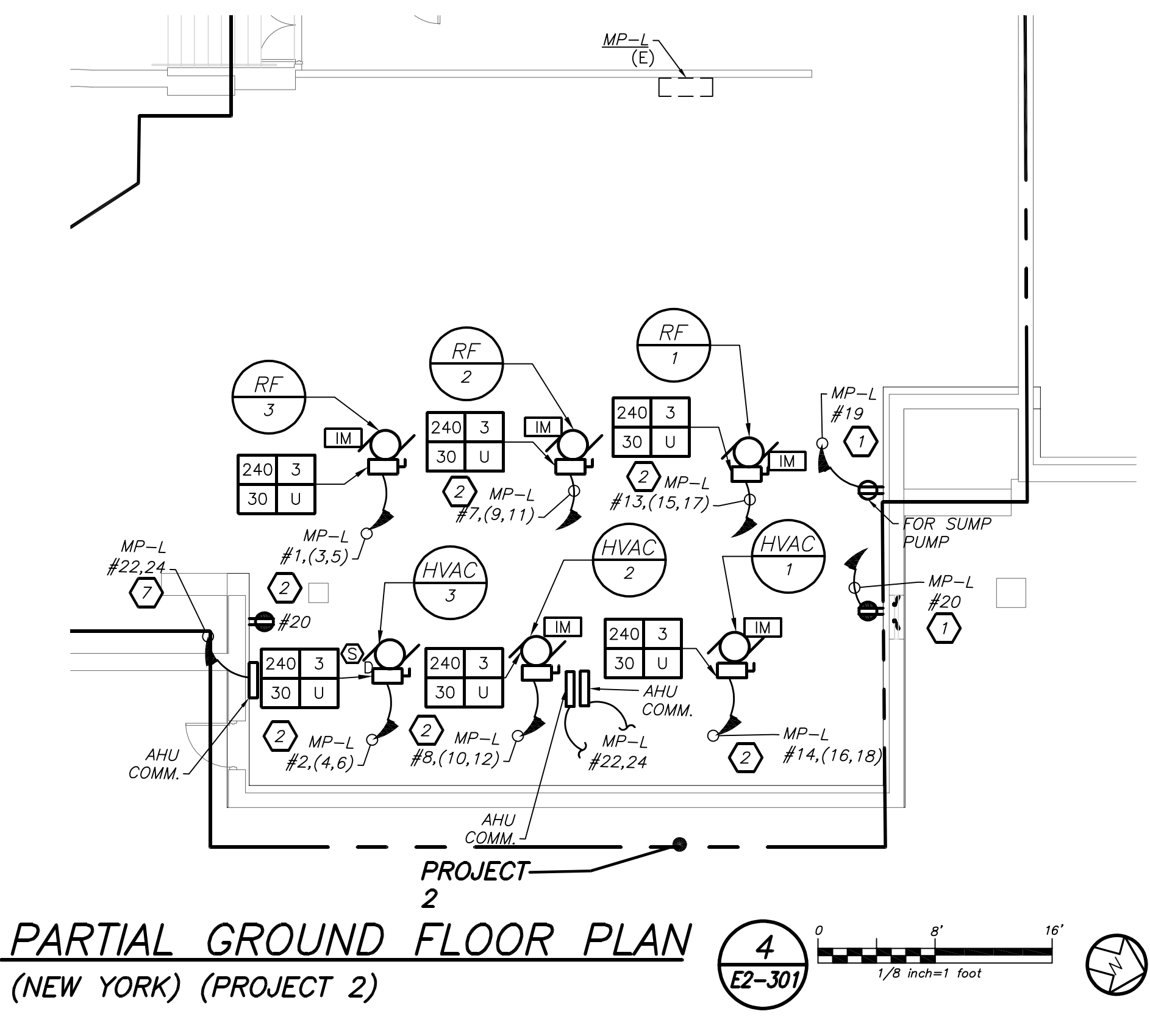
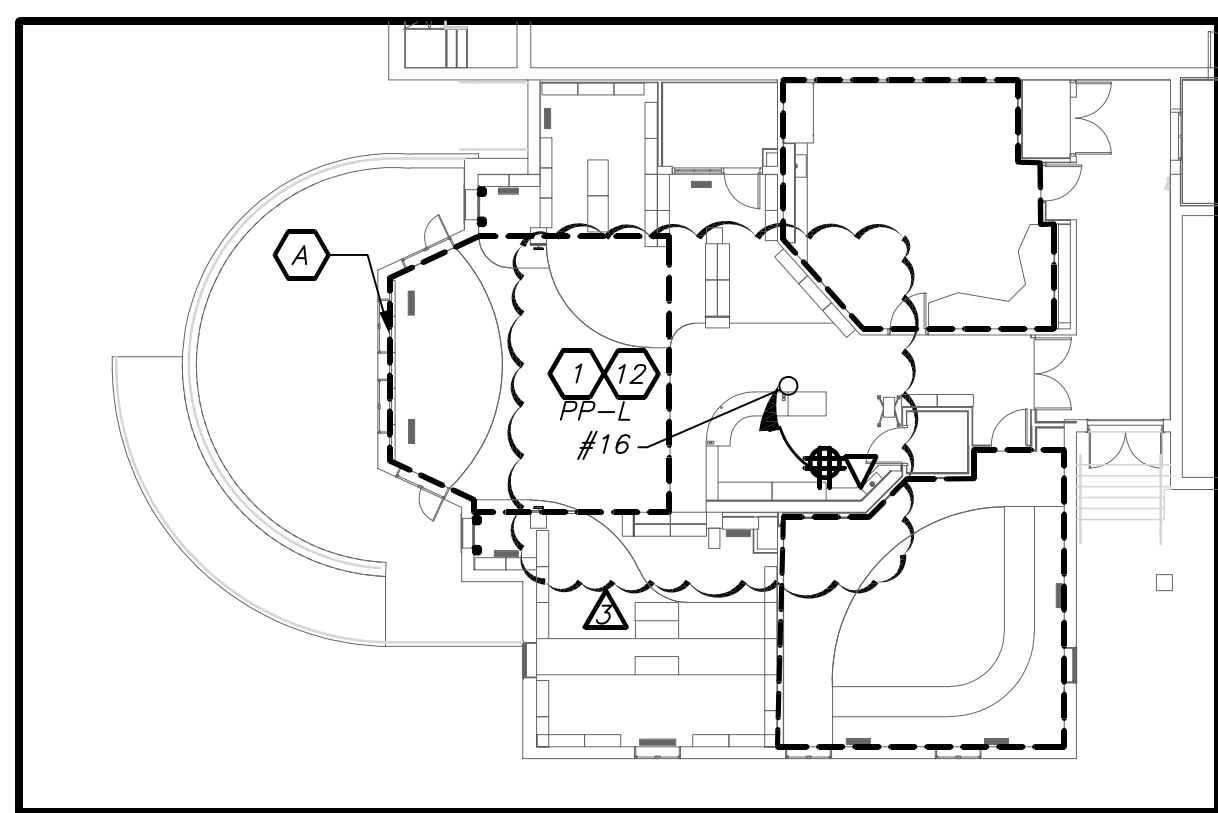
CHK BY: MJM

DWG No: AVE2-201



#### 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.

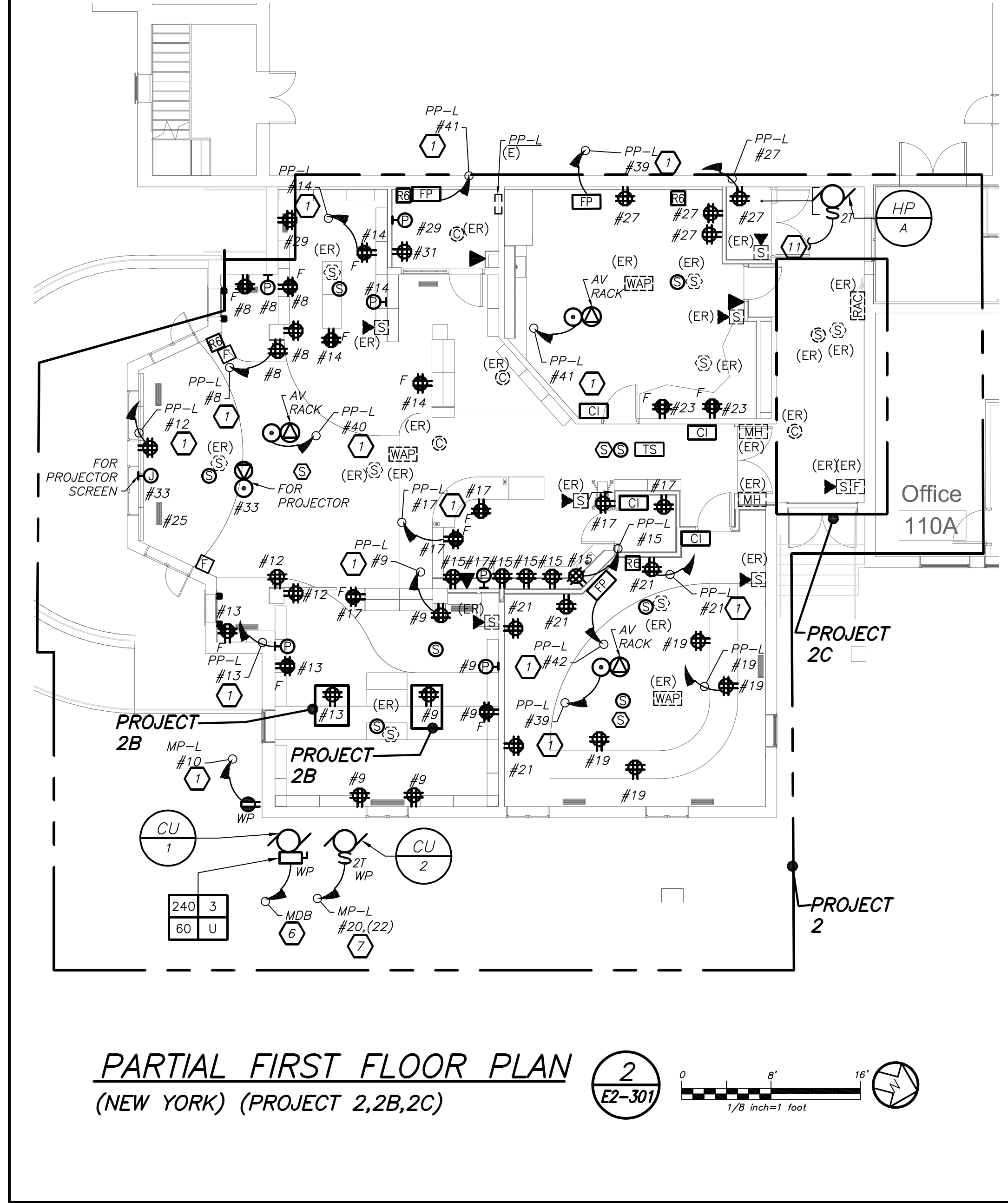


#### GENERAL NOTES:

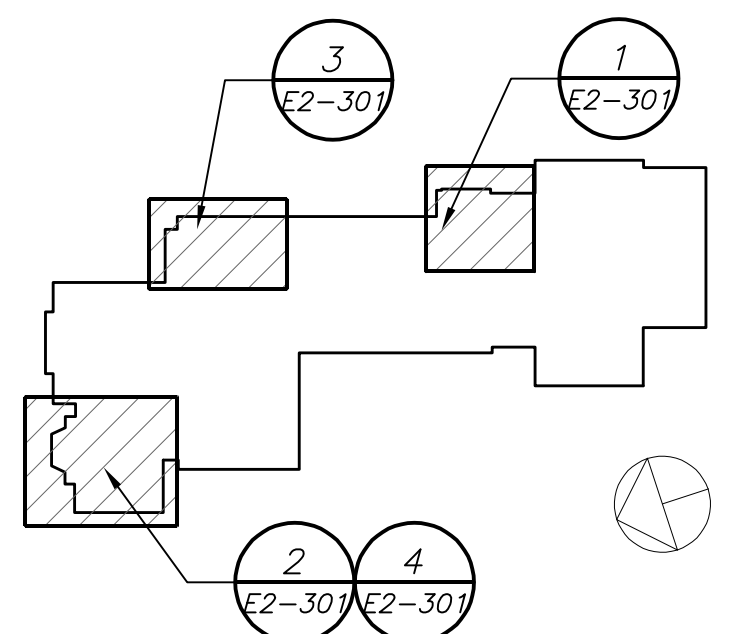
- COORDINATE ALL LIBRARY AV DEVICE LOCATIONS WITH AV CONTRACTOR BEFORE THE START OF ANY WORK.
- COORDINATE EXACT FINAL LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANYWORK. ELECTRICAL CONTRACTOR SHALL NOT START INSTALLATION UNTIL YOU THEY HAVE A SIGN 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#6+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
6	BID ADDENDUM #3	02/11/2021



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401-861-3218

SED#: 6618-0001-0002-015

PROJECT  
Rye City Schools  
555 Theodore Fremd Ave, Suite B-101  
Milton Elementary School  
12 Hewlett St. Rye, NY 10580

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

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

# Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

# Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

SED #: 66180001-0005-032

## UNIFORM SAFETY STANDARDS COMMISSIONER'S REGULATIONS 155.5

### 1. Statement:

"The occupied portion of any school building shall always comply with the minimum requirements necessary to maintain a certificate of occupancy."

2. Indication that all school areas to be disturbed during renovation or demolition have been or will be tested for lead and asbestos. Note, the project folder should contain a letter regarding the presence of asbestos.

### 3. Statement:

"General safety and security standards for construction projects.

- All construction materials shall be stored in a safe and secure manner.
- Fences around construction supplies or debris shall be maintained.
- Gates shall always be locked unless a worker is in attendance to prevent unauthorized entry.
- During exterior renovation work, overhead protection shall be provided for any sidewalks or areas immediately beneath the work site or such areas shall be fenced off and provided with warning signs to prevent entry.
- Workers shall be required to wear photo-identification badges at all times for identification and security purposes while working at occupied sites."

### 4. Statement:

"Separation of construction areas from occupied spaces. Construction areas which are under the control of a contractor and therefore not occupied by district staff or students shall be separated from occupied areas. Provisions shall be made to prevent the passage of dust and contaminants into occupied parts of the building. Periodic inspection and repairs of the containment barriers must be made to prevent exposure to dust or contaminants. Gypsum board must be used in exit ways or other areas that require fire rated separation. Heavy duty plastic sheeting may be used only for a vapor, fine dust or air infiltration barrier, and shall not be used to separate occupied spaces from construction areas.

- A specific stairwell and/or elevator should be assigned for construction worker use during work hours. In general, workers may not use corridors, stairs or elevators designated for students or school staff.
- Large amounts of debris must be removed by using enclosed chutes or a similar sealed system. There shall be no movement of debris through halls of occupied spaces of the building. No material shall be dropped or thrown outside the walls of the building.
- All occupied parts of the building affected by renovation activity shall be cleaned at the close of each workday. School buildings occupied during a construction project shall maintain required health, safety and educational capabilities at all times that classes are in session."
- A plan detailing how exiting required by the applicable building code will be maintained.
- A plan detailing how adequate ventilation will be maintained during construction.

### 5. Statement:

"Construction and maintenance operations shall not produce noise in excess of 60 dba in occupied spaces or shall be scheduled for times when the building or affected building spaces are not occupied or acoustical abatement measures shall be taken."

### 6. Statement:

"The contractor shall be responsible for the control of chemical fumes, gases, and other contaminants produced by welding, gasoline or diesel engines, roofing, paving, painting, etc. to ensure they do not enter occupied portions of the building or air intakes."

### 7. Statement:

"The contractor shall be responsible to ensure that activities and materials which result in "off-gassing" of volatile organic compounds such as glues, paints, furniture, carpeting, wall covering, drapery, etc. are scheduled, cured or ventilated in accordance with manufacturers recommendations before a space can be occupied."

### 8. Statement:

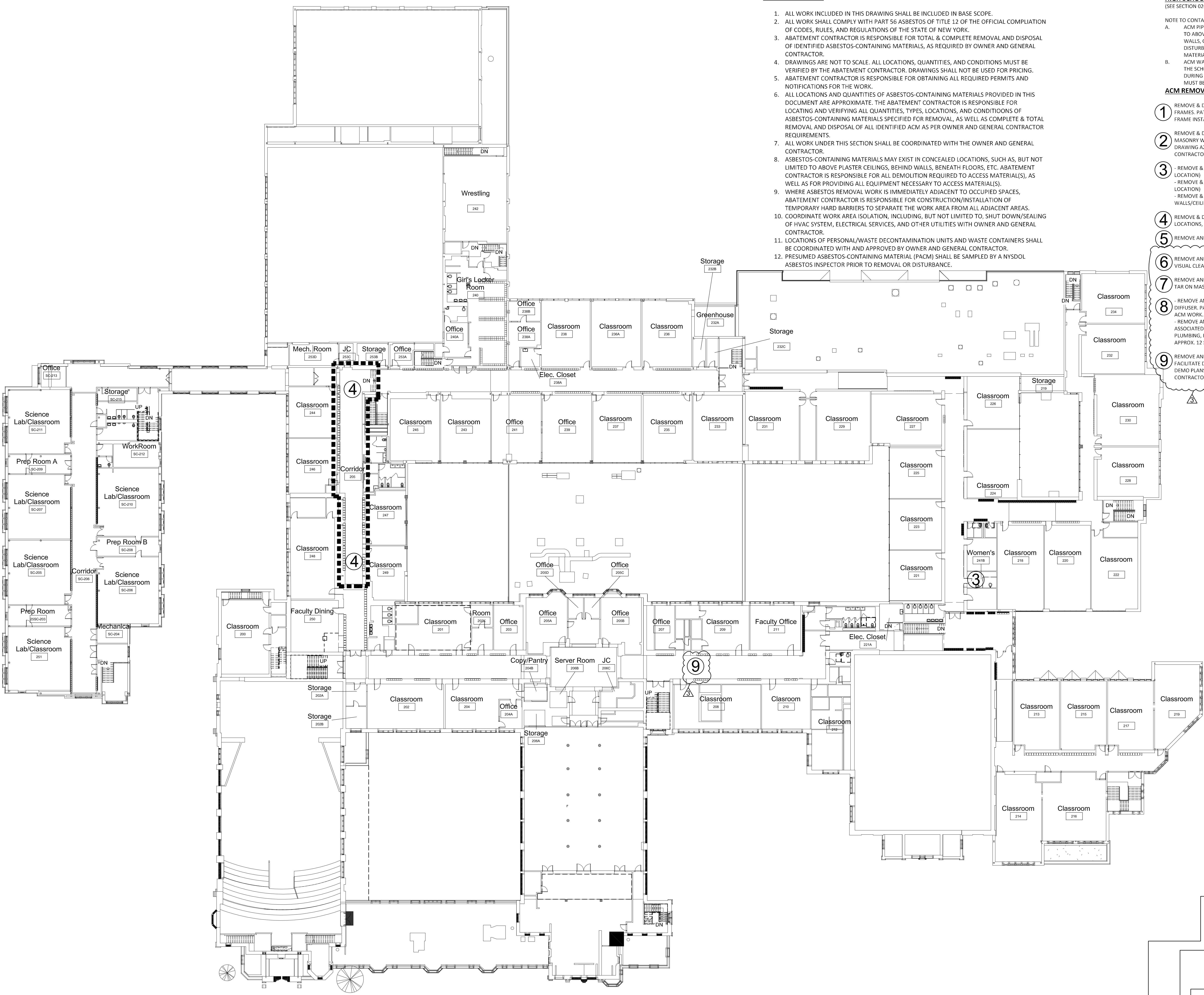
"Large and small asbestos abatement projects as defined by 12NYCRR55 shall not be performed while the building is occupied". Note, It is our interpretation that the term "building", as referenced in this section, means a wing or major section of a building that can be completely isolated from the rest of the building with sealed non combustible construction. The isolated portion of the building must contain exits that do not pass through the occupied portion and ventilation systems must be physically separated and sealed at the isolation barrier.

Exterior work such as roofing, flashing, siding, or soffit work may be performed on occupied buildings provided proper variances are in place as required, and complete isolation of ventilation systems and at windows is provided. Care must be taken to schedule work so that classes are not disrupted by noise or visual distraction."

9. Surfaces that will be disturbed by reconstruction must have a determination made as to the presence of lead. Projects which disturb surfaces that contain lead shall have in the specifications a plan prepared by a certified Lead Risk Assessor or Supervisor which details provisions for occupant protection, work site preparation, work methods, cleaning and clearance testing which are in general accordance with the HUD Guidelines.

## DRAWINGS INDEX

Number	Name	Current Revision	Description	Date	Number	Name	Current Revision	Description	Date
T2-001	TITLE SHEET - PHASE 2	7	BID ADDENDUM #3	02/11/2021	A2-602	DOOR TYPES	3	ISSUED FOR BID	01/19/2021
C2-001	EXISTING CONDITIONS AND DEMO	3	ISSUED FOR BID	01/19/2021	A2-603	WINDOW TYPES	5	BID ADDENDUM #2	02/05/2021
C2-002	SITE PLAN	3	ISSUED FOR BID	01/19/2021	A2-605	INTERIOR GLAZING SCHEDULE	3	ISSUED FOR BID	01/19/2021
C2-003	CONSTRUCTION DETAILS	3	ISSUED FOR BID	01/19/2021	A2-606	CURTAIN WALL AND ENTRANCE DOOR DETAILS	3	ISSUED FOR BID	01/19/2021
C2-004	CONSTRUCTION DETAILS	3	ISSUED FOR BID	01/19/2021	A2-700	FINISH SCHEDULE & LEGEND	3	ISSUED FOR BID	01/19/2021
C2-005	MIDDLE SCHOOL ENTRANCE SITEPLAN	3	ISSUED FOR BID	01/19/2021	A2-701	FIRST FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
C2-100	EXISTING SURVEY	3	ISSUED FOR BID	01/19/2021	A2-702	SECOND FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
CIP-001	CONSTRUCTION IMPLEMENTATION PLAN - GENERAL NOTES & MILESTONE SCHEDULES	3	ISSUED FOR BID	01/19/2021	A2-703	THIRD FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021
CIP-002	CONSTRUCTION IMPLEMENTATION PLAN - SITE PLAN & FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	A2-730	WALL GRAPHICS AND GLAZING TYPES	4	BID ADDENDUM #1	01/29/2021
CIP-003	CONSTRUCTION IMPLEMENTATION PLAN - SECOND FLOOR AND PARTIAL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	A2-800	CASEWORK - THIRD FLOOR - STUDENT LOCKERS	3	ISSUED FOR BID	01/19/2021
CIP-004	CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & ARCHITECTURE ROOF PLAN	3	ISSUED FOR BID	01/19/2021	A2-801	CASEWORK - THIRD FLOOR STUDENT LOCKERS TYPE B	3	ISSUED FOR BID	01/19/2021
CIP-005	CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & MECHANICAL ROOF PLAN	3	ISSUED FOR BID	01/19/2021	A2-900	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
CIP-006	CONSTRUCTION IMPLEMENTATION PLAN - BOILER PIPING & PARTIAL BASEMENT PLAN	3	ISSUED FOR BID	01/19/2021	A2-901	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
X2-101	FIRST FLOOR CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021	A2-902	FURNITURE SCHEDULE THIRD FLOOR	3	ISSUED FOR BID	01/19/2021
X2-102	SECOND FLOOR CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021	A2-903	FURNITURE SCHEDULE THIRD FLOOR	6	Casework ISSUED FOR BID	02/09/2021
X2-103	THIRD FLOOR CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021	A2-904	FURNITURE SCHEDULE MS ILAB	3	ISSUED FOR BID	01/19/2021
X2-120	THIRD FLOOR LEARNING COMMUNITY CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021	A2-905	FURNITURE SCHEDULE MS ILAB	3	ISSUED FOR BID	01/19/2021
X2-121	THIRD FLOOR LEARNING COMMUNITY CODE COMPLIANCE PLAN	3	ISSUED FOR BID	01/19/2021	A2-906	FURNITURE SCHEDULE HS LAB	6	Casework ISSUED FOR BID	02/09/2021
HSMS-ASB-101	FIRST FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021	A2-907	FURNITURE SCHEDULE HS ENTRY	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-102	SECOND FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021	A2-910	FIRST FLOOR SECOND FURNITURE PLAN	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-103	THIRD FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021	A2-911	SECOND FLOOR FURNITURE PLAN	3	ISSUED FOR BID	01/19/2021
HSMS-ASB-104	THIRD FLOOR ASBESTOS ABATEMENT	3	ISSUED FOR BID	01/19/2021	A2-912	THIRD FLOOR FURNITURE PLAN	3	ISSUED FOR BID	01/19/2021
D2-101	FIRST FLOOR DEMOLITION PLAN	3	BID ADDENDUM #2	02/05/2021	A2-920	FURNITURE FLOOR PLAN - THIRD FLOOR LEARNING COMMUNITY & HS ENTRANCE	6	Casework ISSUED FOR BID	02/09/2021
D2-102	SECOND FLOOR DEMOLITION PLAN	5	BID ADDENDUM #2	02/05/2021	A2-921	FURNITURE FLOOR PLAN - MS ILAB	6	Casework ISSUED FOR BID	02/09/2021
D2-103	THIRD FLOOR DEMOLITION PLAN	3	ISSUED FOR BID	01/19/2021	A2-922	FURNITURE DETAIL - MS ILAB - TALL CABINET STORAGE WITH MOBILE CARTS A	6	Casework ISSUED FOR BID	02/09/2021
D2-201	EXTERIOR DEMOLITION ELEVATIONS	3	ISSUED FOR BID	01/19/2021	A2-923	FURNITURE DETAIL - MS ILAB - TALL CABINET STORAGE	6	Casework ISSUED FOR BID	02/09/2021
D2-202	EXTERIOR DEMOLITION ELEVATIONS	3	ISSUED FOR BID	01/19/2021	A2-924	FURNITURE DETAIL - MS ILAB - TALL CABINET STORAGE	6	Casework ISSUED FOR BID	02/09/2021
D2-203	EXTERIOR DEMOLITION ELEVATIONS	5	BID ADDENDUM #2	02/05/2021	A2-925	FURNITURE DETAIL - THIRD FLOOR WALL - STORAGE CUBBIES	6	Casework ISSUED FOR BID	02/09/2021
A2-101	HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOR PLAN	5	BID ADDENDUM #2	02/05/2021	A2-926	FURNITURE DETAIL - THIRD FLOOR - OPEN BOOTH SEATING	6	Casework ISSUED FOR BID	02/09/2021
A2-102	HIGH SCHOOL & MIDDLE SCHOOL SECOND FLOOR PLAN	5	BID ADDENDUM #2	02/05/2021	A2-927	FURNITURE DETAIL - THIRD FLOOR STORAGE CABINET	6	Casework ISSUED FOR BID	02/09/2021
A2-103	HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN	5	BID ADDENDUM #2	02/05/2021	A2-928	FURNITURE DETAIL - CAVE SPACE	6	Casework ISSUED FOR BID	02/09/2021
A2-110	ROOF PLAN	3	ISSUED FOR BID	01/19/2021	A2-929	FURNITURE DETAIL - TEACHER LECTERN	6	Casework ISSUED FOR BID	02/09/2021
A2-111	PARTIAL ROOF PLAN	3	ISSUED FOR BID	01/19/2021	S2-000	GENERAL NOTES	3	ISSUED FOR BID	01/19/2021
A2-112	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021	S2-001	SCOPE OF WORK	3	ISSUED FOR BID	01/19/2021
A2-113	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021	S2-002	SCOPE OF WORK	3	ISSUED FOR BID	01/19/2021
A2-114	ROOF DETAILS	3	ISSUED FOR BID	01/19/2021	S2-003	SCOPE OF WORK	3	ISSUED FOR BID	01/19/2021
A2-115	ROOF DETAILS	3	BID ADDENDUM #2	02/05/2021	S2-100	OVERALL FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-201	EXTERIOR ELEVATIONS	5	BID ADDENDUM #2	02/05/2021	S2-101	OVERALL SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-202	EXTERIOR ELEVATIONS	5	BID ADDENDUM #2	02/05/2021	S2-102	OVERALL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-203	EXTERIOR ELEVATIONS	5	BID ADDENDUM #2	02/05/2021	S2-103	OVERALL ROOF PLAN	3	ISSUED FOR BID	01/19/2021
A2-300	WALL TYPES	3	ISSUED FOR BID	01/19/2021	S2-110	MIDDLE SCHOOL ENTRANCE PLANS	3	ISSUED FOR BID	01/19/2021
A2-301	MIDDLE SCHOOL ENTRANCE SECTIONS	3	ISSUED FOR BID	01/19/2021	S2-120	ELEVATOR FRAMING PLANS	3	ISSUED FOR BID	01/19/2021
A2-310	MIDDLE SCHOOL WALL SECTIONS & DETAILS	3	ISSUED FOR BID	01/19/2021	S2-130	HIGH SCHOOL ENTRANCE PLANS	3	ISSUED FOR BID	01/19/2021
A2-311	MIDDLE SCHOOL WALL SECTIONS	5	BID ADDENDUM #2	02/05/2021	S2-140	ROOF FRAMING REINFORCEMENT PLANS	3	ISSUED FOR BID	01/19/2021
A2-312	MIDDLE SCHOOL WALL SECTIONS	5	BID ADDENDUM #2	02/05/2021	S2-141	ROOF FRAMING REINFORCEMENT PLAN	3	ISSUED FOR BID	01/19/2021
A2-313	STOREFRONT SYSTEM DETAILS	5	BID ADDENDUM #2	02/05/2021	S2-200	TYPICAL FOUNDATION DETAILS	3	ISSUED FOR BID	01/19/2021
A2-314	STOREFRONT SYSTEM & COLUMN DETAILS	5	BID ADDENDUM #2	02/05/2021	S2-300	TYPICAL MASONRY DETAILS	3	ISSUED FOR BID	01/19/2021
A2-315	DETAILS AT CLERESTORY AND STAIR TOWER	5	BID ADDENDUM #2	02/05/2021	S2-301	MASONRY DETAILS	3	ISSUED FOR BID	01/19/2021
A2-320	THIRD FLOOR LEARNING COMMUNITY SECTION DETAILS	3	ISSUED FOR BID	01/19/2021	S2-400	TYPICAL STEEL DETAILS	3	ISSUED FOR BID	01/19/2021
A2-321	THIRD FLOOR LEARNING COMMUNITY AND HS ENTRY DETAILS	3	ISSUED FOR BID	01/19/2021	S2-401	TYPICAL STEEL DETAILS	3	ISSUED FOR BID	01/19/2021
A2-322	HIGH SCHOOL ENTRANCE DETAILS	3	ISSUED FOR BID	01/19/2021	H2-101	HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PART PLANS, LEGEND AND NOTES	3	ISSUED FOR BID	01/19/2021
A2-323	MIDDLE SCHOOL SECURITY OFFICE CASEWORK	3	ISSUED FOR BID	01/19/2021	H2-102	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-350	ELEVATOR DEMOLITION AND FLOOR PLANS	5	BID ADDENDUM #2	02/05/2021	H2-103	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-351	ELEVATOR SECTIONS	3	ISSUED FOR BID	01/19/2021	H2-104	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-352	ELEVATOR VESTIBULE REFLECTED CEILING PLAN & INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021	H2-105	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-400	CEILING FIXTURE AND MATERIAL LEGENDS	4	BID ADDENDUM #1	01/29/2021	H2-106	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-401	FIRST FLOOR REFLECTED CEILING PLAN	7	BID ADDENDUM #3	02/11/2021	H2-107	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-402	SECOND FLOOR REFLECTED CEILING PLAN	5	BID ADDENDUM #2	02/05/2021	H2-108	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-403	THIRD FLOOR REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021	H2-109	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-501	MIDDLE SCHOOL ENTRANCE DEMOLITION PLAN, FLOOR PLAN, REFLECTED CEILING PLAN & FLOOR FINISH PLAN	5	BID ADDENDUM #2	02/05/2021	H2-110	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-502	MIDDLE SCHOOL ENTRANCE INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021	H2-201	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-503	NEW STAFF OFFICES DEMOLITION PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	H2-202	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-504	NEW STAFF OFFICES REFLECTED CEILING PLAN AND FLOOR FINISH PLAN	3	ISSUED FOR BID	01/19/2021	H2-203	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-505	MIDDLE SCHOOL OFFICE SUITE DEMOLITION PLAN AND REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021	H2-204	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-506	ENLARGED FIRST FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	H2-205	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-507	ENLARGED SECOND FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	H2-206	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-508	LOUVER AND VENTILATION PLACEMENT ELEVATIONS	3	ISSUED FOR BID	01/19/2021	H2-207	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-511	HIGH SCHOOL ENTRANCE PLANS	4	BID ADDENDUM #1	01/29/2021	H2-208	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR AND ATTIC PLAN	3	ISSUED FOR BID	01/19/2021
A2-512	HIGH SCHOOL ENTRANCE PLANS	3	BID ADDENDUM #1	01/29/2021	H2-209	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-513	HIGH SCHOOL ENTRANCE ELEVATION	3	ISSUED FOR BID	01/19/2021	H2-210	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-515	THIRD FLOOR LEARNING COMMUNITY DEMO DRAWINGS	3	ISSUED FOR BID	01/19/2021	H2-211	HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-516	THIRD FLOOR LEARNING COMMUNITY FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	H2-212	HIGH SCHOOL & MIDDLE SCHOOL PART ROOF PLAN	3	ISSUED FOR BID	01/19/2021
A2-517	THIRD FLOOR LEARNING COMMUNITY POWER AND TECHNOLOGY PLAN	7	BID ADDENDUM #3	02/11/2021	H2-301	HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE	3	ISSUED FOR BID	01/19/2021
A2-517A	THIRD FLOOR LEARNING COMMUNITY POWER AND TECHNOLOGY PLAN - ALTERNATES	7	BID ADDENDUM #3	02/11/2021	H2-302	HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE	3	ISSUED FOR BID	01/19/2021
A2-519	THIRD FLOOR LEARNING COMMUNITY REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021	H2-401	HIGH SCHOOL & MIDDLE SCHOOL DETAILS	3	ISSUED FOR BID	01/19/2021
A2-519	THIRD FLOOR LEARNING COMMUNITY FINISH PLAN	3	ISSUED FOR BID	01/19/2021	H2-402	HIGH SCHOOL & MIDDLE SCHOOL DETAILS	3	ISSUED FOR BID	01/19/2021
A2-520	THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021	H2-403	HIGH SCHOOL & MIDDLE SCHOOL DETAILS	3	ISSUED FOR BID	01/19/2021
A2-521	THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021	P2-101	HIGH SCHOOL & MIDDLE SCHOOL LEGEND, SCHEDULE, NOTES, FIRST AND SECOND FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
A2-522	MS ILAB DEMO PLAN AND FLOOR PLAN	3	ISSUED FOR BID	01/19/2021	P2-201	HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT FLOOR PLAN, ROOF PLAN AND DETAILS	3	ISSUED FOR BID	01/19/2021
A2-523	MS ILAB POWER AND TECHNOLOGY PLAN	3	BID ADDENDUM #2	02/11/2021	P2-202	HIGH SCHOOL & MIDDLE SCHOOL FIRST, SECOND & THIRD FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
A2-523A	MS ILAB POWER AND TECHNOLOGY PLAN - ALTERNATE	7	BID ADDENDUM #3	02/11/2021	P2-203	HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOR PLAN	3	ISSUED FOR BID	01/19/2021
A2-524	MS ILAB REFLECTED CEILING PLAN	3	ISSUED FOR BID	01/19/2021	P2-204	HIGH SCHOOL & MIDDLE SCHOOL FIRST AND SECOND FLOOR PLANS	3	ISSUED FOR BID	01/19/2021
A2-525	MS ILAB FINISH PLANS	3	ISSUED FOR BID	01/19/2021	P2-301	LEGENDS ABBREVIATIONS AND NOTES	3	ISSUED FOR BID	01/19/2021
A2-526	MS ILAB INTERIOR ELEVATIONS	3	ISSUED FOR BID	01/19/2021	E2-101	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
A2-531	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021	E2-102	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
A2-532	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021	E2-103	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
A2-533	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021	E2-104	HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
A2-534	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021	E2-105	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
A2-535	ENLARGED TOILET PLANS, ELEVATIONS & FINISHES	3	ISSUED FOR BID	01/19/2021	E2-106	HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021
A2-601	DOOR SCHEDULE	3	ISSUED FOR BID	01/19/2021	E2-107	HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR REMOVAL PLAN	3	ISSUED FOR BID	01/19/2021



1 Second Floor Plan - Asbestos Abatement

SCALE: 1" = 20'-0"

GENERAL NOTES:

1. ALL WORK INCLUDED IN THIS DRAWING SHALL BE INCLUDED IN BASE SCOPE.
2. ALL WORK SHALL COMPLY WITH PART 56 ASBESTOS OF TITLE 12 OF THE OFFICIAL COMPILIATION OF CODES, RULES, AND REGULATIONS OF THE STATE OF NEW YORK.
3. ABATEMENT CONTRACTOR FOR TOTAL & COMPLETE REMOVAL AND DISPOSAL OF IDENTIFIED ASBESTOS-CONTAINING MATERIALS, AS REQUIRED BY OWNER AND GENERAL CONTRACTOR.
4. DRAWINGS ARE NOT TO SCALE. ALL LOCATIONS, QUANTITIES, AND CONDITIONS MUST BE VERIFIED BY THE ABATEMENT CONTRACTOR. DRAWINGS SHALL NOT BE USED FOR PRICING.
5. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND NOTIFICATIONS FOR THE WORK.
6. ALL LOCATIONS AND QUANTITIES OF ASBESTOS-CONTAINING MATERIALS PROVIDED IN THIS DOCUMENT ARE APPROXIMATE. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL QUANTITIES, TYPES, LOCATIONS, AND CONDITIONS OF ASBESTOS-CONTAINING MATERIALS SPECIFIED FOR REMOVAL, AS WELL AS COMPLETE & TOTAL REMOVAL AND DISPOSAL OF ALL IDENTIFIED ACM AS PER OWNER AND GENERAL CONTRACTOR REQUIREMENTS.
7. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH THE OWNER AND GENERAL CONTRACTOR.
8. ASBESTOS-CONTAINING MATERIALS MAY EXIST IN CONCEALED LOCATIONS, SUCH AS, BUT NOT LIMITED TO ABOVE PLASTER CEILINGS, BEHIND WALLS, BENEATH FLOORS, ETC. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS MATERIAL(S), AS WELL AS FOR PROVIDING ALL EQUIPMENT NECESSARY TO ACCESS MATERIAL(S).
9. WHERE ASBESTOS REMOVAL WORK IS IMMEDIATELY ADJACENT TO OCCUPIED SPACES, ABATEMENT CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION/INSTALLATION OF TEMPORARY HARD BARRIERS TO SEPARATE THE WORK AREA FROM ALL ADJACENT AREAS.
10. COORDINATE WORK AREA ISOLATION, INCLUDING, BUT NOT LIMITED TO, SHUT DOWN/SEALING OF HVAC SYSTEM, ELECTRICAL SERVICES, AND OTHER UTILITIES WITH OWNER AND GENERAL CONTRACTOR.
11. LOCATIONS OF PERSONAL/WASTE DECONTAMINATION UNITS AND WASTE CONTAINERS SHALL BE COORDINATED WITH AND APPROVED BY OWNER AND GENERAL CONTRACTOR.
12. PRESUMED ASBESTOS-CONTAINING MATERIAL (PACM) SHALL BE SAMPLED BY A NYSDOL ASBESTOS INSPECTOR PRIOR TO REMOVAL OR DISTURBANCE.

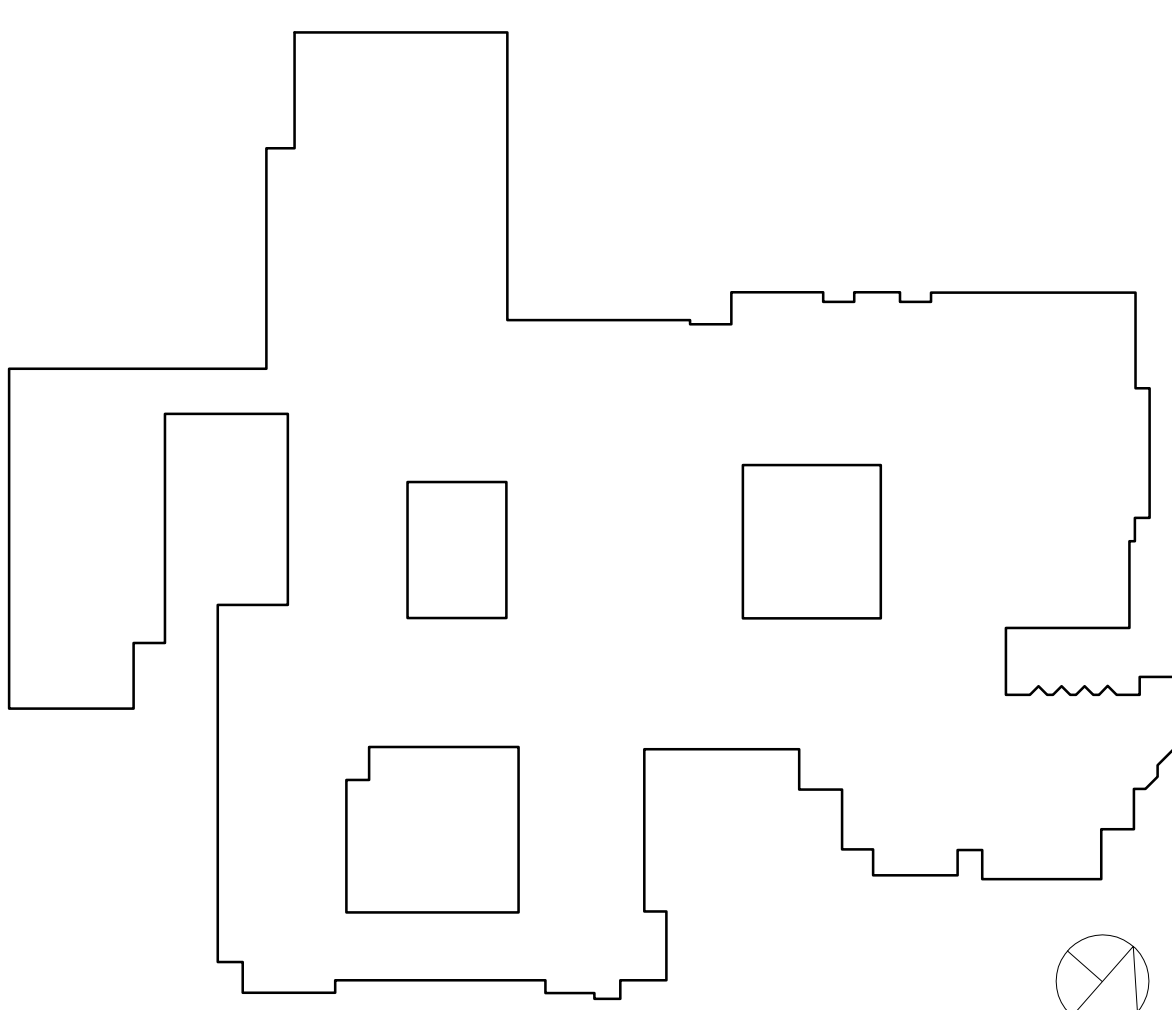
HIGH SCHOOL/MIDDLE SCHOOL ACM NOTES:  
(SEE SECTION 020800 FOR DETAILS & QUANTITIES)

NOTE TO CONTRACTORS:

- A. ACM PIPE INSULATION/FITTINGS EXISTS IN CONCEALED LOCATIONS, SUCH AS BUT NOT LIMITED TO ABOVE PLASTER/SHEETROCK CEILINGS, BEHIND PLASTER/SHEETROCK WALLS, WITHIN WET WALLS, CHASES, SOFFITS, AND PLENUMS. SHOULD THESE MATERIALS BE UNCOVERED AND DISTURBED DURING DEMOLITION, ALL WORK IN THE AREA MUST STOP AND THE UNCOVERED MATERIAL(S) MUST BE ABATED BEFORE WORK RESUMES IN THE SPACE(S).
- B. ACM WATERPROOFING TAR EXISTS ON PERIMETER MASONRY WITHIN THE ORIGINAL BUILD OF THE SCHOOL ON ALL FLOORS. SHOULD THIS MATERIAL BE UNCOVERED AND DISTURBED DURING DEMOLITION, ALL WORK IN THE AREA MUST STOP AND THE UNCOVERED MATERIAL(S) MUST BE ABATED BEFORE WORK RESUMES IN THE SPACE(S).

ACM REMOVAL LEGEND:

- 1 REMOVE & DISPOSE OF DOOR FRAMES AND 1' 0" ACM PLASTER SURROUNDING REMOVED FRAMES. PATCH OR REINSTALL MASONRY IN REMOVAL LOCATIONS TO FACILITATE NEW DOOR FRAME INSTALLATION (3 DOORS, APPROX 25 SF PLASTER REMOVAL PER LOCATION).
- 2 REMOVE & DISPOSE OF PLASTER WALL, WITH METAL LATHE, AND ALL WATERPROOFING TAR ON MASONRY WALL BEHIND THE PLASTER/LATHE IN ACCORDANCE WITH DEMOLITION DETAILS ON DRAWING A2-511. COORDINATE REMOVAL LOCATION(S) WITH OWNER AND GENERAL CONTRACTOR (APPROX. 50 SF).
- 3 REMOVE & DISPOSE OF RADIATOR/HEATER AND ASSOCIATED INSULATION (APPROX. 12 SF PER LOCATION)  
- REMOVE & DISPOSE OF MIRROR(S) AND ASSOCIATED MASTIC/GLUE/ADHESIVE (APPROX. 12 SF PER LOCATION)  
- REMOVE & DISPOSE OF ALL PIPE INSULATION/FITTINGS CONCEALED WITHIN PLASTER/CMU WALLS/CEILINGS/SOFFITS/CHASES/ETC. (APPROX. 40 LF PER LOCATION)
- 4 REMOVE & DISPOSE OF ACM FLOORING TO THE SUBSTRATE. REFER TO SECTION 020800 FOR LOCATIONS, QUANTITIES, AND LAYERING SYSTEMS.
- 5 REMOVE AND DISPOSE OF ACM FLASHING TAR (PERIMETER AND EQUIPMENT).
- 6 REMOVE AND DISPOSE OF ACM WINDOW CAULK. RECAULK ALL REMOVAL LOCATIONS FOLLOWING VISUAL CLEARANCE BY THIRD-PARTY MONITOR.
- 7 REMOVE AND DISPOSE OF RADIATORS, ASSOCIATED INSULATION BACKING, AND WATERPROOFING TAR ON MASONRY BEHIND REMOVED RADIATORS. (3 UNITS, APPROX. 12 SF EACH)
- 8 REMOVE AND DISPOSE OF DIFFUSERS AND 1' 0" ACM PLASTER SURROUNDING REMOVED DIFFUSER. PATCH AS NECESSARY TO ENSURE REPLACEMENT OR ADDITIONAL PATCHWORK IS NON ACM WORK. (2 LOCATIONS, APPROX 4 SF EACH)  
- REMOVE AND DISPOSE OF PLASTER AND SHEETROCK WALLS TO EXPOSE ALL PLUMBING ASSOCIATED WITH TOILET REMOVALS PATCH AS NECESSARY TO ENSURE ALL SUBSEQUENT PLUMBING, PATCHWORK, AND TOILET REINSTALLATION IS NON-ACM WORK. (2 LOCATIONS, APPROX. 12 SF EACH)
- 9 REMOVE AND DISPOSE OF CEILING TILES WITH ACM GLUE DABS ON NON-ACM PLASTER CEILING TO FACILITATE DEMOLITION AND CONDUIT ROUTING. REFER TO DRAWINGS D2-102 AND E2-311 FOR DEMO PLANS. COORDINATE ALL REMOVALS WITH GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR. (APPROX. 100 SF)



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

Revision Schedule		
No.	Description	Date
1	ISSUED FOR SED SUBMISSION	09/15/2020
2	BID ISSUE	01/19/2021
3	ADDENDUM #3	02/11/2021

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845-298-6251

SED #: 66180001-0005-032

PROJECT

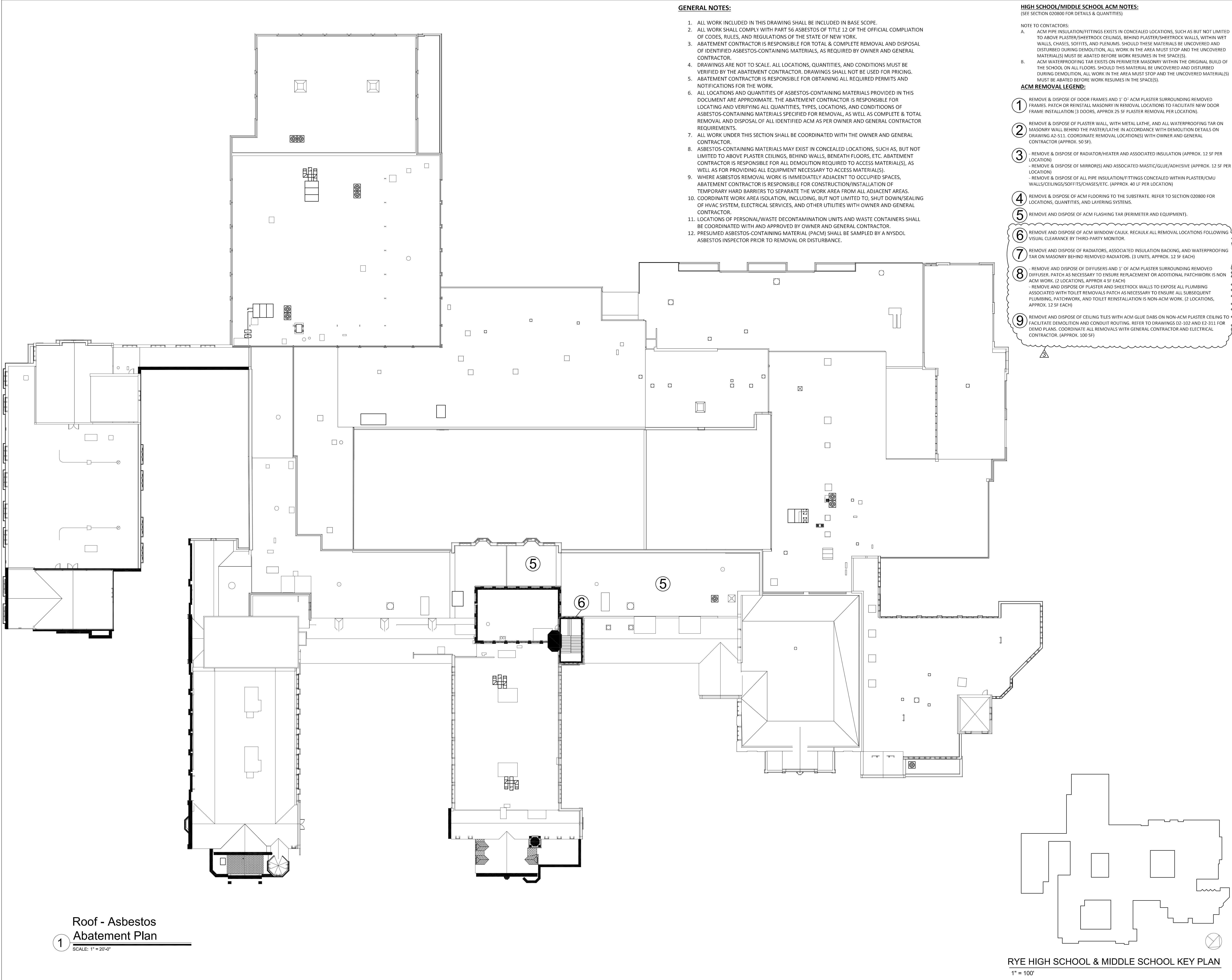
Rye City School District  
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School  
1 Parsons Street, Rye, New York 10580

SECOND FLOOR ASBESTOS ABATEMENT

SEAL & SIGNATURE

DATE: 01/19/2021  
PROJECT No: 9200  
DRAWING BY: JP  
CHK BY: AP  
DWG No: HSMS-ASB-102



Revision Schedule		
No.	Description	Date
1	ISSUED FOR SED SUBMISSION	09/15/2020
2	BID ISSUE	01/19/2021
3	ADDENDUM #3	02/11/2021

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Southport, CT 06890  
860-256-8251

SED #: 66180001-0005-032

PROJECT

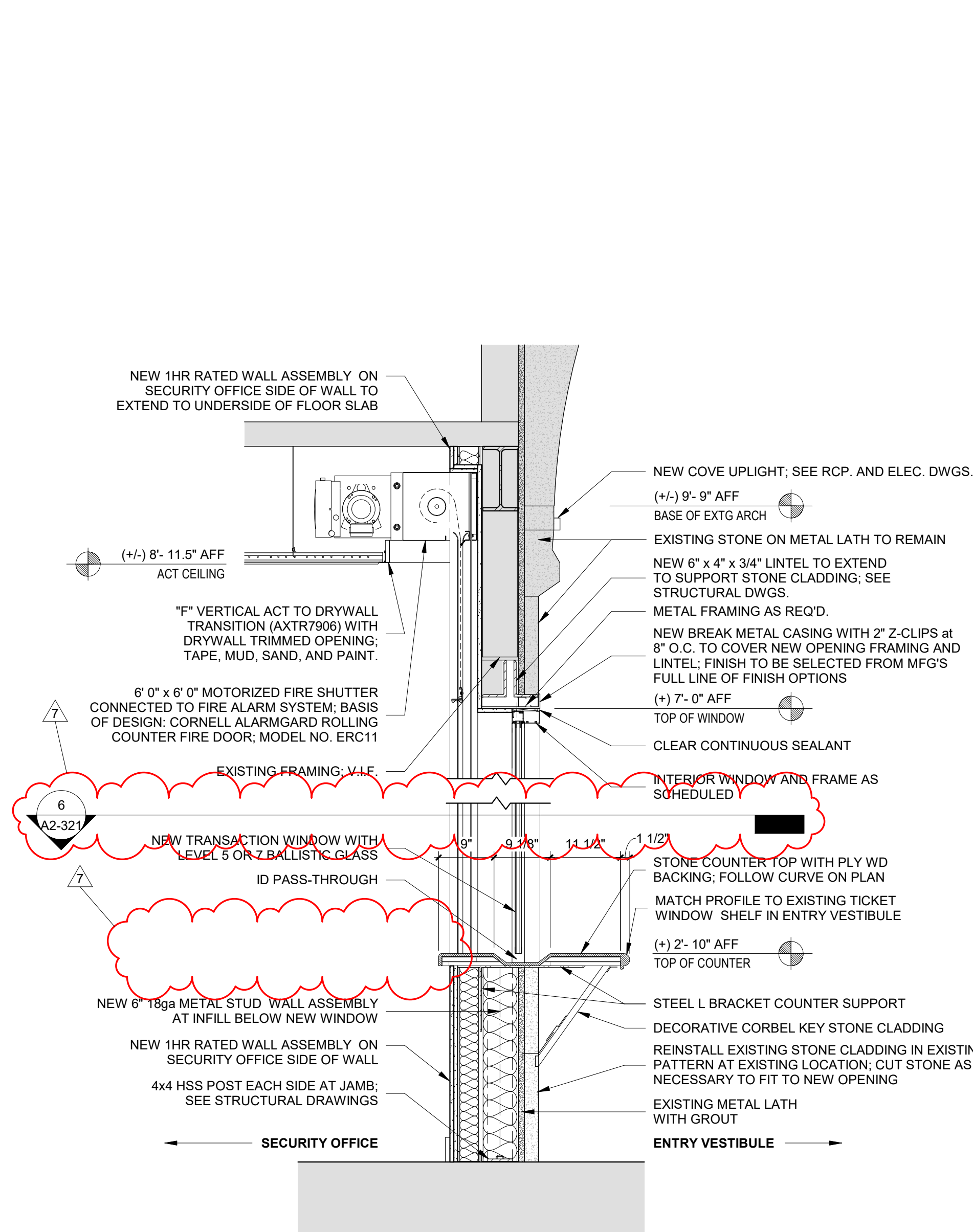
**Rye City School District**  
555 Theodore Fremd Ave, Rye, NY 10580

**Rye High School & Middle School**  
1 Parsons Street, Rye, New York 10580

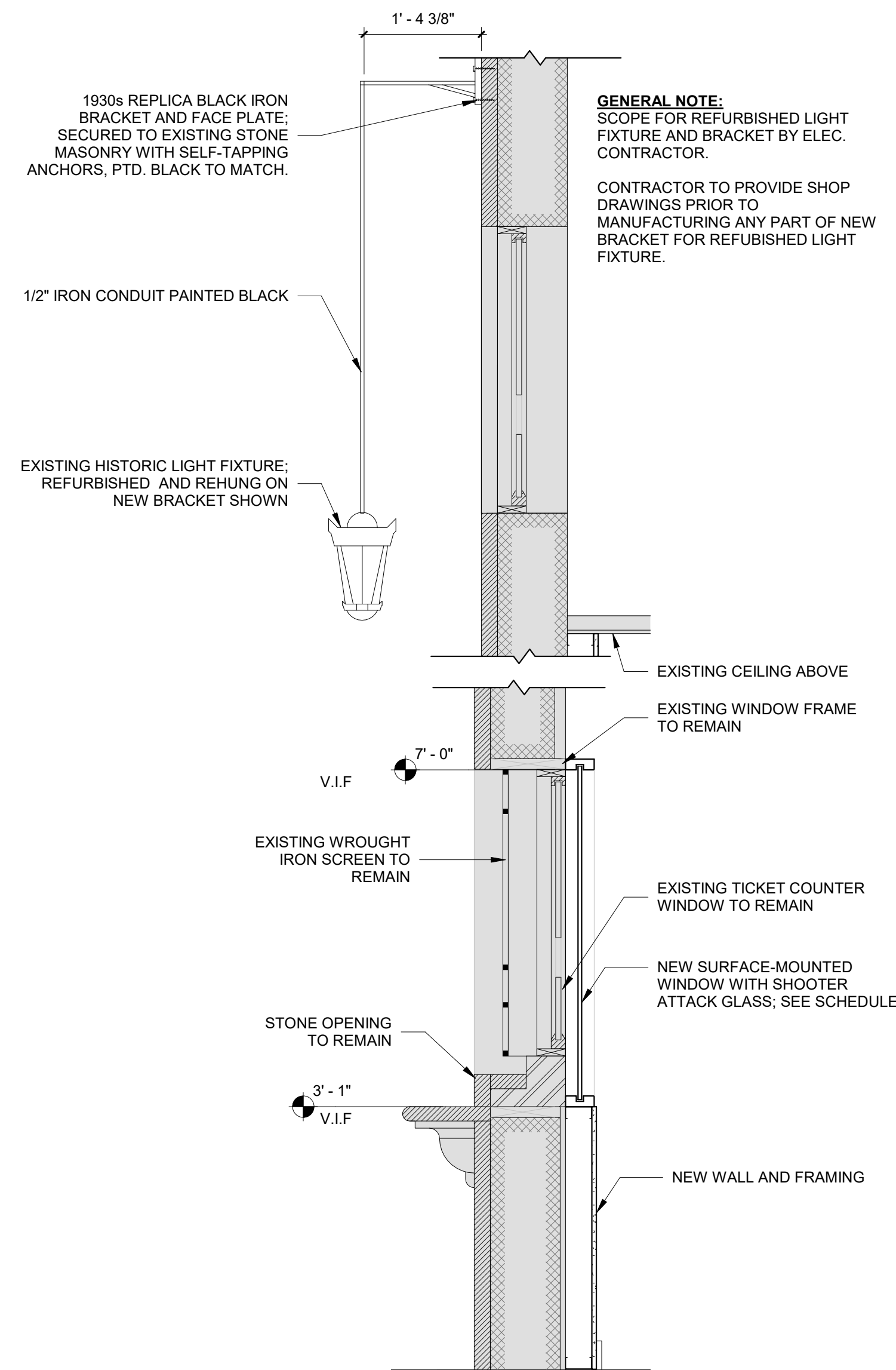
**ROOF ASBESTOS ABATEMENT**

SEAL & SIGNATURE

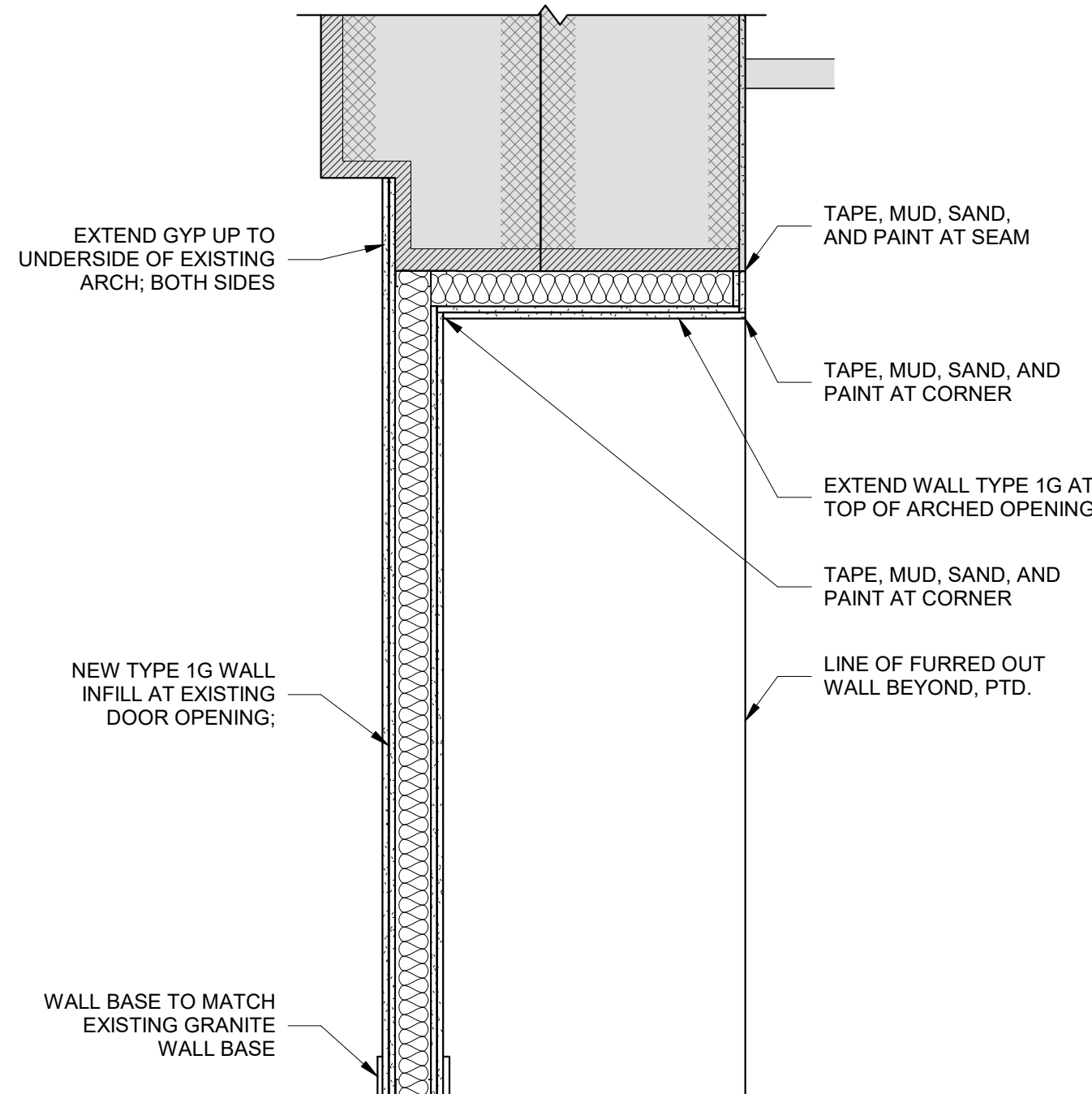
DATE: 01/19/2021  
PROJECT No: 9200  
DRAWING BY: JP  
CHK BY: AP  
DWG No: HSMS-ASB-104



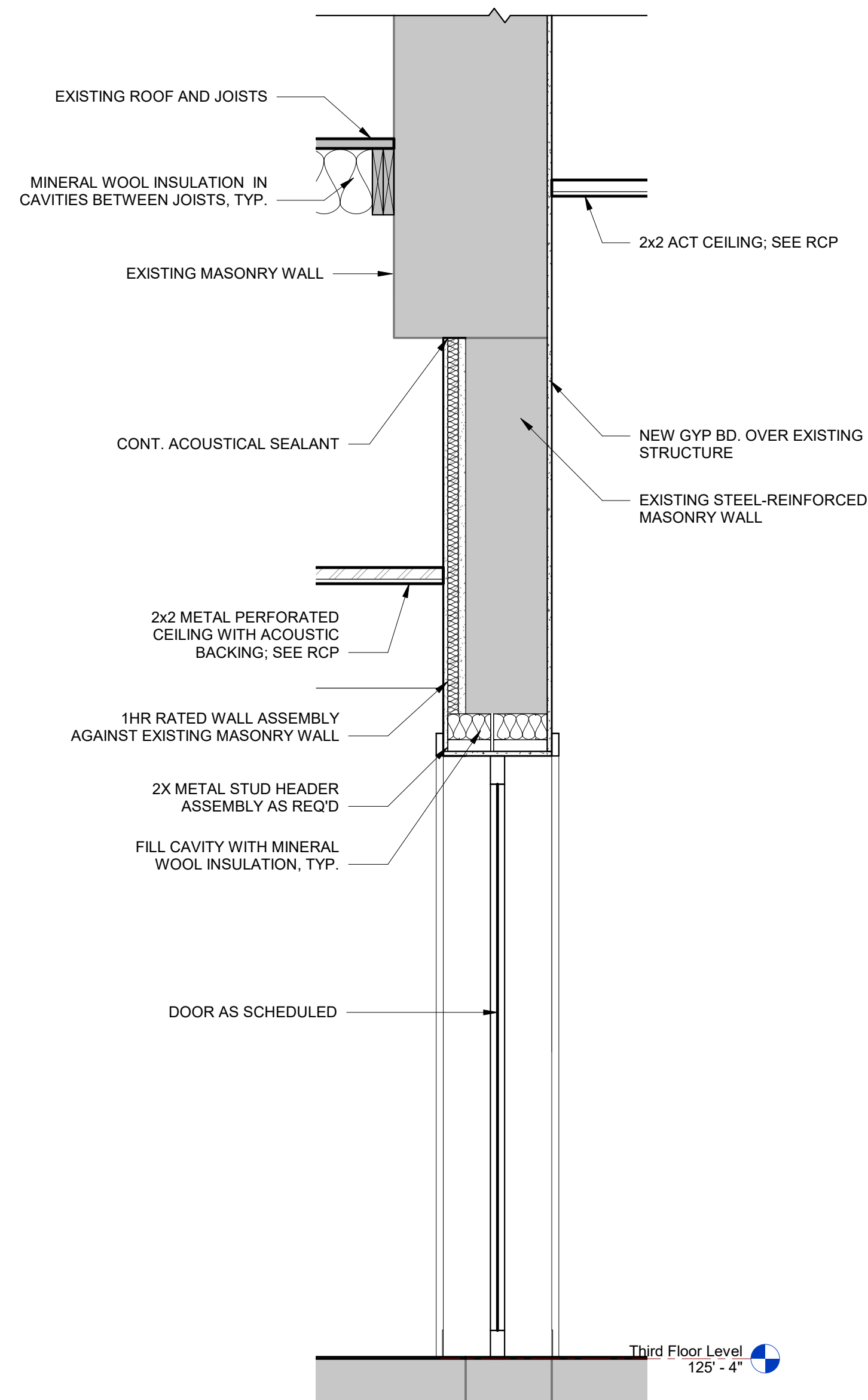
1 **HS Entrance Security Window Section**  
SCALE: 3/4" = 1'-0"



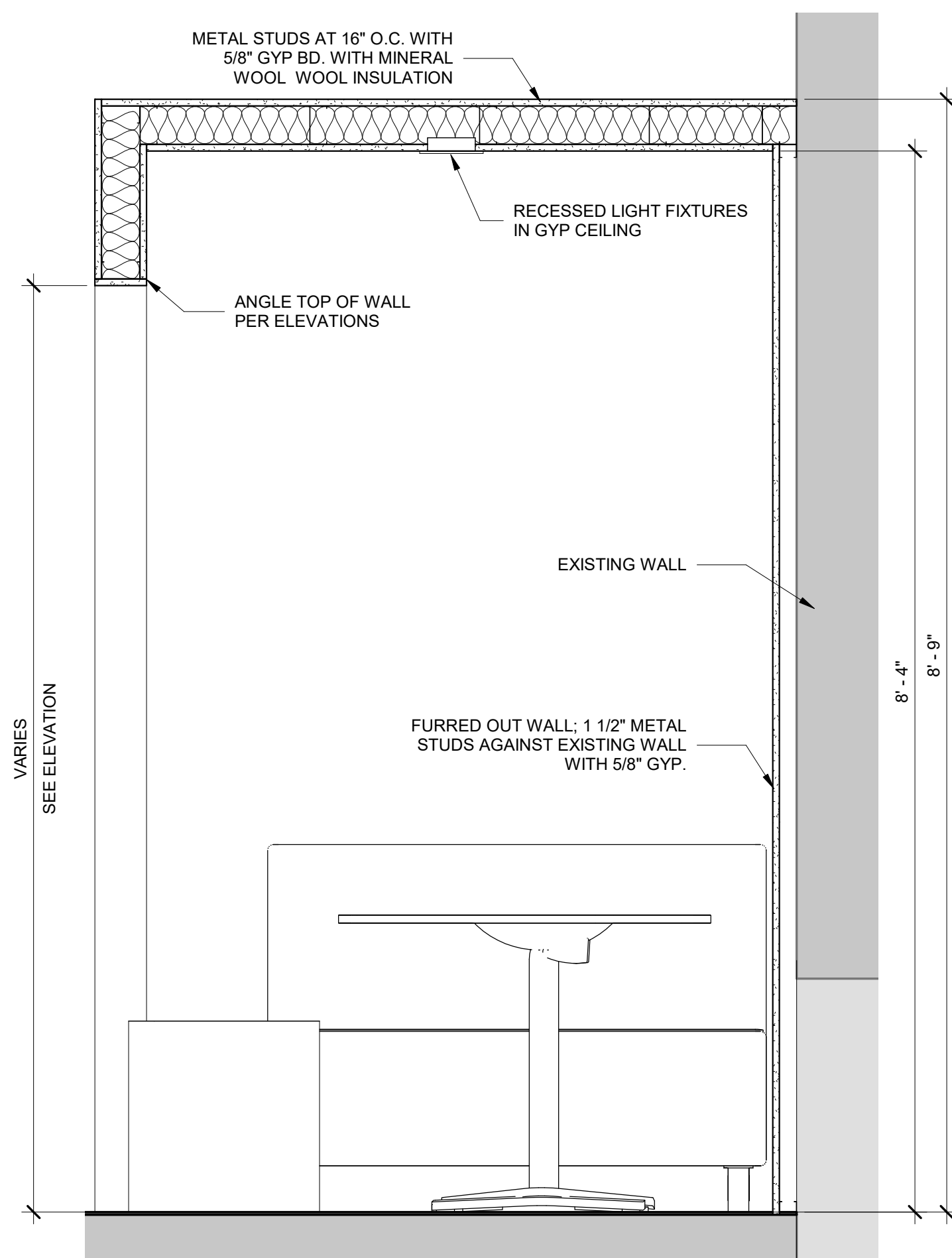
2 **HS Entry Vestibule Section Ticket Booth**  
SCALE: 3/4" = 1'-0"



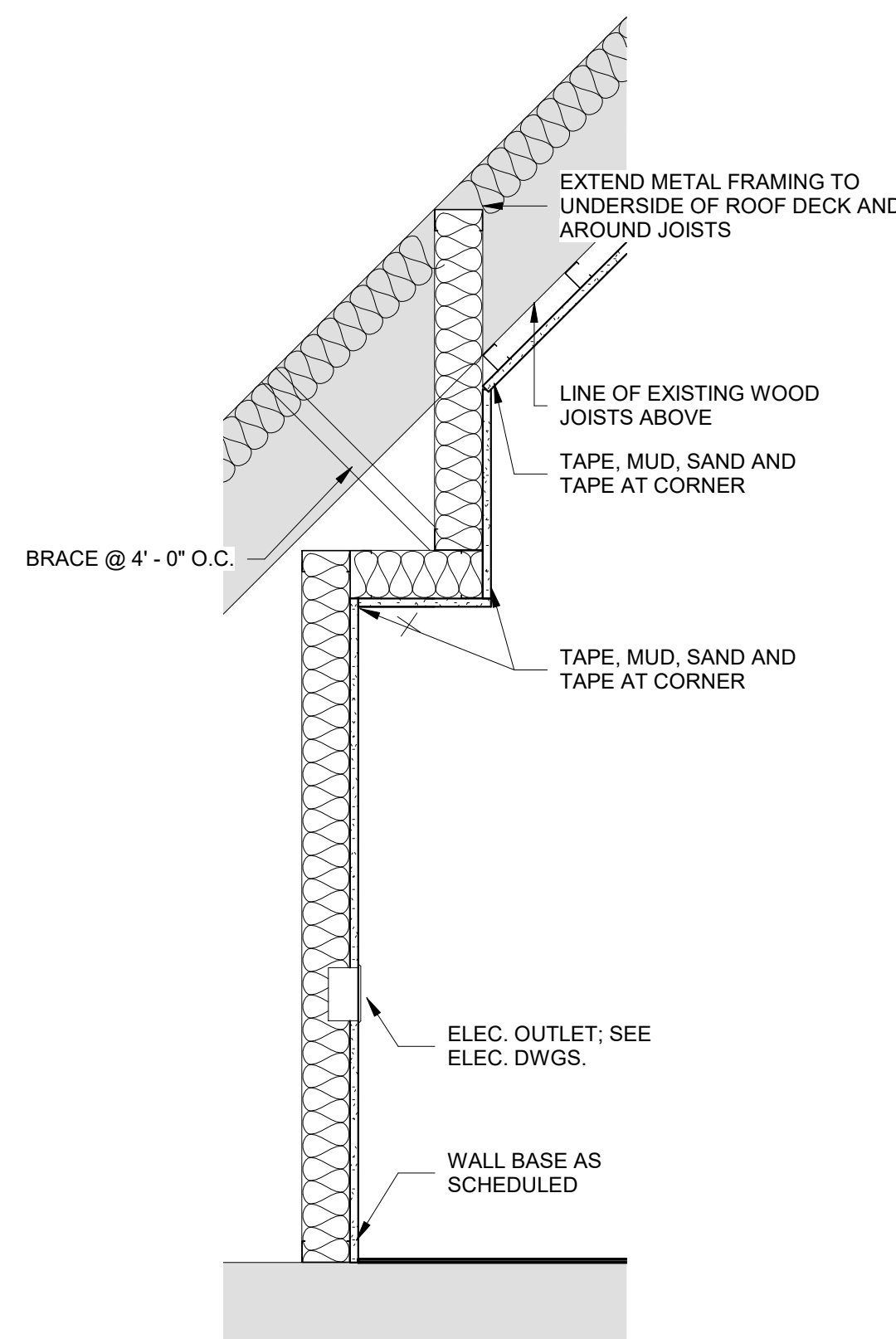
3 **HS Entry Wall Infill**  
SCALE: 3/4" = 1'-0"



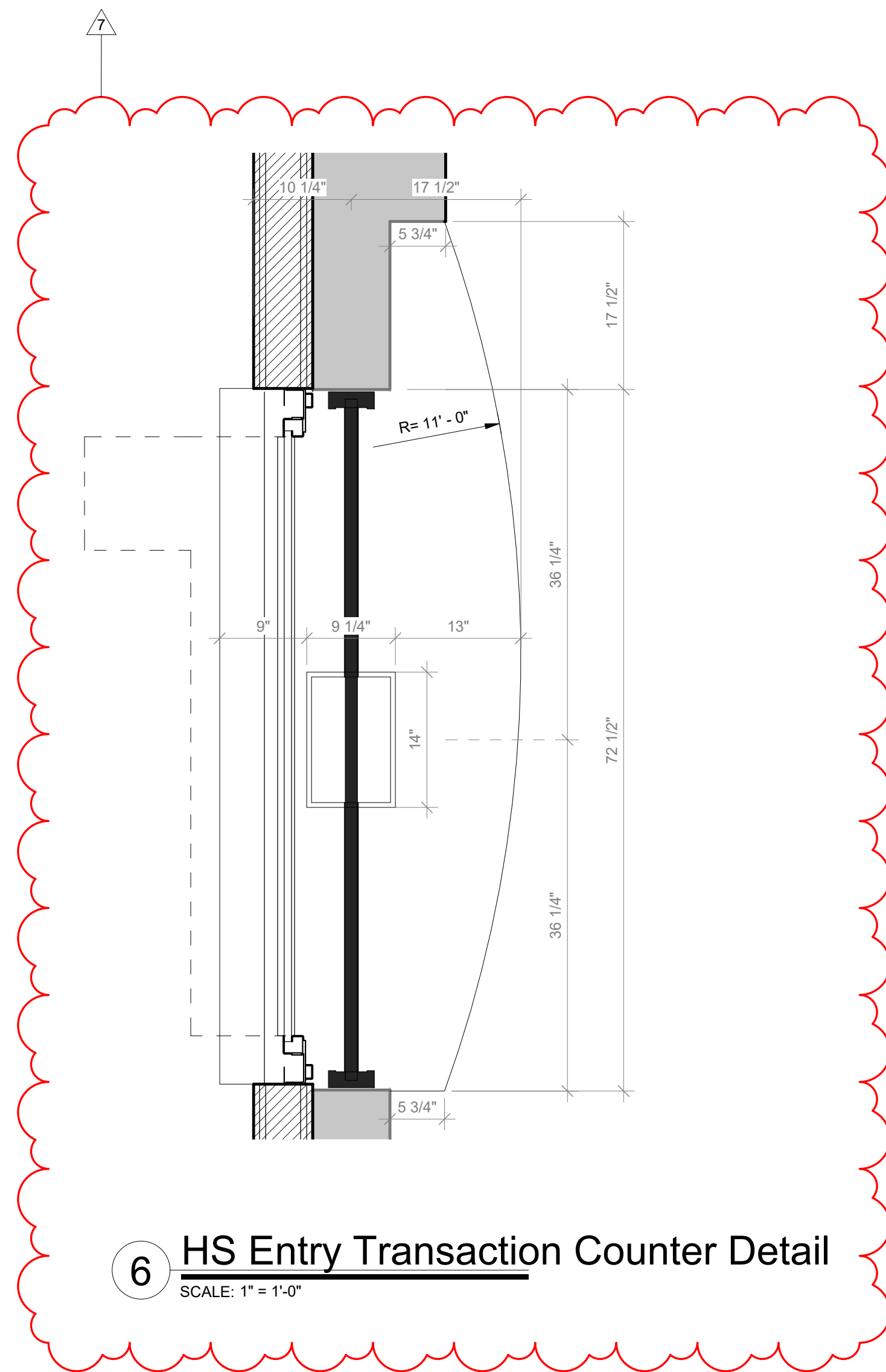
9 **Third Floor Wall section at Door 314A**  
SCALE: 3/4" = 1'-0"



4 **HS Third Floor Booth Seating Detail**  
SCALE: 1" = 1'-0"



5 **HS Third Floor Caddy Storage Section**  
SCALE: 1" = 1'-0"



6 **HS Entry Transaction Counter Detail**  
SCALE: 1" = 1'-0"

Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
2	SED SUBMISSION: Addendum #1	01/11/2021
3	ISSUED FOR BID	01/19/2021
7	BID ADDENDUM #3	02/11/2021

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**Acoustic Consultant**  
DP DESIGN  
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**AV Consultant**  
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SED #: 6618-0001-0005-032

PROJECT

**Rye City School District**  
555 Theodore Fremd Ave, Rye, NY 10580

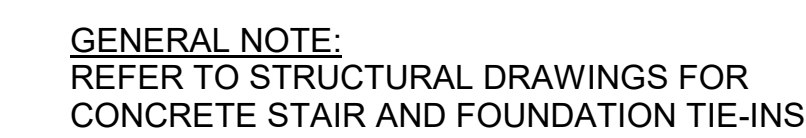
**Rye High School & Middle School**

1 Parsons Street, Rye, New York 10580

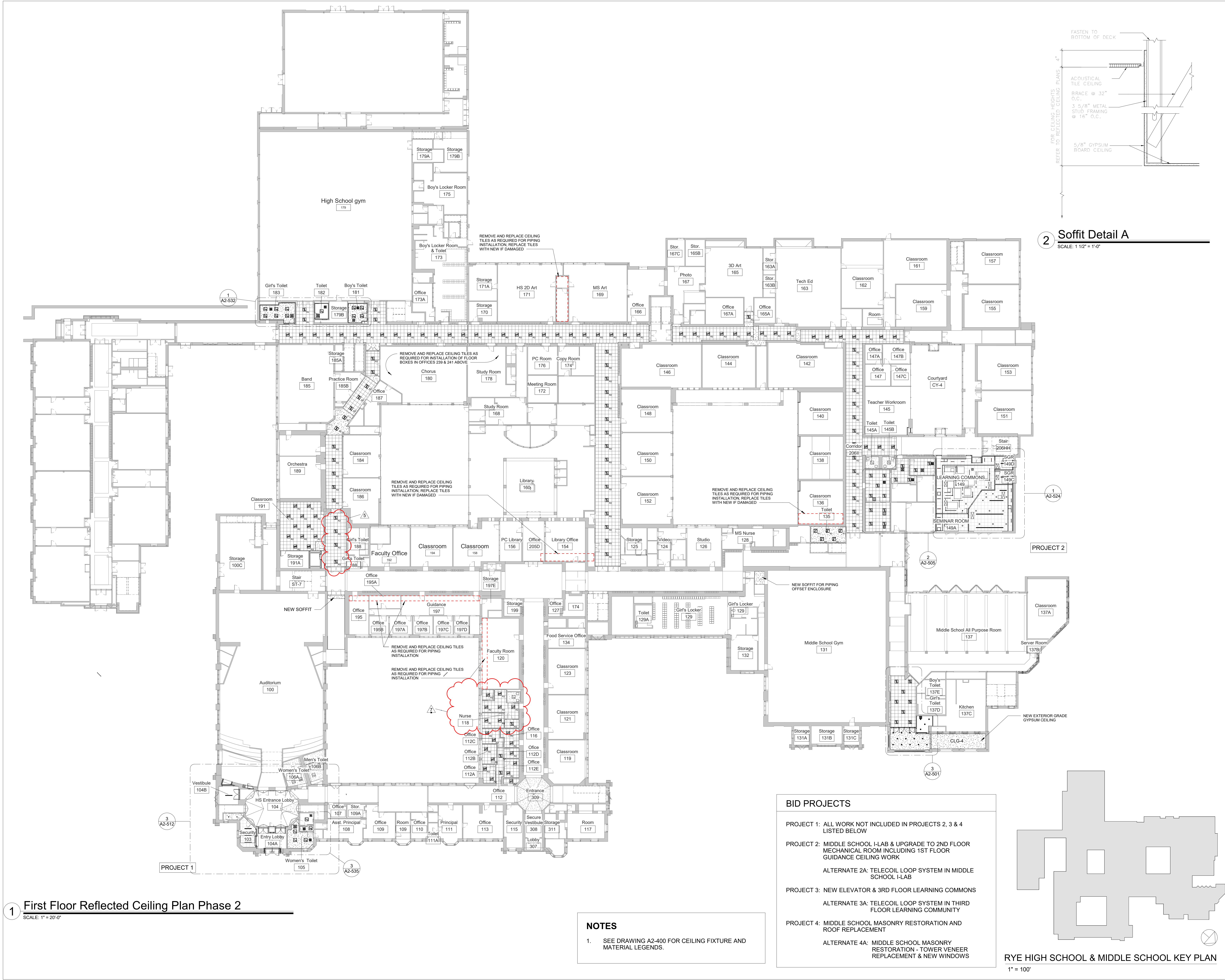
**THIRD FLOOR LEARNING COMMUNITY AND HS ENTRY DETAILS**

PROJECT 1 & 3

SEAL & SIGNATURE DATE: 08/27/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-321



SEAL & SIGNATURE	DATE: 05/05/20
	PROJECT No: 9200
	DRAWING BY: Author
	CHK BY: Checker
	DWG No: A2-322



Revision Schedule

No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
5	BID ADDENDUM #2	02/05/2021
7	BID ADDENDUM #3	02/11/2021

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SED #: 6618-0001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

FIRST FLOOR REFLECTED CEILING PLAN

PROJECT 1, 2, 3, & 4

SEAL & SIGNATURE

DATE: 01/19/21  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-401

**2 Soffit Detail A**  
SCALE: 1 1/2" = 1'-0"

**BID PROJECTS**

PROJECT 1: ALL WORK NOT INCLUDED IN PROJECTS 2, 3 & 4 LISTED BELOW

PROJECT 2: MIDDLE SCHOOL I-LAB & UPGRADE TO 2ND FLOOR MECHANICAL ROOM INCLUDING 1ST FLOOR GUIDANCE CEILING WORK

ALTERNATE 2A: TELECOIL LOOP SYSTEM IN MIDDLE SCHOOL I-LAB

PROJECT 3: NEW ELEVATOR & 3RD FLOOR LEARNING COMMONS

ALTERNATE 3A: TELECOIL LOOP SYSTEM IN THIRD FLOOR LEARNING COMMUNITY

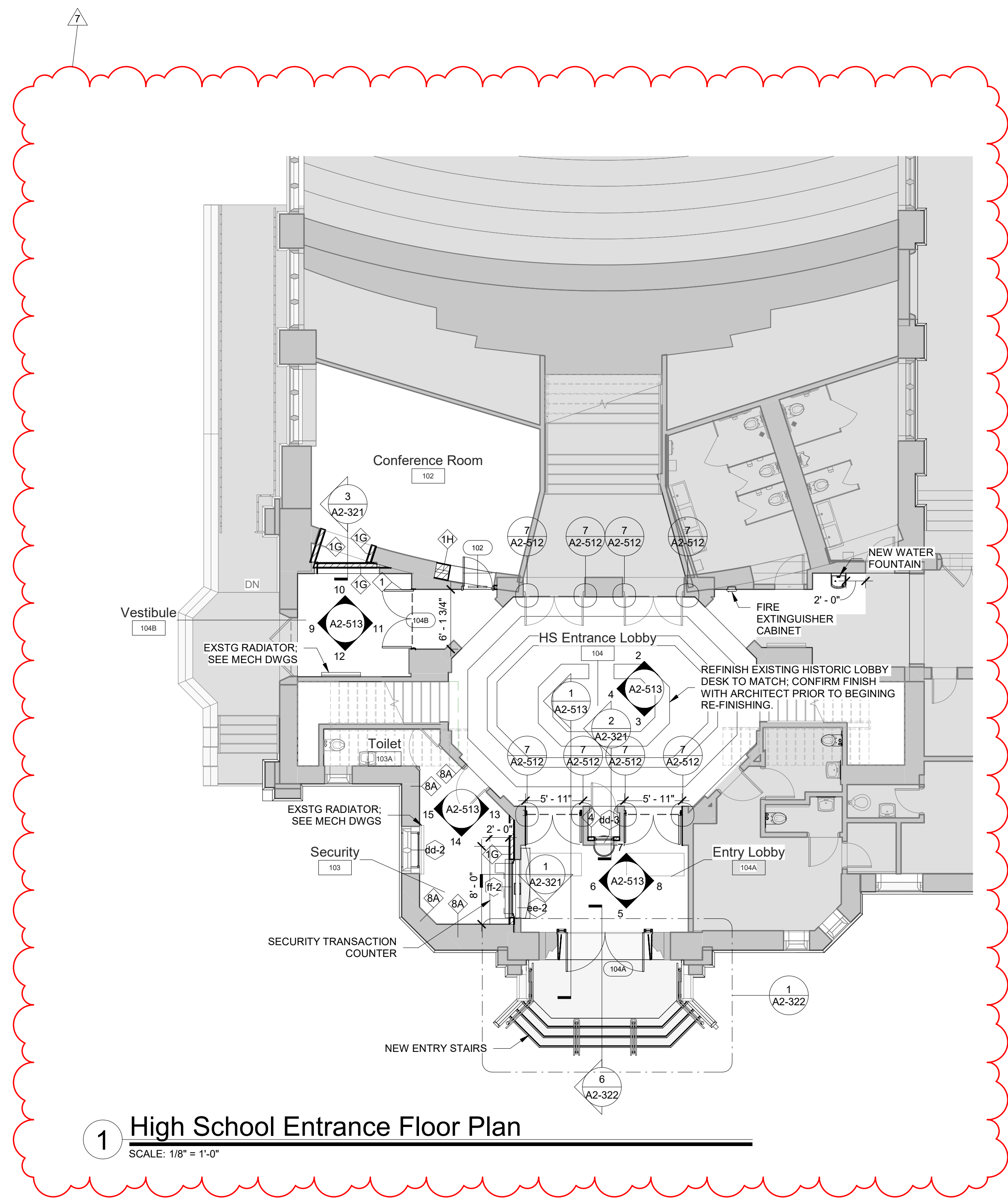
PROJECT 4: MIDDLE SCHOOL MASONRY RESTORATION AND ROOF REPLACEMENT

ALTERNATE 4A: MIDDLE SCHOOL MASONRY RESTORATION - TOWER VENEER REPLACEMENT & NEW WINDOWS

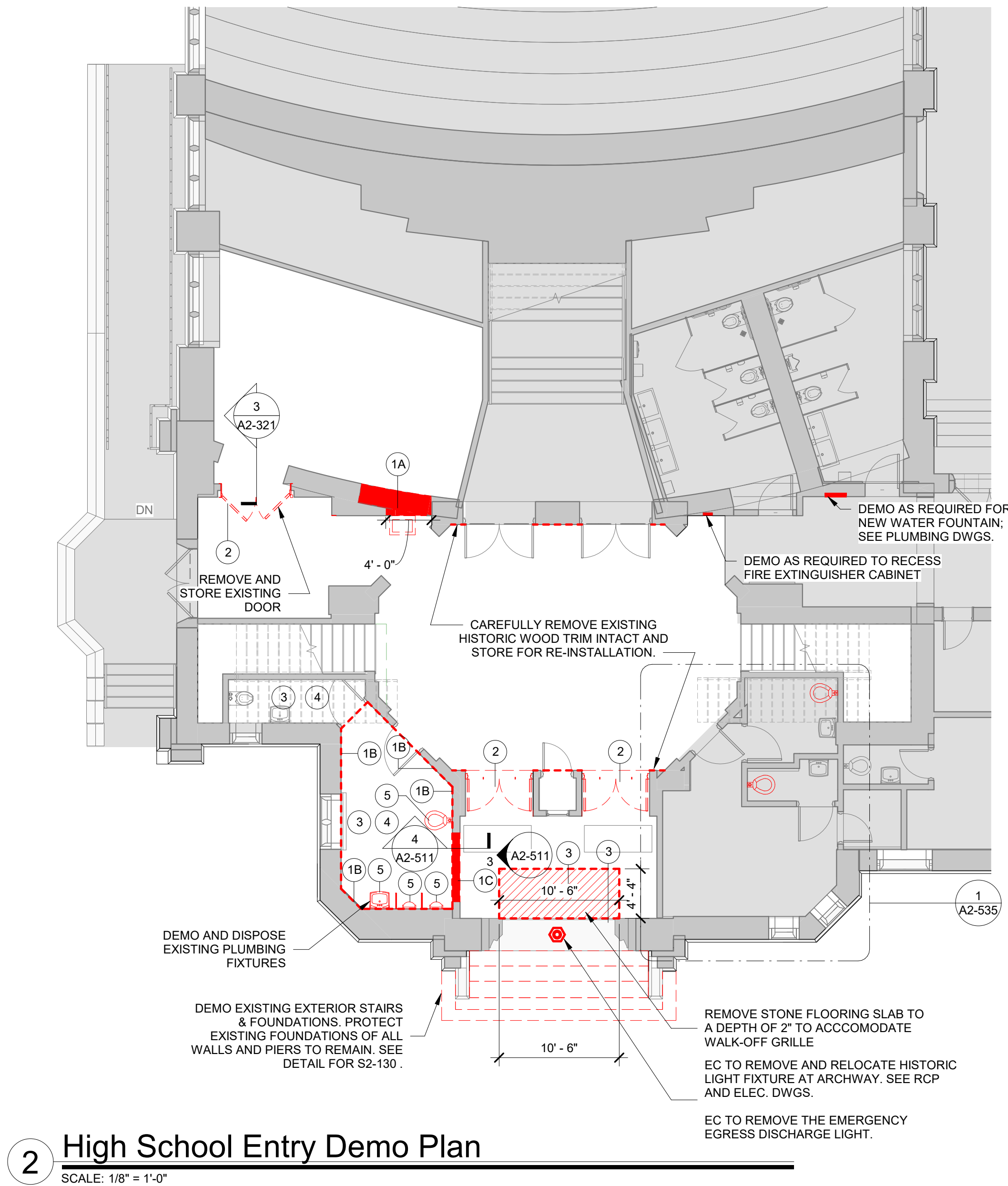
**NOTES**

1. SEE DRAWING A2-400 FOR CEILING FIXTURE AND MATERIAL LEGENDS.

**1 First Floor Reflected Ceiling Plan Phase 2**  
SCALE: 1" = 20'-0"



1 High School Entrance Floor Plan  
SCALE: 1/8" = 1'-0"

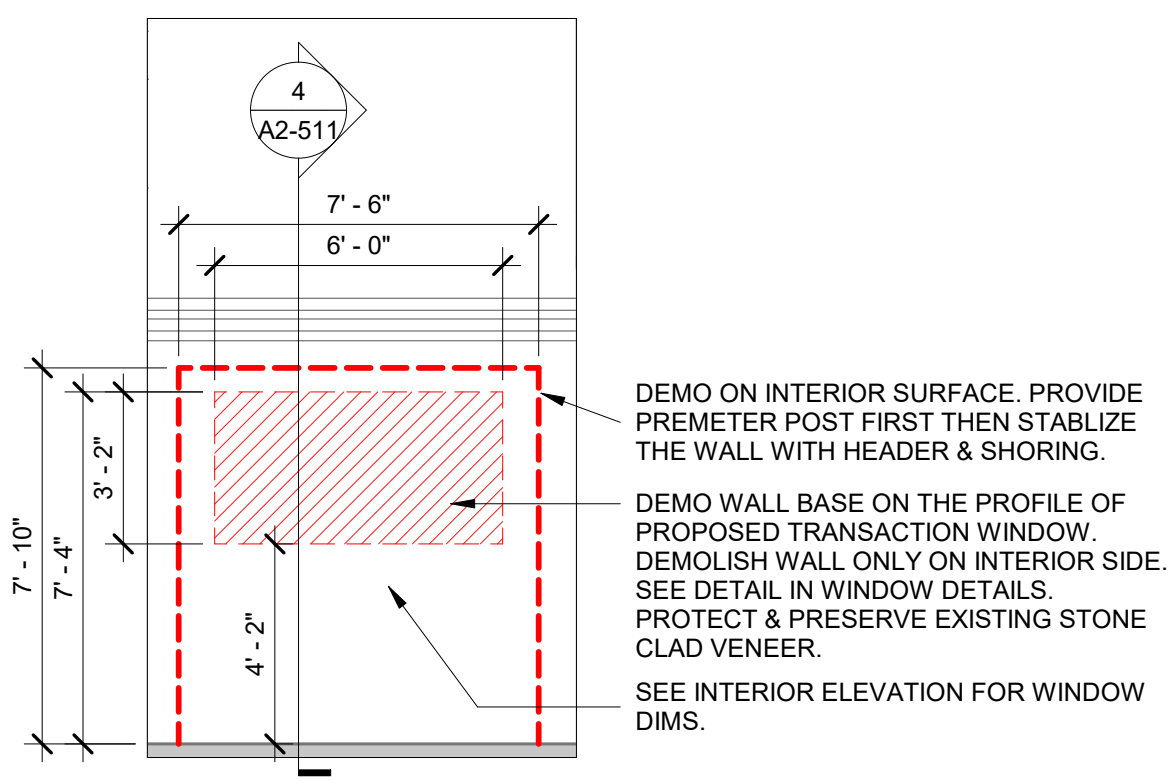


2 High School Entry Demo Plan  
SCALE: 1/8" = 1'-0"

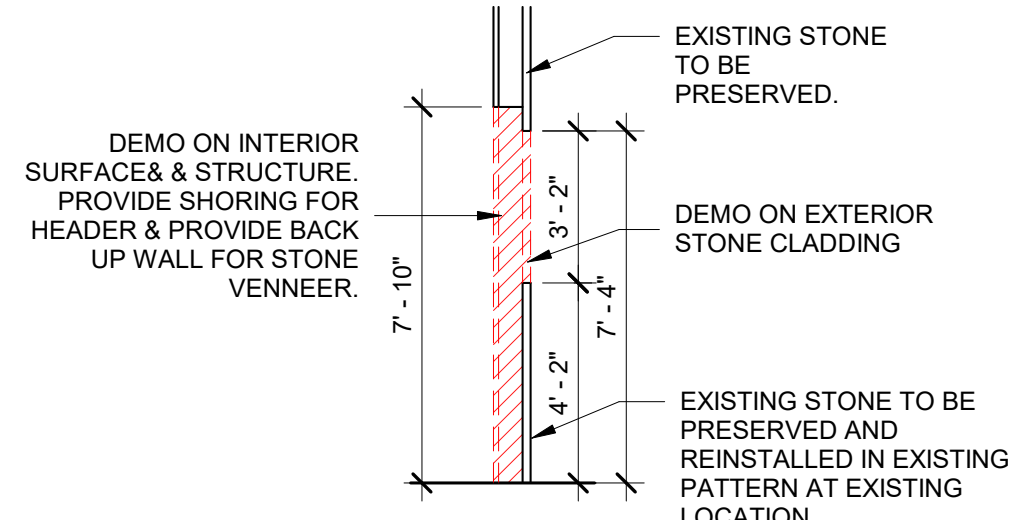
**GENERAL NOTE:**  
DIMENSIONS ARE SHOWN CENTERLINE TO CENTERLINE FOR NEW WALLS AND FACE OF EXISTING FINISH FOR EXTERIOR WALLS OR EXISTING WALLS TO REMAIN (UNLESS NOTED OTHERWISE)

Demolition Keynote Legend Phase 2	
Key Value	Keynote Text
1	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY.
1A	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A DOOR OPENING. SEE DOOR SCHEDULE.
1B	REMOVE EXISTING GYP. BD / TILE ON TAG SIDE OF THE WALL. EXISTING STUDS TO REMAIN.
1C	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A WINDOW OPENING. SEE WINDOW TYPES.
1D	EXISTING STONE VENEER/PRECAST/LIMESTONE TO BE REMOVED AND STORED TO BE RE-INSTALLED. SEE DEMO AND PROPOSED DRAWINGS FOR EXTENT OF WORK.
2	REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
2A	REMOVE EXISTING EXTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2B	REMOVE EXISTING INTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2C	REMOVE EXISTING EXTERIOR LOUVER, FRAME, SILL & ACCOCIATED HARDWARE
3	REMOVE EXISTING FLOORING, BASE, ADHESIVE AND ALL APPLIED ACCESSORIES. FLASH PATCH AS REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRATE PER MANUF. SPEC. FOR NEW FLOORING. PITCH TO NEW FLOOR DRAINS.
4	REMOVE EXISTING GYP. BD, CEILINGS, CEILING GRID, TILES & SOFFITS BELOW STRUCTURAL DECK. REMOVE EXISTING LIGHT FIXTURES AND DEVICES.
5	REMOVE EXISTING PLUMBING FIXTURES, TOILET PARTITIONS & ASSOCIATED PLUMBING AND ACCESSORIES.
6	REMOVE EXISTING MILLWORK COUNTER, CABINETS AND SHELVING.
6A	REMOVE EXISTING LOCKERS AND ASSOCIATED HARDWARE.

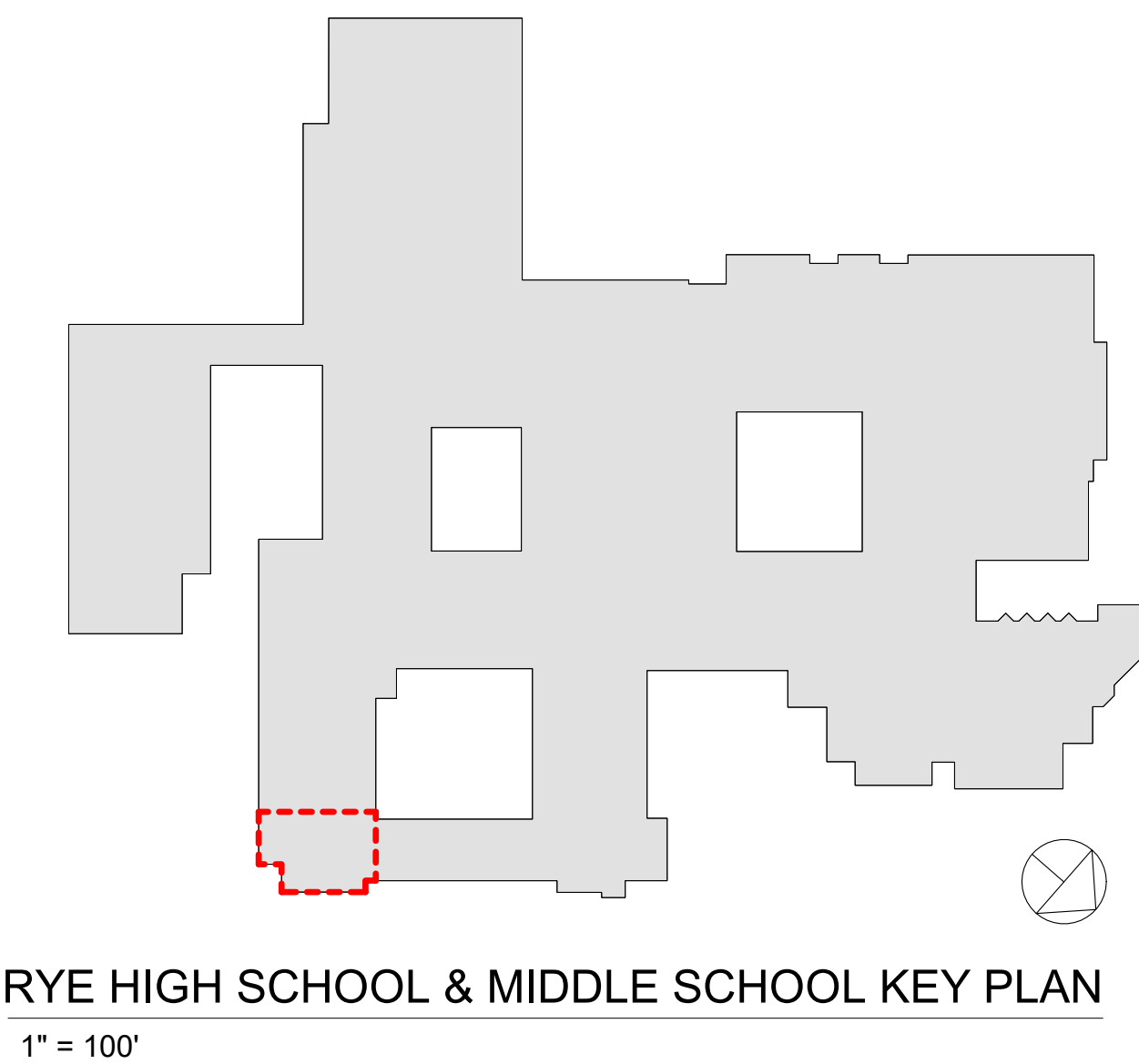
DEMO LEGEND	
	DEMO EXISTING WALLS & DOORS
	DEMO EXISTING WALL FINISHES
	AREA NOT IN SCOPE



3 HS Security Window Demo Elevation  
SCALE: 1/4" = 1'-0"



4 HS Security Window Demo Section  
SCALE: 1/4" = 1'-0"



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN  
1" = 100'

Revision Schedule

No.	Description	Date
1	SED SUBMISSION	09/15/2020
2	SED SUBMISSION: Addendum #1	01/11/2021
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SED #: 6618-0001-0005-032

PROJECT

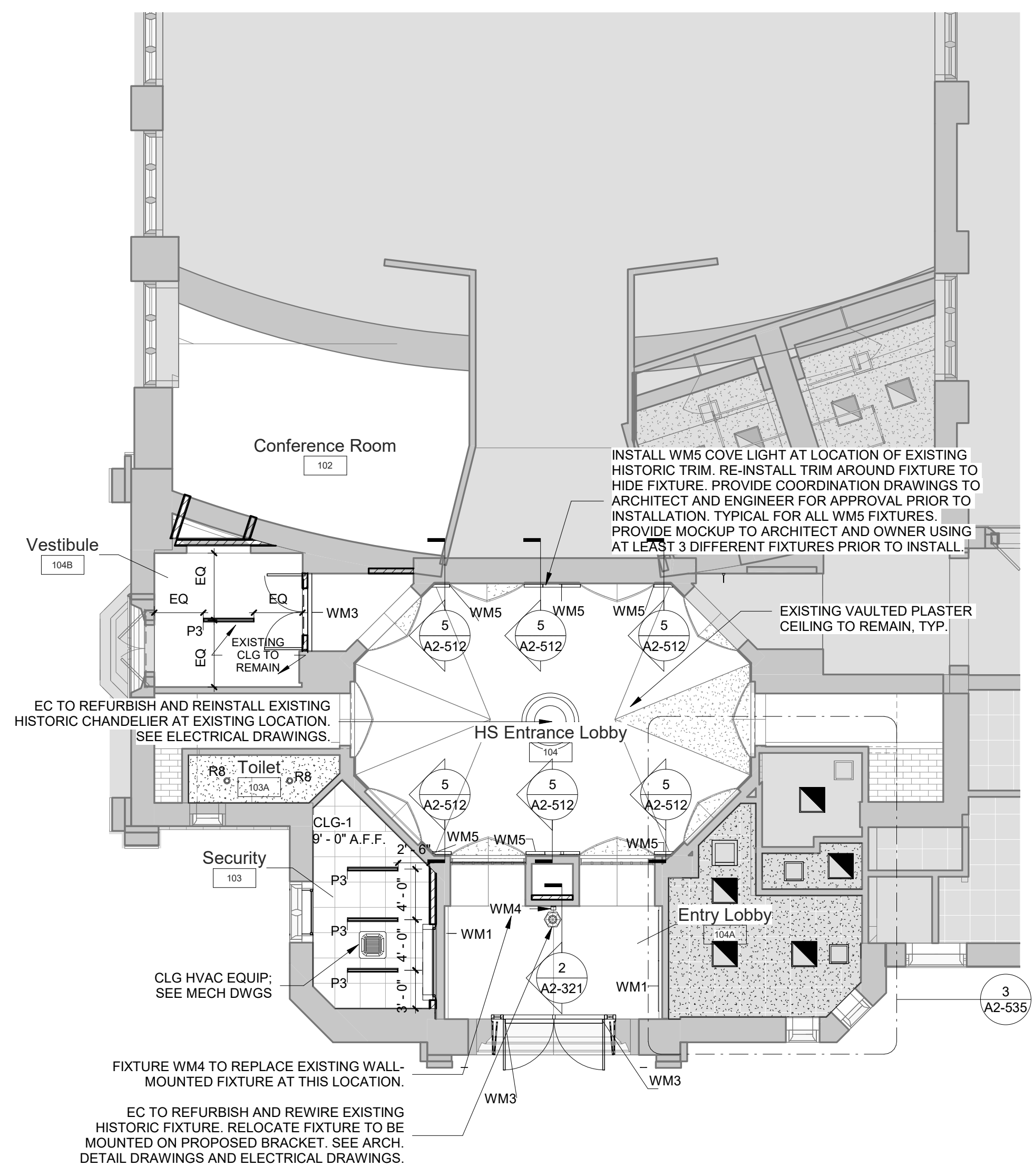
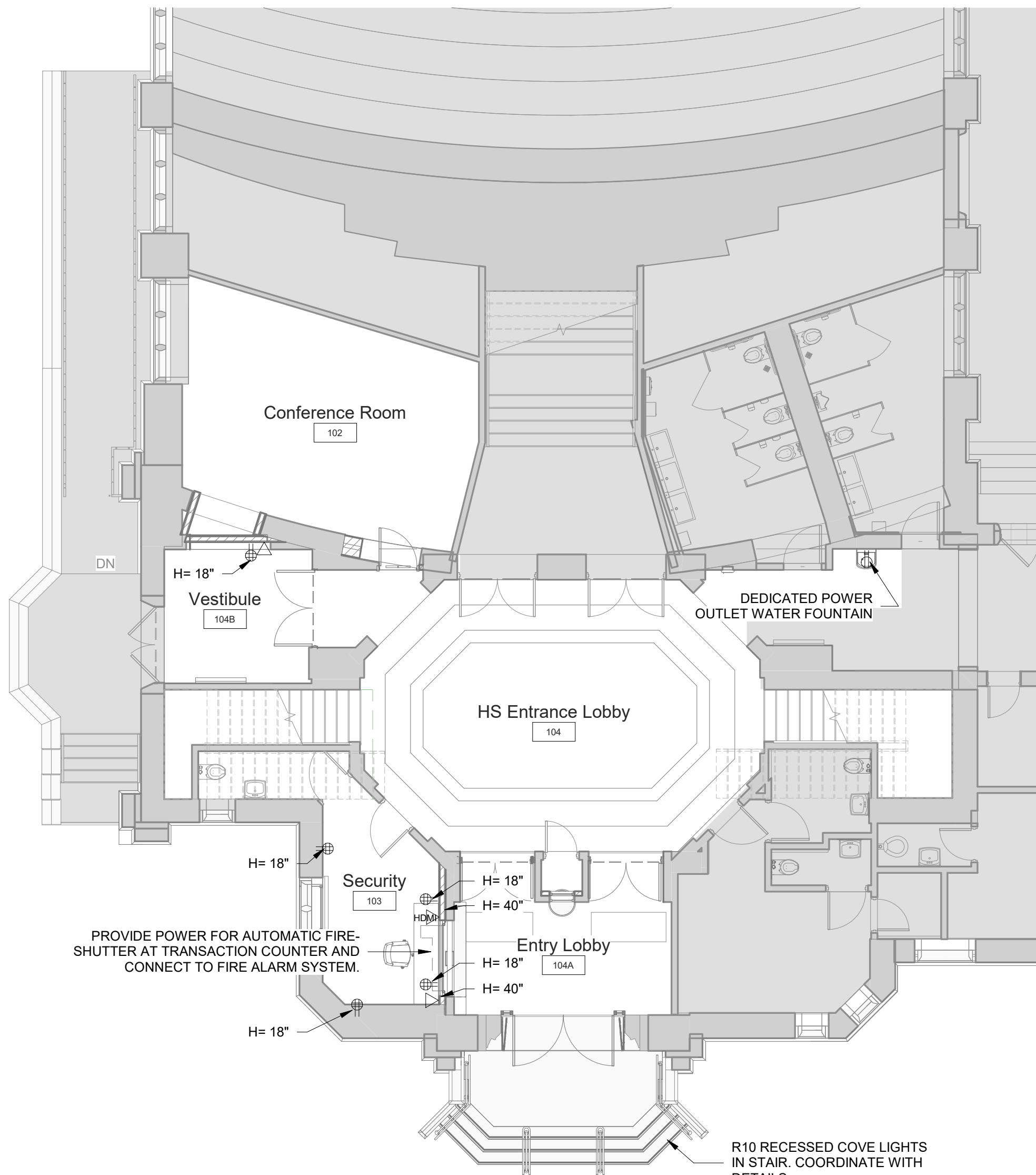
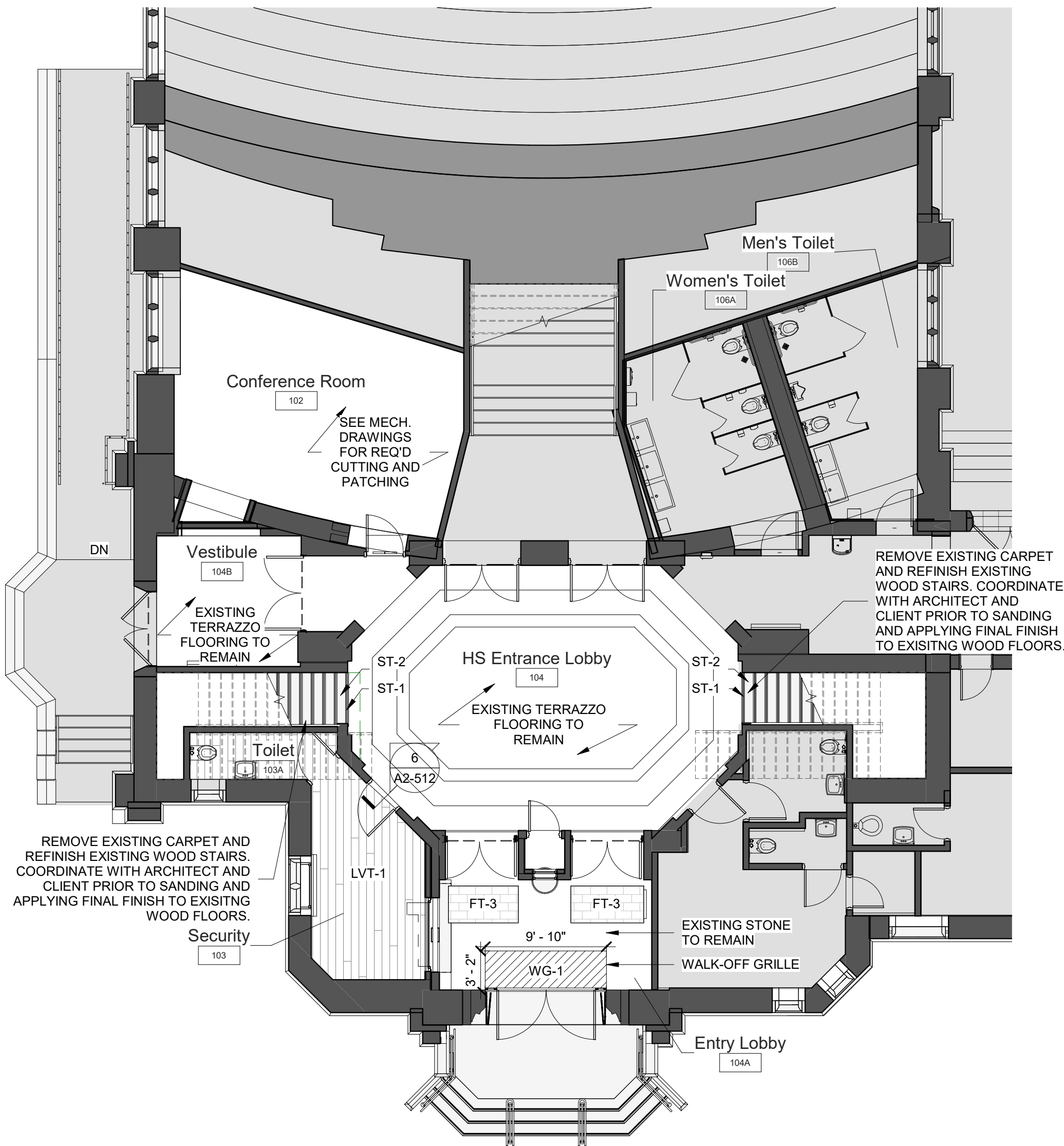
Rye City School District  
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School  
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL ENTRANCE PLANS

PROJECT 1

SEAL & SIGNATURE DATE: 11/04/19  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-511



#### 1 High School Entrance Flooring Plan

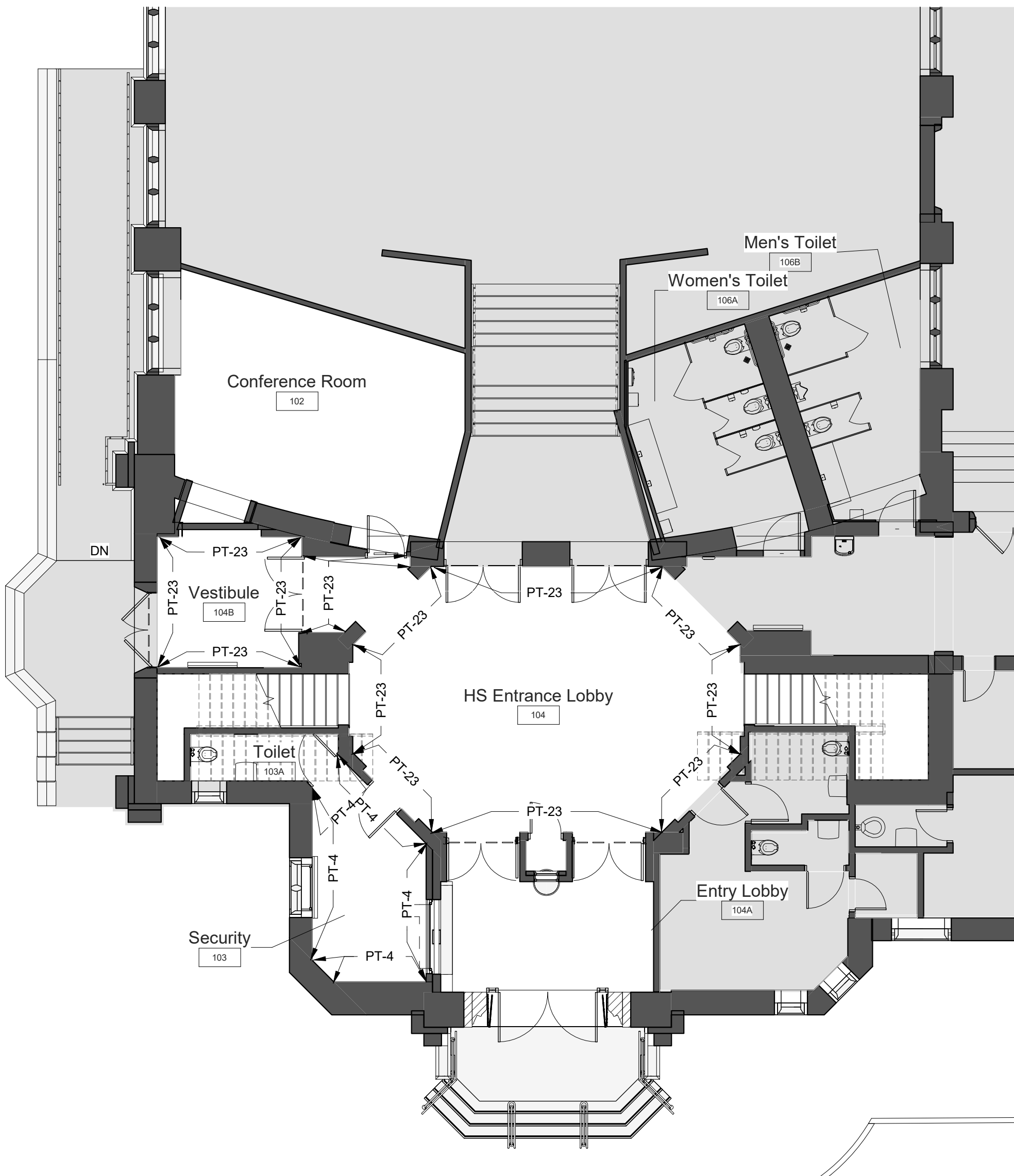
SCALE: 1/8" = 1'-0"

##### GENERAL NOTE:

1. ALL AREAS WITH NEW FLOORING TO RECEIVE SELF-LEVELING UNDERLAYMENT SO THAT SUBSTRATE IS SMOOTH AND LEVEL PER FLOORING MFG'S INSTRUCTIONS.

##### GENERAL NOTE:

SEE INTERIOR ELEVATIONS FOR CUT LINES OF WALL FINISHES



#### 4 High School Entry Wall Paint Plan

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

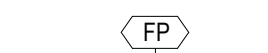
#### 2 High School Entrance Power and Technology Plan

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

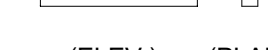
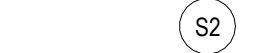
##### A/V FIXTURES - COORDINATE WITH OWNER'S A/V CONTRACTOR

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. SEE ELECTRICAL DRAWINGS. OWNER'S A/V DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA CONDUIT, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

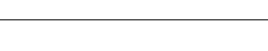
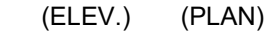
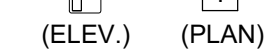
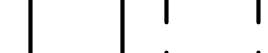
##### PROJECTORS AND DISPLAYS



##### SPEAKERS



##### ACCESSORIES



##### WALL-MOUNTED LCD DISPLAY (BY OWNER):

BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING.

##### CEILING-RECESSED AUDIO SPEAKER (BY OWNER):

BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING.

##### CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):

BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6 PROVIDE BLOCKING.

##### WALL MOUNTED SPEAKER (BY OWNER):

BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP)

##### AV EQUIPMENT CEILING RACK (BY OWNER):

BASIS OF DESIGN: ATLAS CR222-NR. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP)

##### WALL MOUNTED DIGITAL CLOCK:

BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

##### IP PHONE:

BASIS OF DESIGN: CISCO. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

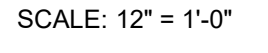
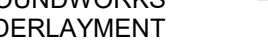
##### TOUCH CONTROL PANEL (BY OWNER)

EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN)

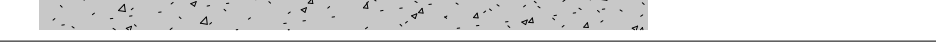
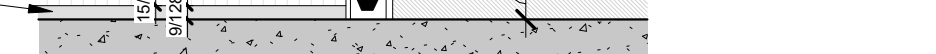
##### TELECOIL LOOP:

BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS)

##### SECURITY OFFICE



##### EXISTING



#### HS ENTRY - FLOOR TRANSITION DETAIL

A

SCALE: 12" = 1'-0"

##### AREA NOT IN SCOPE

##### POWER OUTLETS & DEVICES LEGEND:

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS. OWNER'S A/V DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA CONDUIT, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND A/V CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

##### USB AND POWER OUTLET

##### DOUBLE POWER OUTLET

##### QUAD POWER OUTLET

##### INTEGRATED FLOOR OUTLET AND AV INPUT; 4 INTEGRATED POWER OUTLETS

##### BASIS OF DESIGN: FSR FL-500P-4-B

##### HARDWIRED POWER LOCATION: \*NOTE ELECTRICAL CONTRACTOR TO SCHEDULE COORDINATION MEETING WITH ARCHITECT TO VERIFY HARDWIRE LOCATION FOR POWER INTEGRATED CASEWORK/FURNITURE

##### LIGHTING CONTROL PANEL

##### LIGHTING SWITCH

##### ETHERNET DATA OUTLET

##### HDMI DATA OUTLET

##### WALL MOUNTED DIGITAL CLOCK:

##### IP PHONE:

##### LED TAPE LIGHTING IN EXTRUDED ALUMINUM MOUNTING CHANNEL:

##### BASIS OF DESIGN: KELVIX CH-241-M CHANNEL

##### LED TAPE LIGHTING IN EXTRUDED ALUMINUM MOUNTING CHANNEL:

##### BASIS OF DESIGN: KELVIX CH-076 CHANNEL

##### OPTION 1

##### REINSTALL EXISTING HISTORIC TRIM WITH APPROPRIATE CONSTRUCTION ADHESIVE; WRAP CORNER OF NEW LIGHT FIXTURE TO TRIM OF EXISTING DOOR BEYOND; PAINT TRIM PER ELEVATIONS

##### OPTION 2

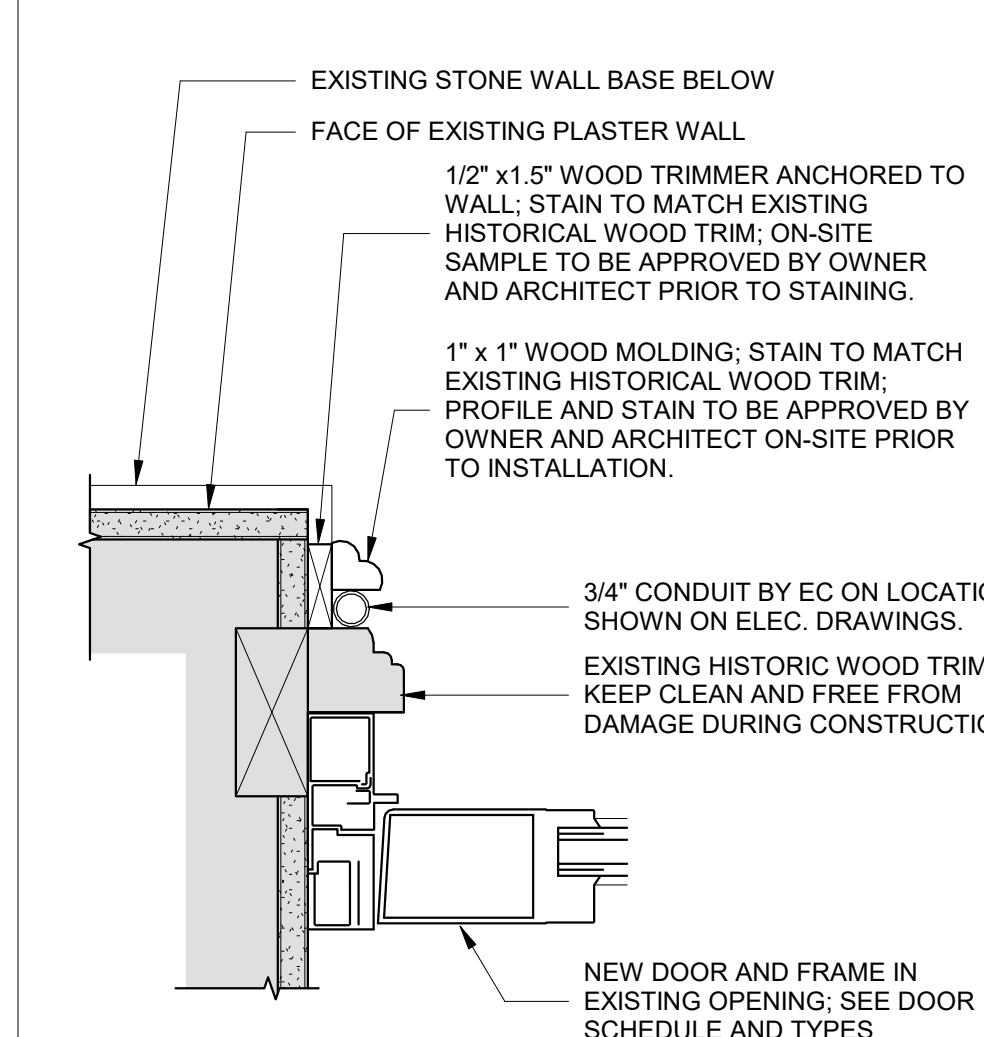
##### 1x BLOCKING AS NECESSARY; PAINT EXPOSED BOTTOM TO MATCH TRIM

#### HIGH SCHOOL ENTRY LOBBY - COVE LIGHT AT TRIM

5

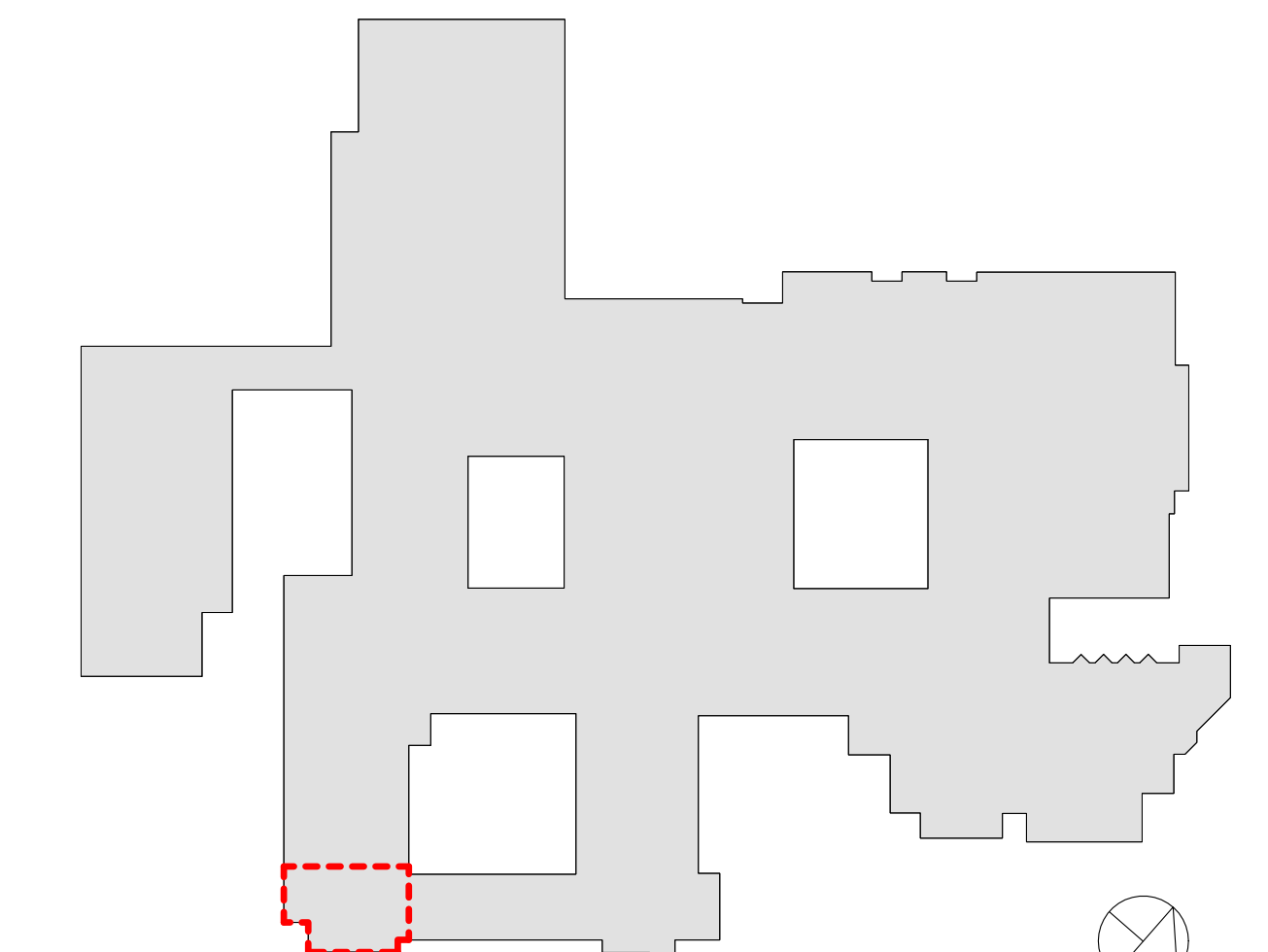
SCALE: 6" = 1'-0"

NOTE: NEW WOOD TRIM TO EXTEND TO MEET RE-INSTALLED HISTORIC WOOD TRIM AT BASE OF PLASTER ARCH AS REQUIRED IN ORDER TO HIDE NEW 3/4" CONDUIT (BY EC). SEE DETAIL 5/A2-512



#### HS ENTRY LOBBY - CONCEALED WIREMOLD AT DOOR JAMB

SCALE: 3\"/>



#### RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1\"/>

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SED #: 6618-0001-0005-032

##### PROJECT

Rye City School District

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Rye High School & Middle School

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##### HIGH SCHOOL ENTRANCE PLANS

##### PROJECT 1

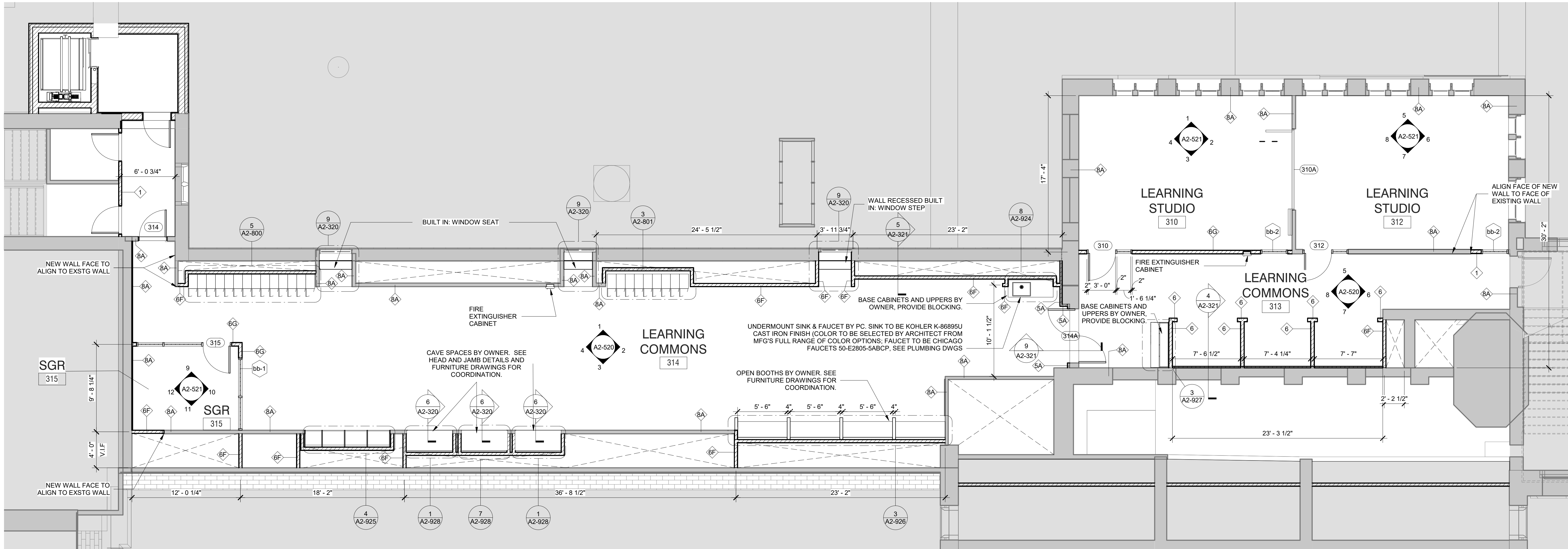
SEAL & SIGNATURE DATE: 06/12/20

PROJECT No: 9200

DRAWING BY: Author

CHK BY: Checker

DWG No: A2-512

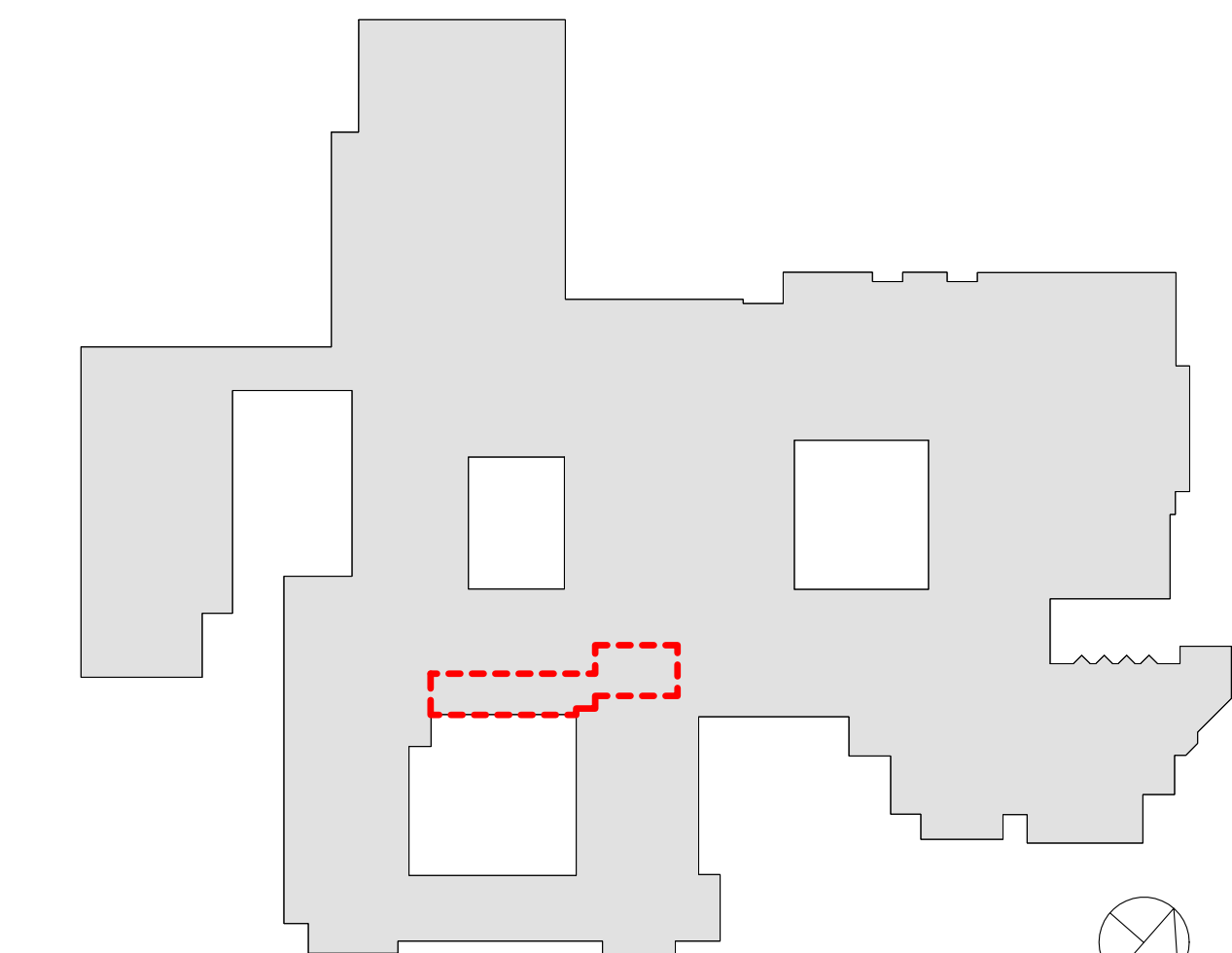


1

Third Floor

SCALE: 3/16" = 1'-0"

**NOTE:** GENERAL CONTRACTOR TO COORDINATE WITH OWNER'S CASEWORK CONTRACTOR TO OBTAIN SHOP DRAWINGS AND HOLD DIMENSIONS PER SHOP DRAWINGS AND TEMPLATES.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
7	BID ADDENDUM #3	02/11/2021

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Structural Engineer

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401-724-1771

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Acoustic Consultant

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401-861-3218

AV Consultant

CAVANAUGH TOCCI  
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Sudbury, MA 01776-3027  
978-443-7871

SED #: 6618-0001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

THIRD FLOOR LEARNING  
COMMUNITY FLOOR PLAN

PROJECT 3

SEAL & SIGNATURE | DATE: 02/13/20

PROJECT No: 9200

DRAWING BY: Author

CHK BY: Checker

DWG No: A2-516

Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
4	BID ADDENDUM #1	01/29/2021
7	BID ADDENDUM #3	02/11/2021

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SED #: 6618-0001-0005-032

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

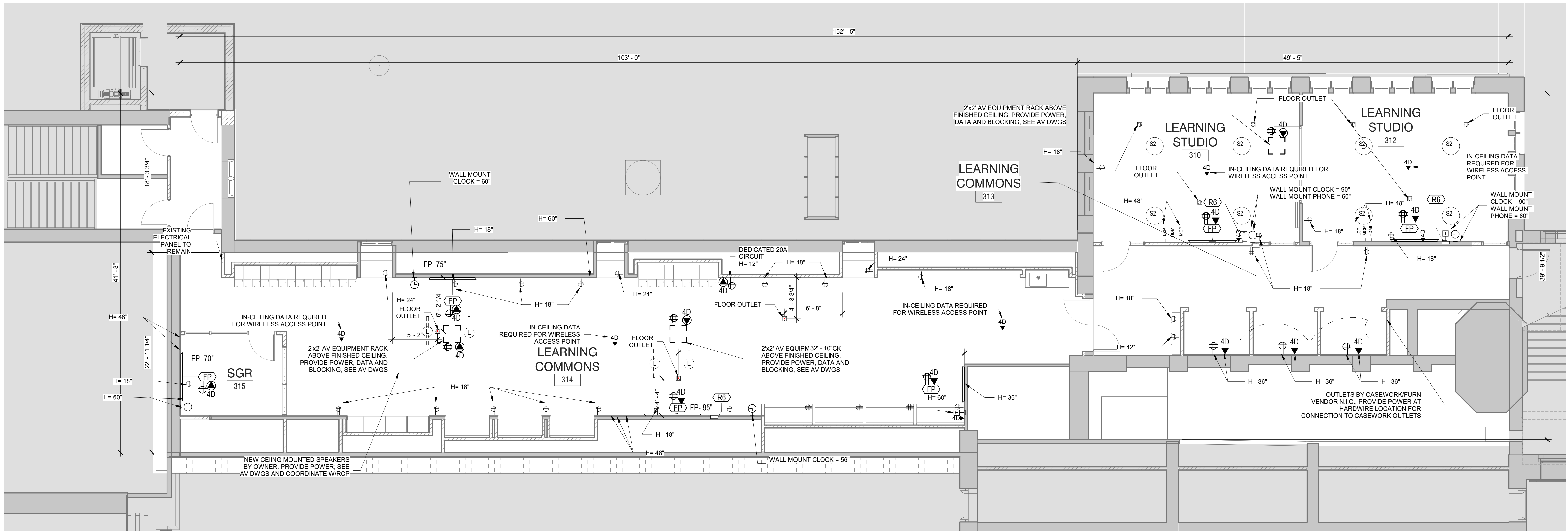
Rye High School & Middle  
School

1 Parsons Street, Rye, New York 10580

THIRD FLOOR LEARNING  
COMMUNITY POWER AND  
TECHNOLOGY PLAN

PROJECT 3

SEAL & SIGNATURE DATE: 09/02/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-517



### 1 Third Floor Power and Technology Plan

SCALE: 3/16" = 1'-0"

#### POWER OUTLETS & DEVICES LEGEND:

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS. OWNERS AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA CONDUIT, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND AV CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

	USB AND POWER OUTLET
	DOUBLE POWER OUTLET
	QUAD POWER OUTLET
	INTEGRATED FLOOR OUTLET AND AV INPUT; 4 INTEGRATED POWER OUTLETS BASIS OF DESIGN: FSR FL-500P-4-B
	HARDWIRED POWER LOCATION: *NOTE ELECTRICAL CONTRACTOR TO SCHEDULE COORDINATION MEETING WITH ARCHITECT TO VERIFY HARDWIRE LOCATION FOR POWER INTEGRATED CASEWORK/FURNITURE
	LIGHTING CONTROL PANEL
	LIGHTING SWITCH
	ETHERNET DATA OUTLET
	HDMI DATA OUTLET
	WALL MOUNTED DIGITAL CLOCK:
	IP PHONE:

#### A/V FIXTURES - COORDINATE WITH OWNER'S A/V CONTRACTOR

THIS DRAWING SHOWN FOR ARCHITECTURAL COORDINATION PURPOSES ONLY. SEE ELECTRICAL DRAWINGS. OWNERS AV DRAWINGS CAN BE PROVIDED UPON REQUEST. ALL POWER, DATA CONDUIT, COPPER WIRE FOR TELECOIL LOOP SYSTEM, AND AV CONDUIT TO BE BY ELECTRICAL CONTRACTOR.

#### PROJECTORS AND DISPLAYS

**WALL-MOUNTED LCD DISPLAY (BY OWNER):**  
BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING.

#### SPEAKERS

**CEILING-RECESSED AUDIO SPEAKER (BY OWNER):**  
BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING.

**CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):**  
BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6  
PROVIDE BLOCKING.

**WALL MOUNTED SPEAKER (BY OWNER):**  
BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1.  
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP)

#### ACCESSORIES

**AV EQUIPMENT CEILING RACK (BY OWNER):**  
BASIS OF DESIGN: ATLAS CR222-NR.  
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP)

**WALL MOUNTED DIGITAL CLOCK:**  
BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS  
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

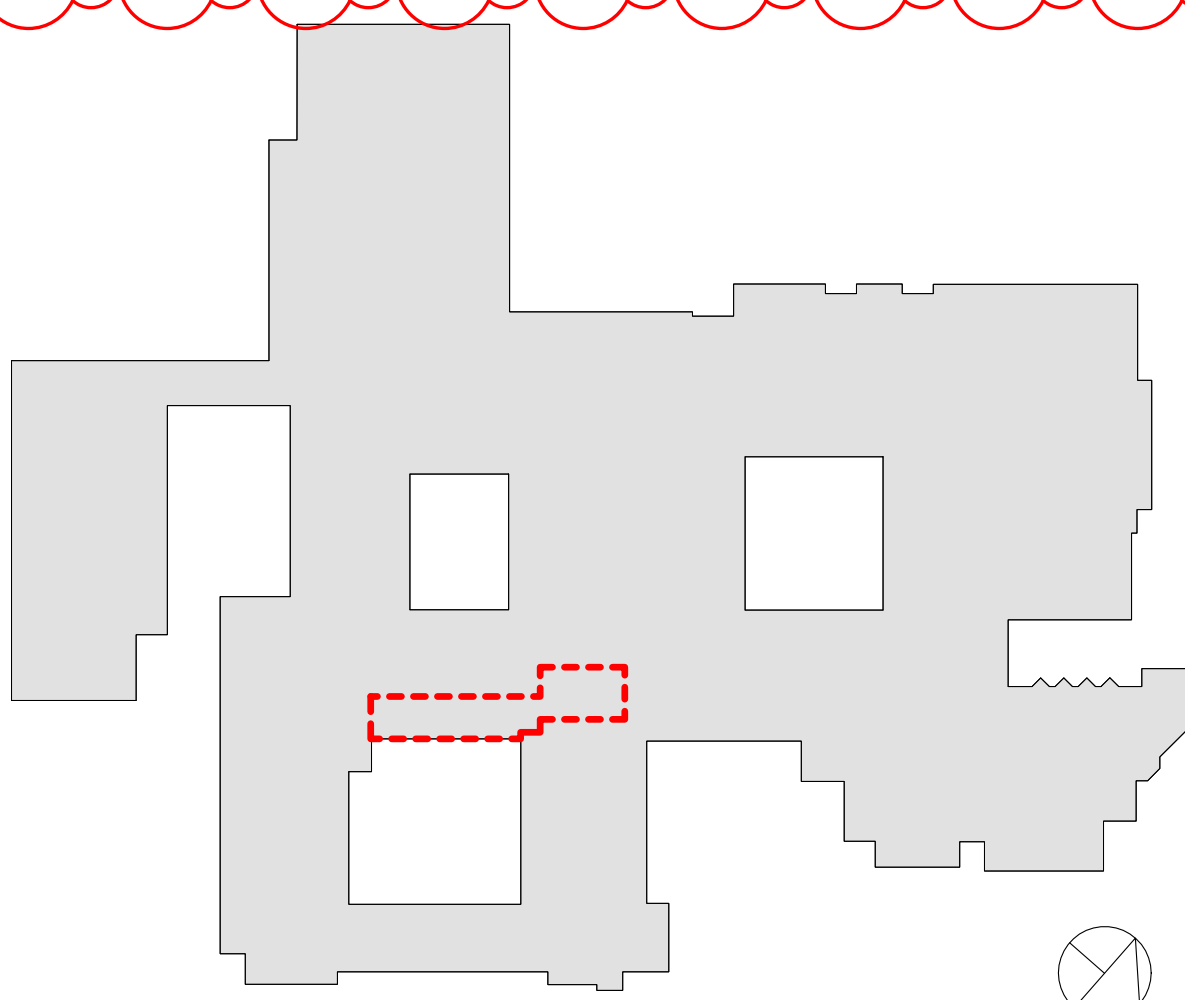
**IP PHONE:**  
BASIS OF DESIGN: CISCO.  
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)

**TOUCH CONTROL PANEL (BY OWNER)**  
EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN)

**TELECOIL LOOP:**  
BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS)

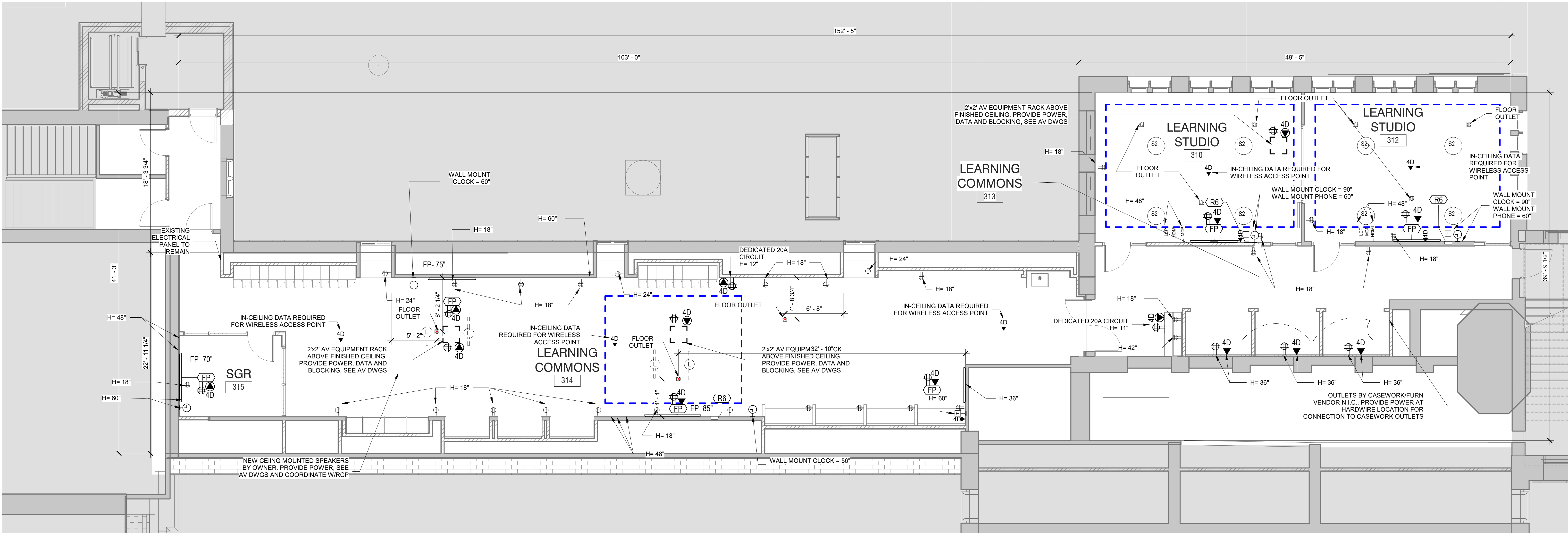
#### GENERAL NOTE:

CEILING CONTRACTOR TO OWN CEILING CUT OUTS FOR A/V CEILING RECESSED SPEAKERS. COORDINATE WITH OWNER'S AV CONTRACTOR AND DO NOT CUT HOLES UNTIL THE SPEAKERS ARE ON SITE AND COORDINATION DRAWING AND DOCUMENTS ARE APPROVED.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'



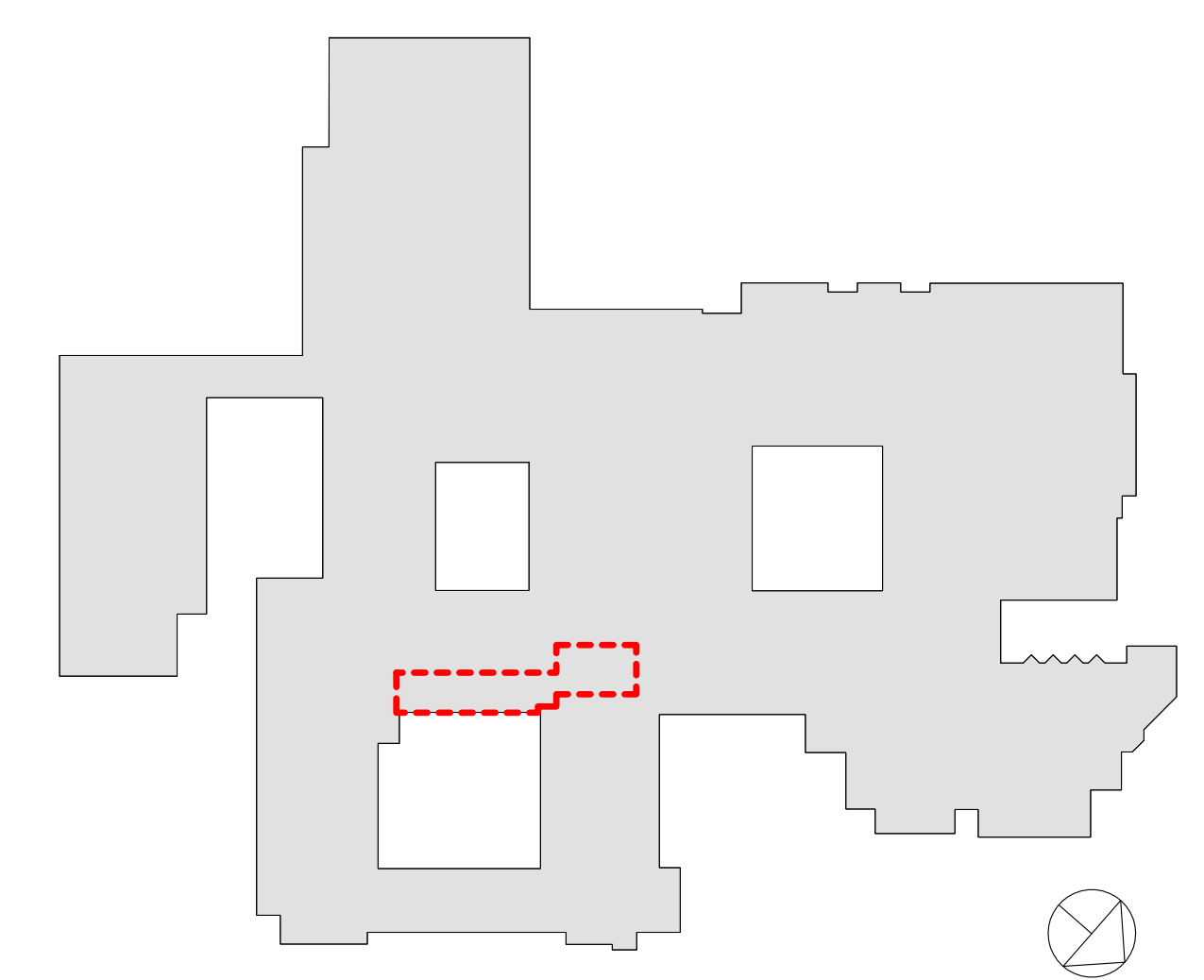
Third Floor Power and Technology Plan -  
Alternate

SCALE: 3/16" = 1'-0"

POWER OUTLETS & DEVICES LEGEND:	
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	DOUBLE POWER OUTLET
	QUAD POWER OUTLET
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	HARDWIRED POWER LOCATION: *NOTE ELECTRICAL CONTRACTOR TO SCHEDULE COORDINATION MEETING WITH ARCHITECT TO VERIFY HARDWIRE LOCATION FOR POWER INTEGRATED CASEWORK/FURNITURE
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	LIGHTING SWITCH
	ETHERNET DATA OUTLET
	HDMI DATA OUTLET
	WALL MOUNTED DIGITAL CLOCK:
	IP PHONE:

AV FIXTURES - COORDINATE WITH OWNER'S AV CONTRACTOR	
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<b>PROJECTORS AND DISPLAYS</b>	
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<b>SPEAKERS</b>	
	<b>CEILING-RECESSED AUDIO SPEAKER (BY OWNER):</b> BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING.
	<b>CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):</b> BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6 PROVIDE BLOCKING.
	<b>WALL MOUNTED SPEAKER (BY OWNER):</b> BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP)
<b>ACCESSORIES</b>	
	<b>AV EQUIPMENT CEILING RACK (BY OWNER):</b> BASIS OF DESIGN: ATLAS CR222-NR. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP)
	<b>WALL MOUNTED DIGITAL CLOCK:</b> BASIS OF DESIGN: ATLAS TED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)
	<b>IP PHONE:</b> BASIS OF DESIGN: CISCO. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN)
	<b>TOUCH CONTROL PANEL (BY OWNER)</b> ETRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN)
	<b>TELECOIL LOOP :</b> BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS)

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RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN  
1" = 100'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	02/11/2021

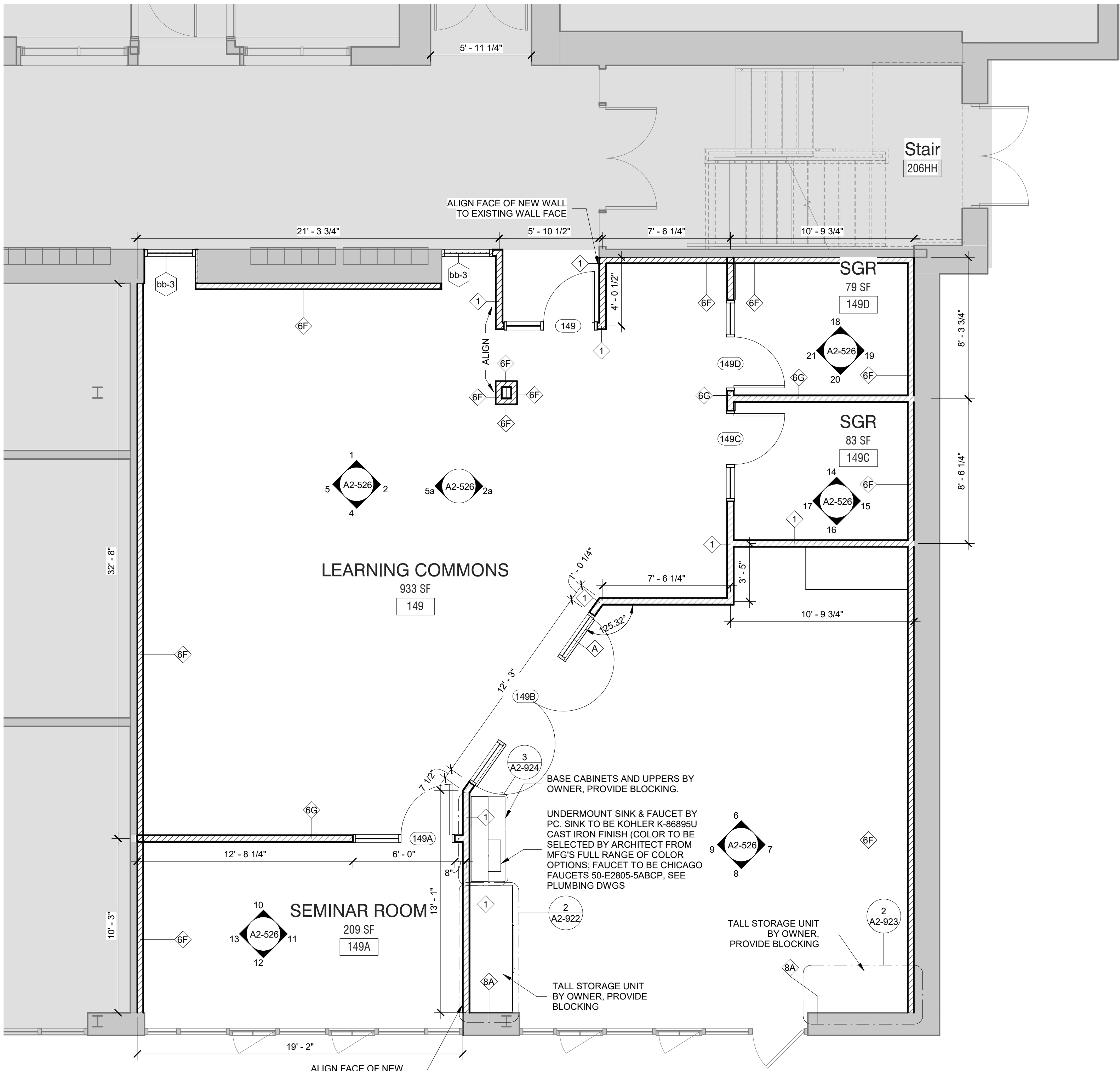
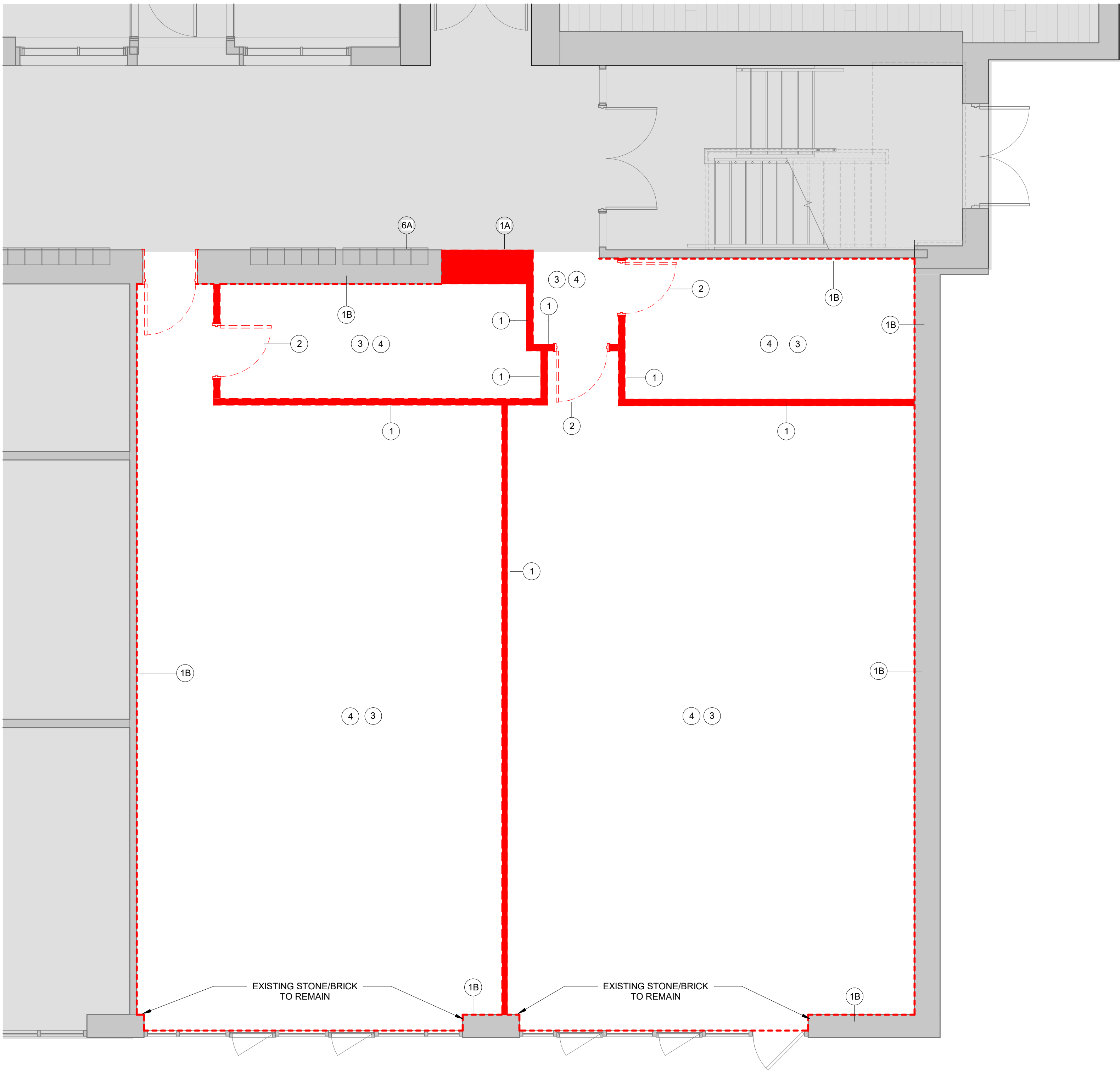
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SED #: 6618-0001-0005-032  
PROJECT  
Rye City School District  
555 Theodore Fremd Ave, Rye, NY 10580  
Rye High School & Middle School  
1 Parsons Street, Rye, New York 10580  
THIRD FLOOR LEARNING COMMUNITY POWER AND TECHNOLOGY PLAN - ALTERNATES  
PROJECT 3A  
SEAL & SIGNATURE DATE: 02/10/21  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-517A



## 1 Middle School iLab Demo Plan

SCALE: 1/4" = 1'-0"

Demolition Keynote Legend Phase 2	
Key Value	Keynote Text
1	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY.
1A	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A DOOR OPENING. SEE DOOR SCHEDULE.
1B	REMOVE EXISTING GYP. BD./ TILE ON TAG SIDE OF THE WALL. EXISTING STUDS TO REMAIN.
1C	REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSEMBLY TO CREATE A WINDOW OPENING. SEE WINDOW TYPES.
1D	EXISTING STONE VENEER/PRECAST/LIMESTONE TO BE REMOVED AND STORED TO BE RE-INSTALLED. SEE DEMO AND PROPOSED DRAWINGS FOR EXTENT OF WORK.
2	REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
2A	REMOVE EXISTING EXTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2B	REMOVE EXISTING INTERIOR WINDOW, FRAME AND ASSOCIATED HARDWARE.
2C	REMOVE EXISTING EXTERIOR LOUVER, FRAME, SILL & ACCOCIATED HARDWARE
3	REMOVE EXISTING FLOORING, BASE, ADHESIVE AND ALL APPLIED ACCESSORIES. FLASH PATCH AS REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRATE PER MANUF. SPEC. FOR NEW FLOORING. PITCH TO NEW FLOOR DRAINS.
4	REMOVE EXISTING GYP. BD. CEILINGS, CEILING GRID, TILES & SOFFITS BELOW STRUCTURAL DECK. REMOVE EXISTING LIGHT FIXTURES AND DEVICES.
5	REMOVE EXISTING PLUMBING FIXTURES, TOILET PARTITIONS & ASSOCIATED PLUMBING AND ACCESSORIES.
6	REMOVE EXISTING MILLWORK COUNTER, CABINETS AND SHELVING.
6A	REMOVE EXISTING LOCKERS AND ASSOCIATED HARDWARE.

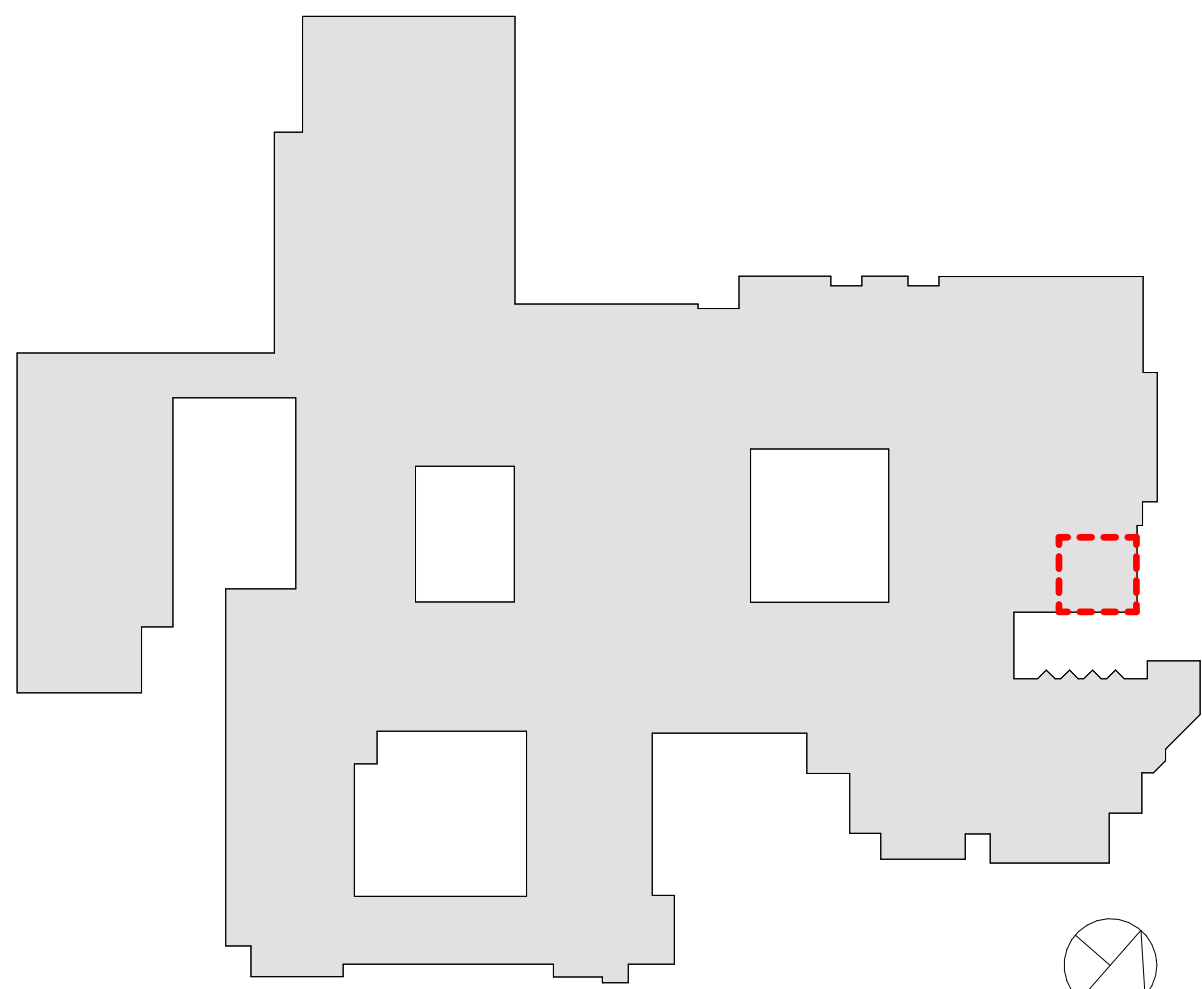
### DEMO LEGEND

- DEMO EXISTING WALLS & DOORS
- - - DEMO EXISTING WALL FINISHES
- AREA NOT IN SCOPE

## 2 Middle School iLab Floor Plan

SCALE: 1/4" = 1'-0"

NOTE: GENERAL CONTRACTOR TO COORDINATE WITH OWNER'S CASEWORK CONTRACTOR TO OBTAIN SHOP DRAWINGS AND HOLD DIMENSIONS PER SHOP DRAWINGS AND TEMPLATES.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

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SED #: 6618-0001-0005-032

### PROJECT

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School

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MS i-LAB DEMO PLAN AND  
FLOOR PLAN

PROJECT 2

SEAL & SIGNATURE | DATE: 05/14/20

PROJECT No: 9200

DRAWING BY: Author

CHK BY: Checker

DWG No: A2-522



AV FIXTURES - COORDINATE WITH OWNER'S AV CONTRACTOR

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PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE W/ POWER PLAN)

**IP PHONE:**  
BASIS OF DESIGN: CISCO.  
PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE W/ POWER PLAN)

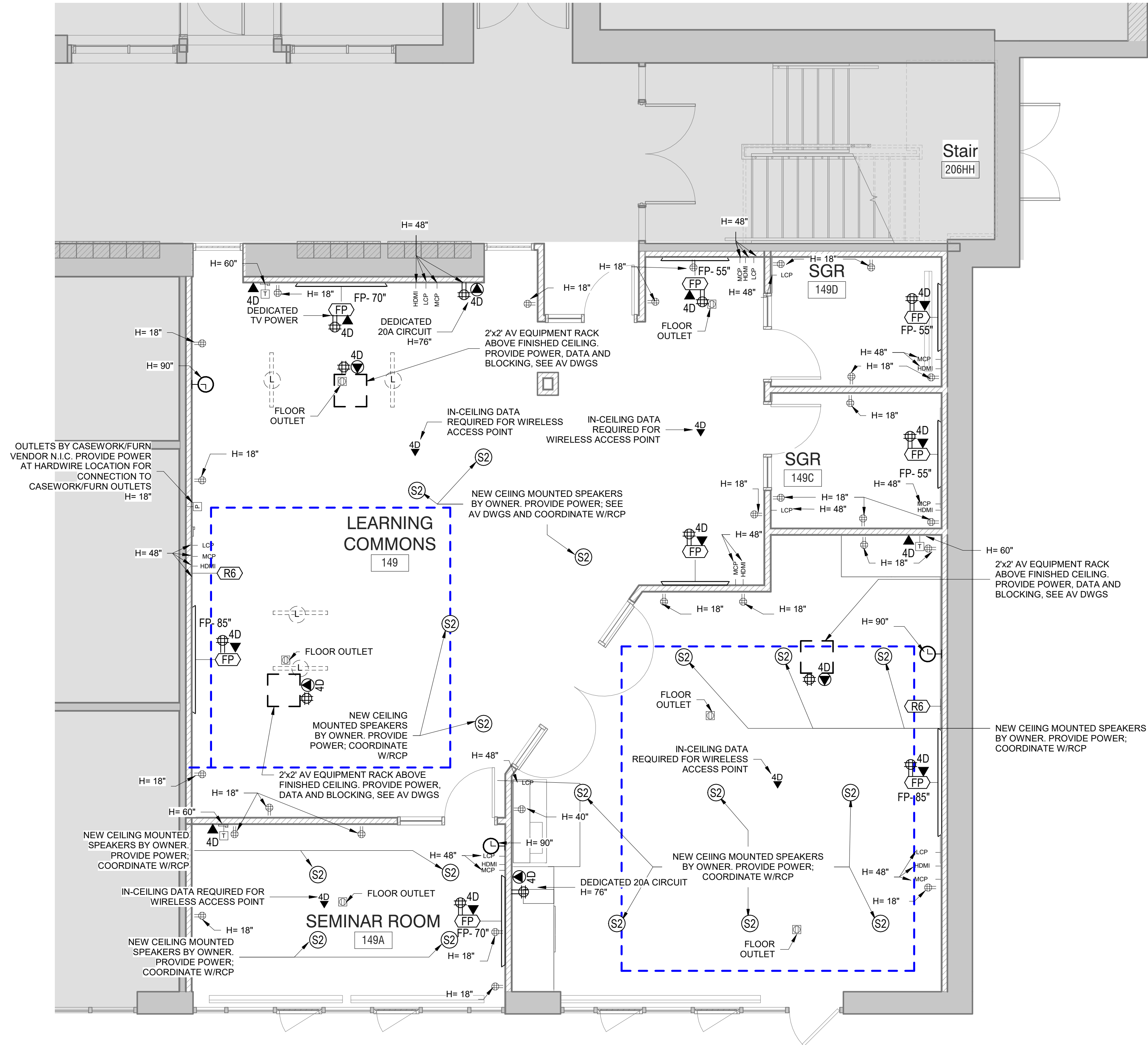
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BASIS OF DESIGN: FSR FL-500P-4-B
- HARDWIRED POWER LOCATION: \*NOTE ELECTRICAL CONTRACTOR TO SCHEDULE COORDINATION MEETING WITH ARCHITECT TO VERIFY HARDWIRE LOCATION FOR POWER INTEGRATED CASEWORK/FURNITURE
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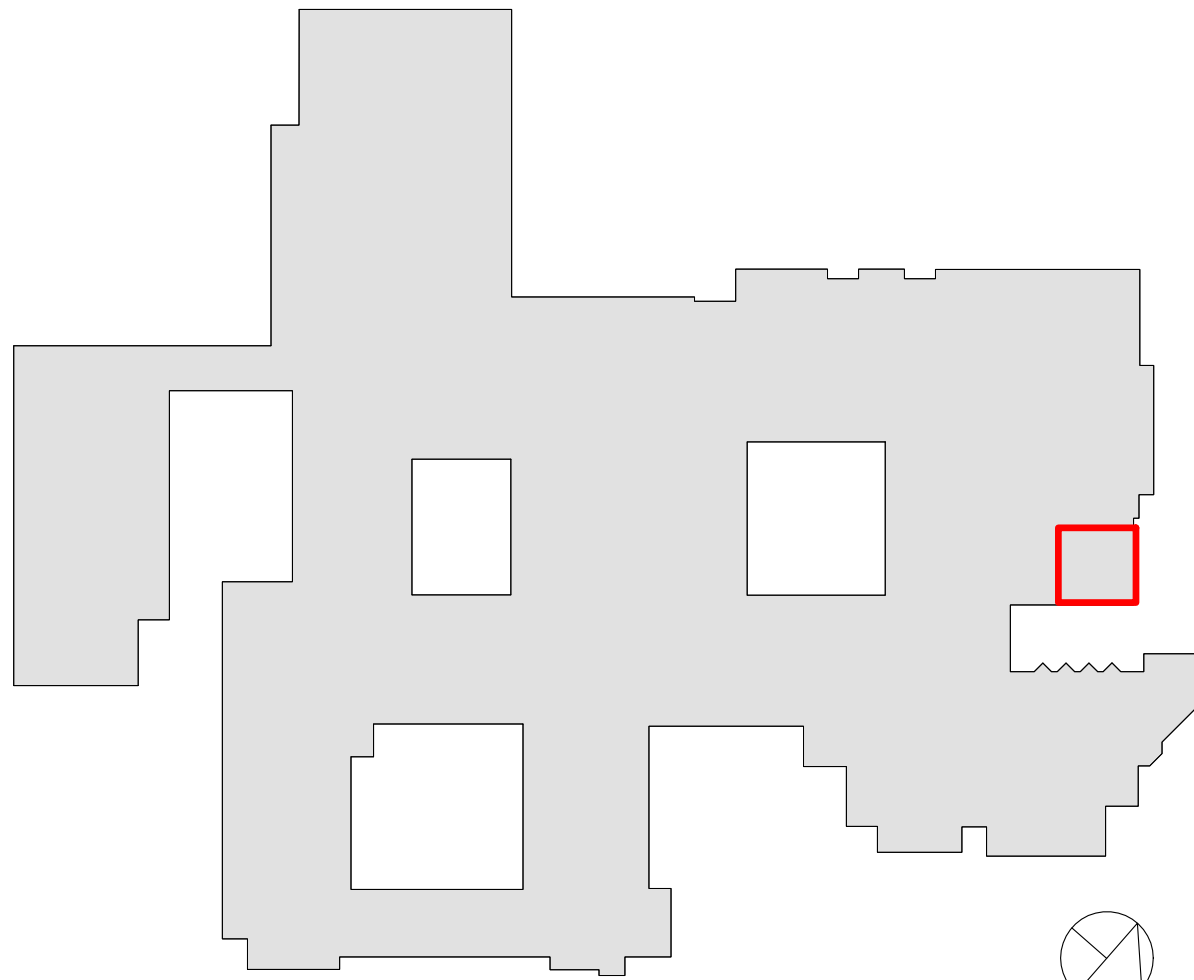


Middle School iLab Power and Technology Plan - Alternate

SCALE: 1/4" = 1'-0"

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RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'

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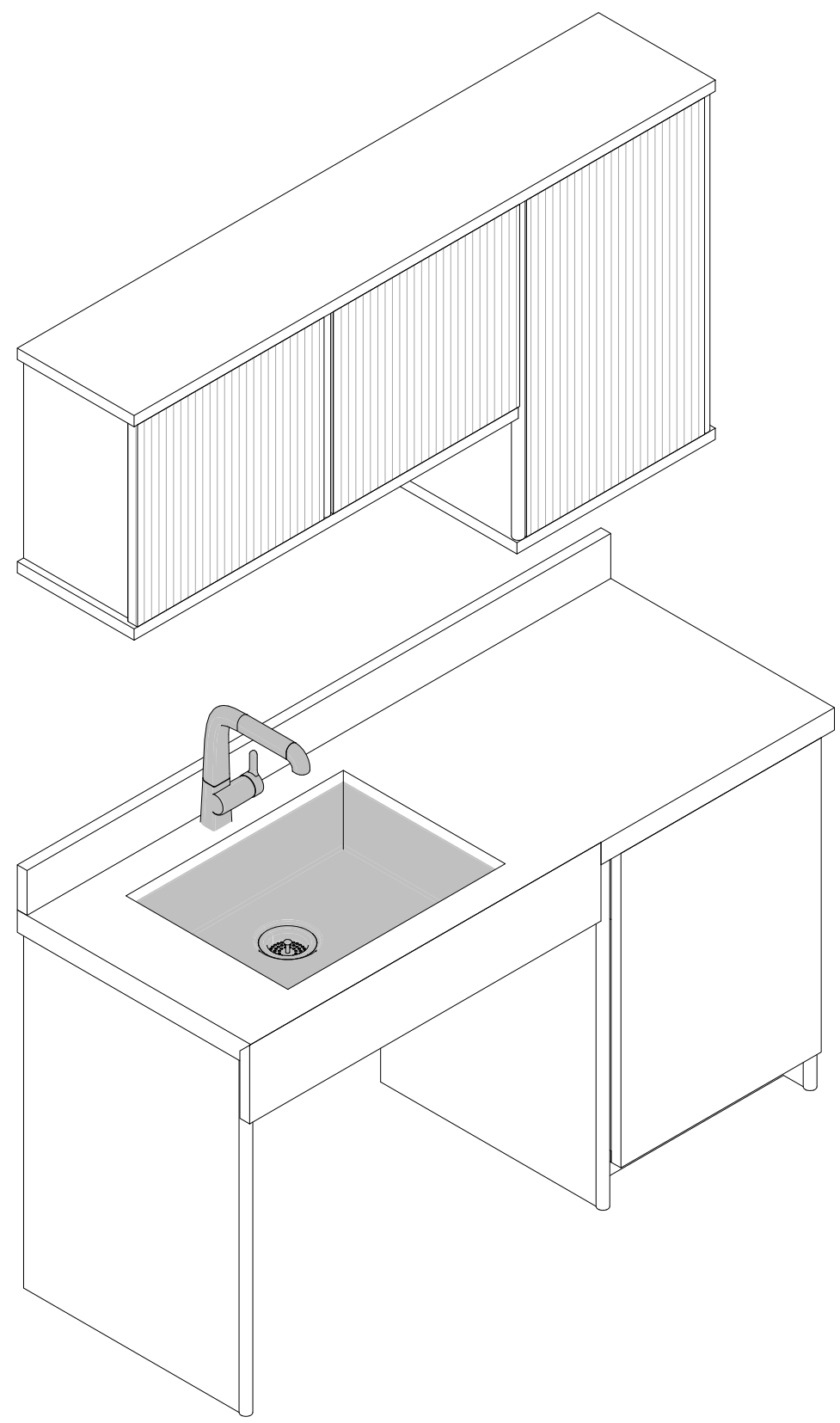
PROJECT

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MS i-LAB POWER AND TECHNOLOGY PLAN - ALTERNATE

PROJECT 2A

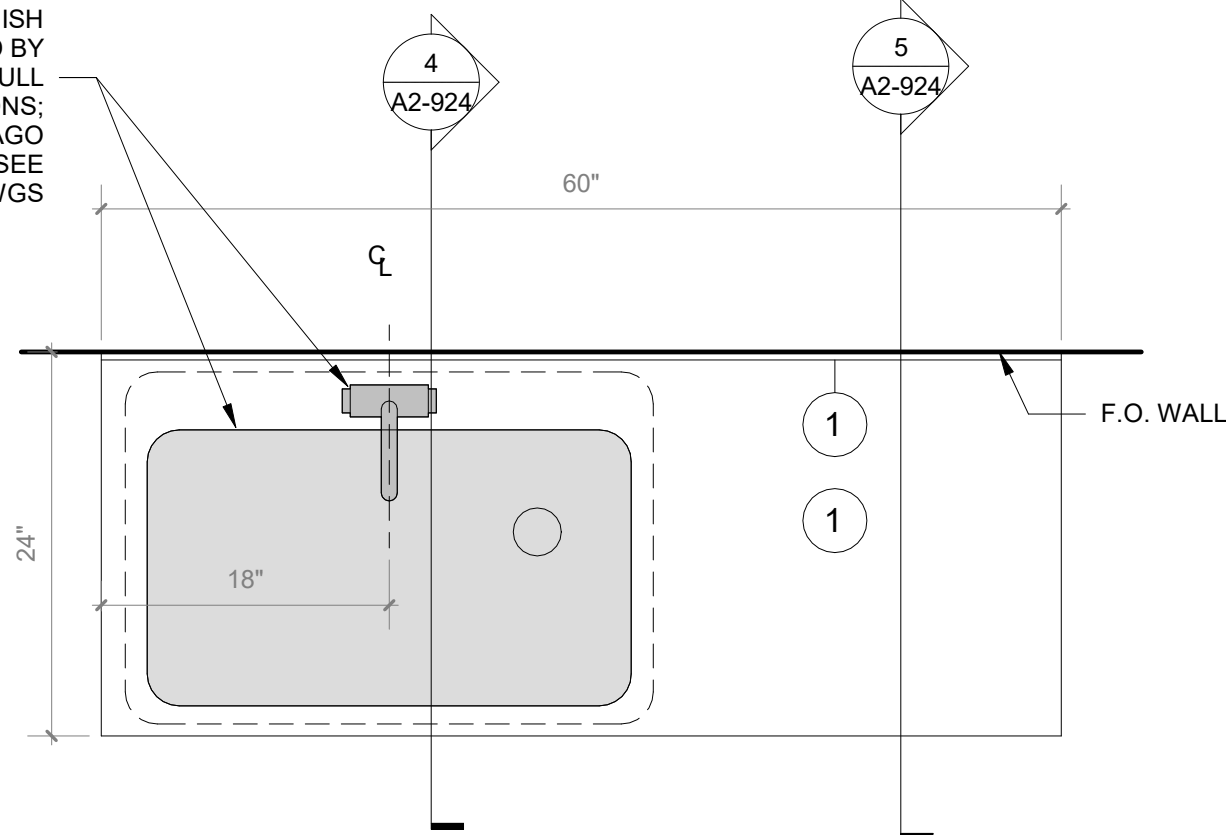
SEAL & SIGNATURE DATE: 02/10/21  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-523A



1 Sink Base cabinet - Axon

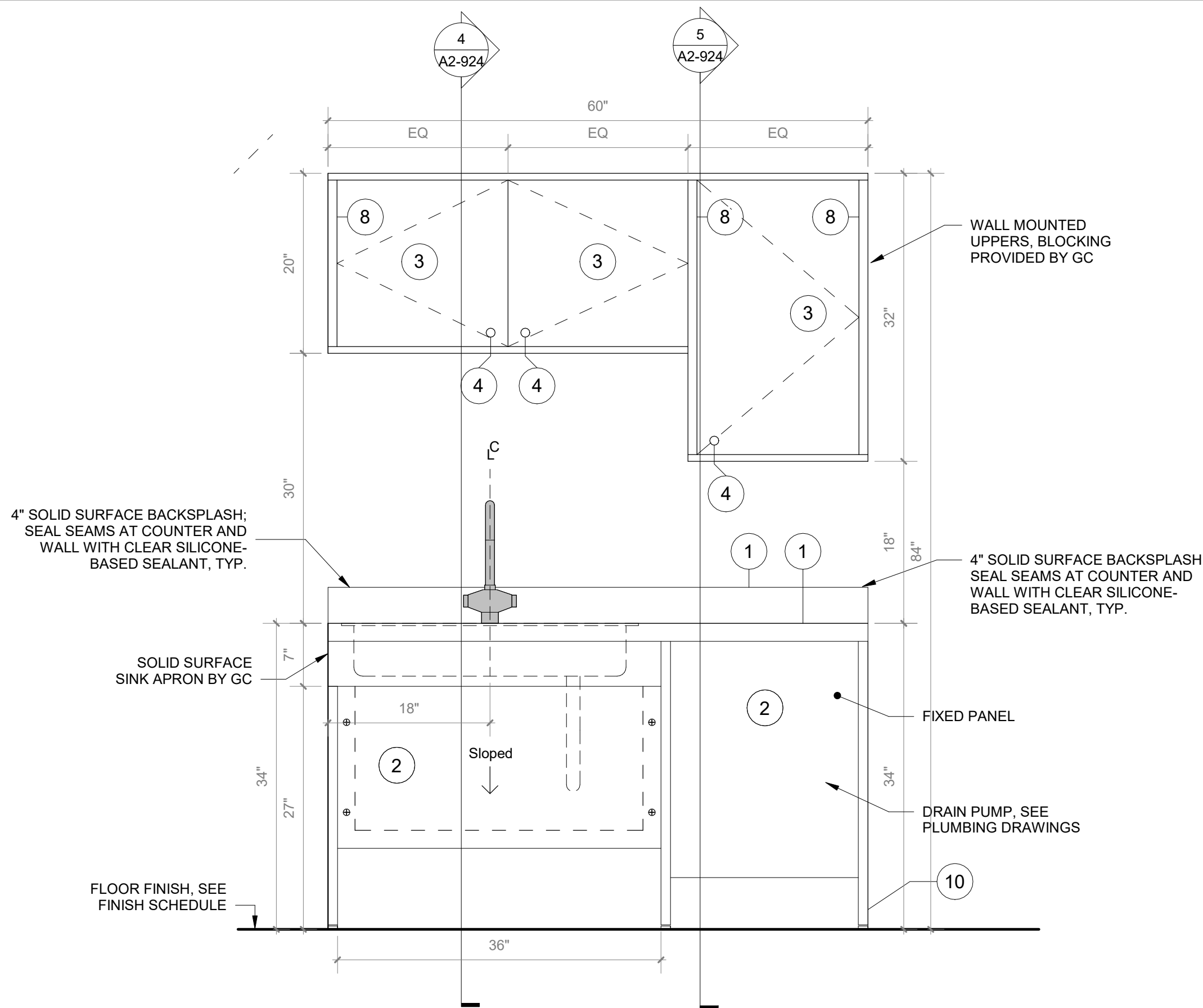
SCALE: 1" = 1'-0"  
PROJECT 2

FAUCET AND UNDERMOUNT SINK BY PC. SINK TO BE KOHLER K-66895U CAST IRON FINISH (COLOR TO BE SELECTED BY ARCHITECT FROM MFG'S FULL RANGE OF COLOR OPTIONS). FAUCET TO BE CHICAGO FAUCETS 50-E2805-SABCP. SEE PLUMBING DWGS.



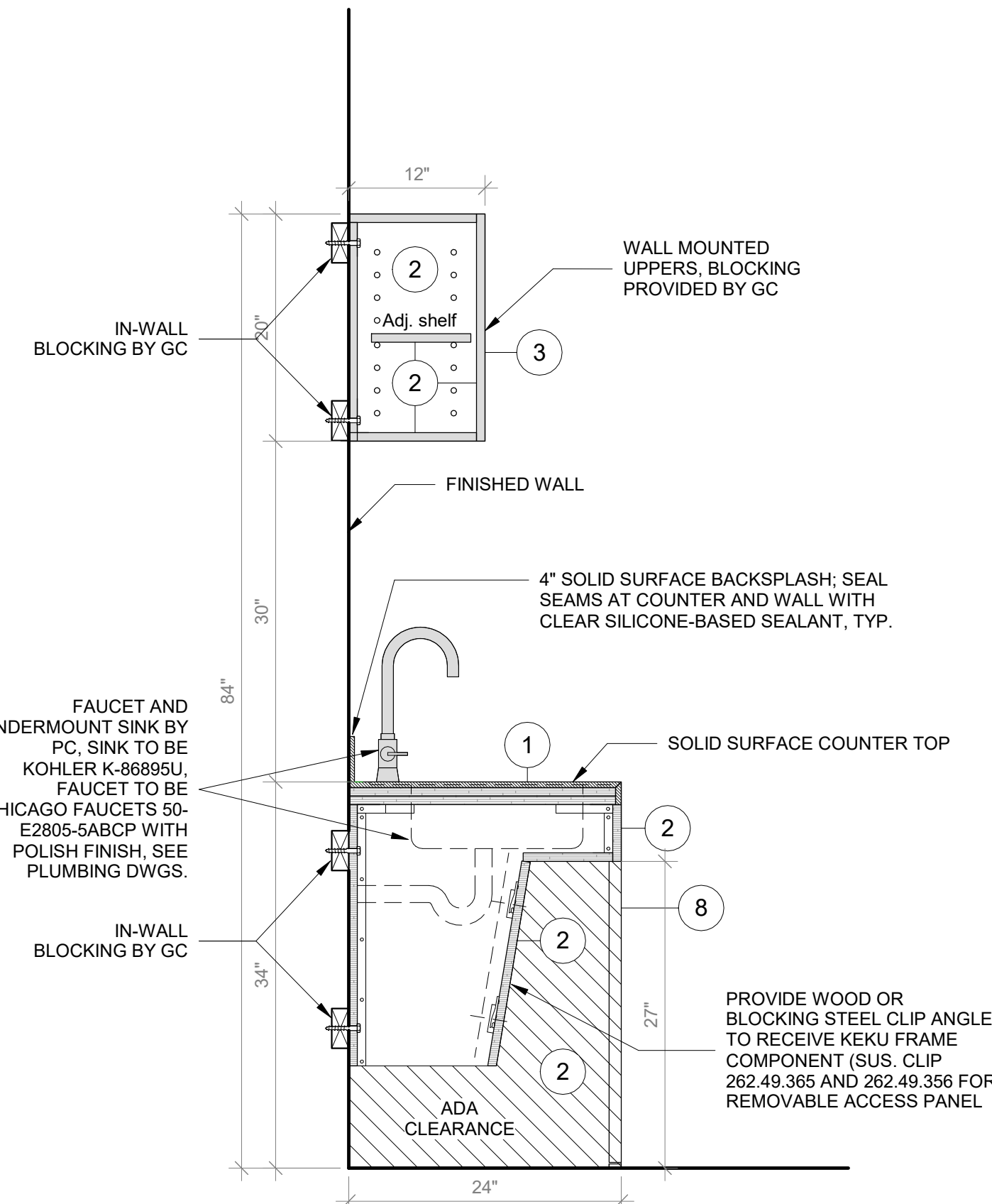
2 Sink Base Cabinet - Floor Plan

SCALE: 1" = 1'-0"  
PROJECT 2



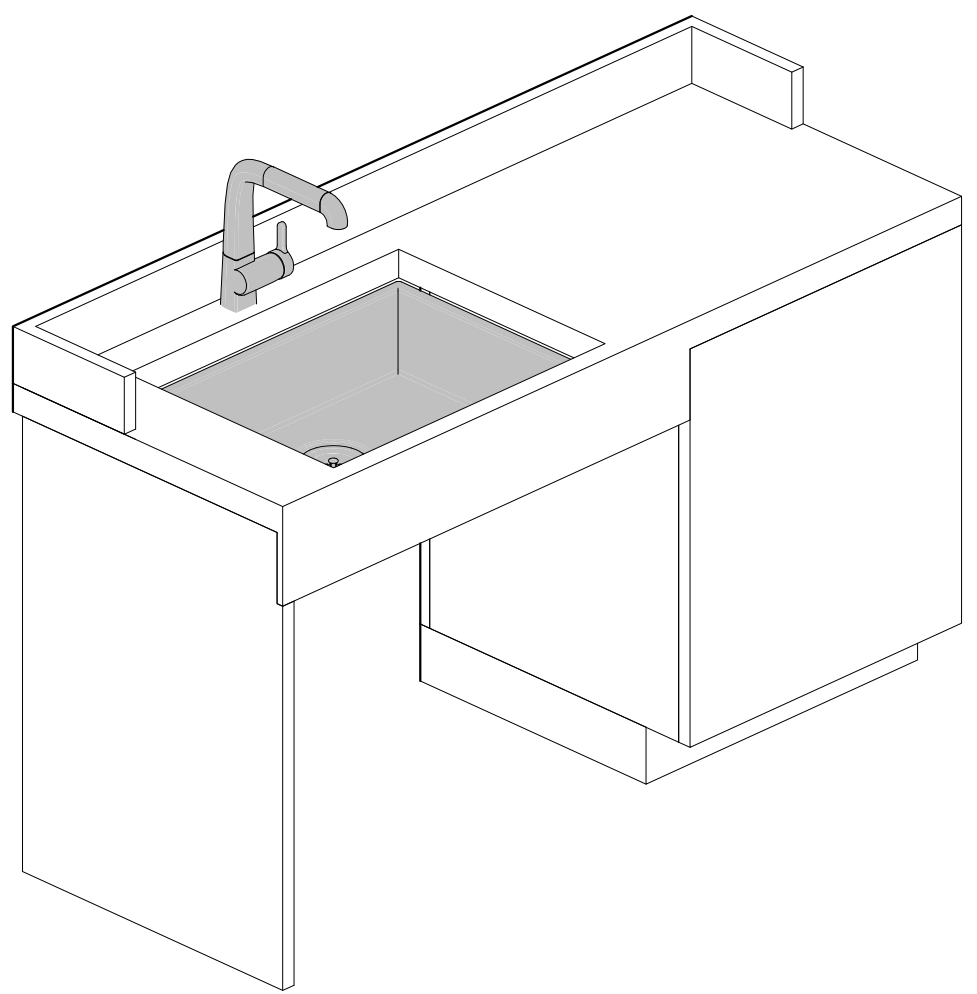
3 MS i-Lab Sink Base Cabinet - Front View

SCALE: 1" = 1'-0"  
PROJECT 2



4 MS i-Lab Sink Base Cabinet -Section A

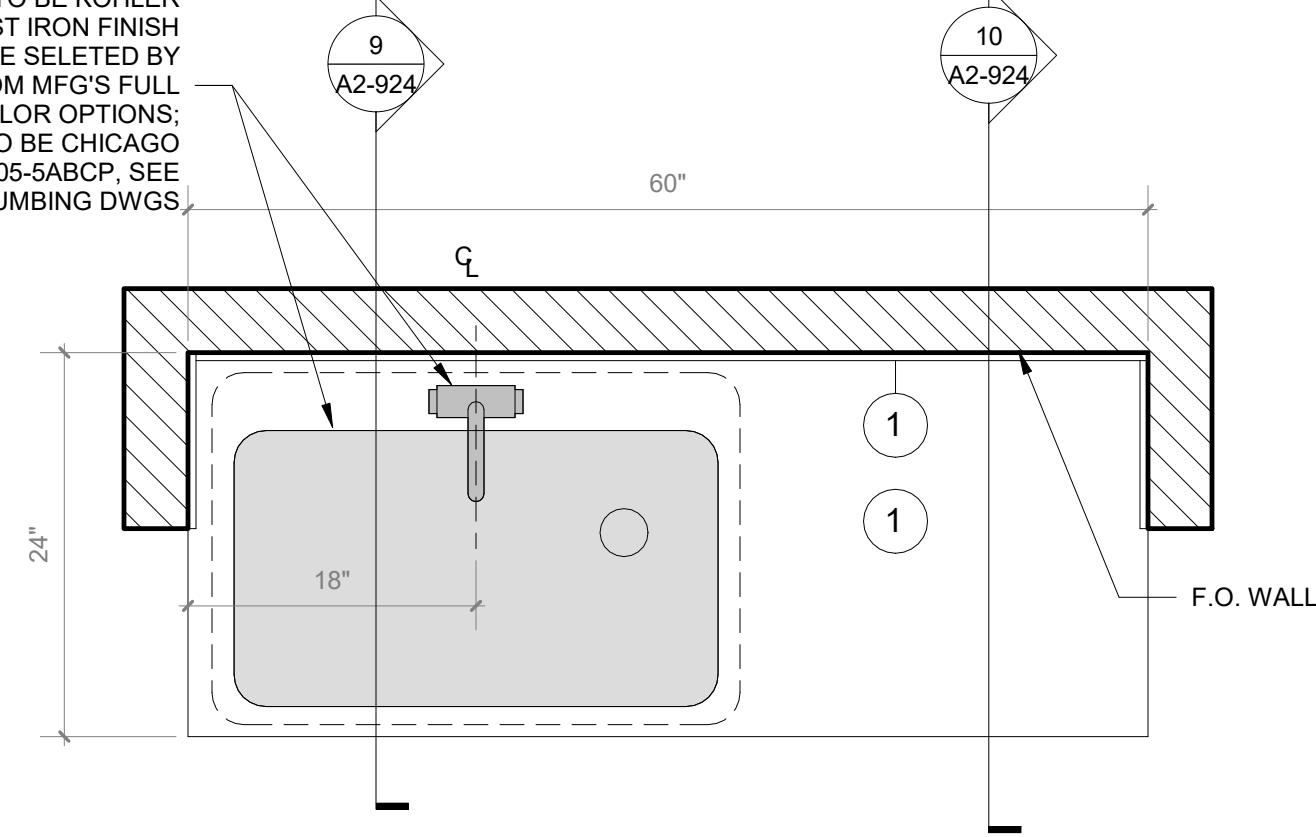
SCALE: 1" = 1'-0"  
PROJECT 2



6 Third Floor Sink cabinet - Axon

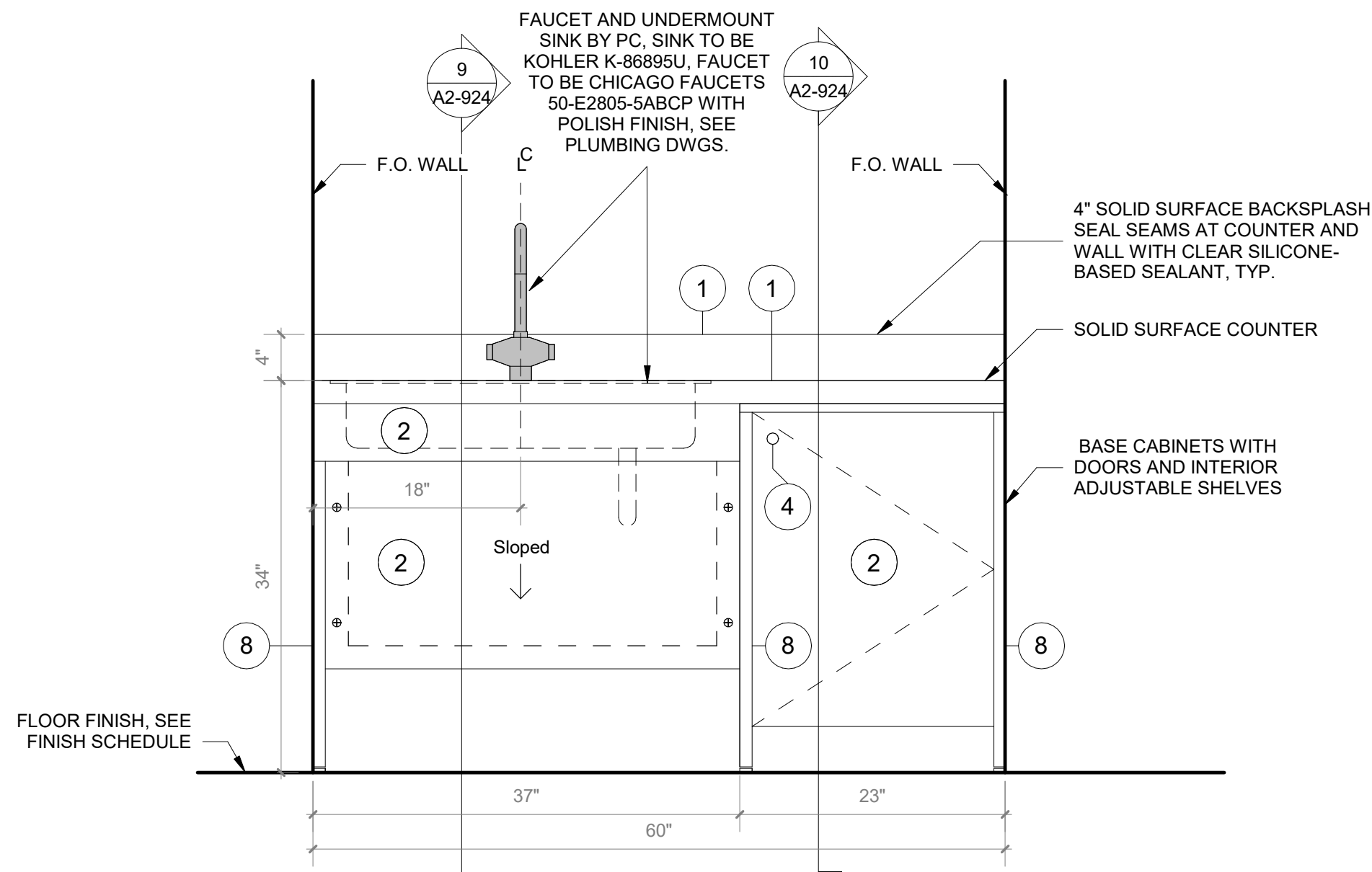
SCALE: 1" = 1'-0"  
PROJECT 3

FAUCET AND UNDERMOUNT SINK BY PC. SINK TO BE KOHLER K-66895U CAST IRON FINISH (COLOR TO BE SELECTED BY ARCHITECT FROM MFG'S FULL RANGE OF COLOR OPTIONS). FAUCET TO BE CHICAGO FAUCETS 50-E2805-SABCP. SEE PLUMBING DWGS.



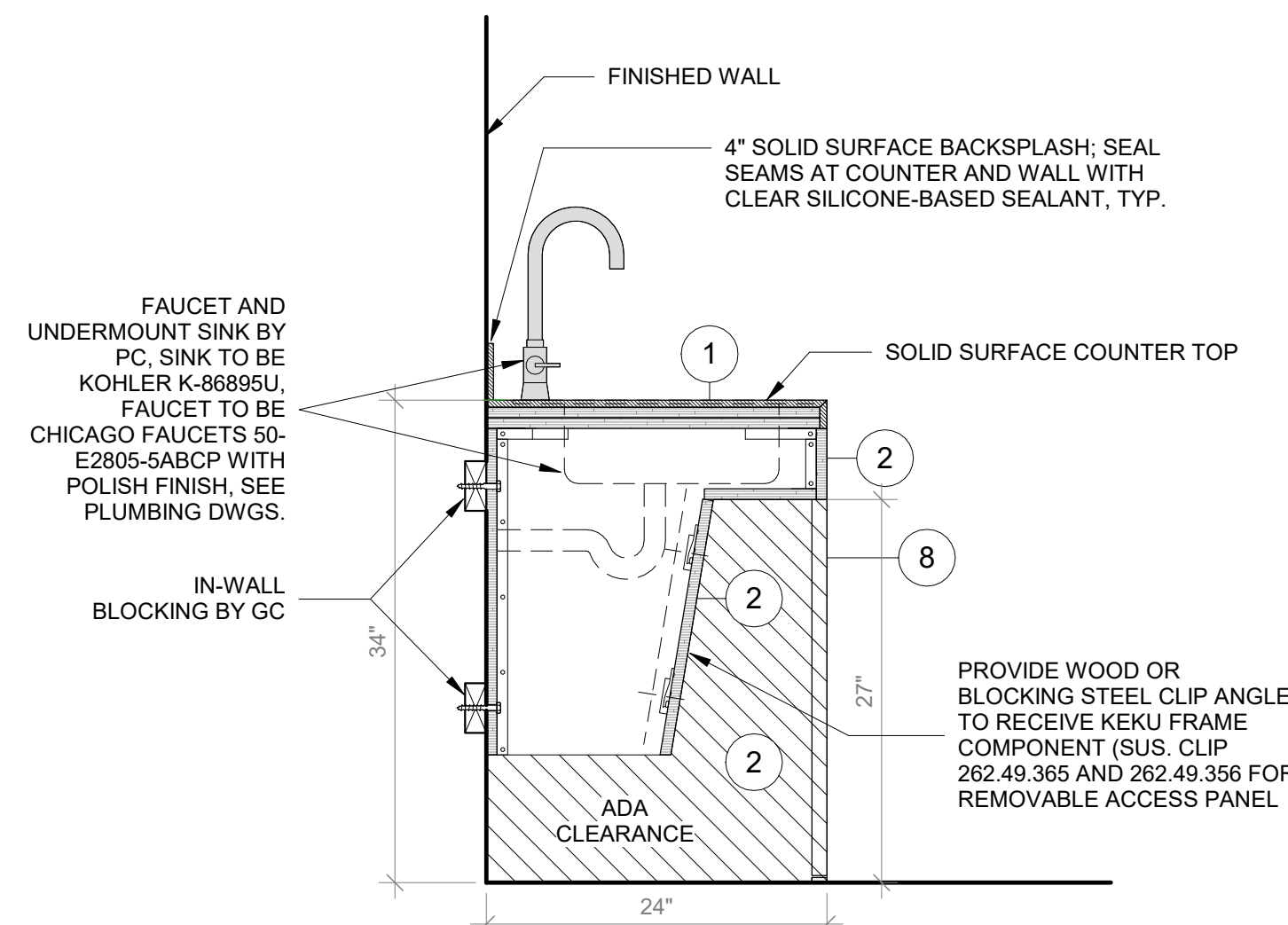
7 Third Floor Sink - Floor Plan

SCALE: 1" = 1'-0"  
PROJECT 3



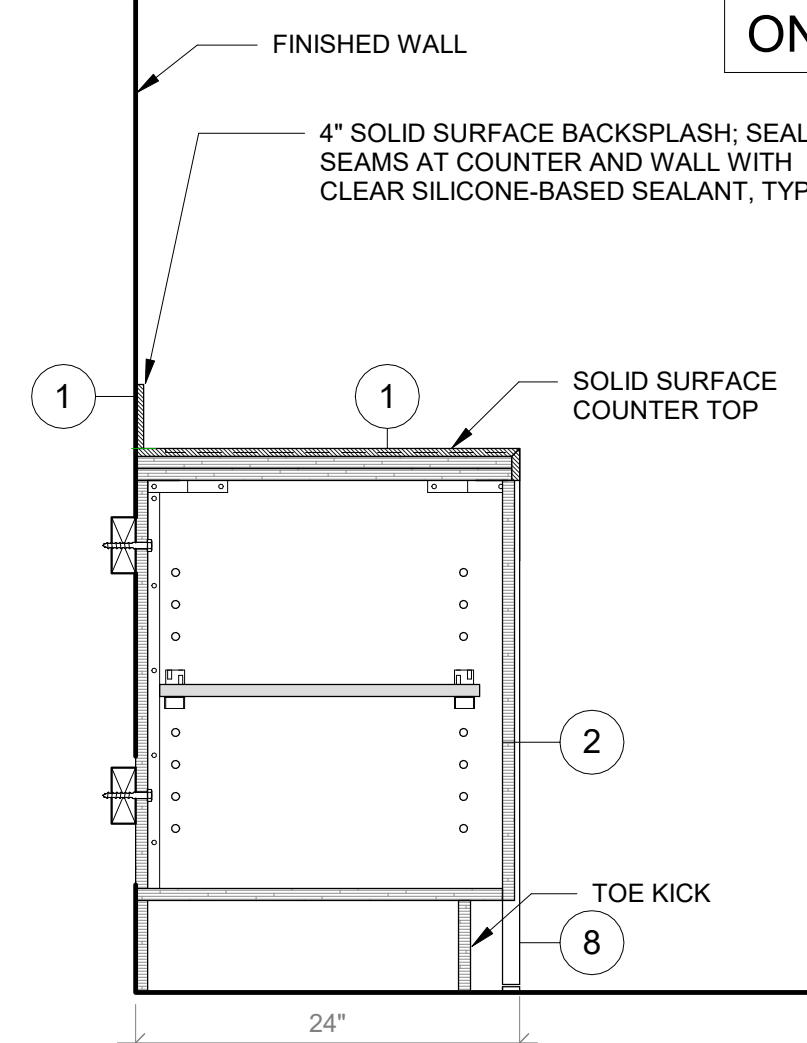
8 Sink Base Cabinet - Typ. Front View

SCALE: 1" = 1'-0"  
PROJECT 3



9 Sink Base Cabinet -Typ. Section A

SCALE: 1" = 1'-0"  
PROJECT 3



10 Sink Base Cabinet - Typ. Section B

SCALE: 1" = 1'-0"  
PROJECT 3

NOTE:

BY OWNER. THIS DRAWING IS FOR COORDINATION PURPOSES ONLY

GENERAL NOTES:

- GC TO PROVIDE BLOCKING FOR OWNER-SUPPLIED CASEGOODS BY CASEWORK CONTRACTOR UNDER SEPARATE CONTRACT. DRAWINGS IN 900 SERIES AND ON THIS SHEET PROVIDED IN GC DRAWING SET FOR COORDINATION PURPOSES ONLY.
- GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECT TO OBTAIN SHOP DRAWINGS AND TEMPLATES FROM CASEGOODS CONTRACTOR AND HOLD DIMENSIONS AS NOTED FOR EACH ITEM
- CASEGOODS CONTRACTOR TO PROVIDE STAMPED SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO BUILDING ANY PART OF CUSTOM FURNISHINGS.

CASEGOODS AND CUSTOM FURNISHINGS FINISH NOTES:

- SS-2 - CORIAN SOLID SURFACE AT COUNTERTOP AND BACKSPLASH. COLOR: SILVER BIRCH.
- PLYFF-1 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH CLEAR, NON-YELLOWING UV FINISH. EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
- PLYFF-2 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH WILSONART 1573 MARKERBOARD FROSTY WHITE PLASTIC LAMINATE ON TAG SIDE. CLEAR, NON-YELLOWING UV FINISH ON OPPOSITE SIDE. EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL.
- 1" DIA. CUTOUT DOOR FINGER PULL.
- SURFACE-RECESSED OUTLET: ECA COVE LG DUPLEX WITH DAISY CHAIN. MODEL: COV-LG-2U-4-1-S.
- UNDERMOUNT OUTLET: ECA SANDBAR WITH DATA JACKS AND DAISY CHAIN. MODEL: 84 SBS-S-1111.
- CORD DROP CUTOUT.
- VERTICAL SUPPORT AND PIPE HINGE: 1 1/16" OD ALUMINUM TUBING. BRUSHED CLEAR ANODIZED.
- METALLIC PERFORATED PANEL.
- LINOLEUM BY FORBO IN SHEET. COLOR TBD.
11. WM - LED TAPE LIGHTING. SEE CEILING FIXTURE LEGEND.

Revision Schedule		
No.	Description	Date
1	SED SUBMISSION	09/15/2020
3	ISSUED FOR BID	01/19/2021
6	Casework ISSUED FOR BID	02/09/2021
7	BID ADDENDUM #3	02/11/2021

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Providence, RI  
401-861-3218

AV Consultant  
CAVANAUGH TOCCI  
327 F Boston Post Road  
Sudbury, MA 01776-3027  
978-443-8771

SED #: 6618-0001-0005-032

PROJECT

Rye City School District  
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle School

1 Parsons Street, Rye, New York 10580

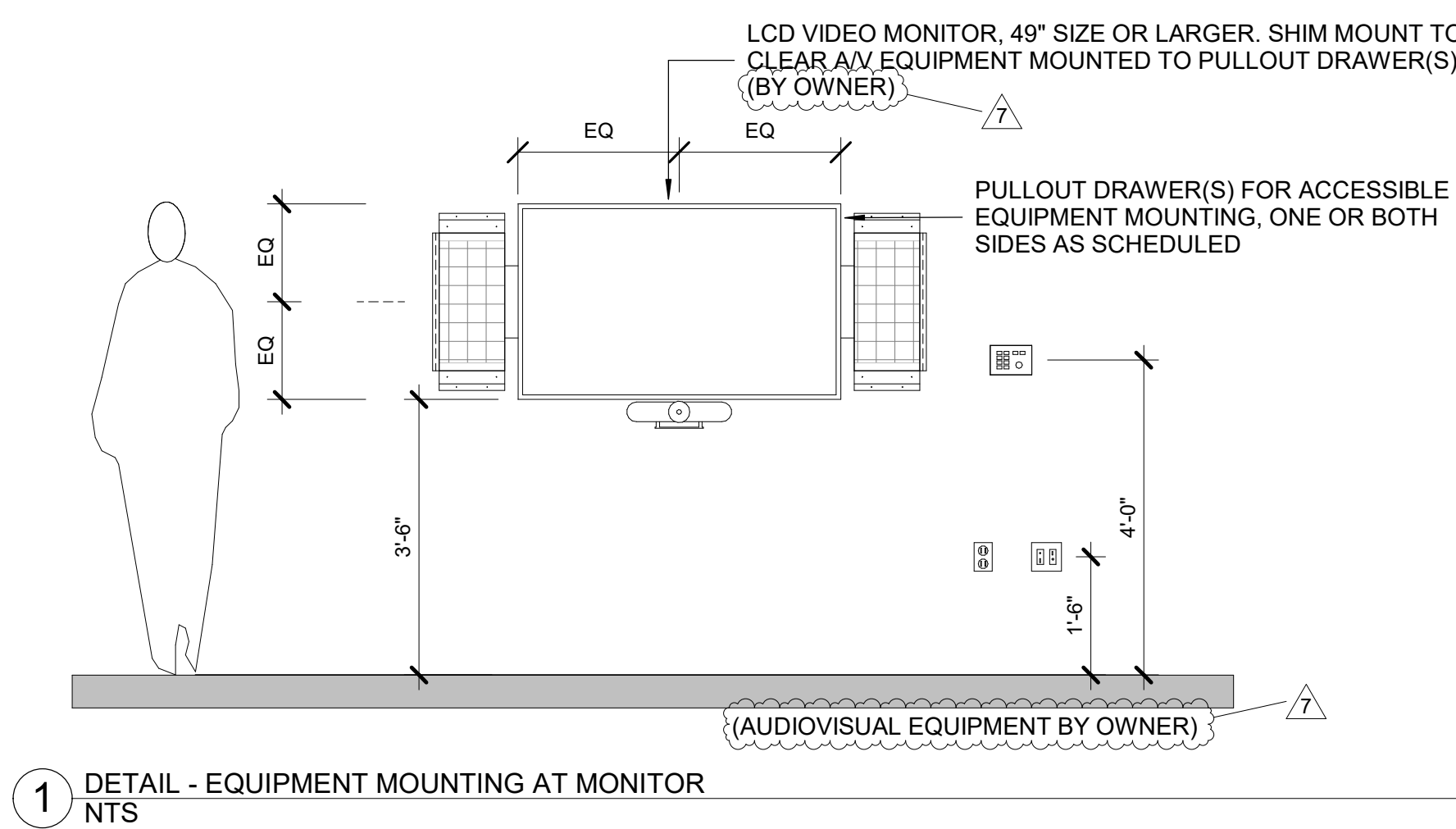
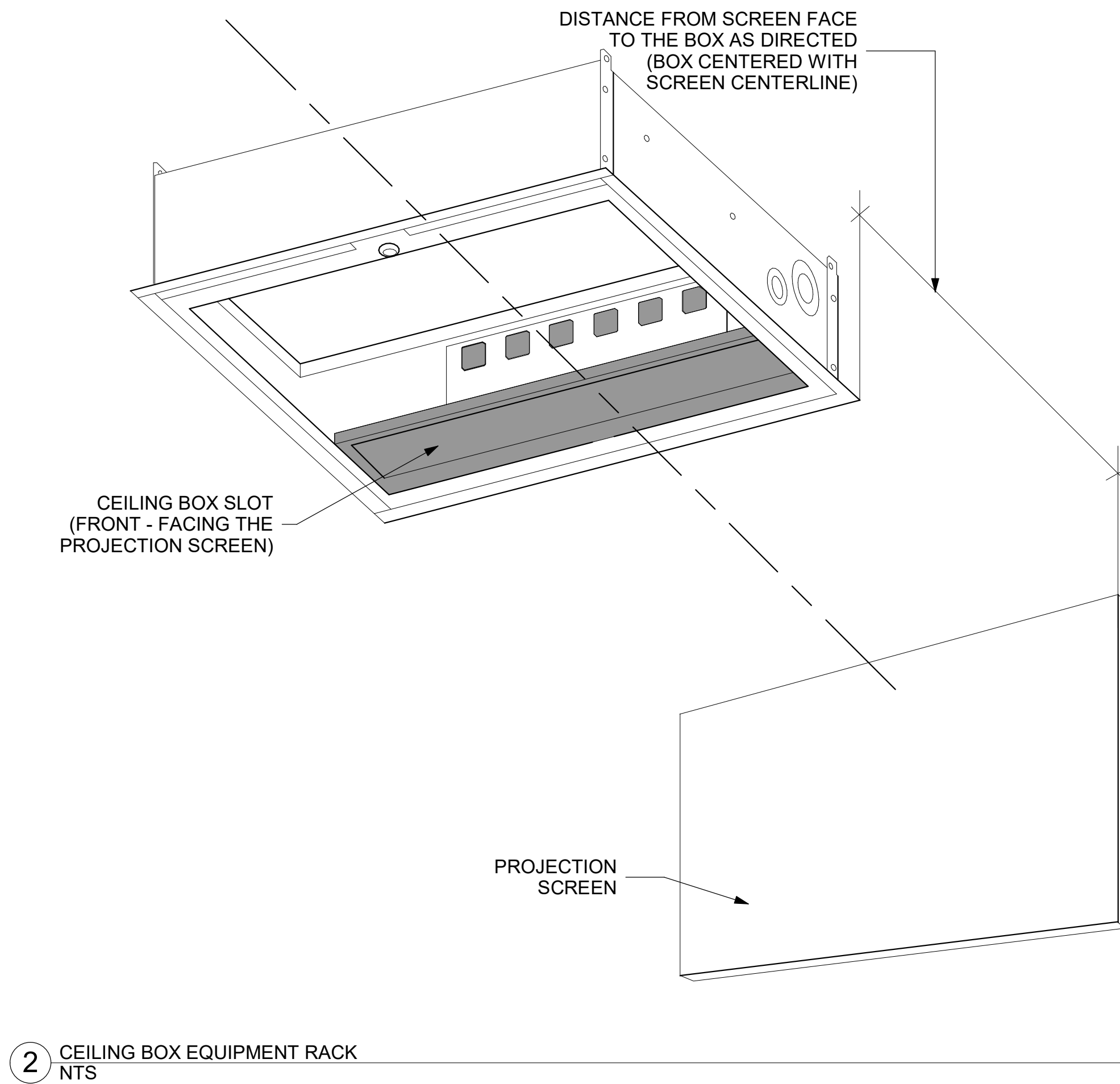
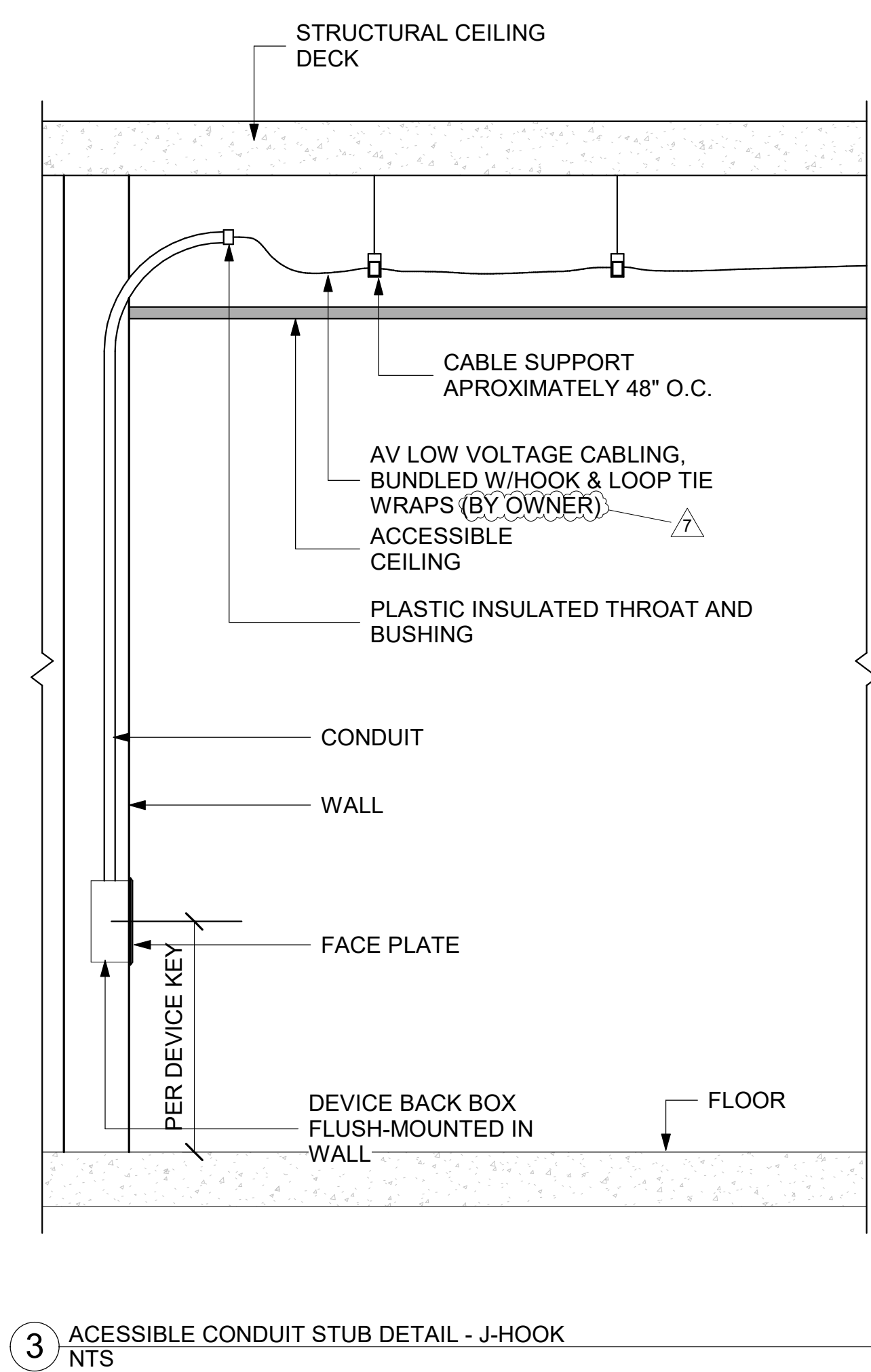
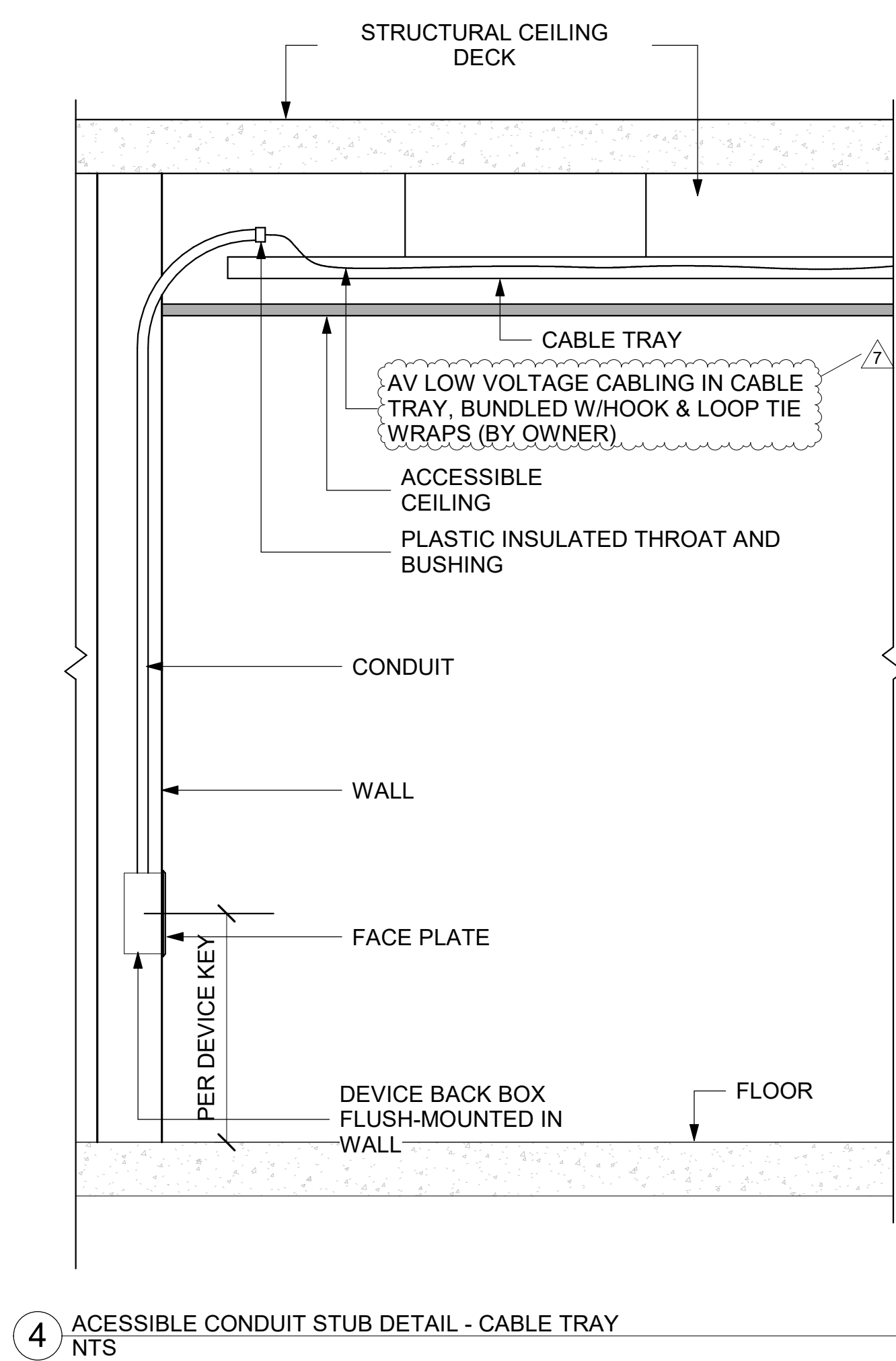
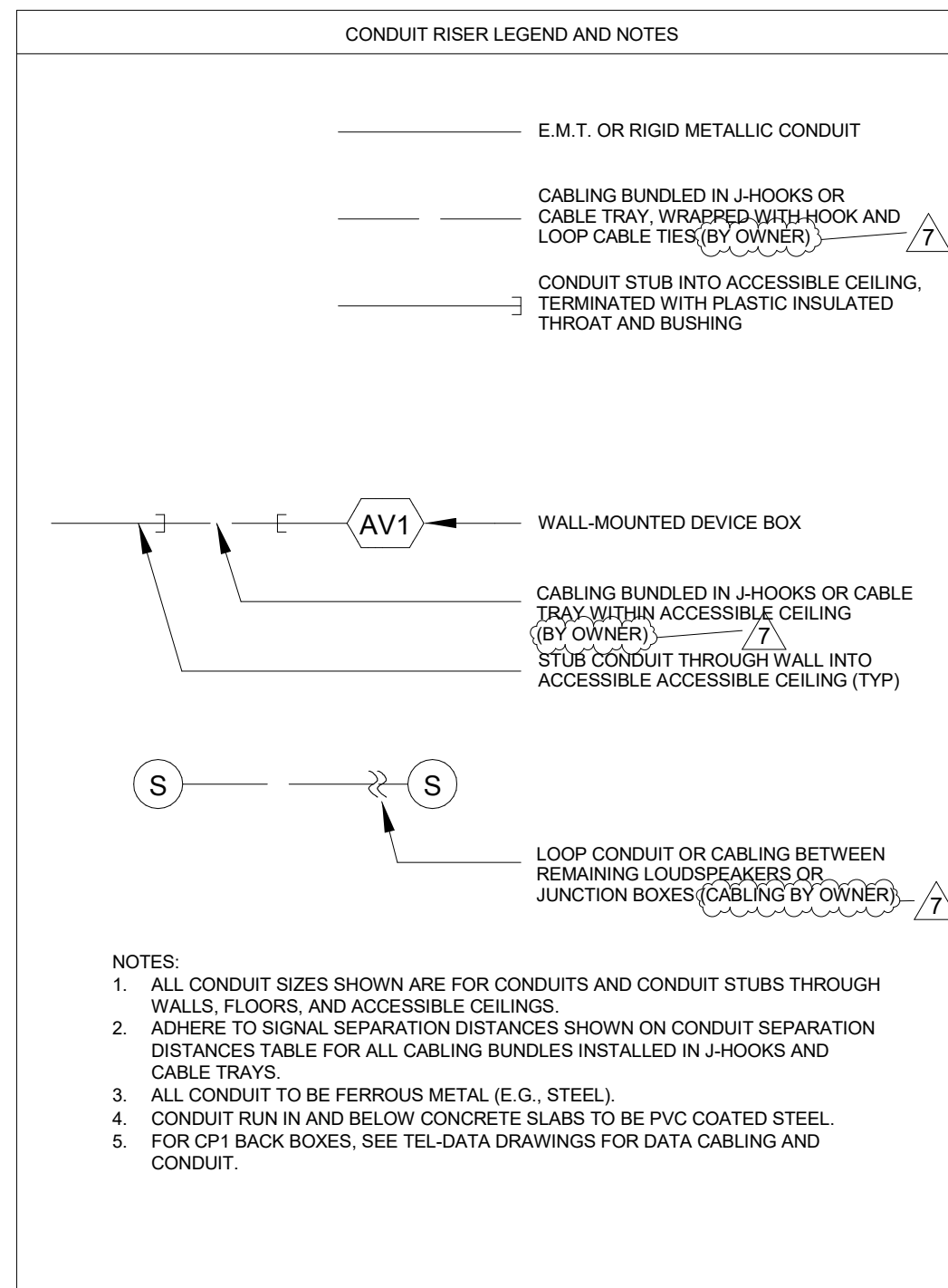
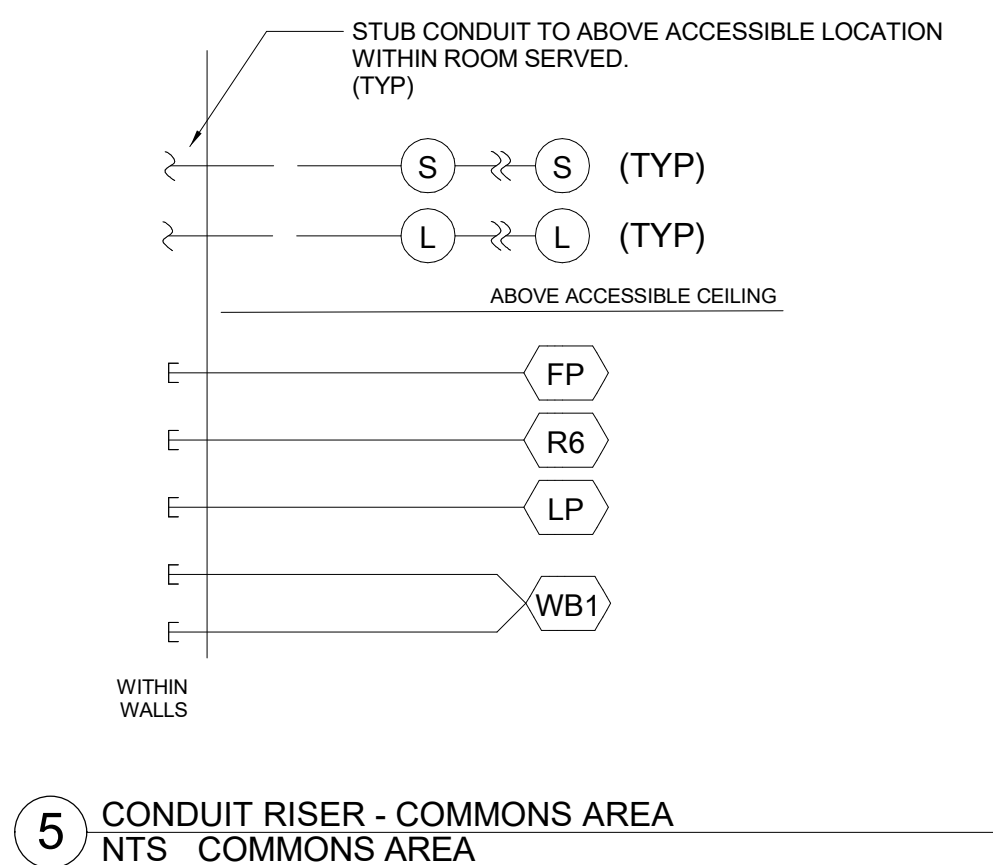
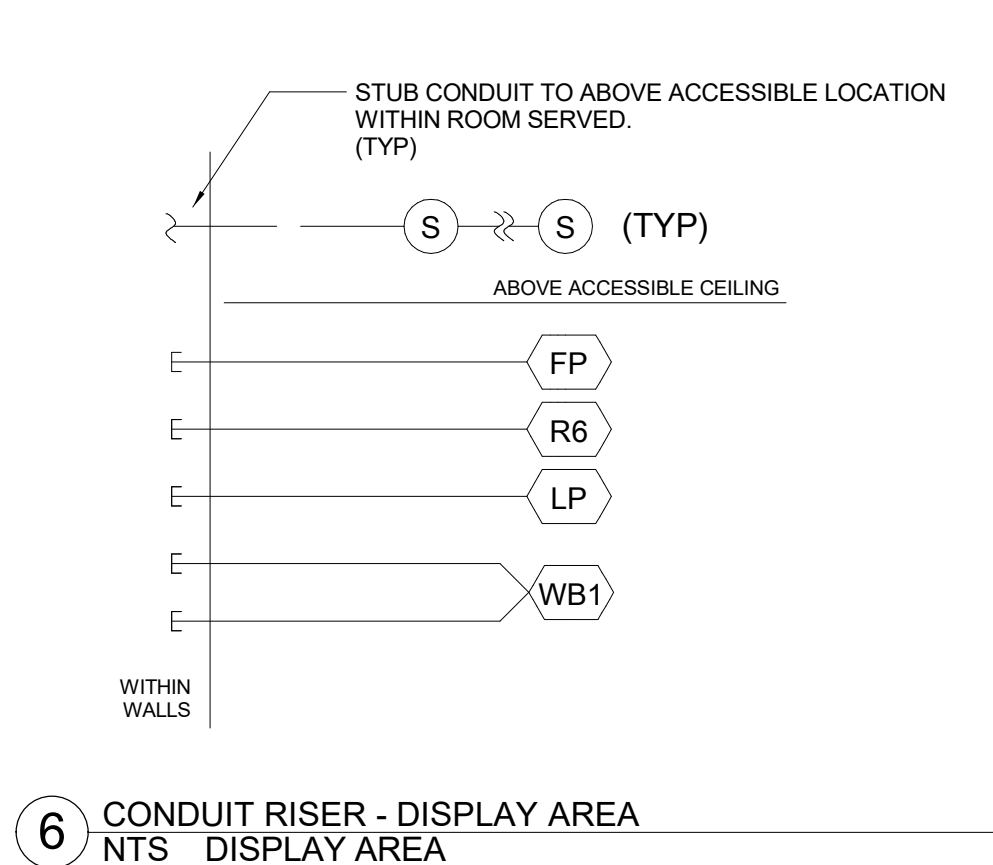
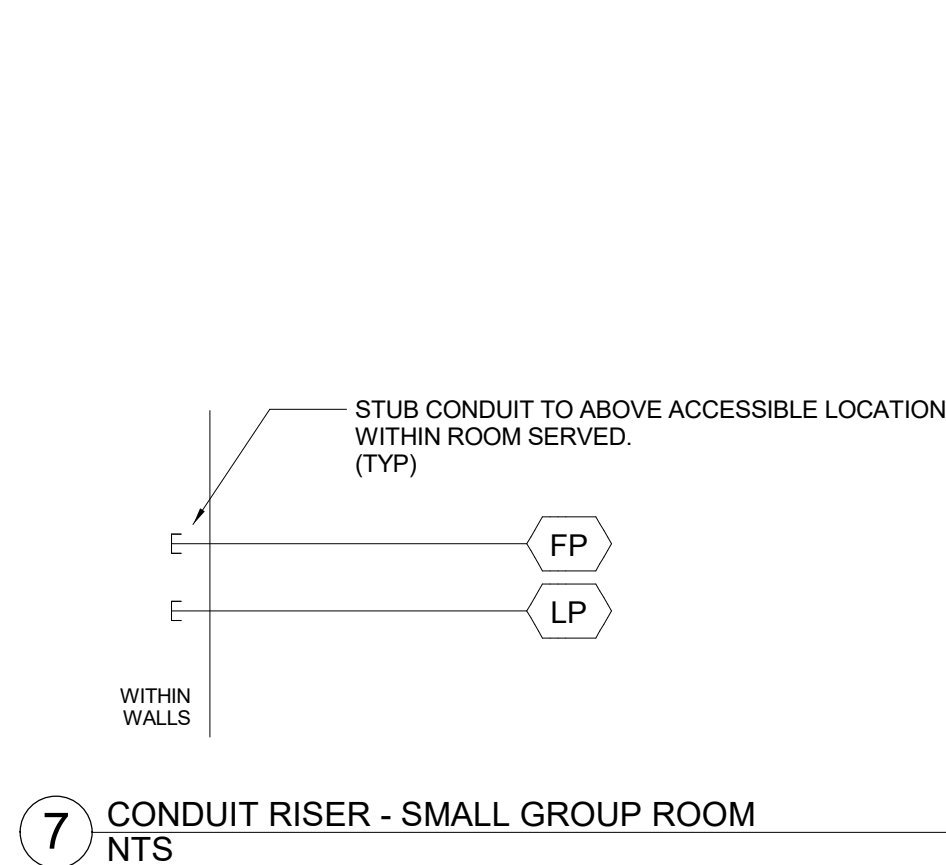
FURNITURE DETAIL - MS iLAB - SINK BASE

PROJECT 2 & 3

SEAL & SIGNATURE: DATE: 08/18/20  
PROJECT No: 9200  
DRAWING BY: Author  
CHK BY: Checker  
DWG No: A2-924

AUDIOVISUAL DEVICE KEY				
DEVICE	DESCRIPTION	BACK BOX DESCRIPTION	MOUNTING HEIGHT ADVICE	COMMENTS
FP	FLAT PANEL DISPLAY	LARGE IN-WALL JUNCTION BOX WITH FLANGE	DIRECTED BY ARCHITECT	
L	COLUMN LOUDSPEAKER	SINGLE-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	AT LOUDSPEAKER LOCATION	
LP	LAPTOP CONNECTION	TWO-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL 18" AFF	
R6	TOUCH CONTROL PANEL	SINGLE-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL AT STANDARD SWITCH HEIGHT. ORIENT BOX WITH LONG DIMENSION HORIZONTAL.	
S	CEILING LOUDSPEAKER	CEILING LOUDSPEAKER ENCLOSURE	FLUSH MOUNTED IN CEILING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	
WB1	AV CONNECTION PLATE	FOUR-GANG 3-5/8" DEEP STANDARD DEVICE BOX WITH SCREW COVER	FLUSH MOUNTED IN WALL 18" AFF	

<div style="text-align: center;"> <b><u>AUDIOVISUAL SHEET LIST</u></b> </div>	
SHEET NUMBER	SHEET NAME
AVE2-001	AUDIOVISUAL KEYS, NOTES AND SCHEDULES
AVE2-101	AUDIOVISUAL PLAN - THIRD FLOOR
AVE2-102	AUDIOVISUAL PLAN - iLAB
AVE2-111	AUDIOVISUAL RCP - THIRD FLOOR
AVE2-112	AUDIOVISUAL RCP - iLAB
AVE2-201	HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - THIRD FLOOR
AVE2-202	HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - iLAB













## ELECTRICAL NOTES

1. ALL CONDUIT TO BE STEEL EMT (ELECTRICAL METALLIC TUBING) EXCEPT AS NOTED.
2. ALL CONDUIT 3/4" UNLESS OTHERWISE NOTED.
3. 70-VOLT LOUDSPEAKER WIRING IN ACCESSIBLE CEILINGS CAN BE RUN OUTSIDE OF CONDUIT WITH CABLE SUPPORTS.
4. CONDUIT RUN IN AND BELOW CONCRETE SLABS ON GRADE TO BE PVC COATED STEEL.
5. ALL CONDUIT TO BE HOME RUNS TO JUNCTION BOXES UNLESS OTHERWISE NOTED.
6. INTERMEDIATE MARSHALLING BOXES FOR THE GROUPING OF HOME RUN CONDUITS BY CONDUIT GROUP ARE ACCEPTABLE. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONDUIT CAPACITY AND PULL BOX SIZE. USE 30% FILL FOR CONDUIT SIZE CALCULATIONS.
7. FOR FISH-MOUNT GANG BOXES USE RACO 3-1/2" DEEP STEEL BACK BOXES OR EQUAL.
8. FOR SURFACE- AND PIPE-MOUNTED GANG BOXES USE FSR SMMWB, LEVITON BKBOX SERIES SURFACE MOUNT POWDER-COATED STEEL BOX OR EQUAL BY ELECTRONIC THEATRE CONTROLS.
9. USE SEPARATE STEEL CONDUITS FOR MICROPHONE-LEVEL CIRCUITS (BELOW 20 DBM), LINE-LEVEL CIRCUITS (UP TO +30 DBM), LOUDSPEAKER CIRCUITS (ABOVE +30 DBM), CONTROL CIRCUITS, DATA CIRCUITS, VIDEO CIRCUITS AND POWER CIRCUITS. USE AUDIO CONDUIT THAT IS SPACED AT LEAST 12 INCHES AWAY FROM POWER CONDUIT. INSULATE ALL CONDUIT FROM THE EQUIPMENT RACK(S); GROUND CONDUIT ONLY TO POWER SYSTEM GROUND. DO NOT SPLICE LINES IN CONDUIT. CONNECT EACH INPUT RECEPTACLE BY AN INDIVIDUAL, INSULATED LINE TO THE SYSTEM EQUIPMENT RACK.
10. GROUP D CONDUITS WITH CATEGORY CABLE MAXIMUM RUN: 300 FEET.
11. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDUIT SIZE.
12. PROVIDE ALL EMPTY CONDUITS WITH PULL-STRINGS.
13. PROVIDE PULL BOX AFTER 180 DEGREES OF CONDUIT BEND.
14. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" STANDARD ELECTRICAL BACK BOXES AND FLOOR BOXES.
15. REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.

### ELECTRICAL DEVICE KEY

ELECTRICAL DEVICE NOTE:

1. 120V ELECTRICAL POWER DEVICES AND FLOOR BOXES ARE SHOWN FOR REFERENCE ONLY;
2. SUBSCRIPT AT RECEPTACLE INDICATES CIRCUIT ASSIGNMENT;
3. DO NOT SHARE CIRCUITS BETWEEN ROOMS, AND DO NOT SHARE WITH OTHER
4. WHERE CIRCUIT ASSIGNMENT IS INDICATED, FEED CIRCUITS WITHIN A ROOM FROM A COMMON PANEL AND FROM A COMMON PHASE IN THAT PANEL. WHERE SUBSCRIPT NOT SHOWN, ASSIGN CIRCUITS PER CODE REQUIREMENTS.

- |   |  |
|---|--|
|    | DUPLEX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED.        |
|    | DOUBLE DUPLEX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE INDICATED. |
|    | SINGLE NEMA TYPE L5-30 120VAC 30A TWIST-LOCK RECEPTACLE MOUNTED AT PROJECT RECEPTACLE HEIGHT, UNLESS OTHERWISE NOTED.    |
|   | DUPLEX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN CEILING.  |
|  | DOUBLE DUPLEX 120VAC 20A 5-20 RECEPTACLE FLUSH MOUNTED IN CEILING.   |
|  | SINGLE NEMA TYPE L5-30 120V 30A TWIST-LOCK RECEPTACLE MOUNTED IN CEILING.  |
|  | FLEXIBLE CONNECTION TO 120VAC SERVICE. CIRCUIT PER CODE REQUIREMENTS.  |
|  | RAISED FLOOR GROMMET FOR AUDIOVISUAL CABLE PATHWAY. SIZE AS REQUIRED   |
|  | PROJECTION SCREEN UP/ DOWN SWITCH  |
|  | 2\"  |

### AV SYSTEMS DATA DEVICE KEY

DATA DEVICE NOTE:

- 1. DATA COMMUNICATION DEVICES ARE SHOWN FOR REFERENCE ONLY. ALL STRUCTURED CABLING INCLUDING CAT 6, FIBER AND OTHER LOW VOLTAGE WIRING ARE BY OWNER
- 2. # SYMBOL INDICATE DATA CONNECTION QUALITY;
- 3. AV DRAWINGS INDICATE MINIMUM SERVICES REQUIRED TO SUPPORT AUDIOVISUAL SYSTEMS. PROVIDE ADDITIONAL SERVICES AS MAY BE REQUIRED FOR OTHER PURPOSES.

- |               |  |
|---------------|--|
| <b>#</b><br>▼ | DATA CONNECTION, CAT6 OR PROJECT STANDARD, FLUSH MOUNTED IN WALL AT STANDARD RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED.   |
| <b>#</b><br>▼ | DATA CONNECTION, CAT6 OR PROJECT STANDARD, FLUSH MOUNTED IN CEILING AT AUDIOVISUAL SYSTEM DEVICE.  |
| <b>#</b><br>C | DATA CONNECTION, CAT6 OR PROJECT STANDARD, WITHIN AUDIOVISUAL SYSTEMS DEVICE. PROVIDE 48" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR.  |
| <b>#</b><br>▼ | DATA CONNECTION, CAT6 OR PROJECT STANDARD, ON AV SYSTEMS FACEPLATE.<br>PROVIDE 18" FREE CABLE TERMINATED WITH MALE RJ45 CONNECTOR.   |
| <b>#</b><br>▼ | DATA CONNECTION, CAT6 OR PROJECT STANDARD, ON AV SYSTEMS FACEPLATE WITH RUGGEDIZED RJ45 CONNECTORS BY AV SYSTEMS CONTRACTOR. COORDINATE INSTALLATION WITH AV SYSTEMS CONTRACTOR.<br>DUPLEX FIBER OPTIC DATA UPLINK TO REMOTE NETWORK SWITCH. |

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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12 Cold Spring Street	327 F Boston Post F
Providence, RI 02906	Sudbury, MA 01776-3
401-861-3218	978-443-7871

SED #: 66180001-0005-031


PROJECT

Rye City School District  
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle  
School

1 Parsons Street, Rye, New York 10580

## AUDIOVISUAL KEYS, NOTES AND SCHEDULES

PROJECT 2 & 3			
SEAL & SIGNATURE	DATE:	2/11/20	
	PROJECT No:	92	
	DRAWING BY:	JM	
	CHK BY:	M	
	DWG No:	AVE2-001	

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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401-861-3218 978-443-7871

SED #: 66180001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle  
School

1 Parsons Street, Rye, New York 10580

AUDIOVISUAL PLAN - THIRD  
FLOOR

PROJECT 3

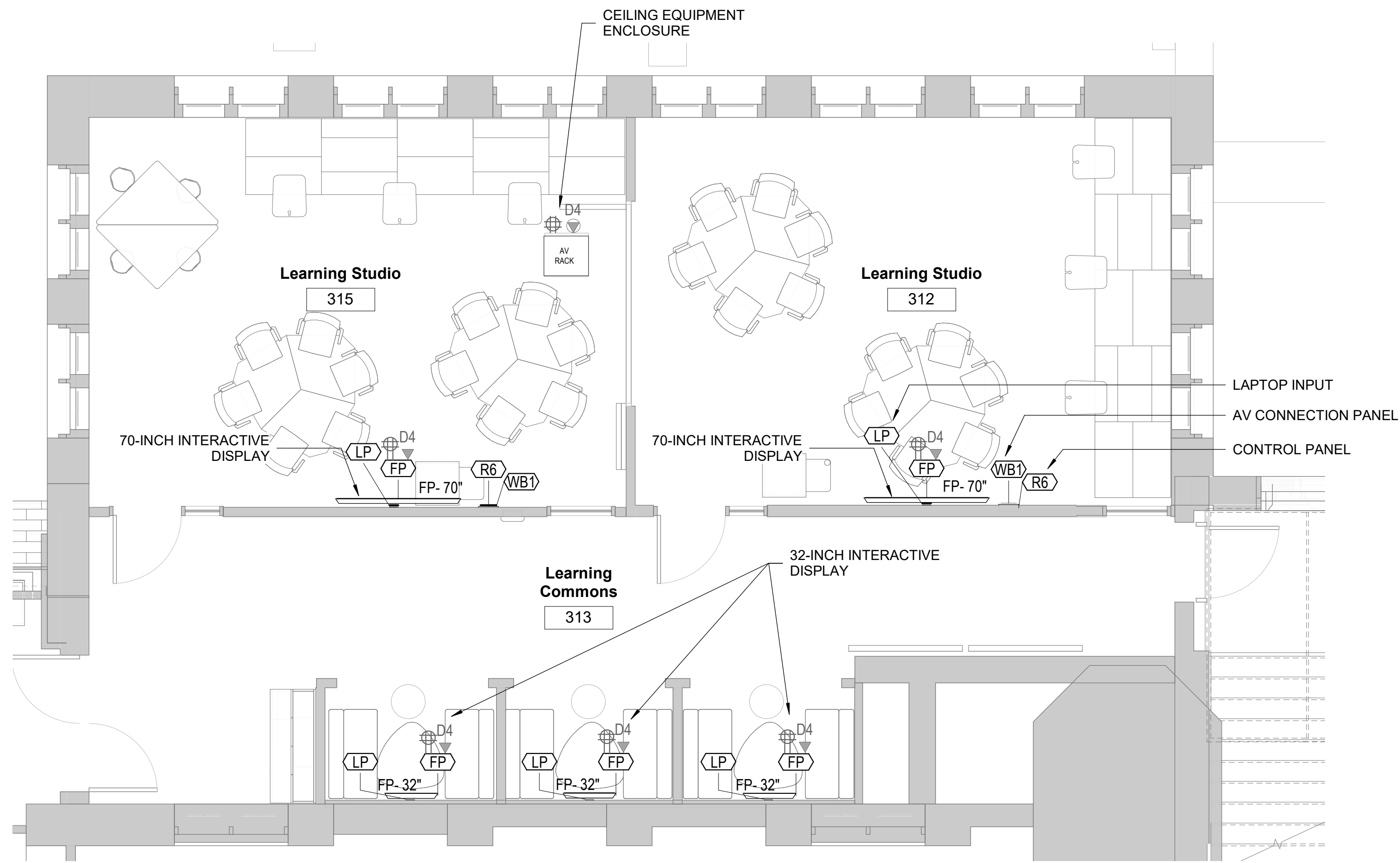
SEAL & SIGNATURE DATE: 2/11/2021

PROJECT No: 9200

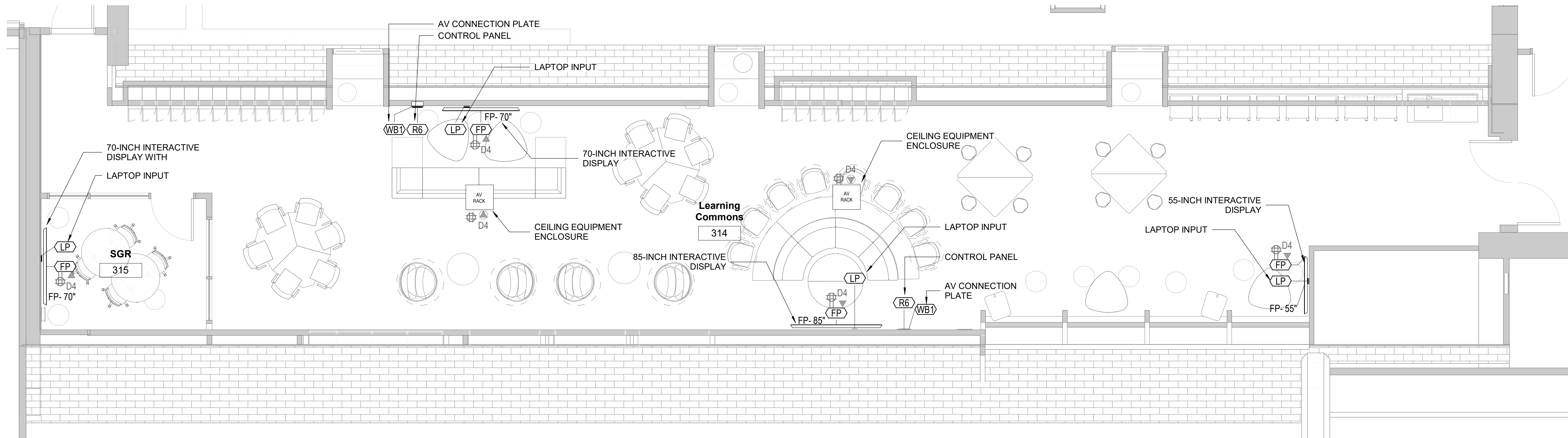
DRAWING BY: JMM

CHK BY: MJM

DWG No: AVE2-101

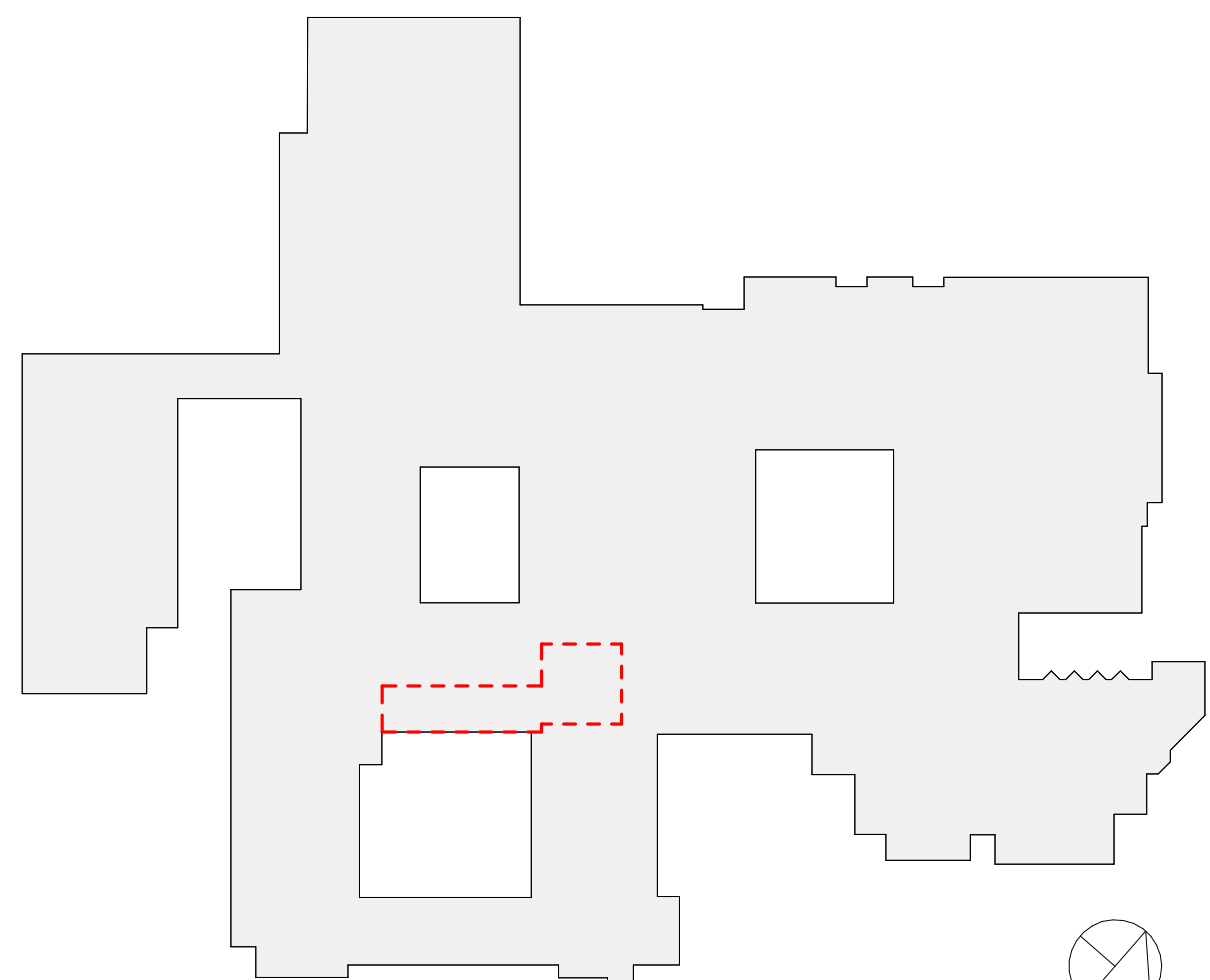


1 AUDIOVISUAL PLAN - THIRD FLOOR - STUDIO  
1/4" = 1'-0"



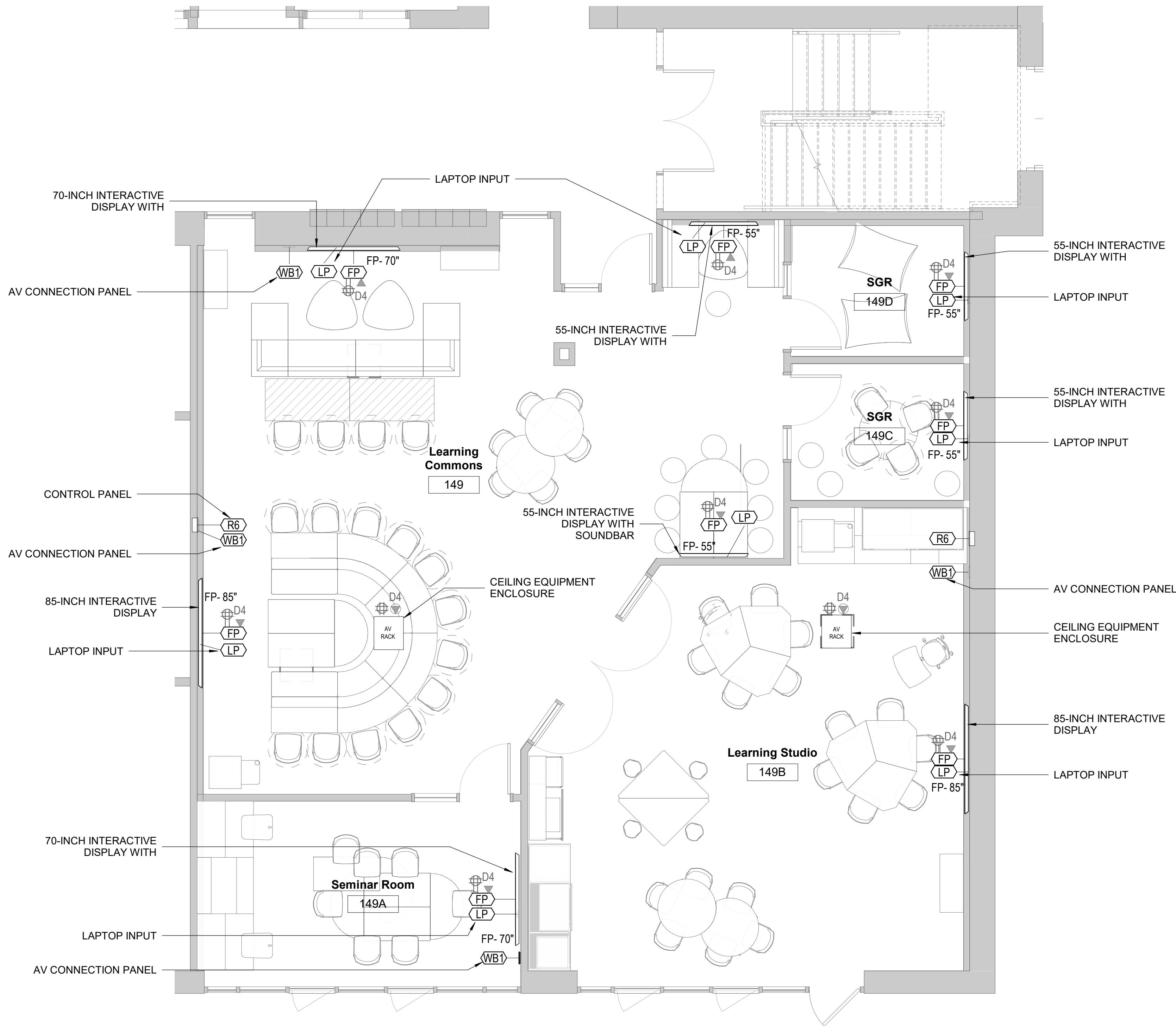
2 AUDIOVISUAL PLAN - THIRD FLOOR - COMMONS  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION  
SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



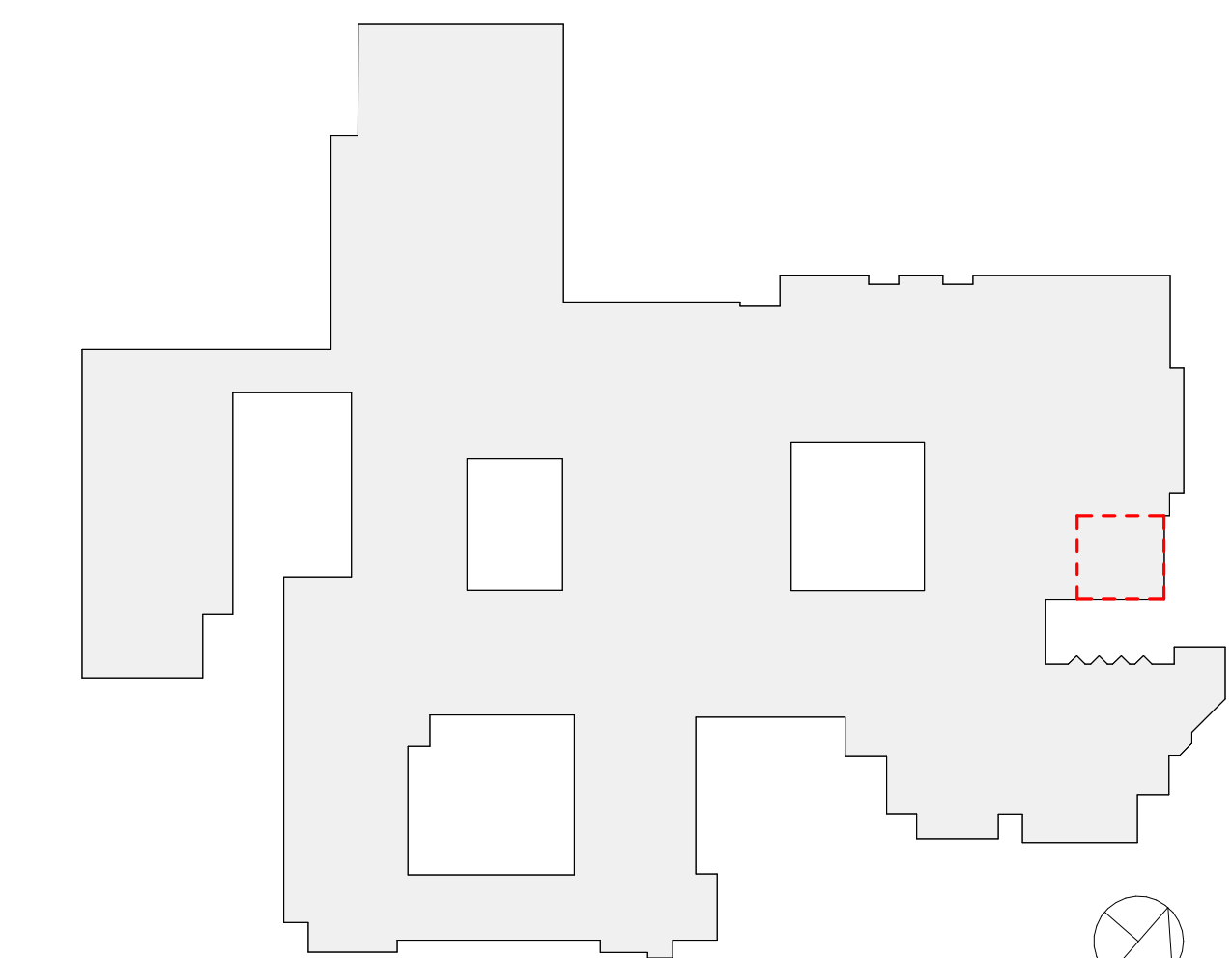
RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'



1 AUDIOVISUAL PLAN - iLAB  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN  
1" = 100'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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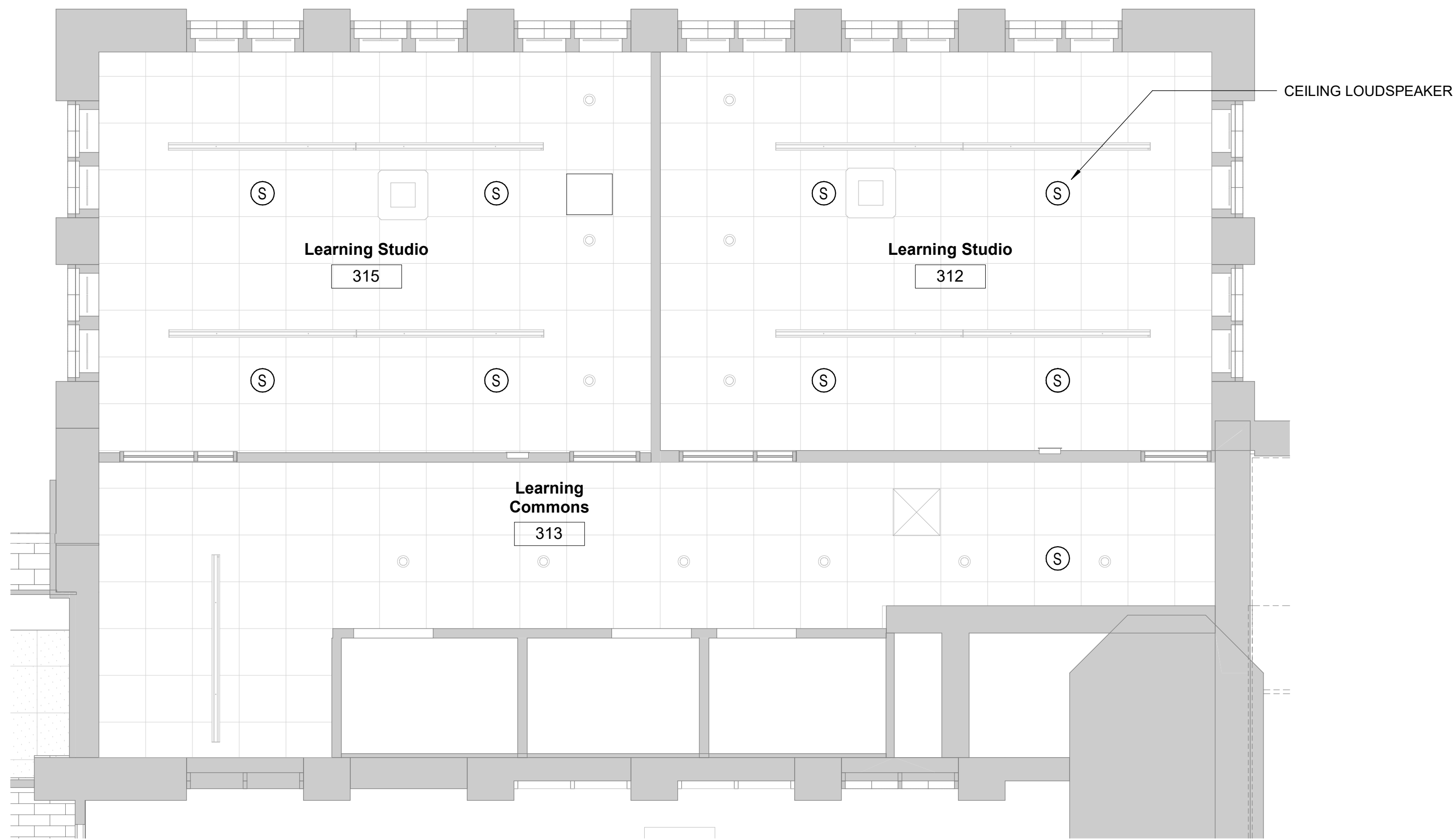
**loga**  
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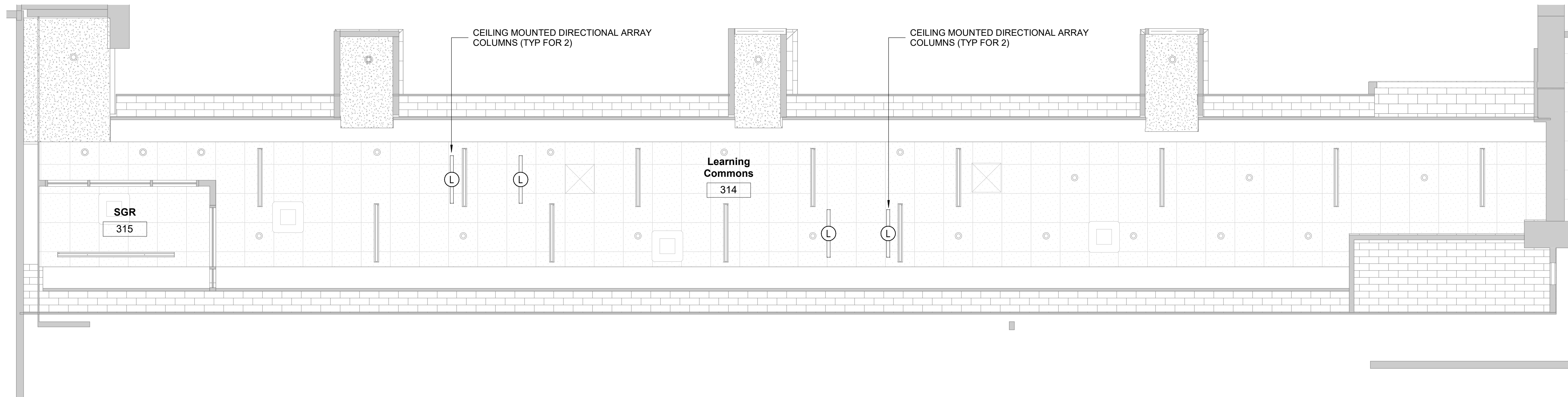
SED #: 66180001-0005-031

PROJECT  
**Rye City School District**  
555 Theodore Fremd Ave, Rye, NY 10580  
**Rye High School & Middle School**  
1 Parsons Street, Rye, New York 10580

AUDIOVISUAL PLAN - iLAB  
PROJECT 2  
SEAL & SIGNATURE DATE: 2/11/2021  
PROJECT No: 9200  
DRAWING BY: JMM  
CHK BY: MJM  
DWG No: AVE2-102

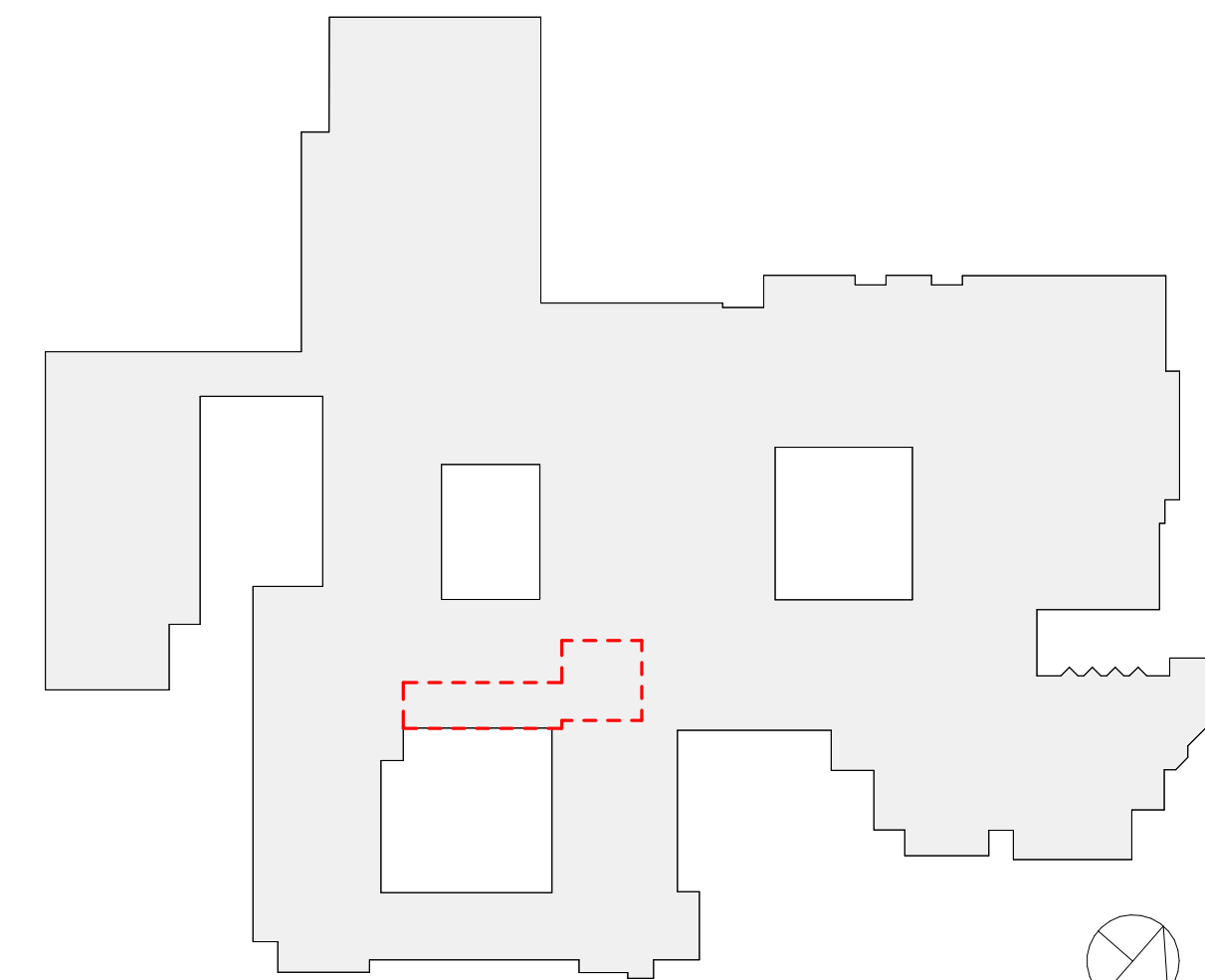


2 AUDIOVISUAL RCP - THIRD FLOOR - STUDIO  
1/4" = 1'-0"



1 AUDIOVISUAL RCP - THIRD FLOOR - COMMONS  
1/4" = 1'-0"

NOTE:  
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RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN  
1" = 100'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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DP DESIGN CAVANAUGH TOCCI

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401-861-3218 978-443-7871

SED #: 66180001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle  
School

1 Parsons Street, Rye, New York 10580

AUDIOVISUAL RCP - THIRD  
FLOOR

PROJECT 3

SEAL & SIGNATURE DATE: 2/11/2021

PROJECT No: 9200

DRAWING BY: JMM

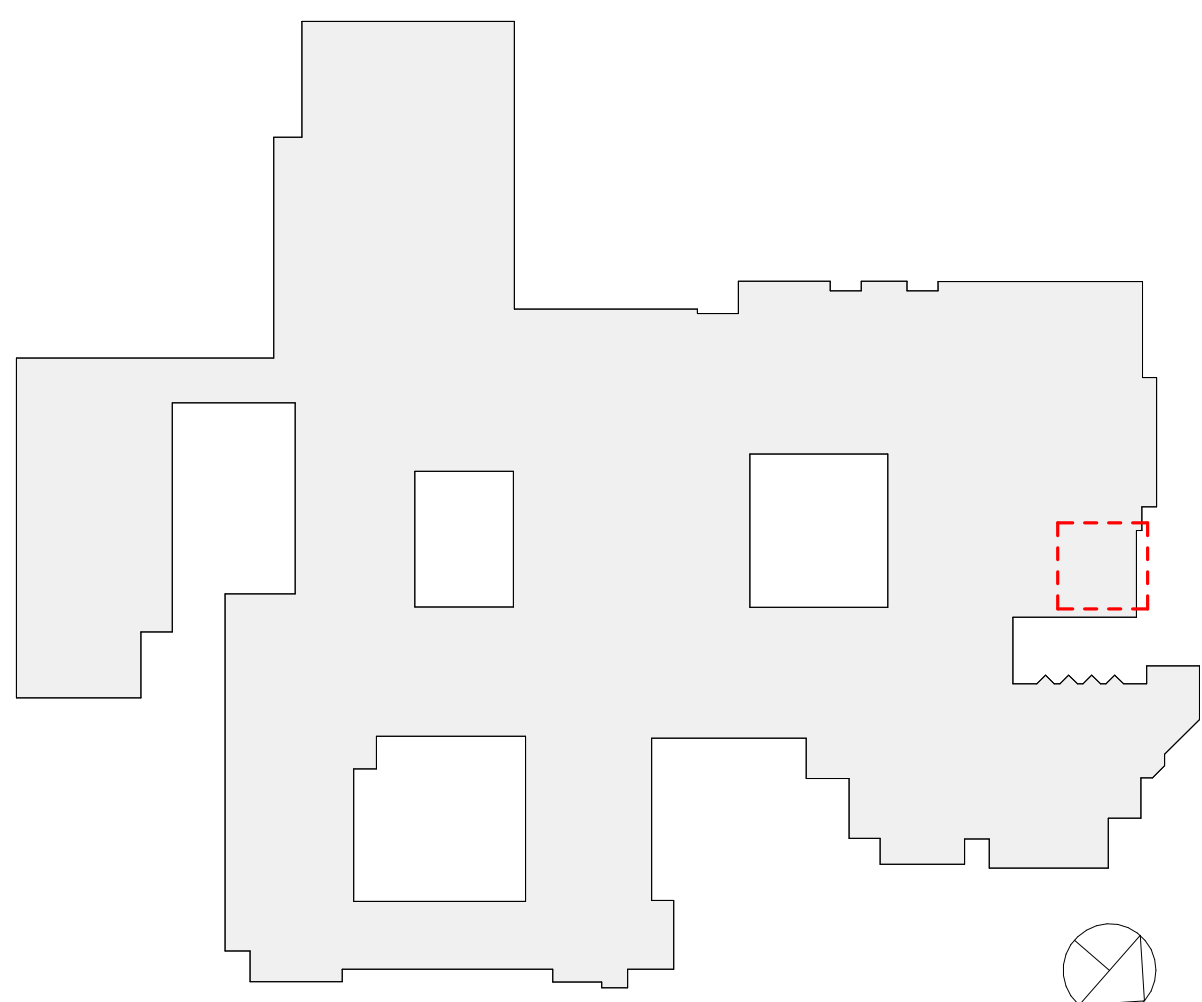
CHK BY: MJM

DWG No: AVE2-111



1 AUDIOVISUAL RCP - iLAB  
1/4" = 1'-0"

NOTE:  
1. LOCATIONS FOR ALL AUDIOVISUAL EQUIPMENT SHOWN. ITEMS SPECIFIED IN SPECIFICATION SECTION 274116 ARE BY THE ELECTRICAL CONTRACTOR. ALL OTHERS ITEMS BY THE OWNER.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN  
1" = 100'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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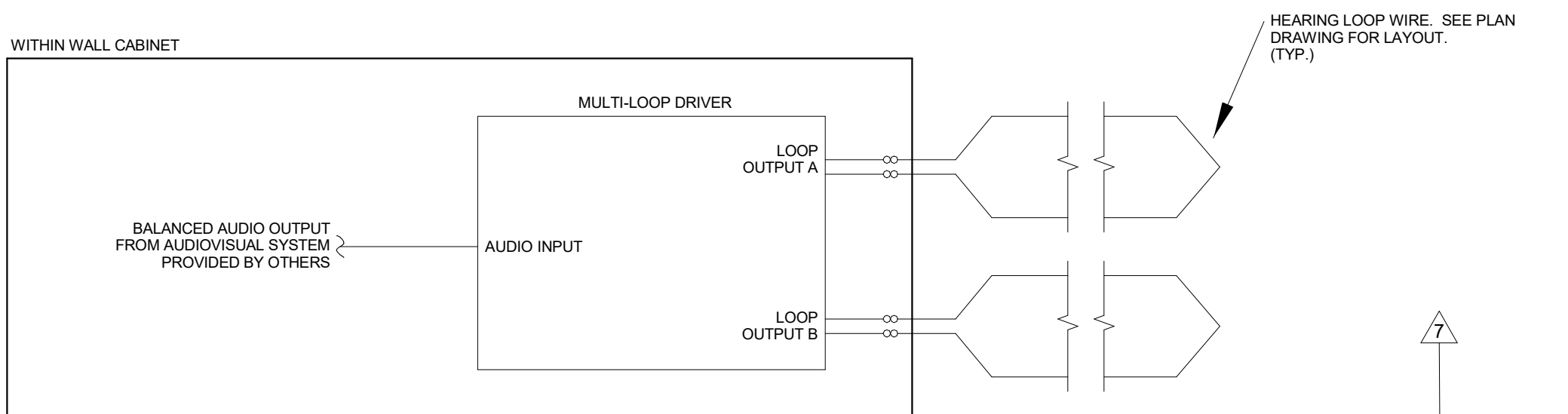
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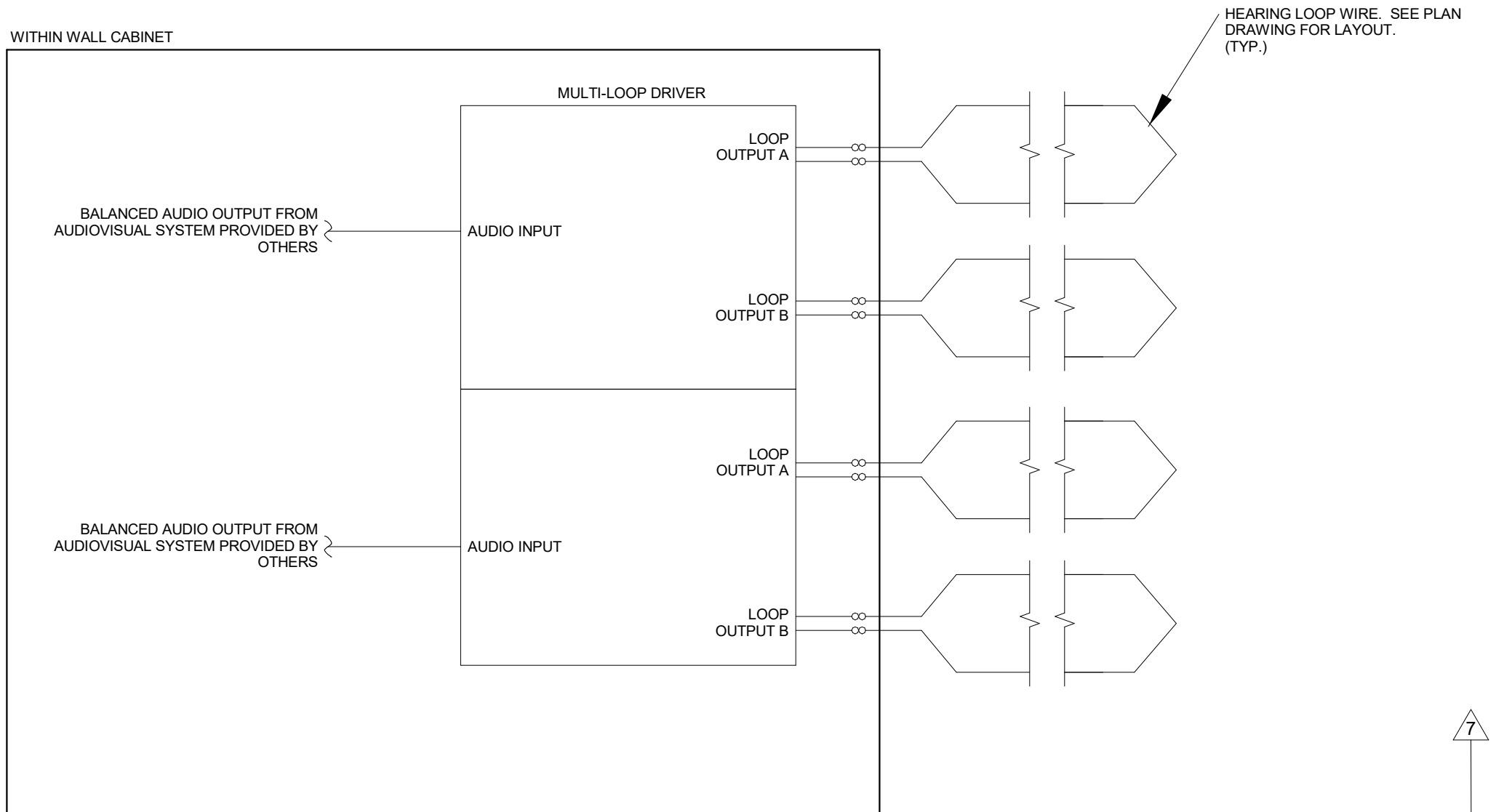
PROJECT  
**Rye City School District**  
555 Theodore Fremd Ave, Rye, NY 10580  
**Rye High School & Middle School**  
1 Parsons Street, Rye, New York 10580

AUDIOVISUAL RCP - iLAB

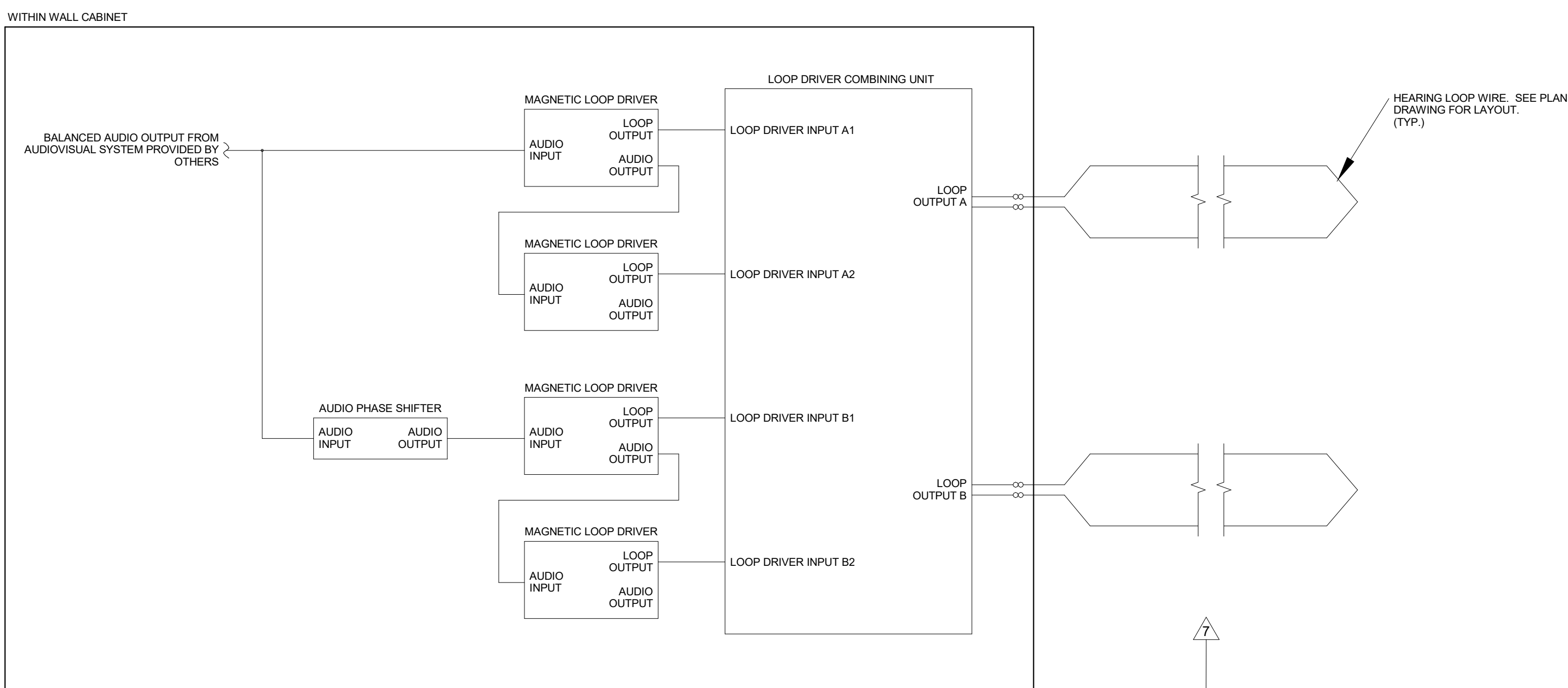
PROJECT 2  
SEAL & SIGNATURE DATE: 2/11/2021  
PROJECT No: 9200  
DRAWING BY: JMM  
CHK BY: MJM  
DWG No: AVE2-112



**SINGLE LOOP FUNCTIONAL DIAGRAM** EQUIPMENT WITHIN WALL CABINET BY OWNER. HEARING LOOP BY HEARING LOOP INSTALLER. FINAL CONNECTION TO EQUIPMENT BY OWNER.

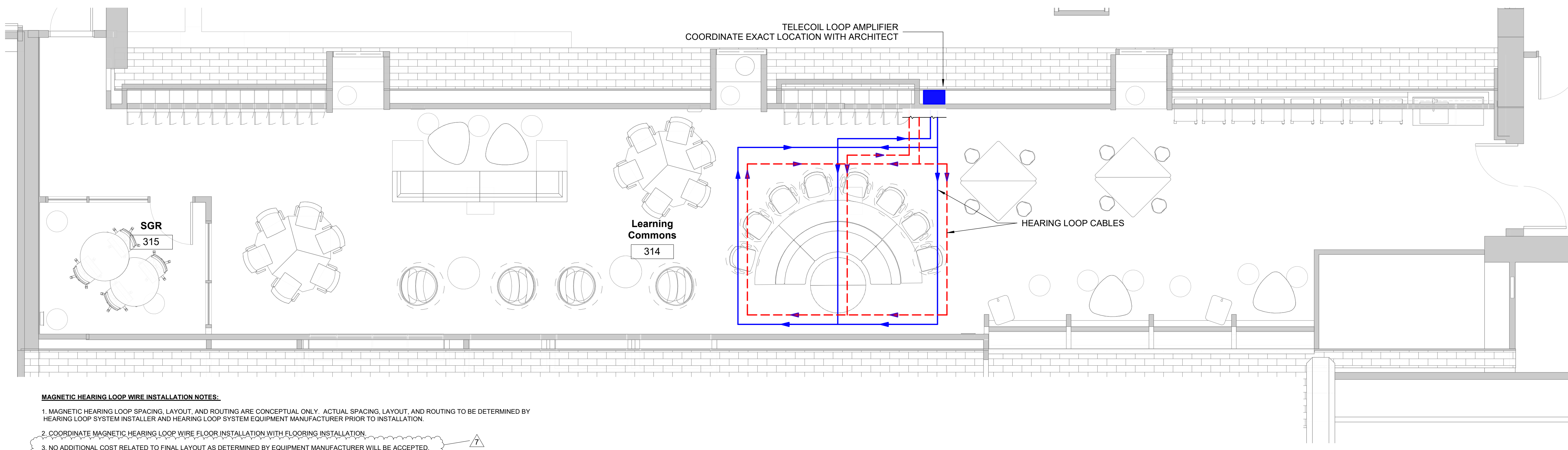


**TWO SYSTEMS LOOP FUNCTIONAL DIAGRAM** EQUIPMENT WITHIN WALL CABINET BY OWNER. HEARING LOOP BY HEARING LOOP INSTALLER. FINAL CONNECTION TO EQUIPMENT BY OWNER.



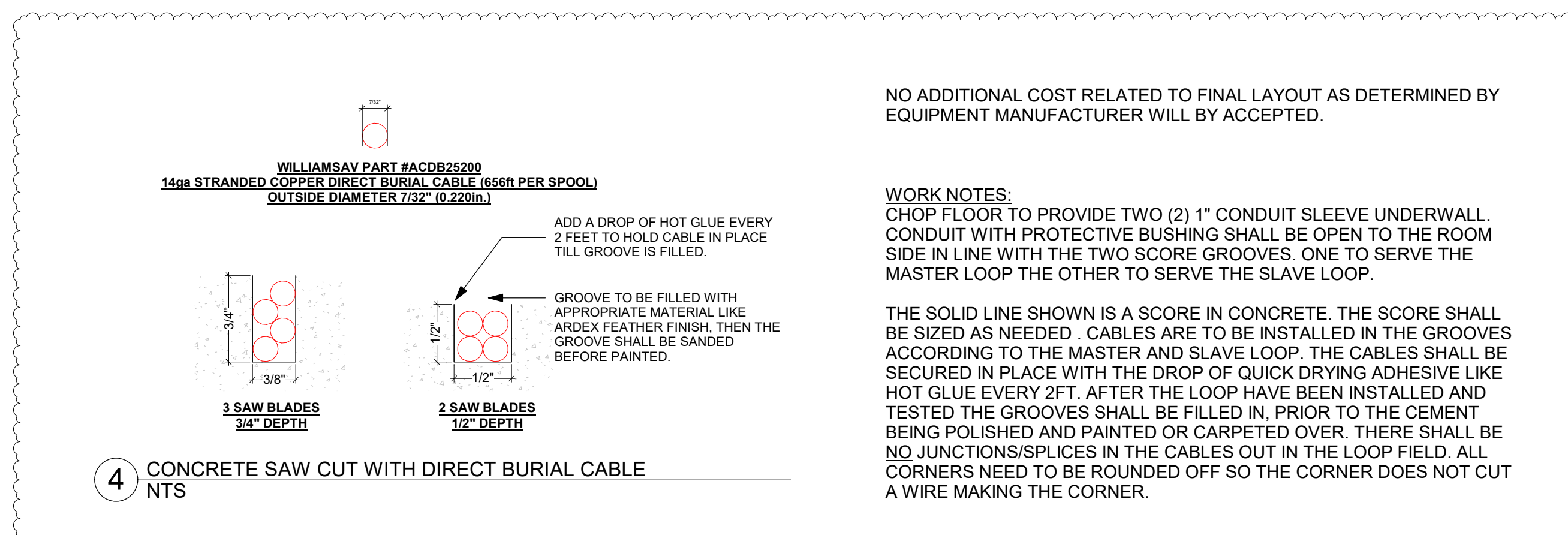
**SINGLE SYSTEM LARGE AREA LOOP FUNCTIONAL DIAGRAM** EQUIPMENT WITHIN WALL CABINET BY OWNER. HEARING LOOP BY HEARING LOOP INSTALLER. FINAL CONNECTION TO EQUIPMENT BY OWNER.

**2 HEARING LOOP SYSTEM DIAGRAM**  
NTS

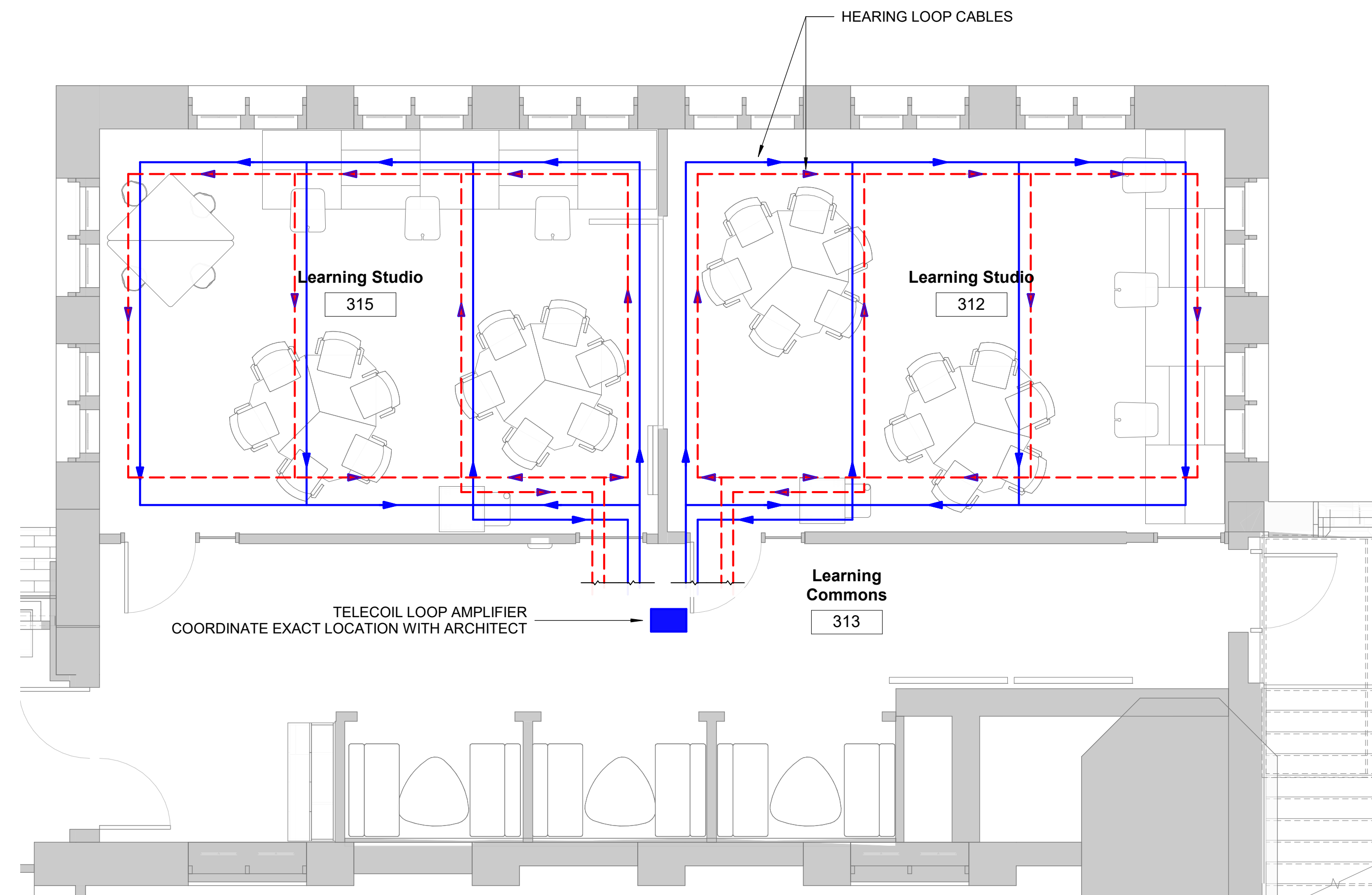


- MAGNETIC HEARING LOOP WIRE INSTALLATION NOTES:**
1. MAGNETIC HEARING LOOP SPACING, LAYOUT, AND ROUTING ARE CONCEPTUAL ONLY. ACTUAL SPACING, LAYOUT, AND ROUTING TO BE DETERMINED BY HEARING LOOP SYSTEM INSTALLER AND HEARING LOOP SYSTEM EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
  2. COORDINATE MAGNETIC HEARING LOOP WIRE FLOOR INSTALLATION WITH FLOORING INSTALLATION.
  3. NO ADDITIONAL COST RELATED TO FINAL LAYOUT AS DETERMINED BY EQUIPMENT MANUFACTURER WILL BE ACCEPTED.

**3 HEARING LOOP SYSTEM LOOP WIRE LAYOUTS - THIRD FLOOR - COMMONS**  
1/4" = 1'-0"

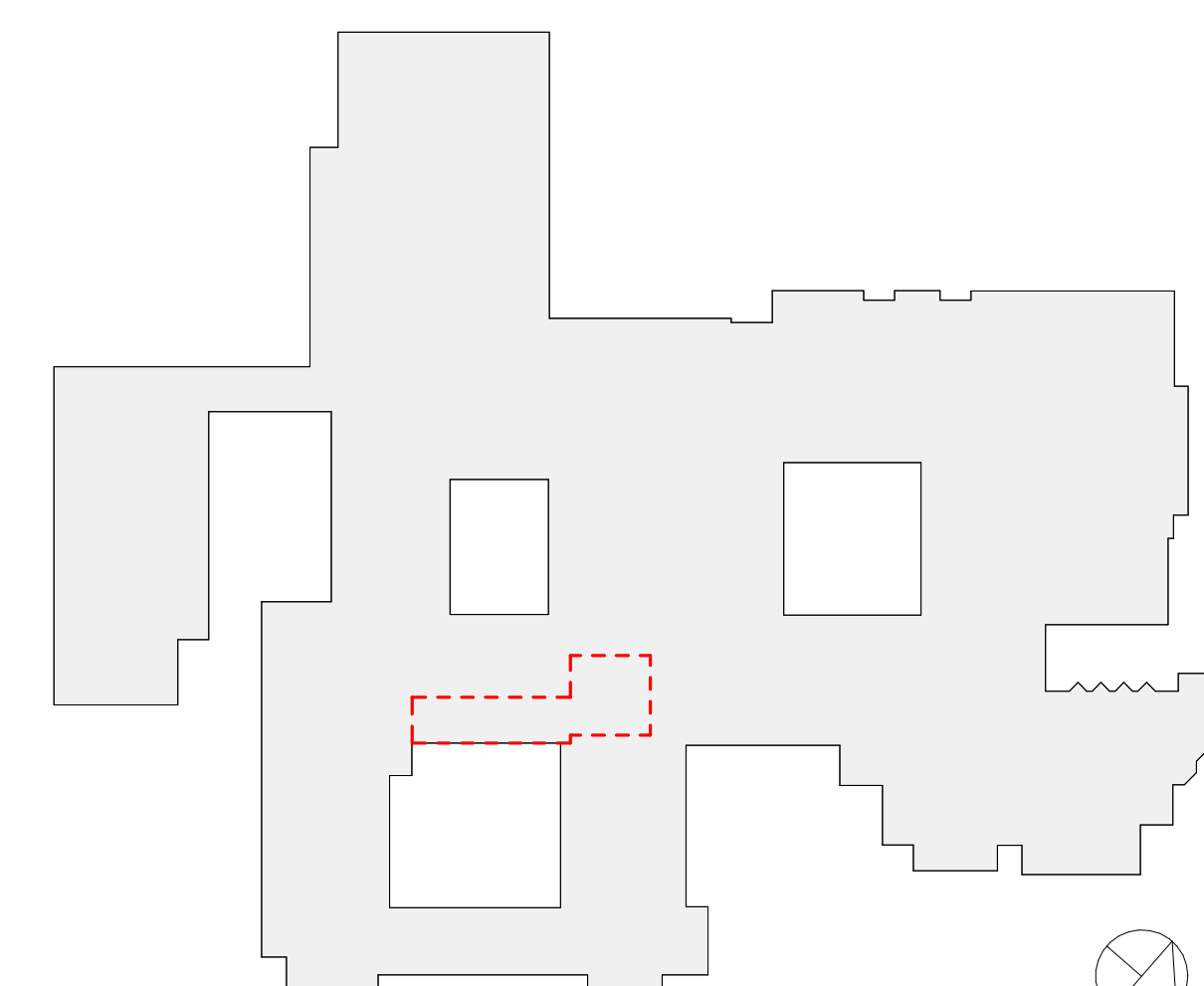


**4 CONCRETE SAW CUT WITH DIRECT BURIAL CABLE**  
NTS



- MAGNETIC HEARING LOOP WIRE INSTALLATION NOTES:**
1. MAGNETIC HEARING LOOP SPACING, LAYOUT, AND ROUTING ARE CONCEPTUAL ONLY. ACTUAL SPACING, LAYOUT, AND ROUTING TO BE DETERMINED BY HEARING LOOP SYSTEM INSTALLER AND HEARING LOOP SYSTEM EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
  2. COORDINATE MAGNETIC HEARING LOOP WIRE FLOOR INSTALLATION WITH FLOORING INSTALLATION.
  3. NO ADDITIONAL COST RELATED TO FINAL LAYOUT AS DETERMINED BY EQUIPMENT MANUFACTURER WILL BE ACCEPTED.

**1 HEARING LOOP SYSTEM LOOP WIRE LAYOUTS - THIRD FLOOR - STUDIO**  
1/4" = 1'-0"



**RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN**  
1" = 100'

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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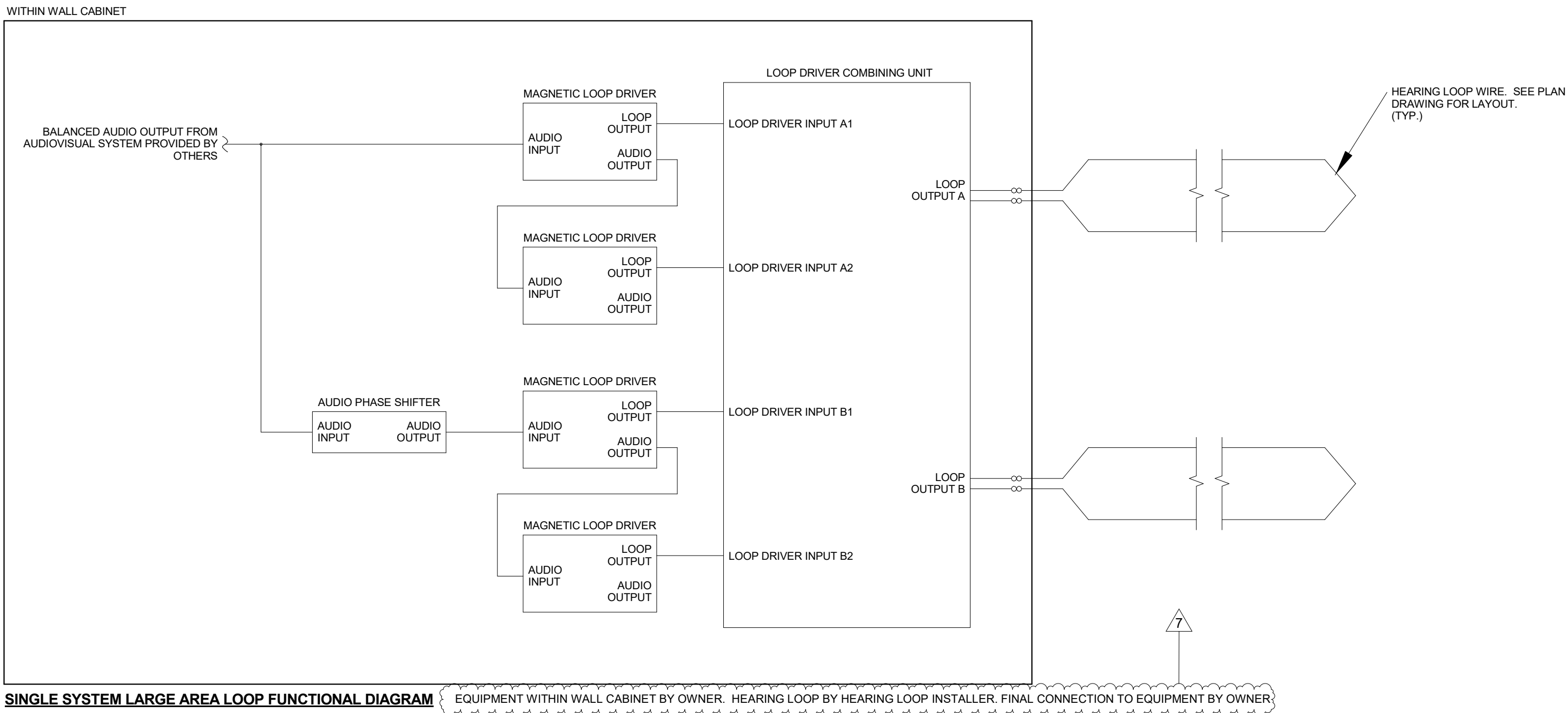
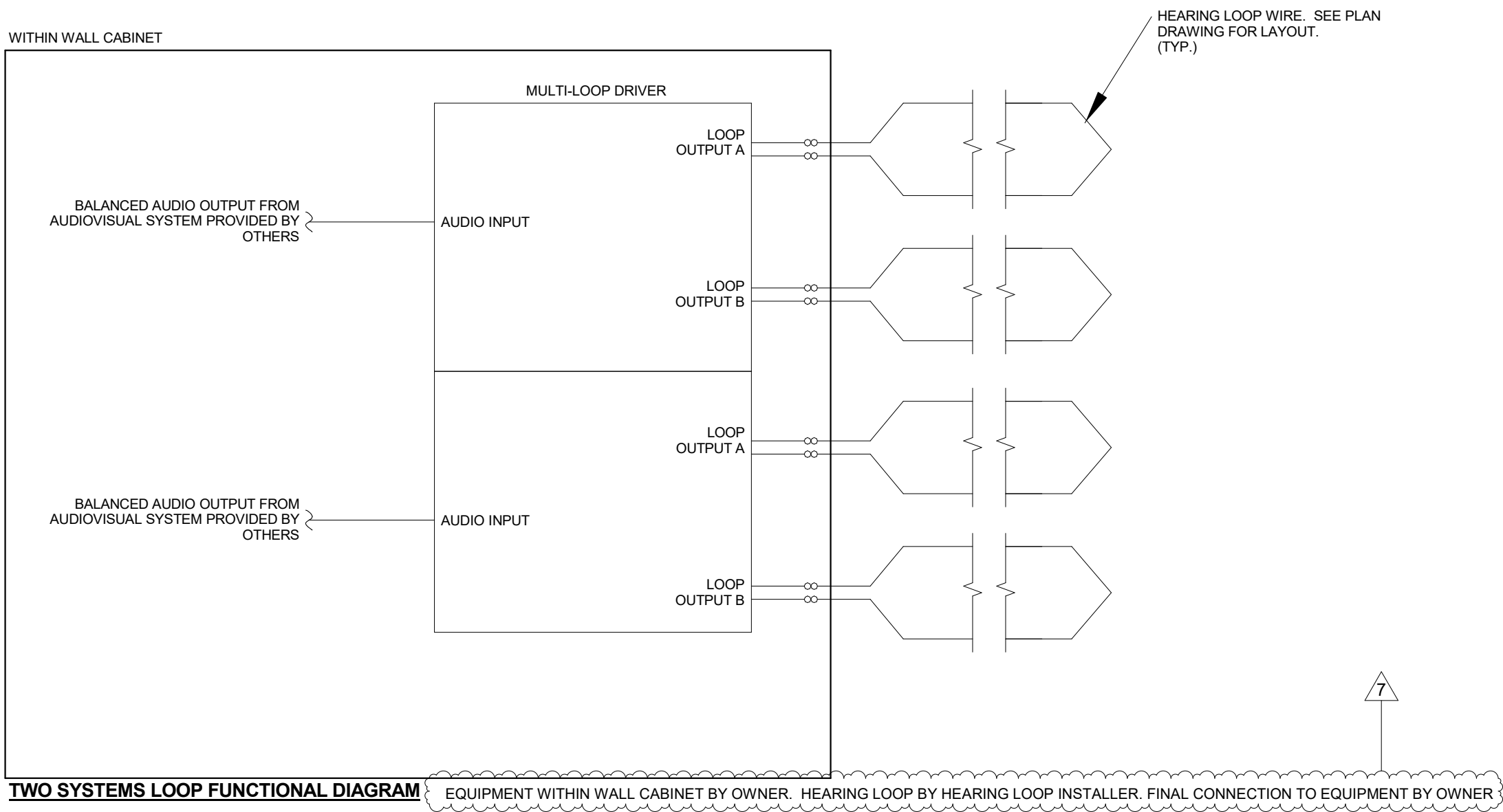
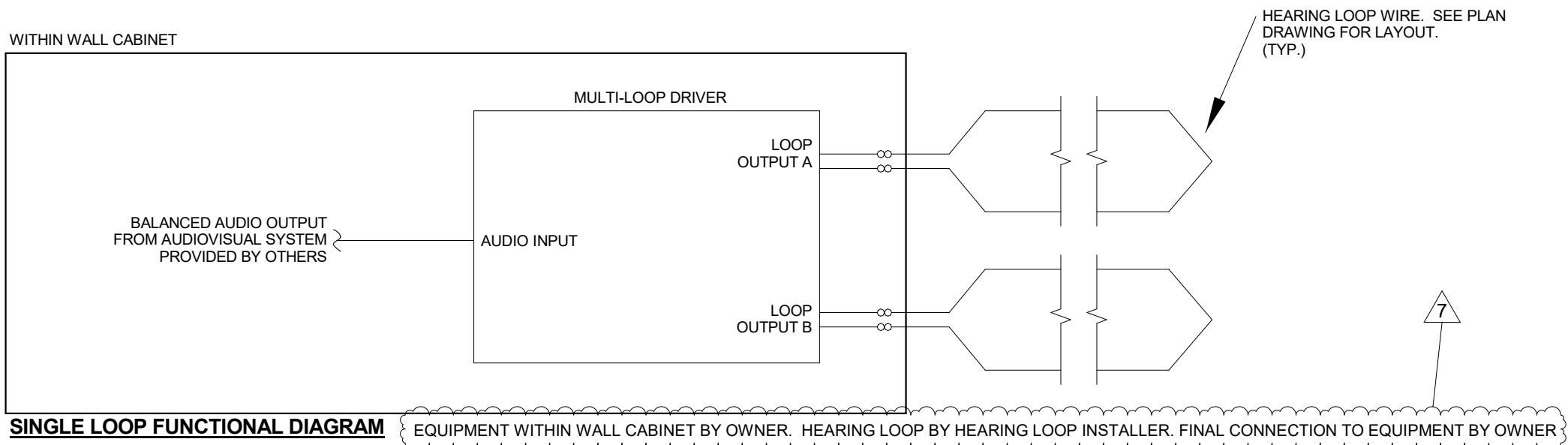
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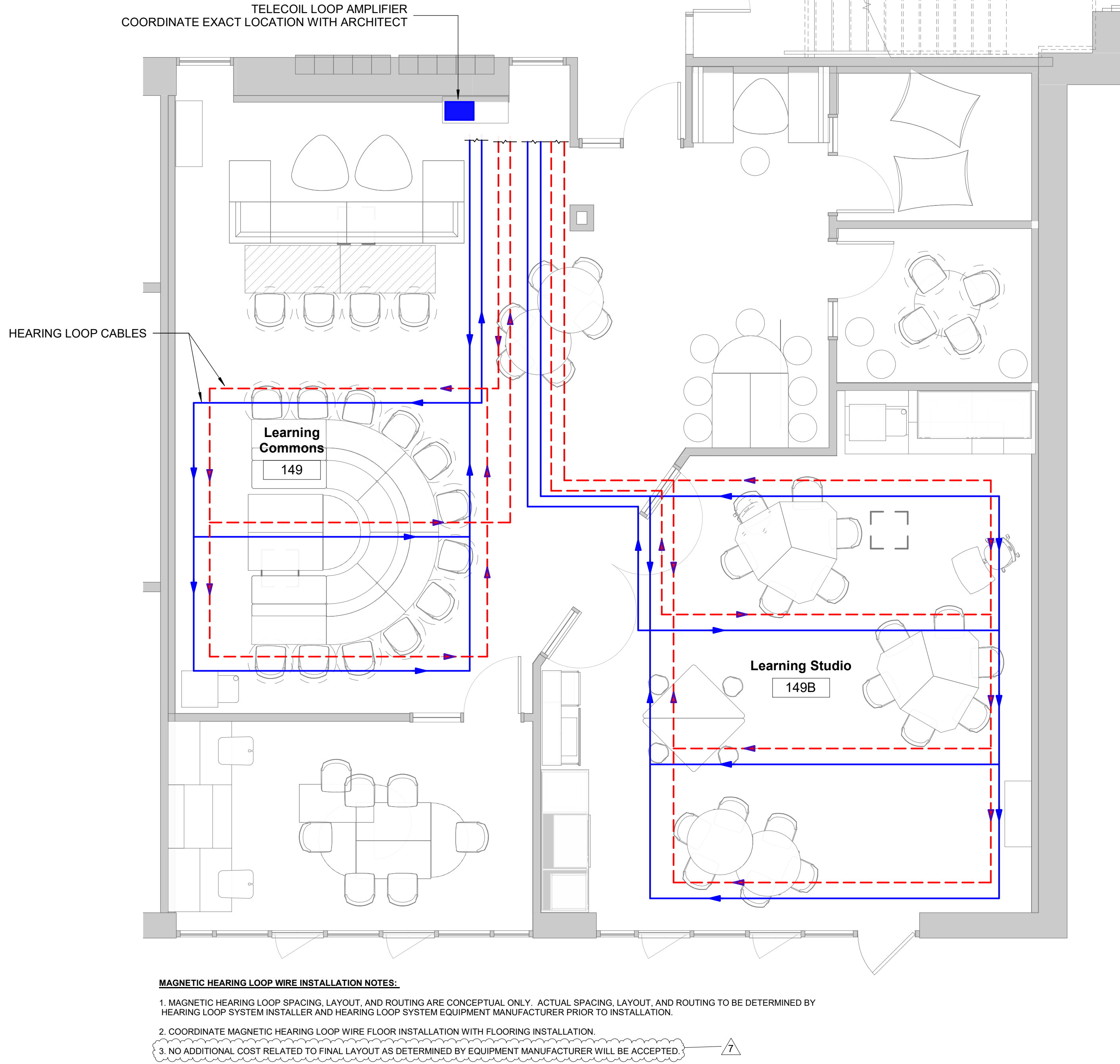
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**SED #: 66180001-0005-031**  
**PROJECT**  
**Rye City School District**  
555 Theodore Fremd Ave, Rye, NY 10580  
**Rye High School & Middle School**  
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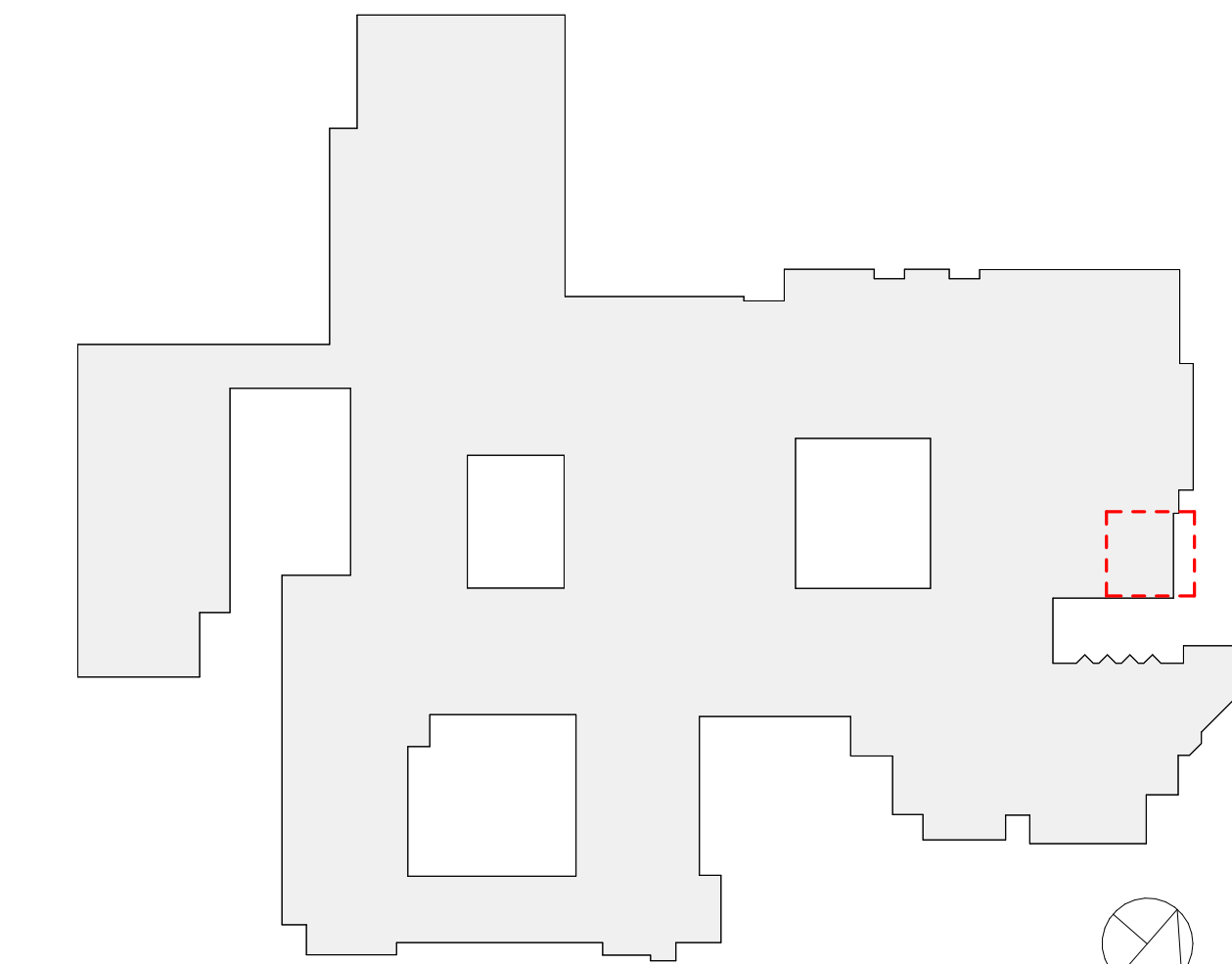
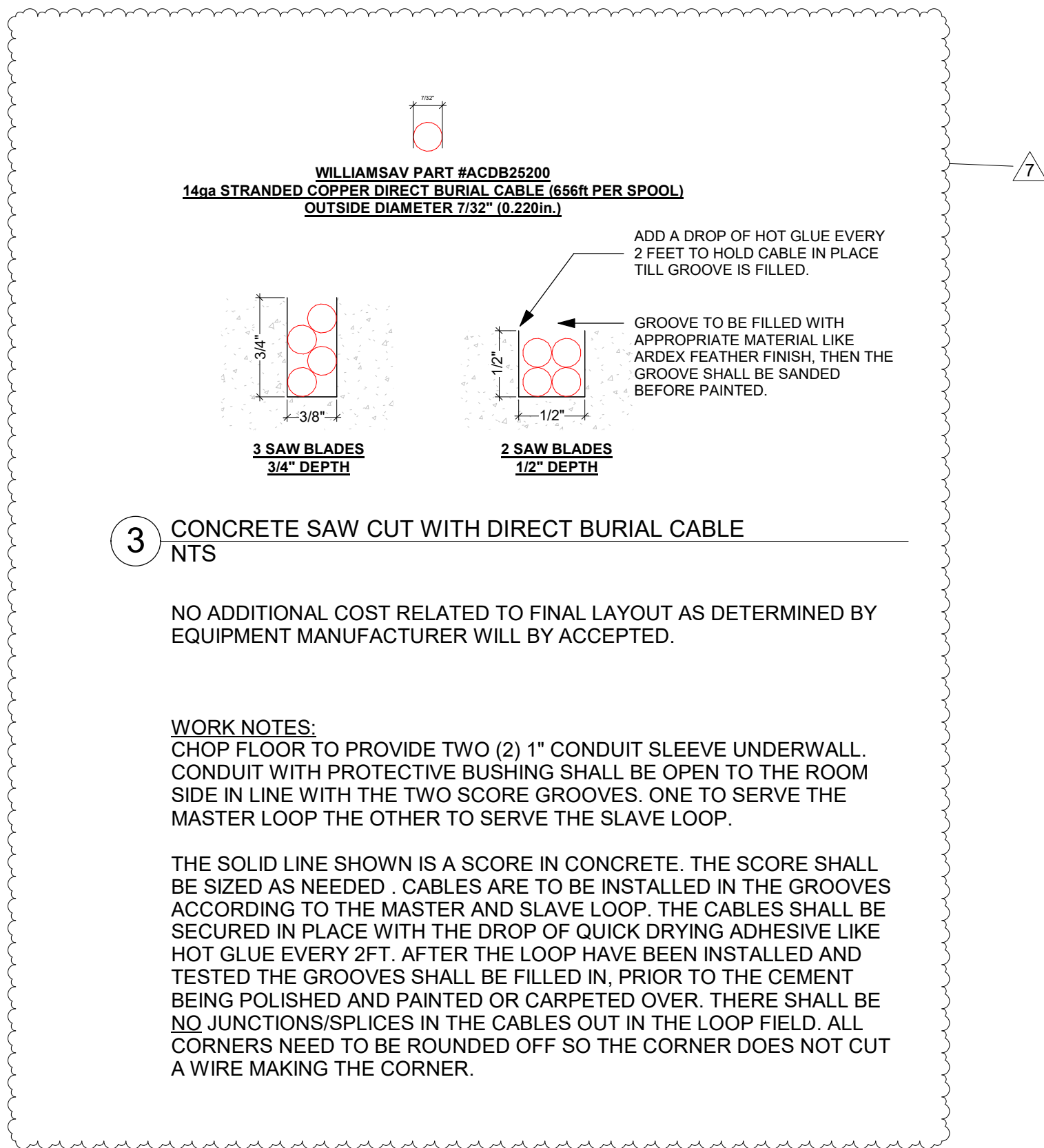
**HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - THIRD FLOOR**  
**PROJECT 3A**  
**SEAL & SIGNATURE** **DATE:** 2/11/2021  
**PROJECT No:** 9200  
**DRAWING BY:** JMM  
**CHK BY:** MJM  
**DWG No:** AVE2-201



2 HEARING LOOP SYSTEM DIAGRAM  
NTS



1 HEARING LOOP SYSTEM LOOP WIRE LAYOUTS - ILAB  
1/4" = 1'-0"



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN

1" = 100'-0"  
KEY PLAN Phase 2

Revision Schedule		
No.	Description	Date
7	BID ADDENDUM #3	2/11/2021

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SED #: 66180001-0005-031

PROJECT

Rye City School District

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Rye High School & Middle

School

1 Parsons Street, Rye, New York 10580

HEARING LOOP SYSTEM LOOP  
WIRE LAYOUTS AND  
DIAGRAMS - ILAB

PROJECT 2A

SEAL & SIGNATURE

DATE: 2/11/2021

PROJECT No: 9200

DRAWING BY: JMM

CHK BY: MJM

DWG No: AVE2-202

SCHEDULE OF EXISTING AIR HANDLING UNIT																										
GENERAL DATA				FAN DATA				HEATING DATA				COOLING DATA				CONDENSING UNIT		FILTER DATA		PHYSICAL DATA		ELECTRICAL DATA				REMARKS
MARK	SERVICE	MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.P. IN H <sub>2</sub> O	FAN RPM	MOTOR HP	TOTAL CAP. MBH	ENT. AIR TEMP. DB °F	LVG. AIR TEMP. DB °F	TOTAL CAP. MBH	SENSIBLE CAP. MBH	ENT. AIR TEMP. DB/WB °F	LVG. AIR TEMP. DB/WB °F	MARK	SERVICE	QTY.	SIZE (IN.)	TYPE	WEIGHT (LBS.)	LxWxH (IN.)	FLA	MCA	MOP	SERVICE	
	AUXILIARY GYM	—	4500 1800	4500	1.0	—	—	205	40	110	170	120	78/65	55/54		AUXILIARY GYM	—	—	MERV 13	—	—	—	—	—	208/3/60	REFER TO
	AUXILIARY GYM	—	4500 1800	4500	1.0	—	—	205	40	110	170	120	78/65	55/54		AUXILIARY GYM	—	—	MERV 13	—	—	—	—	—	208/3/60	
<b>NOTES</b> AS MANUFACTURED BY "CARRIER". REFURBISH IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. DESIGN AIR CONDITIONS: SUMMER: OA (94°F/75°F) RA (77°F/65°F); WINTER: OA (5°F/3°F) RA (70°F/55°F). BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, SEER 12.0. REFURBISH EXISTING UNITS TO INCLUDE STEAM CLEANING OF EXISTING UNIT COILS, REPLACEMENT OF ALL FILTERS WITH MERV 13 FILTERS, AIR BALANCING OF EXISTING FANS AND AIR OUTLETS, PROVIDE NEW DUCT MOUNTED DX COILS IN EACH OF THE FOUR DISTRIBUTION MAINS, INSTALL VRF TYPE CONDENSING UNITS ON ROOF WITH CONNECTING REFRIGERANT PIPING AND CONTROLS FOR ASSOCIATED DX COILS.																										

SCHEDULE OF UNIT HEATER									
MARK	MODEL No.	CAPACITY DATA			MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
		BTU/HR	FWT °F	LWT °F	GPM		LxWxH	WEIGHT (LBS)	
	HS-18	11725	160	140	1.0	9	120/1/60	—	REFER TO
<b>NOTES</b> AS MANUFACTURED BY "STERLING". INSTALL PER MANUFACTURER'S RECOMMENDATIONS CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.									

SCHEDULE OF CABINET HEATERS									
MARK	TYPE UNIT	MODEL No.	CAPACITY DATA				MOTOR HP	MOTOR RPM	ELECTRIC SERVICE
			BTU/HR	CFM	GPM	PD.FT.			
	RECESSED CLG. MTD.	RC1200-03	21,900	265	3.0	0.77	1/15	1100	120/1/60
	RECESSED WALL MTD.	RW1120-03	21,900	265	3.0	0.77	1/15	1100	120/1/60
<b>NOTES</b> AS MANUFACTURED BY "STERLING". INSTALL PER MANUFACTURER'S RECOMMENDATIONS CAPACITIES BASED ON LOW SPEED FAN SETTING AND HW 160°F/140°F PROVIDE THROWAWAY FILTERS, DISCONNECT SWITCH, TWO ROW COIL, REMOTE THERMOSTAT/FAN CONTROLS, ELECTRONICALLY COMMUTATED MOTOR (ECM), OPTIONAL COLOR/FINISH SELECTED BY ARCHITECT, INTEGRAL SPEED CONTROL SWITCH FIELD MOUNTED, RECESSED TRIM SECTION AND SEALS.									

SCHEDULE OF CONVECTORS									
MARK	MODEL No.	MBH	GPM	PHYSICAL DATA			WEIGHT	REMARKS	
				D	L	H			
	SF-A	3.5	1.0	4"	36"	26"	50	REFER TO	
	SF-A	8.0	2.0	6"	48"	32"	75		
	SF-A	11.0	2.0	6"	64"	32"	100		
<b>NOTES</b> AS MANUFACTURED BY "STERLING". INSTALL PER MANUFACTURER'S RECOMMENDATIONS CAPACITIES BASED ON 150" A.W.T.									














SCHEDULE OF EXPANSION TANK				
MARK	MODEL No.	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
	B-400	106	106	REFER TO
<b>NOTES</b> AS MANUFACTURED BY "BELL & GOSSETT". INSTALL PER MANUFACTURER'S RECOMMENDATIONS. VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 24"x65"H / 1200LBS.				

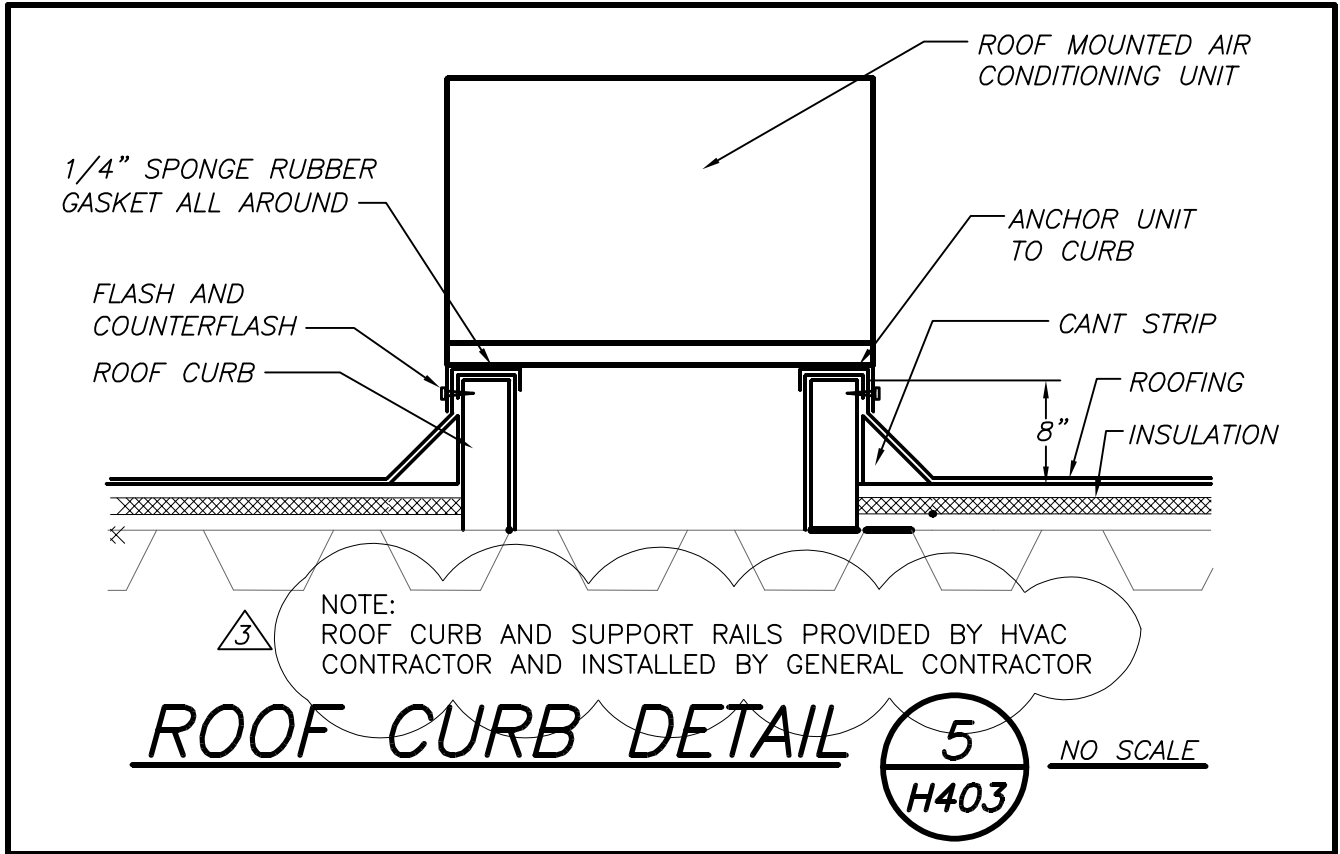
SCHEDULE OF DUCT MOUNTED HEATING COILS																			
GENERAL DATA			SIZE				AIR SIDE				WATER SIDE				REMARKS				
MARK	BUILDING	SERVICE	WIDTH (IN.)	HEIGHT (INCHES)	FACE AREA (FT <sup>2</sup> )	ROWS	FINES PER INCH	CFM	MBH	PRESS. DROP (W.C.)	VELOCITY FPM	E.A.T. N°	L.A.T. N°	FLOW RATE (GPM)	PRESS. DROP Δ HEAD (FT)	REFER TO			
	HIGH SCHOOL		—	—	—	2 MINIMUM	12 MAXIMUM	6600	435	0.2" MAX	600 MAX.	10	70	STEAM	5 FT. MAX.	REFER TO			
	HIGH SCHOOL		—	—	—	—	—	6600	435	—	—	—	—	STEAM	—	—	—	—	—
	HIGH SCHOOL		—	—	—	—	—	600	36	—	—	—	—	STEAM	—	—	—	—	—
	HIGH SCHOOL		—	—	—	—	—	400	27	—	—	—	—	—	3.0	—	—	—	—
	HIGH SCHOOL		—	—	—	—	—	200	14	—	—	—	—	—	2.0	—	—	—	—
	HIGH SCHOOL		—	—	—	—	—	6000	396	—	—	—	—	—	40.0	—	—	—	—
	MIDDLE SCHOOL		—	—	—	—	—	8000	528	—	—	—	—	—	53.0	—	—	—	—
	HIGH SCHOOL		—	—	—	—	—	1500	99	—	—	—	—	—	10.0	—	—	—	—
	HIGH SCHOOL		—	—	—	—	—	400	27	—	—	—	—	—	3.0	—	—	—	—
	MIDDLE SCHOOL		—	—	—	—	—	400	27	—	—	—	—	—	3.0	—	—	—	—
<b>NOTES</b> ENTERING WATER TEMPERATURE 180°F, 20°F ΔT. PROVIDE INSPECTION AND CLEANING DUCT ACCESS DOOR ON UPSTEAM SIDE OF COIL. THE HOT WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.																			

SCHEDULE OF EXISTING STEAM BOILERS														
BOILER DATA				BURNER DATA							INDUCED DRAFT FAN DATA		REMARKS	
MARK	SERVICE	MODEL N# (G)	NUMBER OF SECTIONS	MODEL N# (G)	OUTPUT (BHP)	OUTPUT MBH/HR	BOILER EFFICIENCY	FIRING RATE OIL (GPH)	FIRING RATE GAS (MBH)	BURNER MOTOR HP	OIL PUMP MOTOR HP	MODEL N# (G)		MOTOR HP
BOILER #1	ORIG. BLDG. & ADDITION	6500 -S-21	21	C7-GO-30	325	8463	83.7%	92	—	1 1/2 (208/3/60)	3/4 (208/3/60)	24C300-3	3 (208/3/60)	
BOILER #2														
BOILER #3														
NOTES														
	① AS MANUFACTURED BY "H.B. SMITH".													
	② AS MANUFACTURED BY "POWERFLAME".													
	③ AS MANUFACTURED BY "AUBURN".													

SCHEDULE OF BOILERS									
BOILER DATA			BURNER DATA		ELECTRICAL	PHYSICAL DATA		REMARKS	
MARK	LOCATION	MODEL No.	INPUT (MBH)	OUTPUT (MBH)	FUEL	SERVICE	MCA	(IN)	WEIGHT (LBS)
	BOILER ROOM	ENDURA 1000	1000	902	GAS	120/1/60	20	28Wx51Lx68H	2000
<b>NOTES</b> AS MANUFACTURED BY "FULTON". BURNER INTEGRAL TO BOILER. PROVIDE MANUFACTURER RECOMMENDED COMBUSTION AIR INTAKE AND EXHAUST VENT PIPING, VENT PIPE CONDENSATE DRAIN, HIGH/LOW LIMIT CONTROL, DUAL LOW WATER CUT OFFS, OUTDOOR AIR TEMPERATURE SENSOR KIT, MULTIPLE BOILER CONDENSATE NEUTRALIZER PACKAGE, VENT PIPING PER THIS MANUFACTURER AL-29-4C OR 316L, BURNER CONTROLS, DISCONNECT SWITCH, LEAD LAG CONTROLS, MOTORIZED ISOLATION VALVES, BOILER PUMP START/STOP SIGNAL, VENTLESS GAS TRAIN, MODSVCN CONTROL PANEL. BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INSURANCE UNDERWRITER, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. BOILERS SHALL BE FULLY FIELD COMMISSIONED BY AUTHORIZED TECHNICIAN FOR THE TYPE OF GAS FIRED (LPG OR NG). IF THE TYPE OF GAS IS CHANGED AFTER STARTUP THE BOILERS SHALL BE FULLY RE-COMMISSIONED BY AUTHORIZED TECHNICIAN. PROVIDE THROUWAY FILTERS, DISCONNECT SWITCH, TWO ROW COIL, REMOTE THERMOSTAT/FAN CONTROLS, ELECTRONICALLY COMMUTATED MOTOR (ECM), OPTIONAL COLOR/FINISH SELECTED BY ARCHITECT, INTEGRAL SPEED CONTROL SWITCH FIELD MOUNTED, RECESSED TRIM SECTION AND SEALS. HOT WATER BASED ON 140°F E.W.T., 160°F L.W.T.									

SCHEDULE OF PUMPS									
MARK	SERVICE	LOCATION	MODEL No.	GPM	HEAD FT. H <sub>2</sub> O	RPM	MOTOR HP/BHP	ELECTRIC SERVICE	PHYSICAL DATA
									(IN) WEIGHT (LBS)
	HEATING LOOP	MECHANICAL	SERIES E-1510 5GB	800	80	1800	30/21	460/3/60	25Wx56Lx30H
	HEATING LOOP	MECHANICAL	SERIES E-1510 340	300	130	1800	25/17.5		21Wx52Lx24H
	HEATING LOOP	MECHANICAL	SERIES E-1510 340	300	130	1800	25/17.5		21Wx52Lx24H
	HEATING LOOP	MECHANICAL	SERIES E-80 4x4x9.5B	200	20	1170	2/1.5		12Wx25Lx29H
	HEATING LOOP	MECHANICAL	—	200	75	1750	7.5/-		—
<b>NOTES</b> AS MANUFACTURED BY "BELL & GOSSETT". INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VFD'S FOR ALL PUMPS. VFD'S SHALL BE WALL OR STAND MOUNTED NEAR PUMPS. PROVIDE ALL MOUNTING HARDWARE. EXISTING PUMPS SHALL BE INSPECTED, REFURBISHED TO EXISTING DESIGN CONDITIONS, REPAIR PUMPS AS REQUIRED IF FOUND NOT OPERATING PROPERLY, PROVIDE INITIAL WATER BALANCING REPORT PRIOR TO HEAT EXCHANGER DEMOLITION FOR BASELINE OF EXISTING PUMP PERFORMANCES.									

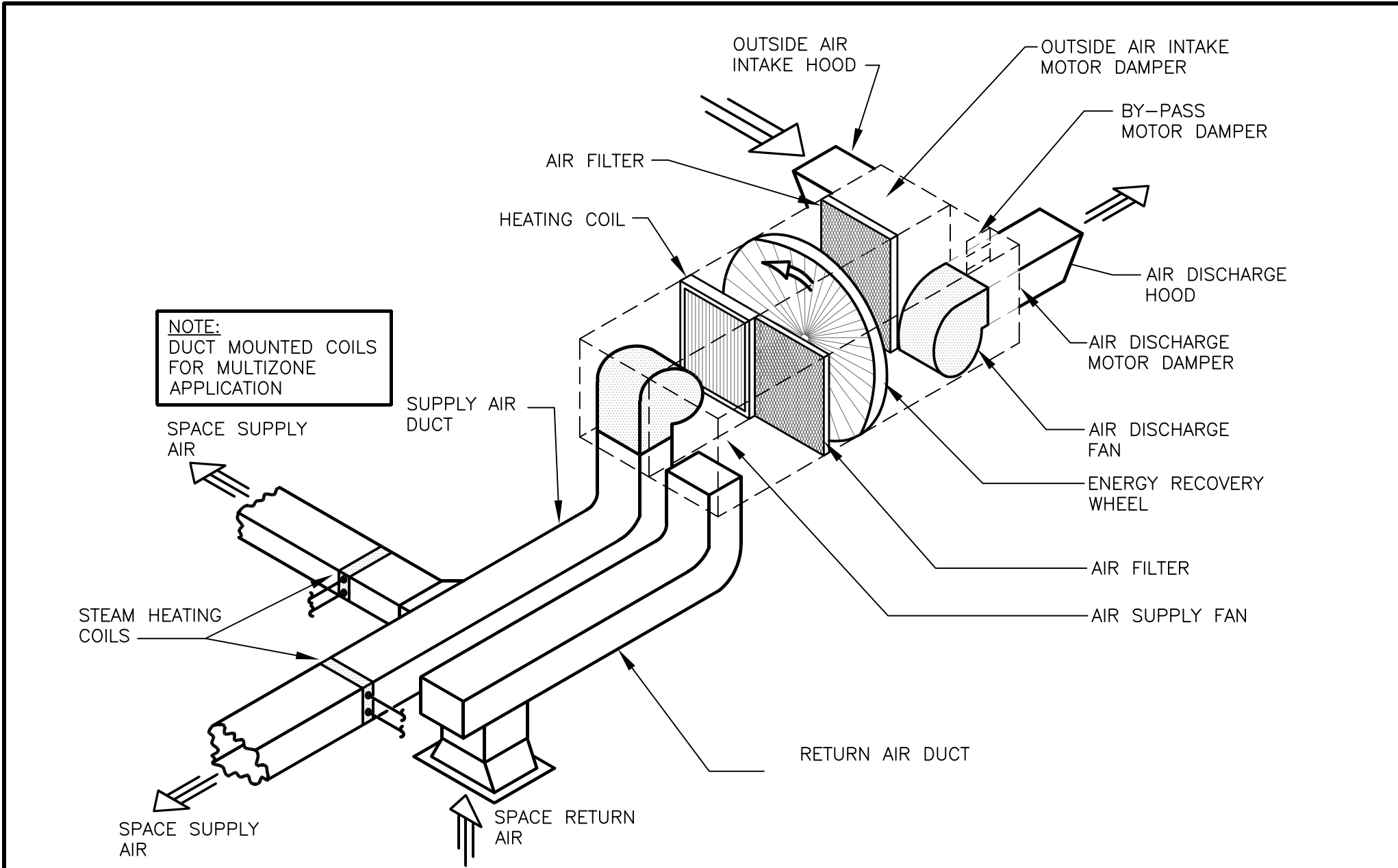
SCHEDULE OF UNIT VENTILATORS																
MARK	MODEL No.	CFM	MIN. O.A. CFM	COOLING DATA		HEATING DATA			FILTER TYPE	MOTOR H.P.	ELEC. SERV.	MOTOR FLA	MCA	MOP	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
				TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	CAPACITY MBH	GPM	ROWS								
	FRESHMAN HNA1000BC	1000	550	—	—	76	5	2	THROWAWAY 2/12"x20"x2"	0.5	EA208/1/60	4.7	9.5	15	40"x35"Wx115"H/600LBS	REFER TO 
	FRESHMAN HNA1800BC	1750	550	—	—	76	5	2	THROWAWAY 2/12"x20"x2"	0.5	EA208/1/60	4.7	14.4	20	47"x35"Wx115"H/600LBS	
	MAUV1500	1500	1055	—	—	84	9	3	THROWAWAY	0.5	115/1/60	4.7	5.9	15	100"x22"Wx30"H/750LBS	
NOTES	 AS MANUFACTURED BY "CHANGAIR SYSTEMS".			 UNIT SHALL INCLUDE ERV (ENERGY RECOVERY WHEEL) PACKAGE, SOUND PACKAGE, HOT WATER HEATING COIL, DX COIL FOR FUTURE CONNECTION WITH STAINLESS STEEL INSULATED DRAIN PAN, 24" HIGH ACOUSTICALLY LINED SUPPLY PLENUM WITH MULTIPLE REGISTERS, FIELD ERECTED TOP EXTENSION SECTIONS TO CEILING,						 UNIT SHALL INCLUDE HOT WATER HEATING COIL, FULL ADAPTER BACK WITH PIPE TUNNEL, INSULATED VALVE PACKAGE, DISCHARGE GRILLE WITH SCREEN, INSULATED OUTSIDE AIR DAMPER, FACE AND BYPASS DAMPER, 2" MERV 8 FILTERS, DX COIL FOR FUTURE CONNECTION.						
	 BASED ON 160" F.E.W.T., 140" F.L.W.T.			 MODULATING ECONOMIZER (100% OA) CONTROLS; POWERED EXHAUST; FIELD ERECTED REAR PLENUM SECTIONS, FULL SIZE LOUVER; FACTORY INSTALLED COX READY CONTROL PACKAGE (ATC CONTRACTOR TO FIELD INSTALL COX CONTROLS AND PROVIDE ALL CONTROL VALVES TO HVAC CONTRACTOR FOR INSTALLATION), 2" THICK MERV 13 FILTERS, SIDE PIPE COVERS, FULL HEIGHT SIDE PANELS FROM UNIT TO 0-WALL- AND TOP/BOTTOM TRIM/COVE BASE-PIECES- (ALL EXTENSIONS, PANELS, PIPE ENCLOSURES AND TRIM/COVE BASE PIECES SHALL MATCH UNIT COLOR AND FINISH).												
	 INSTALL PER MANUFACTURER'S RECOMMENDATIONS															



ROOF CURB DETAIL

5  
H403

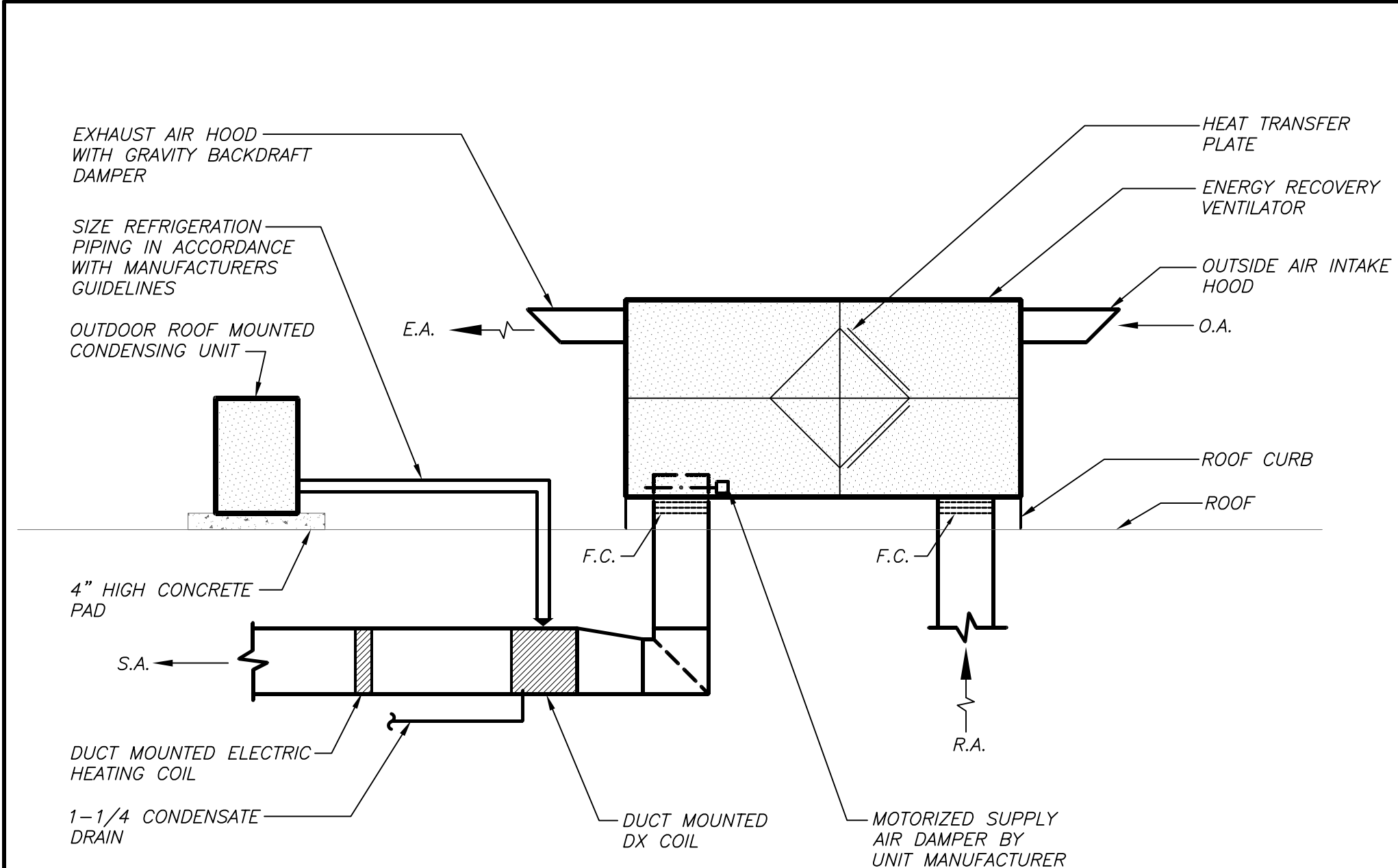
NO SCALE



ISOMETRIC OF ROOF MOUNTED ENERGY RECOVERY AIR HANDLING UNIT DETAIL

1  
H403

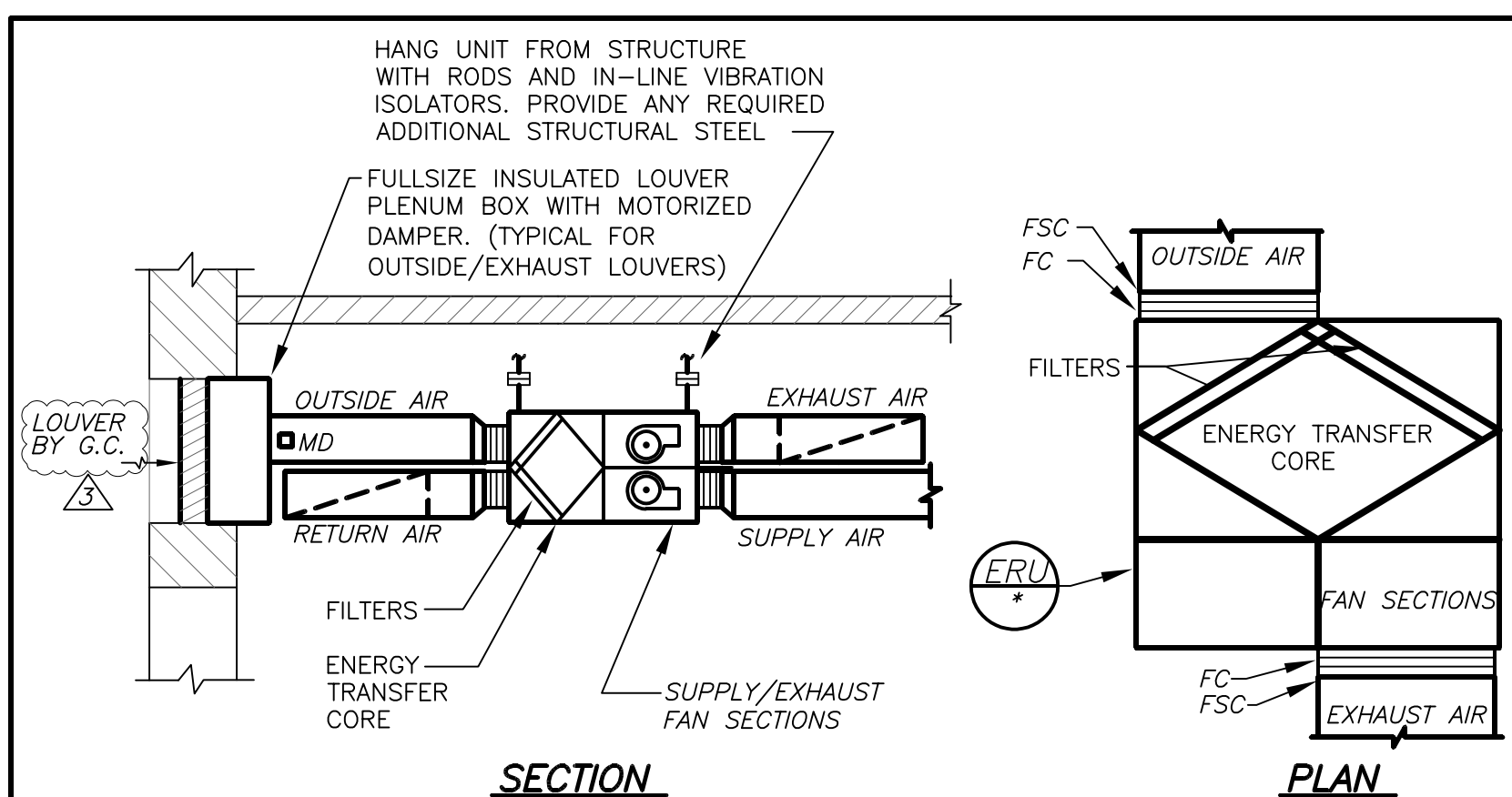
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ENERGY RECOVERY VENTILATOR DETAIL

2  
H403

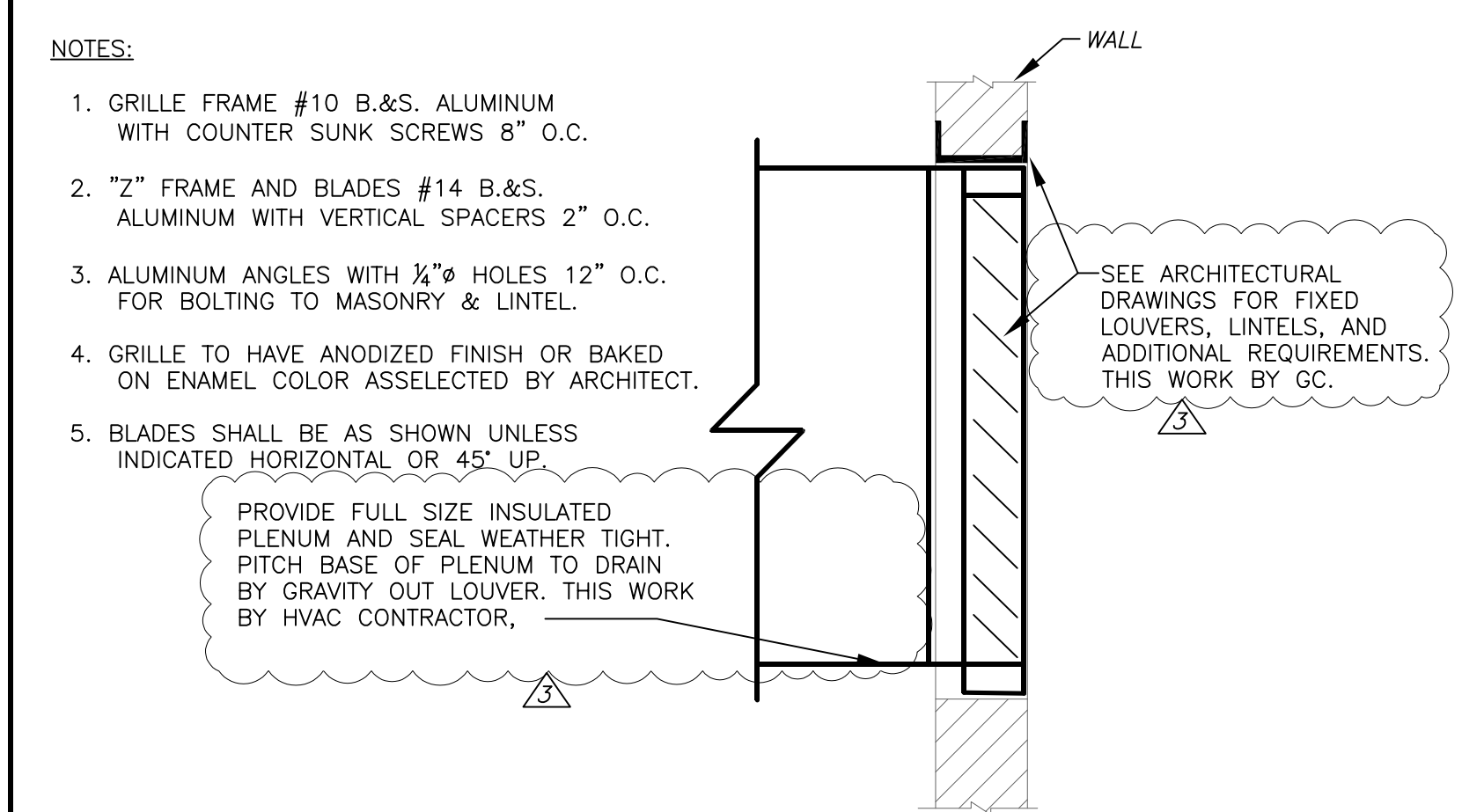
NO SCALE



INDOOR CEILING MOUNTED ENERGY RECOVERY UNIT DETAIL

3  
H403

NO SCALE

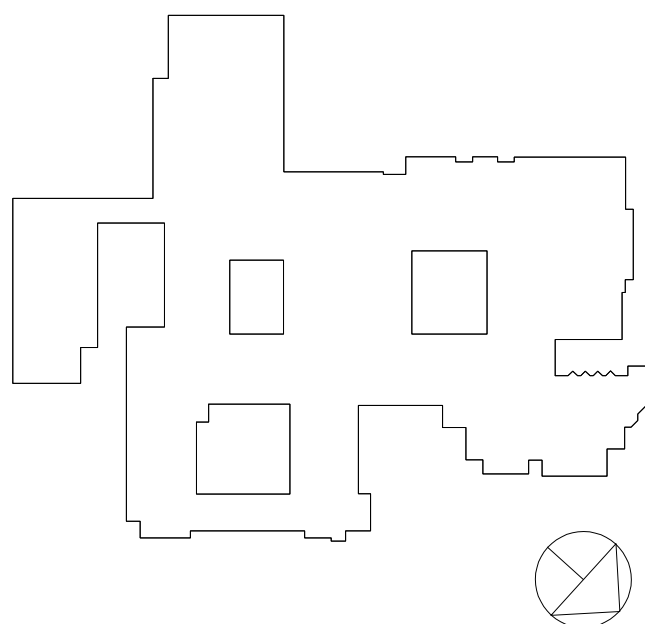


OUTSIDE AIR INTAKE LOUVER DETAIL

NO SCALE

4  
H403

Revision Schedule		
No.	Description	Date
1	SED Submission	09/15/2020
3	ISSUED FOR BID	01/19/2021
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518-463-4400

Acoustic Consultant  
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12 Cold Spring Street  
Providence, RI  
401-861-3218

SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle  
School

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE  
SCHOOL  
DETAILS

SEAL & SIGNATURE	DATE:	11/07/19
	PROJECT No:	9200
	DRAWING BY:	BGA
	CHK BY:	BGA
	DWG No:	H2-403

BEFORE FABRICATION THIS CONTRACTOR SHALL  
VERIFY ALL MEASUREMENTS AND CONDITIONS ON  
JOB AND COORDINATE HIS WORK WITH THE WORK  
OF ALL OTHER CONTRACTORS



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401-861-3218

SED #: 6618-0001-0005-031

PROJECT

Rye City School District  
555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle  
School

1 Parsons Street, Rye, New York 10580

## HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR LIGHTING PLAN

## PROJECT 3

SEAL & SIGNATURE	DATE:	11/07/11
	PROJECT No:	920
	DRAWING BY:	BGA
	CHK BY:	BGA
	DWG No:	E2-206



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 THE DOWN-WHICH-TO-UP SWITCH OF THE EXISTING TWO-WAY SWITCH 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.

WORK NOTES:

- 1 CIRCUIT FIXTURE TO EMERGENCY LIGHTING CIRCUIT IN THE AREA.
- 2 CIRCUIT FIXTURE TO STAIRWAY EMERGENCY LIGHTING CIRCUIT AND CONTROLS.
- 3 PROVIDE DRIVER TYPE LLI ARCHITECTURAL LIGHTING MODEL #LLI-PS-UDEFF-200W-24V-KO FOR WM2 POWER

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JOB AND COORDINATE HIS WORK WITH THE WORK  
OF ALL OTHER CONTRACTORS

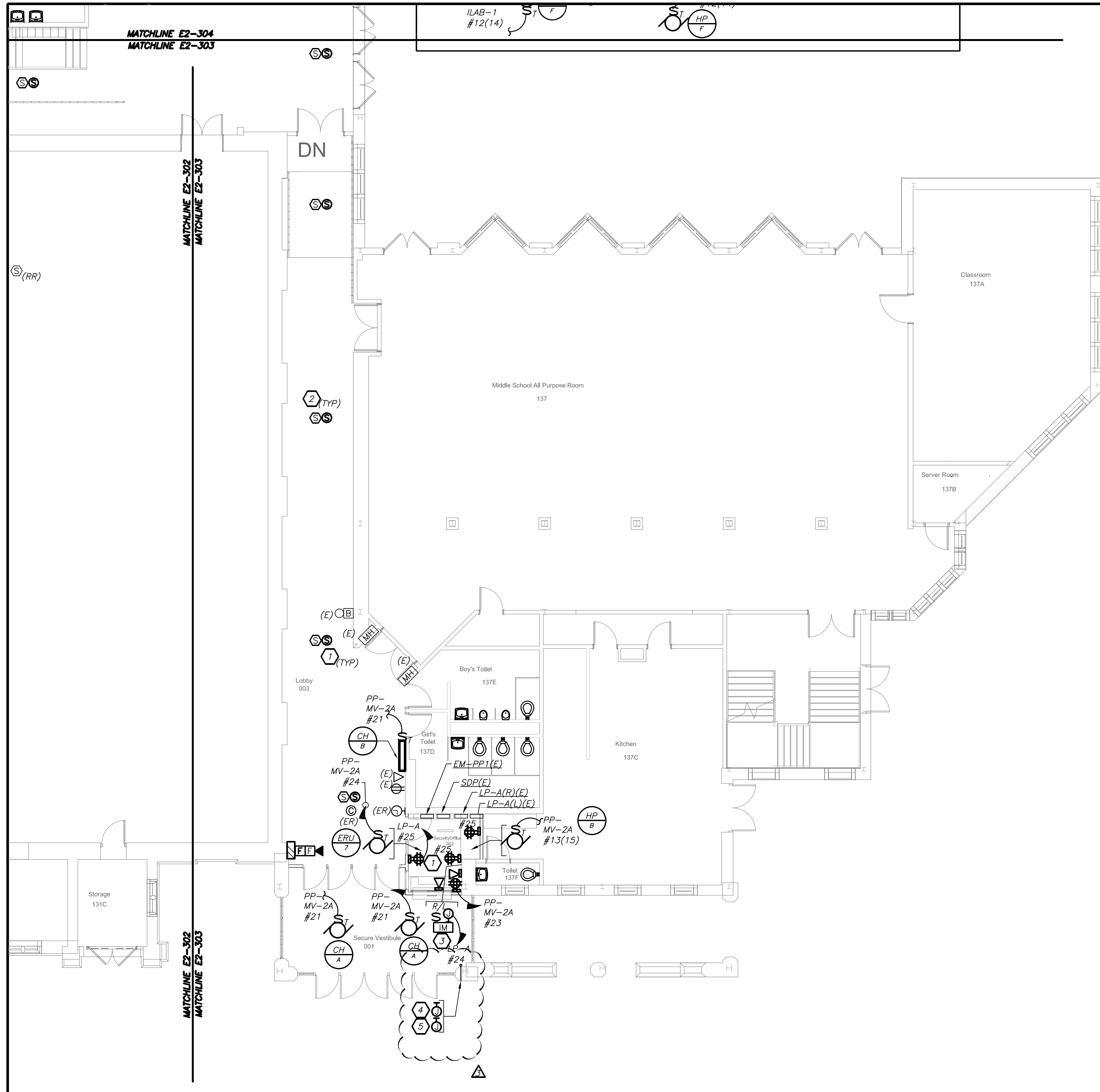


**GENERAL NOTES:**

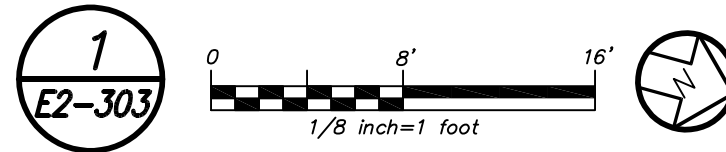
1. REFER TO ELECTRICAL RISER DIAGRAMS ON DRAWING E2-501 FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULES ON DRAWINGS E2-601 FOR BRANCH CIRCUITING INFORMATION.
3. REFER TO DRAWINGS E700 SERIES FOR DETAILS.
4. EXISTING BUILDING HAS FULL FIRE ALARM COVERAGE CONSISTING OF MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, HORN/STROBES, STROBES, MAGNETIC DOOR HOLDERS ETC. AREAS OF WORK ONLY SHOWN WITH NECESSARY MODIFICATIONS.
5. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.

**WORK NOTES:**

1. PROVIDE NEW PUBLIC ADDRESS SYSTEM SPEAKERS THROUGH OUT THE CORRIDOR WITH MIN SPACE OF 30' BETWEEN EACH SPEAKERS. PROVIDE ALL NECESSARY ACCESSORIES IN THE HEADEND LOCATED IN THE MAIN OFFICE. PROVIDE NEW PLENUM RATED P.A WIRING ABOVE HUNG CEILING AND PLENUM RATED WIRING IN EMT IN EXPOSED UNFINISHED AREAS AND PLENUM RATED IN WIREMOLD IN EXPOSED FINISHED AREAS.
2. PROVIDE NEW SMOKE DETECTORS IN THE CORRIDORS AS REQUIRED BY CODE. ALL NEW FIRE ALARM WIRING TO BE CONNECTED TO NEAREST EXISTING LOOPS IN THE AREA.
3. PROVIDE POWER FOR FIRE SHUTTERS. AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INSTALLED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
4. PROVIDE SURFACE MOUNTED EXTERIOR FINISHED JUNCTION BOX AT 48" AFF FOR FUTURE CARD READER. CORE DRILL THROUGH STONE WALL AND PROVIDE 3/4" CONDUIT SLEEVE AND TRANSITIONS INTO WIREMOLD 700 UP TO ABOVE NEW SHEETROCK CEILING. WIREMOLD SHALL TRANSITION TO 3/4" CONDUIT AND RUN CONDUIT TO ABOVE CEILING IN LOBBY 003 INCLUDE DRAGWIRE. COORDINATE EXACT LOCATION WITH OWNER BEFORE THE START OF ANY WORK.
5. PROVIDE SURFACE MOUNTED EXTERIOR FINISHED JUNCTION BOX AT 60" AFF FOR FUTURE AIR PHONE. CORE DRILL THROUGH STONE WALL AND PROVIDE 3/4" CONDUIT SLEEVE AND TRANSITIONS INTO WIREMOLD 700 UP TO ABOVE NEW SHEETROCK CEILING. WIREMOLD SHALL TRANSITION TO 3/4" CONDUIT AND RUN CONDUIT TO ABOVE CEILING IN LOBBY 003 INCLUDE DRAGWIRE. COORDINATE EXACT LOCATION WITH OWNER BEFORE THE START OF ANY WORK.



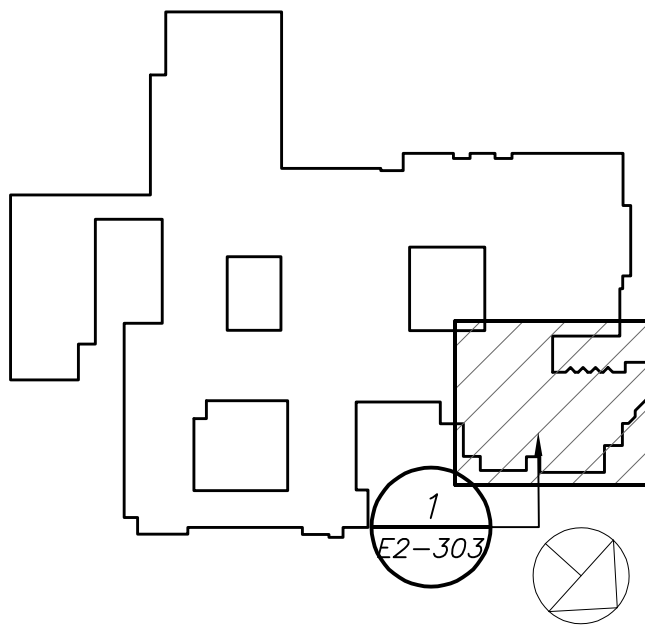
**PARTIAL FIRST FLOOR POWER PLAN**  
(NEW WORK) (PROJECT 1)



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**Revision Schedule**

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12 Cold Spring Street

Providence, RI

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SED #: 6618-0001-0005-031

**PROJECT**

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle

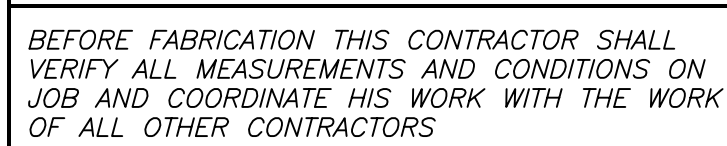
School

1 Parsons Street, Rye, New York 10580

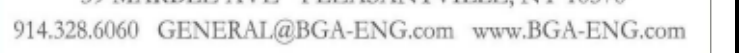
**HIGH SCHOOL & MIDDLE  
SCHOOL PART FIRST FLOOR  
POWER AND FA PLAN**

**PROJECT 1**

SEAL & SIGNATURE	DATE: 11/07/19
	PROJECT No: 9200
	DRAWING BY: BGA
	CHK BY: BGA
	DWG No: E2-303

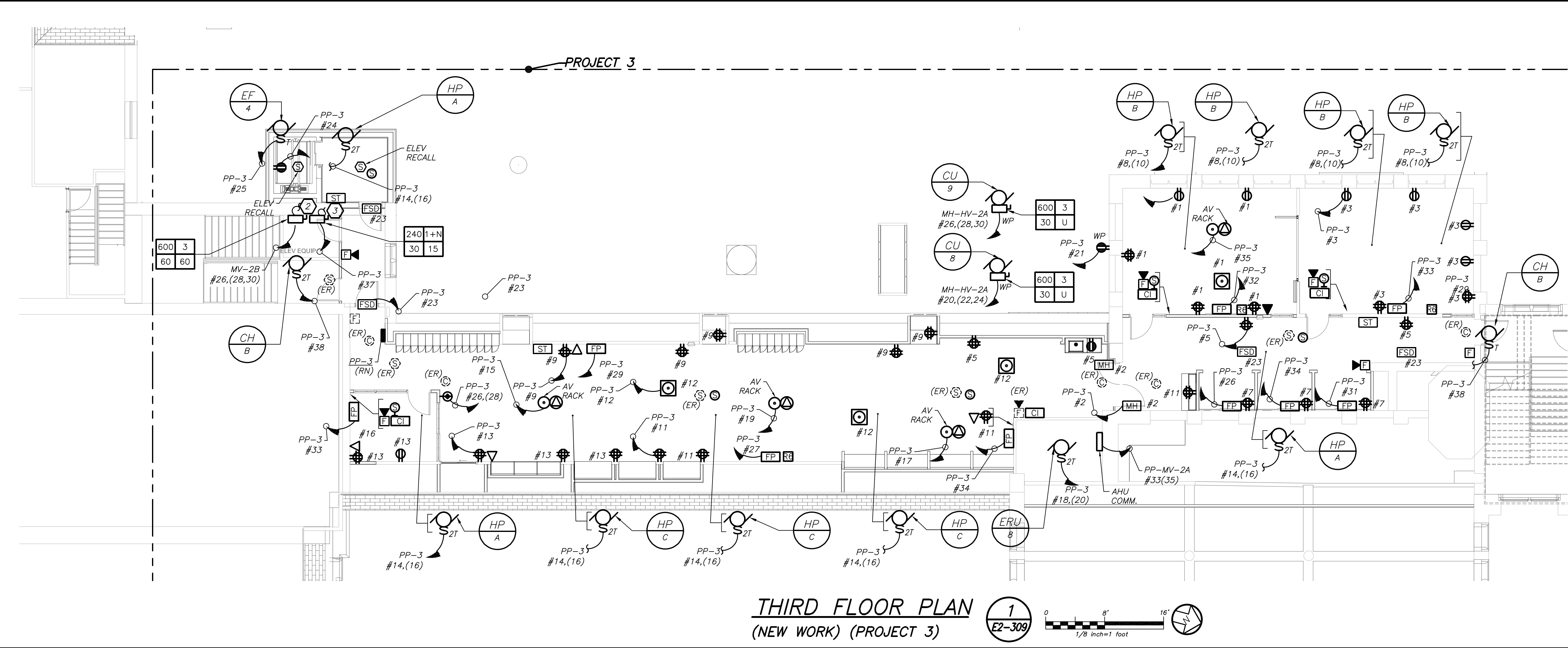


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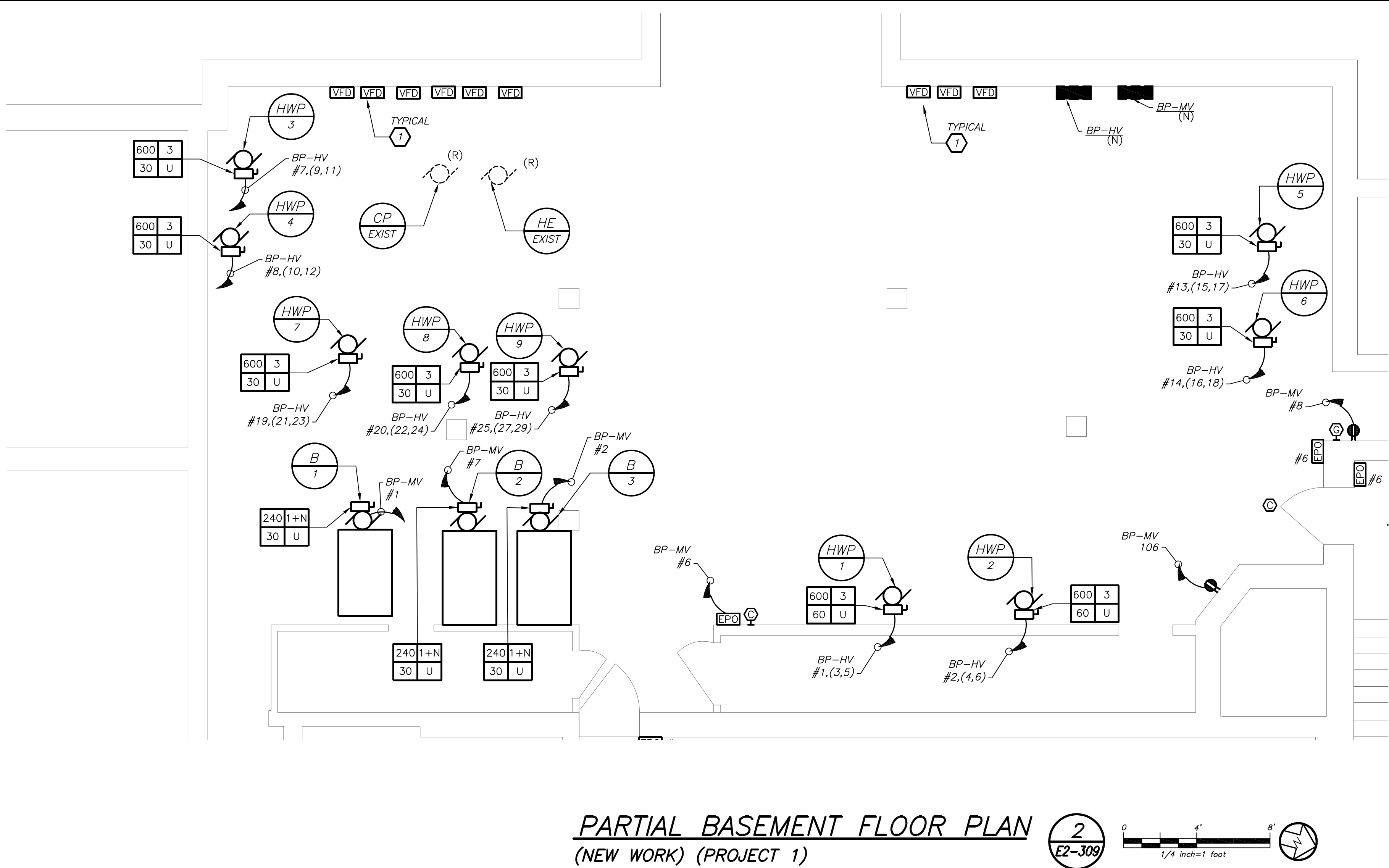
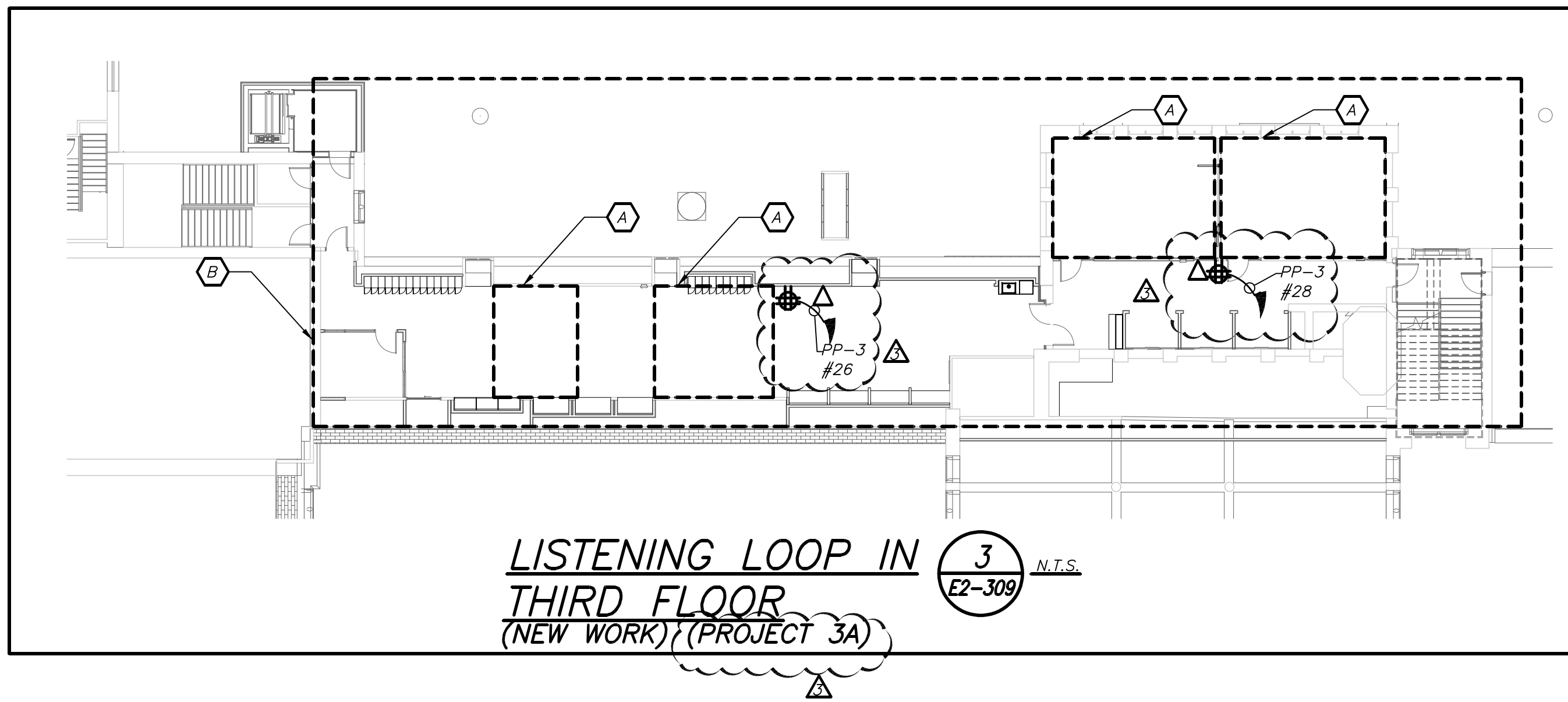
Acoustic Consultant  
DP DESIGN  
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401-861-3218

SEAL & SIGNATURE	DATE:	11/07/19
	PROJECT No:	9200
	DRAWING BY:	BGA
	CHK BY:	BGA
	DWG No:	E2-304



**WORK NOTES:**

- A ELECTRICAL CONTRACTOR SHALL CHOP UP FLOOR TO PROVIDE TELECOIL LOOP. REFER TO AV DRAWING FOR MORE DETAILS ON SCOPE OF THE LOOP.
- B COORDINATE EXACT FINAL MOUNTING LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANY WORK. DO NOT START INSTALLATION UNTIL YOU HAVE A SIGN OFF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.



**GENERAL NOTES:**

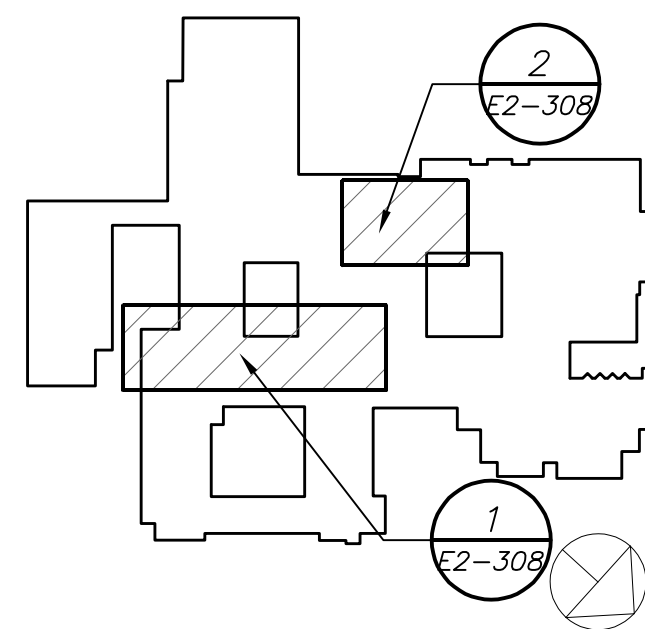
- REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER.
- COORDINATE EXACT FINAL LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANYWORK. ELECTRICAL CONTRACTOR SHALL NOT START INSTALLATION UNTIL YOU THEY HAVE A SIGN OFF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER.

**WORK NOTES:**

- 1 ELECTRICAL CONTRACTOR SHALL CONNECT VFD TO EACH HOT WATER PUMP.
- 2 PROVIDE 2#18 WITH DRY CONTACTS FROM PANEL MH-HV-2B TO DISCONNECT.
- 3 PROVIDE 2#18 WITH DRY CONTACTS FROM PANEL PP-3 TO DISCONNECT.
- 4 PROVIDE RECEPTACLE FOR CHEMICAL FEED, COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK.

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Acoustic Consultant

DP DESIGN

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SED #: 6618-0001-0005-031

PROJECT

Rye City School District

555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle

School

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE  
SCHOOL PART THIRD FLOOR  
AND BASEMENT POWER AND  
FA PLAN

PROJECT 1, 3, 3A

SEAL & SIGNATURE

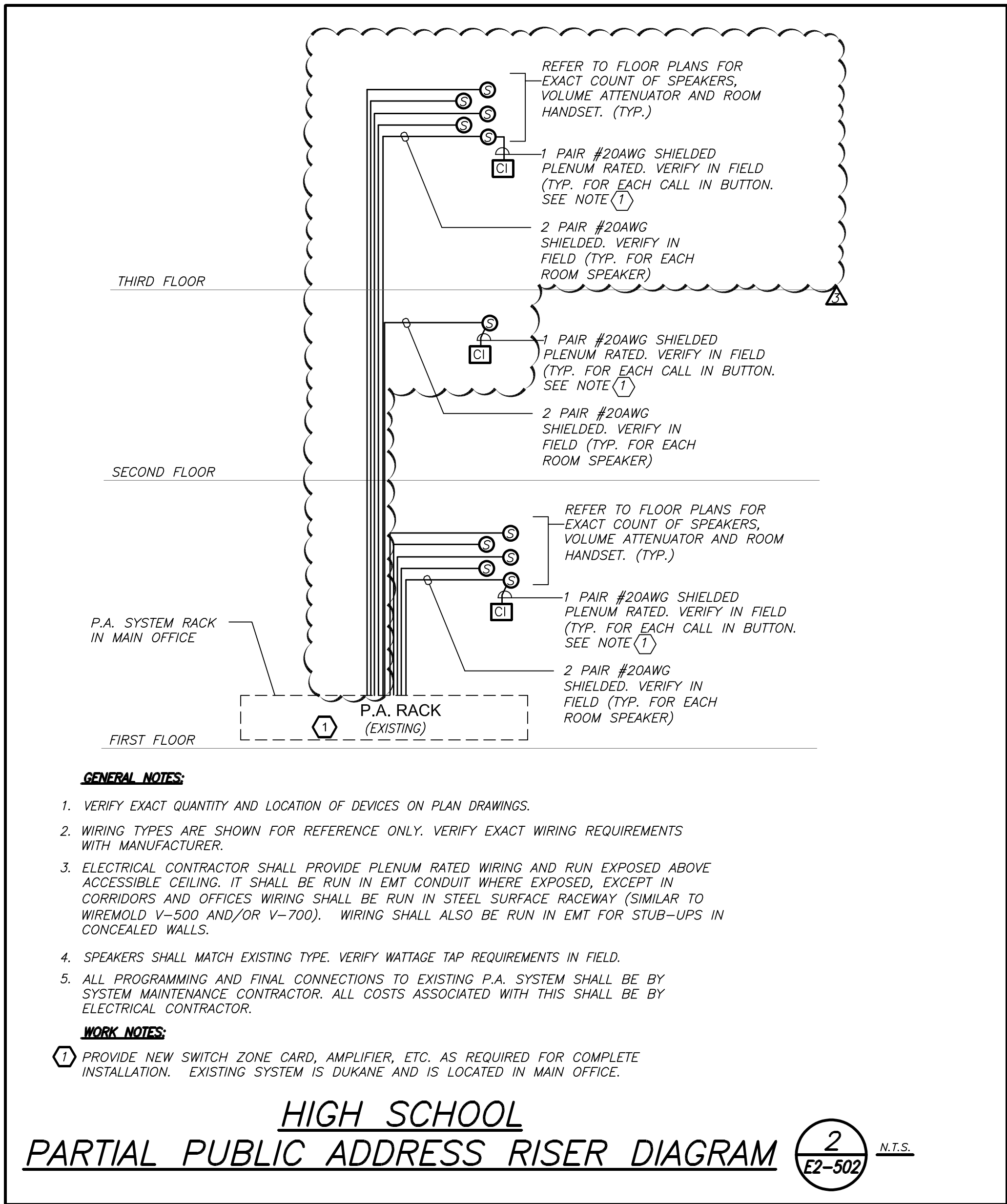
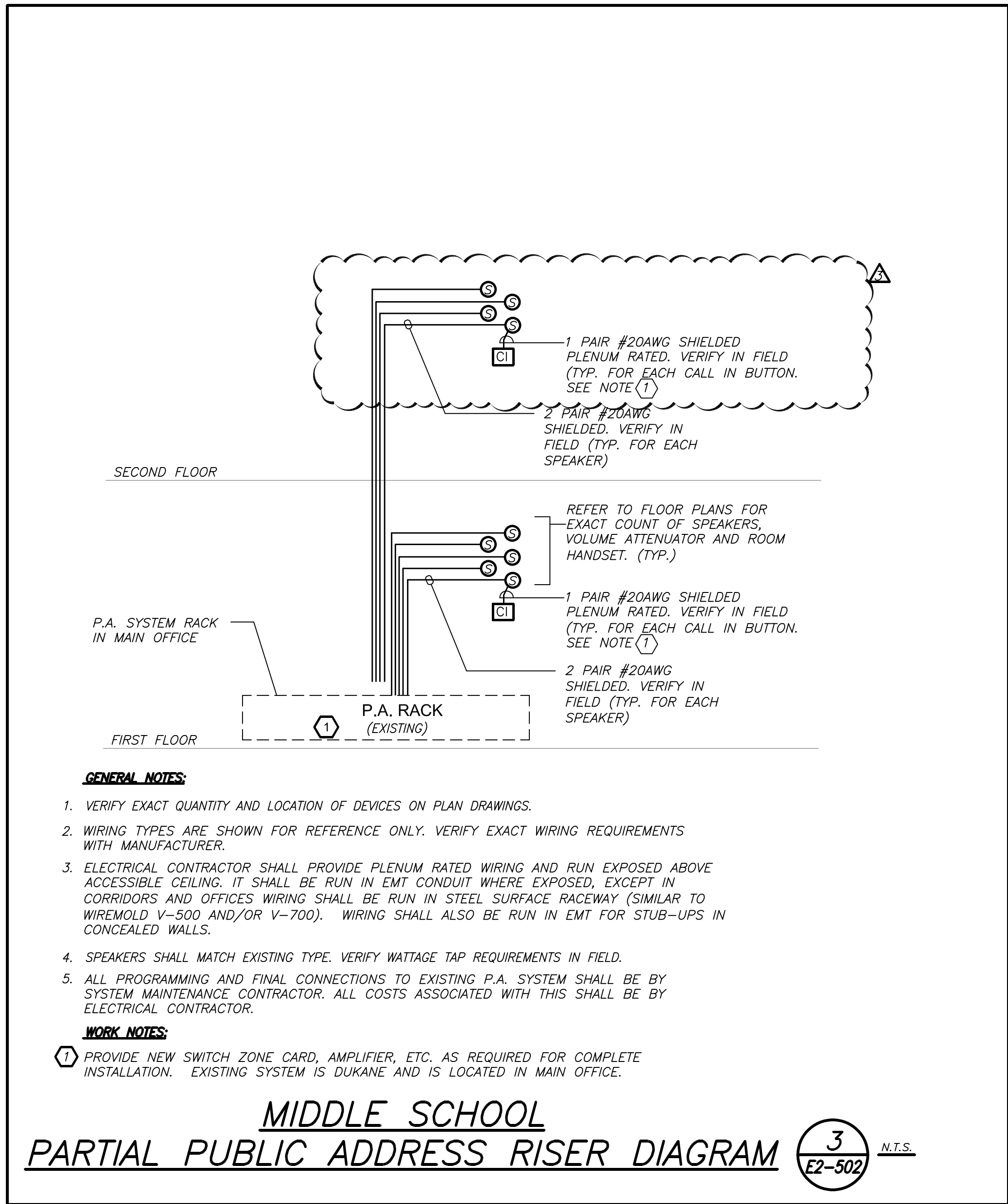
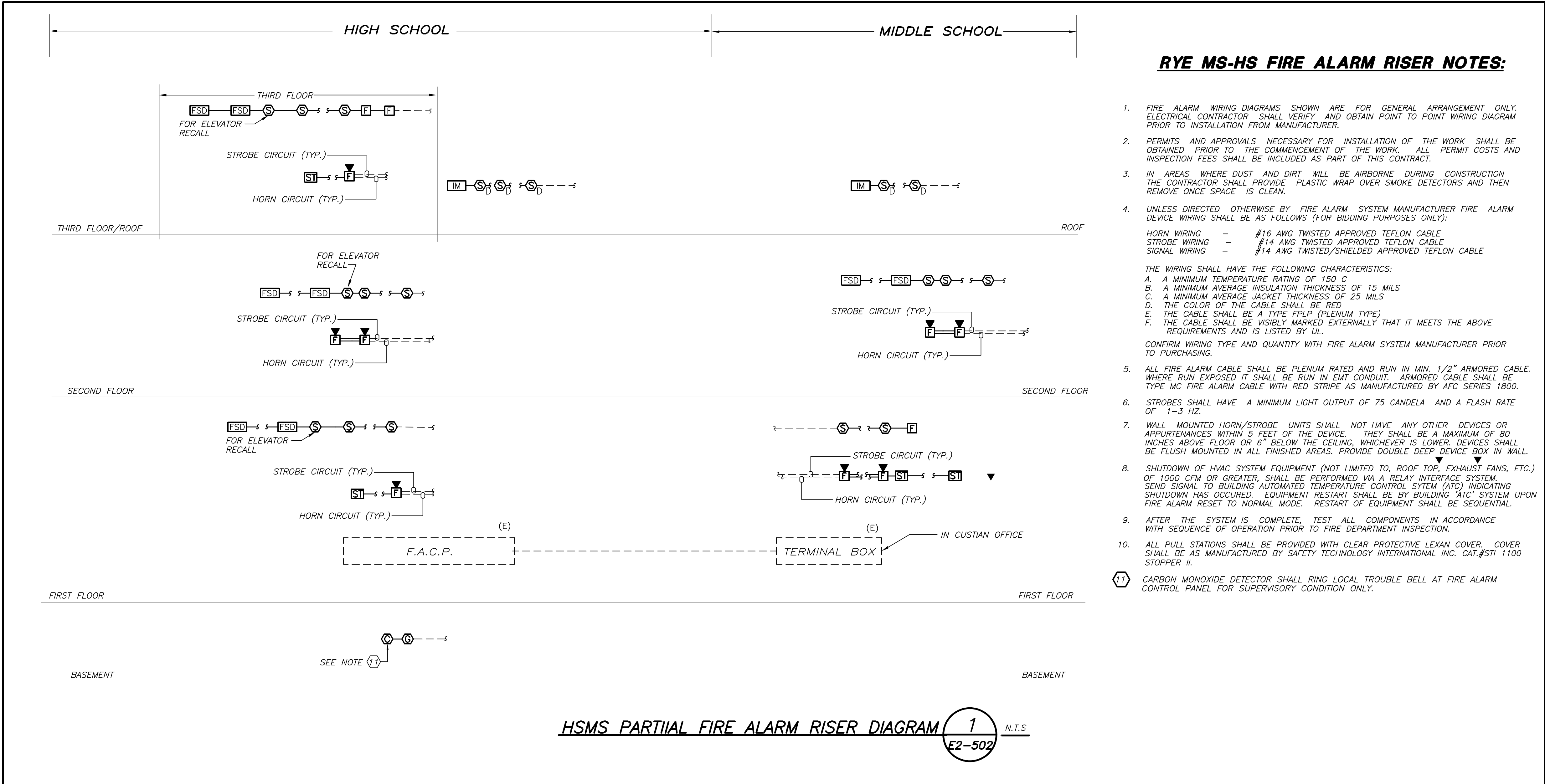
DATE: 11/07/19

PROJECT No: 9200

DRAWING BY: BGA

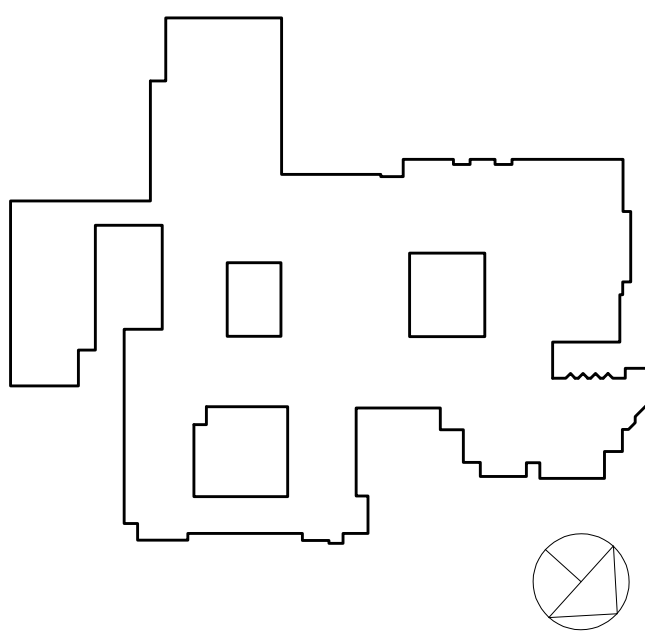
CHK BY: BGA

DWG No: E2-309



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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401-861-3218

SED #: 6618-0001-0005-031

PROJECT  
**Rye City School District**  
555 Theodore Fremd Ave, Rye, NY 10580  
**Rye High School & Middle School**  
1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL  
FA AND PA RISER

SEAL & SIGNATURE DATE: 11/07/19  
PROJECT No: 9200  
DRAWING BY: BGA  
CHK BY: BGA  
DWG No: E2-502

(NEW)		ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)									
PANEL: BP-HV		MOUNTING: SURFACE	X	MAIN LUGS ONLY			MAIN C BKR			GROUND BUS:	
480Y/277, 3 PHASE, 4 WIRE		(NEMA 1)	FLUSH	DOUBLE LUGS			200A/3P			ISOLATED GROUND BUS:	
22 000MVA A.C. SYM			IN MCC	FEED THRU LUG			MAIN BUS			TVSS:	
NEUTRAL: 100%				SHUNT TRIP MAIN			200 A			NUMBER OF POLES:	
CKT	TRIP	LOAD		WIRE	CND.	KVA / PHASE	CND.	WIRE	LOAD	TRIP	CKT
No.	(AMP)			(IN.)	A	B	C	(IN.)	A	B	C
1	3			-	-	10.8		-	-		
3		HWP-1		3/4	1812	10.8		3/4	1812	HWP-2	
5	50			-	-	10.8		-	-		
7	3			-	-	7.21		-	-		
9		HWP-3		3/4	1812	7.21		3/4	1812	HWP-4	
11	30			-	-	7.21		-	-		
13	3			-	-	7.21		-	-		
15		HWP-5		3/4	1812	7.21		3/4	1812	HWP-6	
17	30			-	-	7.21		-	-		
19	3			-	-	0.69		-	-		
21		HWP-7		3/4	1812	0.69		3/4	1812	HWP-8	
23	20			-	-	0.69		-	-		
25	3			-	-	0.69		-	-		
27		HWP-9		3/4	1812	0.69		-	-		
29	20			-	-	0.69		-	-		
31	20	SPARE		-	-			-	-	SPARE	
33	20	SPARE		-	-			-	-	SPARE	
35	20	SPARE		-	-			-	-	SPARE	
37	20	SPARE		-	-			-	-	SPARE	
39	20	SPARE		-	-			-	-	SPARE	
41	20	SPARE		-	-			-	-	SPARE	
SUBTOTALS				26.6	26.6			0.7	0.7	0.7	
TOTAL LOADS				27.3 KVA	PHASE A			LIGHTING:		0.00 KVA	
				27.3 KVA	PHASE B			RECEPTACLE:		0.00 KVA	
				27.3 KVA	PHASE C			KITCHEN:		0.00 KVA	
TOTAL CONN. LOAD				82 KVA	99 A			MOTOR:		81.99 KVA	
TOTAL DEMAND LOAD				82 KVA	99 A			POWER:		0.00 KVA	
								TOTAL:		81.99 KVA	

(NEW)		ELECTRICAL PANEL SCHEDULE (HIGH SCHOOL)									
PANEL: MP-HV-2A		MOUNTING: SURFACE	X	MAIN LUGS ONLY			MAIN C BKR			GROUND BUS:	
480Y/277, 3 PHASE, 4 WIRE		(NEMA 1)	FLUSH	DOUBLE LUGS			800A/3P			ISOLATED GROUND BUS:	
85 000MVA A.C. SYM			IN MCC	FEED THRU LUG			MAIN BUS			TVSS:	
NEUTRAL: 100%				SHUNT TRIP MAIN			800 A			NUMBER OF POLES:	
CKT	TRIP	LOAD		WIRE	CND.	KVA / PHASE	CND.	WIRE	LOAD	TRIP	CKT
No.	(AMP)			(IN.)	A	B	C	(IN.)	A	B	C
1	3			-	-	4.5		-	-		
3		CU-8		3/4	1812	4.5		3/4	1812	RTU-1	
5	25			-	-	4.5		-	-		
7	3			-	-	4.5		-	-		
9		CU-9		3/4	1812	4.5		3/4	1812	RTU-2	
11	25			-	-	4.5		-	-		
13	3			-	-	11.4		-	-		
15		CU-6		3/4	1812	11.4		3/4	1812	CU-13	
17	50			-	-	11.4		-	-		
19	3			-	-	8.80		-	-		
21		ERU-6		3/4	1812	8.80		3/4	1812	CU-5	
23	35			-	-	8.80		-	-		
25	20	SPARE		-	-			-	-	SPARE	
27	20	SPARE		-	-			-	-	SPARE	
29	20	SPARE		-	-			-	-	SPARE	
31	20	SPARE		-	-			-	-	SPARE	
33	20	SPARE		-	-			-	-	SPARE	
35	20	SPARE		-	-			-	-	SPARE	
37	20	SPARE		-	-			-	-	SPARE	
39	20	SPARE		-	-			-	-	SPARE	
41	20	SPARE		-	-			-	-	SPARE	
SUBTOTALS				25.2	25.2			52.5	52.5		
TOTAL LOADS				81.7 KVA	PHASE A			LIGHTING:		0.00 KVA	
				81.7 KVA	PHASE B			RECEPTACLE:		0.00 KVA	
				81.7 KVA	PHASE C			KITCHEN:		0.00 KVA	
TOTAL CONN. LOAD				245 KVA	295 A			MOTOR:		245.10 KVA	
TOTAL DEMAND LOAD				245 KVA	295 A			POWER:		0.00 KVA	
								TOTAL:		245.10 KVA	

(NEW)		ELECTRICAL PANEL SCHEDULE									
PANEL: PP-SEC		MOUNTING: SURFACE	X	MAIN LUGS ONLY			MAIN C BKR			GROUND BUS:	
480Y/277, 3 PHASE, 4 WIRE		(NEMA 1)	FLUSH	DOUBLE LUGS			100A/3P			ISOLATED GROUND BUS:	
22 000MVA A.C. SYM			IN MCC	FEED THRU LUG			MAIN BUS			TVSS:	
NEUTRAL: 100%				SHUNT TRIP MAIN			225 A			NUMBER OF POLES:	
CKT	TRIP	LOAD		WIRE	CND.	KVA / PHASE	CND.	WIRE	LOAD	TRIP	CKT
No.	(AMP)			(IN.)	A	B	C	(IN.)	A	B	C
1	20	SEC RECEPT		3/4	1812	3/4		3/4	1812	ENTRANCE RECEPT	20
3	20	SEC RECEPT		3/4	1812	3/4		3/4	1812	DRINKING FOUNTAIN	20
5	20	SEC RECEPT		3/4	1812	3/4		0.10	3/4	1812	ERU-10
7	20	SEC RECEPT		3/4	1812	3/4		0.10	3/4	1812	HP-B
9	2	ERU-3		3/4	1812	3/4	1.04	1.00	3/4	1812	FIRE DOOR
11	15			-	-	1.04		1.00	3/4	1812	CP-1
13	20	SPARE		-	-	0.50		0.50	3/4	1812	EF-5
15	20	SPARE		-	-			0.50	3/4	1812	SPARE
17	20	SPARE		-	-			-	-	SPARE	
19	20	SPARE		-	-			-	-	SPARE	
21	20	SPARE		-	-			-	-	SPARE	
23	20	SPARE		-	-			-	-	SPARE	
25	20	SPARE		-	-			-	-	SPARE	
27	20	SPARE		-	-			-	-	SPARE	
29	20	SPARE		-	-			-	-	SPARE	
31	20	SPARE		-	-			-	-	SPARE	
33	20	SPARE		-	-			-	-	SPARE	
35	20	SPARE		-	-			-	-	SPARE	
37	20	SPARE		-	-			-	-	SPARE	
39	20	SPARE		-	-			-	-	SPARE	
41	20	SPARE		-	-			-	-	SPARE	
SUBTOTALS				0.50	1.04	1.04		1.10	0.60	1.18	
TOTAL LOADS				1.6 KVA	PHASE A			LIGHTING:		0.00 KVA	
				1.6 KVA	PHASE B			RECEPTACLE:		0.00 KVA	
				2.2 KVA	PHASE C			KITCHEN:		0.00 KVA	
TOTAL CONN. LOAD				5.5 KVA	14.0 A			MOTOR:		3.58 KVA	
TOTAL DEMAND LOAD				5.0 KVA	14.0 A			POWER:		1.60 KVA	
								TOTAL:		4.98 KVA	

LIGHTING FIXTURE SCHEDULE				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
R1	CEILING RECESSED MOUNTED	31 WATTS LED UNV	2X2 RECESSED FIXTURES . 4000 LUMENS, 3500K COLOR TEMP. 80 CRI. WITH DRYWALL ADAPTER	MANUFACTURER: LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K-MINI-2T-MVOLT-E10WCP-GG2
R1	CEILING RECESSED MOUNTED	31 WATTS LED UNV	SAME AS FIXTURE "R1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K-MINI-2T-MVOLT-E10WCP-GG2
R2	CEILING RECESSED MOUNTED	46 WATTS LED UNV	2X2 RECESSED FIXTURES . 4800 LUMENS, 3500K COLOR TEMP. WITH GRID ADAPTOR.	MANUFACTURER: MARK LIGHTING WHSPR-2X2-90CRI-35K-4800LM-MINI-MVOLT-SWC
R2	CEILING RECESSED MOUNTED	46 WATTS LED UNV	SAME AS FIXTURE "R2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: MARK LIGHTING WHSPR-2X2-90CRI-35K-4800LM-MINI-MVOLT-SWC
R4	CEILING RECESSED MOUNTED	10 WATTS LED UNV	6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R4	CEILING RECESSED MOUNTED	10 WATTS LED UNV	SAME AS FIXTURE "R4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R4B	CEILING RECESSED MOUNTED	20 WATTS LED UNV	6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.	MANUFACTURER: CALIBER PLUS 6SQLBV-20-35K-E1-DA
R4B	CEILING RECESSED MOUNTED	20 WATTS LED UNV	SAME AS FIXTURE "R4B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: CALIBER PLUS 6SQLBV-20-35K-E1-DA
R5	CEILING RECESSED MOUNTED	10 WATTS LED UNV	6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R5	CEILING RECESSED MOUNTED	10 WATTS LED UNV	SAME AS FIXTURE "R5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA
R8	CEILING RECESSED MOUNTED	14 WATTS LED UNV	4" ROUND RECESSED DOWNLIGHT-STATIC WHITE FINISH. 80 CRI. 3500 COLOR TEMPERATURE.	MANUFACTURER: LUMENWERX V04RR-0F-ADJ-UNV-14W-D1-V04-SW-60-2-80-35-LS-V04RRB-SDL-SR-TMW-TRM-TMW
R8	CEILING RECESSED MOUNTED	14 WATTS LED UNV	SAME AS FIXTURE "R8" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: LUMENWERX V04RR-0F-ADJ-UNV-14W-D1-V04-SW-60-2-80-35-LS-V04RRB-SDL-SR-TMW-TRM-TMW
R9	CEILING RECESSED MOUNTED	12 WATTS LED UNV	15/16" 35K COLOR TEMPERATURE. 80 CRI.	MANUFACTURER: TBAR FLEX MODEL #TBLF-MW-22-24-D-A-W
R9	CEILING RECESSED MOUNTED	12 WATTS LED UNV	SAME AS FIXTURE "R9" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: TBAR FLEX MODEL #TBLF-MW-22-24-D-A-W
R10	SURFACE RECESSED MOUNTED	1.4 W/FT LED 24V	FLEXIBLE LIGHTING SYSTEM. 80 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 80 CRI.	MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67
R10	SURFACE RECESSED MOUNTED	1.4 W/FT LED 24V	SAME AS FIXTURE "R10" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67
P1	CEILING PENDANT MOUNTED	50 WATTS LED UNV	8" PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 8 FEET LONG.	MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35-W-UNV
P1	CEILING PENDANT MOUNTED	50 WATTS LED UNV	SAME AS FIXTURE "P1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35-W-UNV
P2	CEILING PENDANT MOUNTED	50 WATTS LED UNV	6" PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 6 FEET LONG.	MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35-W-UNV
P2	CEILING PENDANT MOUNTED	50 WATTS LED UNV	SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35-W-UNV
P3	CEILING PENDANT MOUNTED	35 WATTS LED UNV	4"PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 4 FEET LONG.	MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35-W-UNV
P3	CEILING PENDANT MOUNTED	35 WATTS LED UNV	SAME AS FIXTURE "P3 EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35-W-UNV
P4	CEILING PENDANT MOUNTED	87 WATTS LED UNV	CONTINUOUS LINEAR SLOT DIRECT/INDIRECT WALL LIGHT. 400 LUMENS PER FOOT DIRECT AND 600 LUMENS PER FOOT INDIRECT. 35K COLOR TEMPERATURE. 90 CRI. LENGTHS AS PER PLAN	MANUFACTURER: MARK LIGHTING S1LDP-OPP-PPR-FLAN-90CRI-35K-200LMF-180CRI-15K-1400LMF-MINI-MVOLT-WHT-36A-ROCY-WHTCY-WCRD
P4	CEILING PENDANT MOUNTED	87 WATTS LED UNV	SAME AS FIXTURE "P4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: MARK LIGHTING S1LDP-OPP-XXYT-90CRI-35K-200LMF-180CRI-15K-1400LMF-MINI-MVOLT-WHT-36A-ROCY-WHTCY-WCRD
P5-B	CEILING PENDANT MOUNTED	45 WATTS LED UNV	20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE.	MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-G-SSM-N-T-35K
P5-B	CEILING PENDANT MOUNTED	45 WATTS LED UNV	SAME AS FIXTURE "P5-B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-G-SSM-N-T-35K
P5-W	CEILING PENDANT MOUNTED	45 WATTS LED UNV	20" DIAMETER X 5" HEIGHT. WHITE IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE.	MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-WH-SSM-N-T-35K
P5-W	CEILING PENDANT MOUNTED	45 WATTS LED UNV	SAME AS FIXTURE "P5-W" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-WH-SSM-N-T-35K
P5-G	CEILING PENDANT MOUNTED	45 WATTS LED UNV	20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE.	MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-G-SSM-N-T-35K
P5-G	CEILING PENDANT MOUNTED	45 WATTS LED UNV	SAME AS FIXTURE "P5-G" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-G-SSM-N-T-35K
P6	CEILING PENDANT MOUNTED	3 WATTS LED UNV	DECORATIVE PENDENT . CYLINDER DIFFUSER. 9" STEM LENGTH. 35K COLOR TEMPERATURE. BRUSHED ALUMINUM FINISH.	MANUFACTURER: ACUTY BRANDS- HEALTHCARE LIGHTING #HPPI-95T-MVOLT-CYL-LRG-35K-ZT-WINS-INT-BA
P6	CEILING PENDANT MOUNTED	3 WATTS LED UNV	SAME AS FIXTURE "P6" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: ACUTY BRANDS- HEALTHCARE LIGHTING #HPPI-95T-MVOLT-CYL-LRG-35K-ZT-WINS-INT-BA
WM1	SURFACE WALL MOUNTED	20 WATTS LED UNV	8" LINEAR SLOT INDIRECT WALL LIGHT. 400 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 90 CRI.	MANUFACTURER: MARK LIGHTING MODEL #S1LW-LLP-8FT-MSLB-180CRI-15K-1400LMF-MINI-MVOLT-WHT-ZT-DCF
WM1	SURFACE WALL MOUNTED	20 WATTS LED UNV	SAME AS FIXTURE "WM1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.	MANUFACTURER: MARK LIGHTING MODEL #S1LW-LLP-8FT-MSLB-180CRI-15K-1400LMF-MINI-MVOLT-WHT-ZT-DCF