
ADDENDUM No. 9 – March 7, 2019

GENERAL

This addendum modifies, amends, and supplements designated parts of the Contract Documents for the above project and is hereby made part thereof by reference and shall be as binding as though inserted in locations designated hereunder.

It shall be the responsibility of the bidders to notify all subcontractors and suppliers he proposes to use for the various parts of the work for any changes or modifications contained in this addendum. No claim for additional compensation because of lack of knowledge of the contents of this addendum will be considered.

*****PLEASE NOTE THAT ELEVATED GAS PRESSURE PIPING PLANS ARE BEING ISSUED IN THIS ADDENDUM AND INCLUDED IN THE CONTRACT DOCUMENTS. THESE WILL TAKE THE PLACE OF ALL GAS PIPING INDICATED THROUGHOUT THE BUILDING. NOTE THAT THESE PLANS ONLY INDICATED GAS PIPING AND ANY GAS VENTS REQUIRED. THEY HAVE BEEN APPROVED BY EVERSOURCE AND THE WORCESTER PLUMBING INSPECTOR.**

*****PLEASE NOTE THAT SELECTED HVAC AND PLUMBING DRAWINGS WERE FOUND TO BE NOT TO SCALE AND ARE BEING REPLACED IN THEIR ENTIRETY AT THE CORRECT SCALE. REFER TO THE PLUMBING AND HVAC DRAWINGS SECTION OF THIS ADDENDUM #9 FOR SHEET NAMES AND NUMBERS.**

SPECIFICATIONS

1. DOCUMENT 00 01 15 – LIST OF DRAWING SHEETS

Page 9, PLUMBING

Insert at end:

PG3.2	Ground Floor Gas Piping Plumbing Plan Section B2
PG3.3	First Floor Gas Piping Plumbing Plan Section A
PG3.4	First Floor Gas Piping Plumbing Plan Section AB
PG3.7	Second Floor Gas Piping Plumbing Plan Section A
PG3.8	Second Floor Gas Piping Plumbing Plan Section AB
PG3.11	Third Floor Gas Piping Plumbing Plan Section A
PG3.12	Third Floor Gas Piping Plumbing Plan Section AB

2. DOCUMENT 00 21 13 – INSTRUCTIONS TO BIDDERS

Page 6, SECTION 10 – BID DEPOSIT, 10.1

Delete: "and substantially conforming to the sample contained in the Contract Documents"

3. DOCUMENT 00 73 00 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Page 5, Section 1, sub-section 45

Delete: "and shuttling, if required, shall be paid for and arranged by subcontractors."

Insert: "is available at 194 Oxford Street N, Auburn, MA. Shuttling shall be paid for and arranged by subcontractors." in its place

Page 5, Section 2. Procedures and Requirements for Submission of Bids

Insert: **"4. Trade Contractors are reminded that per the bid form issued in Addendum No 8, Trade Contractors listing Paragraph E sub bidders are required to certify as part of their bid that they have prequalified the sub-trade (Paragraph E) subcontractors listed. Bidders are further informed that prequalification criteria utilized by the trade contractor when prequalifying sub-trade subcontractors should include Management Experience, References, and Capacity to Complete.**

Page 11, Section 11, sub-section 1a

Delete second sentence in its entirety that begins with "Costs"

Insert: "Off-site parking is available at 194 Oxford Street N, Auburn, MA. Contractors shall provide their own shuttles to and from the jobsite. Shuttles may be parked overnight at the off-site parking lot. There shall be no storage of material or equipment at the off-site parking lot." in its place

Page 24, 14, M, 10

Delete: "Install and flash"

Insert: "Furnish and install flashing" in its place

Page 39, OO, HVAC, item #1

Insert at end of paragraph: "As noted in the construction schedule the HVAC system will be online in the spring of 2020. The HVAC system will be used while there are still construction activities going on inside the building and the HVAC contractor should plan to protect the system as required."

4. SECTION 01 12 00 – PROJECT PHASING REQUIREMENTS

Page 4, 3.3, A

Delete: "PHASE 2B – August 2021 – November 2021"

Insert: "PHASE 3 – August 2021 – November 2021"

5. APPENDIX N

Delete: Phasing Plans 2, 2A, 2B, 3 and 3A in their entirety.

Insert: Revised Phasing Plans 2, 2A, 3 and 3A (refer to Attachments) in their place.

6. SECTION 04 00 01 – MASONRY TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 1

Insert after "A11.3": "A11.4"

Page 3, 1.2, F, 2

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,"

7. SECTION 04 20 00 – UNIT MASONRY

Page 1, 1.2, A, 4

Delete: "Masonry Types 1 and 1A."
Insert "all interior and exterior surfaces of Masonry Types 1, 1A, 2 and 2A."

Page 2, 1.2, B, 10

Delete: "or by section requiring the same."
Insert: "furnished and set by other trades." in its place

Page 30

Insert: "3.18 APPLICATION OF ANTI-GRAFFITI COATING

- A. Prepare surfaces to receive anti-graffiti coating in accordance with manufacturer's written instructions. Protect adjacent surfaces and materials from overspray.
- B. Apply 1-coat using low-pressure spray equipment. Saturate "wet-on-wet" spraying from the bottom up. Avoid excessive overlapping.
- C. Let first application penetrate masonry for 2 to 3 minutes. For textured and porous surfaces reapply in same saturating manner to ensure complete coverage.
- D. Immediately brush out runs and drips to prevent buildup.
- E. Protect surfaces from rainfall for six (6) hours following treatment.

8. SECTION 05 00 01 – MISCELLANEOUS AND ORNAMENTAL IRON TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 1

Insert after "A11.3": "A11.4"

Page 3, 1.2, F, 2

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,"

9. SECTION 05 40 00 – COLD-FORMED METAL FRAMING

Page 1, 1.1, A

Insert: "8. Load-bearing formed steel joist interior floor framing at below-catwalk platforms at Auditorium."

10. SECTION 05 50 00 – METAL FABRICATIONS

Page 1, 1.2, B, 4, i

Delete: "Vehicle Exhaust System"
Insert: "Vehicle Exhaust System at Auto/Diesel Shop (6 suspended hose storage reels are required; refer to HVAC drawings and specifications)"

Page 1, 1.2 B. 3.

Delete Sentence: "Metal flooring, handrails, guardrails and mesh, at catwalks, tormentor bars, platforms and loading lofts at Auditorium."

Insert: "Metal flooring, handrails, guardrails, ships ladders, fixed ladders, ladder cages, tormentor bars, suspended universal grid system, platforms and loading lofts at Auditorium."

Page 1, 1.2, B, 4

Delete: "j. Folding glass panel door system"

Page 1, 1.2, B, 4

Delete: "k. Accordion folding fire doors"

Page 1, 1.2, B

Delete: "5. Counter and bench supports"

Page 2, 1.2, B, 13

Delete: "13. Rooftop equipment screen supports"

Insert: "13. C5x3 parapet support outriggers, welded to C3x5 parapet supports at Curtain Wall Types CW2 and CW2A roof overhang"

Page 2, 1.2, B, 32

Delete: "Universal grid supports"

Insert: "Universal grid systems at Auditorium and Art Rooms"

Page 2, 1.2, B

- Insert: "33. Galvanized pipe guardrail post, rail and plate assembly at roof condenser platforms.
34. Galvanized plate at roof access ladder mounting bracket.
35. Aluminum diamond plating with end dams at roof access door thresholds."
36. 4x4 TS Jambs from foundation to underside of structure above at coiling exterior overhead doors OHB026 (Outdoor Storage) and OHB180 (Receiving).
37. Galvanized 3/8" bent plate assembly with slotted holes at head and jambs of overhead doors OHB023 (Auto/Diesel), OHB026 (Outdoor Storage) and OHB180 (Receiving).
38. 1/4"x6" Galvanized bent plate clips with slotted holes at OHB026 (Outdoor Storage) and OHB180 (Receiving).
39. Continuous galvanized L 3 1/2"x 3" x 1/4" at head condition of overhead doors OHB023 (Auto/Diesel), OHB026 (Outdoor Storage) and OHB180 (Receiving)."

Page 3, 1.2, C

Insert at end: "7. Anodized aluminum components at flag support system in Upper Lobby B200; installed under Section 09 84 00 – ACOUSTICAL ROOM COMPONENTS."

Page 4, 1.4, K

Delete: "Wood tops at exterior benches"

Insert: "Wood tops and related galvanized/stainless steel brackets, sleepers and other hardware at exterior benches" in its place.

Page 4, 1.4, L

Delete: "Plastic laminate counters requiring fabricated steel supports"

Insert: "Plastic laminate and solid surface counters/benches, including prefabricated counter/bench supports" in its place.

Page 27, 3.9, G

Delete: "Roof access ship's ladder"

Insert: "Auditorium catwalk and interior roof level ship's ladder" in its place.

Page 27, 3.9, G, 1

Delete in its entirety.

Insert: "1. Ship's ladder: Factory engineered and prefabricated aluminum ship's ladder, angle as indicated on Drawings, and conforming to the following:"
in its place

Page 28, 3.9 G.9.a

Delete: ", product "Model 523""

Page 28, 3.9 G.9.b

Delete: ", product "Walk-Thru 75 Degree, Model SL""

Page 28, 3.9 G.9.c

Delete: ", product Standard Model 75 SLL-75"

11. SECTION 06 10 00 – ROUGH CARPENTRY

Page 1, 1.1, B, 7, a

Insert: "Fire retardant treated wood at all" before "Curtain".

Page 1, 1.1, B, 7, b

Insert: "Pressure preservative treated wood at all" before "Roofing".

Page 1, 1.1, B, 7, c

Insert: "Pressure preservative treated wood at all" before "Blocking".

Page 14, 3.8, A, 2

Insert: "curtain wall, windows, louvers, doors," after "boards,".

12. SECTION 06 20 00 – FINISH CARPENTRY

Page 3, 1.4, A, 2, a

Delete in its entirety.

Page 4, 1.5, C

Delete in its entirety.

Reletter "D" to "C"

Page 5, 2.1, B

Delete in its entirety.

Reletter "C" to "B"

Page 6, 2.2, C, 1

Delete in its entirety.

Insert: "1. Shelving: 3/4 inch particleboard with plastic laminate finish at all exposed edges; front edge shall receive 3mm thick PVC banding.

13. SECTION 06 20 14 – EXTERIOR WOOD SEATING

Page 4, 2.1, A

Delete in its entirety

Insert: “A. All galvanized/stainless steel brackets, sleepers and other hardware required for exterior site benches detailed on Site-Landscape drawings shall be furnished and installed by this Section 06 20 14 Exterior Wood Seating; however it shall comply with the material and installation requirements of Section 05 50 00 Metal Fabrications.”

14. SECTION 06 40 00 – ARCHITECTURAL WOODWORK

Page 8, 2.2, C

Insert (at end of paragraph): “Multiple color selections will be required.”

Page 9, 2.3, C, 1

Delete in its entirety.

Renumber “2” to “1”

Page 14, 2.6

Insert: “G. Hardware for composite metal panels:

1. Pulls: 1 inch brushed satin nickel steel tab pull, 3/4 inch wide as manufactured by Top Knobs model TK101BSN. Provide one pull tab per panel.”

15. SECTION 06 61 16 – SOLID SURFACING FABRICATIONS

Page 4, 2.2, A, 2, a

Delete: “Basis of design colors shall be as selected from Corian “Price Code D (2013)” or approved equal”.

Insert: “Solid surfacing colors shall be selected by the Architect from the manufacturer’s most recent full color range”.

16. SECTION 07 00 01 – WATERPROOFING, DAMPPROOFING AND CAULKING TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 1

Insert after “A11.3”: “A11.4”

Page 3, 1.2, F, 2

Insert after “P4.10”: “PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,”

17. SECTION 07 00 02 – ROOFING AND FLASHING TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 2

Insert after “P4.10”: “PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,”

18. SECTION 07 27 13 – MEMBRANE AIR BARRIERS

Page 1, 1.2, B, 2, b
Delete in entirety.

Page 1, 1.2, B, 2, c
Insert: "and connection to the roof expansion joint air barrier membrane." After "joints".

19. SECTION 07 42 43 – COMPOSITE WALL PANELS

Page 1, 1.1, B, 16

Insert: "a. Two (2) piece metal through wall flashing to continue under curtain wall where composite wall panel siding abuts curtain wall at roof level."

Page 14, 2.9, K, 1

Insert: "f. Spacing, quantities, and layout of thermally insulated façade attachment system as shown on construction documents is to establish the general location of the girts within the assembly. Provide design and shop drawings of assembly based the engineered calculation requirements in conjunction with construction document design intent."

20. SECTION 07 46 46 – FIBER CEMENT SIDING

Page 1, 1.1, A, 10

Insert: "a. Two (2) piece metal through wall flashing to continue under curtain wall where fiber cement siding abuts curtain wall or windows at roof level."

Page 10, 2.5, D, 1.

Insert: "f. Spacing, quantities, and layout of thermally insulated façade attachment system as shown on construction documents is to establish the general location of the girts within the assembly. Provide design and shop drawings of assembly based the engineered calculation requirements in conjunction with construction document design intent."

21. SECTION 07 54 19 – POLYVINYL-CHLORIDE (PVC) ROOFING

Page 2, B

Insert: "5. 20 oz. zinc coated copper through wall flashing piece 2 (counterflashing) for installation over PVC flashing termination as furnished by Section 07 46 46 – FIBER CEMENT SIDING."

22. SECTION 07 61 20 – FIELD-FORMED METAL ROOFING AND CLADDING

Page 1, 1.2, A, 5

Delete in its entirety.

Page 5, 2.3, A, 1, a

Delete: "Sheathing OSB, 7/16"

Insert: "plywood sheathing, 5/8" in its place

23. SECTION 07 71 00 – ROOF SPECIALTIES

Page 7, 2.2, D, 2

Insert at end: "Multiple colors are required."

24. SECTION 08 00 05 – METAL WINDOWS TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 1

Insert after "A11.3": "A11.4"

Page 3, 1.2, F, 2

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,"

25. SECTION 08 00 08 – GLASS AND GLAZING TRADE CONTRACT REQUIREMENTS

Page 1, 1.2, A, 1, a

Delete: "08 00 05"

Insert: "08 00 08" in its place

Page 3, 1.2, F, 1

Insert after "A11.3": "A11.4"

Page 3, 1.2, F, 2

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,"

26. SECTION 08 44 13 – GLAZED ALUMINUM CURTAIN WALL

Page 1, 1.2, A, 3

Delete in its entirety

Page 1, 1.2, A, 8

Delete: "0.40 aluminum"

Insert: "20 oz. zinc-coated copper"

Page 9, 2.5

Insert: "K. Provide and install 20 oz. zinc-coated copper sill flashing at all curtain wall sills except at grade conditions to receive stainless steel sill flashing:

Page 11, 2.11, A

Delete: "A" in its entirety.

Insert: "A. Sill flashing:

1. Sill flashing at grade conditions: Unpolished 26 gage Type 316 stainless steel."
2. Sill flashing at all other locations except grade conditions: 20 oz. zinc-coated copper.
 - a. Copper (99.5% pure), 20 ounce, 0.0216 inch thick, conforming to ASTM specification B370, coated both sides with zinc-tin alloy a minimum of 0.0005 inch thick per side; applied by hot-dip process. Composition of the alloy shall be approximately 50% zinc and 50% tin with trace elements controlled for durability, corrosion resistance and color. Satin finish.
 - b. Solder shall conform to ASTM specification B32 and shall be pure in tin or lead-free, high tin. Surfaces to receive soldering should be chemically cleaned and/or mechanically cleaned to produce bright,

- clear alloy. To ease soldering, a tin-bearing flux may be applied to all surfaces to receive solder.
- c. Fabricate sheet metal fabrications in longest possible lengths. Turn back all exposed edges to form hems. Fabricate vertical faces with bottom edge formed outward and hemmed to provide a drip."

27. SECTION 08 80 00 – GLAZING

Page 9, 2.4, H, 3

Insert: "b. Lock: sliding glass ratchet lock with chrome finish."

28. SECTION 09 00 03 – TILE TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 1

Insert after "A11.3": "A11.4"

Page 3, 1.2, F, 2

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,"

29. SECTION 09 00 06 – RESILIENT FLOORING TRADE CONTRACT REQUIREMENTS

Page 3, 1.2, F, 1

Insert after "A11.3": "A11.4"

Page 3, 1.2, F, 2

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,"

30. SECTION 09 30 13 – CERAMIC TILE

Page 8, 2.2, D

Delete in its entirety.

Page 10, 2.5, B

Delete: "extruded aluminum with satin nickel anodized finish"

Insert: "stainless steel" in its place

31. SECTION 09 66 23 – RESINOUS MATRIX TERRAZZO

Page 1, 1.2, A, 4

Delete in its entirety

Insert: "4. Installation systems, adhesives, mortars, grout, and cementitious self-leveling underlayment."

32. SECTION 09 84 00 – ACOUSTICAL ROOM COMPONENTS

Page 1, 1.1, A, 5

Delete in its entirety.

Insert: "5. Flag support system at Upper Lobby B200."

Page 1, 1.1, B

Reletter "B" to "C"

- Insert: "B. Install the following items furnished under related section:
1. Anodized aluminum flag support system components furnished under Section 05 50 00 – METAL FABRICATIONS."

Page 6, 2.3, C

Delete in its entirety.

- Insert: "C. Flag Support System (Upper Lobby B200): Aluminum and stainless-steel components made up of the following items:
1. All anodized aluminum components including tubes, plates, and channels as indicated on the Drawings shall be as specified in Section 05 50 00 – METAL FABRICATIONS.
 2. Tube and solid rods: 1 inch outside dia. stainless steel
 3. Shoulder eye bolts: 1/4 inch by 2-1/2 inch, 316 stainless steel
 4. Acorn nuts: low crown, 1/4 inch, 28 316 stainless steel with plain finish.
 5. Wire: 5/16 inch, 7x19, type 316 stainless steel
 6. Wire fittings: swaging steel in size to accommodate specified wire
 7. Sleeves: Hour glass-shaped, zinc plated copper"

33. SECTION 10 14 00 – SIGNAGE

Delete section in its entirety.

Insert new Section 10 14 00 – Signage (attached)

34. SECTION 10 81 13 – BIRD CONTROL DEVICES

Page 6, 3.3

- Insert: "C. Provide quantities as follows:
1. Main Entry Canopy: 2 – rows; 35 LF each
 2. Ground Floor Entry Canopy: 2 – rows; 35 LF each
 3. Athletic Department/PE Entry Canopy: 2 – rows; 30 LF each

35. SECTION 12 30 00 - CASEWORK

Page 12, 2.13, I

Delete in its entirety.

36. SECTION 12 35 51

Page 4, 2.2.C.1

Delete: "Doors: Full-height cabinet size, manufacturer's standard straight grille construction with powder paint finish in color selected by the Architect from manufacturer's full line of standard colors."

Insert: "Provide solid Panel Doors as indicated on elevations: Particleboard thermoset panel with no urea formaldehyde added, 3/4 inch (19 mm) thick. Finish as selected by the Architect from manufacturer's full line of standard colors."

Page 4, 2.2.C.4

Delete: "Powder paint"

Insert: "Casework panel"

Page 3, 2.1.A

Delete: "Instrument Storage Cabinets:

Insert: "Ultrastor Instrument Storage Cabinets" and Ultrastor Robe and Uniform Cabinets" and "Music Library System"

37. SECTION 12 35 53 – LABORATORY CASEWORK

Page 6, 2.1

Insert: "B. Laboratory casework specified herein shall be installed at the following locations:

1. Science Lab Rooms: A107, A207, A266, A270, A271, A275, A307, A366, A370, A371, A375
2. Prep Rooms: A108, A208, A269, A272, A308, A369, A372
3. Robotics: A309"

Page 9, 2.4, H.

Delete in its entirety.

Page 9, 2.4, I

Delete in its entirety.

Page 9, 2.4, J

Delete in its entirety.

Reletter "K" to "H".

Page 10, 2.4, L

Delete in its entirety.

Insert: "I. Mobile Teacher Demonstration Table: Clear maple solid wood large demonstration table with drawer and door cabinets. Accessories shall include the following:

1. Support rods, Upright Rod Assemblies and Rod Sockets: Upright rods, cross rods, and ring rods shall be anodized Duralumin (1/2 inch or 3/4 inch dia., where required). Rod sockets shall be chrome plated brass, secured through table tops with lock nut and spring washer. Rod clamps shall be heavy duty, designed to securely hold rod assembly in any position. Use of wood rod assemblies will not be acceptable.
2. Casters: Provide four (4) casters at each mobile teacher demonstration table, one at each corner; two of the casters shall be equipped with a brake and located on opposite corners. Casters shall be swivel type, zinc finish, 4 inch dia. soft rubber wheels with a minimum 115 lbs. load capacity each. Caster pin shall securely fit into a metal insert at the base of the table.

3. Safety screen: three-sided, 36 inch high, weighted, 3/8 inch thick clear acrylic safety screen with epoxy-coated steel base as manufactured by Inter Dyne Systems or approved equal.
 4. Top: epoxy resin furnished under Section 12 36 53 – LABORATORY COUNTERTOPS.
- J. Mobile Student Tables: clear maple solid wood peninsula utility table with 5 inch apron with the following accessories:
1. Casters: Provide four (4) casters at each mobile student table, one at each corner; two of the casters shall be equipped with a brake and located on opposite corners. Casters shall be swivel type, zinc finish, 4 inch dia. soft rubber wheels with a minimum 115 lbs. load capacity each. Caster pin shall securely fit into a metal insert at the base of the table.
 2. Top: epoxy resin furnished under Section 12 36 53 – LABORATORY COUNTERTOPS.”

Page 10, 2.4, M

Delete in its entirety.

Reletter “N” to “K” and “O” to “L”

Page 10, 2.4, P

Delete in its entirety.

Page 10, 2.5

Reletter “A” to “B” and “C” to “B”

Insert: “A. General Cabinet Construction: flush overlay with balanced construction panels.”

Page 10, 2.5, B, 4

Insert after the word “unit”: “and scribed to floor”

38. SECTION 12 36 53 – LABORATORY COUNTERTOPS

Page 1, 1.1, A, 1

After the word “standard”, insert the word: “epoxy”.

Page 1, 1.1, A, 2

Delete “behind all sinks”

Page 1, 1.1, A, 3

Delete in its entirety.

Replace with: “3. Provide epoxy countertops and backsplashes at the following locations:

1. Science Lab Rooms: A107, A207, A266, A270, A271, A275, A307, A366, A370, A371, A375
2. Prep Rooms: A108, A208, A269, A272, A308, A369, A372
3. Art Rooms: B202, B204, B206

4. Robotics: A309”

Page 1, 1.1, A, 4

Delete in its entirety.

Replace with: “4. Provide epoxy countertops at mobile teacher demonstration and student tables at the following locations:
1. Science Lab Rooms: A107, A207, A266, A270, A271, A275, A307, A366, A370, A371, A375
2. Robotics: A309”

Page 1, 1.1, A

Insert: “5. Provide epoxy window sills at the following locations:
1. Science Lab Rooms: A107, A207, A266, A270, A271, A275, A307, A366, A370, A371, A375
2. Robotics: A309”

39. SECTION 14 24 24 – HOLELESS HYDRAULIC ELEVATORS

Page 3, 1.2, F, 1

Insert after “A11.3”: “A11.4”

Page 2, 1.2, F, 2

Insert after “P4.10”: “PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12,”

40. SECTION 21 00 01 – FIRE PROTECTION

Page 4 – Section 1.02, E, 2, g

Insert after “A11.3”: “A11.4”

Page 4 – Section 1.02, E, 2, i

Insert at end: PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG, 3.12

Page 10 – Section 1.03 F 4 – Delete paragraph.

Page 10 – Section 1.3 D – Delete paragraph

Page 32 – Section 2.17, A 1.

Replace, “Auto-Spklr” with “Sprinkler-Standpipe”

41. SECTION 22 00 00 – PLUMBING

Page 2, 1.1.E.1

Insert at after “P4.10”: PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12

Page 2, 1.1.E.2

Insert after “A11.3”: “A11.4”

Page 6, 1.2.D

Insert at end of drawing list: PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12

Page 14, 1.17.B

Delete: seismic importance factor of 1.5.

Insert: seismic importance factor of 1.25.

Page 14, 1.17.B

Insert at end: Plumbing Contractor must provide vibration isolation and cables for seismic restraint regardless of the code exception.

Page 38, 2.6.C.5

Insert before the word Niron: Aquatherm,

Page 45, 2.7.O

Insert: "O. Gas Fire Valve: Furnish and install natural gas fire valve on the outdoor gas header after the gas meter as manufactured by Preferred Utilities Manufacturing Corp., Inner-Tite Corp. or approved equal. Valve shall be flanged cast-iron with bronze disc and seat, stainless steel fuse assembly."

Page 45, 2.7.P

Insert: "P. Gas Pressure Regulator for Mechanical Room: Furnish and install Belgas model #P133L-014-E-00-1E-00 Pressure Regulator, or approved equal by Honeywell, Emerson or Pietro Fiorentini, to reduce the elevated gas pressure from 2 PSI inlet to 8" w.c. outlet gas pressure. The series P133 is a direct operated pressure reducing regulator with external pressure registration. The regulator utilizes a balanced diaphragm design that provides for the sensitivity and accuracy. This minimizes the effects of supply pressure variation on output pressure. The gas pressure regulator has the following specifications:

Maximum Operating Inlet Pressure = 60 PSIG

Maximum Emergency Inlet Pressure = 125 PSIG

Maximum Operating Outlet Pressure = 2 PSIG

Maximum Emergency Outlet Pressure = 15 PSIG

Main Spring Outlet Pressure Range = 6" – 14" w.c.

End Connections: 125 FF Flange

Port Orientation: Up (Standard)

Required Capacity for this application = 15,900 CFH

Unrestricted Flow Capacity for specified regulator = 17,000 CFH"

Page 45, 2.7.Q

Insert: "Q. Gas Pressure Regulator for Kitchens and Science Rooms: Furnish and install Belgas model #P202-0-16-014-E-F-3F-0 Pressure Regulator, or approved equal by Honeywell, Emerson or Pietro Fiorentini, to reduce the elevated gas pressure from 2 PSI inlet to 7" w.c. outlet gas pressure. The type P200 gas pressure regulator is a manual, direct acting, self-operating, spring loaded adjustable regulator. It includes an internal relief valve with allows the regulator to reduce the risk of shock from abrupt changes of downstream conditions and for overpressure protection. This gas pressure regulator has the following specifications:

Spring Color: Purple with Adjustable Range of 6" – 14" w.c.
Connections: 2" Flanged.
Required Capacity for this application = 5,173 CFH
Unrestricted Flow Capacity for specified regulator = 6,000 CFH"

42. SECTION 23.00.00 – HVAC

Page 2, 1.1.E.2

Insert after "P4.10": PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG3.12

Page 2, 1.1.E.2

Insert after "A11.3": "A11.4"

Page 6, 1.03 H.

Delete: "Note: All units included in the 3-year warranty and maintenance plan shall not be supplied with spare filters as the contractor shall own filter changes for 3 years as part of the contract."

Page 6, 1.03 I.

Delete: "Note: All units included in the 3-year warranty and maintenance plan shall not be supplied with spare belts as the contractor shall own belt changes for 3 years as part of the contract."

Page 10, 1.09

Change the name of the paragraph from "Guarantee & Maintenance Contract" to "Warranty".

Page 10, 1.09 B.

Delete: "and maintenance contract"

Page 10, 1.09 B.

Delete: "Contract shall cover all parts and labor for all components of the equipment as well as all routine scheduled maintenance specified by the manufacturer including but not limited to, filter changes, belts, lubrication, cleaning of coils and heat exchangers, related factory and field mounted controls for these devices, inspection of ignition components and replacing ignitors as required, cleaning condensate traps & change acid neutralizer cartridges, etc..."

Insert: "Warranty shall cover all parts and labor including both factory and field installed control components."

Page 11, 2.01 B.

Insert: Add the following line item: "8. At all clothes dryer exhaust wall outlets provide an aluminum hooded wall cap with integral backdraft damper similar to model #SFB-4P as manufactured by Seiho or approved equal."

Page 13, 2.01 R. 1.

Delete: "All shall be. Note: For the fire dampers at the interface to the PAC building, provide 3-hour out-of-air stream type dynamic rated fire dampers."

Insert: " All shall be out-of-air stream type dynamic rated fire dampers.

Page 14, 2.01 W.

Insert: At the end of the paragraph add: "Bends and turns in flexible ductwork must not exceed a 90 degree angle."

Page 26, 2.07

Insert: Add the following paragraph: "F. At all penetrations of refrigerant piping through the roof furnish a roof penetration housing similar to the Vault® model AWI series by Roof Penetration Housings or approved equal. Unit shall be constructed of 0.080" thick aluminum housing and 18" high curb, all pre-insulated to R-40 and shall have a UV protected powder coat finish and be selected to support the size and quantity of condensers and pipes being serviced. Each unit shall be furnished with Series 5000 (or series 6000 is pipe size requires) exit seals in sufficient quantity and size to support all the refrigeration piping as well as the required power and control wiring from the exterior unit into the building."

Page 31, 2.10 E. 2.

Delete: "2. To overhead steel deck - use Grinnell Figure 209 toggle bolt with washers and Figure 209 rod coupling; or weld rod to 1/4 in. thick by 4 in. by 4 in. fish plate laid across top of steel deck; or bolt and weld Grinnell Figure GS-I00H channels not less than 12 in. long to underside of steel deck at right angle to ribs and attach hanger rods with GS-40 nuts."

Page 37, 2.16

Insert: "K. Destratification fans as manufactured by Airius or approved equal shall be provided as scheduled and shown on the drawings. Fans shall have a multi-vane stator, PC/ABS resin flame resistant housing and EC motors for control by EMS with 0-10 Vdc signal. Unit shall be provided with a hanging bracket and 6 foot steel safety cable. Standard color selection by Architect as units shall be painted in the filed by project painting contractor section 09.91.00. Contractor shall deliver fans to painting contractor and once painted shall install fans. Units shall come with 3-year parts and labor warranty."

Page 38, 2.17 A.

Delete: "Viessman or Aerco." and "Acceptable boiler"

Insert: At end of paragraph insert: "As indicated in section 01.60.00 Product Requirements, 1.6 Owner's Proprietary Products, the Lochinvar Crest boilers are a proprietary product and no alternates shall be allowed."

Page 40, 2.17 L. 2.

Insert: At end of paragraph insert: "G.C. shall provide concrete pad however division 23.00.00 shall coordinate pad layout size and hold down locations."

Page 81, 2.26 H. 6.

Insert: At end of 6. Add the following: "A minimum of two stacked DX cooling and reheat coils with row split circuits shall be provided and sized to insure stable DX cooling and reheat operation down to 10% of the rated supply airflow. Manufacturer shall size the DX coils in varying capacities to match the condenser section and achieve performance at low airflow, for example one DX coil at 1/3 capacity and other DX coil at 2/3 capacity or other variation as predicated by the manufacturer to insure adequate airflow velocity across operating coil at minimum 10% unitary airflow realizing that the inactive idle coil shall be dampered off at low airflows as specified in the sequence of operation. Hot gas reheat coils shall be sized to reheat air off the DX cooling coils from design leaving air temperature of no higher than 52°F to a minimum of 70°F at all operating airflows"

Page 82, 2.26 I.

Delete: "As these units are part of the 3 year warranty and maintenance plan no additional filters are required as all filter changes for 3 years shall be provided by via the maintenance contract."

Page 85, 2.26 N. 1.

Insert: At end of 1. Basic Construction paragraph add the following:
"Condensing unit shall be a separate physical component from the air handling section of the unit (i.e. not built as part of the air handling section)."

Page 85, 2.26 N. 5.

Delete: "5. Compressors: Unit shall contain no less than four (4) scroll style compressors of varying sizes with at least two (2) being on variable frequency inverters, independently circuited and mounted with rubber isolated compressor mounts to the module base. Compressors shall be configured so as to allow for a minimum of at least six near equally sized staging steps with a minimum turn-down of no greater than 10%. Hot gas bypass shall not be allowed. Unit manufacturer must coordinate required staging scenario with the EMS vendor to insure all required minimum on and off times and compressor rotation are adhered too. Factory controls must include all compressors safeties including compressor oil system flush cycles as required."

Insert: "5. Compressors: Unit shall contain no less than two (2) scroll compressors for under 100-ton and no less than four (4) scroll style compressors for 100-ton and over of varying sizes all of which must be on variable frequency inverters, independently circuited and mounted

with rubber isolated compressor mounts to the module base. Compressors shall be configured so as to allow for a minimum turn-down of no greater than 10%. Hot gas bypass shall not be allowed. Unit manufacturer must coordinate required staging scenario with the EMS vendor to insure all required minimum on and off times and compressor rotation are adhered too. Factory controls must include all compressors safeties including compressor oil system flush cycles for reheat coils. Compressor condenser sections and matching DX cooling and reheat coils shall be configured to insure stable DX cooling and reheat operation down to 10% of the rated supply airflow. Manufacturer may segment the matching DX coils in varying capacities to achieve this for example one DX coil at 1/3 capacity and other DX coil at 2/3 capacity or other variation as predicated by the manufacturer to insure adequate airflow velocity across operating coil at minimum 10% unitary airflow realizing that the inactive idle coil shall be dampered off at low airflows as specified in the sequence of operation."

Page 85, 2.26 N.

Insert: add the following: "7. Provide hot gas reheat circuit and control with modulating hot gas reheat valves. Controller shall include hot gas flush cycle to insure flushing of refrigerant oil that has migrated into reheat coil. Hot gas reheat circuit and matching hot gas reheat coils shall be sized to reheat air off the DX cooling coils from design leaving air temperature of no higher than 52°F to a minimum of 70°F at all operating airflows."

Page 92, 2.27 O.

Delete: "As these units are part of the 3 year warranty and maintenance plan no additional filters are required as all filter changes for 3 years shall be provided by via the maintenance contract."

Page 112, 2.30 D.

Delete: "In addition to intake moisture eliminators, provide four (4) full replacement sets of MERV 8 pre-filters and MERC 13 final filters 2" thick pleated air filters as manufactured by Farr or equal by AAF in addition to the set furnished with the unit"

Insert: "The unit shall be furnished with aluminum mesh moisture eliminating filters. In addition the unit shall be furnished with two (2) spare sets of filters (both pre and final) in addition to those supplied with the unit and after flush-out. Pre-filters shall have a minimum efficiency of MERV 8 and final filters shall have a minimum efficiency of MERV 13."

Page 114, 2.31 M.

Replace "MERV14" reference with "MERV 13" and replace "four (4) spare sets" with "two (2) spare sets"

Page 115, 2.33 A.

Delete: "Enclosures shall be of 16 gauge (14 gauge in restrooms and corridors) cold-rolled steel and shall be furnished with a baked enamel finish, with color selected by the Architect. All baseboard cover in restrooms locker rooms, shower areas and kitchen area shall be constructed of 16 gauge stainless steel"

Insert: "Enclosures shall be of 14 gauge in cold-rolled steel and shall be furnished with a baked enamel finish, with color selected by the Architect. All baseboard cover in restrooms locker rooms, shower areas and kitchen area shall be constructed of 14 gauge stainless steel."

Page 121, 2.43 A.

Insert: At end of paragraph insert: "As indicated in section 01.60.00 Product Requirements, 1.6 Owner's Proprietary Products, the Alerton control system by ABS is a proprietary product and no alternates shall be allowed."

Page 121, 2.43 B.

In the first sentence of the second paragraph replace the period with a comma after the words "...installation of sensors".

Page 134, 2.43 O. 8.

Insert: Under "Outputs" add the following point: "Hot Water Valve AO".

Page 185, 3.05 A. 3.

Insert: Add the following line item: "g. ASHRAE 110 Methods of Testing and Performance of Laboratory Fume Hoods".

Page 188, 3.05 A. 4. B. 3)

Replace the word "TABIC" with "TABB".

Page 188, 3.07 A. 7. b.

Insert: Add the following line items:
"13) Heating Terminal, Pump, HX and Radiation Data:
a) Designation
b) Location
c) Service
d) Manufacturer
e) Size and fins/inch
f) Water flow, design and actual
g) Water pressure drop, design and actual
h) Temperature in and out (HX only)
i) Pump pressure and flow

Page 193, 3.07 A.

Insert: Add the following to the end of this paragraph: "Zinc coated threaded rod is exempt from the primer requirement."

Page 193, 3.08 A.

Delete: "Note: All units included in the 3-year warranty and maintenance plan shall not be supplied with spare filters as the contractor shall own filter changes for 3 years as part of the contract"

Page 193, 3.08 B.

Delete: "Note: All units included in the 3-year warranty and maintenance plan shall not be supplied with spare belts as the contractor shall own belt changes for 3 years as part of the contract"

43. SECTION 26 00 01 – ELECTRICAL

Page 4. 1.2E.2.

Insert after "A11.3": "A11.4"

Insert after "P4.10": "PG3.2, PG3.3, PG3.4, PG3.7, PG3.8, PG3.11, PG, PG3.12."

Page 6. 1.3C.

Delete: "5. ~~GYMNASIUM DIVIDER~~"

Insert: "5. SCREENS, CURTAINS, BACKBOARDS AND SCOREBOARDS"

44. SECTION 26 50 00 – STAGE AND HOUSE LIGHTING AND CONTROLS

Page 3, 1.6

Delete: "BID SUBMITTALS"

Insert: "NOT USED"

Page 3, 1.6, A

Move this entire section, including sub-paragraphs a-f, to the end of 1.8 SUBMITTALS. Reletter relocated "A" to "F".

Page 3, 1.6, B

Delete in its entirety.

45. SECTION 27 21 00 – DATA COMMUNICATIONS NETWORK EQUIPMENT

Page 4. 1.6

Delete: "A. ~~installation.~~"

Insert: "A. integration"

46. SECTION 28 10 00 – UNIFIED SECURITY SYSTEM

Page 3. 1.6B.1.

Insert: "j. Contractor is required to provide references of three similar installations completed in the last 12 months."

Page 4. 1.7

Delete: "E. ~~Contractor is required to provide references of three similar installations completed in the last 12 months.~~"

47. SECTION 32 80 00 – IRRIGATION EQUIPMENT

Page 4, 1.6, C, "Extended Maintenance Agreement"

Delete in its entirety.

DRAWINGS

1. COVER SHEET – VOLUME III

A. In the DRAWING LIST COVER 3, under the PLUMBING section, add the following at the end:

"PG3.2	Ground Floor Gas Piping Plumbing Plan Section B2
PG3.3	First Floor Gas Piping Plumbing Plan Section A
PG3.4	First Floor Gas Piping Plumbing Plan Section AB
PG3.7	Second Floor Gas Piping Plumbing Plan Section A
PG3.8	Second Floor Gas Piping Plumbing Plan Section AB
PG3.11	Third Floor Gas Piping Plumbing Plan Section A
PG3.12	Third Floor Gas Piping Plumbing Plan Section AB"

2. COVER SHEET – VOLUME II

A. In Drawing list at Drawing A8.22 replace "Not Used" with "Interior Elevations-Art and Music"

3. DRAWING CA4.7 – LOWER FIELD DETAILS

- A. At detail 6/CA4.7 Enlarged ADA Access Site Plan: Revise callout at "ADA Ramp Section" from "3/CA4.7" to "2/CA4.7"
- B. At detail 6/CA4.7 Enlarged ADA Access Site Plan:
Delete note (top left): "Steel Pipe Rail Hand Railing (Typ)"
Insert note: "Galvanized steel handrail assembly by 05 50 00; refer to Handrail Section 14/L5.0"
- C. At detail 2/CA4.7 Concrete ADA Ramp – Section:
Delete note (top left): "Steel Hand Rail with Grip Rail at 2'-10" (Typ)"
Insert note: "Galvanized steel ramp handrail/guardrail assembly by 05 50 00; refer to Guardrail – Accessible – Section 20/L5.0"

4. DRAWING A3.2 – GROUND FLOOR PLAN SECTION B2

- A. At Room B043, above symbol "BL-6", delete note "Knee Wall" and replace with "Knee wall with solid surface cap"; arrow shall remain pointing to same item.
- B. At floor plan 2, in room B011 at millwork tag "MW5" change tag mark to "MW6"
- C. At floor plan 2, in room B027 at millwork tag "MW6" change tag mark to "MW5"

5. DRAWING A3.4 – FIRST FLOOR PLAN SECTION AB

- A. At elevator E1, all 3 walls of Elevator Machine Room A183 shall be metal stud and gyp. board.
- B. At floor plan 4, in room B193 at mill work tag "MW4A" change tag mark to "MW4.1"

6. DRAWING A3.6 – FIRST FLOOR PLAN SECTION B2

- A. At Closet B102.1, add section cut mark 11/A9.5.
- B. Along column line 37, in Vestibule B130.1, delete references 14/A8.26 and 15/A8.26.
- C. At Floor Plan drawing 3/A3.6, revise floor plan for Display Cases D1 and D2 and its key references, refer to ADD-9 A-029
- D. At floor plan 3, in room B101 insert millwork tag "MW1"

7. DRAWING A3.8 – SECOND FLOOR PLAN SECTION AB

- A. At floor plan 8, in room B281 at casework tag "CW2" change tag mark to "MW2"

8. DRAWING A3.9 – SECOND FLOOR PLAN SECTION B1

- A. Replace interior elevation reference "6/A8.11" with "6/A8.18".
- B. At Floor Plan drawing 9/A3.9, Delete note "2 Rows Steel Railings with 10' high mesh netting; paint railings, typical"
- C. In rooms Men B274 and Women B270.1, add a tag identifying the countertop with sink as "MW 12"

9. DRAWING A3.9 AND ADD-7 A-002

- A. At floor plan 9C at note "Flooring framing by 05 50 00; typical, shown dashed", delete "05 50 00" and insert "05 40 00".
- B. At floor plan 9C at note "Line of 3/8" catwalk plate bridge and framing below as req'd by 05 50 00", delete "05 50 00" and insert "05 40 00".

10. DRAWING A3.10 – SECOND FLOOR PLAN SECTION B2

- A. At Art & Music Planning B2.1, add section cut mark 11/A9.5 at "pole & shelf" note.

11. DRAWING A3.12 – THIRD FLOOR PLAN SECTION AB

- A. At Robotics A309, insert general note: "Note: Mobile student tables shall match type ST2 as indicated in Science Labs; typical of 9"

12. DRAWING A4.4 – FIRST FLOOR REFLECTED CEILING PLAN SECTION AB

- A. In Serving B182, add a detail tag to 2/A11.4 at the transition between ACT-7 @ 11'-2" AFF and ACT-8 @ 10'-6" AFF.
- B. At Floor Plan drawing 1/A4.4, add reference detail tag for ceiling transition; refer to ADD-9 A-028.

13. DRAWING A4.9 – SECOND FLOOR REFLECTED CEILING PLAN B1

- A. Clarification: Details 2/A4.9 and 3/A4.9 were inserted as new details when sheet A4.9 was re-issued, but not clouded, in Addendum #8. These details should be clouded and marked as issued in Addendum #8 and will be clouded in the Conformed Set accordingly.
- B. Insert Detail 6/A4.9, Refer to Sketch ADD-9 A-069 Proscenium Head Detail.

14. DRAWING A5.1 – EXTERIOR ELEVATIONS

- A. At C-Partial North Elevation OH and D-Partial West Elevation, change height of Masonry Type 2 from 12" to 20".
- B. At E-Partial East Elevation Above Lower Cafeteria Roof, provide a 16" high band of Masonry Type 2, instead of a 16" high band of Masonry Type 1, to align with adjacent 16" high Masonry Type 2 on 1/A5.1 South Elevation AB (Administration).

15. DRAWING A5.2 – EXTERIOR ELEVATIONS

- A. At 7/A5.2 West Elevation B1, between Column Lines "M" and "N.7", refer to attached Sketch SKA/001 Brick Shelf Revisions for revised brick steps, shelves and flashing at grade.

16. DRAWING A6.11 – MOCK-UP WALL

- A. At detail 1, at note: "HSS 5X5X1/4" (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".
- B. At detail 1, at note: "HSS 4X4X1/4" (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".
- C. At detail 1, at note: "7X4X1/2" steel lintel with structural component assembly (all by 05 55 00 for mock up wall only)", Delete: "05 55 00", Insert: "05 50 00".
- D. At detail 2, at note: "7X4X1/2" galvanized steel lintel (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".

17. DRAWING A6.12 – EXTERIOR PLAN DETAILS BUILDING A

- A. At detail 14, Delete: "Continuous bulk water resistive barrier by 07 42 43; typical"

18. DRAWING A6.13 – EXTERIOR PLAN DETAILS BUILDING AB & BUILDING B1

- A. At detail 15/A6.13, add a note that points to the joint in the precast that states "Backer rod and sealant by 07 92 00"
- B. At detail 1, at note: "TS 3X3X3/16" BY 05 55 00", Delete: "05 55 00", Insert: "05 50 00".

19. DRAWING A6.14 – EXTERIOR PLAN DETAILS BUILDING B2

- A. At detail 7, at note: "Fill voids with rigid mineral wool supplied by 04 20 00, installed by 05 55 00", Delete: "supplied by 04 20 00, installed by 05 55 00", Insert: "by 04 20 00"
- B. At detail 7, at note: "3/8" galv. bent plate with bolt holes (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".
- C. At detail 7, at note: "1/2" galv. blind fastening bolts with cap nut at exposed locations (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".
- D. At detail 3, at note: "Closed cell spray foam (07 21 00)", Insert: ",fill entire frame after transition membrane installation" after (07 21 00)".

20. DRAWING A6.15 – EXTERIOR DETAILS

- A. At detail 15, at note: "Loading dock edge continuous galv. L4X4X3/8" supplied by 05 55 00 and installed by 03 30 00" Delete: "05 55 00", Insert: "05 50 00".

21. DRAWING A6.17 – EXTERIOR DETAILS

- A. At Addendum-8, A-018, detail 3, at all notes containing: "05 55 00", Delete: "05 55 00", Insert: "05 50 00".
- B. At Addendum-8, A-019, detail 4, at notes: "Continuous L2"X2"X1/4" continuously welded to continuous 1/4" bent steel flanges (05 55 00) hot dipped galvanized & fastened to horizontal thermally insulated facade attachment system", Delete: "05 55 00", Insert: "05 50 00".

**22. DRAWING A6.23 – INTERIOR ALUM. FRAME TYPES & ALUM. DOOR TYPES
(ADDENDUM #8)**

- A. At Display Case D2, delete all notes that reference "Wall Tile Clad Pilaster"
- B. At Display Case D1, delete all notes that reference "Masonry MT-4/MT-6 Clad Pilaster"
- C. At Storefront Elevation S9, revised vertical references though door and sidelight, refer to ADD-9 A-041.

23. DRAWING A6.24 SKYLIGHT PLAN, SECTIONS AND DETAILS

- A. Replace the entire drawing with the attached new drawing A6.24-Skylight Plan, Sections and Details.

24. DRAWING A6.21 – WINDOW AND CURTAIN WALL TYPES

- A. At Curtain Wall Type CW2, at note: "Radius = 71'-4 1/2'" Delete: "71'-4 1/2'", Insert: "71'-5'".
- B. At Curtain wall Type CW2, at note: "Radius = 70'-8'" Delete: "70'-8'", Insert: "70'-8 1/2'".

25. DRAWING A6.27 – TYPICAL CURTAIN WALL DETAILS

- A. At detail 9, at note: "Metal through wall flashing with hemmed edge by 07 42 43; typical" Delete: "07 42 43", Insert: "08 44 13".
- B. At detail 10: Delete note: "Drip edge by 04 20 00; typical", Insert: "Metal sill flashing by 08 44 13; typical"
- C. At detail 10, note: "Backer rod and sealant, weep at 12" o.c. by 08 51 13; typical", Delete: "08 51 13", Insert: "08 44 13".
- D. At detail 10, note: "Backer rod and sealant by 04 20 00; typical", Delete: "04 20 00", Insert: "07 92 00".

**26. DRAWING A6.28 – TYPICAL STOREFRONT RIBBON AND TRANSLUCENT WALL
DETAILS**

- A. At detail 3, at the note: "Backer rod and sealant by 08 44 13; typical" located below note: "'L' bead by 09 29 00; typical", Delete: "08 44 13", Insert: "07 92 00".

- B. At detail 3, all notes referencing: "08 44 13", Delete: "08 44 13", Insert: "08 43 13".
- C. At detail 3, Delete: "Continuous vapor permeable air barrier detail membrane flashing by 07 42 43; typical" Insert: "Continuous vapor permeable air barrier by 07 27 13; typical (return into rough opening)".

27. DRAWING A6.33 – ROOF DETAILS

- A. At detail 9, at note: "L 2x2x6x5/16" @ 24" o.c. by 05 55 00; typical - welded to (2) L2x2x5/16"" Delete: "05 55 00", Insert: "05 50 00".
- B. At detail 9, at note: "(2) pairs of L 2X2X5/16" with 1/4" steel plate welded assembly @ 24" o.c. by 05 55 00; typical - welded to steel channel" Delete: "05 55 00", Insert: "05 50 00".

28. DRAWING A6.34 – ROOF DETAILS

- A. At detail 21, note: "2x10 FRTW continuous blocking", Delete: "FRTW", Insert: "Pressure treated wood".
- B. At detail 16, at note: "Rabeted aluminum threshold by 05 55 00; typical, install in full bed of sealant" Delete: "05 55 00", Insert: "08 71 00".
- C. At detail 16, at note: "Aluminum diamond plating with end dams by 05 50 00; typical" Delete: "05 55 00", Insert: "05 50 00".
- D. At detail 17, Insert: "Note: Attach wall mounted roof access ladder base to sleeper, similar to unit assembly condition"

29. DRAWING A6.35 – ROOF DETAILS

- A. At detail 6, at note: "1.66" o.d., schedule 40, galvanized, pipe guardrail post, rail and plate assembly, perimeter of platform excluding width of roof access ladder (05 55 00) and where ACHP sits on platform edge", Delete: "excluding width of roof access ladder (05 55 00)", Insert: "(05 50 00) excluding width of roof access ladder".
- B. At detail 6, at note: "FULL PERIMETER WELDS (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".
- C. At detail 6, at note: "4"X4"X1/4" galv. plate welded to post and top flange of W beam (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".
- D. At detail 6, at note: "3/8" plate at bracket; full width of ladder, welded to W14 (05 55 00)", Delete: "05 55 00", Insert: "05 50 00".

30. DRAWING A7.1 – ELEVATOR PLANS AND SECTIONS

- A. At detail 8, at note: "Steel pit ladder: 3/4" rungs on 3/8" x 2 1/2" rails. Mount to wall with 3/8" clip angles. by 05 55 00, installed by 14 24 00; typical", Delete: "angles. by 05 55 00, installed by 14 24 00; typical", Insert: "angles supplied and installed by 14 24 24".

31. DRAWING A7.6 – LOBBY STAIR, RAMP & GUARD DETAILS

- A. At details 1, 2, 3, 4, 6, 7, 8, 9, 10/A7.6, delete any reference to "05 40 00" and replace with "09 22 16".

32. DRAWING A7.7 – TYPICAL STAIR & GUARD DETAILS

- A. At details 1, 2, 4, 5, 6, 9/A7.7, delete any reference to "05 40 00" and replace with "09 22 16".

33. DRAWING A8.2 – TYPICAL SCIENCE LAB INTERIOR ELEVATIONS

- A. Replace the entire drawing with the attached new drawing A8.2-Typical Science Lab Interior Elevations.

34. DRAWING A8.10 – INTERIOR ELEVATIONS – LOBBY & VESTIBULE

- A. Clarification: Terrazzo tile base is continuous below thin brick and fiber cement panel wall material.
B. Revise elevation 5/A8.10, refer to sketch ADD9 A-030.

35. DRAWING A8.22 – INTERIOR ELEVATIONS-ART AND MUSIC

- A. Add new drawing A8.22- Interior Elevations-Art and Music.

36. DRAWING A8.24 – INTERIOR DETAILS BUILDING B1

- A. Insert Detail 9/A8.24, refer to Sketch ADD-9 A-068.

37. DRAWING A8.26 – INTERIOR DETAILS BUILDING B2

- A. Replace this entire drawing with the attached new drawing A8.26 – Interior Details Building B2

38. DRAWING A8.28 – INTERIOR SECTION DETAILS

- A. Replace details 2/A8.28 and 3/A8.28, refer to sketch ADD9 A-039 and ADD9 A-040
B. Delete drawing 3/A8.28 and replace with 3/A8.28 on ADD-9 A-049
C. Insert Drawing 3A/A8.28; refer to ADD-9 A-050

39. DRAWING A9.1 – CASEWORK SCHEDULES

- A. At Casework Schedule Ground Floor Building B, at Room B011, Andy's Attic, mark 5 replace mark "5" with "MW6"
B. At Casework Schedule Ground Floor Building B, at Room B011, Andy's Attic, mark 7 replace mark "7" with "MW7"
C. At Casework Schedule Ground Floor Building B, at Room B027, Client room, mark 6 replace mark "6" with "MW7"
D. At Casework Schedule Ground Floor Building B, insert Room # "B063", Room Name "ROTC Drill", Mark "1"
E. At Casework Schedule Ground Floor Building B, insert Room # "B063", Room Name "ROTC Drill", Mark "1"
F. At Casework Schedule Ground Floor Building B, at Room B063, ROTC Drill, mark 4A replace mark "4A" with "MW4A"
G. At Casework Schedule Ground Floor Building B, remove Room # "B076", Room Name "OT/PT", Mark "9"
H. At Casework Schedule First Floor B Building, at Room B101, Gen Office, mark 1 replace mark "1" with "MW1"

I. At Casework Schedule First Floor B Building, at Room B109, Mail/Copy, mark 3 replace mark "3" with "MW3"

J. At Casework Schedule First Floor B Building, remove Room # "B153", Room Name "Chorus", Mark "F5"

K. At Casework Schedule First Floor B Building, remove Room # "B154", Room Name "Band", Mark "25"

L. At Casework Schedule First Floor B Building, at Room B171, Security Office, mark 10 replace mark "10" with "MW10"

M. At Casework Schedule First Floor B Building, at Room B192, Cafe, mark 4 replace mark "4" with "MW4"

N. At Casework Schedule First Floor B Building, remove Room # "B193", Room Name "Staff Dining", Mark "53"

O. At Casework Schedule First Floor B Building, at Room B193, Staff Dining, mark 4A replace mark "4A" with "MW4.1"

P. At Casework Schedule Second Floor A Building, remove Room # "A211", Room Name "Planning", Mark "13"

Q. At Casework Schedule Second Floor A Building, at Room A987, Guidance Office, mark 8 replace Room # "A987" with "A296" and replace mark 8 with "MW8"

R. At Casework Schedule Second Floor B Building, at Room B281, Media Center, mark 2 replace mark "2" with "MW2"

S. At Casework Schedule Ground Floor B Building, insert Room # "B045", Room Name "Pre-K", Mark "49"

T. At Casework Schedule First Floor A Building, insert Room # "A104", Room Name "Classroom", Mark "49"

U. At Casework Schedule First Floor A Building, insert Room # "A124", Room Name "Classroom", Mark "49"

V. At Casework Schedule First Floor A Building, insert Room # "A128", Room Name "Classroom", Mark "49"

W. At Casework Schedule First Floor A Building, insert Room # "A142", Room Name "Classroom", Mark "49"

X. At Casework Schedule First Floor A Building, insert Room # "A146", Room Name "Classroom", Mark "49"

Y. At Casework Schedule First Floor A Building, insert Room # "A147", Room Name "Classroom", Mark "49"

Z. At Casework Schedule First Floor A Building, insert Room # "A148", Room Name "Classroom", Mark "49"

AA. At Casework Schedule First Floor A Building, insert Room # "A166", Room Name "Classroom", Mark "49"

AB. At Casework Schedule First Floor A Building, insert Room # "A173", Room Name "Planning", Mark "49"

AC. At Casework Schedule First Floor A Building, insert Room # "A176", Room Name "Speech", Mark "49"

AD. At Casework Schedule First Floor A Building, insert Room # "A177", Room Name "Classroom", Mark "49"

AE. At Casework Schedule Second Floor A Building, insert Room # "A204", Room Name "Classroom", Mark "3"

AF. At Casework Schedule Second Floor A Building, insert Room # "A209", Room Name "SPED Resource", Mark "3"

AG. At Casework Schedule Second Floor A Building, insert Room # "A222", Room Name "Classroom", Mark "49"

- AH. At Casework Schedule Second Floor A Building, insert Room # "A224", Room Name "Classroom", Mark "3"
- AI. At Casework Schedule Second Floor A Building, insert Room # "A228", Room Name "Classroom", Mark "3"
- AJ. At Casework Schedule Second Floor A Building, insert Room # "A229", Room Name "SPED Resource", Mark "3"
- AK. At Casework Schedule Second Floor A Building, insert Room # "A244", Room Name "Classroom", Mark "3"
- AL. At Casework Schedule Second Floor A Building, insert Room # "A248", Room Name "", Mark "3"
- AM. At Casework Schedule Second Floor A Building, insert Room # "A248", Room Name "Classroom", Mark "49"
- AN. At Casework Schedule Second Floor A Building, insert Room # "A249", Room Name "Classroom", Mark "3"
- AO. At Casework Schedule Second Floor A Building, insert Room # "A261", Room Name "Step 2", Mark "49"
- AP. At Casework Schedule Third Floor A Building, insert Room # "A303", Room Name "SPED Inclusion", Mark "49"
- AQ. At Casework Schedule Third Floor A Building, insert Room # "A322", Room Name "Step 4", Mark "49"
- AR. At Casework Schedule Third Floor A Building, insert Room # "A324", Room Name "Classroom", Mark "3"
- AS. At Casework Schedule Third Floor A Building, insert Room # "A328", Room Name "Classroom", Mark "3"
- AT. At Casework Schedule Third Floor A Building, insert Room # "A329", Room Name "Resource/Inclusion", Mark "3"
- AU. At Casework Schedule Third Floor A Building, insert Room # "A341", Room Name "Resource/Inclusion", Mark "49"
- AV. At Casework Schedule Third Floor A Building, insert Room # "A342", Room Name "Classroom", Mark "49"
- AW. At Casework Schedule Third Floor A Building, insert Room # "A344", Room Name "Classroom", Mark "3"
- AX. At Casework Schedule Third Floor A Building, insert Room # "A344", Room Name "Classroom", Mark "49"
- AY. At Casework Schedule Third Floor A Building, insert Room # "A348", Room Name "Classroom", Mark "3"
- AZ. At Casework Schedule Third Floor A Building, insert Room # "A349", Room Name "Classroom", Mark "3"
- BA. At Casework Schedule Third Floor A Building, insert Room # "A356", Room Name "", Mark "49"
- BB. At Casework Schedule Third Floor A Building, insert Room # "A361", Room Name "Step 3", Mark "49"
- BC. In the Casework Schedule Ground Floor B Building, room B043, delete entire row with "18.3" in it.

40. DRAWING A9.4 – MILLWORK ENLARGED PLANS AND ELEVATIONS

- A. Replace all instances of the word "melamine" with "plastic laminate"
- B. Replace all instances of the word "particleboard" with "MDF"

41. DRAWING A9.5 – MILLWORK ENLARGED PLANS AND ELEVATIONS

- A. At MW-5, Enlarged Millwork Plan at Client B027, at note “Grommets through epoxy countertop”, delete the word “epoxy”.
- B. At detail 1, at millwork tag “MW1” change tag mark to “MW7”

42. DRAWING A9.6 – MILLWORK ENLARGED PLANS AND ELEVATIONS

- A. Replace all instances of the word “melamine” with “plastic laminate”
- B. Replace all instances of the word “particleboard” with “MDF”

43. DRAWING A10.2 – DOOR SCHEDULE - FIRST FLOOR SECTION A & B

- A. At door B175.1, replace Frame Head with 12/A8.23.

44. DRAWING A11.1 – ROOM FINISH SCHEDULE – GROUND FLOOR

- A. On FINISH KEYNOTES LEGEND, add General Note: “5. Where base finish calls for “4”/6” Vinyl”, provide 6” vinyl base at under-window casework vertical pencil grilles. All other walls to receive 4” vinyl base.”
- B. For SB5.0 Stair #B5, change floor finish from “RUBBER” to “EPOXY TYPE 2 FLOOR AND TREADS”
- C. For SB5.0 Stair #B5, change base finish from “RUBBER” to “4” EPOXY TYPE 3”
- D. For SB5.0 Stair #B5, delete Notes “W1” and “W3”.
- E. For SA2.4 Stair #A2, change wall finish from “TILE/PAINT” to “ABUSE RESISTANT GWB; PAINT” and delete Note “W1”.

45. DRAWING A11.2 – ROOM FINISH SCHEDULE – FIRST FLOOR

- A. For Kitchen B184, update wall finish to “FRP/CERAMIC ACCENT TILE TO CEILING”
- B. On FINISH KEYNOTES LEGEND, add General Note: “5. Where base finish calls for “4”/6” Vinyl”, provide 6” vinyl base at under-window casework vertical pencil grilles. All other walls to receive 4” vinyl base.”
- C. For Toilet B105, change the wall finish from “GWB PAINT” to “TILE/PAINT”
- D. For Lower Auditorium B175, add note “Refer to Elevations A8.12”

46. DRAWING A11.3 – ROOM FINISH SCHEDULE – SECOND & THIRD FLOORS

- A. On FINISH KEYNOTES LEGEND, add General Note: “5. Where base finish calls for “4”/6” Vinyl”, provide 6” vinyl base at under-window casework vertical pencil grilles. All other walls to receive 4” vinyl base.”
- B. On ROOM FINISH SCHEDULE SECOND FLOOR SECTION B, Room B272 Control Room, change floor finish from “CARPET TILE” to “LINOLEUM SHEET”
- C. For rooms A301, A325, A345, change wall finish from “GWB PAINT” to “TILE/PAINT”
- D. For Upper Auditorium B175, add note “Refer to Elevations A8.12”

47. DRAWING A11.4 – TYPICAL FINISH DETAILS

- A. At Detail L2/A11.4 change the 6” dimension at the epoxy base to 4”.

- B. At detail 9, at note "1 5/8" UNISTRUT GRID SUSPENDED FROM ROOF STRUCTURE" insert at the end "; TYPICAL BY 05 50 00 PAINTED "
- C. At detail 9, at note "UNISTRUT PIPE CLAMP" insert at the end "BY 05 50 00 TYPICAL "
- D. At detail 9, at note "4" TRIM AT PERIMETER; TYPICAL" insert at the end "BY 09 51 00"
- E. At detail 9, at note "WIRE SUSPENSION" insert at the end "BY 09 51 00"
- F. At detail 9, at note "CLOUD TORSION SPRING LEVELING SYSTEM" insert at the end "BY 09 51 00"

48. DRAWING A12.4 – FIRST FLOOR FINISH PLAN SECTION AB

- A. In Serving B182, change floor tag "EP-1" to "EP-2" and change floor tag "EP-2" to "EP-2A".

49. DRAWING A12.5 – FIRST FLOOR FINISH PLAN SECTION B1

- A. Near column line X1 at the transition between EM-2 and TER-4, add detail tag for F13/A11.4.

50. DRAWING A12.8 – SECOND FLOOR FINISH PLAN SECTION AB

- A. In Work/Storage Room B285, change floor finish to Carpet Tile pattern of CPT-12, CPT-11, CPT-10, and CTP-1 to match the carpet pattern in Media Center B281.
- B. Delete tags for TER-4 in Corridor B270.

51. DRAWING FP4.3 – A-1st

- A. Refer to Sketch ADD-9/FP012

52. DRAWING FP4.7 – A-2nd

- A. Refer to Sketch ADD-9/FP012

53. DRAWING FP4.11 – A-3rd

- A. Refer to Sketch ADD-9/FP012

54. PLUMBING DRAWINGS

Elevated Gas Pressure Piping Plans are being issued for pricing. These will take the place of all gas piping indicated throughout the building. Note that these plans only indicated gas piping and any gas vents required. They have been approved by the Eversource and the Worcester Plumbing Inspector. They are as follows:

- DRAWING PG3.2 – Ground Floor Gas Piping Plumbing Plan Section B2
- DRAWING PG3.3 – First Floor Gas Piping Plumbing Plan Section A
- DRAWING PG3.4 – First Floor Gas Piping Plumbing Plan Section AB
- DRAWING PG3.7 – Second Floor Gas Piping Plumbing Plan Section A
- DRAWING PG3.8 – Second Floor Gas Piping Plumbing Plan Section AB
- DRAWING PG3.11 – Third Floor Gas Piping Plumbing Plan Section A
- DRAWING PG3.12 – Third Floor Gas Piping Plumbing Plan Section AB

55. DRAWING PG3.2 – GROUND FLOOR GAS PIPING PLUMBING PLAN SECTION B2

A. New Drawing (attached)

56. DRAWING PG3.3 – FIRST FLOOR GAS PIPING PLUMBING PLAN SECTION A

A. New Drawing (attached)

57. DRAWING PG3.4 – FIRST FLOOR GAS PIPING PLUMBING PLAN SECTION AB

A. New Drawing (attached)

58. DRAWING PG3.7 – SECOND FLOOR GAS PIPING PLUMBING PLAN SECTION A

A. New Drawing (attached)

59. DRAWING PG3.8 – SECOND FLOOR GAS PIPING PLUMBING PLAN SECTION AB

A. New Drawing (attached)

60. DRAWING PG3.11 – THIRD FLOOR GAS PIPING PLUMBING PLAN SECTION A

A. New Drawing (attached)

61. DRAWING PG3.12 – THIRD FLOOR GAS PIPING PLUMBING PLAN SECTION AB

A. New Drawing (attached)

62. DRAWING P2.4 – FIRST FLOOR BELOW GRADE PLUMBING PLAN SECTION AB

A. Refer to ADD-9/P-007 for vent piping change at outlet of pH neutralizing system

63. DRAWING P3.2 – GROUND FLOOR GRADE PLUMBING PLAN SECTION B2

A. Change the boiler flue size from 6" CPVC to 8" CPVC. Continue 8" CPVC up thru chase to roof.

B. There is only one HP pump per boiler BLR.

64. DRAWING P3.4 – FIRST FLOOR ABOVE GRADE PLUMBING PLAN SECTION AB

A. Refer to ADD-9/P-008 for vent piping change at outlet of pH neutralizing system and acid vent piping serving the same system. Note that each compartment/chamber of the system needs to be vented. The acid vent piping was increase to 4"

65. DRAWING P3.8 – SECOND FLOOR PLUMBING PLAN SECTION AB

A. Refer to ADD-9/P-009 for acid vent and sanitary vent piping changes at the second floor. They are a continuation from the first floor.

66. DRAWING P3.12 – THIRD FLOOR ABOVE GRADE PLUMBING PLAN SECTION AB

- A. Refer to ADD-9/P-010 for acid vent and sanitary vent piping changes at the third floor. They are a continuation from the first and second floors.

67. DRAWING P4.2 – PARTIAL PLUMBING PLANS SECTIONS A & AB

- A. Refer to ADD-9/P-012 for acid vent pipe size changes at first floor.
- B. Refer to ADD-9/P-013 for acid vent pipe size changes at third floor.

68. DRAWING P4.3 – PARTIAL PLUMBING PLANS SECTIONS A & AB

- A. Refer to ADD-9/P-011 for vent piping change at outlet of pH neutralizing system and acid vent piping serving the same system. Note that each compartment/chamber of the system needs to be vented. The acid vent piping was increase to 4".
- B. Refer to ADD-9/P-012 for acid vent pipe size changes at second floor.

69. DRAWING P4.10 – PLUMBING SCHEDULES

- A. In the Gas Fired Water Heater Schedule, change the venting and combustion air connection size from 3" round to 4" round.
- B. In the Pump Schedule, HP-1, 2 & 3 shall be Bell & Gossett #E-902AAB, 1HP, 208volt, 1 phase in lieu of Grundfos pump specified.

52. DRAWING P3.5 – First Floor Plumbing Plan Section B1

- A. Replace drawing with ADD-9/P3.5

53. DRAWING P3.9 – Second Floor Plumbing Plan Section B1

- A. Replace drawing with Add-9/P3.9

54. DRAWING H3.1 – Ground Level HVAC Floor Plan Section B1

- A. The 8"x8" intake duct connecting to the BC-1 fan coils is open to and drawing air from the ceiling plenum as shown on the drawing.

55. DRAWING H3.5 - First Floor HVAC Plan Section B1

- A. Replace drawing with ADD-9/H3.5

56. DRAWING H3.9 - Second Floor HVAC Plan Section B1

- A. Replace drawing with ADD-9/H3.9

57. DRAWING H3.15 - Roof HVAC Plan Section B1

- A. Replace drawing with ADD-9/H3.5

58. DRAWING H4.5 - First Floor HVAC Piping Plan Section B1

- A. Replace drawing with ADD-9/H4.5

59. DRAWING H4.9 - Second Floor HVAC Piping Plan Section B1

- A. Replace drawing with ADD-9/H4.9

60. DRAWING H6.1 – HVAC Schematics and Controls:

- A. In the RTU-1, 2 & 3 System Control Diagram change the energy recovery wheel motor control points from S/S# and RI# to reflect a VFD with S/S#, RI# and SC# control points along with RS-485 communication to DDC system.

61. DRAWING H6.2 – HVAC Piping Schematics and Controls

- A. In the Boiler Plant Piping and Control Diagram, remove the 12" long 8" decoupler pipe connection.
- B. In the Boiler Plant Piping and Control Diagram, relabel the middle boiler from HWB-1 to as HWB-2. Relabel end boiler from HBW-2 to HWB-3.
- C. In the Boiler Room Ventilation Control Diagram, reflect an EM# motorized damper at the inlet to the outdoor air fan ILF-9.
- D. ADD-8 H007 sketch applies only to the expansion tank model and sizes as clouded on the SK.

62. DRAWING H7.1 – HVAC Schedules

- A. In Custom Fabricated Rooftop Unit Schedule,
 - 1. Add to the end of note #4: "30% propylene glycol."
 - 2. In note #5 change the word "Return" to "Exhaust".
 - 3. In note #10 revise to read: "RTU's based on ClimateCraft, acceptable manufacturers Haakon Industries or Energy Labs Inc."
 - 4. Delete note #12 and replace with "Condensing Unit section shall be remote mounted adjacent to AHU. Refer to Air Cooled Condenser Unit Schedule and specifications."
 - 5. In Note #14 add the following at end of note: "In the Sound Attenuator Schedule SA-1S & SA-1R apply to RTU-1, SA-2S & SA-2R apply to RTU-2 and SA-3S & SA-3R apply to RTU-3"

63. DRAWING H7.2 – HVAC Schedules

- A. Replace Displacement Diffuser Schedule with sketch ADD-9/H010.

64. DRAWING H7.3 – HVAC Schedules

- A. In Sound Attenuator Schedule, add a general note as follows: "-Sound Attenuator models listed are by Price Industries. Acceptable alternate manufacturers Ruskin or IAC Acoustics."
- B. In all Exhaust Variable Air Volume Terminal Schedules, revise the model from "SDE5" to "SDV".

65. DRAWING E0.4B – Electrical Site Power Plan

- A. Revise keyed note #2 to read as such, "School Sign."

- B. Revise keyed note #13 to read as such, "2"C Spare."

66. DRAWING E0.4B – Electrical Site Technology Plan

- A. Refer to Sketch ADD-9/E-102

67. DRAWING E0.5 – Electrical Site Details

- A. Refer to Sketch ADD-9/E-092

68. DRAWING E1.1– Lighting-Ground Floor Plan Section B1

- A. Add general note to read as such, "A minimum light ratio of 8:1 is required between the therapeutic planning rooms and observation rooms. calibrate light levels in observation room to meet this requirement, light switch in observation room shall be programmed to turn on the light fixture at the calibrated intensity. Typical."

69. DRAWING E1.2– Lighting-Ground Floor Plan Section B2

- A. In vestibule B001, add note to light switch to read as such, "Master light switch. Provide with clear protective enclosure/cover."

70. DRAWING E1.6– Lighting-First Floor Plan Section B2

- A. Refer to Sketch ADD-9/E-094

71. DRAWING E1.13– Lighting – Auditorium

- A. Detail #1, Stage B169, add note to (3) type V1 light fixtures (switch code "b") on South Wall to read as such, "Mount to the locking rail. Coordinate with the Architect."

72. DRAWING E2.4– Power- Power First Floor Plan Section AB

- A. Refer to Sketch ADD-9/E-097

73. DRAWING E2.4A– Power- Kitchen Plan

- A. Refer to Sketch ADD-9/E-095
- B. Refer to Sketch ADD-9/E-097

74. DRAWING E2.7– Power-Second Floor Plan Section A

- A. Refer to Sketch ADD-9/E-090

75. DRAWING E2.9– Power-Second Floor Plan Section B1

- A. Refer to Sketch ADD-9/E-099

76. DRAWING E2.11– Power-Third Floor Plan Section A

- A. Refer to Sketch ADD-9/E-090

77. DRAWING E3.3– Technology-First Floor Plan Section A

- A. Refer to Sketch ADD-9/E-091

78. DRAWING E3.4– Technology-First Floor Plan Section AB

- A. In Stair #A1 SA1.1, add PA speaker.
- B. In table Storage B183, add (2) data drops at the AV outlet.
- C. In Cafeteria B181, add (2) data drops at AV outlet at WB2.
- D. Refer to Sketch ADD-9/E-097.

79. DRAWING E3.5– Technology-First Floor Plan Section B1

- A. Mech B178.1 and Elec B179.1., at double doors provide (2) door contacts.

80. DRAWING E3.6– Technology-First Floor Plan Section B2

- A. Refer to Sketch ADD-9/E-091
- B. In Elec B112, add Data outlet with (2) data jacks.
- C. For fire alarm knox box located on the exterior wall of Principal B102, provide addressable module tied into security system.

81. DRAWING E3.7– Technology-Second Floor Plan Section A

- A. In Elec A262, add Data outlet with (2) data jacks.

82. DRAWING E3.6– Fire Alarm-Second Floor Plan Section B2

- A. Gymnasium B139, add note to fire alarm audiovisual devices to read as such, "Fire alarm audiovisual devices in gym shall be mounted on the bottom of the steel beams. Typical."

83. DRAWING 5.2– HVAC Power – Ground Floor Plan Section B2

- A. Refer to Sketch ADD-9/E-100.

84. DRAWING E7.2– Electrical Details

- A. Add note #5 to read as such, "In each room or space where window shades are shown and where photosensor for controlling the shades is not shown, carry in bid 100' of conduit and wiring (labor and material) for the photosensor, coordinate location of photosensor with the architect."

85. DRAWING E8.0G– Electrical – Power Monitoring Riser, Details and Schedules

- A. Refer to revised drawing.

86. DRAWING E8.2B– Fire Alarm Riser

- A. Refer to Sketch ADD-9/E-093

87. DRAWING E8.6A– Public Address System Riser

- A. Refer to Sketch ADD-9/E-096

88. DRAWING E9.01– Light Fixture Schedule

- A. Light fixture type LPM, revise fixture diameter to 6FT.
B. Light fixture type V5, revise to METALUX-VHBLED-LD1-12-W-UNV-L835-5LTD-DALI DRIVER-CHAIN SET

89. DRAWING E9.02– Equipment Schedule

- A. Refer to Sketch ADD-9/E-100

90. DRAWING E9.09– Panel Schedule

- A. Refer to Sketch ADD-9/E-098
B. Refer to Sketch ADD-9/E-101

ATTACHMENTS

DOCUMENTS:

1. Specification Section 10 14 00 - Signage

DRAWINGS/SKETCHES:

PHASING

1. PH-2 Fontaine-WT Rich Phasing Plan
2. PH-2A Fontaine-WT Rich Phasing Plan
3. PH-3 Fontaine-WT Rich Phasing Plan
4. PH-3A Fontaine-WT Rich Phasing Plan

ARCHITECTURAL DRAWINGS

1. DRAWING A6.24 Skylight Plan, Sections & Details
2. DRAWING A8.2 Typical Science Lab Interior Elevations
3. DRAWING A8.22 Interior Elevations – Art & Music
4. DRAWING A8.26 Interior Details Building B2

ARCHITECTURAL SKETCHES

1. ADD-9/A-025 Building A Stair #2 Curtain Wall CW15 Elevation Revisions
2. ADD-9/A-026 Building A Stair #2 Curtain Wall CW15 Section Revisions
3. ADD-9/A-027 Curtain Wall Sill at Calcium Silicate Revisions
4. ADD-9/A-028 Partial First Floor RCP Section AB
5. ADD-9/A-029 Partial First Floor Plan Section B2
6. ADD-9/A-030 Lobby Partial NW Interior Elevation
7. ADD-9/A-031 Transition Flashing (Transition Membrane) Typical Details
8. ADD-9/A-032 Curtain Wall CW #7A Head Revisions
9. ADD-9/A-033 Building A Roof Expansion Joint Revision

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|-----|-------------|---|
| 10. | ADD-9/A-034 | Building B2 Curtain Wall CW #7A Sill Revision |
| 11. | ADD-9/A-035 | Curtain Wall Head at Fiber Cement Siding Revisions |
| 12. | ADD-9/A-036 | Floor Finish Legend |
| 13. | ADD-9/A-037 | Ceramic Tile at Kitchen B184 |
| 14. | ADD-9/A-038 | Typical Window, Curtain Wall & Storefront Stool Details |
| 15. | ADD-9/A-039 | Display Case D2 Section (D1 Similar) |
| 16. | ADD-9/A-040 | Building B1 Level 1 Corner at Mech B178-1 Revision |
| 17. | ADD-9/A-041 | Revised Storefront Frame Elevation S9 |
| 18. | ADD-9/A-042 | Building B1 Wall Section at Column Line 20 Revision |
| 19. | ADD-9/A-043 | B175 Auditorium Ceiling & Grid |
| 20. | ADD-9/A-044 | Band & Chorus Storage Casework by 12 35 51 |
| 21. | ADD-9/A-045 | Uniform and Auditorium Storage Casework by 12 35 51 |
| 22. | ADD-9/A-046 | Enlarged Team Room & Locker Room Plans |
| 23. | ADD-9/A-047 | Storefront Ribbon Sill at Composite Metal Panel Revision |
| 24. | ADD-9/A-048 | Storefront Ribbon Jamb at Spandrel Glass Revision |
| 25. | ADD-9/A-049 | Display Case D3 & D4 Detail |
| 26. | ADD-9/A-050 | Display Case D3 & D4 Sill Detail |
| 27. | ADD-9/A-051 | Roof Assembly Type Revisions |
| 28. | ADD-9/A-052 | Curtain Wall CW2 Head at Roof Edge |
| 29. | ADD-9/A-053 | Enlarged Plan @ Stair #B1 – First Floor |
| 30. | ADD-9/A-054 | Enlarged Plan @ Stair #B1 – Second Floor |
| 31. | ADD-9/A-055 | Enlarged Plan @ Stair #B1 – Third Floor |
| 32. | ADD-9/A-056 | Stair #B1 Section E-W |
| 33. | ADD-9/A-057 | Stair #B1 Section N-S |
| 34. | ADD-9/A-058 | Building B2 Roof Detail Col. Line 31.1 Revisions |
| 35. | ADD-9/A-059 | Building B2 Roof Separation Curb at Col. Line N Revisions |
| 36. | ADD-9/A-060 | Building AB Roof Separation Curb at Col. Line AA.2 |
| 37. | ADD-9/A-061 | Building AB Roof Separation Curb Col. Line 33 Revisions |
| 38. | ADD-9/A-062 | Fiber Cement at Curtain Wall CW2A Jamb Typical Notes |
| 39. | ADD-9/A-063 | Roofing to Curtain Wall Sill Revisions |
| 40. | ADD-9/A-064 | Partial Elevations - Third Level Revisions |
| 41. | ADD-9/A-065 | Partial South Elevation (3rd Floor Section AB) Revisions |
| 42. | ADD-9/A-066 | Roof Plan Section B2 Revisions |
| 43. | ADD-9/A-067 | Typical Art Classroom |
| 44. | ADD-9/A-068 | Decorative Wall Panel Types (Wedges) |
| 45. | ADD-9/A-069 | Proscenium Head Detail |
| 46. | ADD-9/A-070 | MW-12 Solid Surface Counter with Sink |
| 47. | ADD-9/A-071 | Roof Edge at High Parapet Revisions |
| 48. | ADD-9/A-072 | Roof Parapet at Building B2 – Entrance Revisions |
| 49. | ADD-9/A-073 | Roof Plan – Section B1 Stage Roof Revision |
| 50. | ADD-9/A-074 | Section Detail at Gymnasium Chase and RA Grille |
| 51. | ADD-9/A-075 | HM Frame Detail at Lobby-Corridor to Gym BL15 |
| 52. | ADD-9/A-076 | Resilient Athletic Flooring to Corridor – Door B139C |
| 53. | ADD-9/A-077 | Resilient Athletic Flooring to Corridor – Door B139A |
| 54. | ADD-9/A-078 | Building B1 Ground Level Corner at Life Skills Revision |
| 55. | SKA-001 | Brick Shelf Revisions |
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FIRE PROTECTION

1. ADD-9/FP-012 Pipe Sizes and Routing Clarified

PLUMBING - DRAWINGS

1. ADD-9/P3.5 First Floor Plumbing Plan Section B1
2. ADD-9/P3.9 Second Floor Plumbing Plan Section B1
3. DRAWING PG3.2 Ground Floor Gas Piping Plumbing Plan Section B2
4. DRAWING PG3.3 First Floor Gas Piping Plumbing Plan Section A
5. DRAWING PG3.4 First Floor Gas Piping Plumbing Plan Section AB
6. DRAWING PG3.7 Second Floor Gas Piping Plumbing Plan Section A
7. DRAWING PG3.8 Second Floor Gas Piping Plumbing Plan Section AB
8. DRAWING PG3.11 Third Floor Gas Piping Plumbing Plan Section A
9. DRAWING PG3.12 Third Floor Gas Piping Plumbing Plan Section AB

PLUMBING – SKETCHES

1. ADD-9/P-007 First Floor Below Grade Plumbing Plan Section AB
2. ADD-9/P-008 First Floor Above Grade Plumbing Plan Section AB
3. ADD-9/P-009 Second Floor Above Grade Plumbing Plan Section AB
4. ADD-9/P-010 Third Floor Above Grade Plumbing Plan Section AB
5. ADD-9/P-011 Partial First Floor Plumbing Plan Section AB
6. ADD-9/P-012 Partial First & Second Floor Plumbing Plans Section AB
7. ADD-9/P-013 Partial Third Floor Plumbing Plan Section AB

HVAC - DRAWINGS

1. ADD-9/H3.5 First Floor HVAC Plan Section B1
2. ADD-9/H3.9 Second Floor HVAC Plan Section B1
3. ADD-9/H3.15 Roof HVAC Plan Section B1
4. ADD-9/H4.5 First Floor HVAC Piping Plan Section B1
5. ADD-9/H4.9 Second Floor HVAC Piping Plan Section B1

HVAC - SKETCHES

1. ADD-9/H-010 Displacement Diffuser Schedule

ELECTRICAL - SKETCHES

1. ADD-8/E090 Power-Second & Third Floor Plan Section A
2. ADD-8/E091 Technology-First Floor Plan Section B
3. ADD-9/E092 Electrical Site Details
4. ADD-9/E093 Fire Alarm Graphical Command Center
5. ADD-9/E094 Lighting – Locker Rooms
6. ADD-9/E095 Kitchen Display Panel Relocation
7. ADD-9/E096 Public Address Rack Servers
8. ADD-9/E097 First Floor - Power & Technology
9. ADD-9/E098 Panel HSP13
10. ADD-9/E099 Power – Convenience Outlets at Catwalk

- 11. ADD-9/E100 HVAC Power – HP-1, HP-2 and HP-3
- 12. ADD-9/E101 Panel HSPM
- 13. ADD-9/E102 Exterior Camera Power
- 14. ADD-9/E8.0G Electrical – Power Monitoring Riser, Details and Schedules

END OF ADDENDUM #9

Section 10 14 00
SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

- A. Furnish and install the following informational and directional signage:
1. Interior Room signage:
 - a. Primary room signage: Photopolymer AAB-compliant room signage adhered with double sided acrylic foam tape, typical at all permanent spaces (including but not limited to Classrooms, Science Labs/Prep Rooms, Offices, Meeting Rooms, Vocational Shops, Gymnasium/PE spaces, Locker Rooms, Media Center, Auditorium/Stage, Kitchen/Cafeteria and related Food Services spaces, Medical spaces, Pre-K/Day Care spaces, ROTC spaces, Building Services spaces, Storage Rooms and Toilet Rooms); with removable name holder slot; 0.16 inch thick, with backed acrylic polyurethane enamel paint, and raised Braille cells.
 2. Interior Egress signage:
 - a. Photopolymer AAB-compliant egress signage; 9.5 inch by 12 inch; adhered with double sided acrylic foam tape, typical at all permanent spaces (including but not limited to Classrooms, Science Labs/Prep Rooms, Offices, Meeting Rooms, Vocational Shops, Gymnasium/PE spaces, Locker Rooms, Media Center, Auditorium/Stage, Kitchen/Cafeteria and related Food Services spaces, Medical spaces, Pre-K/Day Care spaces, ROTC spaces, Building Services spaces, Storage Rooms and Toilet Rooms); with slot for 8.5 inch x 11 inch egress floor plan.
 - b. Raised character and braille exit signage: Photopolymer AAB-compliant room signage; 8 inch by 8 inch; adhered with double sided acrylic foam tape, typical at the following locations:
 - 1) Exit stairways and ramps.
 - 2) Exit passageways.
 - 3) Exit discharge.
 - 4) Mounting: Sixty (60) inches above finished floor on latch side of each door.
 3. Maximum occupant load sign at every space for use as a place of public assembly, designated as an "A" Occupancy Type on the Drawings, 8 inch by 8 inch. Provide two (2) signs for each space; locations of signs to be reviewed and approved by Architect.
 4. Interior signage:
 - a. Directional Signage:
 1. Photopolymer AAB-compliant directional signage
 - b. Custom neon sign and cast aluminum individual letters at Cafeteria; refer to Drawings.
 5. Exterior signage:

SIGNAGE

- a. Cast aluminum individual letters at Main First Floor level entry, Ground Floor level entry, First Floor Athletics/PE entry, Auto Client Services entry, Andy's Attic entry and at Apricot Street school sign; refer to Drawings.
 - b. Die-cut vinyl letters/numbers for identification of all exterior doors.
- 6. Dedication plaque.
- 7. Hazardous material signage complying with NFPA 704 at A334 Chemical Storage, B024 Storage, B029 Storage and B036 Storage.
- B. Alternates: Special attention is called to the fact that it shall be the responsibility of the Construction Manager, Trade Contractors and all subcontractors to thoroughly examine all the alternates and evaluate for themselves as to whether or not these alternates in any way affect their respective section. In the event that the Construction Manager, Trade Contractor or subcontractor feels that any alternate(s) do reflect a cost difference, additional or a deduction in his bid proposal, then he shall so stipulate this sum and/or sums under the proper alternate(s) as provided for the bid proposals. Failure to do so will in no way relieve the hereinbefore stated Construction Manager, Trade Contractor or subcontractors of their responsibilities regardless of what alternate(s) is selected. No extra cost will be charged to the Owner. Refer to Section 01 23 00 - ALTERNATES for the list and description of Alternates.

1.2 RELATED REQUIREMENTS

- A. Section 01 60 00 - PRODUCT REQUIREMENTS: Listing of VOC requirements for adhesives, cleaning/maintenance materials, paints, coatings, and sealants.
- B. Section 01 74 19 - CONSTRUCTION WASTE MANAGEMENT: Procedural and administrative requirements for construction and demolition recycling.
- C. Section 01 81 13 - SUSTAINABLE DESIGN REPORTING: Special administrative and procedure requirements related to the Owner's *LEED v4, LEED for Building Design and Construction, LEED BD+C: Schools* rating system certificate goals of energy conservation and efficiency, indoor air quality, and natural resource efficiency.
- D. Section 01 50 00 - TEMPORARY FACILITIES AND CONTROLS: Temporary project sign and safety signage.
- E. Section 01 81 19 – INDOOR AIR QUALITY REQUIREMENTS.
- F. Section 06 10 00 – ROUGH CARPENTRY: In-wall blocking.
- G. Division 26 – ELECTRICAL: Power wiring and lighting at signage.
- H. Division 32 - EXTERIOR IMPROVEMENTS: Traffic and parking control signage, site school sign.
- I. The following items shall be procured under a separate Construction Manager allowance and are not part of the scope for this section:
 - 1. Building Directory at Main Lobby #B100 (adjacent to Vestibule #B100.1)
 - 2. South High History Wall at Main Lobby #B100 (above Display Case 1)
 - 3. Word Wall at Main Lobby #B100 (above Display Case 2)

4. Wayfinding Signage over and above Directional Signage specified herein

1.3 SUBMITTALS

- A. Submit the following under provisions of Section 01 33 00 - SUBMITTAL PROCEDURES:
1. Literature: Manufacturer's product data sheets, specifications, physical properties for each item furnished hereunder.
 2. Schedule: The Architect will prepare and issue a schedule for all identification devices to be furnished hereunder, including character types, and colors. After receipt of the Architect's schedule, prepare and submit shop drawings and verification schedule.
 3. Shop drawings:
 - a. Plan drawing showing location of each interior and exterior sign. Coordinate plan with schedule.
 - b. Elevation drawings showing full size elevations of each sign. Indicate for each sign: sign styles, lettering and locations, and overall dimensions.
 - c. Large scale design details of signs, showing attachment clips and brackets; and complete installation details.
 4. Selection samples:
 - a. Sample plastic chips indicating Manufacturer's full range of colors available for initial selection by Architect.
 5. Verification samples:
 - a. Full size sample sign, of type, style and color specified including method of attachment.
 - b. Full size stainless steel letter in specified size, finish and typeface, with mounting collar and stud.
 - c. Full size sign in specified finish and typeface. Approved sample may be used in finished Project.
 6. LEED Submittal Requirements:
 - a. Submit completed LEEDv4 Materials Reporting for applicable material requirements as required in Section 01 81 13 – SUSTAINABLE DESIGN REQUIREMENTS. Submit all required backup documentation.
 - b. The work of this Section includes responding to Architect or Contractor requests for additional information or product data and may be required following initial Green Building Certification Institute (GBCI) review of LEED Application.
 - c. Product substitution requests are subject to additional LEED submittal requirements including, but not limited to, Environmental Product Declarations (EPD), Health Product Declarations (HPD), and General Emissions Testing. See Section 01 25 13 – PRODUCT SUBSTITUTION PROCEDURES.

1.4 REGULATORY REQUIREMENTS

- A. Comply with all applicable federal, state and municipal codes, laws and regulations regarding signage, both interior and exterior.

1.5 QUALITY ASSURANCE

- A. Sign fabricator specializing in the work of this Section with a minimum of 3 years experience.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Delivered packaged signs, labeled in name groups.
- B. Store all materials in an elevated dry location, protected by waterproof coverings. Store adhesive tape at ambient room temperature.

1.7 ENVIRONMENTAL CONDITIONS

- A. Do not install adhesive applied signs when ambient temperature is below 70 degrees Fahrenheit. Maintain this minimum during and after installation of signs.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers: Subject to compliance with the requirements specified herein, manufacturers offering products which may be incorporated in the work include the following, or approved equal:
 - 1. Interior plaque signs:
 - a. Apco New England, Franklin, MA.
 - b. Design Communications, Boston, MA.
 - c. Sunshine Sign, North Grafton, MA.
 - d. General Sign Company, Norwood, MA.
 - e. Back Bay Sign Company, Somerville, MA.
 - 2. Individual letter signage:
 - a. ARK Ramos, Oklahoma City, OK.
 - b. Gemini Inc., Cannon Falls, MN
 - c. Matthews International Corporation, Pittsburgh, PA
 - d. Metal Arts, Mandan, ND.

2.2 SIGNAGE - GENERAL

- A. General: Provide sign copy to comply with the requirements indicated in the Drawings, for sizes, styles, spacing, content, positions, materials, finishes and colors of letters.
 - 1. All Signs shall conform to United States "*Americans with Disabilities Act*" and Commonwealth of Massachusetts Regulation 521 CMR: *Architectural Access Board*.
 - 2. Final placing, (mounting heights) and sizing of lettering shall be in full compliance with 521 CMR requirements. Lettering shall have stroke width to height ratio and width to height ratio in accordance with the "*Americans with Disabilities Act*".

- B. Installation of all signs shall be done by vandal-proof method, fully described on the shop drawings.

2.3 INTERIOR ROOM SIGNAGE

- A. Photopolymer plaque signage (general requirements): Identification signs with raised tactile graphics, text, and Grade 2 Braille. Signs shall consist of 1/32 inch thick synthetic light sensitive photo emulsion permanently bonded to a rigid phenolic substrate, aluminum or acrylic plaque.
 - 1. Room signage as follows:
 - a. 8 inches by 6 inches for room signs with removable name holder slots (Teaching spaces, offices and other similar locations).
 - b. 8 inches by 4 inches for all other signs except as indicated.
 - c. 8 inches by 8 inches for room signs with pictograms.
 - 2. Raised lettering: Minimum above the surface of the sign 1/32", and be in compliance with Americans with Disabilities Act.
 - a. Bond photopolymer permanently to sign plaque, with appropriate laminating film, as recommended by the photopolymer manufacturer.
 - 3. Lettering height: To be determined.
 - 4. Lettering font: To be determined.
 - 5. Screenprinting: All screen printing graphics, including raised areas of tactile plaques except Braille, shall be screen printed in a contrasting color so as to meet the color contrast requirements of Americans with Disabilities Act.
 - a. All non-tactile text shall be screen printed with catalyzed epoxy ink. Applied vinyl lettering and graphics is not acceptable.
 - b. Apply screen printing inks evenly without pinholes, scratches or orange-peeling.
 - 6. Graphics: All text, symbols and graphics shall be reproduced utilizing computer generated digital art. All screen printed graphics shall utilize photographically prepared screens and shall be printed in accordance with industry standards. Hand cut screens are not acceptable.
 - a. All edges and corners and letter forms shall be true and clean. Letterforms, color areas, or lines with rounded positive or negative corners, built-up edges, bleeding, spattering, etc., shall not be accepted.
 - b. Prepare artwork from typesetters reproduction of the test specified, minimum 1200 dpi resolution, camera ready artwork. All camera ready artwork and typesetting shall be no less than 75 percent of actual finished size.
 - 7. Mounting: Surface applied by means of silastic adhesive mounting. Provide back panel at all glass mounted locations.
 - 8. Sign colors: As selected by Architect from manufacturer's standard and standard special colors.
 - a. All signs shall be two color signs.
 - 9. Allow one room identification sign for every room entry door on the plans.

2.4 INDIVIDUAL CAST LETTERS

- A. Material: Aluminum (Alloy #514)
- B. Finish: Finish shall be painted; custom colors as selected by Architect; belt sanded faces; liquid sprayed with a 2-part hardened polyurethane; bead-blasted returns; baked.
- C. General Construction: Cast letters shall be sand cast from standard pattern files
- D. Font: Fonts shall be selected by Architect from full range of available styles.
- E. Sizes: Refer to Drawings.
- F. Mounting:
 - 1. Blind aluminum studs; letters drilled and tapped; provide spacer sleeves

2.5 DIRECTIONAL SIGNAGE INTERIOR

- A. Directional signage (photopolymer AAB-compliant plaque signage): Upper and lower case letters. Signs shall be 12 inches in width by 18 inches in height, with square corners and raised frame.
 - 1. Provide fifty (50) signs, locate where directed.
- B. Photopolymer plaque signage with raised tactile graphics and adhesive mounting.

2.6 DEDICATION PLAQUE

- A. Plaques:
 - 1. Letterform: Initial capitals, normal spacing with font directed by Architect.
 - 2. Finish: Enamel background with color to match Architect's sample.
 - 3. Copy: To be issued; the plaques will include the following:
 - a. Name of Building.
 - b. Names of City Councilors.
 - c. Names of Building Committee members.
 - d. Name of Architect.
 - e. Name of Construction Manager.
 - f. Dedication statement of approximately 500 characters.
 - g. Time Capsule statement of approximately 100 characters.
 - 4. Mounting: Flush, mechanically fastened on interiors
 - 5. Edge: Raise bevel edge at entire perimeter.
 - 6. Background Texture: Pebble leather grain.
 - 7. Metal: Stainless steel.
 - 8. Size: 24 inches by 30 inches, raised letter stainless steel plaque.
 - 9. Beveled edge raised with reveal line.
 - 10. Concealed post mounting.
 - 11. Text content: As determined by the Architect.

2.7 EXTERIOR DOOR IDENTIFICATION SIGNAGE

- A. Signage at exterior door frames: Provide individual lettering mounted at the top center portion of each exterior door frame, both on the exterior and interior sides.
 - 1. Door frame signage, (At interior side of exterior doors): Adhesive mounted photopolymer plaque signage.
 - 2. Door frame signage, (At exterior side of exterior doors): Die-cut copy characters, from opaque non-reflective cast vinyl film, with pressure sensitive adhesive backing.
 - a. Letterform: 1 inch high, upper case, normal spacing with font directed by Architect.

2.8 CUSTOM NEON SIGNAGE

- A. Indoor; wall-mounted “Colonel” graphic.
- B. White backing.
- C. 9’ high x 7’ wide (approximate).
- D. Multi-color; non-flashing.

2.9 ACCESSORIES

- A. Exposed mounting hardware: Stainless steel tamper resistant screws.
- B. Adhesive tape: Double sided tape, permanent adhesive.
- C. Anchors and inserts for stainless steel letters:
 - 1. Stainless steel collars, finished to match letter edges.
 - 2. Mounting studs: Threaded type 304 stainless steel studs.
- D. Fasteners for interior aluminum plate signage: N°. 6 stainless steel wood screws, round head.

2.10 FINISHES

- A. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors, related to appearance. Color provided by the Architect.
- B. Metal Finishes: Comply with NAAMM “Metal Finishes Manual” for finish designations and application recommendations.
- C. Stainless steel finish: ASTM A666, Type 304 stainless steel with satin finish.
- D. Aluminum Finishes: Finish designations prefixed by AA conform to the system established by the Aluminum Association for designation aluminum finishes.
 - 1. Class II Clear Anodized Fine Satin Finish: AA-M31C21 A31 (Mechanical Finish: Fine satin direction textured’ Chemical Finish: Fine matte etched finish’ Anodic Coating,

- E. Paints: Paint for signs is acrylic polyurethane enamel, eggshell finish. Paint for background of tactile photo-polymer signs is eggshell finish automotive grade lacquer. All surfaces shall be cleaned, primed and pre-treated according to the manufacturer's specifications and noted in Shop Drawings as part of the finished surface work.
- F. Inks:
 - 1. Inks for metal signs, glass and wall surfaces are Alkyd enamel based inks.
 - 2. Inks for plastic signs are lacquer based inks.
 - 3. Inks for tactile graphics on photo-polymer signs are eggshell finish Low Odor Vinyl Ink.
 - 4. Inks for filling acid-etched graphics in metal signs are semi-gloss epoxy ink.
 - 5. All inks and paints are evenly applied without pin-holes, scratches or application marks. Prime coats or other surface pre-treatments, where recommended by the manufacturers are included in the work and noted in the shop drawings as part of the finished surface work.

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL

- A. Locate sign units and accessories where indicated, locations in accordance with the approved shop drawings. Use mounting methods of the type described and in compliance with manufacturer's instructions.
- B. Install signs plumb, level and true to height indicated, with sign surfaces free from distortion or other defects in appearance.
- C. Shop fabricate signs where practical and deliver to site completely assembled. All joints of such fabricated work are completely smooth without apparent marks showing throughout the finish. All work "broken down" is erected so that all parts fit accurately with hairline joints, with all joints flush. Joints in lighted signs shall be light-proof.
- D. Wall and door mounted signs; All sign plaques mounted at glass door locations shall be backed with plaque of same size, thickness, material and color on opposite side to mask mounting adhesive.
 - 1. Attach to surfaces as follows:
 - a. Vinyl Tape Mounting: Use very high bond, double sided foam tape, of thickness indicated, to mount signs to smooth nonporous surface. Use construction adhesive in conjunction with foam tape.
 - b. Silicone Adhesive Mounting: Use appropriate liquid silicone adhesive to attach sign units to irregular, porous , or vinyl-covered surfaces. Use double-sided vinyl tape to hold the sign in place until the adhesive has fully cured.
- E. Dimensional Letters and Numbers: Mount letters and numbers using threaded studs, foam tape and construction adhesive as indicated in the detail drawings. Provide heavy paper template to establish letter spacing and to locate holes for fasteners.

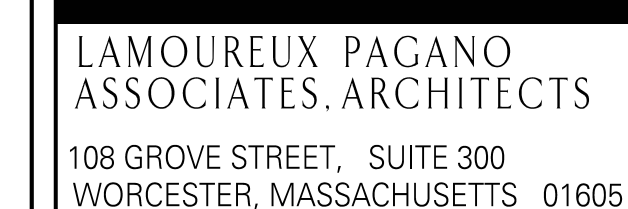
3.2 CLEANING

- A. Clean and polish installed signs.
- B. Upon completion of the work of this Section in any given area, remove tools and all rubbish and debris from the work area; leave area in broom-clean condition.
- C. Remove all names, stamps and decals of sign manufacturers, and installers. No visible advertising of any kind is permitted.

3.3 SCHEDULES

- A. Signage: nominal 8 by 8 inch size sign, having 1-1/2 inch high letters, identifying the room number and Braille strip; verify mounting locations with Architect.
- B. At each door to the following room types, provide sign, having 1-1/2 inch high letters identifying room label, a maximum of 2 lines of copy, and Grade 2 Braille strip.
 - 1. Janitor's Closets.
 - 2. Elevator Machine Room.
 - a. Elevator Machine Room signage shall be in full compliance with the Massachusetts Comprehensive Fire Safety Code (527 CMR).
 - 3. Electrical and Telephone closets.
 - 4. Sprinkler Valve Room.
 - 5. Equipment and Mechanical Rooms.
- C. At toilet room doors: provide: nominal 8 by 8 inch size sign, having 3 inch high international symbol for men/women (as appropriate) beneath provide 5/8 inch high text "MEN", "WOMEN" or "TRANSGENDER" (as appropriate), raised 1/32 inch and a Grade 2 Braille strip.
 - 1. Provide international handicap symbol.

End of Section

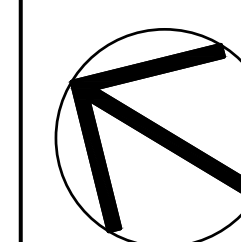


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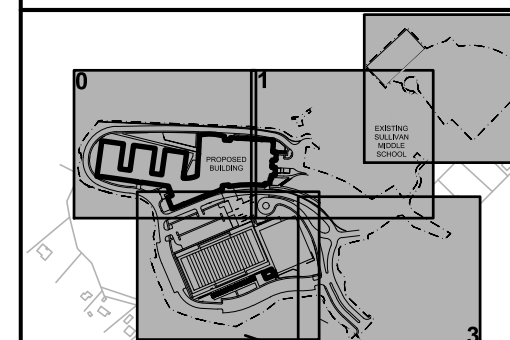
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Community School

170 Apricot Street, Worcester, MA 01603

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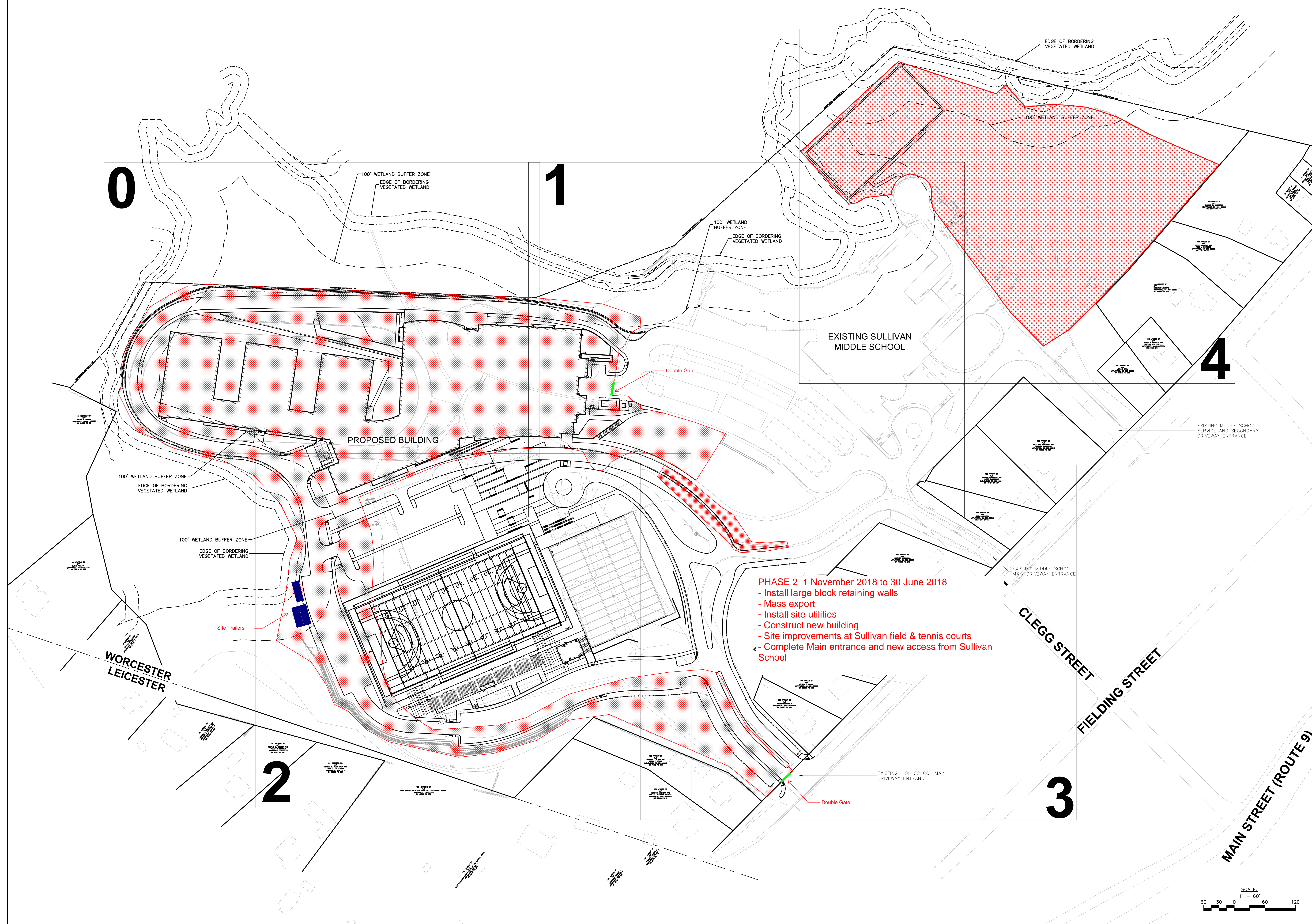
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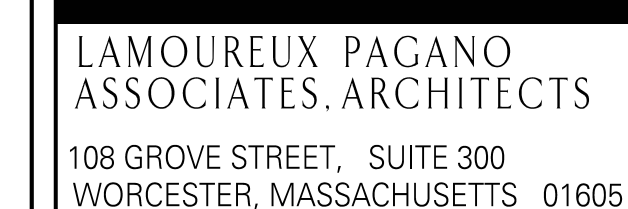
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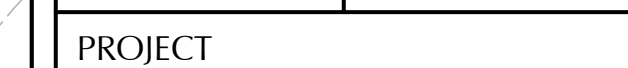
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TITLE

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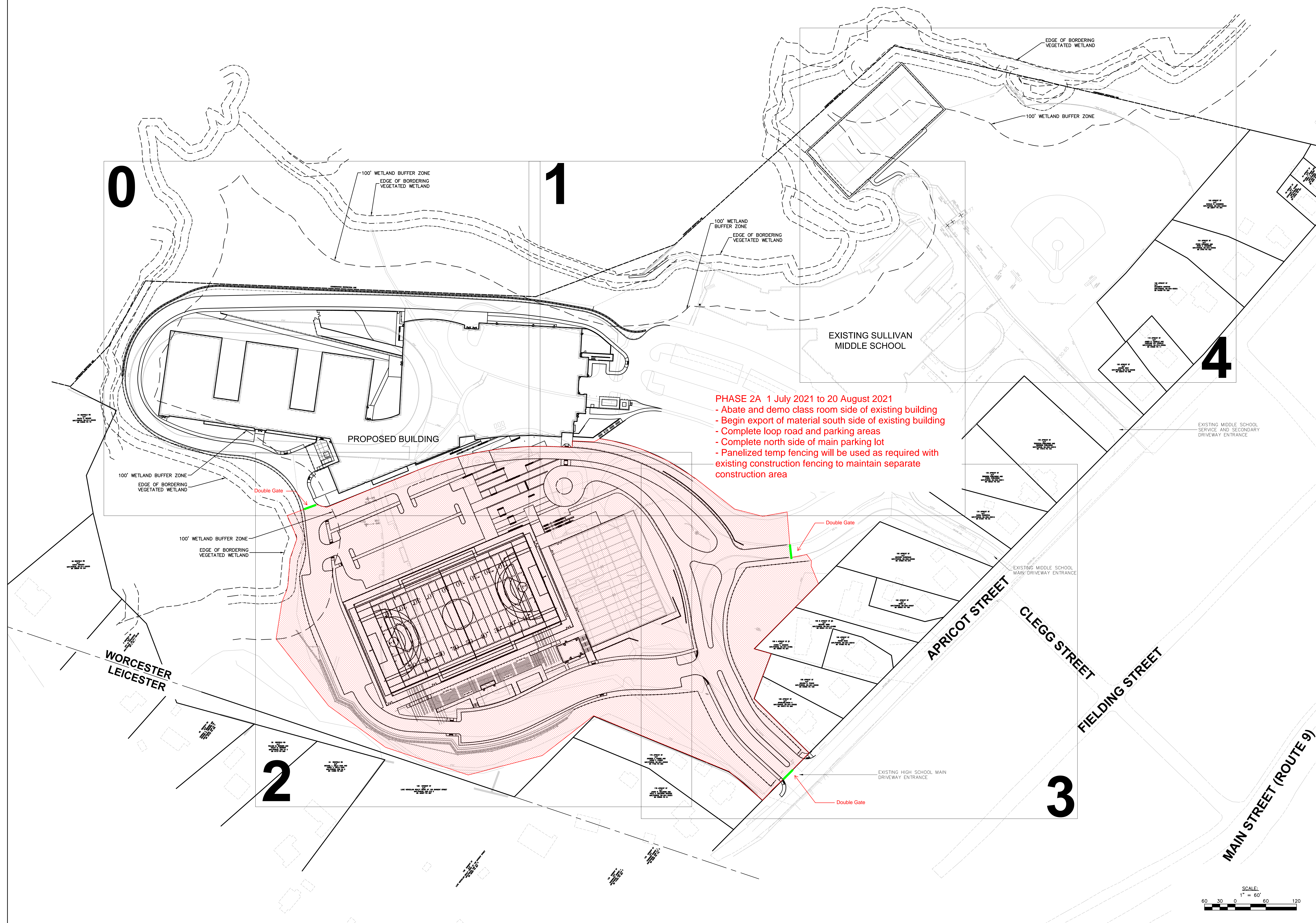
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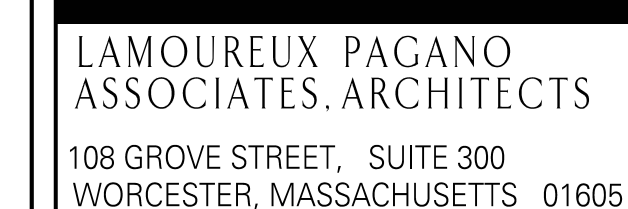
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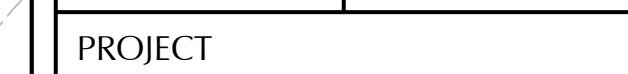
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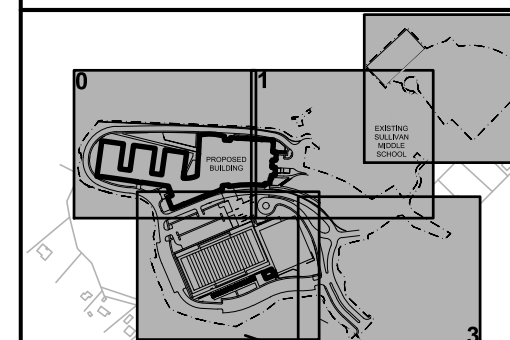
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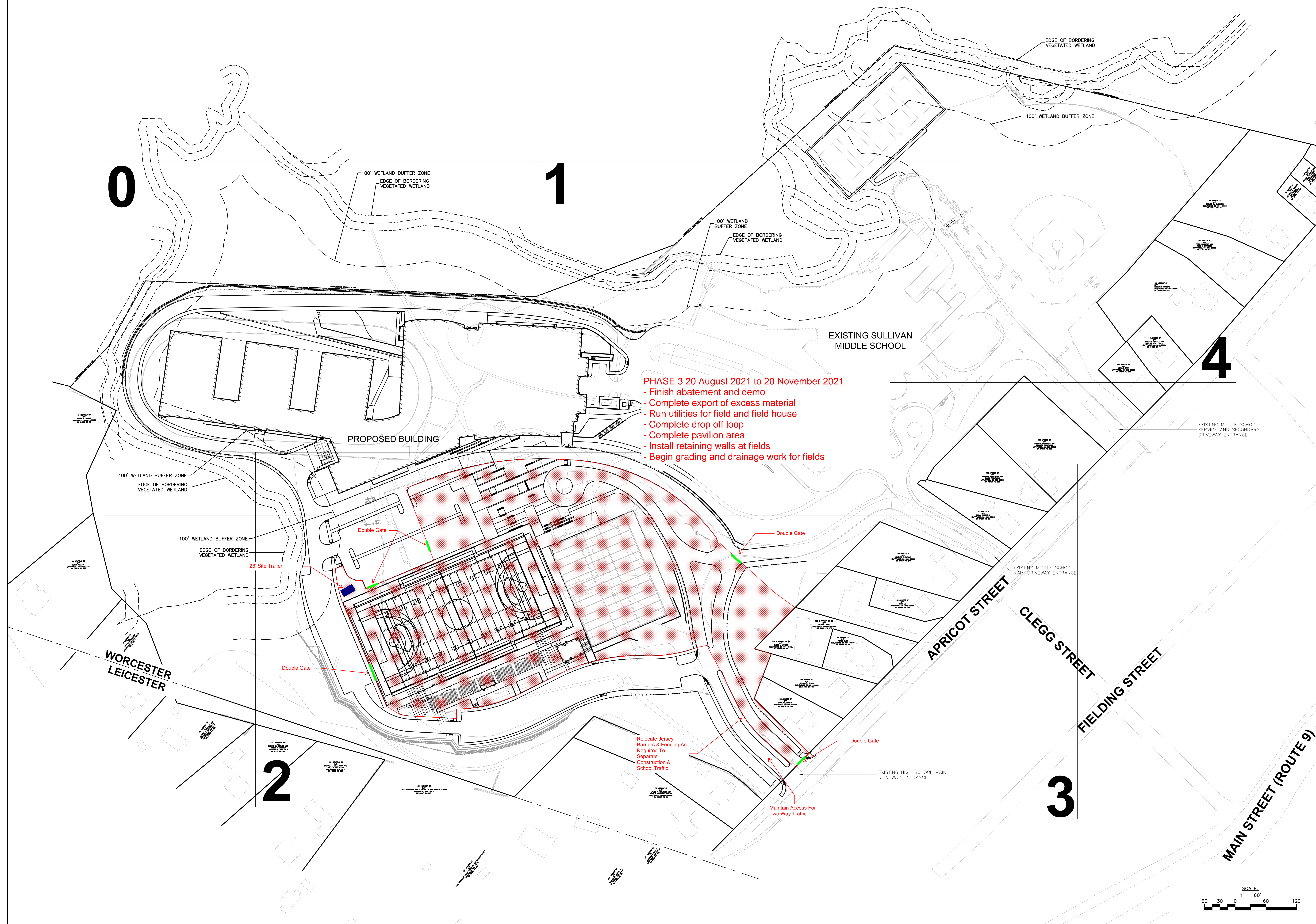
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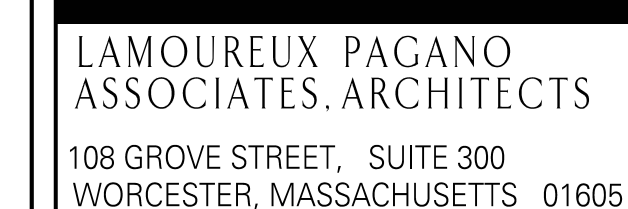
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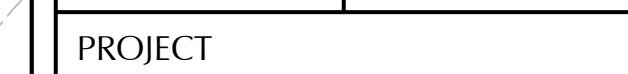
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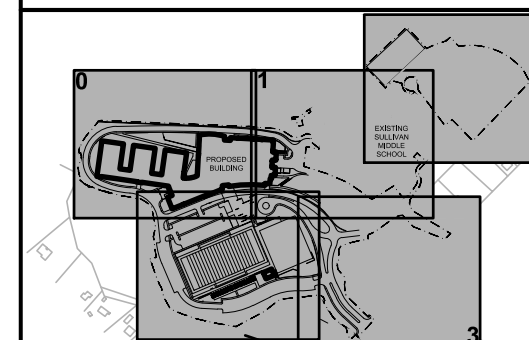
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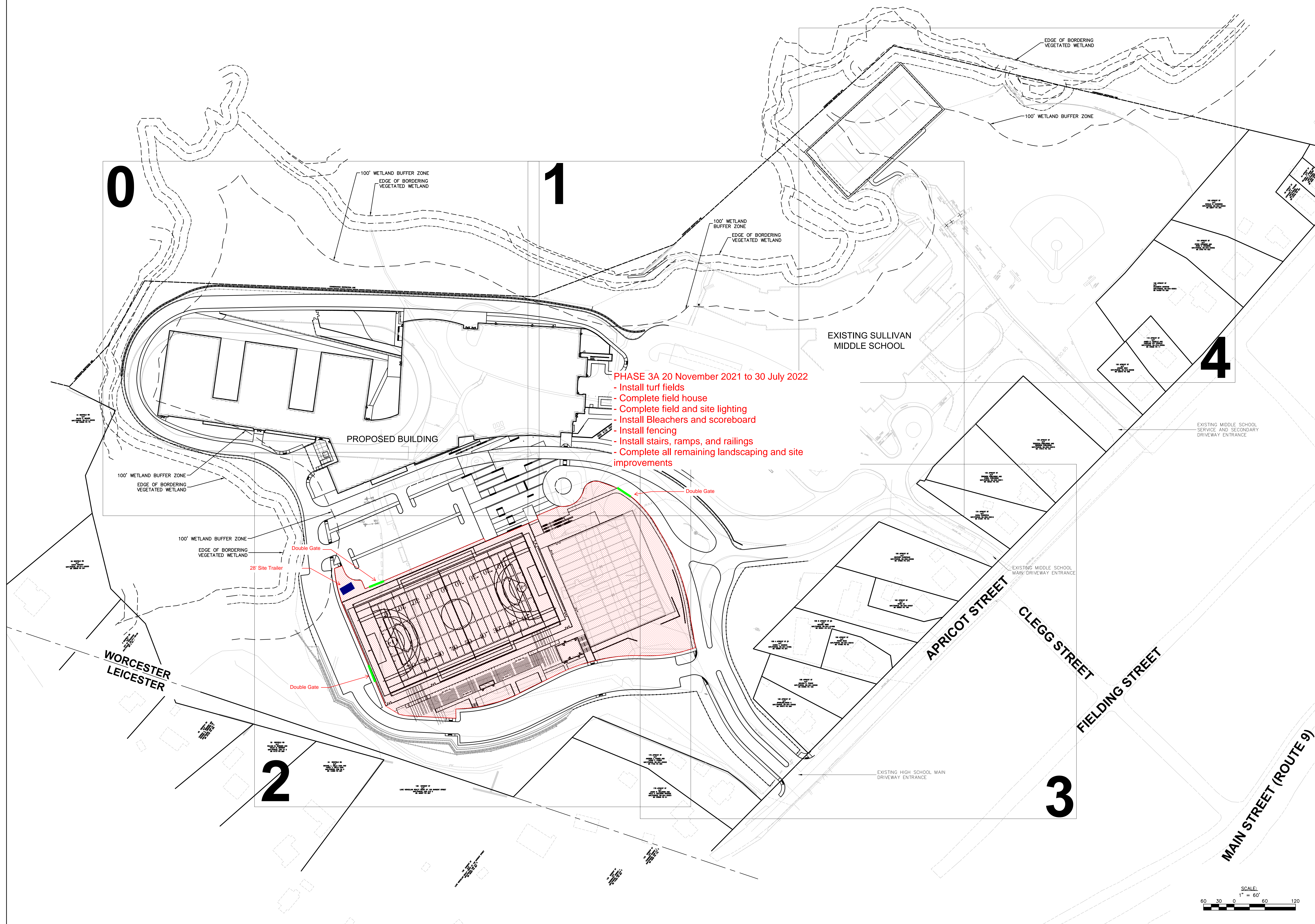
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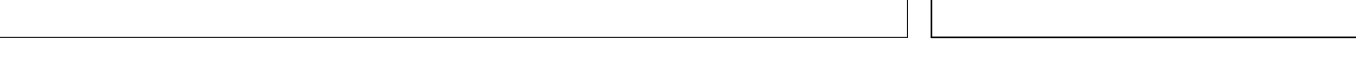
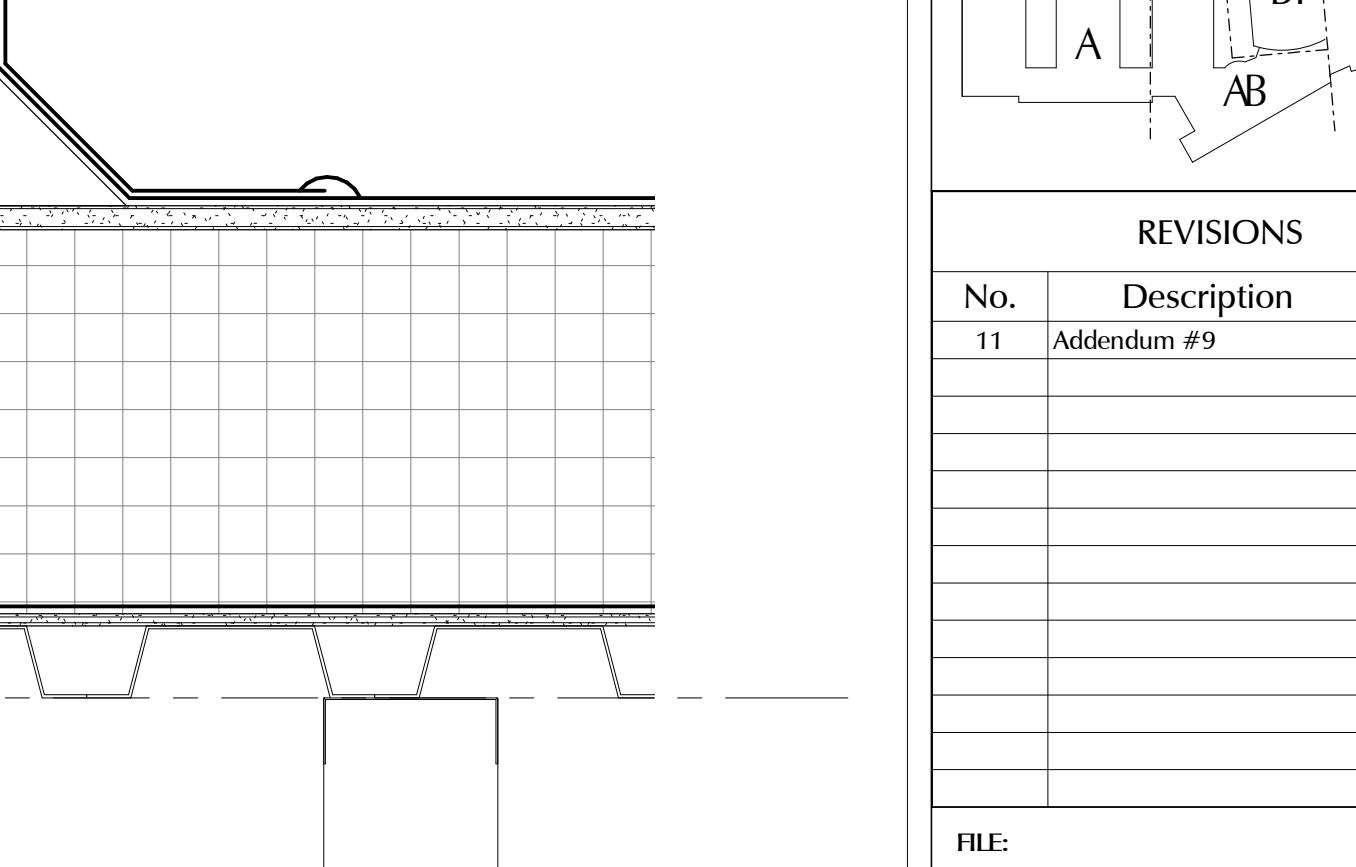
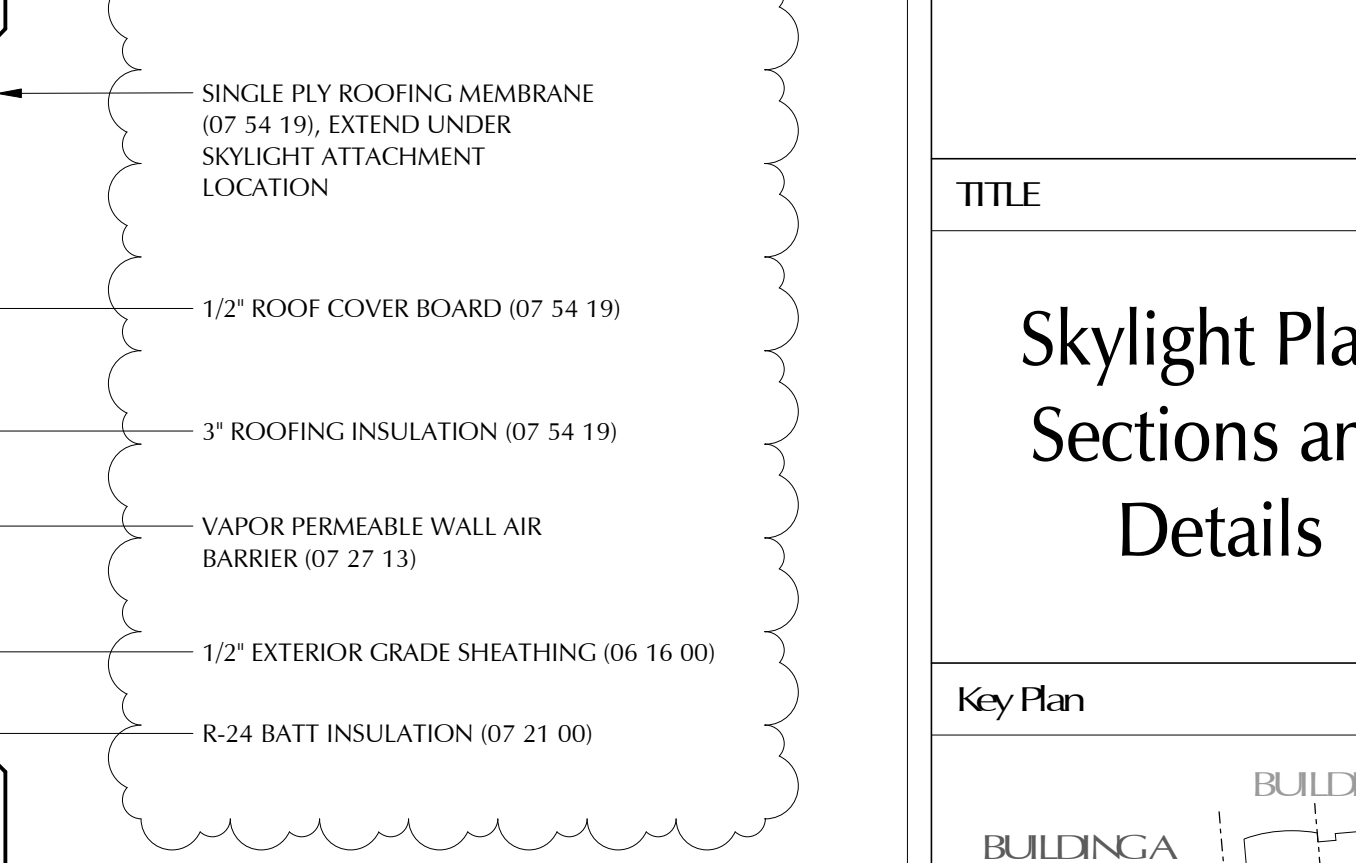
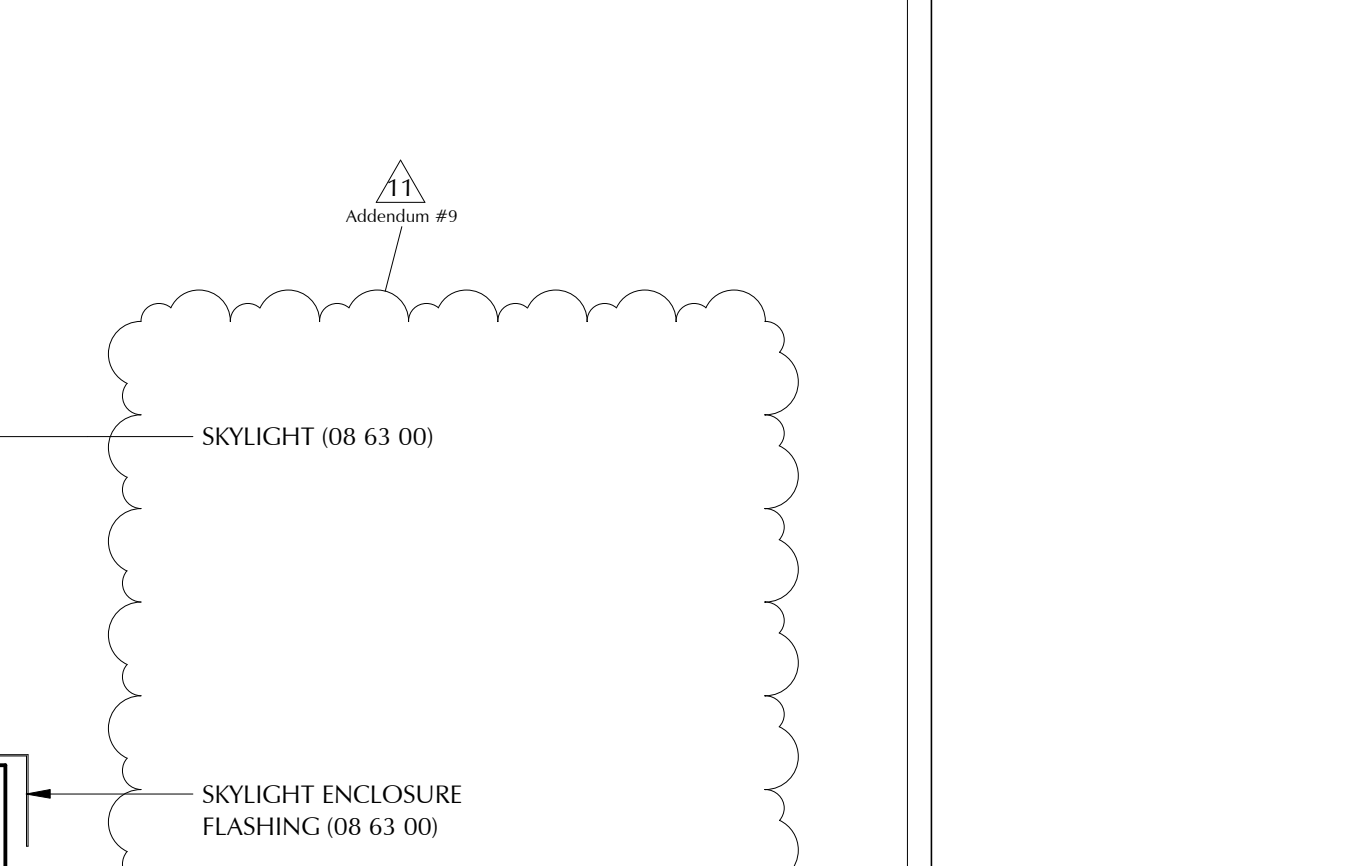
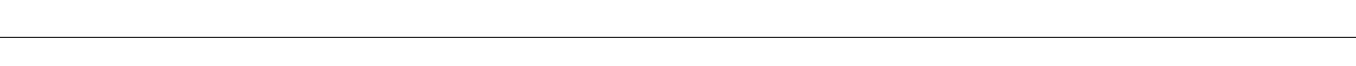
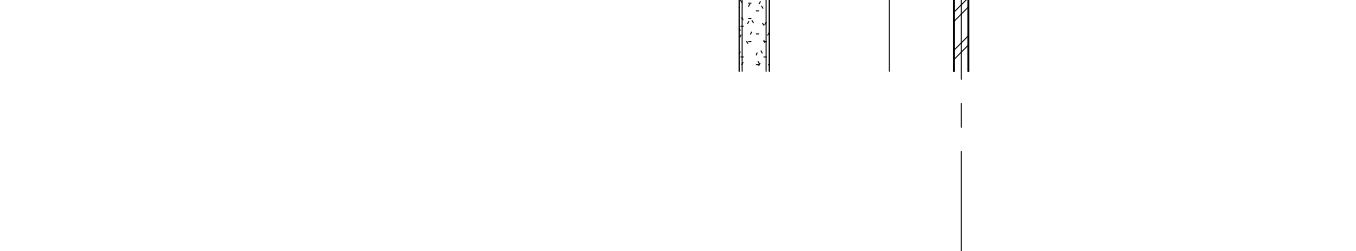
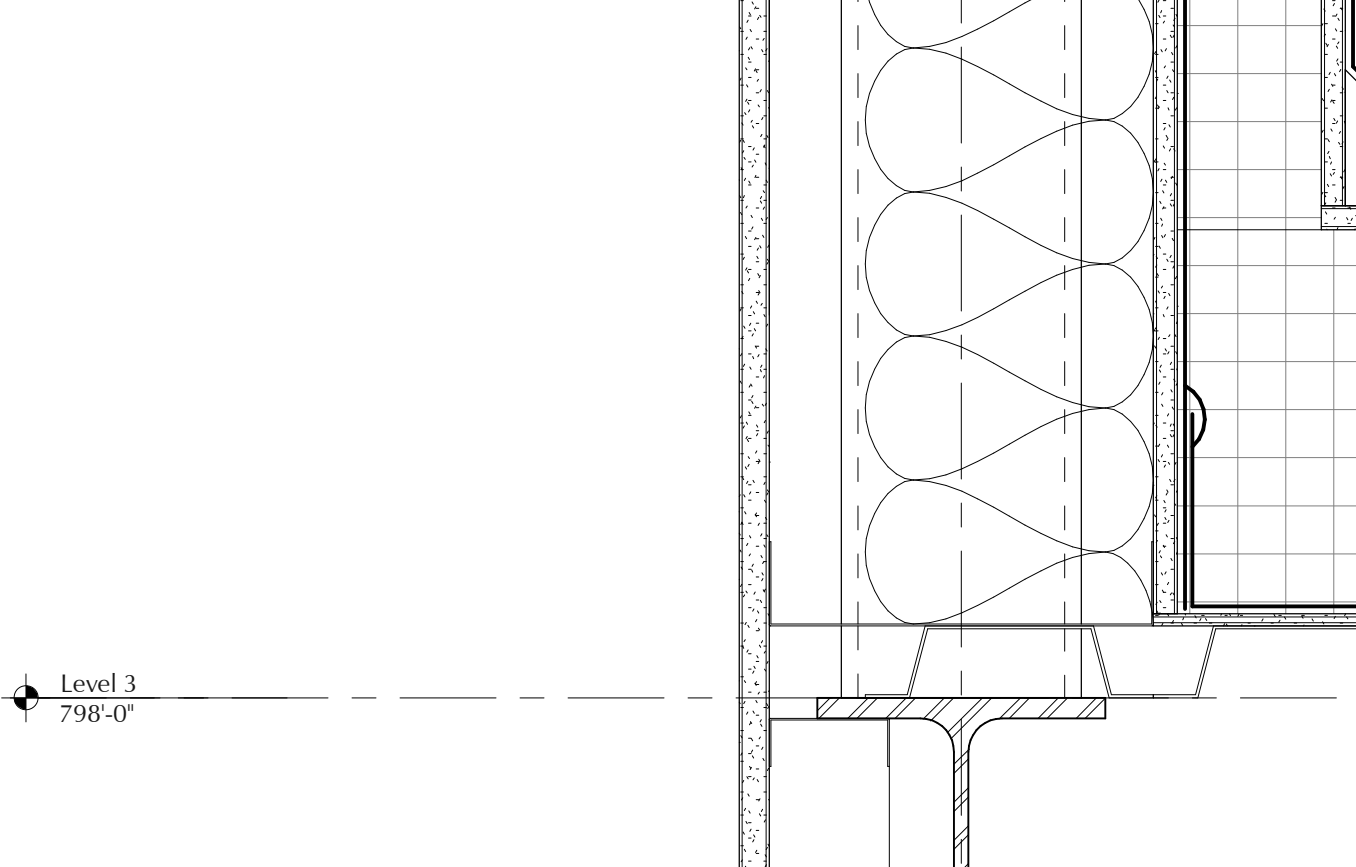
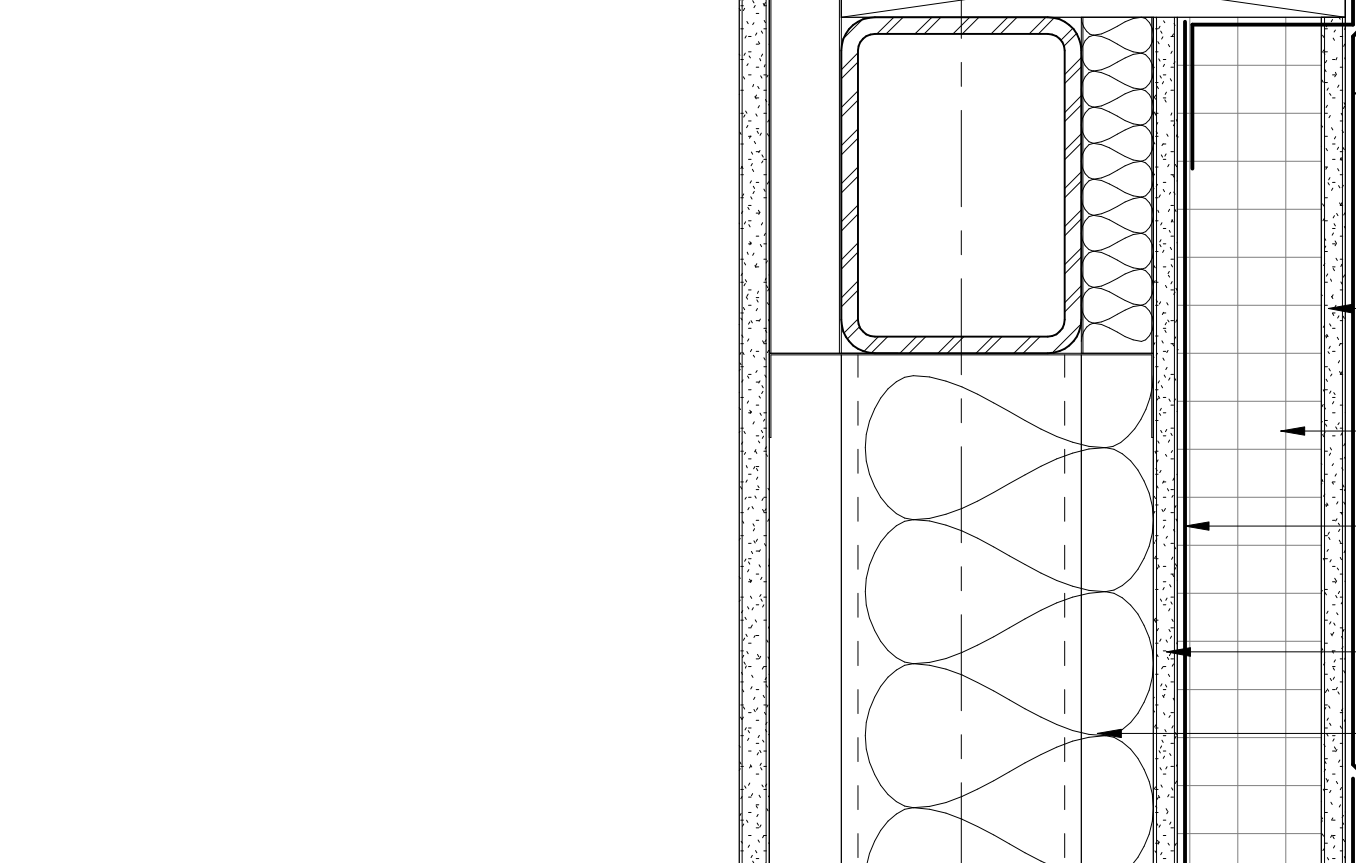
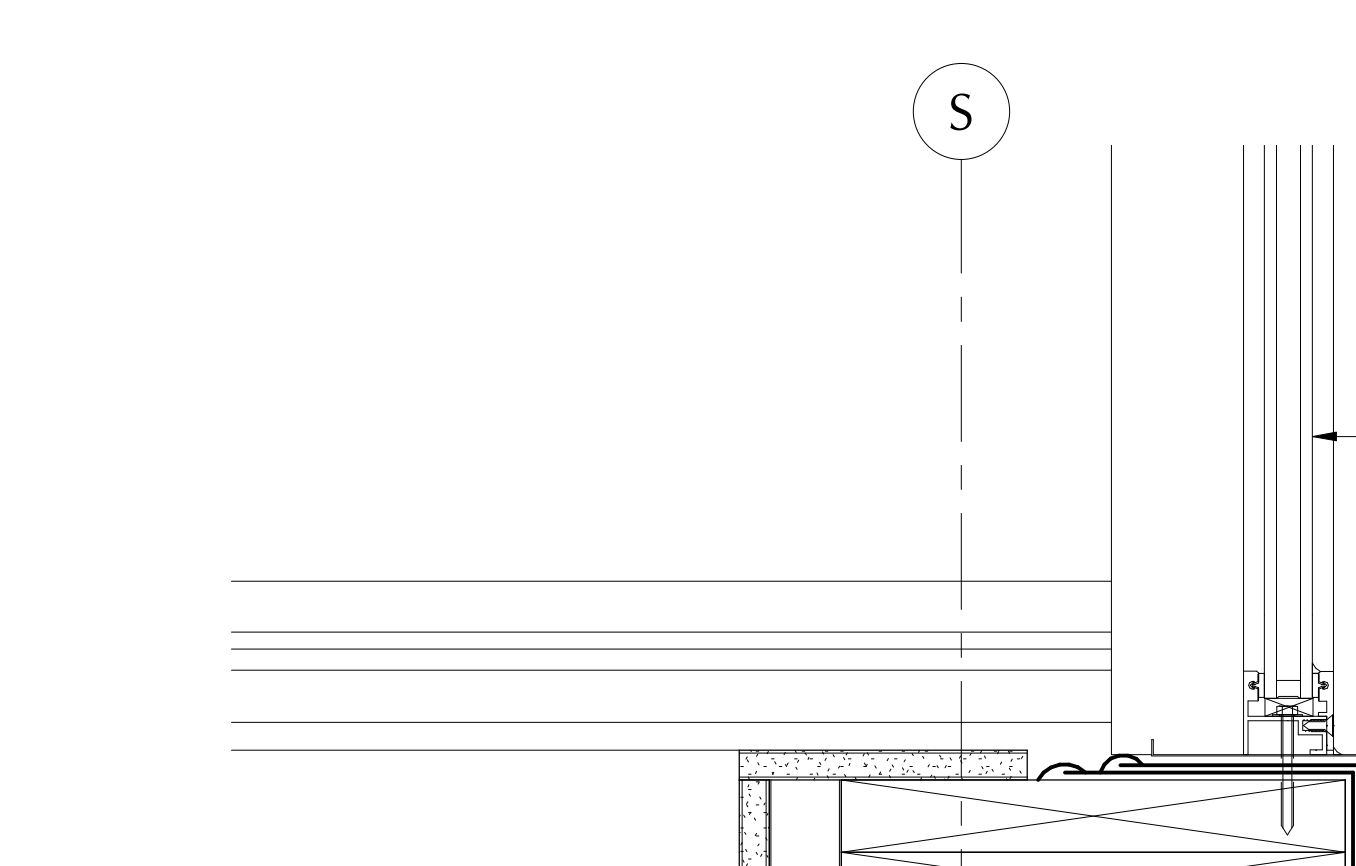
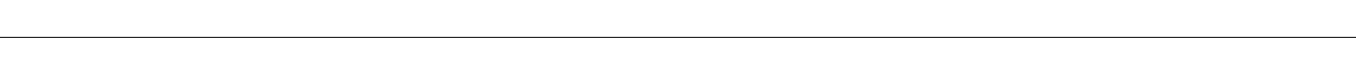
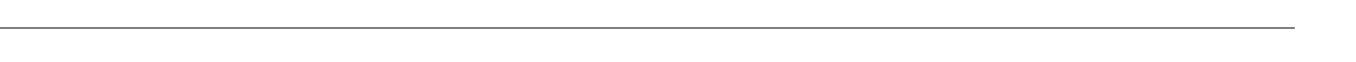
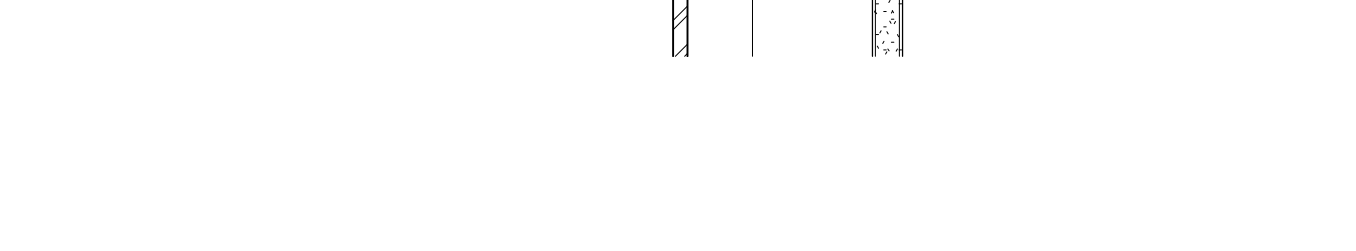
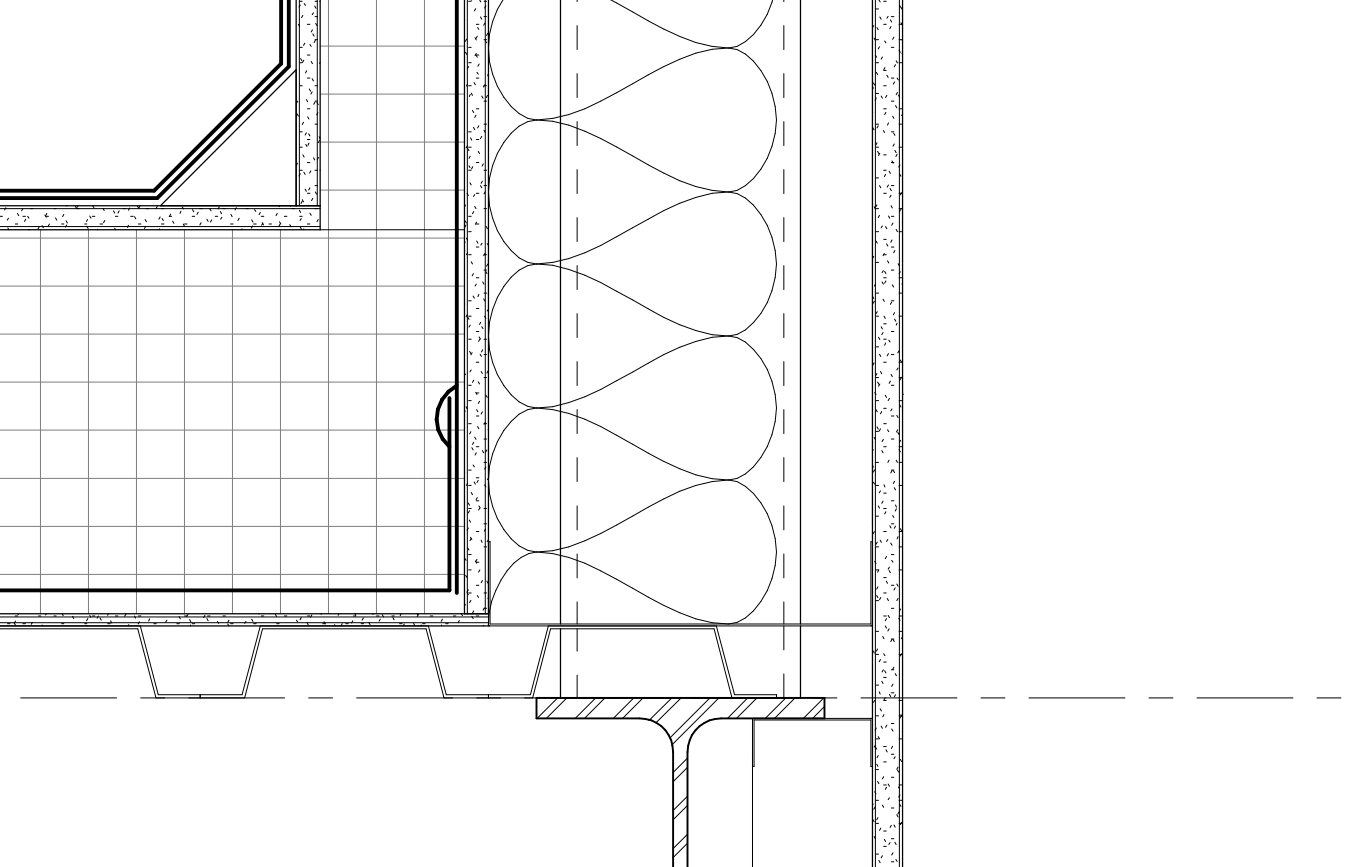
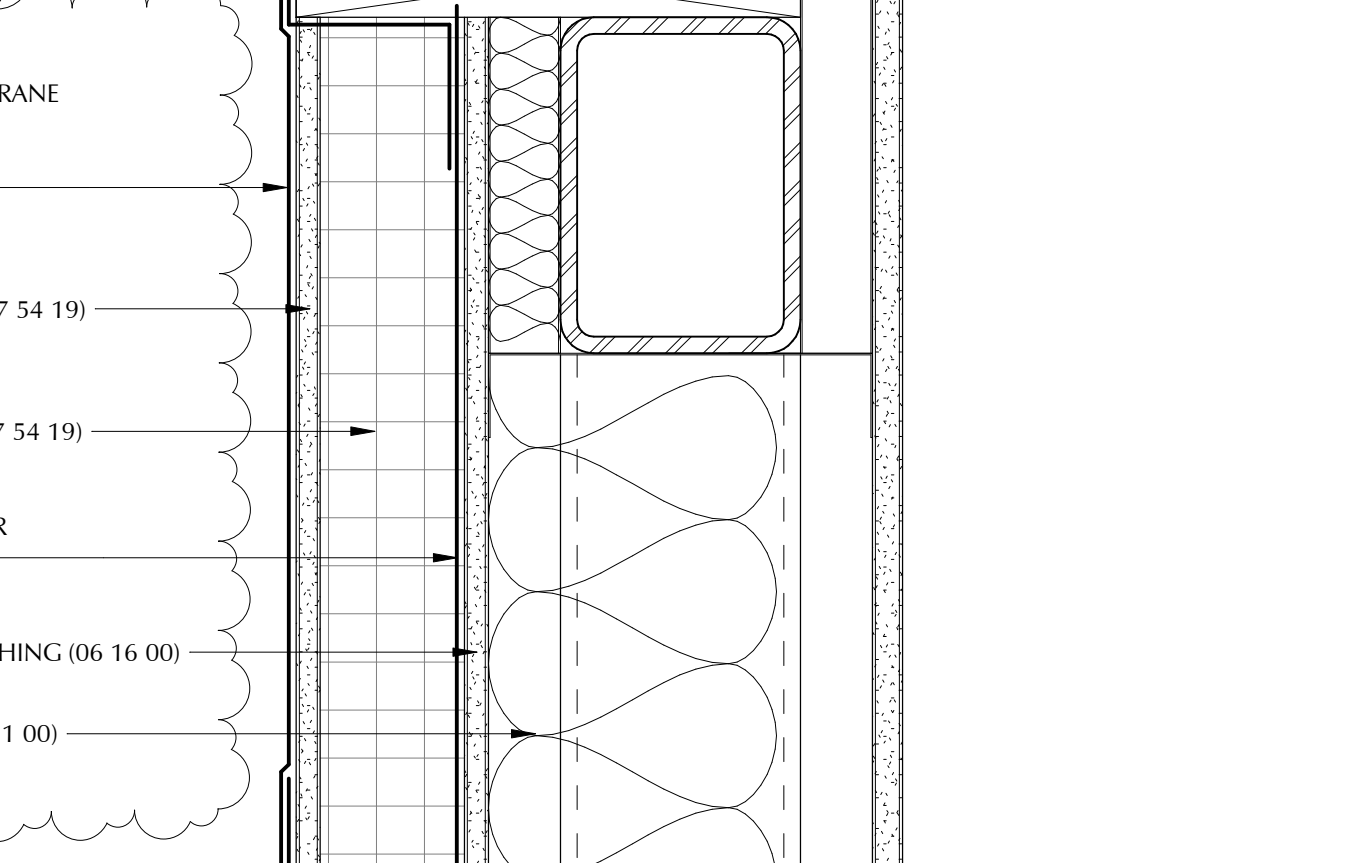
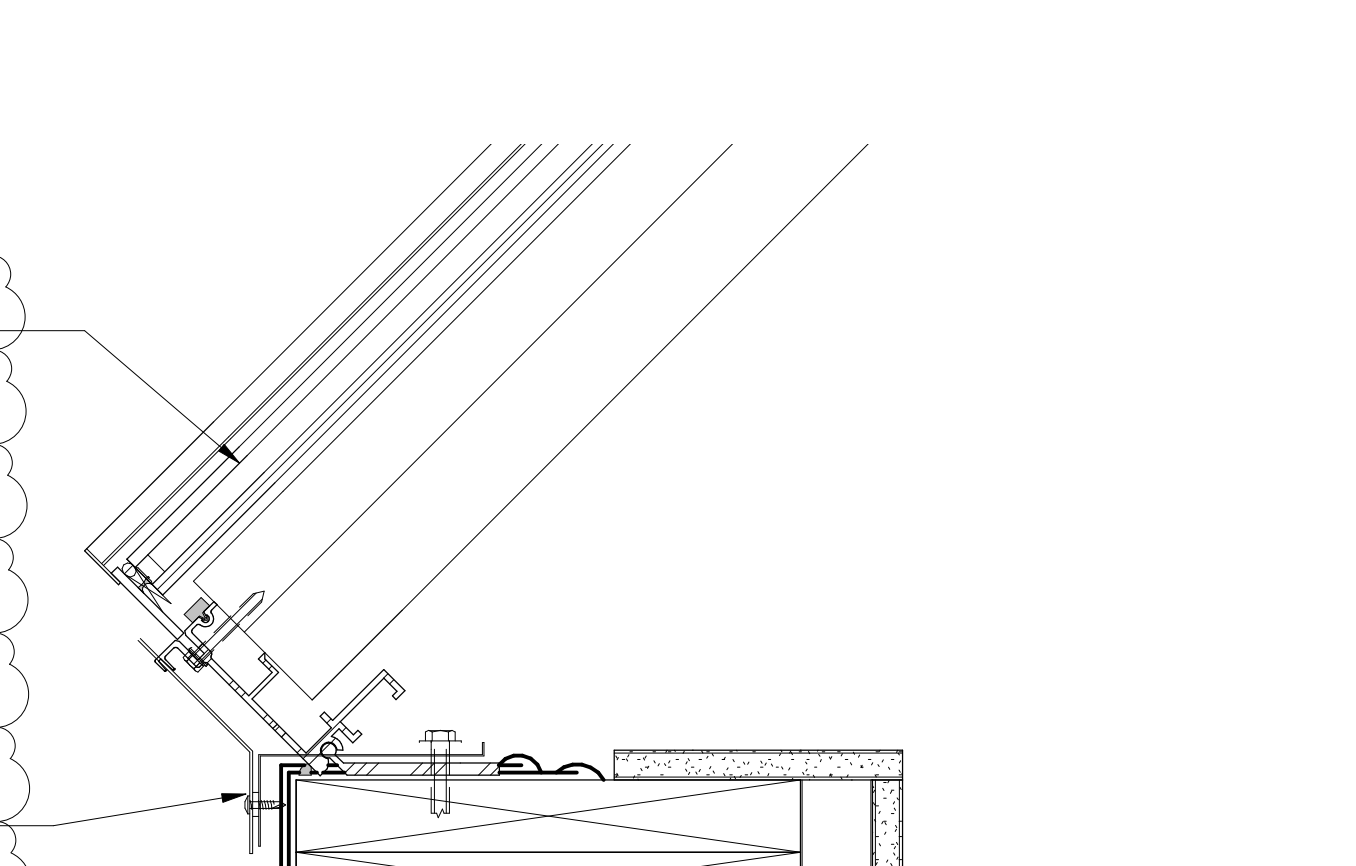
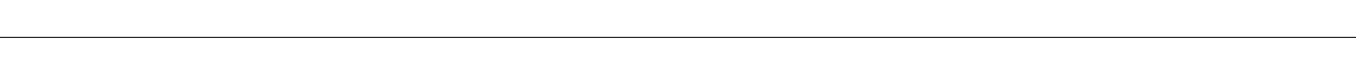
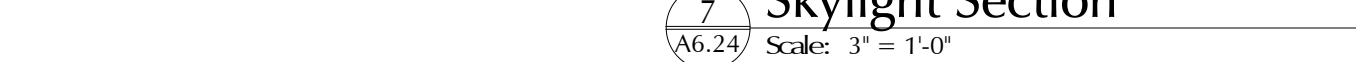
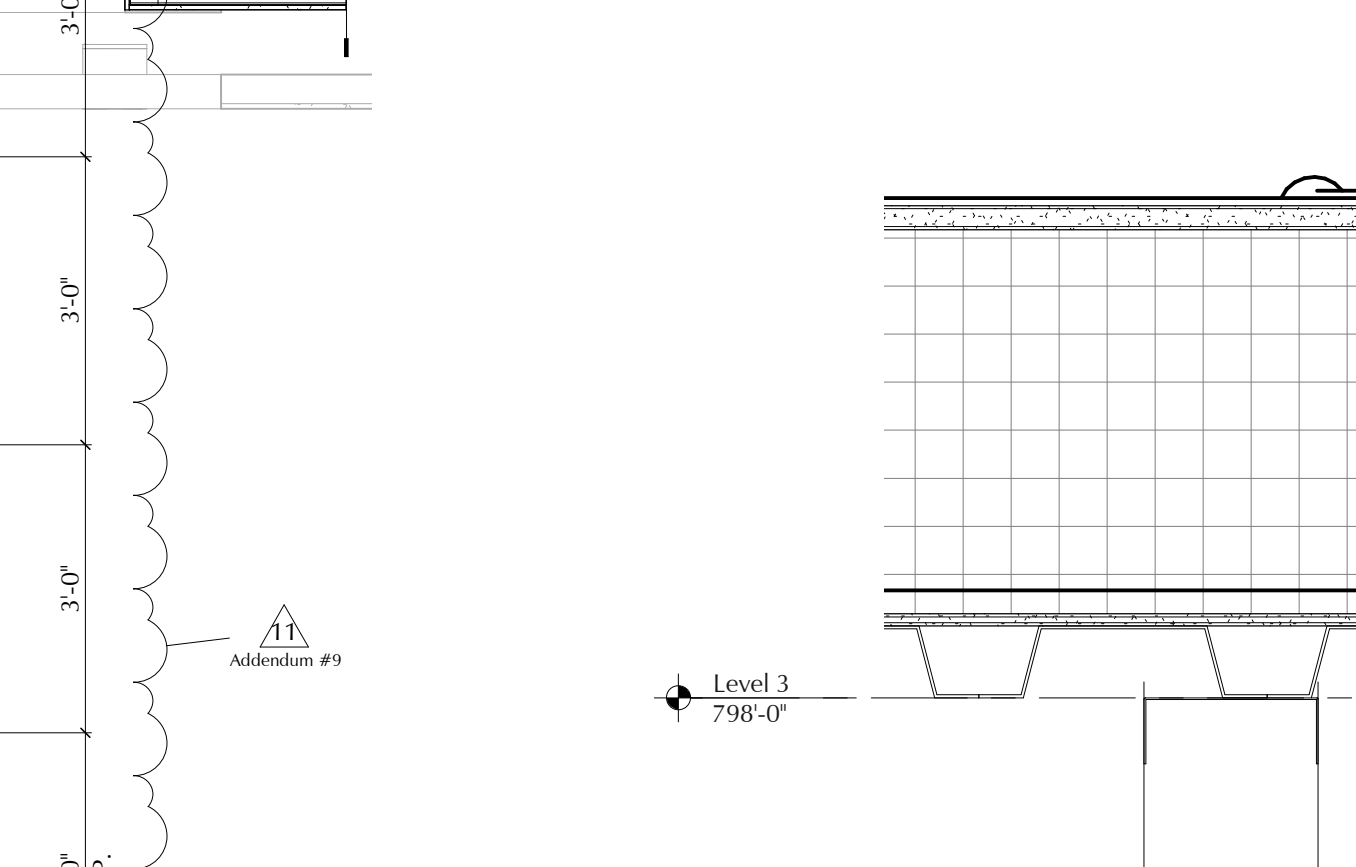
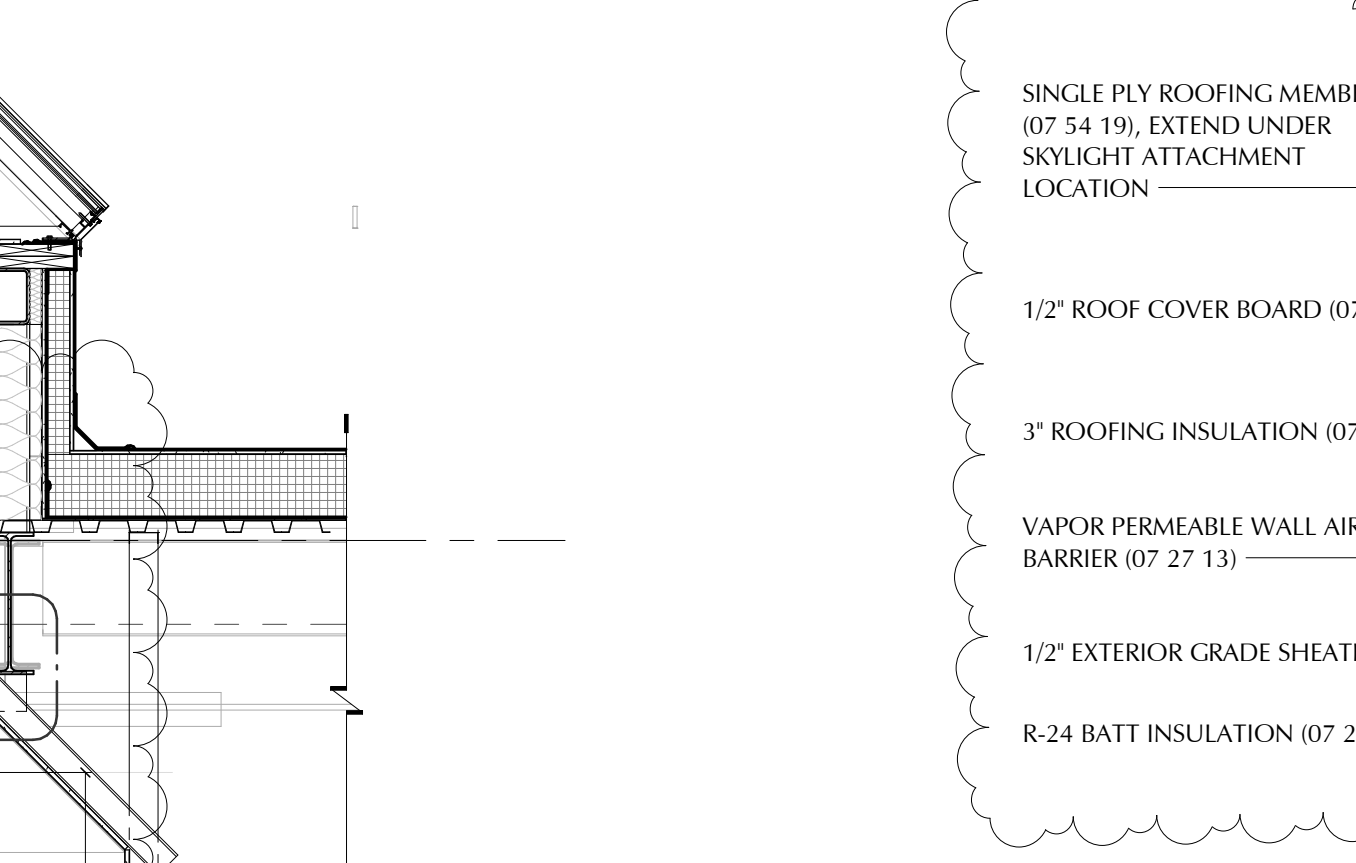
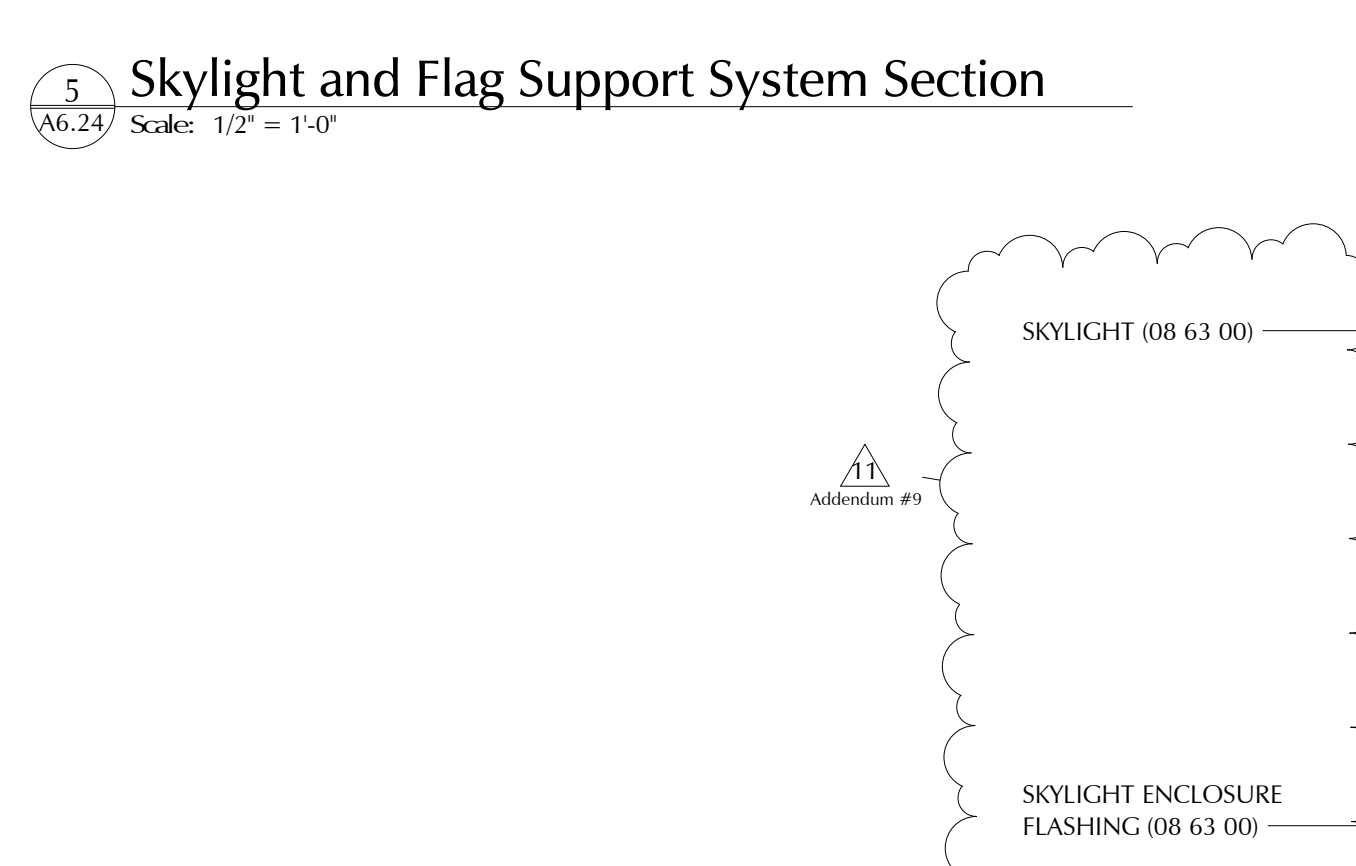
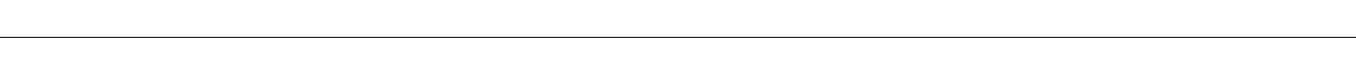
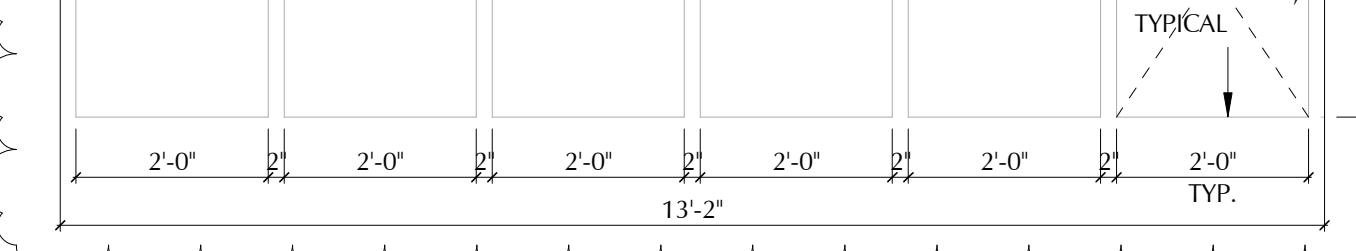
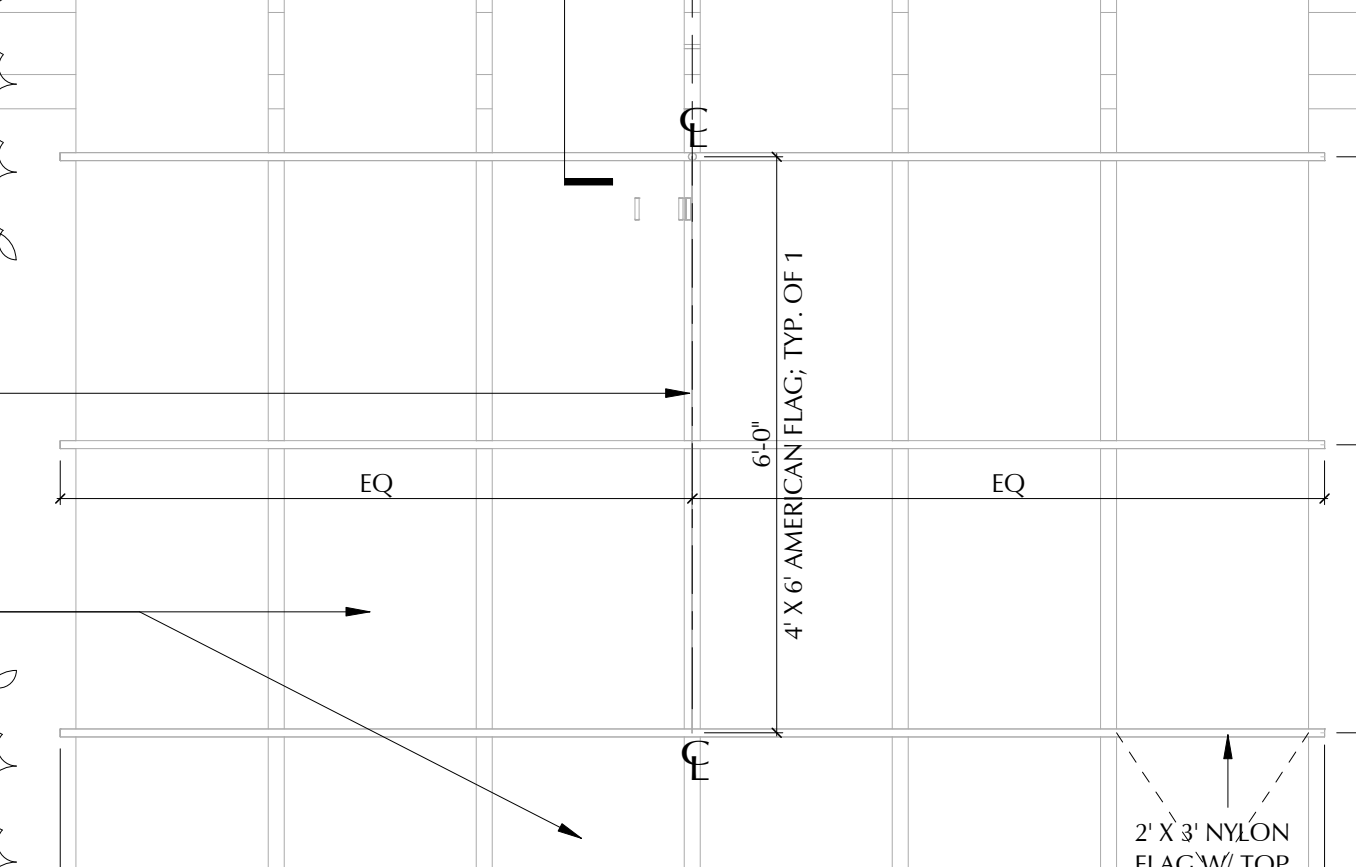
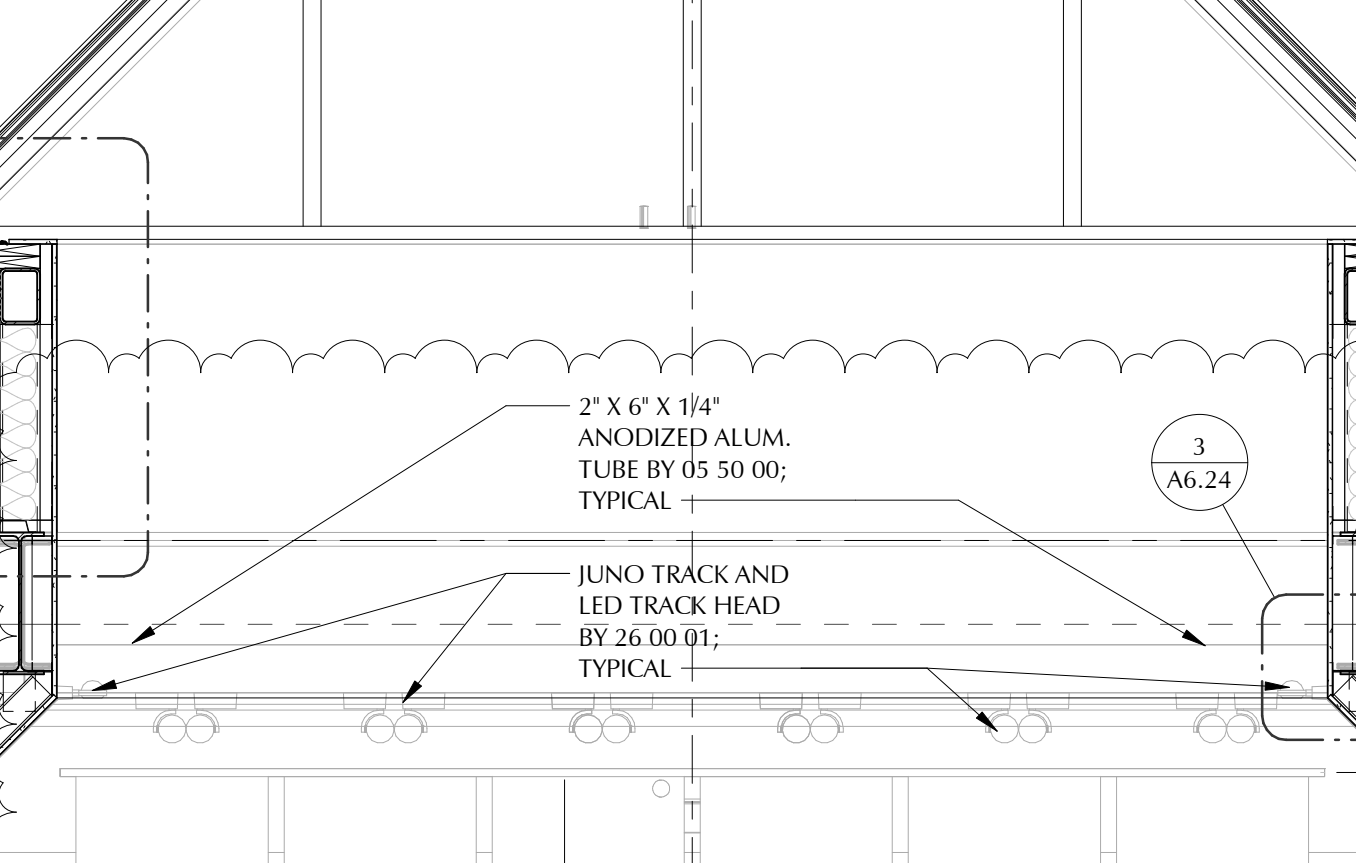
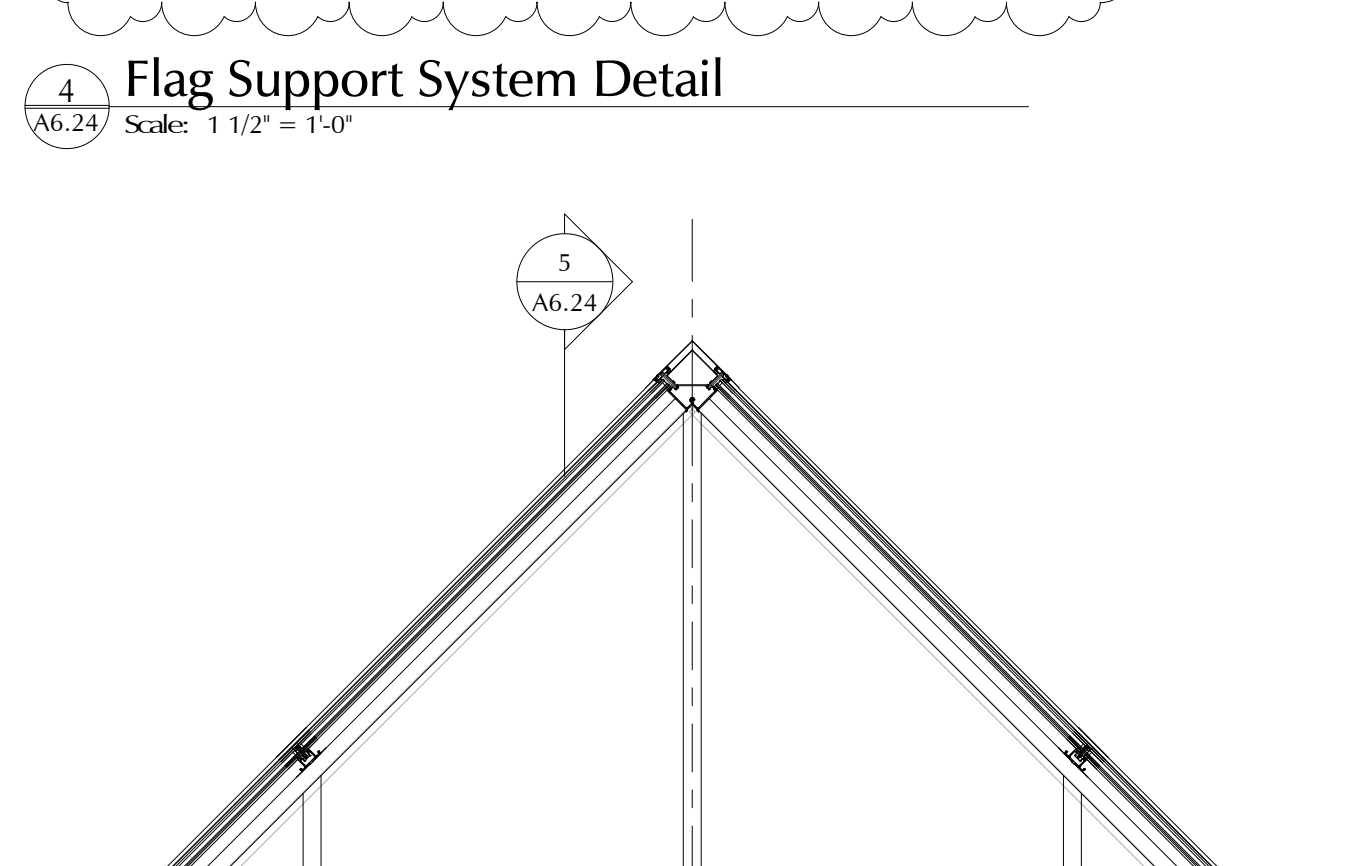
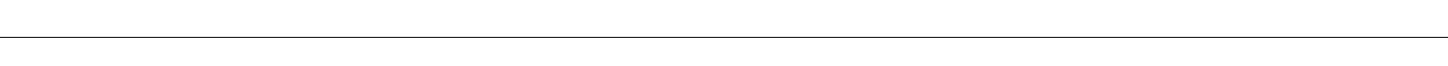
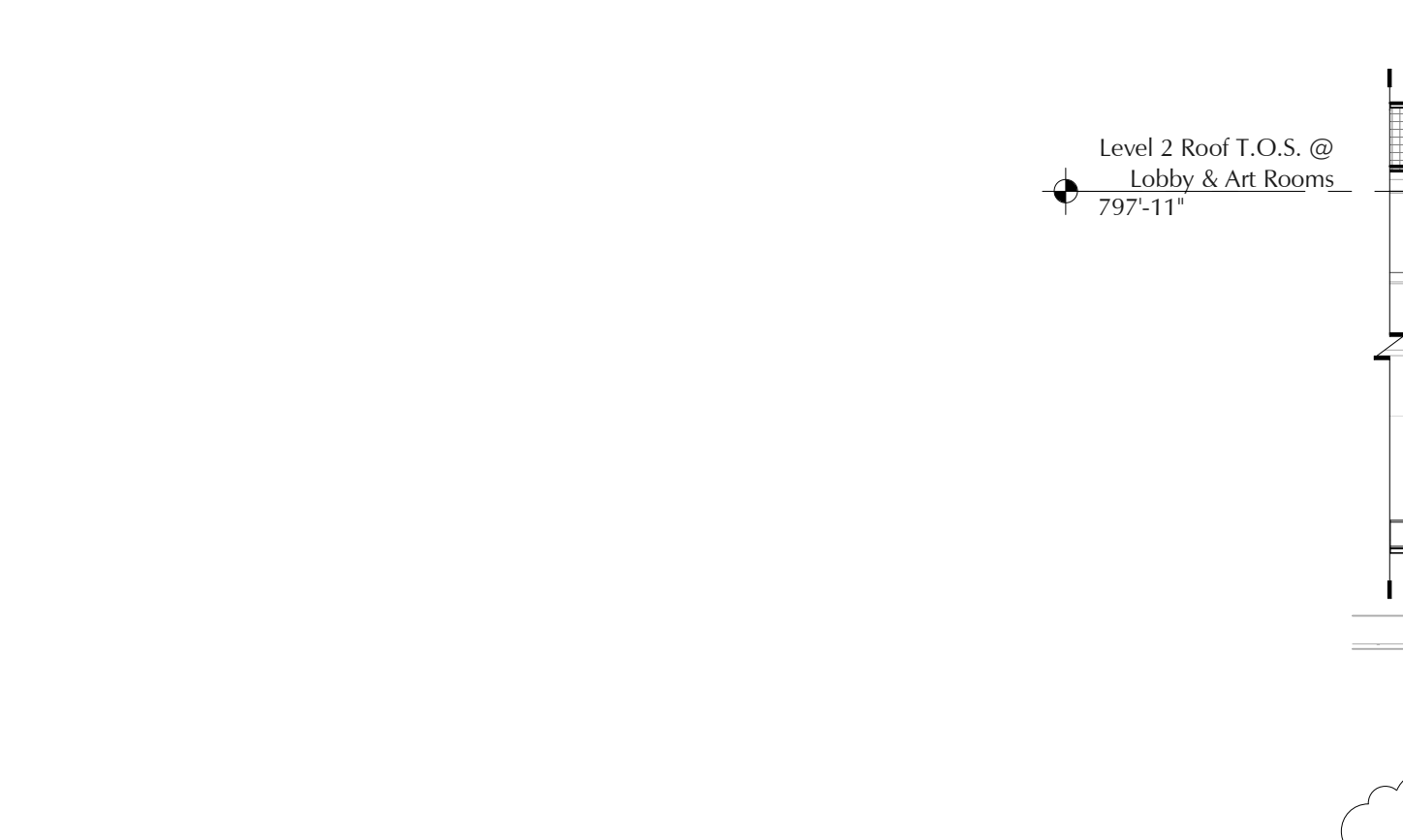
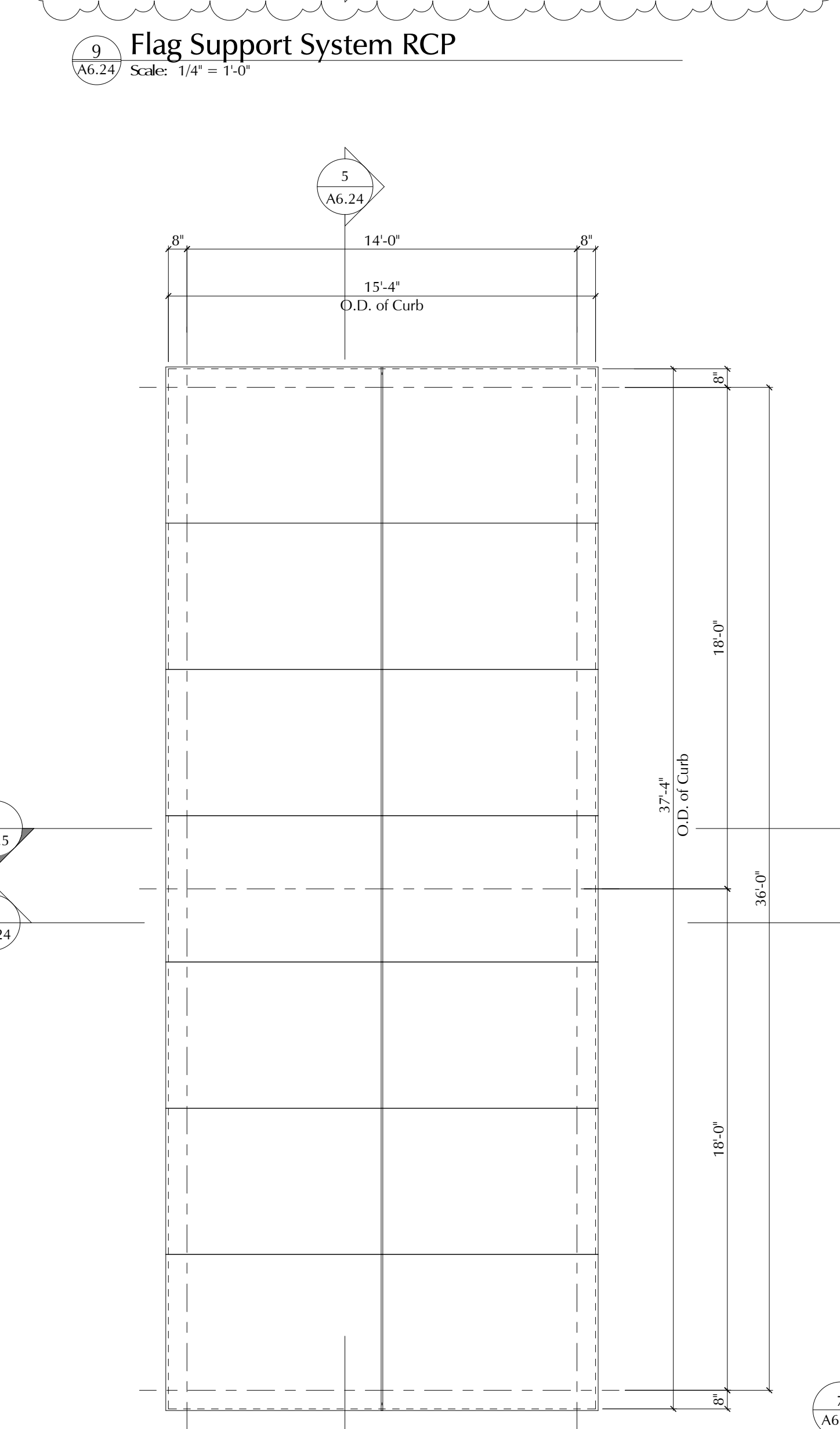
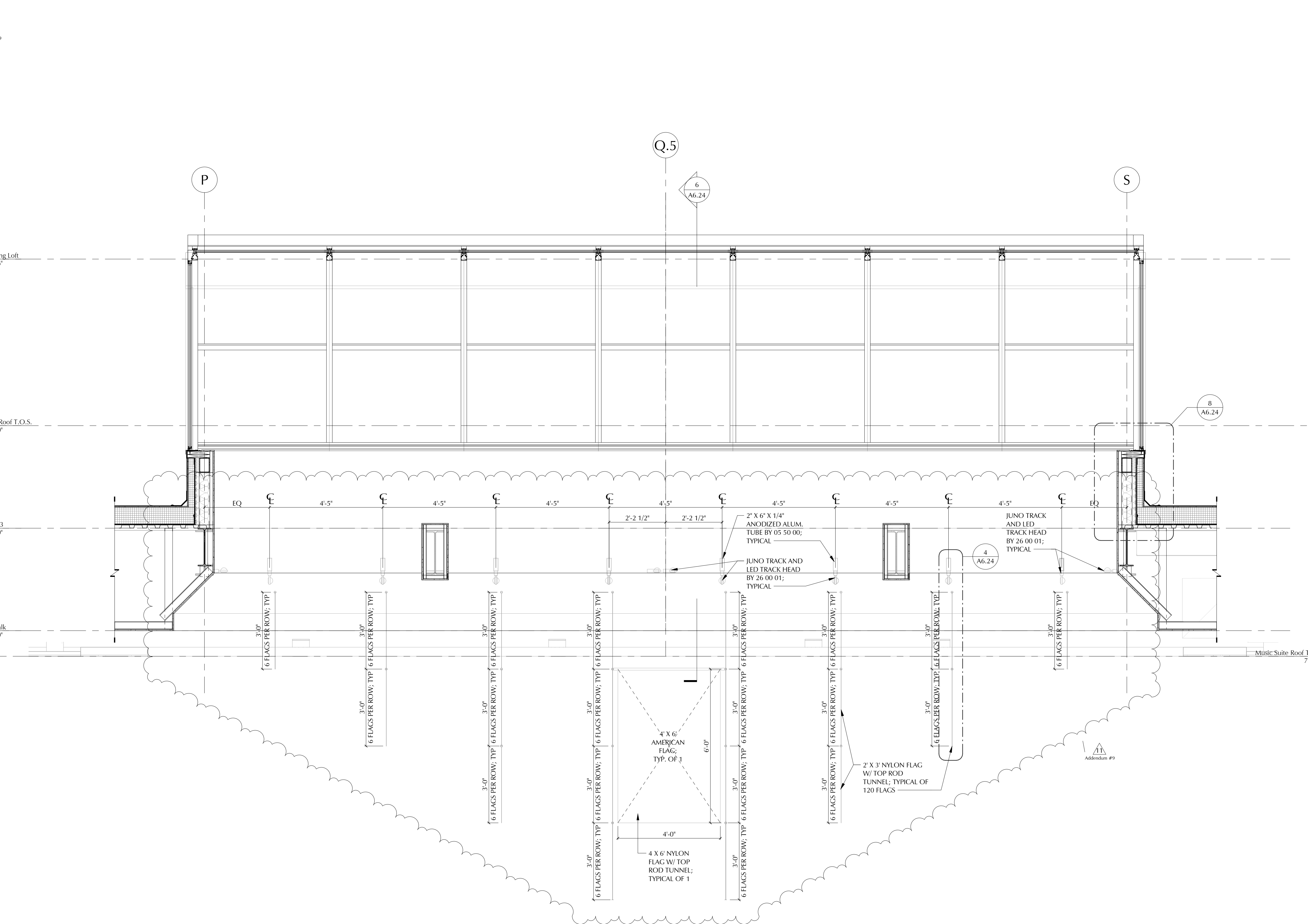
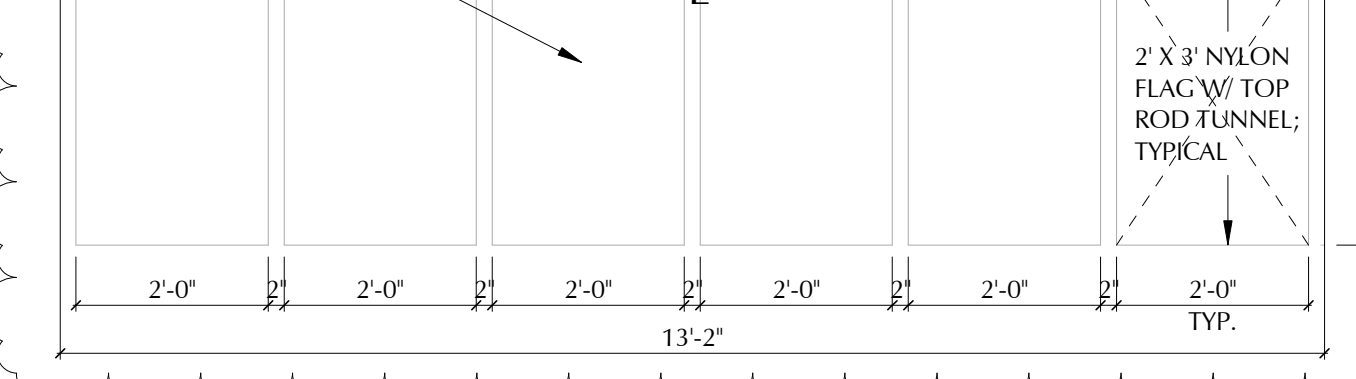
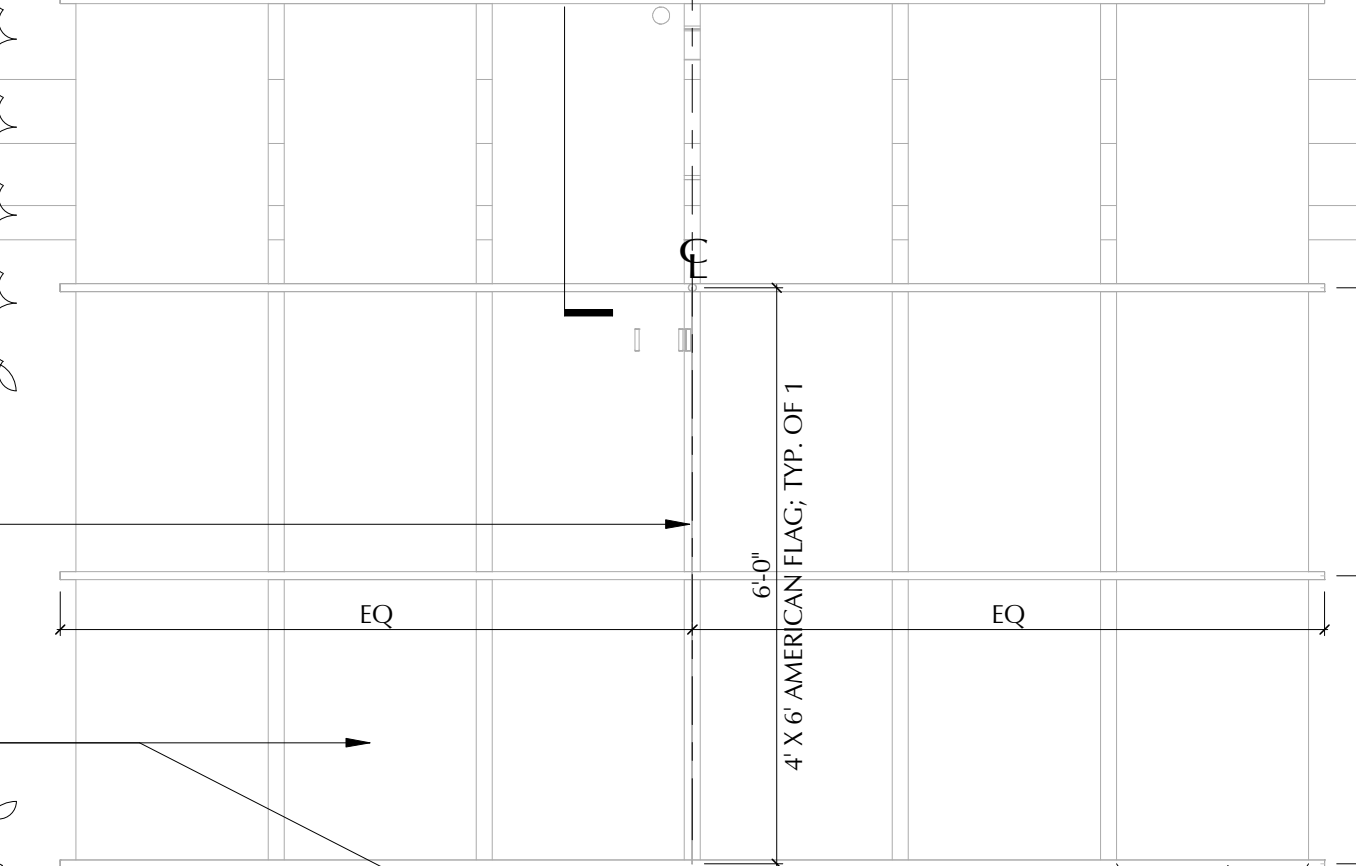
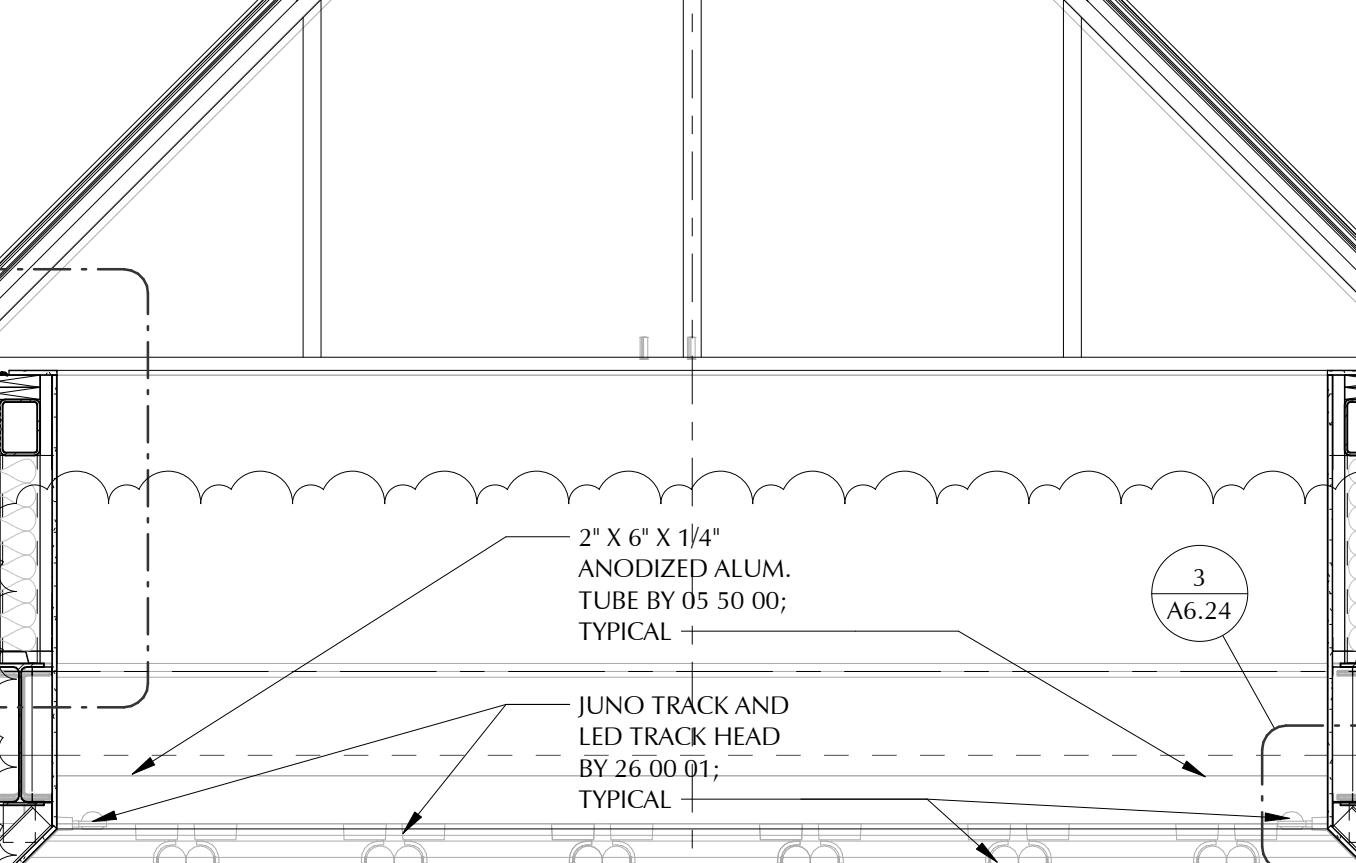
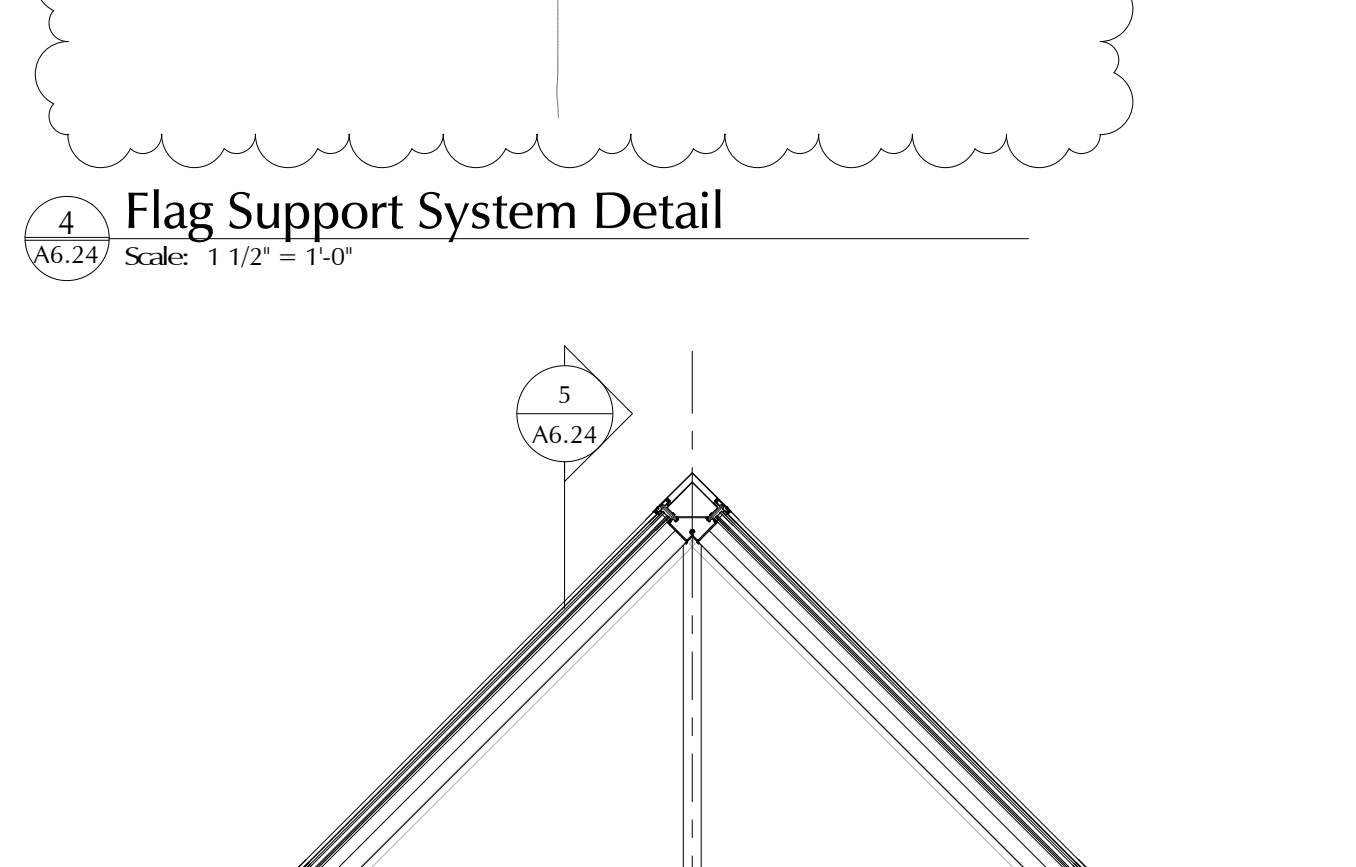
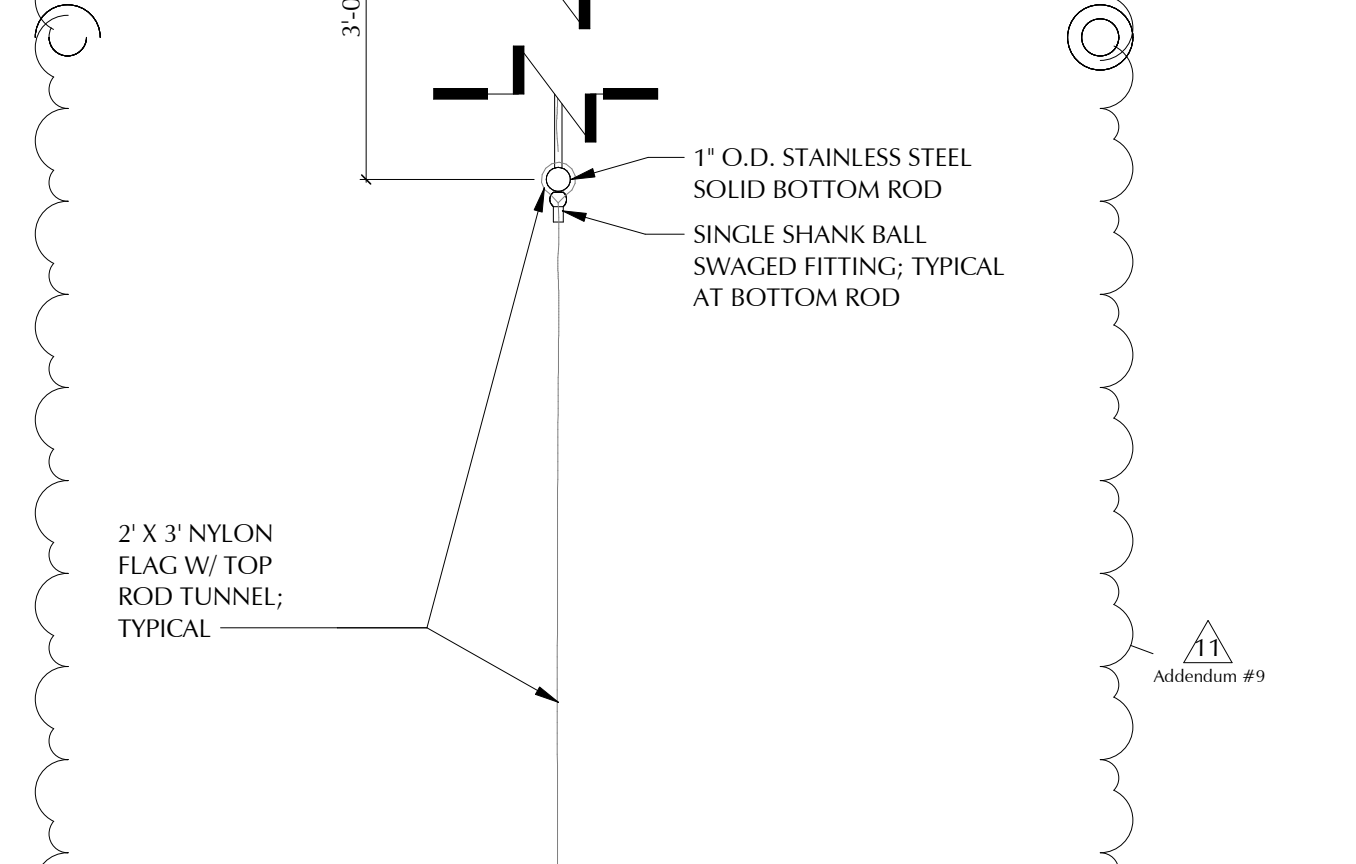
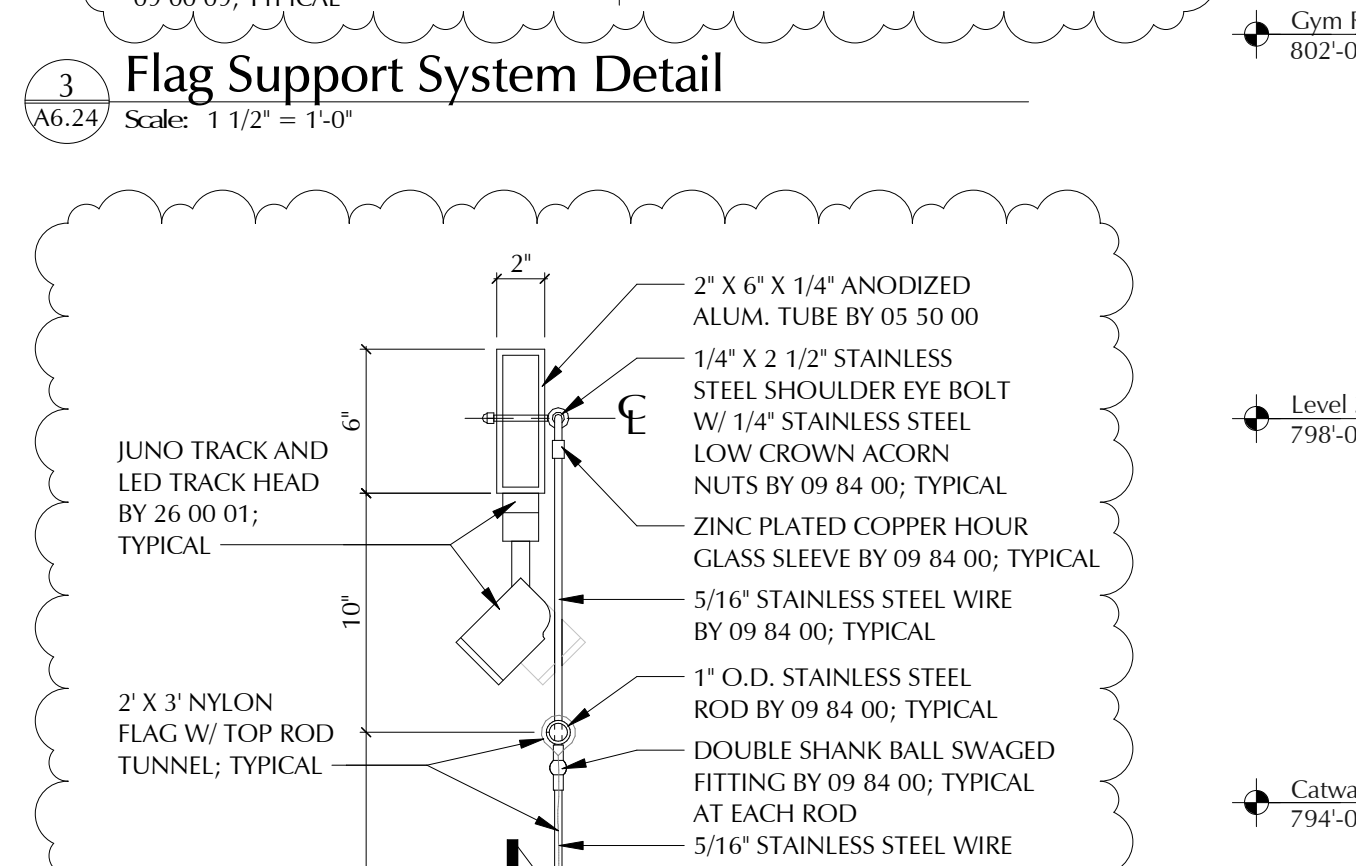
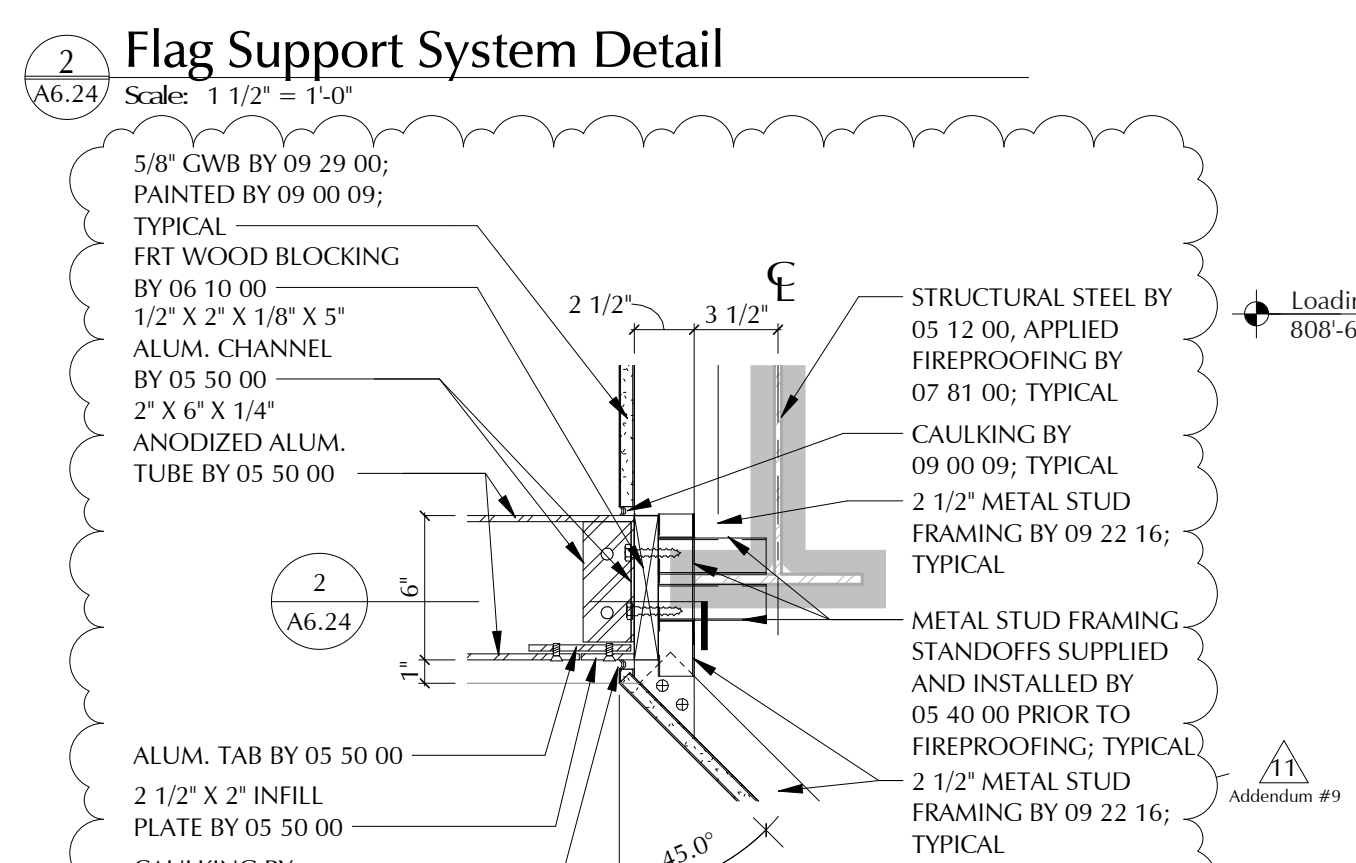
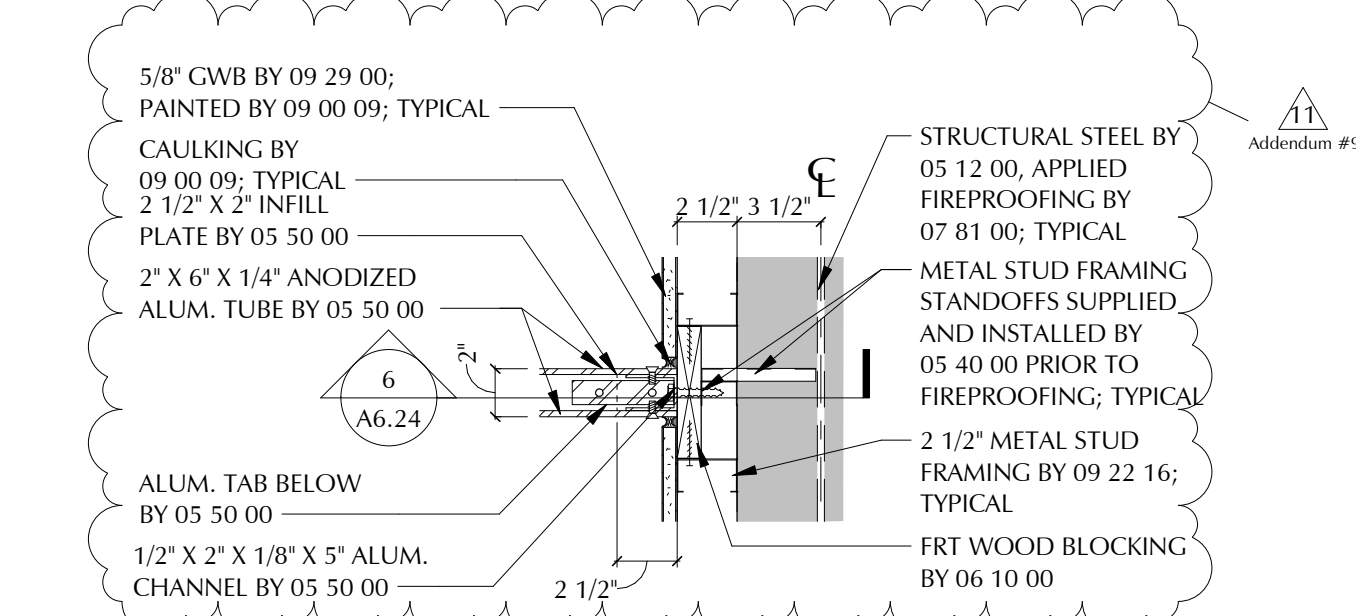
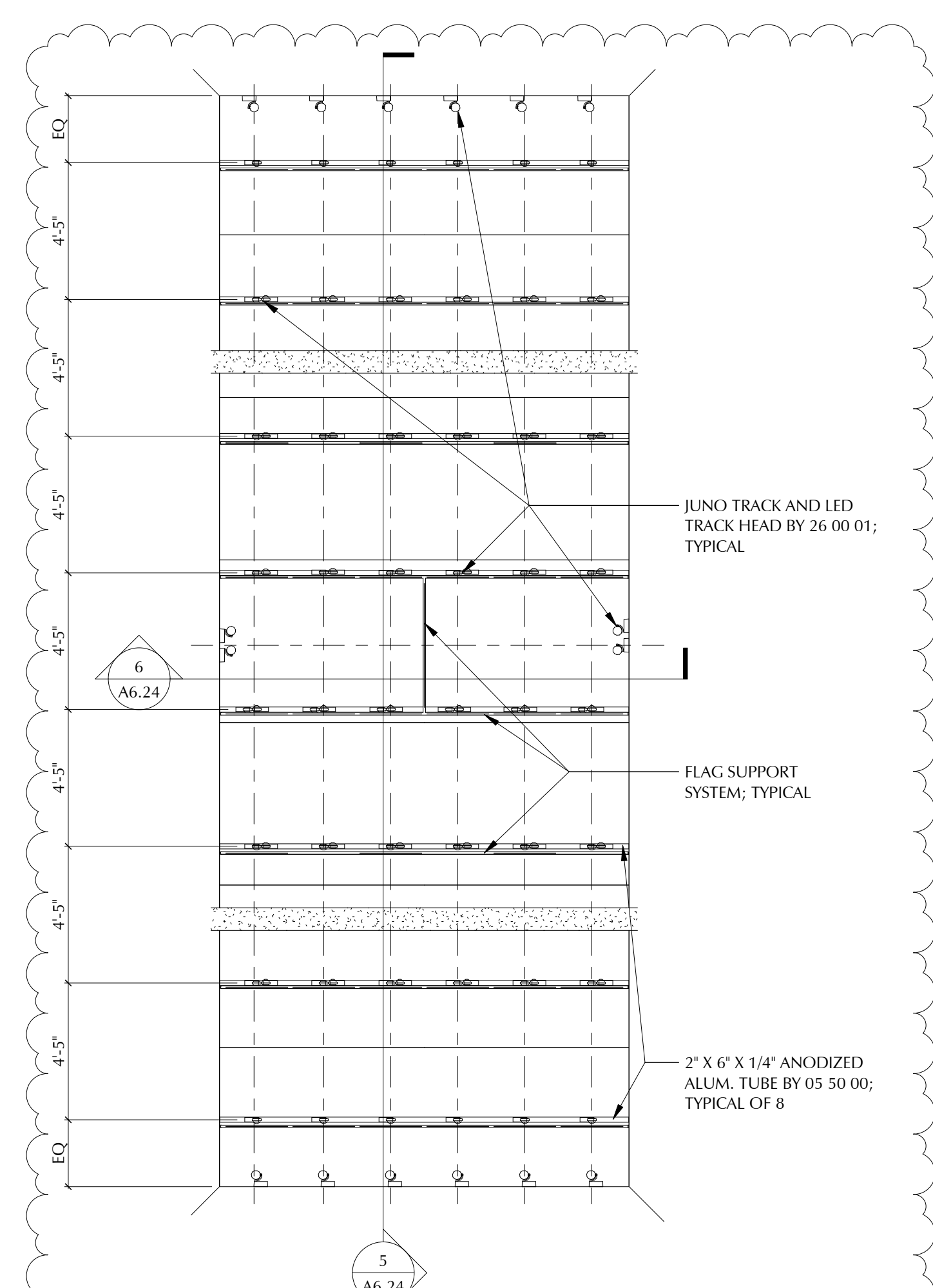
DWN. BY: ER	JOB NO: #167
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CKD BY: JEG	SCALE: 1"
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DATE: August 3, 2018

PH-3A

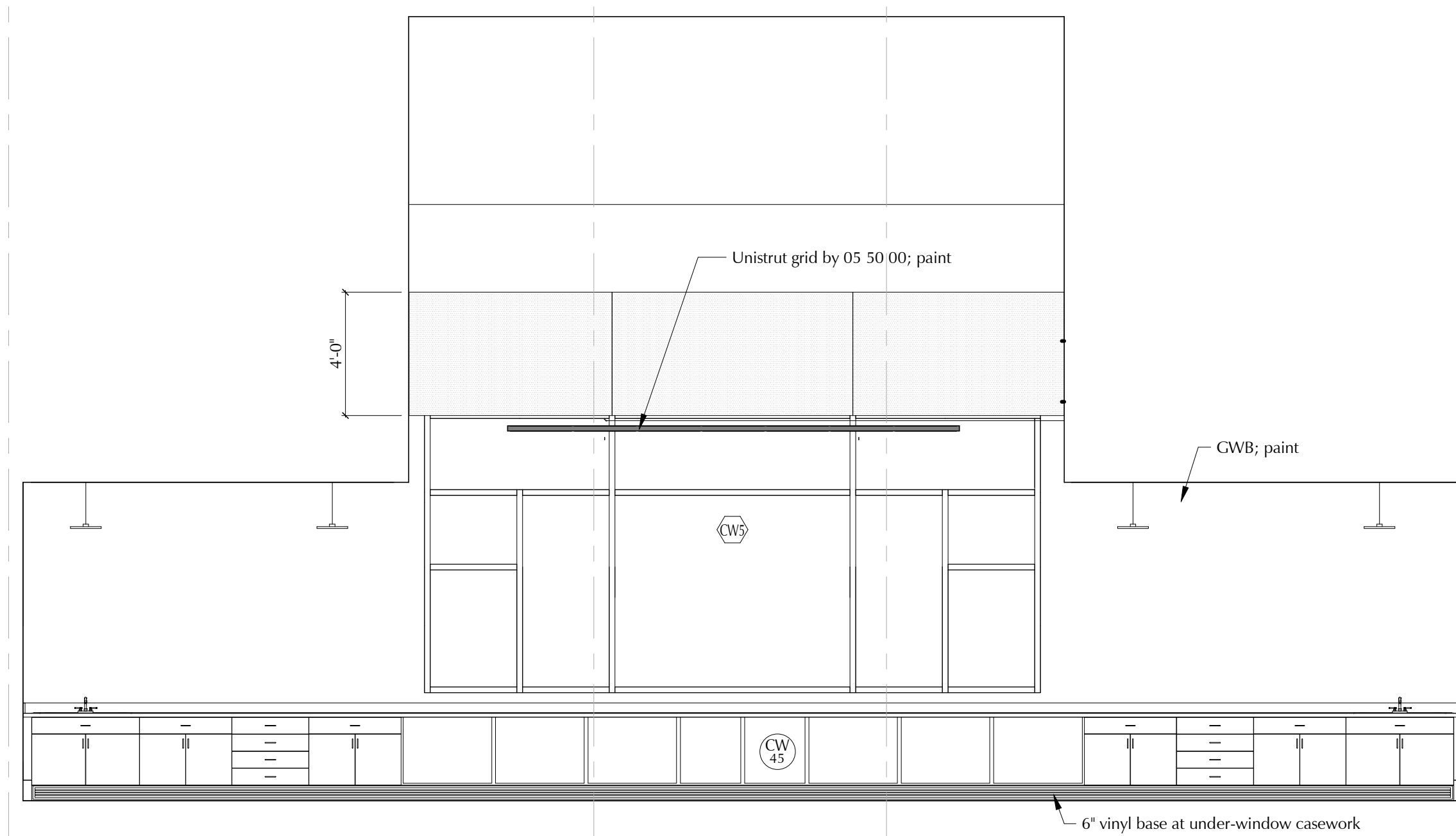




37

36.4

36



14 Art B206 South Interior Elevation

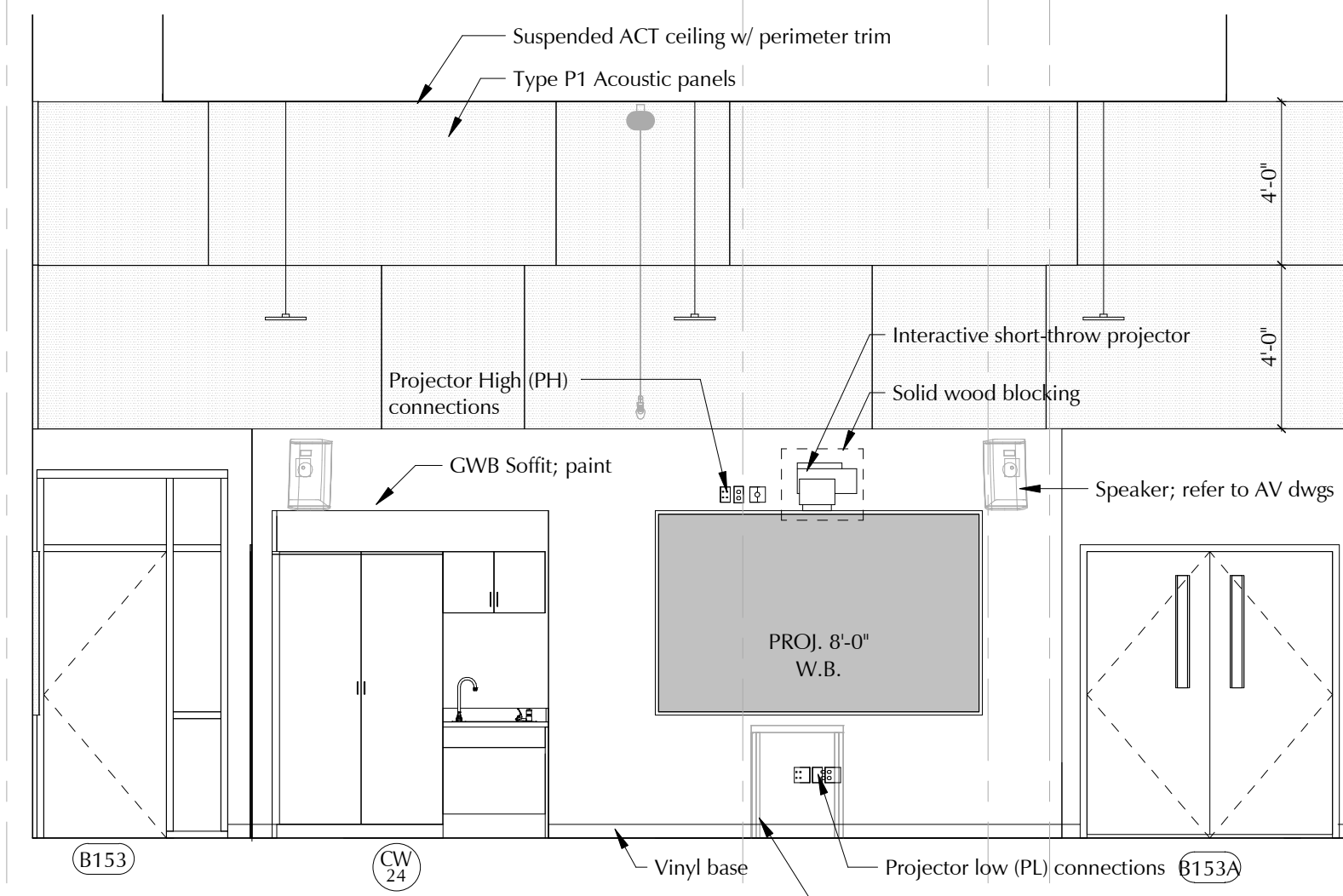
A8.22 Scale: 1/4" = 1'-0"

Similar at Rooms: B204 & B202

30

29

28.28.6



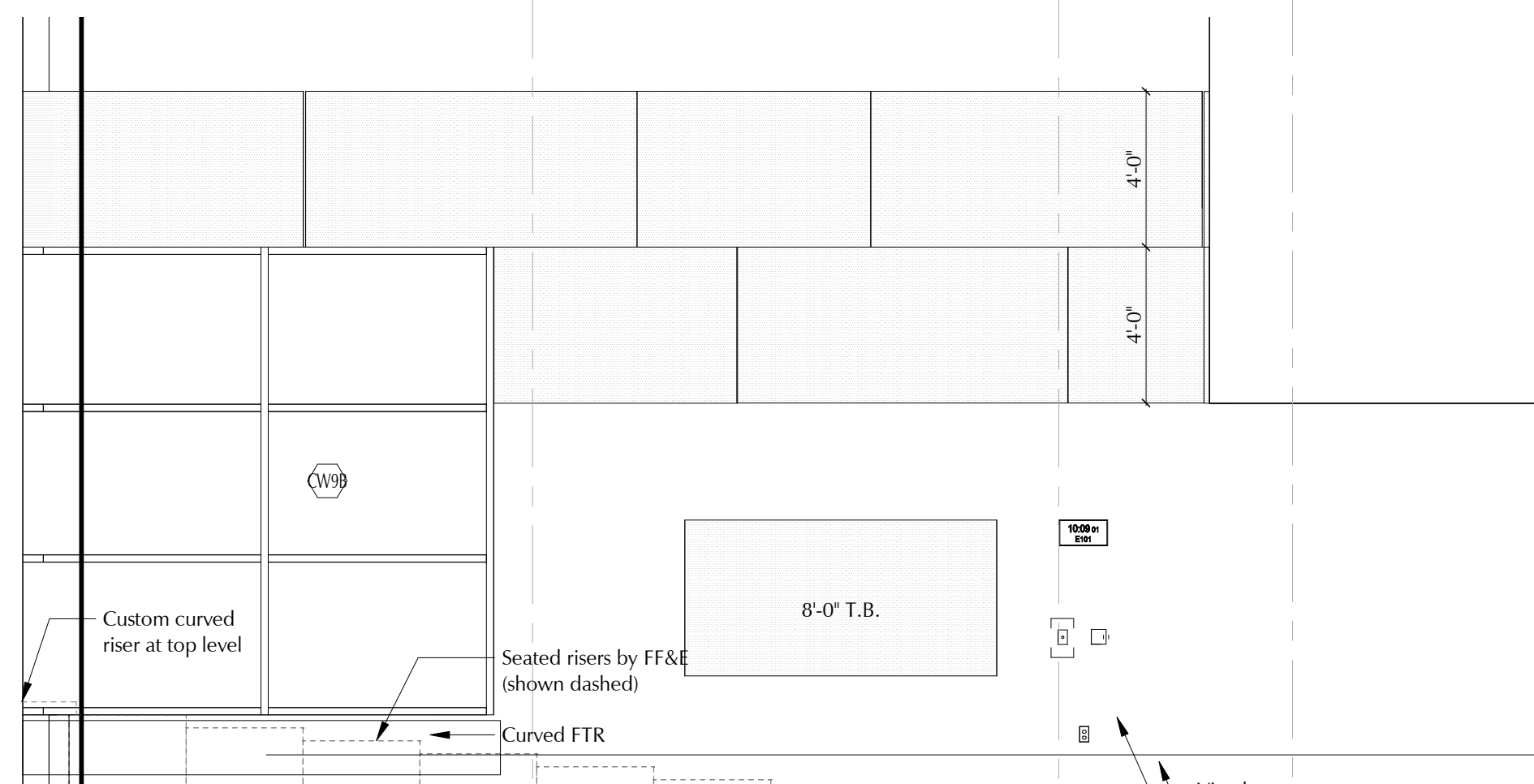
10 Chorus South Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

J

J.7

K



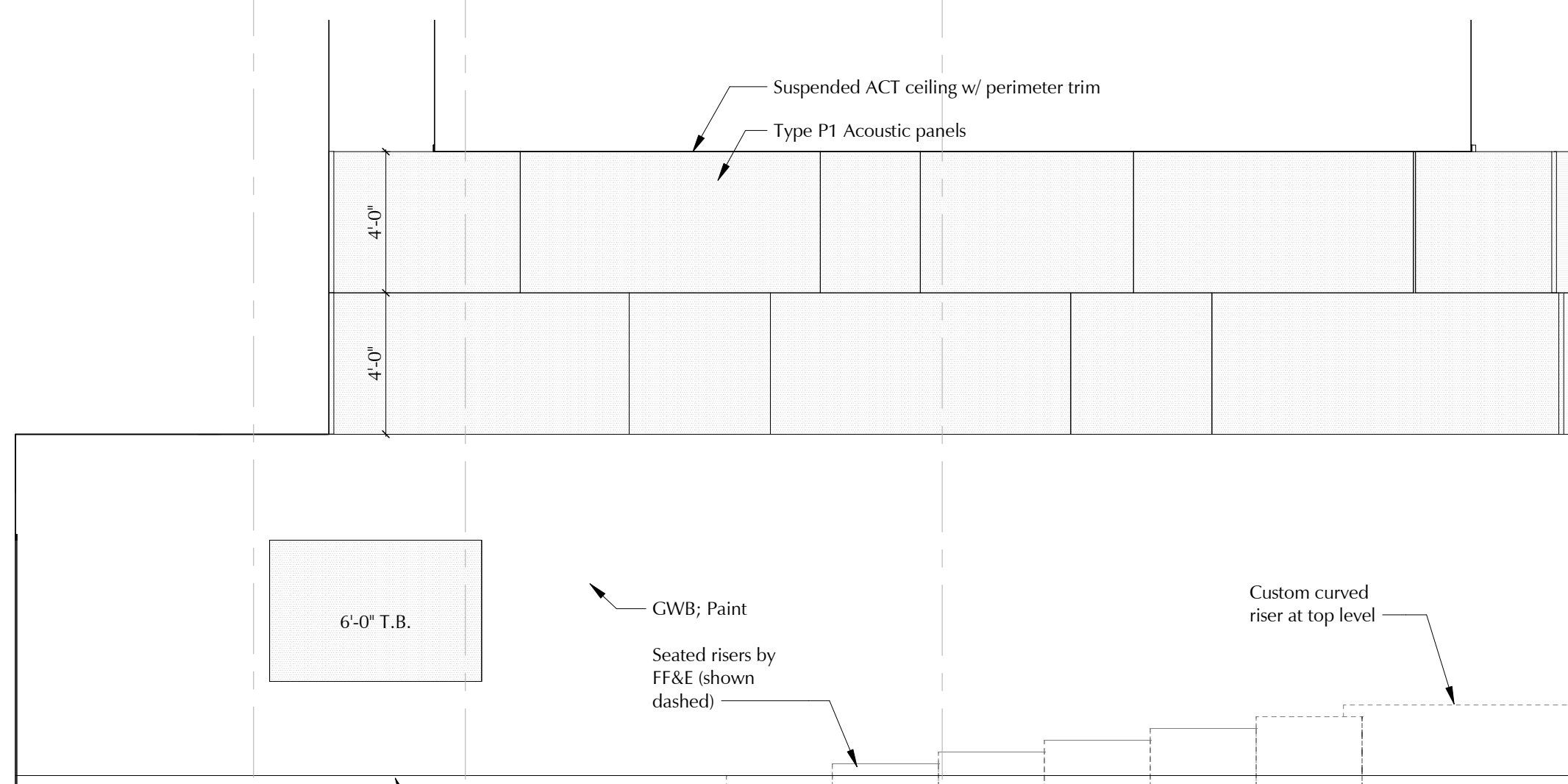
9 Chorus East Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

K

J.7

J



8 Chorus West Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

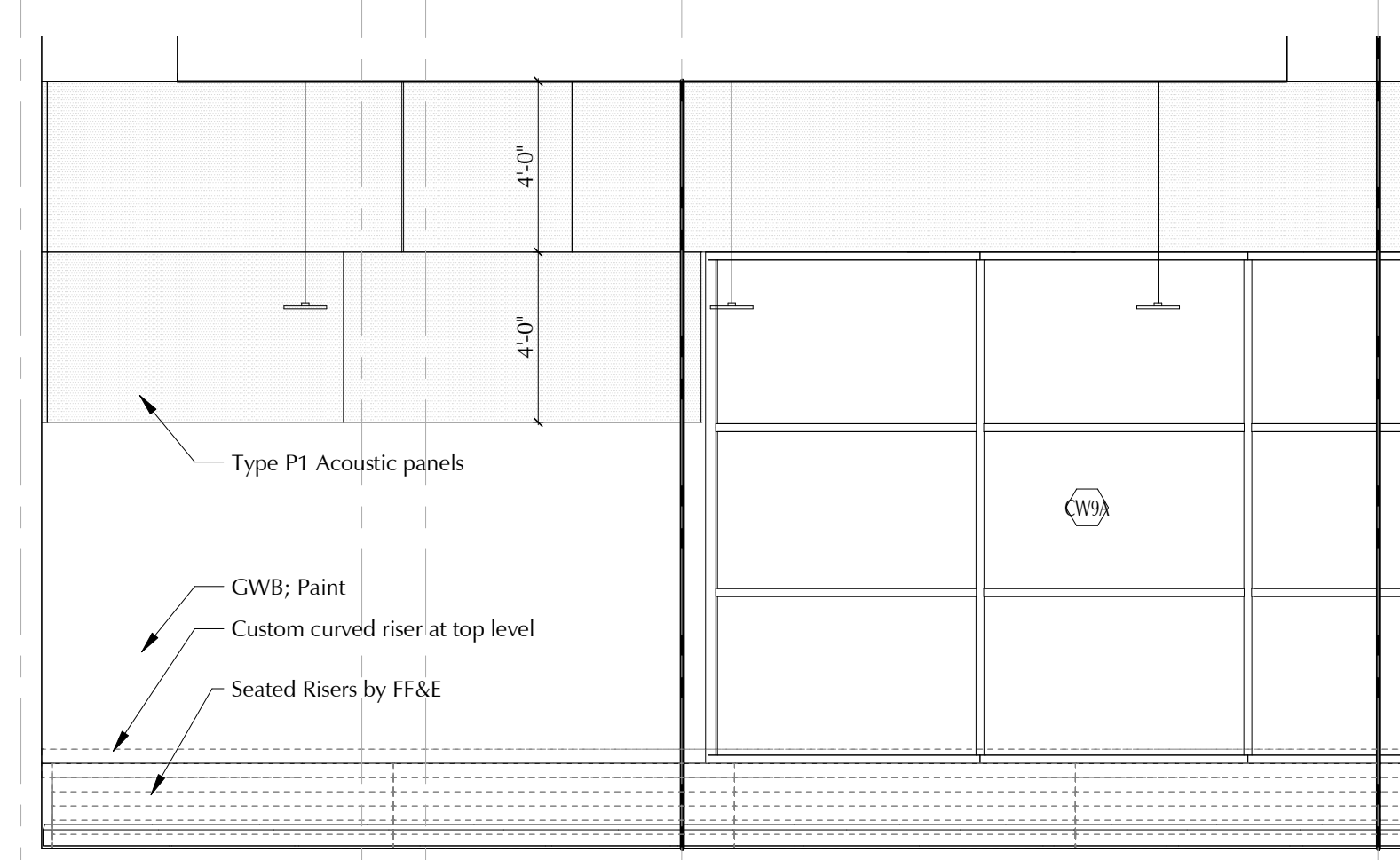
37

28

28.8.7

29

29.9.30



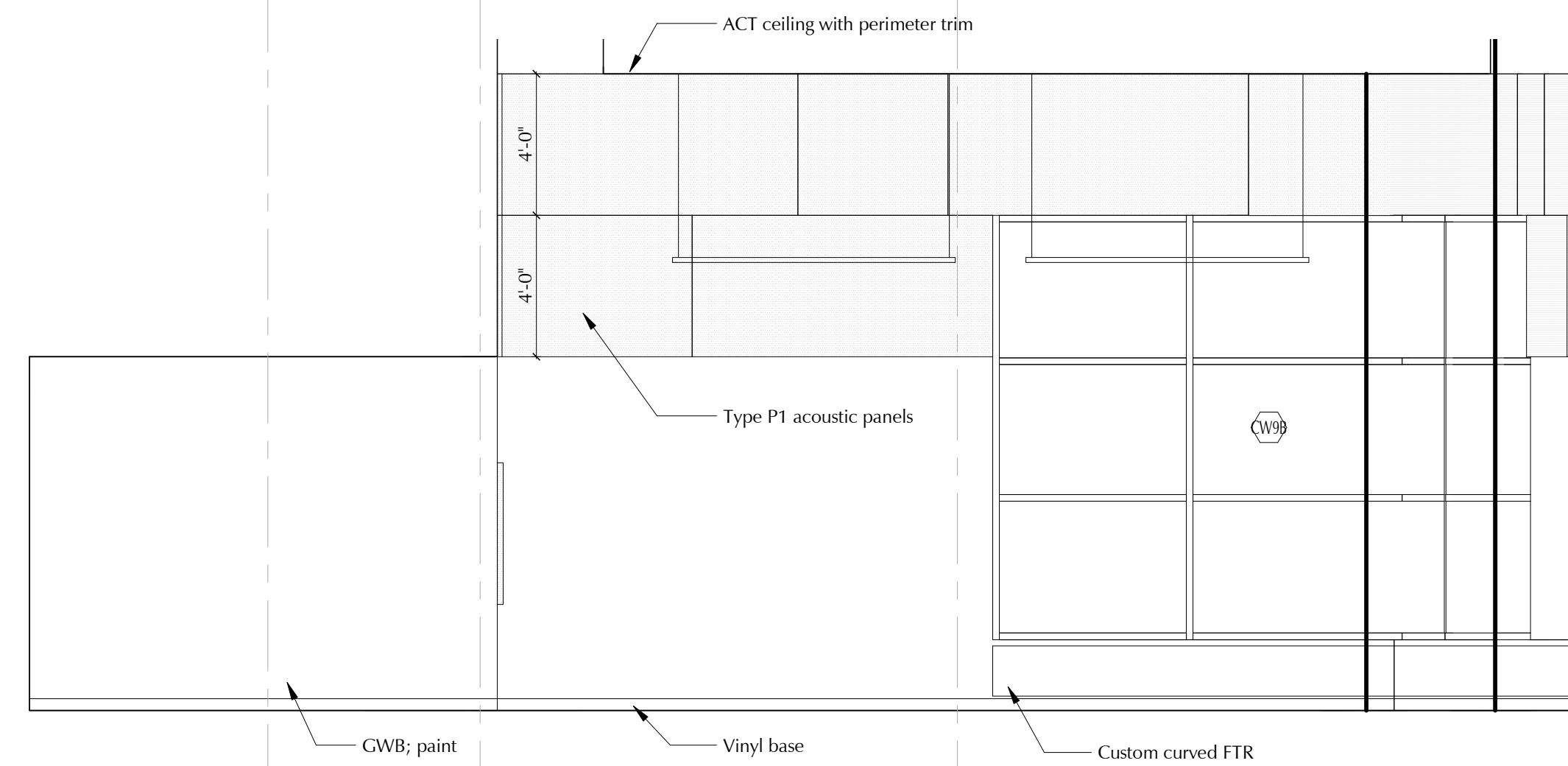
7 Chorus North Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

K

J.7

J



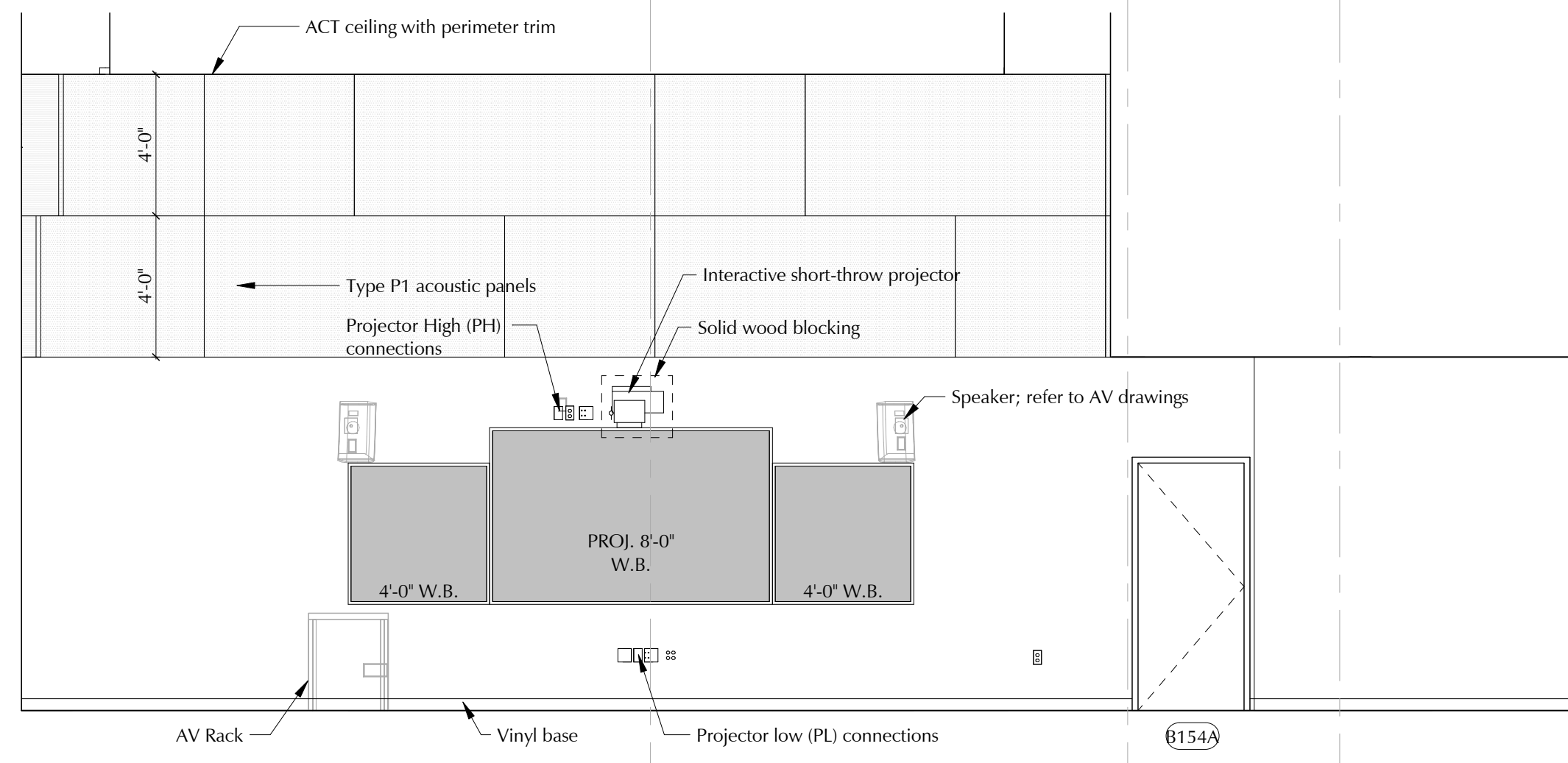
4 Piano Lab West Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

J

J.7

K



5 Piano Lab East Interior Elevation

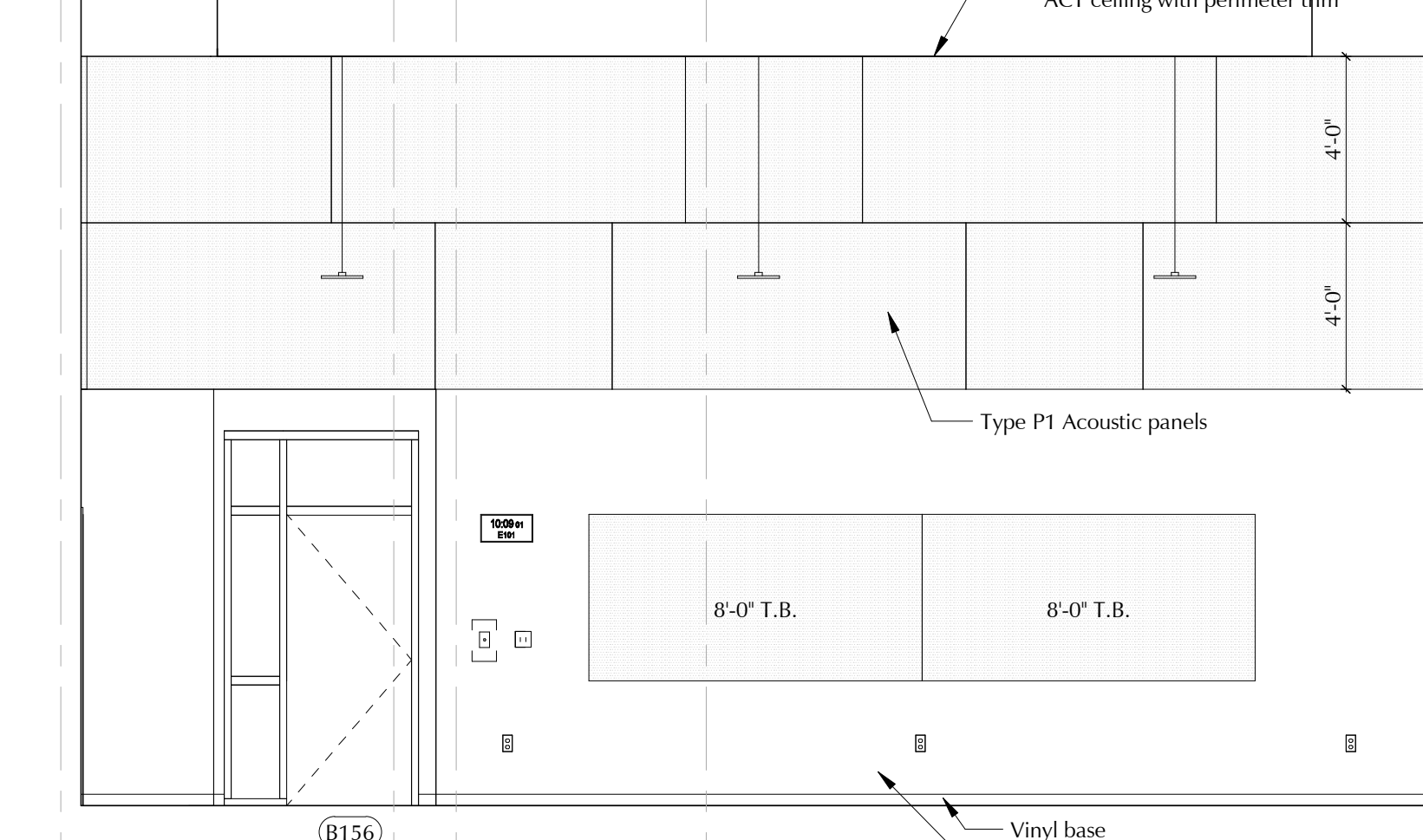
A8.22 Scale: 1/4" = 1'-0"

22

21.8.1.3

21

20



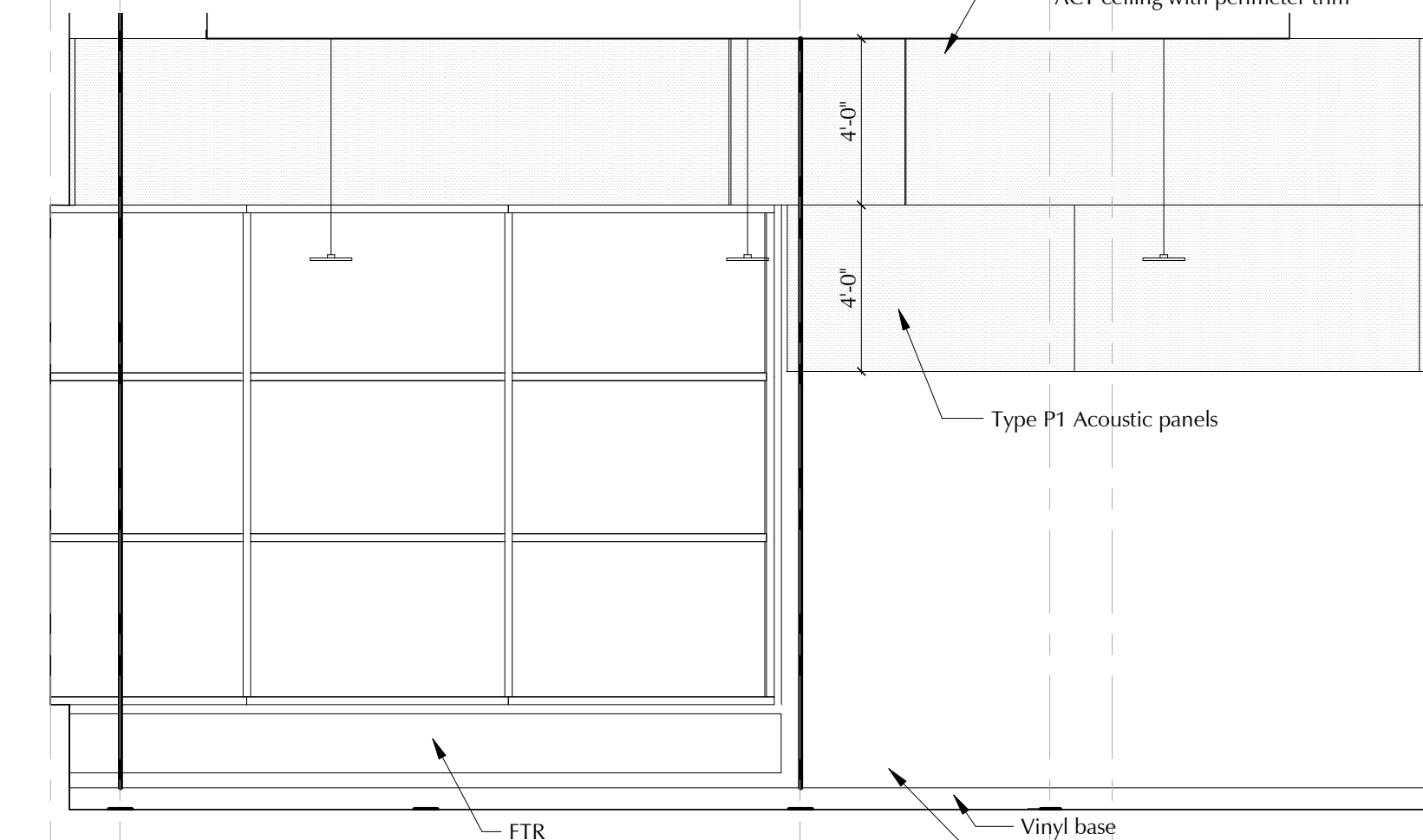
6 Piano Lab South Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

20.0.1

21

21.8.1.4



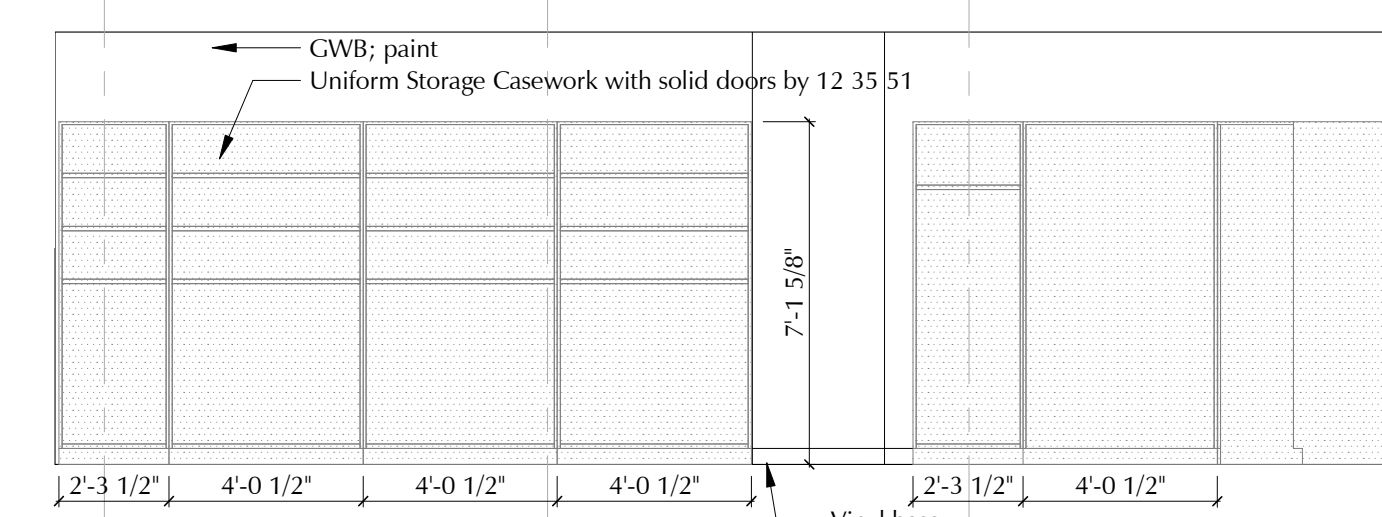
3 Piano Lab North Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

R

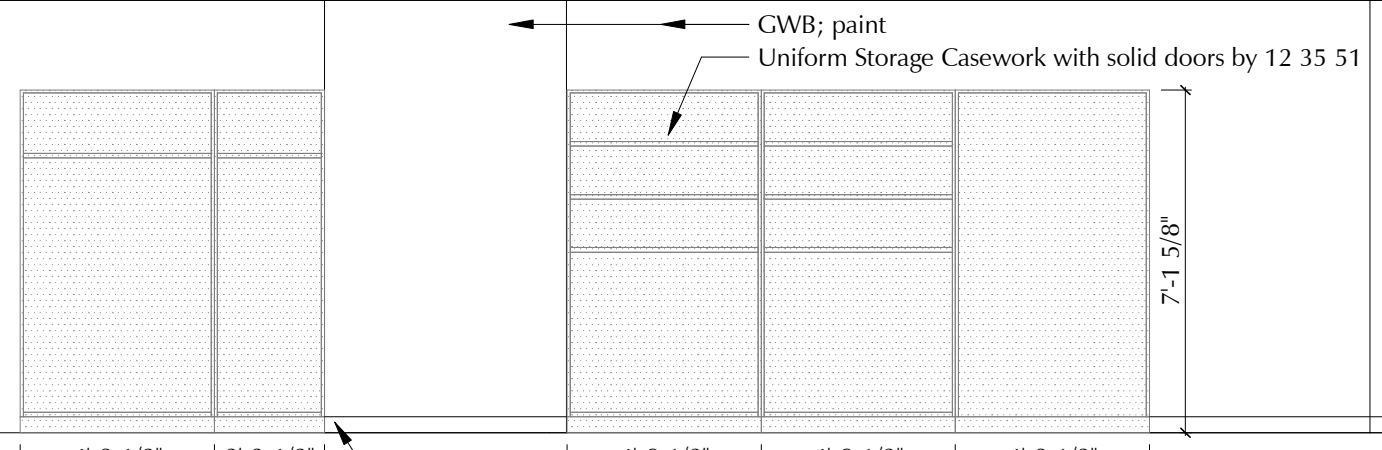
Q.6

Q



18 B178.2 & B178.3 West Elevation

A8.22 Scale: 1/4" = 1'-0"



17 B178.2 & B178.3 East Elevation

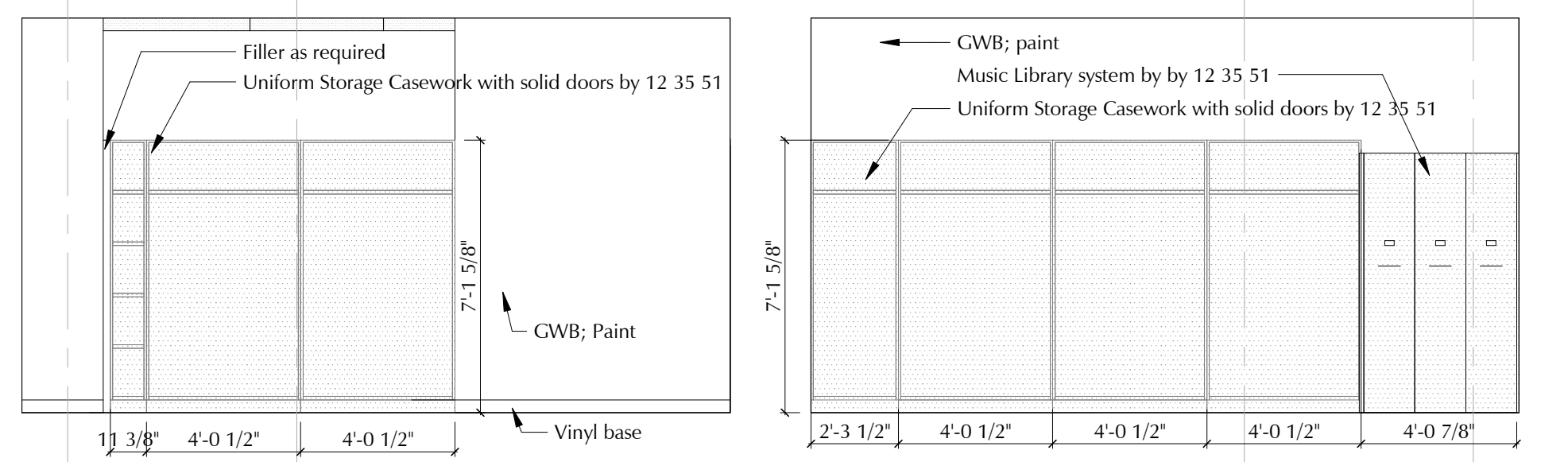
A8.22 Scale: 1/4" = 1'-0"

28.7

29

29

28.7

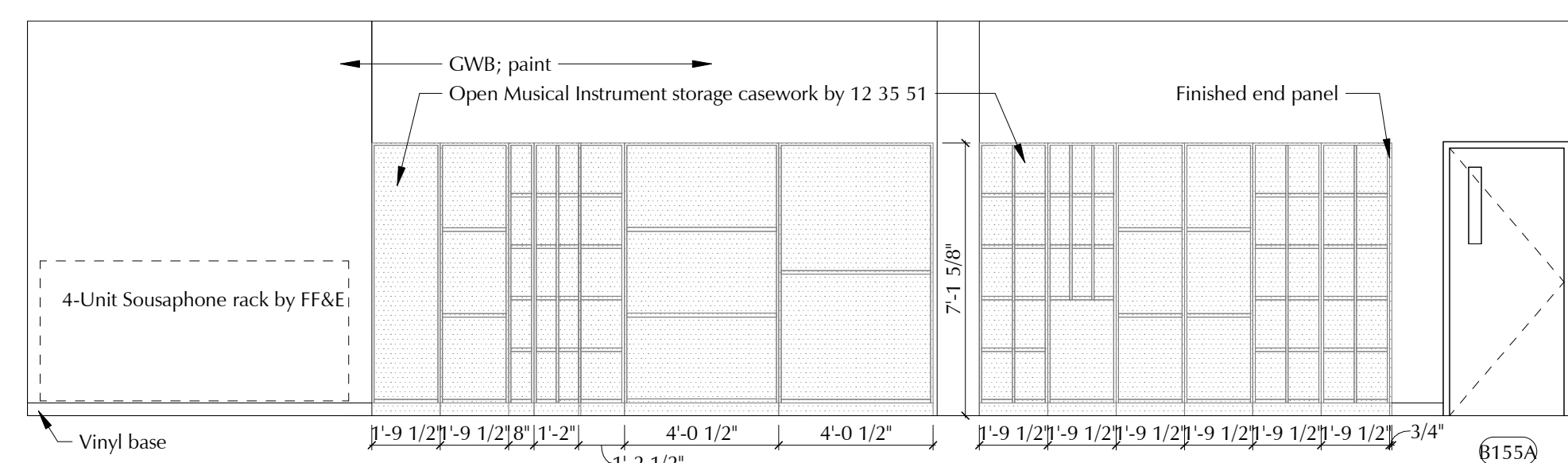


15 Chorus Storage North Elevation

A8.22 Scale: 1/4" = 1'-0"

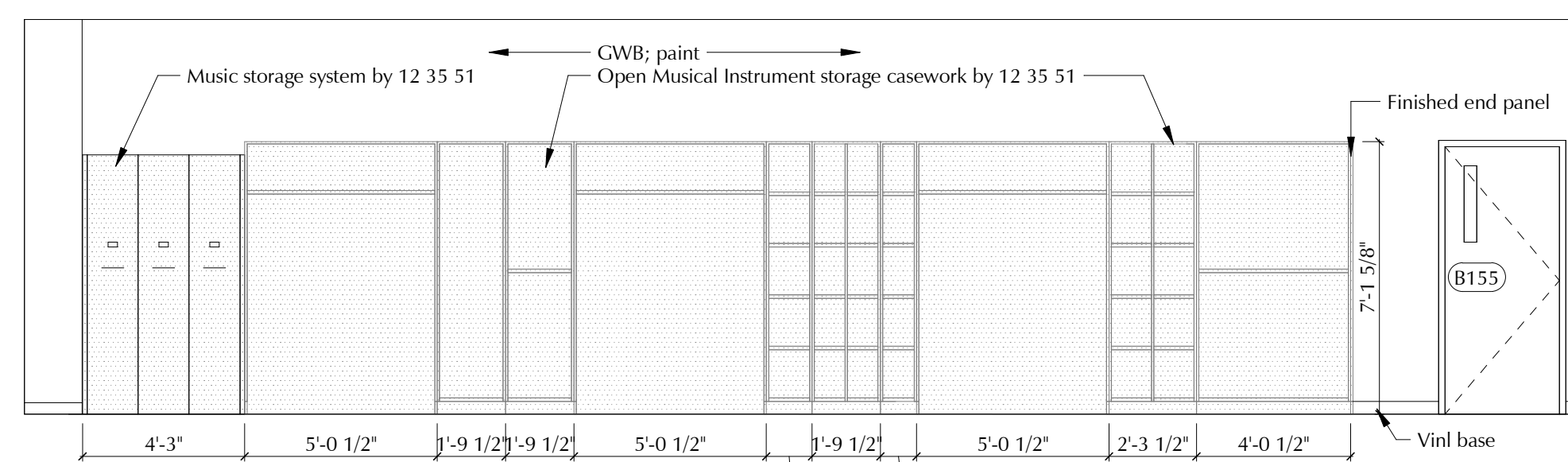
16 Chorus Storage South Elevation

A8.22 Scale: 1/4" = 1'-0"



1 Band Storage Casework North Elevation

A8.22 Scale: 1/4" = 1'-0"

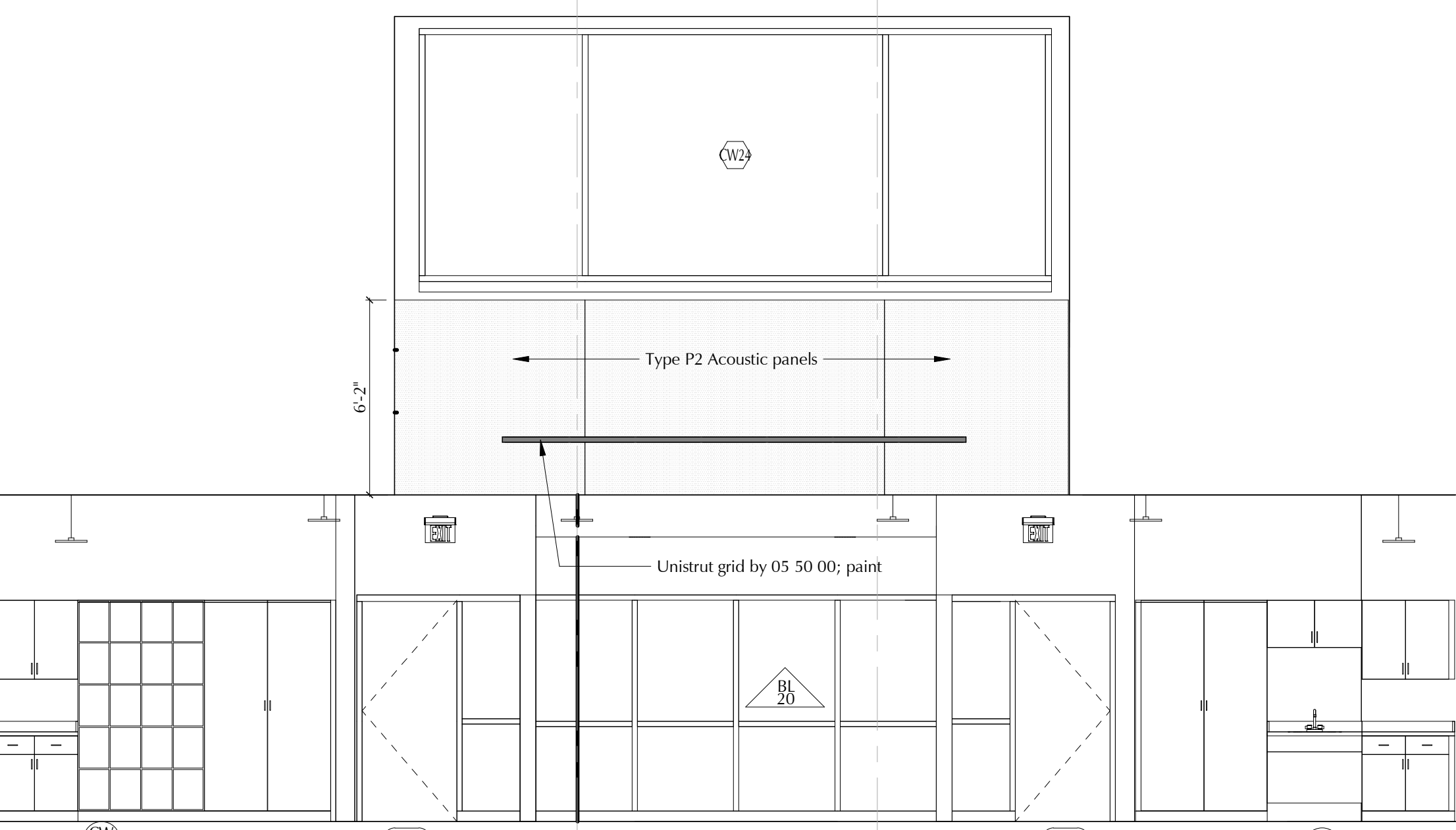


1 Band Storage Casework South Elevation

A8.22 Scale: 1/4" = 1'-0"

36

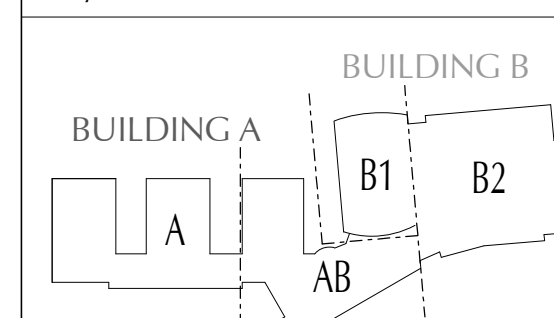
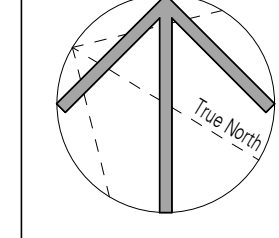
36.4

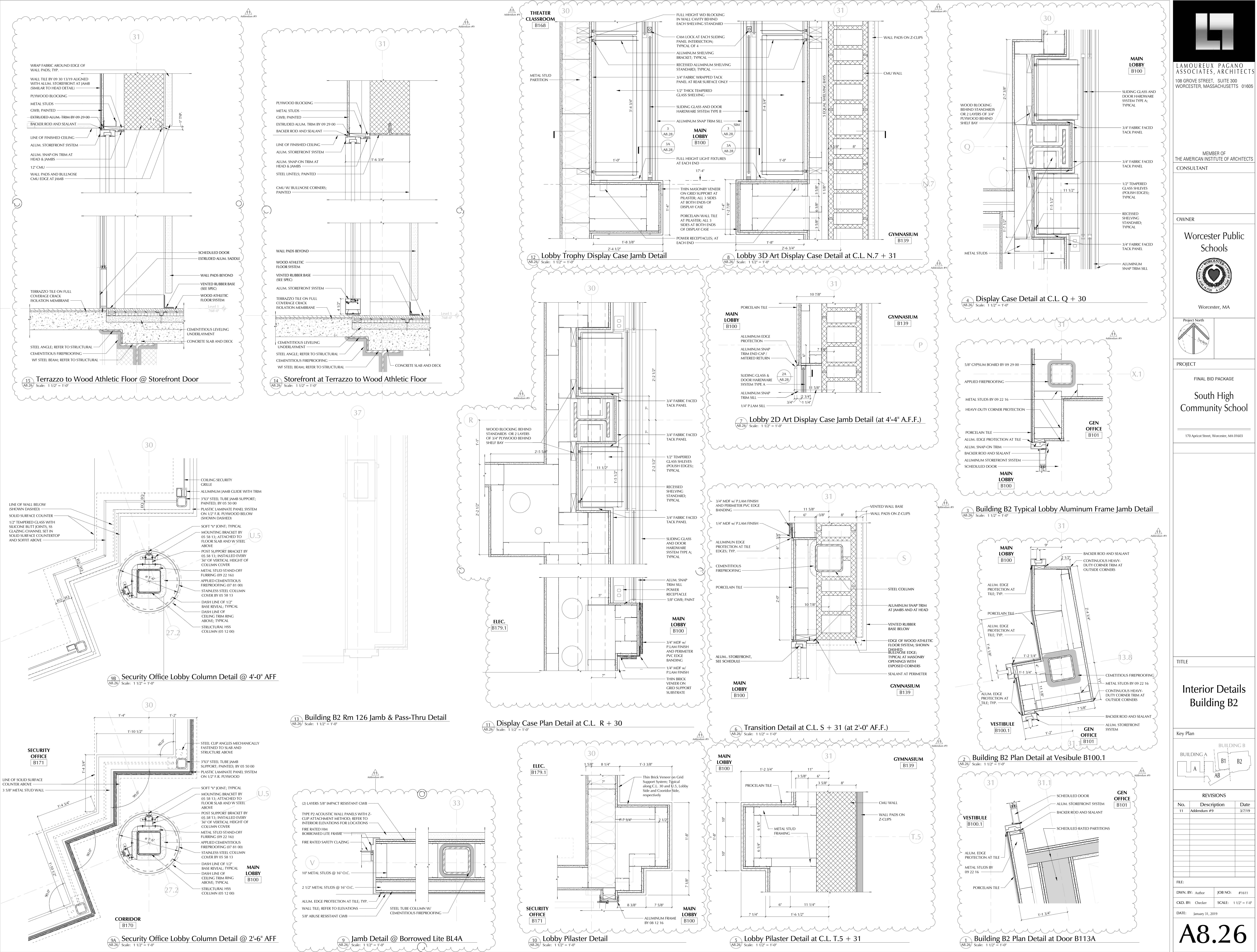


11 Art North B206 Interior Elevation

A8.22 Scale: 1/4" = 1'-0"

Similar at Rooms: B204 & B202





LAMOREUX PAGANO ASSOCIATES, ARCHITECTS

108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

MEMBER OF
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CONSULTANT

OWNER

Worcester Public Schools

Worcester, MA

Project North

Project North

PROJECT

FINAL BID PACKAGE

South High Community School

170 Apituck Street, Worcester, MA 01603

TITLE

Interior Details
Building B2

Key Plan

BUILDING A

BUILDING B

A

B1

B2

AB

REVISIONS

No.	Description	Date
11	Addendum #9	3/7/19

FILE:

DWN. BY: Author

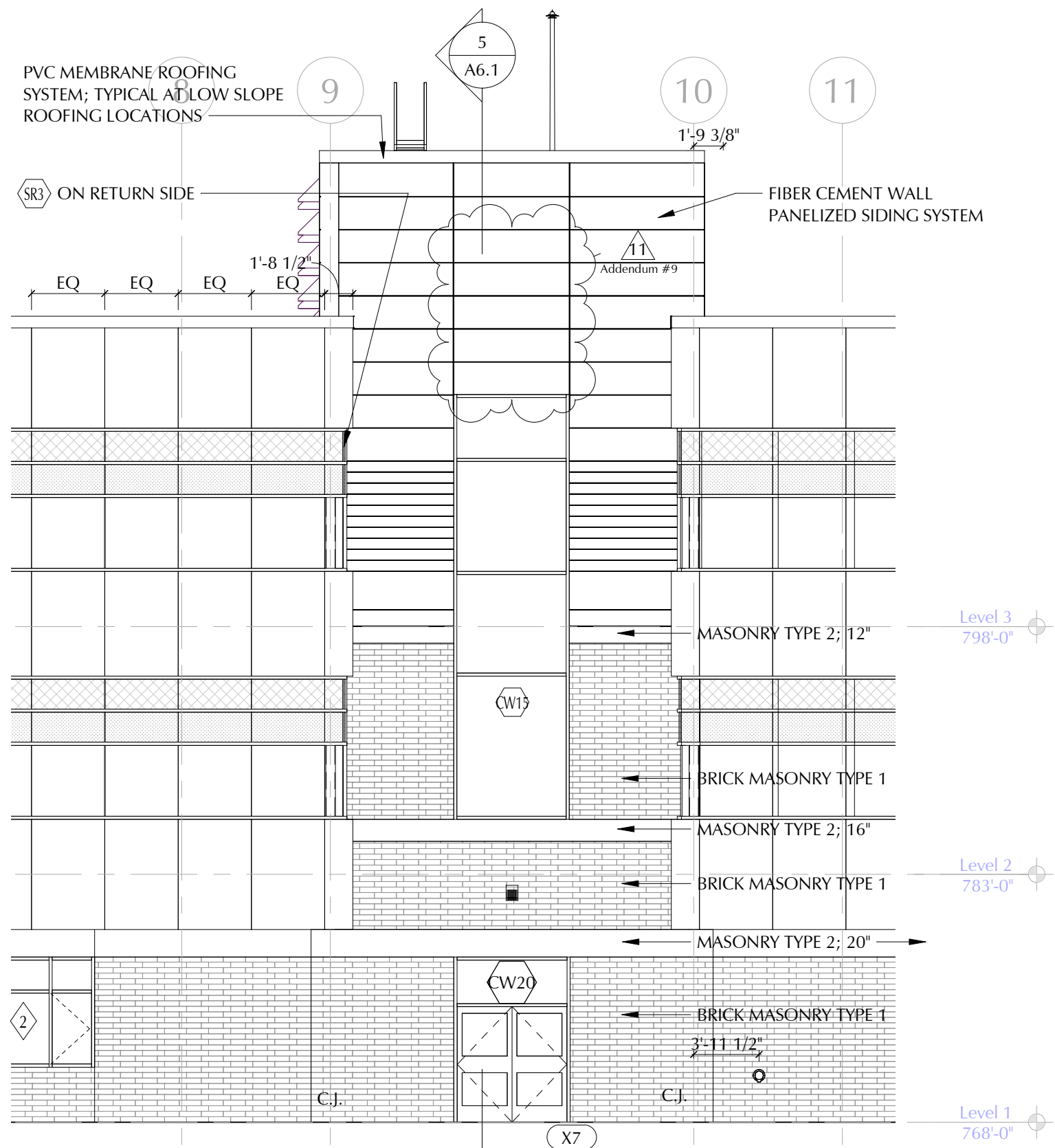
JOB NO.: #1611

CKD. BY: Checker

SCALE: 1 1/2" = 1'-0"

DATE: January 31, 2019

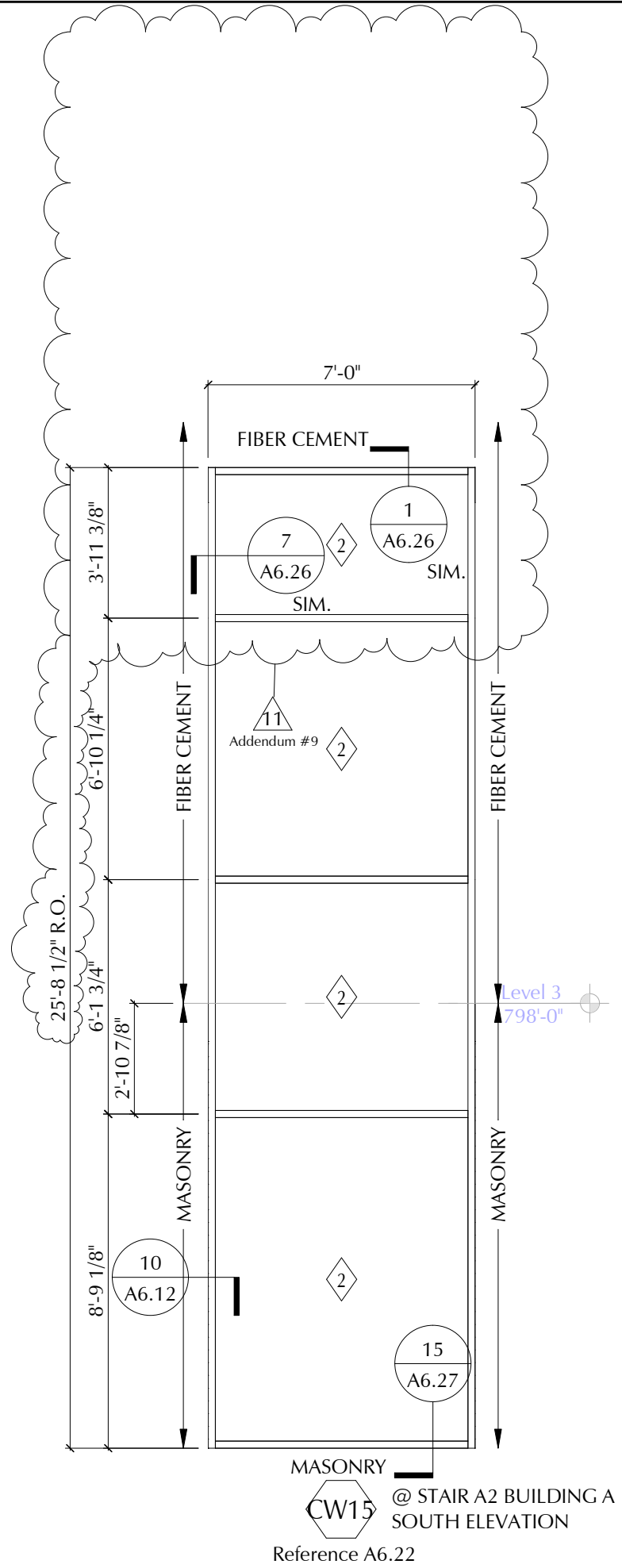
A8.26



20B
A5.5

Partial South Elevation (Science Classrooms-continued)

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

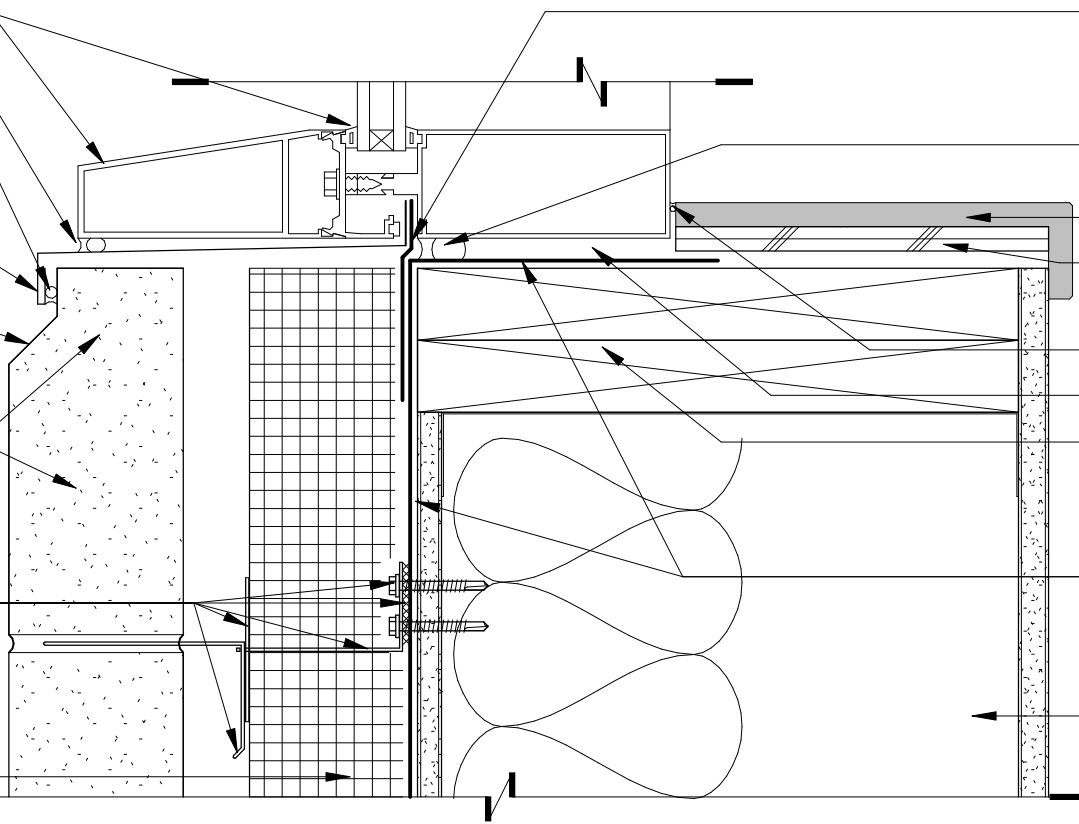


**@ STAIR A2 BUILDING A
SOUTH ELEVATION**

Reference A6.22

<p>DRAWING NAME:</p> <p>Building A Stair #A2 Curtain Wall</p> <p>CW15 Elevation Revisions</p>	<p>SHEET REF. NO.</p> <p>A5.5</p> <p>A6.22</p>
<p>DRAWING NUMBER:</p> <p>ADD-9</p> <p>A-025</p>	<p>DATE:</p> <p>3/2/2019</p> <p>SCALE:</p> <p>As indicated</p> <p>REFERENCE:</p> <p>Addendum #9</p>
<p>PROJECT TITLE:</p> <p>South High Community School</p>	<p>CLIENT INFORMATION:</p> <p>Worcester Public Schools</p> <p>City of Worcester Massachusetts, 01605</p>
<p>20B A5.5</p>	<p>170 Apricot Street, Worcester, MA 01603</p>

GLAZED ALUMINUM CURTAIN
WALL ASSEMBLY WITH
CUSTOM PRESSURE PLATE CAP
BY 08 44 13; TYPICAL
BACKER ROD AND SEALANT,
WEEP AT 12" O.C. BY 08 44 13;
TYPICAL
BACKER ROD AND SEALANT BY
07 92 00; TYPICAL
METAL SILL FLASHING BY
08 44 13; TYPICAL
MASONRY TYPE 2 FINISHED
EDGE; TYPICAL
MASONRY TYPE 2 (CALCIUM
SILICATE) UNIT SUPPLIED BY 04 73
13, INSTALLED BY 04 20 00;
TYPICAL
ADJUSTABLE VENEER ANCHOR
PLATE, FASTENERS, HOOK/PINTLE,
MINERAL WOOL INSULATION
RETENTION WASHER/CLIP &
SEALANT BY 04 20 00; TYPICAL
R-15 MIN. MINERAL WOOL
INSULATION AT BRICK MASONRY
VENEER CONSTRUCTION BY 04 20 00;
TYPICAL



CURTAIN WALL TRANSITION
MEMBRANE, ADHESIVE AND
EDGE SEALANTS, 6" WIDE MIN.
BY 08 44 13; TYPICAL
BACKER ROD AND SEALANT,
BY 08 44 13; TYPICAL
STOOL BY 06 61 16; TYPICAL
1/2" FRT PLYWOOD BY 06 10 00;
TYPICAL
CAULK BY 07 92 00; TYPICAL
SHIMS BY 08 44 13; TYPICAL
2X WOOD BLOCKING (2-
LAYERS AT SILL) AT ROUGH
OPENING BY 06 10 00;
TYPICAL
CONTINUOUS VAPOR
PERMEABLE AIR BARRIER BY
07 27 13; TYPICAL (RETURN
INTO ROUGH OPENING)
EXTERIOR METAL STUD
FRAMING BY 05 40 00;
TYPICAL

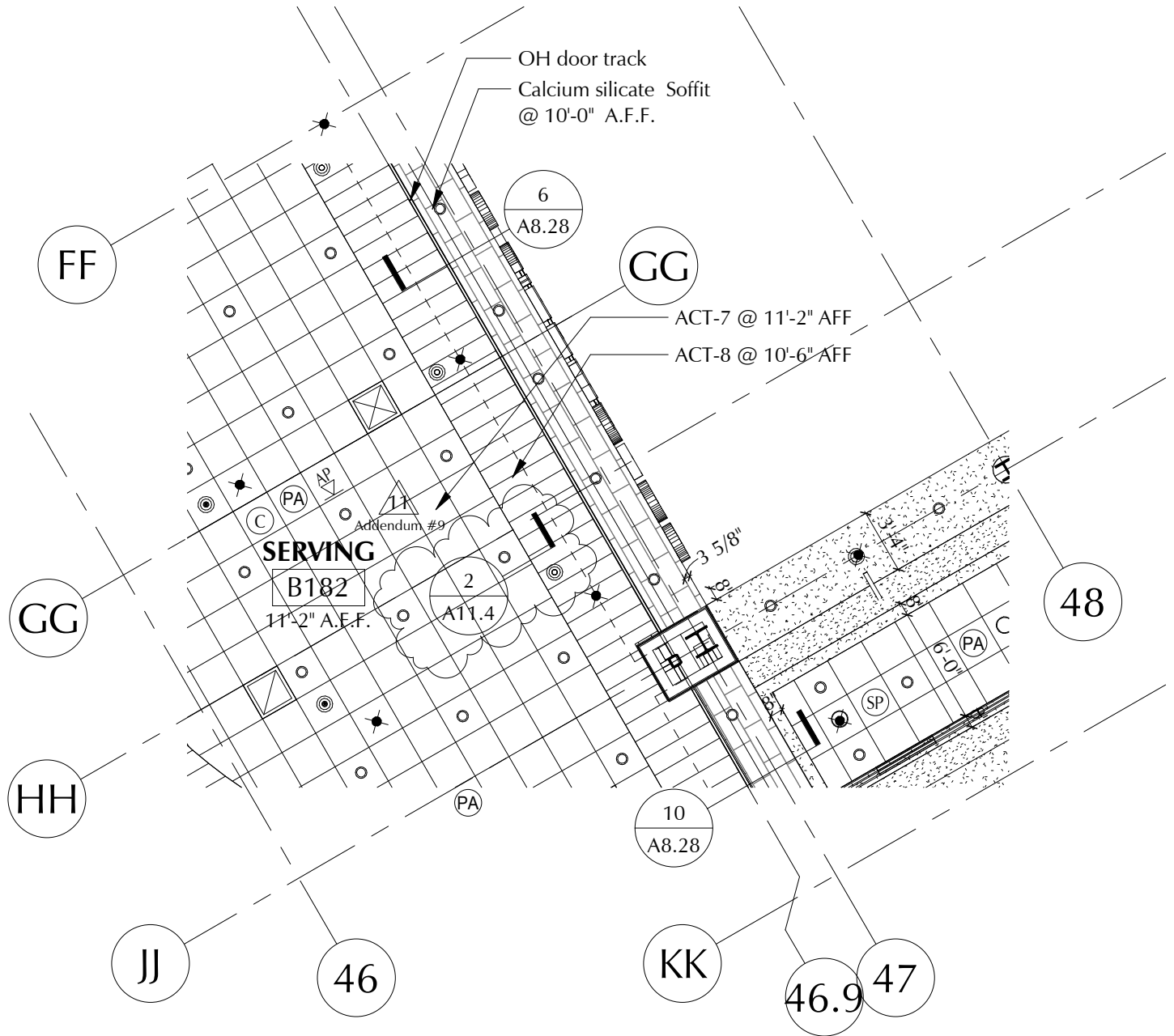
15
A6.27

Curtain Wall Sill at Calcium Silicate

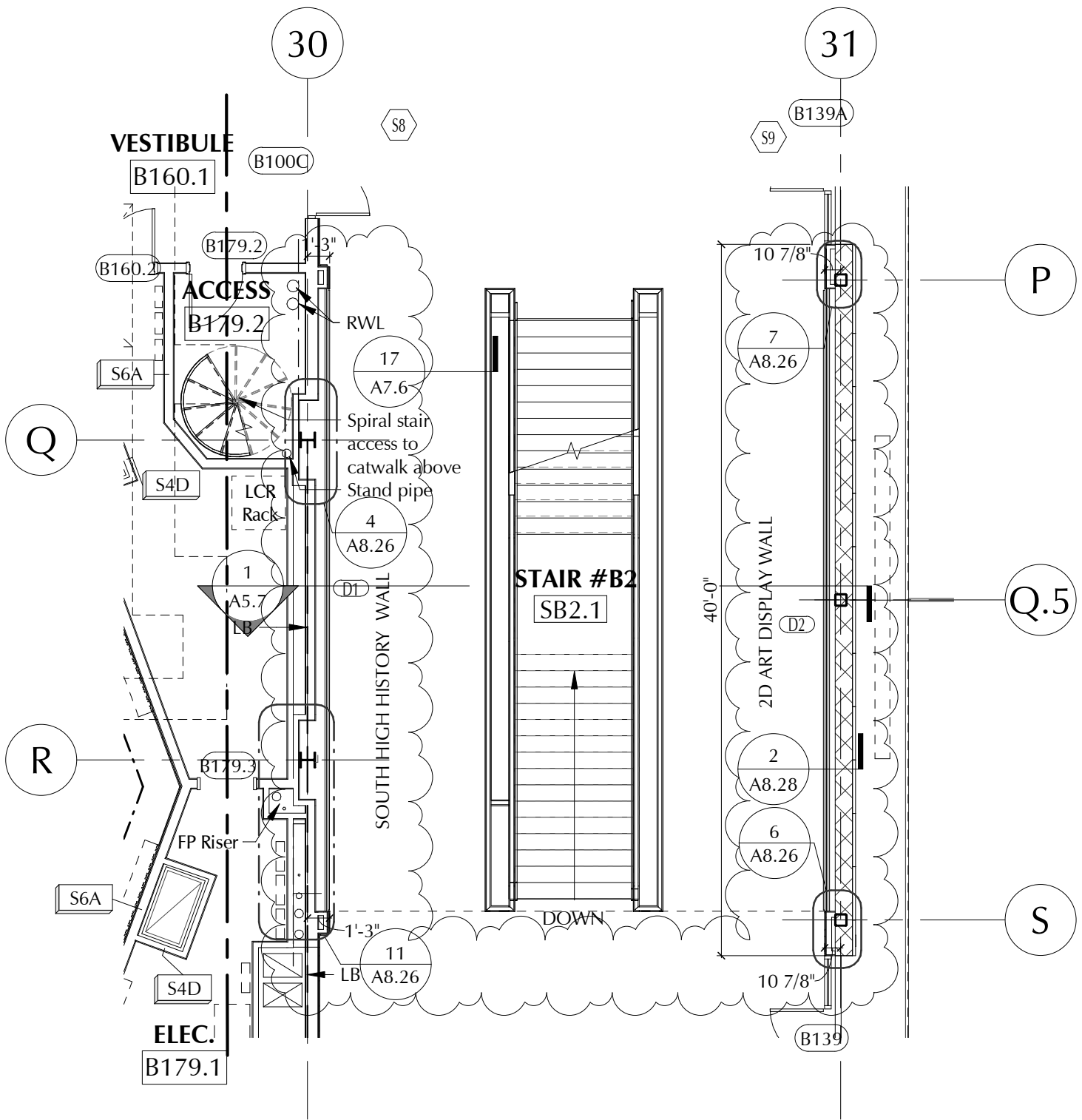
Scale: 3" = 1'-0"

11
Addendum #9

 LAVOURUX PACHECO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	<p>CLIENT INFORMATION:</p> <p>Worcester Public Schools</p>  <p>City of Worcester Massachusetts, 01605</p>	<p>PROJECT TITLE:</p> <p>South High Community School</p> <p>170 Apricot Street, Worcester, MA 01603</p>	DRAWING NAME:	SHEET REF. NO.
			Curtain Wall Sill at Calcium Silicate	A6.27
			Revisions	DRAWING NUMBER:
			DATE: 3/2/2019	ADD-9
SCALE: 3" = 1'-0"	A-027			
REFERENCE: Addendum #9				



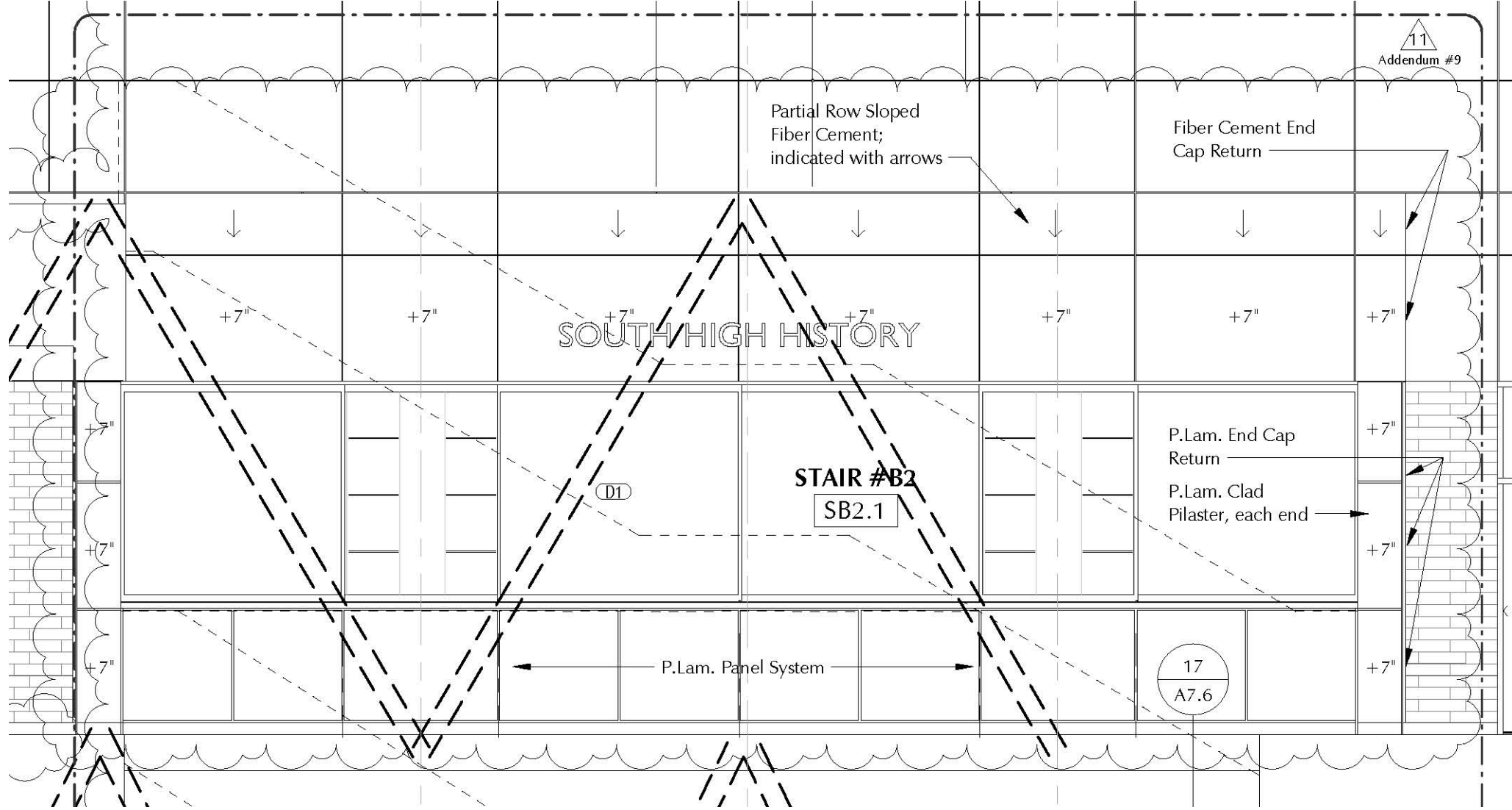
1
A4.4 Partial First Floor Reflected Ceiling Plan Section AB
Scale: 1/8" = 1'-0"



3
A3.6

First Floor Plan - Section B2

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



 LANOURLUX PACHECO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools  City of Worcester Massachusetts, 01605	PROJECT TITLE: South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Lobby Partial NW Interior Elevation	SHEET REF. NO. 5/A8.10
			DATE: 03/07/19	DRAWING NUMBER: ADD-9
			SCALE:	A-030

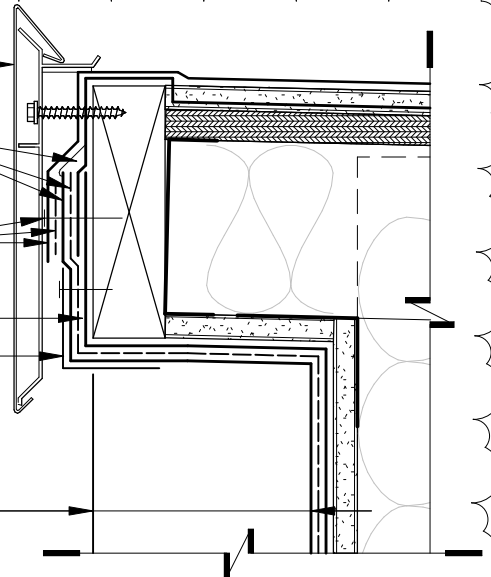
PRE-FAB ROOF EDGE FASCIA ASSEMBLY (07 71 00)
 TRANSITION FLASHING (TRANSITION MEMBRANE)
 ADHESIVE AND EDGE SEALANT (07 27 13)

ROOFING MEMBRANE SEALED TO AND FASTENED
 OVER TRANSITION FLASHING (07 54 19)

CONTINUOUS WALL VAPOR PERMEABLE AIR
 BARRIER (07 27 13)

2"x2" BRAKE METAL TRIM CLOSURE (07 62 00)

THERMALLY INSULATED FACADE ATTACHMENT
 SYSTEM, INSULATION, FIBER CEMENT PANEL SYSTEM,
 MCM SYSTEM, MASONRY SYSTEM ASSEMBLIES NOT
 SHOWN

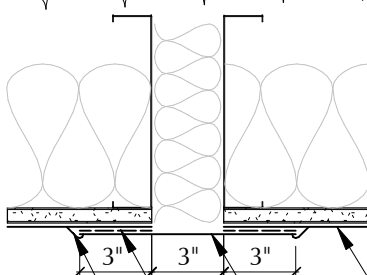


NOTE:
 DETAIL SECTION SHOWN AT EDGE OF
 EXPANSION JOINT WALL TO ROOF CONDITION

8 Air Barrier Transition Flashing to Roof

A6.17 Scale: 3" = 1'-0"

11
 Addendum #9



11
 Addendum #9

WALL AIR BARRIER
 (07 27 13)
 TRANSITION MEMBRANE
 (07 27 13)
 TRANSITION MEMBRANE
 ADHESIVE (07 27 13)
 TRANSITION MEMBRANE
 EDGE SEALANT (07 27 13)

NOTE: TYPICAL AT WALL EXPANSION
 JOINT LOCATIONS (CORNER EXPANSION
 JOINT DETAILING SIMILAR)

9 Wall Expansion Joint Transition Flashing (Transition Membrane)

A6.17 Scale: 1 1/2" = 1'-0"

R-17 MIN. MINERAL WOOL
INSULATION AT METAL
COMPOSITE MATERIAL PANEL
ASSEMBLY BY 07 42 43; TYPICAL

CONTINUOUS VAPOR PERMEABLE
AIR BARRIER BY 07 27 13; TYPICAL
(RETURN INTO ROUGH OPENING)

1/2" EXTERIOR GYPSUM SHEATHING
BY 06 16 00; TYPICAL

METAL COMPOSITE MATERIAL
SYSTEM BY 07 42 43; TYPICAL

ELEV. 779'-1 1/2"

METAL COMPOSITE MATERIAL SYSTEM
SUB-FRAMING, FURRING, ACCESSORY
ATTACHMENT ANGLES, FASTENERS AND
SHIMS BY 07 42 43; TYPICAL

SEALANT AT THERMALLY INSULATED
FACADE ATTACHMENT SYSTEM
FASTENER PENETRATIONS AND
CONTINUOUSLY ALONG HORIZONTAL
JOINT BY 07 42 43; TYPICAL

THERMALLY INSULATED FACADE
ATTACHMENT SYSTEM BY 07 42 43;
TYPICAL

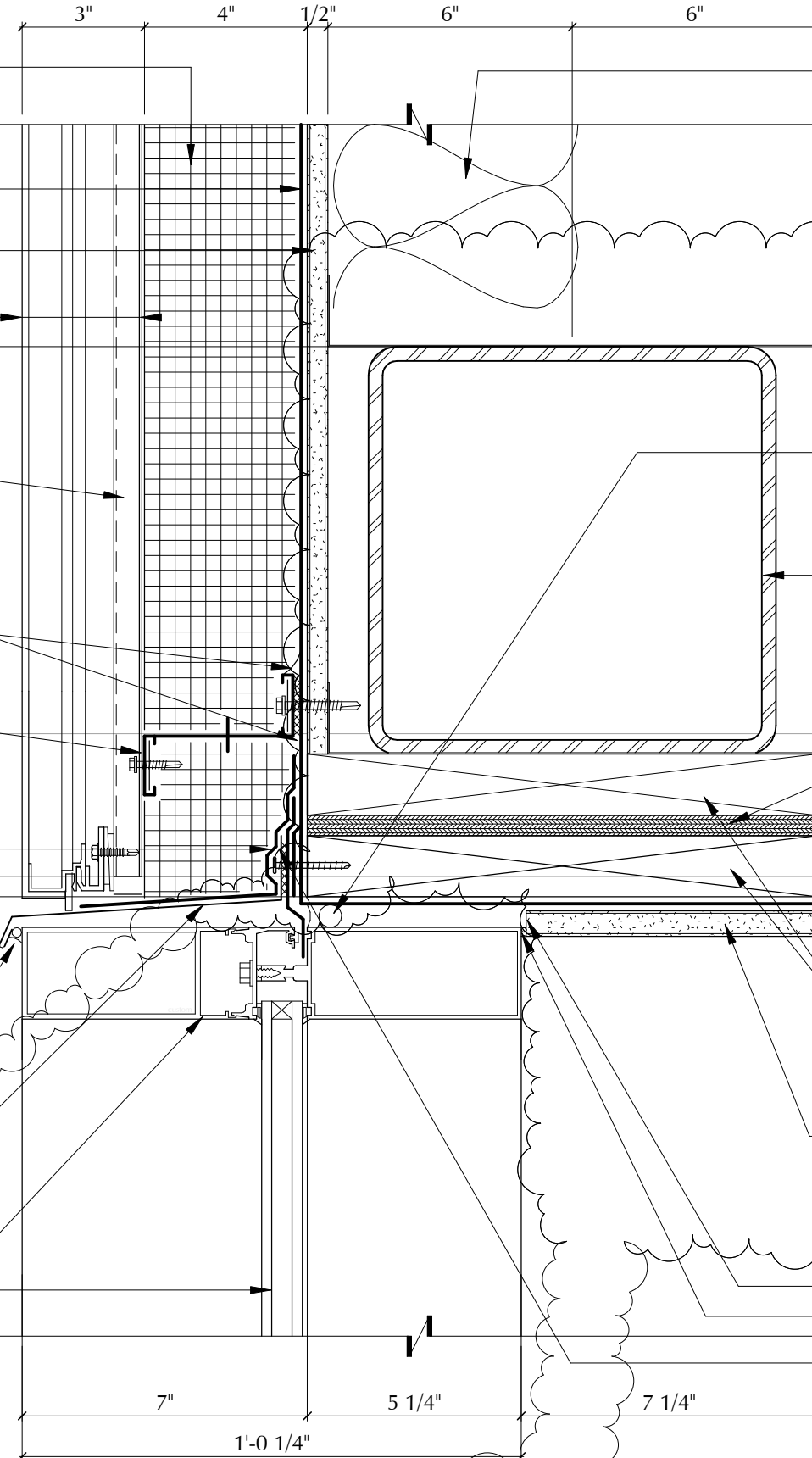
CONCEALED THROUGH WALL
FLASHING TERMINATION MEMBRANE
AND SEALANT AT EDGES BY 07 42 43;
TYPICAL

ELEV. 778'-0"

BACKER ROD AND SEALANT BY
08 44 13; TYPICAL

METAL THROUGH WALL
FLASHING WITH HEMMED
EDGE BY 07 42 43; TYPICAL

GLAZED ALUMINUM CURTAIN
WALL ASSEMBLY WITH CUSTOM
PRESSURE PLATE CAP BY 08 44 13;
TYPICAL



R-24 BATT INSULATION BY
07 21 00; TYPICAL

EXTERIOR METAL STUD FRAMING
BY 05 40 00; TYPICAL

5/8" TYPE X GYPSUM BOARD BY 09
29 00; TYPICAL

11
Addendum #9

BACKER ROD AND SEALANT
(08 44 13); TYPICAL

STRUCTURAL STEEL BY
05 12 00; TYPICAL

1/2" FRT PLYWOOD BY 06 10 00;
TYPICAL

SEE ROOM FINISH SCHEDULE FOR
CEILING TYPE AND INDIVIDUAL
ROOMS FOR HEIGHTS ABOVE
FINISH FLOOR; TYPICAL

2X FR WOOD BLOCKING AT
CURTAIN WALL ROUGH OPENING
BY 06 10 00; TYPICAL

5/8" TYPE X GYPSUM BOARD
RETURN BY 09 29 00; TYPICAL

NOTE: CW#7 HEAD SIMILAR

1" L BEAD BY 09 29 00; TYPICAL

CAULK BY 07 92 00; TYPICAL

CONTINUOUS SEALANT
BEHIND FLASHING BY 07 42 43;
TYPICAL

5
A6.27

Building B2 Curtain Wall CW#7A Head at Lower Lobby

Scale: 3" = 1'-0"

SHEET REF. NO.

A6.27

DRAWING NAME:

Curtain Wall CW #7A Head

Revisions

DATE:

3/4/2019

SCALE:

3" = 1'-0"

REFERENCE:

Addendum #9

DRAWING NUMBER:

ADD-9

A-032

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:

Worcester Public Schools

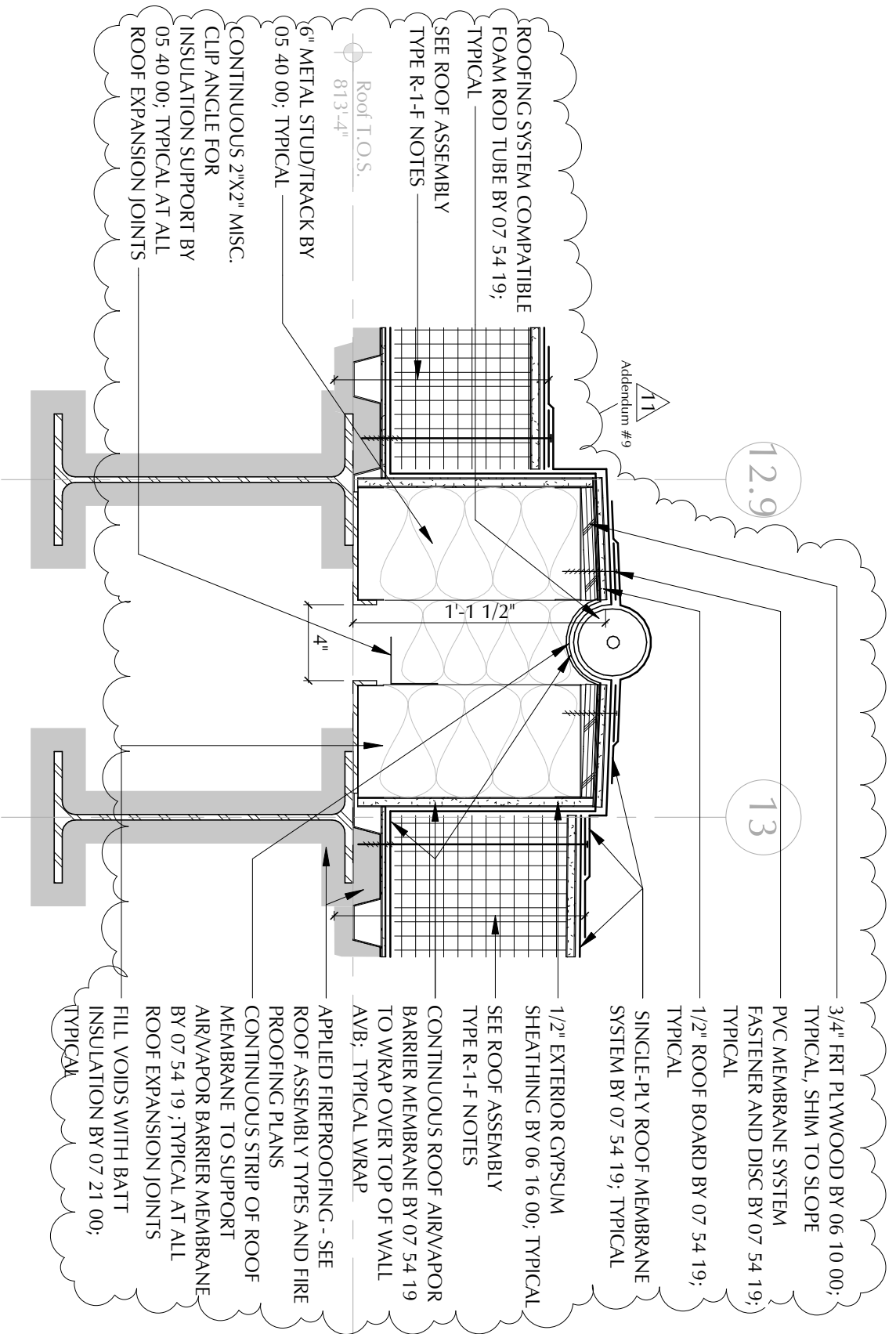


City of Worcester
Massachusetts, 01605



LAVOIE & ASSOCIATES
ARCHITECTS
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WORCESTER, MASSACHUSETTS 01605

MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS



Building A Roof Expansion Joint

2
A6.34
Scale: 1 1/2" = 1'-0"



GLAZED ALUMINUM CURTAIN
WALL ASSEMBLY WITH
CUSTOM PRESSURE PLATE CAP
BY 08 44 13; TYPICAL
BACKER ROD AND SEALANT,
WEEP AT 12" O.C. BY 08 44 13;
TYPICAL

11
Addendum #9

ELEV. 769'-9"
BACKER ROD AND SEALANT BY
07 92 00; TYPICAL

ELEV. 769'-6"
METAL THROUGH WALL
FLASHING WITH HEMMED
EDGE BY 08 44 13; TYPICAL
R-17 MIN. MINERAL WOOL
INSULATION AT METAL
COMPOSITE MATERIAL PANEL
ASSEMBLY BY 07 42 43; TYPICAL
SEALANT AT THERMALLY INSULATED
FACADE ATTACHMENT SYSTEM
FASTENER PENETRATIONS AND
CONTINUOUSLY ALONG HORIZONTAL
JOINT BY 07 42 43; TYPICAL

THERMALLY INSULATED FACADE
ATTACHMENT SYSTEM BY 07 42 43; TYPICAL
METAL COMPOSITE MATERIAL SYSTEM
SUB-FRAMING, FURRING, ACCESSORY
ATTACHMENT ANGLES, FASTENERS
AND SHIMS BY 07 42 43; TYPICAL
METAL COMPOSITE MATERIAL
SYSTEM BY 07 42 43; TYPICAL

1/2" EXTERIOR GYPSUM
SHEATHING BY 06 16 00; TYPICAL

CAULK BY 07 92 00; TYPICAL
WINDOW STOOL BY 06 61 16;
TYPICAL
1/2" FRT PLYWOOD BY 06 10 00;
TYPICAL

2X FR WOOD BLOCKING (2
LAYERS AT SILL) AT CURTAIN
WALL ROUGH OPENING BY
06 10 00; TYPICAL
5/8" TYPE X GYPSUM BOARD BY
09 29 00; TYPICAL
METAL STUD FRAMING TRACKS
BY 05 40 00; TYPICAL
CONTINUOUS VAPOR PERMEABLE
AIR BARRIER BY 07 27 13; TYPICAL
(RETURN INTO ROUGH OPENING)
STRUCTURAL STEEL BY
05 12 00; TYPICAL

NOTE: CW#7 SILL SIMILAR

EXTERIOR METAL STUD
FRAMING BY 05 40 00; TYPICAL

R-24 BATT INSULATION BY
07 21 00; TYPICAL

9
A6.27


Building B2 Curtain Wall CW #7A Sill at Lower Lobby

Scale: 3" = 1'-0"

DRAWING NAME: Building B2 Curtain Wall CW #7A Sill Revision	SHEET REF. NO. A6.27	
	DRAWING NUMBER: ADD-9 A-034	
DATE: 03/03/19	SCALE: 3" = 1'-0"	REFERENCE: Addendum #9

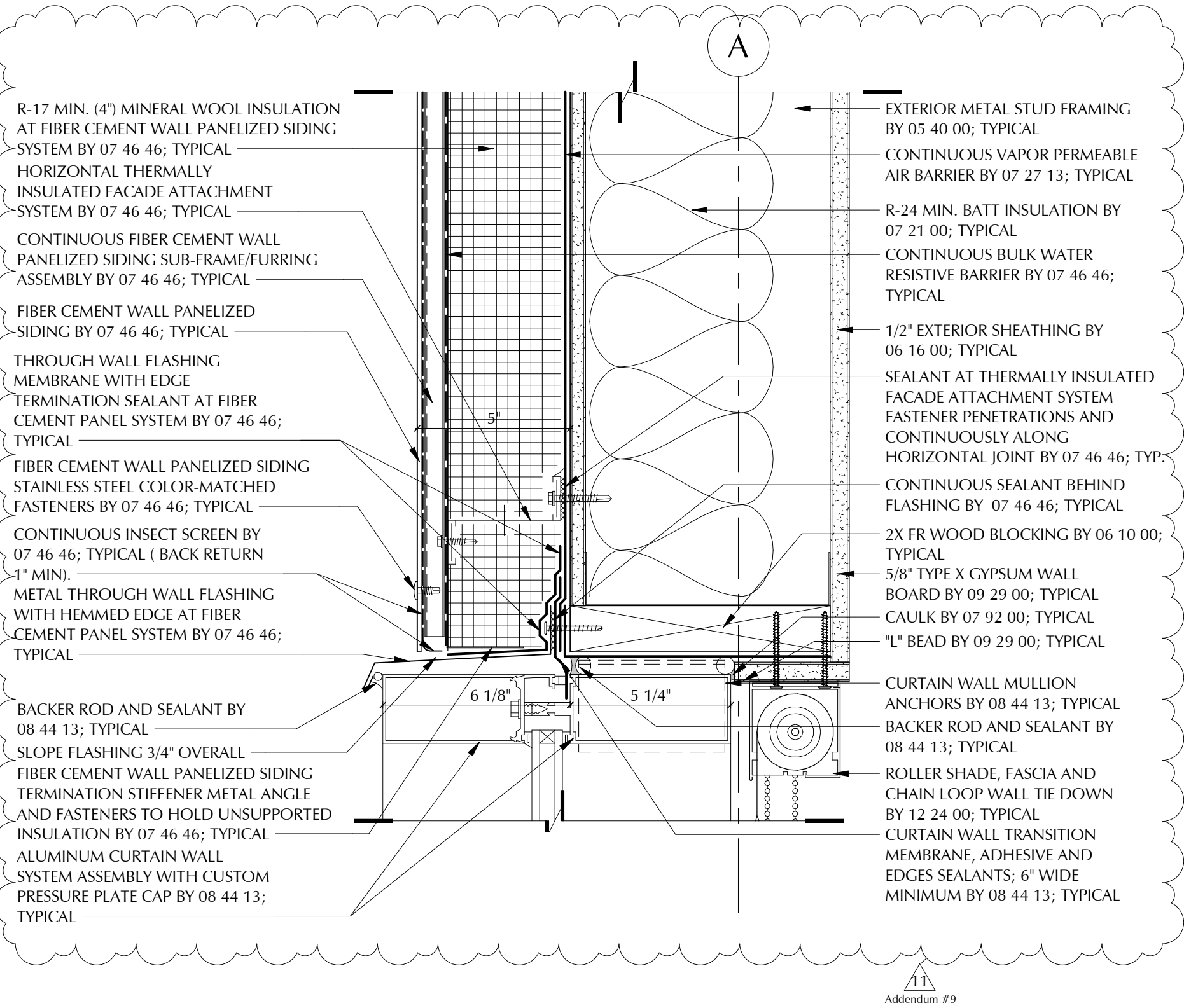
PROJECT TITLE: South High Community School	
170 Apricot Street, Worcester, MA 01603	

CLIENT INFORMATION: Worcester Public Schools	 City of Worcester Massachusetts, 01605
---	--

 LAMOURUX PACHANO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605	MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS
---	---

Curtain Wall at Fiber Cement Siding

Scale: 3" = 1'-0"



11
Addendum #9

 LAVOURUX PACANO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools  City of Worcester Massachusetts, 01605	PROJECT TITLE: <h2>South High Community School</h2> 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Curtain Wall Head at Fiber Cement Siding Revisions	SHEET REF. NO. A6.27
			DATE: 03/03/19 SCALE: 3" = 1'-0" REFERENCE: Addendum #9	DRAWING NUMBER: <h1>ADD-9</h1> <h2>A-035</h2>

Floor Finish Legend

SHEET LINOLEUM/
MODULAR LINOLEUM (10"x40")

- SL-1
- ML-1 (ACCENT)
- SL-2
- ML-2 (ACCENT)
- SL-3 (ACCENT)
- ML-3 (ACCENT)
- SL-4 (ACCENT)
- SL-5 (ACCENT)
- SL-6 (ACCENT)
- ML-4 (ACCENT)
- SL-7 (ACCENT)
- SL-8 (ACCENT)

RESILIENT ATHLETIC FLOORING

- RAF-1
- RAF-2
- RAF-3

WOOD

- WD-1
- MPL

TEMPERED HARDBOARD

- HDB

TERRAZZO TILE (24" X 24")
*Stair Treads and Risers

- TER-1
- TER-2
- TER-3
- TER-4
- TER-5
- TER-6*

11
Addendum #9

EPOXY

- EP-1
- EP-2
- EP-2A
- EP-3

11
Addendum #9

ENTRY FLOORING

- EM-1
- EM-2
- EM-3

CARPET TILE (10" X 40")/
SHEET CARPET

- CPT-1
- CPT-2
- CPT-3
- CPT-4
- CPT-5
- CPT-6
- CPT-7
- CPT-8
- CPT-9
- CPT-10
- CPT-11
- CPT-12
- SH-13 (SHEET)

11
Addendum #9

RUBBER

- R-1

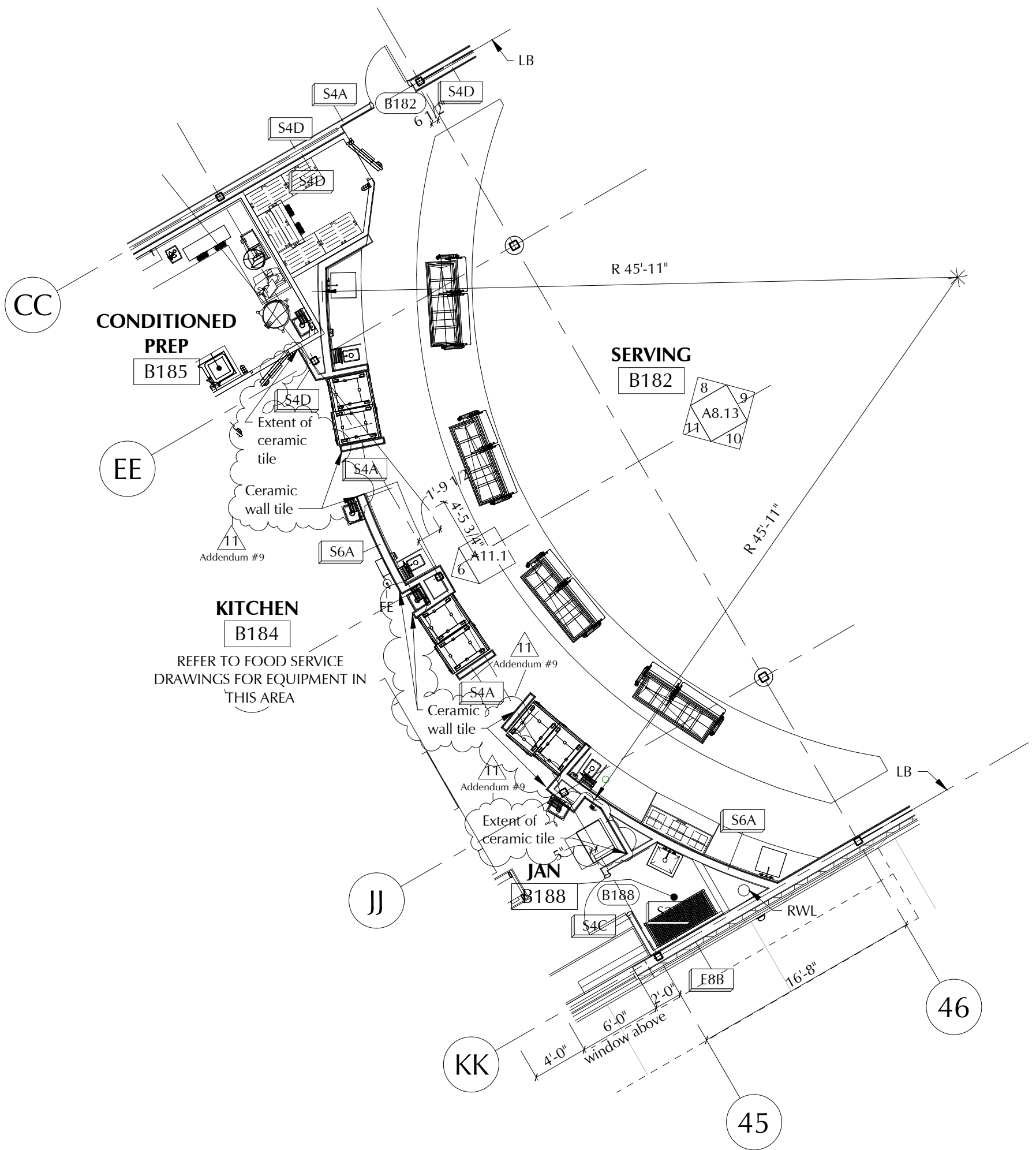
SEALED CONCRETE

- SC

11
Addendum #9

GENERAL FLOOR FINISH NOTES:

1. COORDINATE LOCATION OF ALL FLOOR BOXES WITH ARCHITECT
2. FLOOR TRANSITION DETAILS LOCATED ON DRAWINGS A11.2
3. WALL BASE DETAILS ARE LOCATED ON DRAWING A11.3
4. ALL TRANSITIONS ARE TO BE CENTERED UNDER DOOR; AS OCCURS; U.O.N.
5. PROVIDE MEMBRANE WATERPROOFING @ ALL ELEVATED CONCRETE SLABS RECEIVING CERAMIC TILE FLOORING.



4 Partial First Floor Plan Section AB

A3.4 Scale: 1/8" = 1'-0"

DEPTH VARIES BASED
ON WALL THICKNESS,
LOCATION OF
CURTAIN WALL,
WINDOW,
STOREFRONT SYSTEM

BACKER ROD AND
SEALANT (07 92 00)

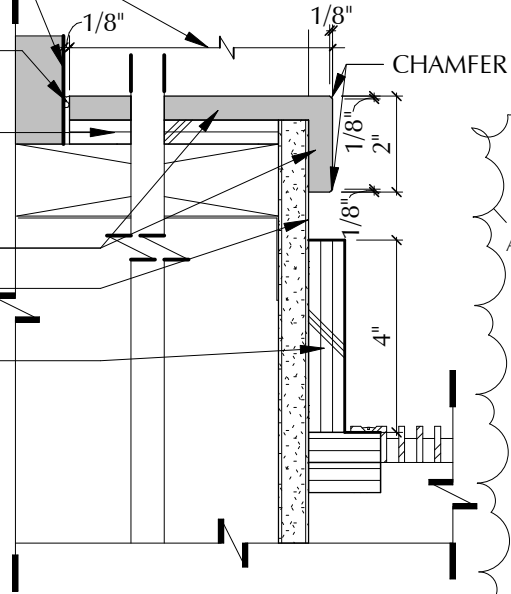
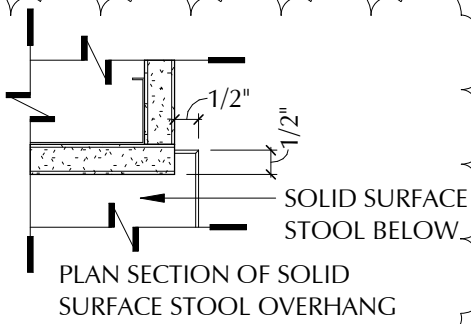
FRTW PLYWOOD
(06 61 00)

SOLID SURFACE
STOOL ASSEMBLY
(06 10 00)

PAINT (09 91 23)

CASEWORK
BACKSPLASH (12 30 00)

TYPICAL SOLID
SURFACE STOOL
SECTION @
CASEWORK
(EXCLUDING ROOMS
SCHEDULED TO
RECEIVE EPOXY)



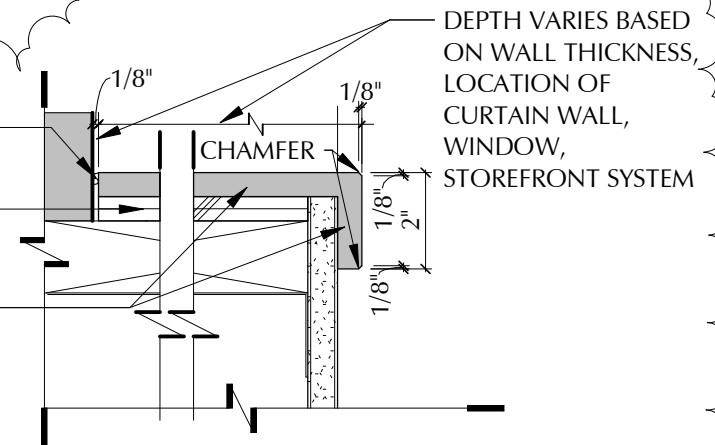
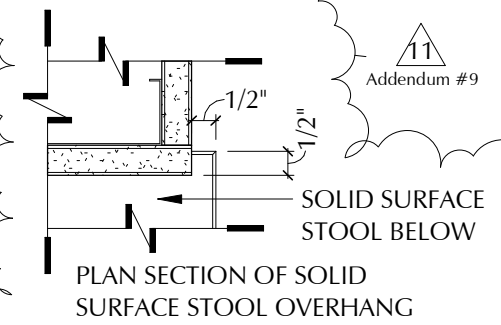
11
Addendum #9

5
A6.17 Typical Stool at Casework
Scale: 3" = 1'-0"

BACKER ROD AND
SEALANT (07 92 00)

FRTW PLYWOOD
(06 61 00)

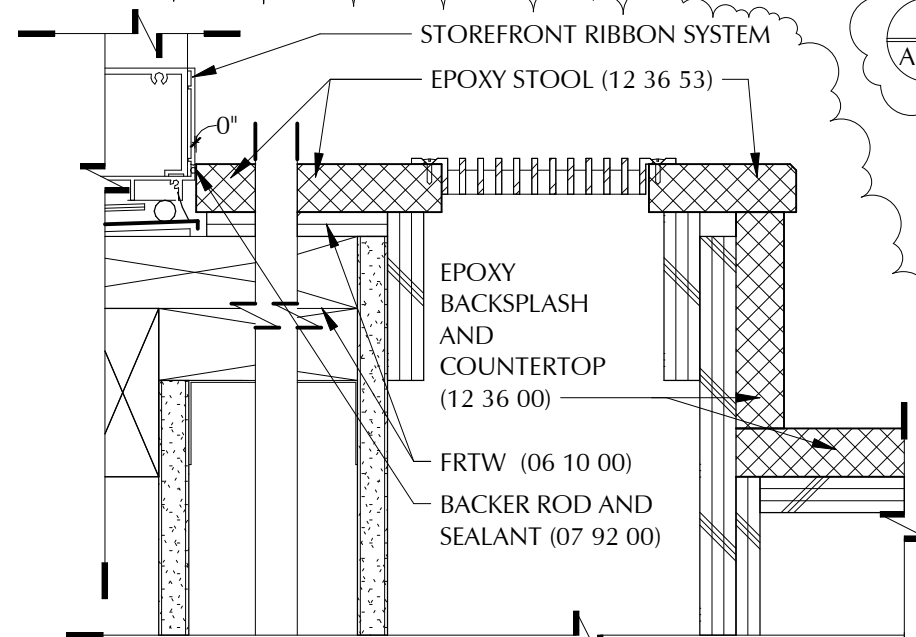
SOLID SURFACE
STOOL ASSEMBLY
(06 10 00)



11
Addendum #9

TYPICAL SOLID SURFACE STOOL SECTION (EXCLUDING CASEWORK
AND ROOMS WITH EPOXY SCHEDULED OR SPECIFICALLY DETAILED OTHERWISE)

6
A6.17 Typical Stool (Excluding Casework and
Epoxy Countertop Locations)
Scale: 3" = 1'-0"



TYPICAL EPOXY STOOL SECTION @ SCIENCE ROOMS
EPOXY STOOLS, BACKSPLASH AND COUNTERTOPS

11
Addendum #9

7
A6.17 Typical Stool at Epoxy Countertop Locations
Scale: 3" = 1'-0"

SHEET REF. NO.

DRAWING NAME:
Typical Window, Curtain Wall &
Storefront Stool Details

DRAWING NUMBER:

ADD-9

A-038

DATE:

03/03/19

SCALE:

3" = 1'-0"

REFERENCE:

Addendum #9

PROJECT TITLE:

CLIENT INFORMATION:
Worcester Public Schools



City of Worcester
Massachusetts, 01605

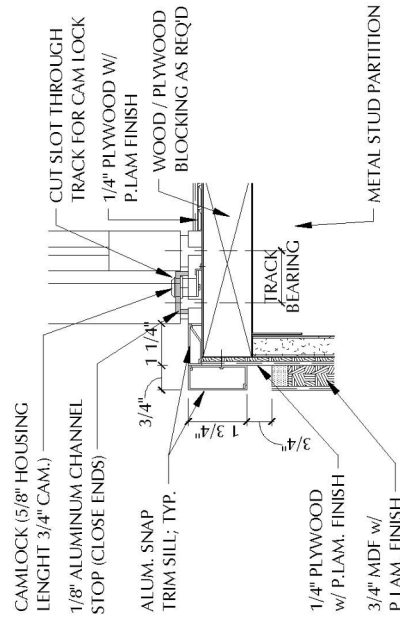


LAVOIE & ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS

South High Community School

170 Apricot Street, Worcester, MA 01603



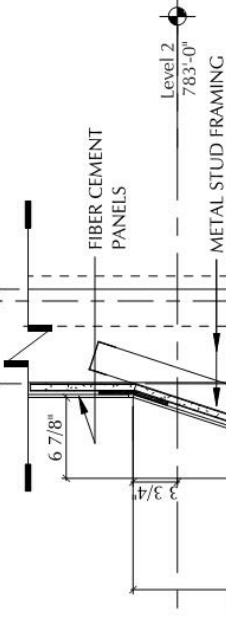
Display Case Sill Detail

2A
A8.28

Scale: 3" = 1'-0"

30

7"



Level 2
783'-0"

1'-9 1/4"

1'-3"

6 7/8"

3/8"

6 7/8"

1/4" PLYWD W/ P.LAM
FINISH AT JOINTS; TYP.

METAL STUD FRAMING

LINE OF CEILING, AS
OCCURS; SHOWN
DASHED

FIBER CEMENT PANELS

1/4" PLYWOOD W/
P.LAM FINISH

4 1/2"

3'-6 1/2"

CONTINUOUS
LIGHTING FIXTURE
AT HEAD OF SLIDING
DOORS; TYP.

CONTINUOUS ALUM.
TUBING STOPS

GLASS SHELVING

1/2" TACK PANEL;
FABRIC WRAPPED;
REAR SURFACE ONLY

AT SHELVING BAY;
SHELVING STANDARDS
BETWEEN TACK PANELS;
SEE PLAN DETAIL

11 1/2"

11

A8.26

1/2" TACK PANEL FASTENED W/
COUNTERSUNK MASONRY
ANCHORS; REAR & SIDE
SURFACES

GLASS SLIDING
DOOR HARDWARE
SYSTEM TYPE A

METAL STUD POCKET
AROUND COLUMNS
ONLY - REFER TO
PLAN DETAIL

2A
A8.28

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

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STRUCTURAL BRACE

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3/4"

3'-9"

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w/ P.LAM FINISH

6 1/8"

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WOOD CLEAT

STRUCTURAL BRACE

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11 5/8"

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3/4"

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w/ P.LAM FINISH

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TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

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3/4"

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3/4" MDF w/ P.LAM PANEL SYSTEM

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WOOD CLEAT

STRUCTURAL BRACE

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3/4" MDF w/ P.LAM PANEL SYSTEM

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3/4"

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PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

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TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

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11 5/8"

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PARTITION TO R.O.

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6 1/8"

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WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

3/4" MDF w/ P.LAM PANEL SYSTEM

3'-1 3/4"

3/4"

3'-9"

6" METAL STUD
PARTITION TO R.O.

1/4" PLYWOOD
w/ P.LAM FINISH

6 1/8"

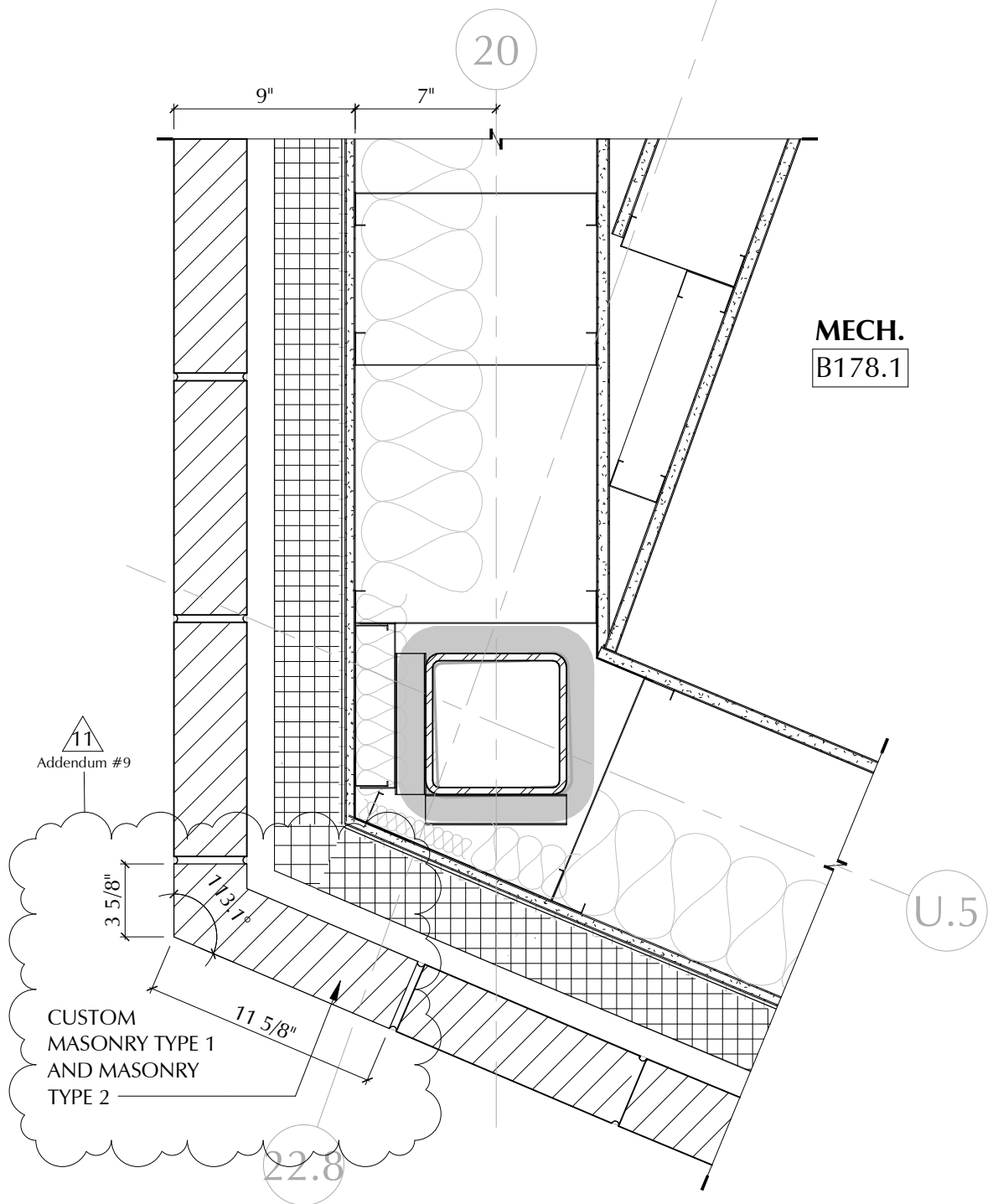
TERRAZZO BASE

WOOD CLEAT

STRUCTURAL BRACE

1'-3"

11 5/8"

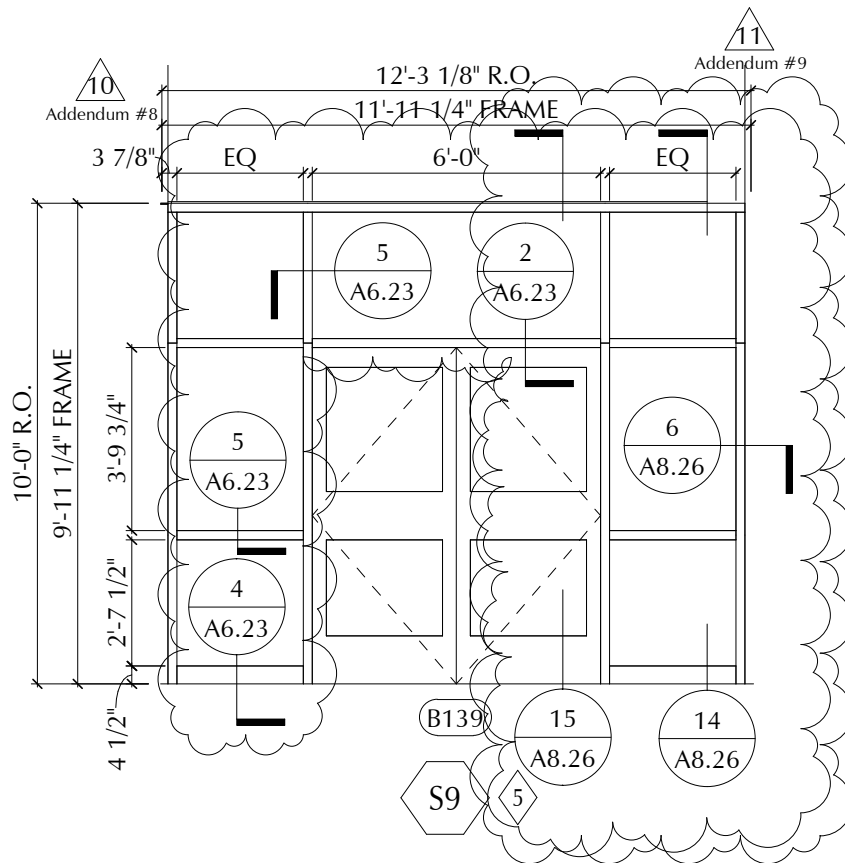


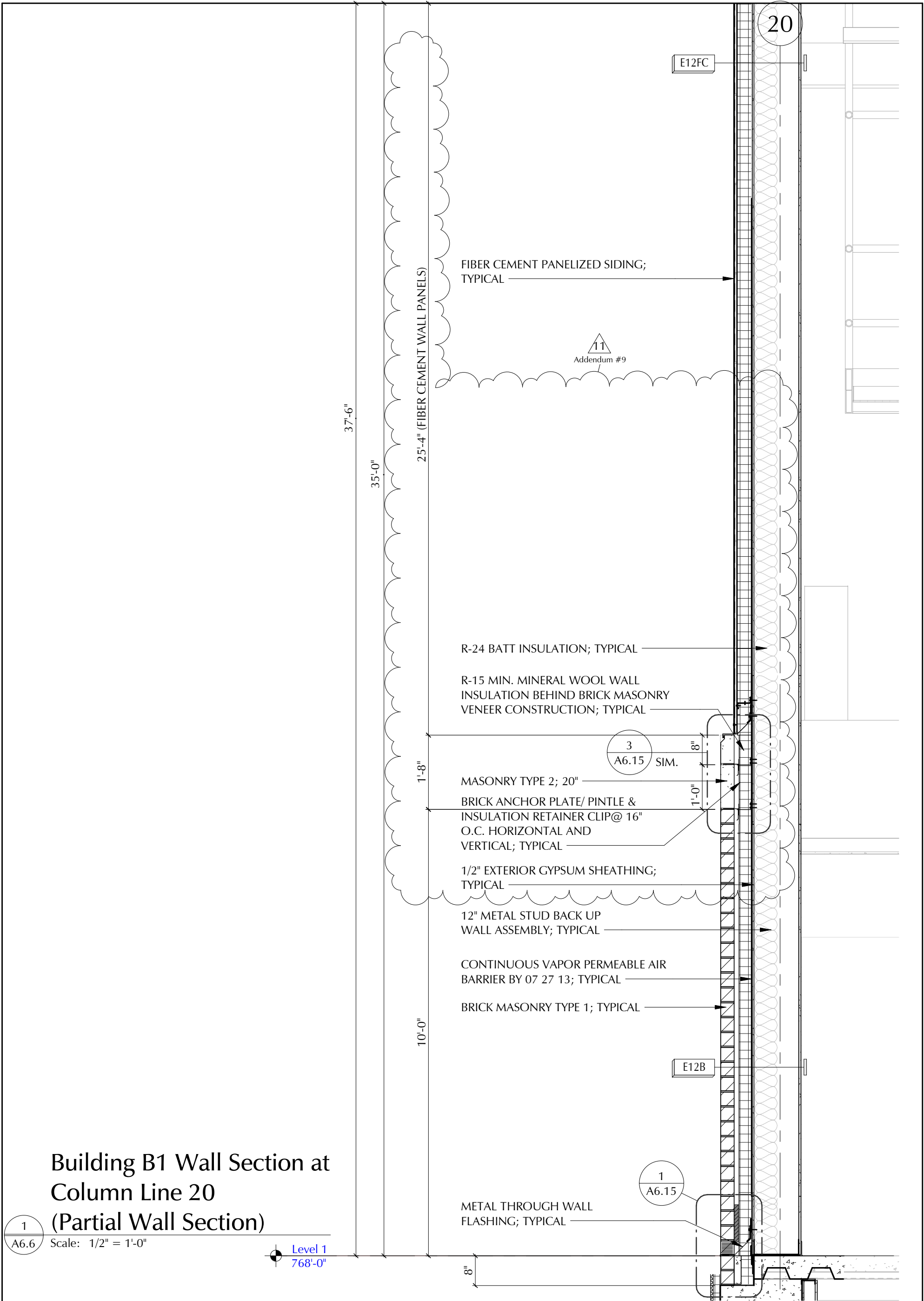
18
A6.13

Building B1 Level 1 Corner at Mech B178.1

Scale: 1 1/2" = 1'-0"







Building B1 Wall Section at
Column Line 20
(Partial Wall Section)

1
A6.6 Scale: 1/2" = 1'-0"

Level 1
768'-0"



CLIENT INFORMATION:
Worcester Public Schools



City of Worcester
Massachusetts, 01605

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:

Building B1 Wall Section at Column
Line 20 Revision

DATE:
03/05/19

SCALE:
1/2" = 1'-0"

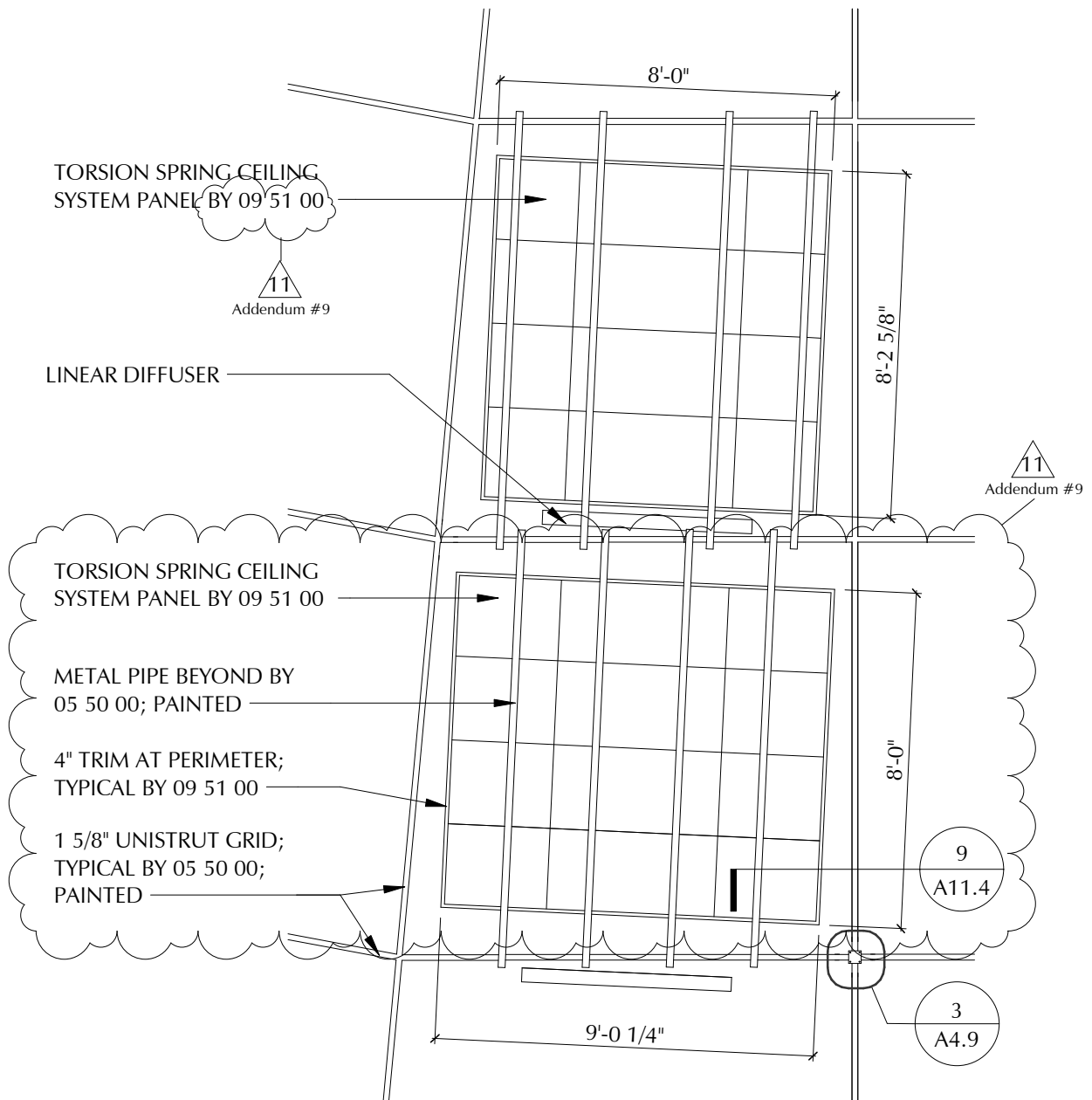
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SHEET REF. NO.

A6.6

DRAWING NUMBER:

ADD-9
A-042

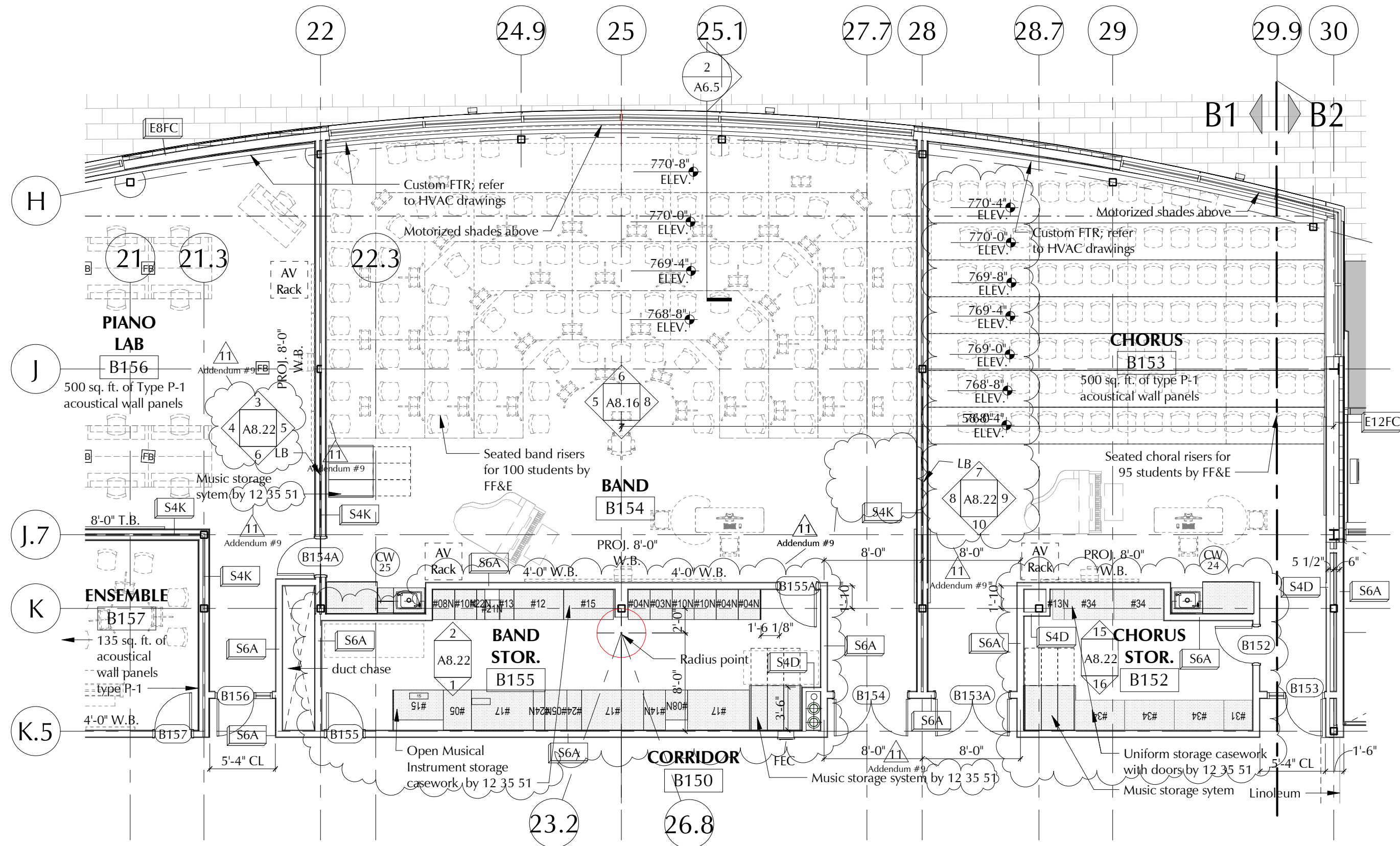


2
A4.9

Partial Aud. Reflected Ceiling Plan

Scale: 1/4" = 1'-0"





5 Partial First Floor Plan - Section B1
A3.5 Scale: 1/8" = 1'-0"

<p>CLIENT INFORMATION:</p> <p>Worcester Public Schools</p> <p>City of Worcester Massachusetts, 01605</p>	<p>PROJECT TITLE:</p> <p>South High Community School</p>	<p>DRAWING NAME:</p> <p>Music Suite Clarifications</p>	<p>SHEET REF. NO.:</p> <p>A3.5</p>
		<p>DRAWING NUMBER:</p> <p>ADD-9</p> <p>A-044</p>	<p>DATE:</p> <p>03/06/19</p> <p>SCALE:</p> <p>1/8" = 1'-0"</p>

THE AMERICAN INSTITUTE OF ARCHITECTS

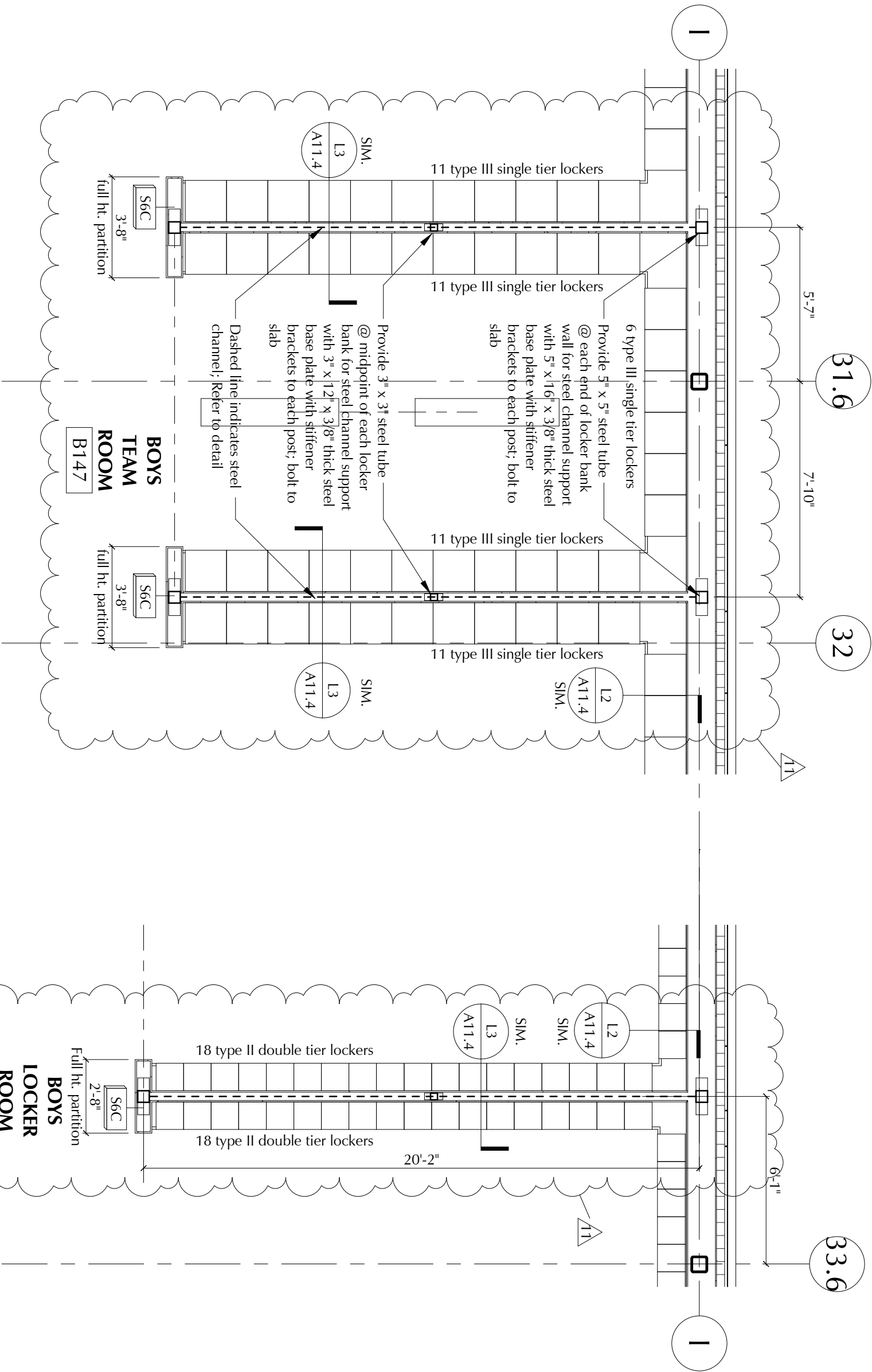
MEMBER OF

108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

LABOURUS PACHINO ASSOCIATES ARCHITECTS

108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

170 Apricot Street, Worcester, MA 01603

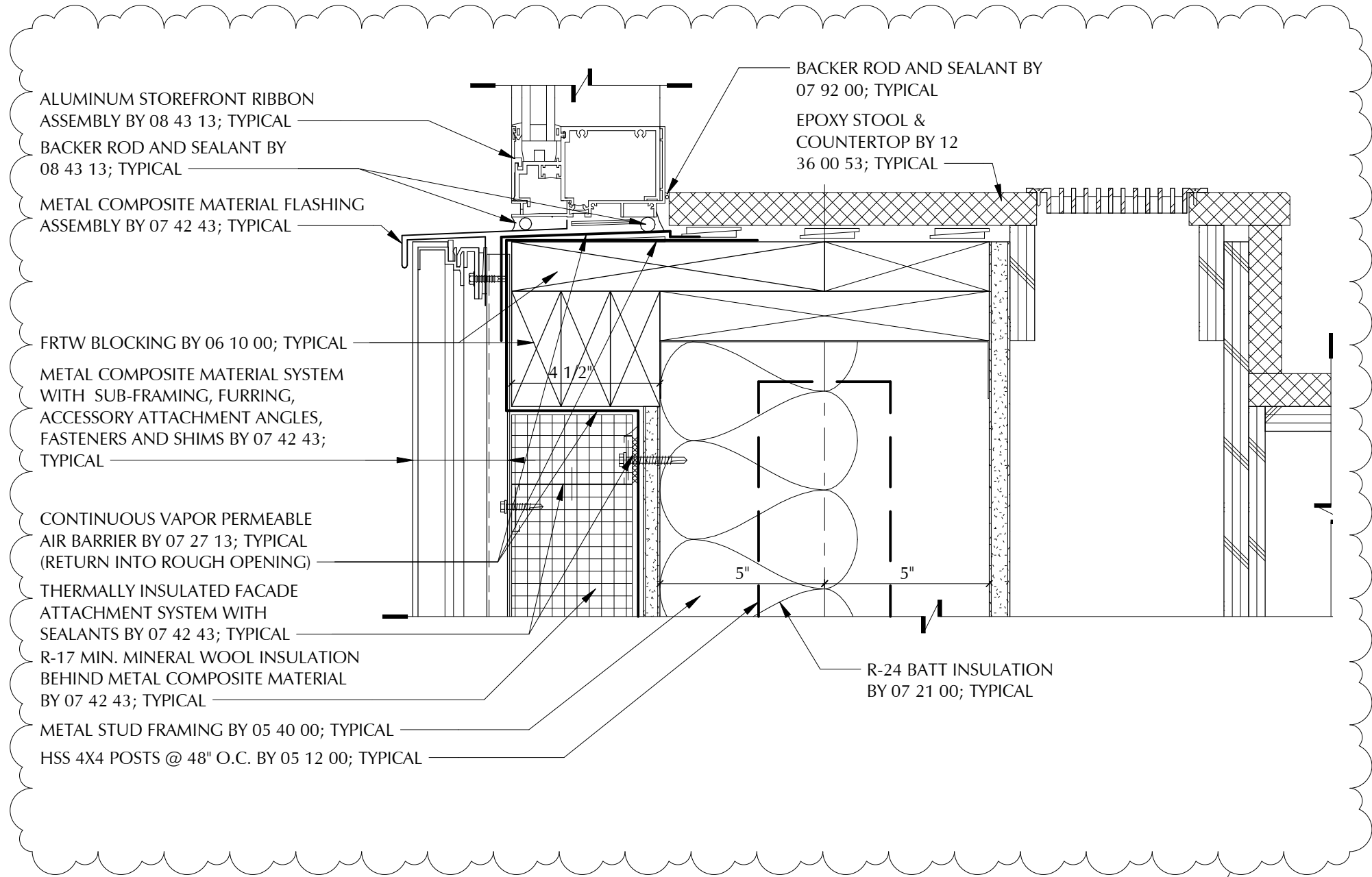


NOTES SIMILAR TO BOYS TEAM ROOM B147

Enlarged Plan @ Boys Team Room / Boys Locker Room.

Scale: 1/4" = 1'-0"

GIRLS TEAM ROOM B141 and GIRLS LOCKER ROOM B142 SIMILAR



4
A6.28


Storefront Ribbon Sill at Composite Metal Panel


Scale: 3" = 1'-0"

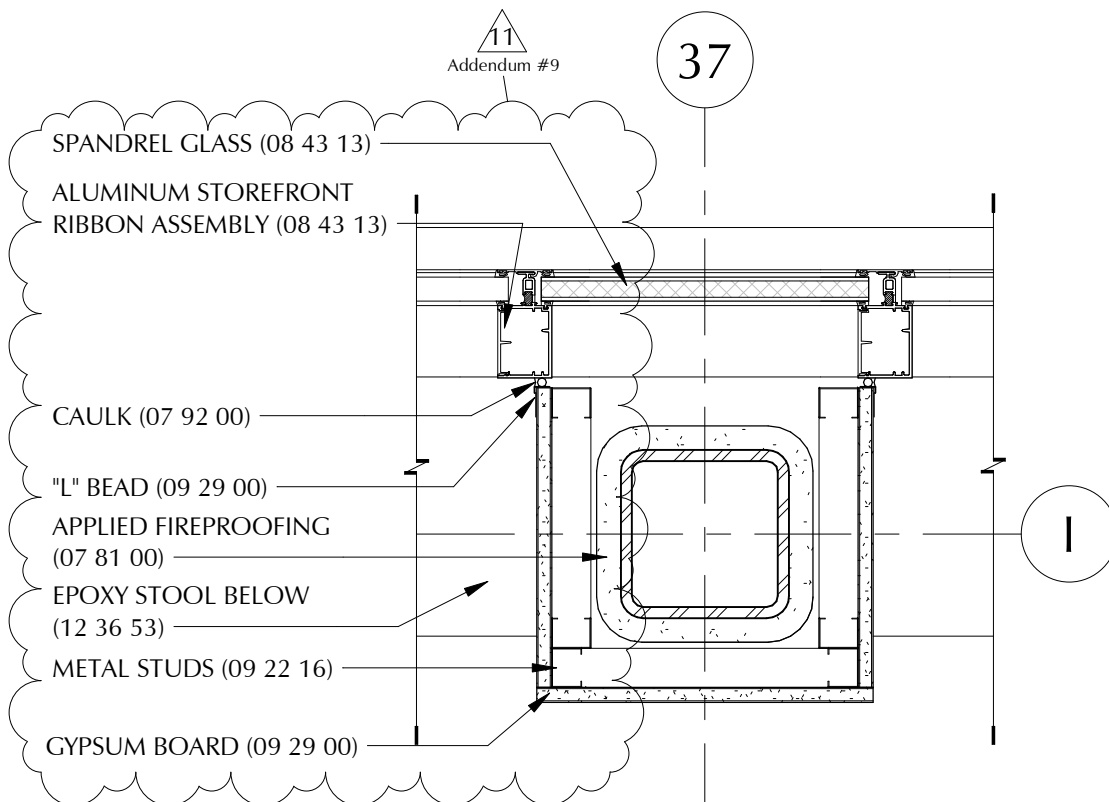
11
Addendum #9

DRAWING NAME:	SHEET REF. NO.	
	Storefront Ribbon Sill at Composite Metal Panel Revision	A6.28
DATE:	DRAWING NUMBER:	
	03/06/19	ADD-9
SCALE:	3" = 1'-0"	
REFERENCE:	Addendum #9	

PROJECT TITLE:	
South High Community School	
170 Apricot Street, Worcester, MA 01603	

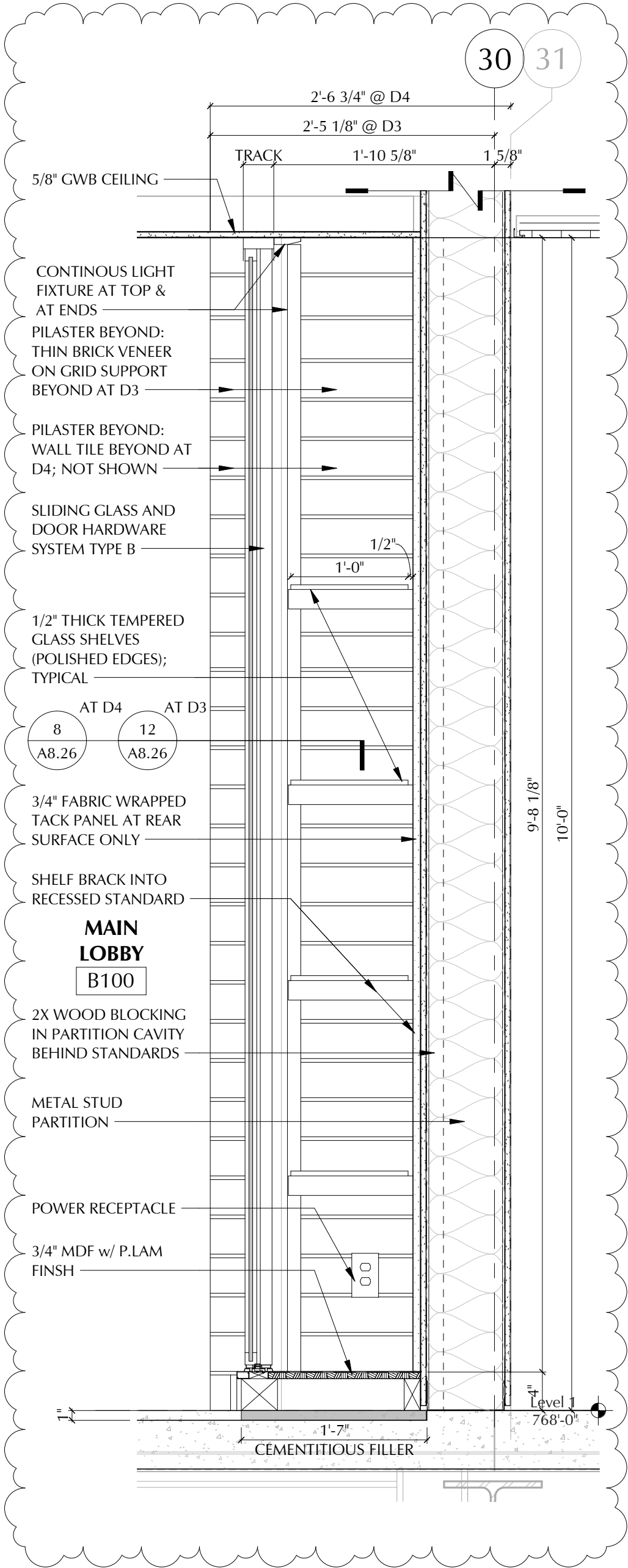
CLIENT INFORMATION:	
Worcester Public Schools	
	
City of Worcester, Massachusetts, 01605	

	
LAVOIE & ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605	
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	



5 Storefront Ribbon Jamb at Spandrel Glass Mullion

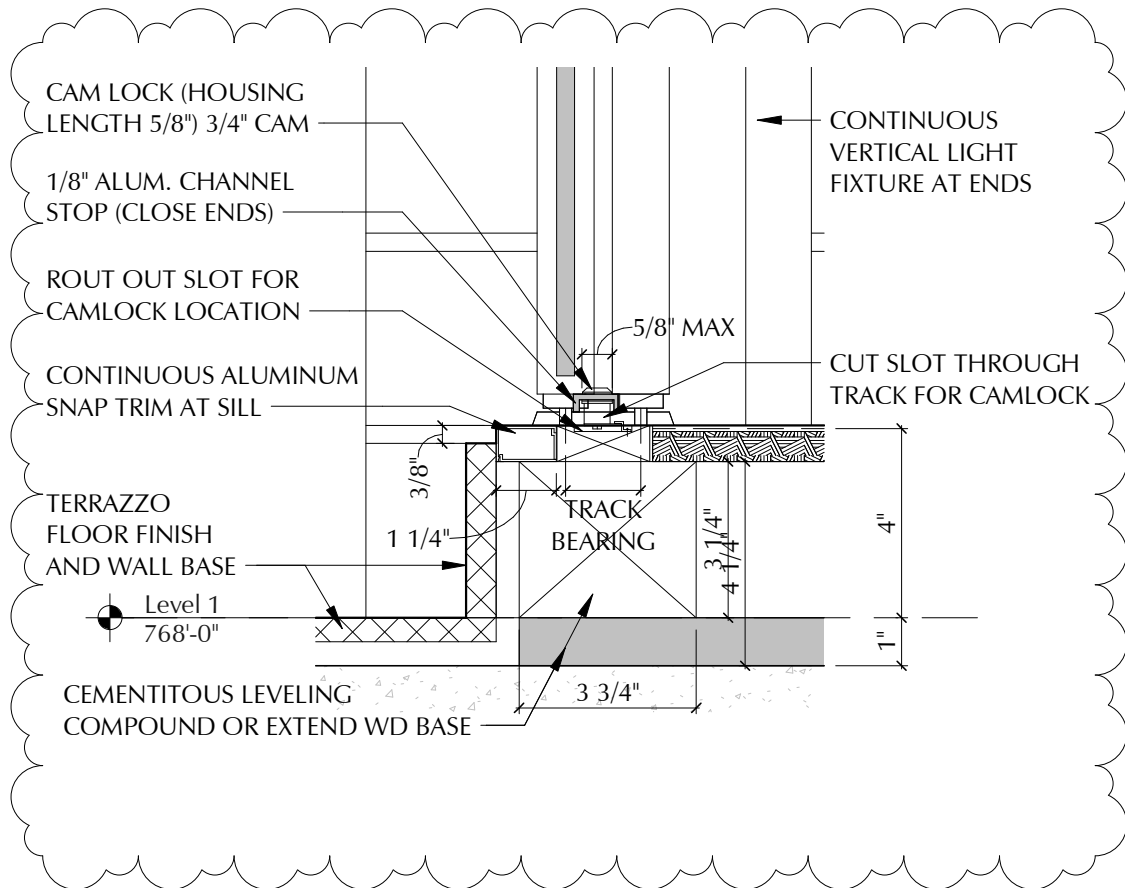
A6.28 Scale: 1 1/2" = 1'-0"



3
A8.28

Display Case D3 (D4 Sim. at C.L. 31)

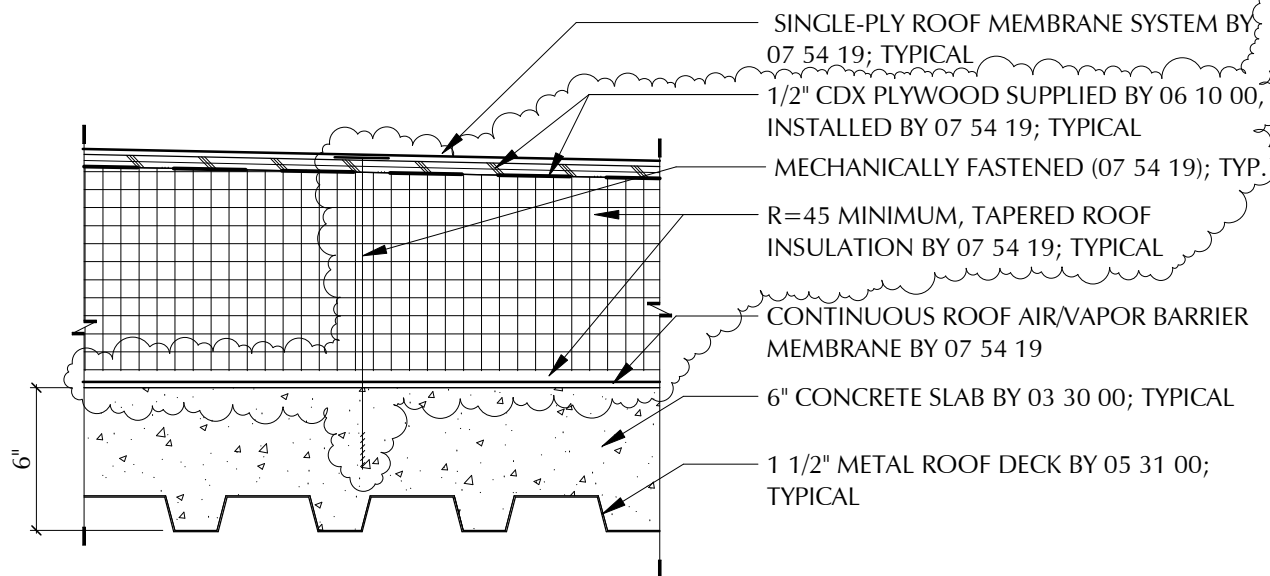
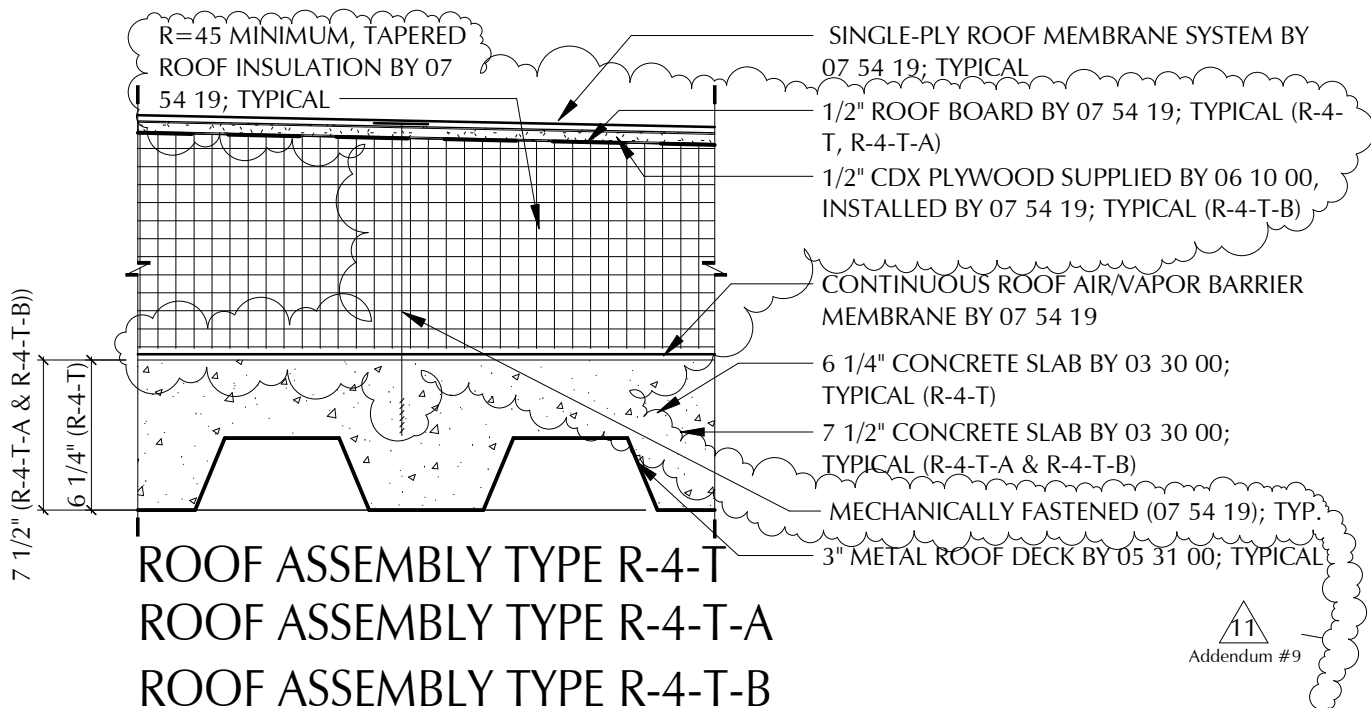
Scale: 1" = 1'-0"



3A
A8.28

Display Case Sill Detail (D3 & D4) ADD9 SSK

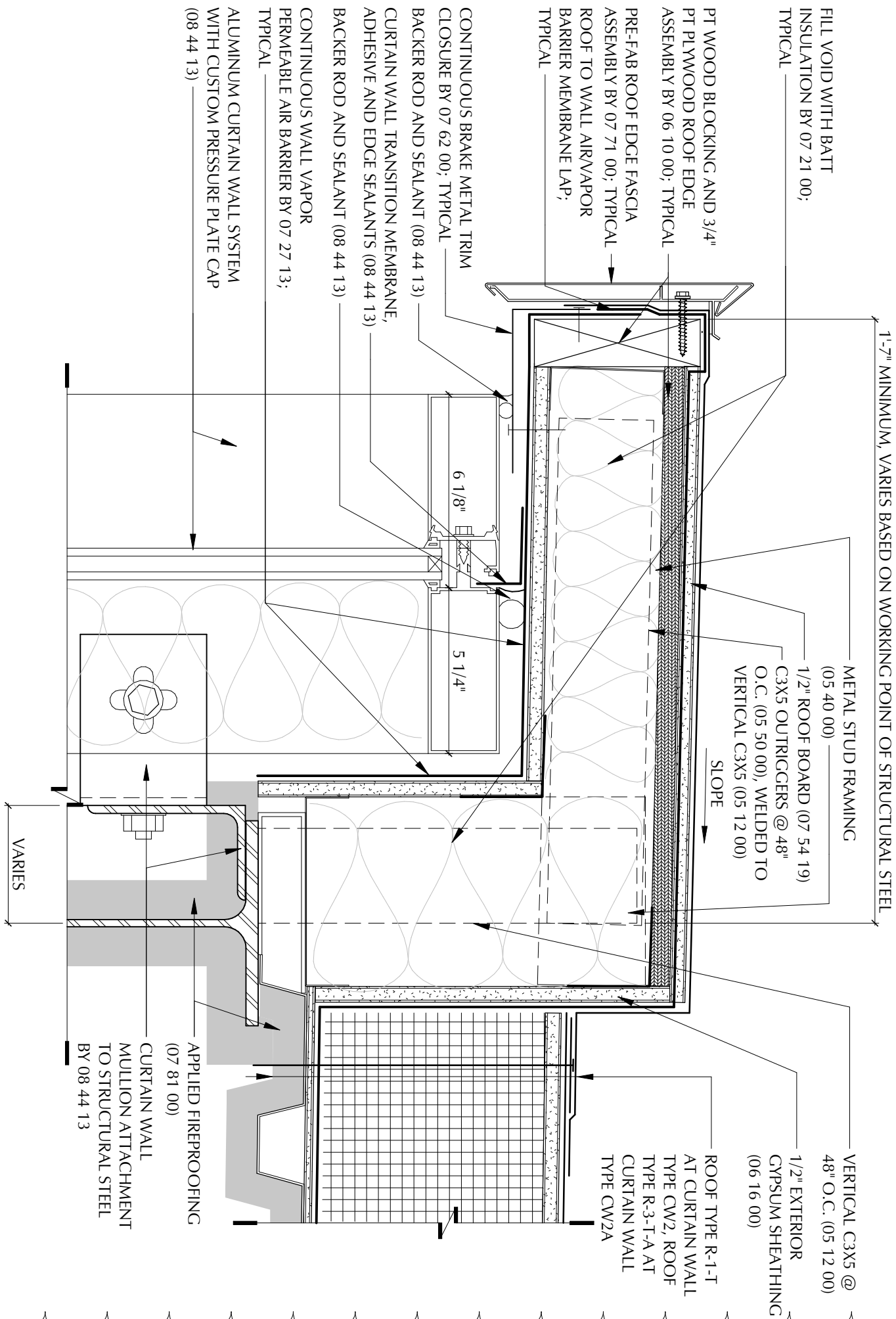
Scale: 3" = 1'-0"



ROOF ASSEMBLY TYPE R-5-T

2 Partial Roof Assembly Types

A3.13 Scale: 1 1/2" = 1'-0"



15
A6.29 Scale: 3" = 1'-0"

Curtain Wall CW2 Head at Roof Edge (CW2A Similar)

SHEET REF. NO.

DRAWING NAME:

Curtain Wall CW2 Head at Roof Edge

DATE:
03/06/19

SCALE:
3" = 1'-0"

REFERENCE:
Addendum #9

DRAWING NUMBER:

ADD-9
A-052

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:

Worcester Public Schools

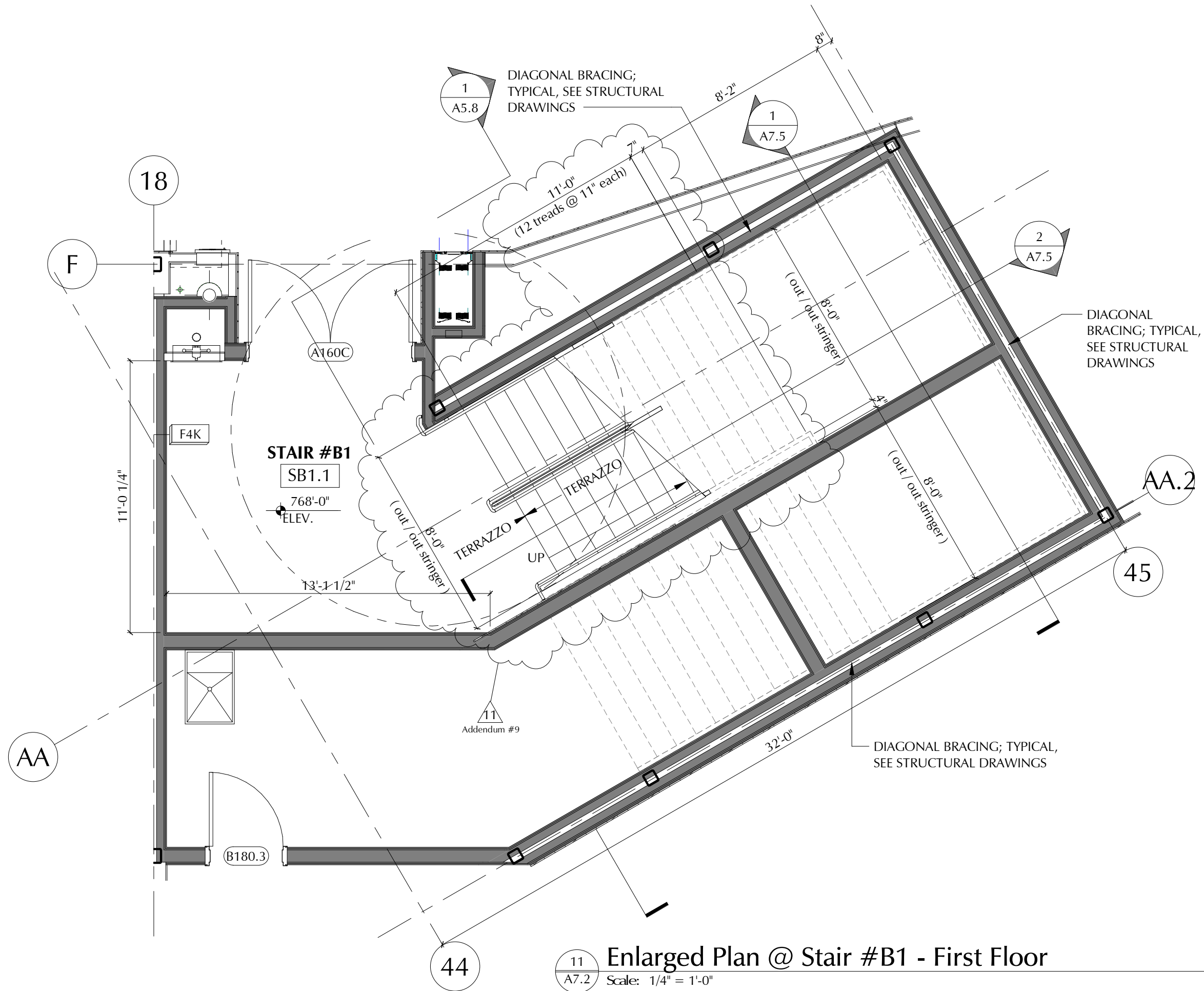


City of Worcester
Massachusetts, 01605



LAMOURLOUX PAGANO
ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

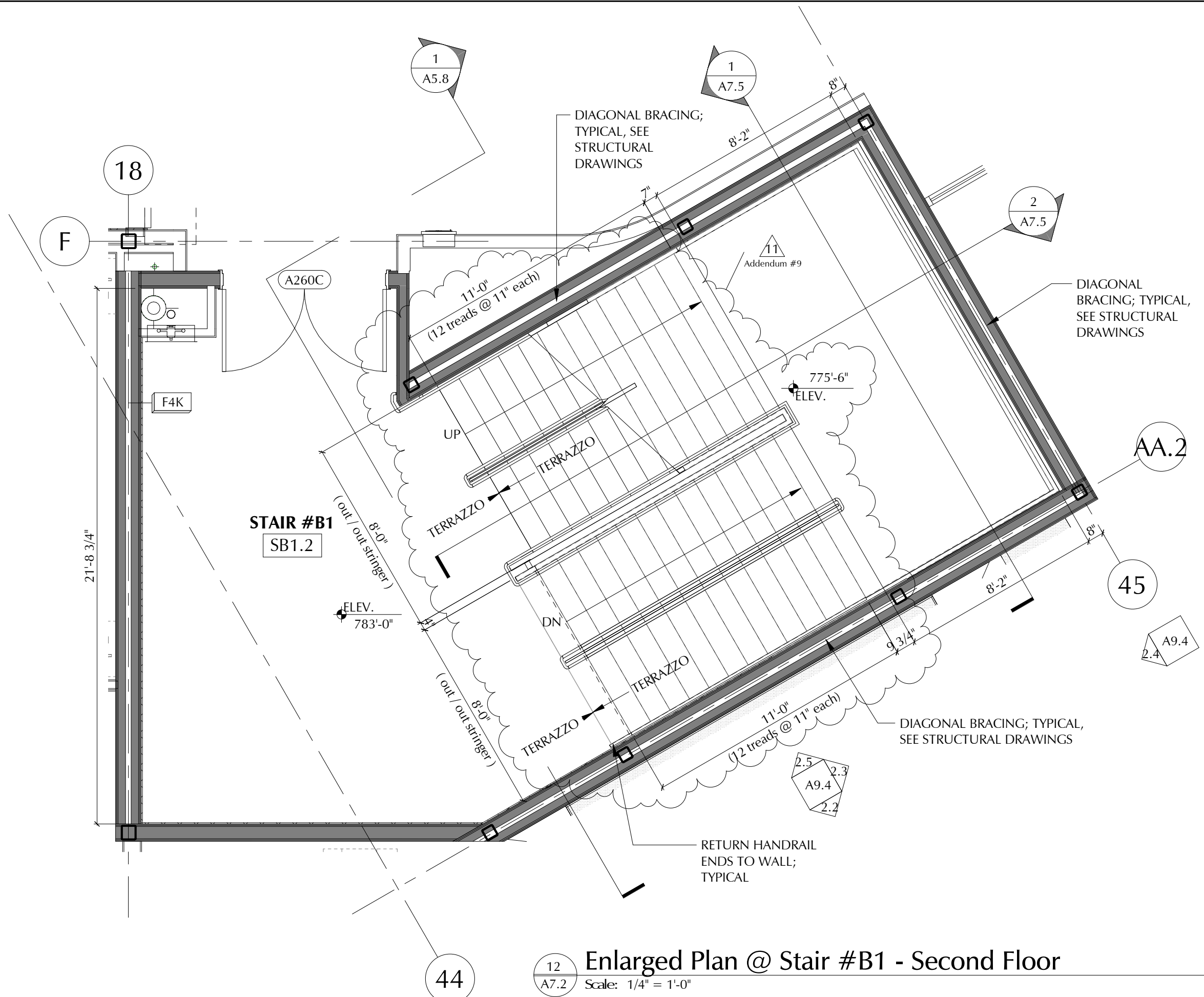
MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS



Enlarged Plan @ Stair #B1 - First Floor

Scale: 1/4" = 1'-0"

 LAVOIE & ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605	CLIENT INFORMATION: Worcester Public Schools		 City of Worcester Massachusetts, 01605	PROJECT TITLE: South High Community School 170 Apricot Street, Worcester, MA 01603		DRAWING NAME: Enlarged Plan @ Stair #B1 - First Floor		SHEET REF. NO. ADD-9 A-053	
				DATE: 03/06/19		DRAWING NUMBER:			
				SCALE: 1/4" = 1'-0"					



12
A7.2

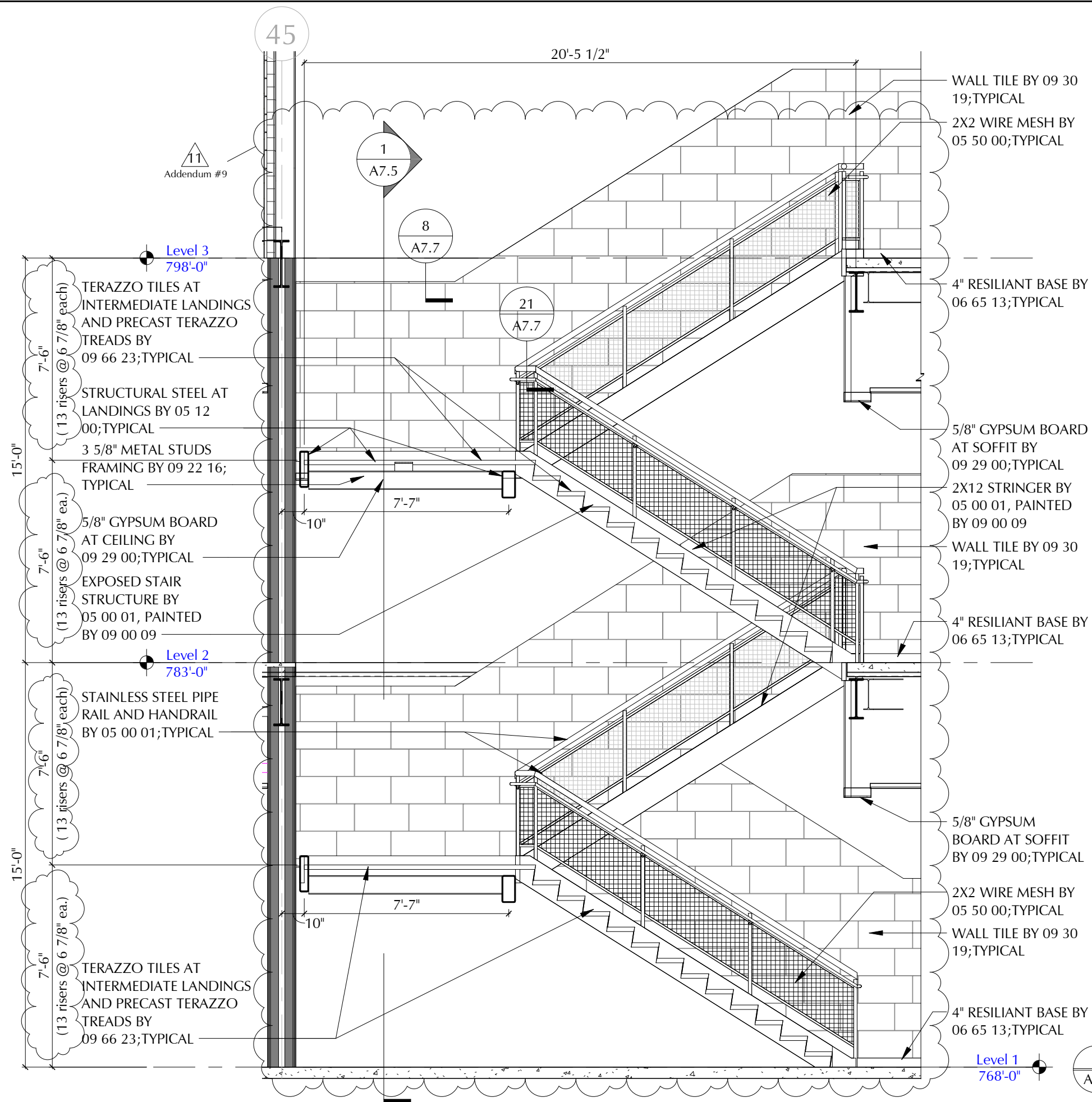
Enlarged Plan @ Stair #B1 - Second Floor

Scale: 1/4" = 1'-0"

CLIENT INFORMATION: Worcester Public Schools	DRAWING NAME: Enlarged Plan @ Stair #B1 - Second Floor	SHEET REF. NO.:
	DRAWING NUMBER: ADD-9	DRAWING NUMBER: A-054
 City of Worcester Massachusetts, 01605	DATE: 03/06/19	SCALE: 1/4" = 1'-0"
	 LAVOIE & ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605	

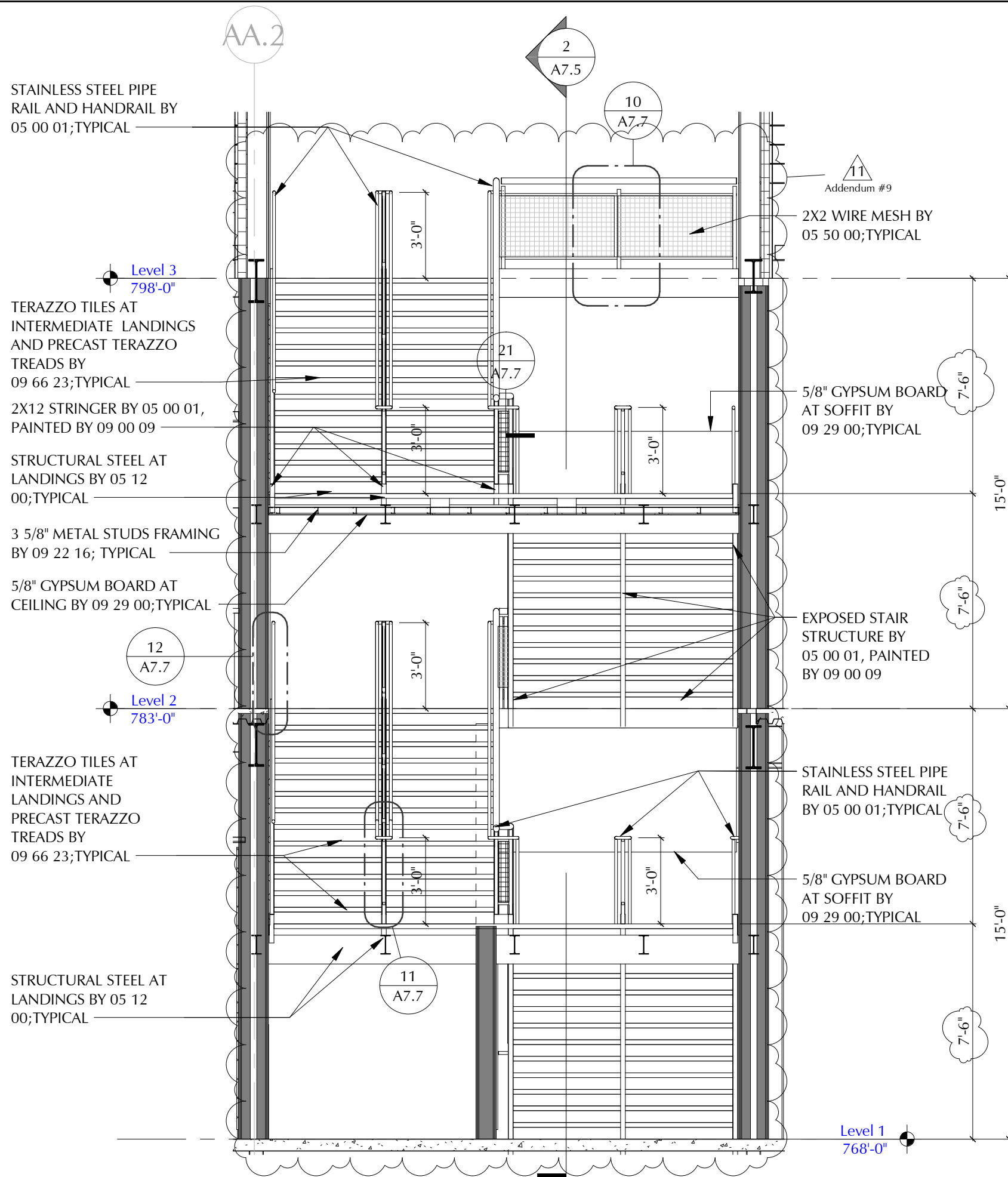
PROJECT TITLE:
South High Community School

170 Apricot Street, Worcester, MA 01603






Stair #B1 Section E-W
Scale: 1/4" = 1'-0"

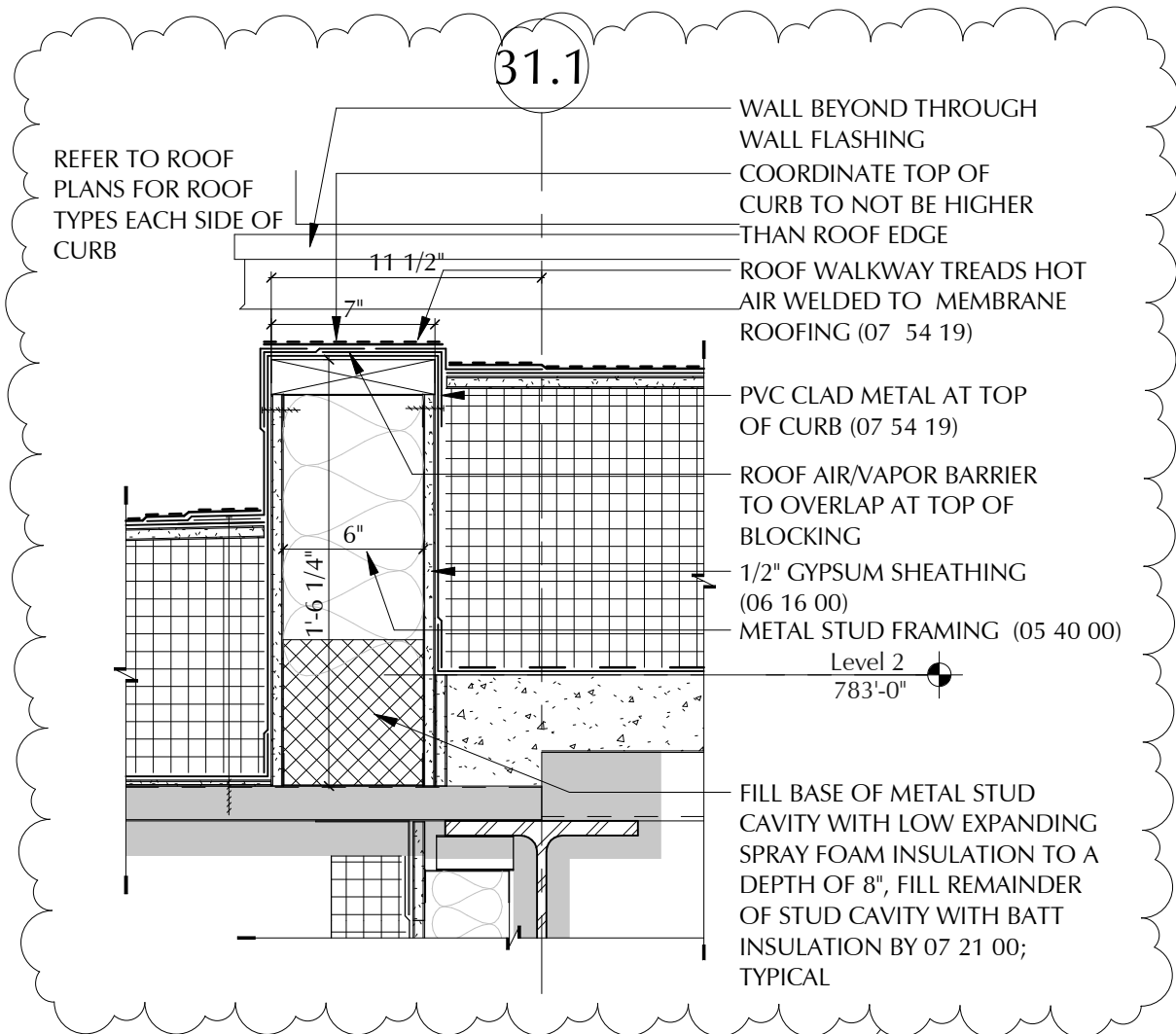
CLIENT INFORMATION: Worcester Public Schools	PROJECT TITLE: South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NUMBER: ADD-9 A-056	SHEET REF. NO.:
MEMBER OF: THE AMERICAN INSTITUTE OF ARCHITECTS	DATE: 03/06/19 SCALE: 1/4" = 1'-0"	DRAWING NAME: Stair #B1 Section E-W	SHEET REF. NO.:



1
A7.5

Stair #B1 Section N-S
Scale: 1/4" = 1'-0"

<div><div></div><div><div>LANOULLUX PAGANIO ASSOCIATES, ARCHITECTS</div><div>108 GORIE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605</div></div><div><div>MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS</div></div></div> <td><div>CLIENT INFORMATION: Worcester Public Schools</div><div></div><div>City of Worcester Massachusetts, 01605</div></td> <td>PROJECT TITLE: </td>	<div>CLIENT INFORMATION: Worcester Public Schools</div> <div></div> <div>City of Worcester Massachusetts, 01605</div>	PROJECT TITLE:
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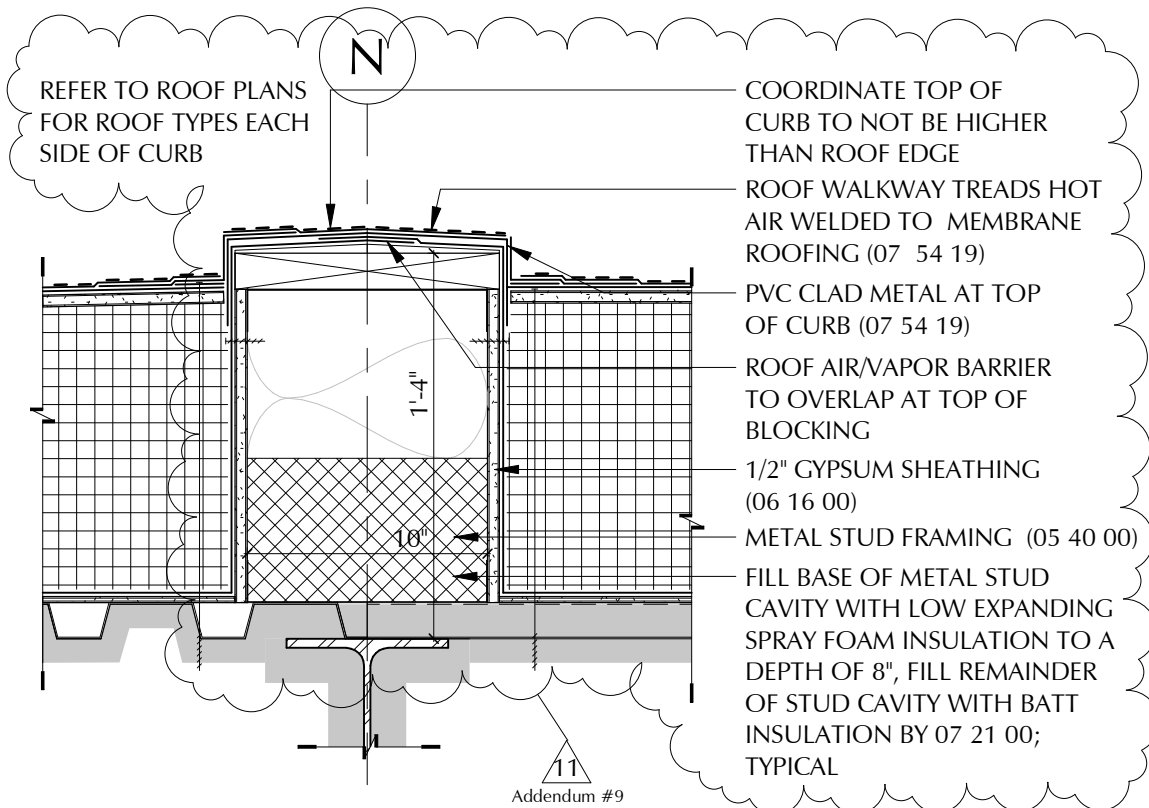


Building B2 Roof Detail at Column Line 31.1

6
A6.34

Scale: 1 1/2" = 1'-0"

11
Addendum #9

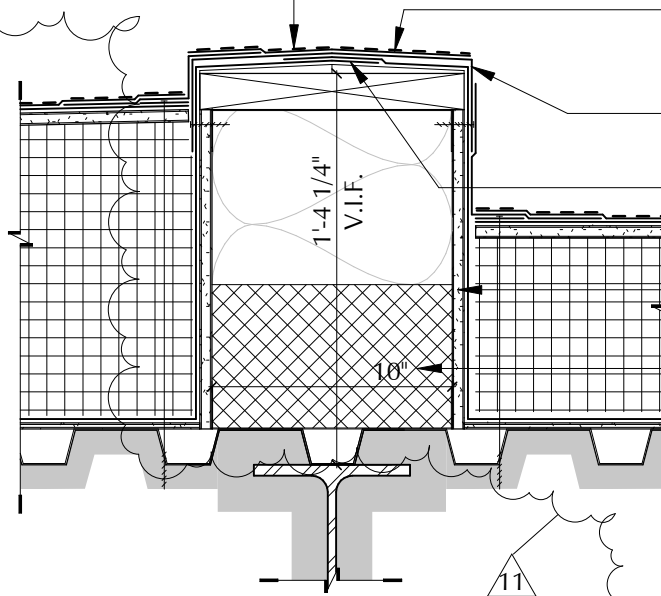


Building B2 Roof Separation Curb at Column Line N

3
A6.34

Scale: 1 1/2" = 1'-0"

REFER TO ROOF PLANS
FOR ROOF TYPES EACH
SIDE OF CURB



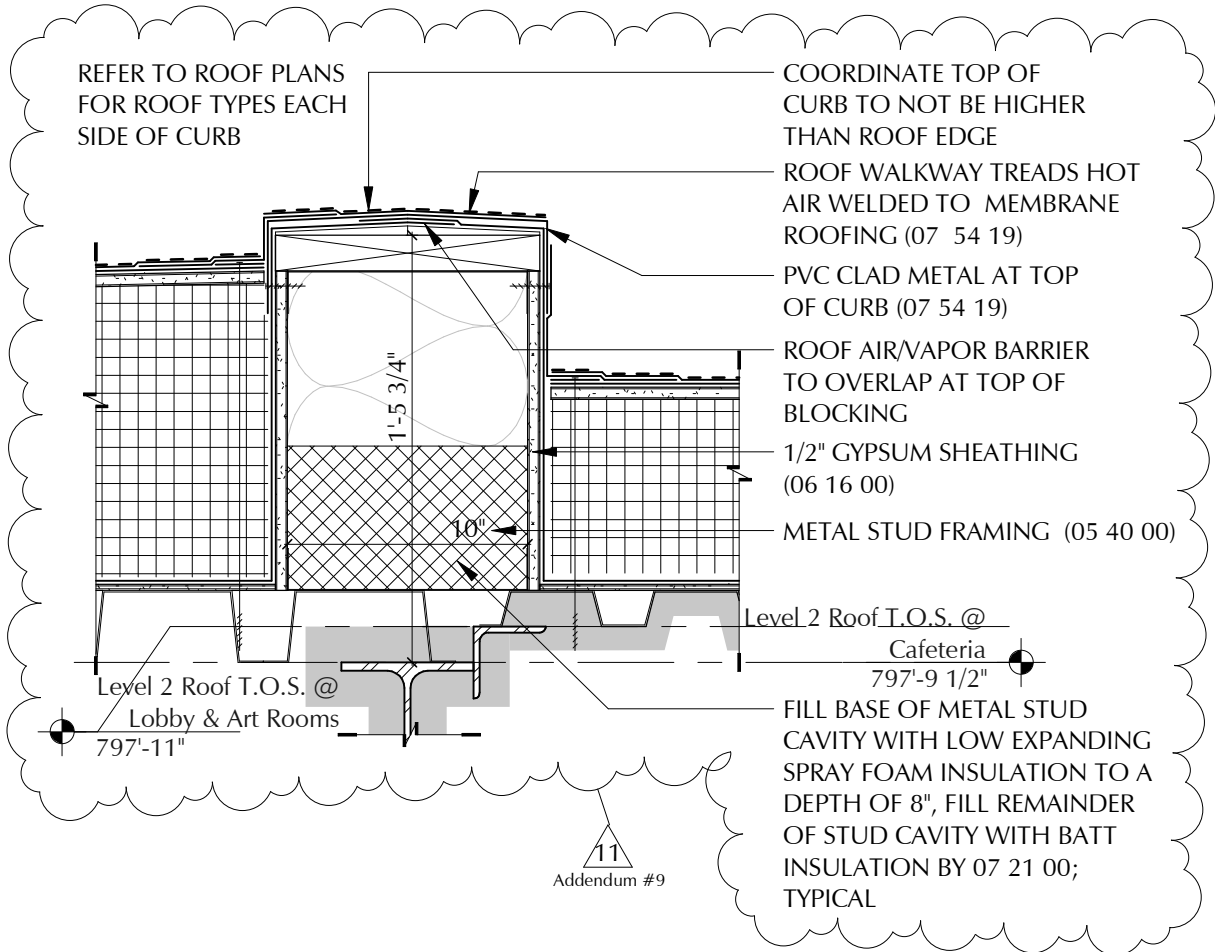
11
Addendum #9

COORDINATE TOP OF
CURB TO NOT BE HIGHER
THAN ROOF EDGE
ROOF WALKWAY TREADS HOT
AIR WELDED TO MEMBRANE
ROOFING (07 54 19)
PVC CLAD METAL AT TOP
OF CURB (07 54 19)
ROOF AIR/VAPOR BARRIER
TO OVERLAP AT TOP OF
BLOCKING
1/2" GYPSUM SHEATHING
(06 16 00)
METAL STUD FRAMING (05 40 00)
FILL BASE OF METAL STUD
CAVITY WITH LOW EXPANDING
SPRAY FOAM INSULATION TO A
DEPTH OF 8", FILL REMAINDER
OF STUD CAVITY WITH BATT
INSULATION BY 07 21 00;
TYPICAL

Building AB Roof Separation Curb at Column Line AA.2

4
A6.34

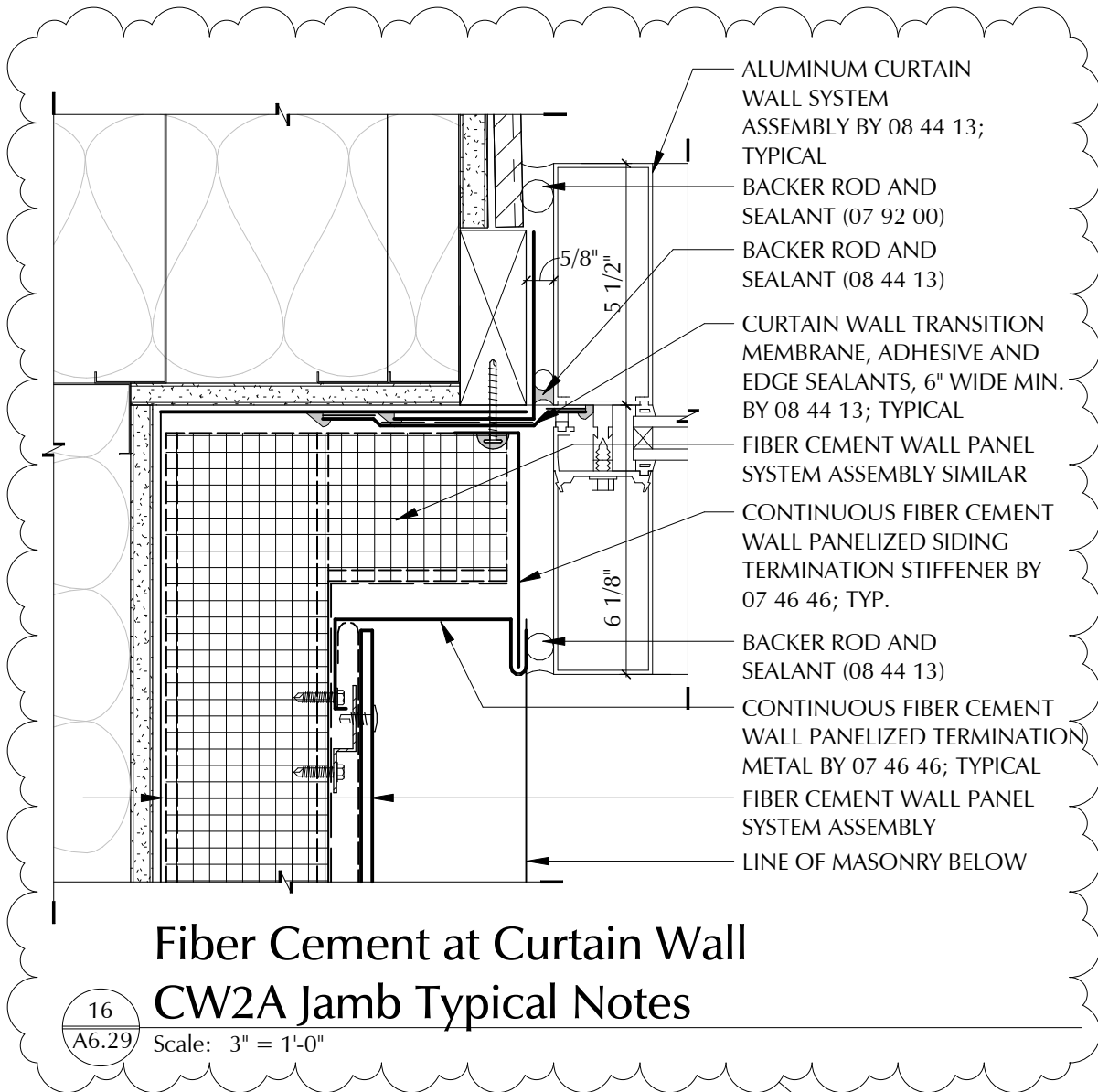
Scale: 1 1/2" = 1'-0"



Building AB Roof Separation Curb at Column Line 33

5
A6.34

Scale: 1 1/2" = 1'-0"



11
Addendum #9

ALUMINUM CURTAIN WALL SYSTEM ASSEMBLY WITH
CUSTOM PRESSURE PLATE SILL CAP BY 08 44 13; TYPICAL

CURTAIN WALL TRANSITION MEMBRANE, ADHESIVE
AND EDGE SEALANTS, 6" WIDE MIN. BY 08 44 13; TYP.

BACKER ROD AND SEALANT BY 08 44 13,
WEEP AT 12" O.C.; TYPICAL

METAL THROUGH WALL (SILL)
FLASHING WITH HEMMED
EDGE (08 44 13); TYP.

CONTINUOUS METAL AIR
BARRIER TRANSITION SEALED TO
THROUGH WALL FLASHING

BACKER ROD AND
SEALANT (07 92 00)

PIECE 2 METAL THROUGH
WALL FLASHING

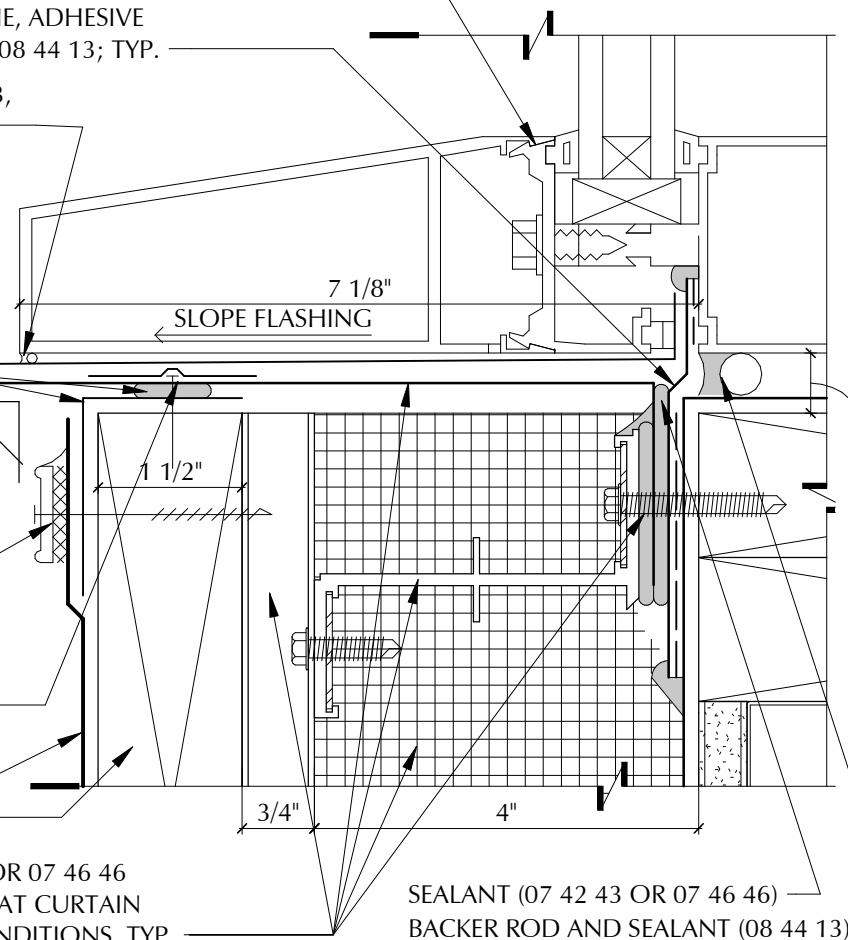
TERMINATION BAR AND
SEALANT (07 54 19)

FASTEN THROUGH WALL FLASHING
TO METAL AIR BARRIER
TRANSITION SEAL FASTENER HEADS

SINGLE-PLY ROOF MEMBRANE
SYSTEM (07 54 19)

PT WOOD BLOCKING (06 10 00)

ASSEMBLY COMPONENTS BY 07 42 43 OR 07 46 46
DEPENDING ON ADJACENT WALL TYPE AT CURTAIN
WALL JAMB, SEE NOTES AT SIMILAR CONDITIONS, TYP.

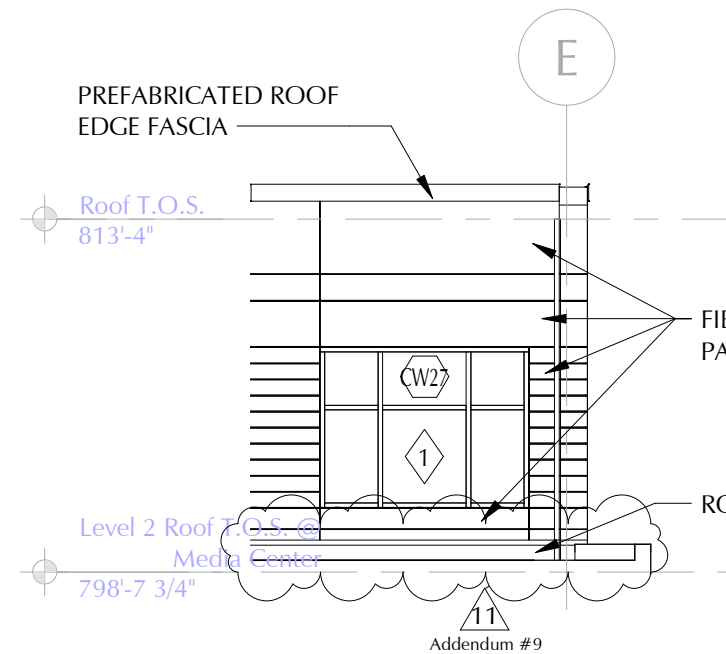


11
Addendum #9

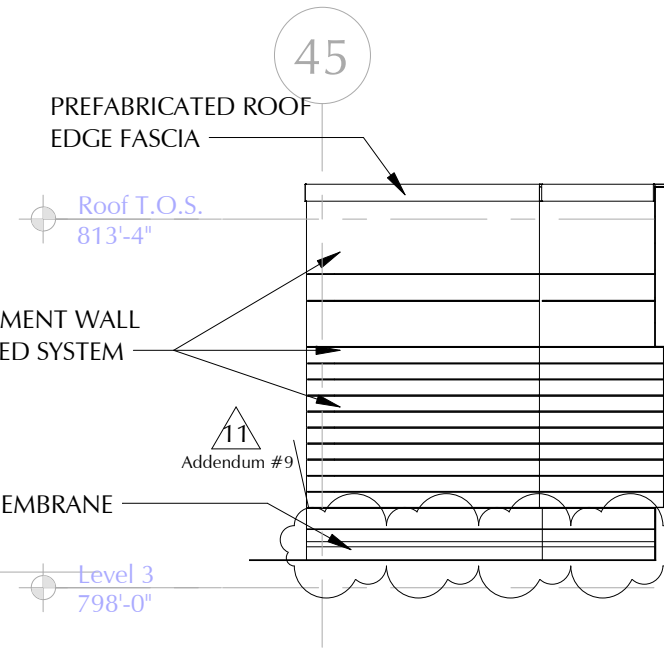
14

Roofing to Curtain Wall Sill

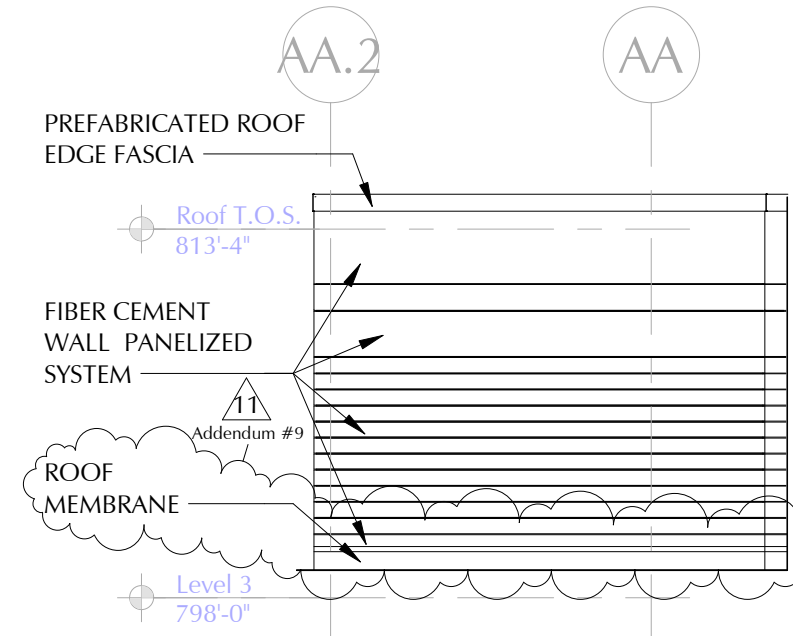
A6.26 Scale: 6" = 1'-0"



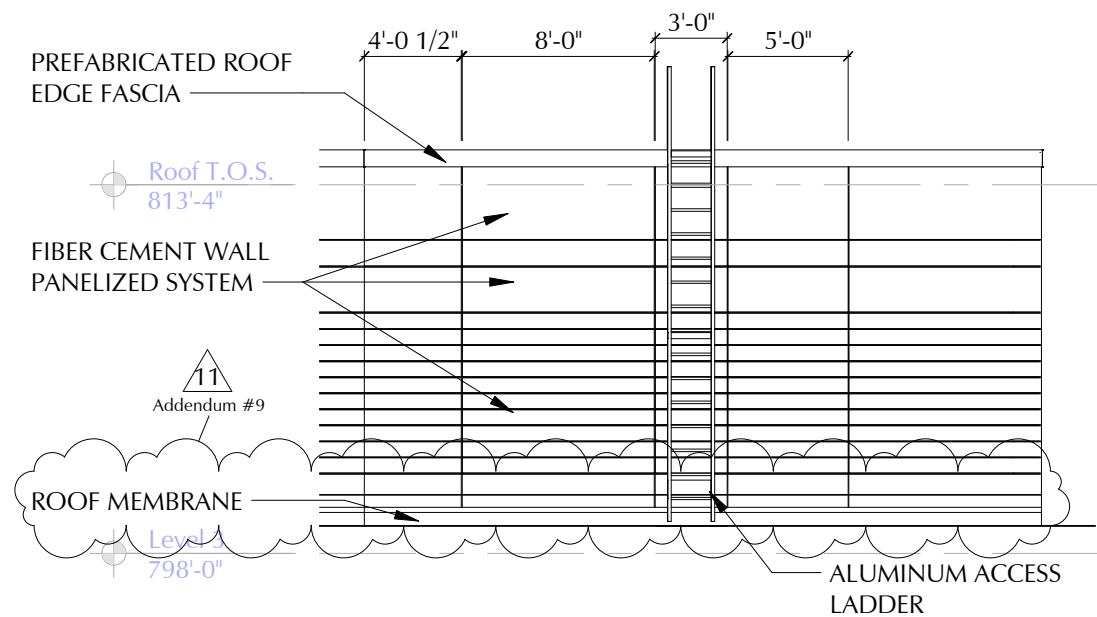
8C
A5.2 Partial East Elev. - Third Level
Scale: 1/8" = 1'-0"



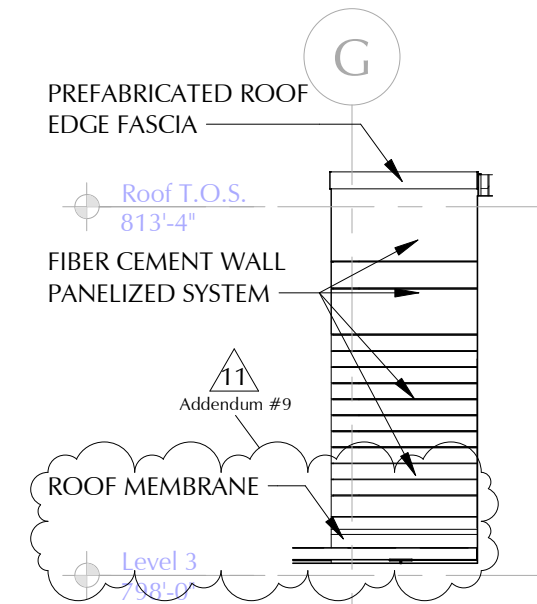
8D
A5.2 Partial North Elev. - Stair #B1
Scale: 1/8" = 1'-0"





8E
A5.2 Partial East Elevation - Stair #B1
Scale: 1/8" = 1'-0"

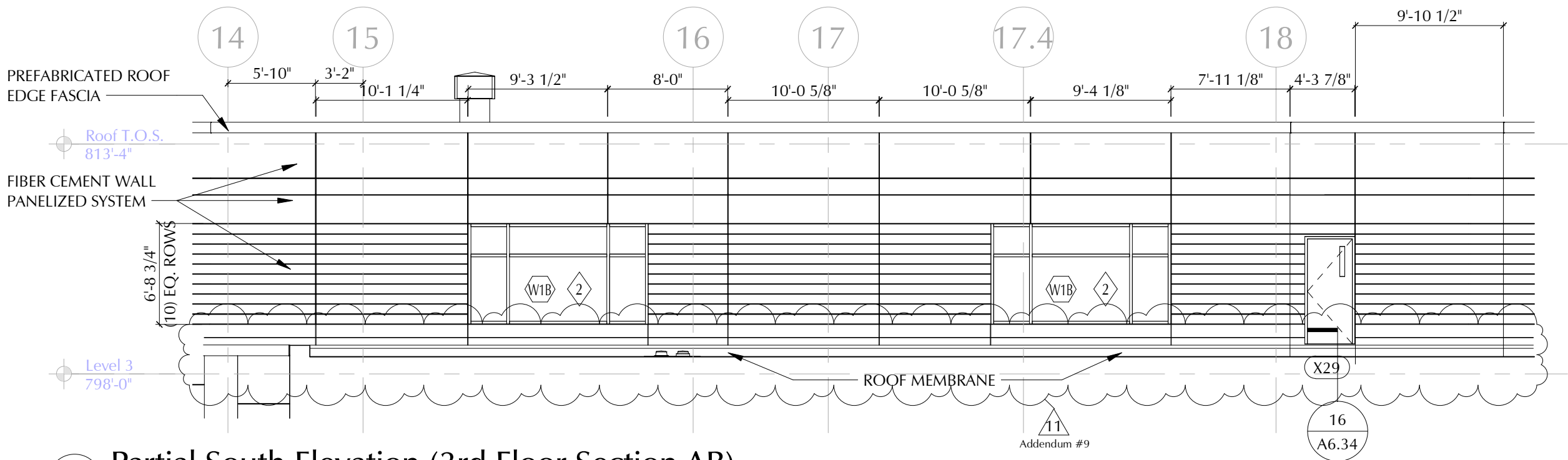


8H
A5.2 Partial South Elev. - 3rd Floor
Scale: 1/8" = 1'-0"



8F
A5.2 Partial East Elev. - 3rd Floor
Scale: 1/8" = 1'-0"

DRAWING NAME: Partial Elevations - Third Level	SHEET REF. NO. A5.2
	DRAWING NUMBER: ADD-9 A-064
DATE: 03/07/19	REFERENCE: Addendum #9
SCALE: 1/8" = 1'-0"	
PROJECT TITLE: South High Community School	
CLIENT INFORMATION: Worcester Public Schools	
 City of Worcester Massachusetts, 01605	
 LAMOURUX PACANO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	



8G
A5.2

Partial South Elevation (3rd Floor Section AB)

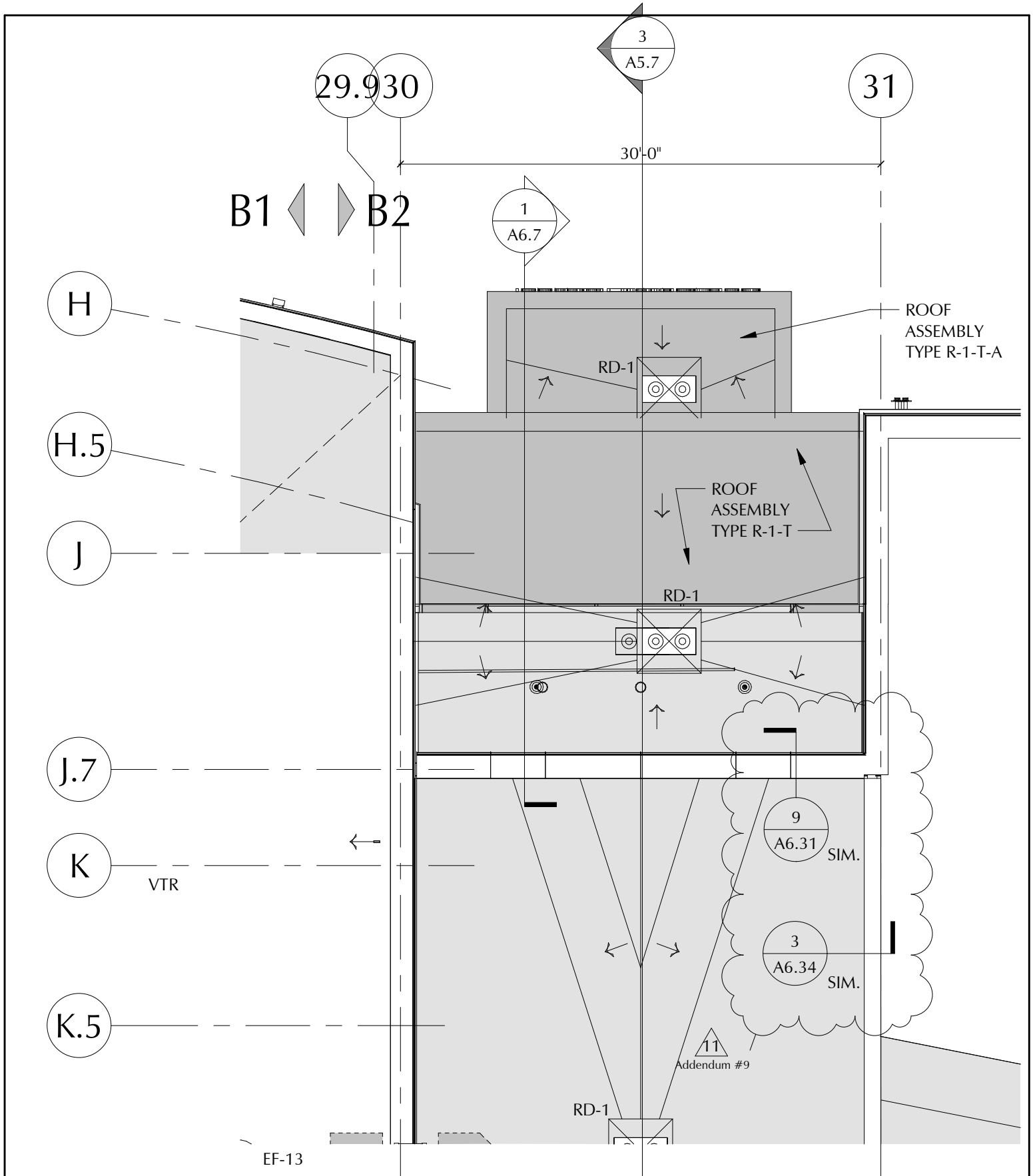
Scale: 1/8" = 1'-0"



DRAWING NAME:		SHEET REF. NO.
Partial South Elevation (3rd Floor Section AB) Revisions		A5.2
DRAWING NUMBER:		
DATE:	03/07/19	ADD-9
SCALE:	1/8" = 1'-0"	A-065
REFERENCE:	Addendum #9	

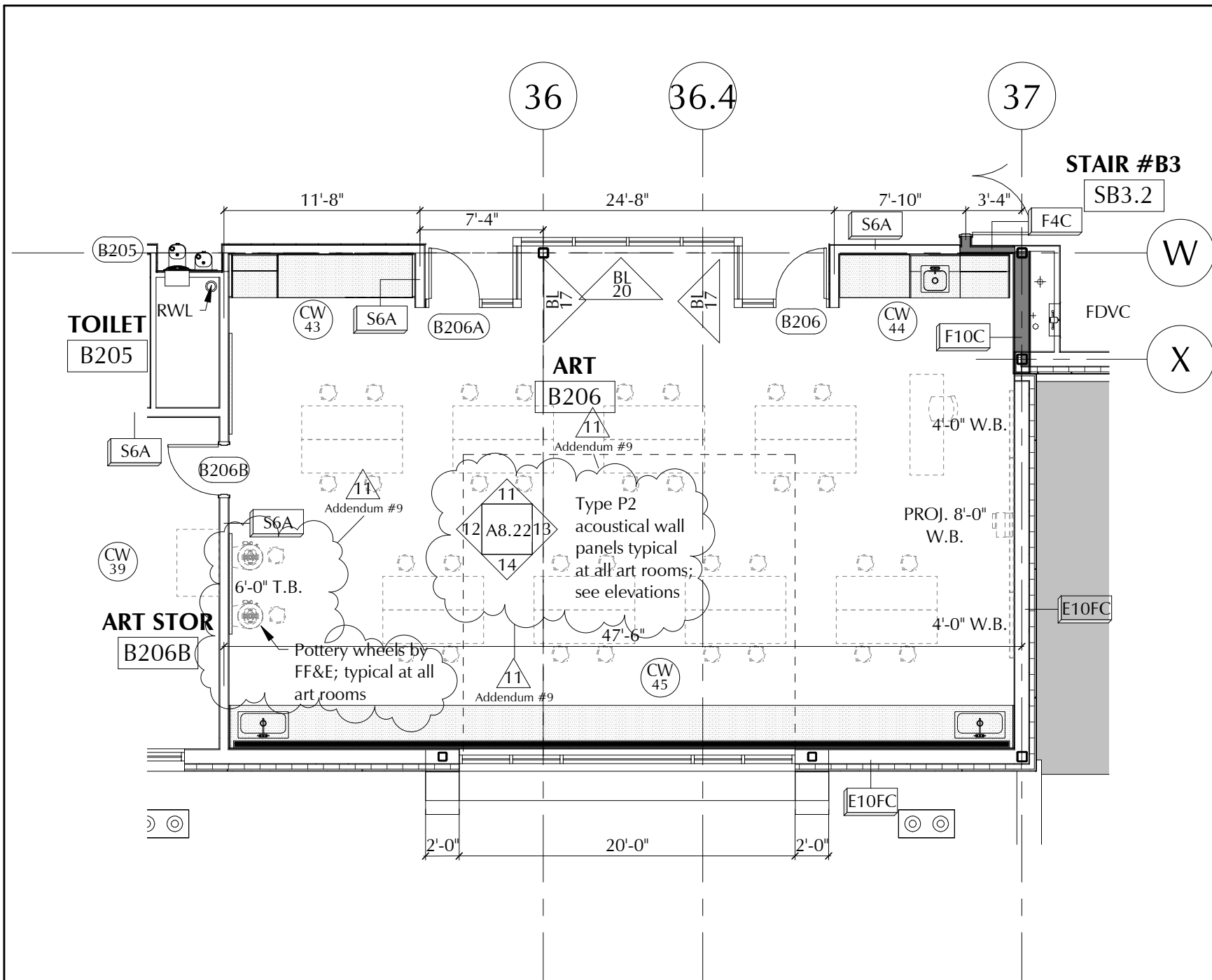
PROJECT TITLE:	
South High Community School	
170 Apricot Street, Worcester, MA 01603	

CLIENT INFORMATION:	
Worcester Public Schools	
	
City of Worcester Massachusetts, 01605	

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	
	
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10
A3.10

Partial Second Floor Plan Section B2

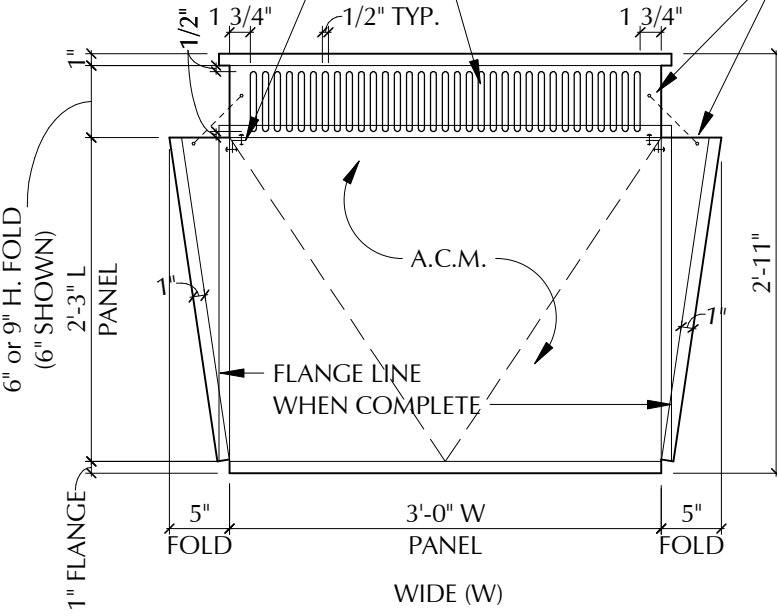
Scale: 1/8" = 1'-0"

 <p>LA MOREAUX PAGANO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 200 WORCESTER, MASSACHUSETTS 01605</p> <p>MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS</p>	<p>CLIENT INFORMATION: Worcester Public Schools</p>  <p>City of Worcester Massachusetts, 01605</p>	<p>PROJECT TITLE: FINAL BID PACKAGE</p> <p>South High Community School 170 Apricot Street, Worcester, MA 01603</p>	<p>DRAWING NAME: Typical Art Classroom</p> <p>DATE: 03/07/19</p> <p>SCALE: 1/8" = 1'-0"</p> <p>REFERENCE: Addendum #9</p>	<p>SHEET REF. NO. A3.10</p> <p>DRAWING NUMBER: ADD-9 A-067</p>

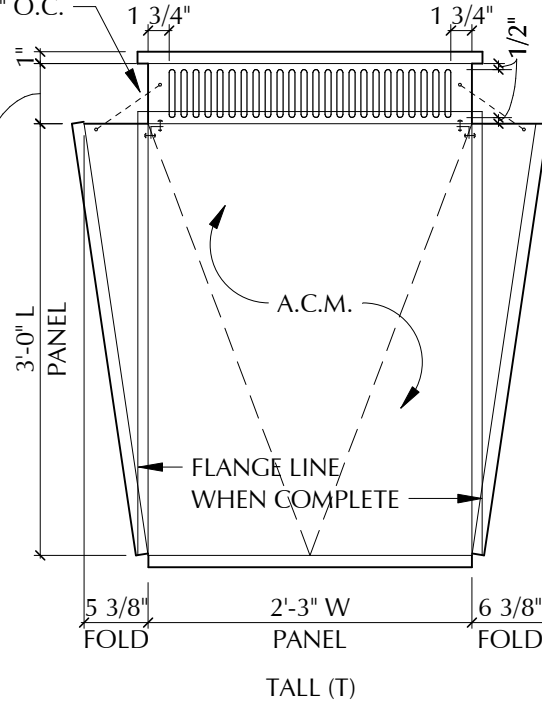
CORNER FASTENING;
RIVETS & METAL ANGLE
CORNER BRACKET; TYP.

ROUT OUT LIGHT SLOTS 1/2" WIDE 1" O.C.

RIVETS; TYP.



5" or 8" H. FOLD
(5" SHOWN)



11
Addendum #9

NOTES:

1. CONCEPTUAL FABRICATION LAYOUT; PANEL SHOWN FLAT PRIOR TO COMPLETED ASSEMBLED (WEDGE) FORM
2. EACH DECORATIVE WALL PANEL BAY TO HAVE EQUAL QUANTITY OF PANEL TYPES AND DIFFUSER GRILL HEIGHTS ARRANGED RANDOMLY.
3. USE COUNTER-SUNK FASTENERS ONLY

9
A8.24

Decorative Wall Panel Types (Wedges)

Scale: 3/4" = 1'-0"

SHEET REF. NO.

DRAWING NAME:
Decorative Wall Panel Types

DRAWING NUMBER:

ADD-9
A-068

DATE:

03/07/19

SCALE:

3/4" = 1'-0"

REFERENCE:

Addendum #9

PROJECT TITLE:

FINAL BID PACKAGE

South High
Community School
170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:

Worcester Public Schools

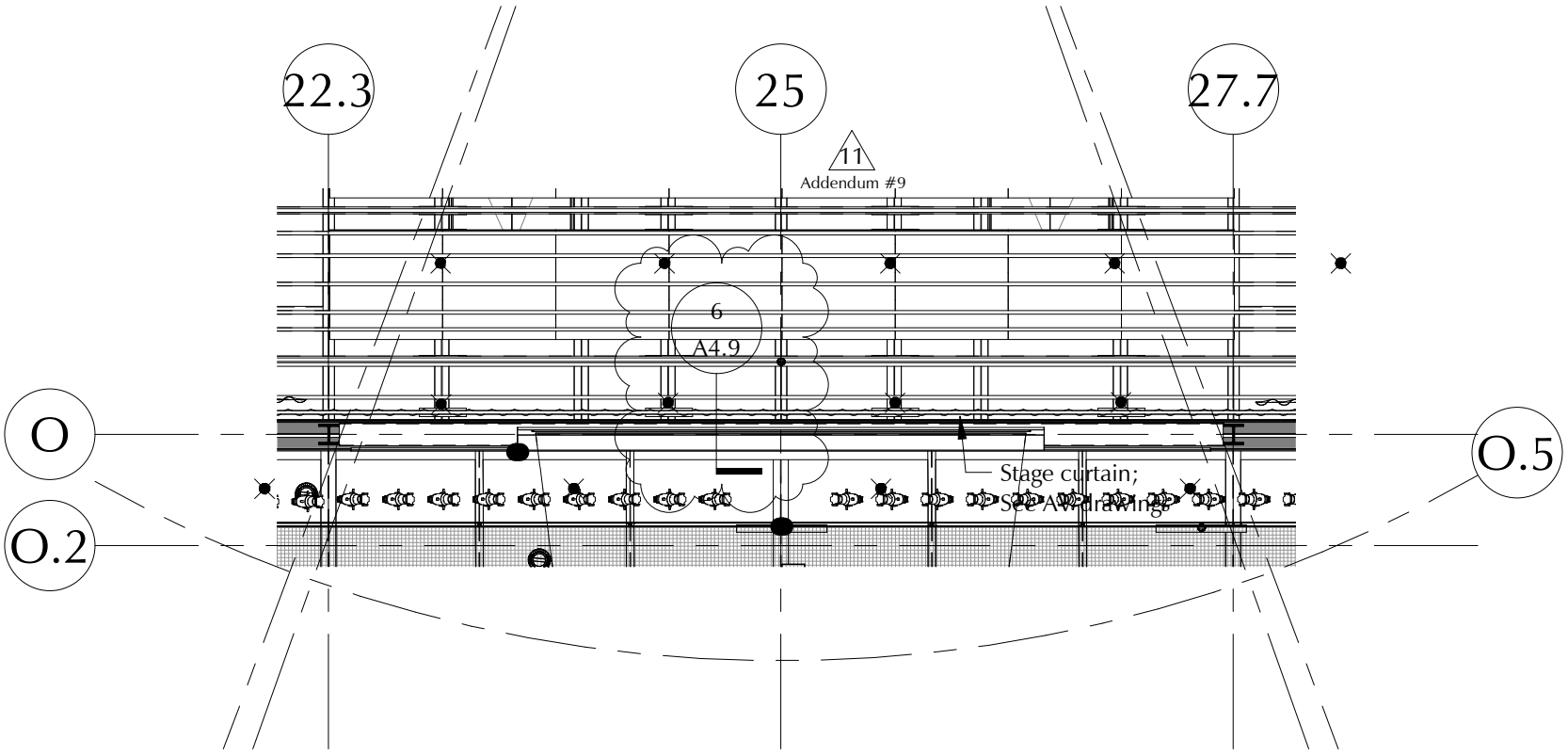


City of Worcester
Massachusetts, 01605

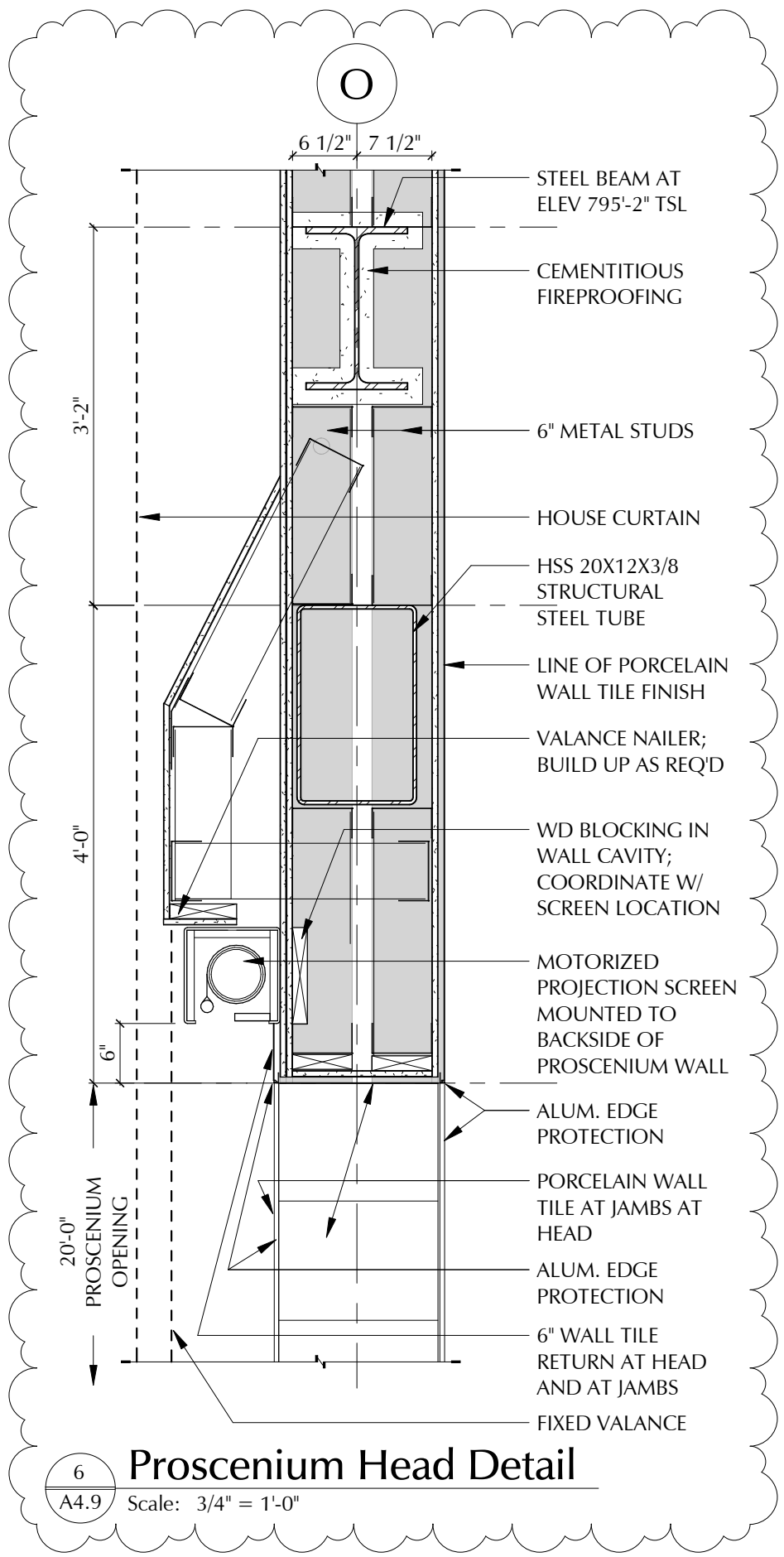


LAMOREAUX PASANO
ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 200
WORCESTER, MASSACHUSETTS 01605

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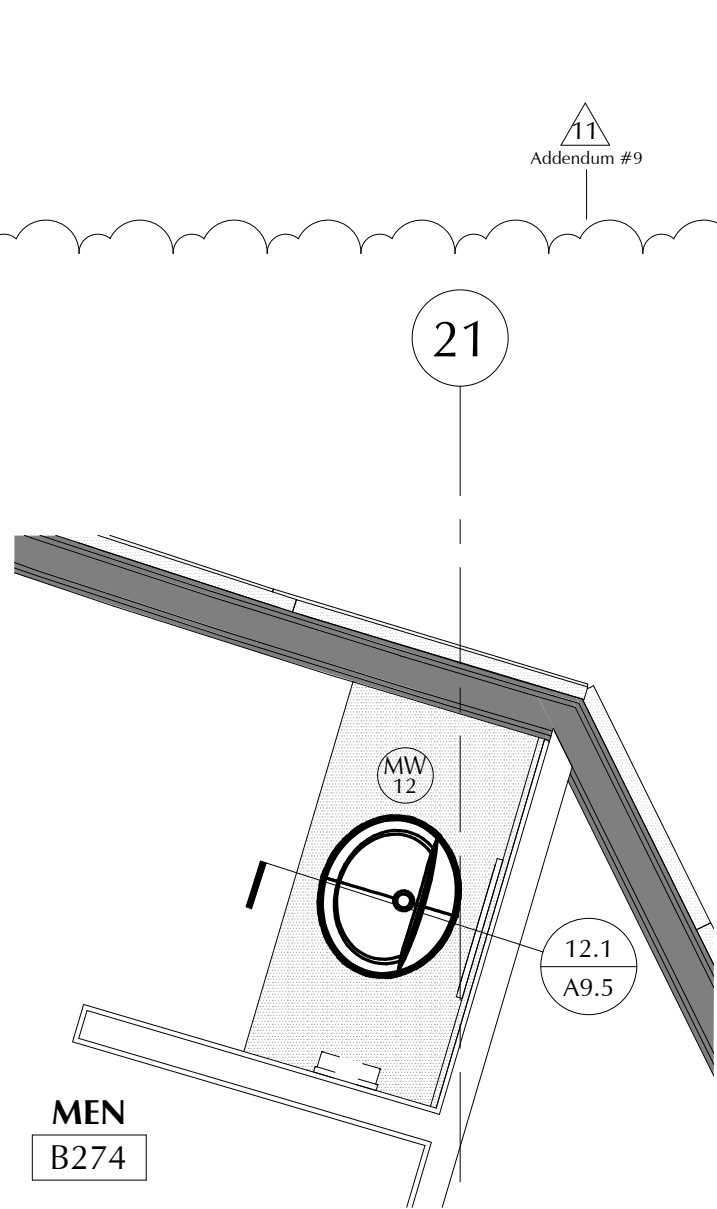
1 Partial Second Floor Reflected Ceiling Plan Section B1
A4.9 Scale: 1/8" = 1'-0"



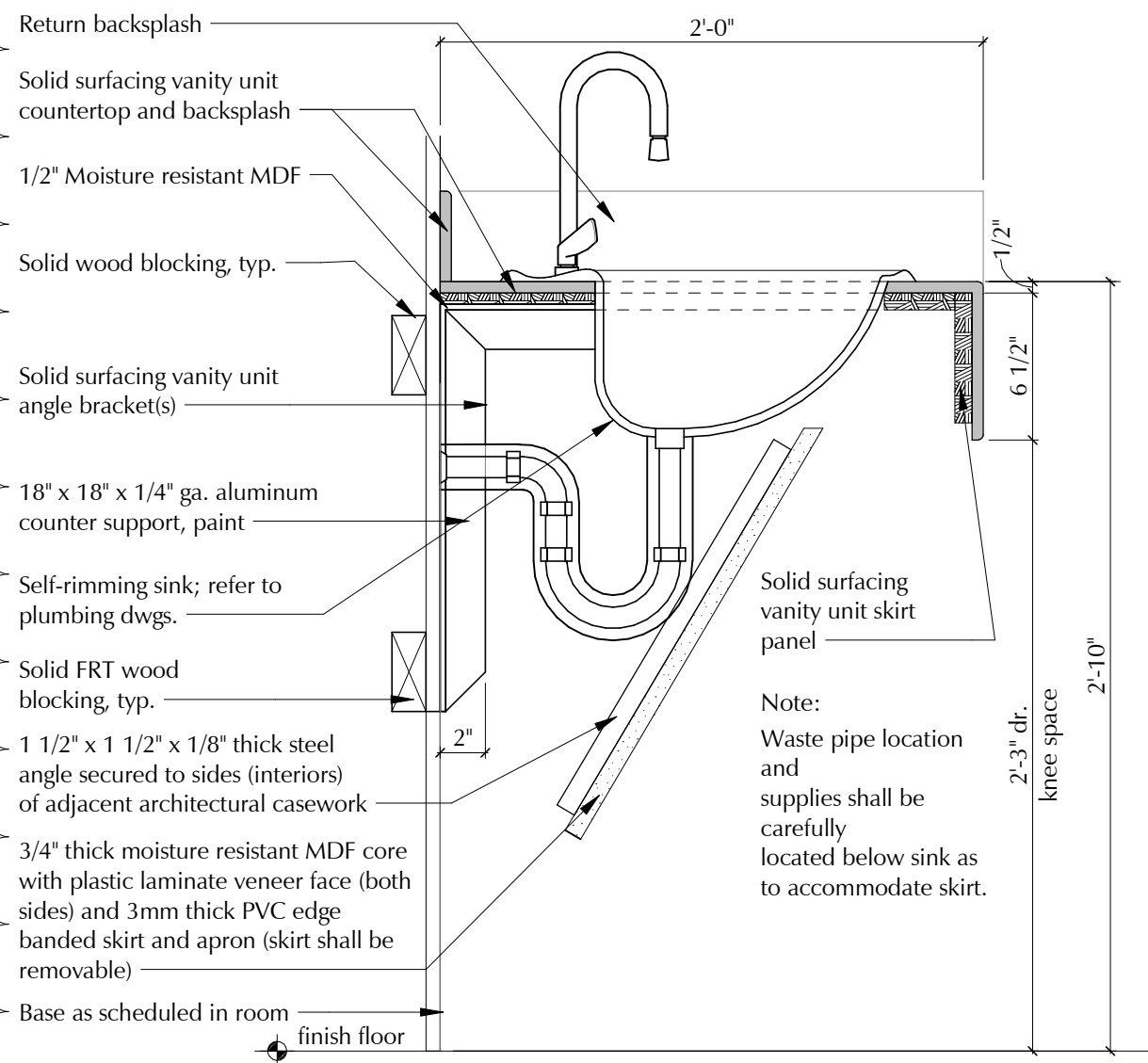
6 Proscenium Head Detail
A4.9 Scale: 3/4" = 1'-0"

11
Addendum #9

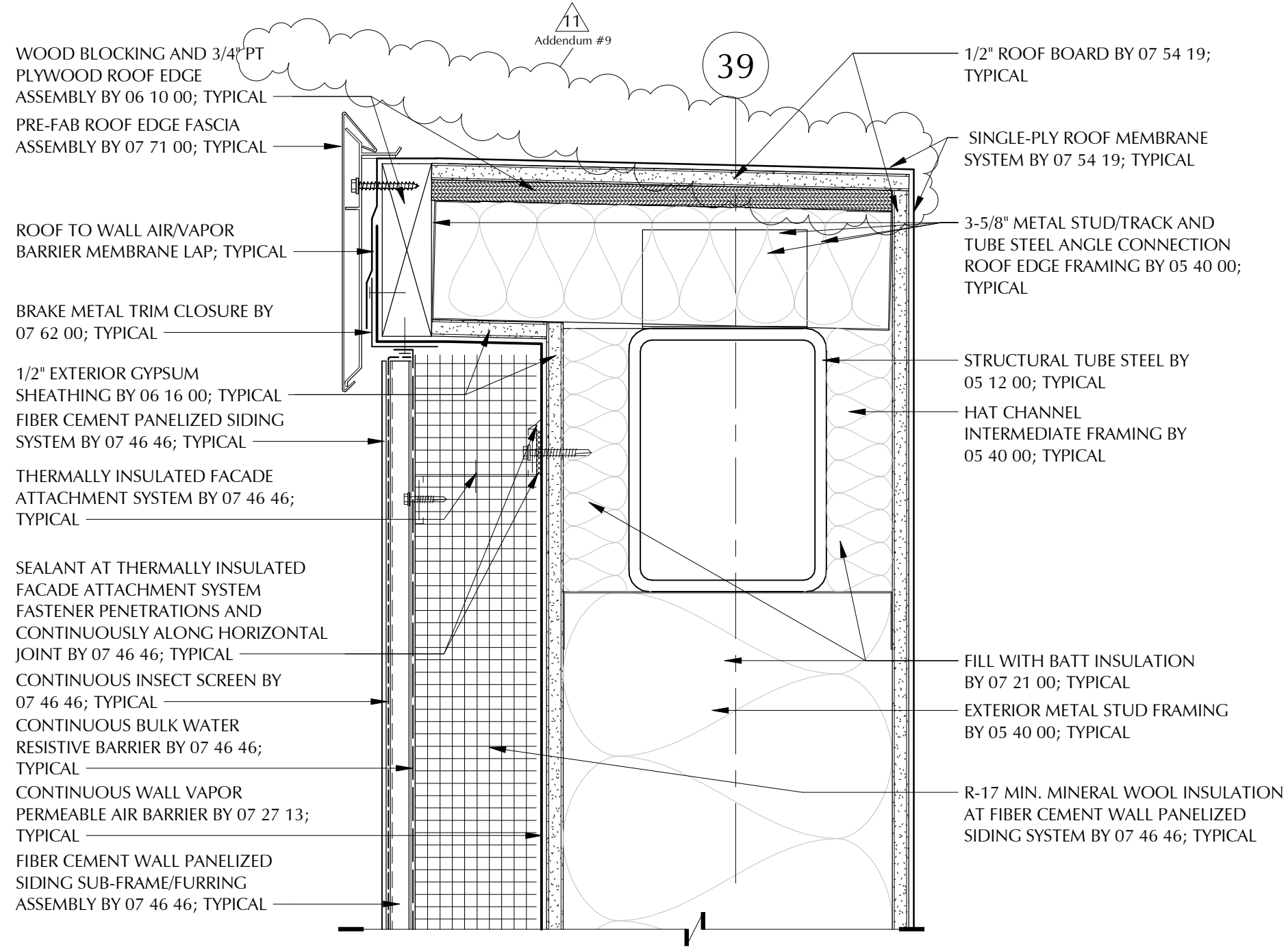
SHEET REF. NO.	DRAWING NAME: Proscenium Head Detail	DRAWING NUMBER: ADD-9 A-069
PROJECT TITLE: South High Community School 170 Apricot Street, Worcester, MA 01603		
CLIENT INFORMATION: Worcester Public Schools	 City of Worcester Massachusetts, 01605	
 LAMOUR & PACINO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS		



MW 12 MW-12 Solid Surface Counter with Sink
Scale: 1/2" = 1'-0"
Room B274
Similar at room B270.1



MW 12.1 MW-12 Solid Surface Counter with Sink Section
Scale: 1 1/2" = 1'-0"
Rooms B274 & B270.1



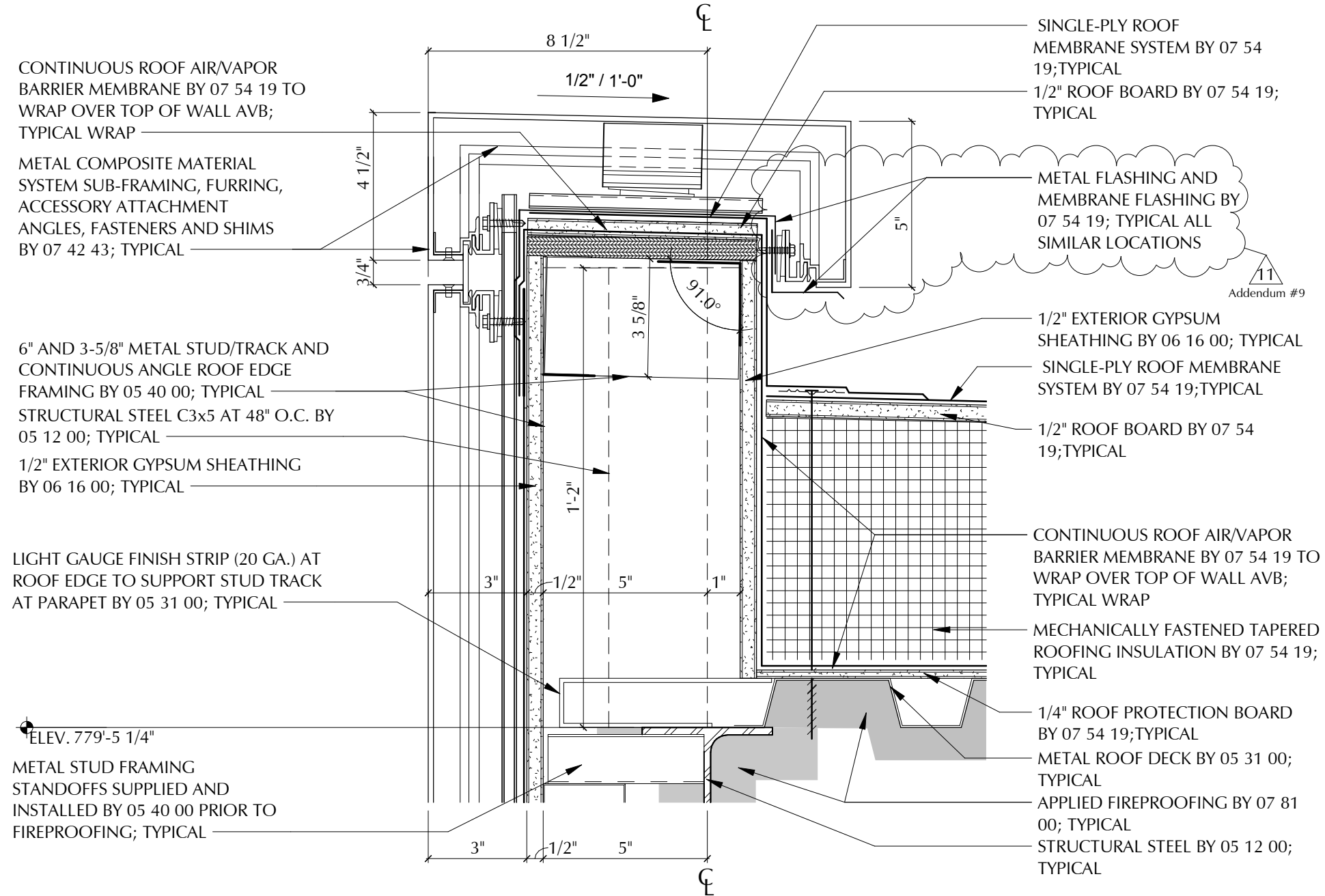
5 Roof Edge at High Parapet
A6.32 Scale: 3" = 1'-0"

DRAWING NAME:	SHEET REF. NO.	
	Roof Edge at High Parapet Revisions	A6.32
DATE:	DRAWING NUMBER:	
	03/07/19	ADD-9
SCALE:	3" = 1'-0"	A-071
REFERENCE:		Addendum #9

PROJECT TITLE:	
South High Community School	
170 Apricot Street, Worcester, MA 01603	

CLIENT INFORMATION:	
Worcester Public Schools	
City of Worcester Massachusetts, 01605	

LAVOIE & ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605	
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ROOF PARAPET AT BUILDING B2 - ENTRANCE

Scale: 3" = 1'-0"

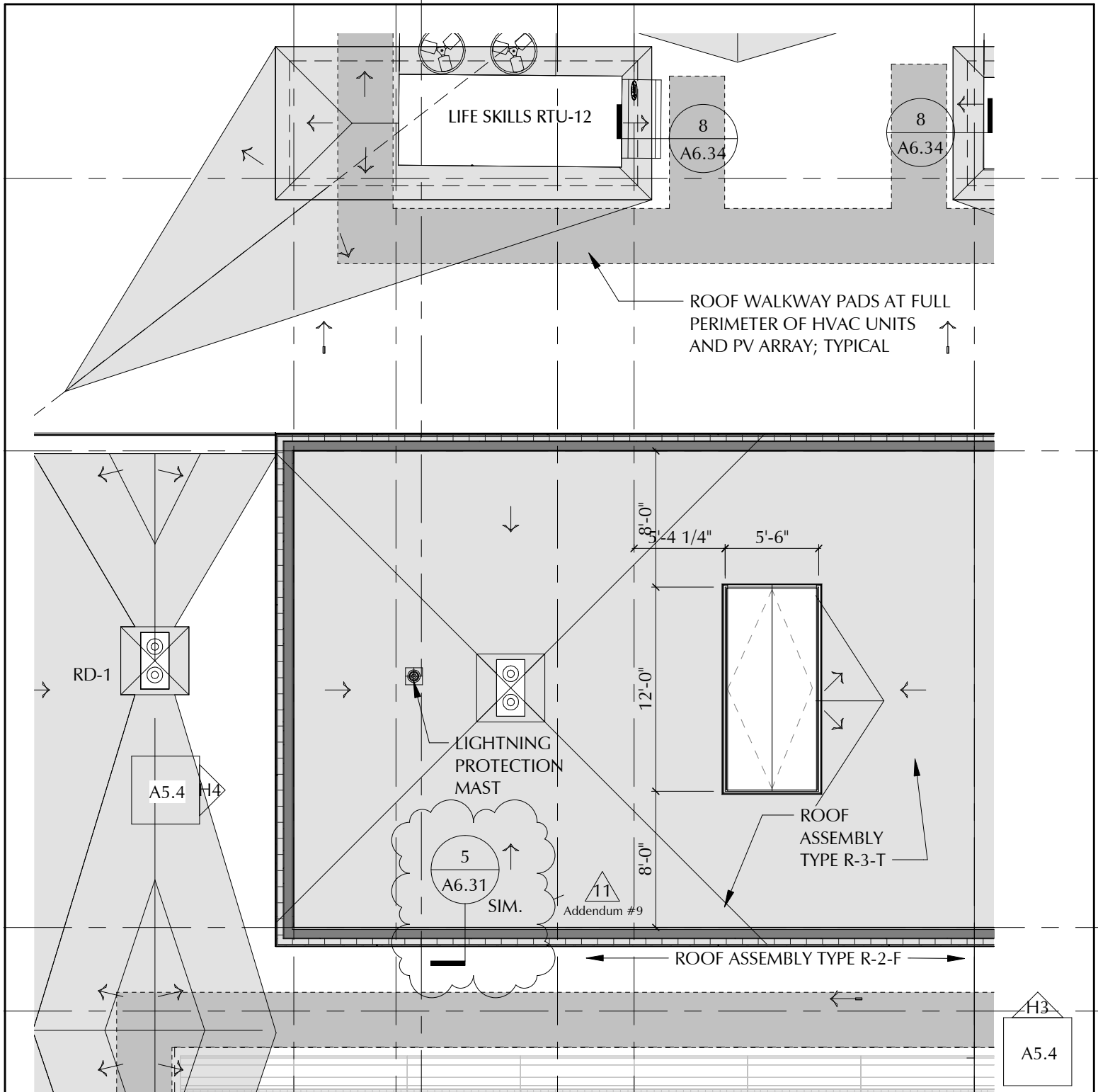
6
A6.33

DRAWING NAME:	SHEET REF. NO.
Roof Parapet at Building B2 - Entrance Revisions	A6.33
DATE:	DRAWING NUMBER:
03/07/19	ADD-9
SCALE:	A-072
3" = 1'-0"	
REFERENCE:	
Addendum #9	



PROJECT TITLE:
South High Community School
170 Apricot Street, Worcester, MA 01603

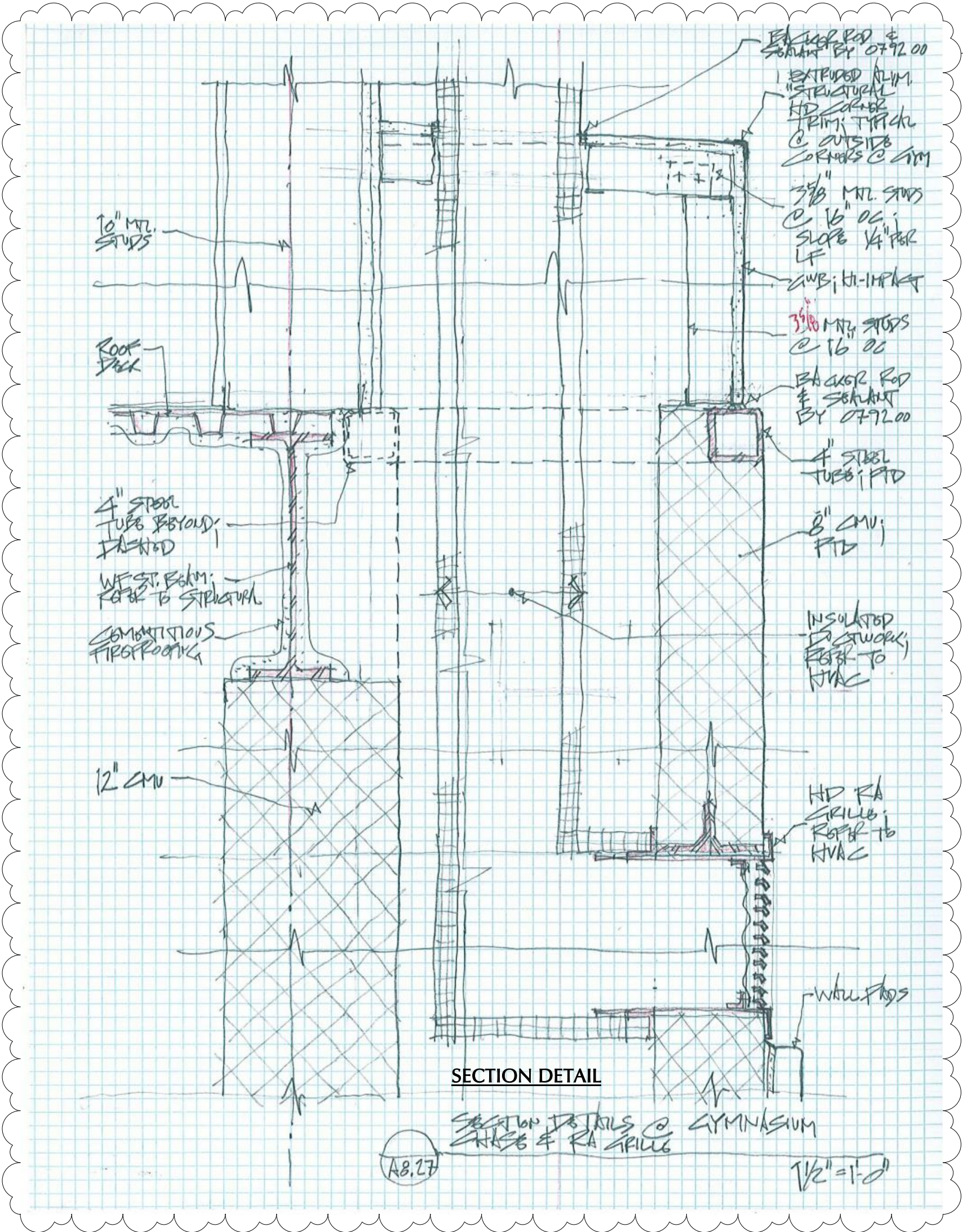
CLIENT INFORMATION:	Worcester Public Schools
	City of Worcester Massachusetts, 01605

	Lavoie & Associates Architects 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	



1 (Partial) Roof Plan - Section B1
A3.16 Scale: 1/8" = 1'-0"

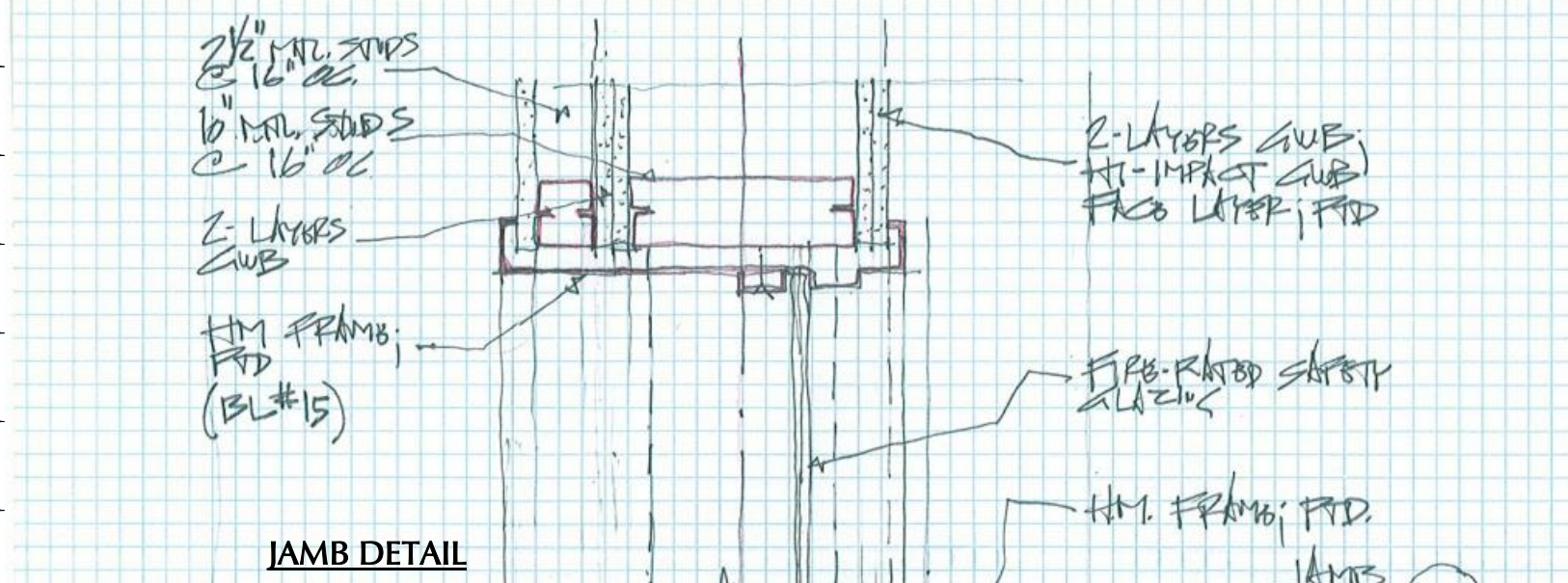
 <p>LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605</p> <p>MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS</p>	<p>CLIENT INFORMATION: Worcester Public Schools</p>  <p>City of Worcester Massachusetts, 01605</p>	<p>PROJECT TITLE: FINAL BID PACKAGE</p> <p>South High Community School</p> <p>170 Apricot Street, Worcester, MA 01603</p>	<p>DRAWING NAME: Roof Plan - Section B1 Stage Roof Revision</p> <p>DATE: 03/07/19</p> <p>SCALE: 1/8" = 1'-0"</p> <p>REFERENCE: Addendum #9</p>	<p>SHEET REF. NO. A3.16</p> <p>DRAWING NUMBER: ADD-9 A-073</p>
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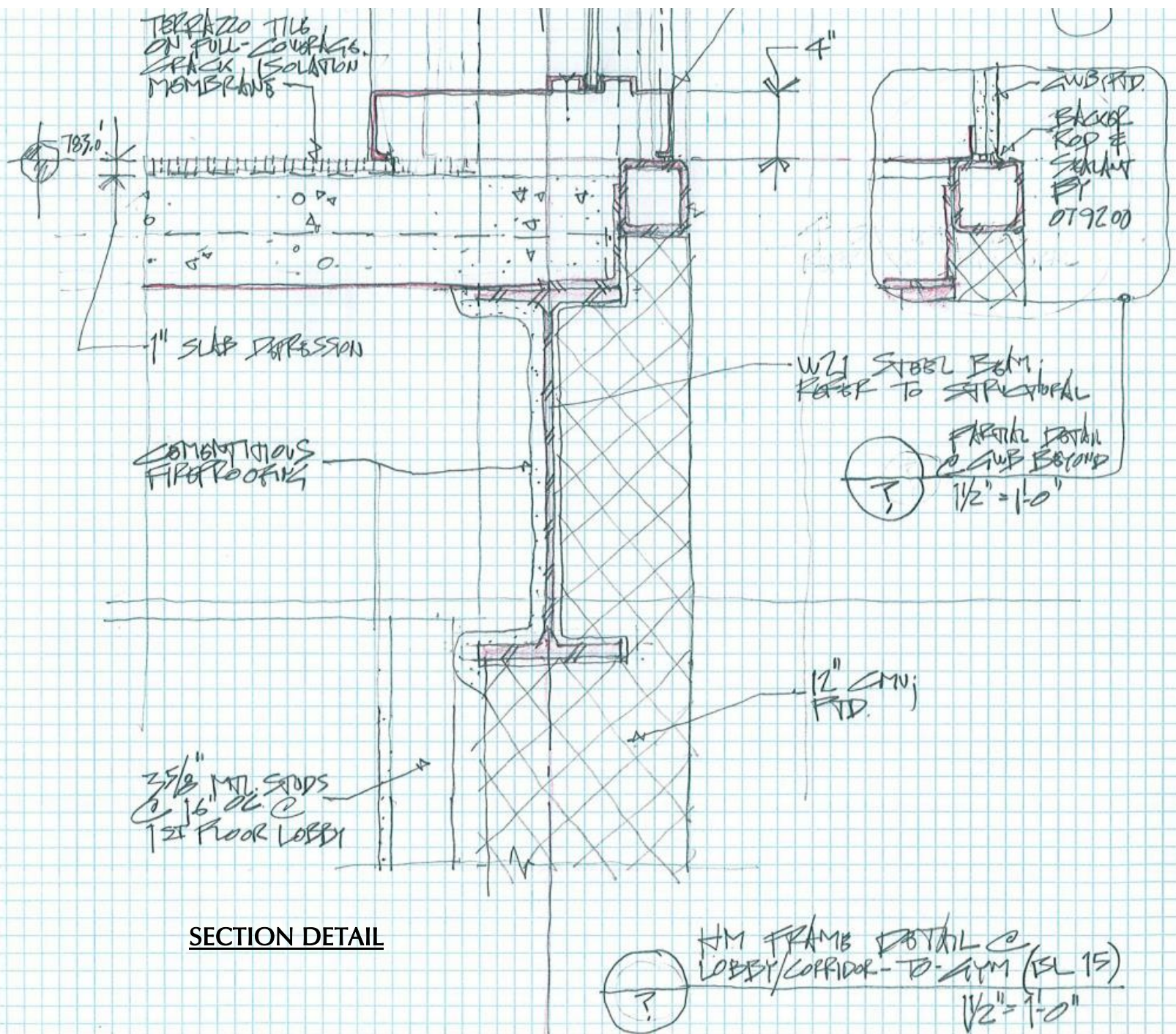
8
A8.27

Section Detail at Gymnasium Chase and RA Grille

Scale: 1 1/2" = 1'-0"



JAMB DETAIL



SECTION DETAIL

6
A8.27

HM Frame Detail at Lobby/Corridor to Gym BL15

Scale: 1 1/2" = 1'-0"



LAMOUREUX PAGANO
ASSOCIATES ARCHITECTS
109 GROVE STREET, SUITE 200
WORCESTER, MASSACHUSETTS 01605

MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools



City of Worcester
Massachusetts, 01605

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:

HM Frame Detail at Lobby/Corridor
to Gym BL15

DATE:

03/07/19

SCALE:

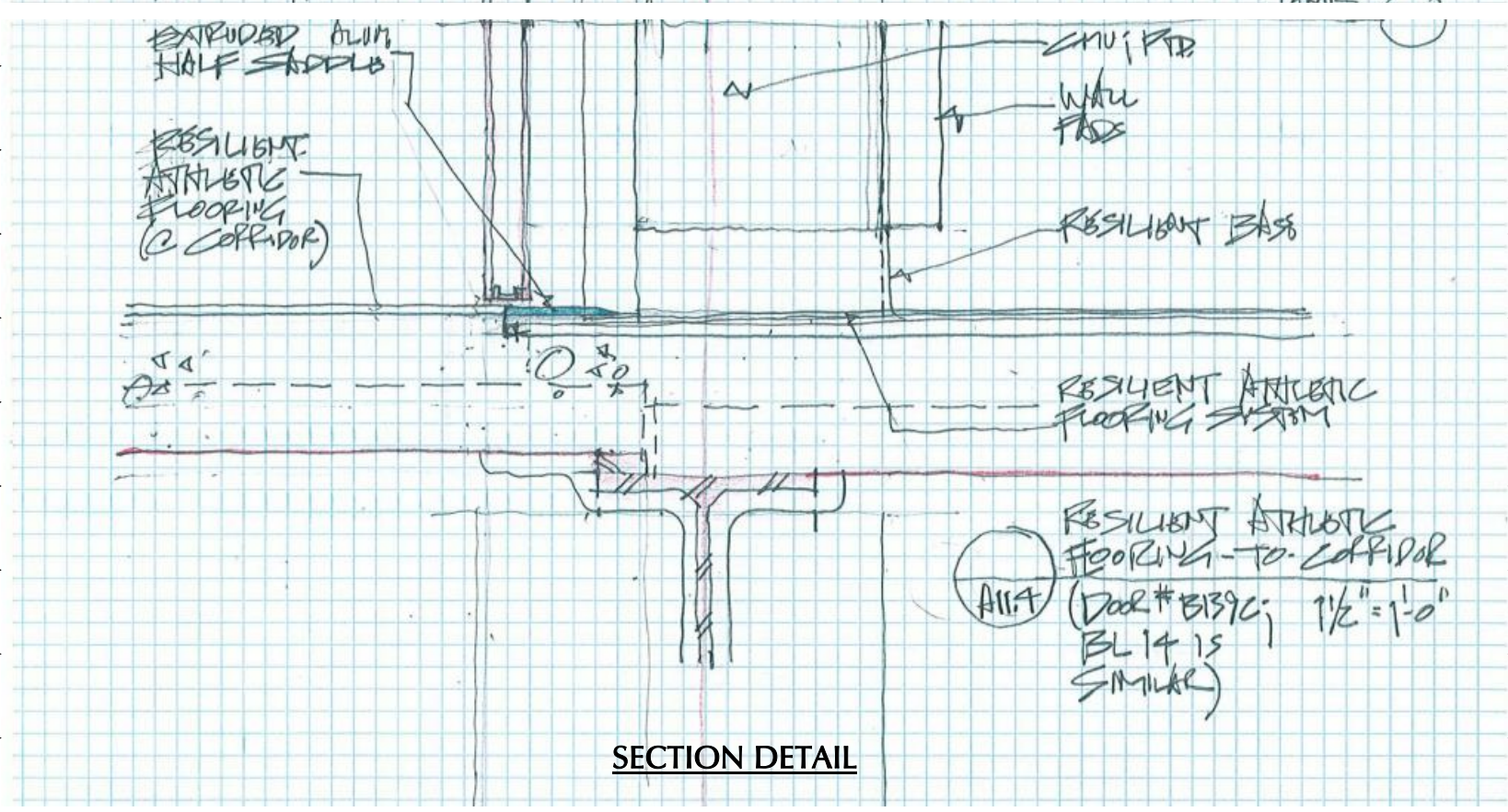
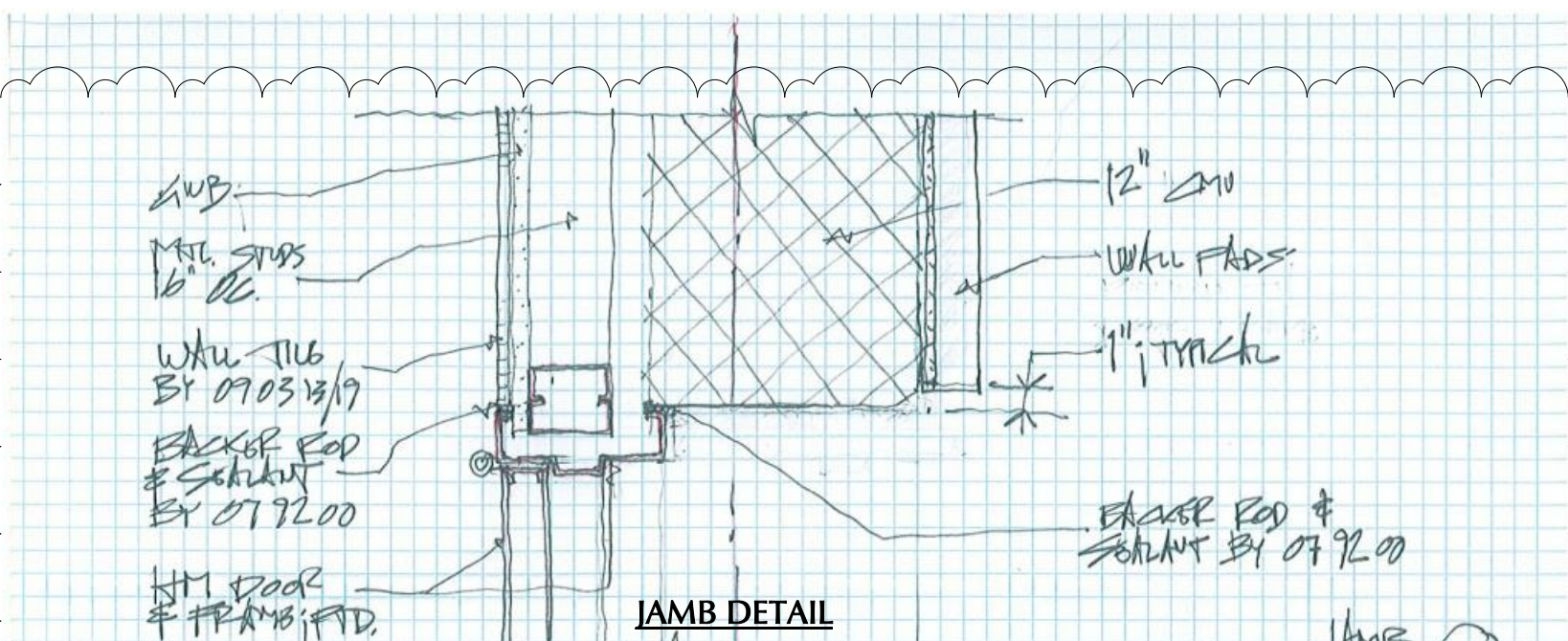
1 1/2" = 1'-0"

SHEET REF. NO.

DRAWING NUMBER:

ADD-9

A-075



NOTE:
DOOR #B139C; BL 14 IS SIMILAR

7
A8.27

Resilient Athletic Flooring to Corridor - Door B139C

Scale: 1 1/2" = 1'-0"



LAMOUREUX PAGANO
ASSOCIATES ARCHITECTS
109 GROVE STREET, SUITE 200
WORCESTER, MASSACHUSETTS 01605

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CLIENT INFORMATION:
Worcester Public Schools



City of Worcester
Massachusetts, 01605

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:

Resilient Athletic Flooring to
Corridor - Door B139C

DATE:

03/07/19

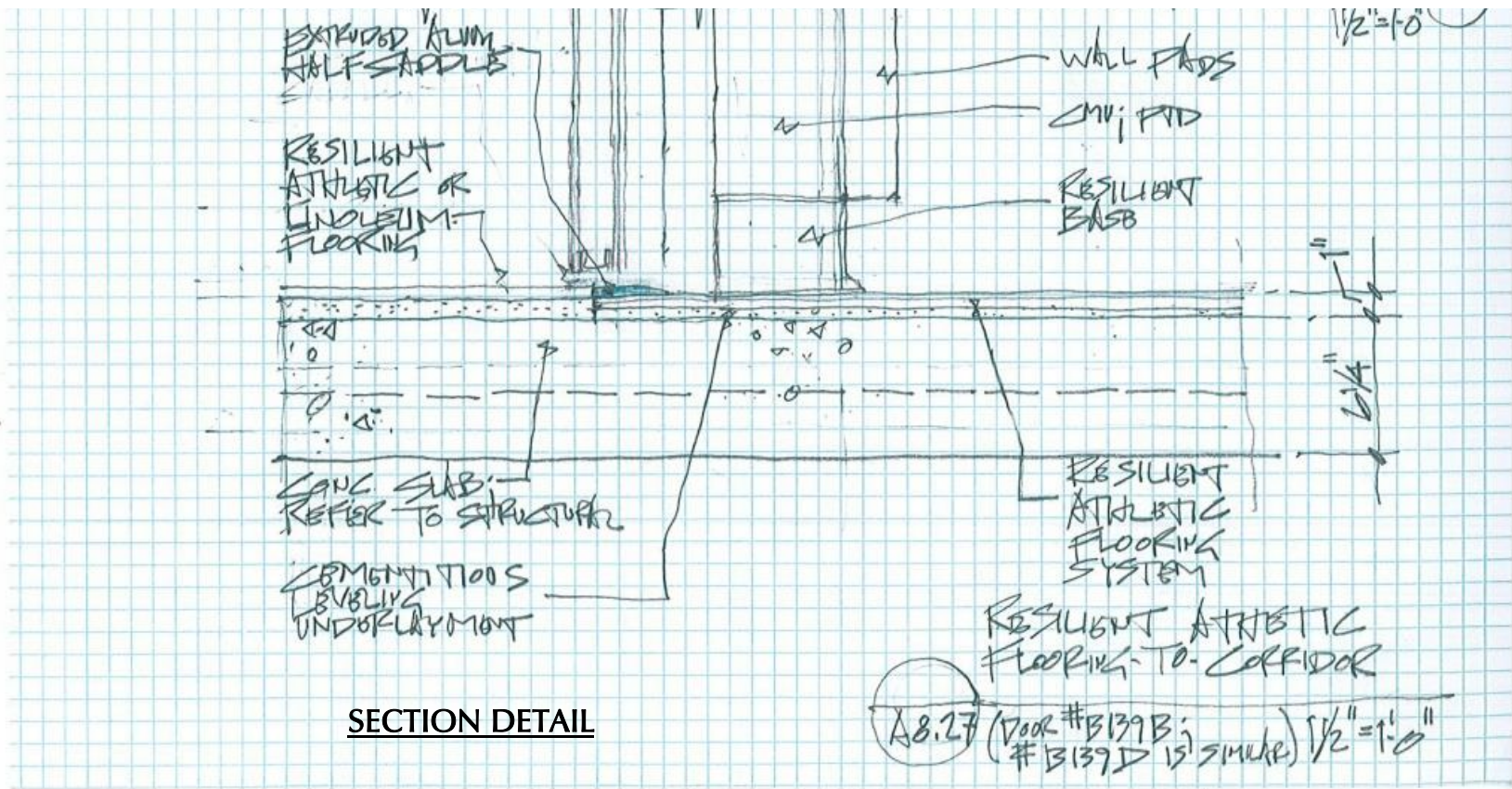
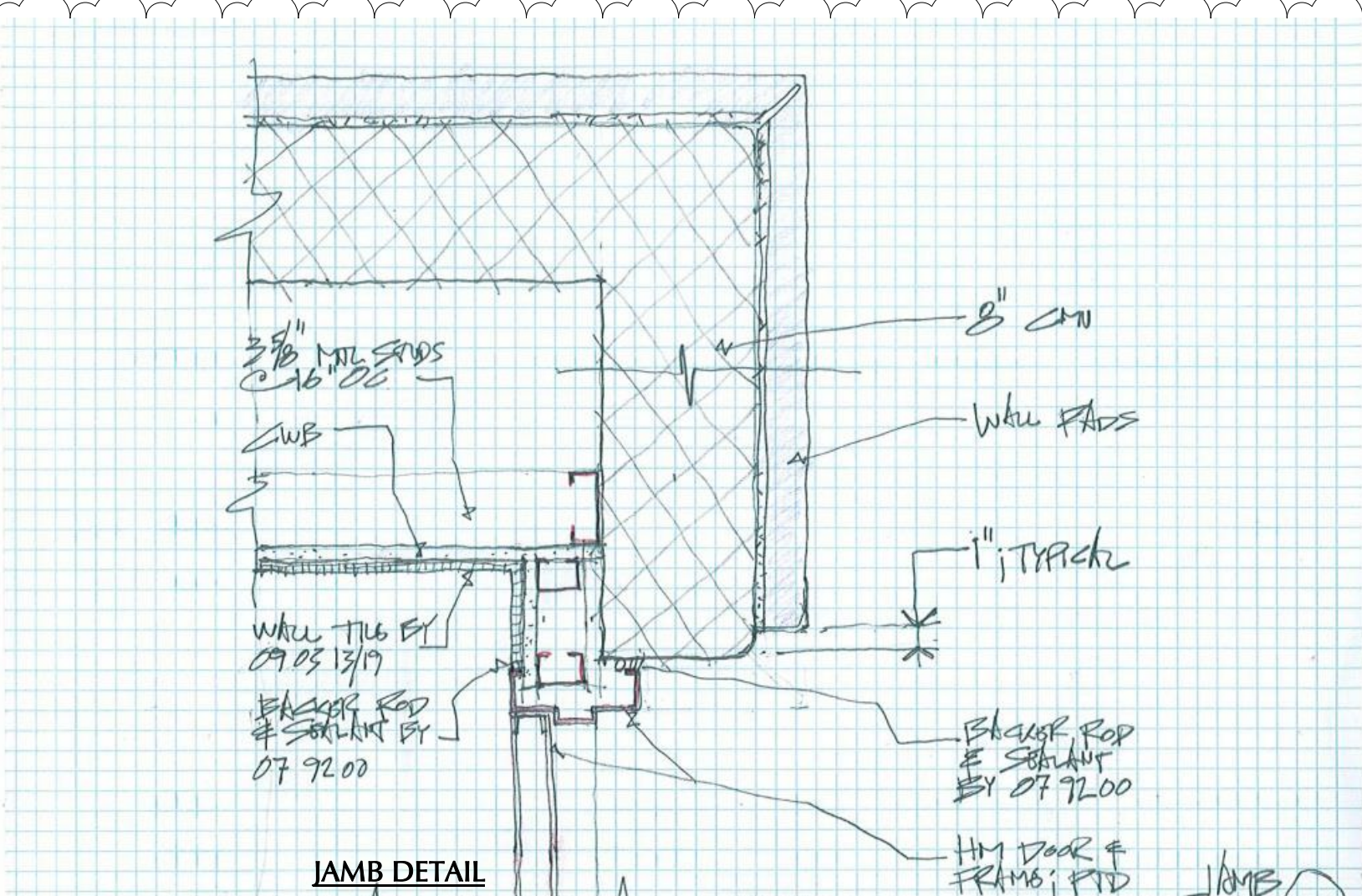
SCALE:

1 1/2" = 1'-0"

SHEET REF. NO.

DRAWING NUMBER:

ADD-9
A-076

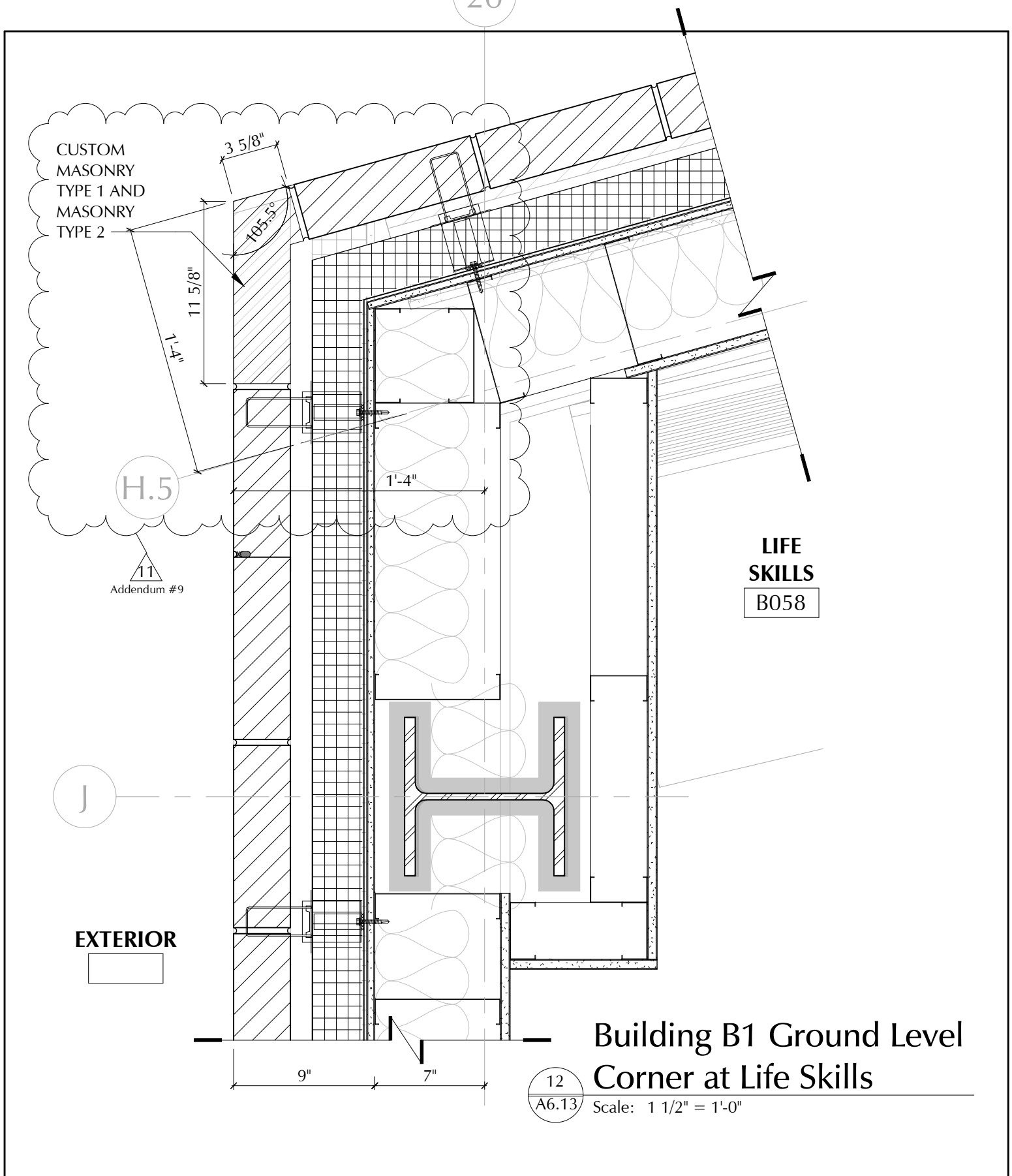



NOTE:
DOOR #B139B; #B139D IS SIMILAR

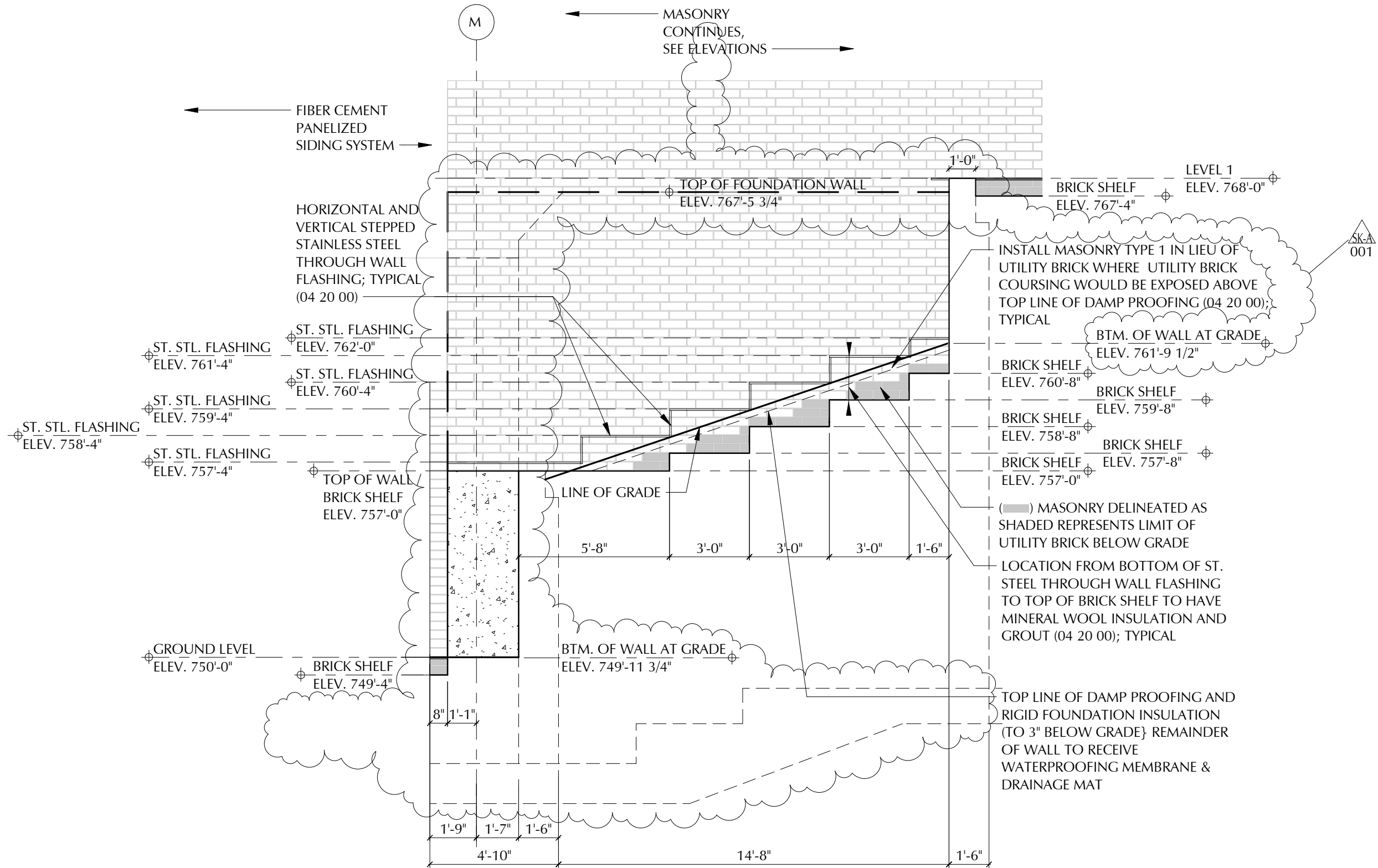
5
A8.27

Resilient Athletic Flooring to Corridor - Door B139A

Scale: 1 1/2" = 1'-0"





 <p>LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605</p> <p>MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS</p>	<p>CLIENT INFORMATION: Worcester Public Schools</p>  <p>City of Worcester Massachusetts, 01605</p>	<p>PROJECT TITLE: FINAL BID PACKAGE</p> <p>South High Community School</p> <p>170 Apricot Street, Worcester, MA 01603</p>	<p>DRAWING NAME: Building B1 Ground Level Corner at Life Skills Revision</p> <p>DATE: 03/07/19</p> <p>SCALE: 1 1/2" = 1'-0"</p> <p>REFERENCE: Addendum #9</p>	<p>SHEET REF. NO. A6.13</p> <p>DRAWING NUMBER: ADD-9 A-078</p>
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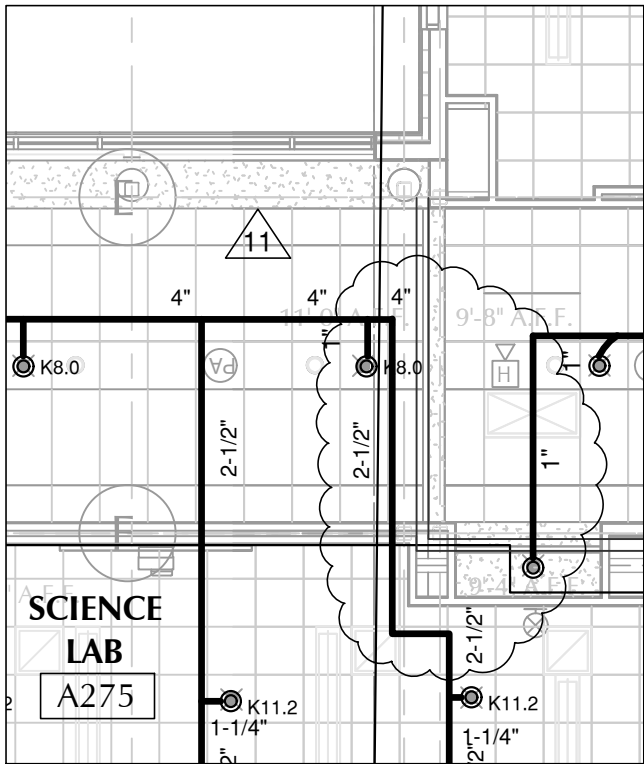


1
A6.17

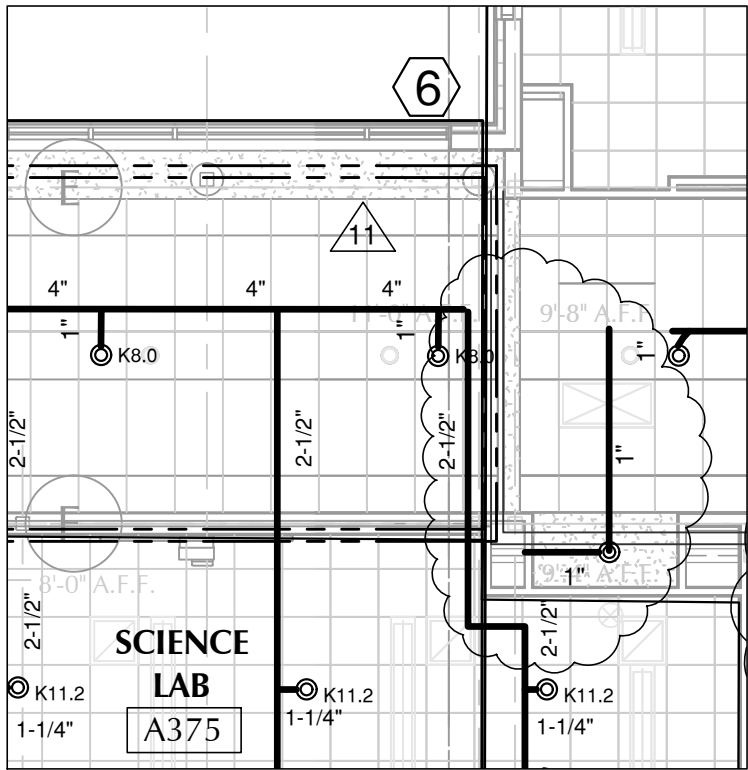
Brick Shelf at Stepped Footing/Retaining Wall at Auditorium

Scale: 1/4" = 1'-0"

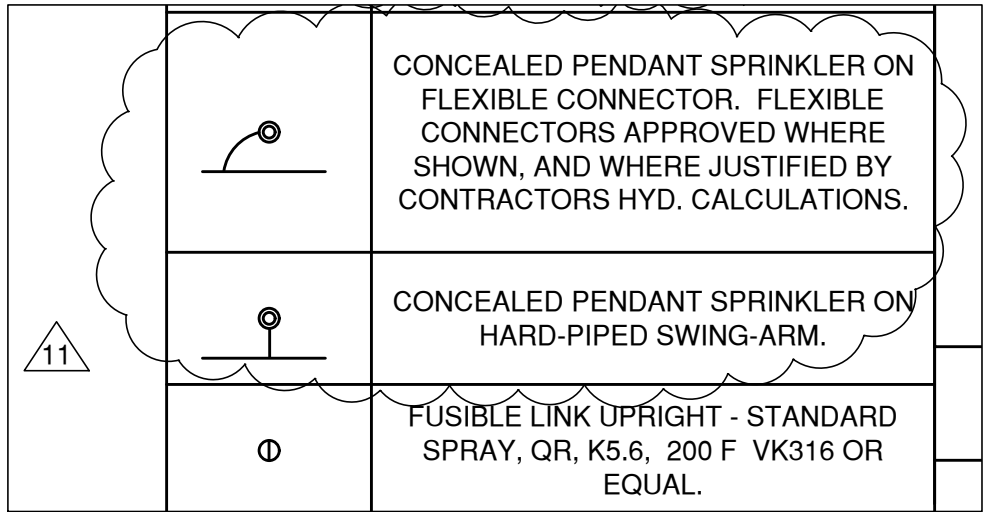
SHEET REF. NO. A6.17	DRAWING NAME: Brick Shelf Revisions	DRAWING NUMBER: SK-A 001	
		DATE: 02/25/19	SCALE: 1/4" = 1'-0"
PROJECT TITLE: <h2>South High Community School</h2> 170 Apricot Street, Worcester, MA 01603		CLIENT INFORMATION: Worcester Public Schools  City of Worcester Massachusetts, 01605	
 LAVOURUS PACHINO ASSOCIATES ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605		MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	



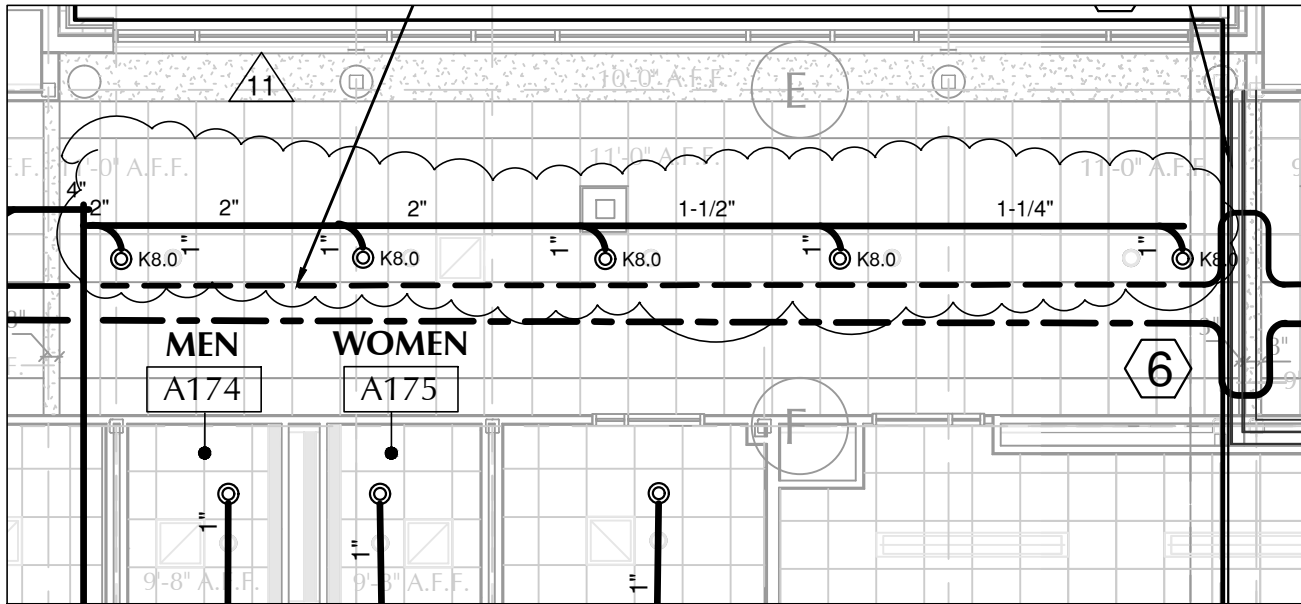
1 A275 Re-route Branches
FP012 Scale: 1/8" = 1'-0"



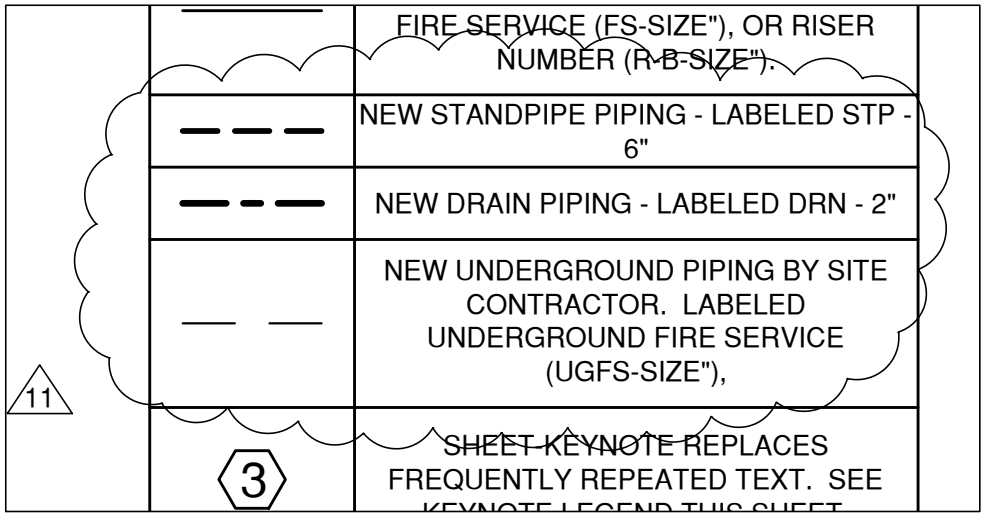
2 A375 Re-route Branches
FP012 Scale: 1/8" = 1'-0"



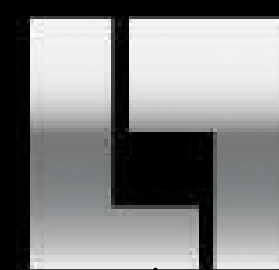
3 Legend Clarified - Spr. Connectors
FP012 Scale: 1/8" = 1'-0"



4 Corridor A160 Pipe Sizes Reduced
FP012 Scale: 1/8" = 1'-0"

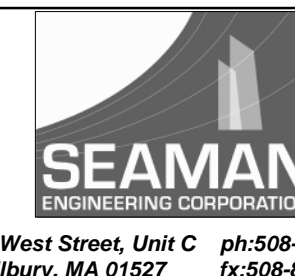


5 Legend Clarified - Line Types
FP012 Scale: 1/8" = 1'-0"



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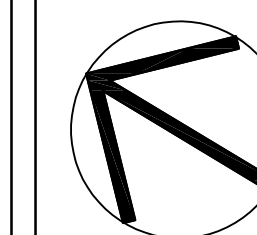
OWNER

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Worcester, MA

Project North



PROJECT
FINAL BID PACKAGE

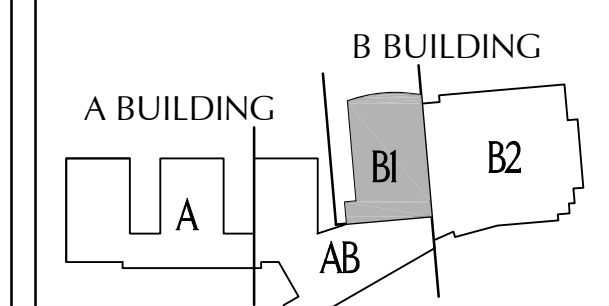
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

First Floor
Plumbing Plan
Section B1

Key Plan

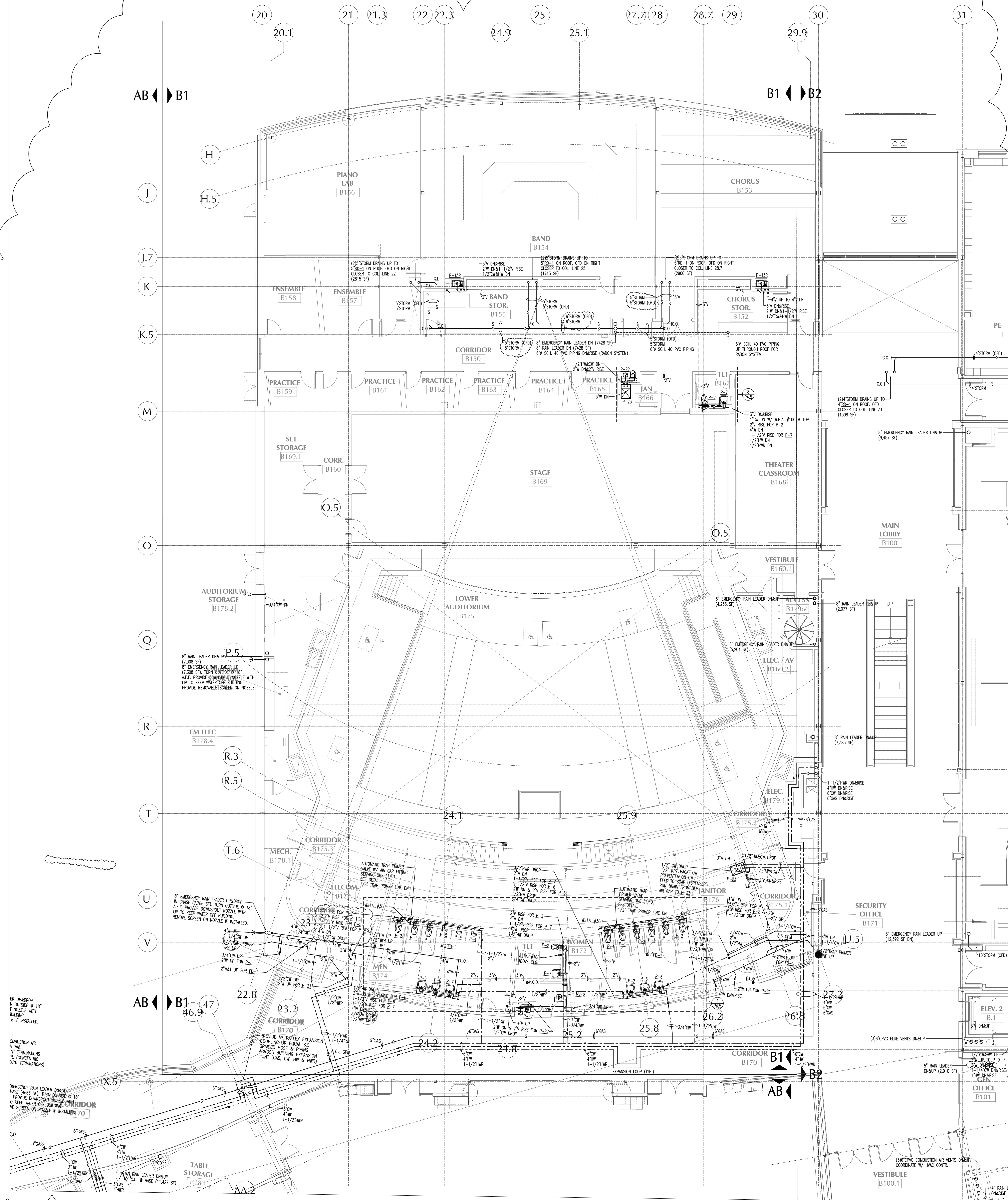


REVISIONS

No.	Description	Date

FILE:
DWN. BY: CDR JOB NO: #1611
CKD. BY: KRS SCALE: 1/8" = 1'-0"
DATE: January 31, 2019

P3.5

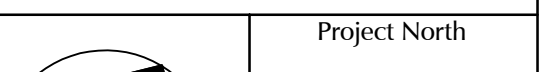
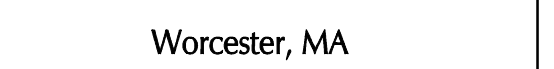


First Floor Plumbing Plan - Section B1

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

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PROJECT
FINAL BID PACKAGE

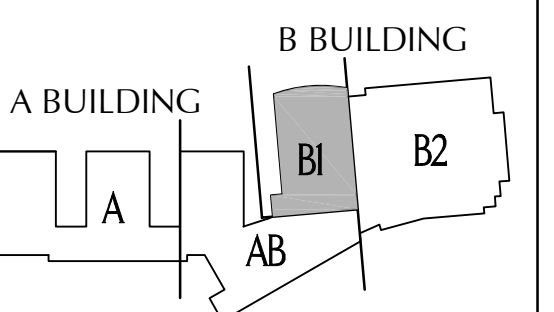
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Second Floor Plumbing Plan Section B1

Key Plan



REVISIONS

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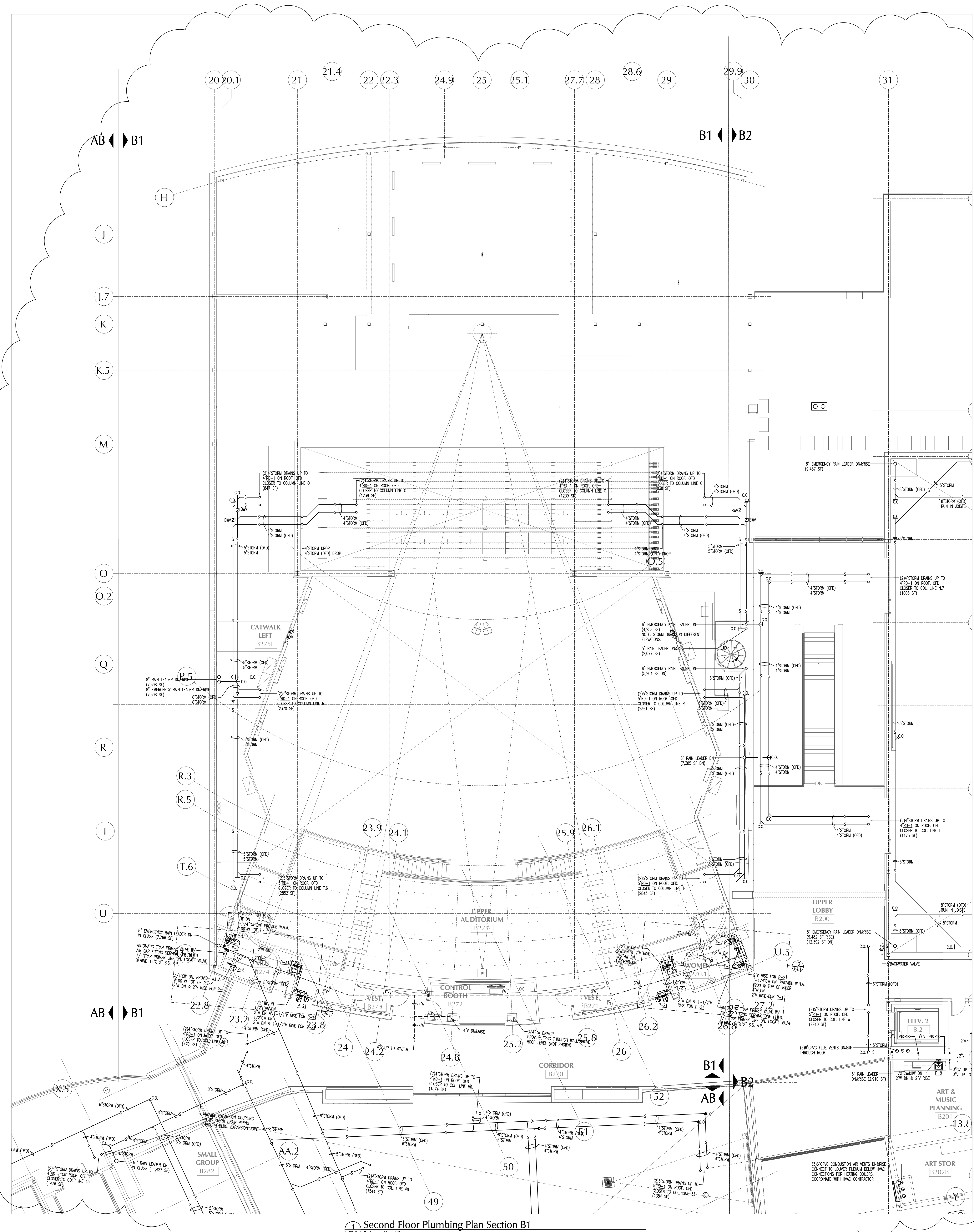
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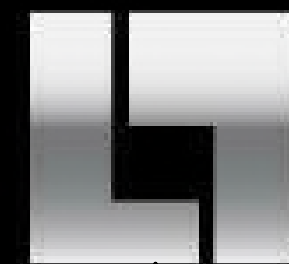
AVN. BY: CDR	JOB NO: #1611
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KD. BY: KRS	SCALE: 1/8" = 1'-0"
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DATE: January 31, 2019

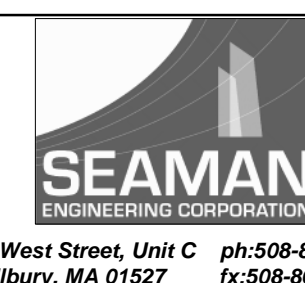
P3.9





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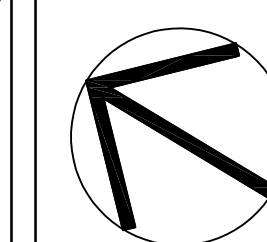
OWNER

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Worcester, MA

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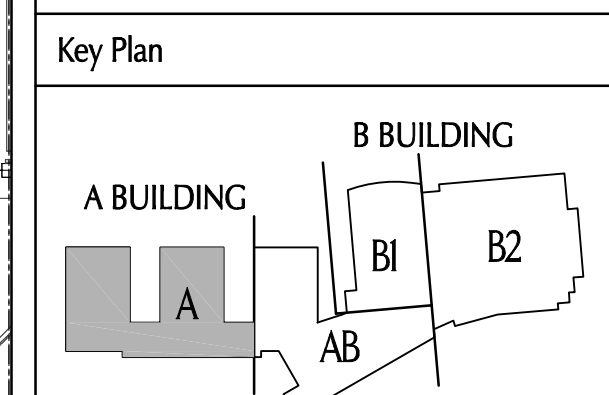


PROJECT
FINAL BID PACKAGE

South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE
First Floor
Gas Piping
Plumbing Plan
Section A

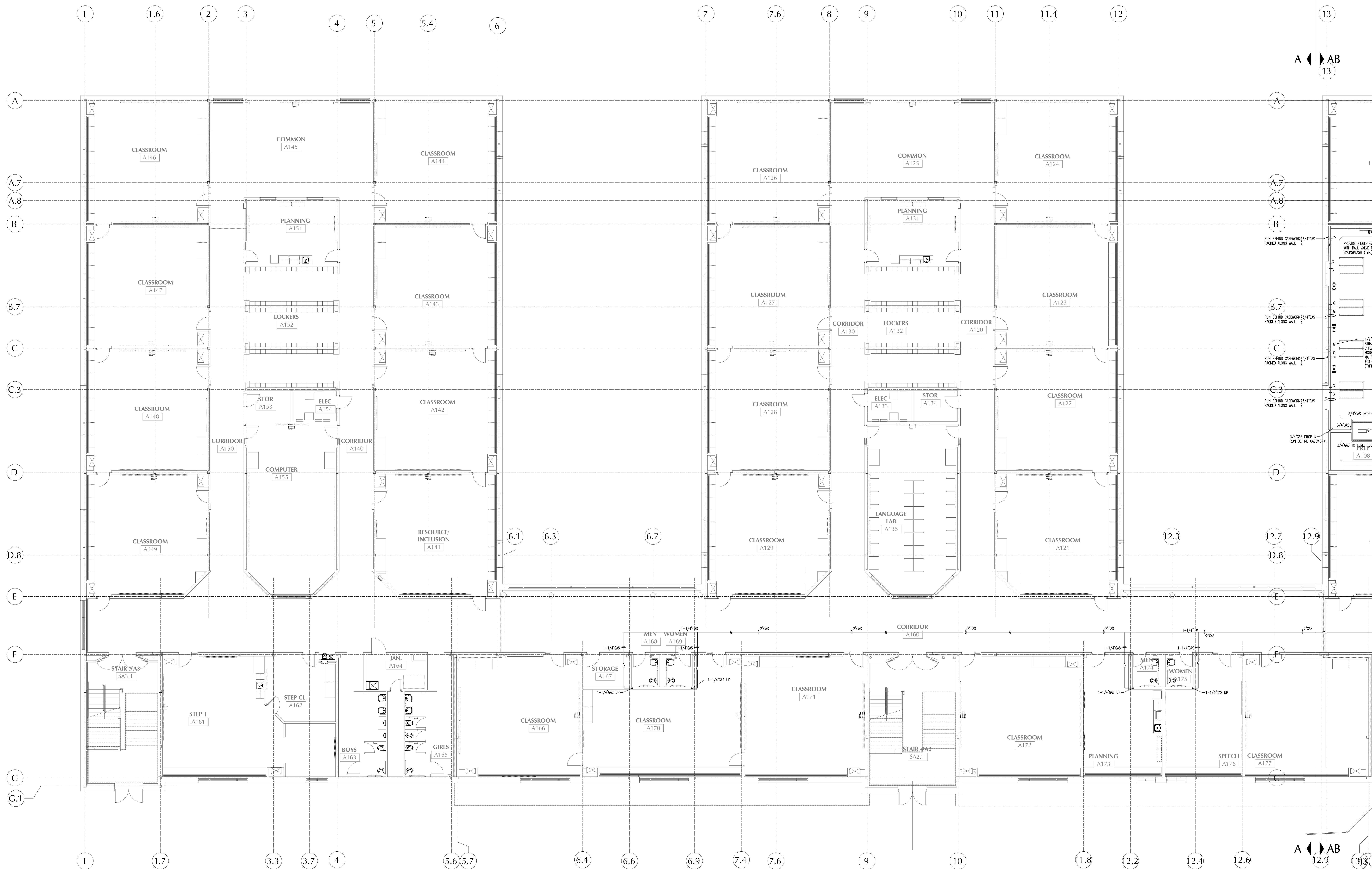


REVISIONS
No. Description Date

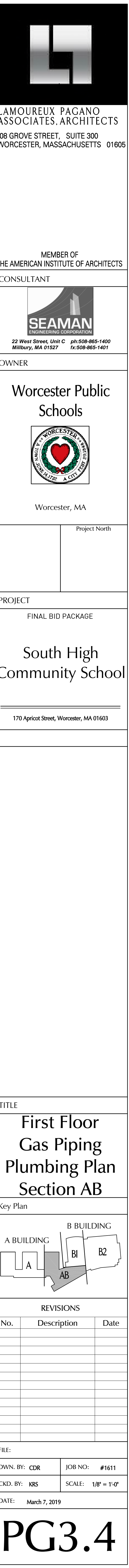
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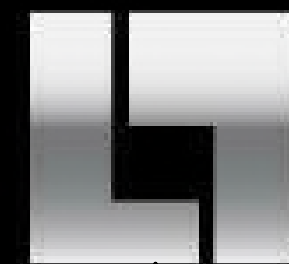
FILE:
DWN. BY: CDR JOB NO: #1611
CKD. BY: KRS SCALE: 1/8" = 1'-0"
DATE: March 7, 2019

PG3.3



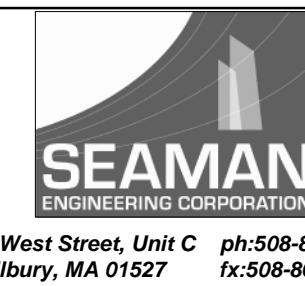
1 First Floor Gas Piping Plumbing Plan Section A
PG3.3 Scale: 1/8" = 1'-0"





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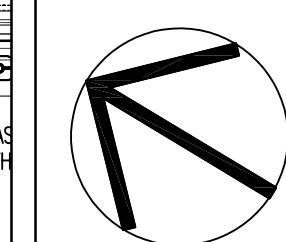
OWNER

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Worcester, MA

Project North



PROJECT
FINAL BID PACKAGE

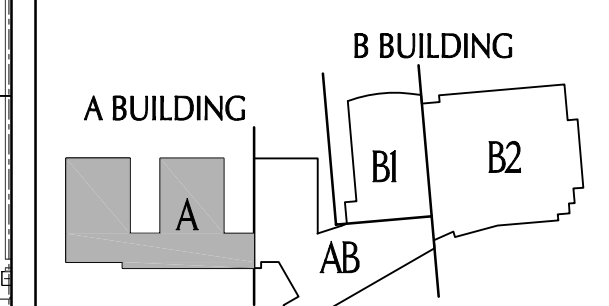
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Second Floor
Gas Piping
Plumbing Plan
Section A

Key Plan



REVISIONS

No.	Description	Date

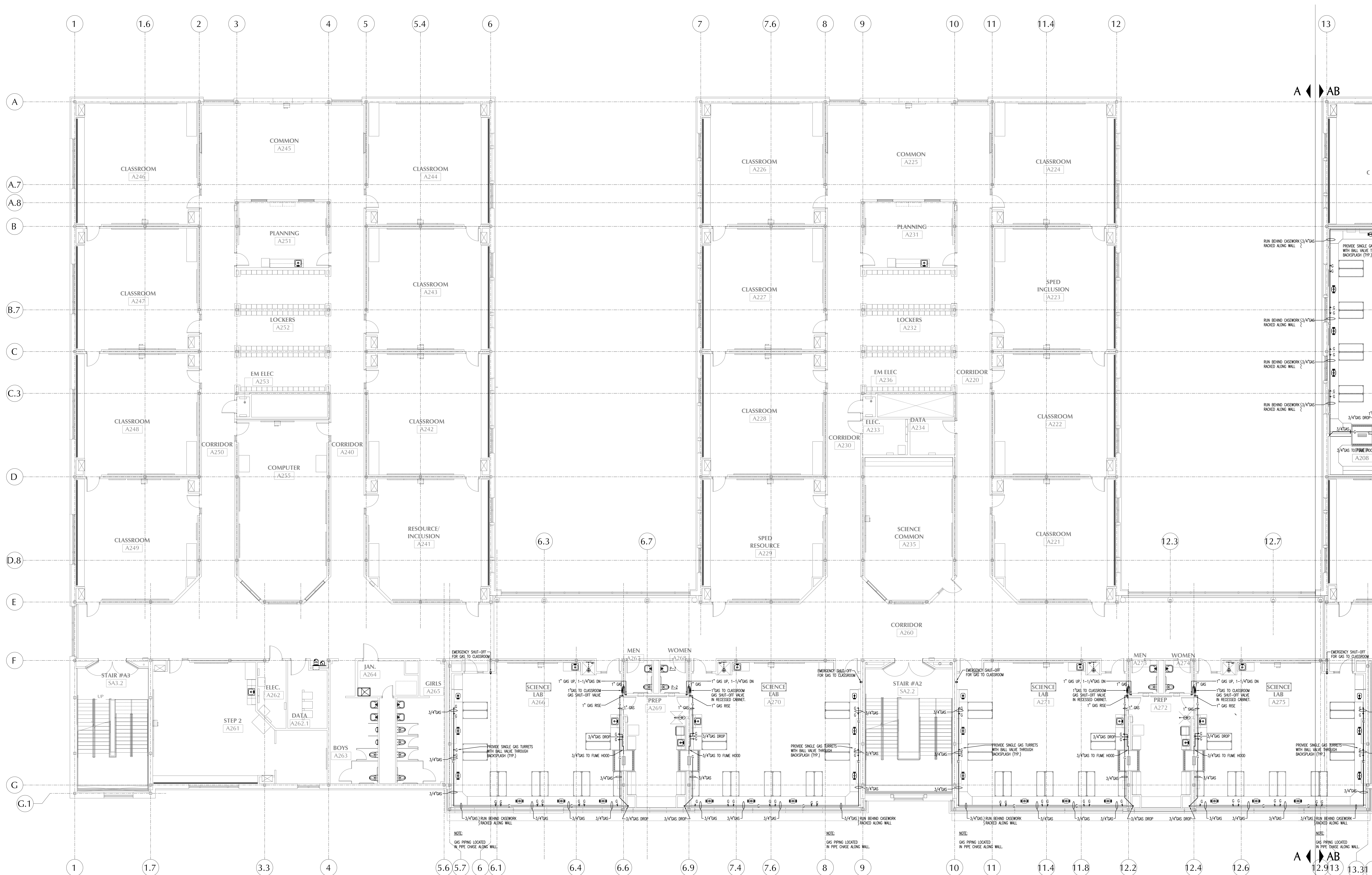
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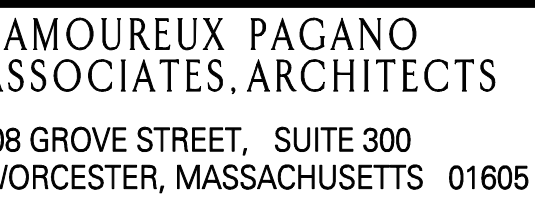
DATE: March 7, 2019

PG3.7

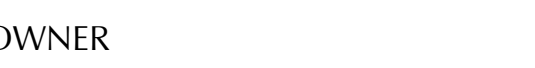


Second Floor Gas Piping Plumbing Plan Section A

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



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FINAL BID PACKAGE

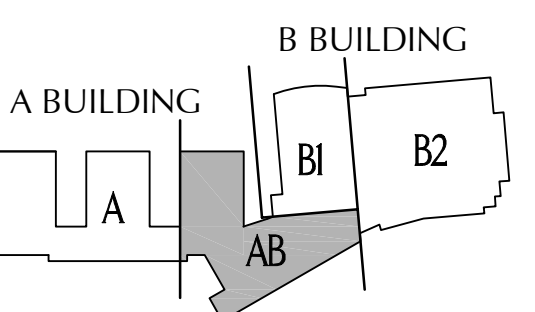
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Second Floor
Gas Piping
Plumbing Plan
Section AB

Key Plan



REVISIONS

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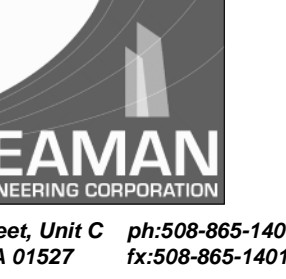
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AVN. BY: CDR	IOB NO: #1611
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RD. BY: KRS	SCALE: 1/8" = 1'-0"
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PG3.8

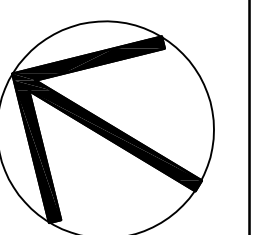
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PROJECT
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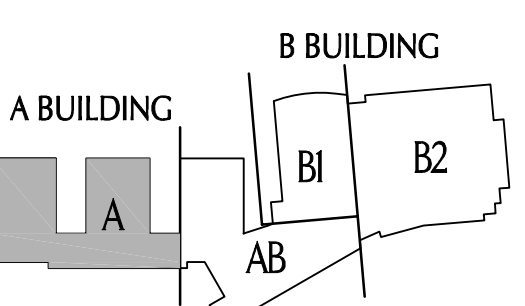
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Third Floor
Gas Piping
Plumbing Plan
Section A

Key Plan



REVISIONS

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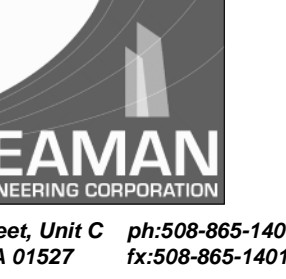
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AVN. BY: CDR	JOB NO: #1611
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KD. BY: KRS	SCALE: 1/8" = 1'-0"
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DATE: March 7, 2019

PG3.11

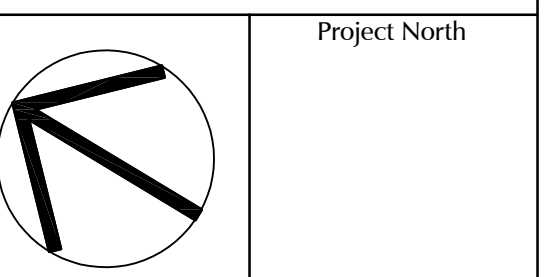
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Worcester, MA



PROJECT
FINAL BID PACKAGE

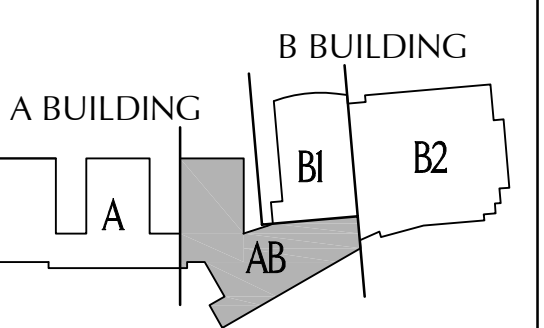
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE	
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Third Floor
Gas Piping
Plumbing Plan
Section AB

Key Plan



REVISIONS

[illegible]

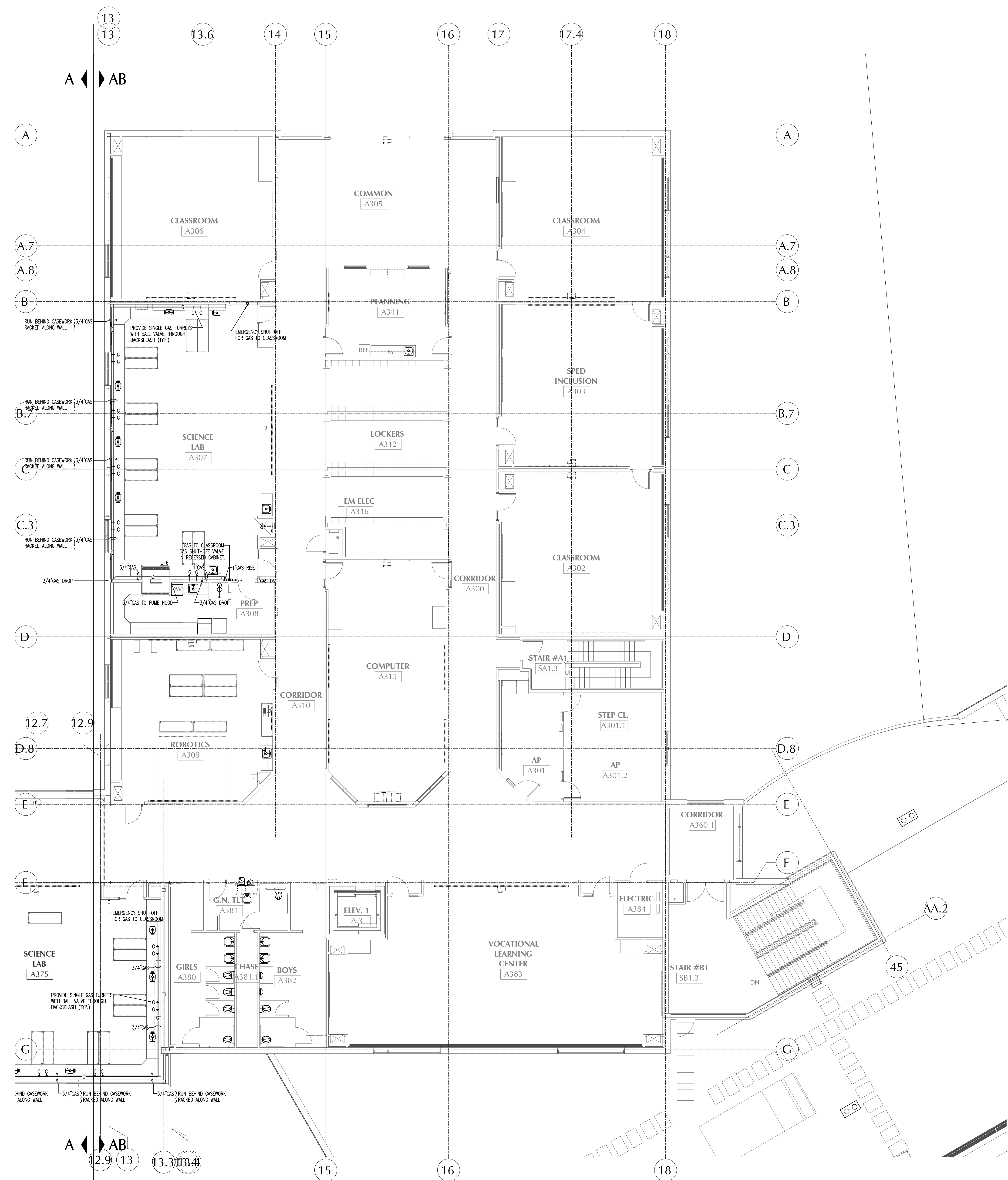
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AVN. BY: CDR	JOB NO: #1611
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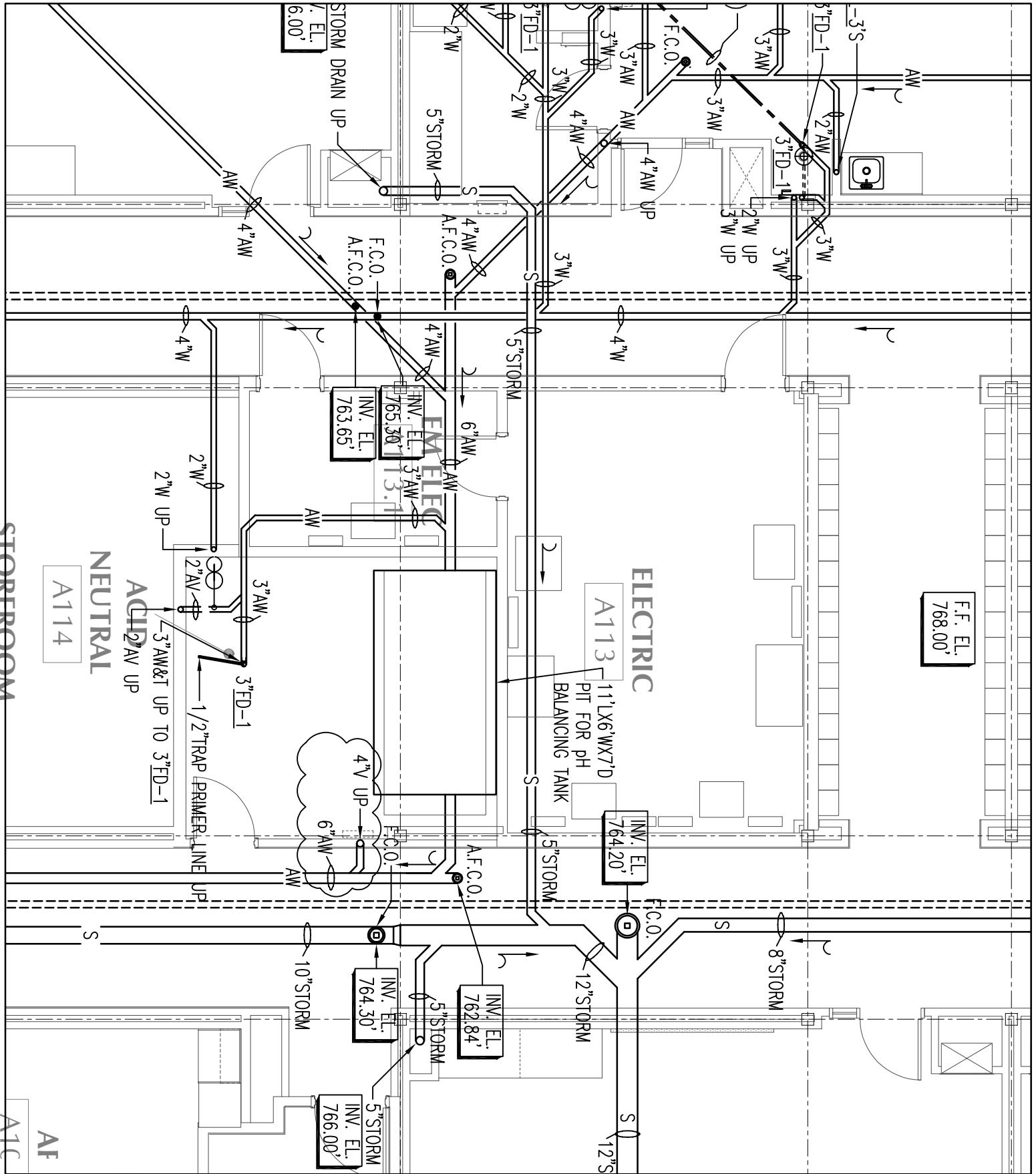
KD. BY: KRS	SCALE: 1/8" = 1'-0"
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DATE: March 7, 2019

PG3.12



1 Third Floor Gas Piping Plumbing Plan Section AB
PG3.12 Scale: 1/8" = 1'-0"



STOREROOM

NEUTRAL

ACIP 2" AW UP

A114

ELECTRIC

A113

11'x6'x7'D
PIT FOR pH
BALANCING TANK

F.F. EL.
768.00'

INV. EL.
764.20'

INV. EL.
762.84'

INV. EL.
764.30'

INV. EL.
766.00'

CLIENT INFORMATION:

Worcester Public Schools



City of Worcester
Massachusetts, 01605

PROJECT TITLE:

FINAL BID PACKAGE

South High
Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:

First Floor Below Grade Plumbing
Plan Section AB

DATE:

3/7/19

SCALE:

$\frac{1}{8}" = 1'-0"$

REFERENCE:

SHEET REF. NO.

P2.4

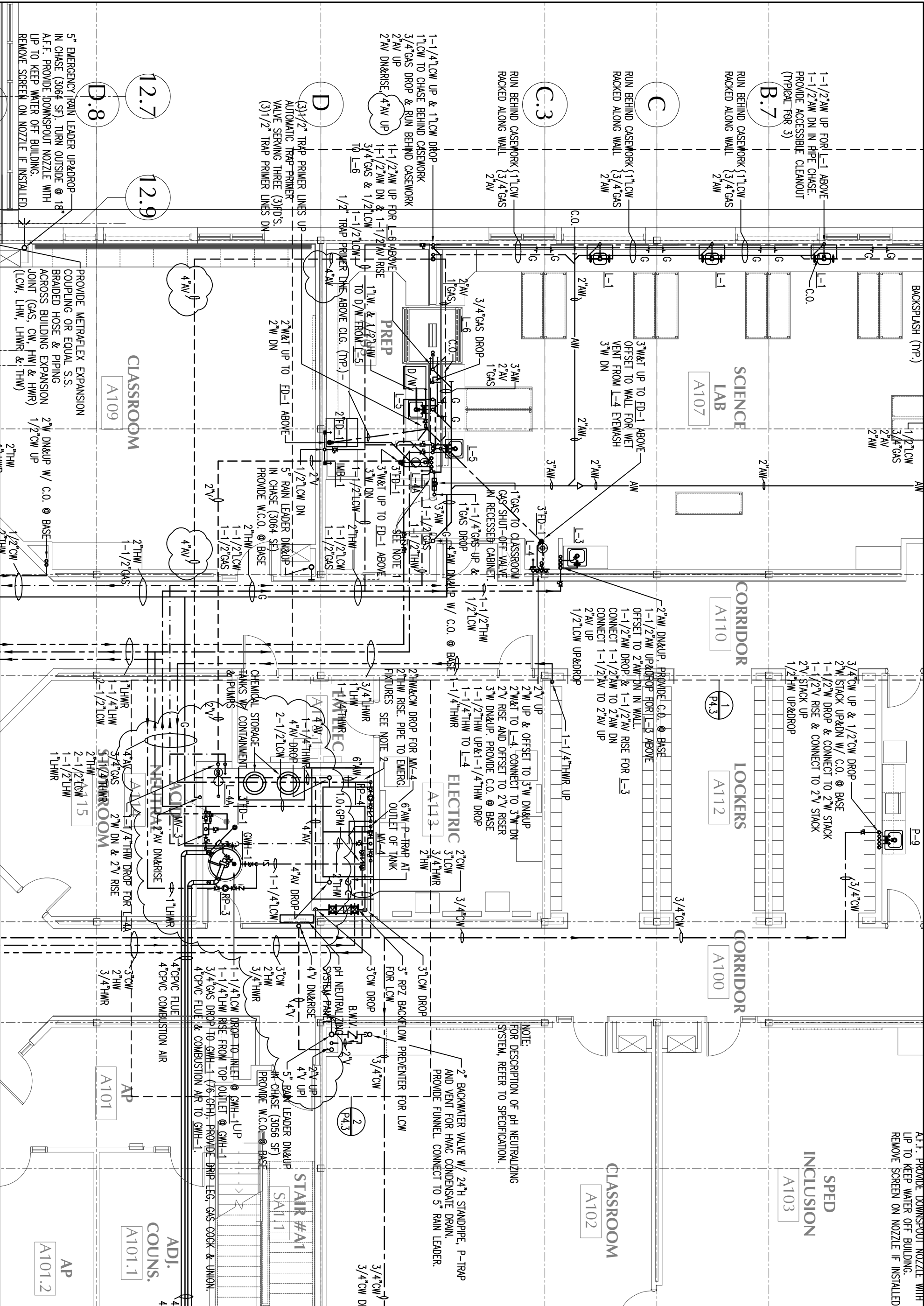
DRAWING NUMBER:

ADD-9
P-007



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WORCESTER, MASSACHUSETTS 01605

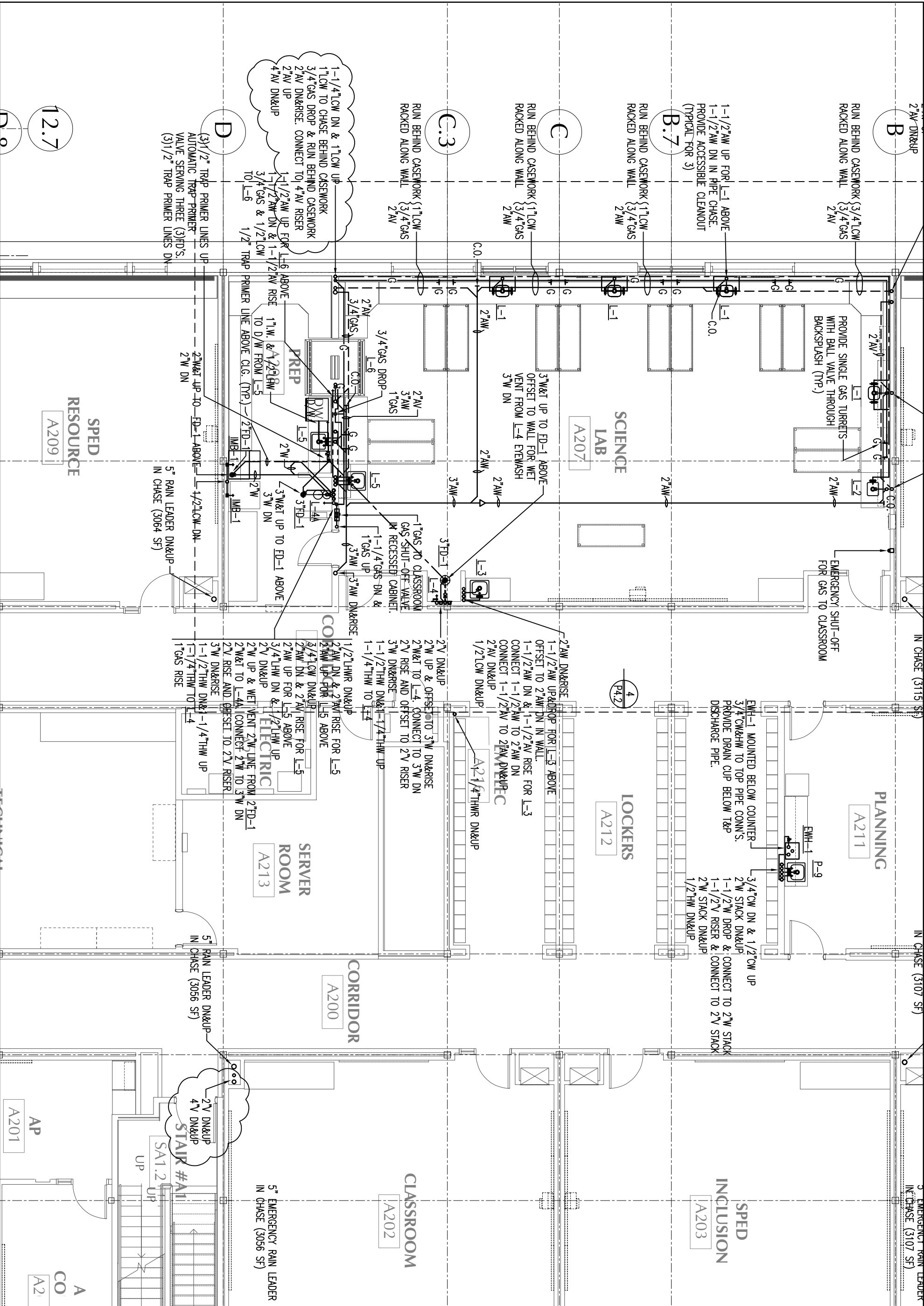
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DRAWING NAME: First Floor Above Grade Plumbing Plan Section AB		SHEET REF. NO. P3.4	
DATE: 3/7/19		DRAWING NUMBER: ADD-9 P-008	
SCALE: 1/8" = 1'-0"			

CLIENT INFORMATION: Worcester Public Schools	PROJECT TITLE: FINAL BID PACKAGE
 City of Worcester Massachusetts, 01605	South High Community School
170 Apricot Street, Worcester, MA 01603	

 LAMOREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools
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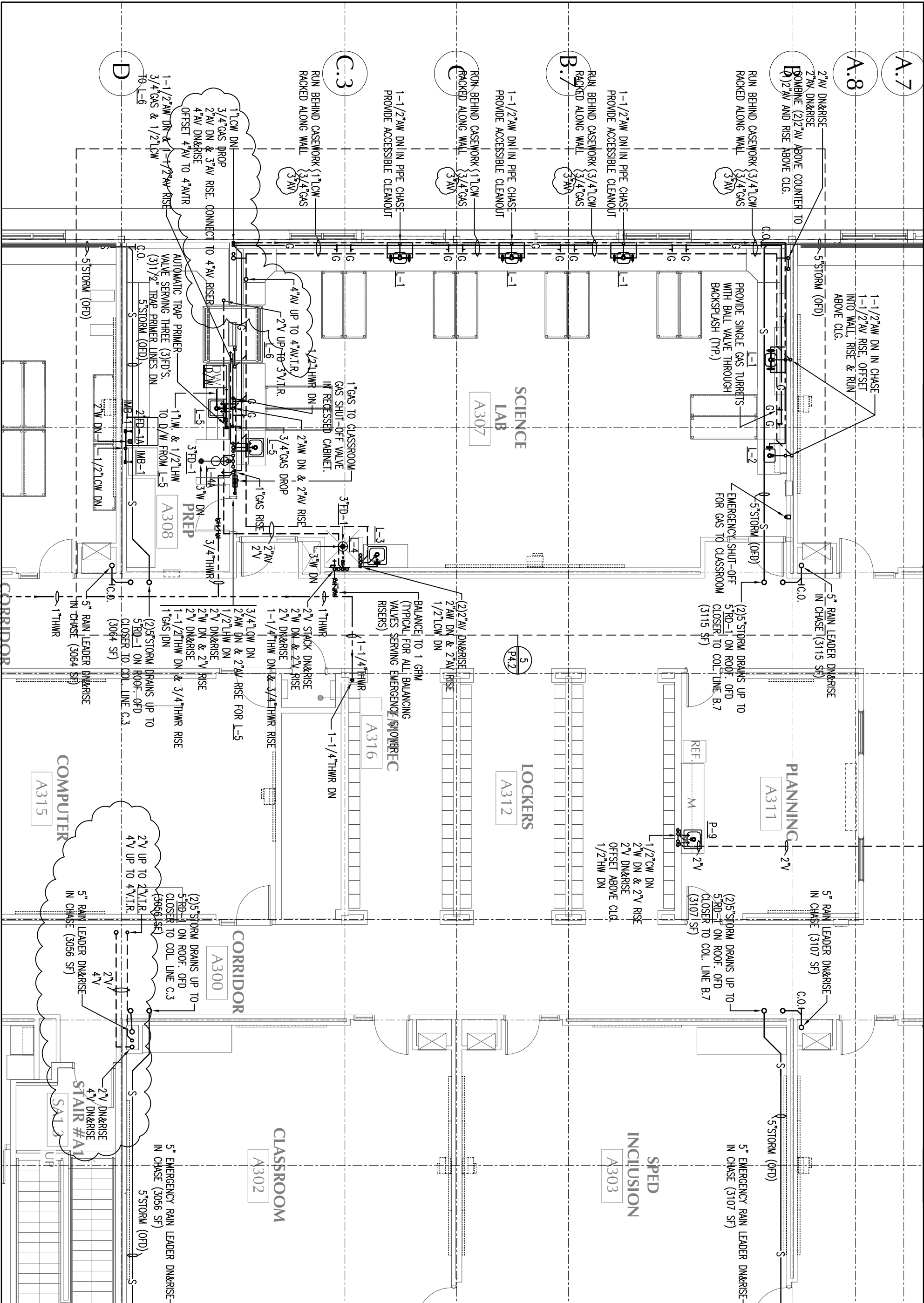


<div>CLIENT INFORMATION:</div> <div>Worcester Public Schools</div> <div><div>City of Worcester Massachusetts, 01605</div></div>		<div>PROJECT TITLE:</div> <div>FINAL BID PACKAGE</div> <div>South High Community School</div> <div>170 Apricot Street, Worcester, MA 01603</div>		<div>DRAWING NAME:</div> <div>Second Floor Above Grade Plumbing Plan Section AB</div> <div>DATE: 3/7/19</div> <div>SCALE: 1/8" = 1'-0"</div>		<div>SHEET REF. NO.</div> <div>P3.8</div> <div>DRAWING NUMBER:</div> <div>ADD-9 P-009</div>
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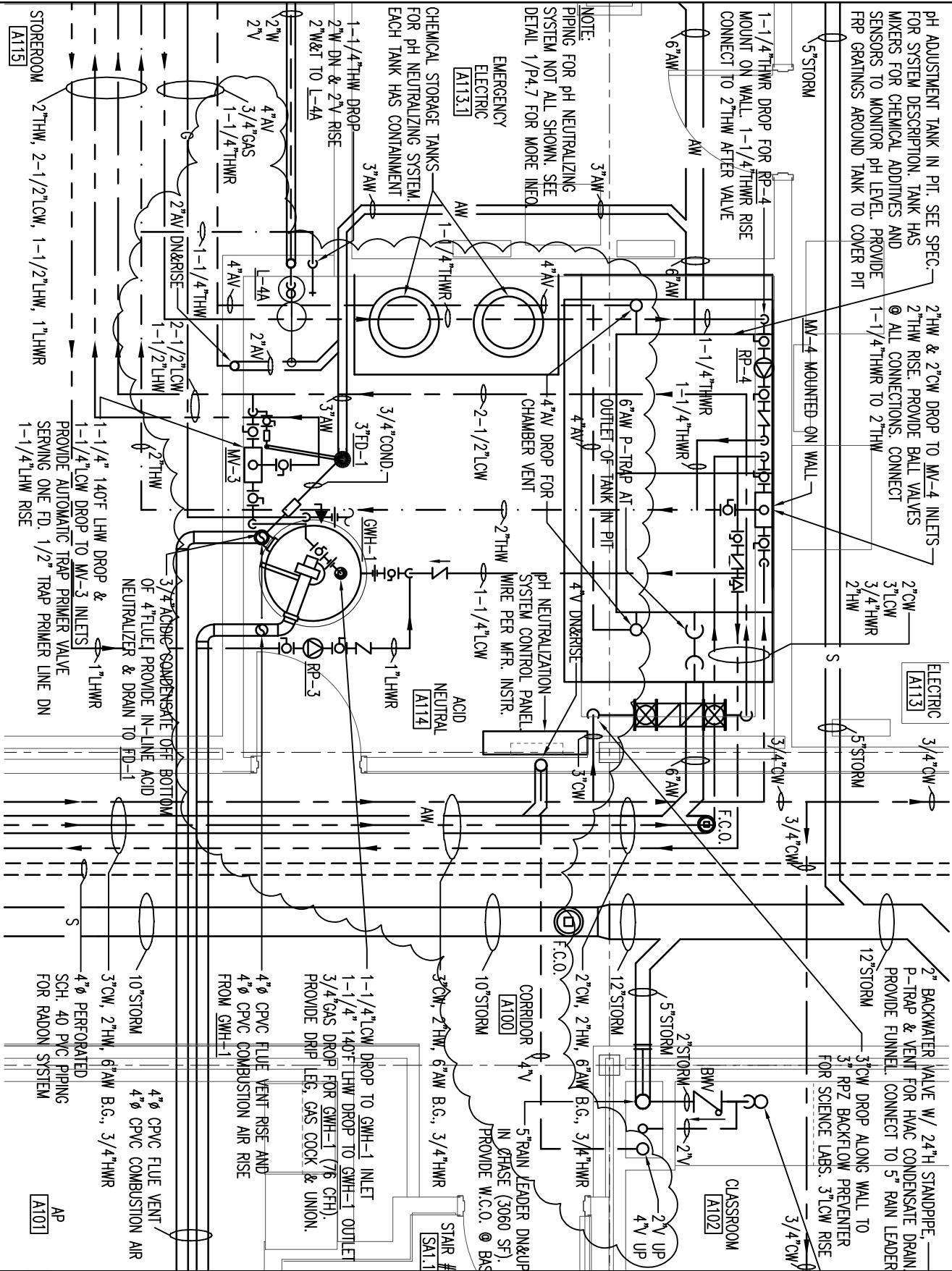


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WORCESTER,
MASSACHUSETTS
01605

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CLIENT INFORMATION: Worcester Public Schools		PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	
DRAWING NAME: Third Floor Above Grade Plumbing Plan Section AB		SHEET REF. NO. P3.12	
DATE: 3/7/19		DRAWING NUMBER: ADD-9	
SCALE: 1/8" = 1'-0"		P-010	



CLIENT INFORMATION:

Worcester Public Schools



City of Worcester
Massachusetts, 01605

PROJECT TITLE:

FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:

Partial First Floor Plumbing Plan
Section AB

DATE:

3/7/19

SCALE:

1" = 1'-0"

REFERENCE:

2/P4.3

SHEET REF. NO.

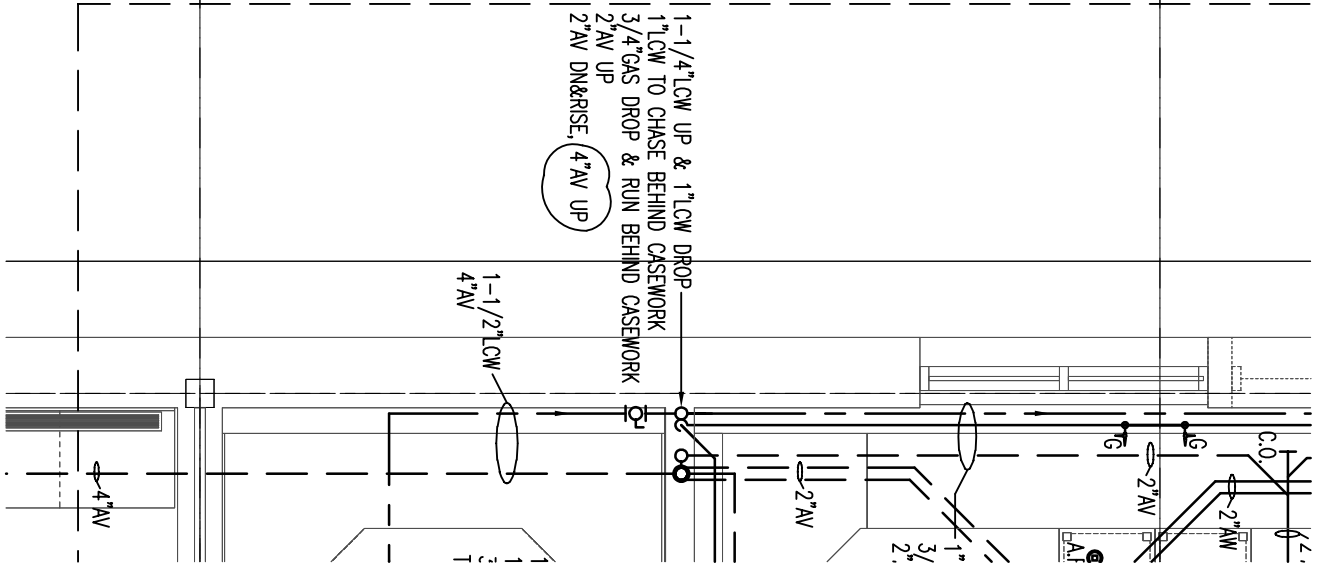
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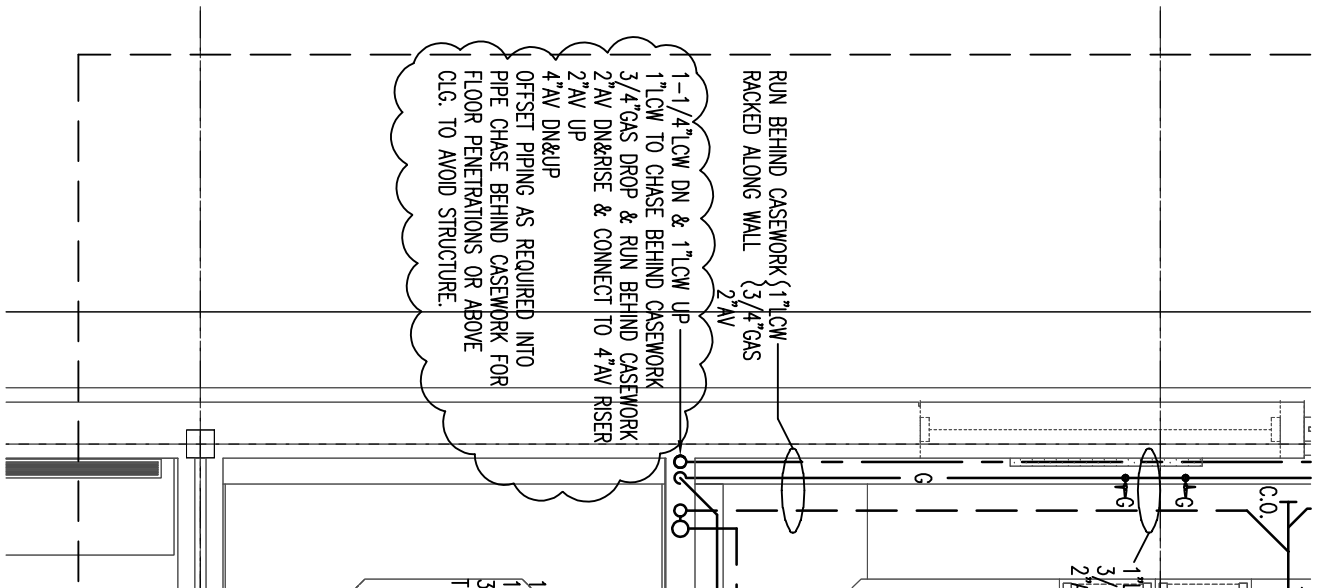
ADD-9
P-011

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First Floor Plumbing Plan Section AB




Second Floor Plumbing Plan Section AB

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CLIENT INFORMATION:
Worcester Public Schools

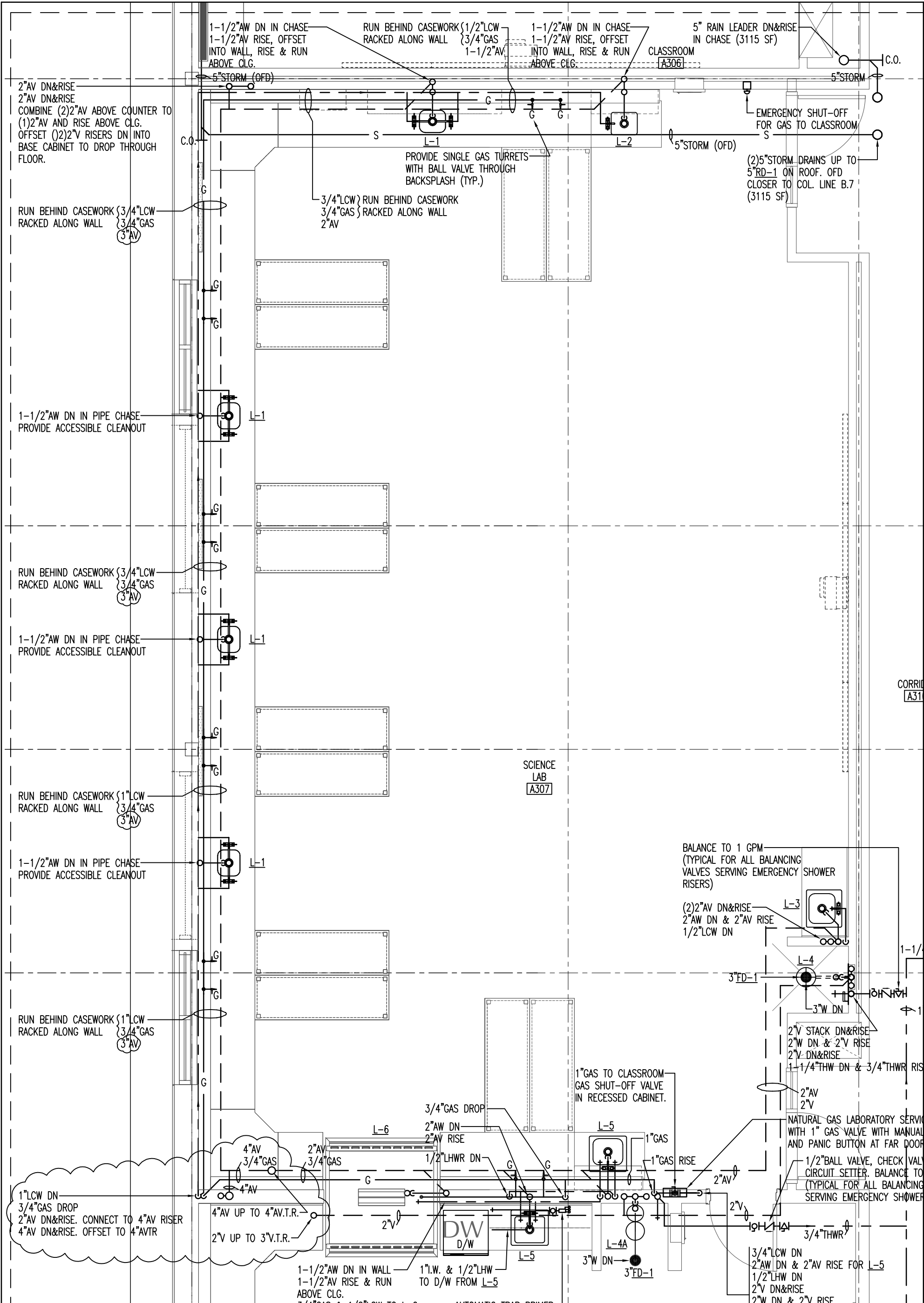


City of Worcester
 Massachusetts, 01605

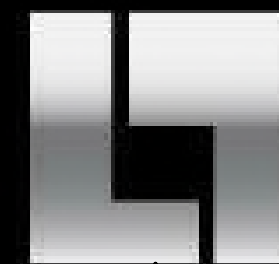
PROJECT TITLE:
 FINAL BID PACKAGE

South High Community School
 170 Apricot Street, Worcester, MA 01603

DRAWING NAME: Partial First & Second Floor Plumbing Plans Section AB		SHEET REF. NO. P4.3+P4.2
DATE: 3/7/19	DRAWING NUMBER: ADD-9 P-012	
SCALE: 1/8" = 1'-0"		
REFERENCE: 2/P4.3		



<div></div> <div>LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605</div> <div><div>MEMBER OF</div><div>THE AMERICAN INSTITUTE OF ARCHITECTS</div></div>	<div></div> <div>City of Worcester Massachusetts, 01605</div>	CLIENT INFORMATION: Worcester Public Schools	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Partial Third Floor Plumbing Plan Section AB		SHEET REF. NO. P4.2
		DATE: 3/7/19		DRAWING NUMBER: ADD-9 P-013		
		SCALE: 1/8" = 1'-0"				
		REFERENCE: 5/P4.2				



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108 GROVE STREET, SUITE 300
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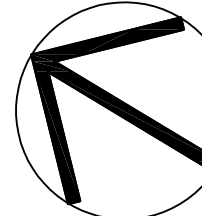
OWNER

Worcester Public
Schools



Worcester, MA

Project North



PROJECT
FINAL BID PACKAGE

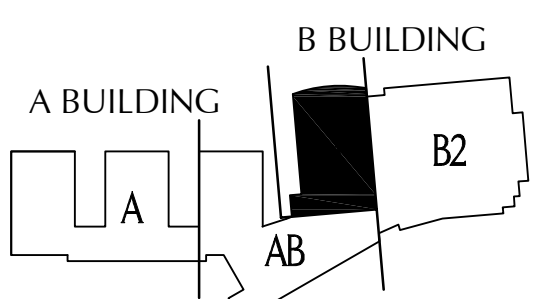
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

First Floor
HVAC Plan
Section B1

Key Plan

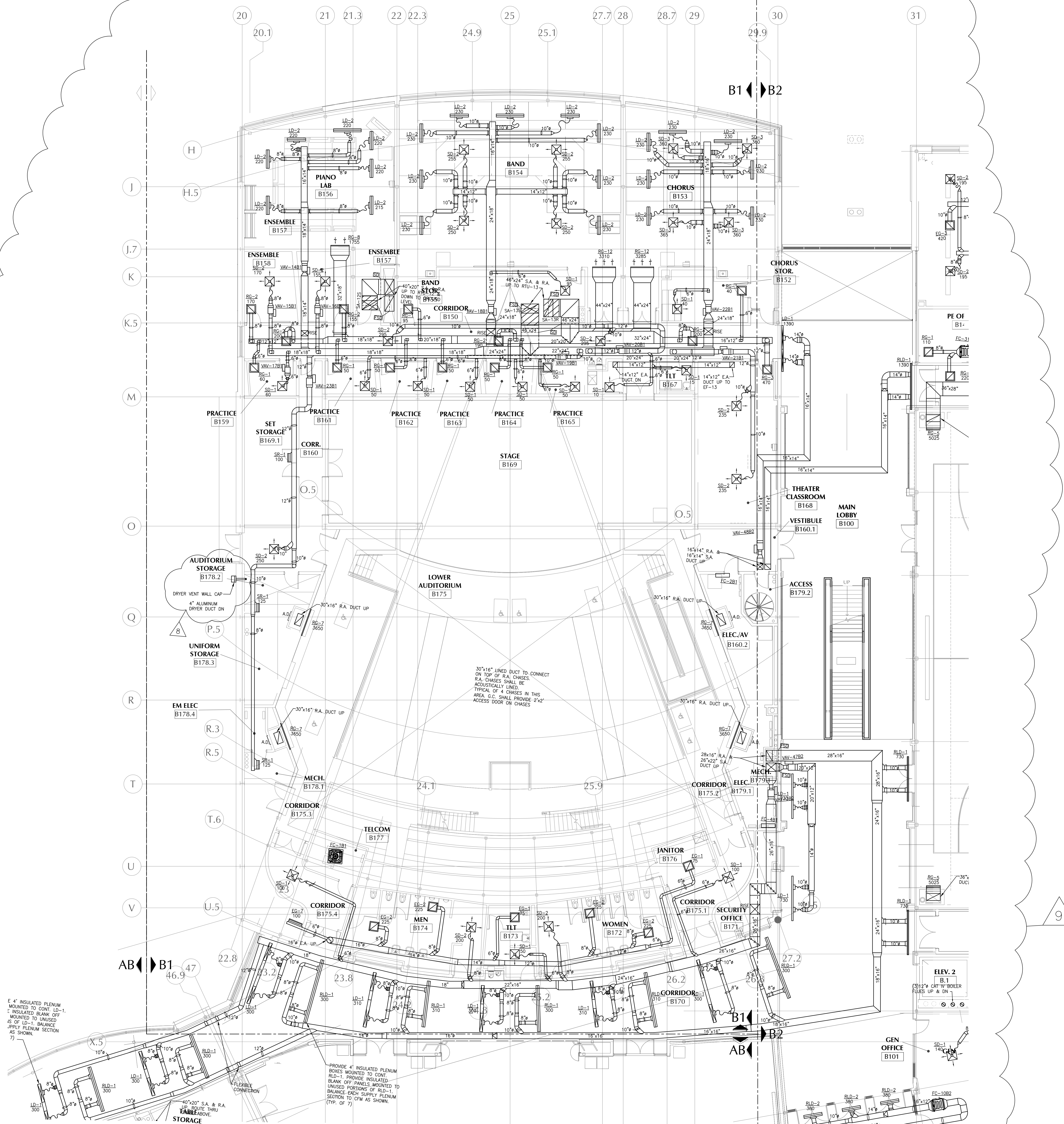


REVISIONS

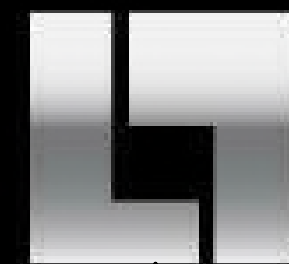
No.	Description	Date

FILE:
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CKD. BY: KRS SCALE: 1/8" = 1'-0"
DATE: January 31, 2019

H3.5

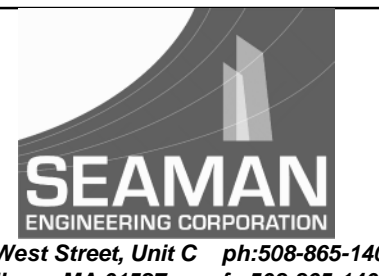


First Floor HVAC Plan - Section B1
Scale: 1/8" = 1'-0"



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WORCESTER, MASSACHUSETTS 01605

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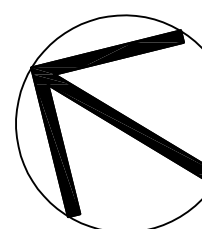
OWNER

Worcester Public
Schools



Worcester, MA

Project North



PROJECT

FINAL BID PACKAGE

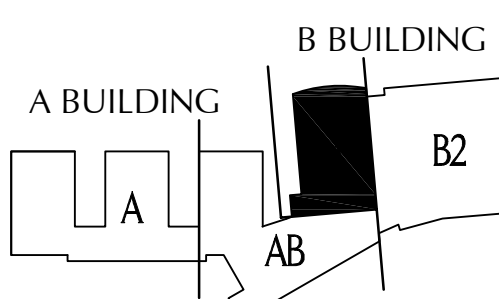
South High
Community School

170 April Street, Worcester, MA 01603

TITLE

Second Floor HVAC Plan Section B1

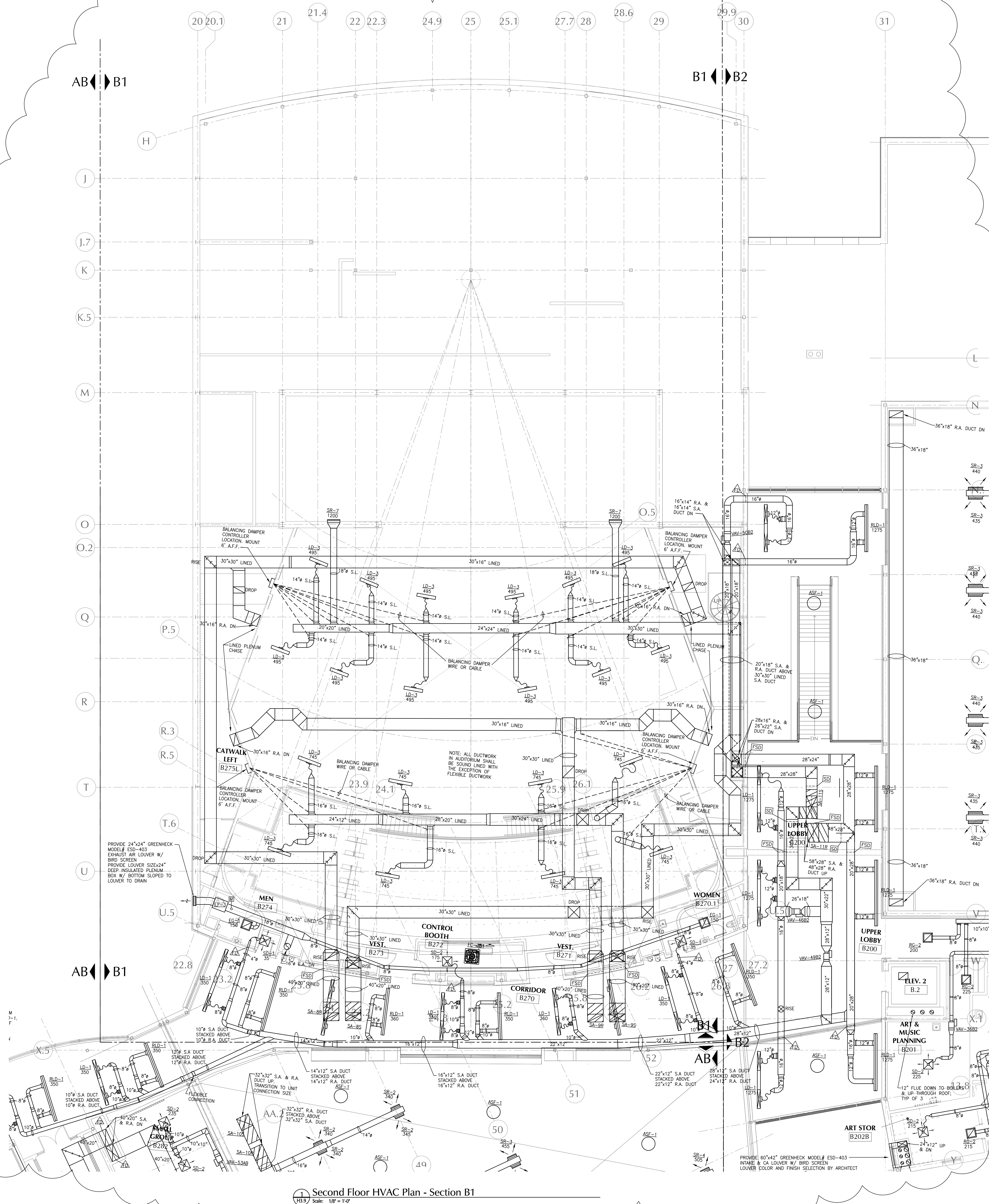
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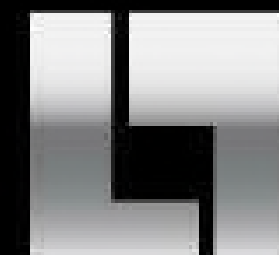
REVISIONS
No. Description Date

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DATE: January 31, 2019

H3.9

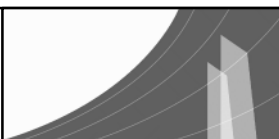


Second Floor HVAC Plan - Section B1
Scale: 1/8" = 1'-0"



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SEAMAN
ENGINEERING CORPORATION
22 West Street, Unit C ph:508-855-1400
Worcester, MA 01627 fx:508-855-1401

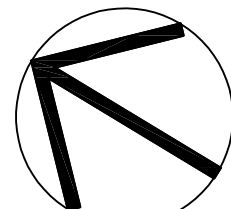
OWNER

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Worcester, MA

Project North



PROJECT
Final Bid Package

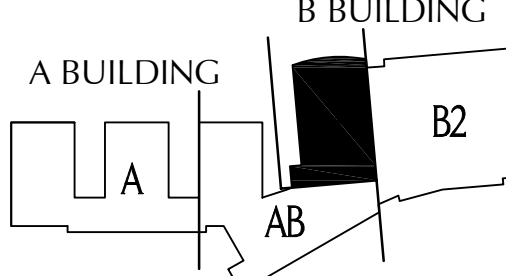
South High
Community School

170 Apricot Street, Worcester, MA 01603

TITLE

First Floor
HVAC Piping
Plan
Section B1

Key Plan



REVISIONS

No.	Description	Date

FILE:

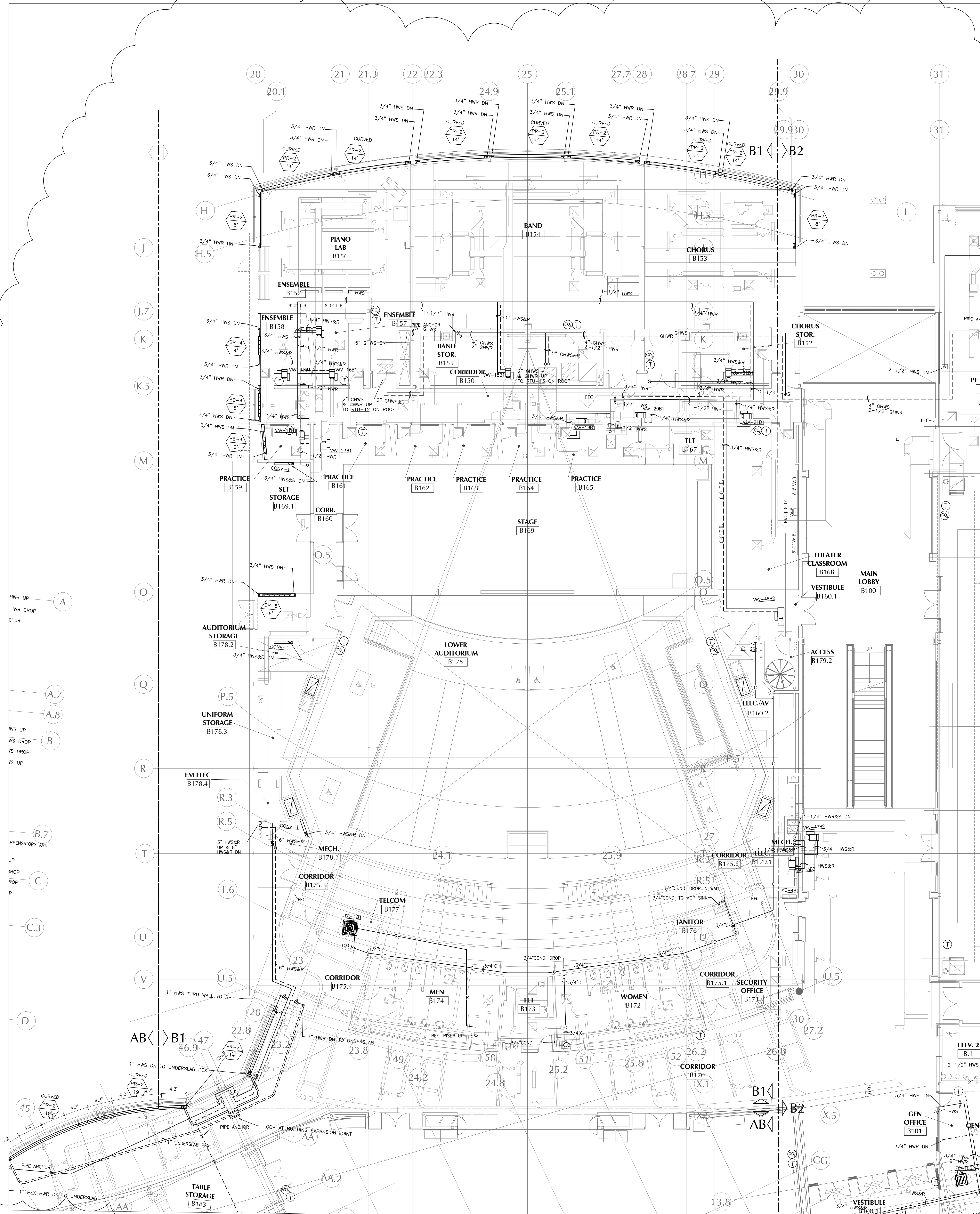
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DATE: January 31, 2019

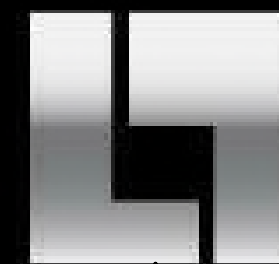
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9



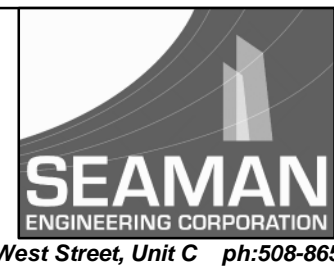
First Floor HVAC Piping Plan - Section B1

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



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108 GROVE STREET, SUITE 300
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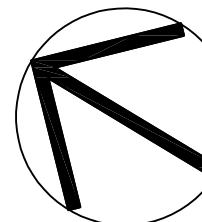
OWNER

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Worcester, MA

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PROJECT

Final Bid Package

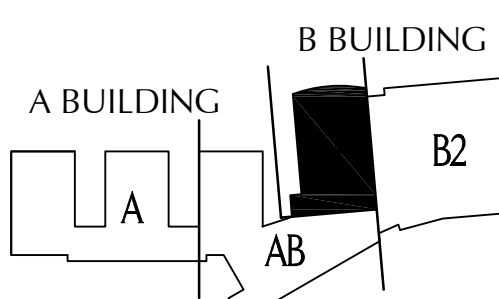
South High
Community School

170 April Street, Worcester, MA 01603

TITLE

Second Floor
HVAC Piping
Plan
Section B1

Key Plan



REVISIONS

No. Description Date

FILE:

DWN. BY: DBM

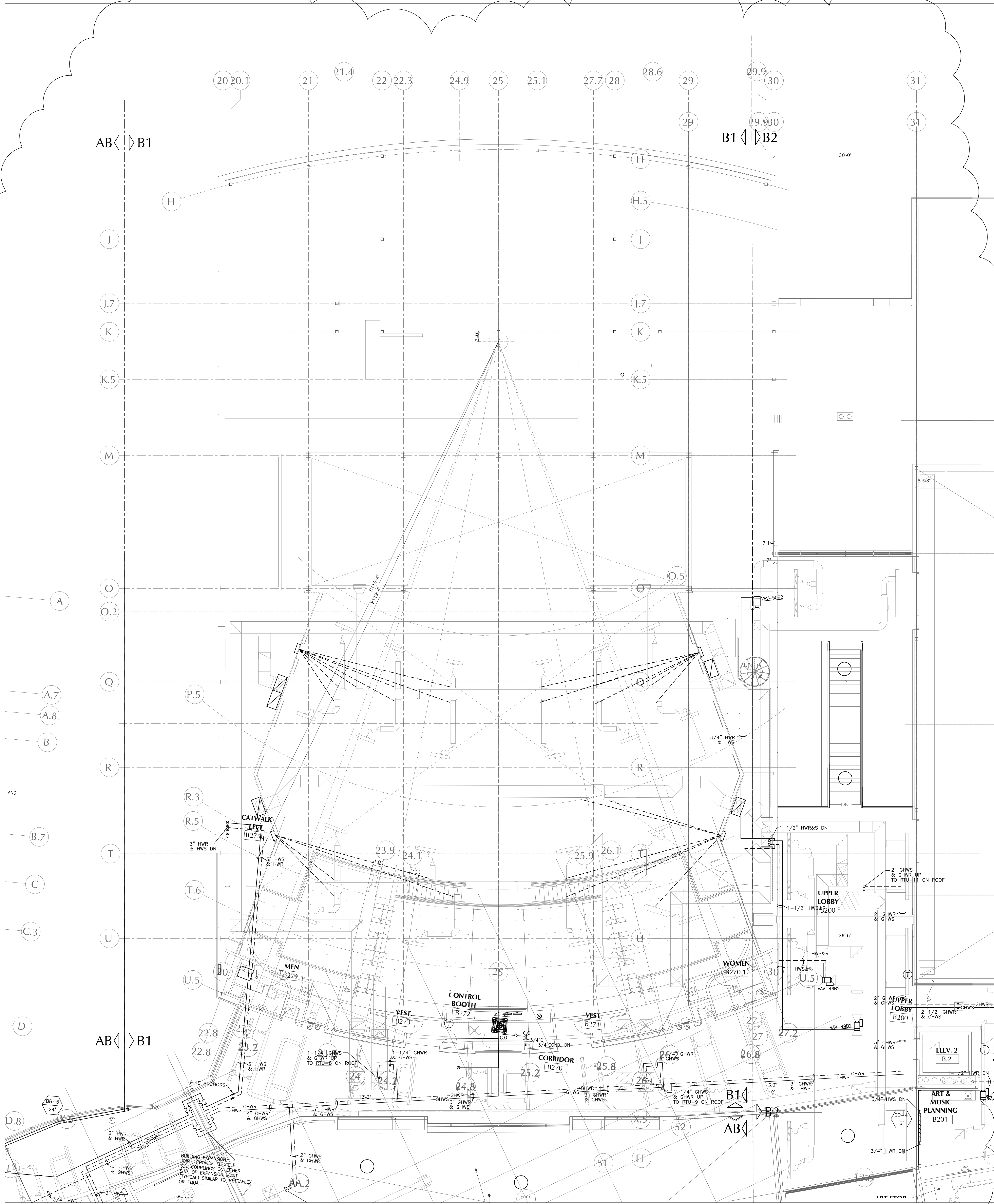
JOB NO: #1611

CKD. BY: KRS

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

DATE: January 31, 2019

H4.9



Second Floor HVAC Piping Plan - Section B1

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

DISPLACEMENT DIFFUSER
SCHEDULE

KEY	DD-1	DD-2	DD-3	DD-4	DD-5
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE
MODEL	DFW	DF1L-HC	DFC	DFC	DF1L-HC
NECK SIZE	-	-	-	-	-
MODULE SIZE	30"x48"-16"D	24"x24"	24"x24"	24"x48"	24"x48"
BORDER	SURFACE	LAY-IN	LAY-IN	LAY-IN	LAY-IN
FINISH	SEE NOTE 4	SEE NOTE 4	SEE NOTE 4	SEE NOTE 4	SEE NOTE 4
THROW PATTERN	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
DAMPER	NONE	NONE	NONE	NONE	NONE
NOTES	① ③ ⑤	① ②	①	①	① ②

- ① PROVIDE OPTIONAL 1/2" THICK ALUMINUM FOIL INSULATION
- ② PROVIDE ELECTRIC ACTUATOR, 24V FLOATING POINT
- ③ PROVIDE EXTENDED CUSTOM PLENUM; 20"x8" INLET SHALL BE ON TOP OR BACK; SEE PLANS. REFER TO DD-1 DETAIL.
- ④ COLOR SELECTION BY ARCHITECT
- ⑤ WALL DD SHALL BE 16 GAUGE W/ HEAVY DUTY FRAME & STIFFENERS BEHIND FACE OF DD.

SHEET REF. NO.
H7.2

DRAWING NAME:
DISPLACEMENT DIFFUSER SCHEDULE

DRAWING NUMBER:

ADD-9
H-010

DATE:
2/20/19

SCALE:
AS NOTED

170 Apricot Street, Worcester, MA 01603

South High Community School

FINAL BID PACKAGE

PROJECT TITLE:

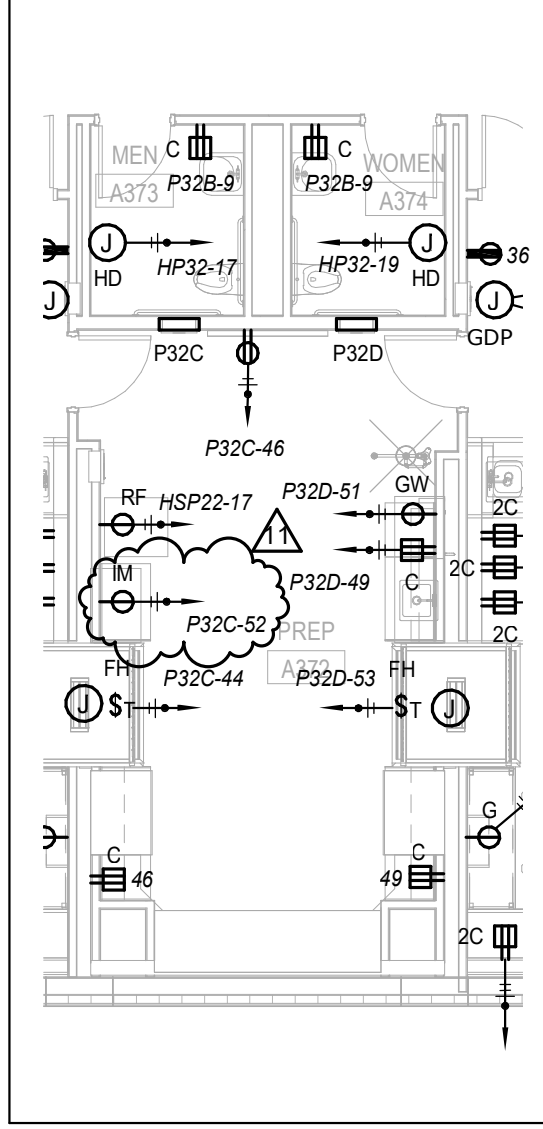
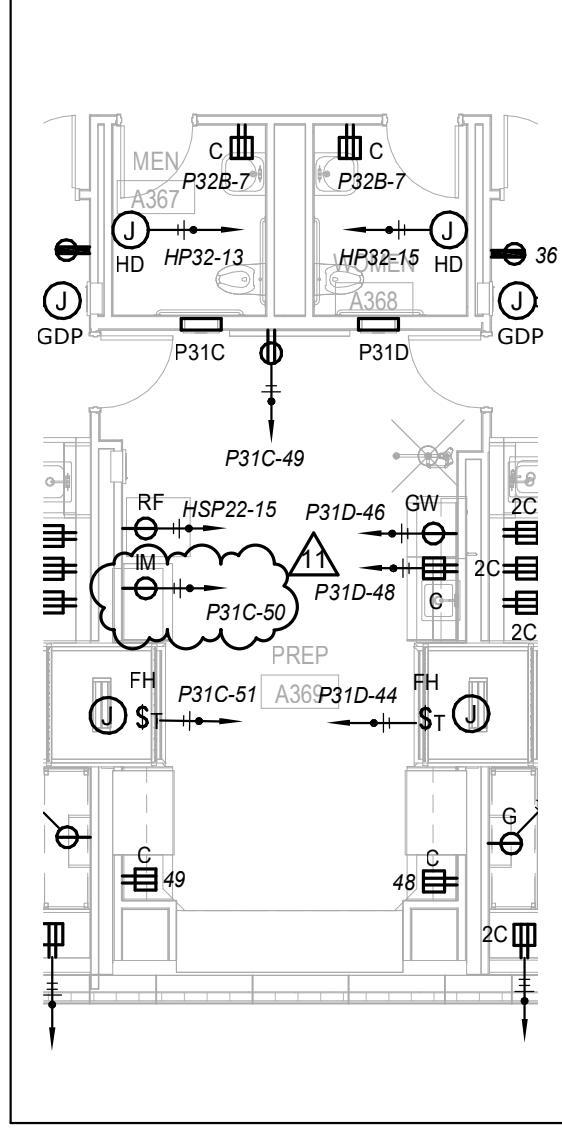
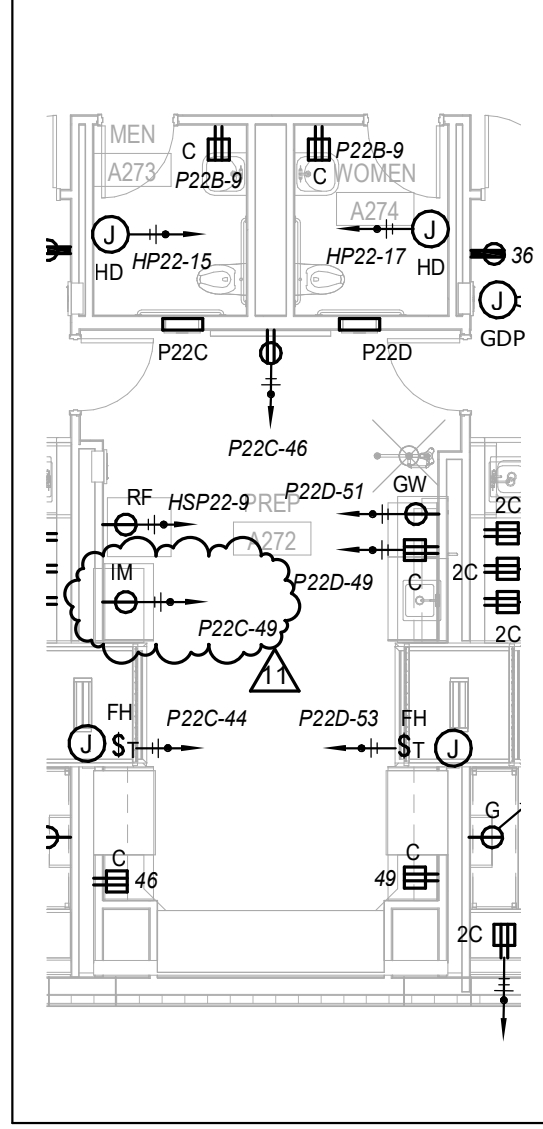
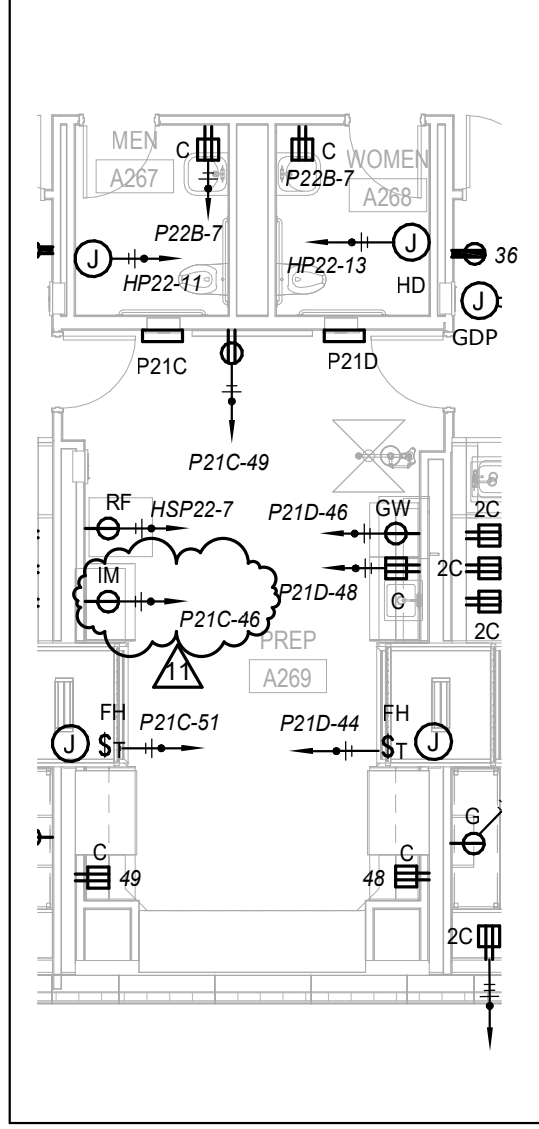
CLIENT INFORMATION:
Worcester Public Schools

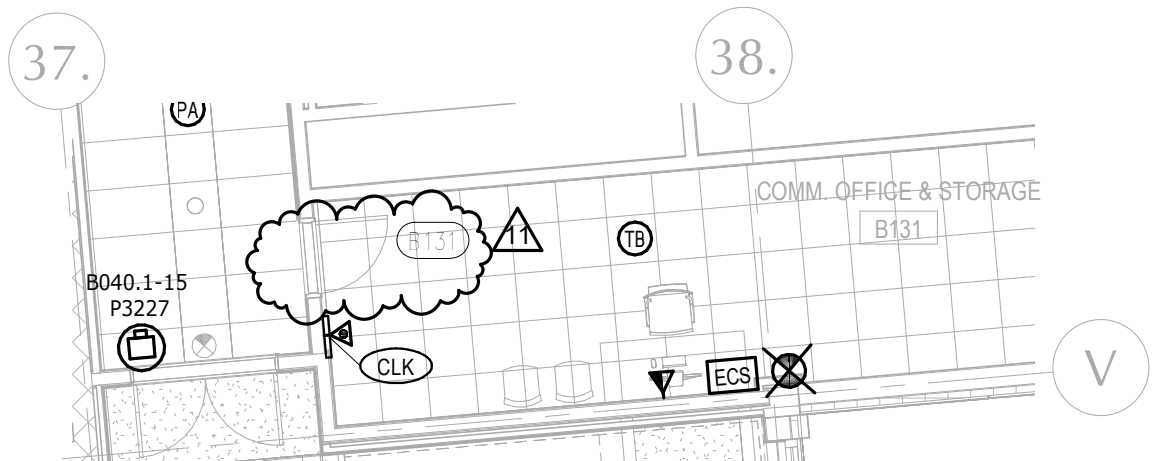
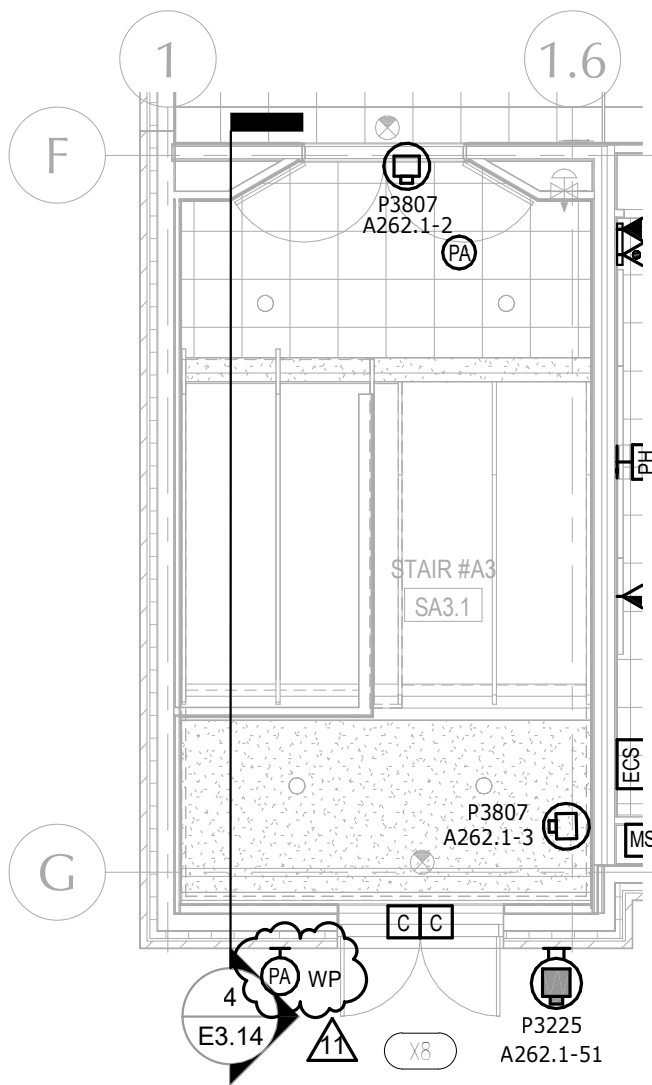


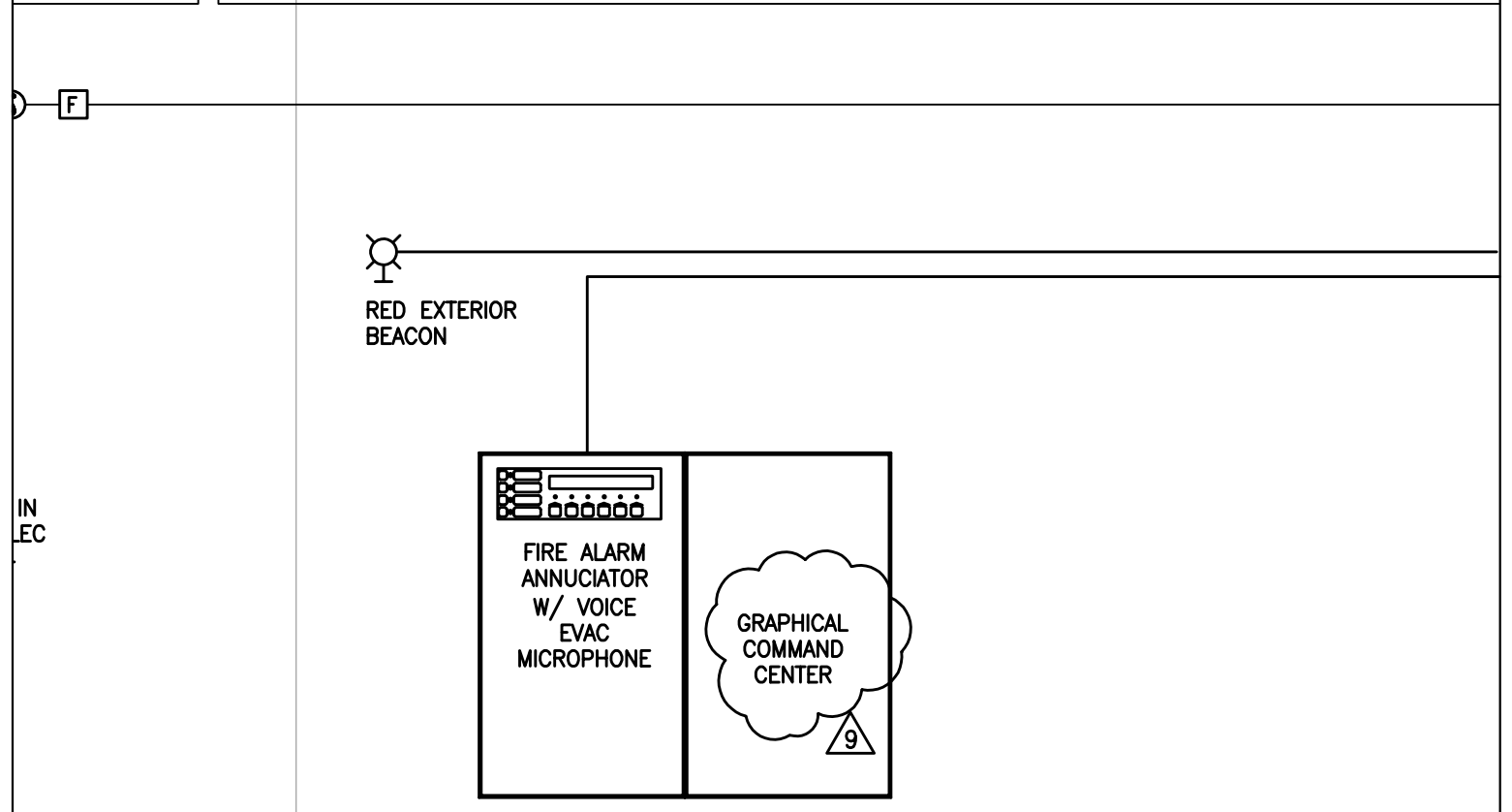
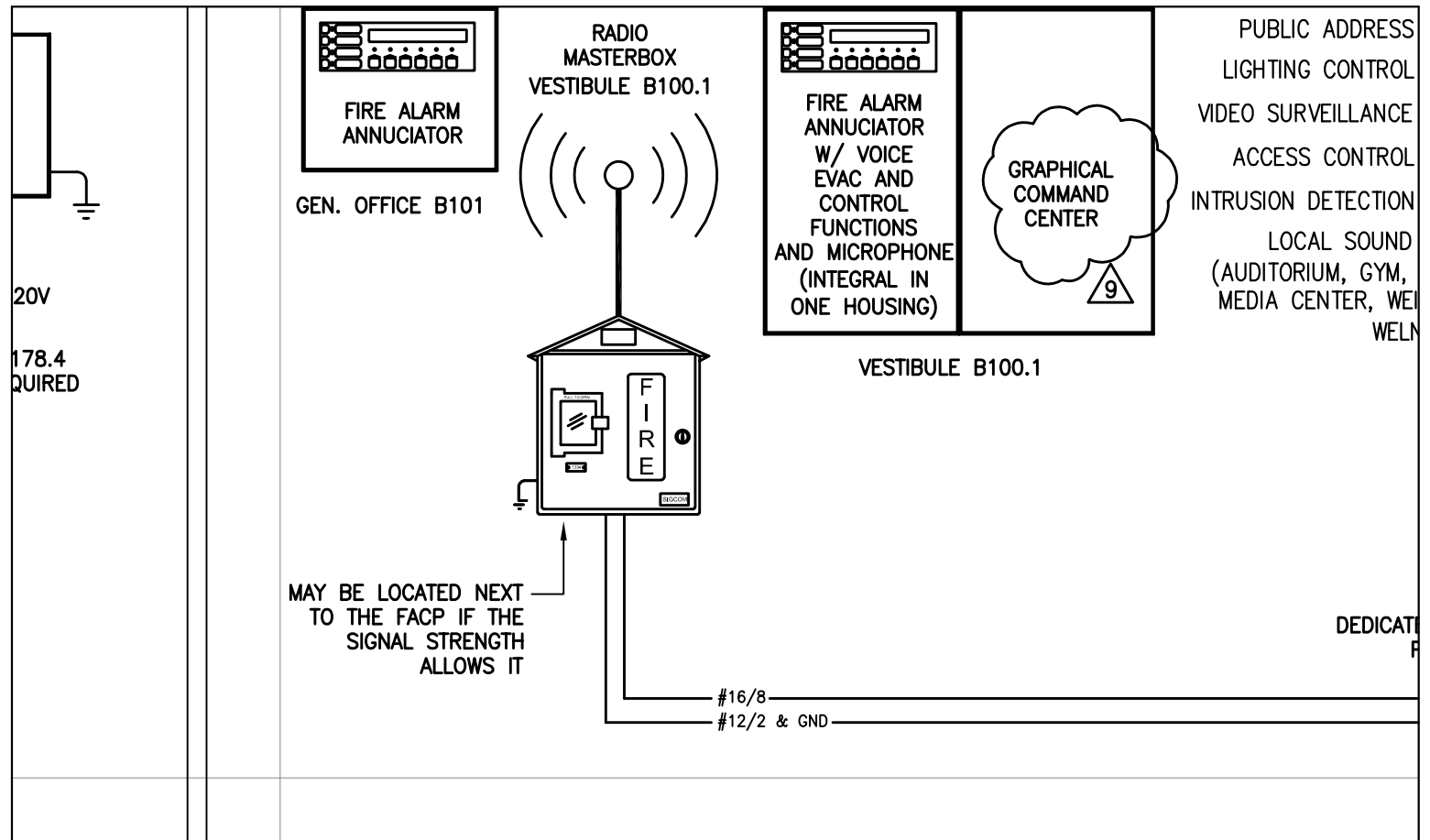
City of Worcester
Massachusetts, 01605



LAMOREUX PAGANO
ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 200
WORCESTER, MASSACHUSETTS 01605

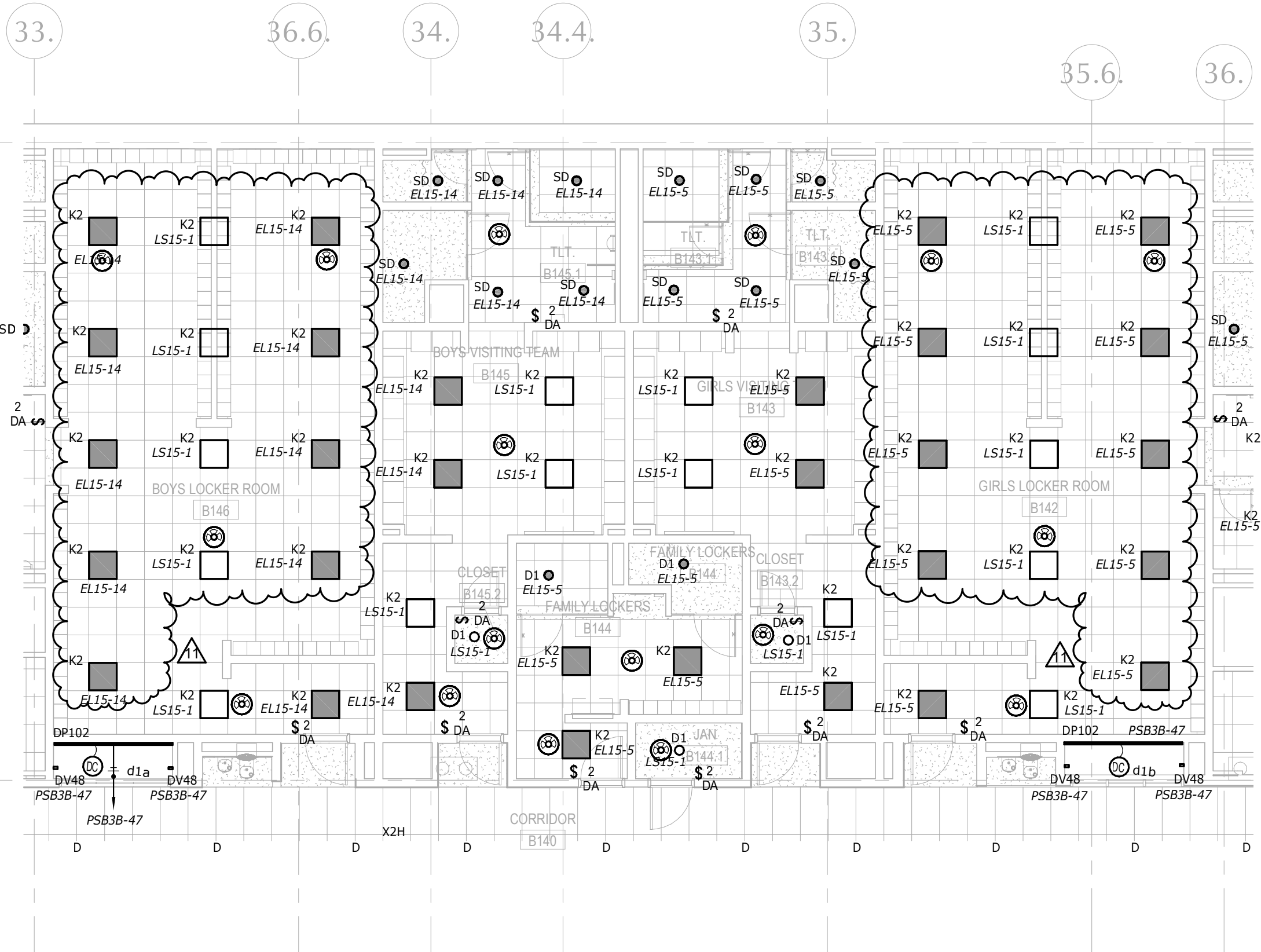
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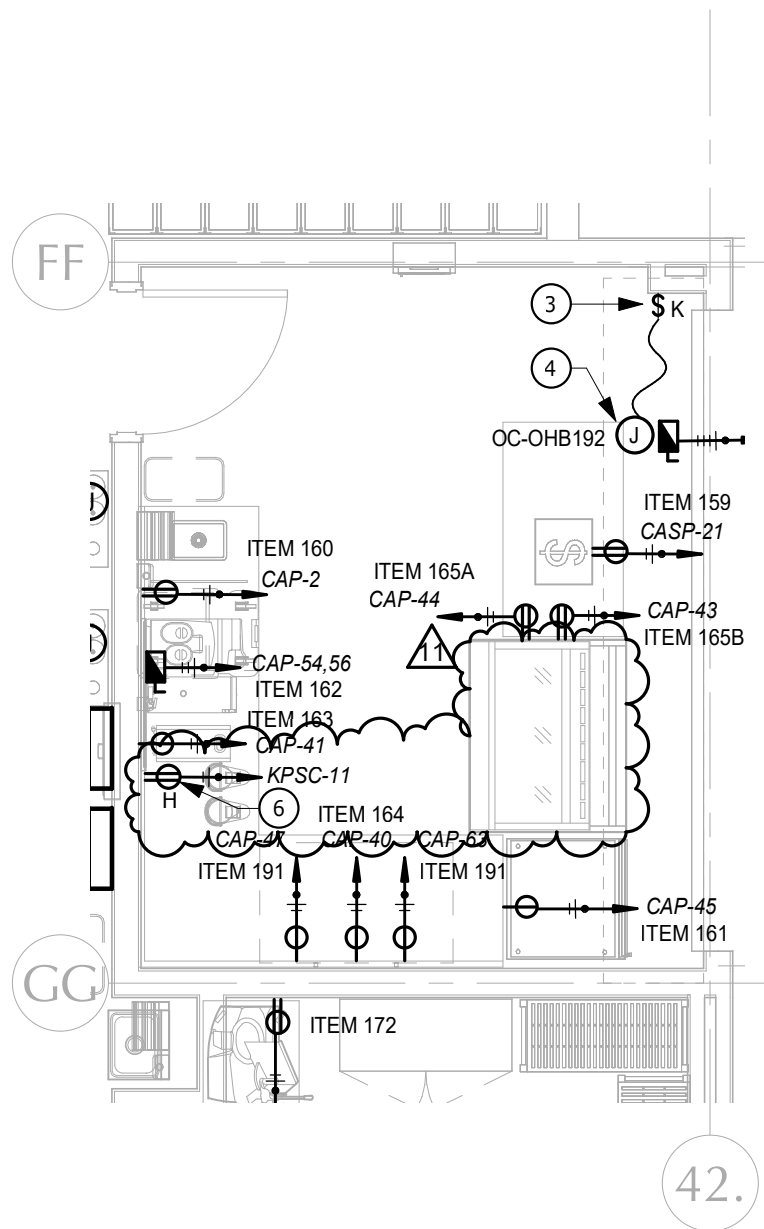


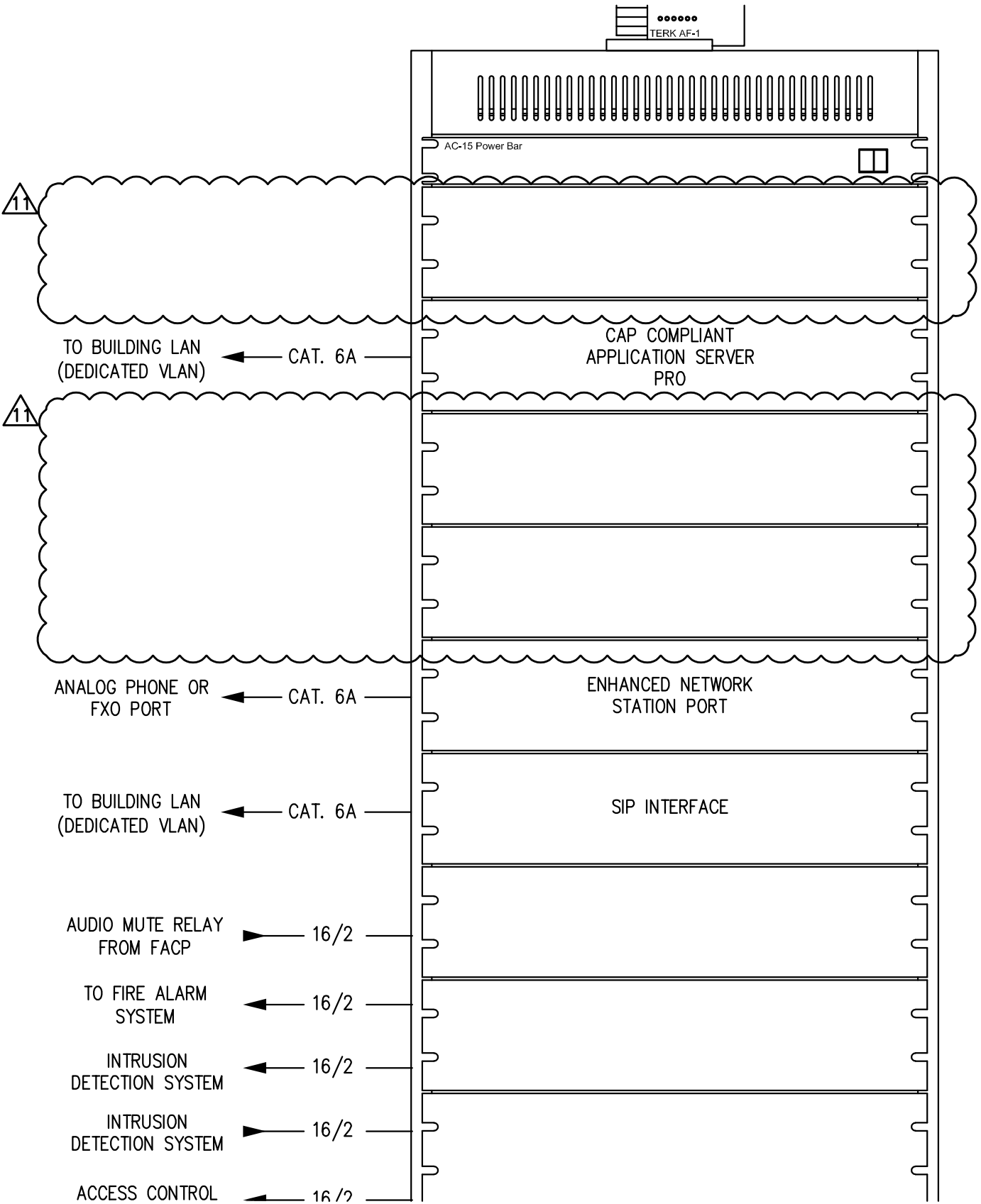


 <p>LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605</p> <p>MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS</p>	<p>CLIENT INFORMATION: Worcester Public Schools</p>  <p>City of Worcester Massachusetts, 01605</p>	<p>PROJECT TITLE: FINAL BID PACKAGE</p> <p>South High Community School</p> <p>170 Apricot Street, Worcester, MA 01603</p>	<p>DRAWING NAME: Fire Alarm - Graphical Command Center</p> <p>DATE: 03/07/19</p> <p>SCALE: NTS</p> <p>REFERENCE: Addendum #9</p>	<p>SHEET REF. NO. E8.2B</p> <p>DRAWING NUMBER: ADD-9 E-093</p>
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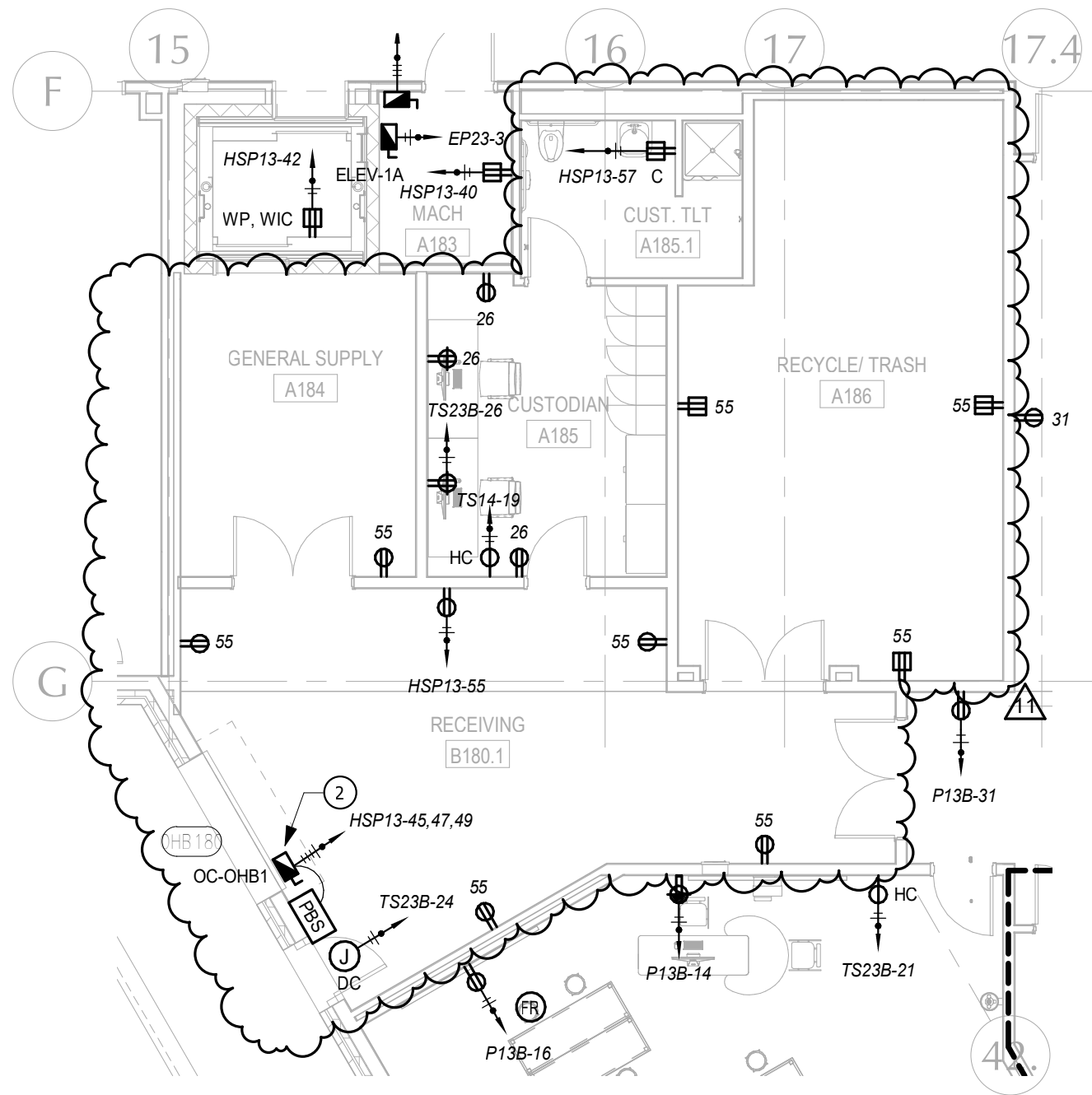


	CLIENT INFORMATION: Worcester Public Schools	PROJECT TITLE: FINAL BID PACKAGE	DRAWING NAME: Lighting - Locker Rooms	SHEET REF. NO. E1.6
			DRAWING NUMBER: ADD-9	
			DATE: 03/07/19	SCALE: 1/8" = 1'-0"
South High Community School				
170 Apricot Street, Worcester, MA 01603				
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS				

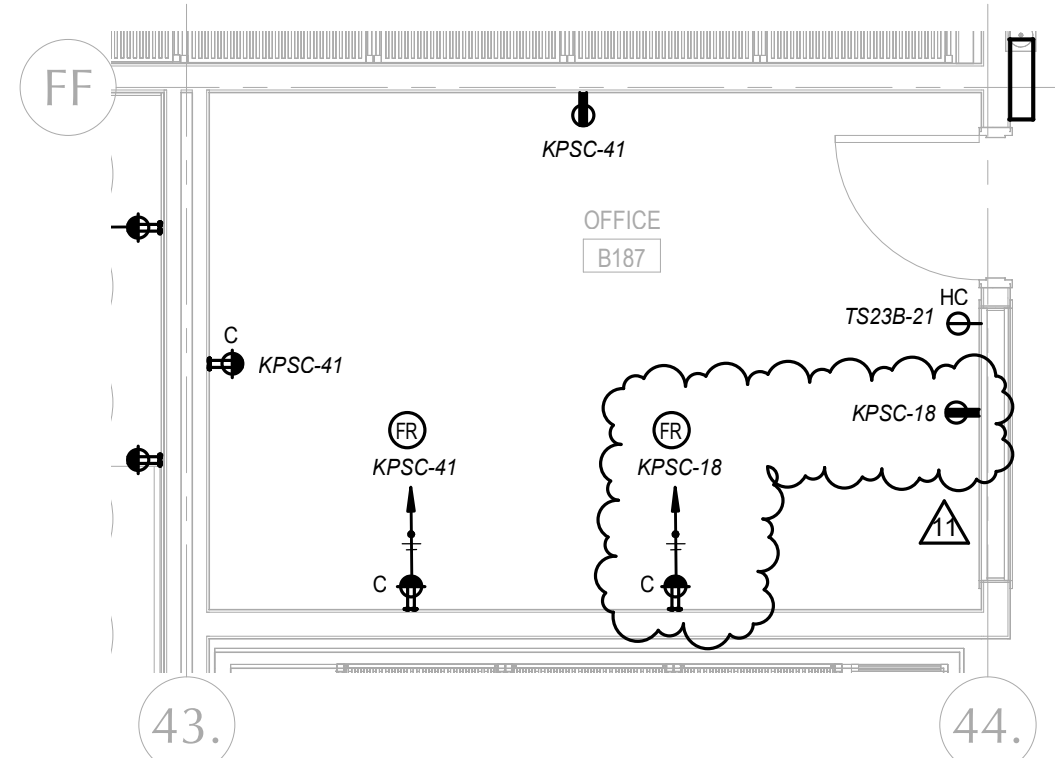




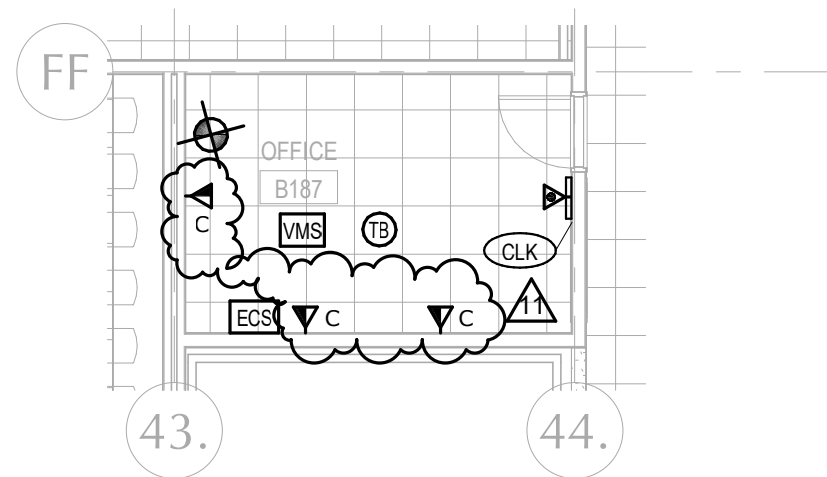
<div><div></div><div>Worcester Public Schools</div><div></div><div>City of Worcester Massachusetts, 01605</div></div>	PROJECT TITLE: FINAL BID PACKAGE		DRAWING NAME: PUBLIC ADDRESS RACK SERVERS	SHEET REF. NO. E8.6A
	South High Community School 170 Apricot Street, Worcester, MA 01603		DATE: 3/07/19	DRAWING NUMBER: ADD-9
			SCALE: N.T.S.	REFERENCE Addendum #9
E-096				



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



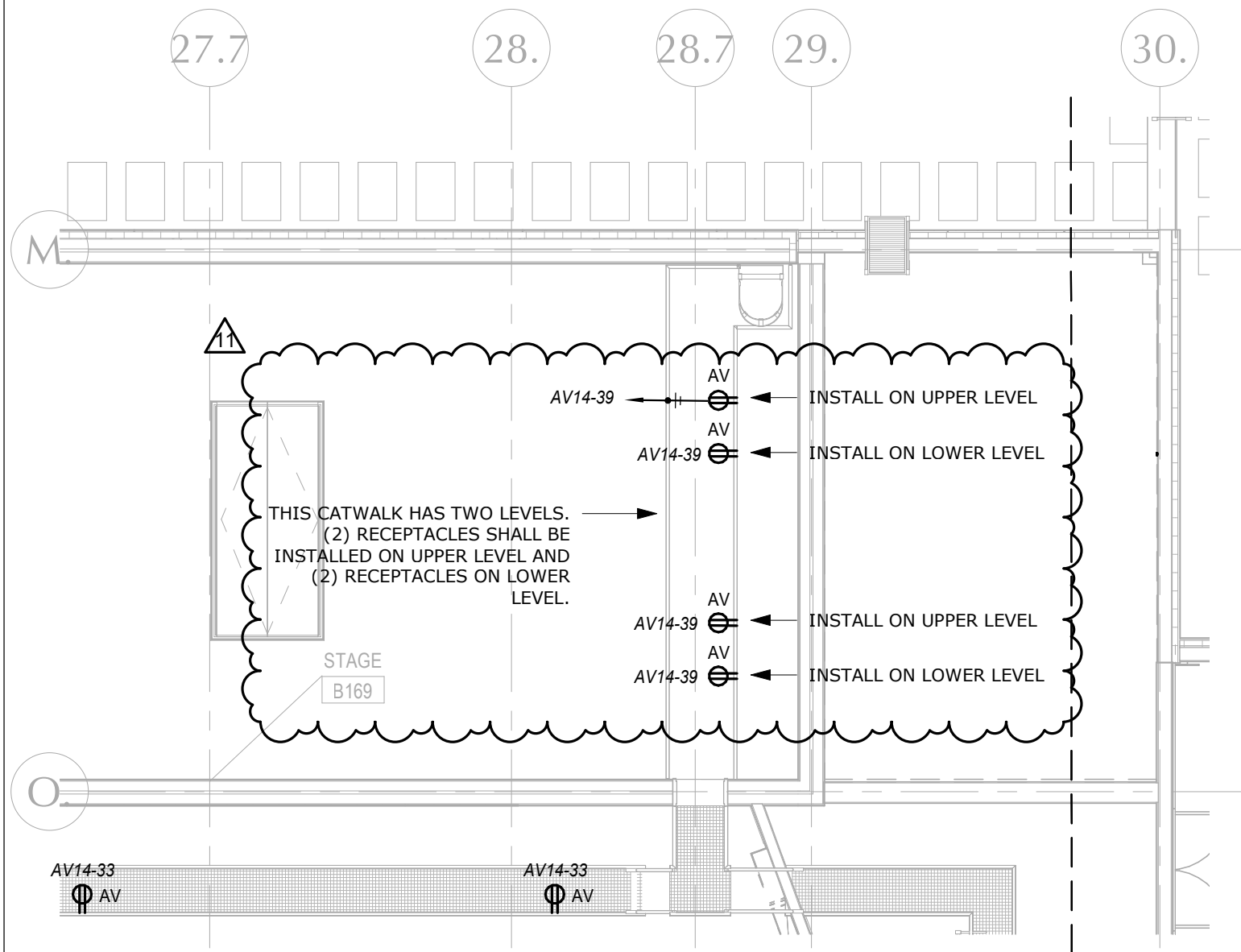
SCALE: 1/4"=1'-0"



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

<div></div> <div>LANOURELUX TARDINO ASSOCIATES, ARCHITECTS 118 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01603</div> <div>MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS</div>	CLIENT INFORMATION: Worcester Public Schools <div></div> <div>City of Worcester Massachusetts, 01603</div>	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: First Floor - Power & Technology	SHEET REF. NO. E2.4, E2.4A, E3.4
	DATE: 03/07/19		DRAWING NUMBER: ADD-9	
	SCALE: As indicated		REFERENCE: FPB - Addendum #9	

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Panel: HSPM

Location: CUSTODIAN WORKSHOP B004.1

Mounting: Surface

Fed From: SDP2

New Panel

Volts: 120/208 3PH

Phases: 3

Wires: 4

Mains Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		D			
				Poles	Trip	Circuit Description	CKT						
1	ILF-1 B026	20 A	1	0.17	0.96					2	20 A	HP-1	2
3	RECEPTACLE B026	20 A	1			0.18	0.96						4
5	POWER FOR MOTORIZED DAMPER B026	20 A	1					0	0.96	2	20 A	HP-2	6
7	UH -1	20 A	1	0.24	0.96								8
9	RECEPTACLE MECHANICAL B004	20 A	1			1.08	0.96			2	20 A	HP-3	10
11	RP-1 B004	20 A	1					0.48	0.96				12
13	RP-1A B004	20 A	1	0.48	1.32					3	25 A	VEF-3 B026	14
15	BLR-1 B004	20 A	1			1.49	1.32						16
17	BLR-2 B004	20 A	1					1.49	1.32	3	25 A	VEF-2 B026	18
19	IRC B004	20 A	1	0.96	1.32								20
21	RP-2 B004	20 A	1			0.12	1.32						22
23	BLR-3 B004	20 A	1					1.49	1.32				24
25	ILF-4 B004	20 A	1	0.44	1.89					3	30 A	SEP-1 B004	26
27	RECEPTACLE OUTDOOR STORAGE B026	20 A	1			0.54	1.89						28
29	Spare	20 A	1					0	1.89	3	60 A	VEF-1 B026	30
31	Spare	20 A	1	0	3.04								32
33	Spare	20 A	1			0	3.04						34
35	POWER FOR BMS COMPUTER	20 A	1					0.36	3.04				36
37	POWER FOR HVAC CONTROLS	20 A	1	0.5	1.2					3	20 A	OC-OHB6	38
39	Spare	20 A	1			0	1.2						40
41	Spare	20 A	1					0	1.2				42
43	Spare	20 A	1	0	0					1	20 A	Spare	44
45	Spare	20 A	1			0	0			1	20 A	Spare	46
47	Spare	20 A	1					0	0	1	20 A	Spare	48
49	Spare	20 A	1	0	0					1	20 A	Spare	50
51	Spare	20 A	1			0	0			1	20 A	Spare	52
53	Spare	20 A	1					0	0	1	20 A	Spare	54

SHEET REF. NO.
E9.09

DRAWING NAME:
Panel HSPM

DRAWING NUMBER:

ADD-

E-101

PROJECT TITLE:

Worcester Public Schools



City of Worcester
Massachusetts, 01605

FINAL BID PACKAGE

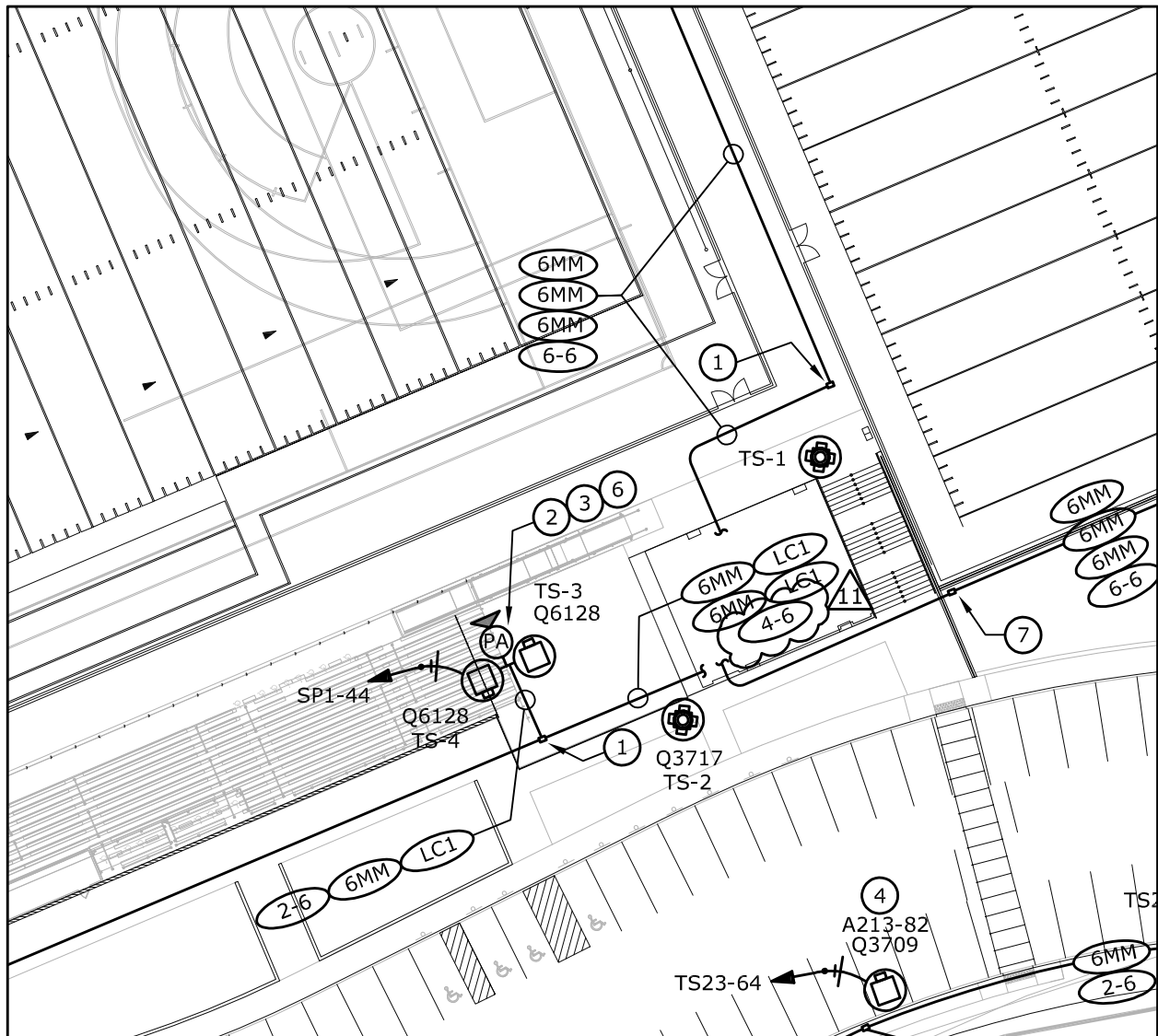
South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:

LAMOREUX PAGANO
ASSOCIATES, ARCHITECTS
1108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

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NEMA ELECTRICAL MOTOR STARTERS

MAXIMUM HORSEPOWER (HP)									
NEMA SIZE	NEMA CONTINUOUS AMP RATING (AMP)	FULL VOLTAGE STARTING			PART WINDING STARTING			WYE DELTA STARTING	
		200V	230V	460V 575V	200V	230V	460V 575V	200V	230V 460V 575V
00	9	1.5	1.5	2					
0	18	3	3	5					
1	27	7.5	7.5	10	10	10	15	10	15
2	45	10	15	25	20	25	40	20	25 40
3	90	25	30	50	40	50	75	40	50 75
4	135	40	50	100	75	75	150	60	75 150
5	270	75	100	200	150	150	350	150	150 300
6	540	150	200	400		300	600	300	350 700
7	810		300	600		450	900	500	500 1000

DRY-TYPE TRANSFORMER SCHEDULE

KVA	VOLTAGES		PHASE	GROUND ELECTRODE		REMARKS
	PRIMARY	SECONDARY		COND	CND SIZE	
9	480 Δ	208Y/120	3	#8	3/4"	NOTE 1
15	480 Δ	208Y/120	3	#8	3/4"	NOTE 1
30	480 Δ	208Y/120	3	#6	3/4"	NOTE 1
45	480 Δ	208Y/120	3	#6	3/4"	NOTE 1
75	480 Δ	208Y/120	3	#2	3/4"	NOTE 1
112.5	480 Δ	208Y/120	3	#1/0	3/4"	NOTE 1
150	480 Δ	208Y/120	3	#3/0	3/4"	NOTE 1
225	480 Δ	208Y/120	3	#3/0	3/4"	NOTE 1
300	480 Δ	208Y/120	3	#3/0	3/4"	NOTE 1
500	480 Δ	208Y/120	3	#3/0	3/4"	NOTE 1

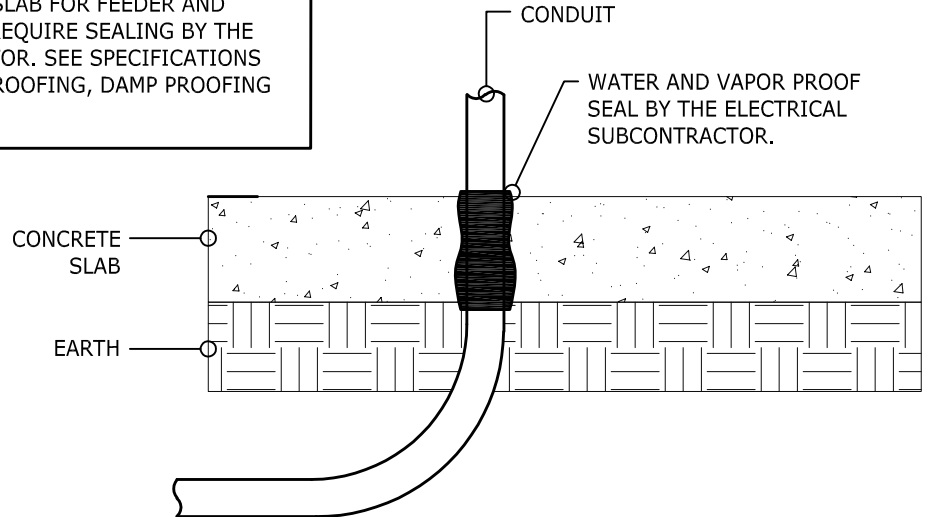
- NOTES:
1. PROVIDE CONCRETE PADS FOR ALL TRANSFORMERS.

DISTRIBUTION NOTES

1. SWITCHGEAR AND PANELBOARDS SHALL BE MANUFACTURED BY SQUARE D, SIEMENS, GENERAL ELECTRIC OR CUTLER-HAMMER.
2. THIS CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT FOR THE MAIN SERVICE WITH THE UTILITY COMPANY. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE RATED FOR THE AVAILABLE SHORT CIRCUIT CURRENT OR AS NOTED ON THE DRAWINGS.
3. THE ENTIRE SYSTEM SHALL BE RATED AND COORDINATED FOR THE AVAILABLE SHORT CIRCUIT CURRENT.
4. PROVIDE HACR CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT.
5. SEE FEEDER SCHEDULE FOR PANEL FEEDER SIZES, UNLESS NOTED OTHERWISE.
6. SEE DRY-TYPE TRANSFORMER SCHEDULE FOR TRANSFORMER PRIMARY, SECONDARY AND GROUNDING CONDUCTORS, UNLESS NOTED OTHERWISE.
7. GROUND THE CASING OF THE TRANSFORMER TO THE NEAREST EFFECTIVELY GROUNDED SYSTEM.
8. BOND THE NEUTRAL OF THE TRANSFORMER SECONDARY TO THE TRANSFORMER CASE WITH BONDING JUMPER.
9. SPD DENOTES SURGE PROTECTIVE DEVICE, FURNISH AND INSTALL IN EDP, ELxx AND EPxx PANELBOARDS.
10. FBOP DENOTES FUSED BRANCH CIRCUIT PANELBOARD.
11. POWER XPERT METERING DENOTES MULTIPPOINT METERING (MPM) FOR ALL CIRCUITS IN THE SWITCHBOARD/PANELBOARD.
12. HMI DENOTES HMI COLOR DISPLAY FOR MPM.

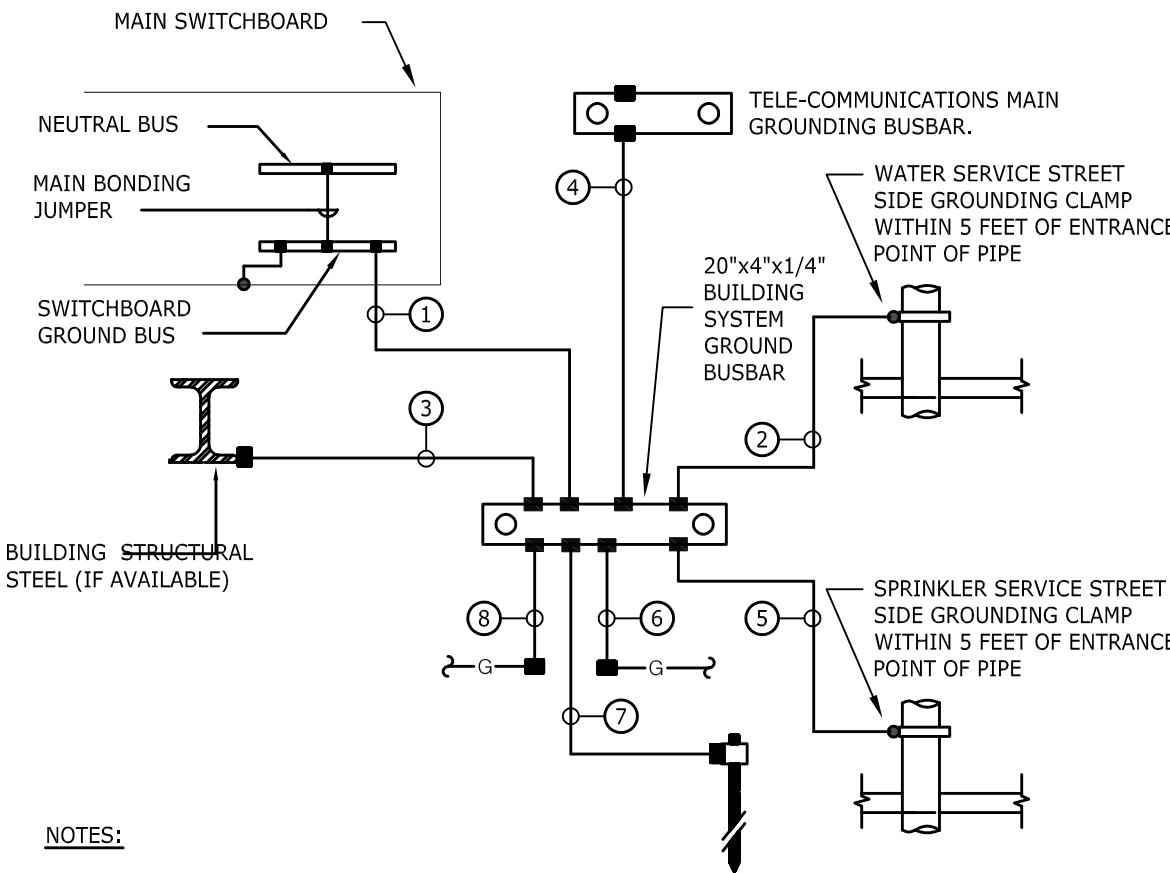
NOTES:

PENETRATIONS THROUGH SLAB FOR FEEDER AND BRANCH CIRCUITS SHALL REQUIRE SEALING BY THE ELECTRICAL SUBCONTRACTOR. SEE SPECIFICATIONS SECTION 07000. WATER PROOFING, DAMP PROOFING AND CAULKING.



CONDUIT THRU SLAB DETAIL

NTS



NOTES:

- INDICATES BOLTED CONNECTION.
 - INDICATES EXOTHERMIC WELD CONNECTION, COMPATIBLE WITH MATERIALS BEING JOINED.
- ① 3/0 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO SWITCHBOARD GROUND BUSBAR.
 - ② 3/0 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO MAIN TELECOMMUNICATION GROUNDING BUSBAR AT THE TELECOMMUNICATIONS ENTRANCE FACILITY.
 - ③ 3/0 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO EFFECTIVELY GROUND METAL FRAME OF THE BUILDING.
 - ④ 3/0 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO THE MAIN TELECOMMUNICATION GROUNDING BUSBAR AT THE TELECOMMUNICATIONS ENTRANCE FACILITY.
 - ⑤ 3/0 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO MAIN METAL SPRINKLER SERVICE, BOND TO THE SPRINKLER PIPE WITHIN 5 FT. FROM THE POINT OF ENTRANCE TO THE BUILDING.
 - ⑥ 3/0 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO LIGHTNING PROTECTOR SYSTEM.
 - ⑦ 6 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO THREE (3) IN. x 10 FT. COPPER-CLAD STEEL GROUND RODS PLACED A MINIMUM OF 10 FT. APART.
 - ⑧ 4 AWG COPPER (OR SIZED PER NEC TABLE 250.66) GROUNDING ELECTRODE CONDUCTOR TO EFFECTIVELY GROUND MINIMUM 20 FT. x 12 IN. REBAR IN THE BUILDING FOUNDATION OR 20 FT. x 4 AWG BARE GROUND CONDUCTOR IN BUILDING FOOTING INSTALLED PER THE NEC.

GROUNDING NOTES AND DETAIL

NTS

FEEDER SCHEDULE - COPPER (BASIS OF DESIGN)

FEEDER SYMBOL	COPPER CONDUCTORS	CONDUIT	NOMINAL AMPERE RATING
20	3-12 AWG & 1-12 AWG GND	3/4"	20
20N	4-12 AWG & 1-12 AWG GND	3/4"	20
30MI	4-10 AWG & 1-10 AWG GND 2-HOUR RATED MI CABLE	-	30
30	3-10 AWG & 1-10 AWG GND	3/4"	30
30N	4-10 AWG & 1-10 AWG GND	3/4"	30
30NN	3-10 AWG & 1-10 AWG NEUT. & 1-10 AWG GND	3/4"	30
40E	4-8 AWG & 1-8 AWG GND	1"	40
40	3-8 AWG & 1-8 AWG GND	3/4"	40
40N	4-8 AWG & 1-8 AWG GND	1"	40
50E	4-6 AWG & 1-6 AWG GND	1-1/4"	50
50	3-6 AWG & 1-6 AWG GND	1"	50
50N	4-6 AWG & 1-6 AWG GND	1"	50
60	3-4 AWG & 1-4 AWG GND	1-1/4"	60
60N	4-4 AWG & 1-4 AWG GND	1-1/4"	60
60NN	3-4 AWG & 1-4 AWG NEUT. & 1-10 AWG GND	1-1/4"	60
60R	2-4 AWG, 1-4 AWG NEUT. & 1-10 AWG GND	1-1/4"	60
70	3-4 AWG & 1-4 AWG GND	1-1/4"	70
70N	4-4 AWG & 1-4 AWG GND	1-1/4"	70
80	3-3 AWG & 1-3 AWG GND	1-1/4"	80
100	3-1 AWG & 1-4 AWG GND	1-1/2"	100
100N	4-1 AWG & 1-6 AWG GND	1-1/2"	100
100E	2-1 AWG, 1-1 AWG NEUT. & 1-6 AWG GND	1-1/2"	100
100NN	3-1 AWG & 1-6 AWG GND	1-1/2"	100
110	3-1 AWG & 1-6 AWG GND	1-1/2"	110
125	3-1 AWG & 1-6 AWG GND	1-1/2"	125
125N	4-1 AWG & 1-6 AWG GND	1-1/2"	125
125NN	3-1 AWG, 2-1 AWG NEUT. & 1-6 AWG GND	2"	125
150	3-1/0 AWG & 1-6 AWG GND	2"	150
150N	4-1/0 AWG & 1-6 AWG GND	2"	150
150NN	3-1/0 AWG, 2-1/0 AWG NEUT. & 1-6 AWG GND	2-1/2"	150
175	3-2/0 AWG & 1-6 AWG GND	2"	175
175N	4-2/0 AWG & 1-6 AWG GND	2"	175
200	3-3/0 AWG & 1-6 AWG GND	2-1/2"	200
200N	4-3/0 AWG & 1-6 AWG GND	2-1/2"	200
200NN	3-3/0 AWG, 2-3/0 AWG NEUT. & 1-6 AWG GND	2-1/2"	200
225N	4-4/0 AWG & 1-4 AWG GND	3"	225
225NN	3-4/0 AWG, 2-4/0 AWG NEUT. & 1-4 AWG GND	3"	225
250N	4-250 KCML & 1-1-4 AWG GND	3"	250
250NN	3-250 KCML & 2-250 KCML & 1-4 AWG GND	3"	250
300	3-350 KCML & 1-4 AWG GND	4"	300
300MI	4-350 KCML & 1-4 AWG GND	4"	300
350N	4-500 KCML & 1-3 AWG GND	4"	350
400	3-600 KCML & 1-3 AWG GND	4"	400
400N	4-600 KCML & 1-3 AWG GND	4"	400
400NN	3-600 KCML & 1-3 AWG NEUT. & 1-3 AWG GND	4"	400
450N	2 SETS OF 4-4/0 & 1-2 AWG GND	(2) 3"	450
500	2 SETS OF 3-250 KCML & 1-2 AWG GND	(2) 3"	500
500N	2 SETS OF 4-250 KCML & 1-2 AWG GND	(2) 3"	500
550N	2 SETS OF 4-300 KCML & 1-1/0 AWG GND	(2) 3"	550
600N	2 SETS OF 4-350 KCML & 1-1/0 AWG GND	(2) 3"	600
600NN	2 SETS OF 4-350 KCML & 4-350 KCML NEUT. & 1-1/0 AWG GND	(2) 4"	600
700N	2 SETS OF 4-500 KCML & 1-1/0 AWG GND	(2) 4"	700
800	2 SETS OF 3-600 KCML & 1-3/0 AWG GND	(2) 4"	800
800N	2 SETS OF 4-600 KCML & 1-3/0 AWG GND	(2) 4"	800
800NN	2 SETS OF 3-600 KCML & 4-600 KCML NEUT. & 1-3/0 AWG GND	(2) 4"	800
1000E	3 SETS OF 3-600 KCML & 1-3/0 AWG GND	(3) 4"	1000
1200N	3 SETS OF 4-600 KCML & 1-3/0 AWG GND	(3) 4"	1200
1600N	4 SETS 4-600 KCML & 1-3/0 AWG GND	(4) 4"	1600
2000N	5 SETS 4-600 KCML & 1-250 KCML GND	(5) 4"	2000
2500N	6 SETS 4-600 KCML & 1-350 KCML GND	(6) 4"	2500
4000S	10 SETS OF 4-600 KCML	(10) 4"	4000

FEEDER SCHEDULE - ALUMINUM (OPTIONAL)

FEEDER SYMBOL	ALUMINUM CONDUCTORS	CONDUIT	NOMINAL AMPERE RATING
100	3-1/0 AWG AL & 1-6 AWG AL GND	2"	100
100N	4-1/0 AWG AL & 1-6 AWG AL GND	2"	100
100E	2-1/0 AWG AL, 2-1/0 AWG NEUT. & 1-6 AWG AL GND	2"	100
100NN	3-1/0 AWG AL, 2-3/0 AWG AL NEUT. & 1-6 AWG AL GND	2-1/2"	100
110	3-1/0 AWG AL & 1-4 AWG AL GND	2"	110
125	3-2/0 AWG AL & 1-4 AWG AL GND	2"	125
125N	4-2/0 AWG AL & 1-4 AWG AL GND	2"	125
125NN	3-2/0 AWG AL, 2-2/0 AWG AL NEUT. & 1-4 AWG AL GND	2-1/2"	125
150	3-3/0 AWG AL & 1-4 AWG AL GND	2-1/2"	150
150N	4-3/0 AWG AL & 1-4 AWG AL GND	2-1/2"	150
150NN	3-3/0 AWG AL, 2-3/0 AWG AL NEUT. & 1-4 AWG AL GND	2-1/2"	150
175	3-4/0 AWG AL & 1-4 AWG AL GND	2-1/2"	175
175N	4-4/0 AWG AL & 1-4 AWG AL GND	2-1/2"	175
200N	4-250 KCML AL & 1-4 AWG AL GND	2-1/2"	200
200NN	3-250 KCML AL, 2-250 KCML AL NEUT. & 1-4 AWG AL GND	3"	200
225N	4-300 KCML AL & 1-2 AWG AL GND	3"	225
250N	4-350 KCML AL & 1-2 AWG AL GND	3"	225
300N	4-500 KCML AL & 1-2 AWG AL GND	4"	300
350N	2 SETS 4-4/0 KCML AL & 1-1 AWG AL GND	(2) 3"	350
400N	2 SETS 4-250 KCML AL & 1-1 AWG AL GND	(2) 3"	400
400NN	3 SETS 3-250 KCML AL, 2-250 KCML AL NEUT. & 1-1 AWG AL GND	(2) 3"	400
450N	2 SETS 4-300 KCML AL & 1-1/0 AWG AL GND	(2) 3"	450
500	2 SETS OF 3-350 KCML AL & 1-1/0 AWG AL GND	(2) 3"	500
500N	2 SETS OF 4-350 KCML AL & 1-1/0 AWG AL GND	(2) 3"	500
550N	2 SETS OF 4-500 KCML AL & 1-2/0 AWG AL GND	(2) 4"	550
600N	2 SETS OF 4-500 KCML AL & 1-2/0 AWG AL GND	(2) 4"	600
700N	3 SETS OF 4-350 KCML AL & 1-3/0 AWG AL GND	(3) 3"	700
800	3 SETS OF 3-400 KCML AL & 1-4/0 KCML AL GND	(3) 4"	800
800N	3 SETS OF 4-400 KCML AL & 1-4/0 KCML AL GND	(3) 4"	800
1000N	4 SETS OF 4-350 KCML AL & 1-4/0 KCML AL GND	(4) 3"	1000
1200N	4 SETS OF 4-500 KCML AL & 1-250 KCML AL GND	(4) 4"	1200
1600N	5 SETS OF 4-600 KCML & 1-350 KCML AWG GND	(5) 4"	1600
2000N	6 SETS OF 4-600 KCML & 1-400 KCML AWG GND	(6) 4"	2000
2500N	8 SETS OF 4-600 KCML & 1-600 KCML AWG GND	(8) 4"	2500
4000S	NOT ALLOWED	-	-

NOTES:

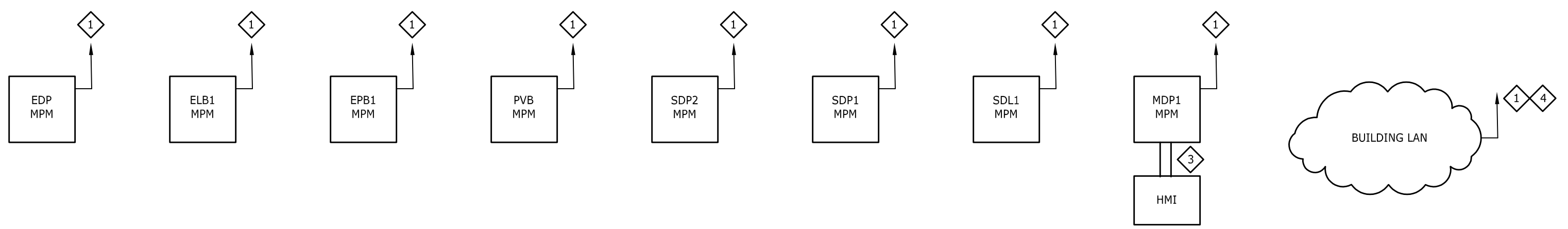
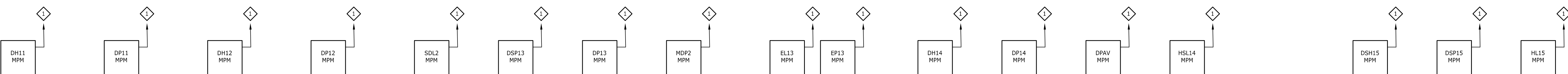
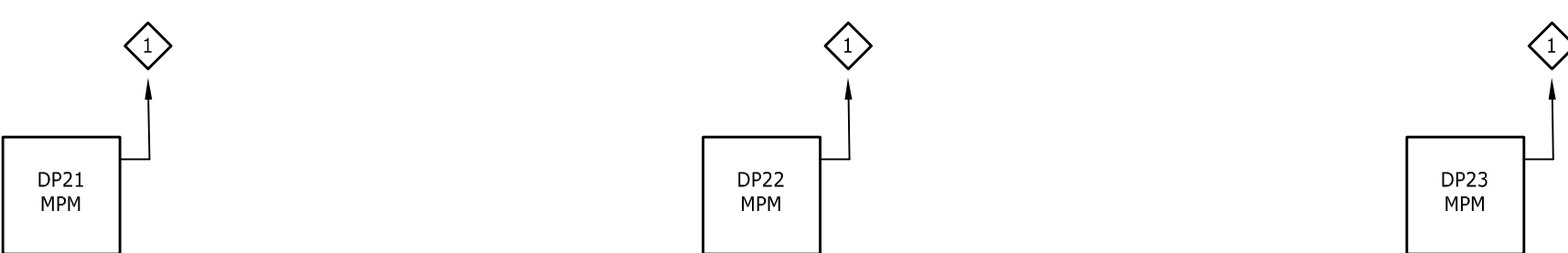
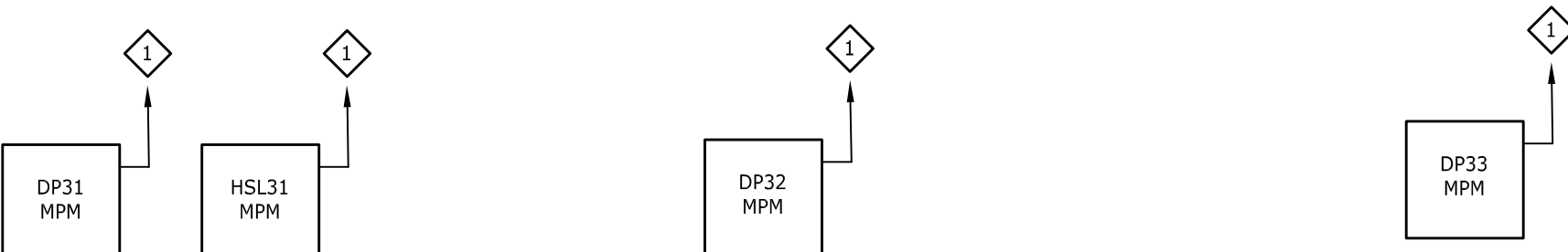
1. ALUMINUM WIRE SIZES RATED FOR LESS THAN #1 AWG SHALL NOT BE PERMITTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE CONDUIT SIZE AND QUANTITY FOR ALUMINUM FEEDERS.

FEEDER SCHEDULE - MI CABLE

FEEDER SYMBOL	COPPER CONDUCTORS	CONDUIT	NOMINAL AMPERE RATING
60MI	4-4 AWG & 1-10 AWG GND, 2-HOUR RATED MI CABLE	-	60
70MI	4-4 AWG & 1-8 AWG GND, 2-HOUR RATED MI CABLE	-	70
100MI	4-1 AWG & 1-6 AWG GND, 2-HOUR RATED MI CABLE	-	100
400MI	2 SETS 4-3/0 AWG & 1-3 AWG GND, 2-HOUR RATED MI CABLE	-	400

SCHEDULES & DETAILS

NTS



- NOTES:
1. CATEGORY 6A ETHERNET CABLE TO BE INSTALLED BY ELECTRICAL TRADE CONTRACTOR. RUN CATEGORY 6A CABLE FROM EACH MPM TO THE NEAREST TELECOMMUNICATIONS ROOM.
A. CATEGORY 6A CABLE RUN CANNOT EXCEED 328 FEET.
B. CATEGORY 6A CABLE TERMINATIONS WILL BE RAS PLUGS AT THE MPM.
C. CATEGORY 6A CABLE TERMINATIONS WILL BE IN PATCH PANELS IN THE TELECOMMUNICATIONS ROOM.
 2. PANELBOARDS ARE TYPICAL REPRESENTATION, NUMBER OF BREAKERS, CT CONNECTIONS AND CT POLES MAY VARY, REFER TO PANEL SCHEDULES.
 3. THE ELECTRICAL TRADE CONTRACTOR MUST CHECK PHASING AND POLARITY OF EACH CT INSTALLED.
 4. CTS MUST BE ROUTED AND INSTALLED PROPERLY AND MUST NEVER BE ROUTED IN PARALLEL WITH POWER CABLES.
 5. COMMUNICATION CABLE MUST NEVER BE ROUTED IN PARALLEL WITH POWER CABLES.

- KEYED NOTES:
- ◇ CATEGORY 6A ETHERNET CABLE TO BUILDING LAN.
 - ◇ BACNET/IP TO BMS.
 - ◇ R2-485 CABLE TO HMI.
 - ◇ CLOUD MONITORING AND LOAD AGGREGATING SOFTWARE.

POWER MONITORING RISER

NTS

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OWNER

Worcester Public Schools

Worcester, MA

Project North

PROJECT

FINAL BID PACKAGE

South High Community School

170 Appleot Street, Worcester, MA 01603

REVISIONS

No.	Description	Date
9	FPB - Addendum #7	02/20/19
10	FPB - Addendum #8	02/28/19
11	FPB - Addendum #9	03/07/19

FILE:

DWN. BY: AC JOB NO: #1611

CKD. BY: AR SCALE: N.T.S.

DATE: January 31, 2019

E8.0G