ADDENDUM No. 7 – February 20, 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.

SPECIFICATIONS

1. DOCUMENT 00 01 10 – TABLE OF CONTENTS (in each volume)

Page 3, APPENDICES

Delete :	"Appendix N	Fontaine-W.T. Rich Phasing Plans (PH-2A, PH-3, PH-3A)"
Insert:	"Appendix N	Fontaine-W.T. Rich Phasing Plans (PH-2, PH-2A, PH-2B, PH-3, PH-3A)"

Page 6, DIVISION 11 – EQUIPMENT

Delete:	"Section 11 34 19	Lower Field Heavy-Duty Aluminum Bleachers"

2. SECTION 00 01 15 – LIST OF DRAWING SHEETS

Page 7
Change name of sheet A8.23 to read: "Interior Details Building B1 – Corridor B170 & B270"

Page 7
Insert sheet: "A11.4 Typical Finish Details"

Page 10
Change name of sheet H5.1 to read: "HVAC Details"
Change name of sheet H5.2 to read: "HVAC Details"
Change name of sheet H5.3 to read: "HVAC Enlarged boiler room & Radiant heating"
Change name of sheet H6.1 to read: "HVAC Schematics & Controls"
Change name of sheet H6.2 to read: "HVAC Piping Schematics & Controls"
Change name of sheet H6.3 to read: "VRF system & controls schematic"
Change name of sheet H7.1 to read: "HVAC Schedules"
Change name of sheet H7.2 to read: "HVAC Schedules"
Change name of sheet H7.3 to read: "HVAC Schedules"

Page 14
Delete the word "REMOVED" between sheets E8.1B and E8.2A

3. SECTION 05 50 00 – METAL FABRICATIONS

Page 1, 1.2, B, 4, g
Delete: "posts at Locker Rooms and other areas."
Insert: "posts and channel braces at Locker Rooms and Corridor locker areas."

Page 3, 1.2, C, 1
Delete: "and wide flange steel bleacher supports"

Page 19
Insert: "2.13 SUSPENDED STEEL GRID SYSTEM AT ART ROOMS

A. Unistrut grid system: Custom suspended grid fabricated from standardized channels and fittings. Unistrut A-1000 series (14ga. 1-1/4 inch channel system). Provide channels, closures, caps, fasteners, and fittings as provided by manufacturer for a complete system.
B. Provide supplemental framing between purlins as required including the following:

1. Threaded rod connection to each intersection of Unistrut to supplement framing above.
2. Beam swivel clamps with adjusters as required for vertical installation of threaded rods."

Page 21, 3.4, D
Delete in its entirety.

4. SECTION 07 11 13 – BITUMINOUS DAMPPROOFING

Page 1, 1.2, A, 1
Delete: "Apply over exterior of building foundation walls, below grade."
Insert: "Apply over below grade masonry and continue application a minimum of 3 inches onto concrete foundation wall."

Page 1, 1.2, A
Insert: "2. Apply over below-grade unexposed sides of exterior site retaining walls #W15, W16, W21, and W22 (refer to Site- Landscape Drawings)."

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

Page 8, 1.13, A, 1
Insert: "c. Warranty shall include total roofing system, membrane, vapor barrier, insulation, membrane flashings, roof edges, metal flashing, roof board, and roof protection board."

Page 9, 2.3, B
Delete: "with lacquer coating"

6. SECTION 07 72 00 – ROOF ACCESSORIES

Page 1, 1.2, A
Insert: "3. Ladders at condenser platforms."

7. SECTION 08 33 13 – COILING COUNTER DOORS

Delete section 08 33 13 in its entirety.

8. SECTION 08 63 00 – METAL FRAMED SKYLIGHTS

Page 2, 1.5, A
Delete: "2009"
Insert: "2015"

Page 2, 1.5, A
Delete: "Eighth"
Insert: "Ninth"

9. SECTION 08 80 00 – GLAZING

Page 1, 1.2, B, 4
Delete in its entirety.
Renumber "5" to "4"

Page 7, 2.2, F
Delete in its entirety.
Reletter "G" to "F", "H" to "G", and "I" to "H"

10. SECTION 09 29 00 – GYPSUM BOARD

Page 7, 2.3, B, 2, a
Delete: ""Moldtough AR", or"

Page 8, 2.4, A
Insert at end: "6. Heavy-duty corner trim (Gymnasium, Weight Room, and Toilet Room soffits above toilet partitions, where indicated on Drawings): Continuous outside corner trim made of extruded aluminum 6063, chemical conversion coating conforming to ASTM D 1730, Type B and MIL-C-5541A, equal to Fry Reglet Corporation.
a. At single layer of gypsum board: model number DMCT-375
b. More than single layer of gypsum board: model number DMCT-1250."

11. SECTION 09 30 13 – CERAMIC TILING

Page 6, 1.11, A
Insert: "3. Furnish 3 unopened containers of each type of grout used."

Page 12, 3.5
Delete: "W244C"

Insert: "W243-17"

Page 12, 3.5, A
Delete: "W244C"
Insert: "W243-17"

Page 12, 3.6
Delete: "B415"
Insert: "W244C-17 and B412-17"

Page 12, 3.6, A
Delete: "B415"
Insert: "W244C-17 and B412-17"

Page 12
Renumber "3.7" to "3.8", "3.8" to "3.9", "3.10" to "3.11", and "3.11" to "3.12"
Insert: "3.7 TOILET/LOCKER ROOM TILE INSTALLATION – TCNA NUMBER W244C-17 WITH THINSET

A. General: Install in accordance with ANSI A108.5, TCNA installation method number W244C-17, and as additionally specified herein below. Apply materials in strict accordance with the written instructions and recommendations of setting materials manufacturer.
   1. Setting materials: Latex modified Portland cement (ANSI A118.4).
   2. Grout materials: Acrylic modified Portland cement (unsanded) grout (ANSI A118.6).
B. Install latex modified Portland cement bed to a thickness recommended by manufacturer.
C. Grouting:
   1. Allow tile to fully set prior to grouting; do not grout in less than 24 hours after installation of tile.
   2. Grout tile joints in accordance with ANSI A108.10 and as additionally specified."

12. SECTION 09 30 19 – PORCELAIN TILING

Page 5, 1.11, A
Insert: "1. Furnish 3 unopened containers of each type of grout used."

13. SECTION 09 64 66 – WOOD ATHLETIC FLOORING

Page 1, 1.1, A, 2
Delete: "latex filler"
Insert: "cast underlayment at slab depression to receive wood athletic flooring system"

Page 2, 1.2, F
Delete in its entirety.

Reletter “G” to “F”, “H” to “G”, and “I” to “H”

Page 10, 3.3, D
Delete in its entirety
Reletter “E” to “D”

14. SECTION 09 65 13 – RESILIENT BASE AND ACCESSORIES

Page 4, 2.2
Change “B” to “C”
Insert: “B. Vinyl Base: Homogenous vinyl, 4 inches and 6 inches high, 0.080 gage thickness complying with ASTM F-1861, Type TV (Thermoplastic Vinyl), in colors as selected by the Architect from manufacturer’s available standards. Provide premolded end stops, external and internal corners, of same material, size, and color as base.

1. Provide coved base at resilient flooring.
2. Provide straight (non-coved) base at carpeted and walk-off entrance mat areas.”

Page 4, 2.2
Insert: “D. Refer to Room Finish Schedules on Drawings A11.1, A11.2, and A11.3 for locations of types.”

Page 5, 2.3, B
Delete in its entirety.

Page 5, 2.3, C
Delete: “C”
Insert: “B”

Page 5, 3.3, A, 4
Delete in its entirety.

15. SECTION 09 65 66 – RESILIENT ATHLETIC FLOORING

Page 1, 1.1, A
Insert: “1. Provide Portland cement-based cast underlayment at slab depression to receive Type 1 resilient athletic flooring system.”

16. SECTION 09 66 23 – RESINOUS MATRIX TERRAZZO

Page 6, 2.3
Insert: “E Adhesive for stair treads: Chemical resistant epoxy adhesive consisting of an epoxy resin, hardener, and chemical resistant silica filler as recommended by terrazzo manufacturer equal to Laticrete International, Inc. “Latapoxy 300”.”

Page 7, 3.2, B
Delete: “TCNA installation method number F205”

Insert: "TCNA installation method number F125-Full-17"

17. SECTION 09 67 23 – RESINOUS FLOORING

Page 5, 2.2, C
Delete: "As recommended by flooring system manufacturer."
Insert: "As recommended by flooring system manufacturer that can be used when moisture levels are 99% RH."

Page 6, 2.3, B
Insert: "8. Topping shall be capable of withstanding up to 99% RH."

Page 7, 2.4, B
Insert: "8. Topping shall be capable of withstanding up to 99% RH."

18. SECTION 10 14 00 – SIGNAGE

Page 2, 1.3, A, 2
Delete: "The Architect"
Delete: "After receipt of the Architect's schedule"

19. SECTION 10 14 63 – ELECTRONIC MESSAGE SIGNAGE

Page 1, 1.2
Change "E" to "F"
Insert: "E. Division 26 – ELECTRICAL; electrical requirements"

20. SECTION 11 13 00 – LOADING DOCK EQUIPMENT

Page 2, 2.2, A
Delete: "J-type anchor"
Replace with: "expansion"

21. SECTION 12 24 00 – WINDOW SHADES

Page 1, 1.1, A, 1
Insert at end: "at windows and at interior hollow metal frame where indicated."

22. SECTION 12 66 13 – TELESCOPING BLEACHERS

Page 2, 1.4, A, 3
Delete: "Include painted on graphics."

23. SECTION 23 00 00 – HVAC

Page 121, 2.43, B
Delete: "based on the most recent generation of products from the Owners current energy management system Alerton by Automated Building Systems Inc."

Insert: "the most recent generation of products by Alerton, as provided by Automated Building Systems, Inc., the Owners current energy management system provider. No alternate provides shall be allowed."

24. SECTION 26 09 13 – ELECTRICAL POWER MONITORING AND CONTROL

Pages 3-5, 2.1-2.5
Delete in its entirety
Insert: "2.1 METER TECHNOLOGY

A. Manufacturer
1. Eaton
2. ABB
3. Satec
4. Or approved equal

2.2 BASIS OF DESIGN

A. The system specified is based upon Eaton Power Xpert Multi-Point meter (MPM) and represents the performance standard upon which any equivalent solution shall be based.

2.3 METER

A. Furnish and install microprocessor-based metering equipment where shown on the one-line distribution drawings.
1. Include metering point (up to 60-1 pole, 30-2 pole, 20-3 pole or a combination of 1 pole, 2 pole and 3 pole points for all circuit breakers in the panelboard/switchboard including spares)

B. Panelboard/Switchboard shall be equipped with integral multi-point metering system for metering of all loads fed from the assembly. Manufacturer shall:
1. Install MPM in Panelboard or Switchboard at the factory
2. Pre-wire current sensors and interface modules to MPM.
3. Pre-wire metering voltages and control power connections.
4. Install color HMI at the main switchboard.

2.4 MPM METERING REQUIREMENTS

A. ANSI C12.20 0.5 accuracy class for sub-metering of loads with 125A, 250A and 400 A solid core current sensors with voltage clamping circuits.

B. The MPM metering modules shall meet ANSI C12.20 0.5 accuracy class.

C. MPM shall have a means of supporting ANSI C57.13 5A revenue metering accuracy current transformers with the use of an interface module.

D. Metering system shall be modular in construction with capacity for up to 60 current channels configurable for 20 three phase, 30 two pole or 60 one pole loads or combination thereof.

E. The MPM design shall permit the use of; solid core 100mA sensors, split core 333mV sensors and 5A current transformers on the same MPM.

F. MPM shall support up to 80 channels of pulse metering of other utilities such as Water, Gas, Steam and chilled water.

G. Support for optional outputs to be used for alarm indication.

H. Load Profile intervals shall be configurable as 1, 5, 10, 15, 30 or 60 minutes minutes or controllable from a Demand Synch input.

I. Demand Interval shall be configurable as Fixed 1, 5, 10, 15, 30 or 60 minutes or Sliding with Sub-intervals of 1, 5, 10, 15 or 30 minutes.

J. Interval-by-interval data storage of demand readings shall be programmable from 1-60 minutes.

K. Sufficient memory for a minimum of 2 years of 15 minute interval data

2.5 MPM CONFIGURATION

A. MPM shall include a configuration port compatible with a temporary laptop connection such as a USB interface.

B. The MPM shall be field configurable for combinations of 1, 2 or 3 pole sub-meters with the use of intuitive graphical configuration software.

2.6 COMMUNICATIONS CAPABILITIES

A. Provide two RS-485 MODBUS communications ports to facilitate simultaneous communications to a local HMI display and to a communications gateway.
   1. Interconnect all MPM’s using RS-485 MODBUS. The wiring shall be installed in 3/4" EMT.

B. Provide Ethernet communications including Modbus TCP, BACnet/IP, HTTPS, SFTP, SNMP, SMTP and NTP.
   1. Configure MPM for access through the facility’s local area network.

2.7 WEB ENABLED CAPABILITIES

A. Provide embedded configurable WEB server. Web server shall

support individual operator usernames and passwords.

B. Web pages shall support HTTPS to protect usernames, passwords and metering data from being transmitted in the clear on communications packets.

C. Energy and Power comparisons between user selectable time periods.

D. 2 years of 15-minute historical data shall be stored in .csv file formats on an SFTP directory in the embedded device.

E. Circuit dashboards shall support importing of customer one-line or plan view graphic images and configurable MPM hotspot links on the graphic linked to MPM data.

F. Dashboards shall be configurable to support user preferred dashboard views.

G. Configure access to the MPM through the web server as directed by the Owner.

H. Configure dashboards to display energy consumption by panel and by mechanical equipment being monitored.

2.8 METERING DATA

A. Main System or Aggregate Data - The MPM shall report the present value of metering data representing a Main circuit. The Main circuit data can be either actual metered data or a virtual main representing the aggregated loads from the sub-meters. Readings for the Main System or Aggregate meter shall include:
   1. Meter Name (32 Characters)
   2. Watts, vars and VA per phase and system
   3. Per phase Volts L-N and Volts L-L
   4. Frequency
   5. System Power Factor
   6. kWh, forward and reverse
   7. kvarh, Q1, Q2, Q3 and Q4
   8. kVAh imported (Q1,Q4) and exported (Q2,Q3)
   9. Block interval demand (1-60 minutes programmable)
      a. W Forward and Reverse
   10. Peak interval demand with Date/Time of peak
      a. W Forward and Reverse
   11. 1-minute Block interval demand (1 minute fixed)
      a. W Forward and Reverse
   12. Minimum and Maximum readings including date and time of min/max shall be reported for:
   13. Watts, vars and VA per phase and system, Per phase Volts L-N and Volts L-L, Frequency and System Power Factor

B. Sub-meter readings - MPM shall report aggregated power and energy readings for combinations of channels configured as three phase, two pole and single pole sub-meters. Readings for the Sub-meters shall include:
   1. Present RMS readings for Watts, Vars and VA (total)
   2. Aggregated Power Factor
   3. W and kWh, forward and reverse
   4. var and kvarh, Q1, Q2, Q3 and Q4
   5. kVAh imported (Q1,Q4) and exported (Q2,Q3)
   6. Block interval demand (1-60 minutes programmable)
   7. VA imported (Q1,Q2) and exported (Q2Q3)
   8. Peak interval demand with Date/Time of peak
   9. VA imported (Q1,Q2) and exported (Q2Q3)

C. Pulse Input Module – MPM reports for up to 80 Pulse input channels.

2.9 ALARMS

A. The MPM shall support alarms for the following functions: Demand Overload, Main Aggregate Power, Power Factor, Power Outage, Rate Alert, Submeter Power, Voltage Limits and Voltage Unbalance.

2.10 OUTPUTS

A. The MPM shall support up to 81 digital outputs. The number of outputs is scalable depending on the number and type of metering, pulse input counting and output modules installed in each MPM.

2.11 HISTORICAL DATA

A. MPM shall store interval-based Load Profile readings in non-volatile memory which can be retrieved by MPM configuration software or accessed by the Energy Portal Module.
   1. Stored data for the Main System or Aggregate meter up to 60 configured submeters.
   2. Stored data for up to 81 configured Pulse Input channel.

B. MPM shall store an alarm log.

2.12 HMI DISPLAY

A. Provide HMI display at the main switchboard.

B. HMI display shall show data for all configured sub-meters.

C. HMI configuration shall not be required for each sub-meter. The HMI shall discover the configuration information automatically.

D. Displayed information shall include;
   1. Sub-meter name, demand readings including last interval and peak value with date/time of peak. Aggregated Power and Energy readings for any 1, 2 or 3 pole meters. Scaled Pulse counts for pulse metering.

E. Cost Allocation Software
   1. The Submetering system shall include a user-friendly cost allocation software program to use in combination with the MPM's Ethernet communications module.
   2. Where specific utility rate structure support is required for billing applications, MPM shall be compatible with multiple Billing Software vendors."

25. SECTION 26 24 16 – PANELBOARDS

Page 3, 2.4

Delete C, D, E, F in its entirety.

Insert: "C. Mains: Main circuit breakers in the distribution panelboards shall be Standard Micrologic (LSI Trip Units) with solid-state trip unit and flux transfer shunt trip. Breakers shall have trip rating plugs with ratings as indicated on the drawings Rating plugs shall be interlocked so they are NOT interchangeable between frames and interlocked such that a breaker cannot be latched with the rating plug removed.

D. Branch Overcurrent Protective Devices: For Circuit-Breaker Frame Sizes 125 A and Smaller: Standard Micrologic (LSI Trip Units) with solid-state trip unit and flux transfer shunt trip. Breakers shall have trip rating plugs with ratings as indicated on the drawings Rating plugs shall be interlocked so they are NOT interchangeable between frames and interlocked such that a breaker cannot be latched with the rating plug removed.

E. Branch Overcurrent Protective Devices: For Circuit-Breaker Frame Sizes Larger Than 125 A: Standard Micrologic (LSI Trip Units) with solid-state trip unit and flux transfer shunt trip. Breakers shall have trip rating plugs with ratings as indicated on the drawings Rating plugs shall be interlocked so they are NOT interchangeable between frames and interlocked such that a breaker cannot be latched with the rating plug removed."

Page 4, 2.5, B

Delete in its entirety.

Insert: "B. Main circuit breakers in the lighting and appliance branch-circuit panelboards shall be Standard Micrologic (LSI Trip Units) with solid-state trip unit and flux transfer shunt trip. Breakers shall have trip rating plugs with ratings as indicated on the drawings Rating plugs shall be interlocked so they are NOT interchangeable between frames and interlocked such that a breaker cannot be latched with the rating plug removed."

Page 5, 2.6, C

Delete in its entirety.

Insert: "C. Main Overcurrent Protective Devices: Main circuit breakers in the lighting and appliance branch-circuit panelboards shall be Standard Micrologic (LSI Trip Units) with solid-state trip unit and flux transfer shunt trip.

Breakers shall have trip rating plugs with ratings as indicated on the drawings Rating plugs shall be interlocked so they are NOT interchangeable between frames and interlocked such that a breaker cannot be latched with the rating plug removed."

26. SECTION 26 36 00 – TRANSFER SWITCHES

Page 17, PART 2 – PRODUCTS

Insert at end: "2.6 INTEGRATION WITH BUILDING MANAGEMENT SYSTEM (BMS)

A. Furnish and install 4-14 AWG from the transfer switches to the BMS system to indicate utility power loss/utility power restored signals so that the BMS system can initiate appropriate sequence of operation when operating on standby power.

2.7 INTEGRATION WITH ELEVATOR CONTROLS

A. Furnish and install 4-14 AWG MI cable from the transfer switches to each elevator controller to indicate utility power loss/utility power restored signals so that the elevators can initiate appropriate sequence of operation when operating on standby power."

27. SECTION 27 31 00 – VOICE COMMUNICATION EQUIPMENT

Page 8, 2.1, A

Delete in its entirety.

Insert: "A. Mitel

1. The Contractor shall employ the services of the Worcester Public School's phone system vendor to install and program the Mitel system."

DRAWINGS

*****NOTE: REMOVE PROGRESS STAMP IN TITLEBLOCK ON DRAWINGS AV0.0 - AV7.2, TL1 - TL4, AND TR1 - TR4.**

1. COVER VOLUME II

A. In the Drawing List, for sheet A8.23, change name of sheet to read: "INTERIOR DETAILS BUILDING B1 – CORRIDOR B170 & B270"

2. DRAWING A6.11 – MOCK-UP WALL

Replace this entire drawing with attached new drawing A6.11 – MOCK-UP WALL

3. DRAWING A8.11 – INTERIOR ELEVATIONS – LOBBY

A. At elevation 3/A8.11, change base detail callout from "B5/A11.4" to "11/A8.23"

4. DRAWING A8.23 – INTERIOR DETAILS BUILDING B1 – CORRIDOR B170

Replace this entire drawings with the attached new drawing A8.23 – INTERIOR DETAILS BUILDING B1 – CORRIDOR B170 & B270

5. DRAWING A8.24 – INTERIOR DETAILS BUILDING B1 – AUDITORIUM

A. At detail P3.1/A8.24, replace "1"" dimension with "3/4""
B. At detail 21/A8.24, delete doors B175.1 and B175.2; add doors B160.1 and B160A.

6. DRAWING A11.2 – ROOM FINISH SCHEDULE - FIRST FLOOR

A. At Rooms B153 and B154, update "Ceiling Finish" column to read "60% ACT-3 / 40% ACT-6 / GWB; PAINT / EXPOSED STRUCTURE; PAINT"
B. At Room B156, update "Ceiling Finish" column to read: "ACT-3 / GWB; PAINT / EXPOSED STRUCTURE; PAINT"
C. At Room B175, update "Ceiling Finish" column to read: "ACT-11 / UNISTRUT GRID / EXPOSED STRUCTURE; PAINT"

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

A. At Room B275, update "Ceiling Finish" column to read: "ACT-11 / UNISTRUT GRID / EXPOSED STRUCTURE; PAINT"

8. DRAWING A11.4 – TYPICAL FINISH DETAILS

A. At detail B7/A11.4, change note from "HARDBOARD; THICKNESS AS REQUIRED" to "SHIM; THICKNESS AS REQUIRED"

9. DRAWING FP1.1 – LEGENDS

A. Refer to Sketch ADD-7/FP.003

10. DRAWING FP1.4 – SERVICE ENTRANCE SCHEMATIC

A. Refer to Sketch ADD-7/FP.003

11. DRAWING FP4.1 – GROUND FLOOR REFLECTED CEILING PLAN SECTION B1

A. Refer to Sketch ADD-7/FP.002
B. Refer to Sketch ADD-7/FP.003
C. Refer to Sketch ADD-7/FP.010

12. DRAWING FP4.2 – GROUND FLOOR REFLECTED CEILING PLAN SECTION B2

A. Delete all intermediate temperature upright sprinklers within Mechanical B004 and Custodian Workshop B004.1, and replace with high temperature upright sprinklers.
B. Refer to Sketch ADD-7/FP.002
C. Refer to Sketch ADD-7/FP.003
D. Refer to Sketch ADD-7/FP.004
E. Refer to Sketch ADD-7/FP.005
F. Refer to Sketch ADD-7/FP.011

13. DRAWING FP4.3 – FIRST FLOOR REFLECTED CEILING PLAN SECTION A

A. At call-out describing dry sprinklers in canopy running below Classroom A172 to A177, delete, “sidewall sprinklers” and replace with “pendant sprinklers”.
B. Refer to Sketch ADD-7/FP.001
C. Refer to Sketch ADD-7/FP.003

14. DRAWING FP4.4 – FIRST FLOOR REFLECTED CEILING PLAN SECTION AB

A. Refer to Sketch ADD-7/FP.001

15. DRAWING FP4.5 – FIRST FLOOR REFLECTED CEILING PLAN SECTION B1

A. At callout describing the B1 Standpipe Riser (near Stair B2), delete text: “And hose valve at each main building”.
B. Refer to Sketch ADD-7/FP.002
C. Refer to Sketch ADD-7/FP.004

16. DRAWING FP4.6 – FIRST FLOOR REFLECTED CEILING PLAN SECTION B2

A. Refer to Sketch ADD-7/FP.002
B. Refer to Sketch ADD-7/FP.005

17. DRAWING FP4.7 – SECOND FLOOR REFLECTED CEILING PLAN SECTION A

A. Refer to Sketch ADD-7/FP.004

18. DRAWING FP4.8 – SECOND FLOOR REFLECTED CEILING PLAN SECTION AB

A. Refer to Sketch ADD-7/FP.003
B. Refer to Sketch ADD-7/FP.005
C. Refer to Sketch ADD-7/FP.006

19. DRAWING FP4.9 – SECOND FLOOR REFLECTED CEILING PLAN SECTION B1

A. At callout describing the B1 Standpipe Riser (near Stair B2), delete text: “And hose valve at each main landing”.
B. Refer to Sketch ADD-7/FP.007
C. Refer to Sketch ADD-7/FP.008

20. DRAWING FP4.10 – SECOND FLOOR REFLECTED CEILING PLAN SECTION B2

A. Refer to Sketch ADD-7/FP.004
B. Refer to Sketch ADD-7/FP.005

21. DRAWING FP4.11 – THIRD FLOOR REFLECTED CEILING PLAN SECTION A

A. Refer to Sketch ADD-7/FP.009

22. DRAWING FP4.12 – THIRD FLOOR REFLECTED CEILING PLAN SECTION AB

A. Refer to Sketch ADD-7/FP.009

23. DRAWING FP7.1 – STAIR SECTIONS

A. Refer to Sketch ADD-7/FP.009

24. DRAWING P2.1 – GROUND FLOOR BELOW GRADE PLUMBING PLAN SECTION B1

A. In legend, add the following: “B.G. Below Grade”

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

A. In Mechanical B004, there is a 2”V dn&rise near the 1” cold water feed for the heating system. This is indicated on the ¼ scale enlarged plan.

18. DRAWING P3.3 – FIRST FLOOR ABOVE GRADE PLUMBING PLAN SECTION A

A. Between column lines 6.6 & 12.2, change the LHW pipe size to 1” up to the first branch take-off in Classroom A170.
B. Between column lines 9 & 12.2, change the LHWR pipe size to 3/4".
C. Set balancing valves to 2 GPM on the LHWR system (typical for two (2) this sheet).
D. Between column lines 12.2 & 12.9, change the LHW pipe size to 1-1/4”.
E. At column line 12.2, from Corridor to first branch take-off in Planning A173, change LHW pipe size to 1”.
F. In Corridor A120, add a 1-1/4”THW feed for the piping dropping down in the wall of Language Lab A135.
G. There are four (4) 4”AW piping riser into the floor on this plan. Each of them shall have a W.C.O. at the base.

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

A. Between column lines 12.9 & 15, change the LHW pipe size to 1-1/4”.
B. Set balancing valve to 2 GPM on the LHWR system (there is one (1) on this sheet).
C. For piping serving Science Lab A107 and in Corridor A110, change the pipe sizes for LHW to 1” and LWHR to 3/4”.
D. Change the LHW piping in Storeroom A115 and into Corridor A110, starting at the outlet of MV-3 to 1-1/2”
E. Change note 1, 7th line to 1/2" LHW drop & 3/4" LHW up.

20. DRAWING P3.5 – FIRST FLOOR PLUMBING PLAN SECTION B1

A. In Men B174, the note for the wet-wall with water closets and urinals is incorrect. It should read as follows: “2”V Rise for P-2, (2)2”V Rise for P-1’s, 1-1/2”V Rise for P-5, (2)1-1/2”V Rise for P-4’s, 4”W DN, 1-1/2”CW Drop”

21. DRAWING P3.6 – FIRST FLOOR PLUMBING PLAN SECTION B2

A. In the chase between Elevator 2 and General Office B101, the 2”W that is up to fixture P-9 also runs down to the Mechanical Room below.

B. The piping risers up in IO Clerk Office B111 serve fixture P-11, not P-10
C. The piping risers up in Exam B120.3 serve fixture P-11, not P-10
D. The piping risers up in Toilet B126.2 serve fixture P-11, not P-10
E. The combustion air risers in the chase in Principal B102 need to be coordinated with the HVAC combustion air piping and ductwork.

22. DRAWING P3.7 – SECOND FLOOR PLUMBING PLAN SECTION A

A. In Janitor A264, the hose bib indicated is for the Owner furnished soap dispenser water connection. Provide signage.

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

A. In the partition wall of Guidance Office B294, there are two vent risers. The wall is 5-1/2" face-to-face, so they may not fit. Relocate to chase in Psychologist Office B295 at column line 40-FF.
B. In Media Center B281, for the storm drain piping outside of Small Group B283, the OFD is closer to column line 46.
C. In Corridor B270, for the storm drain piping serving the roof drain, the OFD is closer to column line 48.
D. In Control Booth B272, note that the FPSC at the roof level is shown.

24. DRAWING P3.11 – THIRD FLOOR PLUMBING PLAN SECTION A

A. Add a note for Stair #A2 SA2.3 that states: "Refer to 2/P3.12 for stairwell plumbing plan at roof level."
B. In Corridor A360 at column line 12.9 provide a note that states: "Provide expansion joint on storm drain piping (typical for 2)."

25. DRAWING P3.13 – ROOF PLUMBING PLAN SECTION A

A. Relocate the roof hydrant closer to column line F so that it is not located in the PV panels.
B. The 4" V.T.R. between column lines 4&5.6 near column line G is shown.

26. DRAWING P3.14 – ROOF PLUMBING PLAN SECTION AB

A. The 4" V.T.R. between column lines 13.6&14 near column line G is shown.
B. The 4" V.T.R. between column lines 46&46.9 near column line GG is called out.

27. DRAWING P4.1 – PARTIAL PLUMBING PLANS SECTIONS A & AB

A. 1/P4.1 Partial First Floor Plumbing Plan Section AB: Added note for balancing valve station that states: "1/2" Ball Valve, Check Valve & Circuit Setter. Balance to 10 GPM."
B. 4/P4.1 Partial First Floor Plumbing Plan Section AB: Added notes for balancing valve stations. The one serving Toilet 181 states "1/2" Ball Valve, Check Valve & Circuit Setter. Balance to 0.5 GPM." The one serving the gang bathrooms states "1/2" Ball Valve, Check Valve & Circuit Setter. Balance to 1.0 GPM."
C. 12/P4.1 Partial Second Floor Plumbing Plan Section AB: Added dimensions to floor drain in Men B274 and for W.H.A. added that the A.P. was 12"x12" S.S.

D. 13/P4.1 Partial Second Floor Plumbing Plan Section AB: Added dimensions to floor drain in Women B270.1, room name & number, and for W.H.A. added that the A.P. was 12”x12” S.S.

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

A. 1/P4.3 Partial First Floor Plan Section AB: In Prep A108, add note for balancing valve stating: “3/4” ball valve, check valve & circuit setter. Balance to 2 GPM.” Also, change the LHW pipe size up to the riser to 1” and the LHWR line to 3/4”.
B. 3/P4.3 Partial First Floor Plumbing Plan Section A: Change pipe size for LHW in Corridor A160 and Classroom A170 up to the first take-off to 1”. Also, for the balancing valve on the 3/4"LHWR line, change to 2 GPM.

29. DRAWING P4.4 – PARTIAL PLUMBING PLANS SECTION B2

A. Detail 1/P4.4 Partial Ground Floor Plumbing Plan Section B2: Added dimensions to floor drains in Toilet B043.1 and Pre-K toilets B047.1.
B. Detail 2/P4.4 Partial First Floor Plumbing Plan Section B2:
    1. In Family Lockers B144, fixture P-18 water feeds were relocated to side wall of the shower instead of the rear wall. This includes moving the water risers down.
    2. In Athletic Storage B147.1 and B141.1, there are clothes washers. For the hot water feed, provide W.H.A. #100 @ to of drop.
    3. All trap primer lines are below the floor, or above the ceiling of the Ground Floor.

30. DRAWING P4.5 – PARTIAL PLUMBING PLANS SECTIONS B1 & B2

A. Detail 1/P4.5 Partial First Floor Plumbing Plan Section B1: In Men B174, the note for the wet-wall with water closets and urinals is incorrect. It should read as follows: “2”V Rise for P-2, (2)2”V Rise for P-1’s, 1-1/2”V Rise for P-5, (2)1-1/2”V Rise for P-4’s, 4:W DN, 1-1/2”CW Drop.
B. Detail 5/P4.5 Partial Ground Floor Plumbing Plan Section B1: In Janitor B073, provide signage for H.B. that this is for soap/chemical dispenser connection only.ed cp cp
C. Detail 14/P4.5 Partial Ground Floor Plumbing Plan Section B2: Site Irrigation System Control Panel in on the long outside wall. Also, note that “For 2” Site Irrigation System water feed, see ADD-7/P001 for piping/valving detail.

31. DRAWING P4.7 – PLUMBING DETAILS

A. Detail 2/P4.7 Detail of Trap Primers & Water Hammer Arrestors: Delete the note. Provide a new note reading “Water Hammer Arrestors and Trap Primer Valves shall be installed such that they are accessible behind a 12” x 12” stainless steel access panel for non-accessible plumbing chases.”
B. Detail 5/P4.7 Radon Vent Termination Details : Change the 6” ABS Radon Vent Pipe below the roof to 6” PVC Radon Vent Pipe.
C. Detail 8/P4.7 Boiler Room Cold Water Make-up Detail: Change the 1” PRV discharge pressure from 25 PSIG to 35 PSIG. Also, provide a hose bib on the 1” non-potable water piping after the last pressure gauge.
D. Detail 9/P4.7 Detail of Kitchen Interior Grease Interceptor GI-# Piping & Installation: This detail pertains to GI-1 and GI-2 only.
E. Detail 11/P4.7 Schematic Detail of Piping at Disposals: For reference, the disposer item #’s are #8, #10, #71, #89, #103, #174.

F. Detail 18/P4.7 Emergency Shower & Eye Wash Piping Detail – Science Labs & Prep Rms: Change note from "Trap Primer to Service AFD-1" to "Trap Primer to Service FD-1". This floor drain is not acid resistant and is connected to sanitary waste and vent piping.
G. Detail 20/P4.7 Mini-Tank Electric Water Heater Detail: The detail note pointing to the sink should read "Countertop Sink P-8 and P-9".
H. Detail 22/P4.7 Schematic Detail of Boiler Water Piping Between Domestic Water Boilers Hot Water Storage Tanks and Thermostatic Mixing Valve: Change the expansion tank from Taco model PAX300-150P to PAX350-150. This expansion tank has a volume of 92 gallons and an acceptance volume of 43 gallons.

32. DRAWING P4.8 – PLUMBING DETAILS & TOILET/STORAGE BUILDING PLUMBING PLANS

A. Detail 8/P4.8 Typical Floor Penetration: if the floor penetration is in a narrow wall such that the pipe sleeve does not fit without a wider wall, then the pipe sleeve must be flush with the floor and not 2" higher than the floor level. Also, riser clamps would not be required in this case as the piping could be supported from the wall framing.
B. Detail 14/P4.8 Gas-Fired Hot Water Heater Piping Detail, GWH-1
   1. Change "MV-2" to "MV-3"
   2. Change the LCW piping size from the main to the water heater from 2" to 1-1/4".
   3. Change the 130°F LHW piping size from the water heater to MV-3 from 2" to 1-1/4".
   4. Change the LHW piping size from the MV-3 outlet from 2" to 1-1/2".
   5. Change the LHWR piping size from 3/4" to 1".

33. DRAWING P4.10 – PLUMBING NOTES & SCHEDULES

A. Pump Schedule: See ADD-7/P004 for change to RP-3
B. Mixing Valve Schedule: Delete Mixing Valve Schedule on plans and replace with the one indicated in ADD-7/P004 sketch.

34. DRAWING E0.1 – Electrical Legend

A. Replace this entire drawing with attached new drawing E0.1 – Electrical Legend

35. DRAWING E0.3A – Electrical Site Lighting Plan

A. Replace this entire drawing with attached new drawing E0.3A – Electrical Site Lighting Plan

36. DRAWING E0.3C – Electrical Tennis Court Power Plan

A. Refer to Sketch ADD-7/E-052

37. DRAWING E0.3D – Electrical Baseball Field Power Plan

A. Refer to Sketch ADD-7/E-053

38. DRAWING E0.4A – Electrical Site Utility Power Plan

A. Refer to Sketch ADD-7/E-051

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

A. Revise keyed note #2 to read as such, “2”C Spare.”
B. Revise keyed note #7 to read as such, “4#6 AWG & 1#10 AWG GND in 2" conduit for car charging stations from panel SP1. Typical of 3.
C. Refer to Sketch ADD-7/E-024

40. DRAWING E0.4C – Electrical Site Technology Plans

A. Refer to Sketch ADD-7/E-0047

41. DRAWING E1.1 – Lighting – Ground Floor Plan Section B1

A. Change all exit signs shown on this drawing to type XH.

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

A. Change all exit signs shown on this drawing to type XH, except for in Mechanical B0004 and Electric B006. Change all exit signs type X2 to type X2H. In Auto/Diesel Shop B023, change exit sign between grid lines 35 and 35.6 to type X2H.
B. Refer to Sketch ADD-7/E-007

43. DRAWING E1.3 – Lighting - First Floor Plan Section A

A. Change all exit signs shown on this drawing to type XH. Change all exit signs type X2 to type X2H.
B. Refer to Sketch ADD-7/E-017

44. DRAWING E1.4 – Lighting - First Floor Plan Section AB

A. Change all exit signs shown on this drawing to type XH, except for in Electric A113 and Receiving B180.1. Change all exit signs type X2 to type X2H.
B. Refer to Sketch ADD-7/E-018.
C. Refer to Sketch ADD-7/E-063

45. DRAWING E1.5 – Lighting - First Floor Plan Section B1

A. Change all exit signs shown on this drawing to type XH.
B. Refer to Sketch ADD-7/E-009

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

A. Change all exit signs shown on this drawing to type XH. Change all exit signs type X2 to type X2H. In Gymnasium B139, change exit signs to type XHG.
B. Refer to Sketch ADD-7/E-011
C. Refer to Sketch ADD-7/E-013

47. DRAWING E1.10 – Lighting - Second Floor Plan Section B2

A. Refer to Sketch ADD-7/E-004

48. DRAWING E 1.14 – Lighting - Sections

A. Refer to Sketch ADD-7/E-005

49. DRAWING E1.7 – Lighting - Second Floor Plan Section A

A. Refer to Sketch ADD-7/E-019

50. DRAWING E1.8 – Lighting - Second Floor Plan Section AB

A. Refer to Sketch ADD-7/E-020

51. DRAWING E1.9 – Lighting – Second Floor Plan Section B1

A. Refer to Sketch ADD-7/E-015

52. DRAWING E1.11 – Lighting - Third Floor Plan Section A

A. Refer to Sketch ADD-7/E-021

53. DRAWING E1.12 – Lighting - Third Floor Plan Section AB

A. Refer to Sketch ADD-7/E-022

54. DRAWING E2.1 – Power -Ground Floor Plan Section B1

A. In Life Skills B051, add circuit PB4A-53 to GFCI receptacle above counter on the North Wall

55. DRAWING E2.2 – Power -Ground Floor Plan Section B2

A. Refer to Sketch ADD-7/E-008
B. Refer to Sketch ADD-7/E-056

56. DRAWING E2.2A – Power – Auto/Diesel

A. Refer to Sketch ADD-7/E-035

57. DRAWING E2.4 – Power – First Floor Plan Section AB

A. Refer to Sketch ADD-7/E-036
B. Refer to Sketch ADD-7/E-057

58. DRAWING E2.4B – Kitchen Electrical Equipment Schedule and Kitchen Notes

A. Item 39 – Utility Distribution, revise Amps to 150A, MCA to 187.5, Trip to 200A, Feeder to 2”C,3#2/0,#6G.

59. DRAWING E2.5 – Power - First Floor Plan Section B1

A. In Piano Lab B156, delete power for speech reinforcement speaker.
B. Refer to Sketch ADD-7/E-010

60. DRAWING E2.6 – Power -First Floor Plan Section B2

A. Refer to Sketch ADD-7/E-012
B. Refer to Sketch ADD-7/E-014

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

A. In Science Lab A271, add power for clock, wire to circuit TS21-13.
B. Refer to Sketch ADD-7/E-056

62. DRAWING E2.8 – Power -Second Floor Plan Section AB

A. In Media Center B281, add power for (2) Speech reinforcements speakers “SR”, wire to circuit P23D-49.
B. In S.E.L.C., add power for (2) speech reinforcement speakers “SR”, wire to circuit P23A-23.
C. Refer to Sketch ADD-7/E-060

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

A. Refer to Sketch ADD-7/E-016.

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

A. Refer to Sketch ADD-7/E-064

65. DRAWING E2.12- Power - Third Floor Plan Section AB

A. Refer to Sketch ADD-7/E-065

66. DRAWING E3.1– Technology - Ground Floor Plan Section B1

A. Replace this entire drawing with attached new drawing E3.1 – Technology – Ground Floor Plan Section B1

67. DRAWING E3.2– Technology - Ground Floor Plan Section B2

A. Replace this entire drawing with attached new drawing E3.2 – Technology – Ground Floor Plan Section B2

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

A. Replace this entire drawing with attached new drawing E3.3 – Technology – First Floor Plan Section A

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

A. Replace this entire drawing with attached new drawing E3.4 – Technology – First Floor Plan Section AB

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

A. Replace this entire drawing with attached new drawing E3.5 – Technology – First Floor Plan Section B1

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

A. Replace this entire drawing with attached new drawing E3.6 – Technology – First Floor Plan Section B2

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

A. Replace this entire drawing with attached new drawing E3.7 – Technology – Second Floor Plan Section A

73. DRAWING E3.8– Technology - Second Floor Plan Section AB

A. Replace this entire drawing with attached new drawing E3.8 – Technology – Second Floor Plan Section AB

74. DRAWING E3.9– Technology - Second Floor Plan Section B1

A. Replace this entire drawing with attached new drawing E3.9 – Technology – Second Floor Plan Section B1

75. DRAWING E3.10– Technology - Second Floor Plan Section B2

A. Replace this entire drawing with attached new drawing E3.10 – Technology – Second Floor Plan Section B2

76. DRAWING E3.11– Technology - Third Floor Plan Section A

A. Replace this entire drawing with attached new drawing E3.11 – Technology – Third Floor Plan Section A

77. DRAWING E3.12– Technology - Third Floor Plan Section AB

A. Replace this entire drawing with attached new drawing E3.12 – Technology – Third Floor Plan Section AB

78. DRAWING E3.13– Technology – Enlarged Tel/Com Rooms

A. Add keyed note #1 to read as such, “At each rack provide (1) double duplex receptacle, (1) L6-30R receptacle and (2) L5-30R receptacles. Typical.”
B. Add general note #3 to read as such, “See MEP Coordination note #9, on drawing E0.2.”
C. In server Room A213, delete 1” Conduit up to roof for exterior sign. Delete note, “Power and data for exterior sign”. Power and data outlet to remain.

79. DRAWING E4.2– Fire Alarm - Ground Floor Plan Section B2

A. Refer to Sketch ADD-7/E-024
B. Refer to Sketch ADD-7/E-061

80. DRAWING E4.3 – Fire Alarm - First Floor Plan Section A

A. Refer to Sketch ADD-7/E-001

81. DRAWING E4.4 – Fire Alarm - First Floor Plan Section AB

A. Refer to Sketch ADD-7/E-002

82. DRAWING E4.6– Fire Alarm - First Floor Plan Section B2

A. Refer to Sketch ADD-7/E-003

83. DRAWING E4.7– Fire Alarm - Second Floor Plan Section A

A. Refer to Sketch ADD-7/E-029

84. DRAWING E4.8– Fire Alarm - Second Floor Plan Section AB

A. Refer to Sketch ADD-7/E-044

85. DRAWING E4.10– Fire Alarm - Second Floor Plan Section B2

A. Refer to Sketch ADD-7/E-030
B. Refer to Sketch ADD-7/E-45

86. DRAWING E4.11– Fire Alarm - Third Floor Plan Section A

A. Refer to Sketch ADD-7/E-031

87. DRAWING E4.12– Fire Alarm - Third Floor Plan Section AB

A. Refer to Sketch ADD-7/E-046

88. DRAWING E5.2–HVAC Power - Ground Floor Plan Section B2

A. Refer to Sketch ADD-7/E-027

89. DRAWING E5.4–HVAC Power - First Floor Plan Section AB

A. Refer to Sketch ADD-7/E-026

90. DRAWING E5.7–HVAC Power - Second Floor Plan Section A

A. Refer to Sketch ADD-7/E-032

91. DRAWING E5.9 – HVAC Power - Second Floor Plan Section B1

A. Refer to Sketch ADD-7/E-006

92. DRAWING E5.10 – HVAC Power - Second Floor Plan Section B2

A. Refer to Sketch ADD-7/E-033

93. DRAWING E5.11 – HVAC Power - Third Floor Plan Section A

A. Refer to Sketch ADD-7/E-034

94. DRAWING E6.2 – Roof Solar Power – Section A

A. Refer to Sketch ADD-7/E-054

95. DRAWING E6.4 – Roof Solar Power – Section B1

A. Refer to Sketch ADD-7/E-055

96. DRAWING E7.3 – Electrical Details

A. Refer to Sketch ADD-7/E-050

97. DRAWING E8.0B – Electrical – Power Distribution Riser Part B

A. Refer to Sketch ADD-7/E-049

98. DRAWING E8.0D – Electrical – Power Distribution Riser Part D

A. Refer to Sketch ADD-7/E-037
B. Refer to Sketch ADD-7/E-041
C. Refer to Sketch ADD-7/E-042

99. DRAWING E8.0G – Electrical – Power Monitoring Riser, Details and Schedule

A. Replace this entire drawing with attached new drawing E8.0G – Electrical – Power Monitoring Riser, Details and Schedule

100. DRAWING E8.5D – Video Surveillance Schedule

A. Replace this entire drawing with attached new drawing E8.5D – Video Surveillance Schedule

101. DRAWING E9.01 – Light Fixture Schedule

A. Fixture type CP4, add note, “Fixture with DALI driver.”
B. Delete fixture types CT7, CT10, and CT16.
C. Fixture type T16-4, add note, “Provide accessory Holder with Smoothing Frost Filter”.
D. Fixture type T16-6, add note, “Provide accessory Holder with Smoothing Frost Filter”.
E. Fixture type XH, delete option for “Wire Guard”.
F. Add Fixture type X2H (Dual Sided exit sign with handicap symbol); BEGHELLI-OL2-HE-SA-LG-2-M-MOUNTING-BA-UNIVERSAL CHEVRON KIT.
G. Add Fixture type XHG (Single Sided exit sign with handicap symbol and wire guard); BEGHELLI-OL2-HE-SA-LG-1-M-MOUNTING-BA-UNIVERSAL CHEVRON KIT-WIRE GUARD
H. Refer to Sketch ADD-7/E-025.

102. DRAWING E9.02 – Equipment Schedule

A. Refer to Sketch ADD-7/E-028

103. DRAWING E9.05 – Panel Schedules

A. Refer to Sketch ADD-7/E-039
B. Refer to Sketch ADD-7/E-040
C. Refer to Sketch ADD-7/E-048

104. DRAWING E9.06 – Panel Schedules

A. Panel DP23: For circuit DP23-1,3,5, revise circuit breaker to 125A/3P

105. DRAWING E9.07 – Panel Schedules

A. Panel EPB1: Revise Mains Rating to 225A.
B. Panel EP13: Revise Mains Rating to 225A. Revise (3) 60A/3P circuit breakers to (3) 100A/3P circuit breakers.
C. Panel EL13: revise Mains rating to 400A. For circuit EL13-8,10,12, revise circuit breaker to 125A/3P.
D. Panel ELB1: Panel shall be Feed-Thru. Delete (1) 100A/3P circuit breaker for panel EL13, substitute with (3) 20A/1P circuit breakers. For circuit ELB1-12,14,16, revise circuit breaker to 125A/3P.

106. DRAWING E9.15 – Panel Schedules

A. Refer to Sketch ADD-7/E-038
B. Refer to Sketch ADD-7/E-043

ATTACHMENTS

DOCUMENTS:

1. Substitution Request Form for the following products (refer to attachment for action):
    a. Scranton Duralife Lockers
    b. Scranton Tufftec Lockers
    c. Scranton Tufftec Bench
2. Substitution Request Form for Dorken Systems roof vapor barrier (refer to attachment for action).
3. Substitution Request Form for E & D Specialty Stands, Inc.

SKETCHES:

ARCHITECTURAL

1. ADD-7/A-001 Auditorium Catwalk Partial Plans
2. ADD-7/A-002 Auditorium Partial Plans
3. ADD-7/A-003 Partial Aud. Reflected Ceiling Plans
4. ADD-7/A-004 Partial Ground Floor RCP & Details
5. ADD-7/A-005 Partial Second Floor Plan & Reflected Ceiling Plan
6. ADD-7/A-006 Casework Schedule
7. ADD-7/A-007 Casework Schedule
8. ADD-7/A-008 B175 Auditorium Ceiling

FIRE PROTECTION

1. ADD-7/FP.001 Revisions at Stairs A1, A2, A3, B1
2. ADD-7/FP.002 Revisions At Stairs B2, B3, and B4
3. ADD-7/FP.003 Pipe Sizes Clarified or Revised. Two Legend Changes
4. ADD-7/FP.004 Pipe Sizes Clarified or Revised
5. ADD-7/FP.005 Pipe Sizes or Sprinkler Locations Clarified or Revised
6. ADD-7/FP.006 Cafeteria Missing Sprinklers Turned On
7. ADD-7/FP.007 Auditorium Missing Pipe Sizes Turned on – Column R5 and Lower
8. ADD-7/FP.008 Auditorium Missing Pipe Sizes Turned On – Column R5 and Higher
9. ADD-7/FP.009 Pipe Sizes Clarified Under-Stair-Tread Sprinklers Changed to Uprights
10. ADD-7/FP.010 FP Service Entrance Revisions
11. ADD-7/FP.011 Mech. Rm. High Temperature Sprinklers

PLUMBING

1. ADD-7/P-001 Site Irrigation System Connection Detail
2. ADD-7/P-002 Detail of Piping at Thermostatic Mixing Valve, MV-2 & MV-4
3. ADD-7/P-003 Electronic Trap Primer Valve Piping Detail
4. ADD-7/P-004 Plumbing Schedules

ELECTRICAL

1. ADD-7/E001 Fire Alarm – Tamper Switch
2. ADD-7/E002 Fire Alarm – Tamper Switch
3. ADD-7/E003 Fire Alarm – Tamper Switch
4. ADD-7/E004 Lighting – Second Floor – Upper Lobby
5. ADD-7/E005 Lighting – Catwalk 3 Detail – 9/E1.14
6. ADD-7/E006 HVAC Power – Second Floor Plan Section B1
7. ADD-7/E007 Lighting – Ground Floor Plan Section B2
8. ADD-7/E008 Power – Ground Floor Plan Section B2
9. ADD-7/E009 Lighting – First Floor Plan Section B1
10. ADD-7/E010 Power – First Floor Plan Section B1
11. ADD-7/E011 Lighting – First Floor Plan Section B2
12. ADD-7/E012 Power – First Floor Plan Section B2
13. ADD-7/E013 Lighting – First Floor Plan Section B2
14. ADD-7/E014 Power – First Floor Plan Section B2
15. ADD-7/E015 Lighting – Second Floor Plan Section B1
16. ADD-7/E016 Power – Second Floor Plan Section B1
17. ADD-7/E017 Lighting – First Floor Plan Section A
18. ADD-7/E018 Lighting – First Floor Plan Section AB
19. ADD-7/E019 Lighting - Second Floor Plan Section A
20. ADD-7/E020 Lighting – Second Floor Plan Section AB
21. ADD-7/E021 Lighting – Third Floor Plan Section A
22. ADD-7/E022 Lighting – Third Floor Plan Section AB
23. ADD-7/E023 Fire Alarm – Tamper Switch
24. ADD-7/E024 Electrical Site Power Plan
25. ADD-7/E025 Lighting Fixture Schedule
26. ADD-7/E026 HVAC Power – ILF-6
27. ADD-7/E027 HVAC Power – ILF-2, HP-1, HP-2, and HP-3
28. ADD-7/E028 Equipment Schedule
29. ADD-7/E029 Fire Alarm – Duct Smoke Detectors

30. ADD-7/E030 Fire Alarm – Duct Smoke Detectors
31. ADD-7/E031 Fire Alarm – Duct Smoke Detectors
32. ADD-7/E032 Fire Alarm – Duct Smoke Damper
33. ADD-7/E033 Fire Alarm – Duct Smoke Damper
34. ADD-7/E034 Fire Alarm – Duct Smoke Damper
35. ADD-7/E035 Power For Clock
36. ADD-7/E036 Power for Speaker
37. ADD-7/E037 Panel SP1 & XFMR T-SP1
38. ADD-7/E038 Panel Schedule- SP1
39. ADD-7/E039 Panel Schedule - MDP1
40. ADD-7/E040 Panel Schedule - SDL1
41. ADD-7/E041 Panel MDP1
42. ADD-7/E042 Panel SDL1
43. ADD-7/E043 Panel Schedule - PVB
44. ADD-7/E044 Area of Refuge Signage Second Floor
45. ADD-7/E045 Area of Refuge Signage Second Floor
46. ADD-7/E046 Area of Refuge Signage Third Floor
47. ADD-7/E047 Exterior Camera Power
48. ADD-7/E048 Panel Schedule - MDP2
49. ADD-7/E049 Panel MDP2
51. ADD-7/E051 Electrical Site Power Plan
52. ADD-7/E052 Panel TCPP
53. ADD-7/E053 Sullivan Exterior Carma Power
54. ADD-7/E054 Roof Solar Power-Section A
55. ADD-7/E055 Roof Solar Power-Section B1
56. ADD-7/E056 GDP Power Ground Floor Mechanical Room
57. ADD-7/E057 Ansul and GDP Power First Floor
58. ADD-7/E058 Panel EL13, EP13, XFMR T-EP13
59. ADD-7/E059 Panel ELB1, EPB1, XFMR T-EPB1
60. ADD-7/E060 Science Room GDP Second Floor
61. ADD-7/E061 Generator Annunciator Ground Floor
62. ADD-7/E062 GDP Power Science Room Second Floor
63. ADD-7/E063 Lighting - CAFE B192
64. ADD-7/E064 GDP Power Science Room Third Floor
65. ADD-7/E065 GDP Power Science Room Third Floor
66. ADD-7/E066 Security Workstation/ Screen Outlets

END OF ADDENDUM #7

SUBSTITUTION REQUEST
(During the Bidding/Negotiating Stage)

Project:	(FSB)Worcester South High Community School (15-687748)	Substitution Request Number:	SubReq-02408
	WORCESTER, MA	From:	Erik Muir, Scranton Products
To:	Jeremy Flansburg, City of Worcester	Date:	02/11/2019
	flansburgj@worcesterma.gov, (508) 799-8588	A/E Project Number:	
Re:	Metal Lockers	Contract For:	City of Worcester

Specification Title: Metal Lockers
Description: Manufacturers
Section: 10 51 13 Page: 4
Article/Paragraph: 2.1

Proposed Substitution: Duralife Lockers
Manufacturer: Scranton Products Address: scrantonproducts.com Phone: 570-348-0997
Trade Name: Scranton Duralife Lockers Model No.: N/A

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by: Erik Muir
Signed by: Erik Muir
Firm: Scranton Products
Address: 801 E. Corey Street
Scranton, Pennsylvania 18504
Telephone: (570) 348-0997, erik.muir@azekco.com

A/E' s REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Substitution Procedures.

☐ Substitution approved as noted - Make submittals in accordance with Specification Substitution Procedures.

☑ Substitution rejected - Use specified materials. specifications call for metal lockers

☐ Substitution Request received too late - Use specified materials.

Signed by: Peter A. Caruso, Jr. **Date:** 2/13/19

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ ____

SUBSTITUTION REQUEST
(During the Bidding/Negotiating Stage)

Project:	(FSB)Worcester South High Community School (15-687748)	Substitution Request Number:	SubReq-02409
	WORCESTER, MA	From:	Erik Muir, Scranton Products
To:	Jeremy Flansburg, City of Worcester	Date:	02/11/2019
	flansburgj@worcesterma.gov, (508) 799-8588	A/E Project Number:	
Re:	Metal Lockers	Contract For:	City of Worcester

Specification Title: Metal Lockers
Description: Manufacturers
Section: 10 51 13 Page: 4
Article/Paragraph: 2.1

Proposed Substitution: Tufftec Lockers
Manufacturer: Scranton Products Address: scrantonproducts.com Phone: 570-348-0997
Trade Name: Scranton Tufftec Lockers Model No.: N/A

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by: Erik Muir
Signed by: Erik Muir
Firm: Scranton Products
Address: 801 E. Corey Street
Scranton, Pennsylvania 18504
Telephone: (570) 348-0997, erik.muir@azekco.com

A/E' s REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Substitution Procedures.

☐ Substitution approved as noted - Make submittals in accordance with Specification Substitution Procedures.

☑ Substitution rejected - Use specified materials. specifications call for metal lockers

☐ Substitution Request received too late - Use specified materials.

Signed by: Peter A. Caruso, Jr. **Date:** 2/13/19

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ ___

SUBSTITUTION REQUEST
(During the Bidding/Negotiating Stage)

Project:	(FSB)Worcester South High Community School (15-687748)	Substitution Request Number:	SubReq-02410
	WORCESTER, MA	From:	Erik Muir, Scranton Products
To:	Jeremy Flansburg, City of Worcester	Date:	02/11/2019
	flansburgj@worcesterma.gov, (508) 799-8588	A/E Project Number:	
Re:	Metal Lockers	Contract For:	City of Worcester

Specification Title: Metal Lockers
Description: Locker Room Benches
Section: 10 51 13
Page: 5
Article/Paragraph: 2.5

Proposed Substitution: Tufftec Bench
Manufacturer: Scranton Products
Address: scrantonproducts.com
Phone: 570-348-0997
Trade Name: Scranton Tufftec Bench
Model No.: N/A

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by: Erik Muir
Signed by: Erik Muir
Firm: Scranton Products
Address: 801 E. Corey Street
Scranton, Pennsylvania 18504
Telephone: (570) 348-0997, erik.muir@azekco.com

A/E' s REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Substitution Procedures.

☐ Substitution approved as noted - Make submittals in accordance with Specification Substitution Procedures.

☑ Substitution rejected - Use specified materials. specifications call for wood bench tops

☐ Substitution Request received too late - Use specified materials.

Signed by: Peter A. Caruso, Jr. **Date:** 2/13/19

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ ___

Knowledge for Creating and Sustaining the Built Environment

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: (FSB)Worcester South High Community School
Worcester, Massachusetts

Substitution Request Number:

From: Dörken Systems Inc.

To: Jeremy C Flansburg
City of Worcester Dept of Public Works & Parks

Date: 2/13/2019

A/E Project Number: N/A

Re: Substitution Request - Vapor Permeable Adhesive WRB

Contract For:

Specification Title: PRODUCTS

Description: VAPOR BARRIER

Section: 07 54 19

Page: 11

Article/Paragraph: 2.5.A

Proposed Substitution: DELTA®-VENT SA Self-Adhered Vapor Permeable Air Barrier Membrane
Manufacturer: DÖRKEN SYSTEMS INC.
Address: 4655 Delta Way, Beamsville, Ontario, Canada. L0R 1B4
Phone: 905-563-3255
Trade Name: DELTA®
Model No.: DELTA®-VENT SA

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Steven Polich - Construction Product Specialist

Signed by:

Firm: Dörken Systems Inc.

Address: 4655 Delta Way
Beamsville ON Canada L0R 1B4

Telephone: 905-563-3255

A/E's REVIEW AND ACTION this is a vapor permeable barrier which is not what is specified for the roof

☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☑ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Peter A. Caruso, Jr. Date: 2/15/19

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☒ Tests ☒ Reports ☒ Comparative Data

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SUBSTITUTION REQUEST FORM

Project: South High Bleachers

Architect's Project Number:

Substitution Request Number:

To: Jamie Bloom

Date: 02-13-19

From: Jon Williams

Re: E & D
Specialty Stands

Contract For: Bleachers

Section Title: Press box, Grandstands

Description: Press box, grandstands

Section No.: 13 12 60, 13 34 16 Page:

Article/Paragraph: 2.1

Proposed substitution: E & D Specialty Stands, Inc. Manufacturer: Same

Address: 2018 Franklin Street, North Collins, NY 14111

Phone: 800-525-8515 Trade Name: Same

Model: I-beam grandstands Installer: E & D Specialty Stands, Inc.

Address: Same

History: More than 10 years old

Differences between proposed substitution and specified product: None

Point-by-point comparative data attached - REQUIRED BY ARCHITECT

Reason for not providing specified item: Different manufacturer

Similar Installation: See attached reference list.

Project:	Architect:
Address:	Owner:
	Date Installed:

Proposed substitution affects other parts of Work: No

Proposed substitution affects LEED v4 requirements of Work: No

Savings to Owner for accepting substitution: ($ unknown

Proposed substitution changes Contract Time: No

Supporting Data Attached: Product Data, Reference list

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product including meeting LEED credit requirements, where applicable
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be correct in all respects.

Submitted by: Jon Williams

Signed by: Jon Williams

Firm: E & D Specialty Stands, Inc.

Address: 2018 Franklin Street, North Collins, NY 14111

Telephone: 800-525-8515

ARCHITECT'S REVIEW AND ACTION

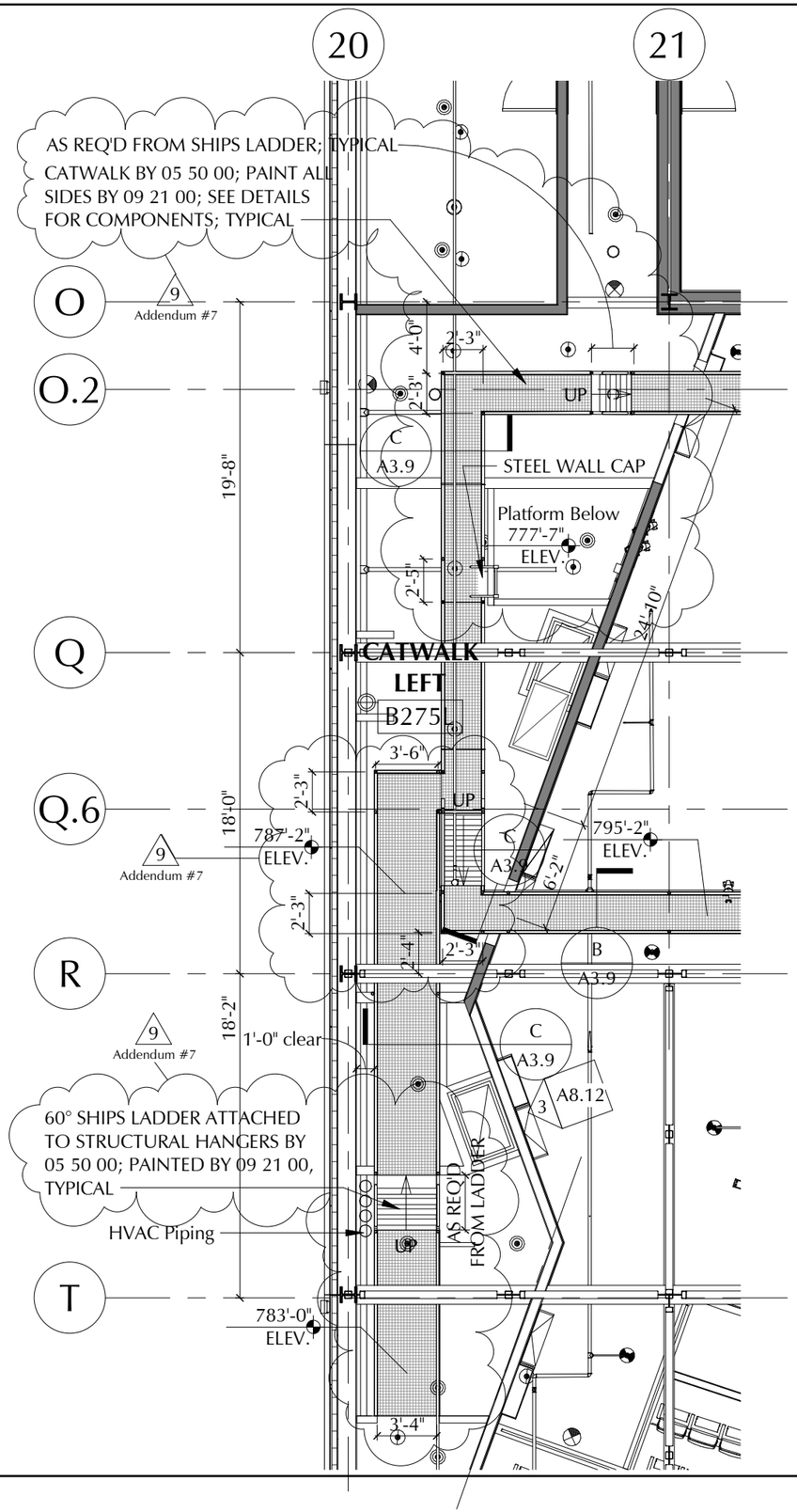
- [x] Substitution approved – Make submittals per Division 01 Section "Substitution Procedures."
- [ ] Substitution approved as noted – Make submittals per Division 01 Section "Substitution Procedures."
- [ ] Substitution rejected – Use specified materials.

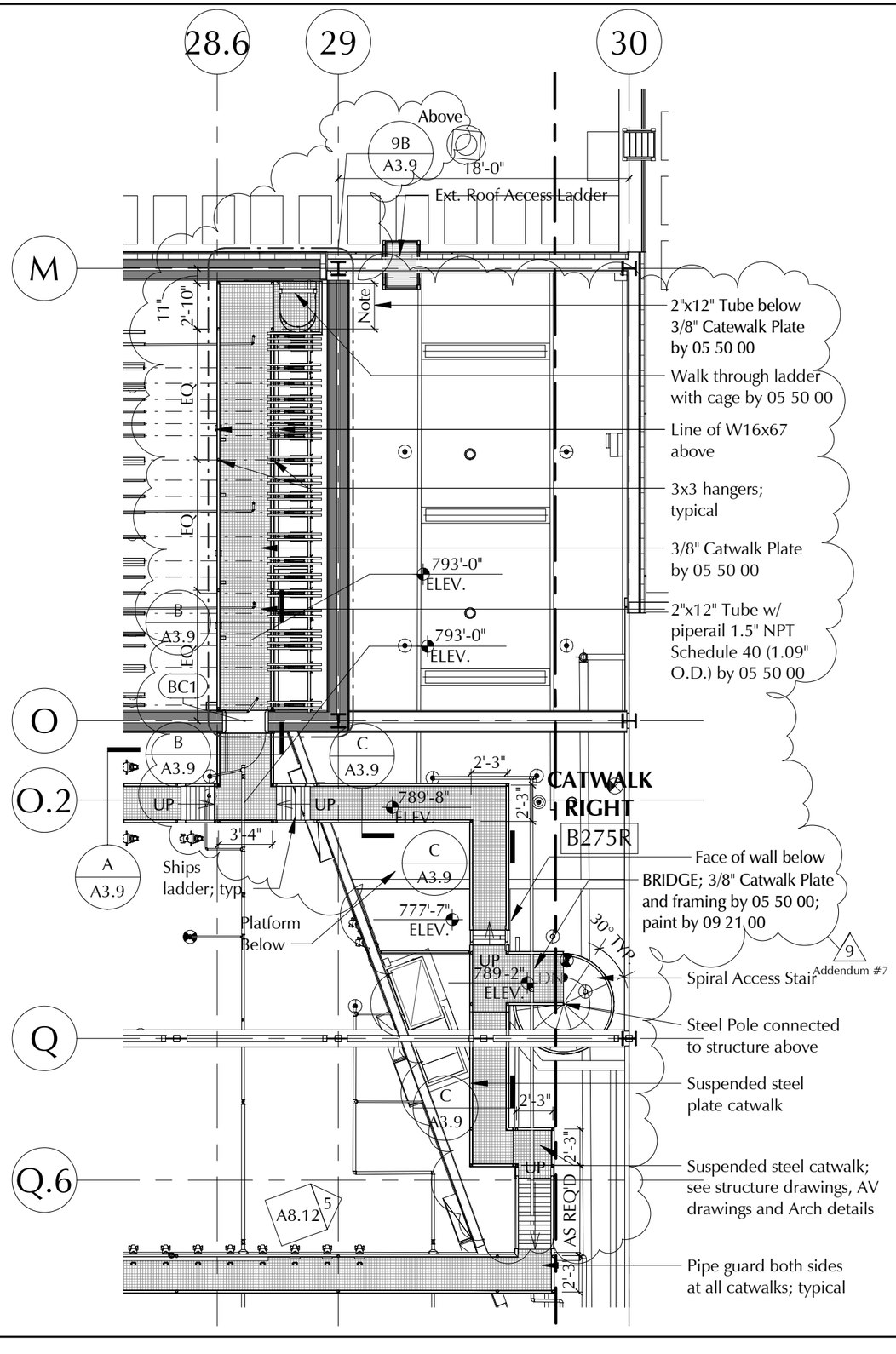
Peter A. Caruso, Jr. Lamoureux Pagano Associates 2/20/19

Signed by: NATHAN OGDAHL STUDIO 2112 Date: 02/20/2019

Additional Comments: [ ] Contractor [ ] Subcontractor [ ] Supplier [ ] Manufacturer [ ] A/E [ ] Other

[ ] Substitution Request received too late – Use specified mater





DRAWING NAME: Auditorium Catwalk Partial Plans

SHEET REF. NO. 9A/A3.9

DRAWING NUMBER: ADD-7 / A-001

DATE: 02/18/19

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

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

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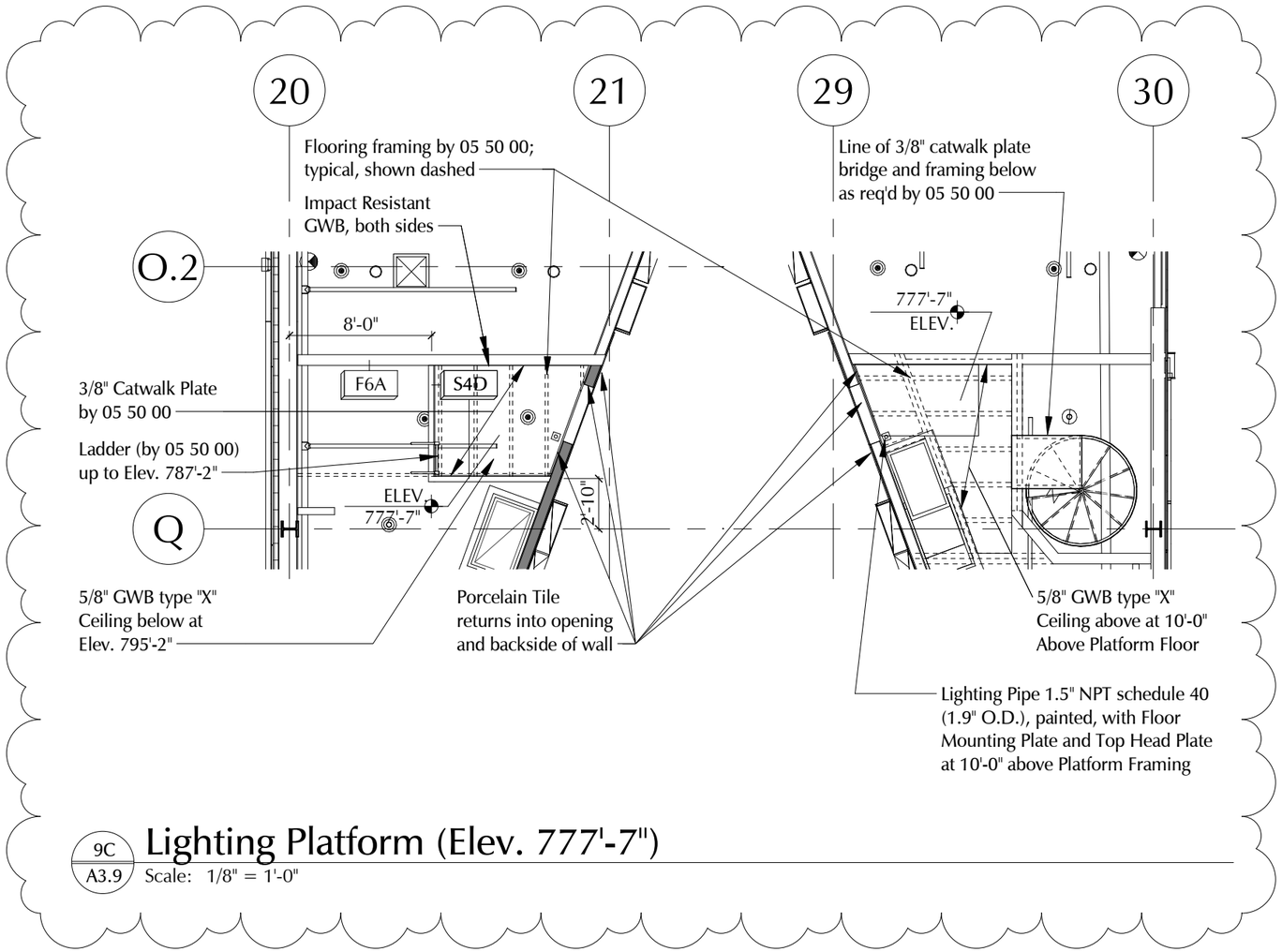
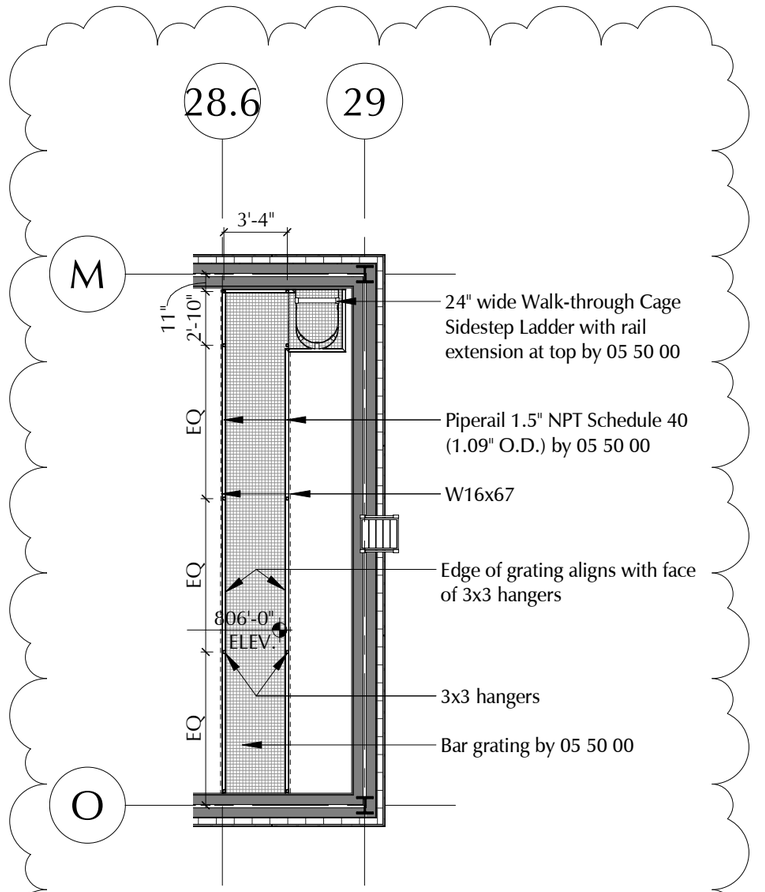


9C / A3.9 **Lighting Platform (Elev. 777'-7")**
Scale: 1/8" = 1'-0"

9
Addendum #7



9
Addendum #7

9B / A3.9 **Loading Loft Plan (Elev. 806'-0")**
Scale: 1/8" = 1'-0"

DRAWING NAME: Auditorium Partial Plans
SHEET REF. NO.
DRAWING NUMBER: ADD-7 / A-002
DATE: 02/18/19
SCALE: 1/8" = 1'-0"

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

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

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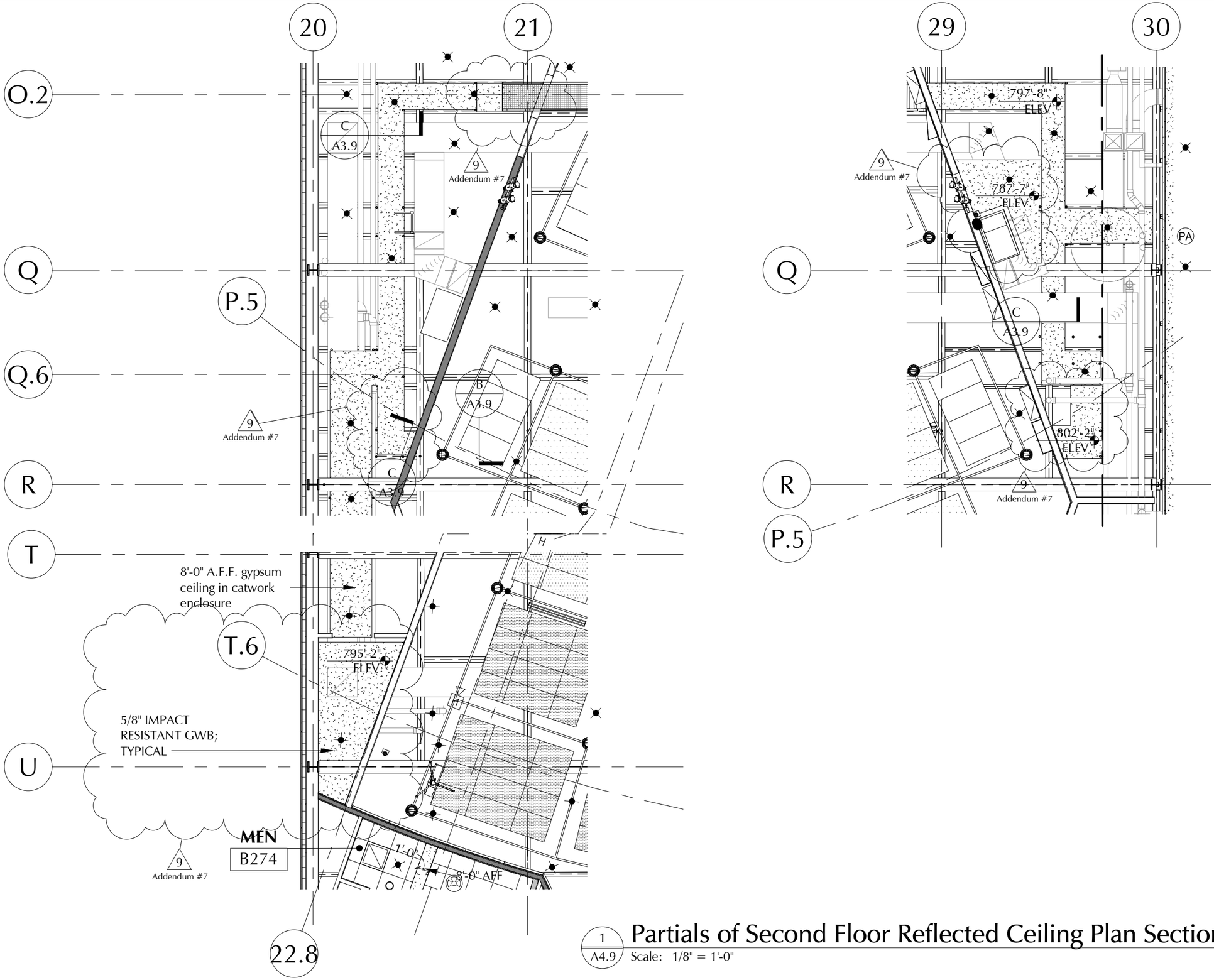

1 / A4.9 Partials of Second Floor Reflected Ceiling Plan Section B1

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

DRAWING NAME: Partial Aud. Reflected Ceiling Plans

SHEET REF. NO. 1/A4.9

DRAWING NUMBER: ADD-7 / A-003

DATE: 02/18/19

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

PROJECT TITLE: South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION: Worcester Public Schools

City of Worcester
Massachusetts, 01605

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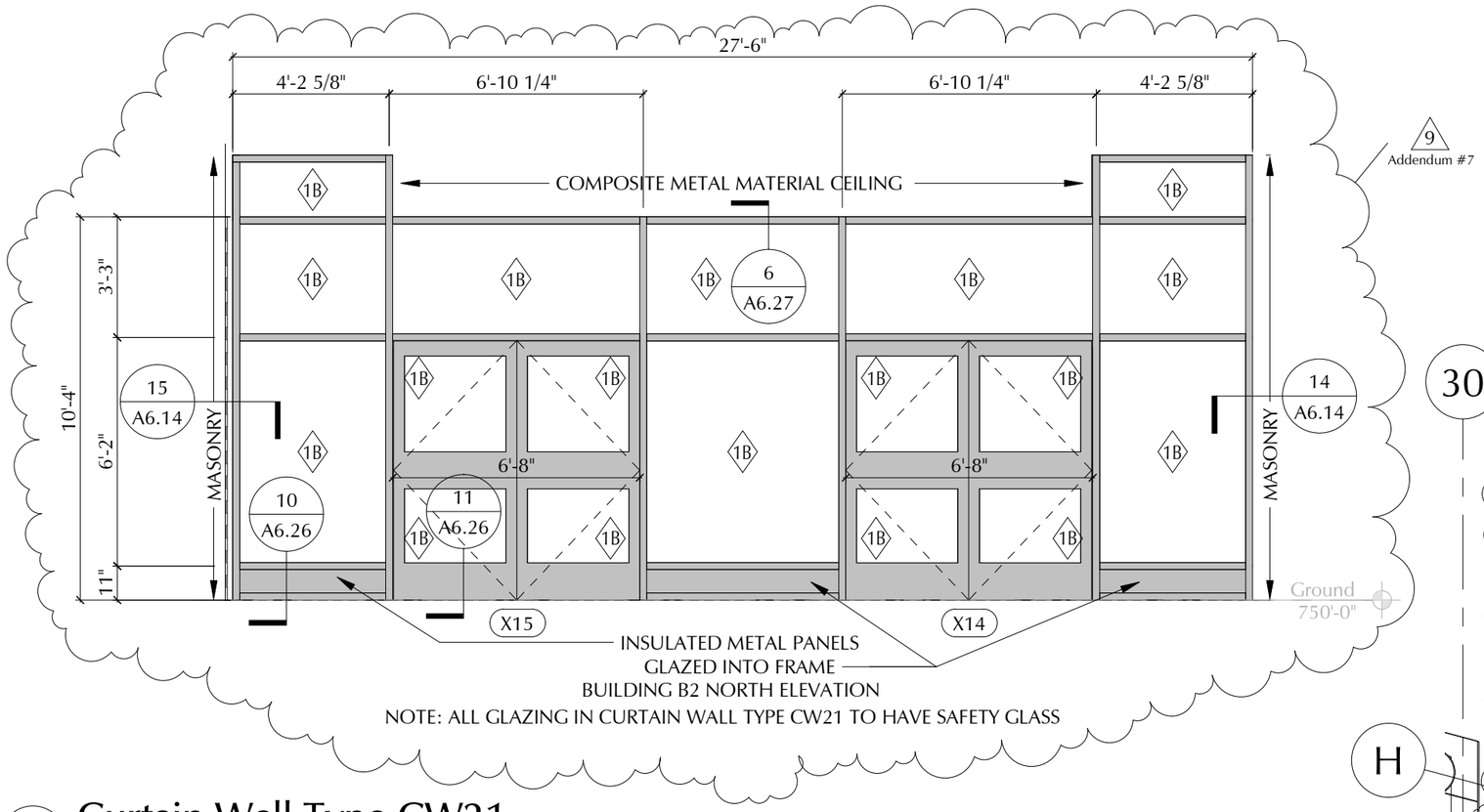
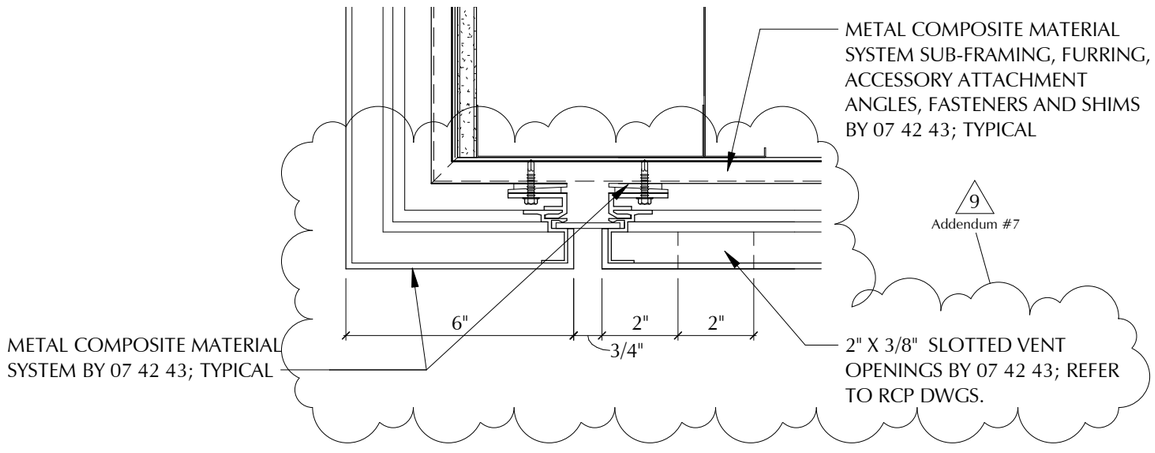


CW21
A6.22

Curtain Wall Type CW21.

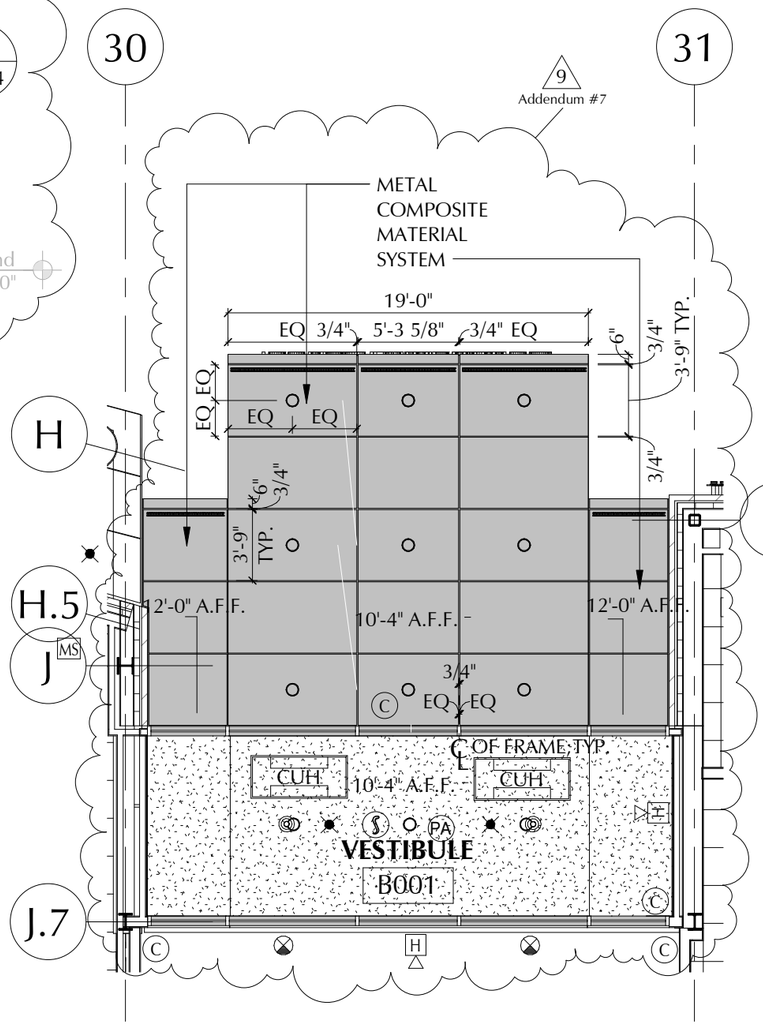
Scale: 1/4" = 1'-0"



4
A6.33

Partial Roof Parapet at Building B2 - Entry Canopy

Scale: 3" = 1'-0"



1
A4.1

Partial Ground Floor Refected Ceiling Plan Section B1

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

DRAWING NAME: Partial Ground Floor RCP & Details

SHEET REF. NO.

DRAWING NUMBER: ADD-7 / A-004

DATE: 02/18/19

SCALE: As indicated

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

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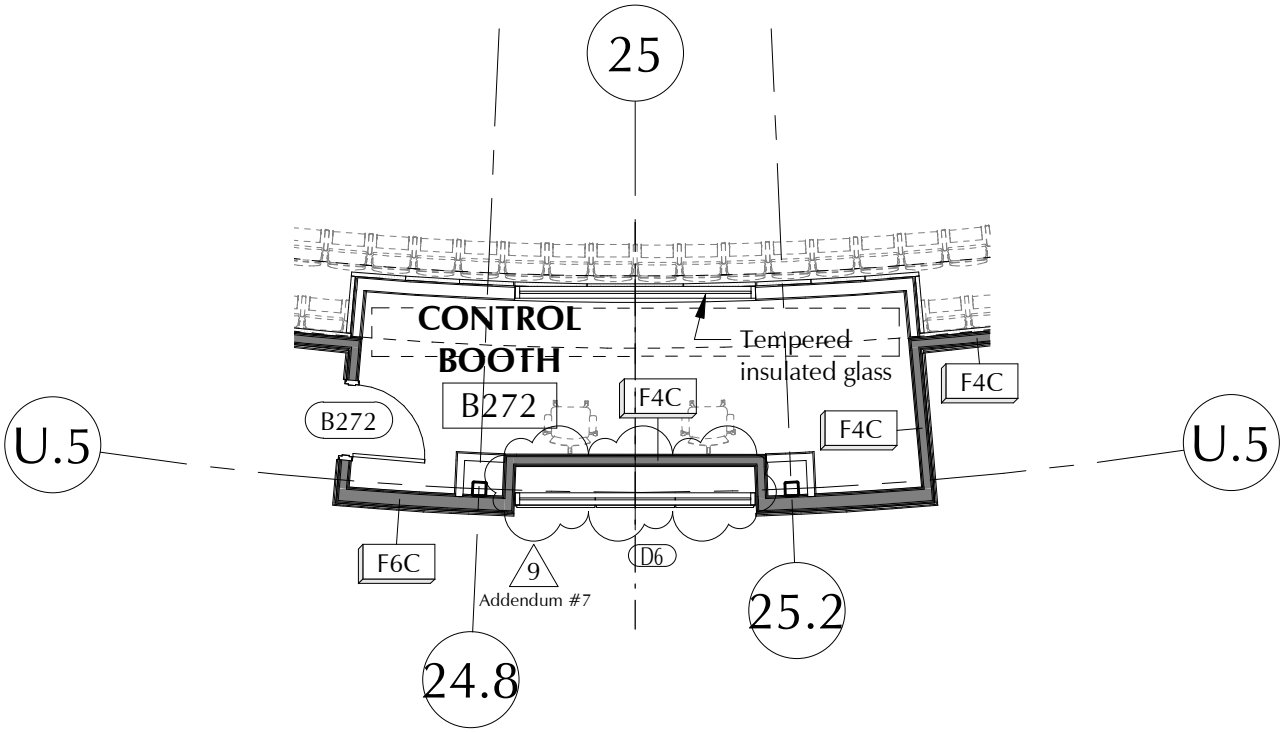
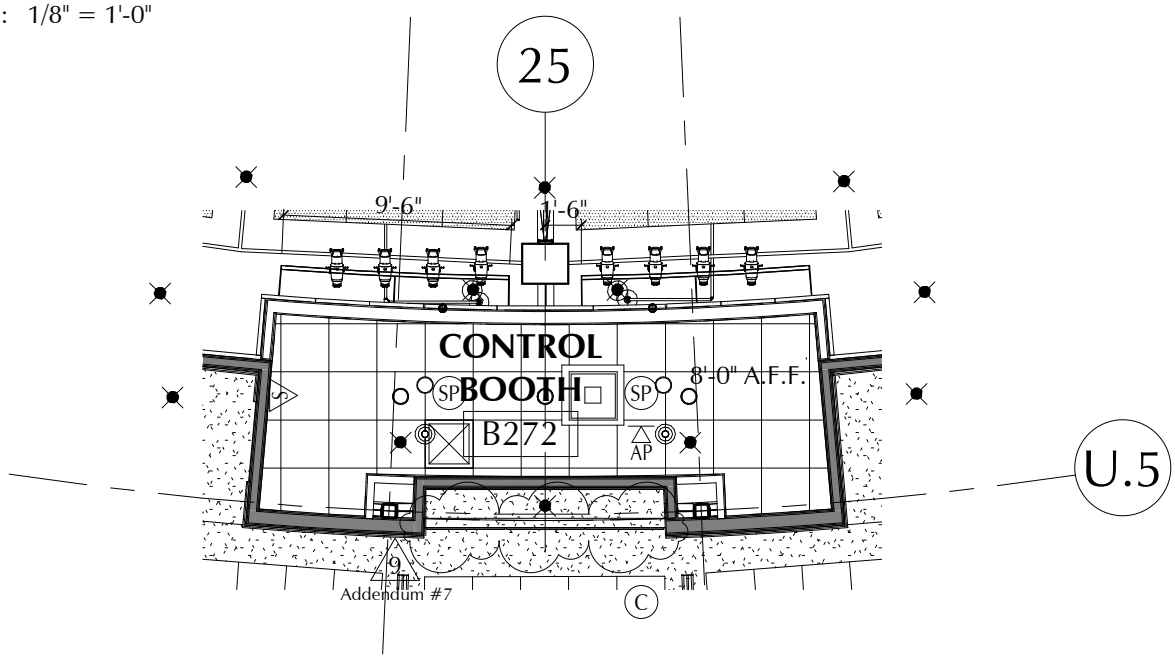


9 / A3.9 Partial Second Floor Plan Section B1

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



1 / A4.9 Partial Second Floor Reflected Ceiling Plan Section B1

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

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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 Second Floor Plan & Reflected Ceiling Plan

SHEET REF. NO.

DATE:
02/18/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
A-005

9
Addendum #7

Sink Base Cabinets		
No.	Description	Description
S	28"x34"x22"	(nominal) sink hinged door base cabinet with (1) shelf
S1	36"x30"x22"	(nominal) ADA-compliant accessible sink base cabinet with knee space and sink
S2	30"x34"x22"	(nominal) ADA-compliant accessible sink base cabinet with knee space and sink
S3	33"x34"x22"	(nominal) accessible base cabinet for base cabinet with knee space
S4	36"x34"x22"	(nominal) ADA-compliant accessible sink base cabinet with knee space and sink
S5	36"x36"	NOT USED
S6	30"x36"x22"	(nominal) sink base cabinet with flush overlay panel, hinged doors and sink
S7	30"x36"x22"	(nominal) sink base cabinet with flush overlay panel, hinged doors and sink
S9	36"x34"	NOT USED
S10	42"x34"x22"	(nominal) sink combination door base cabinet with (1) shelf
S11	36"x36"x22"	(nominal) sink combination door base cabinet with (1) shelf
S12	36"x36"x22"	(nominal) sink combination door base cabinet with (1) shelf

Wall Cabinets		
No.	Description	Description
W1	30"x15"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W2	18"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W3	20"X30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W4	21"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W5	23"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W6	24"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W7	24"x30x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W8	28"x30"x14"	(nominal) open wall case with (1) adjustable shelf
W9	30"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W10	33"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W11	36"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W12	39"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W13	42"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W14	44"x30"x14"	(nominal) hinged solid door wall case with (1) adjustable shelf
W15	30"x16"x14"	(nominal) over sink wall case hinged solid doors with (1) adjustable shelf
W16	30"x18"x14"	(nominal) over sink wall case hinged solid doors with (1) adjustable shelf
W17	30"x20.5"x27"	NOT USED
W18	36"x16"x14"	(nominal) over sink wall case hinged solid doors with (1) adjustable shelf
W19	33"x20"x14"	(nominal) over sink wall case hinged solid doors with (1) adjustable shelf
W20	36"x18"x14"	(nominal) over sink wall case hinged solid doors with (1) adjustable shelf
W21	36"x24"x14"	(nominal) open wall cubby storage 2x3 units
W22	30"x24"x24"	(nominal) corner unit with solid hinged door and (1) adjustable shelf

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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: Casework Schedule
SHEET REF. NO. A9.1
DATE: 2/20/19
SCALE:
DRAWING NUMBER: ADD-7 / A-006

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WORCESTER, MASSACHUSETTS 01605
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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:
Casework Schedule

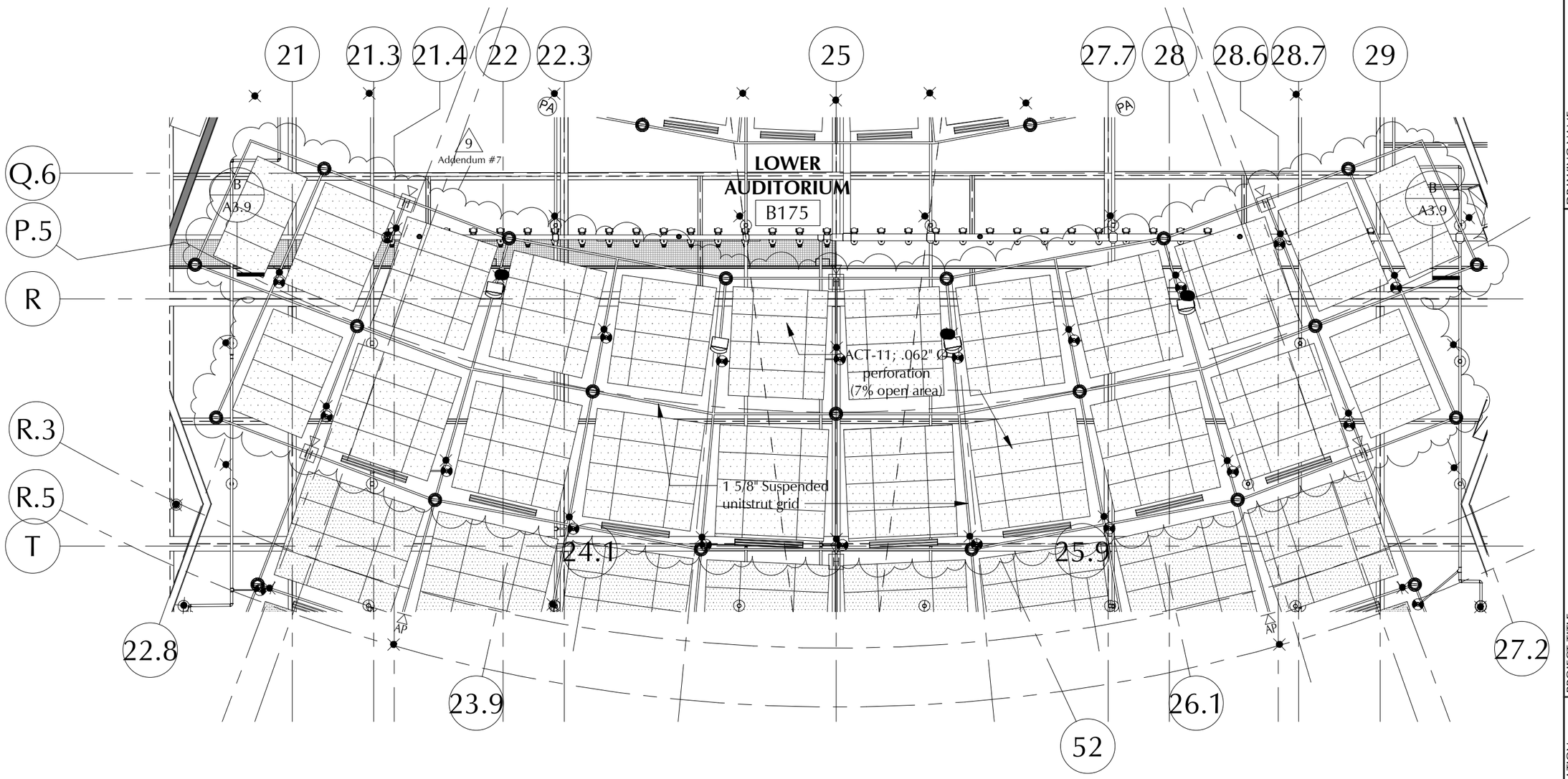
DATE: 02/18/19
SCALE:
REFERENCE: Addendum #7

DRAWING NUMBER:
ADD-7
A-007

SHEET REF. NO.

Full Height Cabinets		
No.	Description	Description
F1	84"x29"x36"	NOT USED
F2	84"x29"x48"	(nominal) hinged solid door tall case with (3) adjustable shelves and one fixed shelf
F3	84"x29"x36"	(nominal) hinged solid door tall case with (5) adjustable shelves and one fixed shelf
F4	84"x29"x42"	(nominal) hinged solid door tall case with (3) adjustable shelves and one fixed shelf on one side, other side with fixed shelf and pull-out garment hanger bracket
F5	84"x29"x48"	(nominal) hinged solid door tall case with (3) adjustable shelves and one fixed shelf on one side, other side with fixed shelf and pull-out garment hanger bracket
F6	84"x29"x36"	(nominal) hinged solid door tall case with (2) adjustable shelves and one fixed center shelf and (6) sliding shelves
F7	84"x24"x36"	(nominal) open tall case with (6) storage cubbies
F8	84"x24"x48"	(nominal) open tall case with (20) open storage cubbies
F9	84"x29"x48"	(nominal) hinged solid door tall case with (24) sliding plastic storage trays
F10	84"x29"x24"	(nominal) hinged solid door tall case with fixed shelf and pull-out garment hanger bracket
F11	84"x27"30"	Combination tall microwave/oven cabinet with hinged doors with (1) adjustable shelf and drawers

Reference Drawing A9.1



1 / A4.9 Partial Second Floor Reflected Ceiling Plan Section B1

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

DRAWING NAME: B175 Auditorium Ceiling

SHEET REF. NO. A4.9

DRAWING NUMBER: ADD-7 / A-008

DATE: 02/18/19

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

PROJECT TITLE:

South High Community School

170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:

Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOURELLE PAGANO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 305
WORCESTER, MASSACHUSETTS 01605

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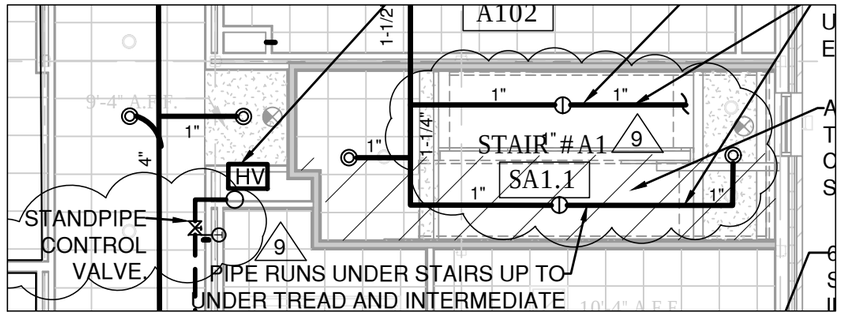
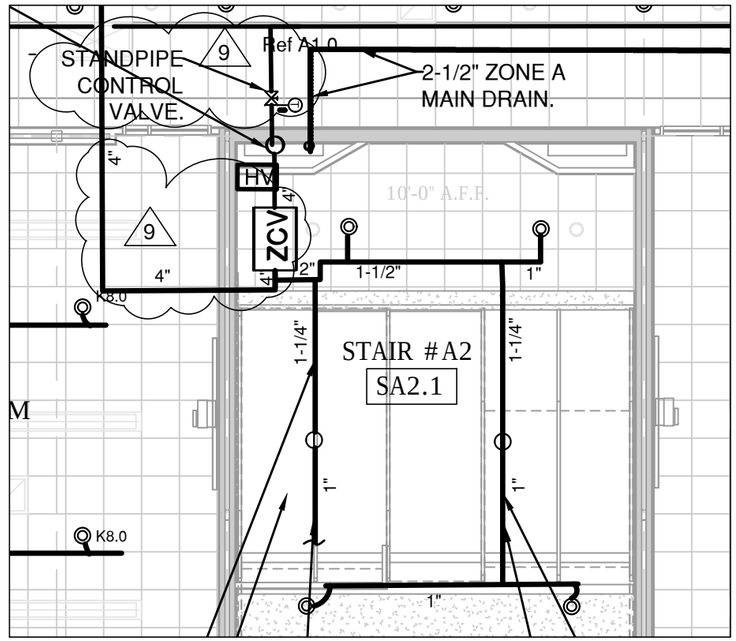
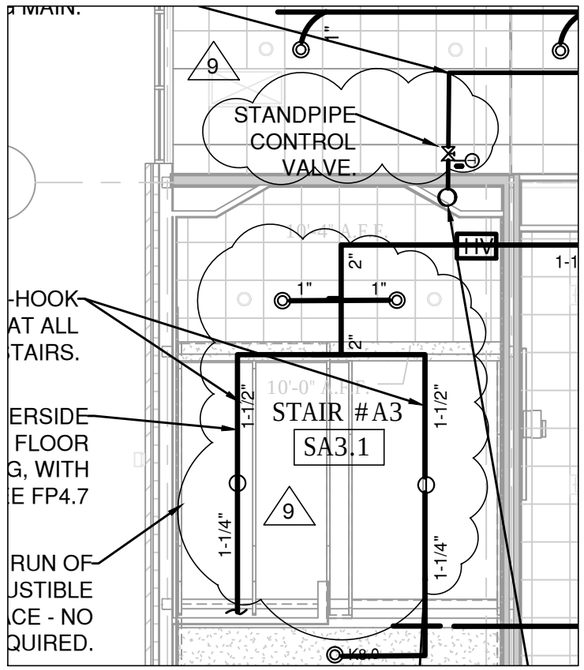


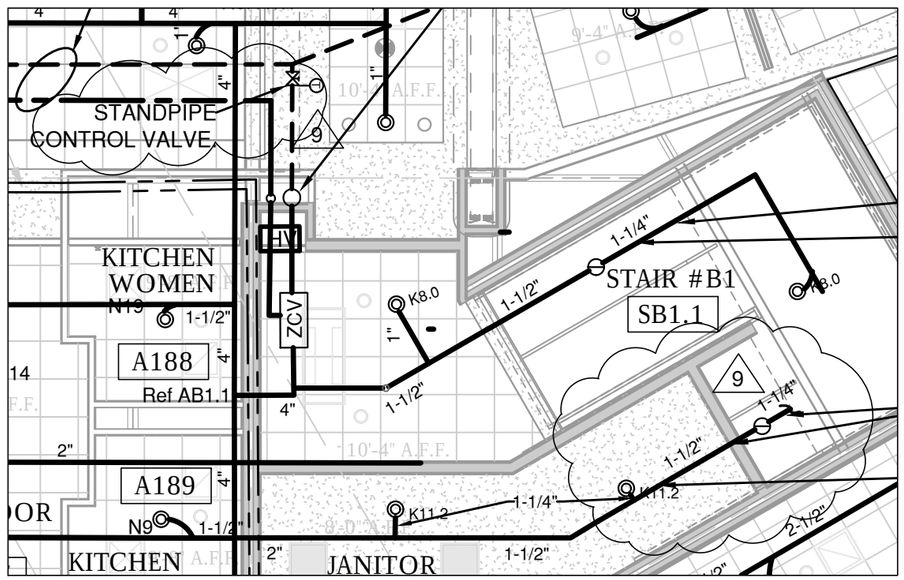
1 FP001 **Stair A1 Revisions**
Scale: 1/8" = 1'-0"



2 FP001 **Stair A2 Revisions**
Scale: 1/8" = 1'-0"



3 FP001 **Stair A3 Revisions**
Scale: 1/8" = 1'-0"



4 FP001 **Stair B1 Revisions**
Scale: 1/8" = 1'-0"

DRAWING NAME: Revisions at Stairs A1, A2, A3, B1
SHEET REF. NO. FP4.3 & 4.4
DRAWING NUMBER: ADD-7
FP.001
DATE: 2/20/19
SCALE: AS SHOWN

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

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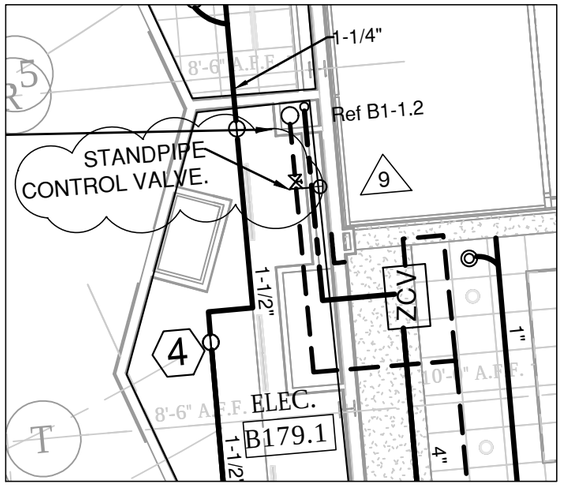
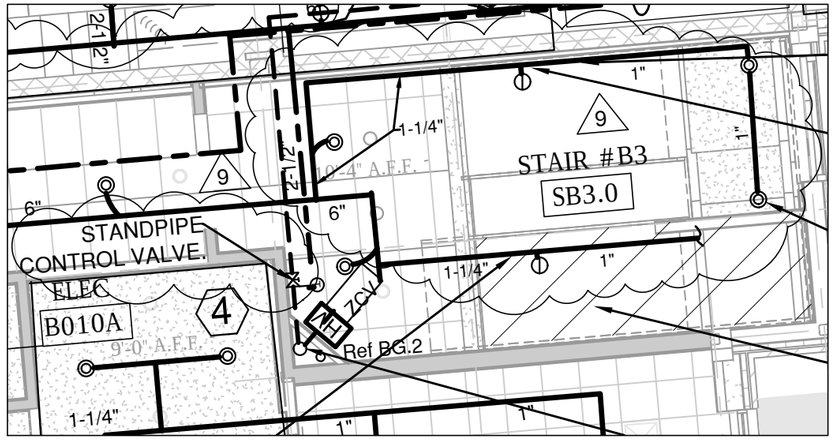
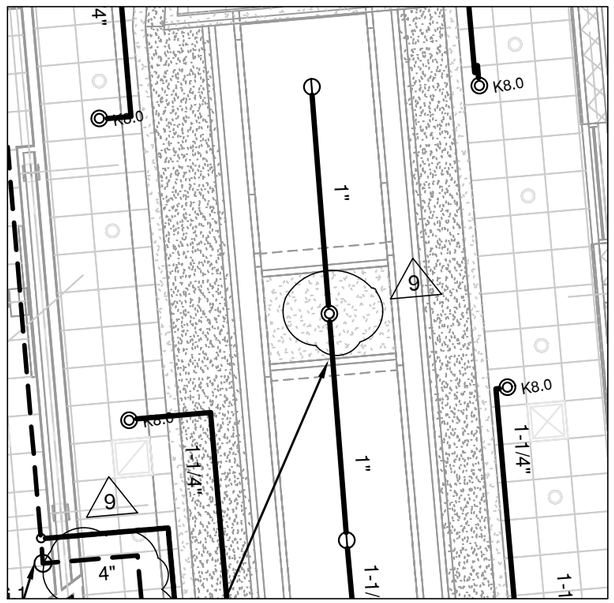


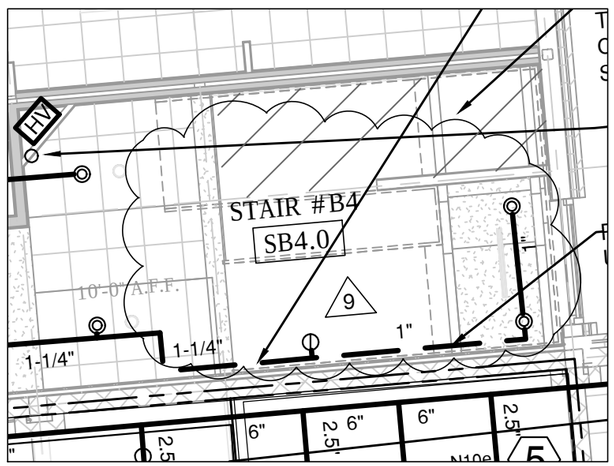
1 FP002 **Stair B2 Control Valve in Elec B179.1**
Scale: 1/8" = 1'-0"



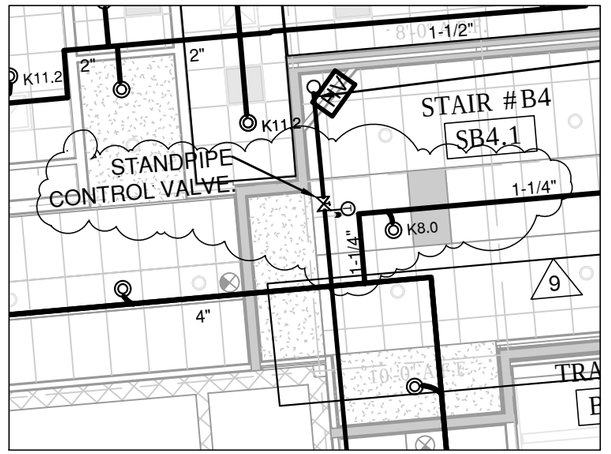
2 FP002 **Stair B3 Revisions**
Scale: 1/8" = 1'-0"



3 FP002 **Stair B2 Revisions - Ground Floor**
Scale:



4 FP002 **Stair B4 Revisions - Ground Floor**
Scale:



5 FP002 **Stair B4 Revisions - 1st Floor**
Scale:

DRAWING NAME: Revisions At Stairs B2, B3, and B4
SHEET REF. NO.: FP4.1, 4.2 4.5, 4.6
DRAWING NUMBER: ADD-7 / FP.002
DATE: 2/20/19
SCALE: AS SHOWN

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

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100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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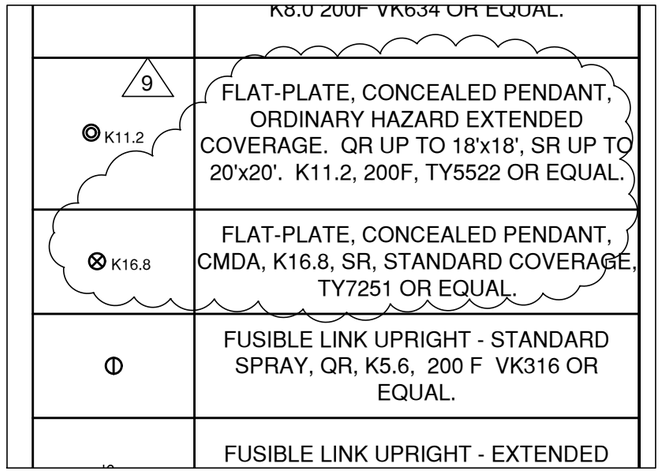
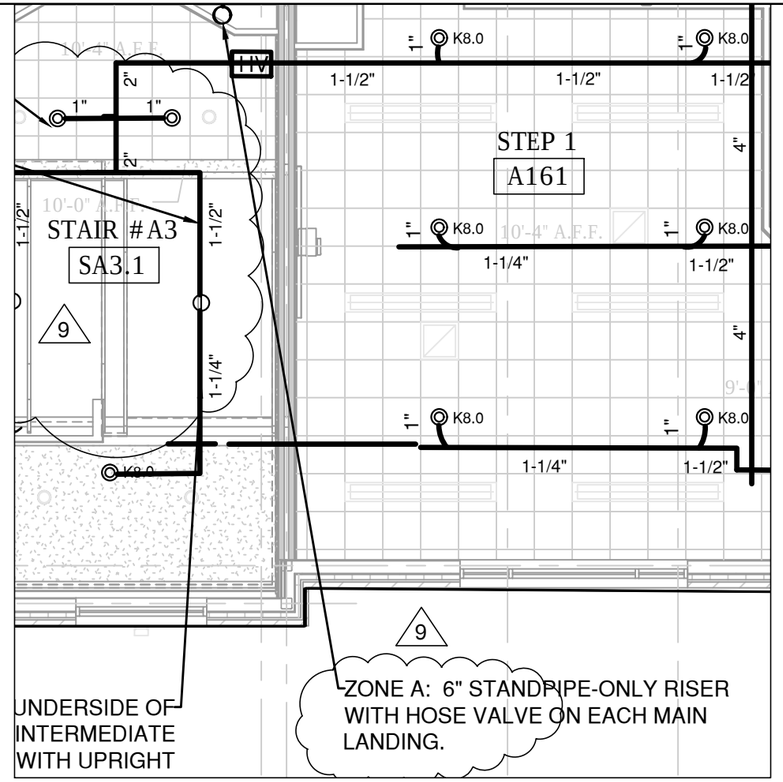


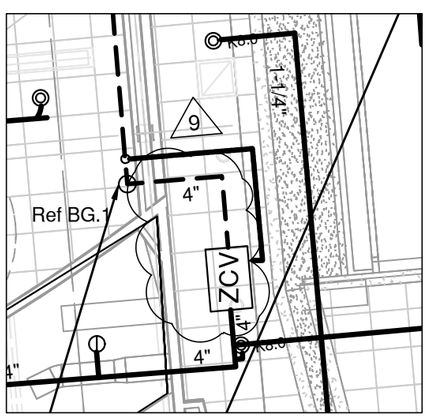
1 FP003 **Sprinkler Change**
Scale: 1/8" = 1'-0"

STANDPIPE SUMMARY			
LOCATION	TYPE	NOMINAL PIPE SIZE	SERVICE AREA
STAIR A1	STANDPIPE ONLY	4" ENTIRETY	AB VERTICAL WING - 1ST TO 3RD FLOORS
STAIR A2	SPRINKLER-STANDPIPE	6" ENTIRETY	A AREA, 1ST FLOOR TO 3RD FLOOR
STAIR A3	STANDPIPE ONLY	6" ENTIRETY	A AREA, 1ST FLOOR TO 3RD FLOOR
STAIR B1	SPRINKLER-STANDPIPE	4" ENTIRETY	AB AREA, 1ST FLOOR TO 3RD FLOOR
MECH B179.1	SPRINKLER-STANDPIPE	6" ENTIRETY	B1 AREA, GROUND FLOOR TO 2ND FLOOR
STAIR B3	SPRINKLER-STANDPIPE	6" TO 1ST FLOOR CEILING, 4" THEREAFTER	B2 AREA, GROUND FLOOR TO 2ND FLOOR
STAIR B4	STANDPIPE ONLY	4" ENTIRETY	B2 AREA, GROUND FLOOR TO 1ST FLOOR

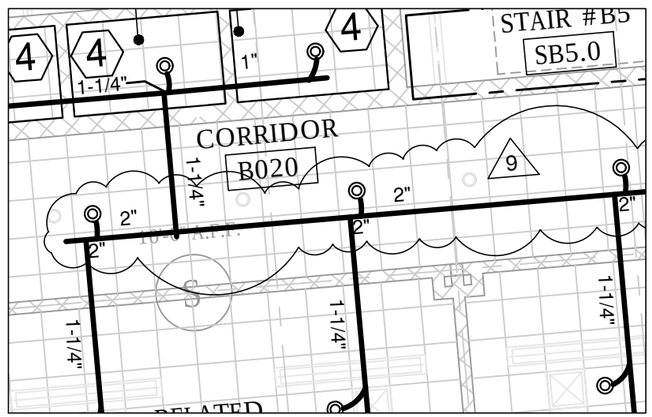
2 FP003 **Standpipe Stair A3 Size Change**
Scale: 1/8" = 1'-0"



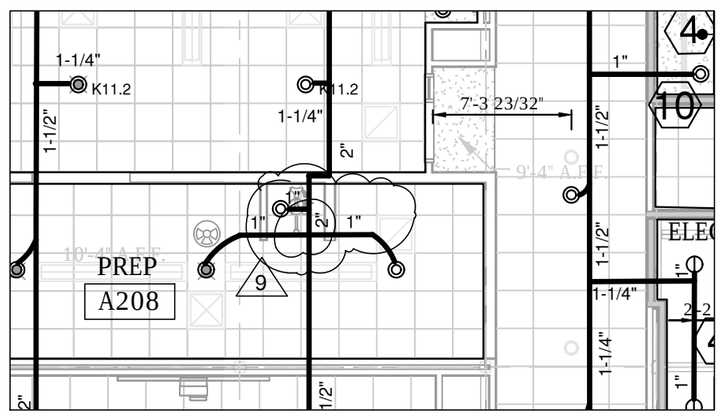
3 FP003 **Standpipe Stair A3 Size Change**
Scale: 1/8" = 1'-0"



4 FP003 **Riser B1 Grd - Pipe Size**
Scale: 1/8" = 1'-0"



5 FP003 **B2 Ground - Pipe Sizes Clarified**
Scale: 1/8" = 1'-0"



6 FP003 **Pipe Size - Prep A208 - Typ. A108 & A308 also**
Scale: 1/8" = 1'-0"

DRAWING NAME: Pipe Sizes Clarified or Revised. 2 Legend Changes
SHEET REF. NO. FP1.1, 1.4, 4.1, 4.2, 4.3, 4.8
DRAWING NUMBER: ADD-7 / FP.003
DATE: 2/20/19
SCALE: AS SHOWN

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

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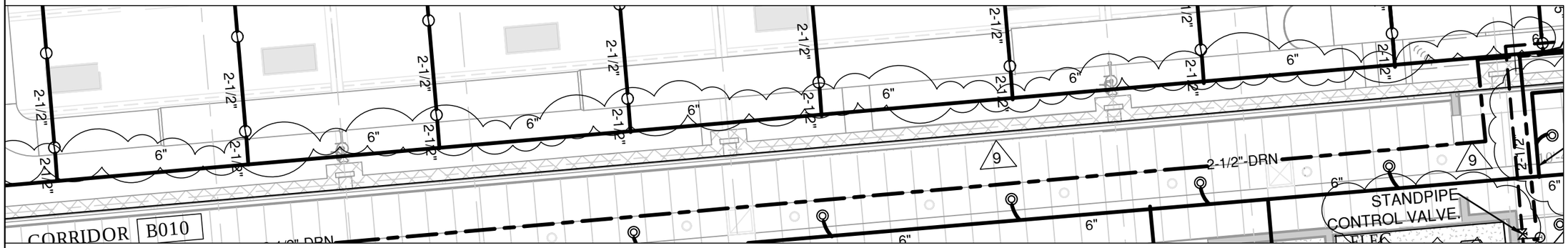
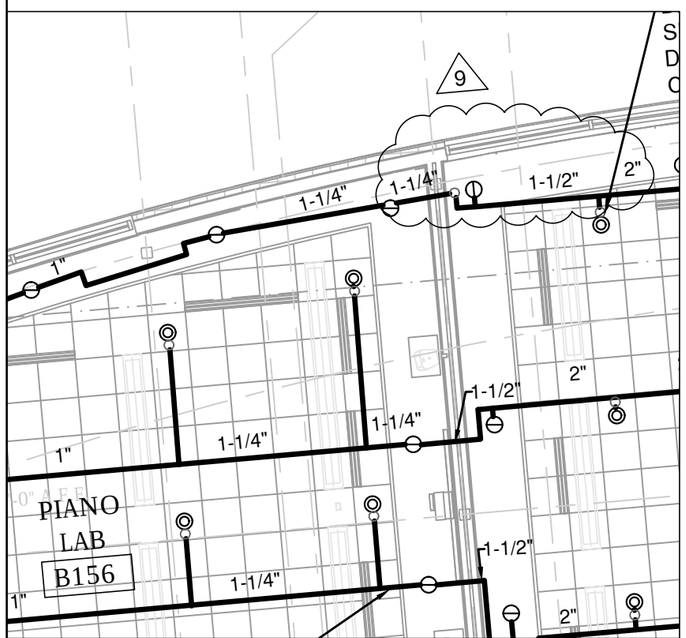
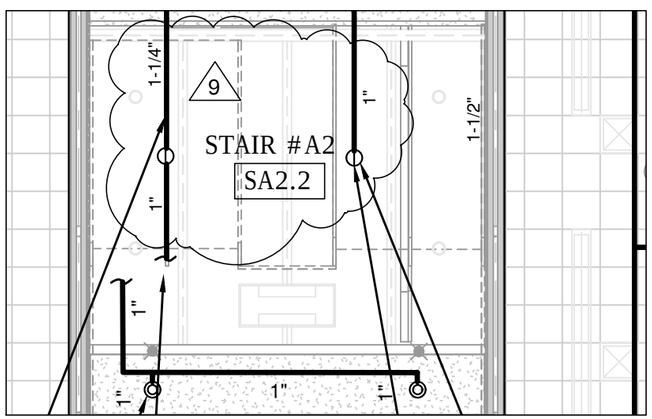
100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



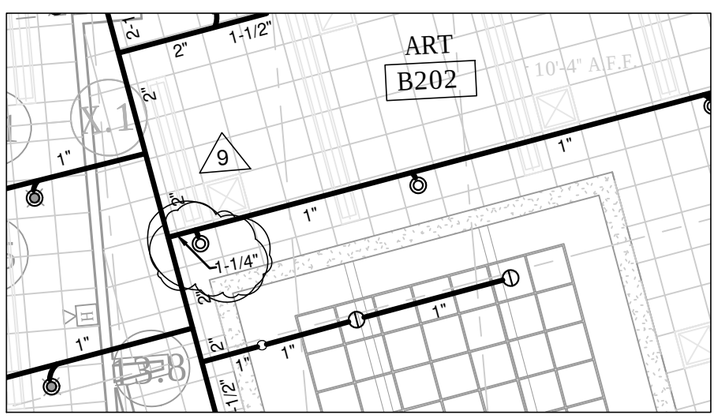
1 FP004 **B2 Ground - Auto Diesel Lower Main Pipe Size Clarified**
Scale: 1/8" = 1'-0"



2 FP004 **B1-1st Pipe Size Revision**
Scale: 1/8" = 1'-0"



3 FP004 **Stair A2.2 Pipe Sizes Clarified**
Scale: 1/8" = 1'-0"



4 FP004 **Art B202 Pipe Size Clarified**
Scale: 1/8" = 1'-0"

SHEET REF. NO.: FP4.2, 4.5, 4.7, 4.10

DRAWING NAME: Pipe Sizes Clarified or Revised.

DRAWING NUMBER: ADD-7 / FP.004

DATE: 2/20/19

SCALE: AS SHOWN

South High Community School

170 Apricot Street, Worcester, MA 01603

PROJECT TITLE: FINAL BID PACKAGE

CLIENT INFORMATION: Worcester Public Schools

City of Worcester
Massachusetts, 01605

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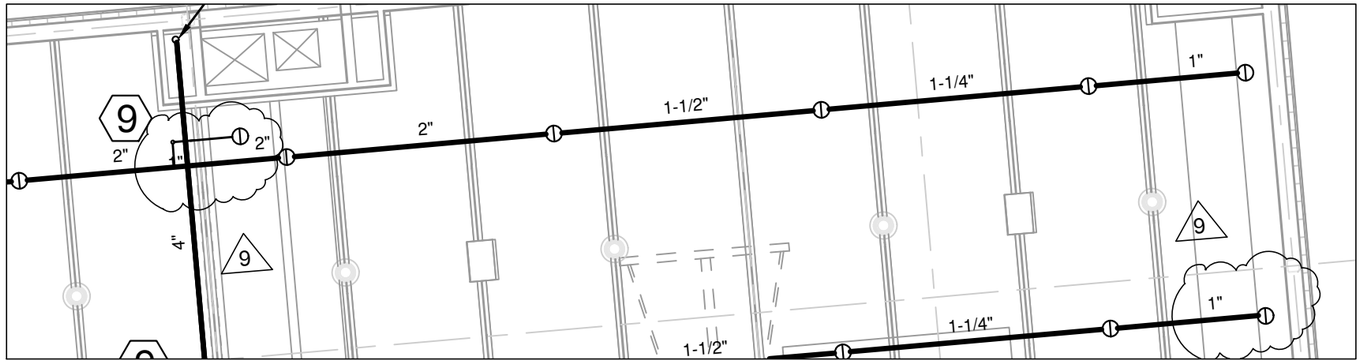
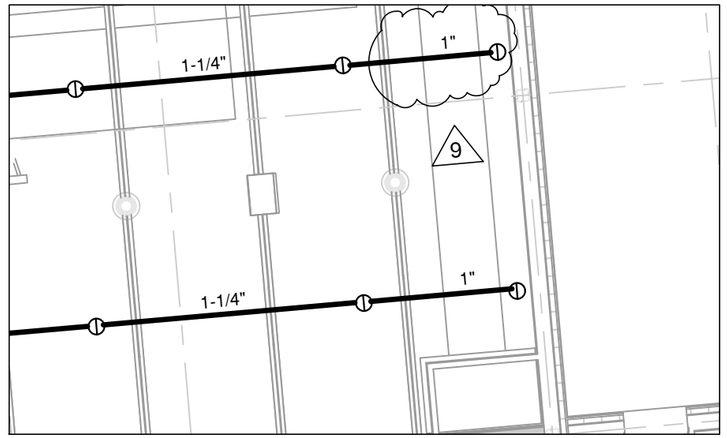
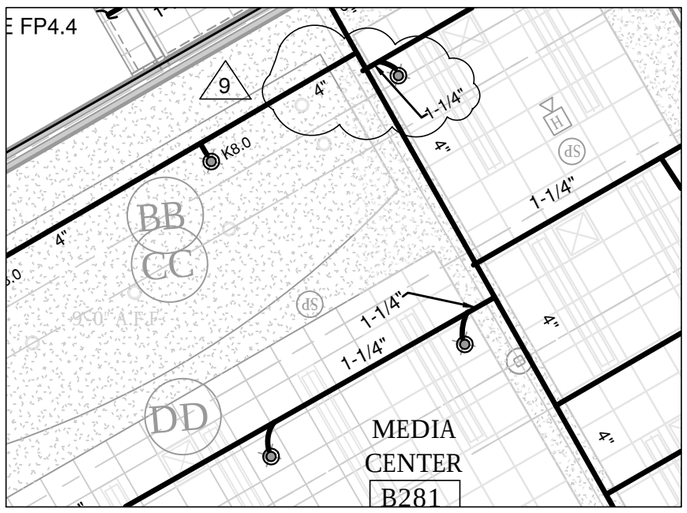
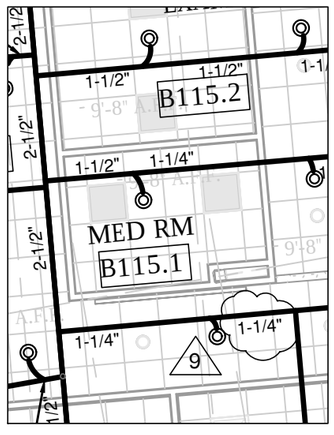


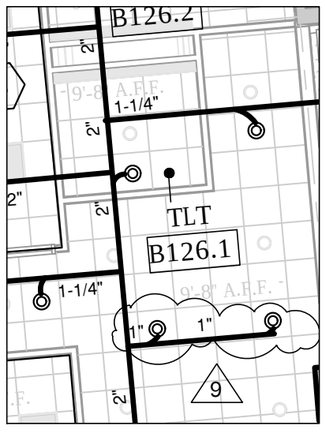


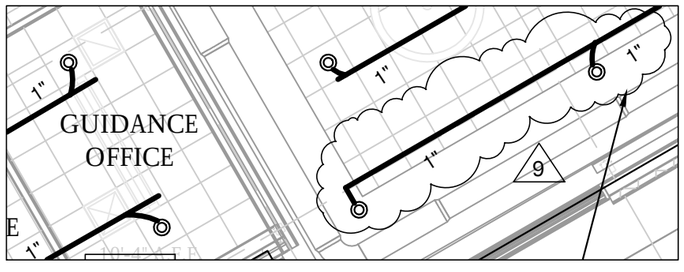
1 FP005 B2 2nd - Gym Sprinkler and Piping Locations Clarified (Upper Right and Lower Right)

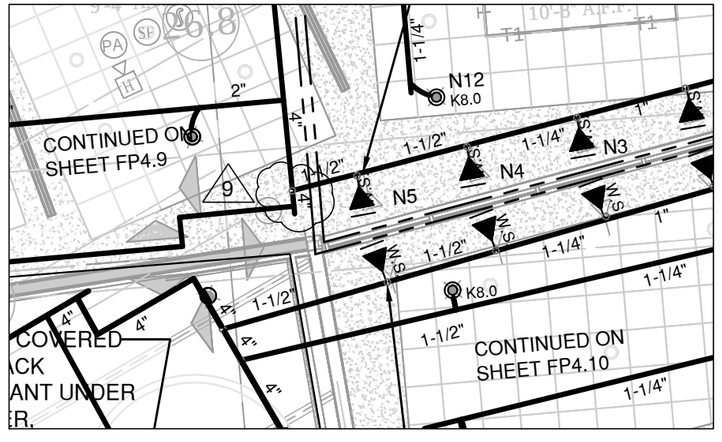
Scale: 1/8" = 1'-0"











2 FP005 Corridor B120 Pipe Sizes Clarified

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

3 FP005 Media B281 Pipe Sizes Clarified

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

4 FP005 Upper Lobby Pipe Sizes Clarified

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

DRAWING NAME: Pipe Sizes or Sprinkler Locations Clarified or Revised.

SHEET REF. NO. FP4.2, 4.6, 4.8, 4.10

DRAWING NUMBER: ADD-7 FP.005

DATE: 2/20/19

SCALE: AS SHOWN

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

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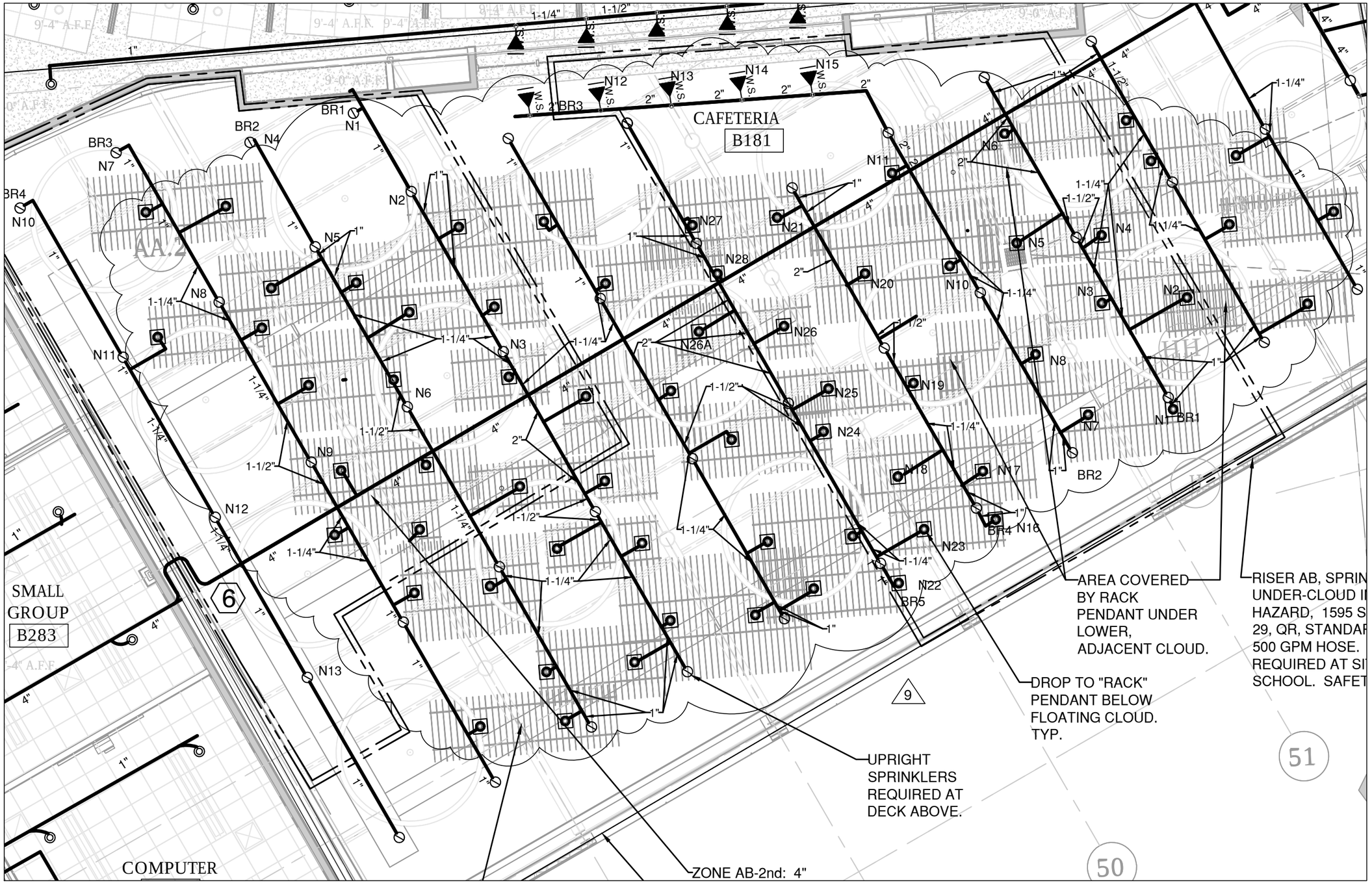
100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



1 FP006 Cafeteria - Missing Sprinklers Turned On

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

DRAWING NAME: Cafeteria Missing Sprinklers Turned On

SHEET REF. NO. FP4.8

DRAWING NUMBER: ADD-7 / FP.006

DATE: 2/20/19

SCALE: AS SHOWN

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

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100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

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1 FP007 Scale: 1/8" = 1'-0"

Auditorium - Missing Pipe Sizes Turned On - Col. R5 and Lower

LAMOUREUX PAGANO 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Auditorium Missing Pipe Sizes Turned On - Column R5 and Lower DATE: 2/20/19 SCALE: AS SHOWN	SHEET REF. NO. FP4.9 DRAWING NUMBER: ADD-7 FP.007

1 / FP008 Auditorium - Missing Pipe Sizes Turned On - Col. R5 and Higher

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

DRAWING NAME: Auditorium Missing Pipe Sizes Turned On - Column R5 and Higher

SHEET REF. NO. FP4.9

DATE: 2/20/19

DRAWING NUMBER: ADD-7 / FP.008

SCALE: AS SHOWN

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

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100 GROVE STREET, SUITE 300
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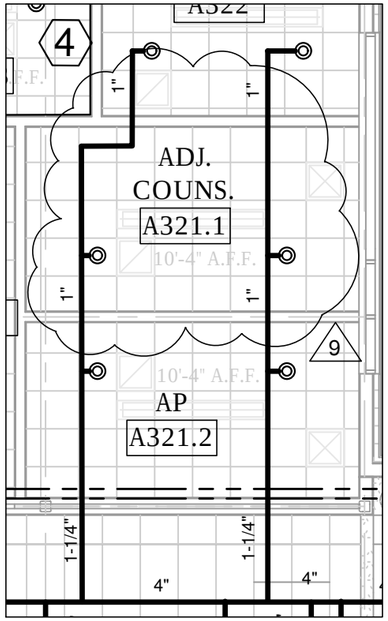
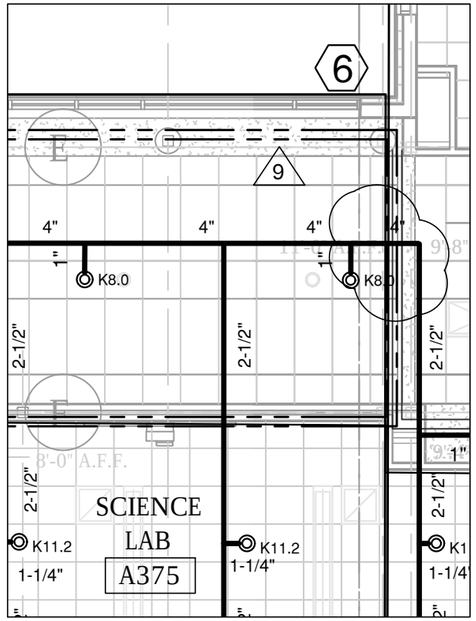
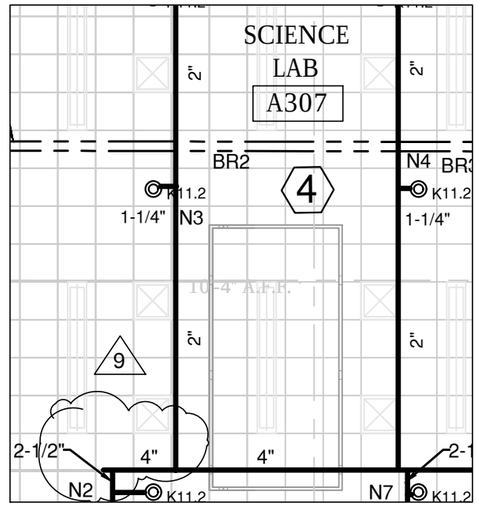


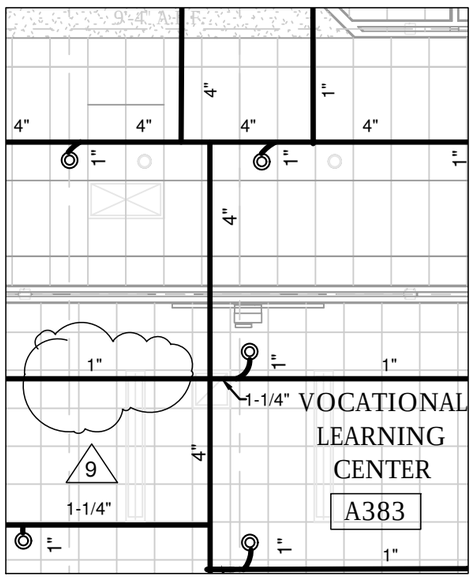
1 FP009 A321.1 and 321.2 Pipe Sizes
Scale: 1/8" = 1'-0"



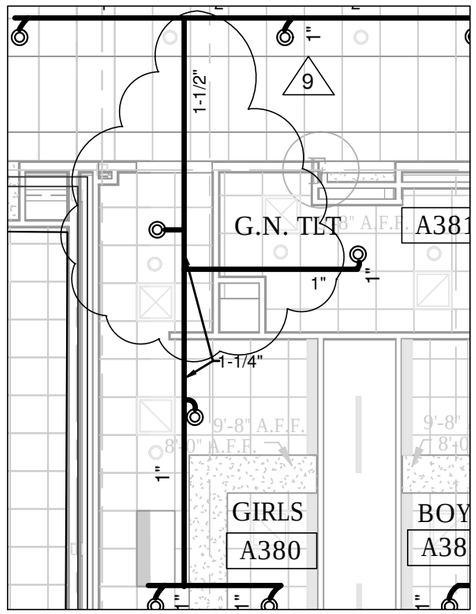
2 FP009 Corridor A360 Pipe Size Clarified
Scale: 1/8" = 1'-0"



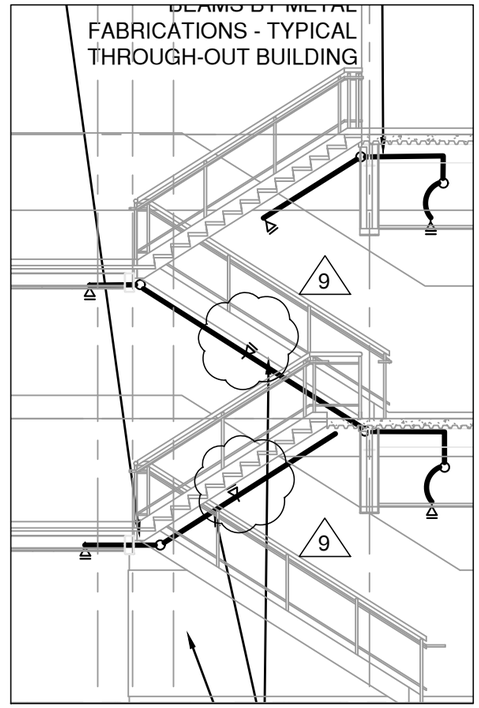
3 FP009 Science A307 Pipe Size Clarified
Scale: 1/8" = 1'-0"



4 FP009 Voc Learning Pipe Size Clarified
Scale: 1/8" = 1'-0"



5 FP009 A380 Piping / Pipe Size Clarified
Scale: 1/8" = 1'-0"
Typ. A180 and A280



5 FP009 Under-Tread Uprights - Typ. All Stairs
Scale: 1/8" = 1'-0"

DRAWING NAME: Pipe Sizes Clarified Under-Stair-Tread Sprinklers Changed to Uprights
SHEET REF. NO. FP4.11, 4.12, 7.1
DRAWING NUMBER: ADD-7 FP.009
DATE: 2/20/19
SCALE: AS SHOWN

FINAL BID PACKAGE

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

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

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100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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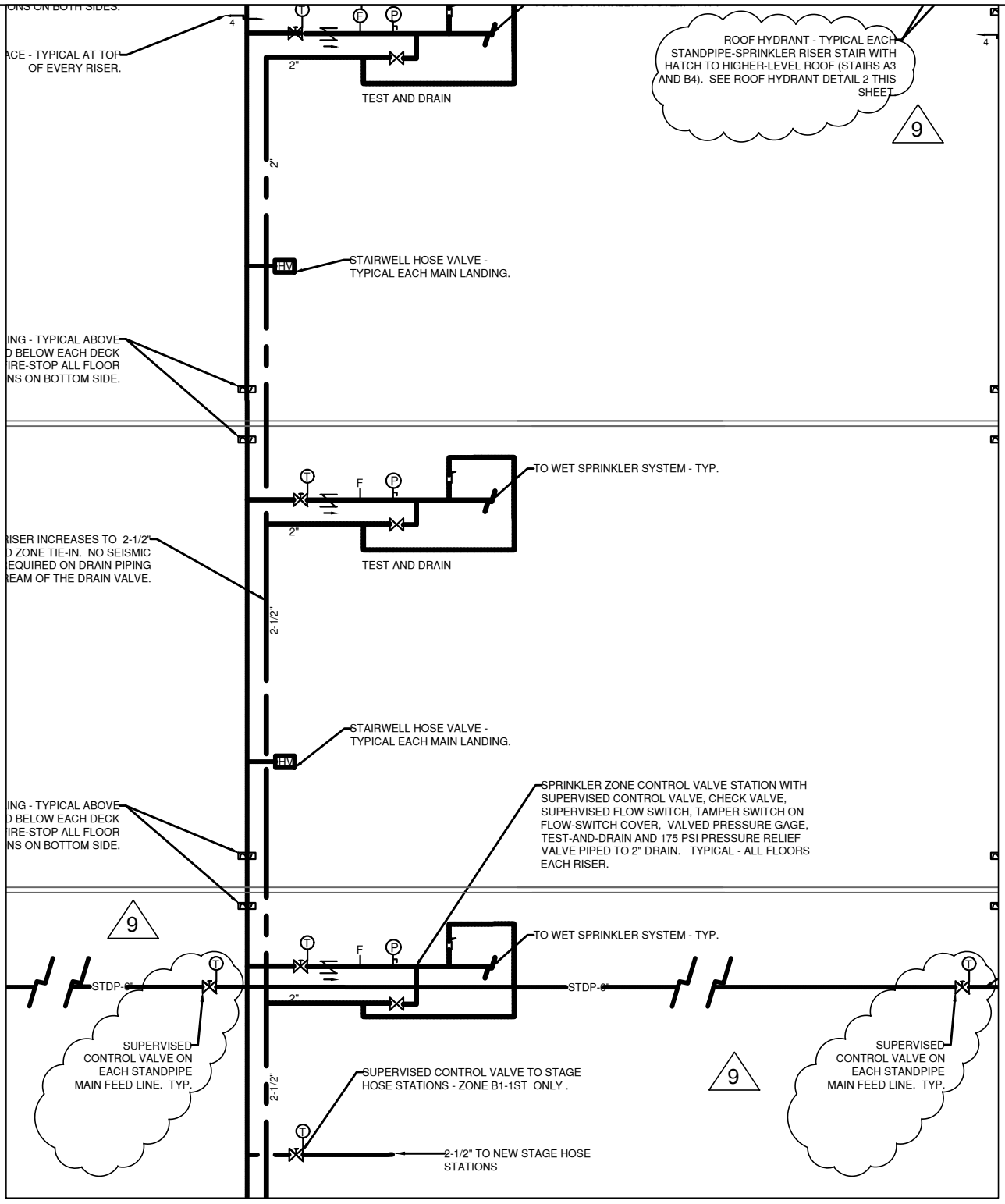


1 / FP010 **Service Entrance Revisions**

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

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME: FP Service Entrance Revisions

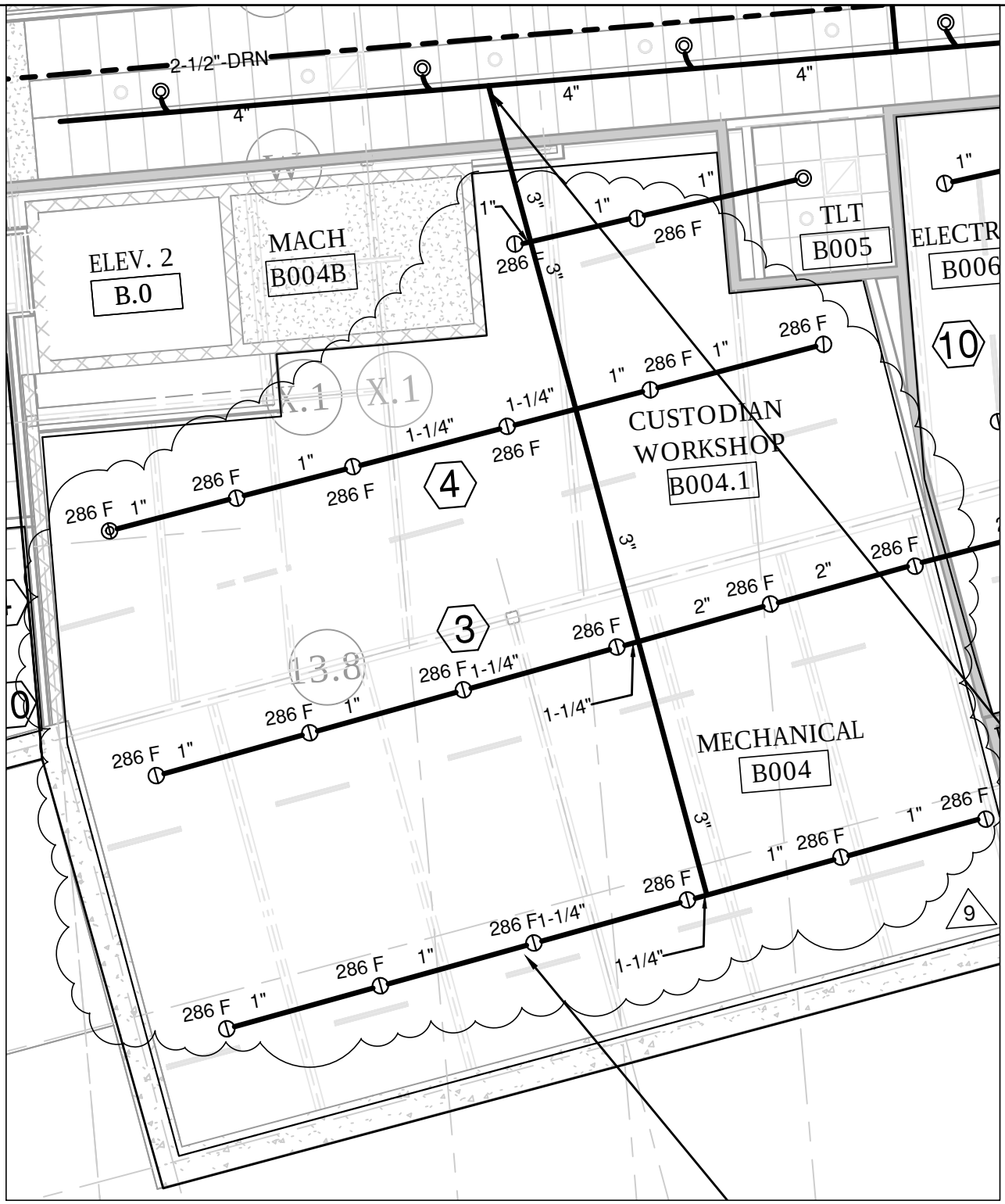
SHEET REF. NO. FP1.4

DATE: 2/20/19

SCALE: AS SHOWN

REFERENCE:

DRAWING NUMBER:
ADD-7
FP.010



1 / FP011 Mechanical Room High Temperature Sprinklers

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

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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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: Mech. Rm. High Temperature Sprinklers

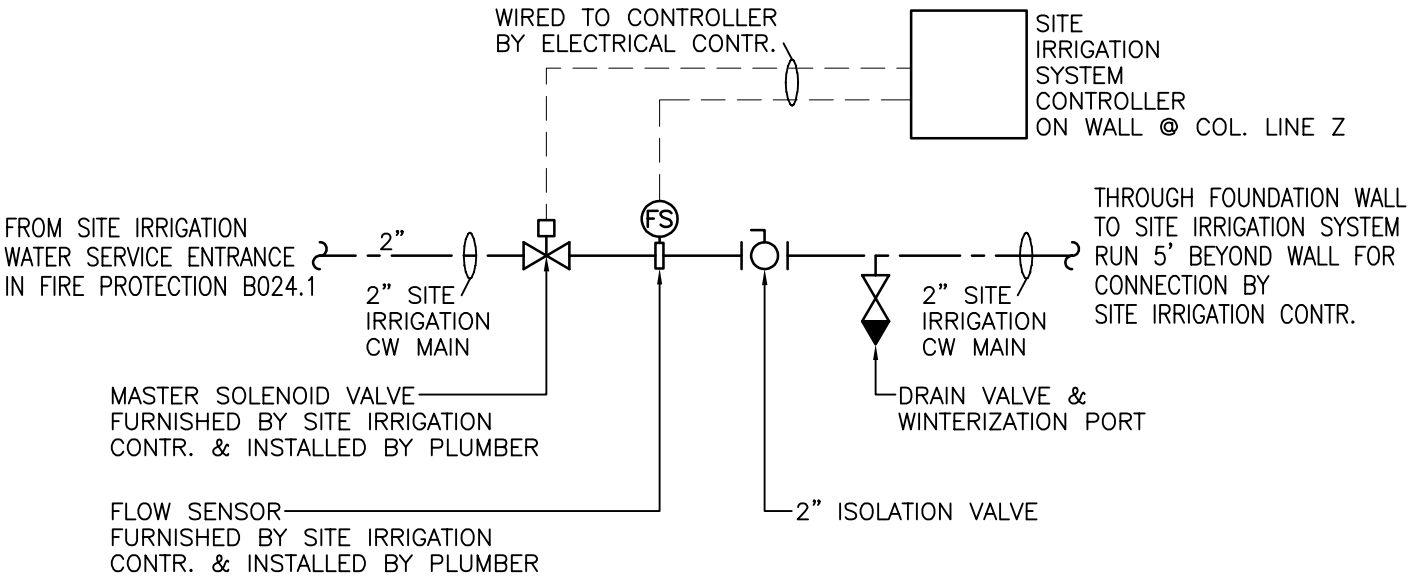
SHEET REF. NO. FP4.2

DATE: 2/20/19

SCALE: AS SHOWN

REFERENCE:

DRAWING NUMBER:
ADD-7
FP.011



SITE IRRIGATION SYSTEM CONNECTION DETAIL

NO SCALE

MECHANICAL ROOM B004

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Site Irrigation System Connection Detail

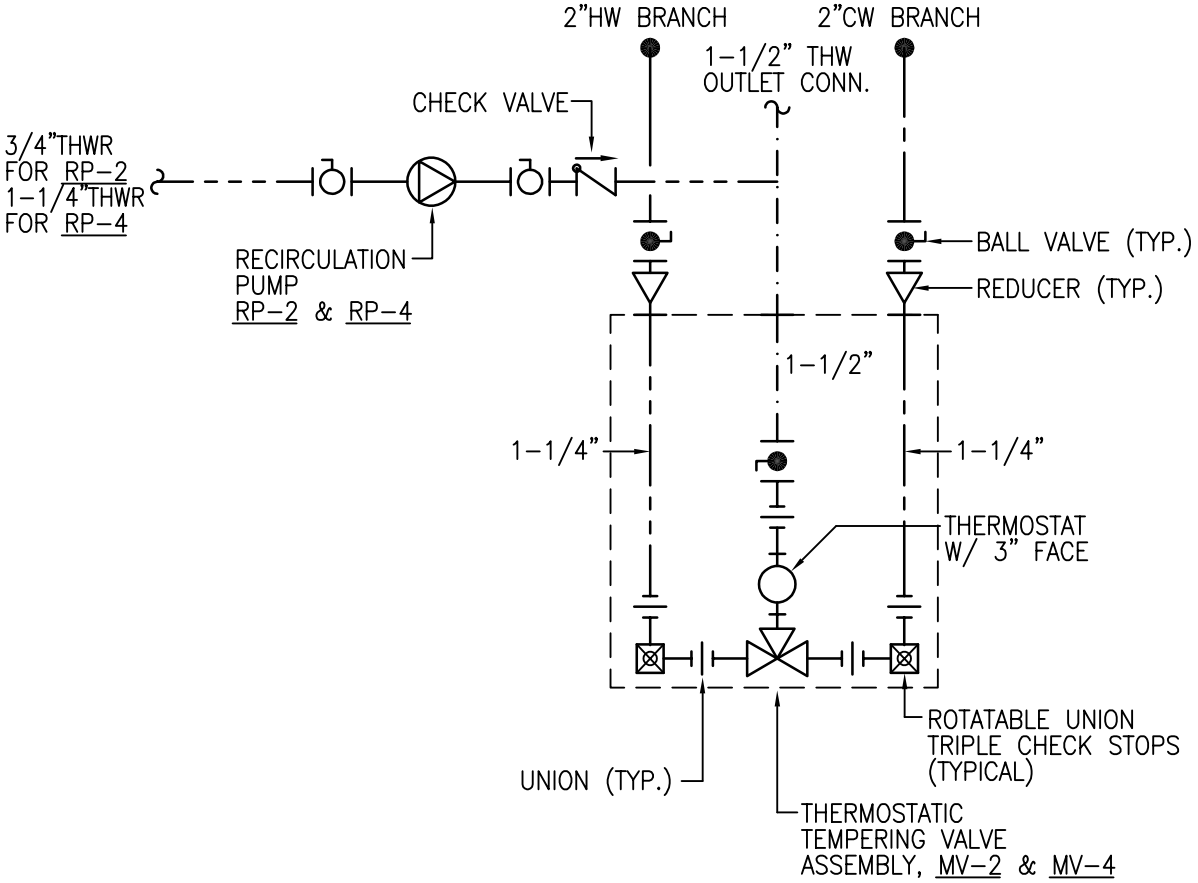
SHEET REF. NO.
P4.7

DATE:
2/20/19

SCALE:
AS NOTED

REFERENCE:
DETAIL 23

DRAWING NUMBER:
ADD-7
P-001



DETAIL OF PIPING AT THERMOSTATIC MIXING VALVES, MV-2 & MV-4

NOT TO SCALE

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Detail of Piping at Thermostatic Mixing Valves, MV-2 & MV-4

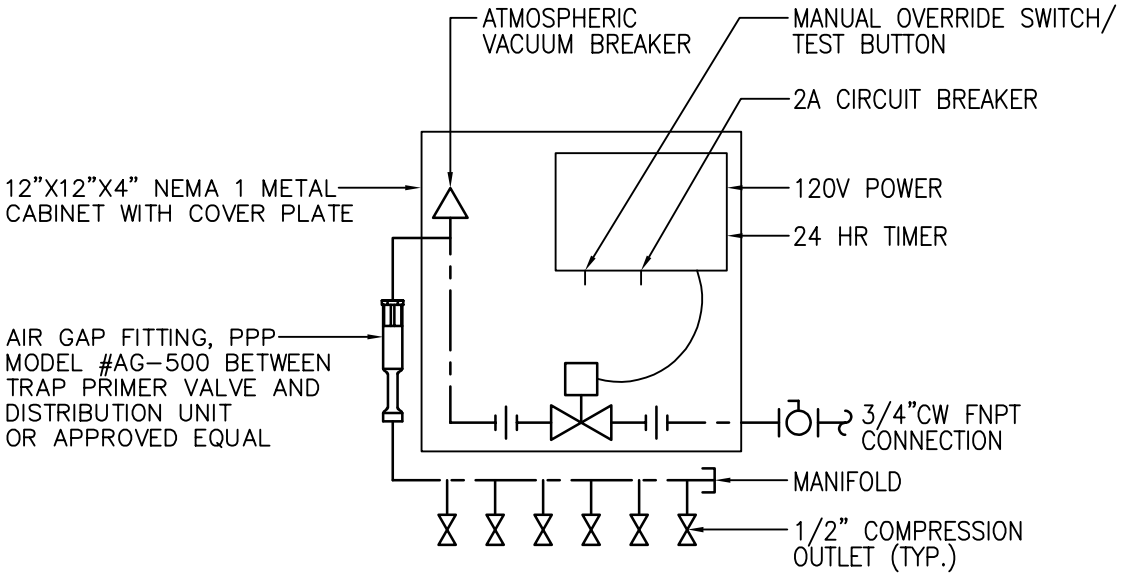
SHEET REF. NO.
P4.7

DATE:
2/20/19

SCALE:
AS NOTED

REFERENCE:
DETAIL 24

DRAWING NUMBER:
ADD-7
P-002



ELECTRONIC TRAP PRIMER VALVE PIPING DETAIL

NOT TO SCALE

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE
South High Community School
170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Electronic Trap Primer Valve Piping Detail

SHEET REF. NO.
P4.7

DATE:
2/20/19

SCALE:
AS NOTED

REFERENCE:
DETAIL 25

DRAWING NUMBER:
ADD-7
P-003

MIXING VALVE SCHEDULE

UNIT NUMBER	MV–1	MV–2	MV–3	MV–4	MV–5	MV–6	MV–7	MV–8	MV–10	POINT–OF–USE
MANUFACTURER ①	POWERS	POWERS	POWERS	POWERS	POWERS	POWERS	POWERS	POWERS	POWERS	POWERS
MODEL	LFIS200C00LP+	ETV–400	LFMM432	ETV–400	LFLM496–1	LFLM496–1	LFLM496–1	LFLM496–1	ES150	LFG480–11
SERVICE	120°F DOMESTIC HW	4 EMERG. SHOWERS 6 EMERG. EYEWASH	SCIENCE RM SINKS LHW	18 EMERG. SHOWERS	15 LAVATORIES	12 LAVATORIES	7 HAND SINKS	9 LAVATORIES	ONE EMERG. EYEWASH	VARIOUS FIXTURES
TYPE	DIGITAL	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC	THERMOSTATIC
MIXED WATER TEMPERATURE (°F)	120	70	110	70	110	110	110	110	70	110
PROBABLE FLOW RATE (GPM)	300	40	19.5	40	0.5	0.5	6	0.5	3	0.25
MIN. FLOW RATE (GPM)	0.5	3	1	3	0.17	0.17	.5	0.17	3	0.25
MAX. FLOW RATE (GPM)	405	48.1	45	48.1	2.04	2.04	8	1.36	7.1	3
MAX. PRESSURE DROP (PSI)	10	10	20	10	5 @ 4 GPM	5 @ 4 GPM	20	5 @ 4 GPM	20	45
WATER PRESSURE DROP (PSIG)	5	8	5.5	8	1	1	11	1	<5	–
INLET PIPE SIZE (IN)	2–1/2"	1–1/4"	3/4"	1–1/4"	3/4"	3/4"	3/4"	3/4"	1/2"	3/8"
OUTLET PIPE SIZE (IN)	3"	1–1/2"	1"	1–1/2"	3/4"	3/4"	3/4"	3/4"	1/2"	3/8"
RETURN PIPE SIZE (IN)	2"									

– WATER PRESSURE DROP IN @ PROBABLE FLOW RATE.

① MIXING VALVES SHALL BE POWERS, LEONARD VALVE COMPANY, SYMMONS, LAWLER, ARMSTRONG RADA OR APPROVED EQUAL

PUMP SCHEDULE

UNIT NUMBER		RP–1 & RP–1A	RP–2	RP–3	RP–4	HP–1, HP–2 & HP–3 ②
SERVICE		120° HWR WATER LOOP ENTIRE BUILDING	EMERG. SHOWER HWR AUTO/DIESEL SHOP	LAB HWR SCIENCE LABS	EMERG. SHOWER HWR SCIENCE LABS	DOMESTIC WATER BOILER
MANUFACTURER ①		GRUNDFOS	GRUNDFOS	GRUNDFOS	GRUNDFOS	GRUNDFOS
MODEL #		MAGNA3 40–120 F N	MAGNA3 32–60 F N	MAGNA3 32–100 F N	MAGNA3 32–100 F N	TP 40–240
PRODUCT #		98126806	98126822	98126826	98126826	100297119
TYPE		CANNED–ROTOR	CANNED–ROTOR	CANNED–ROTOR	CANNED–ROTOR	IN–LINE CENTRIFUGAL
FLUID DATA	FLUID	WATER	WATER	WATER	WATER	WATER
	TEMPERATURE (F)	120°F	70°F	110°F	70°F	140°F
	FLOW RATE (GPM)	23	2.5	6	9	112
	T.D.H. (FT)	25	8	20	20	32
	MAX. PRESS. (PSI)	–	–	–	–	–
PUMP DATA	TYPE	ECM	ECM	ECM	ECM	ODP
	SPEED (RPM)	–	–	–	–	3450
	AMP RATING	0.26A – 3.96A	0.29A – 1.01A	0.29A – 1.61A	0.29A – 1.61A	10.7
	MOTOR POWER (W)	16W – 448W	8.45W – 106W	9.7W – 178W	9.7W – 178W	1 HP
	VOLTAGE–PH–Hz	115 – 1 – 60	115 – 1 – 60	115 – 1 – 60	115 – 1 – 60	208 – 3 – 60
STARTER DATA	TYPE	INTEGRAL V–F–D	INTEGRAL V–F–D	INTEGRAL V–F–D	INTEGRAL V–F–D	H–O–A
	NEMA SIZE	–	–	–	–	–
	CONTROL	TIMECLOCK	TIMECLOCK	TIMECLOCK	TIMECLOCK	AQUASTAT
	AUX. CONTACTS	–	–	–	–	–

– ALL PUMPS SHALL BE BRONZE FOR DOMESTIC HOT WATER USE.

① GRUNDFOS, TACO, ARMSTRONG, BELL AND GOSSETT, OR APPROVED EQUAL

② THE BOILER PUMPS ARE SHIPPED WITH THE BOILERS FOR INSTALLATION.

SHEET REF. NO. P4.10

DRAWING NUMBER: ADD-7 / P-004

DRAWING NAME: Plumbing Schedules

DATE: 2/20/19

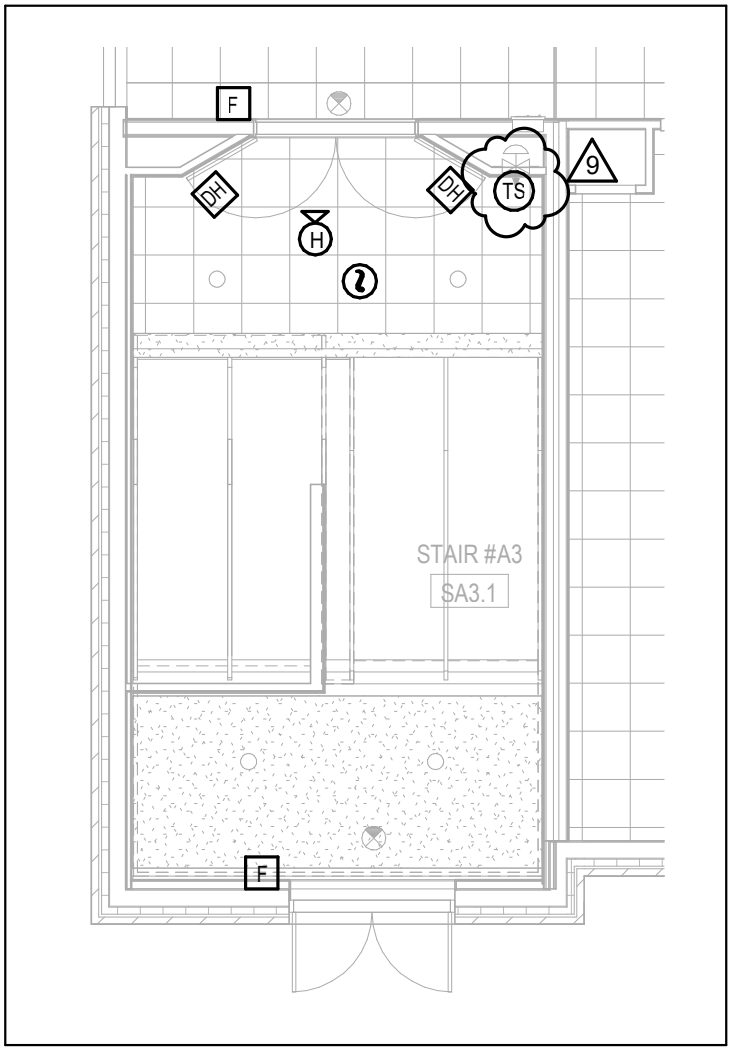
SCALE: NONE

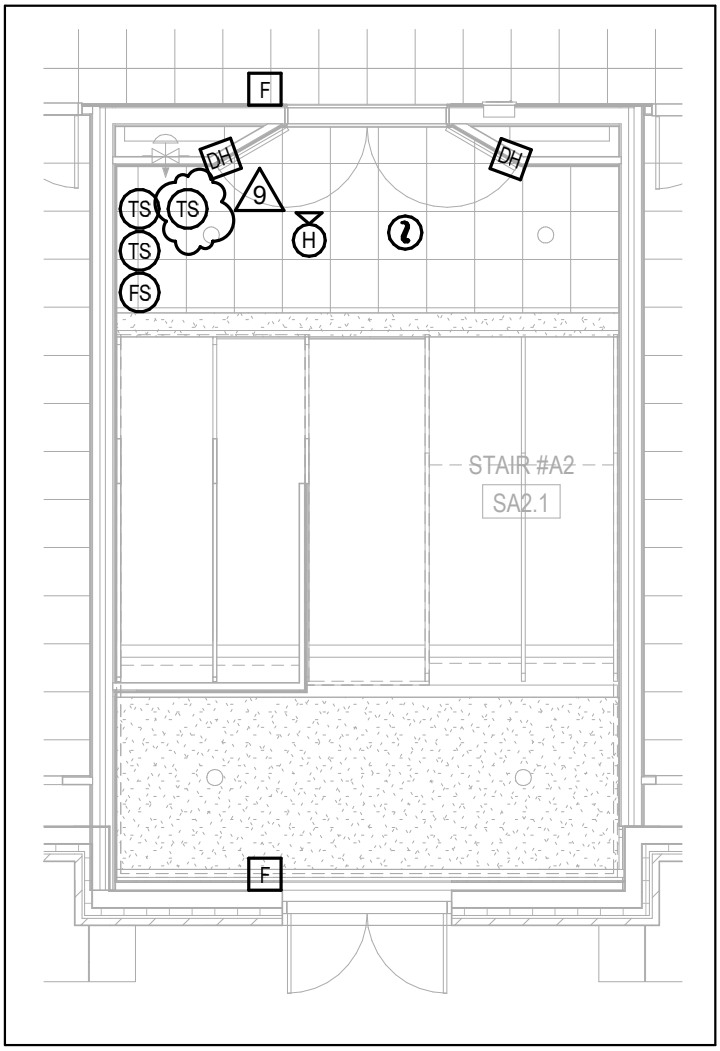
PROJECT TITLE: South High Community School
170 Apricot Street, Worcester, MA 01603

FINAL BID PACKAGE

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

LAMOURIEUX PAGANO ASSOCIATES ARCHITECTS
100 GROVE STREET, SUI
WORCESTER, MASSACHUSET
TS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS





NOTE:

1. ADD TAMPER SWITCHES.

9

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Fire Alarm - Tamper Switch

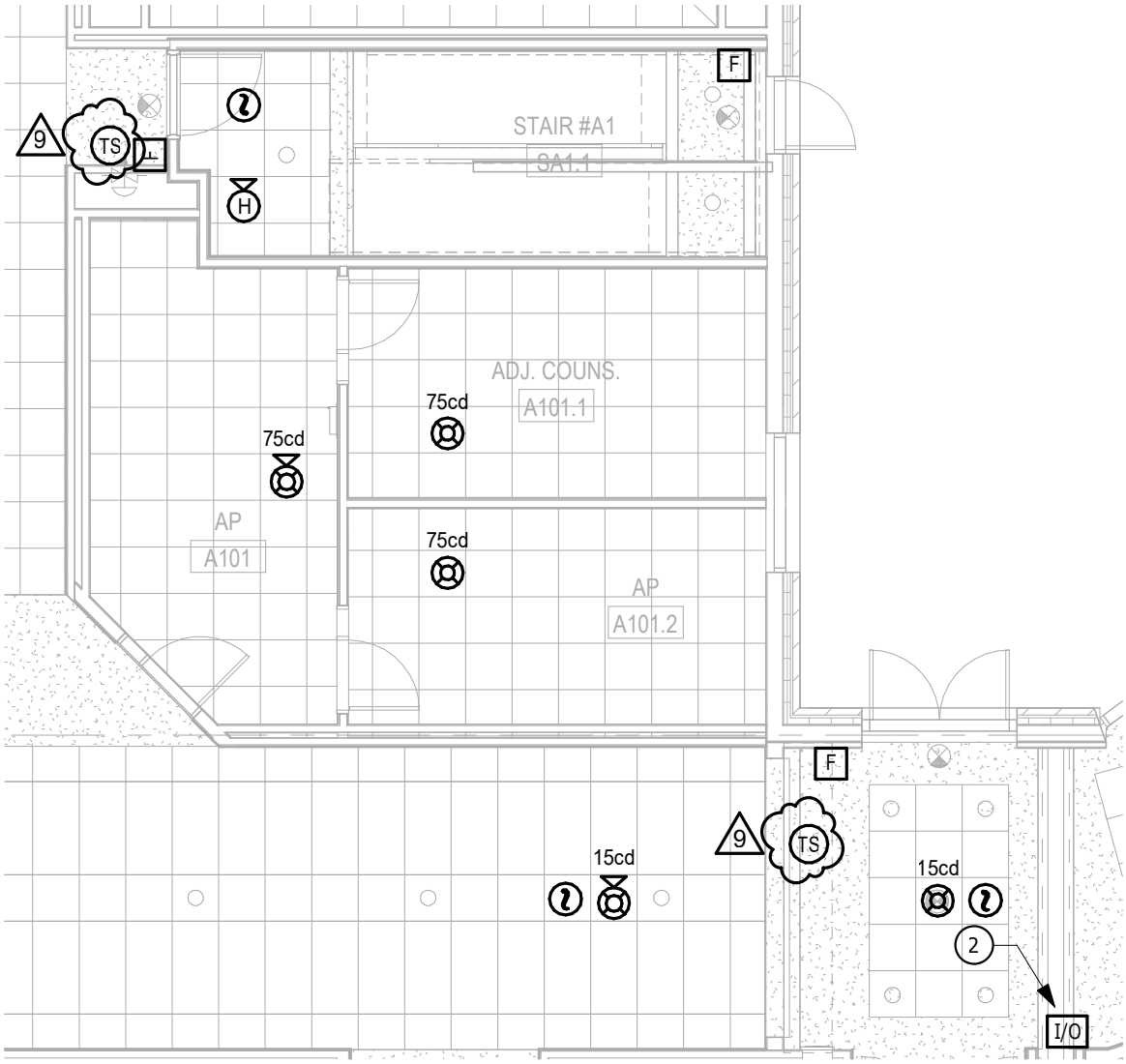
SHEET REF. NO.
E4.3

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-001



NOTE:

1. ADD TAMPER SWITCHES.

9

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Fire Alarm - Tamper Switch

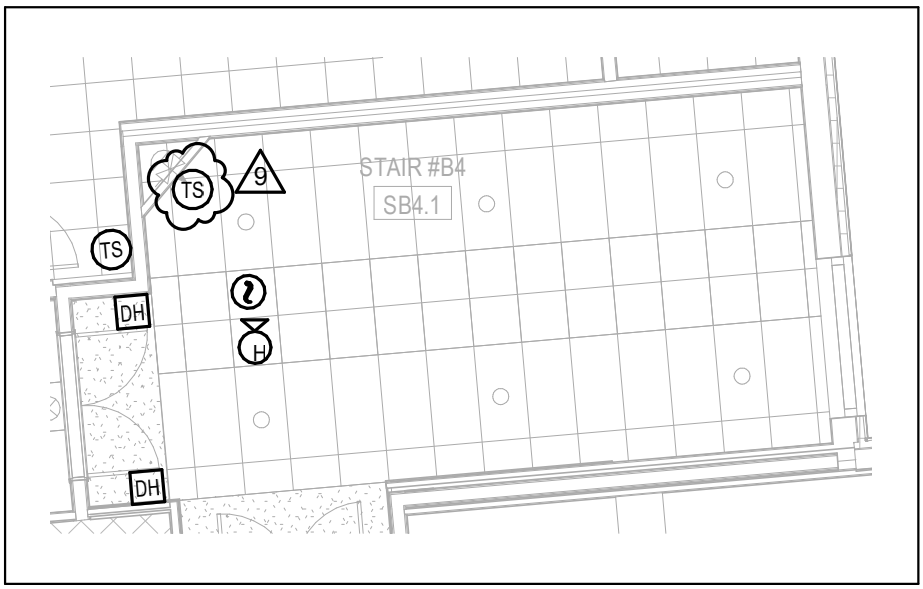
SHEET REF. NO.
E4.4

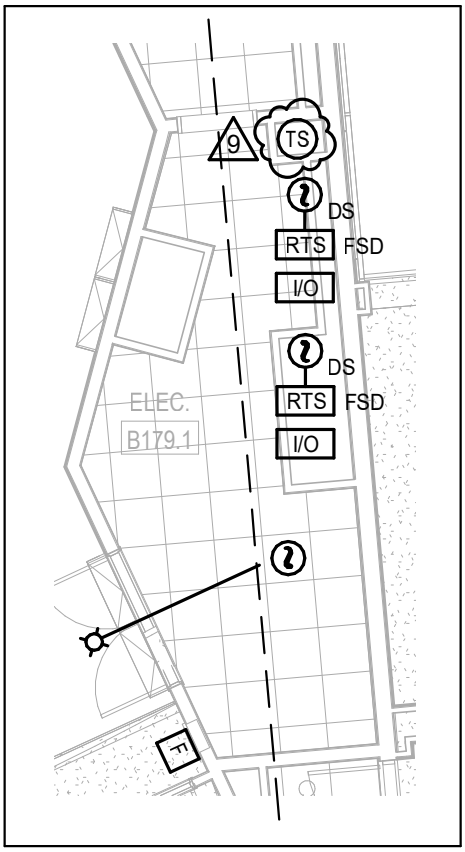
DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-002





NOTE:

1. ADD TAMPER SWITCHES.

9

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Fire Alarm - Tamper Switch

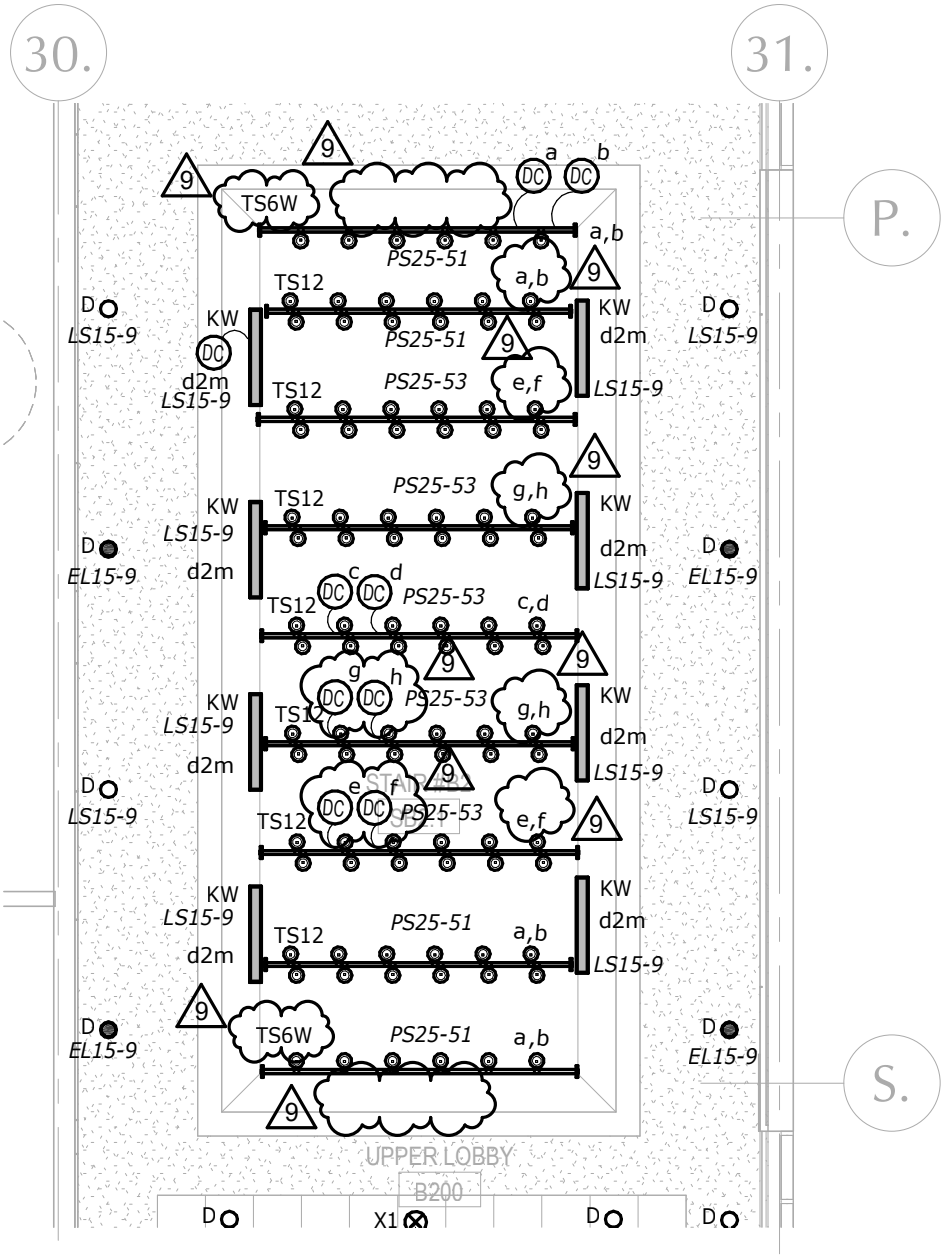
SHEET REF. NO.
E4.6

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-003



NOTE:

1. DELETE (2) TYPE KW LIGHT FIXTURES.
2. ADD (2) DC.
3. RENAME LIGHT FIXTURE TYPE TS13W TO TS6W. 9

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WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

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:
Lighting - Second Floor - Upper Lobby

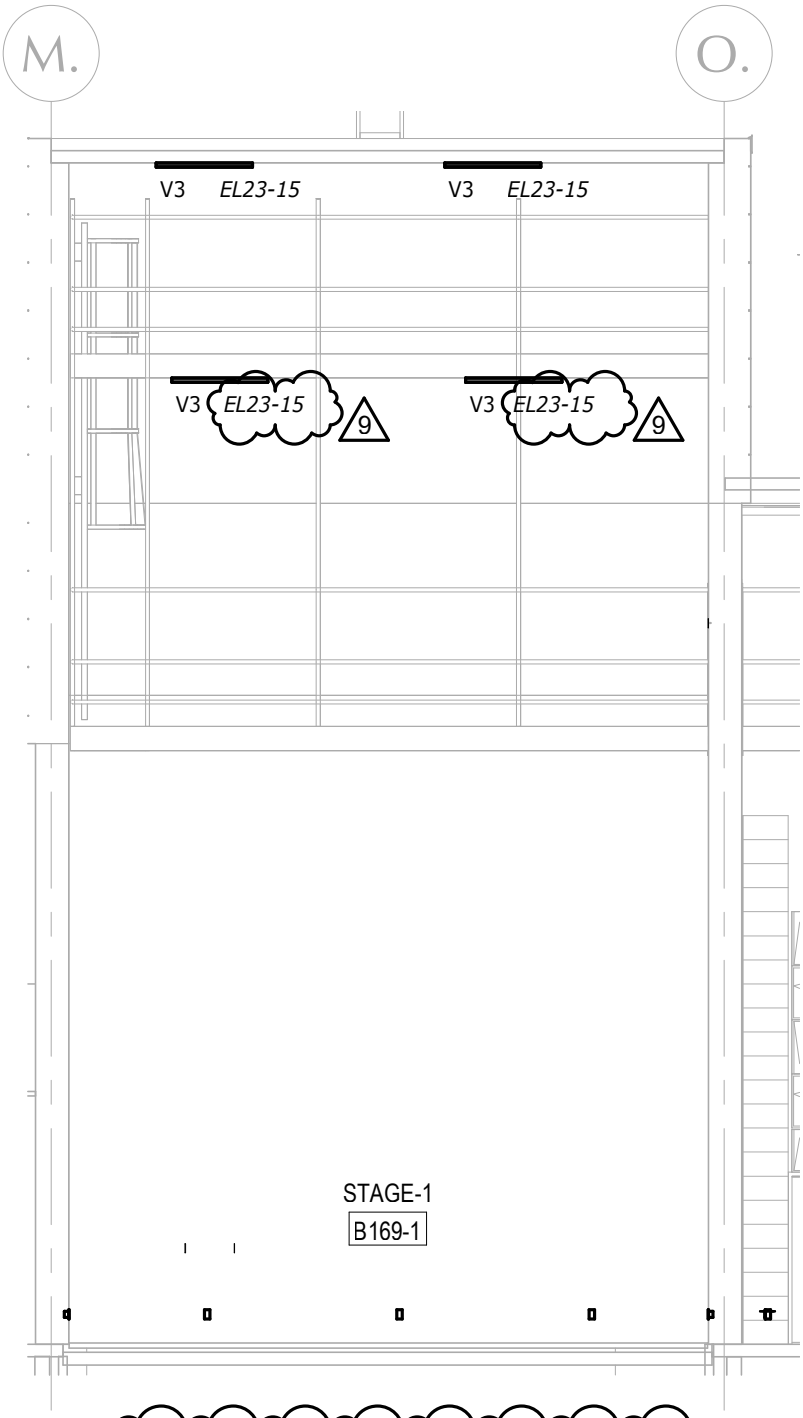
SHEET REF. NO.
E1.10

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-004



NOTE:

1. WIRE LIGHT FIXTURES TO CIRCUIT EL23-15.

9

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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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Lighting - Catwalk 3 Detail - 9/E1.14

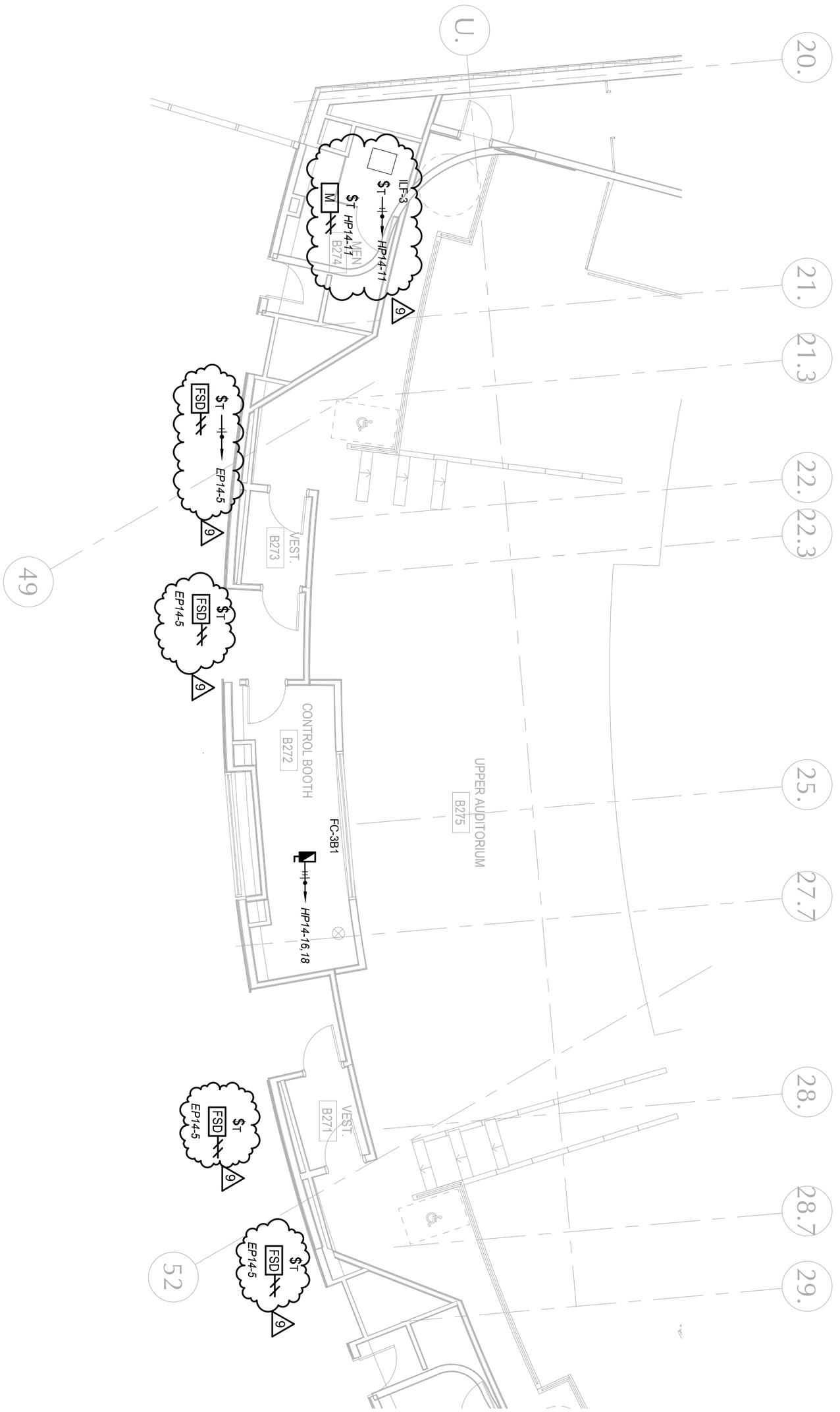
SHEET REF. NO.
E1.14

DATE:
02/20/19

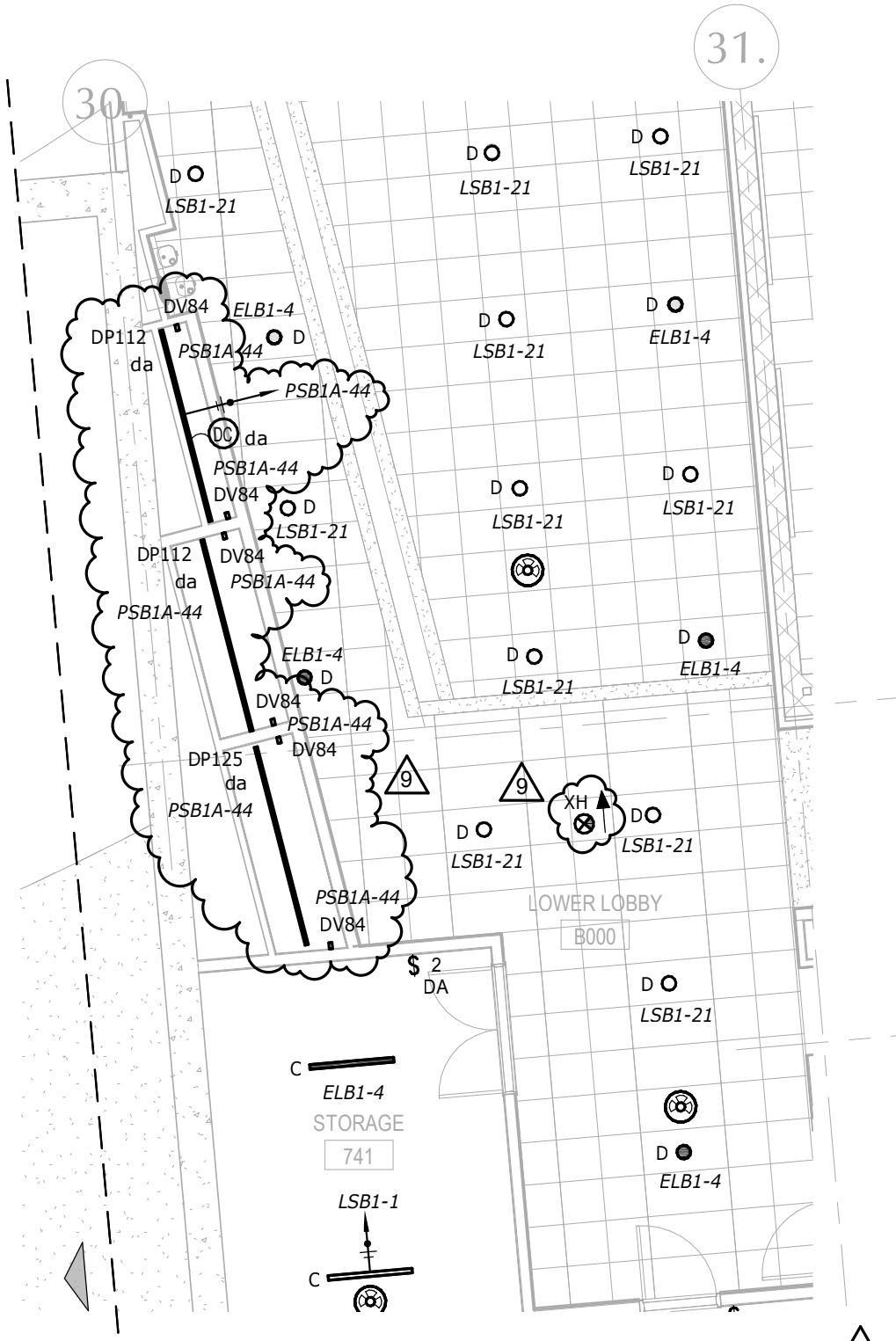
SCALE:
1/8" = 1'-0"

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-005



LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: HVAC Power - Second Floor Plan Section B1 DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E5.9 DRAWING NUMBER: ADD-7 E-006



NOTES:
1. REVISE VOLTAGE FOR LIGHT FIXTURE TYPE DP112 AND DP125 TO 120V.
2. ADD VERTICALLY MOUNTED (AT JAMBS) LIGHT FIXTURES TYPE DV84.
3.ADD EXIT SIGN,

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108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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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:
Lighting - Ground Floor Plan
Section B2

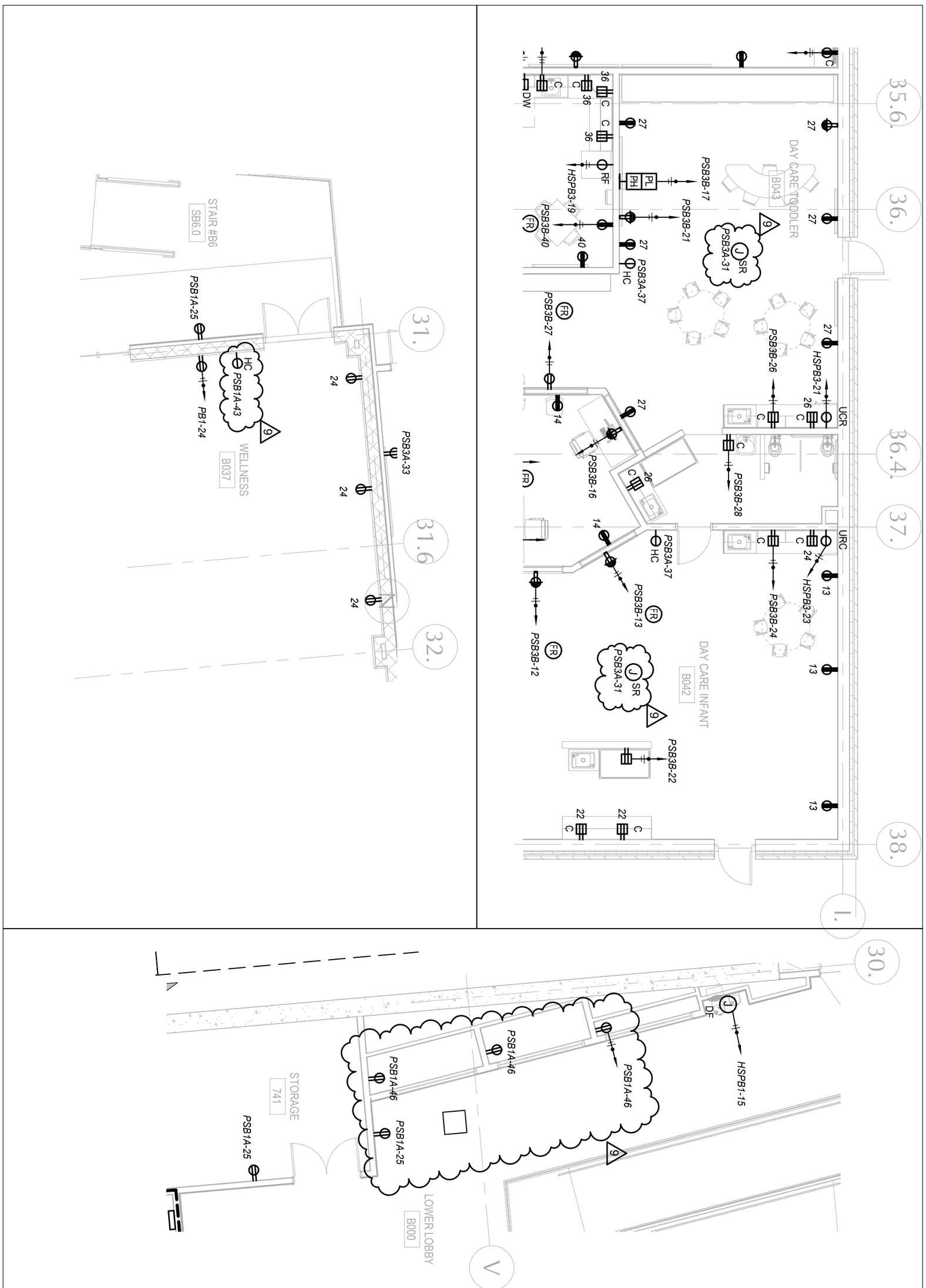
SHEET REF. NO.
E1.2

DATE:
02/20/19

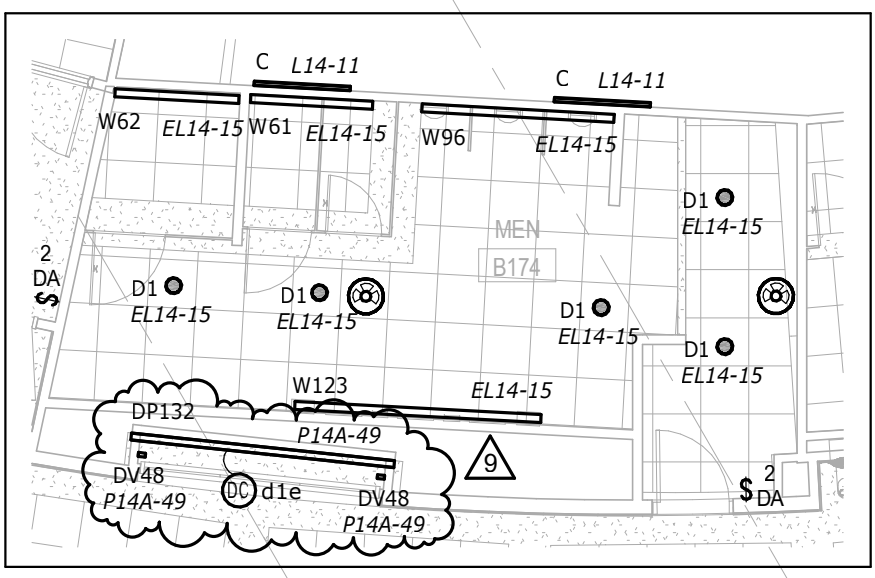
SCALE:
1/8" = 1'-0"

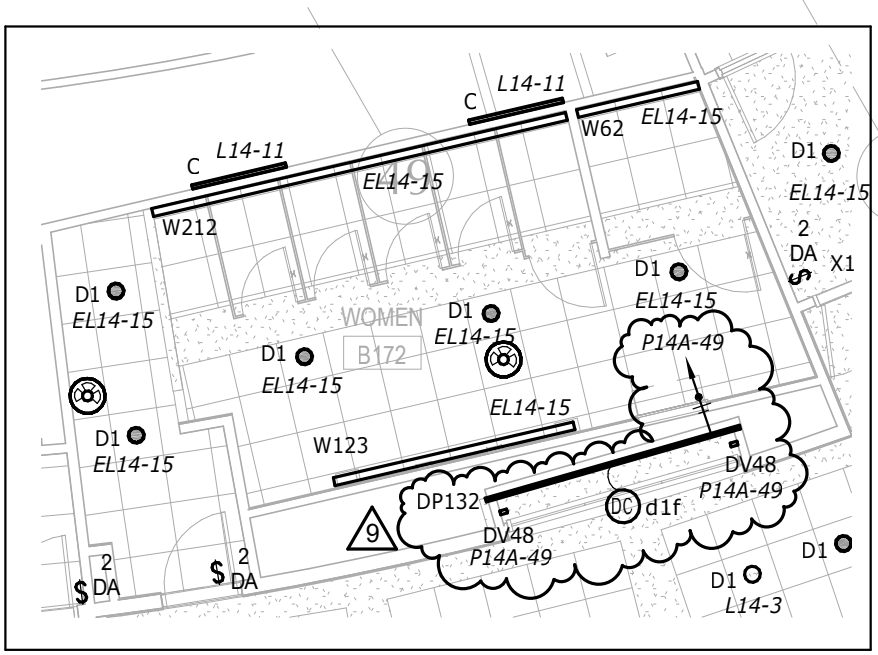
REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-007



LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Power -Ground Floor Plan Section B2 DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.2 DRAWING NUMBER: ADD-7 E-008





9

NOTES:
1. ADD LIGHT FIXTURES TYPE D132.
2. ADD VERTICALLY MOUNTED (AT JAMBS) LIGHT FIXTURES TYPE DV48.

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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:
FINAL BID PACKAGE

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

DRAWING NAME:
Lighting - First Floor Plan
Section B1

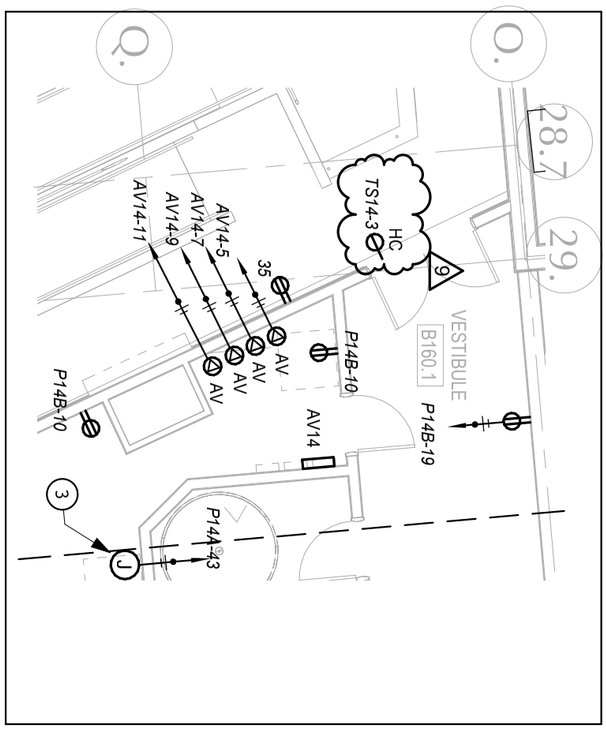
SHEET REF. NO.
E1.5

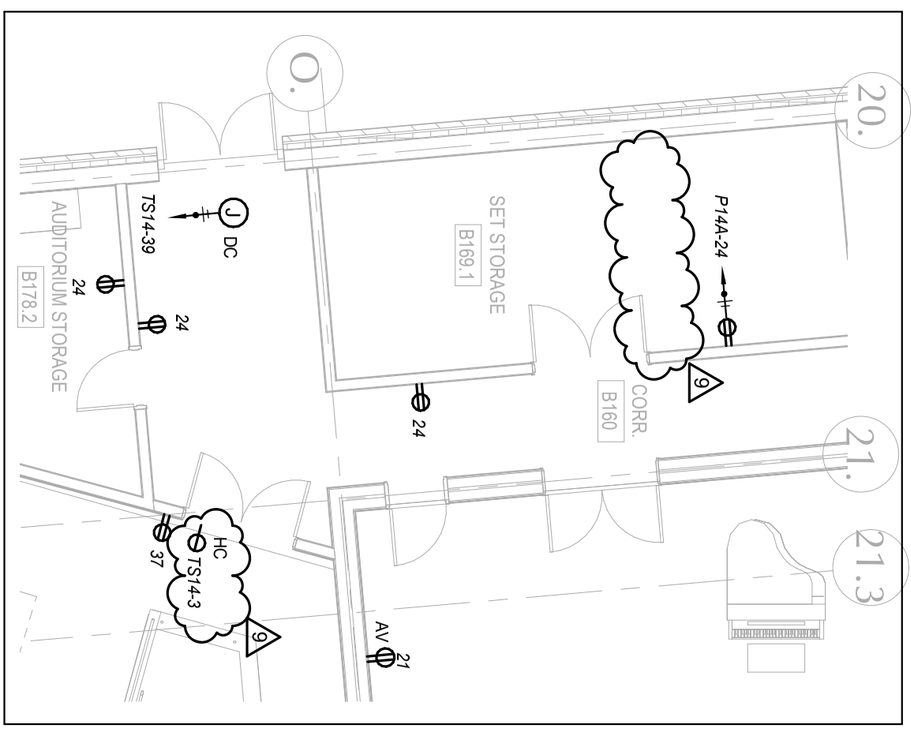
DATE:
02/20/19

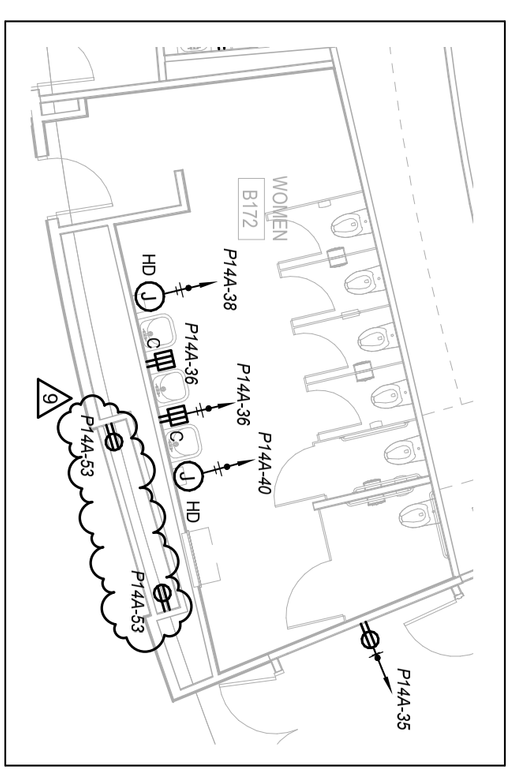
SCALE:
1/8" = 1'-0"

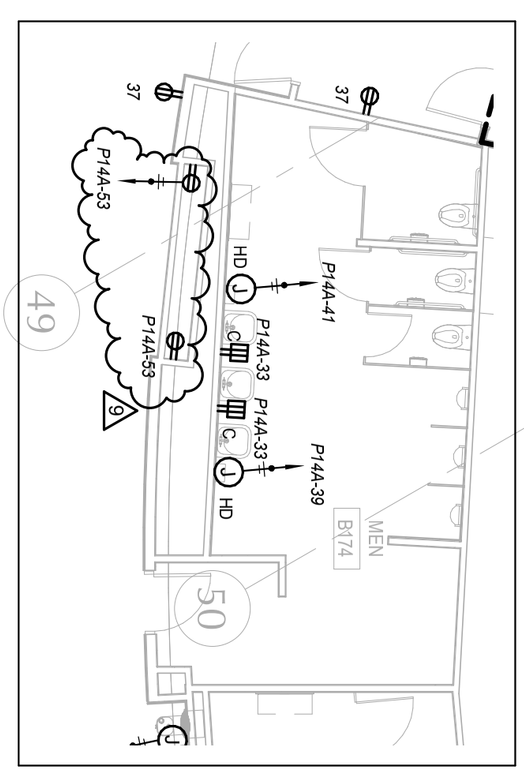
REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-009









LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Power -First Floor Plan Section B1 DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.5 DRAWING NUMBER: ADD-7 E-010

NOTES:
1. ADD LIGHT FIXTURES DP210, DP420 AND DP.
2. ADD VERTICALLY MOUNTED (AT JAMBS) LIGHT FIXTURES TYPE DV114.
3.ADD EXIT SIGN AND LIGHT FIXTURE TYPE D.

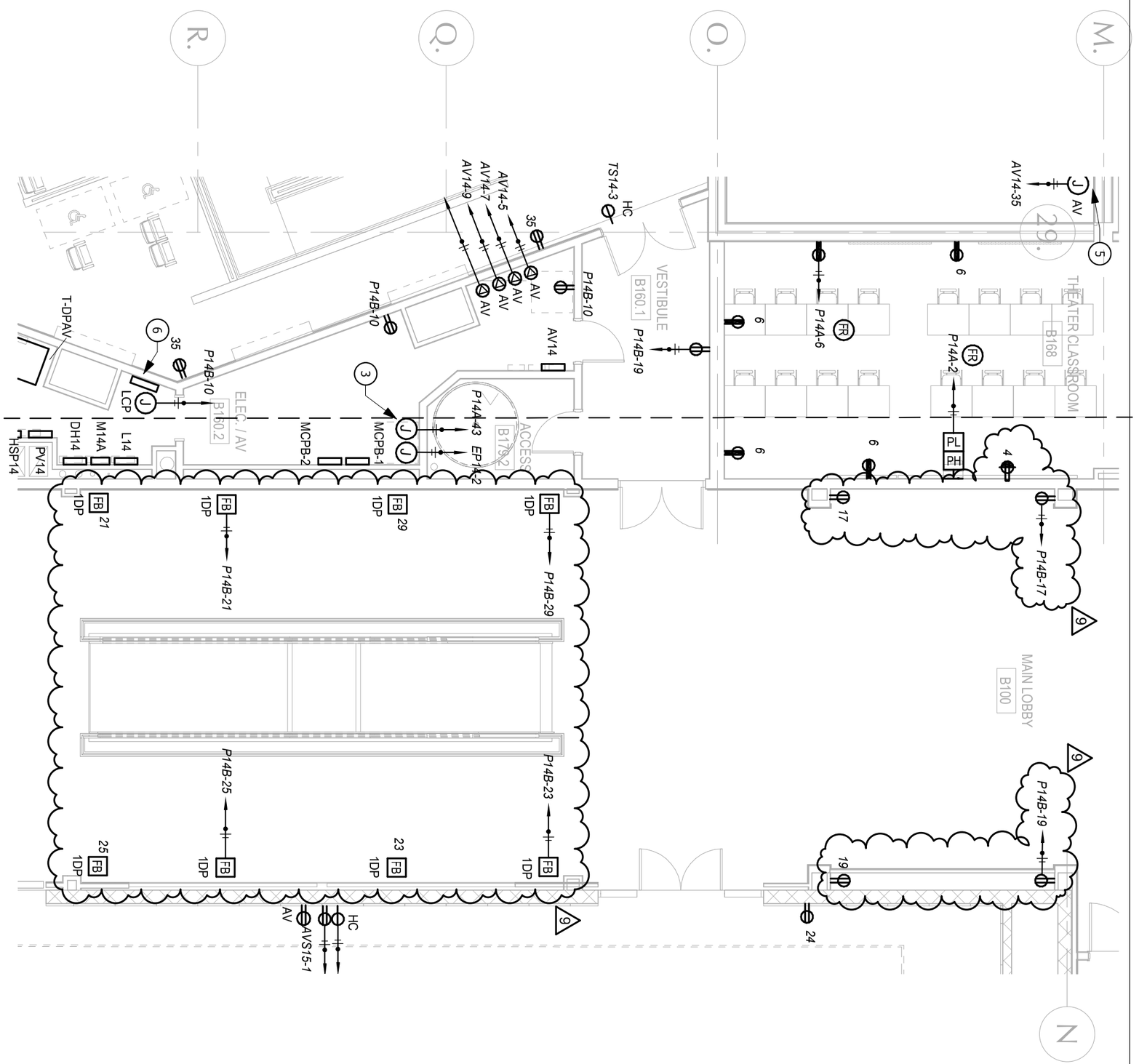
DRAWING NAME: Lighting - First Floor Plan Section B2
SHEET REF. NO. E1.6
DRAWING NUMBER: ADD-7 E-011
DATE: 02/20/19
SCALE: 1/8" = 1'-0"
REFERENCE: Addendum #7

PROJECT TITLE:
FINAL BID PACKAGE

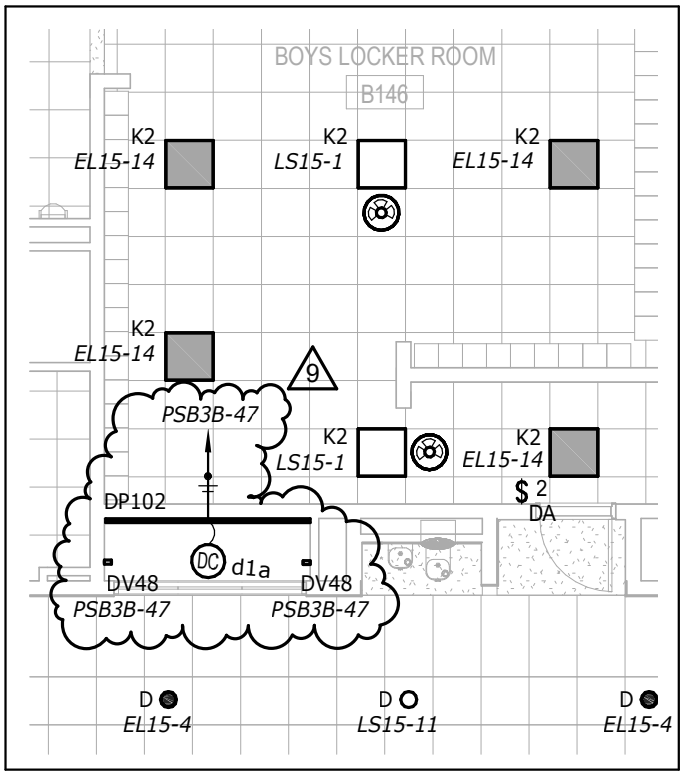
South High Community School
170 Apricot Street, Worcester, MA 01603

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

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



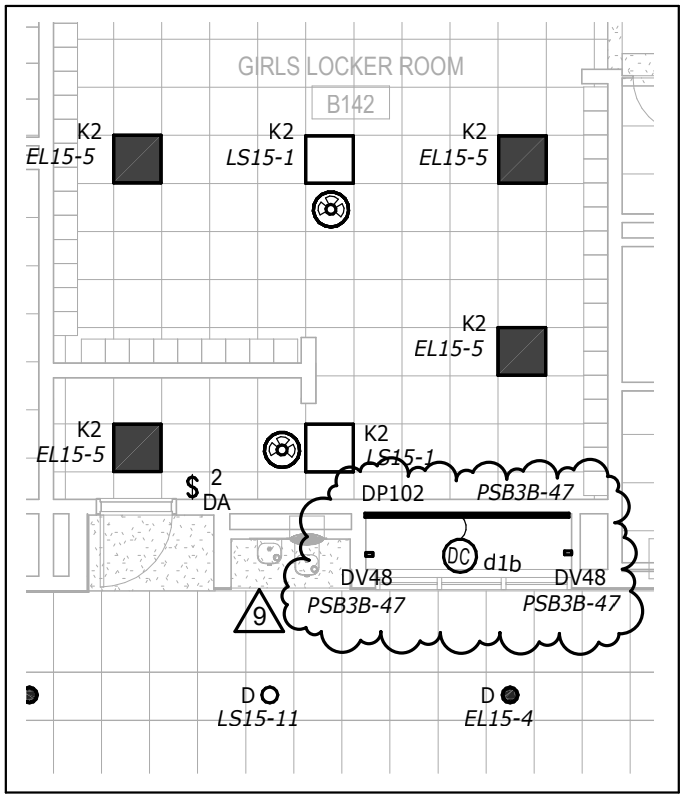
LAMOUREUX PAGANO ASSOCIATES ARCHITECTS 168 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Power -First Floor Plan Section B2 DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.6 DRAWING NUMBER: ADD-7 E-012



NOTES:
1. ADD LIGHT FIXTURE TYPE DP102.

2. ADD VERTICALLY MOUNTED LIGHT FIXTURES TYPE DV48.

9



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Lighting - First Floor Plan
Section B2

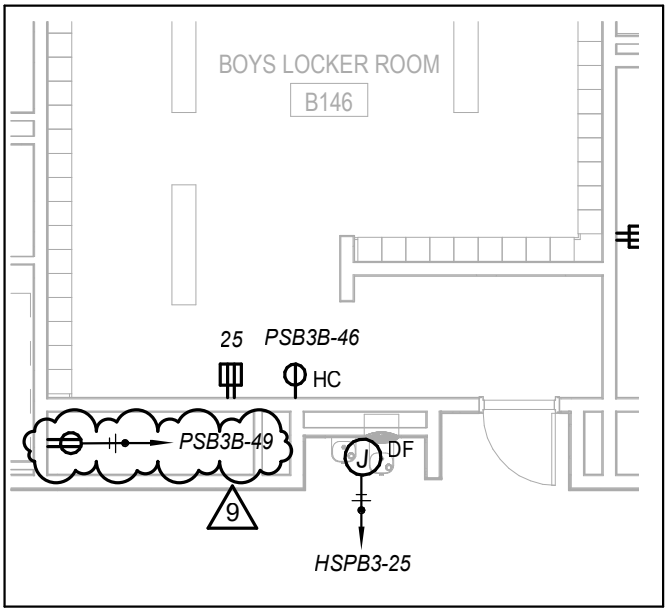
SHEET REF. NO.
E1.6

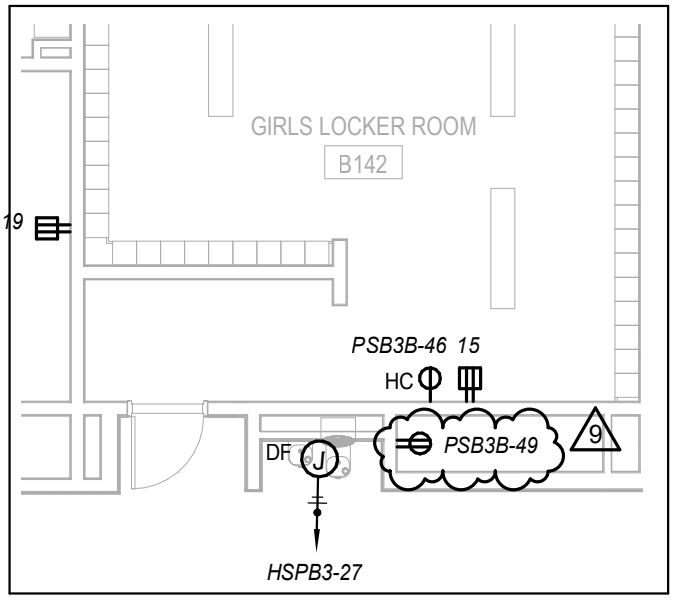
DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-013





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WORCESTER, MASSACHUSETTS 01605
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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:
Power -First Floor Plan Section B2

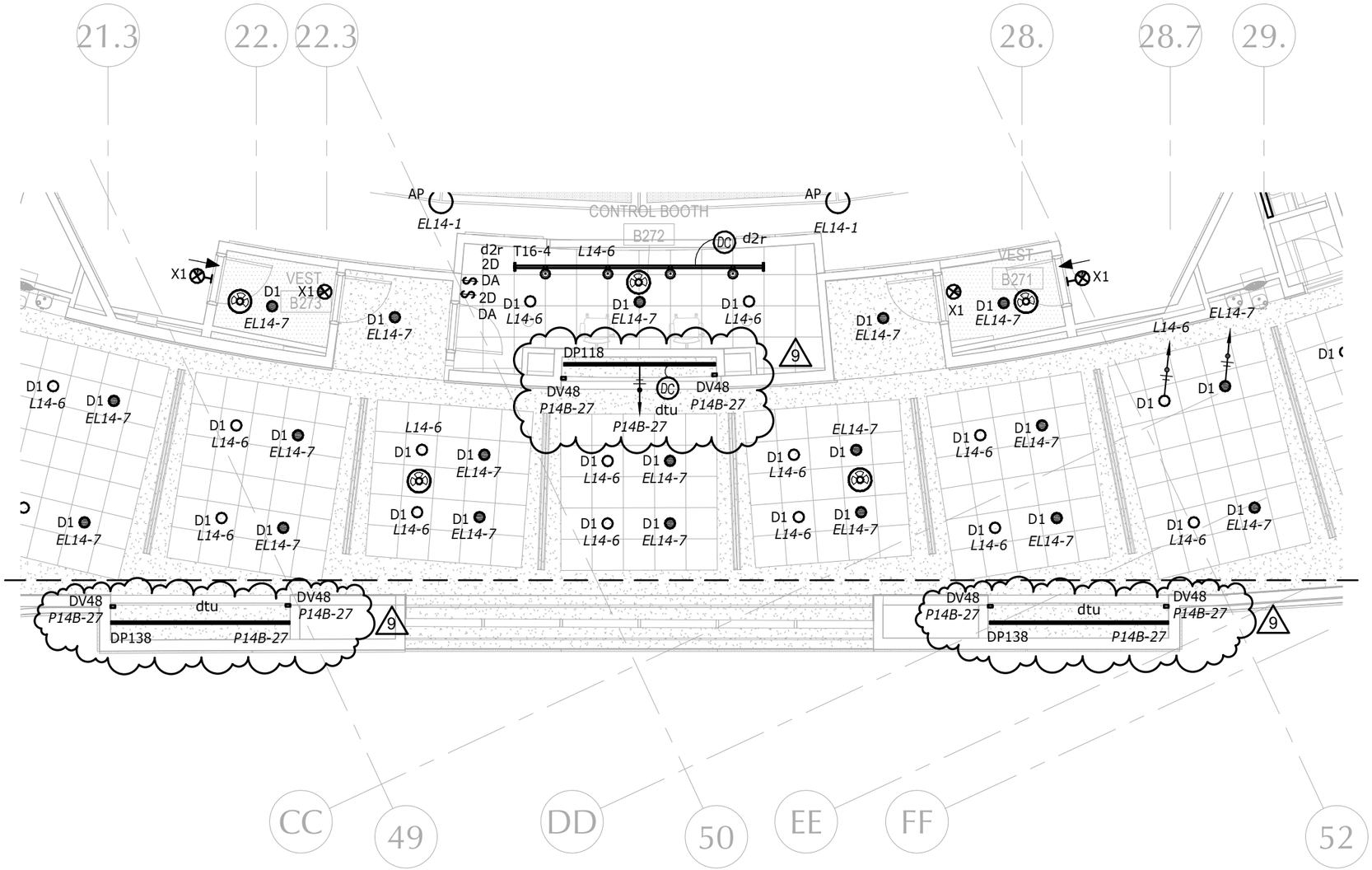
SHEET REF. NO.
E2.6

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-014



NOTES:
1. REVISE VOLTAGE FOR LIGHT FIXTURE TYPE DP118 AND DP138 TO 120V.
2. ADD VERTICALLY MOUNTED LIGHT FIXTURES TYPE DV48.

DRAWING NAME: Lighting - Second Floor Plan Section B1
SHEET REF. NO. E1.9
DRAWING NUMBER: ADD-7 / E-015
DATE: 02/20/19
SCALE: 1/8" = 1'-0"
REFERENCE: Addendum #7

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

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100 GROVE STREET, SUITE 305
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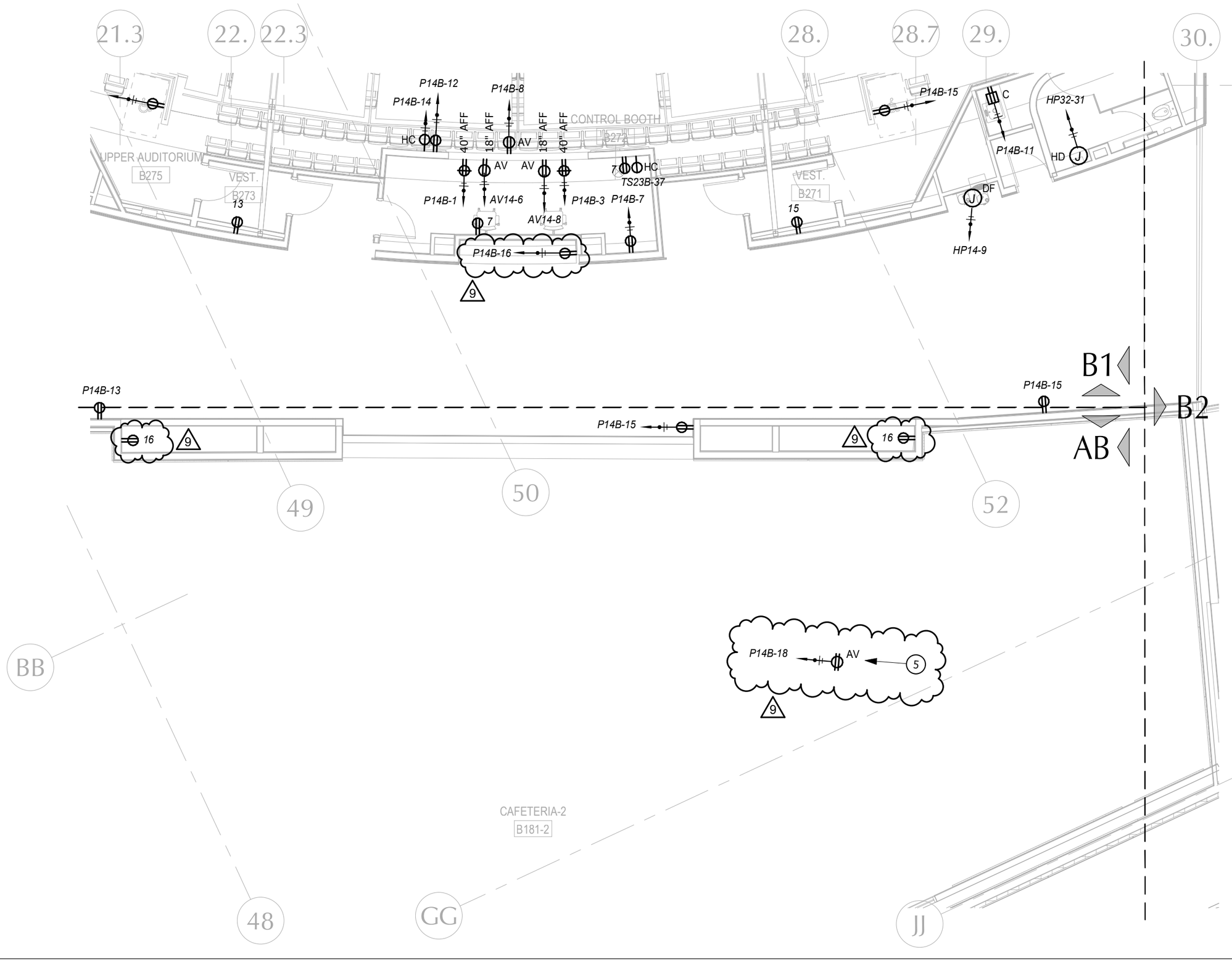

DRAWING NAME:	Power -Second Floor Plan Section B1
DATE:	02/20/19
SCALE:	1/8" = 1'-0"
REFERENCE:	Addendum #7
SHEET REF. NO.	E2.8/E2.9
DRAWING NUMBER:	ADD-7 / E-016

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

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100 GROVE STREET, SUITE 300
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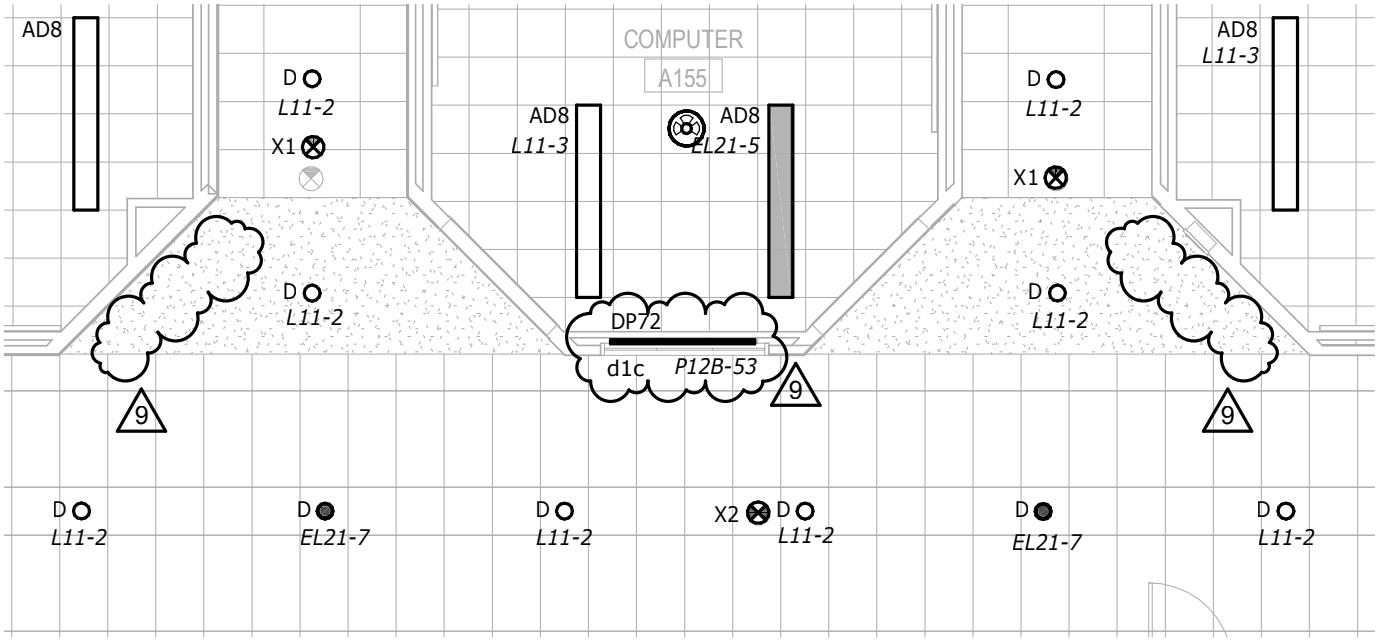

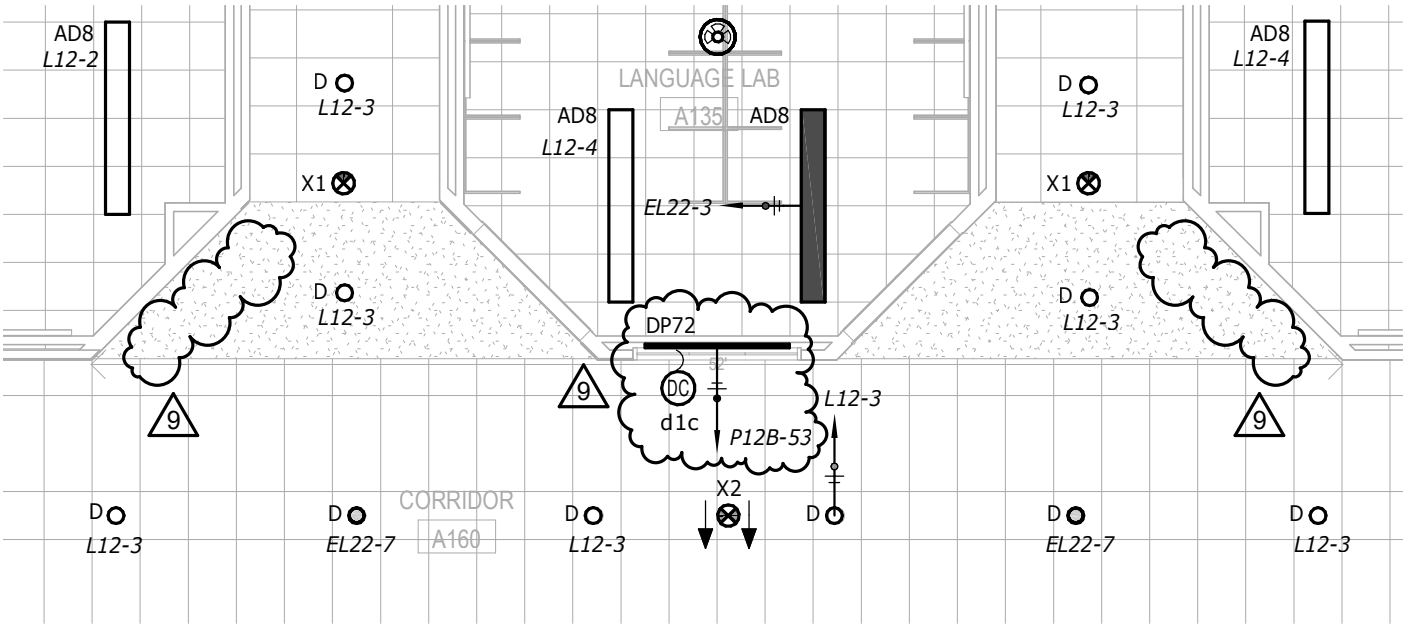

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108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

PROJECT TITLE:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Lighting - First Floor Plan
Section A

SHEET REF. NO.
E1.3

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-017

DRAWING NAME: Lighting - First Floor Plan Section AB

SHEET REF. NO. E1.4

DRAWING NUMBER: ADD-7 / E-018

DATE: 02/20/19

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

REFERENCE: Addendum #7

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

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188 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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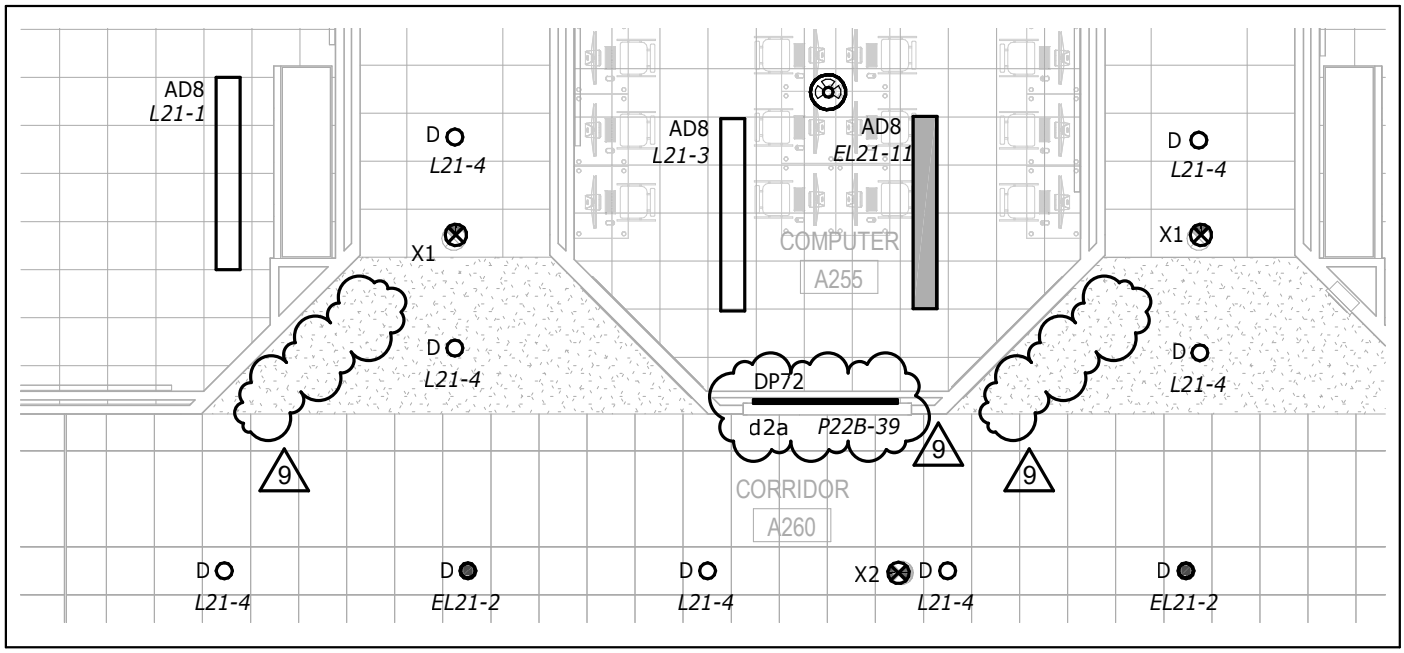

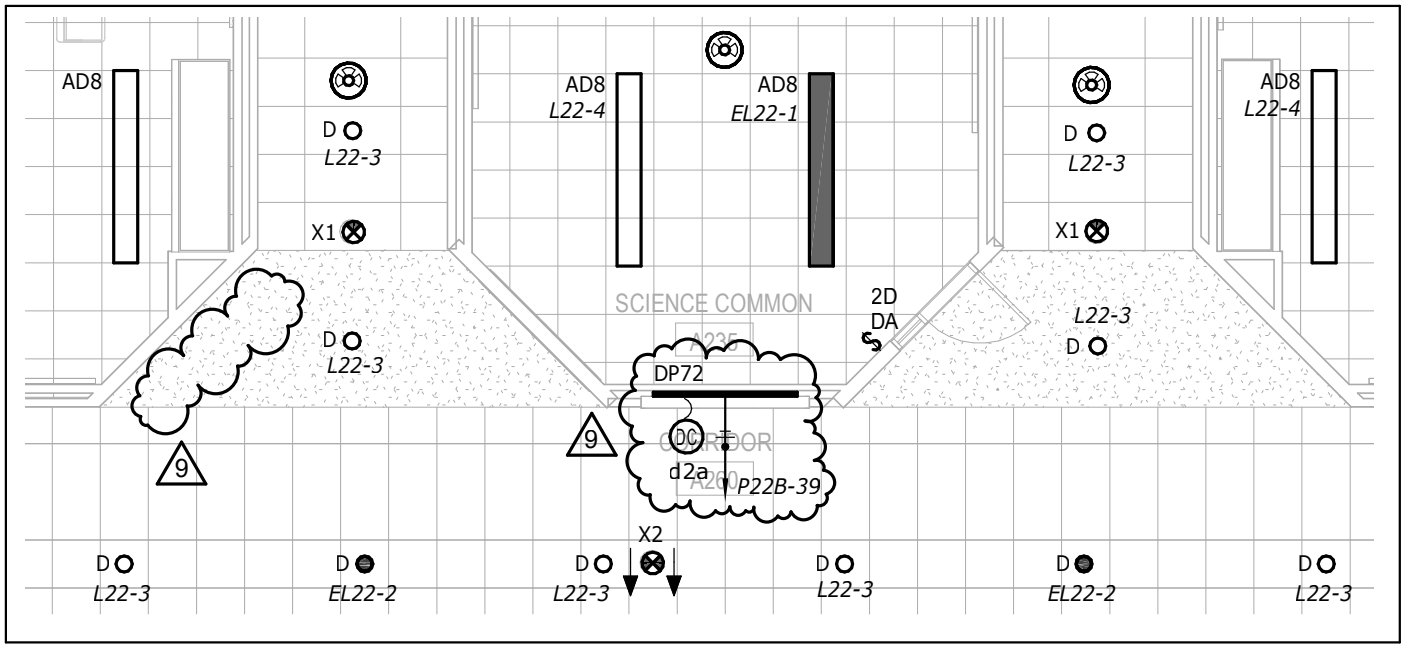

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108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

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

PROJECT TITLE:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Lighting - Second Floor Plan
Section A

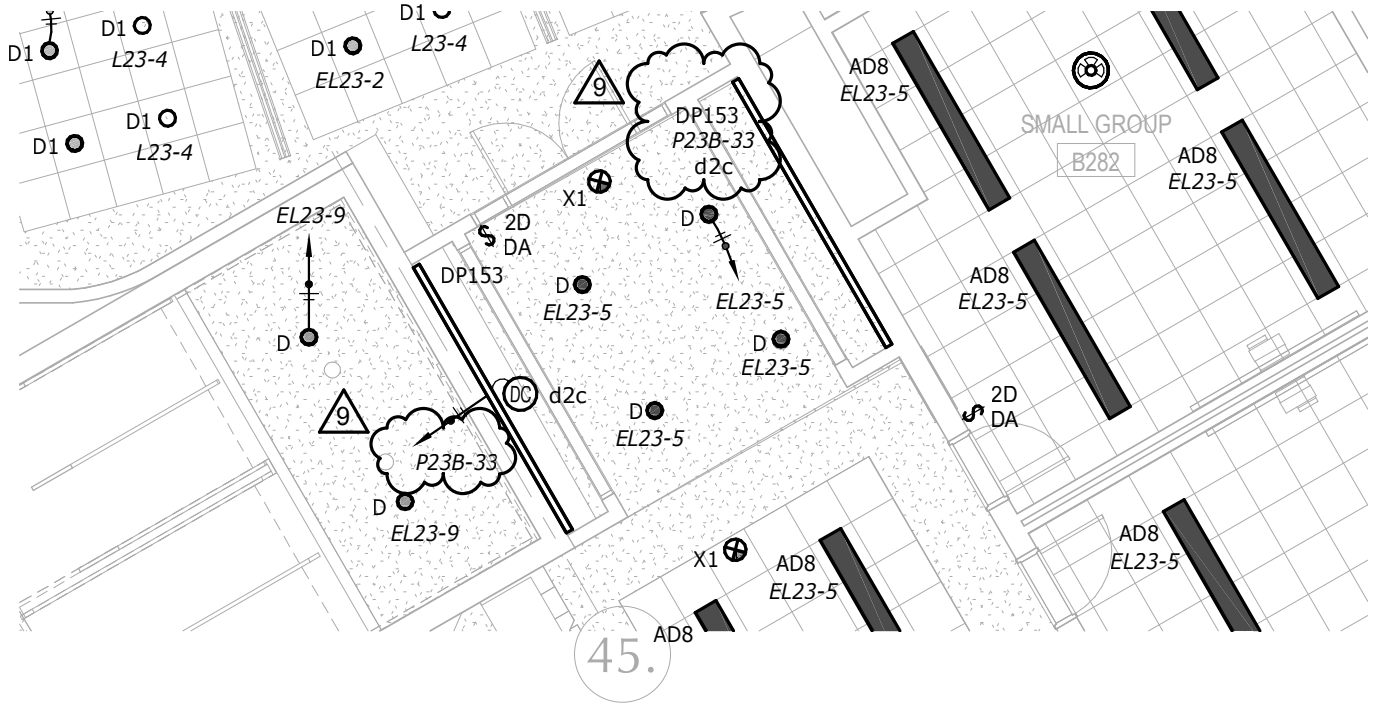
SHEET REF. NO.
E1.7

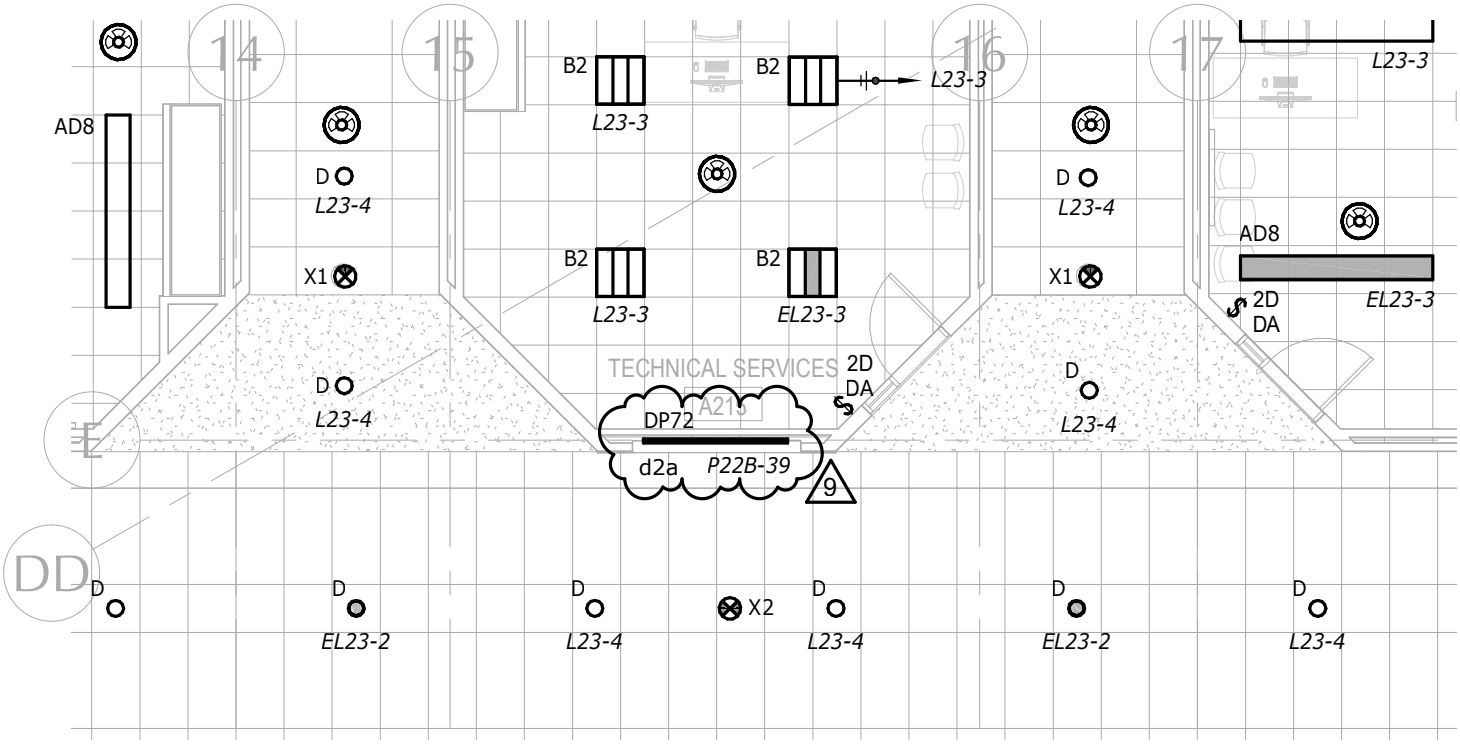
DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-019





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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:
Lighting - Second Floor Plan
Section AB

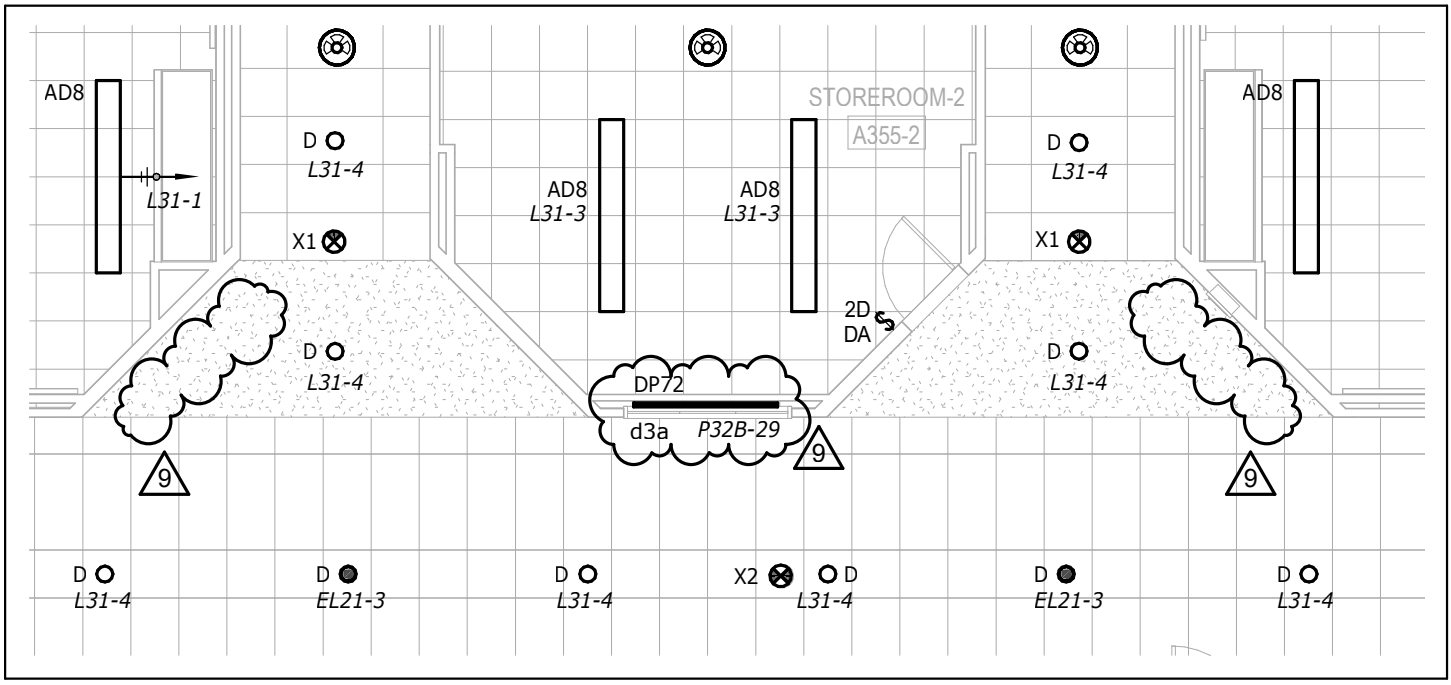
SHEET REF. NO.
E1.8

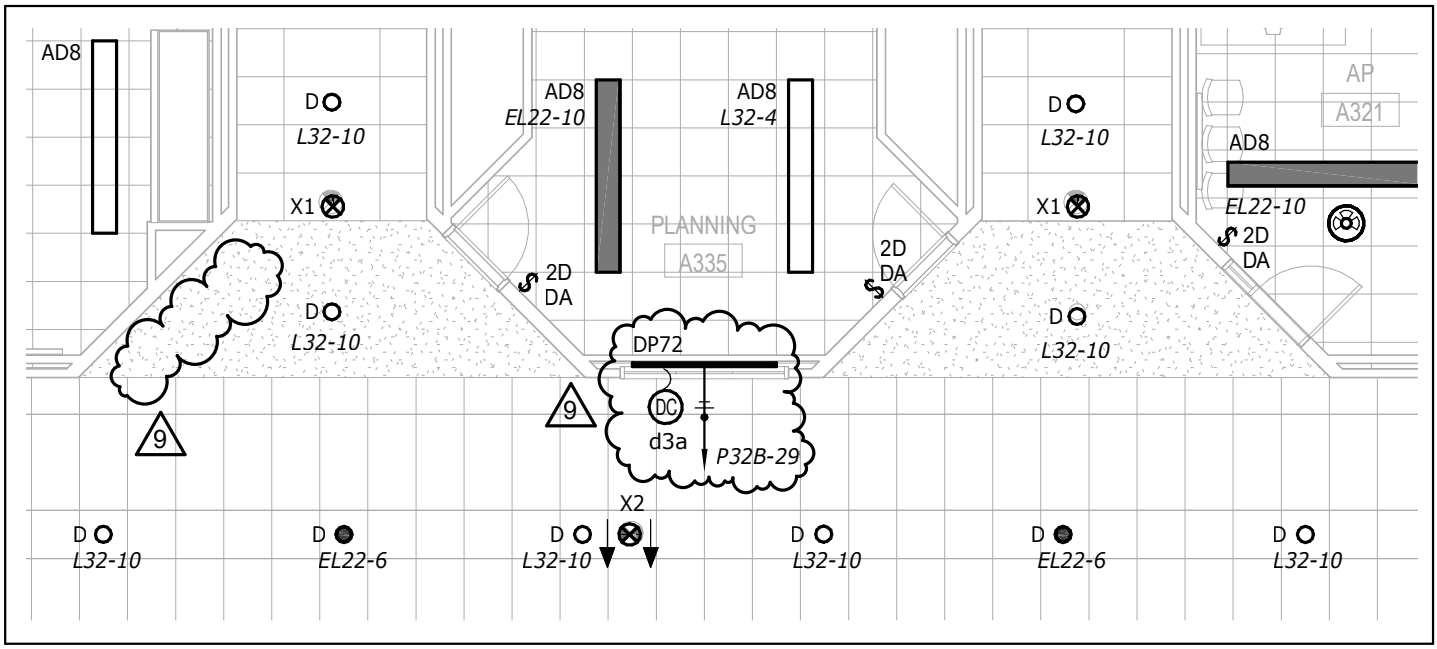
DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-020





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WORCESTER, MASSACHUSETTS 01605
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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:
Lighting - Third Floor Plan
Section A

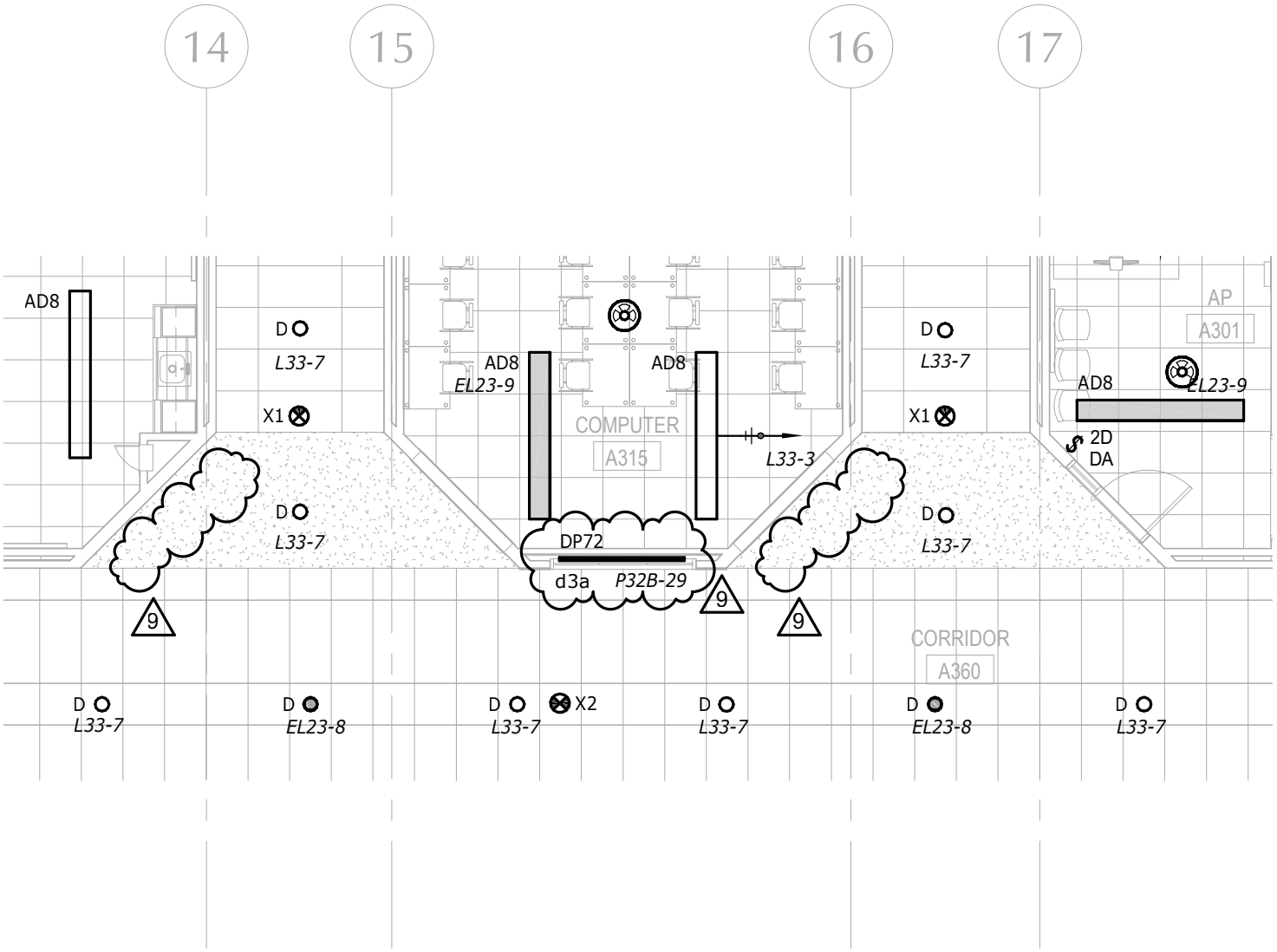
SHEET REF. NO.
E1.11

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-021



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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:
Lighting - Third Floor Plan
Section AB

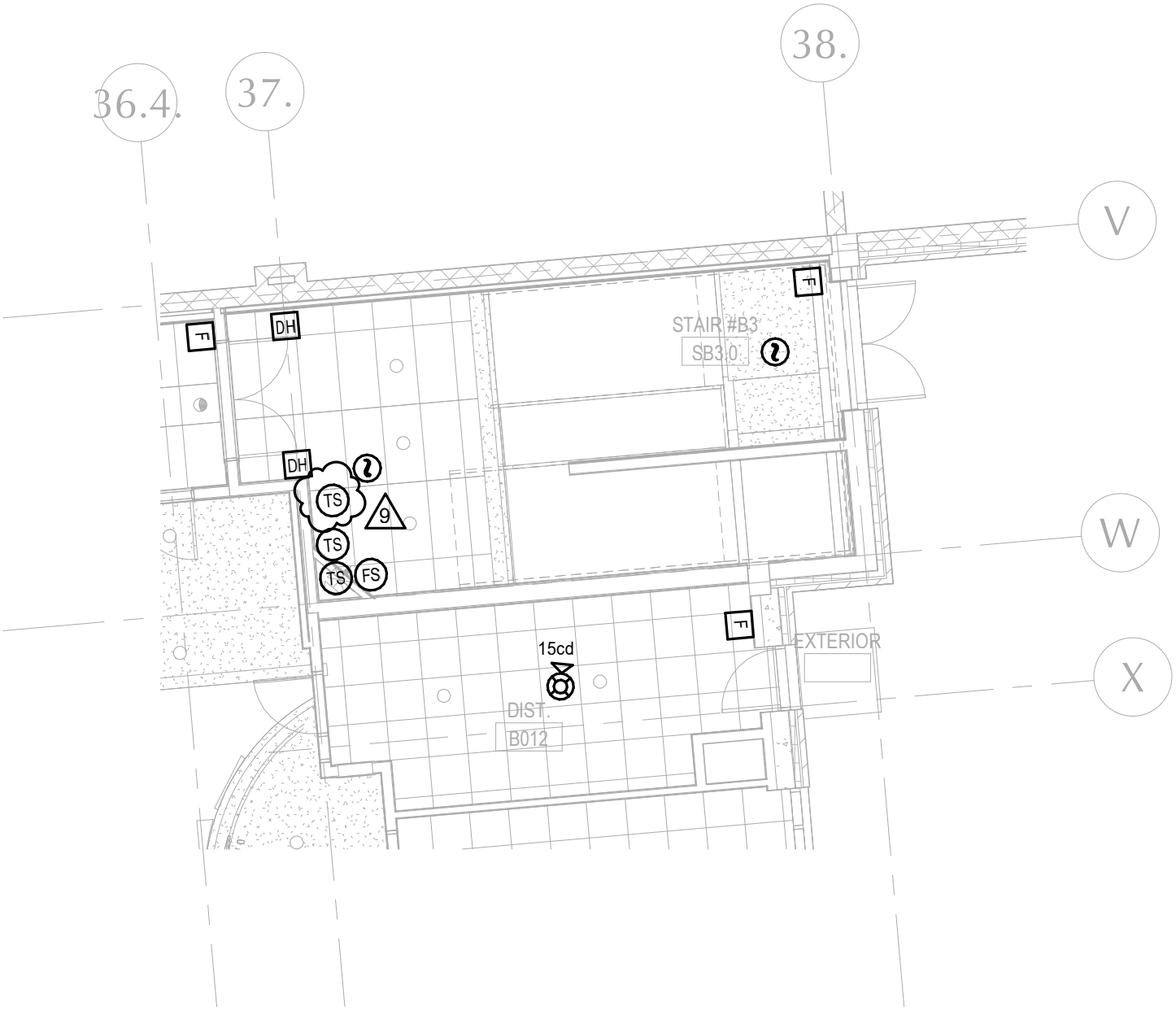
SHEET REF. NO.
E1.12

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-022



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108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

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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:
Fire Alarm - Tamper Switch

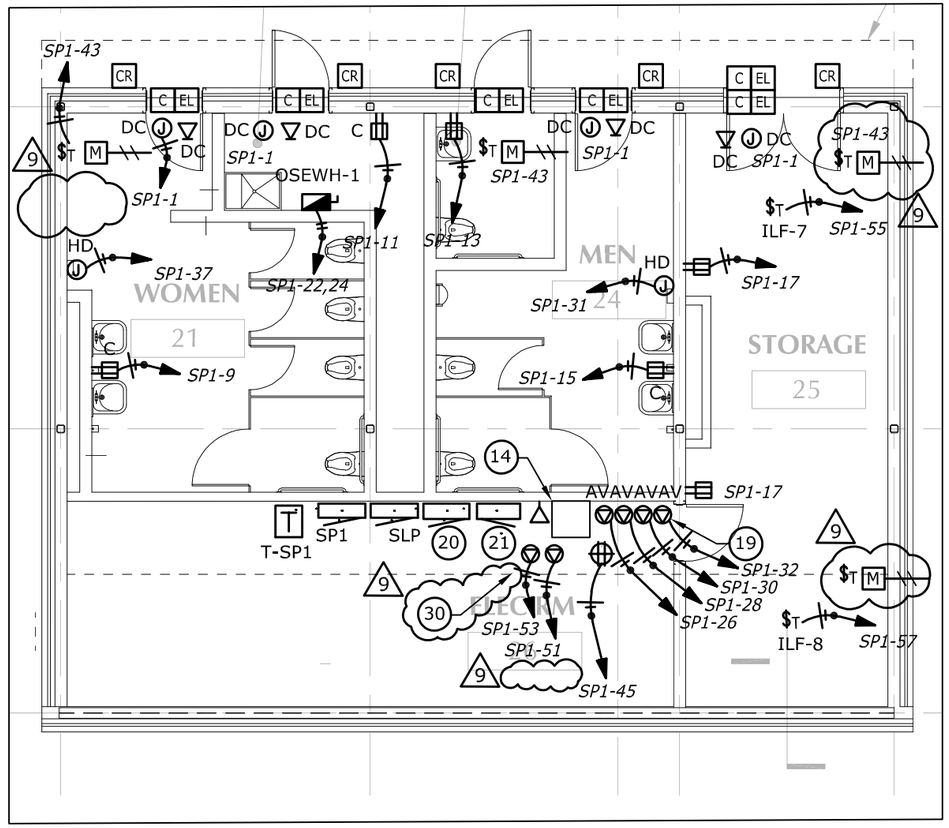
SHEET REF. NO.
E4.2

DATE:
02/20/19

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

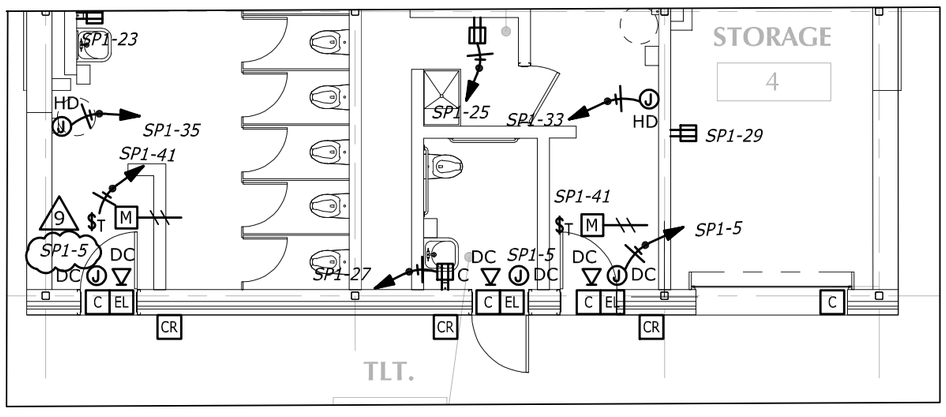
REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-023



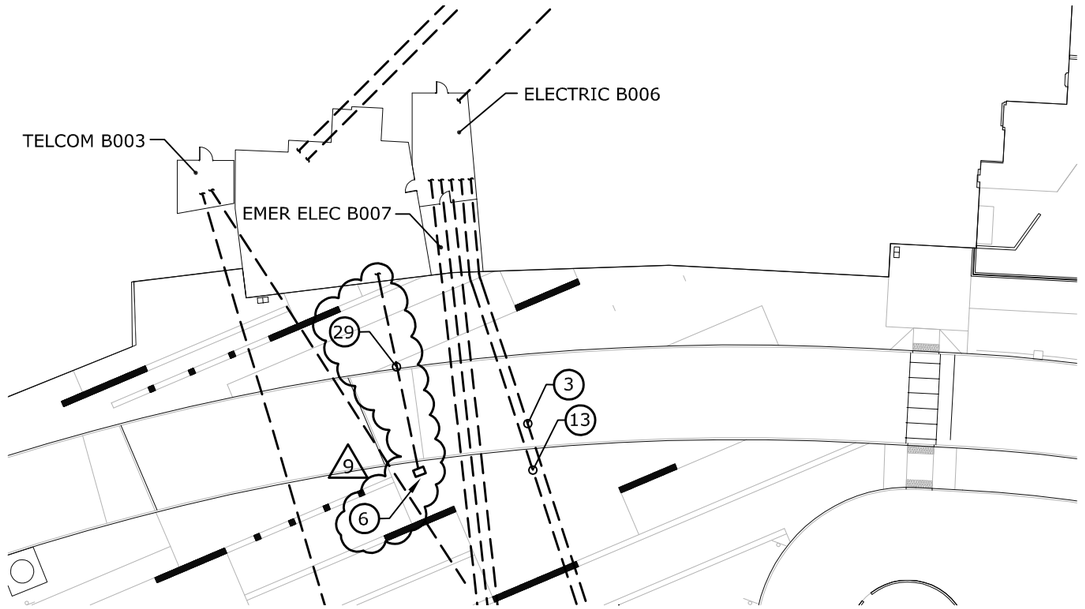
Toilet/Storage Building Road Level Plan

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



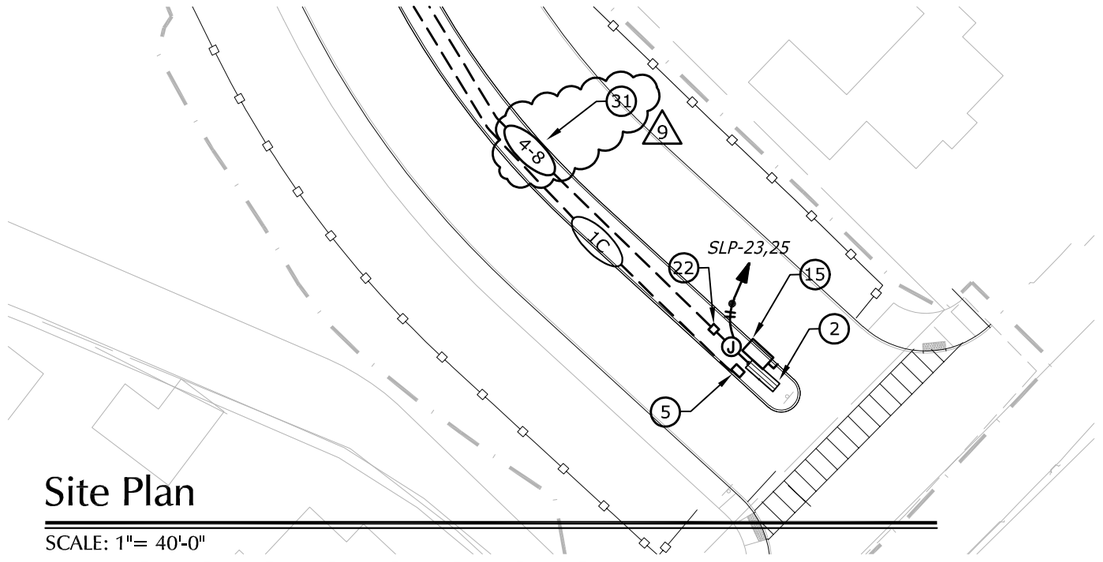
Toilet/Storage Building Field Level Plan

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



Site Plan

SCALE: 1"= 40'-0"



Site Plan

SCALE: 1"= 40'-0"

29 2" SCHEDULE 40 PVC CONDUIT FOR IRRIGATION CONTROL WIRING.

30 L5-30R RECEPTACLES. INSTALL 2-10 AWG & 1-10 AWG GND IN CONDUIT. TYPICAL OF 2.

31 CONDUIT FOR POWER AND LIGHTING. SEE KEYED NOTE #10 ON DRAWING E0.3A.

9

SHEET REF. NO. E0.4B

DRAWING NAME: Electrical Site Power Plan

DRAWING NUMBER: ADD-7 / E-024

DATE: 2/20/19

SCALE: AS NOTED

REFERENCE Addendum #7

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

LAMOUREUX PACANO ASSOCIATES, ARCHITECTS
100 GROVE STREET, SUITE 3
WORCESTER, MASSACHUSETTS 01605
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TAG	DESCRIPTION	MANUF.	MODEL	VOLTAGE	LAMP	NOTES	TAG
CP1	PENDANTT FIXTURE	WAC	FM21720-DIM-COORDINATE PENDANT LENGTH WITH THE ARCHITECT	277 V	LED	Wired via DAC	CP1
CP2	Recessed Downlight	PORTFOLIO	DT-6-R-RED	120 V	LED	Wired via DAC	CP2
CT19	Bendable Track with 4 Heads	BRUCK	PROVIDE (4) TRACK HEADS WITH TRACK: 110-902-MC-IN-ZONMC (4")-PROVIDE (4) SCREW-IN LAMPS-LMP-G4030022K1-ZONYX TRACK-350-020-MC-099 (BEND TRACK IN THE FIELD)-110 (4" CEILING SUPPORT)-PROVIDE WITH ALL PARTS AND ACCESSORIES FOR A FULL AND COMPLETE INSTALLATION-APPROX TRACK LENGTH 19FT. COORDINATE EXACT LENGTH WITH THE ARCHITECT	120 V	LED	Wired via FR.	CT19
DP	2" Recessed Downlight	PORTFOLIO	LD2B-5-D5LT-EU2B-05SP15-8035-2LB-D1LI	120 V	LED	Fixture with DALI driver.	DP
DP72	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 72"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP72
DP102	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 102"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP102
DP112	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 112"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP112
DP118	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 118"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP118
DP125	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 125"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP125
DP132	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 132"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP132
DP138	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 138"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DP138
DP153	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 153"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect prior to ordering.	DP153
DP210	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 210"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect prior to ordering.	DP210
DP420	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 420"-35K	120 V	LED	Wired via DAC. Coordinate exact length with the Architect prior to ordering.	DP420
DS	Recessed Downlight	PORTFOLIO	LD4B-10-D5LT-EU6B-1020-8035-6LB-W0LI-LGSKT6IP66-WIDE DISTRIBUTION	277 V	LED	Fixture with DALI driver.	DS
DV48	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 48"-35K-VERTICALLY MOUNTED	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DV48
DV84	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 84"-35K-VERTICALLY MOUNTED	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DV84
DV114	Display Case Lighting	FEELUX	TUNELIGHT 2-DIM (0-10V)-APPROX. LENGTH 114"-35K-VERTICALLY MOUNTED	120 V	LED	Wired via DAC. Coordinate exact length with the Architect	DV114
TS6W	Track with (6) Track Heads	AMERLUX	PROVIDE 13FT TRACK-2 CIRCUIT-WITH (6) TRACK HEADS-DIMMABLE, 120- A17-20-3CLA-TEK-120-MFL-409-LE/TE-SNAH-HEX-COMPATIBLE WITH LIGHTING CONTROL SYSTEM-AIM FIXTURES PER ARCHITECTS DIRECTION-WALL MOUNTED TRACK	120 V	LED	Wired via (2) DAC. Provide all parts and accessories for full and complete installation. Coordinate exact length and location with the architect. Provide with track bending tool.	TS6W
TS12	Track with (12) Track Heads	AMERLUX	PROVIDE 13FT TRACK-2 CIRCUIT-WITH (12) TRACK HEADS-DIMMABLE, 120- A17-20-3CLA-TEK-120-MFL-409-LE/TE-SNAH-HEX-COMPATIBLE WITH LIGHTING CONTROL SYSTEM-AIM FIXTURES PER ARCHITECTS DIRECTION-SUSPENDED TRACK	120 V	LED	Wired via (2) DAC. Provide all parts and accessories for full and complete installation. Coordinate exact length and location with the architect. Provide with track bending tool.	TS12

SHEET REF. NO.
E9.01

DRAWING NUMBER:
ADD-7
E-025

DRAWING NAME:
Lighting Fixture Schedule

DATE:
02/20/19

SCALE:

REFERENCE:
Addendum #7

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

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
120 GROVE STREET, SUITE 320
WORCESTER, MASSACHUSETTS 01605
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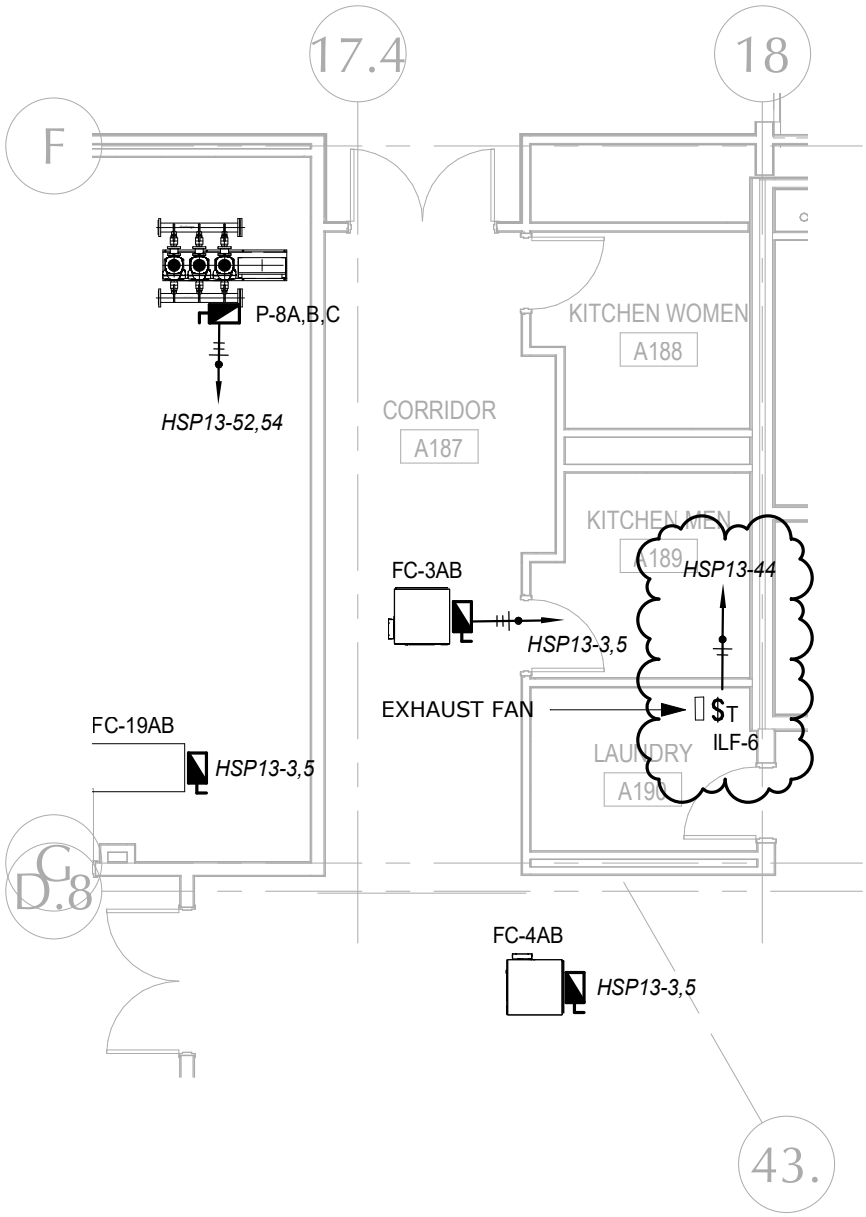

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

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

PROJECT TITLE:
FINAL BID PACKAGE

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

DRAWING NAME:
HVAC Power - ILF-6

SHEET REF. NO.
E5.4

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-026

DRAWING NAME: HVAC POWER - ILF-2, HP-1, HP-2, AND HP-3

DATE: 02/20/19

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

REFERENCE: Addendum #7

SHEET REF. NO. E5.2

DRAWING NUMBER: ADD-7 / E-027

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

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

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ELECTRICAL EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FLA	MCA	TRIP	VOLTAGE	POLES	DISC./FUSE	NEMA	PANEL	CKT #	FEEDER	TAG
ACCU-3AB	ROOFTOP UNIT	157.6	165	225	480 V	3	400AS/225AF	NEMA 3R	MDP2	13,15,17	2"C,3#1/0,#6G	ACCU-3AB
HEF-1	EXHAUST FAN WIRED VIA VFD - 5HP	7.6	9.5	20	480 V	3	30AS/15AF	NEMA 3R	L32	7,9,11	3/4"C,3#12,#12G	HEF-1
HEF-2	EXHAUST FAN WIRED VIA VFD - 5HP	7.6	9.5	20	480 V	3	30AS/15AF	NEMA 3R	L32	1,3,5	3/4"C,3#12,#12G	HEF-2
HEF-3	EXHAUST FAN WIRED VIA VFD - 5HP	7.6	9.5	20	480 V	3	30AS/15AF	NEMA 3R	L33	2,4,6	3/4"C,3#12,#12G	HEF-3
HP-1	PUMP - 1HP	4.8	6	20	208 V	3	30AS/10AF		HSPM	2,4,6	3/4"C,3#12,#12G	HP-1
HP-2	PUMP - 1HP	4.8	6	20	208 V	3	30AS/10AF		HSPM	8,10,12	3/4"C,3#12,#12G	HP-2
HP-3	PUMP - 1HP	4.8	6	20	208 V	3	30AS/10AF		HSPM	29,31,33	3/4"C,3#12,#12G	HP-3
ILF-2	FAN WIRED VIA VFD - 2HP	3.4	4.25	20	480 V	3	30AS/10AF		HSLM	43,45,47	3/4"C,3#12,#12G	ILF-2
ILF-6	FAN	1.01	1.25	20	120 V	1			HSP13	44	3/4"C,2#12,#12G	ILF-6

9

SHEET REF. NO.
E9.02

DRAWING NUMBER:
ADD-7
E-028

DRAWING NAME:
Equipment Schedule

DATE:
02/20/19

SCALE:

REFERENCE:
Addendum #7

PROJECT TITLE:

FINAL BID PACKAGE

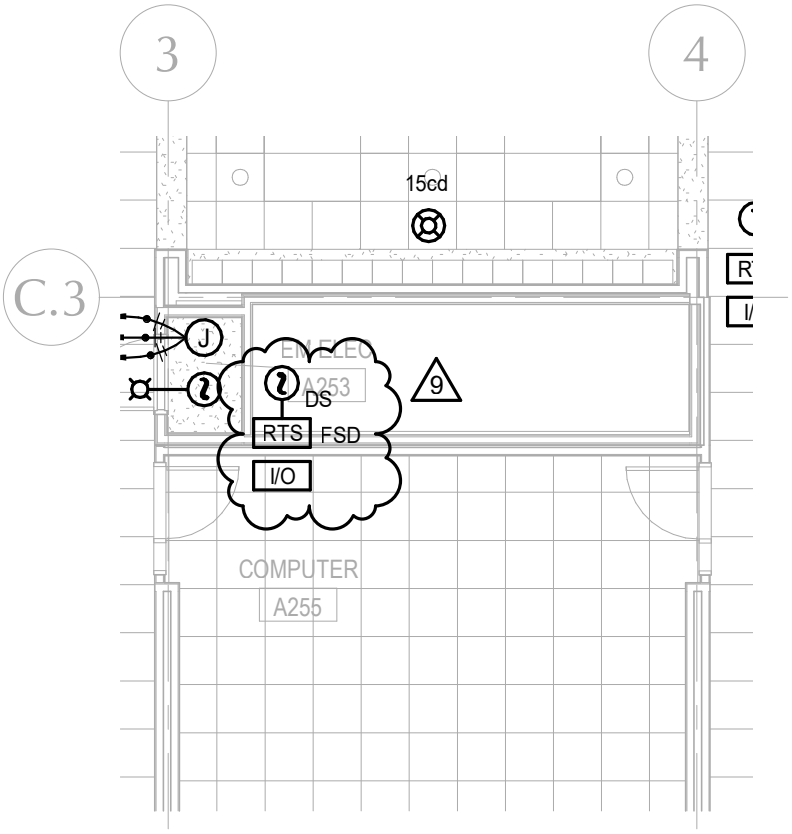
South High Community School

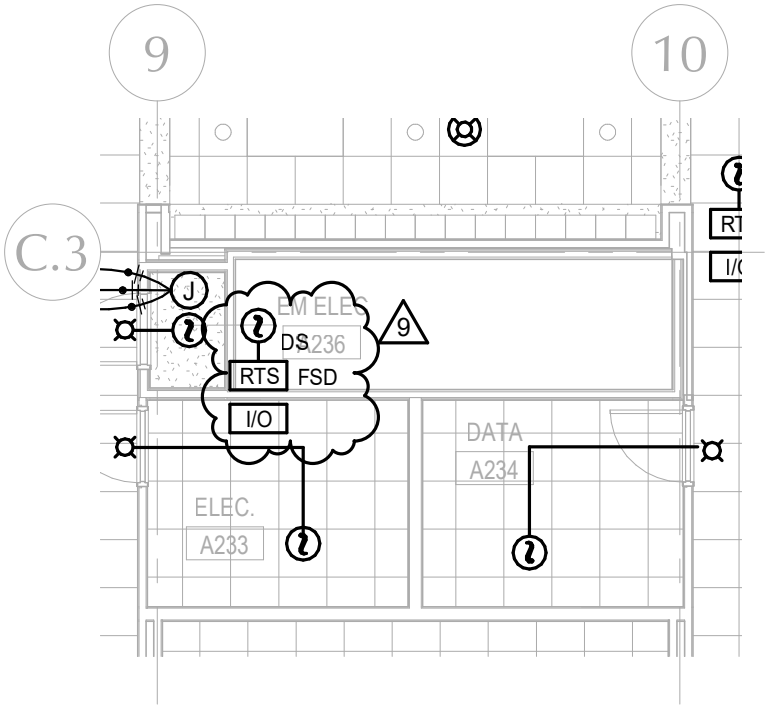
170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
148 ROYCE STREET, SUITE 306
WORCESTER, MASSACHUSETTS 01609
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS





LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Fire Alarm - Duct Smoke Detectors

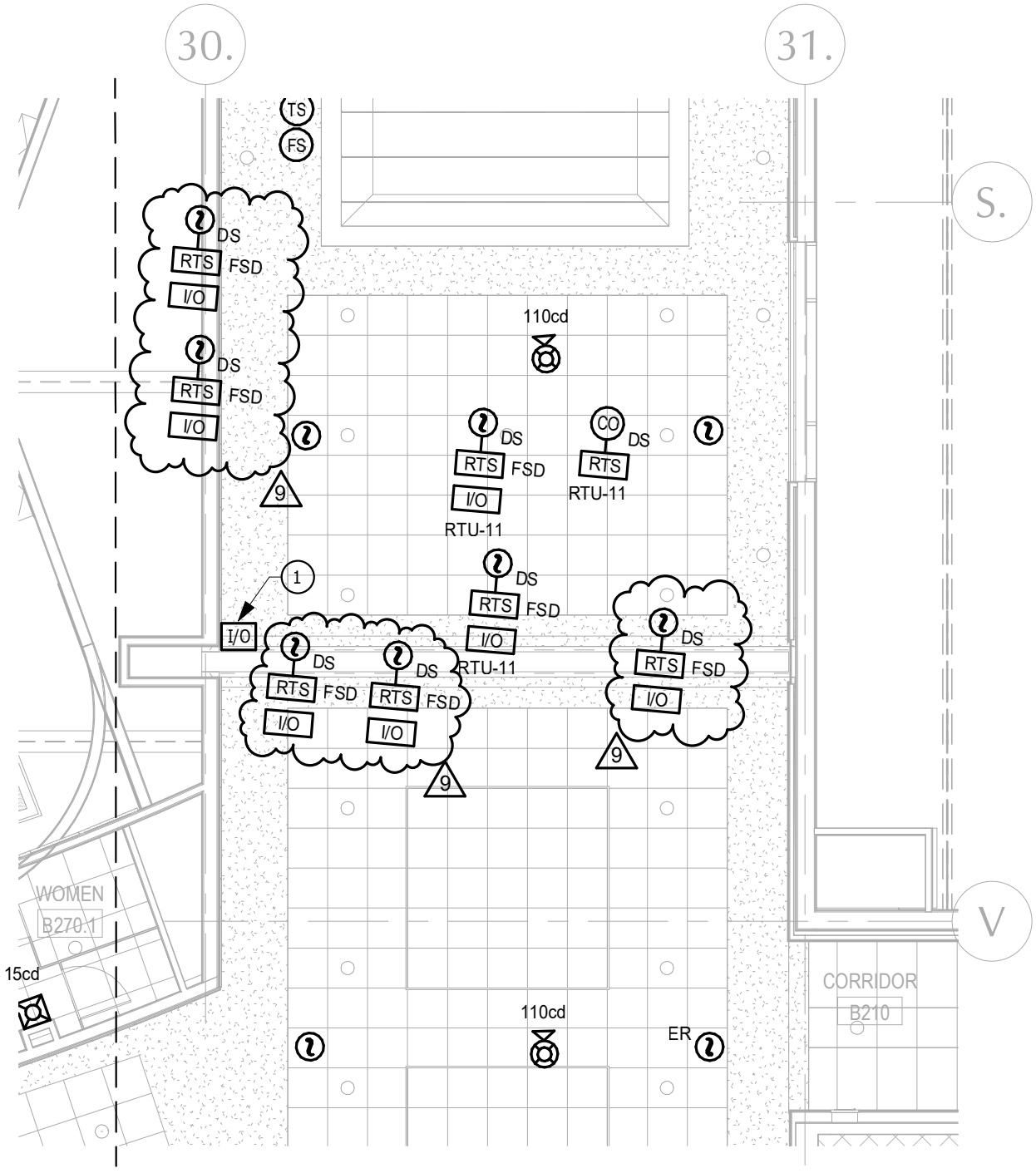
SHEET REF. NO.
E4.7

DATE:
02/20/19

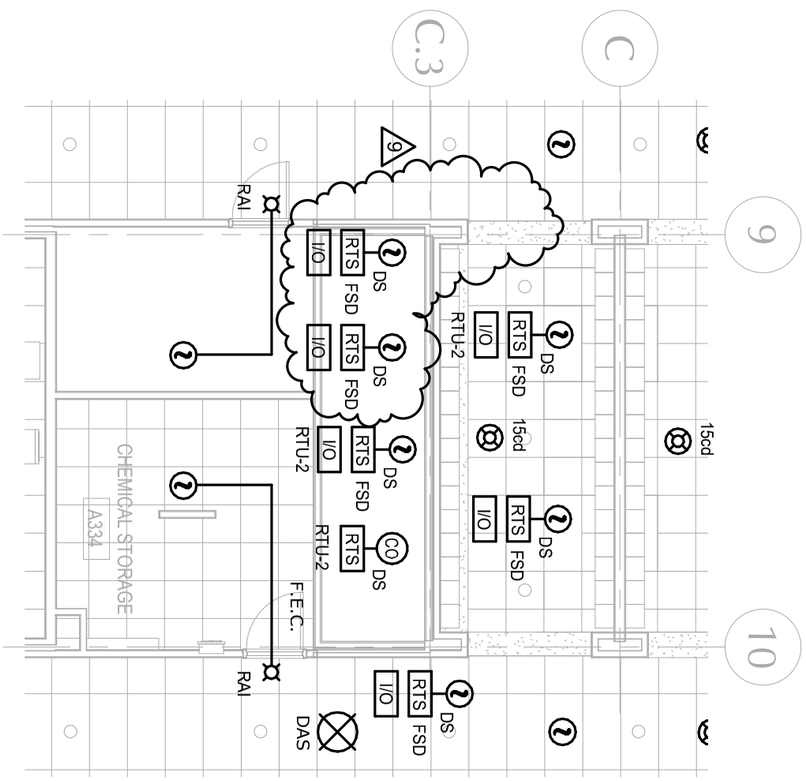
SCALE:
1/8" = 1'-0"

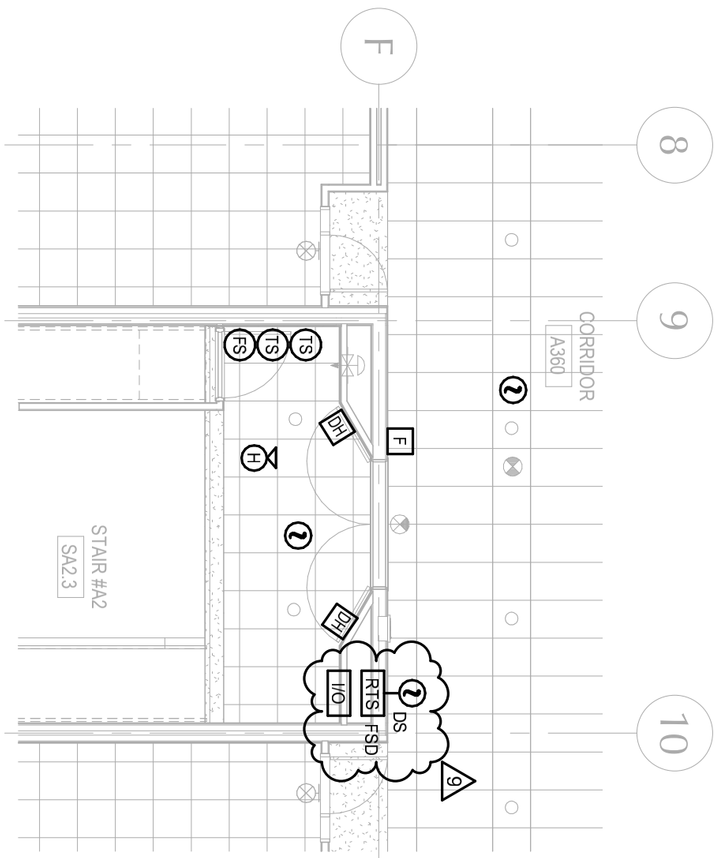
REFERENCE:
Addendum #7

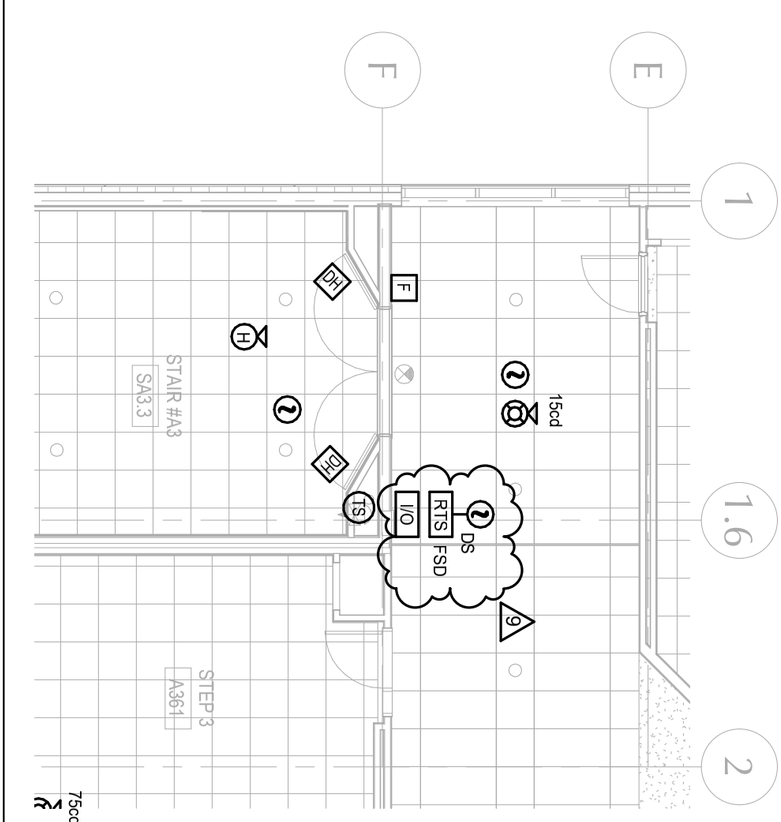
DRAWING NUMBER:
ADD-7
E-029



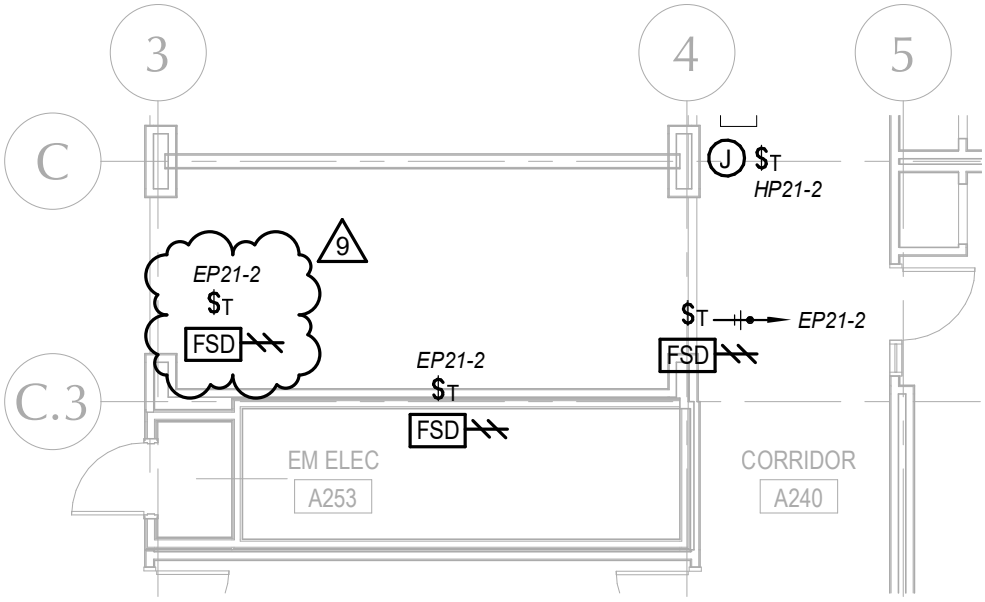
LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Fire Alarm - Duct Smoke Detectors DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E4.10 DRAWING NUMBER: ADD-7 E-030

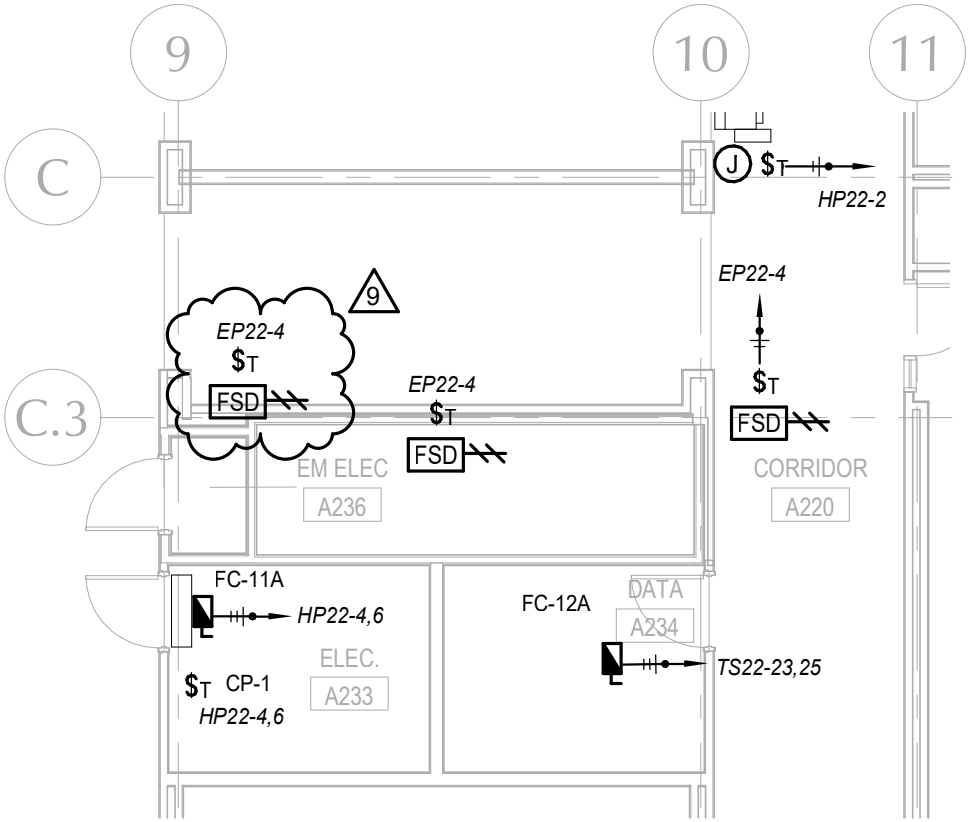






LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Fire Alarm - Duct Smoke Detectors DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E4.11 DRAWING NUMBER: ADD-7 E-031





LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
HVAC Power - Fire Smoke Damper

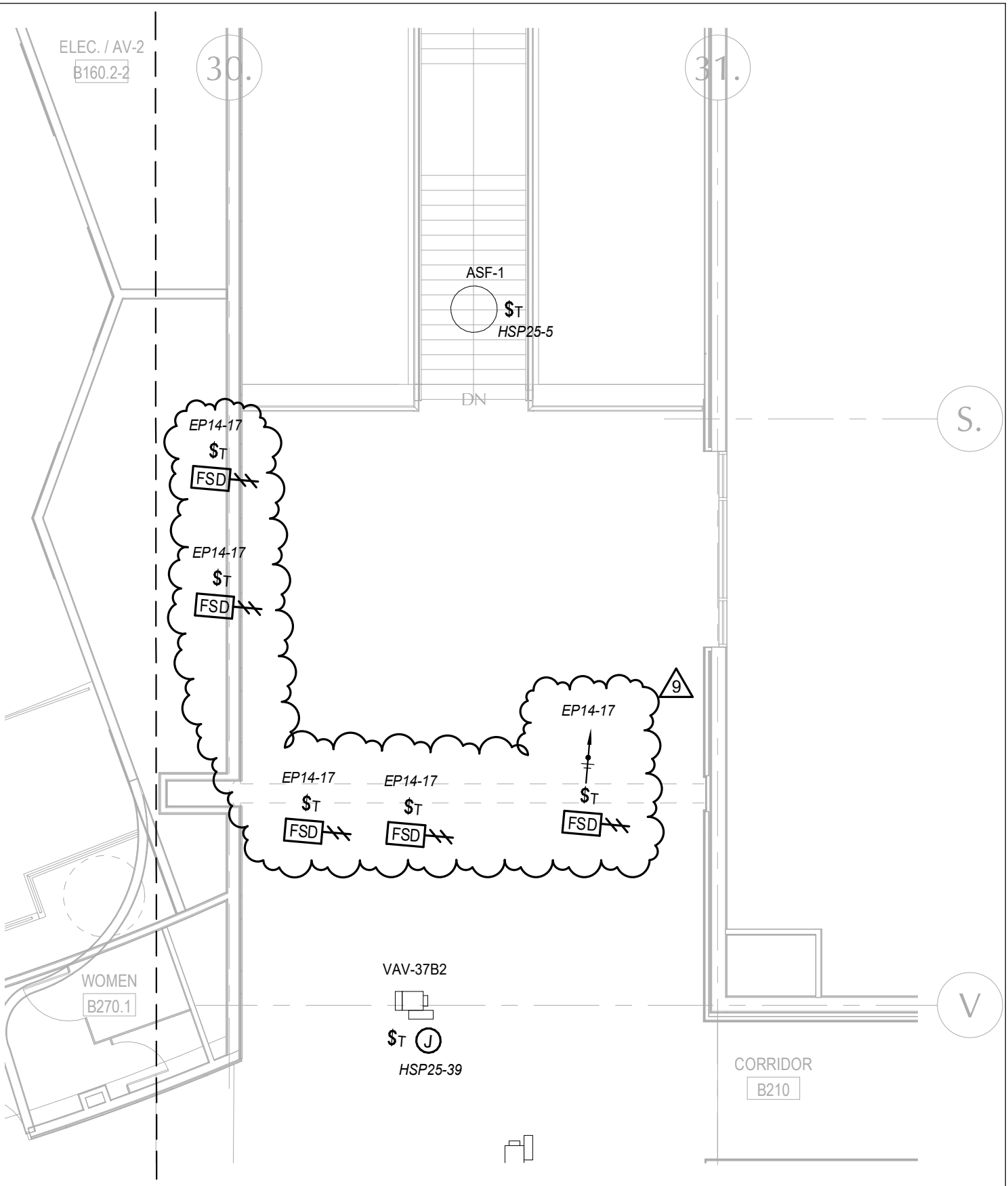
SHEET REF. NO.
E5.7

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-032



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
HVAC Power - Fire Smoke Damper

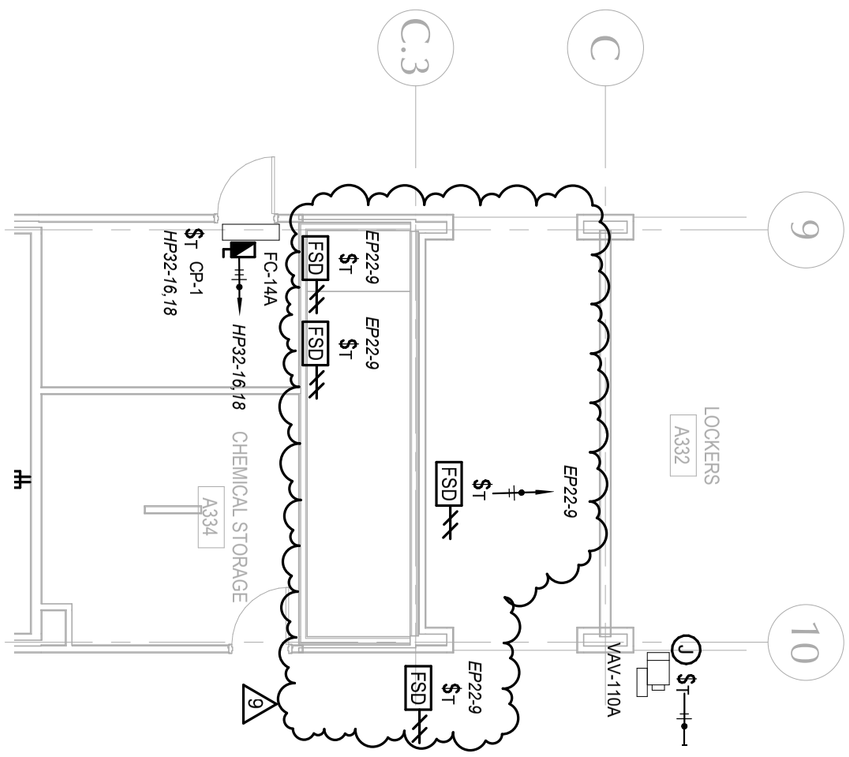
SHEET REF. NO.
E5.10

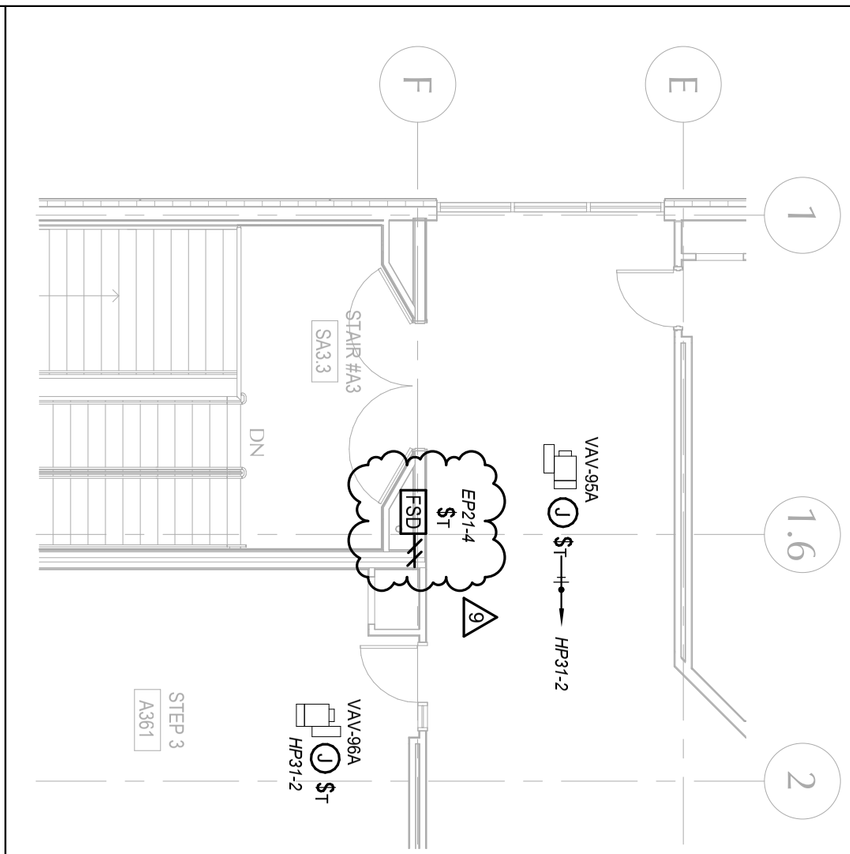
DATE:
02/20/19

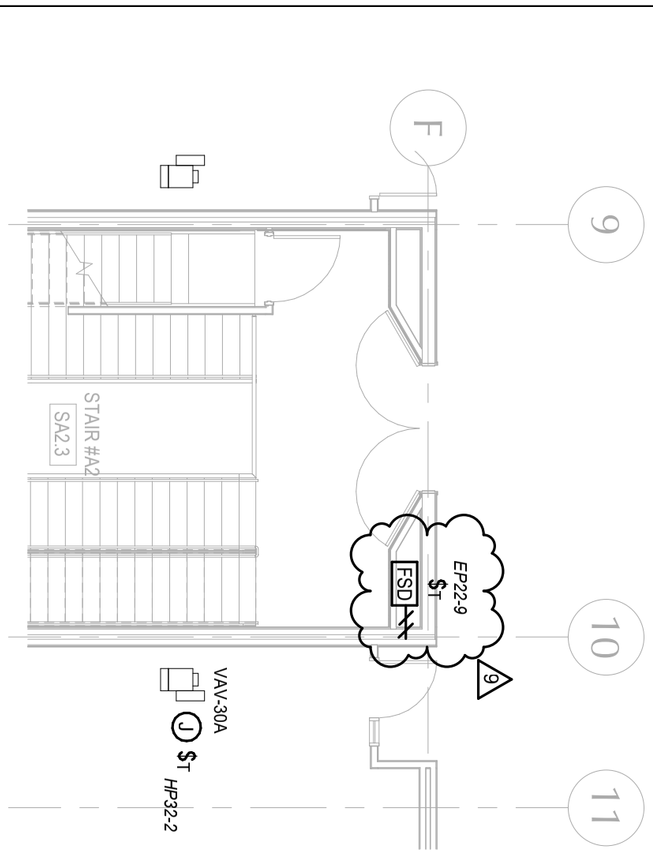
SCALE:
1/8" = 1'-0"

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-033







LAMOUREUX PACANO ASSOCIATES ARCHITECTS
100 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
HVAC Power - Fire Smoke Damper

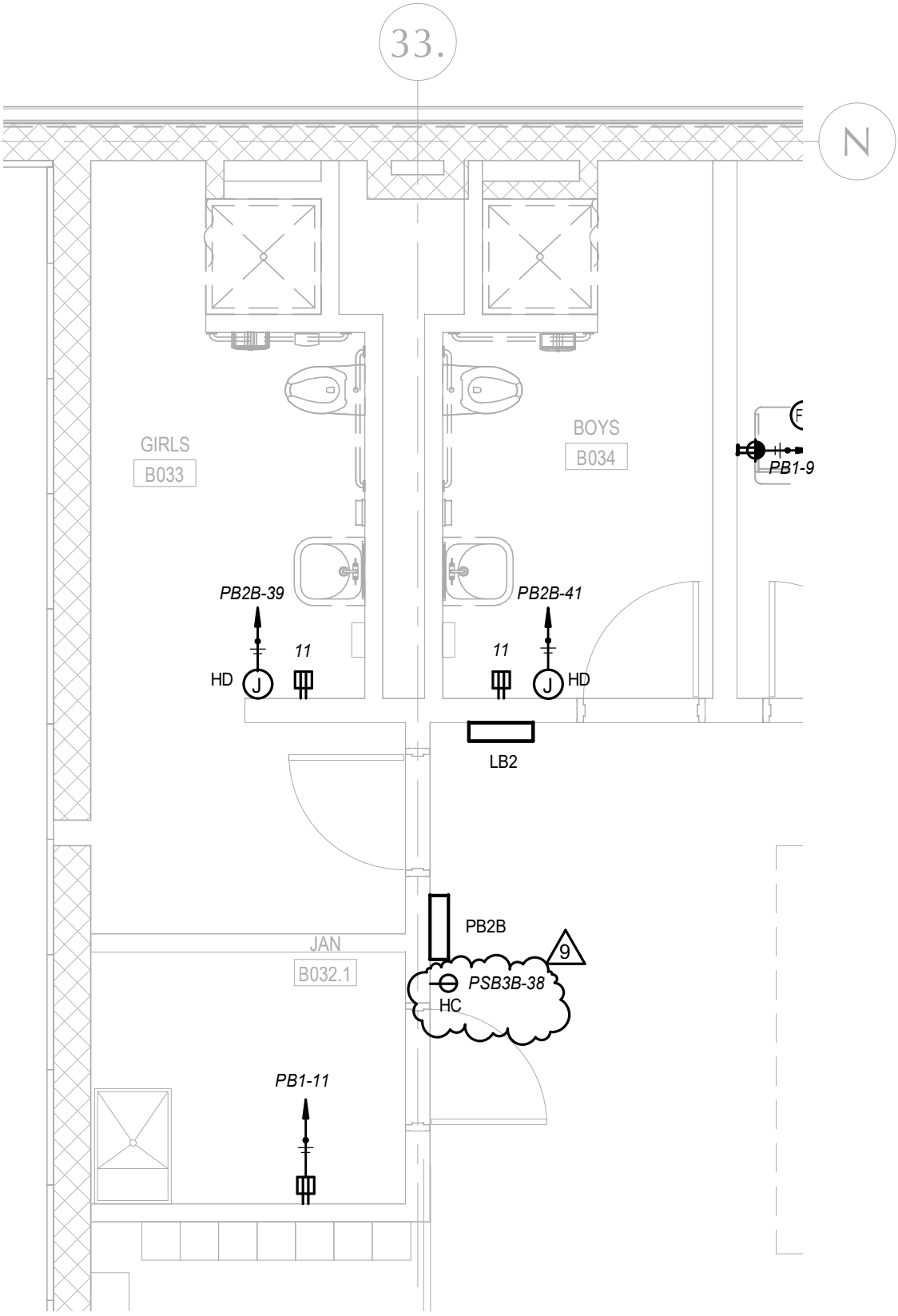
SHEET REF. NO.
E5.11

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-034



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Power for Clock

SHEET REF. NO.
E2.2A

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-035

DRAWING NAME: Power for Speaker

SHEET REF. NO.

DRAWING NUMBER: ADD-7

E-036

DATE: 02/20/19

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

REFERENCE: Addendum #7

PROJECT TITLE:

FINAL BID PACKAGE

South High Community School

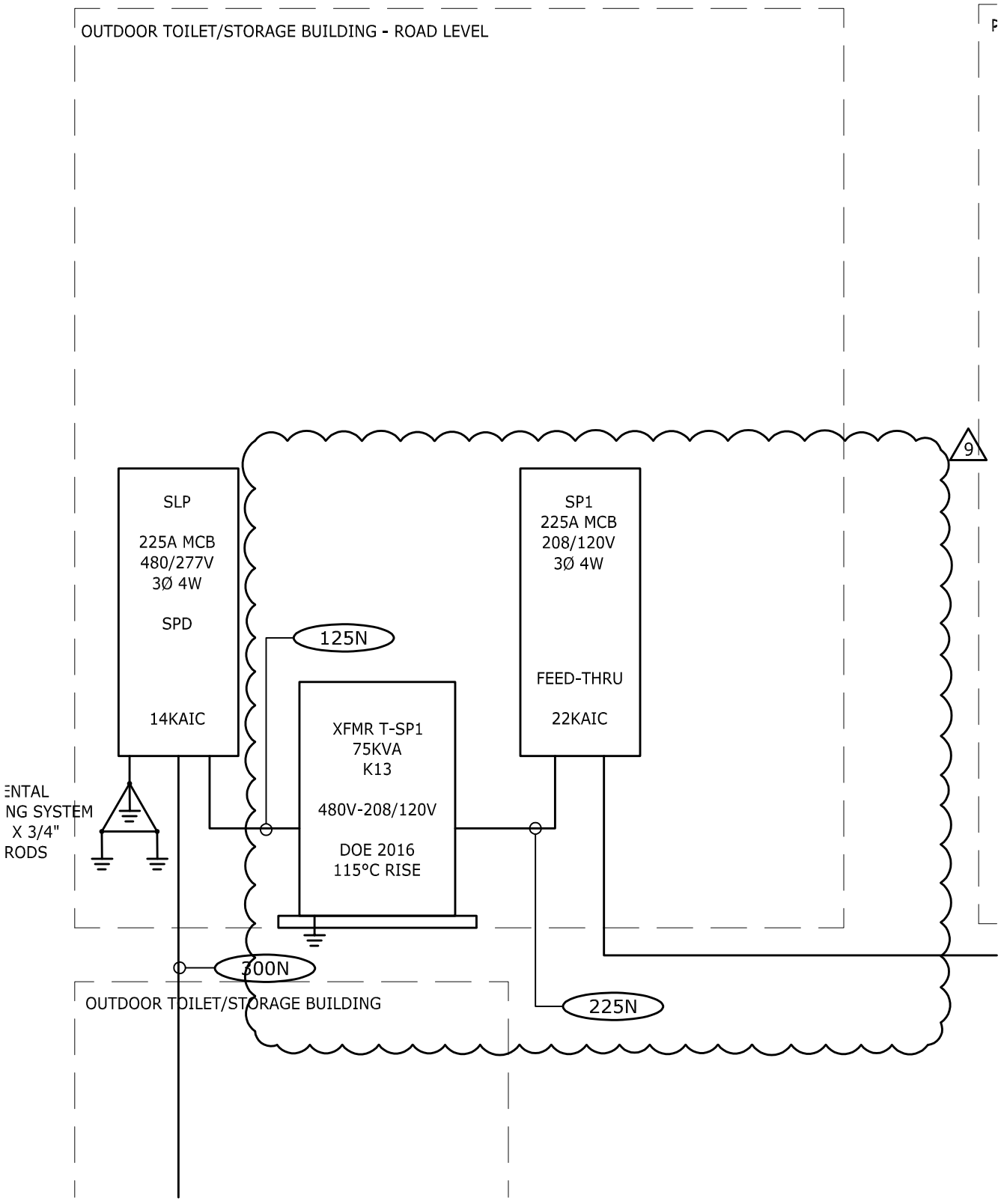
170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

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

MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS



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

CLIENT INFORMATION:
Worcester Public Sc...
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
FINAL BID PACKAGE

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

DRAWING NAME:
Panel SP1 & XFMR T-SP1

SHEET REF. NO.
E8.0D

DATE:
2/20/19

SCALE:
NTS

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-037

9

Panel: SP1

New Panel

Location:
Mounting: Surface
Fed From: T-SP1

Volts: 120/208 3PH
Phases: 3
Wires: 4

Mains Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	DOOR CONTROL	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	DOOR CONTROL	20 A	1					0	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	RECEPTACLE	20 A	1			0	0			1	20 A	RECEPTACLE - GROUNDBOX	10
11	RECEPTACLE	20 A	1					0	0	1	20 A	RECEPTACLE - GROUNDBOX	12
13	RECEPTACLE	20 A	1	0	0					1	20 A	RECEPTACLE - GROUNDBOX	14
15	RECEPTACLE	20 A	1			0	0			1	20 A	SPARE	16
17	RECEPTACLE	20 A	1					0	0	1	20 A	SPARE	18
19	RECEPTACLE	20 A	1	0	0					1	20 A	SPARE	20
21	RECEPTACLE	20 A	1			0	3			2	40 A	OSEWH-1	22
23	RECEPTACLE	20 A	1					0	3				24
25	RECEPTACLE	20 A	1	0	0					1	20 A	AV RACK	26
27	RECEPTACLE	20 A	1			0	0			1	20 A	AV RACK	28
29	RECEPTACLE	20 A	1					0	0	1	20 A	AV RACK	30
31	HAND DRYER	20 A	1	0	0					1	20 A	AV RACK	32
33	HAND DRYER	20 A	1			0	0			1	20 A	BUILDING MOUNTED CAMERA	34
35	HAND DRYER	20 A	1					0	0	1	20 A	BUILDING MOUNTED CAMERA	36
37	HAND DRYER	20 A	1	0	0					1	20 A	POLE MOUNTED CAMERAS AND SPEAKER	38
39	Spare	20 A	1			0	0			1	20 A	POLE MOUNTED CAMERAS AND SPEAKER	40
41	MOTORIZED DAMPER	20 A	1					0	0	1	20 A	POLE MOUNTED CAMERA AND SPEAKER	42
43	MOTORIZED DAMPER	20 A	1	0	0					1	20 A	POLE MOUNTED CAMERA AND SPEAKER	44
45	POWER SERVER ROOM A213	20 A	1			0	0			1	20 A	POLE MOUNTED CAMERAS AND SPEAKER	46
47	VEHICLE CHARGING STATION	40 A	2					0	0	1	20 A	POLE MOUNTED CAMERA AND SPEAKER	48
49				0	0.9					3	60 A	SP2	50
51	RECEPTACLE L5-30R (120V-1P-30A) SERVER...	30 A	1			0	0.4						52
53	RECEPTACLE L5-30R (120V-1P-30A) SERVER...	30 A	1					0	0.4				54
55	ILF-7	20 A	1	0.48	0					2	40 A	VEHICLE CHARGING STATION	56
57	ILF-8	20 A	1			0.96	0						58
59	VEHICLE CHARGING STATION	40 A	2					0	0	2	40 A	VEHICLE CHARGING STATION	60
61				0	0								62
63	VEHICLE CHARGING STATION	40 A	2			0	0			2	40 A	VEHICLE CHARGING STATION	64
65								0	0				66

SHEET REF. NO. E9.15
DRAWING NUMBER: ADD-7 E-038
DRAWING NAME: Panel Schedule - SP1
DATE: 02/20/19
SCALE:
REFERENCE: Addendum #7
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
LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 201 WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

9

Panel: MDP1

New Panel

Location: ELECTRIC B006
Mounting: Floor
Fed From:

Volts: 480/277 3PH
Phases: 3
Wires: 4

Mains Rating: 4000 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				17.45	17.45								2
3	RTU-8	80 A	3			17.45	17.45			3	80 A	RTU-9	4
5								17.45	17.45				6
7				26.81	26.81								8
9	RTU-11	150 A	3			26.81	26.81			3	100 A	RTU-14	10
11								26.81	26.81				12
13				1.68	0								14
15	LB2	125 A	3			1.23	0			3	125 A	Spare	16
17								1.34	0				18
19				54.1	35.22								20
21	T-DPB	300 A	3			62.73	35.22			3	400 A	HL15	22
23								57.93	35.22				24
25				58.03	30.72								26
27	DH14	400 A	3			62.81	28.73			3	400 A	ATS-ELS	28
29								54.3	26.4				30
31				36.11	0								32
33	RTU-16	175 A	3			36.11	0			3	225 A	Spare	34
35								36.11	0				36
37				0									38
39	PVB	1200 A	3			0							40
41								0					42
43				817.85									44
45	MDP2	2500 A	3			837.72							46
47								800.5					48
49				504.58									50
51	ATS-SDL	1600 A	3			493.9							52
53								488.18					54

SHEET REF. NO.
DRAWING NUMBER: ADD-7 / E-039
DRAWING NAME: Panel Schedule - MDP1
DATE: 02/20/19
SCALE:
REFERENCE: Addendum #7

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

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
148 ROVE STREET, SUITE 380
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

9

Panel: SDL1

New Panel

Location: ELECTRIC B006
Mounting: Floor
Fed From: ATS-SDL

Volts: 480/277 3PH
Phases: 3
Wires: 4

Mains Rating: 1600 A

Notes:

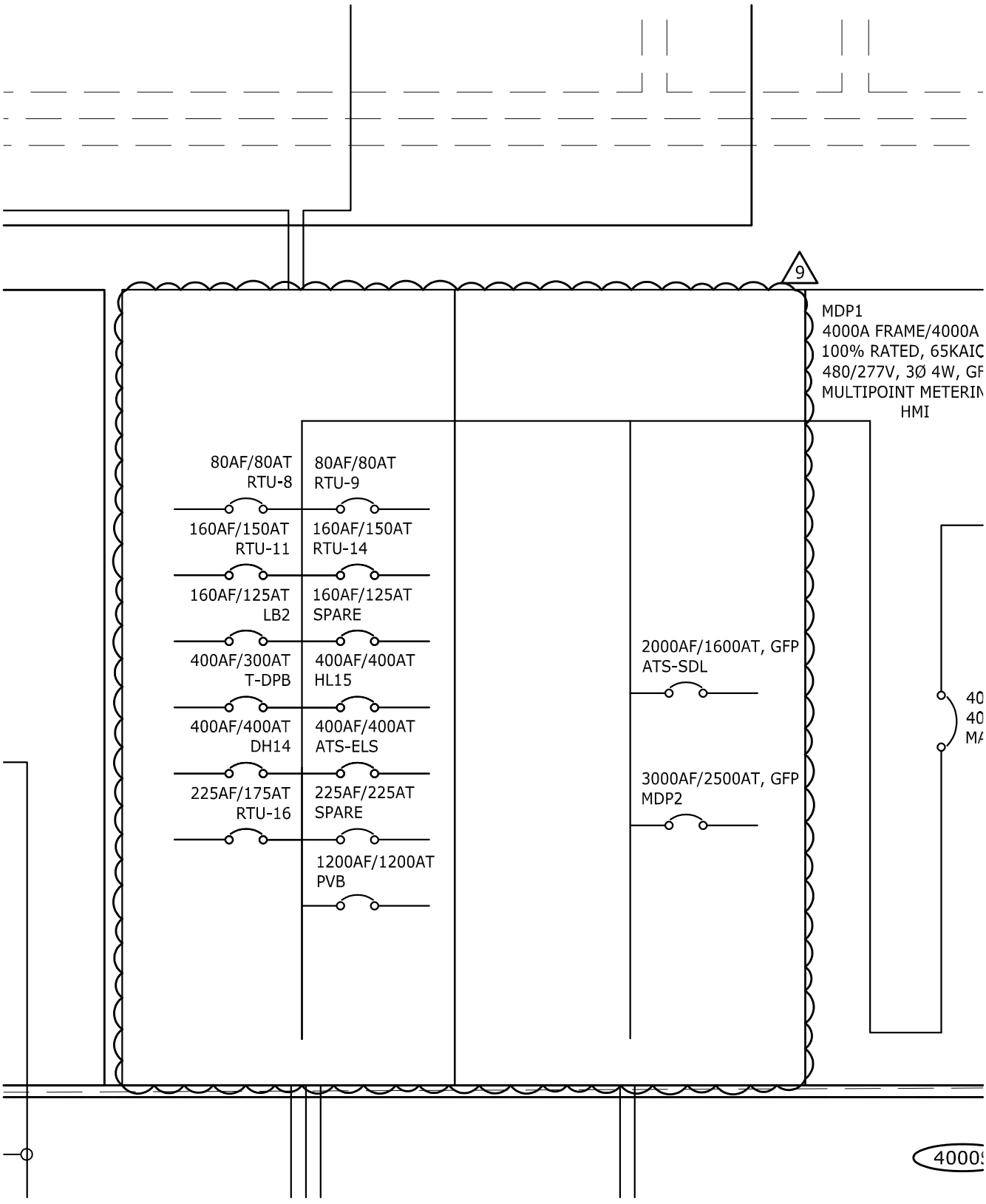
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				215.28									2
3	SDL2	800 A	3			215.54							4
5								205.61					6
7				11.3	9.42								8
9	RTU-20	60 A	3			11.3	9.42			3	80 A	ELEV-2	10
11								11.3	9.42				12
13				22.15	1.38								14
15	RTU-21	150 A	3			22.15	4.36			3	225 A	SLP	16
17								22.15	3.4				18
19				18.39	2.57								20
21	RTU-22	100 A	3			18.39	0.98			3	125 A	LSB1	22
23								18.39	4.63				24
25				52.46	24.44								26
27	HSLM	400 A	3			52.46	24.44			3	400 A	HLS14	28
29								52.46	24.44				30
31				55.96	27.96								32
33	T-SDP1	300 A	3			43.5	24.09			3	300 A	T-SDP2	34
35								49.34	22.89				36
37				63.4	0								38
39	DSH15	400 A	3			68.26	0			3	400 A	Spare	40
41								64.37	0				42

SHEET REF. NO.
DRAWING NUMBER: ADD-7 / E-040
DRAWING NAME: Panel Schedules - SDL1
DATE: 02/20/19
SCALE:
REFERENCE: Addendum #7

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

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
120 GROVE STREET, SUITE 320
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



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

CLIENT INFORMATION:
Worcester Public Sc...
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Panel MDP1

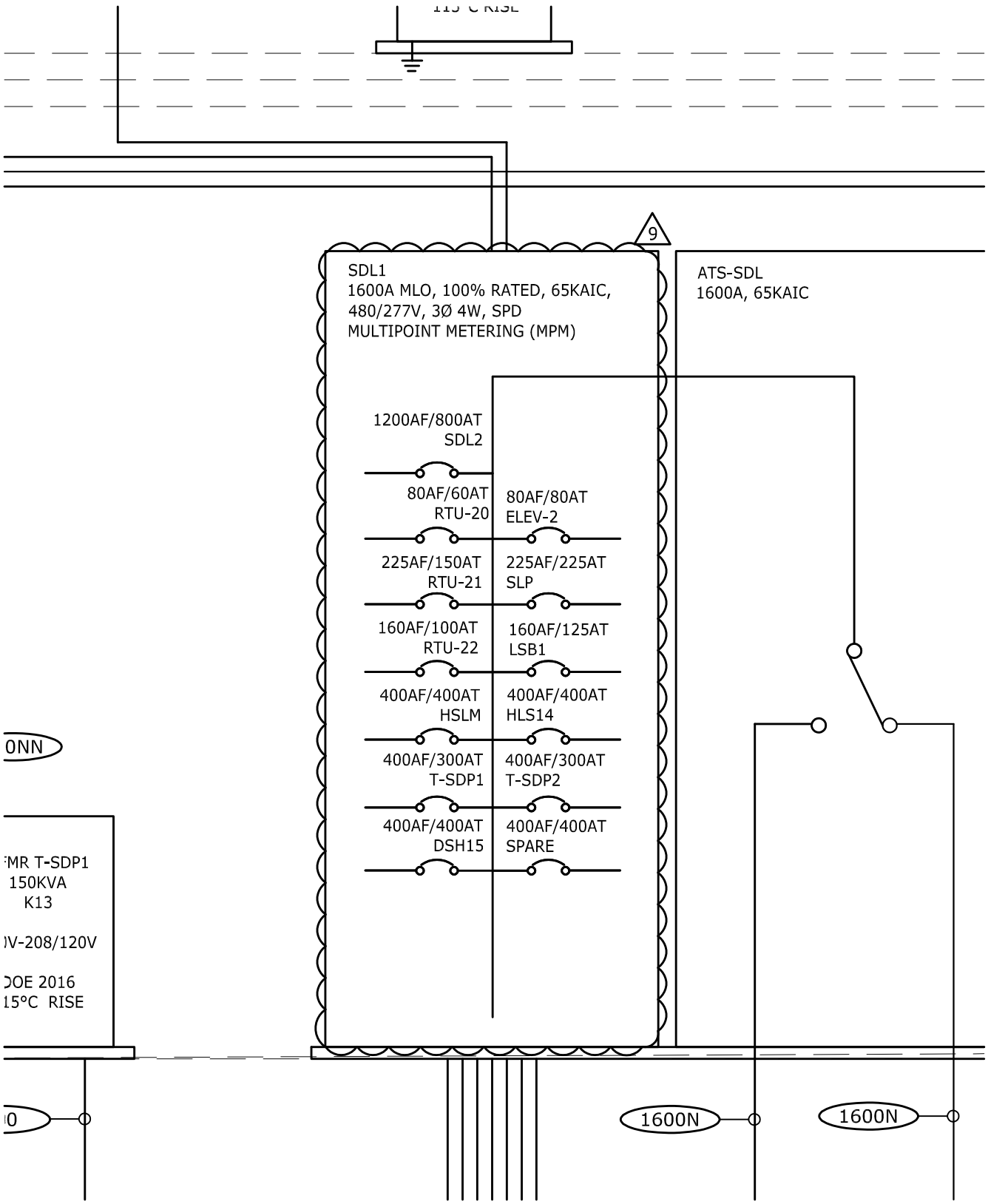
SHEET REF. NO.
E8.0D

DATE:
2/20/19

SCALE:
NTS

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-041



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Panel SDL1

SHEET REF. NO.
E8.0D

DATE:
2/20/19

SCALE:
NTS

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-042

Panel: PVB

New Panel

Location: ELECTRIC B006
Mounting: Surface
Fed From: MDP1

Volts: 480/277 3PH
Phases: 3
Wires: 4

Mains Rating: 1200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				0	0								2
3	INV-22	50 A	3			0	0			3	50 A	INV-25	4
5								0	0				6
7				0	0								8
9	INV-23	50 A	3			0	0			3	50 A	INV-26	10
11								0	0				12
13				0	0								14
15	INV-24	50 A	3			0	0			3	50 A	Spare	16
17								0	0				18
19				0									20
21	PV14	125 A	3			0							22
23								0					24
25				0									26
27	PV15	300 A	3			0							28
29								0					30
31				0									32
33	PV32	600 A	3			0							34
35								0					36
37													38
39													40
41													42

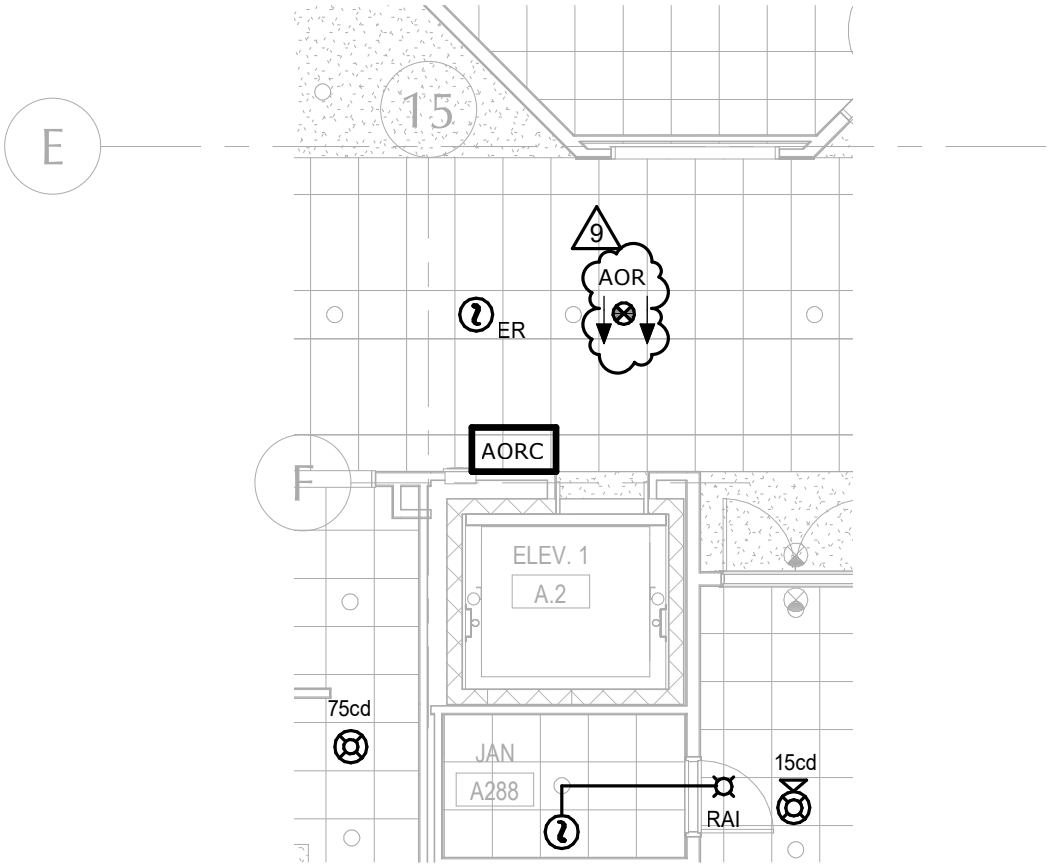
9

DRAWING NAME: Panel Schedules - PVB
SHEET REF. NO. E9.15
DRAWING NUMBER: ADD-7 E-043
DATE: 02/20/19
SCALE:
REFERENCE: Addendum #7

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

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
188 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Area of Refuge Signage
Second Floor

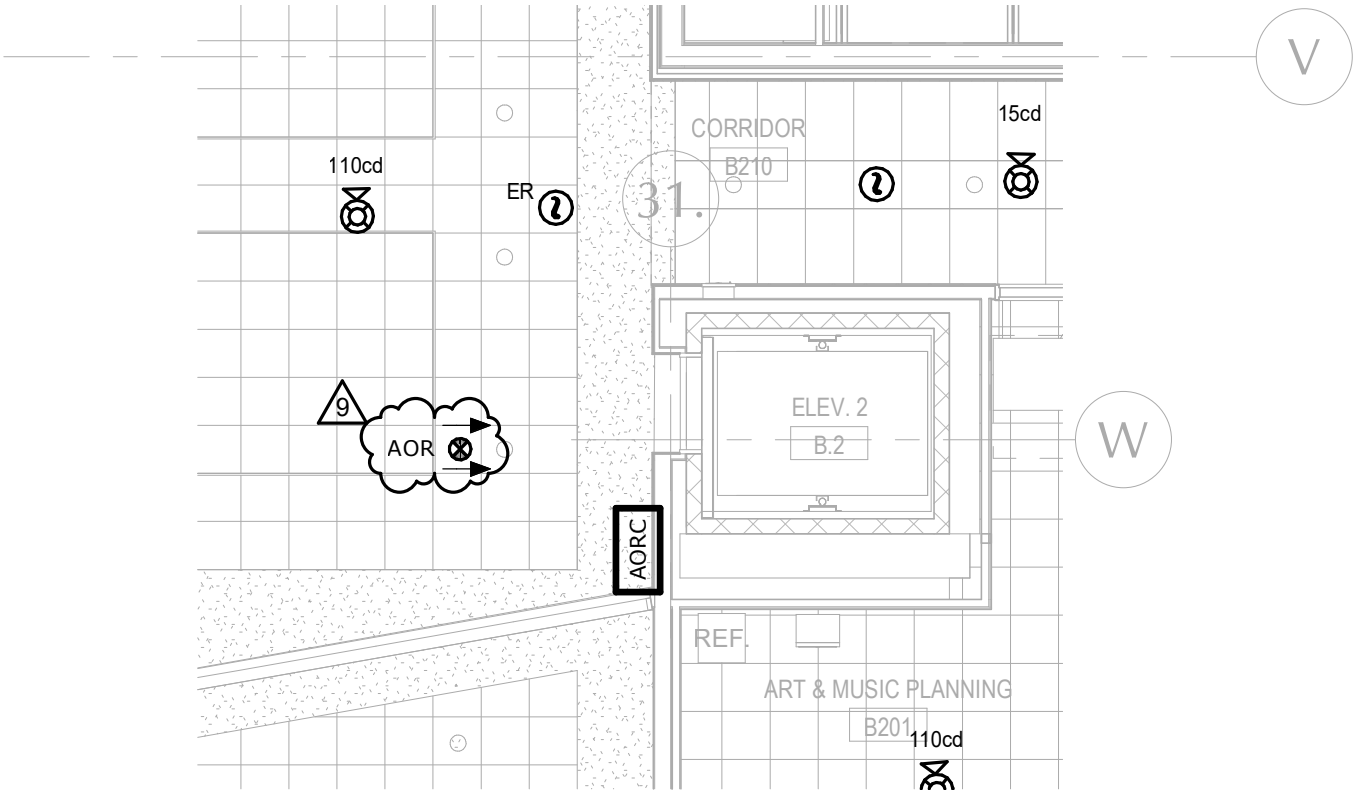
SHEET REF. NO.
E4.8

DATE:
02/20/19

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

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-044



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Area of Refuge Signage
Second Floor

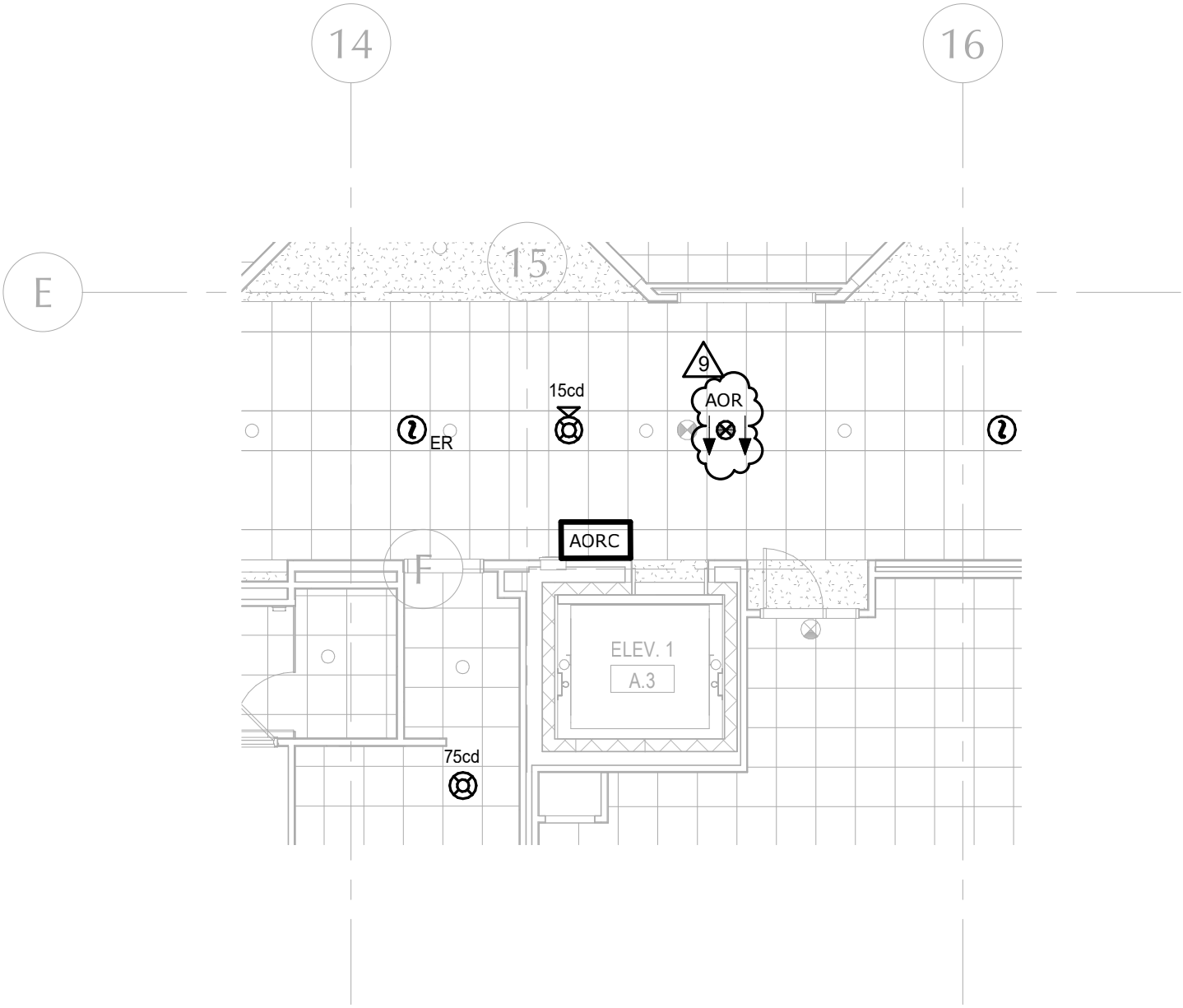
SHEET REF. NO.
E4.10

DATE:
02/20/19

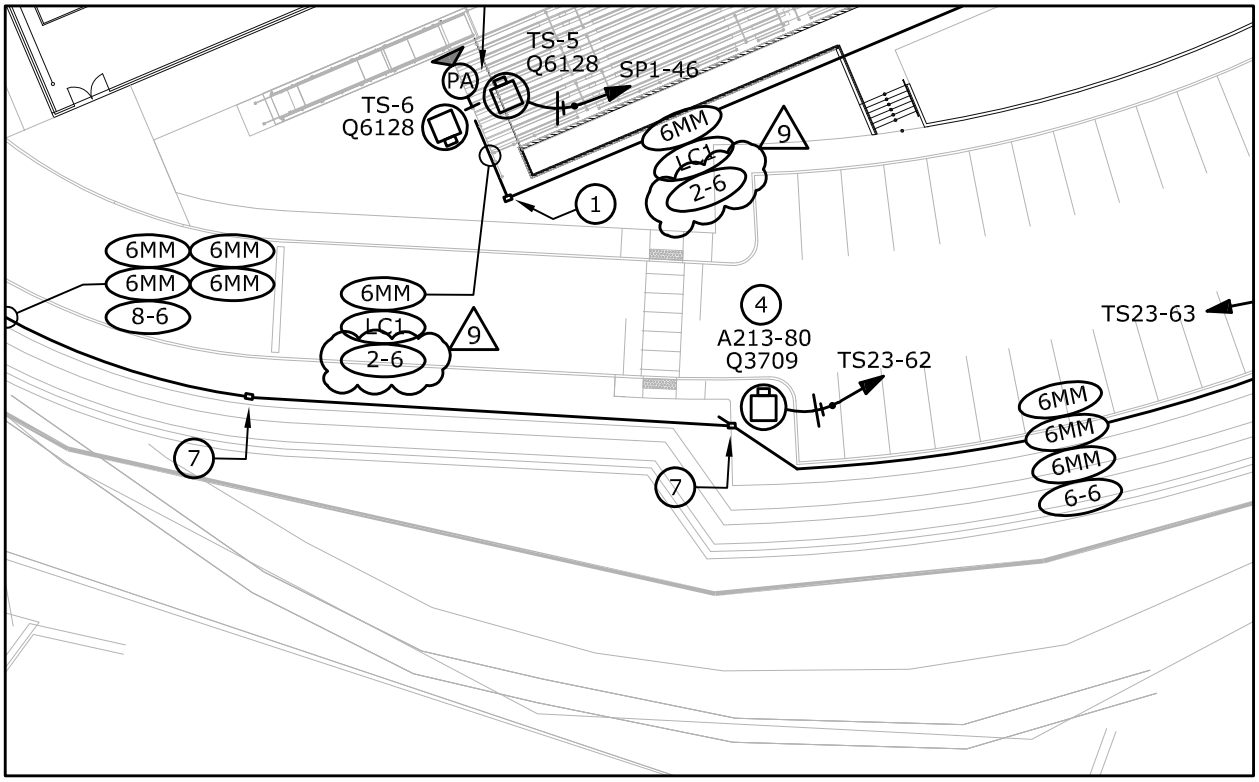
SCALE:
1/8" = 1'-0"

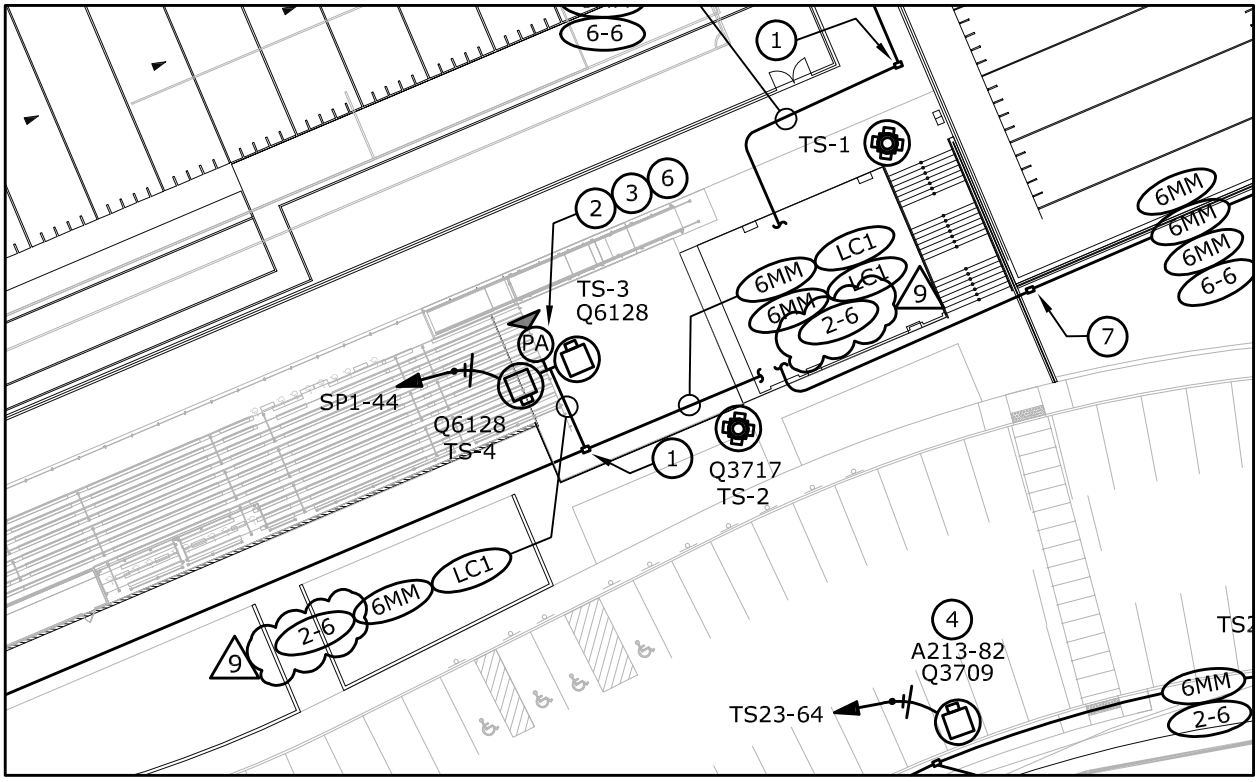
REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-045



LAMOUREUX PAGANO 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Area of Refuge Signage Third Floor DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E4.12 DRAWING NUMBER: ADD-7 E-046





LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Exterior Camera Power

SHEET REF. NO.
E0.4C

DATE:
2/20/19

SCALE:
1" = 40' - 0"

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-047

9

Panel: MDP2

New Panel

Location: ELECTRIC A113
Mounting: Floor
Fed From: MDP1

Volts: 480/277 3PH
Phases: 3
Wires: 4

Mains Rating: 2500 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				11.3	0								2
3	RTU-4	60 A	3			11.3	0			3	125 A	Spare	4
5								11.3	0				6
7				4.52	3.63								8
9	L13	125 A	3			1.4	1.86			3	125 A	L23	10
11								0.04	0				12
13				3.22	26.81								14
15	L33	125 A	3			3.25	26.81			3	125 A	RTU-5	16
17								3.42	26.81				18
19				63.17	35.99								20
21	T-DP23 (112.5KVA)	200 A	3			72.37	37.75			3	200 A	T-DP33 (112.5KVA)	22
23								70.11	36.1				24
25				43.64	34.56								26
27	ACCU-3AB	225 A	3			43.64	34.56			3	175 A	RTU-6	28
29								43.64	34.56				30
31				89.92	39.88								32
33	T-DP13 (225KVA)	400 A	3			93.08	39.88			3	250 A	RTU-3	34
35								89.98	39.88				36
37				223.07									38
39	DH11	1200 A	3			222.48							40
41								219.79					42
43				239.11									44
45	DH12	1200 A	3			250.2							46
47								224.93					48
49													50
51													52
53													54

SHEET REF. NO.
E9.5

DRAWING NUMBER:
ADD-7
E-048

DRAWING NAME:
Panel Schedule - MDP2

DATE:
02/20/19

SCALE:

REFERENCE:
Addendum #7

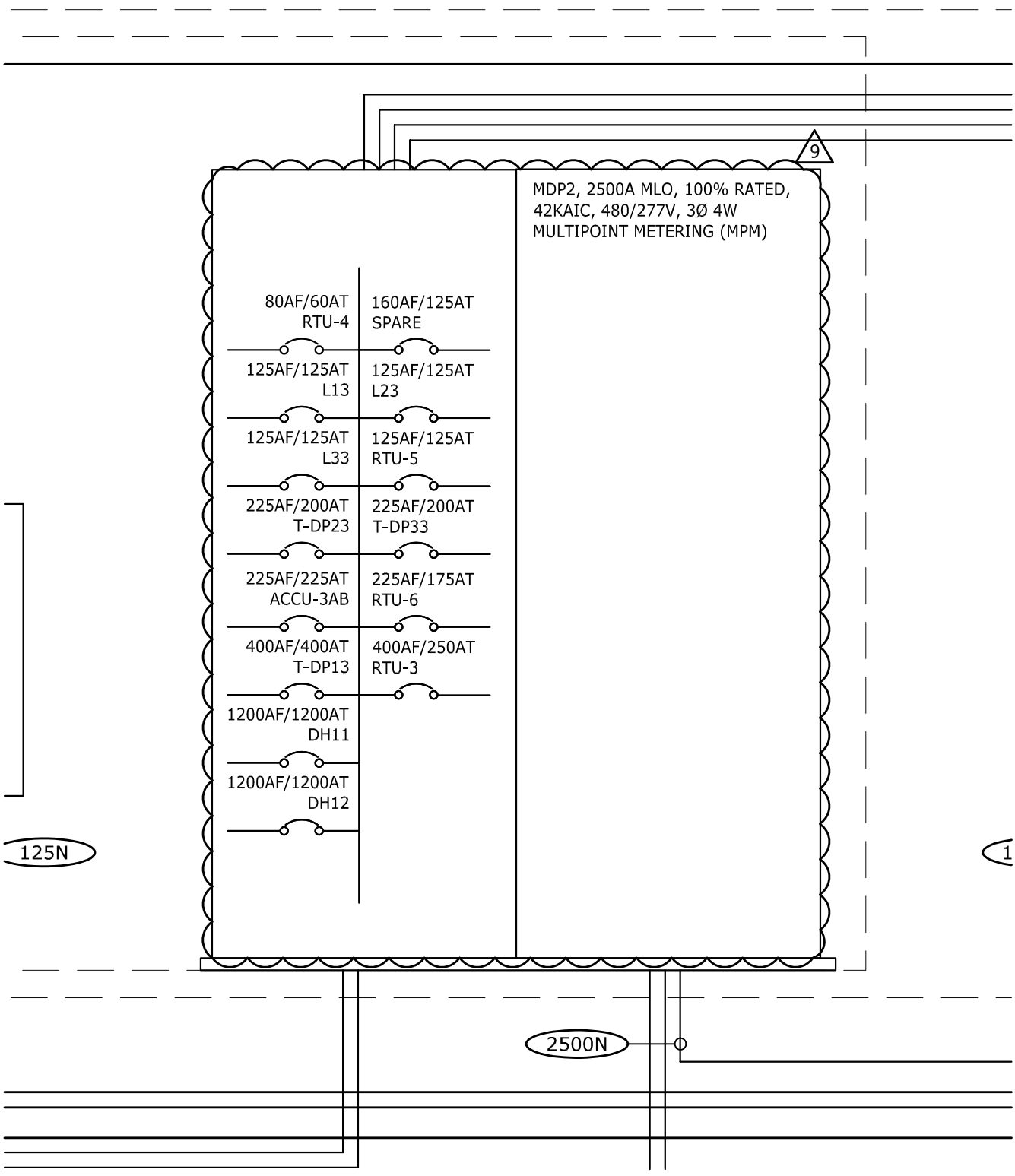
PROJECT TITLE:
FINAL BID PACKAGE

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

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
120 GROVE STREET, SUITE 280
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



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

CLIENT INFORMATION:
Worcester Public Sc...
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Panel MDP2

SHEET REF. NO.
E8.0B

DATE:
2/20/19

SCALE:
NTS

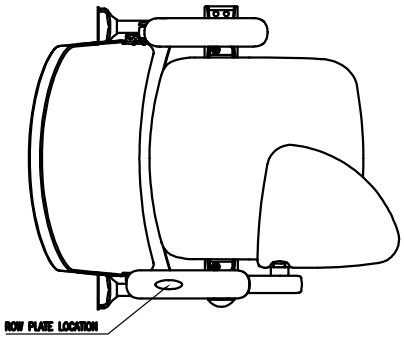
REFERENCE:
Addendum #7

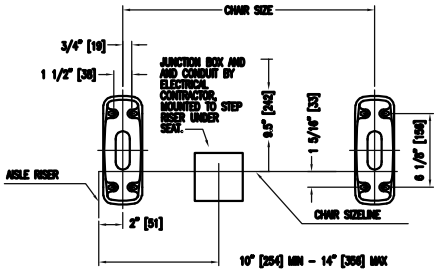
DRAWING NUMBER:
ADD-7
E-049

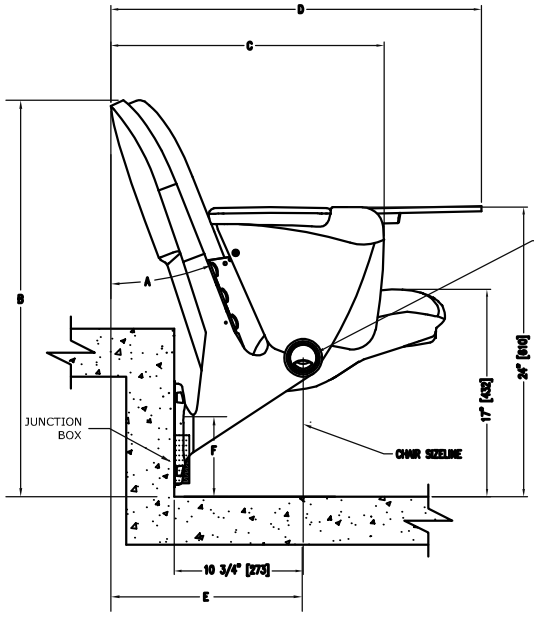
9

NOTES:

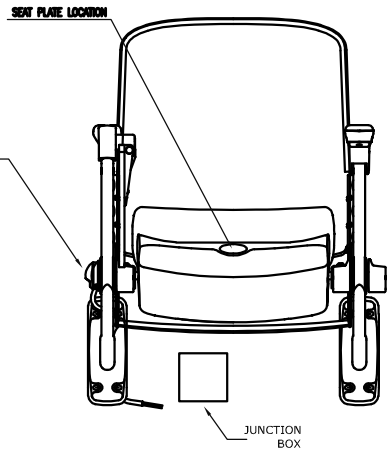
1. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL JUNCTION BOXES, ONE PER AISLE LIGHT.







RISER MOUNT ANCHOR BOLT LOCATIONS



7	AUDITORIUM ISLE SEAT DETAIL	NTS

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE
South High Community School
170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
NEW AUDITORIUM ISLE SEAL DETAIL

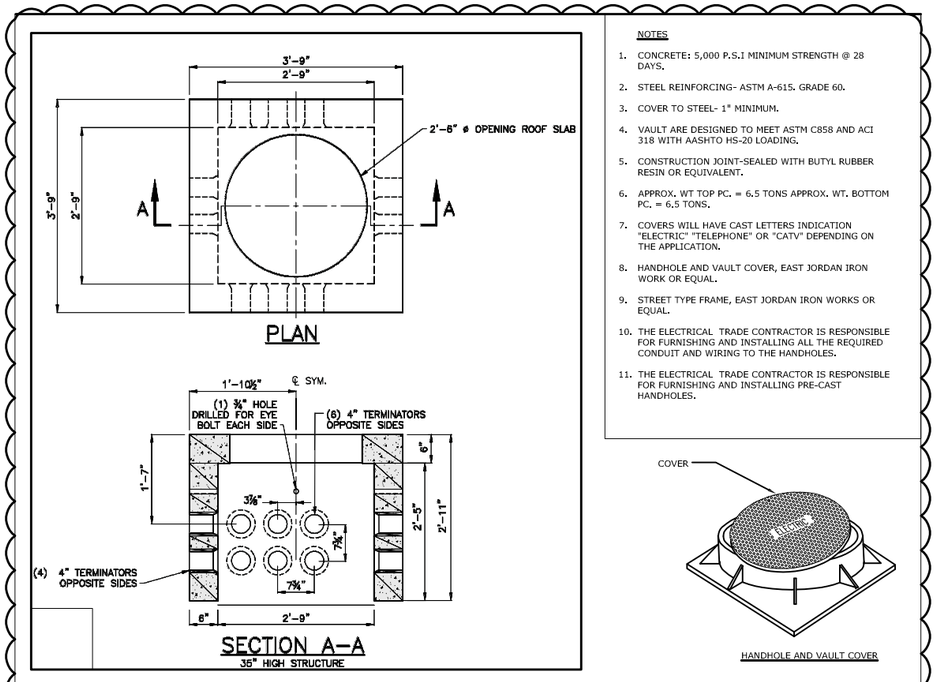
SHEET REF. NO.
E7.3

DATE:
2/20/19

SCALE:
NTS

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-050



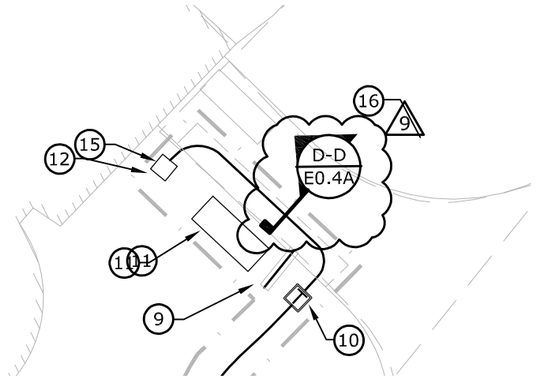
NOTES

1. CONCRETE: 5,000 P.S.I MINIMUM STRENGTH @ 28 DAYS.
2. STEEL REINFORCING- ASTM A-615. GRADE 60.
3. COVER TO STEEL- 1" MINIMUM.
4. VAULT ARE DESIGNED TO MEET ASTM C858 AND ACI 318 WITH AASHTO HS-20 LOADING.
5. CONSTRUCTION JOINT-SEALED WITH BUTYL RUBBER RESIN OR EQUIVALENT.
6. APPROX. WT TOP PC. = 6.5 TONS APPROX. WT. BOTTOM PC. = 6.5 TONS.
7. COVERS WILL HAVE CAST LETTERS INDICATION "ELECTRIC" "TELEPHONE" OR "CATV" DEPENDING ON THE APPLICATION.
8. HANDHOLE AND VAULT COVER, EAST JORDAN IRON WORK OR EQUAL.
9. STREET TYPE FRAME, EAST JORDAN IRON WORKS OR EQUAL.
10. THE ELECTRICAL TRADE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL THE REQUIRED CONDUIT AND WIRING TO THE HANDHOLES.
11. THE ELECTRICAL TRADE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING PRE-CAST HANDHOLES.

HANDHOLE AND VAULT COVER

3 FT. X 3 FT. UTILITY TELECOMMUNICATIONS/CATV HANDHOLE DETAIL | NTS

9



DRAWING NAME: Electrical Site Power Plan
SHEET REF. NO. E0.4A
DRAWING NUMBER: ADD-7 / E-051
DATE: 2/20/19
SCALE: AS NOTED
REFERENCE Addendum #7

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

LAMOUREUX PACCIO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 3
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

Panel: TCPP

New Panel

Location: SULLIVAN MIDDLE SCHOOL TENNIS COURT - EXTERIOR ENCLOSURE
Mounting: Recessed
Fed From: SULLIVAN MIDDLE SCHOOL - MD-1

Volts: 480/277 3PH
Phases: 3
Wires: 4

Mains Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				0	0								2
3	TENNIS COURT LIGHTING	20 A	3			0	0			3	20 A	TENNIS COURT LIGHTING	4
5								0	0				6
7				0	0								8
9	TENNIS COURT LIGHTING	20 A	3			0	0			3	20 A	TENNIS COURT LIGHTING	10
11								0	0				12
13				0	0								14
15	TENNIS COURT LIGHTING	20 A	3			0	0			3	20 A	TENNIS COURT LIGHTING	16
17								0	0				18
19	TENNIS COURT LCP	20 A	1	0	0					1	20 A	RECEPTACLE	20
21	EXTERIOR SIGN AND RECEPTACLE	20 A	1			0	0			1	20 A	CAMERA POWER	22
23	DUGOUT LIGHTING AND RECEPTACLE	20 A	1					0	0	1	20 A	CAMERA POWER	24
25	DUGOUT LIGHTING AND RECEPTACLE	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42

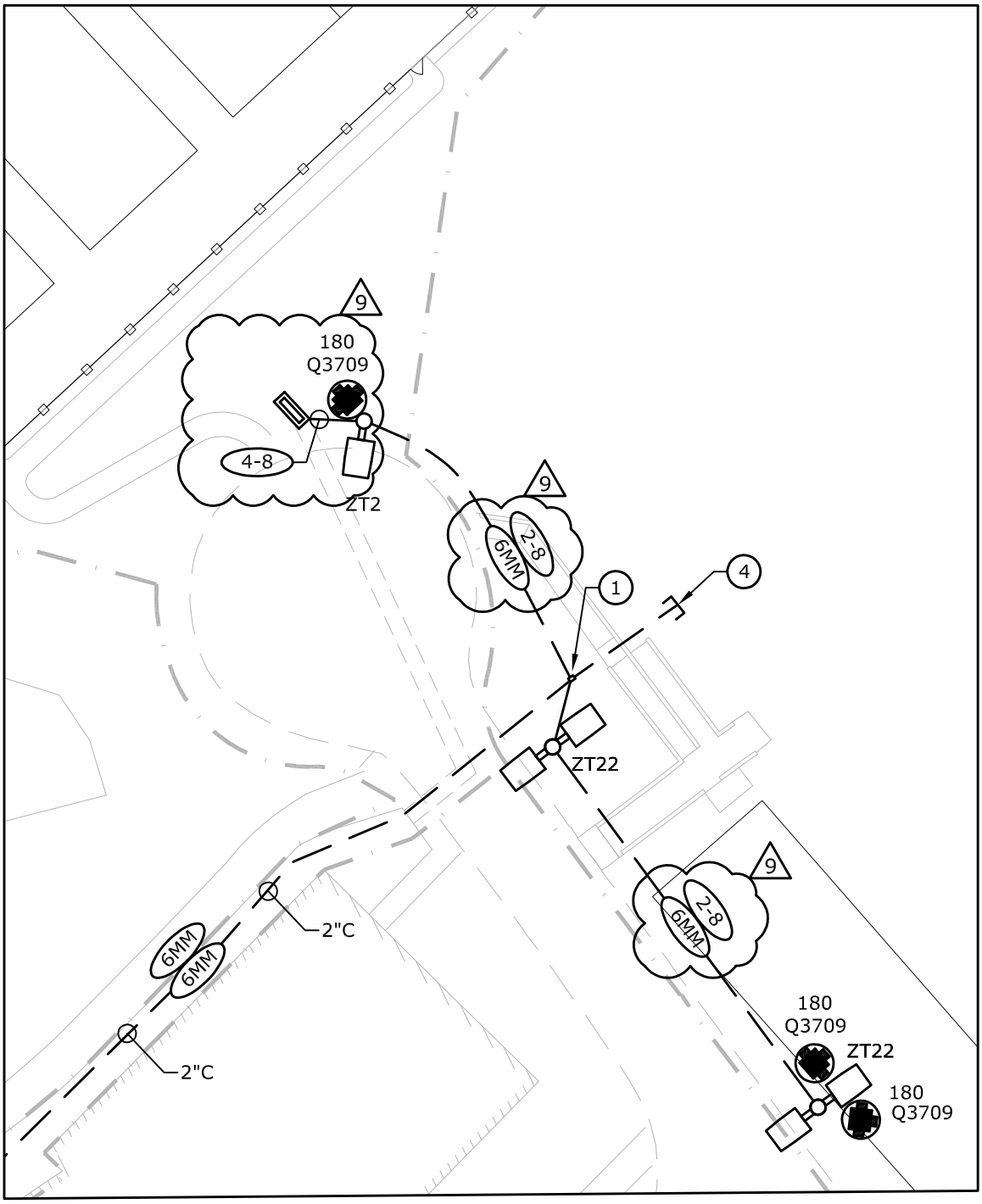
9

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE
South High Community School
170 Apricot Street, Worcester, MA 01603

DRAWING NAME: Panel TCPP
SHEET REF. NO. E0.3C
DATE: 2/20/19
SCALE: NTS
REFERENCE: Addendum #7
DRAWING NUMBER: ADD-7 / E-052



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Sullivan Exterior Camera Power

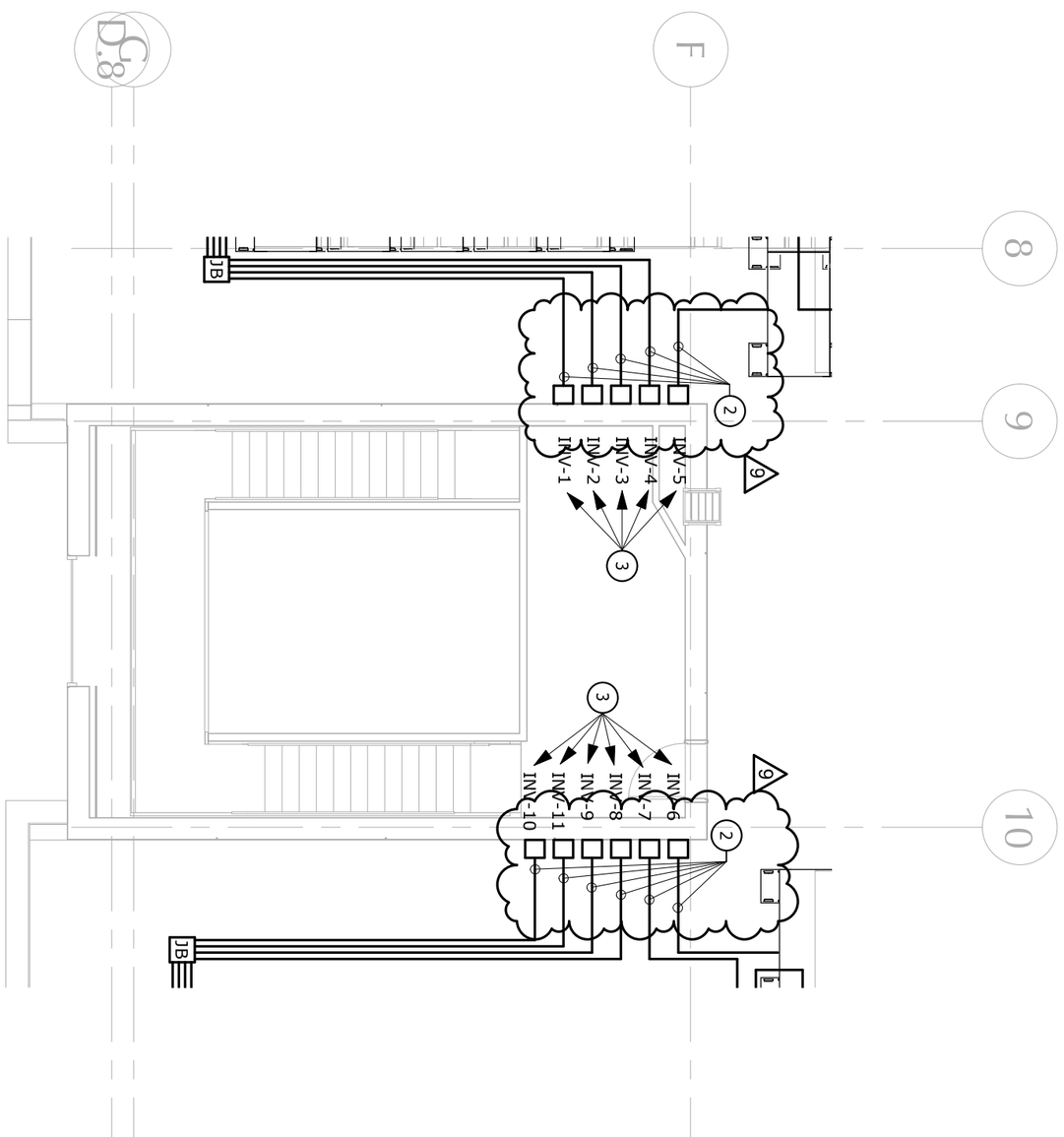
SHEET REF. NO.
E0.3D

DATE:
2/20/19

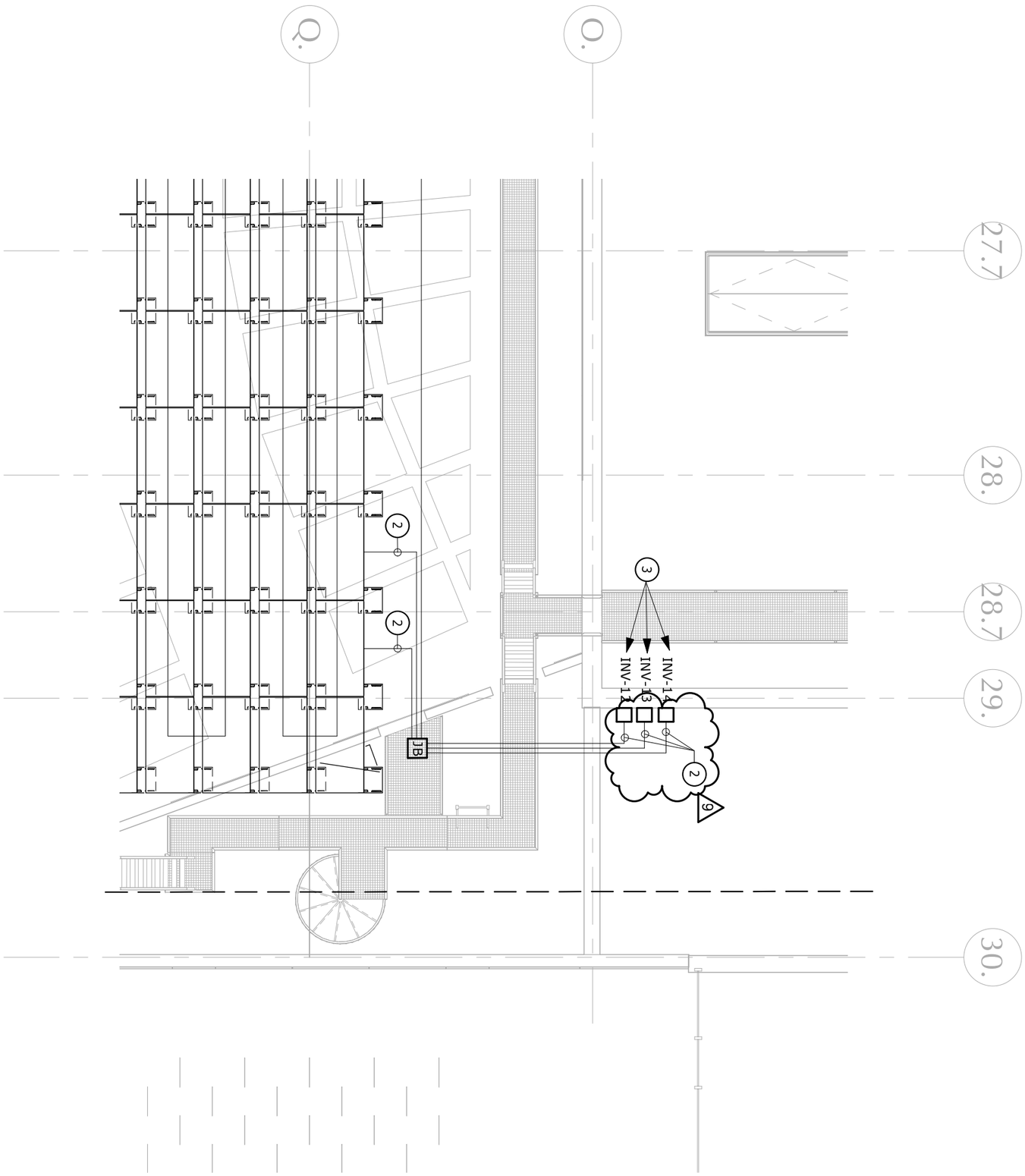
SCALE:
NTS

REFERENCE:
Addendum #7

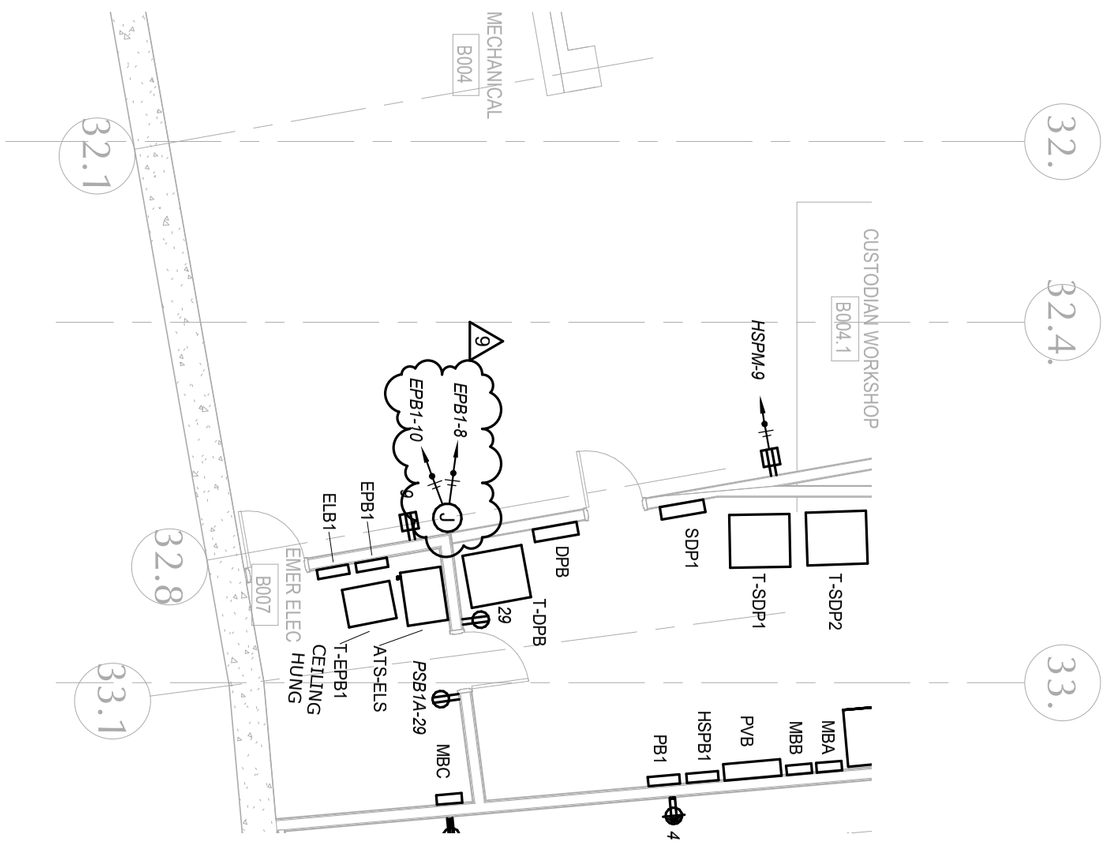
DRAWING NUMBER:
ADD-7
E-053



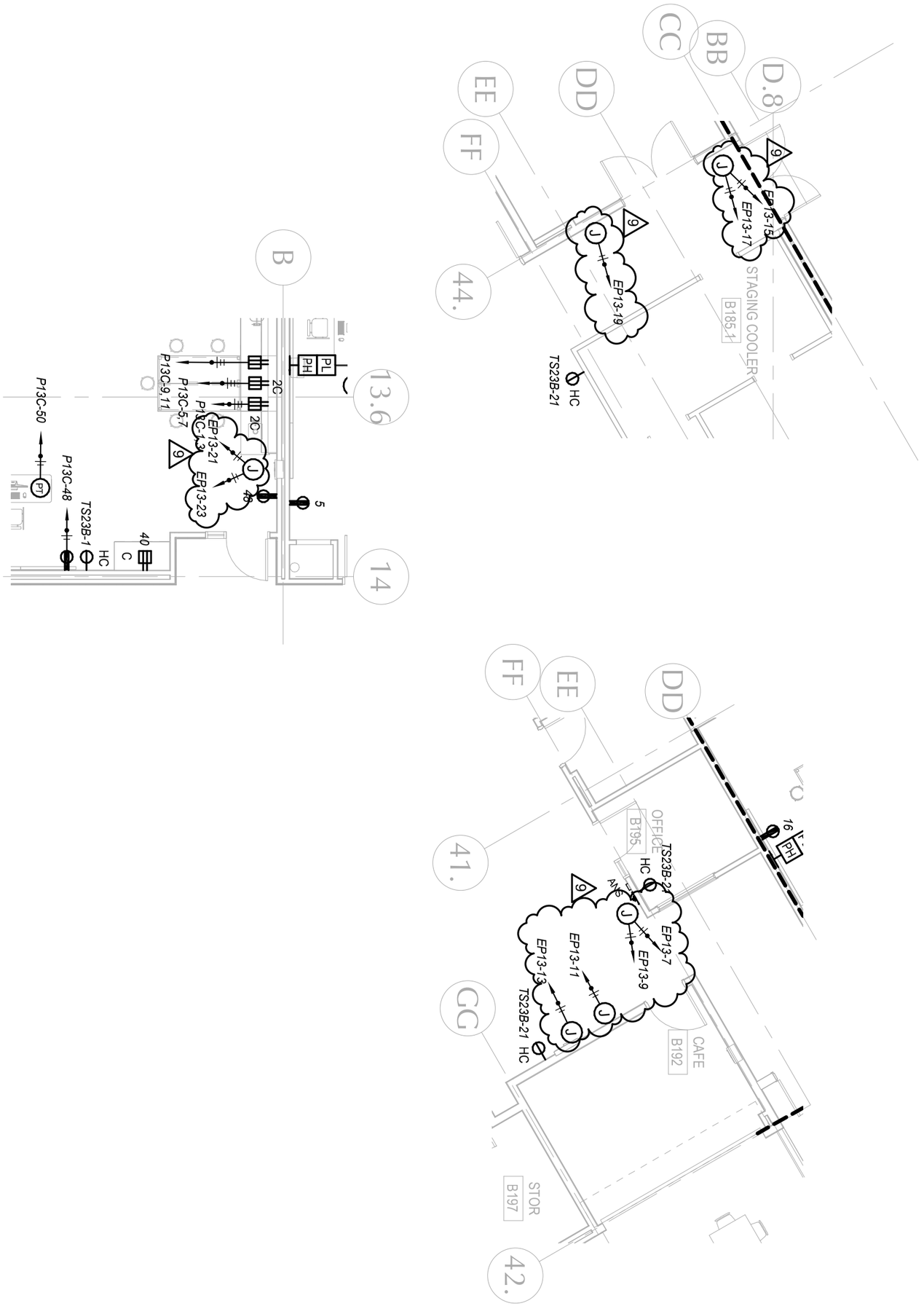
LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Roof Solar Power - Section A DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E6.2 DRAWING NUMBER: ADD-7 E-054



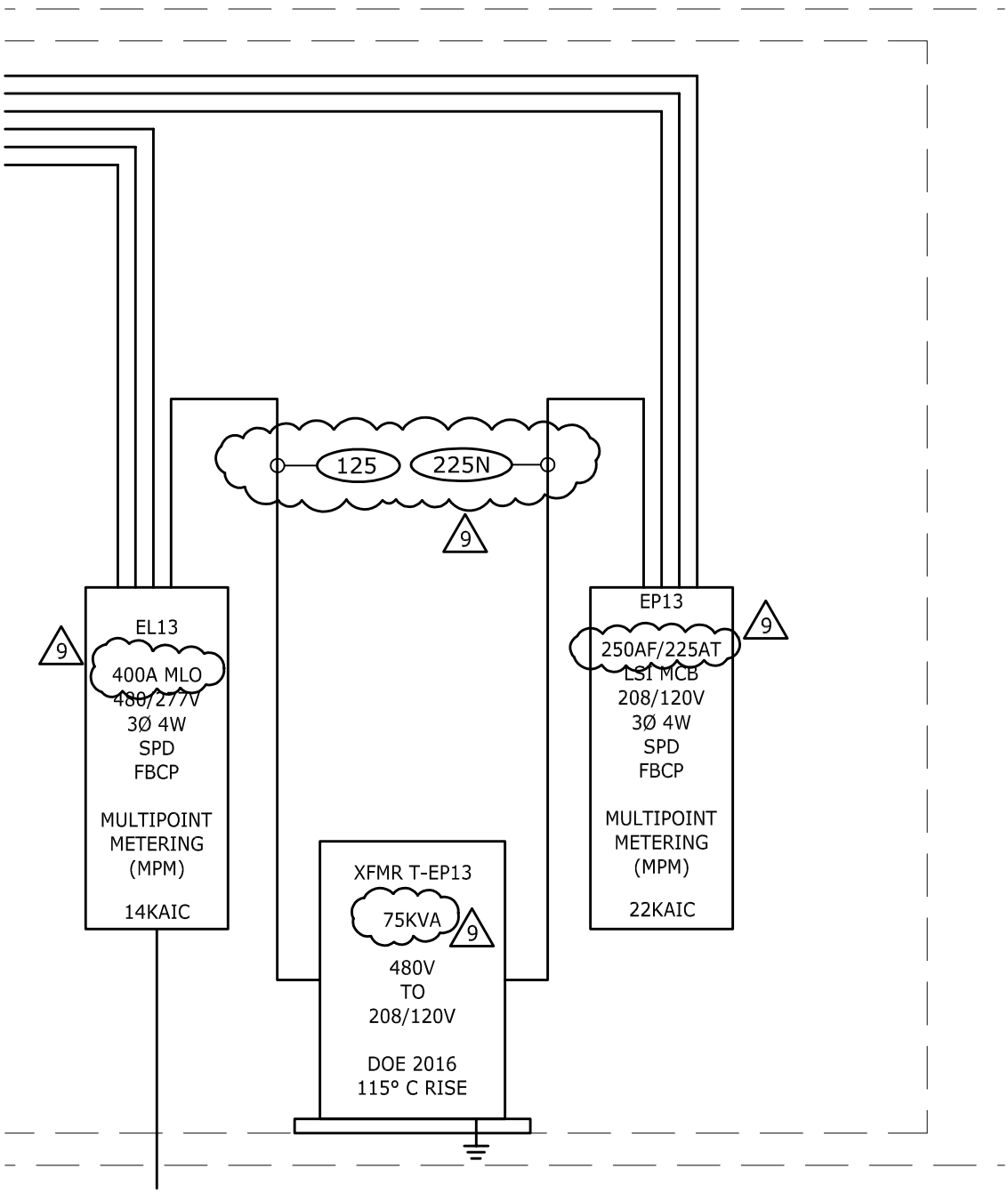
LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Roof Solar Power - Section B1 DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E6.4 DRAWING NUMBER: ADD-7 E-055



LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: GDP Power Ground Floor Mechanical Room DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.2 DRAWING NUMBER: ADD-7 E-056



LAMOUREUX PAGANO ASSOCIATES ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Ansul and GDP Power First Floor DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.4 DRAWING NUMBER: ADD-7 E-057



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Panel EL13, EP13 & XFMR T-EP13

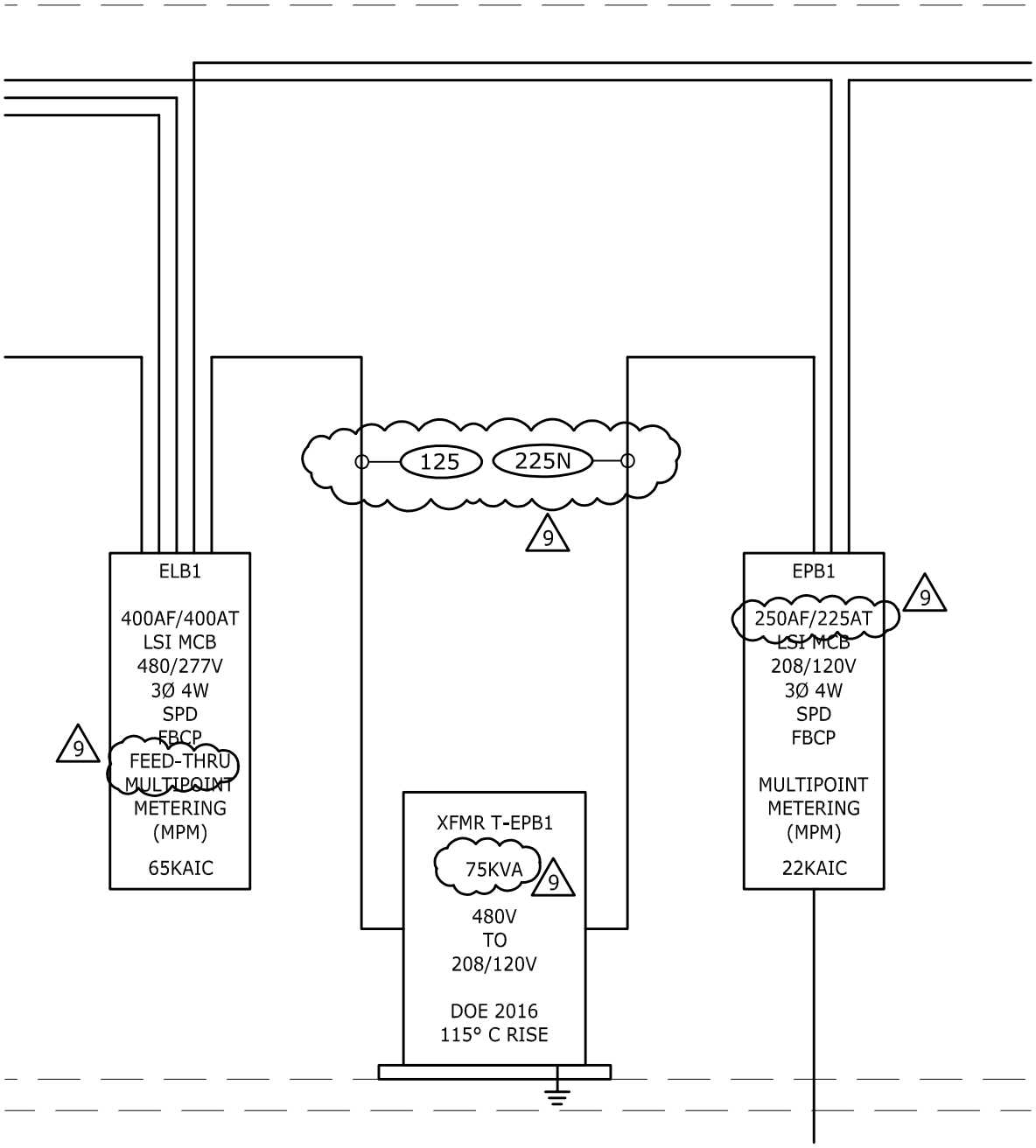
SHEET REF. NO.
E8.0E

DATE:
2/20/19

SCALE:
NTS

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-058



LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
Panel ELB1, EPB1 & XFMR T-EPB1

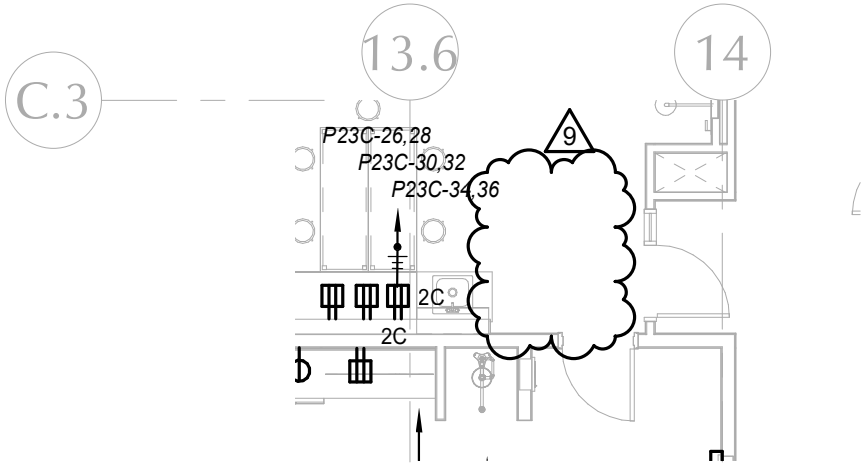
SHEET REF. NO.
E8.0F

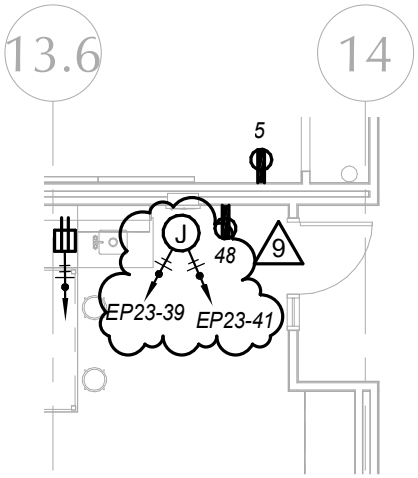
DATE:
2/20/19

SCALE:
NTS

REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-059





LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

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

DRAWING NAME:
Science Room GDP Second Floor

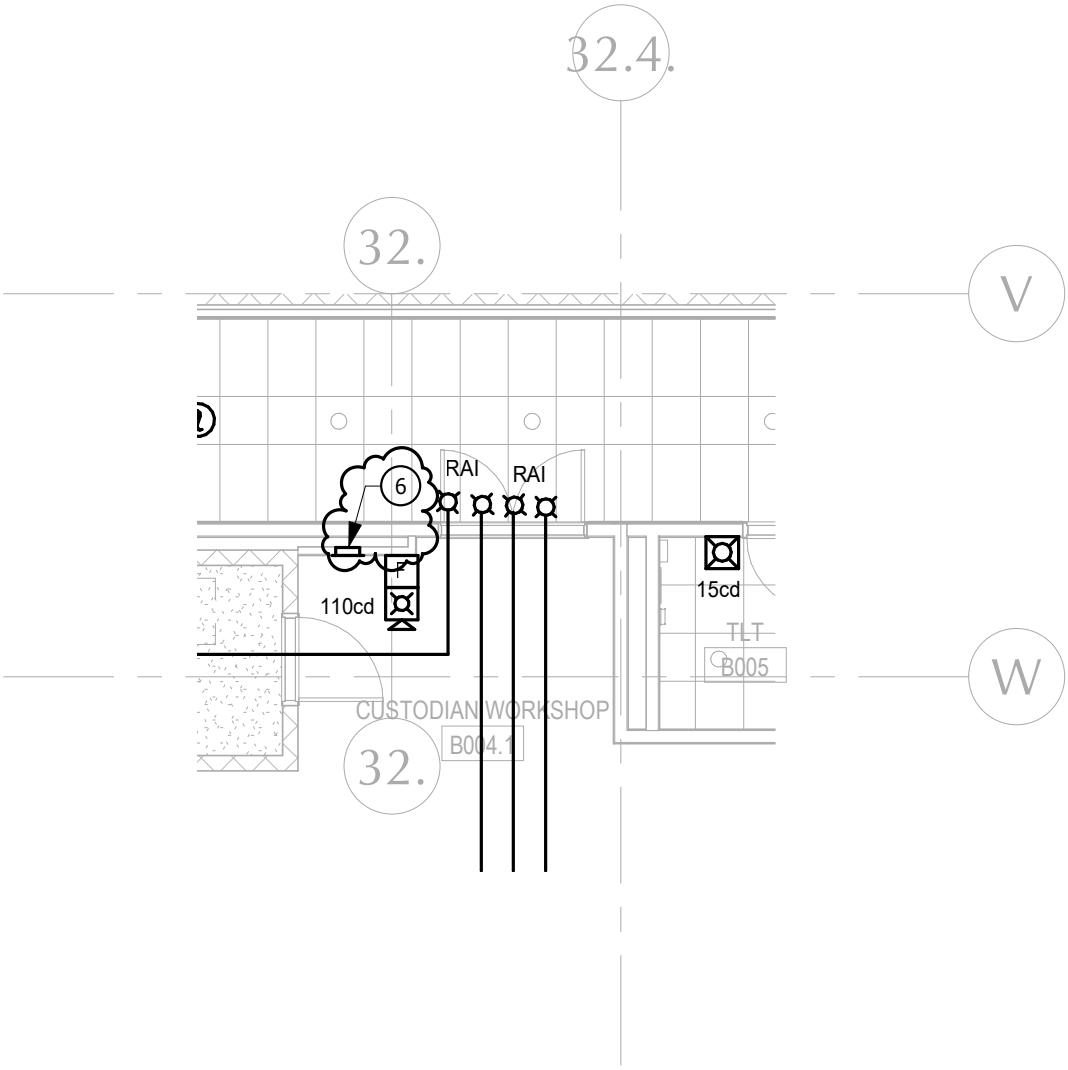
SHEET REF. NO.
E2.8

DATE:
02/20/19

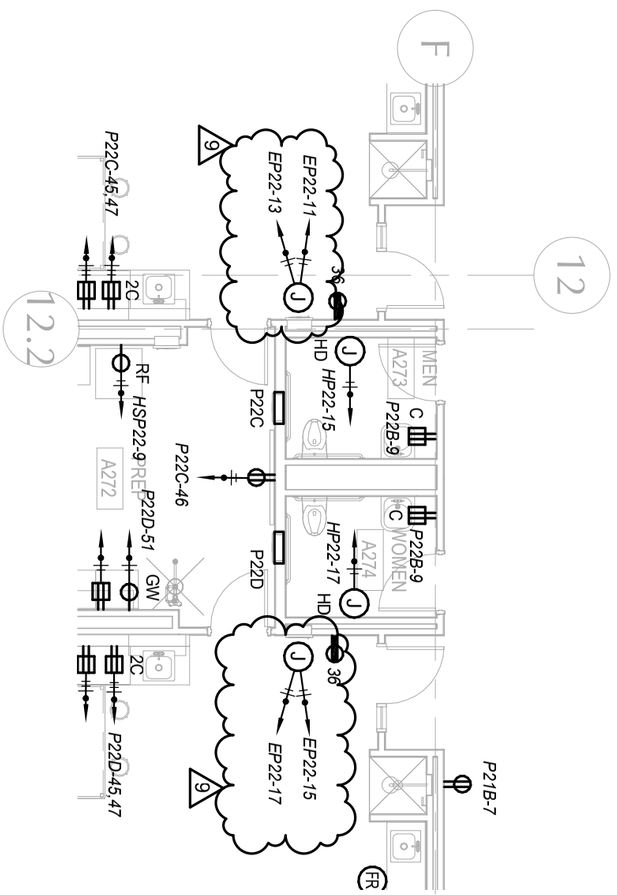
SCALE:
1/8" = 1'-0"

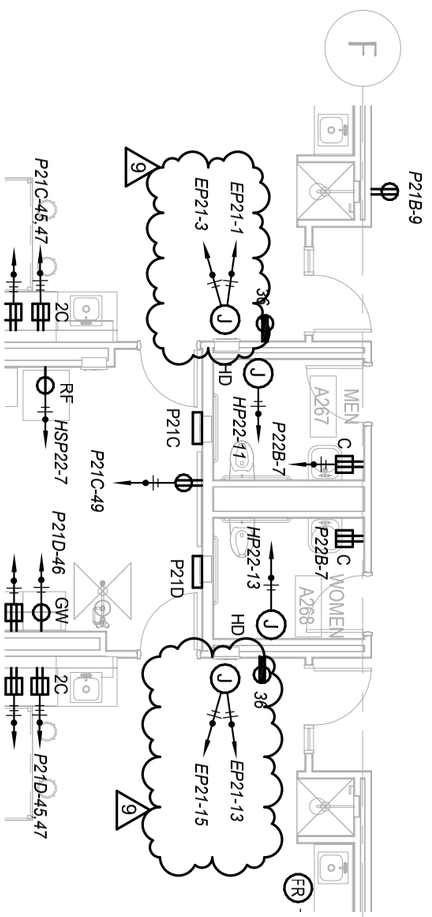
REFERENCE:
Addendum #7

DRAWING NUMBER:
ADD-7
E-060



LAMOUREUX PAGANO 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: Generator Annunciator Ground Floor DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E4.2 DRAWING NUMBER: ADD-7 E-061





LAMOUREUX PACANO ASSOCIATES, ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: GDP Power Science Rooms Second Floor DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.7 DRAWING NUMBER: ADD-7 E-062

DRAWING NAME:	Lighting - CAFE B192
DATE:	02/20/19
SCALE:	1/8" = 1'-0"
REFERENCE:	Addendum #7
SHEET REF. NO.	E1.4
DRAWING NUMBER:	ADD-7 / E-063

FINAL BID PACKAGE

PROJECT TITLE:

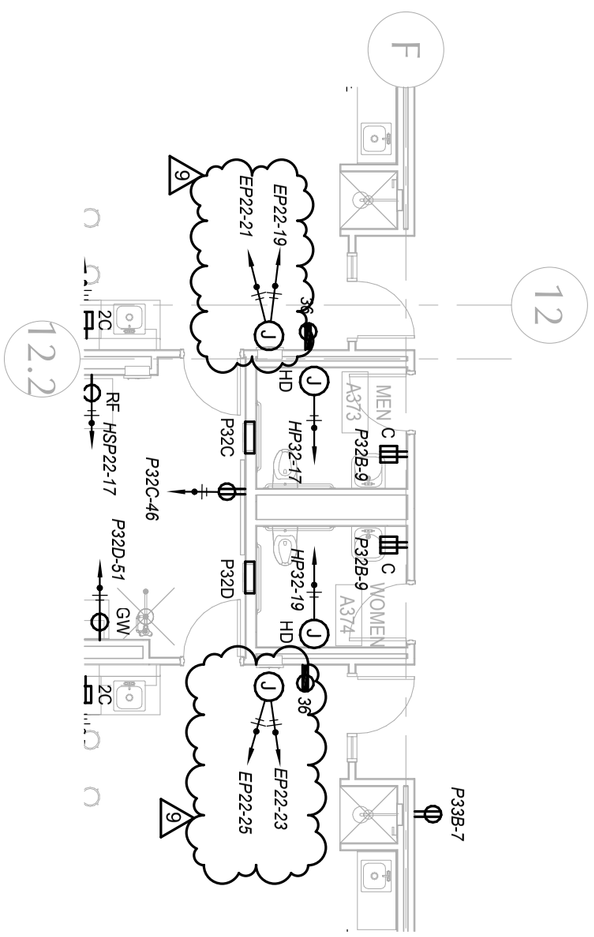
South High Community School

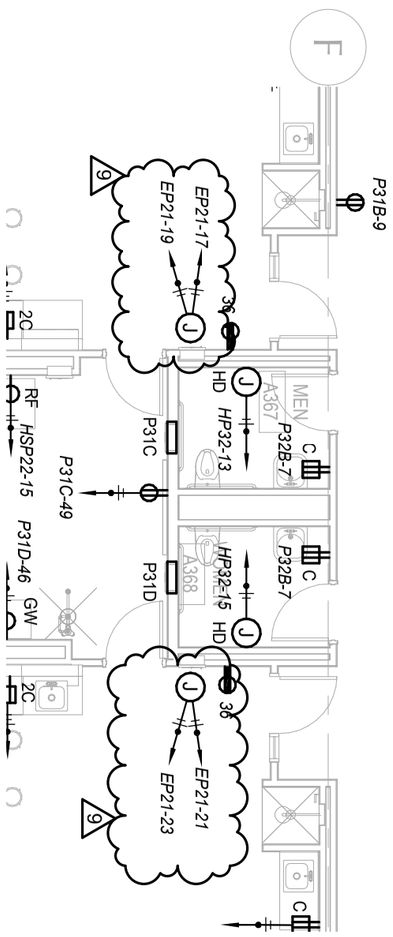
170 Apricot Street, Worcester, MA 01603

CLIENT INFORMATION:
Worcester Public Schools

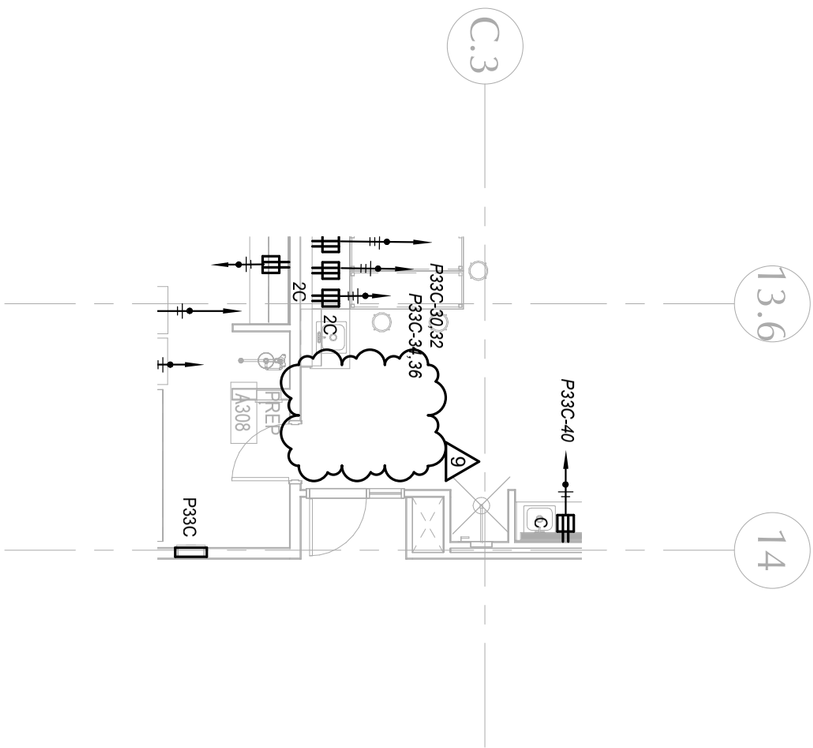
City of Worcester
Massachusetts, 01605

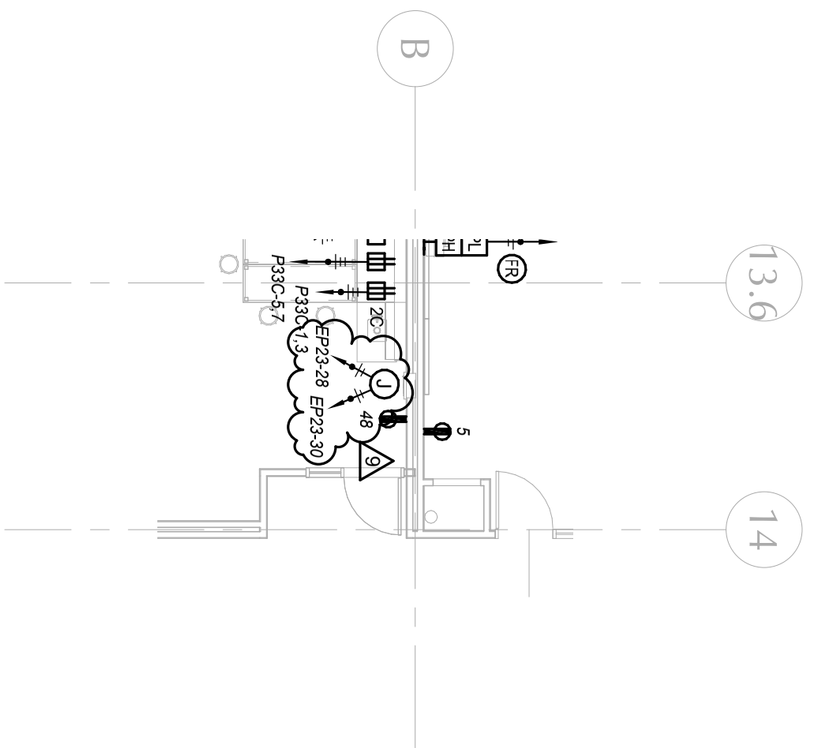
LAMOURELLE PAGANO ASSOCIATES ARCHITECTS
100 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



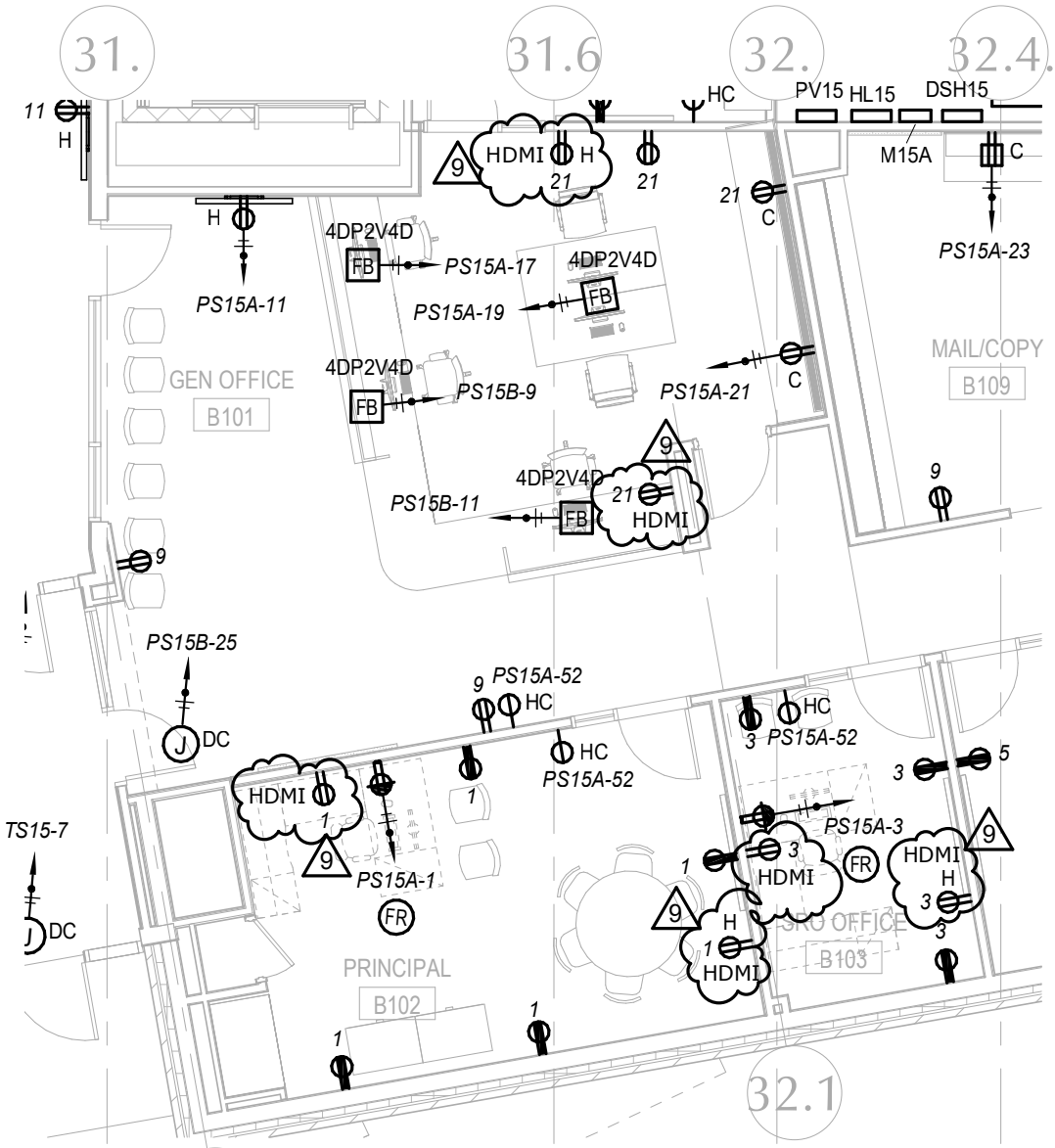


LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: GDP Power Science Rooms Third Floor DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.11 DRAWING NUMBER: ADD-7 E-064





LAMOUREUX PACANO ASSOCIATES ARCHITECTS 168 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: FINAL BID PACKAGE South High Community School 170 Apricot Street, Worcester, MA 01603	DRAWING NAME: GDP Power Science Room Third Floor DATE: 02/20/19 SCALE: 1/8" = 1'-0" REFERENCE: Addendum #7	SHEET REF. NO. E2.12 DRAWING NUMBER: ADD-7 E-065



NOTE:
1. HDMI DUPLEX RECEPTACLE: HUBBLE AVPS15XX; 5V DC OUTPUT SHALL POWER THE HDMI OUTLET

2. VERYIFY LOCATION/HEIGHT OF DEVICES WITH THE ARCHITECT/OWNER PRIOR TO ROUGH IN

LAMOUREUX PAGANO 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:
FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

DRAWING NAME:
SECURITY WORKSTATION / SCREEN OUTLETS

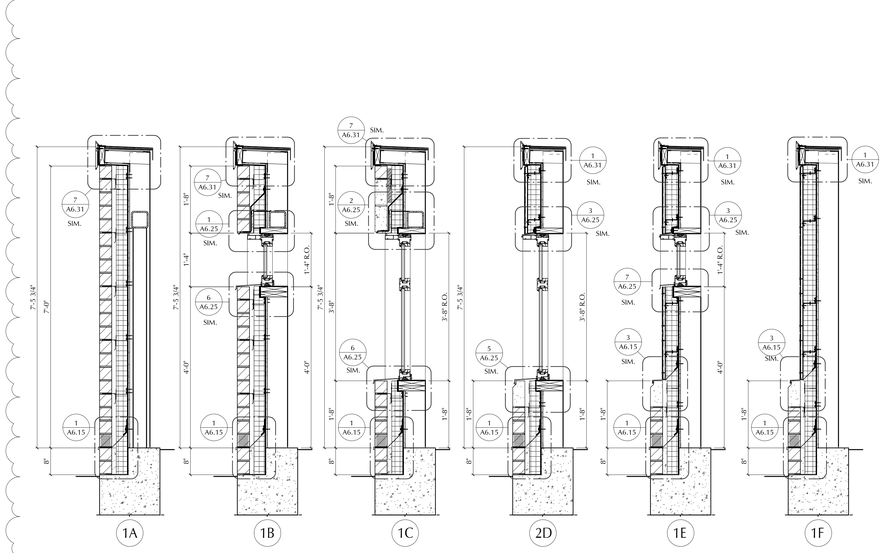
SHEET REF. NO.
E2.6

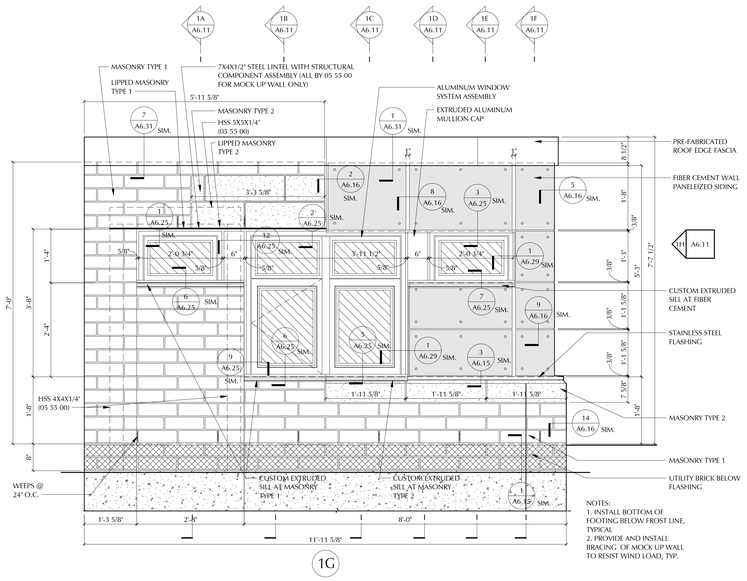
DATE:
02/19/19

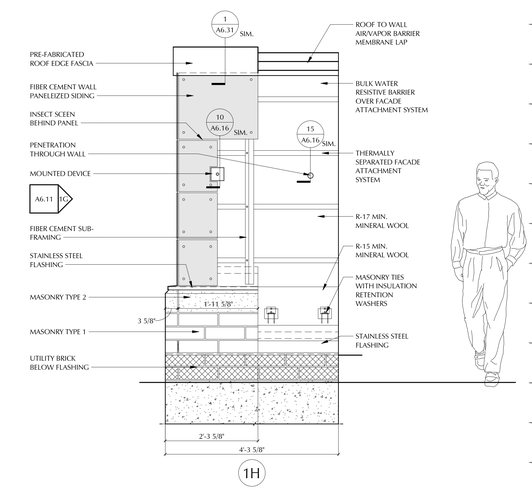
SCALE:
1/8" = 1'-0"

REFERENCE:
Addendum #7

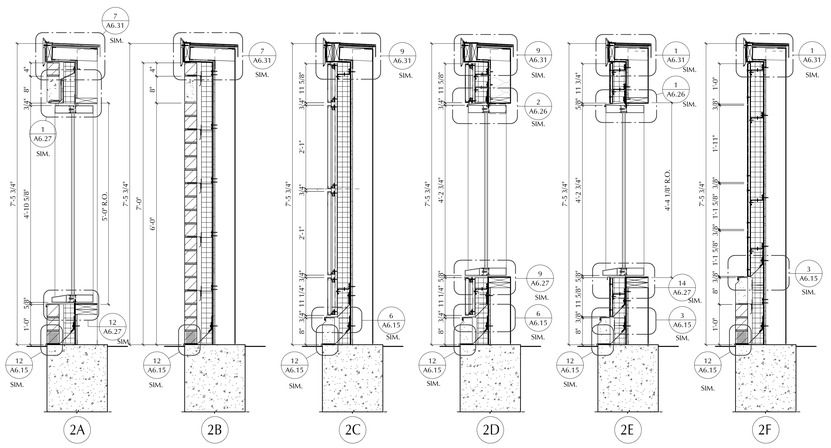
DRAWING NUMBER:
ADD-7
E-066

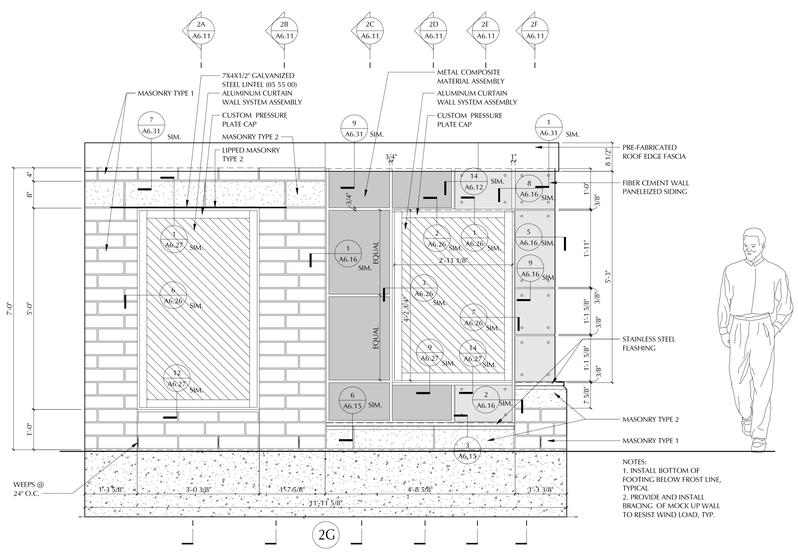




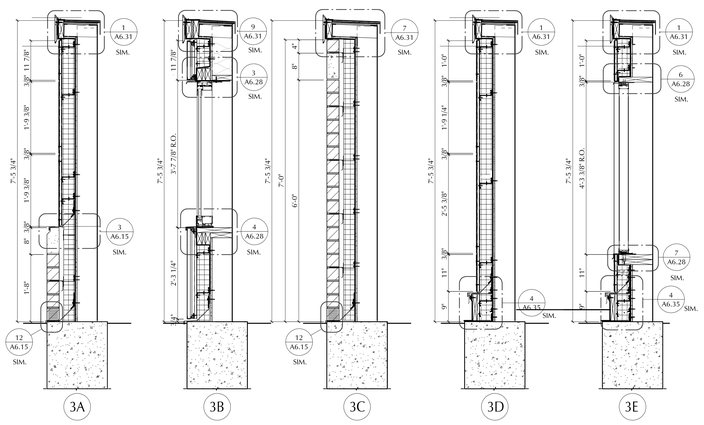


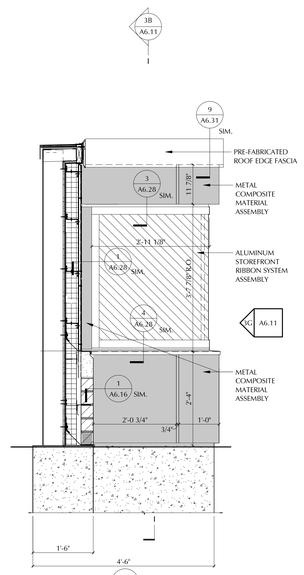
1 A6.11 Mock Up Wall with Windows
Scale: 3/4" = 1'-0"

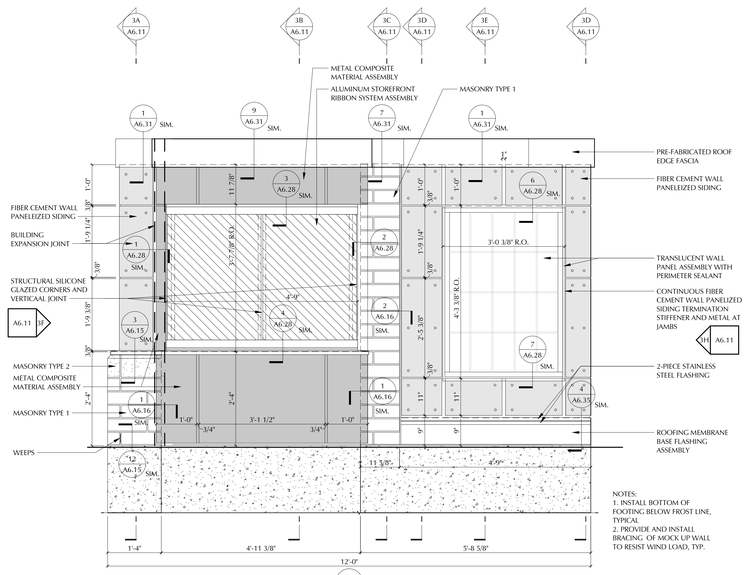


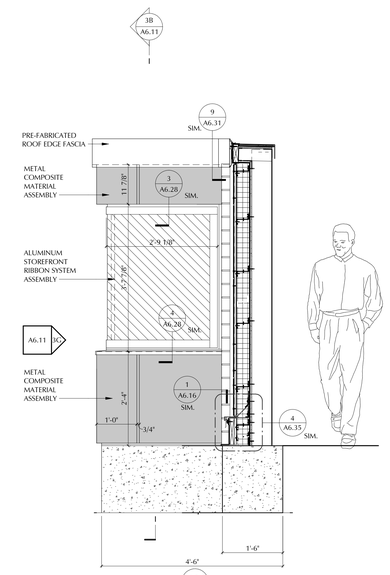


2 A6.11 Mock Up Wall with Curtain Wall
Scale: 3/4" = 1'-0"









3 A6.11 Mock Up Wall with Storefront and Translucent Wall Panels
Scale: 3/4" = 1'-0"

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

MEMBER OF
THE AMERICAN INSTITUTE OF ARCHITECTS

CONSULTANT

OWNER

Worcester Public Schools

Worcester, MA

Project North

PROJECT

FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Mock-Up Wall

Key Plan

BUILDING A
BUILDING B
A
B1
B2
AB

REVISIONS

No.	Description	Date
9	Addendum #7	2/20/19

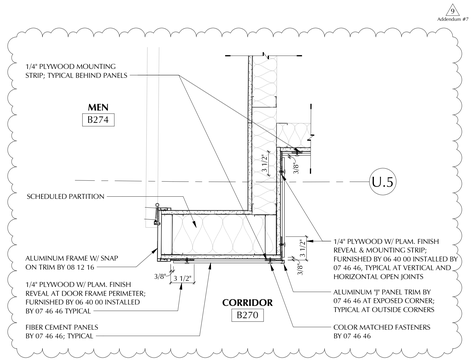
FILE:

DWN. BY: Author | JOB NO: #1611

CKD. BY: Checker | SCALE: 3/4" = 1'-0"

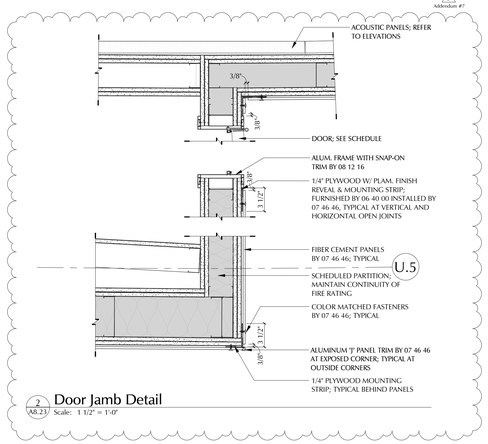
DATE: January 31, 2019

A6.11



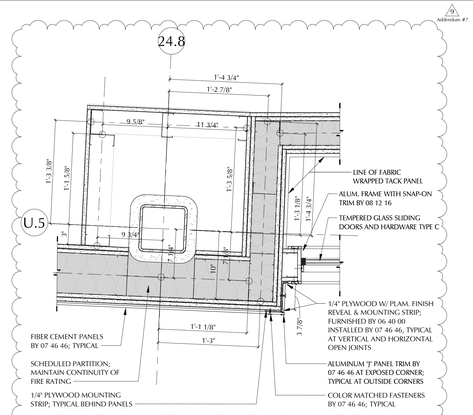
1 A8.23 Scale: 1 1/2" = 1'-0"

Typical Interior Fiber Cement Jamb & Corners Details



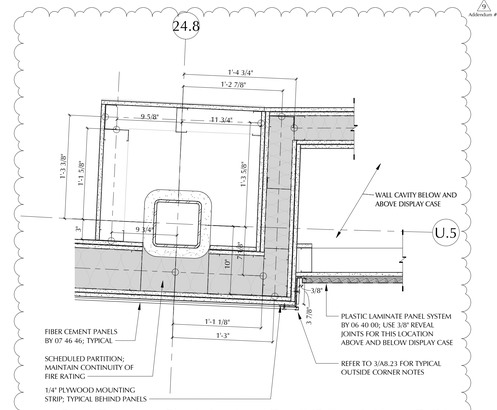
2 A8.23 Scale: 1 1/2" = 1'-0"

Door Jamb Detail



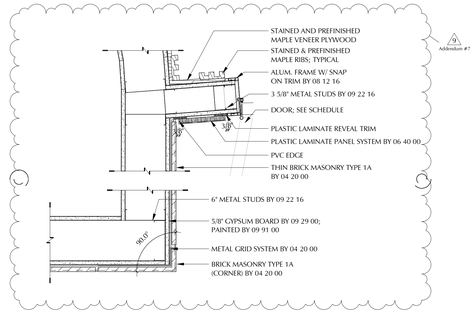
3 A8.23 Scale: 1 1/2" = 1'-0"

Fiber Cement to Display Case Detail (4'-0" A.F.F.)



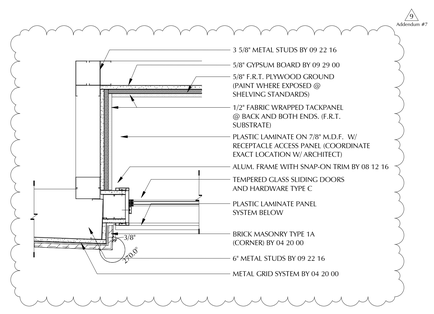
4 A8.23 Scale: 1 1/2" = 1'-0"

Fiber Cement to Plastic Laminate Detail (Below & Above D.C.)



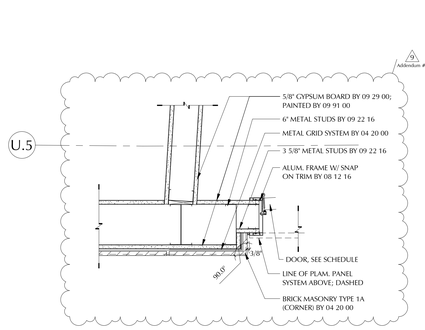
5 A8.23 Scale: 1 1/2" = 1'-0"

Typical First Floor MT6 Corner Detail



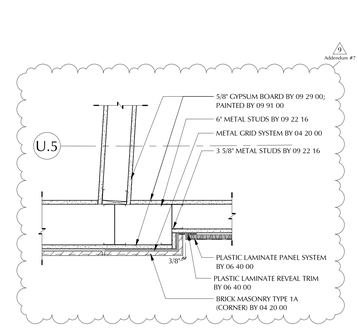
6 A8.23 Scale: 1 1/2" = 1'-0"

Auditorium Lobby Display Case Detail



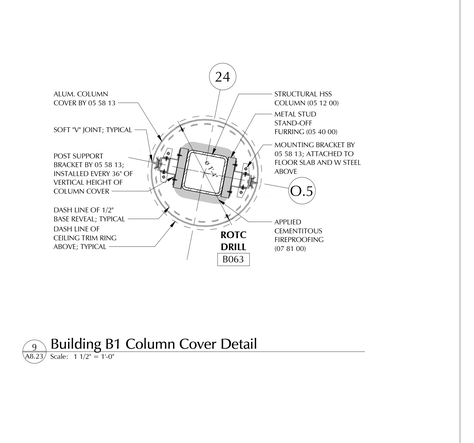
7 A8.23 Scale: 1 1/2" = 1'-0"

Typical Lobby Door Jamb Detail (Low)



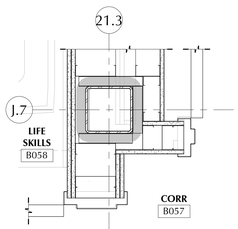
8 A8.23 Scale: 1 1/2" = 1'-0"

Typical Lobby Door Jamb Detail (High)



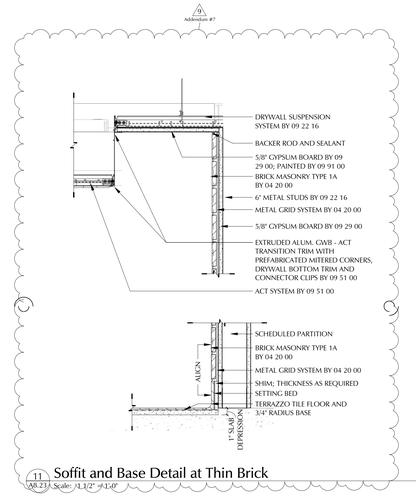
9 A8.23 Scale: 1 1/2" = 1'-0"

Building B1 Column Cover Detail



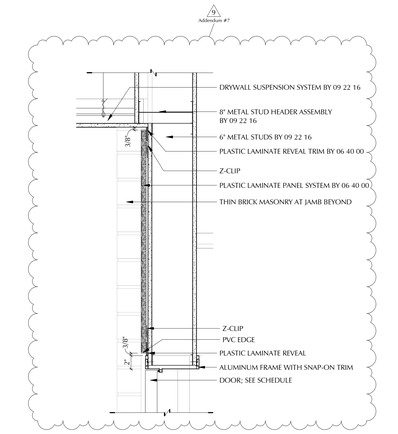
10 A8.23 Scale: 1 1/2" = 1'-0"

Building B1 Column Detail at J.7 & 21.3



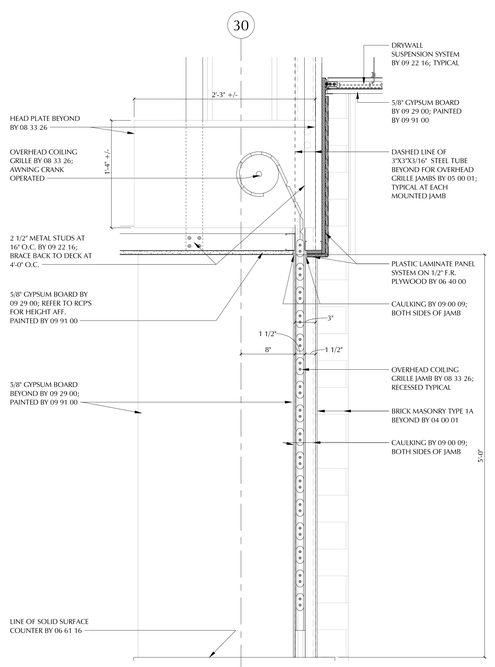
11 A8.23 Scale: 1 1/2" = 1'-0"

Soffit and Base Detail at Thin Brick



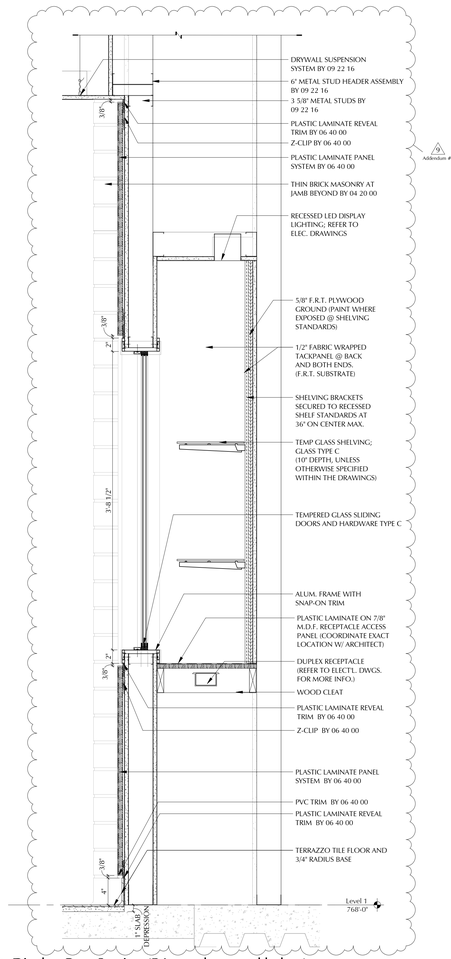
12 A8.23 Scale: 1 1/2" = 1'-0"

Soffit Detail at P. Lam. Panels



13 A8.23 Scale: 1 1/2" = 1'-0"

Room B171 Overhead Grille Detail



14 A8.23 Scale: 1 1/2" = 1'-0"

Display Case Section (P.Lam. above and below)

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

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CONSULTANT

OWNER

Worcester Public Schools

Worcester, MA

Project North

PROJECT

FINAL BID PACKAGE

South High Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Interior Details Building B1 - Corridor B170 & B270

9 Addendum #7

Key Plan

REVISIONS

No.	Description	Date
9	Addendum #7	2/20/19

FILE:

DWN. BY: Author | JOB NO: #1611

CKD. BY: Checker | SCALE: 1 1/2" = 1'-0"

DATE: January 31, 2019

A8.23

WIRING DEVICES

GENERAL NOTE: COORDINATE EXACT LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL ELEVATION PLANS PRIOR TO ROUGH-IN

- SINGLE RECEPTACLE, WALL MOUNTED

  U DENOTES OUTLET MOUNTED UNDER COUNTER
  C DENOTES OUTLET MOUNTED ABOVE COUNTER
  RF DENOTES OUTLET FOR REFRIGERATOR
  HC DENOTES OUTLET FOR CLOCK
  IM DENOTES OUTLET FOR ICE MAKER
  GW DENOTES OUTLET FOR GLASS WASHER
  GC DENOTES GOGGLE CABINET
  MW DENOTES MICROWAVE

- DUPLEX RECEPTACLE, WALL MOUNTED, COORDINATE HEIGHT AND LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN

  U DENOTES OUTLET MOUNTED UNDER COUNTER
  C DENOTES OUTLET MOUNTED ABOVE COUNTER
  H DENOTES MOUNTED AT CUSTOM HEIGHT PER ARCHITECT

- DUPLEX RECEPTACLE, WALL MOUNTED,DUAL CONTROLLED, COORDINATE HEIGHT AND LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN

  U DENOTES OUTLET MOUNTED UNDER COUNTER
  C DENOTES OUTLET MOUNTED ABOVE COUNTER

- DUPLEX RECEPTACLE, CEILING MOUNTED, COORDINATE EXACT LOCATION IN THE FIELD

  D DENOTES DROP DOWN CONVENIENCE OUTLET

CR - CORD REEL, CEILING MOUNTED, COORDINATE EXACT LOCATION IN THE FIELD

- GFCI DUPLEX RECEPTACLE, WALL MOUNTED

  C DENOTES OUTLET MOUNTED ABOVE COUNTER
  W DENOTES OUTLET FOR WASHING MACHINE
  M DENOTES OUTLET FOR MICROWAVE
  DW DENOTES OUTLET FOR DISH WASHER
  2C DENOTES 2-CIRCUITS, TOP AND BOTTOM HALF ON SEPARATE CIRCUITS

- SINGLE GFCI RECEPTACLE, WALL MOUNTED

- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED

  C DENOTES OUTLET MOUNTED ABOVE COUNTER

- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED DUAL CONTROLLED

- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED, EACH WITH ONE TYPE A AND ONE TYPE C USB CHARGING PORT

- DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED COORDINATE EXACT LOCATION IN THE FIELD

D - NEMA 14-30R RECEPTACLE COORDINATE NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION FURNISH AND INSTALL #10 AWG WIRES

R - NEMA 14-50R RECEPTACLE COORDINATE NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION FURNISH AND INSTALL #6 AWG WIRES

- SPECIAL PURPOSE RECEPTACLE, SEE MANUFACTURER'S SPECIFICATION FOR NEMA CONFIGURATION AND WIRE SIZE. SIZE WIRES BASED ON CIRCUIT BREAKER SIZE UNLESS NOTED OTHERWISE

L5-15 - DENOTES NEMA L5-15 (20A-1P) RECEPTACLE
FURNISH AND INSTALL #10 AWG WIRES & GROUND

L14-20 - NEMA L14-20 (20A-1P) RECEPTACLE
FURNISH AND INSTALL #10 AWG WIRES & GROUND

L52 - NEMA L5-20R (20A-1P) RECEPTACLE
FURNISH AND INSTALL #10 AWG WIRES & GROUND

L53 - NEMA L5-30R (30A-1P) RECEPTACLE
FURNISH AND INSTALL #10 AWG WIRES & GROUND

L62 - NEMA L6-20R (20A-2P) RECEPTACLE
FURNISH AND INSTALL #10 AWG WIRES & GROUND

L63 - NEMA L6-30R (30A-2P) RECEPTACLE
FURNISH AND INSTALL #10 AWG WIRES & GROUND

PH - PROJECTOR OUTLET, MOUNTED HIGH, HEIGHT PER ARCHITECTURAL ELEVATION PLANS:
PROJECT LONG THROW DIGITAL PROJECTOR.
PROVIDE DATA OUTLET WITH (2) DATA JACKS AND WITH CATEGORY 6A CABLES
PROVIDE 2-GANG BOX WITH 1-1/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING WITH PULL STRING AND BUSHING FOR AV OUTLET
(3)

PL - PROJECTOR OUTLET MOUNTED AT 18" AFF:
PROVIDE (2) DUAL CONTROLLED DUPLEX RECEPTACLE WITH (2) USB PORTS.
PROVIDE DATA OUTLET WITH (2) DATA JACKS AND WITH CATEGORY 6A CABLES
PROVIDE 2-GANG BOX WITH 1-1/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING WITH PULL STRING AND BUSHING FOR AV OUTLET
(3)

$ - SINGLE POLE SWITCH

$KP - KEYED UP/DN SWITCH FOR PROJECTION SCREEN

$K - (1) KEYED SWITCH
2-GANG BOX WITH SINGLE KEYED SWITCH COVER

$M - DUAL-TECH OCCUPANCY SENSOR, WALL MOUNTED

$3 - THREE-WAY SWITCH

- MULTI-TECH, MULTI-MODE VACANCY/OCCUPANCY SENSOR, WITH ISOLATED RELAYS FOR BAS AND HVAC SYSTEMS. CEILING MOUNTED. TITLE 24 COMPLIANT WITH MULTI-MODES. BASIS OF DESIGN: COOPER OAC-DT-2000-R. IN AUTOMATIC ON MODE, THE LIGHTS TURN ON WHEN A PERSON ENTERS THE ROOM. IN MANUAL ON MODE (-R MODEL ONLY), THE LIGHTS ARE TURNED ON BY ACTIVATING A MOMENTARY SWITCH THAT IS CONNECTED TO THE SENSOR. PROVIDE WITH MOMENTARY SWITCHES AND SWITCHPACKS.
IN RESTROOMS/TOILETS/BATHROOMS PROGRAM AS AUTOMATIC ON MODE (OCCUPANCY SENSOR).
ALL OTHER SPACES PROGRAM AS MANUAL ON MODE (VACANCY SENSOR).

AUDIOVISUAL DEVICES

GENERAL NOTE:

1. COORDINATE EXACT LOCATION OF ALL AUDIOVISUAL DEVICES WITH AUDIOVISUAL PLANS, ARCHITECTURAL ELEVATION PLANS AND THE AUDIOVISUAL SUBCONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE AUDIOVISUAL DEVICES NOTED BELOW UNLESS NOTED OTHERWISE.
3. FOR ALL AUDIOVISUAL DEVICES NOTED BELOW, PROVIDE ASSOCIATED CONDUIT AND WIRING FOR FULL AND COMPLETE INSTALLATIONS.
4. SEE TELECOMMUNICATIONS LEGEND FOR VOICE/DATA ABBREVIATIONS AND CABLING REQUIREMENTS.

AV - DUPLEX RECEPTACLE

AV - CEILING MOUNTED DUPLEX RECEPTACLE

AV - TWIST-LOCK RECEPTACLE, NEMA TYPE L5-20

FB AV / FB1 - FLOOR BOX, FURNISHED BY AUDIOVISUAL SUBCONTRACTOR. SEE ABBREVIATIONS BELOW FOR COMMUNICATIONS CABLING REQUIREMENTS

AV xD - DATA OUTLET, WITH CABLING AS NOTED "xD" DENOTES QUANTITY OF DATA OUTLETS
(3)

AV xD - DATA OUTLET, WITH CABLING AS NOTED "xD" DENOTES QUANTITY OF DATA OUTLETS

PO AV - PROJECTOR SCREEN, FURNISHED BY OTHERS.

PK - PROJECTOR UP/DN SWITCH. FURNISHED BY AUDIOVISUAL SUBCONTRACTOR. PROVIDE WIRING TO PROJECTOR SCREEN.

RACK - RACK, FURNISHED BY AUDIOVISUAL SUBCONTRACTOR. DENOTES POWER OUTLETS SHOWN ARE TO BE MOUNTED AT RACK. LOCATE AS SHOWN ON AUDIOVISUAL PLANS.

FLOOR MOUNTED WIRING DEVICES

FB - FLOOR BOX

FT - POKE-THRU

FLOOR MOUNTED WIRING DEVICES ABBREVIATIONS:

2DP1V2D - DENOTES (2) DUPLEX RECEPTACLES, (1) VOICE AND (2) DATA JACKS WITH CATEGORY 6A CABLING

4DP2V4D - DENOTES (4) DUPLEX RECEPTACLES, (2) VOICE AND (4) DATA JACKS WITH CATEGORY 6A CABLING

4DP4D - DENOTES (4) DUPLEX RECEPTACLES, (4) DATA JACKS AND CATEGORY 6A CABLING

4SP - DENOTES (4) SIMPLEX RECEPTACLES

1DP - DENOTES (1) DUPLEX RECEPTACLE
(1)

NOTES FOR FLOOR MOUNTED DEVICES:

1. ALL FLOOR MOUNTED DEVICES ON SLAB ON GRADE SHALL BE OF FLOOR BOX TYPE. COORDINATE SLAB SAW CUT WITH THE ARCHITECT.
2. ALL FLOOR MOUNTED DEVICES NOT ON GRADE LEVEL SHALL BE OF THE POKE-THRU TYPE UNLESS NOTED OTHERWISE. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
3. COORDINATE LOCATIONS OF ALL FLOOR BOXES AND POKE-THRUS PRIOR TO ROUGH-IN AND CONCRETE POUR WITH THE ARCHITECT.
4. ALL FLOOR BOXES AND POKE-THRUS SHALL BE SET INTO THE FLOOR FLUSH, UNLESS NOTED OTHERWISE.
5. REFER TO FLOOR MOUNTED WIRING DEVICES ABBREVIATIONS FOR DUPLEX RECEPTACLE, AV OUTLET, MICROPHONE JACK AND DATA DROP QUANTITIES.
6. SEE TELECOMMUNICATIONS LEGEND FOR VOICE/DATA ABBREVIATIONS AND CABLING REQUIREMENTS.
7. PROVIDE 2-HOUR RATED FLOOR BOXES AND POKE-THRUS WHERE CODE DRAWINGS SPECIFY 2-HOUR RATING. REFER TO CODE PLANS.

EQUIPMENT

- ELECTRICAL PANEL, SURFACE MTD.

- ELECTRICAL PANEL, FLUSH MTD.

30AS / 20AF - FUSED DISCONNECT SWITCH "30AS" DENOTES 30A SWITCH "20AF" DENOTES 20A FUSE

- UNFUSED DISCONNECT SWITCH

J - JUNCTION BOX

SR DENOTES SPEECH REINFORCEMENT
DC DENOTES DOOR CONTROL
OV DENOTES WALL OVEN, FURNISH AND INSTALL 3-10 AWG & 1-10 AWG GND
HD DENOTES HAND DRYER
DF DENOTES DRINKING FOUNTAIN
CT DENOTES COOKTOP, FURNISH AND INSTALL 3-8 AWG & 1-10 AWG GND
CDP DENOTES CO DETECTION PANEL
GDP DENOTES GAS DETECTION PANEL
NAC DENOTES FIRE ALARM NAC PANEL

$T - SAFETY DISCONNECT SNAP SWITCH, HORSE POWER RATED

M - MOTORIZED DAMPER (FURNISHED BY OTHERS)

FSD - FIRE/SMOKE DAMPER (FURNISHED BY OTHERS)

EPO F - EMERGENCY POWER SHUTOFF BUTTON (FURNISHED BY OTHERS). SEE TYPICAL WIRING DETAIL

EPO - EMERGENCY POWER SHUTOFF BUTTON (FURNISHED BY OTHERS). SEE TYPICAL WIRING DETAIL

PBS - PUSH BUTTON STATION. FURNISHED BY OTHERS

ACCESS CONTROL

AM - EXTERNAL CONTACT INPUT MODULE

C - DOOR CONTACT

CR - CARD READER

DO - DOOR OPERATOR

EL - ELECTRIC LOCK

HC - PUSH BUTTON FOR DOOR OPENER

RX - REQUEST TO EXIT

NOTES FOR ACCESS CONTROL / INTRUSION:

1. PROVIDE BOXES AND 3/4" CONDUIT STUBS ABOVE ACCESSIBLE CEILING FOR ALL ACCESS CONTROL DEVICES.
2. MULLION MOUNTED CARD READERS SHALL BE 4.6"L x 2.4"W x 1.4"H, SMALL PROFILE, WEATHERPROOF (FOR EXTERIOR APPLICATION), OR APPROVED EQUAL.
3. COORDINATE WITH ARCHITECT THE ELEVATION FOR VIDEO ENTRY STATION (VES) LOCATIONS RELATIVE TO DOORWAYS AND MOUNTING HARDWARE AND IF UNITS ARE TO BE RECESSED OR SURFACE MOUNTED. REQUEST AN ELEVATION OF CARD READERS, FIRE ALARM PULL STATIONS, ANNUNCIATOR PANELS AND WALL PLAQUES IN AND AROUND VESTIBULES FOR COORDINATION.

INTRUSION

MS - DUAL TECHNOLOGY MOTION DETECTOR, WALL MOUNTED.

MS - DUAL TECHNOLOGY MOTION DETECTOR, CEILING MOUNTED.

PN - PANIC BUTTON

SN - SIREN

KP - KEYPAD

ES - ELECTRIC STRIKE

WINDOW SHADE SYSTEM

$HS - SHADE CONTROL SWITCH. FURNISHED BY OTHERS

NOTES FOR WINDOW SHADE SYSTEM:

1. WINDOW SHADE SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL SUBCONTRACTOR AND FURNISHED BY OTHERS.
2. SEE TYPICAL WIRING DETAILS.

TELECOMMUNICATIONS

- VOICE/DATA OUTLET WITH ONE VOICE AND TWO DATA JACKS, WALL MOUNTED, WITH CATEGORY 6A CABLES AND PULL STRING
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

- DATA OUTLET WITH TWO DATA JACKS, WALL MOUNTED WITH CATEGORY 6A CABLES AND PULL STRING
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

AV - AV OUTLET, CEILING MOUNTED
2-GANG BOX WITH 1-1/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. PROVIDE WITH PULL STRING AND BUSHING

AV - AV OUTLET, WALL MOUNTED
2-GANG BOX WITH 1-1/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. PROVIDE WITH PULL STRING AND BUSHING

AV/H - AV OUTLET, HEIGHT PER ARCHITECTURAL ELEVATION PLANS
2-GANG BOX WITH 1-1/4" CONDUIT STUB ABOVE ACCESSIBLE CEILING. PROVIDE WITH PULL STRING AND BUSHING

DC - DOOR CONTROL, MOUNTED ABOVE CEILING
ONE DATA DROP WITH CATEGORY 6A CABLE
2-GANG BOX

- WIFI ACCESS POINT, MOUNTED ABOVE CEILING
TWO DATA DROPS WITH CATEGORY 6A CABLES
2-GANG BOX

- DATA OUTLET WITH ONE DATA JACK, WALL MOUNTED WITH CATEGORY 6A CABLES FOR CLOCKS
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

W - WALL PHONE OUTLET, WITH ONE VOICE JACK MOUNTED AT 54" AFF WITH CATEGORY 6A CABLE
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

A - ANALOG VOICE OUTLET WITH TWO VOICE JACKS WITH CATEGORY 6A UNSHIELDED CABLES, ANALOG LINE FROM TELEPHONE COMPANY. UNLESS OTHERWISE NOTED
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

- WIRE BASKET, 18"x4" MINIMUM
UNLESS OTHERWISE NOTED

TMGB - TELECOM MAIN GROUNDING BUS BAR

TGB - TELECOM GROUNDING BUS BAR

- INTERIOR CELLULAR SIGNAL BOOSTER

- EXTERIOR DIRECTIONAL CELLULAR SIGNAL BOOSTER

VOICE/DATA ABBREVIATIONS:

"1V/1D" - DENOTES ONE VOICE AND ONE DATA JACK
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"1V/2D" - DENOTES ONE VOICE AND TWO DATA JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"1V/3D" - DENOTES ONE VOICE AND THREE DATA JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING

"2V/2D" - DENOTES TWO VOICE AND TWO DATA JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING

"1D" - DENOTES ONE DATA JACK
WITH CATEGORY 6A CABLE
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"2D" - DENOTES TWO DATA JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"3D" - DENOTES THREE DATA JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"4D" - DENOTES FOUR DATA JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING

"1V" - DENOTES ONE VOICE JACK
WITH CATEGORY 6A CABLE
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"2V" - DENOTES TWO VOICE JACKS
WITH CATEGORY 6A CABLES
2-GANG BOX AND 1" CONDUIT STUB TO ACCESSIBLE CEILING

"H" - DENOTES MOUNTED AT CUSTOM HEIGHT AND LOCATION, COORDINATE WITH THE ARCHITECT

"CLK" - DENOTES DATA OUTLET FOR CLOCK

NOTES FOR TELECOMMUNICATIONS DEVICES:

1. VOICE/DATA OUTLETS SHALL BE PROVIDED WITH BOX AND CONDUIT STUBBED UP ABOVE THE CEILING (UNLESS OTHERWISE NOTED) AND WITH PULL STRING AND NYLON BUSHINGS AT CONDUIT STUBS, TO PREVENT DAMAGE TO CABLES WHEN PULLED. SIZE CONDUIT AS REQUIRED. MINIMUM CONDUIT SIZE SHALL BE 1".
2. MOUNT VOICE, DATA AND VIDEO OUTLETS A MAXIMUM OF 12" FROM A POWER OUTLET. COORDINATE LOCATIONS WITH ELECTRICAL DRAWINGS.
3. TERMINATE ALL VOICE/DATA CABLING IN VOICE/DATA RACKS.
4. REFER TO VOICE DATA ABBREVIATIONS FOR CABLE DROP QUANTITIES.
5. ALL EXPOSED VOICE/DATA/TV/AV CABLING SHALL BE INSTALLED IN CONDUIT.
6. THE DATA DROPS FOR ACCESS POINTS AT DROP CEILINGS, SHALL BE INSTALLED IN A BOX ATTACHED TO A CABLE WHIP ABOVE THE CEILING FOR FUTURE FLEXIBILITY IN LOCATING THE ACCESS POINT. AT HARD CEILINGS, THE DATA DROPS FOR ACCESS POINTS SHALL BE INSTALLED BELOW OR FLUSH WITH THE CEILING.
(3)

VIDEO SURVEILLANCE

- VANDAL PROOF, FIXED DOME CAMERA, INTERIOR CEILING MOUNTED

- VANDAL PROOF FIXED DOME CAMERA, INTERIOR WALL MOUNTED

- VANDAL PROOF, FIXED DOME CAMERA, EXTERIOR BRACKET MOUNTED

- VANDAL PROOF, FIXED DOME CAMERA, EXTERIOR CANOPY/CEILING MOUNTED

- VANDAL PROOF FIXED 360° DOME CAMERA, INTERIOR CEILING MOUNTED

- VANDAL PROOF FIXED 180° DOME CAMERA, INTERIOR CEILING MOUNTED

- VANDAL PROOF FIXED 180° DOME CAMERA, INTERIOR WALL MOUNTED

NOTES FOR VIDEO SURVEILLANCE DEVICES:

1. ALL EXTERIOR CAMERAS SHALL BE BUILDING OR POLE MOUNTED AND SHALL BE WEATHER-PROOF.
2. COORDINATE CAMERA LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
3. ALL CAMERAS SHALL BE VANDAL PROOF.
4. ALL PTZ CAMERAS SHALL BE ~~WIRELESS~~ W/ POWER CONDUCTORS IN ADDITION TO CATEGORY 6A CABLE OR FIBER CABLE AS SCHEDULED.
(3)

VIDEO SURVEILLANCE DEVICE ABBREVIATIONS:

"EXT" - DENOTES EXTERIOR

"PTZ" - DENOTES PAN/TILT/ZOOM

"WP" - DENOTES WEATHERPROOF

DOOR ENTRY

VES - VIDEO ENTRANCE STATION

VMS - VIDEO MASTER STATION

FIRE ALARM

- SMOKE DETECTOR, CEILING MOUNTED

ER - SMOKE DETECTOR, ELEVATOR RECALL

DS - DUCT SMOKE DETECTOR WITH TWO RELAYS

CO - CARBON MONOXIDE DETECTOR

CODS - DUCT CARBON MONOXIDE DETECTOR WITH TWO RELAYS

135°F - HEAT DETECTOR, FIXED "135" - DENOTES TEMPERATURE

NG - NATURAL GAS DETECTOR

FS - FLOW SWITCH

TS - TAMPER SWITCH

PS - PRESSURE SWITCH

- ALARM BELL

- EXTERIOR BEACON 150,000 CANDLE POWER, COORDINATE EXACT LOCATION WITH AHJ

RAI - REMOTE ALARM INDICATOR, PROVIDE PERMANENTLY ATTACHED PLACARD TO INDICATE BOTH THE FUNCTION AND ANY DEVICE OR EQUIPMENT ASSOCIATED PER NFPA REQUIREMENTS. INDICATORS SHOULD BE WALL MOUNTED TO MAKE ATTACHING PLACARD AT THE INDICATOR EASIER. SUBMIT THE PLACARD TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

110cd - VISUAL APPLIANCE, CEILING MOUNTED
"110cd" - DENOTES CANDELA RATING

110cd - COMBINATION AUDIOVISUAL APPLIANCE, CEILING MOUNTED
"110cd" - DENOTES CANDELA RATING

110cd - VISUAL APPLIANCE, WALL MOUNTED
"110cd" - DENOTES CANDELA RATING

110cd - COMBINATION AUDIOVISUAL APPLIANCE, WALL MOUNTED
"110cd" - DENOTES CANDELA RATING

- AUDIO APPLIANCE, WALL MOUNTED

K - KNOX BOX

I/O - I/O MODULE WITH (2) CONTROL MODULES AND (4) MONITOR MODULES

MM - MONITOR MODULE

CM - CONTROL MODULE

R - FIRE ALARM RELAY

P - PULL STATION

DH - DOOR HOLDER

- MASTER BOX

EOLR - END-OF-LINE RESISTOR

RTS - REMOTE TEST SWITCH

NAC - SUPPLEMENTARY NOTIFICATION APPLIANCE PANEL

FACP - FIRE ALARM CONTROL PANEL

DANN - DAS ANNUNCIATOR

BRX - BEAM DETECTOR RECEIVER

BTX - BEAM DETECTOR TRANSMITTER

DAS - DAS ANTENNA

AORC - AREA OF REFUGE CALL STATION WITH AREA OF REFUGE LIT SIGN AND AREA OF REFUGE "DIRECTIONS FOR CALL BOX USE"

AOR - LIT SIGN WITH INTEGRAL BATERY BACKUP

AORM - AREA OF REFUGE MASTER STATION
(3)

NOTES FOR FIRE ALARM DEVICES:

1. COORDINATE EXACT LOCATION OF ALL SPRINKLER SYSTEM ASSOCIATED DEVICES WITH THE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.
2. COORDINATE LOCATION OF KNOX BOX, EXTERIOR BEACON AND FIRE ALARM BELL WITH AHJ PRIOR TO ROUGH-IN.
3. COORDINATE WITH ARCHITECT THE LOCATION OF PULL STATIONS AND ANNUNCIATOR PANELS IN AND AROUND VESTIBULES FOR COORDINATION.

IN-CEILING CLASSROOM AUDIO

SR - IN-CEILING CLASSROOM AUDIO SYSTEM SPEAKER, RECESSED MOUNTED

OBSERVATION INTERCOM

IN - POE INTERCOM WALL STATION, 3-BUTTON
(1) CATEGORY 6A DATA DROP

IN - POE OBSERVATION CEILING SPEAKER
(1) CATEGORY 6A DATA DROP
(3)

SOUND & CLOCK

LS Z1 - LOCAL SOUND SYSTEM SPEAKER
"Z1" DENOTES SPEAKER ZONE

PA - PUBLIC ADDRESS SPEAKER, RECESSED MOUNTED

PA - PUBLIC ADDRESS SPEAKER, RECESSED MOUNTED WITH TALK-BACK CAPABILITY

PA - PUBLIC ADDRESS SPEAKER, SURFACE MOUNTED IN GYMNASIUM

PA - PUBLIC ADDRESS SPEAKER, WALL MOUNTED ON EXTERIOR

PA - PUBLIC ADDRESS SPEAKER, POLE MOUNTED

MP - MICROPHONE JACK FOR PA SYSTEM.
COORDINATE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH IN

$3 - AUDIO INPUT JACK FOR PA SYSTEM

- 12 INCH ANALOG CLOCK

15" - 15 INCH ANALOG CLOCK

CLK - DISPLAY SCREEN CLOCK SYSTEM

ECS - EMERGENCY CALL STATION

IPA - IP AMPLIFIER
SOUND & CLOCK DEVICES ABBREVIATIONS:

"S" - DENOTES SURFACE MOUNTED

"TB" - DENOTES SPEAKER WITH TALK-BACK CAPABILITY

NETWORK LIGHTING CONTROL

DA - DALI MULTI-SENSOR (DAYLIGHT, OCCUPANCY AND TEMPERATURE)

DX - 0-10V DIGITAL TO ANALOG CONVERTER

FR - FIELD RELAY

M HB - OCCUPANCY SENSOR
"HB" DENOTES HIGH BAY SENSOR

$1DA - TWO BUTTONS DALI SWITCH: ON/OFF

$2DA - TWO BUTTON DALI SWITCH: ON/OFF WITH RAISE/LOWER DIMMING CONTROL

$4DA - FOUR BUTTON DALI SWITCH: ON/OFF WITH RAISE/LOWER DIMMING CONTROL AND PROGRAMMABLE SCENES.

NOTES FOR NETWORK LIGHTING CONTROL:

1. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TYPICAL DETAILS.

ABBREVIATIONS

2C - DENOTES 2-CIRCUITS, TOP AND BOTTOM HALF ON SEPARATE CIRCUITS
AFF - ABOVE FINISHED FLOOR
AHJ - AUTHORITY HAVING JURISDICTION
ATS - AUTOMATIC TRANSFER SWITCH
AIC - AMPERES INTERRUPTING CAPACITY
BDA - BI-DIRECTIONAL AMPLIFIER
BMS - BUILDING MANAGEMENT SYSTEM
BOF - BOTTOM OF FIXTURE
C - RECEPTACLE ABOVE COUNTER, HEIGHT PER ARCHITECTURAL ELEVATION PLANS
CLG - CEILING MOUNTED
CM - COFFEE MAKER
CS - CHARGING STATION
DAS - DISTRIBUTED ANTENNA SYSTEM
DAC - NETWORK LIGHTING DIGITAL TO ANALOG CONVERTER
DW - DISH WASHER
EC - ELECTRICAL SUBCONTRACTOR
EH - EXHAUST HOOD
EMS - ENERGY MANAGEMENT SYSTEM
EPO - EMERGENCY POWER SHUTOFF BUTTON
EX - EXISTING DEVICE TO REMAIN
F - FRACTIONAL HORSEPOWER
FACP - FIRE ALARM CONTROL PANEL
FBO - FURNISHED BY OTHERS
FM - FUME HOOD
FR - NETWORK LIGHTING FIELD RELAY
G - GOGGLE CABINET
GC - GENERAL CONTRACTOR
GFCI - GROUND FAULT CIRCUIT INTERRUPTER
GFP - GROUND FAULT PROTECTION
GW - GLASSWARE WASHER
H - DEVICE MOUNTED AT CUSTOM HEIGHT PER ARCHITECTURAL ELEVATION PLANS
HB - HIGH BAY
HD - HAND DRYER
HL - HOYER LIFT
HH - HANDHOLE
IM - ICE MAKER
KEC - KITCHEN EQUIPMENT CONTRACTOR
LCP - LIGHTING CONTROL PANEL
LR - LONG RANGE
LRP - LIGHTING RELAY PANEL
LV - LOW VOLTAGE
MW - MICROWAVE
MC - MICROPHONE
MCB - MAIN CIRCUIT BREAKER
MH - MOUNTING HEIGHT
MLO - MAIN LUGS ONLY
MD - MOTORIZED DAMPER
NTS - NOT TO SCALE
SPD - SURGE PROTECTION DEVICE
SR - SPEECH REINFORCEMENT
TBD - TO BE DETERMINED
TC - TIME CLOCK
TV - DENOTES OUTLET FOR TV, COORDINATE MOUNTING HEIGHT WITH THE ARCHITECT.
U - UNDERCOUNTER
VFD - VARIABLE FREQUENCY DRIVE
VP - VANDAL PROOF
VSD - VARIABLE SPEED DRIVE
W - WALL MOUNTED
WG - WIRE GUARD
WIC - WHILE IN-USE COVER
WO - WALL OVEN
WP - WEATHERPROOF
WP/WIC - DENOTES WEATHER PROOF WITH WHILE-IN-USE COVER
XFMR - TRANSFORMER
XP - EXPLOSION PROOF

WIRING

- HOME RUN TO PANEL

10 AWG - HOME RUN TO PANEL
INSTALL 10 AWG WIRE TO ALL DEVICES IN THE CIRCUIT UNLESS OTHERWISE NOTED

WIRE SIZES SHOWN ON WIRING RUNS ARE FOR THE ASSISTANCE TO THE ELECTRICIAN IN RUNNING THE WIRING. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR TO VERIFY ALL WIRE SIZES AND INSTALL THE REQUIRED NUMBER OF CONDUCTORS NEEDED FOR THE INSTALLATION.

SOUND SYSTEM

ANT - 1/2 WAVE ANTENNA, 4" BOX WITH SINGLE-GANG COVER, PROVIDE 1" CONDUIT FROM BOX TO SOUND RACK.

ALS - ALS ANTENNA, 4" BOX WITH SINGLE-GANG COVER, PROVIDE 1" CONDUIT FROM BOX TO SOUND RACK.

ML - MIC/LINE PLATES, 2X 1 WALL MOUNTED BOX. PROVIDE 1" CONDUIT FROM EACH BOX TO SOUND RACK.

M2 - DUAL MIC PLATES, WALL MOUNTED BOX. PROVIDE 1" CONDUIT FROM EACH BOX TO SOUND RACK.

M2 - DUAL MIC PLATES, FLOOR MOUNTED. 4" BOX WITH SINGLE-GANG COVER. PROVIDE 1" CONDUIT FROM BOX TO SOUND RACK.

SW - CONTROL PANEL. 4" BOX WITH SINGLE-GANG COVER. PROVIDE 1" CONDUIT FROM BOX TO SOUND RACK.

LIGHTING

A a P-4 - LIGHT FIXTURE
"A" DENOTES FIXTURE TYPE
"a" DENOTES SWITCH CODE
"P-4" DENOTES PANEL AND CIRCUIT NUMBER

- LIGHT FIXTURE WITH EMERGENCY BALLAST "NL" DENOTES NIGHTLIGHT

- EXIT SIGN, SINGLE SIDED

- EXIT SIGN, DUAL SIDED

EPC-N - EMERGENCY POWER CONTROL RELAY, SWITCHED PROVIDE WITH CONTACT FOR FIRE ALARM PANEL NORMALLY ON

NOTES FOR EGRESS LIGHTING:

CONNECT EXIT SIGNS TO THE LINE SIDE OF THE NEAREST LIFE SAFETY EMERGENCY LIGHTING CIRCUIT IN THE AREA. COORDINATE LOCATIONS OF ALL EXIT SIGNS WITH THE ARCHITECT PRIOR TO ROUGH-IN.

NOTES FOR EMERGENCY POWER CONTROL RELAY:

1. WIRE EMERGENCY LIGHT FIXTURES VIA BYPASS RELAY (EPC) TO BYPASS LOCAL SWITCH CONTROLS DURING EMERGENCY CONDITIONS.
2. WIRE EPC TO EMERGENCY AND NORMAL LIGHTING CIRCUITS IN THE ROOM/SPACE IT SERVES.
3. LOCATE EPC-N INSIDE THE BUILDING, ABOVE ACCESSIBLE CEILING, IN ELECTRICAL ROOMS, OR IN INCONSPICUOUS LOCATIONS.

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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

Electrical Legend

Key Plan

REVISIONS

No.	Description	Date
3	Addendum #7	02/20/19

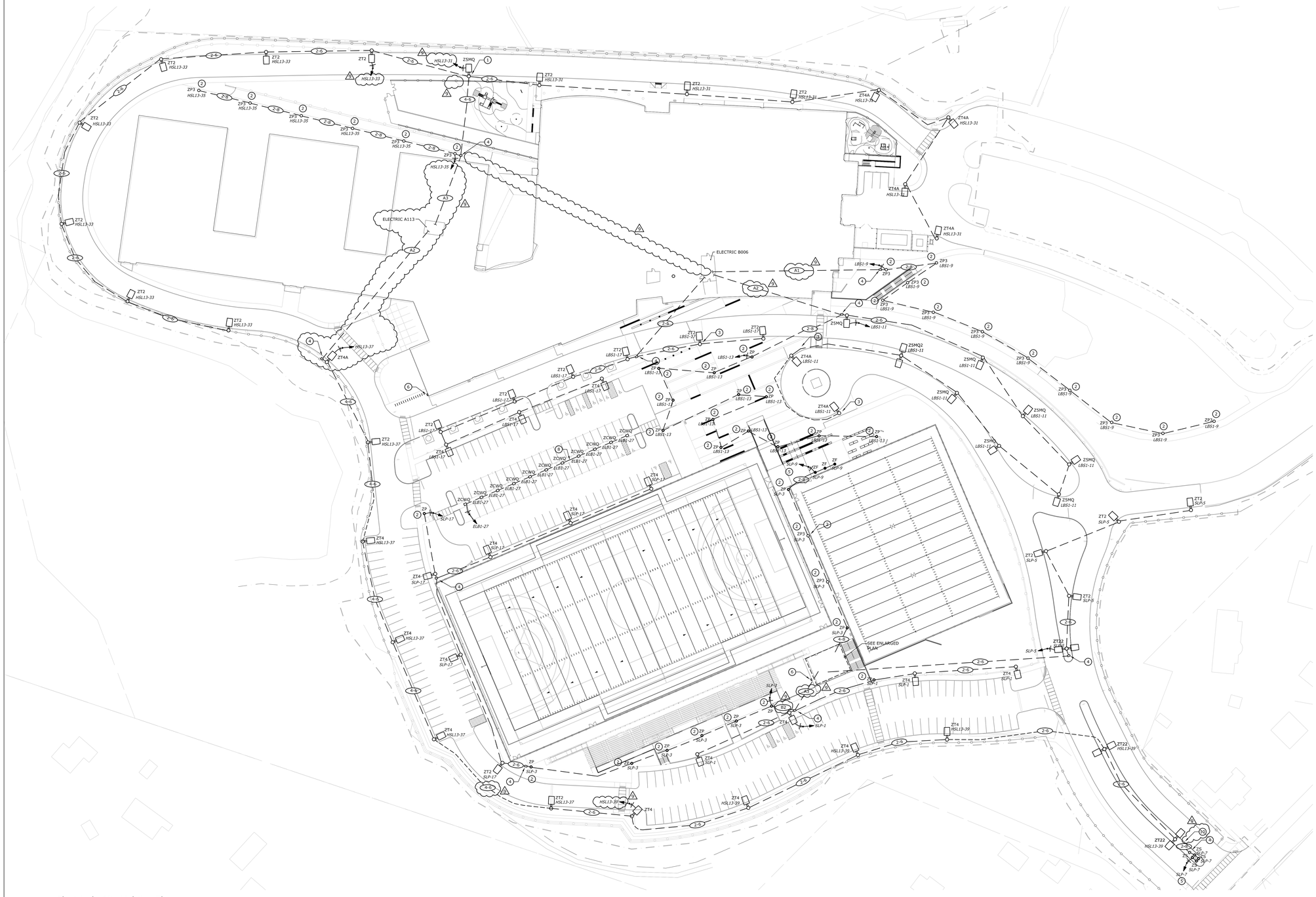
FILE:

DWN. BY: AC | JOB NO: #1611

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

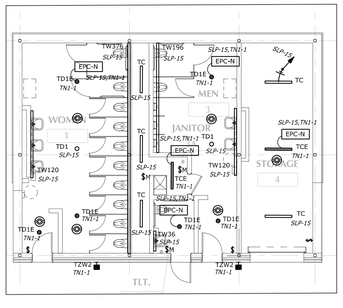
DATE: January 31, 2019

E0.1



Electrical - Site Lighting Plan

SCALE: 1" = 40'-0"



KEYED NOTES

1. DATA FOR ACCESS CONTROL. LOCATE DATA DROP ABOVE ACCESSIBLE CEILING. TYPICAL FOR ALL DOORS WITH ELECTRIC LOCKS AND CARD READERS.

1 E3.1 Technology - Ground Floor Plan Section B1
Scale: 1/8" = 1'-0"

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PROJECT

FINAL BID PACKAGE

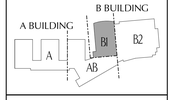
South High Community School

170 Apricot Street, Worcester, MA 01603

TITLE

Technology - Ground Floor Plan Section B1

Key Plan



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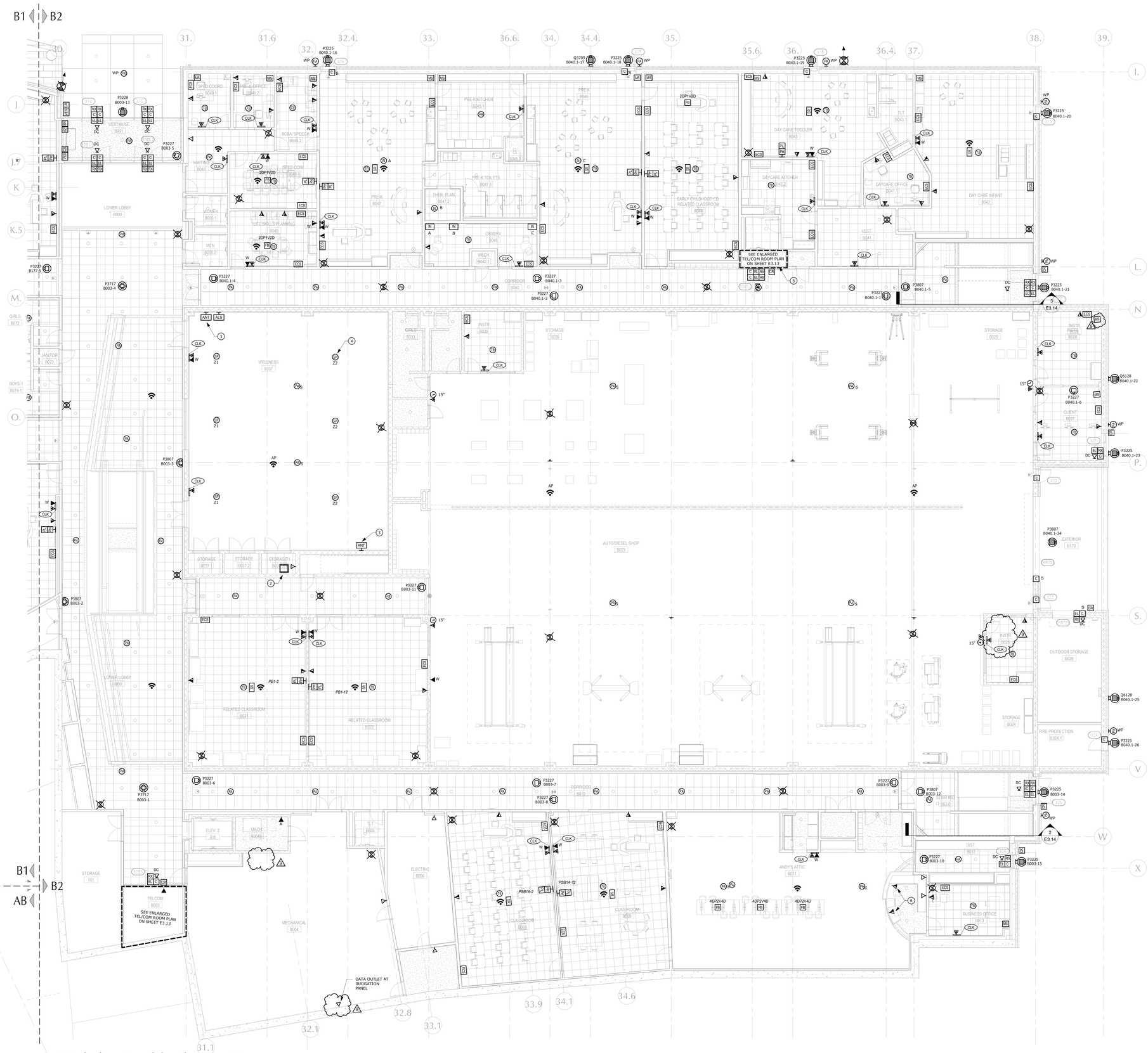
No.	Description	Date
1	Addendum #7	02/20/19

FILE:

DWN. BY: AC	JOB NO: #1611
CKD. BY: AR	SCALE: 1/8" = 1'-0"

DATE: January 31, 2019

E3.1



1 Technology - Ground Floor Plan Section B2
E3.2 Scale: 1/8" = 1'-0"

52

KEYED NOTES

1. DATA FOR ACCESS CONTROL. LOCATE DATA DROP ABOVE ACCESSIBLE CEILING. TYPICAL FOR ALL DOORS WITH ELECTRIC LOCKS AND CARD READERS.
2. LOCAL SOUND SYSTEM RACK. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
3. MOUNT ANTENNA ABOVE THE CEILING UNLESS IT IS REQUIRED TO BE VISIBLE. IF REQUIRED TO BE VISIBLE MOUNT JUST UNDER THE CEILING OR AS HIGH AS POSSIBLE. COORDINATE WITH THE SYSTEM VENDOR. TYPICAL.
4. MOUNT SPEAKERS AT THE SAME PLANE AS LIGHT FIXTURES OR ABOVE. COORDINATE SPEAKER LAYOUT WITH THE ARCHITECT PRIOR TO INSTALLATION.
5. INSTALL (2) 4" SLEEVES FOR TELECOMMUNICATIONS TO FIRST FLOOR CEILING. PROVIDE WITH ZERO MAINTANANCE FIRESTOPPING PATHWAY
6. TO BE FED FROM WALL.

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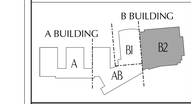
TITLE

Technology - Ground Floor Plan Section B2

Key Plan



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No.	Description	Date
1	Addendum #7	02/20/19

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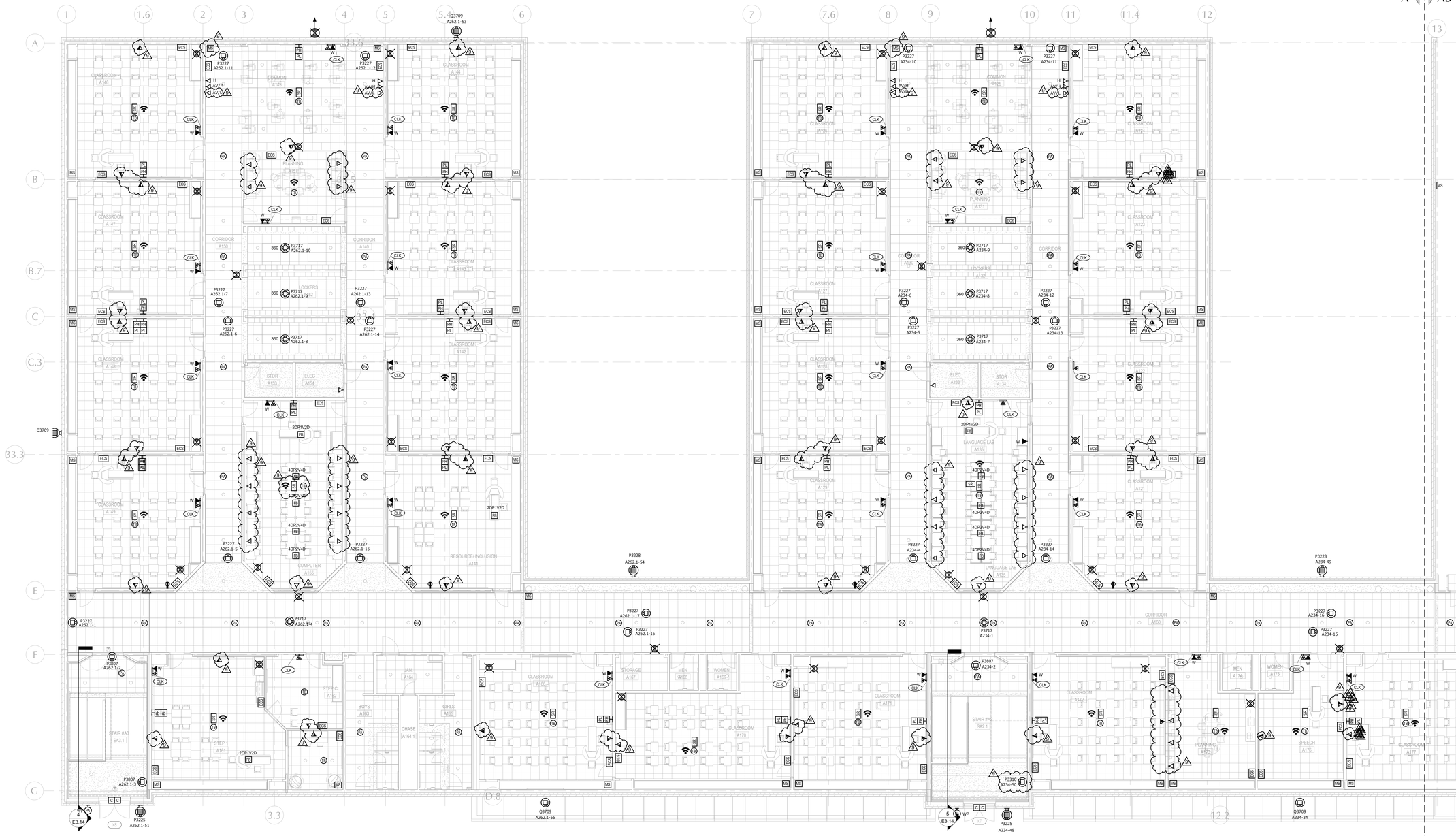
E3.2



1 E3.3 Technology - First Floor Plan Section A
Scale: 1/8" = 1'-0"

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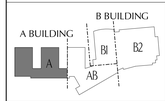
Technology - First Floor Plan Section A

Key Plan



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E3.3

KEYED NOTES

1. DATA OUTLETS AT POS (POINT OF SALE). SEE DRAWING K2.4. COORDINATE EXACT LOCATION IN THE FIELD.
2. DATA OUTLET FOR DISPLAY UNIT. SOFFIT MOUNTED, COORDINATE EXACT LOCATION IN THE FIELD.
3. ELECTRONIC LOCK SHALL UNLOCK UPON SIGNAL FROM FIRE ALARM SYSTEM.
4. CARD READERS WIRED TO MOTORIZED COILING OVERHEAD SECURITY GRILLE.

1 E3.4 Technology - First Floor Plan Section AB
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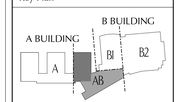
Key Plan



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1	Addendum #7	02/20/19

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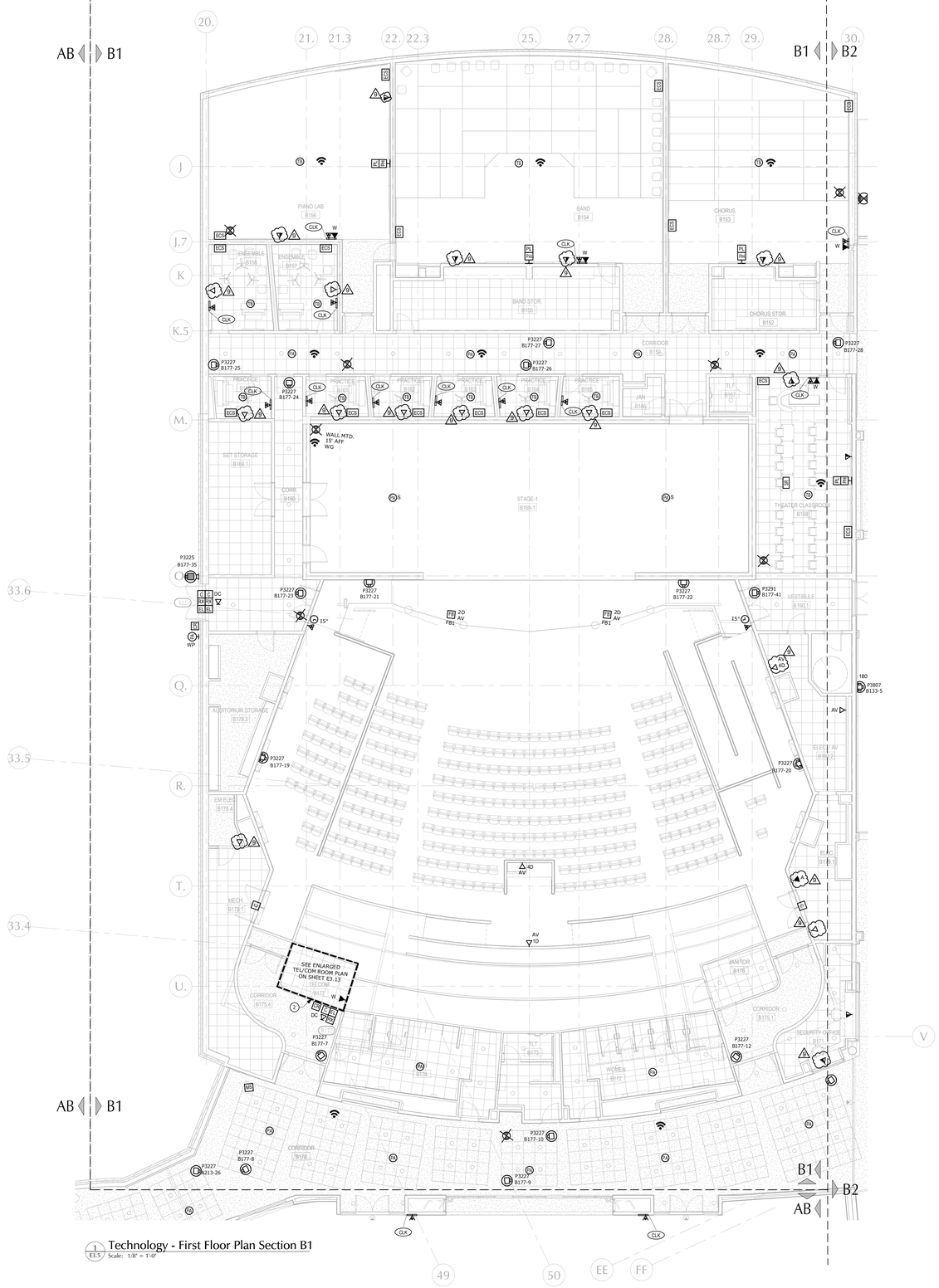
E3.4



1 Technology - First Floor Plan Section B1
E3.5 Scale: 1/8" = 1'-0"

KEYED NOTES

1. POWER AND DATA FOR ACCESS CONTROL. LOCATE DATA DROP ABOVE ACCESSIBLE CEILING. TYPICAL FOR ALL DOORS WITH ELECTRIC LOCKS AND CARD READERS.
2. INSTALL (4) 4" SLEEVES FOR TELECOMMUNICATIONS TO GROUND FLOOR CEILING AND (4) 4" SLEEVES FOR TELECOMMUNICATIONS TO SECOND FLOOR CEILING. PROVIDE WITH ZERO MAINTANANCE FIRESTOPPING PATHWAY

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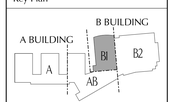

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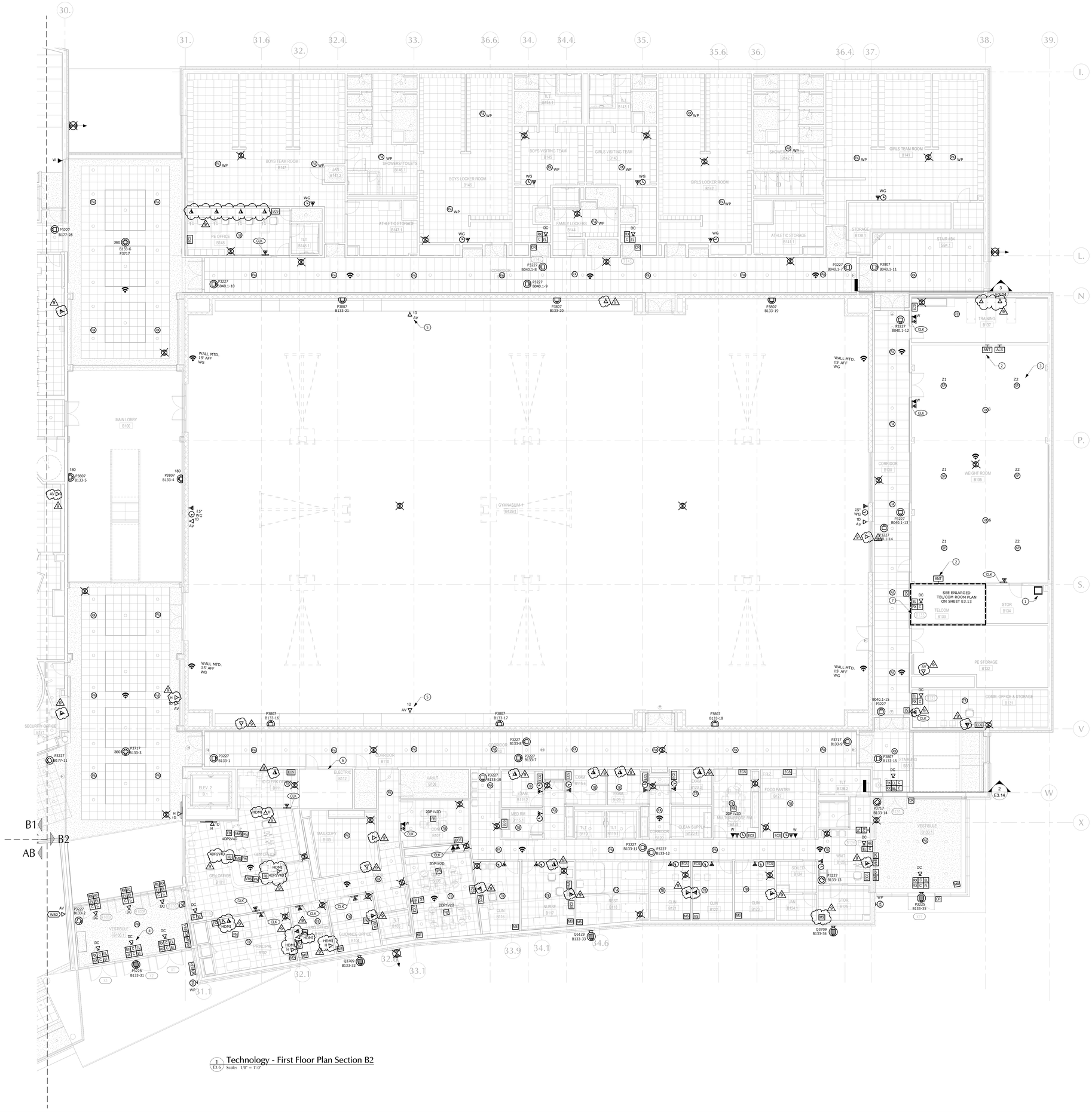
E3.5



1 E3.6 Technology - First Floor Plan Section B2
Scale: 1/8" = 1'-0"

GENERAL NOTES
1. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES WITH THE ARCHITECT PRIOR TO ROUGH-IN.

KEYED NOTES FOR E3.8
1 LOCAL SOUND SYSTEM RACK. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
2 MOUNT ANTENNA ABOVE THE CEILING UNLESS IT IS REQUIRED TO BE VISIBLE. IF REQUIRED TO BE VISIBLE MOUNT JUST UNDER THE CEILING OR AS HIGH AS POSSIBLE. COORDINATE WITH THE SYSTEM VENDOR. TYPICAL.
3 MOUNT SPEAKERS AT THE SAME PLANE AS LIGHT FIXTURES OR ABOVE. COORDINATE SPEAKER LAYOUT WITH THE ARCHITECT PRIOR TO INSTALLATION.
4 DATA FOR ACCESS CONTROL. LOCATE DATA DROP ABOVE ACCESSIBLE CEILING. TYPICAL FOR ALL DOORS WITH ELECTRIC LOCKS AND CARD READERS.
5 LOCATE 18 INCHES ABOVE TOP OF BLEACHERS.
6 INSTALL (2) 4" SLEEVES FOR TELECOMMUNICATIONS FROM GROUND FLOOR CEILING TO THE FIRST FLOOR CEILING. PROVIDE WITH ZERO MAINTANANCE FIRESTOPPING PATHWAY.
7 INSTALL (2) 4" SLEEVES FOR TELECOMMUNICATIONS TO THE SECOND FLOOR CEILING. PROVIDE WITH ZERO MAINTANANCE FIRESTOPPING PATHWAY.
8 HDMI OUTLET: HUBBLE 1SFHDT431BK. RUN CATEGORY 6A CABLE BETWEEN HDMI OUTLETS. VERYIFY LOCATION/HEIGHT OF DEVICES WITH THE ARCHITECT/OWNER PRIOR TO ROUGH IN

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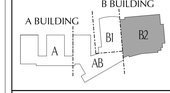

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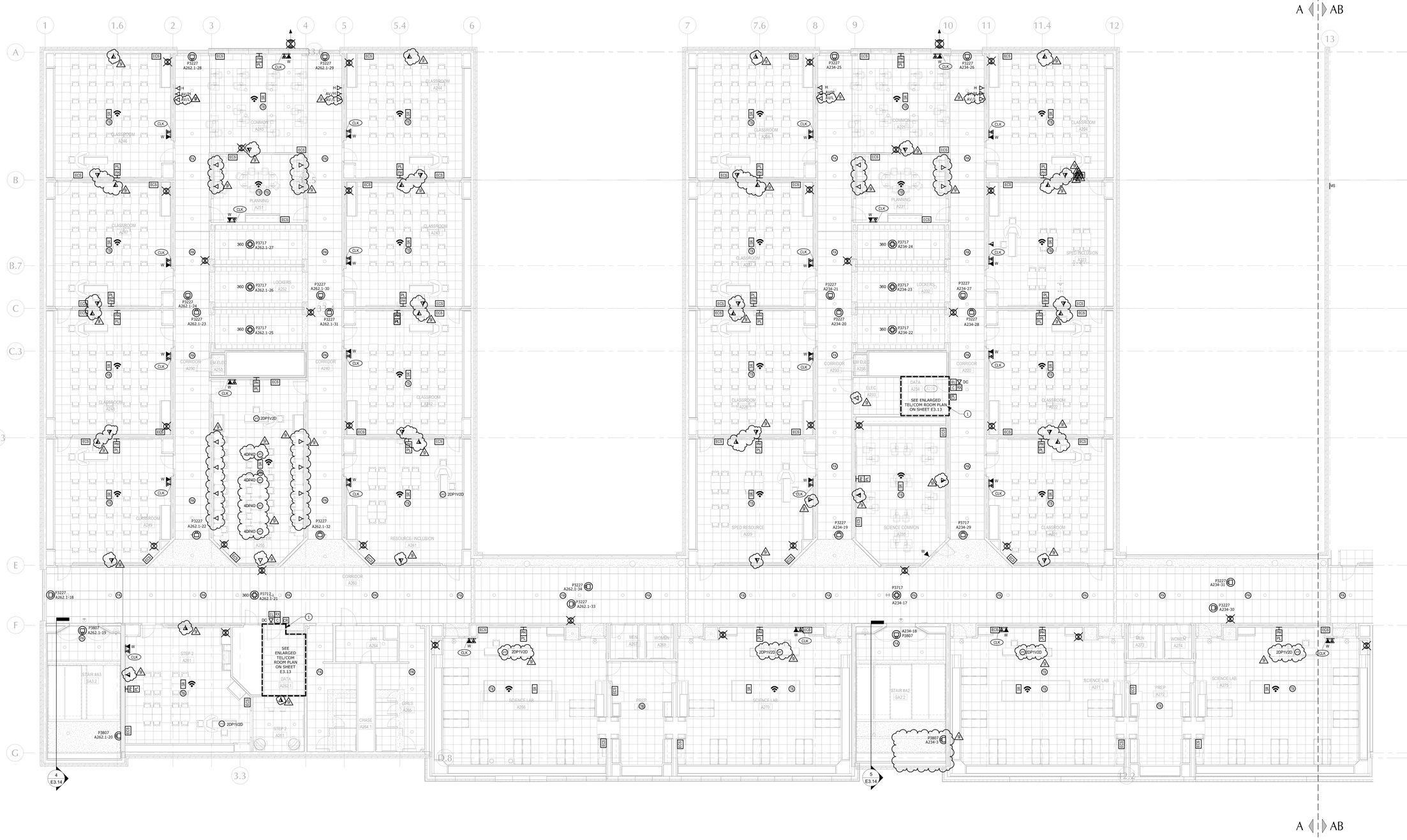
E3.6

KEYED NOTES

1. INSTALL (4) 4" SLEEVES FOR TELECOMMUNICATIONS TO FIRST FLOOR CEILING AND (4) 4" SLEEVES FOR TELECOMMUNICATIONS TO THIRD FLOOR CEILING. PROVIDE WITH ZERO MAINTANANCE FIRESTOPPING PATHWAY.



1 E3.7 Technology - Second Floor Plan Section A
Scale: 1/8" = 1'-0"

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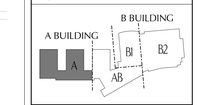
TITLE

Technology - Second Floor Plan Section A

Key Plan



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1	Addendum #7	02/20/19

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DWN. BY: AC	JOB NO: #1611
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DATE: January 31, 2019	

E3.7

1 E3.8 Technology - Second Floor Plan Section AB
Scale: 1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES WITH THE ARCHITECT PRIOR TO ROUGH-IN.

KEYED NOTES FOR E3.8

1. LOCAL SOUND SYSTEM RACK. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
2. MOUNT ANTENNA ABOVE THE CEILING UNLESS IT IS REQUIRED TO BE VISIBLE. IF REQUIRED TO BE VISIBLE MOUNT JUST UNDER THE CEILING OR AS HIGH AS POSSIBLE. COORDINATE WITH THE SYSTEM VENDOR. TYPICAL.
3. MOUNT SPEAKERS AT THE SAME PLANE AS LIGHT FIXTURES OR ABOVE. COORDINATE SPEAKER LAYOUT WITH THE ARCHITECT PRIOR TO INSTALLATION.
4. CARD READERS WIRED TO MOTORIZED COILING OVERHEAD SECURITY GRILLE.
5. SOFFIT MOUNTED DATA OUTLET FOR FUTURE SOFFIT MOUNTED PROJECTOR. MOUTING HEIGHT IS 12.5' AFF.
6. ELECTRONIC LOCK SHALL UNLOCK UPON SIGNAL FROM FIRE ALARM SYSTEM.
7. INSTALL (4) 4" SLEEVES FOR TELECOMMUNICATIONS TO FIRST FLOOR CEILING AND (4) 4" SLEEVES FOR TELECOMMUNICATIONS TO THIRD FLOOR CEILING. PROVIDE WITH ZERO MAINTANANCE FIRESTOPPING PATHWAY.

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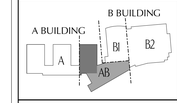

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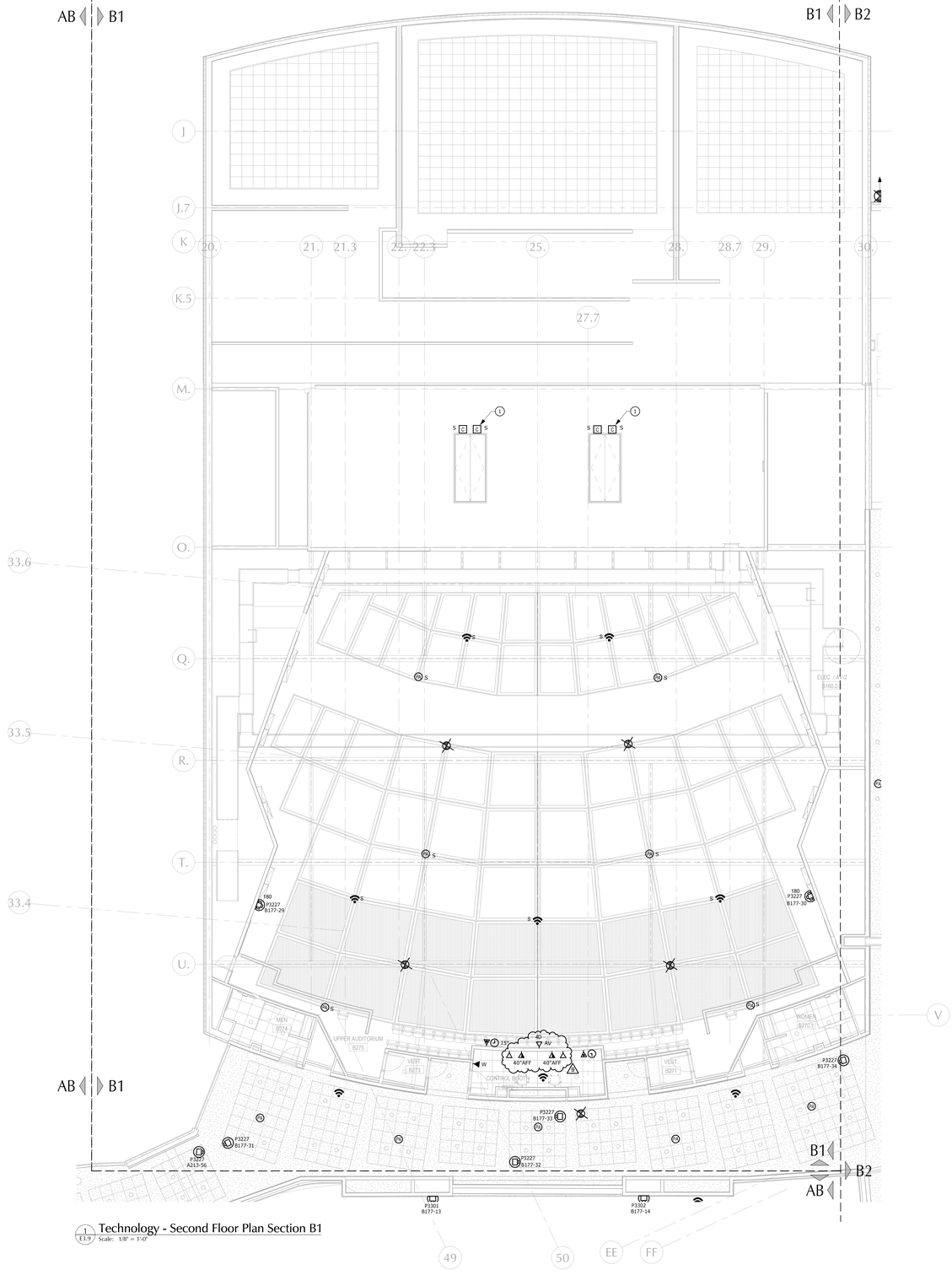
DATE: January 31, 2019

E3.8

KEYED NOTES FOR XXXX

1 PORVIDE INTRUSION ALARM WIRING AND DOOR CONTACTS FOR SMOKE VENTS.



1 / E3.9 Technology - Second Floor Plan Section B1
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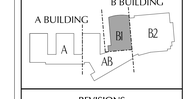
Key Plan



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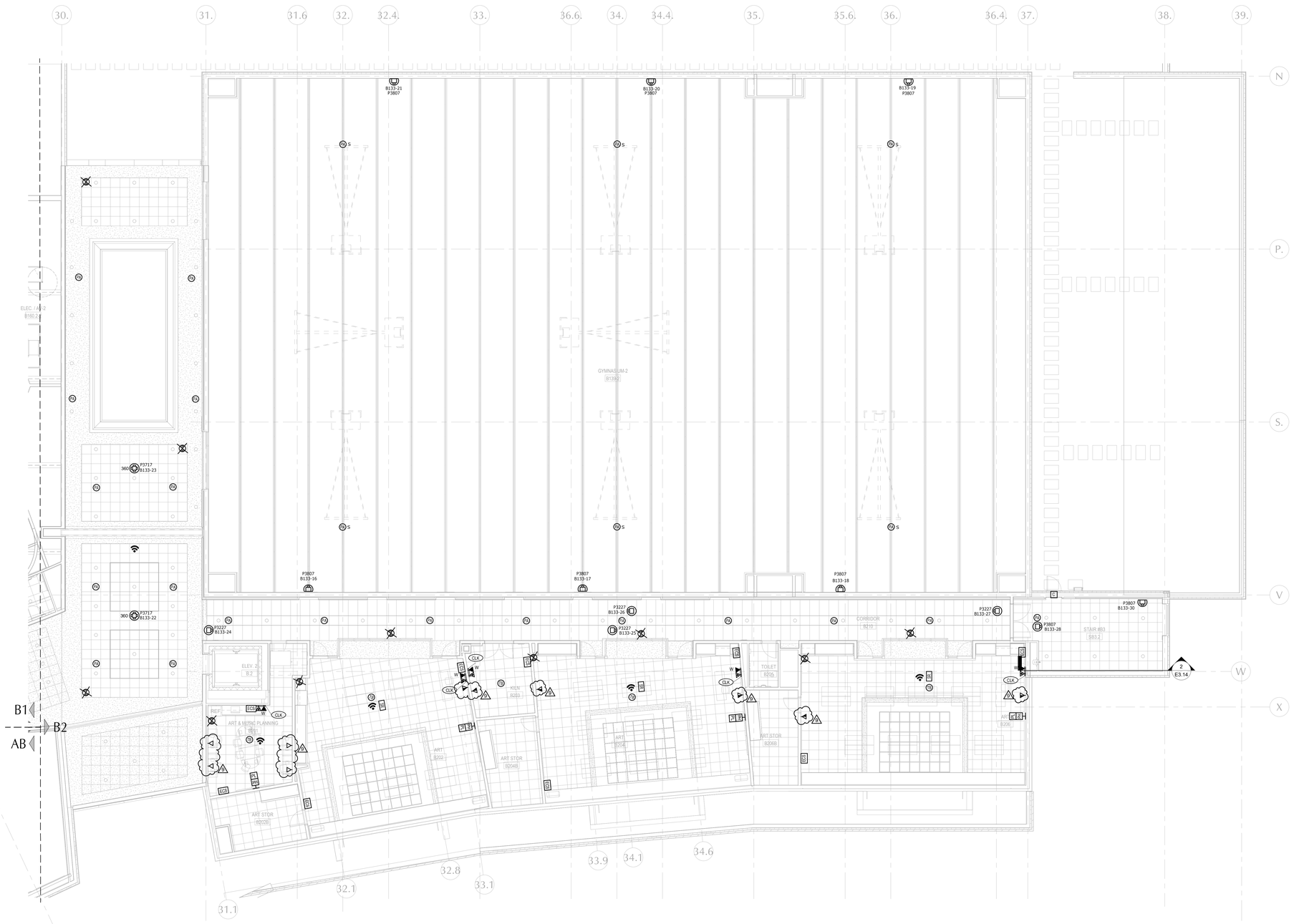
E3.9



1 E3.10 Technology - Second Floor Plan Section B2
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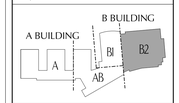

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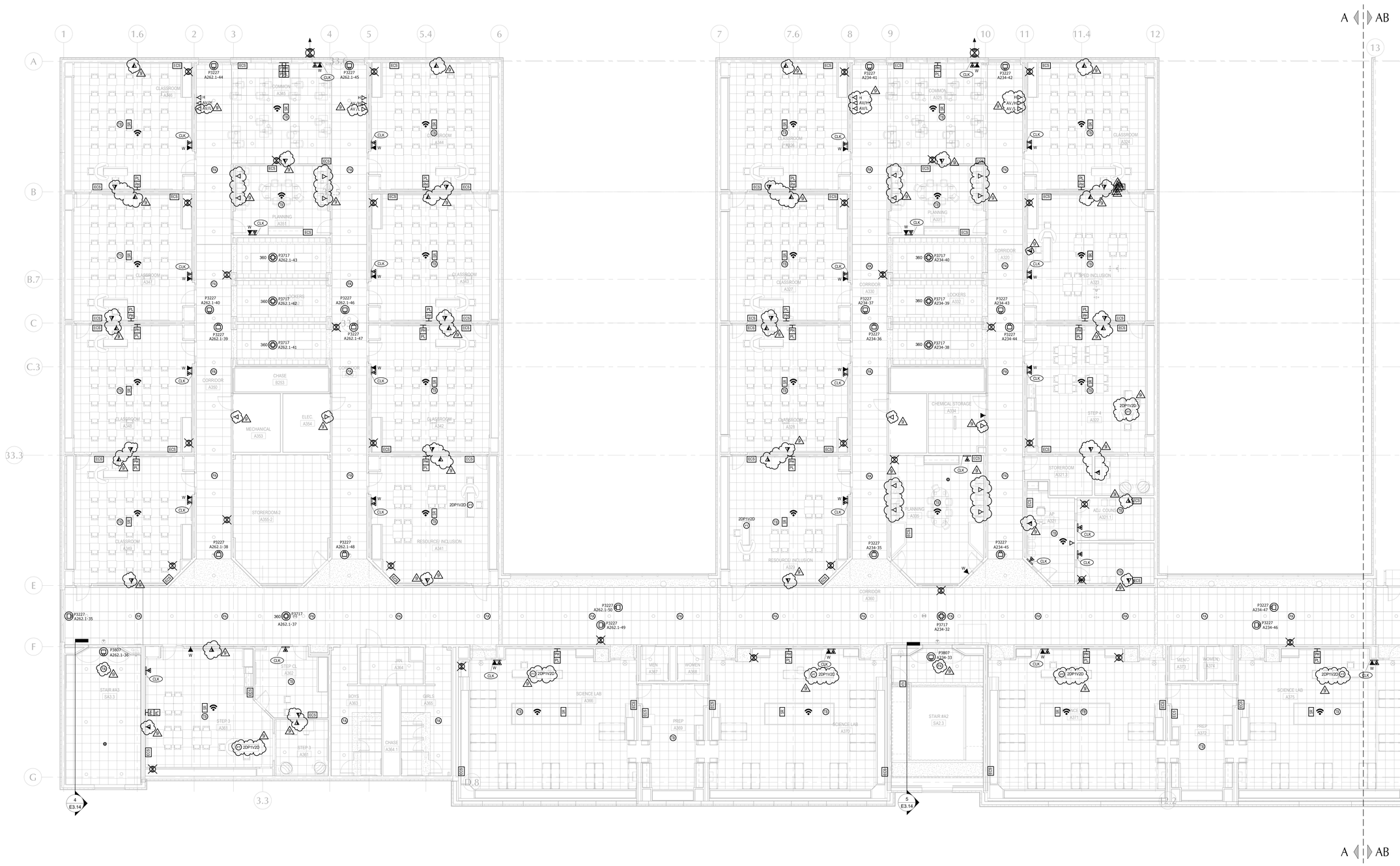

1 E3.11 Technology - Third Floor Plan Section A

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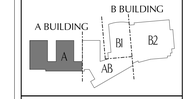
Technology - Third Floor Plan Section A

Key Plan



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DATE: January 31, 2019

E3.11

KEYED NOTES

1. ELECTRONIC LOCK SHALL UNLOCK UPON SIGNAL FROM FIRE ALARM SYSTEM.
2. CARD READERS WIRED TO MOTORIZED COILING OVERHEAD SECURITY GRILLE.

1 E3.12 Technology - Third Floor Plan Section AB
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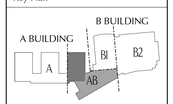

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