

ADDENDUM No. 1 – March 25, 2026

PART 1 - GENERAL

Note: All Addenda must be acknowledged on the bid form.

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.

PART 2 – SPECIFICATIONS

1. SECTION 00 01 10 – TABLE OF CONTENTS

Page 4, DIVISION 27 COMMUNICATIONS

Insert: "27 41 20 IN-CEILING INSTRUCTIONAL AUDIO SYSTEM
(* Trade Contract Required as part of Section 26 00 01)"

2. SECTION 01 12 00 – PROJECT PHASING REQUIREMENTS

Page 3, Paragraph 3.3 PHASING OF THE WORK, paragraph A.

Insert: "PHASE #2 – June 23, 2026 – August 14, 2026
1. All work in Welding and Metals Technology D325
2. All above ceiling and overhead work at Lower Level Autobody and adjacent spaces.
3. The spaces will be occupied and shall be fully functional prior to and immediately following the dates of the phase. Preparatory work in these areas may be allowed by the owner with the owner's prior approval."

3. SECTION 01 14 00 – WORK RESTRICTIONS

Page 2, Paragraph 1.3 USE OF SITE, paragraph B.

Delete: 2. In its entirety
Insert: "2. Workers' parking and storage of materials shall be in areas noted on the Site Logistics Plan included on Drawings AD3.3. The final location of fencing shall be coordinated with the owner prior to placement. The General Contractor shall be responsible for snow removal in parking and storage areas."

Page 2, Paragraph 1.3 USE OF SITE, paragraph B.

Insert: "4. Availability of the parking lot at the Green Hill Park Athletic Fields, as shown in the Partial Campus Plan on drawing AD3.3, shall be restricted to the contractors' daytime parking use only. No overnight parking or storage of materials will be allowed. Snow removal and maintenance of the parking area will be the contractors' responsibility. Use of this parking lot will be coordinated with and be at the discretion of the City of Worcester Department of Parks, Recreation & Cemetery."

4. SECTION 01 60 00 – PRODUCT REQUIREMENTS

Page 3, Paragraph 1.4 BASIC PRODUCT REQUIREMENTS

Insert: "I. Project Products Compliance Requirements
A. Build America Buy America Act procurement preferences are not required for this project. All other product requirements noted in the contract documents shall apply."

5. SECTION 09 91 00 – PAINTING

Page 1, Paragraph 1.2 SUMMARY, paragraph B.

Insert: "13. New exposed piping and conduit at overhead piping and conduit at exposed ceilings in lower-level auto shops.
14. Primer on walls scheduled to receive FRL finish."

6. SECTION 26 00 01 ELECTRICAL

Page 1, Paragraph 1.2, Section A, 1:

Insert: " v. 27 41 20 In-Ceiling Instructional Audio System"

Page 2, Paragraph 1.2, Section E, 2:

Insert:

| | | |
|----------------|---------------------------------------|----------|
| Communications | In-Ceiling Instructional Audio System | 27 41 20 |
|----------------|---------------------------------------|----------|

Page 15, Paragraph 1.30:

Delete: "The Electrical Subcontractor shall provide temporary connection to the elevator. Refer to Section 142424 "Holeless Hydraulic Elevators"."

7. SECTION 26 24 16 PANELBOARDS

Page 1, Part 1, Section A:

Delete: "Electrical bidders shall refer to spec. section 007300 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS, subsection 14: "Trade Specific Scope Notes," item OO, specifically #s 32 and 33 for additional information on electrical scope associated with pre-purchased equipment."

8. ADD SECTION 27 41 20 IN-CEILING INSTRUCTIONAL AUDIO SYSTEM

9. SECTION 28 10 00 UNIFIED SECURITY SYSTEM

Page 5, Paragraph 2.2, Section A, 1:

Replace: "Axis P3267-LVE" with "Axis P3287-LVE"

Page 5, Paragraph 2.2, Section A, 3:

Replace: "Axis P3727-PLE" with "Axis P3737-PLE"

Page 5, Paragraph 2.2, Section C, 1:

Replace: "Genetec SY-DV4RD-E2M-NET" with "Genetec SY-DV8RD-E4M-NET"

PART 3 – DRAWINGS

1. DRAWING AD3.3 – PARTIAL DEMOLITION ELEVATION, SECTIONS, & SITE LOGISTICS PLAN

Delete: 6/AD3.3 Partial Campus Plan

Insert: 6/AD3.3 Partial Campus Plan, revised as shown in sketch ADD-1/A-001, included in this addendum.

2. DRAWING A3.1 – PARTIAL THIRD FLOOR PLAN – SECTION D

1/A3.1 PARTIAL THIRD FLOOR PLAN – SECTION 9 (PARTIAL)

Insert: Painting notes in Welding & Metals Technology D325 as shown in sketch ADD-01/A-002.

General Notes

Insert: Note 5. The final location of the relocated metals technology equipment in Welding & Metals Technology D325 shall be determined in the field. The GC shall coordinate all new electrical connections in relation to the equipment location.

3. DRAWING A8.8 – TYPICAL TOILET PLANS & EXTERIOR GAS STORAGE AREA

1/A8.8 STAFF TOILET ROOM D323B – ENLARGED PLAN

3/A8.8 STAFF TOILET ROOM D323B-NORTH

4/A8.8 STAFF TOILET ROOM D323B-EAST

Delete: GB-1 type grab bar

Insert: GB type grab bar

4. DRAWING A9.1 – CASEWORK

Insert: CW13 LAB D317A CASEWORK, as shown in sketch ADD01/A-004 included with this addendum.

5. DRAWING A11.1 – ROOM FINISH PLANS AND FINISH SCHEDULE

A. ROOM FINISH SCHEDULE

Add Room D325, as shown in sketch ADD-01/A-003 included with this addendum.

B. FINISH LEGEND, GENERAL FINISH NOTES

Add: Notes 7, 8, and 9 as shown in sketch ADD-01/A-005 included with this addendum.

6. DRAWING H5.4 – HVAC SCHEDULES & DETAILS

Rooftop Energy Recovery Unit Schedule

- A. On DOAS-1, change the supply fan external static pressure from 1.0" to 1.25"
- B. On DOAS-1, change the exhaust fan external static pressure from 1.0" to 1.25"
- C. Change the DOAS-1 MCA from 115.1 to 125 and the MOCP from 125 to 150.

7. DRAWING ED1.1 – ELECTRICAL DEMOLITION GROUND FLOOR CEILING PLAN

- A. Expand drawing showing Emergency Electric D105 and Primary Electric D106
- B. Add Key Plan to show locations of existing FACP, Admin Room, Electrical Rooms D105 & D106, Existing FA annunciator, a scope of work area.

8. DRAWING ED1.3 – ELECTRICAL DEMOLITION THIRD FLOOR

- A. Add (2) receptacles for demolition
- B. Add (2) data outlet for demolition
- C. Add (1) junction box for demolition
- D. Refer to ADD-1/E-001

9. DRAWING EP1.1– NEW FLOOR POWER PLAN

- A. Lobby D321C – Add (1) TVH on north wall.
- B. Welding Booths – Add (2) duplex receptacles on east wall and (1) duplex receptacle on west wall. Connect new receptacles to (2) dedicated circuits DMTP3B-40 and DMTP3B-54
- C. Add keynote #9 for plywood backboard
- D. Refer to sketch ADD-1/E-002

10. DRAWING SC0.1 – SECURITY LEGEND

- A. Add details 1 & 2 for camera mounting.
- B. Refer to sketch ADD-1/E-008

11. DRAWING SC1.1 – NEW SECURITY PLAN

- A. Vestibule D321E: Add (1) door contact, and (1) P3287 camera
- B. Vestibule D321D: Revise camera tag to read "P3287"
- C. Student Corridor D317: Revise camera tag to read "P3287". Moved card reader for corridor door from Tufts' scope to WPS' scope.

- D. Day Boarding Room D321A: Add (1) card reader
- E. Refer to sketch ADD-1/E-003

12. DRAWING SC2.1 – ACCESS CONTROL DETAILS

- A. Detail 5: Revise keyed note # 13 to #9, revise #14 to #8. Remove keyed note #13 & #14 from “DOOR HARDWARE WIRING NOTES”
- B. Refer to sketch ADD-1/E-007

13. DRAWING TC1.1 – NEW TECHNOLOGY PLAN

- A. Classroom A D318: Change TB to PA speaker
- B. Classroom B D319: Change TB to PA speaker
- C. Day Boarding Room D321A: Change TB to PA speaker
- D. IDF D319A: Add keynote #5 to read “WRAP THE ROOM WITH 8'H X 4'W X 3/4"D FIRE RATED PLYWOOD.”
- E. Refer to sketch ADD-1/E-004

14. DRAWING TC1.2 – TUFTS TECHNOLOGY PLAN

- A. Surgery D322M: Moved scope for recording camera from drawing SC1.2 Tufts Security Plan. Revise (1) 2-inch sleeve to 4-inch sleeve. Add (1) 2-inch sleeve.
- B. Induction D322L: Add (1) 2-inch sleeve.
- C. Exam Room 5 D322F: Moved scope for recording camera from drawing SC1.2 Tufts Security Plan.
- D. Refer to sketch ADD-1/E-005

15. TC0.1 TECHNOLOGY LEGEND

- A. Remove “TB” symbol and description.
- B. Revise description for “PA”
- C. Add clock and description
- D. Revised description for “TVHL”
- E. Refer to sketch ADD-1/E-006

16. DRAWING FA0.1 – FIRE ALARM LEGEND

- A. Add Fire Alarm Matrix.
- B. Refer to sketch ADD-1/E-009

17. DRAWING EP4.4 – ELECTRICAL DETAILS

- A. Delete detail 4 – Lighting Inverter Panel Connection Detail.

18. DRAWING EP3.1 – ELECTRICAL PANEL SCHEDULES

- A. Add the following note to all panel schedules

“Circuits without (ETR) or (N) notes shall reuse the existing breaker and the circuit shall be repurposed. Update the Circuit Description as noted on the panel schedule.”

19. DRAWING EP3.2 – ELECTRICAL PANEL SCHEDULES

- A. Add the following note to all panel schedules

“Circuits without (ETR) or (N) notes shall reuse the existing breaker and the circuit shall be repurposed. Update the Circuit Description as noted on the panel schedule.”

- B. Panel: HD3-B - Add (N) note to circuits 12, 14, 16 and 13, 15, 17.

PART 4 – ATTACHMENTS

Documents

- 1. Pre-bid conference sign-in sheet

Specifications

- 1. Section 27 41 20 In-Ceiling Instructional Audio System

Sketches/Drawings

- 1. ADD-1 / A-001 - Partial Campus Plan
- 2. ADD-1 / A-002 – Partial Third Floor Plan – Section D (Partial)
- 3. ADD-1 / A-003 – Room Finish Schedule
- 4. ADD-1 / A-004 – Drawing 9.1 – Lab D317A Casework
- 5. ADD-1 / A-005 – Finish Legend
- 6. ADD-1 / E-001 – Additional Power and Data Demolition
- 7. ADD-1 / E-002 – Additional Power
- 8. ADD-1 / E-003 – WPS Security Plan
- 9. ADD-1 / E-004 – WPS Technology Plan
- 10. ADD-1 / E-005 – TUFTS Technology Plan
- 11. ADD-1 / E-006 – Technology and Electrical Legend
- 12. ADD-1 / E-007 – Tufts’ Door Detail
- 13. ADD-1 / E-008 – Camera Mounting Details
- 14. ADD-1 / E-009 – Fire Alarm Matrix
- 15. ED1.1 – Electrical Demolition Ground Floor Ceiling Plan

PART 5 – RFI'S AND RESPONSES

| QUESTION | RESPONSE |
|---|---|
| The extent of wall painting in D325 is unclear. The Floor Plan on A3.1 has notes calling for all walls except the North to be painted in their entirety but the Room Finish Plan on A11.1 shows painting is much more limited. Which drawing is correct? | See Part 3, note 2 of this addendum. |
| Will the existing exposed deck, overhead structural steel, and MEPs in D325 need to be painted under this contract? | See Part 3, note 2 of this addendum. |
| If the exposed deck, steel, and MEPs in D325 are painted, will they be painted the same color and if not, how many colors will be required? | The existing exposed steel structure at D325 will not be painted. |
| Can you confirm that no painting will be required at any lower-level ceilings shown on A4.2? | See Part 3, note 2 of this addendum. |
| Will the existing exterior galvanized ducts, goosenecks, vents through roof, etc. need to be painted under this contract? Section 09 91 00, Pg. 1, 1.2, B calls for these items to be painted but none of them are called out for paint on the plans. | Existing ducts shall be painted in accordance with 09 91 13, 1.2, C, Exterior METAL, GALVANIZED |
| Will existing doors and frames D325 and D325B need to be painted under this contract? | Door and frames shall be as indicated on the drawings. |
| Will the drywall in wet areas need to be painted with epoxy? Section 09 91 23, Pg. 2, 1.2, G calls for epoxy paint in wet areas but there is no epoxy at walls called out on the plans. | Toilet rooms identified to have wall paint finish on the drawings shall be epoxy, as specified. |
| Section 06 20 00, Pg. 8, 3.5, A, 1 indicates that new wall surfaces behind FRL will need to be primed. Please clarify the following: A) Will existing wall surfaces behind new FRL also need to be primed? B) Which contractor – the Painter or the FRL installer – will be responsible for priming behind FRL? | See Part 3, note 5 of this addendum. |
| Will the new and existing walls behind FRP need to be primed and if so, will the Painting FSB be responsible for applying the primer? | See Part 3, note 5 of this addendum. |
| Regarding the Build America Buy America Act ("BABA"), please confirm the products in this design and that are specified comply with all BABA requirements or otherwise please: 1. Identify any and all General Applicability Waivers related to any products, categories of products or manufactured projects specified for this project; and, 2. Name any and all project level waivers that have been proposed and/or awarded for this project. | See Part 2, note 4 of this addendum. |
| Technology Drawings TC0.1 through TC1.2 show Public Address Speakers. However, there are no specifications for a Public Address System. Please confirm if a Public Address System is to be furnished and installed under the 26 00 00 ELECTRICAL Filed Sub Bid. If a Public Address System is to be furnished and installed under the 26 00 00 ELECTRICAL Filed Sub Bid, please provide system specifications. | See Part 3, notes 13 and 15 of this addendum. |

| QUESTION | RESPONSE |
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| <p>Technology Drawings TC0.1 through TC1.2 show Clocks. However, there are no specifications for a Clock System. Please confirm if a Clock System is to be furnished and installed under the 26 00 00 ELECTRICAL Filed Sub Bid. If a Clock System is to be furnished and installed under the 26 00 00 ELECTRICAL Filed Sub Bid, please provide system specifications.</p> | <p>See Part 3, note 15 of this addendum.</p> |
| <p>Technology Drawings TC0.1 through TC1.2 show Speech Reinforcement Speakers. However, there are no specifications for a Speech Reinforcement System. Please confirm if a Speech Reinforcement System is to be furnished and installed under the 26 00 00 ELECTRICAL Filed Sub Bid. If a Speech Reinforcement System is to be furnished and installed under the 26 00 00 ELECTRICAL Filed Sub Bid, please provide system specifications.</p> | <p>See Part 2, notes 6 & 8 of this addendum.</p> |
| <p>Please advise if Owner or Contractor/CM will buy the builder's risk property insurance for this project. Also, can you confirm that trade contractors/subcontractors of all tiers will be named insureds under the policy per widespread industry practice? Finally, can you tell us what the basic deductible will be under the policy and who will be required to pay it if an accident happens-1) Owner, 2) Contractor/CM, 3) Trade Contractor/Subcontractor?"</p> | <p>Insurance requirements shall be as defined in Section 00 20 00 General Conditions, Article 11; Section 00 60 00 Owner-Contractor Agreement; and Section 00 70 00 Form of Sub-Contract.</p> |
| <p>With respect to the project bid construction schedule and the ongoing uncontrollable impacts to the supply chain, shortages of products and long lead times, we assume the Construction Manager and/or General Contractor has or shall take these long lead times into account when providing their CPM schedules to the Owner, to confirm the as-bid electrical work can be performed within the contract duration.</p> <p>Some designs require equipment with long lead times. Examples of long lead equipment are Switchgear, Transformers, Generators, VFD's, Metering, MCC's, and the electronic components of many telecom systems. Because there are no remedies in the bid document at this time, financial or otherwise, to correct potential long lead times, please confirm the Electrical Engineer has considered equipment lead times when designing the most available equipment and specified products and has received confirmation of product timely availability to meet the contract end date.</p> | <p>The General Contractor and filed sub-bid contractors are fully responsible for the coordination and the timeliness of submissions without delaying the project, as required by Section 01 33 00 Submittal Procedures.</p> |
| <p>Please confirm whether Davis-Bacon wage rates are applicable to this project. Based on our current understanding, they do not apply. If Davis-Bacon wage rates are required, please provide the applicable and updated Davis-Bacon wage determinations so that we can ensure full compliance.</p> | <p>Davis-Bacon wage rates are not required. Wage rates shall be as per Section 00 80 00 Prevailing Wage Rates.</p> |
| <p>Please confirm Electrical and Fire Alarm permit fees will be waived for this project.</p> | <p>No permit fees will be waived. All fees shall be paid in accordance with Section 00 20 00 General Conditions, article 4.7.</p> |
| <p>Please provide a drawing detailing the location of Electrical Rooms D 105 and D 106 in relation to the area of work.</p> | <p>See Part 3, note 7 of this addendum.</p> |

| QUESTION | RESPONSE |
|---|--|
| Will a drawing be provided detailing the anticipated route for electrical feeds between Electric Room D 106 and the two (2) DOAS units on the roof? | See Part 3, note 7 of this addendum. |
| Will a drawing be provided detailing the anticipated route for the electrical feeds between electric room D105 and the new door operator unit / access control panel in the renovated space? | See Part 3, note 7 of this addendum. |
| Please clarify who will be responsible for the removal of ceiling for the installation of conduit runs between the renovated space and first floor Electric Rooms/Fire Alarm equipment locations. | All filed sub-bidders shall be responsible for carefully removing and reinstalling ceilings scheduled to remain to perform their work. |
| Please provide a drawing showing the location of the FA control panel and FA Node #1 servicing the renovated space. | See Part 3, note 7 of this addendum. |
| Please provide information on the current Fire Alarm monitoring/service company. | The City of Worcester Fire Department monitors the fire alarm system. |
| Regarding panel schedules on drawing EP3.1 and EP3.2, please confirm circuit descriptions without (ETR) or (N) notations are existing breakers and shall be for reuse for new circuits. | See Part 3, note 19 of this addendum. |
| Specification Section 26 00 01 1.30 Temporary Power and Lighting "D" refers to temp power for elevators. Please provide clarification and confirm there is no elevator work for this project. | See Part 2, note 6 of this addendum. |
| Specification Section 26 24 16 Part 1 General refers to Specification Section 00 73 00. This specification section is missing from the project specification. Please provide clarification. | See Part 2, note 7 of this addendum. |
| Confirm the existing electrical gear within the space can be used for the construction temp power setup. | Existing electrical gear may be used for construction temporary power. At no time shall power to the remainder of the building in doing so, without prior approval of the owner. |
| A8.8 - GB1 & GB look to be the same item but called out differently. Are both the same 42" grab bar? | See Part 3, note 3 of this addendum |
| In Lab D317A on drawing A9.6; CW 13 is called out but does not exist on A9.1, should we assume Lab 317A casework is CW5? (+CW 12)? | See Part 3, note 4 of this addendum |
| In terms of the security system, is there a specific vendor/programmer we must work with? | Refer to Section 01 60 00 Product Requirements, paragraph 1.6 Owner's Proprietary Products |
| Have the plumbing permit fees been waived? | No permit fees will be waived. All fees shall be paid in accordance with Section 00 20 00 General Conditions, article 4.7. |
| Does the plumbing FSB have to list anything in paragraph E on bid form? | No, there are no filed sub-sub bid requirements for Plumbing. |
| Note in lower right on drawing P3.1 references an autoclave. Confirm the autoclave is by others. If plumber needs to provide a quenching system. Provide more info like model numbers. | Autoclave is by owner. No plumbing connections are required. |
| Will any of the work area be occupied during construction? If so, provide more information. | All areas abutting to the work area will be fully operational and occupied throughout the project. Welding and Metals Technology D325 will be unoccupied and available to contractors during school vacation periods only. Refer to Section 01 |

| QUESTION | RESPONSE |
|--|---------------------------------------|
| | 12 00 Project Phasing Requirements. |
| Drawing EP4.4 detail #4 details a lighting inverter panel. Please confirm there are no Lighting inverters or connections for this project. | See Part 3, note 17 of this addendum. |

END OF ADDENDUM NO. 1

Section 27 41 20
IN-CEILING INSTRUCTIONAL AUDIO SYSTEM
(FILED SUB-BID REQUIRED AS PART OF SECTION 26 00 01)

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. PUBLICLY BID TRADE CONTRACT REQUIREMENTS: As provided under Section 26 00 01 - ELECTRICAL and supplemented under the Bidding Requirements, Contract Forms, and Conditions of the Contract, and applicable parts of Division 1 - GENERAL REQUIREMENTS.
1. Work of this Trade Contract includes all individual specification sections listed in Section 26 00 01.

1.2 RELATED DOCUMENTS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.3 SUMMARY

- A. It is the intent of these specifications that the Contractor, Manufacturer and/or its Authorized System Integrator expeditiously furnishes and installs a system complete in every respect and ready to operate. All miscellaneous items and accessories required for such installation, whether or not each such item or accessory as shown on the plans or mentioned in these specifications, shall be furnished and installed.
- B. The in-ceiling instructional audio system shall be installed as shown on the drawings and as specified herein. The work covered by this section of the specifications includes the furnishing of all labor, equipment, materials and performance of all operations associated with the in-ceiling classroom audio system for a fully functional system.
- C. The school district has standardized on the Lightspeed wireless classroom in-ceiling instructional audio system. This Contractor shall provide Lightspeed Topcat In-Ceiling Instructional Audio System at each location where an in-ceiling classroom audio system speaker is shown on the drawings and as specified herein.

1.4 CODES AND STANDARDS

- A. Complete installation shall meet or exceed the latest edition of following standards:
1. TIA-568: Commercial building telecommunications wiring standard and all current addenda.
 2. TIA-569: Commercial building standard for telecommunications pathways and spaces.
 3. TIA-606: Administration standard for telecommunications infrastructure of commercial buildings.
 4. TIA-607: Commercial building grounding and bonding requirements for telecommunications.
 5. ANSI, ASTM, UL, NEMA, IEEE and FCC standards as applicable.
 6. BICSI Telecommunications Distribution Methods Manual, current edition.

1.5 PROGRAMMING

- A. Coordinate and obtain a written approval of system functionality from the Owner prior to programming.
- B. Perform a walk-through with the Owner and demonstrate the system functionality.
- C. Make any adjustments to system functionality after initial programming if necessary to achieve the desired functionality requested by the Owner. Coordinate all required reprogramming with the Owner as required as part of this contract.
- D. Obtain a written final letter of acceptance from the Owner upon completion of system functionality programming and demonstration.

1.6 SUBMITTALS

- A. Comply with requirements specified in Division 01 and the following:
 - 1. The vendor shall submit certification letter from the manufacturer of submitted equipment certifying that the installer is an authorized and certified installer of the submitted equipment.
 - 2. The vendor shall make all connections at all field devices and at the head-end; and shall make all necessary field adjustments for a fully functional system.
- B. Shop Drawings
 - 1. Prior to assembling or installing the system, the Contractor shall provide complete shop drawings which include the following:
 - a. List the name of the manufacturer's local representative and his/her phone number.
 - b. Table of contents.
 - c. Manufacturer's parts lists
 - d. Product serial numbers
 - e. Catalog cut sheets
 - f. Installation instructions
 - g. Typical wiring diagrams
 - h. Drawings showing equipment locations
 - i. Manufacturer's warranty documents
 - 2. All drawings shall be fully dimensioned.
 - 3. Operating License: Submit evidence of application for FCC Radio Station Authorization prior to installing equipment when required for operation of the equipment.
- C. As-Built Drawings
 - 1. At the conclusion of the project, the Vendor shall provide "as built" drawings. The "as built" drawings shall be a continuation of the Contractors shop drawings as modified, augmented, and reviewed during the installation, check out and acceptance phases of the project. All drawings shall be fully dimensioned and prepared in DWG format using the latest version of AutoCAD.
 - 2. The as-built drawings shall incorporate all updated system riser diagrams prepared in DWG format using the latest version of AutoCAD.
- D. Manuals

1. At the conclusion of the project, the Vendor shall provide copies of the manuals as described herein. Each manual's contents shall be identified on the cover. The manual shall include names, addresses, and telephone numbers of each system integrator installing equipment and systems and the nearest service representatives for each item of equipment for each system. The manuals shall have a table of contents and labeled sections. The manuals shall include all modifications made during installation, checkout, and acceptance. The manuals shall contain the following:
 - a. Hardware Manual
 - 1) The hardware manual shall describe all equipment furnished including:
 - 2) General description and specifications
 - 3) Installation and check out procedures
 - 4) Equipment layout and electrical schematics to the component level
 - 5) System layout drawings and schematics
 - 6) Alignment and calibration procedures
 - 7) Manufacturers repair parts list indicating sources of supply
 - b. Software Manual
 - 1) The software manual shall describe the functions of all software and shall include all other information necessary to enable proper loading, testing, and operation. The manual shall include:
 - a) Use of system and applications software
 - b) Initialization, start up, and shut down
 - c) Alarm reports
 - d) Reports generation
 - e) Data base format and data entry requirements
 - f) Directory of all disk files
 - 2) Definition of terms and functions
2. Operators Manual
 - a. The operator's manual shall fully explain all procedures and instructions for the operation of the system including:
 - 1) Computers and peripherals
 - 2) System start up and shut down procedures
 - 3) Use of system, command, and applications software
 - 4) Recovery and restart procedures
 - 5) Use of report generator and generation of reports
 - 6) Data entry
 - 7) Operator commands
 - 8) Alarm messages and reprinting formats
 - 9) System access requirements
3. Maintenance Manual
 - a. The maintenance manual shall include descriptions of maintenance for all equipment including inspection, periodic preventive maintenance, fault diagnosis, and repair or replacement of defective components.

1.7 MAINTENANCE SERVICE

- A. The Contractor shall provide a one-year guarantee of the installed system against defects in material and workmanship. All labor and materials shall be provided at no expense to the Owner. Guarantee period shall begin on the date of acceptance by the Owner or engineer.
- B. A maintenance contract offering continued factory authorized service of this system shall be made available if requested by the Owner.

1.8 QUALITY ASSURANCE

- A. The Contractor shall currently maintain a locally run business for a minimum of five years and shall be an authorized distributor of the supplied equipment with full warranty privileges.
- B. The Contractor shall maintain at his facility the necessary spare parts in the proper proportion as recommended by the equipment manufacturer to maintain and service the equipment being supplied. This facility shall be available for inspection by the engineer.
- C. The supplying Contractor shall have attended the manufacturer's installation and service school.
- D. The Contractor shall furnish manufacturer's manuals of the completed system including individual specification sheets, schematics, inter-panel and intra-panel wiring diagrams. In addition, all information necessary for the proper operation of the system must be included. Any bidder using other than the specified equipment must provide this information prior to bidding.
- E. As built drawings that include any changes to wiring, wiring designations, junction box labeling and any other pertinent information shall be supplied upon completion of project.
- F. Vendors providing equipment installation services shall use adequate numbers of skilled workmen who are certified by the component manufacturer, thoroughly trained and experienced with the necessary technology and systems, and completely familiar with the specified requirements and methods needed for proper performance of work. The system head-end installation, start-up and commissioning shall be by the manufacturer certified vendor.
- G. Each vendor is required to provide a letter from the manufacturer indicating that they hold a current certification for the specified system.
- H. Use adequate numbers of skilled workers thoroughly trained and experienced on the necessary crafts and completely familiar with the specified requirements and methods needed for the proper performance of the work of this Section. Contractor is required to provide references of three similar installations completed in the last 12 months.
- I. Contractor must provide a project manager who has demonstrated the ability to supervise a project of this magnitude. The Project Manager must be available to attend meetings as required. Acceptance will not be unreasonably withheld.

1.9 WARRANTY

- A. Comply with Section 260001.
- B. The Electrical Trade Contractor shall warranty that all materials furnished shall be free from defects of material for a period of one year from the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Approved Manufacturers
 - 1. Lightspeed.

2.2 BASIS OF DESIGN

- A. The system specified is based upon the Lightspeed Topcat In-Ceiling Instructional Audio System and represents the performance standard upon which any equivalent solution shall be based.
- B. Provide Lightspeed Lightspeed Topcat In-Ceiling Instructional Audio System at each location where an in-ceiling instructional audio system speaker is shown on the drawings.

2.3 SYSTEM DESCRIPTION

- A. The system must have specifications and features that are equivalent to the Lightspeed Topcat In-Ceiling Instructional Audio System including the following:
 - 1. All-in-one, in-ceiling audio system with integrated amplifier, speakers and wireless audio receiver/transmitter.
 - 2. Two-way hybrid speaker system with exciter technology sound panel and low frequency cone driver.
 - 3. Cross over technology to deliver high speech intelligibility and full range sound with even distribution throughout the classroom.
 - 4. Up to 2 microphones for whole room instruction, team-teaching or student sharing.
 - 5. Pendant-style Flexmike™ classroom microphone with audio input utilizing Access Technology (1.9 GHz) for transmission. IR not acceptable.
 - 6. PageFirst emergency page priority.
 - 7. Relay closure input to mute all classroom audio when signal is detected.
 - 8. Contact Closure output to trigger alert or other action from teacher microphone.
 - 9. In-Ceiling mounted.
 - 10. Suitable for use in air-handling spaces (plenum-rated).
 - 11. System must have easily accessible audio output to connect with a computer or other recording device for lesson capture.
 - 12. Activate Charging Station with Access Technology, Bluetooth, and Wireless Media Connectivity for integration with mobile devices and laptops:
 - a. Includes 2 channels of 2-way Bluetooth Audio.
 - b. 4 audio input connections, 2 audio outputs with volume controls.
 - c. Cradle charging for 2 pendant microphones, eight (8) 2-way audio Pods.
 - d. USB ports to charge up to four (4) additional 2-way audio Pods.
 - e. Bluetooth connection with Activate mobile app for control, streaming and audio/video recording of classroom instruction and interaction.
 - f. Mobile device control of system volume levels, Activate Pod selection, and advanced system settings.
 - 13. Activate Pods with 2-way audio communication featuring the following functionality:
 - a. Integrated speaker and microphone to enable 2-way communication between the teacher and each small group.
 - b. Wireless audio communication and battery power for maximum portability.
 - c. Up to 12 speaker Pods can be connected to Topcat for each small student group.
 - d. Enables student sharing directly from the Pods so students can be clearly heard by the whole class.
 - e. Must include a call button allowing students to notify the teacher when they need assistance.
- B. The amplifier must contain a 25/70V page mute function (PageFirst™) that passively detects the audio signal of a page coming through the 25/70V PA system without compromising system performance or voiding warranties. As an audio signal is sent to the PA speaker, the PageFirst™ detects that signal and immediately mutes the Topcat audio amplifier.

- C. The amplifier must contain a contact closure input connection to detect a signal from Fire Alarm, IP Paging System or other device and mutes all amplifier audio to ensure emergency alerts from external systems can be heard clearly.
- D. The amplifier must contain a contact closure output to interface with external alert notification system, enabling an alert to be triggered by the teacher microphone with a button press.
- E. The system must produce high speech intelligibility and full-range multimedia quality sound with excellent distribution throughout a classroom.
- F. The system must be capable to be installed in a classroom with no wires installed in or on the walls. The system must be fully operational without speaker wires or sensor cables.
- G. The system must be compatible and expandable to operate with 2-way small group speaker Pods allowing interoperability between both small group and whole group instruction.
- H. The system shall carry a standard warranty equivalent to the Lightspeed 5-year Warranty.

2.4 IN-CEILING CLASSROOM AUDIO SYSTEM SPECIFICATIONS

- A. Furnish and install in-ceiling classroom audio system at each location shown on the drawings.
- B. Features:
 - 1. Power output: 20 Watts RMS
 - 2. Acoustic Frequency response: 60 Hz to 18 kHz -10dB
 - 3. AC Mains Power Input: 100-240V ~ 50/60Hz 1.5A
 - 4. DC Power Input: 24V/2.5A
 - 5. Signal-to-noise: 60 dB
 - 6. Total Harmonic Distortion: <1%, 10 W
 - 7. Wireless Communication: Access Technology (1.9 GHz)
 - 8. Automatic power on when Flexmike is powered on and linked
 - 9. Dimensions (W x D x H): 24" x 12" x 3.7" (Removable side spacers to fit international ceiling grids; 595mm x 295mm x 94mm)
 - 10. Weight: 13.5 lbs. (6.1 kg)
 - 11. Controls:
 - a. (1) Tone control
 - b. (1) Audio input volume control
 - c. (1) PageFirst sensitivity adjustment
 - 12. Connections:
 - a. (1) Direct AC mains power input
 - b. (1) Optional DC Power Input
 - c. (1) Audio input (Longer cable runs may require a ground loop isolator in order to prevent audio hum caused by a ground loop.)
 - d. (1) Audio in from another Topcat
 - e. (1) Audio out to another Topcat
 - f. 6-pin euro-block system interface with:
 - 1) 24/70V page-sensing mute (PageFirst™)
 - 2) Contact closure input mute
 - 3) Contact closure output trigger
 - 13. Wireless audio range: up to 200 feet
 - 14. Integrated 2-Way Hybrid Speaker System:

- a. Description: exciter technology sound panel plus low frequency cone driver
 - b. Integrated cross-over technology
 - c. Panel Size: 13.75" x 6.75"
 - d. Cone Driver Size: 5.25"
 - e. Overall Frequency Response: 60 Hz to 18 kHz -10dB
 - f. Impedance: 8 Ω
 - g. Power Handling: 25 W
- C. The in-ceiling classroom audio system shall use bi-directional wireless Access Technology to communicate with up to three wireless microphones.
- D. The in-ceiling classroom audio system shall use bi-directional wireless Access Technology to integrate with other audio sources in the classroom.
- E. The in-ceiling classroom audio system shall use bi-directional wireless Access Technology to send a mixed audio output to a media connector or Activate Station located at a convenient/student accessible location in the classroom.
- F. The in-ceiling classroom audio system shall use bi-directional wireless Access Technology to communicate with up to 12 optional tabletop speaker Pods available to facilitate small group instruction.
- G. The all-in-one system must contain a Page mute function (PageFirst™) that passively detects the audio signal of a page coming through the PA system without compromising system performance or voiding warranties. As an audio signal is sent to the PA speaker, the PageFirst passive sensor clip detects that signal and immediately mutes the Topcat.
- H. The amplifier must contain a contact closure input connection to detect a signal from Fire Alarm, IP Paging System or other device and mutes all amplifier audio to ensure emergency alerts from external systems can be heard clearly.
- I. The amplifier must contain a contact closure output to interface with external alert notification system, enabling an alert to be triggered by the teacher microphone with a button press.

2.5 FLEXMIKE PENDANT-STYLE MICROPHONE / TRANSMITTER

- A. Furnish and install two (2) Flexmike pendant-style wireless microphones at each in-ceiling instructional audio system.
- B. Features:
1. Description: the pendant-style Flexmike transmitter shall contain microphone volume control on the unit allowing users to adjust volume level from anywhere in the classroom. The Flexmike shall be capable of being worn around a teacher's neck as a hands-free microphone via the lavalier cord or to be used as a handheld student pass-around microphone. The Flexmike must be rechargeable via cradle charger or USB power. It must have a user replaceable, snap-in rechargeable battery pack.
 2. Lanyard: adjustable length with magnetic clasp
 3. Wireless communication: Access Technology (1.9 GHz)
 4. Transmission range: up to 200 ft (60m)
 5. Audio distortion: <1%
 6. Integrated microphone type: uni-directional electret
 7. Digital audio interface: USB-C 2-way digital audio interface
 8. Earbud output: 3.5mm (for monitoring optional Activate Pods)
 9. Push button volume control: +/- 6dB (total range = 12 dB)

10. Power: on/off/mute button
11. Battery Power: 3.7V Li-Ion battery pack
12. Battery run time: 8 hours (fully charged)
13. Charging: via cradle charger or USB-C cable
14. Cradle Charger: 2-slot drop-in cradle charger capable of charging 2 microphones
15. Cradle Charger Power: 5V USB-C, charging off AC power or computer USB
16. Pairing: IR emitter to enable one-button pairing with amplifier
17. Dimensions (L x W x H): 2.9" x 1.1" x 0.7" (74 x 28 x 18mm)
18. Weight: 1.2 oz (34g)

2.6 ACTIVATE CHARGING STATION WITH ACCESS TECHNOLOGY, BLUETOOTH AND WIRELESS MEDIA CONNECTIVITY

- A. Furnish and install one (1) Activate Charging base with built-in Bluetooth and Media Connector for each in-ceiling instructional audio system speaker.
- B. Integration with Activate mobile app for control, streaming and audio/video recording of classroom instruction and interaction.
- C. Mobile device control of system volume levels, Activate Pod selection, and advanced system settings.
- D. Mobile app functionality: Bluetooth interface with companion mobile application with the following functionality:
 1. Control and connect to small group 2-way audio Pods
 2. Adjust system audio levels and tone control
 3. Mobile device audio streaming from audio books, podcasts, music, etc.
 4. Audio/video recording synched with microphone and Pod audio
- E. Features:
 1. Wireless Communication: Access Technology (1.9 GHz + RF4CE), Bluetooth audio (2 channels), Bluetooth LE (2 channels)
 2. Wireless range: Up to 200 ft. (60m) from Topcat, up to 100 ft. (30m) from mobile device.
 3. Audio frequency response: 80 Hz to 7 kHz \pm 3 dB
 4. Audio distortion: <1%
 5. Cradle charging: 2 Flexmikes; 8 Pods
 6. USB charging ports: Two (2) 5V/0.3A charging for Pods; Two (2) 5V/1.0A charging for mobile devices or Pods.
 7. DC Power Input: 24V/1.75A
 8. Auxiliary Power Input: 5V USB-C from portable power source (no device charging)
 9. Audio Inputs: (4) 3.5mm stereo jacks with volume control
 10. Bluetooth Audio: (2) independent 2-way Bluetooth audio channels
 11. Audio Outputs: (2) 3.5mm jack with volume control
 12. Volume controls: Audio input, tone, audio output with 10-segment level indicator
 13. Device Pairing: (2) Push buttons for Bluetooth device pairing, (1) push button for Access device registration.
 14. Mounting: table-top
 15. Dimensions (W x D x H): 13.3"x 5.9"x 1.9" (340 x 150 x 52mm)
 16. Weight: 1.85 lbs. (0.84kg)

2.7 2-WAY AUDIO PODS FOR SMALL GROUPS

- A. Furnish and install (6) 2-way audio pods for each space with in-ceiling instructional audio system.
- B. Features:
 - 1. Description: 2-way audio Pod with integrated speaker and microphones. Up to 12 Pods can be connected to a single audio system.
 - 2. Wireless Communication: Access Technology (1.9 GHz)
 - 3. Wireless range: Up to 200 ft. (60m) from Topcat; up to 100 ft. (30m) with walls
 - 4. Integrated speaker: 1" high output speaker
 - 5. Power output: 1 Watt per Pod speaker
 - 6. Integrated microphones: Two (2) Omni-directional electret with noise rejection
 - 7. Headphone output: 3.5mm
 - 8. Controls: Power on/off button, volume up/down buttons, teacher call button
 - 9. Battery power: 2.5V NiMH rechargeable battery pack
 - 10. Battery charging: 2 contact for cradle charging + 5V/0.3A micro-USB
 - 11. Battery life: 10+ hours (fully charged)
 - 12. Dimensions: 5.2" x 2.1" 1.1" (132 x 54 x 28mm)
 - 13. Weight: 6.4 oz. (181g)

2.8 INTEGRATING THE TOPCAT WITH OTHER AUDIO SOURCES

- A. The wireless Media Connector must have four audio inputs to allow other audio sources to be wirelessly transmitted and played through the Topcat system. Computers, DVD/VCR's, TV's, CD's, MP3's etc. may be connected into the Media Connector using appropriate patch cords. The Media Connector must also receive audio back from the Topcat to output the mixed audio signal of both microphone channels and multimedia for recording purposes and interface with assistive listening devices. See drawings for requirements.
- B. The Topcat system vendor will furnish and install 3.5MM stereo input cable from the projector audio out to the Topcat speaker.

2.9 INTEGRATING THE TOP CAT WITH PUBLIC ADDRESS SYSTEM

- A. The Topcat system vendor will make termination of the two-conductor cable from the public address (PA) system speaker to the Topcat speaker for PA override. Coordinate requirements with the PA system vendor.
- B. A teacher can use their Lightspeed Flexmike microphone to send an alert through the building's public address system. A Contact Closure on the Lightspeed Topcat system is a normally open relay that can be closed by pressing the up and down volume buttons at the same time for 3 seconds on the Flexmike. This activates the contact closure function on the Topcat, which external systems use to perform a prescribed action, such as notifying the appropriate parties of a classroom alert.

2.10 The Topcat system vendor will make termination of the cable from the public address (PA) system emergency call station input. Coordinate requirements with the PA system vendor.

2.11 REGULATORY AND CERTIFICATIONS

- A. The classroom audio system and its components shall be manufactured using lead-free processes and free of other materials harmful to the environment (RoHS and WEEE compliant).
- B. The classroom audio system and its components shall be listed to UL/CUL standards and requirements for electrical safety by Underwriters Laboratories Inc.
- C. The classroom audio system must be suitable for use in air handling spaces and carry appropriate certifications (UL 2043).
- D. The classroom audio system and its components shall be CE Certified and conform with the essential requirements of the following European Union Directives: 2014/30 EU Electromagnetic Compatibility (EMC), 2014/35/EC Low Voltage Directive (LVD) and RED 2014/53EU.
- E. The classroom audio system and its components shall comply with Part 15 of the FCC rules as a Class B digital device (FCC Certified).

PART 3 - EXECUTION

3.1 SYSTEM PERFORMANCE

- A. Install in accordance with Manufacturer's installation instructions.
- B. Final adjustment: Upon completion, the system shall be clean, adjusted and left in perfect operating condition. Transmitters shall be plugged in and charging and Daily Use Guide should be left in a conspicuous place. The full user manual shall be available for download from the manufacturer's website.
- C. Provisions: There shall be no audible components of hum, noise, or distortion.

3.2 INSTALLATION

- A. The ceiling cavity is being used as plenum return. Provide plenum rated cables, conduit, backboxes in all plenum rated ceilings, rated walls, penetrations through wall, floors and ceilings and where required by Local, State or Federal Codes.
- B. Provide and install in-ceiling classroom audio system at the locations shown on drawings as required.
- C. All equipment and enclosures described in this specification shall be permanently attached to the structure and held firmly in place. Supports shall be adequate to support their loads per manufacturers specifications.
- D. The process of testing the Audio Sound System may necessitate moving and adjusting certain component parts (ex. loudspeakers). Contractor shall provide at no additional cost to the owner.
- E. Take precautions as necessary to prevent and guard against electromagnetic and electrostatic noise interference. Long cable runs, unshielded and / or poorly shielded cable, multiple ground

paths and improper grounding may all contribute to the production of a low frequency hum. In most cases a ground loop isolator (not provided) placed in line will attenuate or possibly eliminate the hum.

- F. Wireless Media Connector to be located per Owner's request. Contractor to ensure all Media Connectors are properly registered and all volume controls are set properly via a field test in every classroom. Ensure power is available for Media Connector.
- G. Activate Charging Station shall be located per Owner's request. Contractor to ensure all Media Connectors or Activate Charging Stations have power available, are properly registered, and all volume controls are set properly via a field test in every classroom.
- H. System wiring shall be in accordance with good engineering practices as established by the EIA and NEC. Wiring shall meet all established state and local electrical codes. All wiring shall test free from grounds and shorts. Complete system shall be installed in strict accordance with manufacturer's recommendations.
- I. Install wiring in conduit and raceways except as indicated.
- J. Conceal wiring installations where possible.
- K. Cable Support: Securely fasten to the permanent building structure where not installed in raceway. Support at regular intervals appropriate to the cable and wire size. Cable and wiring shall not lay loose on ceiling tiles or grids. Install parallel to building lines and follow building structure. Use cable support equipment/hardware recommended by the manufacturer.
- L. Cable Pulling: Do not exceed manufacturer's recommended pulling tensions. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between indicated termination, tap, or junction points. Remove and discard cable where damaged during installation and replace it with new cable.
- M. Wiring within Enclosures: Bundle, lace, and trim the conductors to terminal points with no excess. Provide and use lacing bars and distribution spools.
- N. Identify and tag all cables with permanent type markers to denote location served.
- O. Install and wire equipment in accordance with accepted engineering and installation practices. Only the highest degree of workmanship will be accepted.
- P. Arrange equipment to facilitate access for maintenance and working space.

3.3 TOPCAT AUDIO INTEGRATION USING ACTIVATE STATION

- A. The wireless Activate Station must have four audio inputs plus two Bluetooth audio channels to allow other audio sources to be wirelessly transmitted and played through the Topcat system. Computers, laptops, mobile devices, LCD displays, etc. may be connected into the Activate Station via Bluetooth or using the appropriate patch cable. The Activate Station must also receive audio back from the Topcat to output the mixed audio signal of both microphone channels as well as selected Pods for audio/video recording to the mobile device and interface with assistive listening devices. Activate Station must also communicate with mobile devices via Bluetooth LE for selection and control of small group audio Pods and system volume levels.

3.4 COMMISSIONING

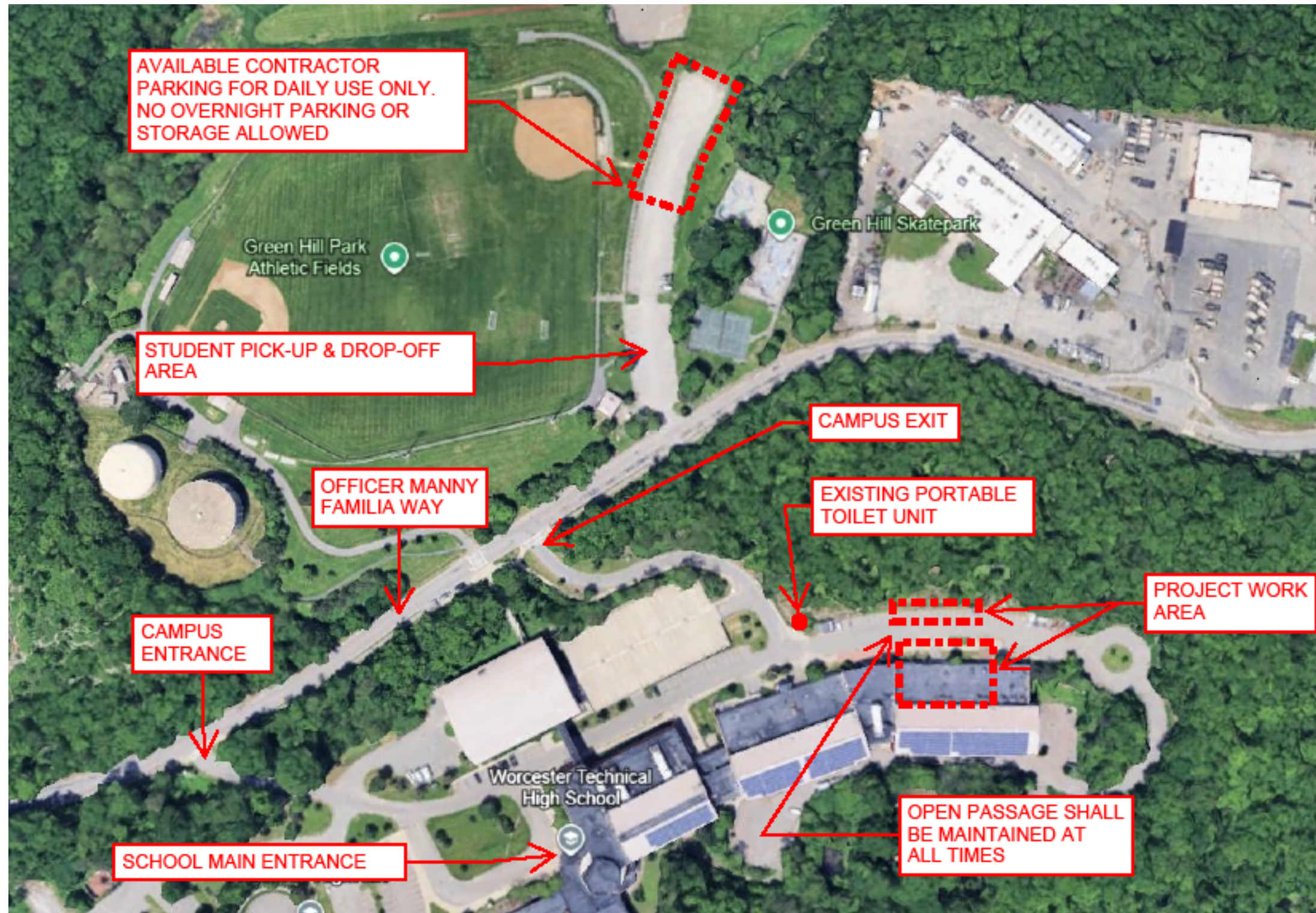
- A. Comply with requirements specified in Division 1.

- B. Engage a factory-authorized service representative to supervise and assist with startup service. Complete installation and startup checks according to the approved manufacturer's written instructions.

3.5 TRAINING AND SERVICE

- A. Comply with Section 26 00 01.
- B. Conduct two 4-hour training sessions. Train the Owner's maintenance personnel on procedures and schedules related to start up and shutdown, troubleshooting, servicing, and preventive maintenance.
- C. Conduct four 4-hour training sessions. Train teachers and administration personnel on system operation.

End of Section



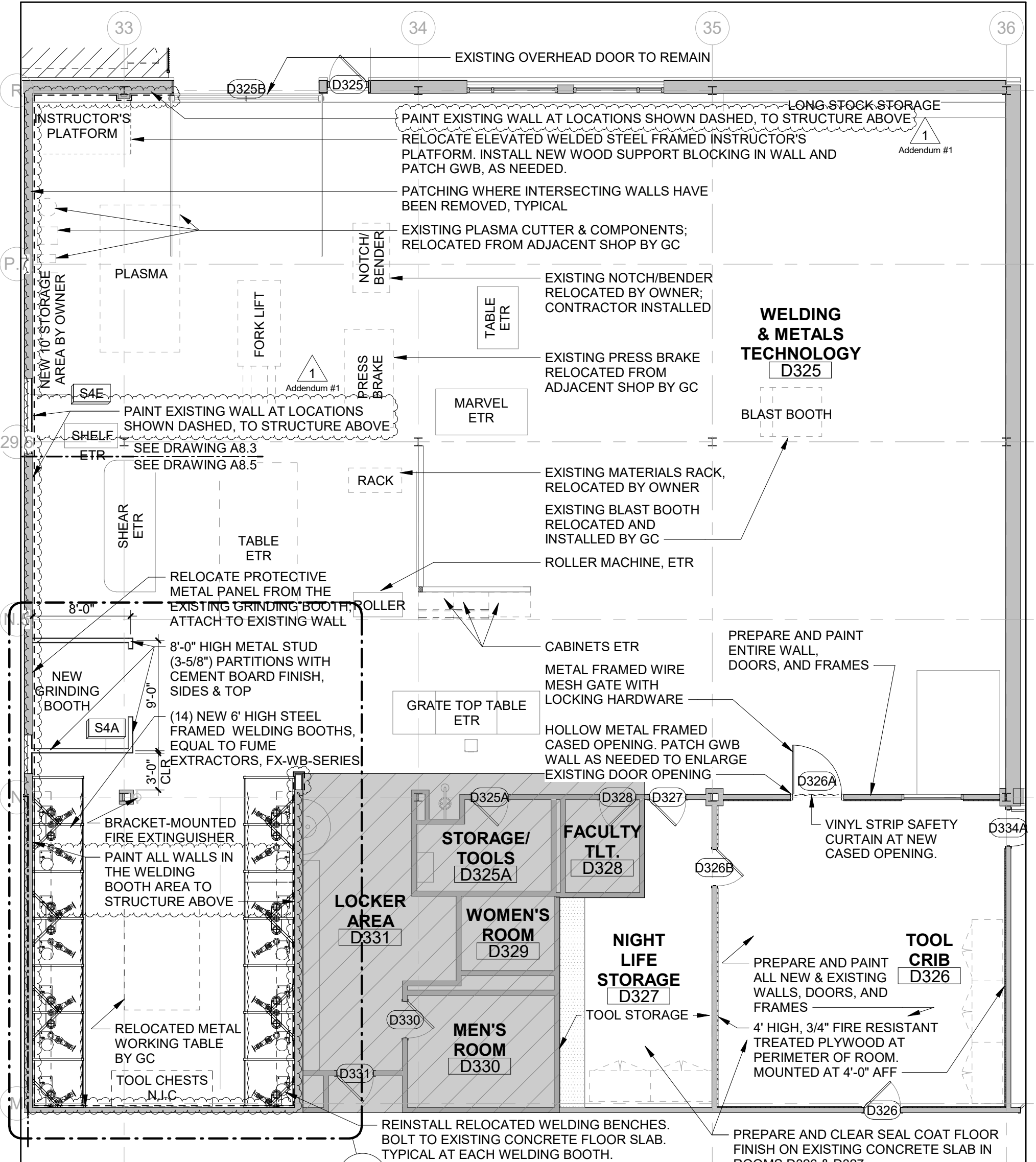
1
Addendum 1

DATE: 03/23/26
DRAWING NUMBER:
ADD-01
A-001

REFERENCE:
DRAWING TITLE:
Addendum 1 -
Partial Campus
Plan


PROJECT TITLE:
Tufts Vet Tech Clinic Renovation
Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

ARCHITECT:
LPA|A
LAMOUREUX PAGANO ASSOCIATES |
ARCHITECTS
lpaa.com



- GENERAL NOTES**
1. PATCH ALL WALL SURFACES WHERE ABUTTING WALLS, EQUIPMENT, DEVICES, AND FIXTURES HAVE BEEN REMOVED. REFER TO DEMOLITION DRAWINGS.
 2. REFER TO DRAWINGS A8.0 THROUGH A8.8 FOR ENLARGED PLANS AND ADDITIONAL INFORMATION.
 3. REFER TO DRAWINGS A9.1 TO A9.3 FOR CASEWORK/MILLWORK.
 4. ALIGN SURFACES OF NEW WALL WITH FACE OF EXISTING ADJACENT WALLS, WHERE APPROPRIATE.
 5. THE FINAL LOCATION OF THE RELOCATED WELDING SHOP EQUIPMENT SHALL BE DETERMINED IN THE FIELD. THE GC SHALL COORDINATE ALL ELECTRICAL CONNECTIONS IN RELATION TO THE EQUIPMENT LOCATION.


1 Partial Third Floor Plan - Section D (Partial)
 A3.1 SCALE: 1/8" = 1'-0"

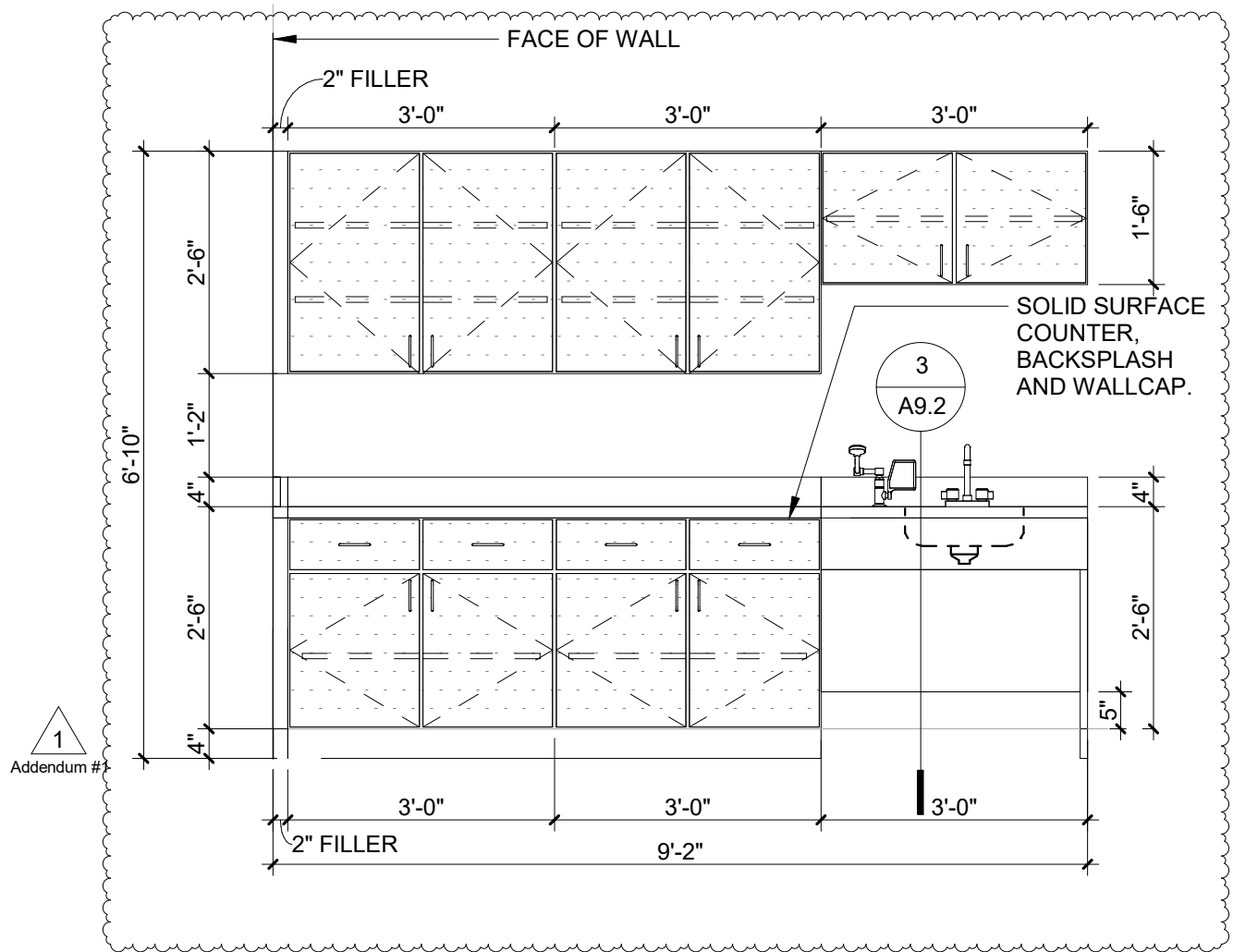
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|---|--|--|--|
| <p>ARCHITECT:</p>  <p>LAMOUREUX PAGANO ASSOCIATES ARCHITECTS lpa.com</p> | <p>PROJECT TITLE:</p> <p>Tufts Vet Tech Clinic Renovation</p> <p>Worcester Technical High School 1 Officer Manny Familia Way, Worcester, MA 01605</p> | <p>REFERENCE:</p> <p>DRAWING TITLE:</p> <p>Addendum 1 - Partial Third Floor Plan - Section D (Partial)</p> | <p>DATE: 03/24/26</p> <p>DRAWING NUMBER:</p> <p>ADD-01 A-002</p> |
|---|--|--|--|

| ROOM FINISH SCHEDULE (CONTINUED) | | | | | | |
|----------------------------------|-----------------------------|--|-------------|---|------------------|--|
| Room Number | Room Name | Floor Finish | Base Finish | Wall Finish | Ceiling Finish | Comments |
| D322F | EXAM ROOM 5 | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W1 |
| D322G | EXAM ROOM 6 | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W1 |
| D322H | EXAM ROOM 7 | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W1 |
| D322J | BEREAVEMENT | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W1 |
| D322K | DENTAL | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W2 |
| D322L | INDUCTION | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W2 |
| D322M | SURGERY | EPOXY | 4" EPOXY | FRP / GWB: PAINT | ACT-1 | W2 |
| D322N | X-RAY | EPOXY | 4" EPOXY | GWB: PAINT | ACT-1 | |
| D322P | DOG RECOVERY | EPOXY | 4" EPOXY | FRP/ GWB: PAINT | ACT-1 | W2 |
| D322Q | CAT RECOVERY | EPOXY | 4" EPOXY | FRP/ GWB: PAINT | ACT-1 | W2 |
| D323 | OFFICE CORRIDOR | LINOLEUM TILE | 4" VINYL | GWB; PAINT | ACT-1 | |
| D323A | STORAGE | LINOLEUM TILE | 4" VINYL | GWB; PAINT | ACT-1 | |
| D323B | STAFF TLT | EPOXY | 4" EPOXY | CERAMIC TILE | ACT-1 | |
| D323C | CLINIC | LINOLEUM TILE | 4" VINYL | GWB: PAINT | ACT-1 | |
| D323D | CONFERENCE | LINOLEUM TILE | 4" VINYL | GWB: PAINT | ACT-1 | |
| D323E | FACULTY | LINOLEUM TILE | 4" VINYL | GWB: PAINT | ACT-1 | |
| D324 | ELECTRICAL ROOM | EXISTING CONCRETE | - | EXIST.; PAINT | EXIST.; PAINT | |
| D325 | WELDING & METALS TECHNOLOGY | EXISTING CONCRETE; PAINT AT WELDING BOOTH AREA AS INDICATED ON FINISH FLOOR PLAN | 4" VINYL | EXIST; PAINT, ONLY TO EXTENTS INDICATED ON FLOOR PLAN | EXIST. TO REMAIN | VINYL BASE APPLIED ONLY TO NEW WALLS OR EXISTING WALLS RECEIVING NEW PAINT |

* SEE FLOOR PLAN NOTES FOR FINISHES IN WELDING & METAL TECHNOLOGY SUITE D325

1
Addendum #1

| | |
|--|--|
| DATE: 03/24/26 | DRAWING NUMBER: ADD-01 A-003 |
| REFERENCE: DRAWING TITLE: Addendum 1 - Room Finish Schedule | |
| PROJECT TITLE: Tufts Vet Tech Clinic Renovation Worcester Technical High School 1 Officer Manny Familia Way, Worcester, MA 01605 | |
| ARCHITECT:  LPA A LAMOUREUX PAGANO ASSOCIATES ARCHITECTS lpaa.com | |



CW
13

LAB D317A CASEWORK.

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

ARCHITECT:



LAMOUREUX PAGANO
ASSOCIATES | ARCHITECTS
lpaa.com

PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

DRAWING TITLE:

ADDENDUM 1 – DRAWING 9.1 – LAB D317A CASEWORK

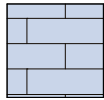
DATE: 04/24/14

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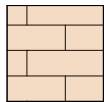
ADD-01
A-004

FINISH LEGEND

LINOLEUM TILE

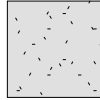


TL1
10X40 TILES, RUNNING
BOND INSTALL

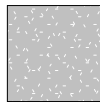


TL2
10X40 TILES, RUNNING
BOND INSTALL

EPOXY

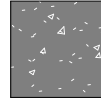


EP1



EP2

CONCRETE



CP
PAINTED CONCRETE

ACCENT PAINT



PT-2
LIGHT BLUE



PT-3
DARK BLUE

GENERAL FINISH NOTES:

1. ALL EXISTING CONCRETE FLOOR SURFACES SCHEDULED TO RECEIVE EPOXY OR RESILIENT FLOORING SHALL BE PREPARED BY MECHANICALLY ABRASION AND FULLY COVERED WITH LEVELING COMPOUND IN ACCORDANCE WITH 09 05 06.
2. COORDINATE LOCATION OF ALL FLOOR BOXES WITH ARCHITECT
3. FLOOR TRANSITION DETAILS LOCATED ON DRAWINGS A11.3
4. WALL BASE DETAILS ARE LOCATED ON DRAWING A11.3
5. ALL TRANSITIONS ARE TO BE CENTERED UNDER DOOR; AS OCCURS; U.O.N
6. ALL PAINTED WALLS TO BE PT-1 U.O.N.
7. WALLS SCHEDULED TO RECEIVE FRL FINISH TO RECEIVE ONE COAT OF PRIMER.
8. WALLS SCHEDULED TO RECEIVE FRP FINISH SHALL NOT BE PAINTED. ALL WALLS SHALL BE CLEAN AND SMOOTH PRIOR TO INSTALLING FRP.
9. ALL NEW EXPOSED CEILING MOUNTED PIPING, CONDUIT, AND DUCTWORK AT EXPOSED STRUCTURE SHALL BE PAINTED.



Addendum #1

ARCHITECT:



LAMOUREUX PAGANO
ASSOCIATES | ARCHITECTS
lpaa.com

PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

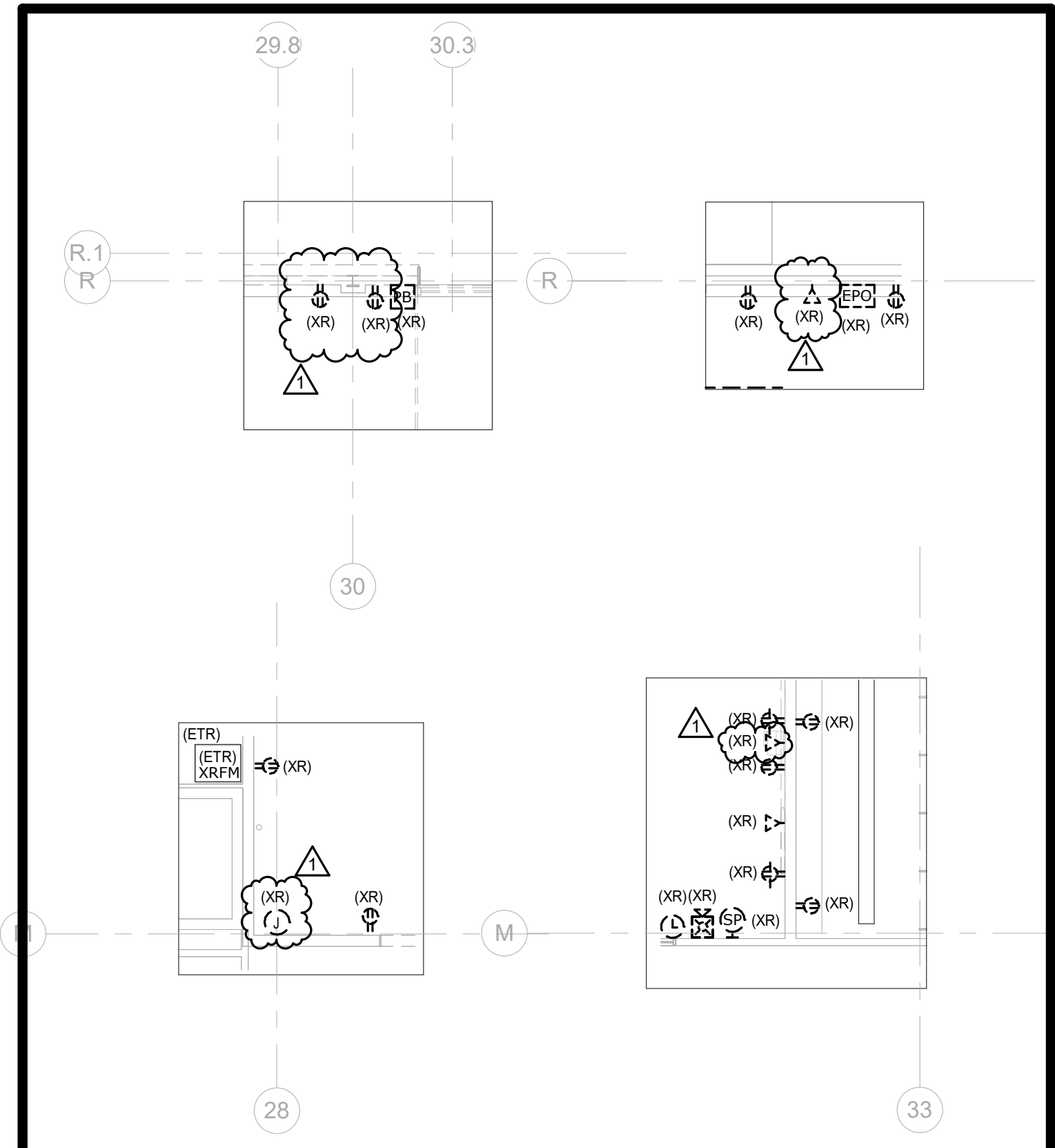
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Addendum 1 - Finish Legend

DATE: 03/24/26

DRAWING NUMBER:

ADD-01
A-005



ARCHITECT:



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PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

REFERENCE: ED1.3

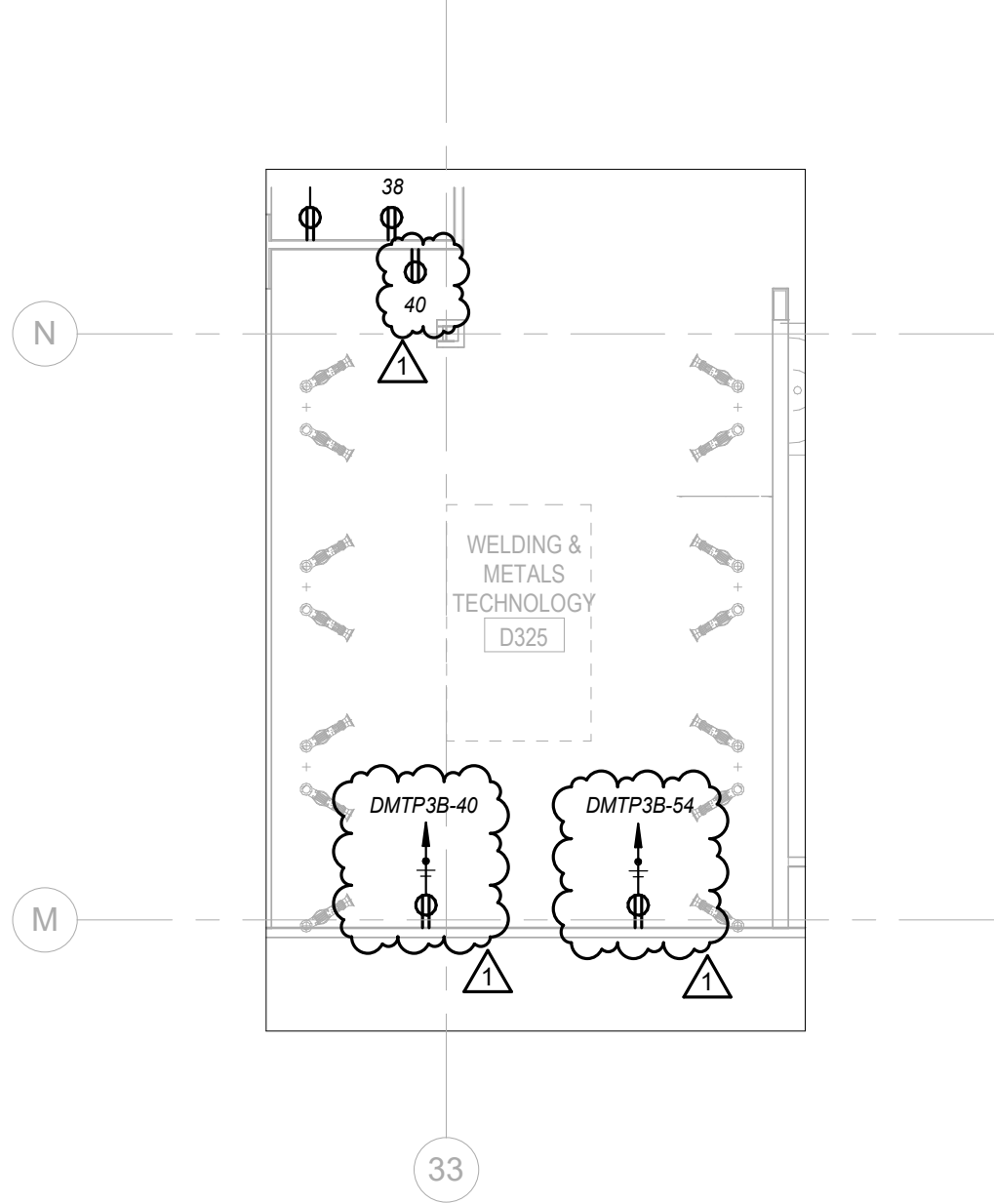
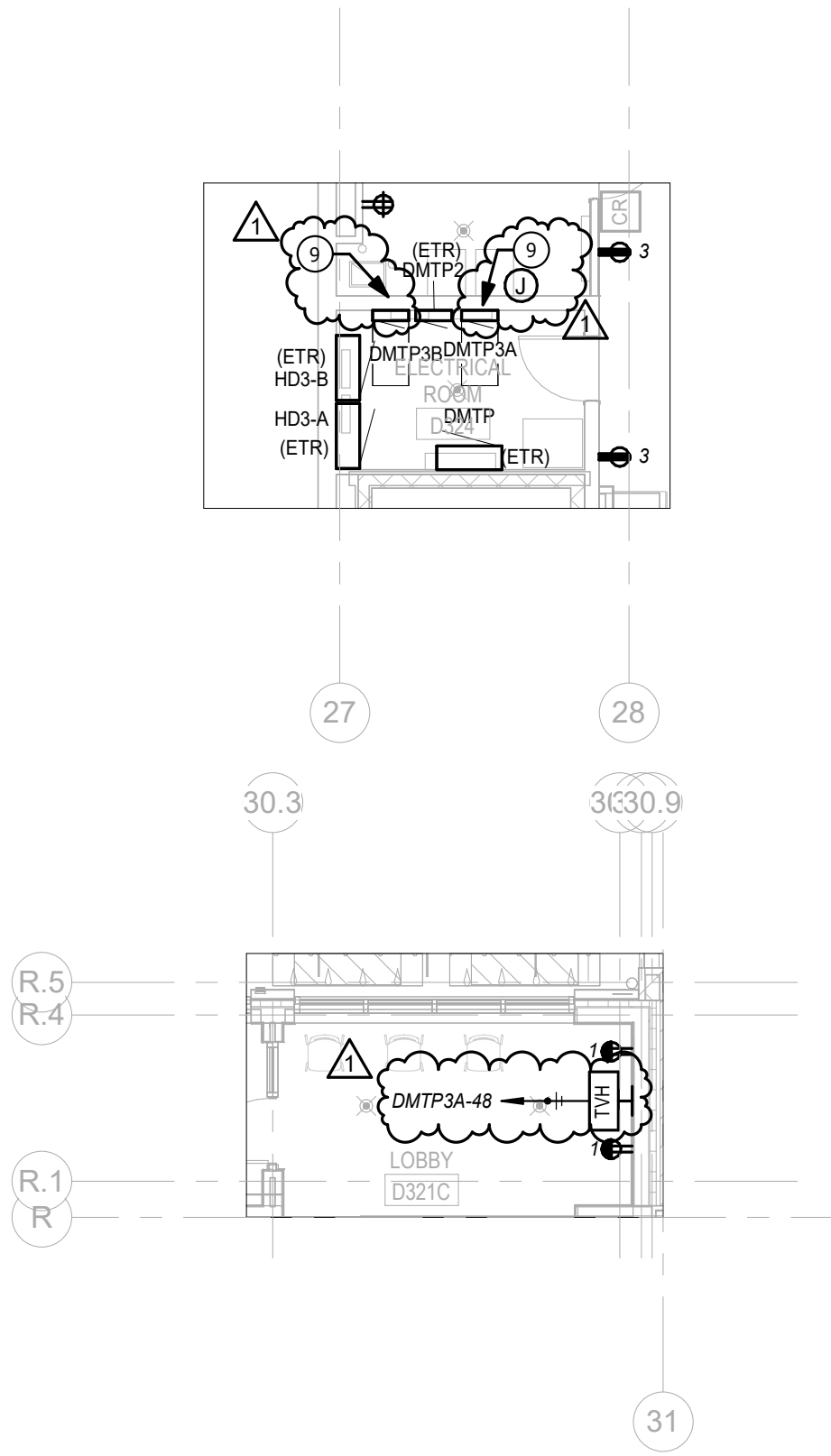
DRAWING TITLE:

Additional Power
and Data Demolition

DATE: 03/24/26

DRAWING NUMBER:

ADD-1
E-001



KEYED NOTES FOR EP1.1

9 FURNISH AND INSTALL 3/4"D FIRE RATED PLYWOOD FOR PANELBOARD MOUNTING .

ARCHITECT:



PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
 1 Officer Manny Familia Way, Worcester, MA 01605

REFERENCE: EP.1.1

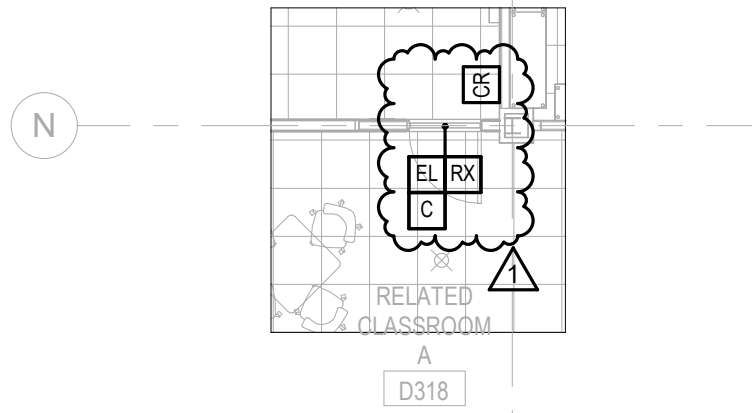
DRAWING TITLE:

Additional Power

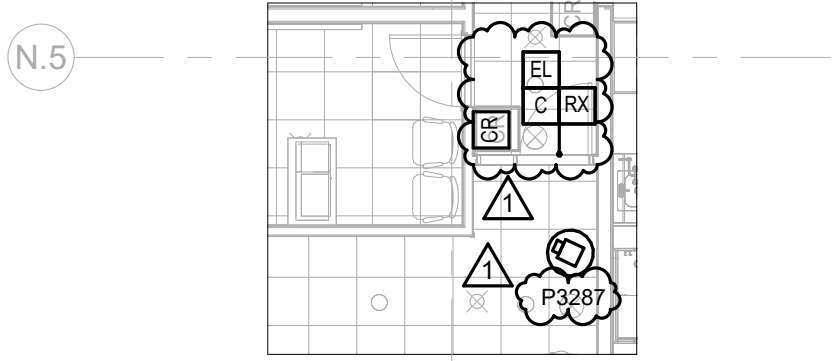
DATE: 03/24/26

DRAWING NUMBER:

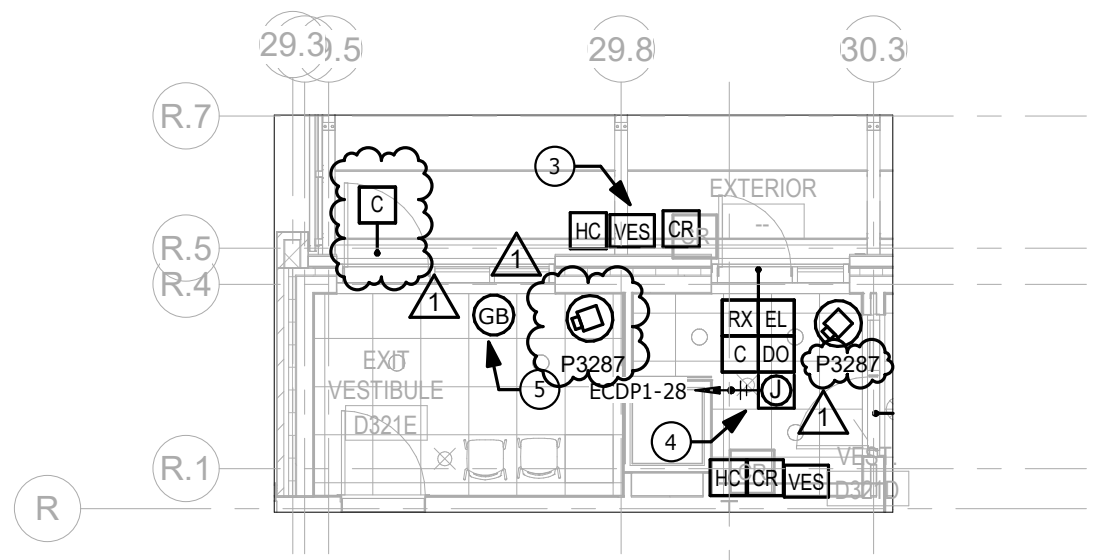
ADD-1
 E-002



1 ADD-1-Boardroom Reader
1/8" = 1'-0"



2 ADD-1 - Student Corridor D317
1/8" = 1'-0"



3 ADD-1 - Vestibule D321D & D321E
1/8" = 1'-0"

ARCHITECT:



PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

REFERENCE: SC1.1

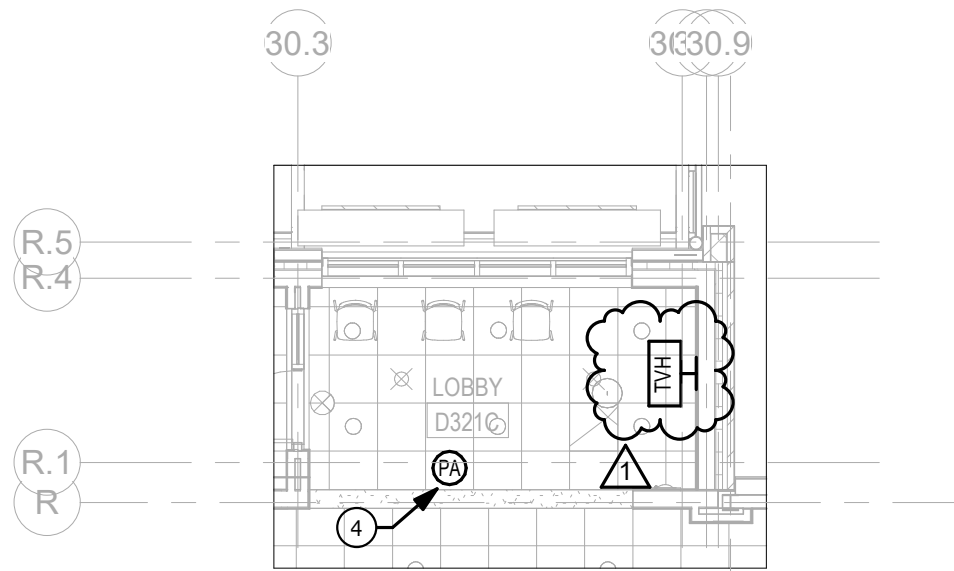
DRAWING TITLE:

WPS - Security Plan

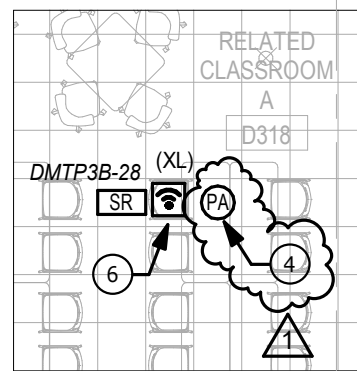
DATE: 03/24/26

DRAWING NUMBER:

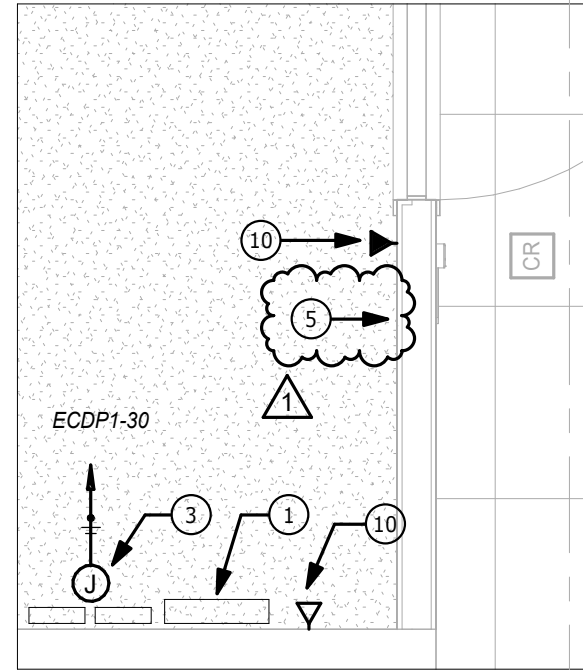
ADD-1
E-003



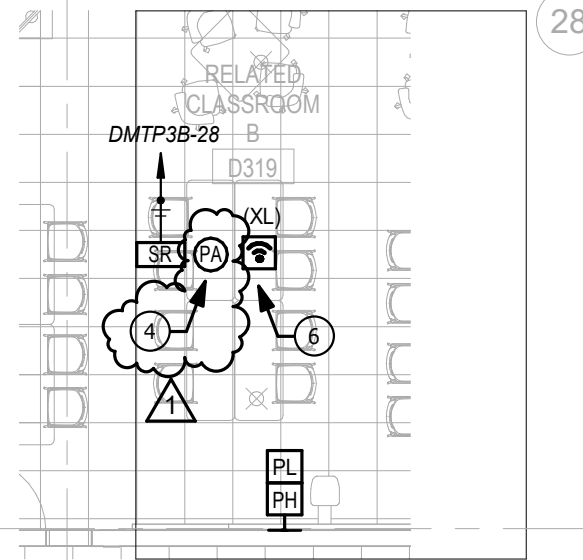
4 ADD-1 - Lobby D321C
1/8" = 1'-0"



1 ADD-1 - Classroom A D318
1/8" = 1'-0"

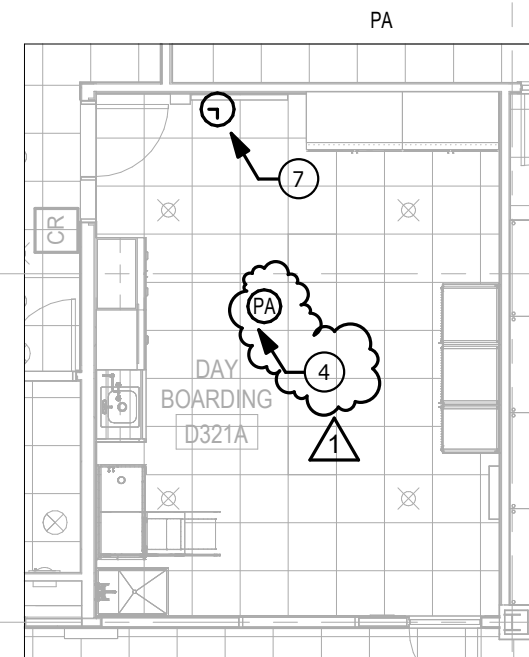


5 ADD-1 - Enlarged IDF Room D319A
1/2" = 1'-0"



2 ADD-1 - Classroom B D319
1/8" = 1'-0"

KEYED NOTES FOR TC1.1
5 WRAP THE ROOM WITH 8'H X 4'W X 3/4"D FIRE RATED PLYWOOD.



3 ADD-1 - Day Boarding D321A
1/8" = 1'-0"

DATE: 03/24/26
DRAWING NUMBER: ADD-1 E-004



REFERENCE: TC1.1
DRAWING TITLE: WPS - Technology Plan


PROJECT TITLE: Tufts Vet Tech Clinic Renovation

ARCHITECT: LPA|A
LAMOUREUX PAGANO ASSOCIATES | ARCHITECTS
lpaa.com

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605



PUBLIC ADDRESS & CLOCK

-  - PUBLIC ADDRESS SPEAKER, RECESSED MOUNTED
 (VALCOM S-500VC 8 INCH ROUND CEILING SPEAKER
 OR APPROVED EQUAL)
-  - 12 INCH SYNCHRONOUS CLOCK
 (SIMPLEX 6310/2310 SERIES)

PUBLIC ADDRESS & CLOCK DEVICES ABBREVIATIONS: 

- "S" - DENOTES SURFACE MOUNTED SPEAKER
- "WP" - DENOTES WEATHERPROOF SPEAKER
- "P" - DENOTES PENDANT MOUNTED SPEAKER

 TVHL

- DISPLAY MONITOR OUTLETS
OUTLETS MOUNTED AT 58" AFF: 
 - PROVIDE (1) DUPLEX RECEPTACLE
 - PROVIDE (4) DATA PORTS;
 - PROVIDE (1) 1-GANG BOX AV OUTLET WITH 1-1/4" CONDUIT STUB
 ABOVE ACCESSIBLE CEILING WITH PULL STRING AND BUSHING
- OUTLETS MOUNTED AT 18" AFF: 
 - PROVIDE (1) DUPLEX RECEPTACLES
 - PROVIDE (1) DATA PORT;
 - PROVIDE (1) 2-GANG BOX AV OUTLET WITH 1-1/4" CONDUIT STUB
 ABOVE ACCESSIBLE CEILING WITH PULL STRING AND BUSHING

ARCHITECT:



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 lpaa.com

PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
 1 Officer Manny Familia Way, Worcester, MA 01605

REFERENCE: TC0.1, E0.1

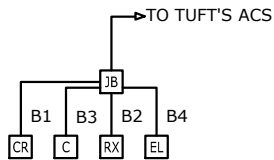
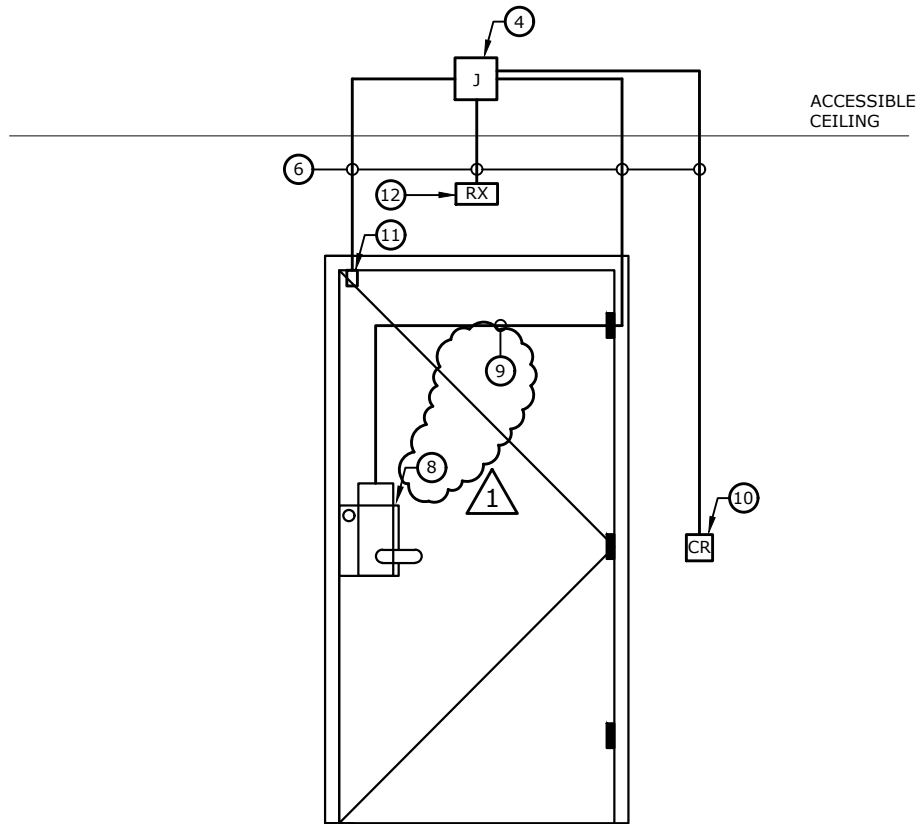
DRAWING TITLE:

Technology and
 Electrical Legend

DATE: 03/24/2026

DRAWING NUMBER:

ADD1
E-006



5 TUFTS' SINGLE DOOR WITH CR, EL, C, AND RX NTS

ARCHITECT:



PROJECT TITLE:

Tufts Vet Tech Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

REFERENCE: SC2.1

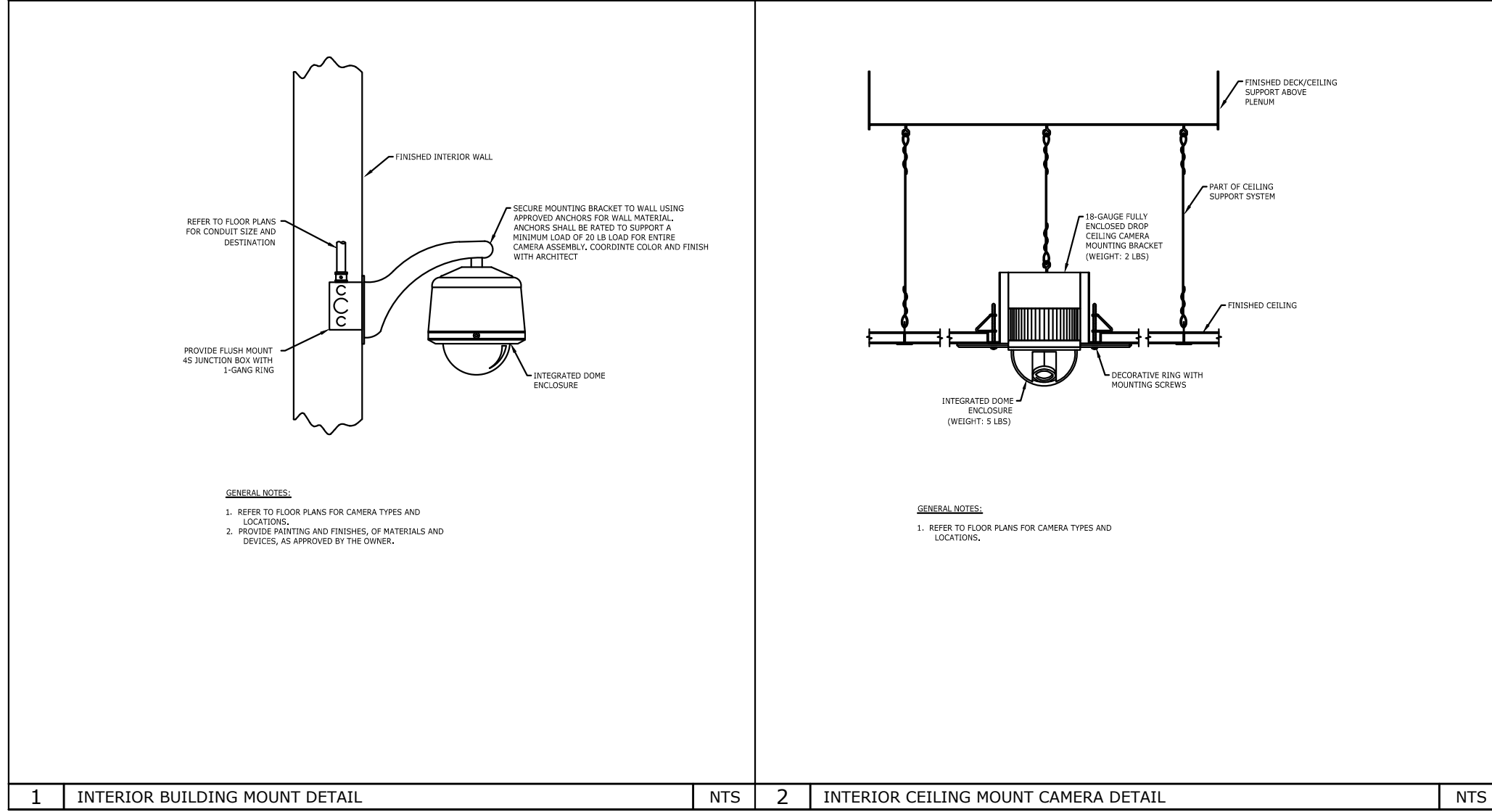
DRAWING TITLE:

Tufts' Door Detail

DATE: 03/24/2026

DRAWING NUMBER:

ADD1
E-007



DATE: 03/24/2026
DRAWING NUMBER: **ADD1**
E-008

REFERENCE: SC0.1
DRAWING TITLE: **Camera Mounting Details**

PROJECT TITLE: **Tufts Vet Tech Clinic Renovation**
Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

ARCHITECT: **LPA|A**
LAMOUREUX PAGANO ASSOCIATES | ARCHITECTS
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| System Input | | FIRE ALARM ANNUNCIATION | | | | | | NOTIFICATION | | | | | | SAFETY CONTROL | | | | | | SUPPLEMENTARY | | | | | | |
|--------------|---|-------------------------|---|---|---|---|---|--------------|---|---|---|---|---|----------------|---|---|---|---|---|---------------|---|--|---|---|---|----|
| | | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | | U | V | W | X |
| 1 | PULL STATION | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | | | | | | ■ | | | | ■ | ■ | | 1 |
| 2 | CORRIDOR SMOKE DETECTOR | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | ■ | ■ | | | | ■ | ■ | | 2 |
| 3 | AREA SMOKE DETECTOR | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | ■ | ■ | | | | ■ | ■ | | 3 |
| 4 | HEAT DETECTOR | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | ■ | | | | ■ | ■ | | | | ■ | ■ | | 4 |
| 5 | ELEVATOR MACHINE ROOM SMOKE DETECTOR | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | ■ | | ■ | | ■ | ■ | | | | ■ | ■ | | 5 |
| 6 | ELEVATOR LOBBY SMOKE DETECTOR - PRIMARY FLOOR | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | ■ | | ■ | | ■ | ■ | | | | ■ | ■ | | 6 |
| 7 | ELEVATOR LOBBY SMOKE DETECTOR - ALTERNATE FLOOR | ■ | ■ | | | | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | | ■ | ■ | | | | | ■ | ■ | | 7 |
| 8 | DUCT SMOKE DETECTOR | | | ■ | ■ | | ■ | | | | | ■ | | | | | | | | ■ | | | | | | 8 |
| 9 | FIRE ALARM SYSTEM AC POWER FAILURE | | | ■ | ■ | | | | | | | ■ | | | | | | | | | ■ | | | | | 9 |
| 10 | FIRE ALARM SYSTEM LOW BATTERY | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 10 |
| 11 | OPEN CIRCUIT | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 11 |
| 12 | GROUND FAULT | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 12 |
| 13 | NOTIFICATION APPLIANCE DEVICE SHORT | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 13 |
| 14 | MISSING DEVICE | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 14 |
| 15 | DEVICE FAULT (OUT OF SENSITIVITY, ETC.) | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 15 |
| 16 | SECONDARY POWER SUPPLY FAULT | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 16 |
| 17 | AMPLIFIER FAULT | | | | ■ | ■ | | | | | | ■ | | | | | | | | | | | | | | 17 |
| 18 | SPRINKLER WATER FLOW SWITCH | ■ | ■ | | | | | | ■ | ■ | ■ | | | ■ | ■ | | | ■ | ■ | | | | ■ | ■ | | 18 |
| 19 | SPRINKLER TAMPER SWITCH | | | ■ | ■ | | | | | | | ■ | | | | | | | | | | | | | | 19 |
| 20 | SPRINKLER PRESSURE SWITCH | | | ■ | ■ | | | | | | | ■ | | | | | | | | | | | | | | 20 |
| 21 | CARBON MONOXIDE DETECTOR | | | ■ | ■ | | ■ | | | | | ■ | | | | | | | | | | | | | | |

1

ARCHITECT:



Tufts Vet Tech Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

REFERENCE: FA0.1
DRAWING TITLE:

Fire Alarm Matrix

DATE: 03/24/2026

DRAWING NUMBER:

ADD1
E-009

KEYED NOTES FOR ED1.1

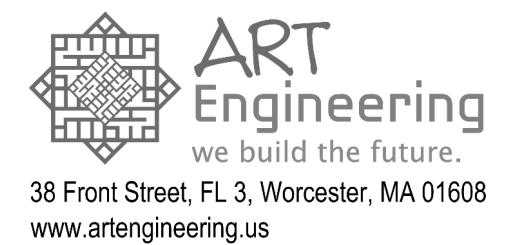
- ① EXISTING LIGHT FIXTURES AND DEVICES IN THE AREA SHALL BE TEMPORARILY SUPPORTED IN PLACE DURING CONSTRUCTION AND INSTALLATION OF NEW CEILING.
- ② EXISTING EQUIPMENT TO REMAIN. CONDUITS FOR NEW WORK MAY BE INSTALLED EXPOSED FROM EXISTING ELECTRICAL ROOMS TO WORK AREA. THE CONDUIT ROUTING SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.



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STAMP

CONSULTANT



PROJECT



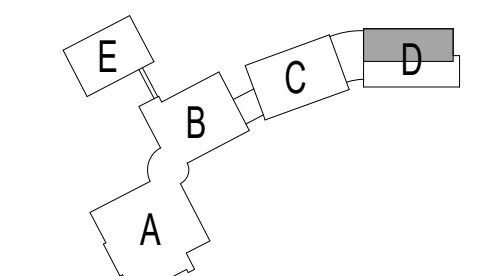
Tufts Vet Tech
Clinic Renovation

Worcester Technical High School
1 Officer Manny Familia Way, Worcester, MA 01605

DRAWING TITLE

Electrical Demolition Ground Floor Ceiling Plan

KEY PLAN



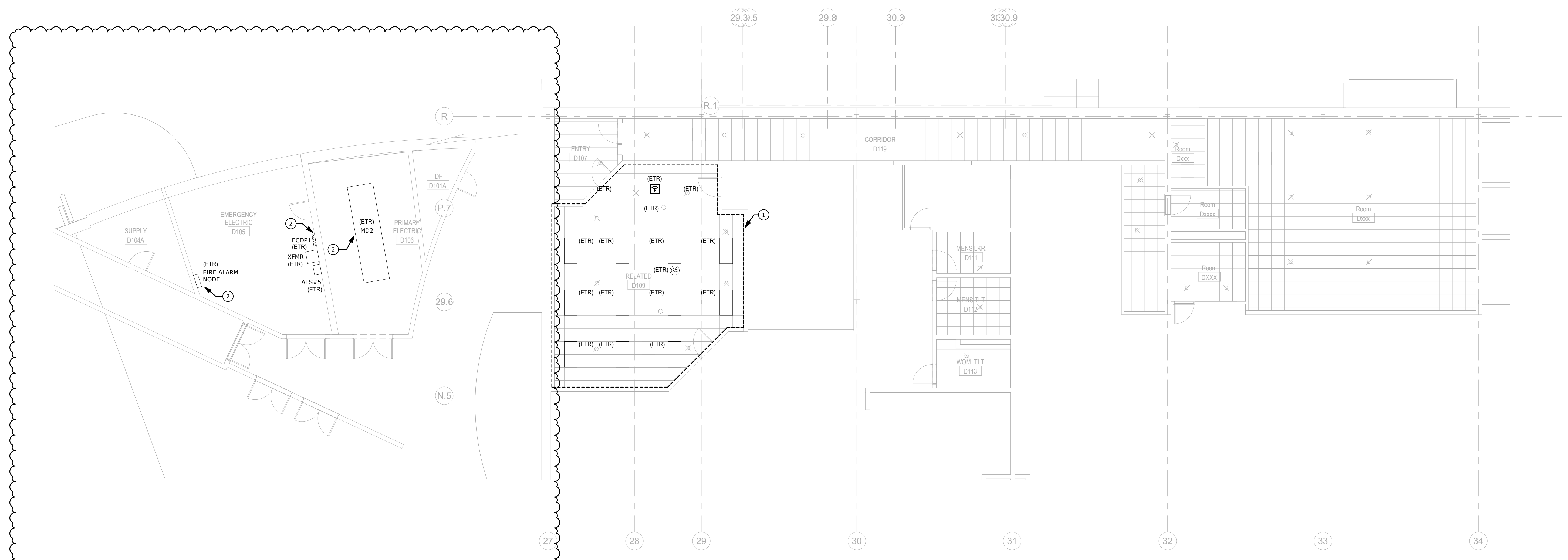
REVISIONS

| No. | Description | Date |
|-----|-------------|------------|
| 1 | Addendum #1 | 03/24/2026 |

FILE:
JOB NO: 2417
SCALE: As indicated
DWN. BY: TN
CKD. BY: ASR
DATE: March 11, 2026

ED1.1

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① Lower Level Ceiling Demolition
1/8" = 1'-0"

