

**THE SCHOOL DISTRICT OF PHILADELPHIA  
Office of Capital Programs  
440 North Broad Street, 3<sup>rd</sup> Floor – Suite 371  
Philadelphia, PA 19130**

TELEPHONE: (215) 400-4730

**Addendum No. 001**

**Subject: 2020 Classroom Modernizations  
SDP Contract Numbers: B-025 C of 19/20 & B-027 C of 19/20**

**Location: Robert B. Pollock School  
2875 Welsh Rd, Philadelphia PA 19152**

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**This Addendum, dated February 28, 2020, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.**

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**GENERAL**

**CLARIFICATION** – Any/all scope dictated in the Asbestos Inspection Report specification and/or the Paint and Plaster specification (where applicable) shall utilize the proposed finishes as indicated on the Color Scheme Schedule within the Classroom Modernization drawings. All color selections and locations shall be approved by the architect.

**SPECIFICATIONS**

**SPECIFICATION 262416 – PANELBOARDS**

1. ADD specification in its entirety.

**SPECIFICATION 275313 – WIRELESS CLOCK SYSTEM**

1. REVISE 2.2.H. to read “H. Basis of Design: Sapling Inc. SMA ~~2000~~ **3000** Series Master Clock (V8.1), Wireless Clock System. [Addendum No. 1].”

**SPECIFICATION 01 1135- Asbestos Abatement Technical Specifications**

1. REMOVE Attachment A- Asbestos Location Drawings- and all references within
2. REMOVE Attachment D- Lead Based Paint Stabilization Specification

**Specification Part B- Technical Specifications and Scope of Work for Paint and Plaster Repairs**

1. Remove and replace Scope of Work Detail (Lead Safe Certification Assessment Report)

**COVER SHEETS**

**DRAWING CS.1 – COVER SHEET**

1. REVISE cover to add Deed Address to read “2951 WELSH ROAD, PHILADELPHIA, PA 19152-1607.”

## **ARCHITECTURAL DRAWINGS**

### **DRAWING D1.1 – GROUND FLOOR DEMOLITION PLAN – UNIT A-B**

1. ADD demolition note 1F with 1P as indicated on the drawings.
2. REVISE demolition notes 1A, 3A, and 5A as indicated on the drawings.

### **DRAWING A1.3 – GROUND FLOOR PLAN – UNIT A-B**

1. REVISE rooms 1 thru 5, 8, and 10 thru 16 as indicated on the drawings.

### **DRAWING A1.4 – FIRST FLOOR PLAN – UNIT B-C**

1. REVISE rooms 1 thru 5, 8, and 10 thru 16 as indicated on the drawings.
2. REVISE toilet rooms P-1A and P-3 as indicated on the drawings.

### **DRAWING A2.1 – GROUND FLOOR PLAN REFLECTED CEILING PLAN – UNIT A-B**

1. REVISE rooms 1 thru 5, 8, and 10 thru 16 as indicated on the drawings.

### **DRAWING A6.1 – ROOM FINISH SCHEDULE & DOOR SCHEDULE**

1. REVISE Room Finish Schedule column "COLOR SCHEME" at ROOMS P-2, P-2C, P-2D to correspond to Color Scheme "B".
2. REVISE Room Finish Schedule column "COLOR SCHEME" at ROOMS 13, 14, 16 to correspond to Color Scheme "C".
3. REVISE Room Finish Schedule column "COLOR SCHEME" at ROOMS 8, 10, 11, 11A, 12 to correspond to Color Scheme "D".
4. REVISE Color Scheme Schedule – Color Scheme A to read as: "COLOR SCHEME A – KINDERGARTEN".
  - a. REVISE item no. 6 to read as: "6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 51947 BASIL GREEN"
  - b. ADD item no. 8 to read as: "8. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY".
5. REVISE Color Scheme Schedule – Color Scheme B to read as: "COLOR SCHEME B – FIRST GRADE AND SPECIAL EDUCATION".
  - a. REVISE item no. 3 to read as: "3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6765 SPA"
  - b. REVISE item no. 5 to read as: "5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY"
  - c. REVISE item no. 6 to read as: "6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57509 LEMON LICK"
  - d. ADD item no. 8 to read as: "8. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY".
6. REVISE Color Scheme Schedule – Color Scheme C to read as: "COLOR SCHEME C – SECOND GRADE".
  - a. ADD Color Scheme Information for Color Scheme C.
7. REVISE Color Scheme Schedule – Color Scheme D to read as: "COLOR SCHEME D – THIRD GRADE".
  - a. ADD Color Scheme Information for Color Scheme D.
8. REVISE Color Scheme Schedule – General Notes Item No. 7 to read as: "NOT USED".

## **INTERIOR DRAWINGS**

### **DRAWING I4.6 – LARGE SCALE LAYOUTS – INTERIOR ELEVATIONS & DETAILS**

1. REVISE detail B/I4.6 ALCOVE CUBBIE LAYOUT – TYPICAL – Revise to show vent and add note to read as: "Coordinate existing vent and piping (VIF), (WHERE OCCURS). – TYP"
2. REVISE detail G/I4.6 ALCOVE NEW COAT HOOKS/WALL CABINETS – ROOM 16 – Revise to remove note no longer applicable to project.

3. REVISE detail 5/I4.6 WOOD WALL CABINET & EXISTING 3-TIER SHELF DETAIL –  
Revise to remove note no longer applicable to project.

## **PLUMBING DRAWINGS**

### **DRAWING P1.2 - PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT A-B**

1. REVISE toilet rooms P-1A and P-3 as indicated on the drawings.

## **ELECTRICAL DRAWINGS**

### **DRAWING E0.1 – ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS**

1. REVISE room controller basis-of-design to read “GREENGATE – MODEL #RC3D-PL.”

### **DRAWING ED1.1 - ELECTRICAL GROUND FLOOR DEMOLITION PLAN - UNIT A-B**

1. CLARIFY general note in larger font to read “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0” OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”

### **DRAWING ED1.2 - ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT B-C**

1. CLARIFY general note in larger font to read “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0” OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”

### **DRAWING E1.1 – ELECTRICAL GROUND FLOOR LIGHTING – UNIT A-B**

1. REVISE drawing per architectural updates, as indicated on the drawings.

### **DRAWING E2.1 - ELECTRICAL GROUND FLOOR POWER AND TECHNOLOGY PLAN - UNIT A-B**

1. Re-hosted floating data outlets as indicated on the drawings.
2. ADD general sheet note #6 to read “ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OFF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.”
3. REVISE data outlet locations and scope as indicated on the drawings.

### **DRAWING E2.2 - ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN – UNIT B-C**

1. ADD general sheet note #6 to read “ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OFF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.”
2. REVISE data outlet locations and scope as indicated on the drawings.

### **DRAWING E7.1 - ELECTRICAL DETAILS**

1. REVISE 3/E7.1 Typical Classroom Lighting Controller diagram as indicated on the drawings.

**BIDDER QUESTIONS SUBMITTED TO DATE & RESPONSES ARE AS FOLLOWS:**

1. On the website, each school has an EC and GC bid. Who will be responsible for the HVAC and Plumbing work that is included?

**Answer:** See specification section 01 1000 Summary of Work, section 1.1, "Note: All work shown on the Plumbing or Mechanical Drawings or indicated as plumbing or mechanical work is the responsibility of the General Construction Contractor."

2. Specifications call for Sapling Master 2000 Clock. Sapling 3000 is normally the school district standard. Manufacturer comment "a 3000 can set up bell schedules where a 2000 cannot. Philly schools does not have intercom systems, so they have no way of ringing bells without the 3000." Should the specs be revised to install a 3000?

**Answer:** Specification 275313 has been revised in this addendum. Refer to specification addendum section, above.

3. The specifications do not contain a specification for the electrical panels. Can you provide?

**Answer:** Specification 262416 Panelboards has been added to the contract documents as part of this addendum.

4. The GC scope of work covers 19 classrooms and associated storage and toilet rooms. NOTE on page 3 of 5 says: "The General Construction Contractor is responsible for all Paint and Plaster Repairs IN ALL ROOMS OF THE BUILDING(S), in accordance with the attached Technical Specification and Scope of Work." Please confirm that "all rooms" refers to the 19 classrooms, storage and toilet rooms as defined in the scope of work.

**Answer:** ALL ROOMS OF THE BUILDING(S) are required to be Painted in accordance with the Paint and Plaster Specification Requirements. The Lead Safe Certification document locates the specified scope for stabilization. This scope is NOT limited to the Classroom Modernization locations.

5. Drawing D1.1, Demolition Note 9A states "*existing unit ventilator and/or radiator, radiator cover and all associated piping and components to be removed (as applicable) and refinished with electrostatic paint and reinstalled as scheduled. Clean unit ventilator and/or radiator and all associated components prior to reinstallation of cover.*" Is this the responsibility of the GC?

**Answer:** See question #1 above regarding HVAC and Plumbing responsibility. Drawing D1.1, Demolition Note 9A is amended to read:

*"Existing unit ventilator cover and/or radiator cover to be removed (as applicable) and refinished with electrostatic paint and reinstalled as scheduled. Clean unit*

*ventilator and/or radiator and all associated components prior to reinstallation of cover.”*

6. The contract drawings don't show any details regarding the scope of work. The notes on the drawings lead us to believe that the intent is to Paint the Ventilator Grilles and Radiator covers. Please clarify?

**Answer:** See Question #5, above. Also refer to Specification 105115 Electrostatic Painting for refinishing requirements for metal surfaces.

7. The contract drawings don't show any window film. Please clarify? Not sure where we asked for window film? Please clarify.

**Answer:** Per Specification 101115, Section 2.2.B.2, location to be at Samuel L. Gompers Elementary per drawings only.

8. Drawings don't show S.S. Corner Guard locations. Please Clarify?

**Answer:** Per Specification 102600, Section 2.3.A.7, we have indicated corner guards to be received at three schools; John B. Kelly Elementary per drawings, Overbrook Educational Center per drawings, and Fox Chase Elementary per drawings.

9. Confirm that Unit Price No. 1 and Unit Price No. 2 work is only applicable to Pollock Part Part B Scope of Work. Provide breakdown by room, location, surface type (wall or ceiling) and size (in SF) for the respective patching and repairs.

**Answer:** Unit Pricing should be included as noted in the Bid Proposal form. This applies to all schools that include a “Part B- Scope of work and technical specifications for paint and plaster repairs.” See question #4 above, and see included revision to “Lead Safe Certification Assessment Report.”

10. The part B Scope of Work Detail (beginning of pdf page 725 of 794) for the Pollock ES includes room #'s for a three story building. Provide the correct report and floor plans.

**Answer:** This document has been revised. There aren't floor plans for part B. Please see responses to questions 4 and 9 above.

11. Please provide Appendix A- Asbestos Location Drawings

**Answer:** For specification 01 1135 Asbestos Abatement Technical Specification, omit all references within this section referring to Appendix A- Asbestos Location Drawings. See section 0.2, Section E for the scope of work.

## **ATTACHMENTS**

### **SPECIFICATIONS**

SPECIFICATION 262416      PANELBOARDS

Specification Part B- Technical Specifications and Scope of Work for Paint and Plaster Repairs

**DRAWINGS**

DRAWING D1.1	GROUND FLOOR DEMOLITION PLAN – UNIT A-B
DRAWING A1.3	GROUND FLOOR PLAN – UNIT A-B
DRAWING A1.4	FIRST FLOOR PLAN – UNIT B-C
DRAWING A2.1	GROUND FLOOR PLAN REFLECTED CEILING PLAN – UNIT A-B
DRAWING A6.1	ROOM FINISH SCHEDULE & DOOR SCHEDULE
DRAWING I4.6	LARGE SCALE LAYOUTS – INTERIOR ELEVATIONS & DETAILS
DRAWING P1.2	PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT A-B
DRAWING E1.1	ELECTRICAL GROUND FLOOR LIGHTING – UNIT A-B
DRAWING E2.1	ELECTRICAL GROUND FLOOR POWER AND TECHNOLOGY PLAN – UNIT A-B
DRAWING E2.2	ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN – UNIT B-C
DRAWING E7.1	ELECTRICAL DETAILS

**END OF ADDENDUM #001**



SEAL:



J. JEFFREY STRAUB, AIA  
STATE AND LICENSE NO. RA403652

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100% DESIGN SUBMISSION  
1/22/2020

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1	2/27/2020 ADDENDUM # 1
NO.	DATE REVISION

SCHOOL & LOCATION  
**ROBERT B. POLLOCK  
ELEMENTARY SCHOOL**

MAILING ADDRESS: 2875 WELSH  
ROAD, PHILADELPHIA PA 19152  
DEED ADDRESS: 2951 WELSH RD,  
PHILADELPHIA, PA 19152-1607

PROJECT TITLE  
**CLASSROOM  
MODERNIZATION**

DRAWING TITLE

**GROUND FLOOR  
DEMOLITION PLAN - UNIT  
A-B**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY

B-025C OF 19 / 20  
B-027C OF 19 / 20

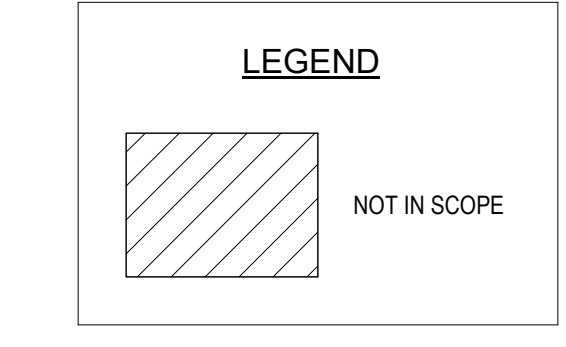
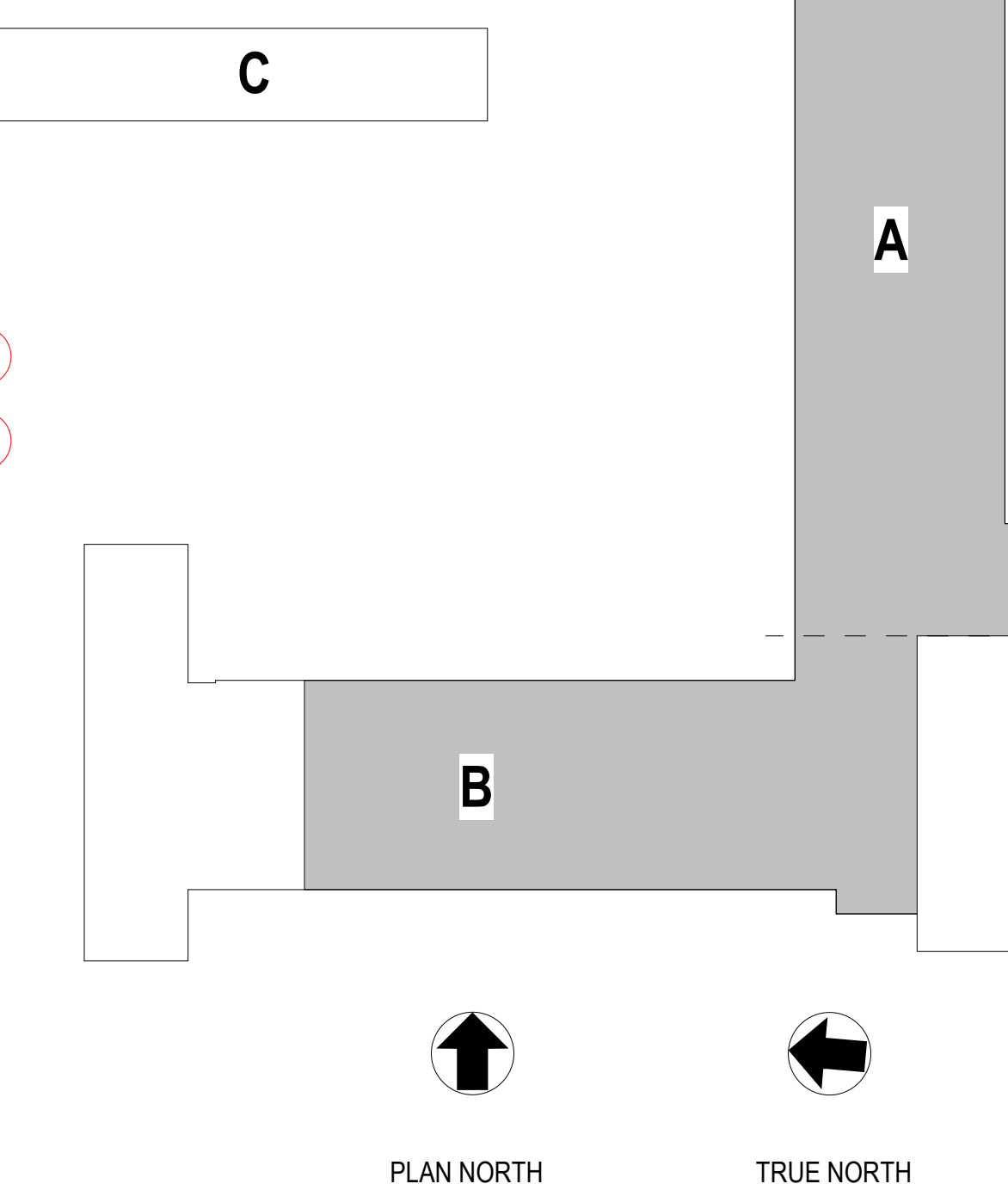
DRAWING NO.

**D1.1**

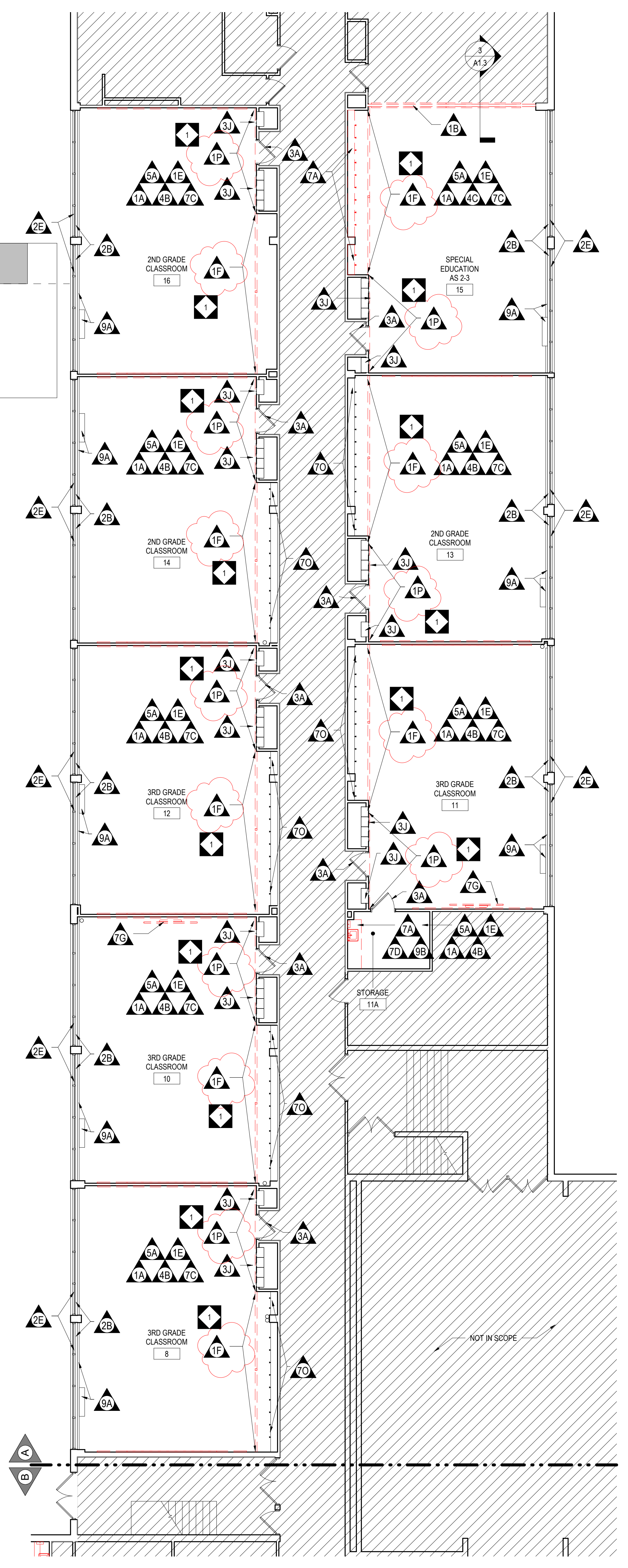
3 - DEMOLITION LEGEND	
TAG	DEMOLITION NOTE
<b>1 - WALL DEMOLITION AND RENOVATION</b>	
1A	EXISTING WALLS SHALL BE SCRAPPED; REMOVE ANY/ALL ABANDONED OR UNUSED BRACKETS, PROJECTORS AND MOUNTS, PROJECTOR SCREENS, TVS AND MOUNTS, BLOCKING AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. PATCH ANY AND ALL PENETRATIONS AND CRACKING THROUGHOUT AND PREPARE WALLS, COLUMNS, REGISTERS, HEATERS, AND ASSOCIATED ACCESSORIES TO RECEIVE NEW FINISH MATCHING ADJACENT FINISHED SURFACE AS SCHEDULED.
1B	REMOVE EXISTING OPERABLE PARTITION PANELS IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ANY ASSOCIATED HARDWARE AND DISPLAY BOARDS WHERE OCCURS. FLOOR TRACK TO BE REMOVED IN ITS ENTIRETY AND PATCH AND REPAIR FLOOR TO MATCH ADJACENT. STRUCTURAL BEAM TO REMAIN. PREPARE ADJACENT FINISHES FOR NEW WORK.
1D	REMOVE EXISTING VINYL/RUBBER BASE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING TO REMAIN SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1E	EXISTING GLAZED CMU WALL FINISH AND WALL BASE TO BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES AND PREPARED TO RECEIVE NEW FINISH AS SCHEDULED.
1F	REMOVE COLUMN, BULKHEAD, ALL HARDWARE AND SUPPORTING ELEMENTS IN ITS ENTIRETY. PATCH AND REPAIR EXISTING TO REMAIN SURFACE TO RECEIVE NEW FINISH AS SCHEDULED.
1P	REMOVE AND DISPOSE OF WALL FINISH FROM APPROXIMATELY 7" ABOVE FINISH FLOOR TO UNDERSIDE OF STRUCTURE AS OUTLINED IN THE ASBESTOS INSPECTION REPORT. PREPARE WALLS AND ASSOCIATED ACCESSORIES TO RECEIVE NEW FINISH AS INDICATED ON DRAWINGS.
<b>2 - WINDOW DEMOLITION AND RENOVATION</b>	
2B	EXISTING SOLID SURFACE OR SLATE WINDOW SILL SHALL BE CLEANED AND REMOVED OF ALL EXISTING ADHESIVES. REMOVE ALL MISC./OBSOLETE ITEMS FROM SILL. PATCH ALL PENETRATIONS.
2D	EXISTING OPAQUE WINDOW PANELS SHALL BE PREPARED TO RECEIVE NEW FINISH AS SCHEDULED. EXISTING GLAZING SHALL BE THOROUGHLY CLEANED OF ALL ADHESIVES, STAPLES AND UNUSED FASTENERS TO BE REMOVED.
2E	ALL EXISTING WINDOW SHADES AND ASSOCIATED COMPONENTS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ADJACENT FINISHES FOR NEW FINISHES AND/OR SHADES.
<b>3 - DOOR DEMOLITION AND RENOVATION</b>	
3A	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). PREPARE DOOR FOR NEW HARDWARE AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS. CONTRACTOR SHALL NOT REMOVE ANY COMPONENTS OF DOOR OR HARDWARE UNTIL ALL COMPONENTS OF NEW ASSEMBLY ARE PHYSICALLY ON SITE, INCLUDING CORES.
3J	EXISTING LOCKER DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT AND FASTENERS (ALL SURFACES). REMOVE ALL DIRT, LOOSE PAINT AND RUST, AND OTHER FOREIGN ITEMS. EXISTING CHIPPED, DETERIORATED AND UNEVEN EXISTING COATINGS SHALL BE COMPLETELY REMOVED FROM ENTIRE ASSEMBLY. SAND ENTIRE ASSEMBLY. FOLLOW WITH SPECIFIED ELECTROSTATIC COATINGS PER MANUFACTURER'S INSTRUCTIONS TO ALL METAL SURFACES. WHERE THE EXISTING FINISH IS INCOMPATIBLE WITH NEW SCHEDULED COATINGS, THE EXISTING FINISH SHALL BE COMPLETELY REMOVED. REMOVE AND REINSTALL EXISTING ASSEMBLY WITH NEW FINISH AND HARDWARE BACK TO EXISTING LOCATION. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR AND HARDWARE REQUIREMENTS.
3M	EXISTING DOOR, FRAME AND HARDWARE TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM ASSEMBLY. ANY/ALL PENETRATIONS IN EXISTING DOOR AND FRAME, INCLUDING OLD HARDWARE PENETRATIONS, SHALL BE PATCHED WITH SAME MATERIAL AS DOOR. SAND AND RETURN TO "LIKE NEW" CONDITION AND PREPARE FOR NEW FINISH AS SCHEDULED. ALL MISCELLANEOUS HARDWARE AND SECURITY GRILLES AND ASSOCIATED BRACKETING SHALL BE REMOVED IN ITS ENTIRETY (WHERE OCCURS). PREPARE DOOR AND/OR FRAME ASSEMBLIES TO RECEIVE NEW INFILL AS SCHEDULED (WHERE OCCURS). CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.
3P	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN. REMOVE ANY/ALL OBSOLETE EQUIPMENT, CONDUIT AND WIRING, STAPLES AND ASSOCIATED ACCESSORIES AND FASTENERS IN THEIR ENTIRETY FROM DOOR AND FRAME ASSEMBLY. CLEAN DOOR AND HARDWARE TO "LIKE NEW" CONDITION. FRAME SHALL BE STRIPPED, SANDED AND PREPARED FOR NEW FINISH AS SCHEDULED. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR, FRAME AND HARDWARE REQUIREMENTS.

NOTE:  
REFER TO "GENERAL PROJECT ALTERATION NOTES" ON CS 2 FOR ADDITIONAL INFORMATION.  
REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

3 - DEMOLITION LEGEND	
TAG	DEMOLITION NOTE
<b>4 - FLOOR DEMOLITION AND RENOVATION</b>	
4B	REMOVE EXISTING VINYL TILE FLOORING IN ITS ENTIRETY INCLUDING TRANSITION STRIPS AND SUBFLOOR. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4C	REMOVE EXISTING CARPET FLOORING IN ITS ENTIRETY INCLUDING TRANSITION STRIPS AND SUBFLOOR. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
4E	PREPARE EXISTING CONCRETE FLOOR AND ASSOCIATED BASE TO RECEIVE NEW FLOOR FINISH AND BASE AS SCHEDULED. CONTRACTOR SHALL LEVEL FLOORING AS REQUIRED TO ACCEPT NEW SUBFLOORING, FINISH AND TRANSITIONS AS SCHEDULED. WHERE FLOOR DRAINS AND/OR PLUMBING CONNECTIONS OCCUR, CONTRACTOR SHALL MODIFY EXISTING CONNECTIONS AS REQUIRED TO ACCEPT NEW FINISH.
<b>5 - CEILING DEMOLITION AND RENOVATION</b>	
5A	EXISTING HARD CEILING AND/OR METAL CEILINGS SHALL BE SCRAPPED; REMOVE ANY/ALL ABANDONED OR UNUSED FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. PATCH ANY AND ALL PENETRATIONS AND CRACKING THROUGHOUT AND PREPARE CEILINGS, BEAMS, AND ASSOCIATED ACCESSORIES TO RECEIVE NEW FINISH MATCHING ADJACENT SURFACE AS SCHEDULED. WHERE CAPPING OF OLD OR ABANDONED SYSTEMS OCCURS, PROVIDE COVER PLATE AND PAINT TO MATCH EXISTING SURFACES. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
5B	REMOVE EXISTING SUSPENDED CEILING ASSEMBLY IN ITS ENTIRETY. REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, FASTENERS, BRACKETS, PROJECTORS AND MOUNTS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. ALL ABANDONED OR UNUSED CONDUIT, WIRING AND PIPING SHALL BE REMOVED TO THE SOURCE OF SUPPLY. PREPARE ADJACENT SURFACES FOR NEW CEILING ASSEMBLY AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
<b>7 - EQUIPMENT DEMOLITION AND RENOVATION</b>	
7A	EXISTING BUILT-IN CASEWORK, BUILT-IN SHELVING AND/OR COAT HOOKS AND ASSOCIATED BLOCKING AND FASTENERS SHALL BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
7B	PREPARE EXISTING WOOD TRIM DISPLAY BOARDS FOR NEW FINISH AS SCHEDULED. DISPLAY BOARDS SHALL BE FREE OF ANY FASTENERS, STAPLES, ADHESIVES, ETC. ENTIRE ASSEMBLY TO BE THOROUGHLY CLEANED, SANDED, PATCHED OF ANY PENETRATIONS, GAPS OR CRACKING AND PREPARED FOR NEW FINISH AND INFILL AS SCHEDULED.
7C	REMOVE EXISTING DISPLAY BOARDS, WHERE OCCURS, TACK STRIPS, TRIM AND ALL RELATED COMPONENTS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
7D	REMOVE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, MIRRORS, SOAP DISHES, HAND SANITIZERS, CURTAIN RODS, GRAB BARS, ETC FROM ROOM IN THEIR ENTIRETY. RETURN ALL ACCESSORIES TO OWNER. WHERE RECESSED SOAP TRAYS/DISPENSERS OR RECESSED PAPER TOWEL DISPENSERS/WASTE RECEPTACLES OCCUR, REMOVE AND PATCH WALL TO RECEIVE NEW FINISH AS SCHEDULED.
7E	REMOVE EXISTING TOILET PARTITIONS AND ASSOCIATED ACCESSORIES AND HARDWARE. PATCH AND PREPARE ADJACENT SURFACES FOR FINISH AS SCHEDULED.
7G	REMOVE EXISTING SMARTBOARD WALL OR FLOOR MOUNTED BRACKETS IN THEIR ENTIRETY, WHERE OCCURS. PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.
7H	PREPARE EXISTING BUILT-IN CASEWORK AND BUILT-IN SHELVING UNITS FOR NEW FINISH AS SCHEDULED. SHALL BE FREE OF ANY FASTENERS, STAPLES, ADHESIVES, ETC. ENTIRE ASSEMBLY TO BE THOROUGHLY CLEANED, SANDED, PATCHED OF ANY PENETRATIONS OR CRACKING AND PREPARED FOR NEW FINISH AND INFILL AS SCHEDULED.
7O	PREPARE EXISTING TIERED COAT HOOK AND SHELF SYSTEM FOR NEW FINISH AS SCHEDULED. ENTIRE SYSTEM AND ADJACENT SURFACES SHALL BE FREE OF ANY FASTENERS, STAPLES, ADHESIVES, ETC. ENTIRE ASSEMBLY TO BE THOROUGHLY CLEANED, SANDED, PATCHED OF ANY PENETRATIONS OR CRACKING AND PREPARED FOR NEW FINISH AND INFILL AS SCHEDULED. REMOVE ALL HOOKS AND RETURN TO OWNER. 30 NEW STAINLESS STEEL COAT HOOKS SHALL BE INSTALLED EVENLY ON EXISTING TIERS. REFER TO INTERIORS DRAWINGS FOR ADDITIONAL INFORMATION.
<b>8 - MISCELLANEOUS</b>	
8D	FIRE EXTINGUISHER SHALL BE REMOVED, SALVAGED AND STORED AT A LOCATION DESIGNATED BY OWNER. REINSTALL DURING NEW CONSTRUCTION.
<b>9 - MEP DEMOLITION AND RENOVATION</b>	
9A	EXISTING UNIT VENTILATOR AND/OR RADIATOR, RADIATOR COVER AND ALL ASSOCIATED PIPING AND COMPONENTS TO BE REMOVED (AS APPLICABLE), REFINISHED WITH ELECTROSTATIC PAINT AND REINSTALLED AS SCHEDULED. CLEAN UNIT VENTILATOR AND/OR RADIATOR AND ALL ASSOCIATED COMPONENTS PRIOR TO REINSTALLATION OF COVER.
9B	REMOVE ALL PLUMBING FIXTURES AND PATCH ANY/ALL PENETRATIONS AND PREPARE SURFACE TO RECEIVE NEW FINISH AND/OR WORK AS SCHEDULED. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
9C	REMOVE ALL APPLIANCES AND THEIR ASSOCIATED COMPONENTS, INCLUDING FUME HOODS, OVENS, AND REFRIGERATORS, SHALL BE RETURNED TO OWNER. PREPARE FOR NEW WORK AS SCHEDULED. ALL APPLIANCES SHALL BE GO PROVIDED AND INSTALLED UNLESS STATED OTHERWISE. AT NO POINT SHOULD ANY COMPONENT BE REMOVED FROM SITE WITHOUT SPECIFIC OWNER APPROVAL.



2 D1.1 GROUND FLOOR DEMOLITION PLAN - UNIT B  
1/8" = 1'-0"



1 D1.1 GROUND FLOOR DEMOLITION PLAN - UNIT A  
1/8" = 1'-0"



**SECTION 262416 – PANELBOARDS [ Addendum No. 1]**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
  - 1. Lighting and appliance branch-circuit panelboards.

1.3 DEFINITIONS

- A. ATS: Acceptance testing specification.
- B. GFCI: Ground-fault circuit interrupter.
- C. GFEP: Ground-fault equipment protection.
- D. MCCB: Molded-case circuit breaker.
- E. VPR: Voltage protection rating.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of panelboard.
  - 1. Include materials, switching and overcurrent protective devices, SPDs, accessories, and components indicated.
  - 2. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: For each panelboard and related equipment.
  - 1. Include dimensioned plans, elevations, sections, and details.
  - 2. Show tabulations of installed devices with nameplates, conductor termination sizes, equipment features, and ratings.
  - 3. Detail enclosure types including mounting and anchorage, environmental protection, knockouts, corner treatments, covers and doors, gaskets, hinges, and locks.
  - 4. Detail bus configuration, current, and voltage ratings.
  - 5. Short-circuit current rating of panelboards and overcurrent protective devices.
  - 6. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
  - 7. Include wiring diagrams for power, signal, and control wiring.



8. Key interlock scheme drawing and sequence of operations.
9. Include time-current coordination curves for each type and rating of overcurrent protective device included in panelboards. Submit on translucent log-log graph paper; include selectable ranges for each type of overcurrent protective device. Include an Internet link for electronic access to downloadable PDF of the coordination curves.

C. Contractor shall submit a "specifications compliance statement" for each manufactured piece of equipment. Contractor/Supplier shall add "redlined" line-by-line notations to a PDF of the Specifications Section indicating the product or actions required "complies". Contractor/Supplier shall itemize all deviations from the specified requirement on a line-by-line basis. List of exceptions to product specification shall include proposed materials, methods and cost difference where substitutions are allowed. If product does not comply with the specification the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

#### 1.5 STATEMENT OF COMPLIANCE

A. Contractor shall submit a "specifications compliance statement" for each manufactured piece of equipment. Contractor/Supplier shall add "redlined" notations to a PDF of the Specifications Section indicating the product or actions required "complies". If product does not comply the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Panelboard Schedules: For installation in panelboards. Submit final versions after load balancing.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For panelboards and components to include in emergency, operation, and maintenance manuals. In addition to items specified in other section for "Operation and Maintenance Data," include the following:
  1. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
  2. Time-current curves, including selectable ranges for each type of overcurrent protective device that allows adjustments.

#### 1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications: ISO 9001 or 9002 certified.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Remove loose packing and flammable materials from inside panelboards; install temporary electric heating (250 W per panelboard) to prevent condensation.
- B. Handle and prepare panelboards for installation according to NECA 407.

1.10 FIELD CONDITIONS

A. Environmental Limitations:

- 1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above panelboards is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
- 2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:
  - a. Ambient Temperature: Not exceeding 23 deg F (minus 5 deg C) to plus 104 deg F (plus 40 deg C).
  - b. Altitude: Not exceeding 6600 feet (2000 m).

B. Service Conditions: NEMA PB 1, usual service conditions, as follows:

- 1. Ambient temperatures within limits specified.
- 2. Altitude not exceeding 6600 feet (2000 m).

C. Interruption of Existing Electric Service: Do not interrupt electric service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

- 1. Notify Construction Manager no fewer than two days in advance of proposed interruption of electric service.
- 2. Do not proceed with interruption of electric service without Construction Manager's written permission.
- 3. Comply with NFPA 70E.

1.11 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace panelboards that fail in materials or workmanship within specified warranty period.

- 1. Panelboard Warranty Period: 18 months from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PANELBOARDS COMMON REQUIREMENTS

A. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in other section for "Seismic Controls for Electrical Systems."

## 2020 CLASSROOM MODERNIZATION PROJECT TECHNICAL SPECIFICATIONS

- B. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Comply with NEMA PB 1.
- E. Comply with NFPA 70.
- F. Enclosures: Flush and Surface-mounted, dead-front cabinets.
  - 1. Rated for environmental conditions at installed location.
    - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - b. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5.
  - 2. Height: **84 inches (2.13 m)** maximum.
  - 3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover. Trims shall cover all live parts and shall have no exposed hardware.
  - 4. Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
  - 5. Finishes:
    - a. Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
    - b. Back Boxes: Same finish as panels and trim.
- G. Incoming Mains:
  - 1. Location: Top and Bottom.
  - 2. Main Breaker: Main lug interiors up to 400 amperes shall be field convertible to main breaker.
- H. Phase, Neutral, and Ground Buses:
  - 1. Material: Hard-drawn copper, 98 percent conductivity.
    - a. Plating shall run entire length of bus.
    - b. Bus shall be fully rated the entire length.
  - 2. Interiors shall be factory assembled into a unit. Replacing switching and protective devices shall not disturb adjacent units or require removing the main bus connectors.
  - 3. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
  - 4. Full-Sized Neutral: Equipped with full-capacity bonding strap for service entrance applications. Mount electrically isolated from enclosure. Do not mount neutral bus in gutter.
- I. Conductor Connectors: Suitable for use with conductor material and sizes.

## 2020 CLASSROOM MODERNIZATION PROJECT TECHNICAL SPECIFICATIONS

1. Material: Hard-drawn copper, 98 percent conductivity.
  2. Terminations shall allow use of 75 deg C rated conductors without derating.
  3. Size: Lugs suitable for indicated conductor sizes, with additional gutter space, if required, for larger conductors.
  4. Main and Neutral Lugs: Mechanical type, with a lug on the neutral bar for each pole in the panelboard.
  5. Ground Lugs and Bus-Configured Terminators: Mechanical type, with a lug on the bar for each pole in the panelboard.
  6. Feed-Through Lugs: Mechanical type, suitable for use with conductor material. Locate at opposite end of bus from incoming lugs or main device.
  7. Subfeed (Double) Lugs: Mechanical type suitable for use with conductor material. Locate at same end of bus as incoming lugs or main device.
  8. Gutter-Tap Lugs: Mechanical type suitable for use with conductor material and with matching insulating covers. Locate at same end of bus as incoming lugs or main device.
- J. Future Devices: Panelboards or load centers shall have mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.
1. Percentage of Future Space Capacity: 20 percent.
- K. Panelboard Short-Circuit Current Rating: Match existing condition Ratings (Field coordinate).
- L. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals. Assembly listed by an NRTL for 100 percent interrupting capacity. However, if the short-circuit & coordination study requires higher AIC rating, then the contractor shall provide higher rated panels without any additional cost to the owners. It is highly recommended that short-circuit & coordination study be prepared prior to ordering the panels.
1. Panelboards and overcurrent protective devices rated 240 V or less shall have short-circuit ratings as shown on Drawings, but not less than 10,000 A rms symmetrical.
  2. Panelboards and overcurrent protective devices rated above 240 V and less than 600 V shall have short-circuit ratings as shown on Drawings, but not less than 14,000 A rms symmetrical.

### 2.2 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Panelboards shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

### 2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Eaton.
  2. East coast Panelboard Inc.
  3. Square D; by Schneider Electric.



- B. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.
- C. Mains: Circuit breaker or lugs only.
- D. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- E. Doors: Door-in-door construction with concealed hinges; secured with multipoint latch with tumbler lock; keyed alike. Outer door shall permit full access to the panel interior. Inner door shall permit access to breaker operating handles and labeling, but current carrying terminals and bus shall remain concealed.

#### 2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Eaton.
  - 2. East coast Panelboard Inc.
  - 3. Square D; by Schneider Electric.
- B. MCCB: Comply with UL 489, with interrupting capacity to meet available fault currents.
  - 1. Thermal-Magnetic Circuit Breakers:
    - a. Inverse time-current element for low-level overloads.
    - b. Instantaneous magnetic trip element for short circuits.
    - c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
  - 2. GFCI Circuit Breakers: Single- and double-pole configurations with Class A ground-fault protection (6-mA trip).
  - 3. Subfeed Circuit Breakers: Vertically mounted.
  - 4. MCCB Features and Accessories:
    - a. Standard frame sizes, trip ratings, and number of poles.
    - b. Breaker handle indicates tripped status.
    - c. UL listed for reverse connection without restrictive line or load ratings.
    - d. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
    - e. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads.
    - f. Communication Capability: Circuit-breaker-mounted communication module with functions and features compatible with power monitoring and control system specified in other section for "Electrical Power Monitoring and Control."
    - g. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.
    - h. Undervoltage Trip: Set to operate at 35 to 75 percent of rated voltage without intentional time delay.
    - i. Auxiliary Contacts: One, SPDT switch with "a" and "b" contacts; "a" contacts mimic circuit-breaker contacts and "b" contacts operate in reverse of circuit-breaker contacts.
    - j. Alarm Switch: Single-pole, normally open contact that actuates only when circuit breaker trips.

- k. Multipole units enclosed in a single housing with a single handle or factory assembled to operate as a single unit.
- l. Handle Padlocking Device: Fixed attachment, for locking circuit-breaker handle in on or off position.
- m. Handle Clamp: Loose attachment, for holding circuit-breaker handle in on position.

## 2.5 IDENTIFICATION

- A. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles shall be located on the interior of the panelboard door.
- B. Breaker Labels: Faceplate shall list current rating, UL and IEC certification standards, and AIC rating.
- C. Circuit Directory: Computer-generated circuit directory mounted inside panelboard door with transparent plastic protective cover.
  - 1. Circuit directory shall identify specific purpose with detail sufficient to distinguish it from all other circuits.

## 2.6 ACCESSORY COMPONENTS AND FEATURES

- A. Accessory Set: Include tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify actual conditions with field measurements prior to ordering panelboards to verify that equipment fits in allocated space in, and comply with, minimum required clearances specified in NFPA 70.
- B. Receive, inspect, handle, and store panelboards according to NECA 407.
- C. Examine panelboards before installation. Reject panelboards that are damaged, rusted, or have been subjected to water saturation.
- D. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent

surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

- B. Comply with NECA 1.
- C. Install panelboards and accessories according to NECA 407.
- D. Equipment Mounting:
  - 1. Attach panelboard to the vertical finished or structural surface behind the panelboard.
  - 2. Comply with requirements for seismic control devices specified in other section for "Seismic Controls for Electrical Systems."
- E. Comply with mounting and anchoring requirements specified in other section for "Seismic Controls for Electrical Systems."
- F. Mount top of trim **90 inches (2286 mm)** above finished floor unless otherwise indicated.
- G. Mount panelboard cabinet plumb and rigid without distortion of box.
- H. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- I. Mount surface-mounted panelboards to steel slotted supports **5/8 inch (16 mm)** in depth. Orient steel slotted supports vertically.
- J. Install overcurrent protective devices and controllers not already factory installed.
  - 1. Set field-adjustable, circuit-breaker trip ranges.
  - 2. Tighten bolted connections and circuit breaker connections using calibrated torque wrench or torque screwdriver per manufacturer's written instructions.
- K. Install filler plates in unused spaces.
- L. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.

### 3.3 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; install warning signs complying with requirements in other section for "Identification for Electrical Systems."
- B. Create a directory to indicate installed circuit loads after balancing panelboard loads; incorporate Owner's final room designations. Obtain approval before installing. Handwritten directories are not acceptable. Install directory inside panelboard door.
- C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."
- D. Device Nameplates: Label each branch circuit device in power panelboards with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."

- E. Install warning signs complying with requirements in other section for "Identification for Electrical Systems" identifying source of remote circuit.

### 3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.
  - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- C. Acceptance Testing Preparation:
  - 1. Test insulation resistance for each panelboard bus, component, connecting supply, feeder, and control circuit.
  - 2. Test continuity of each circuit.
- D. Tests and Inspections:
  - 1. Perform each visual and mechanical inspection and electrical test for low-voltage air circuit breakers stated in NETA ATS, Paragraph 7.6 Circuit Breakers. Perform optional tests. Certify compliance with test parameters.
  - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
  - 3. Perform the following infrared scan tests and inspections and prepare reports:
    - a. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each panelboard. Remove front panels so joints and connections are accessible to portable scanner.
    - b. Instruments and Equipment:
      - 1) Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
- E. Panelboards will be considered defective if they do not pass tests and inspections.
- F. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes scanning results, with comparisons of the two scans. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

### 3.5 ADJUSTING

- A. Adjust moving parts and operable components to function smoothly, and lubricate as recommended by manufacturer.
- B. Set field-adjustable circuit-breaker trip ranges as specified in other section for "Coordination Studies."



- C. Load Balancing: After Substantial Completion, but not more than 60 days after Final Acceptance, measure load balancing and make circuit changes. Prior to making circuit changes to achieve load balancing, inform Architect of effect on phase color coding.
  - 1. Measure loads during period of normal facility operations.
  - 2. Perform circuit changes to achieve load balancing outside normal facility operation schedule or at times directed by the Architect. Avoid disrupting services such as fax machines and on-line data processing, computing, transmitting, and receiving equipment.
  - 3. After changing circuits to achieve load balancing, recheck loads during normal facility operations. Record load readings before and after changing circuits to achieve load balancing.
  - 4. Tolerance: Maximum difference between phase loads, within a panelboard, shall not exceed 20 percent.

### 3.6 PROTECTION

- A. Temporary Heating: Prior to energizing panelboards, apply temporary heat to maintain temperature according to manufacturer's written instructions.

END OF SECTION 262416

## Lead Safe Certification for Pollock Elementary School

Name of Inspector: Charles Rhodes

Inspection Dates: through

Inspection Company: Batta Environmental

ULCS# 8410

ULCS#	On-Site Room Name	ent/	Component	Material	Color	Primary Damage	Component	(mg/cm2)	Component	Component (see)	Substrate Material	Color	(see terms)	Component Damage	(mg/cm2)	Quantity (sf)	ts Need	going	Needed	Comments/ Description/ Notes
8410	001 : Classroom 1		W1	Concrete	Tan	None		-0.1	Negative	Door Frame	Metal	Tan	Chipping		0.3					
8410	001 : Classroom 1		W1							Wall	Transite	Tan	Chipping		0.1					
8410	001 : Classroom 1		W1							Columns	Metal	Tan	Chipping		3.9	5SF				
8410	001 : Classroom 1		W1							Columns	Concrete	Tan	Flaking		0					
8410	001 : Classroom 1		W1							Locker	Metal	Tan	Chipping		0.2					
8410	001 : Classroom 1		W1							Coat Rack	Wood	Tan	Flaking		0.1					
8410	001 : Classroom 1		W1							Shelf Support	Metal	Tan	Chipping		6.9	2SF				
8410	001 : Classroom 1		W1							Wall Support	Metal	Tan	Chipping		8.6	2SF				
8410	001 : Classroom 1		W2	Concrete	Tan	None		-0.2												
8410	001 : Classroom 1		W3	Concrete	Tan	None		0		Columns	Concrete	Tan	Flaking		0.1					
8410	001 : Classroom 1		W3							Uni-vent	Metal	Tan	Chipping		0					
8410	001 : Classroom 1		W4	Concrete	Tan	None		-0.1												
8410	001 : Classroom 1		Ceiling	Concrete	White	None		0.1												
8410	002 : Classroom 2		W1	Concrete	Tan	None		-0.2	Negative	Door Frame	Metal	Tan	Chipping		0.4					
8410	002 : Classroom 2		W1							Wall	Transite	Tan	None		0.1					
8410	002 : Classroom 2		W1							Columns	Metal	Tan	Chipping		3.4	6SF				
8410	002 : Classroom 2		W1							Columns	Concrete	Tan	Flaking		0.1					
8410	002 : Classroom 2		W1							Locker	Metal	Tan	None		0.2					
8410	002 : Classroom 2		W1							Coat Rack	Wood	Tan	Chipping		0					
8410	002 : Classroom 2		W1							Shelf Support	Metal	Tan	Chipping		18.9	2SF				
8410	002 : Classroom 2		W1							Wall Support	Metal	Tan	Chipping		10.6	2SF				
8410	002 : Classroom 2		W2	Concrete	Tan	None		-0.1												
8410	002 : Classroom 2		W3	Concrete	Tan	None		0.2		Columns	Concrete	Tan	Flaking		0.1					
8410	002 : Classroom 2		W3							Uni-vent	Metal	Tan	Chipping		0.1					
8410	002 : Classroom 2		W4	Concrete	Tan	None		0.1												
8410	002 : Classroom 2		Ceiling	Concrete	White	None		1												
8410	002A : Girl's Restroom across from Classroom 3		Ceiling	Concrete	White	Flaking		0.2												
8410	002A : Girl's Restroom across from Classroom 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	002A : Girl's Restroom across from Classroom 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	002A : Girl's Restroom across from Classroom 3		Ceiling	Concrete	White	Flaking		0.1												
8410	002B : Boy's Restroom across from Classroom 1		W2	Concrete	White	Flaking		0.2												
8410	002B : Boy's Restroom across from Classroom 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	002L : Custodial Closet across from Classroom 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	002L : Custodial Closet across from Classroom 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	002L : Custodial Closet across from Classroom 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	002L : Custodial Closet across from Classroom 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
8410	003 : Classroom 3		W1	Concrete	Tan	None		0	Negative	Door Frame	Metal	Tan	Chipping		0.4					
8410	003 : Classroom 3		W1							Wall	Transite	Tan	None		0.2					
8410	003 : Classroom 3		W1							Columns	Metal	Tan	Chipping		4.7	6SF				
8410	003 : Classroom 3		W1							Columns	Concrete	Tan	Flaking		0.1					
8410	003 : Classroom 3		W1							Locker	Metal	Tan	None		0.2					
8410	003 : Classroom 3		W1							Coat Rack	Wood	Tan	Chipping		0					
8410	003 : Classroom 3		W1							Shelf Support	Metal	Tan	Chipping		6.9	2SF				
8410	003 : Classroom 3		W1							Wall Support	Metal	Tan	None		7.8					
8410	003 : Classroom 3		W2	Concrete	Tan	None		0.1												
8410	003 : Classroom 3		W3	Concrete	Tan	None		0.1		Columns	Concrete	Tan	Chipping		0.2					
8410	003 : Classroom 3		W3							Uni-vent	Metal	Tan	Chipping		0					
8410	003 : Classroom 3		W4	Concrete	Tan	None		0												
8410	003 : Classroom 3		Ceiling	Concrete	White	None		0.3												
8410	004 : Classroom 4		W1	Concrete	Tan	None		-0.2	Negative	Door Frame	Metal	Tan	Chipping		-0.1					
8410	004 : Classroom 4		W1							Wall	Transite	Tan	None		0.1					
8410	004 : Classroom 4		W1							Columns	Metal	Tan	Chipping		7.1	5SF				
8410	004 : Classroom 4		W1							Columns	Concrete	Tan	Flaking		0.1					
8410	004 : Classroom 4		W1							Locker	Metal	Tan	None		0.1					
8410	004 : Classroom 4		W1							Coat Rack	Wood	Tan	Chipping		0.1					
8410	004 : Classroom 4		W1							Shelf Support	Metal	Tan	Chipping		11.9	1SF				
8410	004 : Classroom 4		W1							Wall Support	Metal	Tan	Chipping		8.3	2SF				
8410	004 : Classroom 4		W2	Concrete	Tan	None		0												
8410	004 : Classroom 4		W3	Concrete	Tan	None		0		Columns	Concrete	Tan	Flaking		0.2					
8410	004 : Classroom 4		W3							Uni-vent	Metal	Tan	Chipping		0					
8410	004 : Classroom 4		W4	Concrete	Tan	None		-0.1												
8410	004 : Classroom 4		Ceiling	Concrete	White	None		0.1												
8410	005 : Classroom 5		W1	Concrete	Tan	None		0.1	Negative	Door Frame	Metal	Tan	Chipping		0.4					
8410	005 : Classroom 5		W1							Wall	Transite	Tan	None		0.2					
8410	005 : Classroom 5		W1							Columns	Metal	Tan	Chipping		4.3	6SF				
8410	005 : Classroom 5		W1							Columns	Concrete	Tan	Flaking		0					
8410	005 : Classroom 5		W1							Locker	Metal	Tan	None		0.5					
8410	005 : Classroom 5		W1							Coat Rack	Wood	Tan	Chipping		0.1					
8410	005 : Classroom 5		W1							Shelf Support	Metal	Tan	Chipping		14.8	2SF				
8410	005 : Classroom 5		W1							Wall Support	Metal	Tan	Chipping		11.6	2SF				
8410	005 : Classroom 5		W2	Concrete	Tan	None		-0.1												
8410	005 : Classroom 5		W3	Concrete	Tan	None		0		Columns	Concrete	Tan	Flaking		0.1					
8410	005 : Classroom 5		W3							Uni-vent	Metal	Tan	Chipping		0					
8410	005 : Classroom 5		W4	Concrete	Tan	None		-0.2												
8410	005 : Classroom 5		Ceiling	Concrete	White	None		0.2												
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		W1	Concrete	Green	None		0.2	Negative	Door Frame	Metal	Tan	Chipping		0.3					
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		W3							Wall	Transite	Tan	None		0.1					
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		W2	Concrete	Green	None		-0.1												
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		W3	Concrete	Green	None		0.1		Columns	Concrete	Tan	Flaking		0.1					
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		W3							Uni-vent	Metal	Tan	Chipping		-0.1					
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		W4	Concrete	Green	None		0.1												
8410	006 : Room 6 Special Ed. Office (Former Faculty Dining)		Ceiling	Concrete	White	None		0.1												
8410	006A : Women's Restroom across from Boiler																			









8410	100H : Back Hallway between Classrooms 100 and 101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
8410	100H : Back Hallway between Classrooms 100 and 101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
8410	100H : Back Hallway between Classrooms 100 and 101							None													
8410	101 : Classroom 101		W1	Concrete	Tan	None		0		Door Frame	Metal	Tan		Chipping					0.5		
8410	101 : Classroom 101		W2	Concrete	Tan	None		0		Locker	Metal	Tan		None					0.3		
8410	101 : Classroom 101		W3	Concrete	Tan	None		-0.1		Uni-vent	Metal	Tan		Chipping					0		
8410	101 : Classroom 101		W3							Columns	Concrete	Tan		Chipping					0.1		
8410	101 : Classroom 101		W3							Door Frame	Metal	Brown		None					0.6		
8410	101 : Classroom 101		W4	Concrete	Tan	None		-0.3													
8410	101 : Classroom 101		Ceiling	Concrete	White	None		0													
8410	101 : Classroom 101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	101A : Classroom 101 Restroom		W1	Concrete	Tan	None		-0.4		Door Frame	Metal	Tan		Chipping					0.3		
8410	101A : Classroom 101 Restroom		W2	Concrete	Tan	None		-0.3													
8410	101A : Classroom 101 Restroom		W3	Concrete	Tan	None		-0.2													
8410	101A : Classroom 101 Restroom		W4	Concrete	Tan	None		-0.1													
8410	101A : Classroom 101 Restroom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	101C : Classroom 101 Coat Room		W1	Concrete	Tan	None		-0.2													
8410	101C : Classroom 101 Coat Room		W2	Concrete	Tan	None		-0.2													
8410	101C : Classroom 101 Coat Room		W3	Concrete	Tan	None		-0.4													
8410	101C : Classroom 101 Coat Room		W4	Concrete	Tan	None		0													
8410	101C : Classroom 101 Coat Room		Ceiling	Transite	White	None		-0.2													
8410	101E : Classroom 101 Storage Room		W1	Concrete	Tan	None		-0.2		Door Frame	Metal	Tan		Chipping					0.4		
8410	101E : Classroom 101 Storage Room		W2	Concrete	Tan	None		-0.2													
8410	101E : Classroom 101 Storage Room		W3	Concrete	Tan	None		-0.2													
8410	101E : Classroom 101 Storage Room		W4	Concrete	Tan	None		-0.3													
8410	101E : Classroom 101 Storage Room	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102 : Classroom 102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102 : Classroom 102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102 : Classroom 102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102 : Classroom 102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102A : Boy's Restroom across from Classroom 105		Ceiling	Concrete	White	Flaking		0.2													
8410	102A : Boy's Restroom across from Classroom 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102A : Boy's Restroom across from Classroom 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102A : Boy's Restroom across from Classroom 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102B : Girl's Restroom across from Classroom 107		Ceiling	Concrete	White	Flaking		0.4													
8410	102B : Girl's Restroom across from Classroom 107		W1							Door Frame	Metal	Tan		Chipping					0.4		
8410	102B : Girl's Restroom across from Classroom 107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102B : Girl's Restroom across from Classroom 107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102C : Books 4 Storage Room across from Classrooms 105 and 107		W3							Air Duct	Metal	Tan								0.1	
8410	102C : Books 4 Storage Room across from Classrooms 105 and 107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	102C : Books 4 Storage Room across from Classrooms 105 and 107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	103 : Classroom 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	104 : Classroom 104		W1	Concrete	Tan	None		0		Door Frame	Metal	Tan		Chipping					0.4		
8410	104 : Classroom 104		W1							Wall	Transite	Tan		Chipping					0.1	95F	
8410	104 : Classroom 104		W1							Columns	Metal	Tan		Chipping					2.8	65F	
8410	104 : Classroom 104		W1							Locker	Metal	Tan		Chipping					0.2		
8410	104 : Classroom 104		W1							Coat Rack	Wood	Tan		Chipping					0.1		
8410	104 : Classroom 104		W1							Shelf Support	Metal	Tan		Chipping					10.5	25F	
8410	104 : Classroom 104		W1							Wall Support	Metal	Tan		Chipping					13.3	25F	
8410	104 : Classroom 104		W2	Concrete	Tan	None		-0.1													
8410	104 : Classroom 104		W3	Concrete	Tan	None		-0.2		Columns	Concrete	Tan		Chipping					0		
8410	104 : Classroom 104		W3							Uni-vent	Metal	Tan		Chipping					0.1		
8410	104 : Classroom 104		W4	Concrete	Tan	None		-0.1													
8410	104 : Classroom 104		Ceiling	Concrete	White	None		-0.1													
8410	104 : Classroom 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	105 : Classroom 105		W1	Concrete	Tan	None		-0.1		Door Frame	Metal	Tan		Chipping					0.4		
8410	105 : Classroom 105		W1							Wall	Transite	Tan		Chipping					0		
8410	105 : Classroom 105		W1							Columns	Metal	Tan		Chipping					4.1	105F	
8410	105 : Classroom 105		W1							Columns	Concrete	Tan		Chipping					0.2		
8410	105 : Classroom 105		W1							Locker	Metal	Tan		Chipping					0.3		
8410	105 : Classroom 105		W1							Shelf Support	Metal	Tan		Chipping					7.6	45F	
8410	105 : Classroom 105		W1							Wall Support	Metal	Tan		None					10.6		
8410	105 : Classroom 105		W2	Concrete	Tan	None		-0.1													
8410	105 : Classroom 105		W3	Concrete	Tan	Chipping		-0.2		Columns	Concrete	Tan		Chipping					0.2		
8410	105 : Classroom 105		W3							Uni-vent	Metal	Tan		Chipping					0.1		
8410	105 : Classroom 105		W4	Concrete	Tan	Chipping		-0.2													
8410	105 : Classroom 105		Ceiling	Concrete	White	None		0.1													
8410	105 : Classroom 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	105 : Classroom 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	106 : Classroom 106		W1	Concrete	Tan	None		-0.1	Negative	Door Frame	Metal	Tan		Chipping					0.3		
8410	106 : Classroom 106		W1							Wall	Transite	Tan		Chipping					0.2		
8410	106 : Classroom 106		W1							Columns	Metal	Tan		Chipping					4.1	85F	
8410	106 : Classroom 106		W1							Columns	Concrete	Tan		Chipping					0.1		
8410	106 : Classroom 106		W1							Locker	Metal	Tan		Chipping					0.5		
8410	106 : Classroom 106		W1							Shelf Support	Metal	Tan		Chipping					6.9	25F	
8410	106 : Classroom 106		W1							Wall Support	Metal	Tan		None					7.3	45F	
8410	106 : Classroom 106		W1																		
8410	106 : Classroom 106		W2	Concrete	Tan	None		0		Columns	Concrete	Tan		Chipping					0.1		
8410	106 : Classroom 106		W3	Concrete	Tan	None		-0.1		Uni-vent	Metal	Tan		Chipping					0		
8410	106 : Classroom 106		W3																		
8410	106 : Classroom 106		W4	Concrete	Tan	None		-0.2													
8410	106 : Classroom 106		Ceiling	Concrete	White	None		0													
8410	106 : Classroom 106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	106 : Classroom 106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N/A	N/A
8410	107 : Classroom 107		W1	Concrete	Tan	None		0		Door Frame	Metal	Tan		None					0.3		
8410	107 : Classroom 107		W1							Wall	Transite	Tan		Chipping					0		
8410	107 : Classroom 107		W1							Columns	Metal	Tan		Chipping					5.6	15F	
8410	107 : Classroom 107		W1				</														







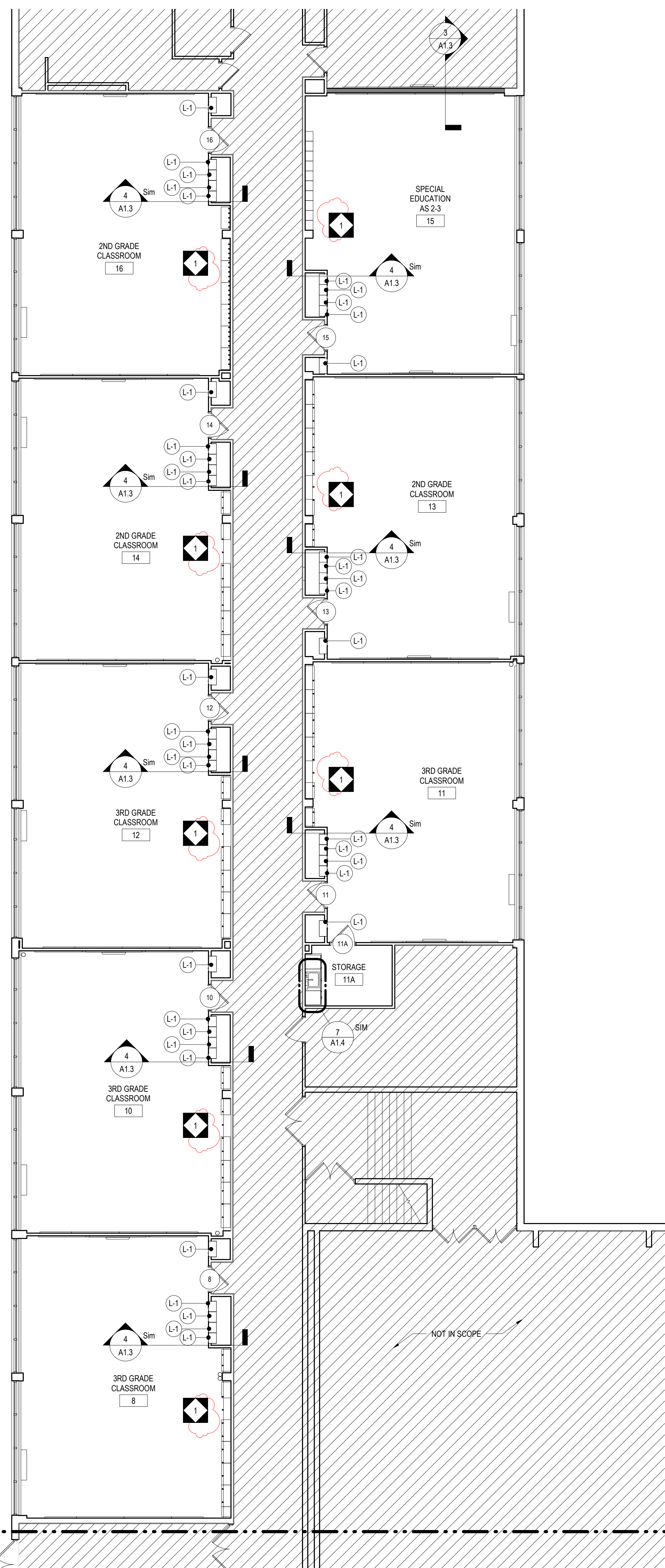
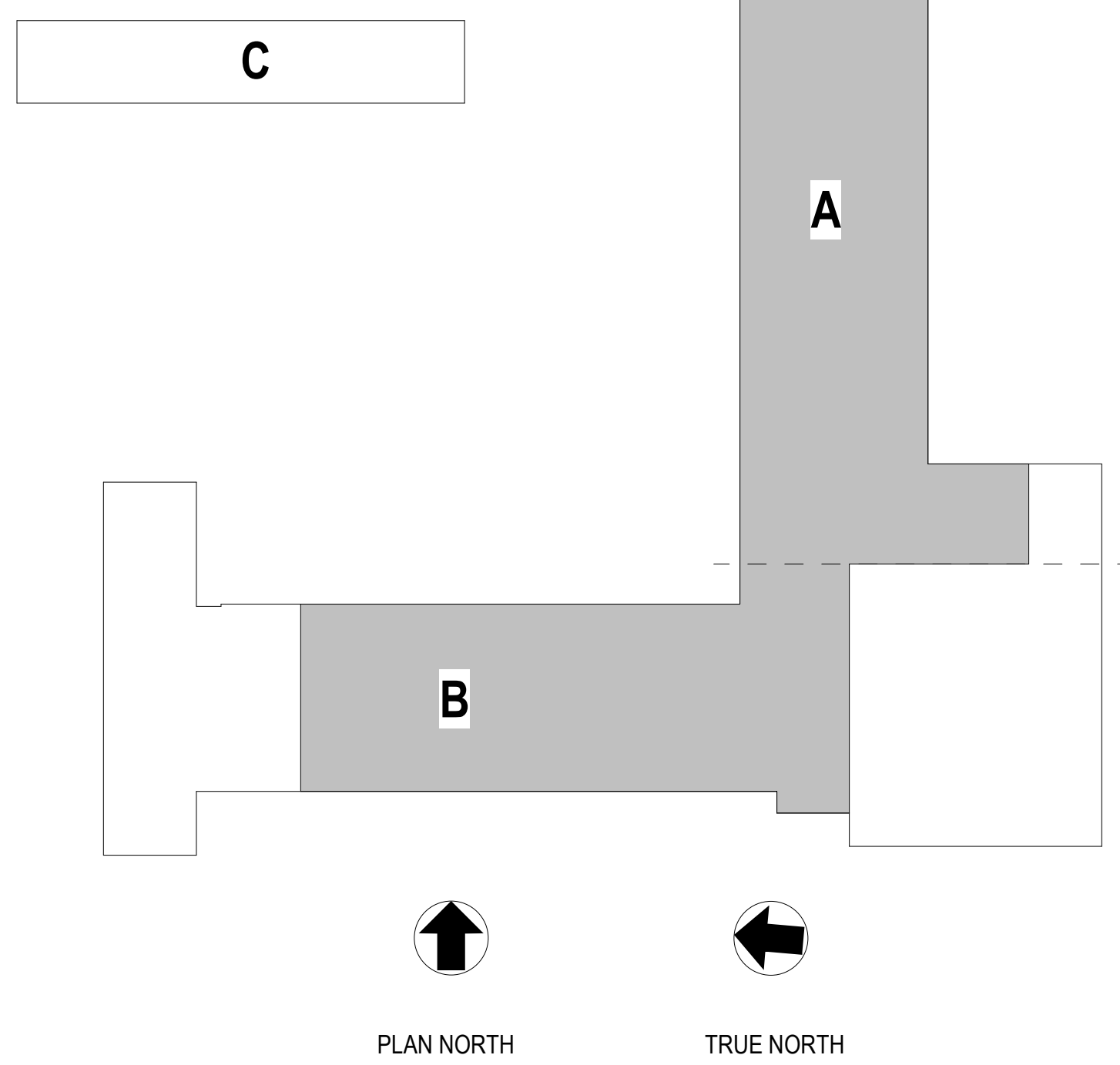
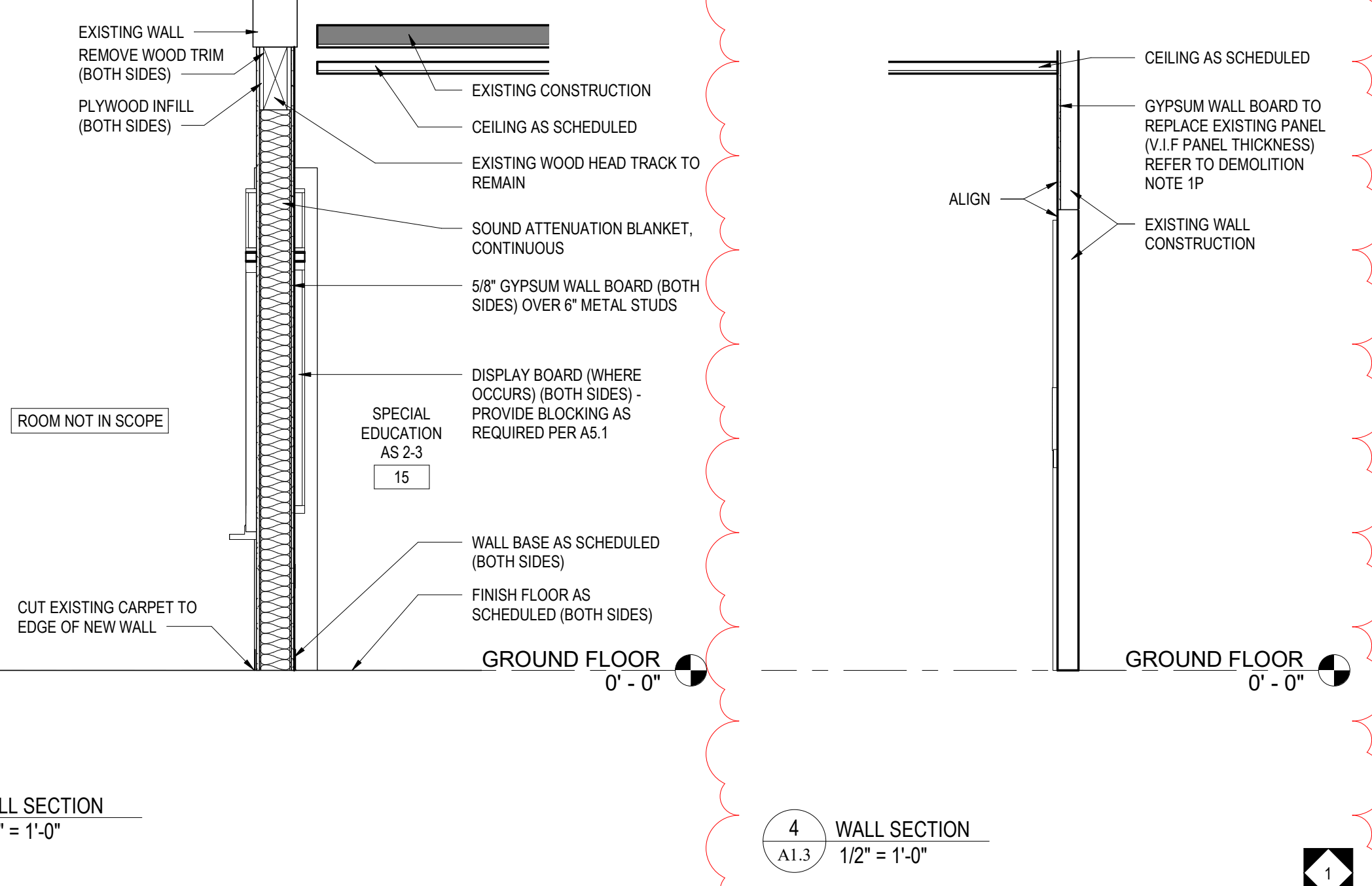




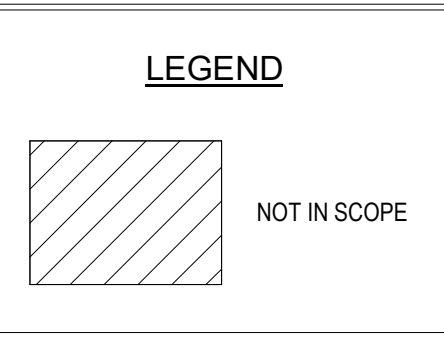
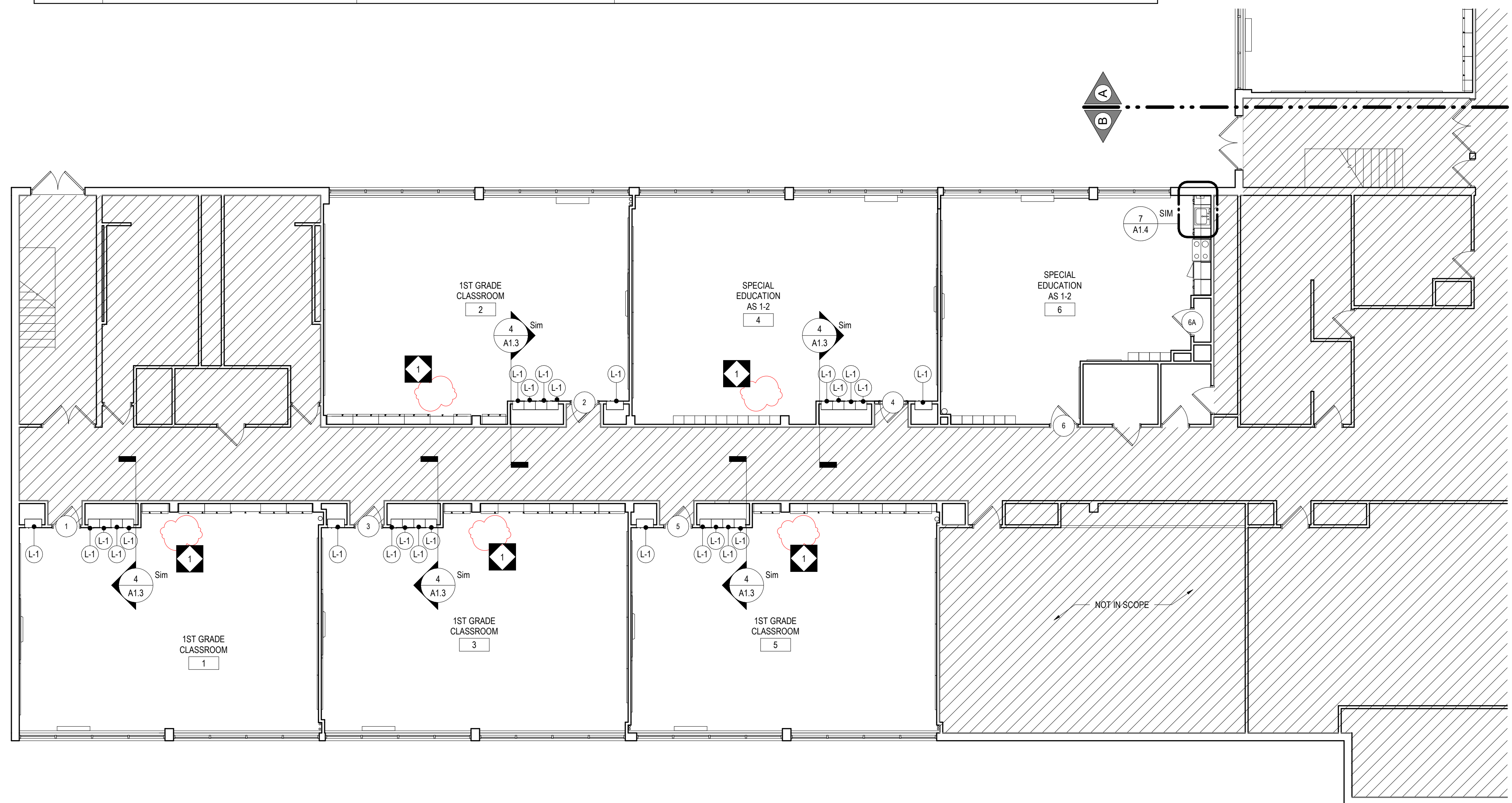




- GENERAL NOTES:**
- REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.
  - ACCESSIBLE FIXTURES ARE INDICATED WITH THE REQUIRED CLEAR FLOOR SPACE CLEARANCES FOR ALL ACCESSIBLE ROUTES & MANEUVERING CLEARANCES.
  - PLUMBING FIXTURE ROUGH-IN DIMENSIONS & TOILET PARTITION LAYOUT DIMENSIONS ARE FROM THE WALL FINISH MATERIAL.
  - PROVIDE WOOD BLOCKING IN STUD WALLS FOR ALL TOILET ACCESSORIES.
  - TOILET PARTITION DIMENSIONS ARE TO THE PANEL CENTERLINE UNLESS NOTED OTHERWISE. MINIMUM CLEAR DIMENSIONS MUST BE PROVIDED WHERE NOTED.
  - COORDINATE ALL WALL FINISHES WITH THE ROOM FINISH SCHEDULE.
  - CONTRACTOR TO CONFIRM WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF ALL SURFACE-MOUNTED TOILET ROOM ACCESSORIES PRIOR TO INSTALLATION.
  - COORDINATE LOCATION OF MEP EQUIPMENT, DEVICES, OUTLET BOXES, ETC. WITH OTHER EQUIPMENT AND FINISH SCHEDULE PRIOR TO INSTALLATION.
  - UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS SHALL BE SET 1/4" MAXIMUM BELOW FINISH FLOOR. DISH FINISH FLOOR A MINIMUM OF 24" RADIUS TO TOP OF FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
  - REFER TO H DRAWINGS FOR ADDITIONAL BUILT-IN CASEWORK DOOR HARDWARE LOCATION AND INFORMATION.



LOCKER HARDWARE SCHEDULE			
No.	DESCRIPTION	HARDWARE	REMARKS
L-1	EXISTING METAL LOCKER ASSEMBLY	PROVIDE REPLACEMENT HANDLE ASSEMBLY SET TO EVERY DOOR, LYON BRAND LL1741 OR EQUAL. PROVIDE REPLACEMENT AND/OR INSTALL LOCK CYLINDER SET TO EVERY DOOR, PRIME-LINE MP4140 LOCK OR EQUAL. COLOR TO BE STEEL. REPLACE ANY/ALL HOOKS WITHIN ASSEMBLY WITH NEW, SINGLE PRONG SIDE HOOK LU126 OR SIMILAR.	REMOVE ANY/ALL OBSOLETE EQUIPMENT AND FASTENERS (ALL SURFACES). REMOVE ALL DIRT, LOOSE PAINT AND RUST, AND OTHER FOREIGN ITEMS. EXISTING CHIPPED, DETERIORATED AND UNEVEN EXISTING COATINGS SHALL BE COMPLETELY REMOVED FROM ENTIRE ASSEMBLY. SAND ENTIRE ASSEMBLY. FOLLOW WITH SPECIFIED ELECTROSTATIC COATINGS PER MANUFACTURER'S INSTRUCTIONS TO ALL METAL SURFACES. WHERE THE EXISTING FINISH IS INCOMPATIBLE WITH NEW SCHEDULED COATINGS, THE EXISTING FINISH SHALL BE COMPLETELY REMOVED. REMOVE AND REINSTALL EXISTING ASSEMBLY WITH NEW FINISH AND HARDWARE BACK TO EXISTING LOCATION. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR AND HARDWARE REQUIREMENTS.



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1	2/27/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**ROBERT B. POLLOCK  
ELEMENTARY SCHOOL**

MAILING ADDRESS: 2875 WELSH ROAD, PHILADELPHIA PA 19152  
DEED ADDRESS: 2951 WELSH RD, PHILADELPHIA, PA 19152-1607

PROJECT TITLE  
**CLASSROOM  
MODERNIZATION**

DRAWING TITLE  
**GROUND FLOOR PLAN -  
UNIT A-B**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY

B-025C	OF	19 / 20
B-027C	OF	19 / 20

DRAWING NO.  
**A1.3**

2 GROUND FLOOR PLAN - UNIT B  
1/8" = 1'-0"

1 GROUND FLOOR PLAN - UNIT A  
1/8" = 1'-0"



SEAL:



R. JEFFREY STRAUB, AIA  
STATE AND LICENSE NO: RA033652

ARCHITECT

CRABTREE, ROHRBAUGH & ASSOCIATES  
401 E. Winding Hill Road  
Mechanicsburg, PA 17055  
Phone: 717-458-0272

A/E: Jessie Ellis  
Email: jellis@cro-architects.com

MEP ENGINEERS

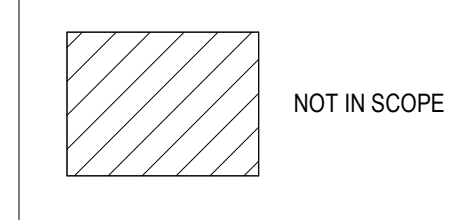
SEITY & ASSOCIATES, LTD.  
1515 Market Street, Suite 1200  
Philadelphia, PA 19102  
Phone: 703-919-5614

A/E: Deepak Ajimane  
Email: deepak.aj@seity.com

GENERAL NOTES:

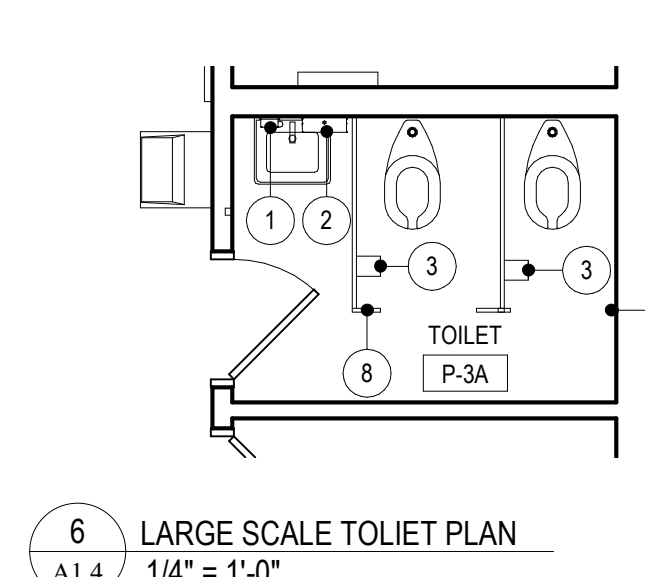
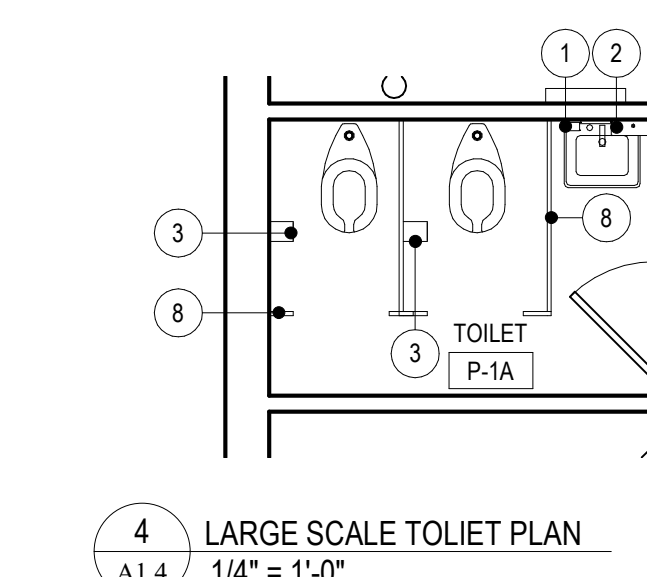
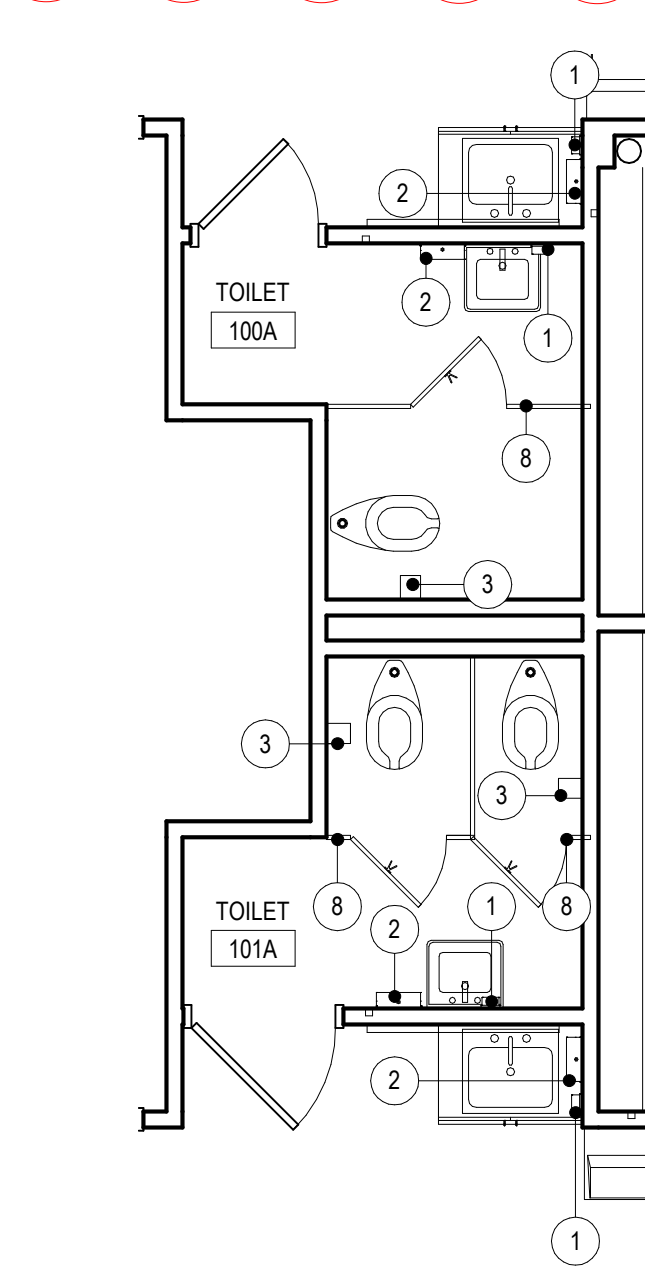
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- COORDINATE LOCATION OF MEP EQUIPMENT, DEVICES, OUTLET BOXES, ETC. WITH OTHER EQUIPMENT AND FINISH SCHEDULE PRIOR TO INSTALLATION.
- UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS SHALL BE SET 1/4" MAXIMUM BELOW FINISH FLOOR. DISH FINISH FLOOR A MINIMUM OF 24" RADIUS TO TOP OF FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
- REFER TO H DRAWINGS FOR ADDITIONAL BUILT-IN CASEWORK DOOR HARDWARE LOCATION AND INFORMATION.

LEGEND



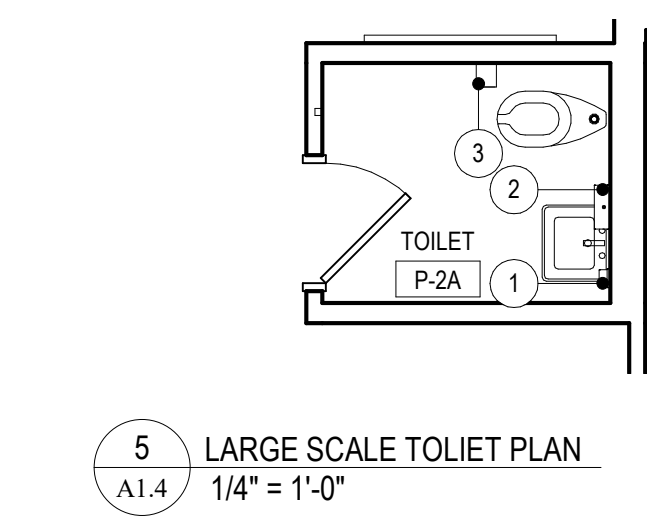
2 FIRST FLOOR PLAN - UNIT C  
A1.4 1/8" = 1'-0"

No.	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL
1	SOAP DISPENSER	44" MAXIMUM AFF TO PUSH BUTTON	KIMBERLY-CLARK - SDP SUPPLIED & GC INSTALLED	92145
2	SURFACE MOUNTED PAPER TOWEL DISPENSER	48" MAXIMUM TO OUTLET OF DISPENSER	KIMBERLY-CLARK - GC SUPPLIED & INSTALLED	29734
3	SURFACE MOUNTED TOILET PAPER DISPENSER	TISSUE ACCESS @ 19" MIN AFF	KIMBERLY-CLARK - GC SUPPLIED & INSTALLED	09507
8	TOILET PARTITION	AS SPECIFIED	AS SPECIFIED	-

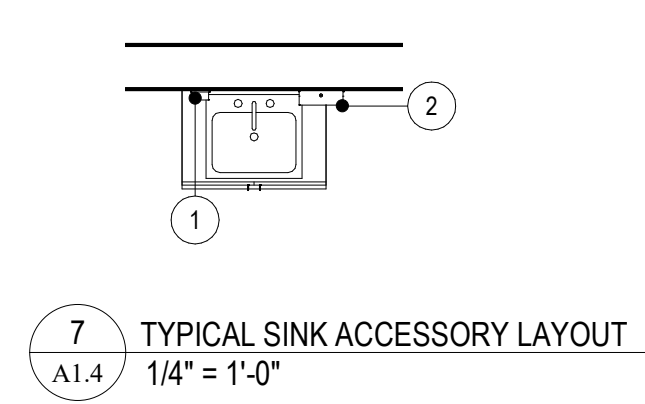


4 LARGE SCALE TOILET PLAN  
A1.4 1/4" = 1'-0"

6 LARGE SCALE TOILET PLAN  
A1.4 1/4" = 1'-0"



5 LARGE SCALE TOILET PLAN  
A1.4 1/4" = 1'-0"



7 TYPICAL SINK ACCESSORY LAYOUT  
A1.4 1/4" = 1'-0"

3 LARGE SCALE TOILET PLAN  
A1.4 1/4" = 1'-0"

No.	DESCRIPTION	HARDWARE	REMARKS
L-1	EXISTING METAL LOCKER ASSEMBLY	PROVIDE REPLACEMENT HANDLE ASSEMBLY SET TO EVERY DOOR. LYON BRAND LL1741 OR EQUAL. PROVIDE REPLACEMENT AND/OR INSTALL LOCK CYLINDER SET TO EVERY DOOR. PRIME-LINE MP4140 LOCK OR EQUAL. COLOR TO BE STEEL. REPLACE ANY/ALL HOOKS WITHIN ASSEMBLY WITH NEW, SINGLE PRONG SIDE HOOK LU126 OR SIMILAR.	REMOVE ANY/ALL OBSOLETE EQUIPMENT AND FASTENERS (ALL SURFACES). REMOVE ALL DIRT, LOOSE PAINT AND RUST, AND OTHER FOREIGN ITEMS. EXISTING CHIPPED, DETERIORATED AND UNEVEN EXISTING COATINGS SHALL BE COMPLETELY REMOVED FROM ENTIRE ASSEMBLY. SAND ENTIRE ASSEMBLY. FOLLOW WITH SPECIFIED ELECTROSTATIC COATINGS PER MANUFACTURER'S INSTRUCTIONS TO ALL METAL SURFACES. WHERE THE EXISTING FINISH IS INCOMPATIBLE WITH NEW SCHEDULED COATINGS, THE EXISTING FINISH SHALL BE COMPLETELY REMOVED. REMOVE AND REINSTALL EXISTING ASSEMBLY WITH NEW FINISH AND HARDWARE BACK TO EXISTING LOCATION. CONTRACTOR SHALL VERIFY IN FIELD ALL DOOR AND HARDWARE REQUIREMENTS.

1 FIRST FLOOR PLAN - UNIT B  
A1.4 1/8" = 1'-0"



KEY PLAN

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1	2/27/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**ROBERT B. POLLOCK  
ELEMENTARY SCHOOL**

MAILING ADDRESS: 2875 WELSH ROAD, PHILADELPHIA PA 19152  
DEED ADDRESS: 2951 WELSH RD, PHILADELPHIA, PA 19152-1607

PROJECT TITLE  
**CLASSROOM  
MODERNIZATION**

DRAWING TITLE  
**FIRST FLOOR PLAN - UNIT  
B-C**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY
B-025C OF 19 / 20	B-027C OF 19 / 20

DRAWING NO.  
**A1.4**



SEAL:



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1	2/27/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION  
**ROBERT B. POLLOCK  
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MAILING ADDRESS: 2875 WELSH ROAD, PHILADELPHIA PA 19152  
DEED ADDRESS: 2951 WELSH RD, PHILADELPHIA, PA 19152-1607

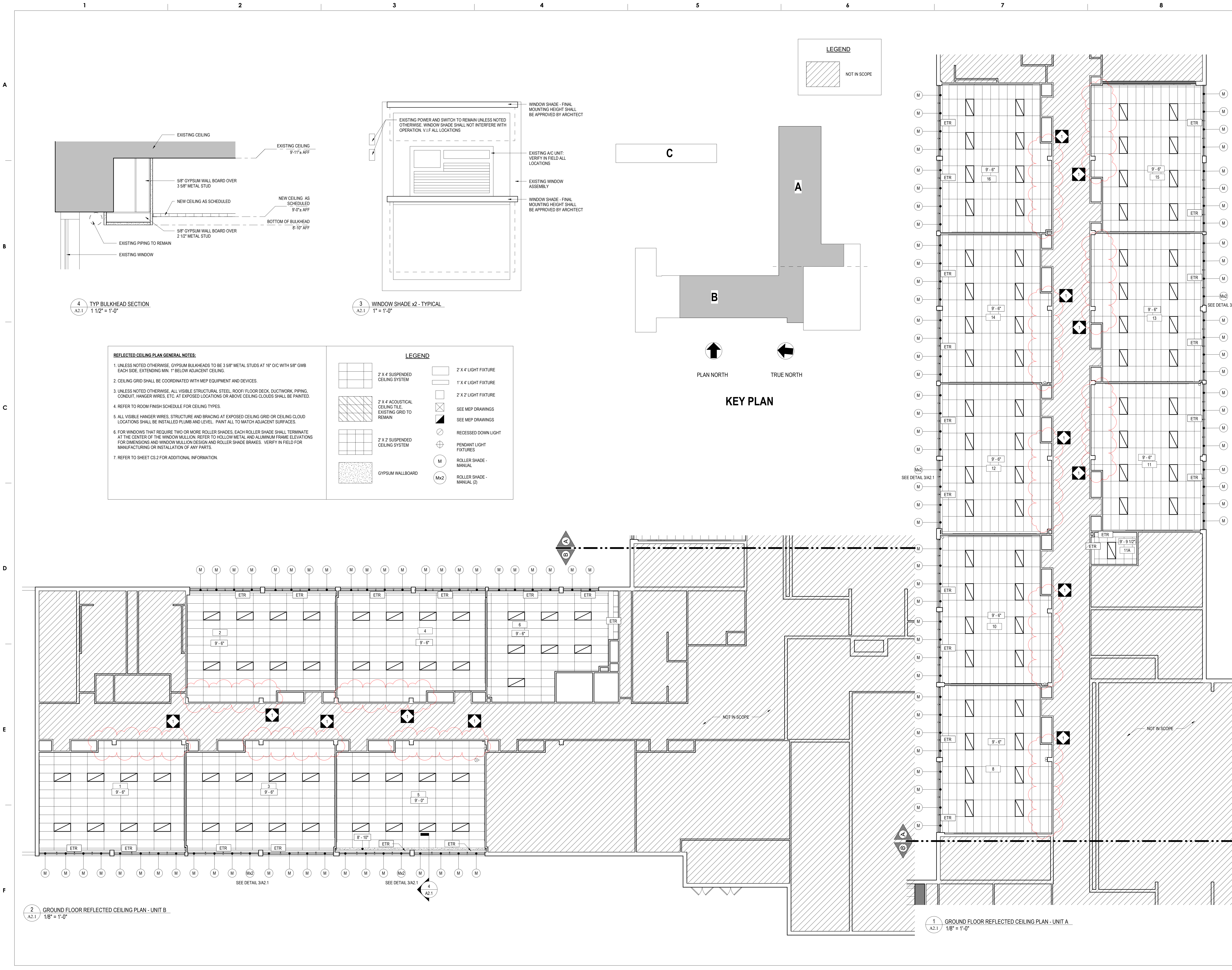
PROJECT TITLE  
**CLASSROOM  
MODERNIZATION**

DRAWING TITLE  
**GROUND FLOOR REFLECTED  
CEILING PLAN - UNIT A-B**

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY

B-025C	OF	19 / 20
B-027C	OF	19 / 20

DRAWING NO.  
**A2.1**



4 TYP BULKHEAD SECTION  
1 1/2" = 1'-0"

3 WINDOW SHADE x2 - TYPICAL  
1" = 1'-0"

- REFLECTED CEILING PLAN GENERAL NOTES:**
- UNLESS NOTED OTHERWISE, GYPSUM BULKHEADS TO BE 3 5/8" METAL STUDS AT 16" O/C WITH 5/8" GWB EACH SIDE, EXTENDING MIN. 1" BELOW ADJACENT CEILING.
  - CEILING GRID SHALL BE COORDINATED WITH MEP EQUIPMENT AND DEVICES.
  - UNLESS NOTED OTHERWISE, ALL VISIBLE STRUCTURAL STEEL, ROOF/FLOOR DECK, DUCTWORK, PIPING, CONDUIT, HANGER WIRES, ETC. AT EXPOSED LOCATIONS OR ABOVE CEILING CLOUDS SHALL BE PAINTED.
  - REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.
  - ALL VISIBLE HANGER WIRES, STRUCTURE AND BRACING AT EXPOSED CEILING GRID OR CEILING CLOUD LOCATIONS SHALL BE INSTALLED PLUMB AND LEVEL. PAINT ALL TO MATCH ADJACENT SURFACES.
  - FOR WINDOWS THAT REQUIRE TWO OR MORE ROLLER SHADES, EACH ROLLER SHADE SHALL TERMINATE AT THE CENTER OF THE WINDOW MULLION. REFER TO HOLLOW METAL AND ALUMINUM FRAME ELEVATIONS FOR DIMENSIONS AND WINDOW MULLION DESIGN AND ROLLER SHADE BRAKES. VERIFY IN FIELD FOR MANUFACTURING OR INSTALLATION OF ANY PARTS.
  - REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.

**LEGEND**

	2' X 4' SUSPENDED CEILING SYSTEM		2' X 4' LIGHT FIXTURE
	2' X 4' ACOUSTICAL CEILING TILE, EXISTING GRID TO REMAIN		1' X 4' LIGHT FIXTURE
	2' X 2' SUSPENDED CEILING SYSTEM		2' X 2' LIGHT FIXTURE
	GYPSUM WALLBOARD		SEE MEP DRAWINGS
			SEE MEP DRAWINGS
			RECESSED DOWN LIGHT
			PENDANT LIGHT FIXTURES
			ROLLER SHADE - MANUAL
			ROLLER SHADE - MANUAL (2)

2 GROUND FLOOR REFLECTED CEILING PLAN - UNIT B  
1/8" = 1'-0"

1 GROUND FLOOR REFLECTED CEILING PLAN - UNIT A  
1/8" = 1'-0"





NUMBER	NAME	COLOR SCHEME	FLOOR	BASE	WALLS			CEILING FINISH	REMARKS
					WALL FINISH	WAINSCOT			
						FINISH	HEIGHT		
GROUND FLOOR									
1	1ST GRADE CLASSROOM	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
2	1ST GRADE CLASSROOM	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
3	1ST GRADE CLASSROOM	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
4	SPECIAL EDUCATION AS 1-2	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
5	1ST GRADE CLASSROOM	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
6	SPECIAL EDUCATION AS 1-2	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
8	3RD GRADE CLASSROOM	D	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
10	3RD GRADE CLASSROOM	D	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
11	3RD GRADE CLASSROOM	D	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
11A	STORAGE	D	VCT	VB/EPX4	PNT			ACT/PNT	R77
12	3RD GRADE CLASSROOM	D	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
13	2ND GRADE CLASSROOM	C	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
14	2ND GRADE CLASSROOM	C	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
15	SPECIAL EDUCATION AS 2-3	B	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
16	2ND GRADE CLASSROOM	C	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
FIRST FLOOR									
100	KINDERGARTEN	A	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
100A	TOILET	G	PT	CT	EPX2	CT	7'-0"		R52
100B	STORAGE	A	VCT	VB/EPX4	PNT			ACT	
100C	STORAGE	A	VCT	VB/EPX4	PNT			ACT/PNT	R77
101	KINDERGARTEN	A	VCT	VB/EPX4	PNT			ACT/PNT	R53, R77
101A	TOILET	G	PT	CT	EPX2	CT	7'-0"		R52
101B	STORAGE	A	VCT	VB/EPX4	PNT			ACT	
P-1	KINDERGARTEN	A	VCT	VB	PNT			ACT	R53
P-1A	TOILET	G	PT	CT	EPX1	CT	7'-0"		R52
P-1B	STORAGE	A	VCT	VB	PNT			ACT	
P-1C	UTILITY	--	ETR	ETR	ETR			ETR	
P-2	SPECIAL EDUCATION AS K	B	VCT	VB	PNT			ACT	R53
P-2A	TOILET	G	PT	CT	EPX1	CT	7'-0"		R52
P-2B	UTILITY	--	ETR	ETR	ETR			ETR	
P-2C	STORAGE	B	VCT	VB	PNT			ACT	
P-2D	STORAGE	B	VCT	VB	PNT			ACT	
P-3	KINDERGARTEN	A	VCT	VB	PNT			ACT	R53
P-3A	TOILET	G	PT	CT	EPX1	CT	7'-0"		R52
P-3B	UTILITY	--	ETR	ETR	ETR			ETR	
P-3C	STORAGE	A	VCT	VB	PNT			ACT	
P-3D	UTILITY	--	ETR	ETR	ETR			ETR	

COLOR SCHEME A - KINDERGARTEN CLASSROOMS-ORANGE & GREEN	
1. WALL PAINT: SHERWIN WILLIAMS, NO. SW7044 AMAZING GRAY	
2. ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9171 FELTED WOOL	
3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6890 OSAGE ORANGE	
4. VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51803 PEARL WHITE	
5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51866 LITTLE GREEN APPLE	
6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 51947 BASIL GREEN	
7. VERTICAL CASEWORK WOOD FINISH: <b>COLOR TO BE SELECTED BY OWNER.</b>	
8. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY	
SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.	
COLOR SCHEME B - FIRST GRADE & SPECIAL EDUCATION CLASSROOMS-BLUE & RED	
1. WALL PAINT: SHERWIN WILLIAMS, NO. SW7044 AMAZING GRAY	
2. ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9171 FELTED WOOL	
3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6765 SPA	
4. VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51803 PEARL WHITE	
5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY	
6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57509 LEMON LICK	
7. VERTICAL CASEWORK WOOD FINISH: <b>COLOR TO BE SELECTED BY OWNER.</b>	
8. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY	
SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.	
COLOR SCHEME C - SECOND GRADE CLASSROOMS-BLUE & ORANGE	
1. WALL PAINT: SHERWIN WILLIAMS, NO. SW6233 SAMOVAR SILVER	
2. ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9143 CADET	
3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6767 AQUARIUM	
4. VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51860 SOFT COOL GRAY	
5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY	
6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57516 SCREAMIN' PUMPKIN	
7. VERTICAL CASEWORK WOOD FINISH: <b>COLOR TO BE SELECTED BY OWNER.</b>	
8. VINYL BASE: JOHNSONITE, NO. 262 DRIZZLE	
SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.	
COLOR SCHEME D - THIRD GRADE CLASSROOMS-BLUE & YELLOW	
1. WALL PAINT: SHERWIN WILLIAMS, NO. SW6233 SAMOVAR SILVER	
2. ACCENT PAINT 'A' STORAGE: SHERWIN WILLIAMS, NO. SW9143 CADET	
3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6903 CHEERFUL	
4. VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51860 SOFT COOL GRAY	
5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 57517 BODACIOUS BLUE	
6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 59230 VICTORIA BLUE	
7. VERTICAL CASEWORK WOOD FINISH: <b>COLOR TO BE SELECTED BY OWNER.</b>	
8. VINYL BASE: JOHNSONITE, NO. 262 DRIZZLE	
SEE ENLARGED FLOOR PLANS FOR FLOOR PATTERNS AND ACCENT WALL COLOR LOCATIONS.	
COLOR SCHEME E NOT USED	
COLOR SCHEME F NOT USED	
COLOR SCHEME G BATHROOMS	
1. WALL PAINT: SHERWIN WILLIAMS, NO. SW7029 AGREEABLE GRAY	
2. PORCELAIN FLOOR TILE: DAL TILE, EVER PORCELAIN, COLOR: EV03 ARCTIC UNPOLISHED	
3. PORCELAIN WALL TILE, FIELD: DAL TILE, SEMI-GLOSS GLAZED TILE, Q182 SUEDE GRAY	
4. PORCELAIN WALL TILE, ACCENT '1': DAL TILE, SEMI-GLOSS GLAZED TILE, Q151 TOTALLY TANGERINE	
5. PORCELAIN WALL TILE, ACCENT '2': DAL TILE, SEMI-GLOSS GLAZED TILE, Q097 ORANGE BURST	
6. GROUT COLOR FOR WALLS: MAPEI, COLOR: 00 WHITE	
7. GROUT COLOR FOR FLOORS: MAPEI, COLOR: 27 SILVER	
SEE ENLARGED PLANS FOR ACCENT WAINSCOT COLOR LOCATIONS.	
GENERAL NOTES:	
THE FOLLOWING MATERIALS ARE TO BE APPLIED AT ALL LOCATIONS WHERE SPECIFIED UNLESS OTHERWISE NOTED:	
1. TACK BOARDS: CLARIDGE FABRICORK, KL498 WINTHROPE	
2. ROLLER WINDOW SHADES: MERMET, GREENSCREEN REVIVE, 5% OPEN, COLOR: 0.22 STONE	
3. SOLID SURFACE COUNTERTOP & SIDE/BACK SPLASH: CORIAN, COLOR: DEEP CAVIAR	
4. CEILING PAINT: SHERWIN WILLIAMS, NO. SW7006 EXTRA WHITE	
5. PREVIOUSLY PAINTED WOOD COMPONENTS: DOORS, TRIM, BASE, CHAIR RAIL, CROWN MOULDING, VISUAL DISPLAY TRIM, WINDOW SILLS: SHERWIN WILLIAMS, NO. SW7068 GRIZZLE GRAY	
6. PREVIOUSLY STAINED WOOD COMPONENTS: WOOD DOORS, WOOD TRIM, WOOD BASE, VISUAL DISPLAY BOARD TRIM, ETC.: <b>COLOR TO MATCH EXISTING AND FIELD VERIFIED BY ARCHITECT/OWNER.</b>	
7. NOT USED.	
8. PREVIOUSLY PAINTED METAL TIERED COAT HOOKS & PREVIOUSLY PAINTED STUDENT CUBBIES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.	
NOTES:	
A. IF ROOM IS NOT INDICATED TO RECEIVE A FLOOR PATTERN, FIELD COLOR VCT SHALL BE USED.	
B. VCT ORIENTATION SHALL BE MATCHED TO EXISTING ADJACENT ROOM.	
C. ARCHITECT REQUIRES AN ON-SITE MOCK-UP FOR EACH PAINT COLOR. PROVIDE A MINIMUM 8'x10' AREA, A DOOR FRAME. CONTRACTOR MUST RECEIVE ARCHITECT'S APPROVAL BEFORE ORDERING.	
D. VERTICAL AND HORIZONTAL PLANES OF SOFFIT AND BULKHEAD SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR, UNLESS OTHERWISE NOTED.	
E. COORDINATE ROOM FINISH SCHEDULE AND COLOR SCHEME SCHEDULE WITH DEMOLITION NOTES.	
F. ALL EXPOSED MECHANICAL, PLUMBING, ELECTRICAL & HVAC COMPONENTS SHALL BE PAINTED THE ADJACENT WALL COLOR. ITEMS INCLUDING BUT NOT LIMITED TO: PIPING, CONDUIT, VENTS, LOUVERS, GRILLES, RADIATORS, RADIATOR COVERS, ELECTRICAL PANELS, METAL ACCESS PANELS SHALL BE PAINTED ADJACENT WALL COLOR.	

ROOM FINISH SCHEDULE LEGEND	
FLOOR FINISH	
PT	PORCELAIN TILE
VCT	VINYL COMPOSITION TILE
FLOOR REMARKS	
R1-R25:	NOT USED
BASE FINISH	
CT	CERAMIC TILE
EPX	EPOXY PAINT
VB	VINYL
BASE REMARKS	
R26-R50:	NOT USED
WALL FINISH	
CT	CERAMIC TILE
EPX	EPOXY PAINT
PNT	PAINT
WALL REMARKS	
R51:	NOT USED
R52:	SEE INTERIOR ELEVATIONS FOR VARYING WALL MATERIALS.
R53:	PROVIDE ACCENT WALL.
R54-R75:	NOT USED
CEILING FINISH	
ACT	ACOUSTICAL CEILING TILE
PNT	PAINTED GYPSUM WALLBOARD/PLASTER
CEILING REMARKS	
R76:	NOT USED
R77:	SEE REFLECTED CEILING PLANS FOR VARYING CEILING MATERIALS AND HEIGHTS.
R78-R100:	NOT USED
GENERAL NOTES	
1.	REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEM/TYPES.
2.	REFER TO WALL TYPES FOR MASONRY LOCATIONS AND DETAILS.
3.	GYPSUM WALLBOARD BULKHEADS AND SOFFITS SHALL BE PAINTED.
4.	ALL HOLLOW METAL DOOR AND FRAMES, INTERIOR AND EXTERIOR, SHALL BE PAINTED.
5.	ALL INTERIOR FERROUS METAL SHALL BE PAINTED INCLUDING LINTELS, RAILINGS, GRILLES AND LOUVERS. (DOES NOT INCLUDE FACTORY OR PRE-FINISHED ITEMS)
6.	SEE I7 DRAWINGS FOR MATERIAL TRANSITIONS & FLOOR PATTERN PLANS.
7.	ETR = EXISTING TO REMAIN
8.	EXIST = EXISTING

OPENING NUMBER	DOOR TYPE	EXISTING / NEW	DOOR MATERIAL	DOOR SCHEDULED FINISH	DIMENSIONS			FRAME			GLAZING/ INFILL TYPE	HARDWARE SET	REMARKS	
					WIDTH		HEIGHT	FRAME TYPE	FRAME MATERIAL	FRAME SCHEDULED FINISH				
					LEAF 1	LEAF 2								
GROUND FLOOR														
1	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-02	B, F, G	
2	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-02	B, F, G	
3	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-02	B, F, G	
4	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-02	B, F, G	
5	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-02	B, F, G	
6	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-02	B, F, G	
6A	F	ETR	WD	PNT	3'-0"		7'-0"	ETR	HM	PNT		POL-05	B, F, G	
8	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
10	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
11	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
11A	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	ETR	POL-05	B, F, G	
12	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
13	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
14	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
15	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
16	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-02	B, F, G, I	
FIRST FLOOR														
100	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-06	B, F, G, I	
100A	F	ETR	WD	STN	2'-6"		7'-2"	ETR	HM	PNT	--	POL-04	B, F, G	
100B	F	ETR	WD	STN	2'-8"		7'-0"	ETR	HM	PNT	--	POL-03	B, F, G	
100C	N	ETR	HM	PNT	3'-0"		7'-0"	ETR	HM	PNT	ETR		A, F, G	
100D	N	ETR	HM	PNT	3'-0"		7'-4"	ETR	HM	PNT	ETR		A, F, H	
101	N	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	TG	POL-06	B, F, G, I	
101A	F	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	--	POL-04	B, F, G	
101B	F	ETR	WD	STN	2'-8"		7'-0"	ETR	HM	PNT	--	POL-03	B, F, G	
101C	N	ETR	HM	PNT	3'-0"		7'-0"	ETR	HM	PNT	ETR		A, F, G	
P-1A	F	ETR	WD	STN	2'-6"		7'-0"	ETR	HM	PNT	--	POL-04	B, F, G	
P-1B	F	ETR	WD	STN	2'-6"		7'-0"	ETR	HM	PNT	--	POL-03	B, F, G	
P-1C	F	ETR	WD	STN	2'-6"		7'-0"	ETR	HM	PNT	--	POL-03	B, F, G	
P-1D	F	ETR	WD	STN	2'-8"		7'-0"	ETR	HM	PNT	--	POL-05	B, F, G	
P-1E	N	ETR	HM	PNT	3'-0"		7'-0"	ETR	HM	PNT	ETR		A, F, H	
P-1F	N	ETR	HM	PNT	3'-0"		7'-0"	ETR	HM	PNT	ETR		A, F, H	
P-2A	F	ETR	WD	STN	2'-6"		7'-0"	ETR	HM	PNT	--	POL-04	B, F, G	
P-2B	F	ETR	WD	STN	2'-8"		7'-0"	ETR	HM	PNT	--	POL-05	B, F, G	
P-2C	F	ETR	WD	STN	3'-0"		7'-0"	ETR	HM	PNT	--	POL-03	B, F, G	
P-2D	F	ETR	WD	STN	2'-6"		7'-0"	ETR	HM	PNT	--	POL-03	B, F, G	
P-2E	N	ETR	WD											







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**100% DESIGN SUBMISSION**  
1/22/2020

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1	02/27/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION  
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2875 WELSH ROAD, PHILADELPHIA  
PA 19152

PROJECT TITLE

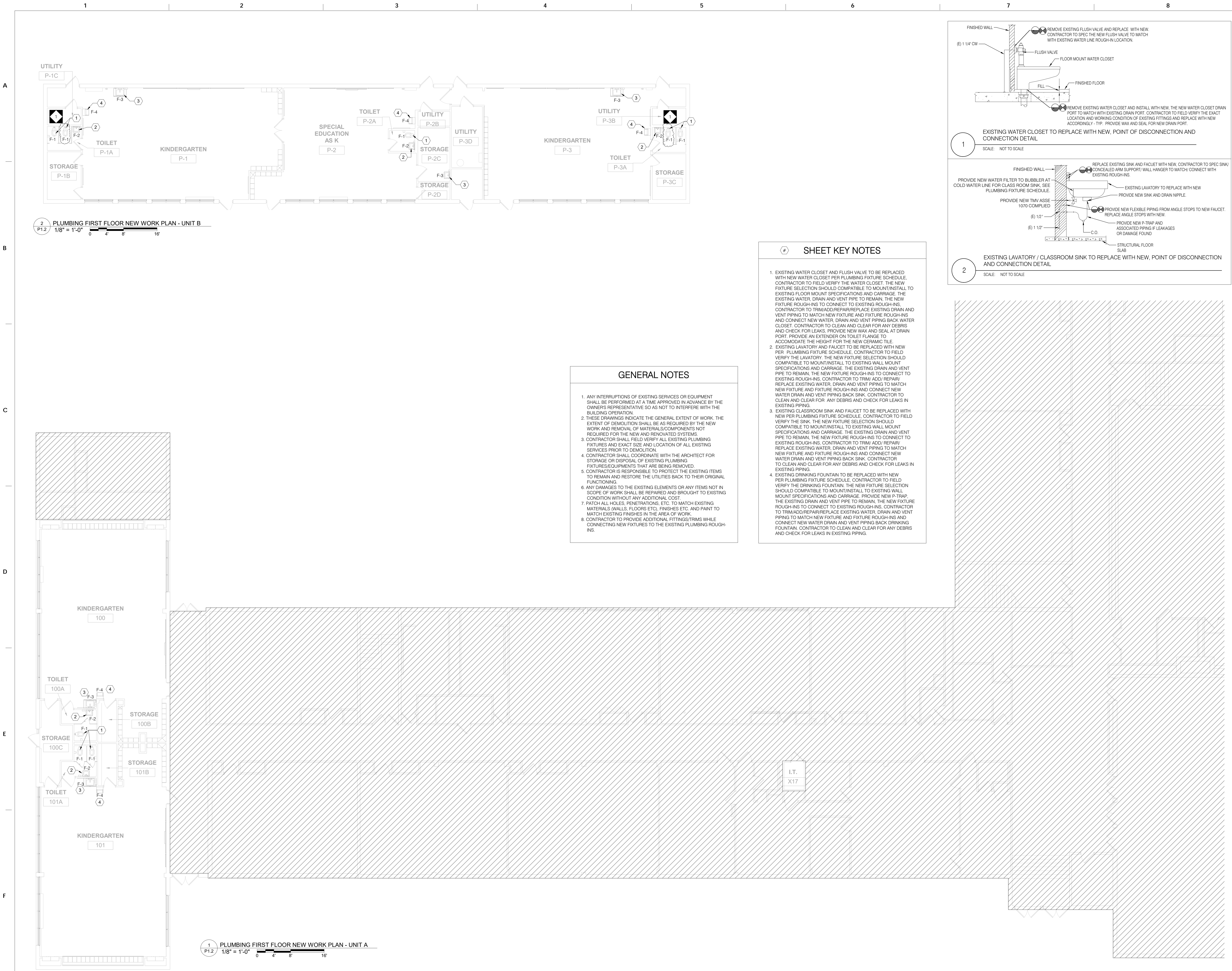
DRAWING TITLE

**PLUMBING FIRST FLOOR  
NEW WORK PLAN - UNIT A-B**

LOCATION NO.	FILE NO.
B-039C	OF 2018 / 19
B-040C	OF 2018 / 19

DRAWING NO.

**P1.2**

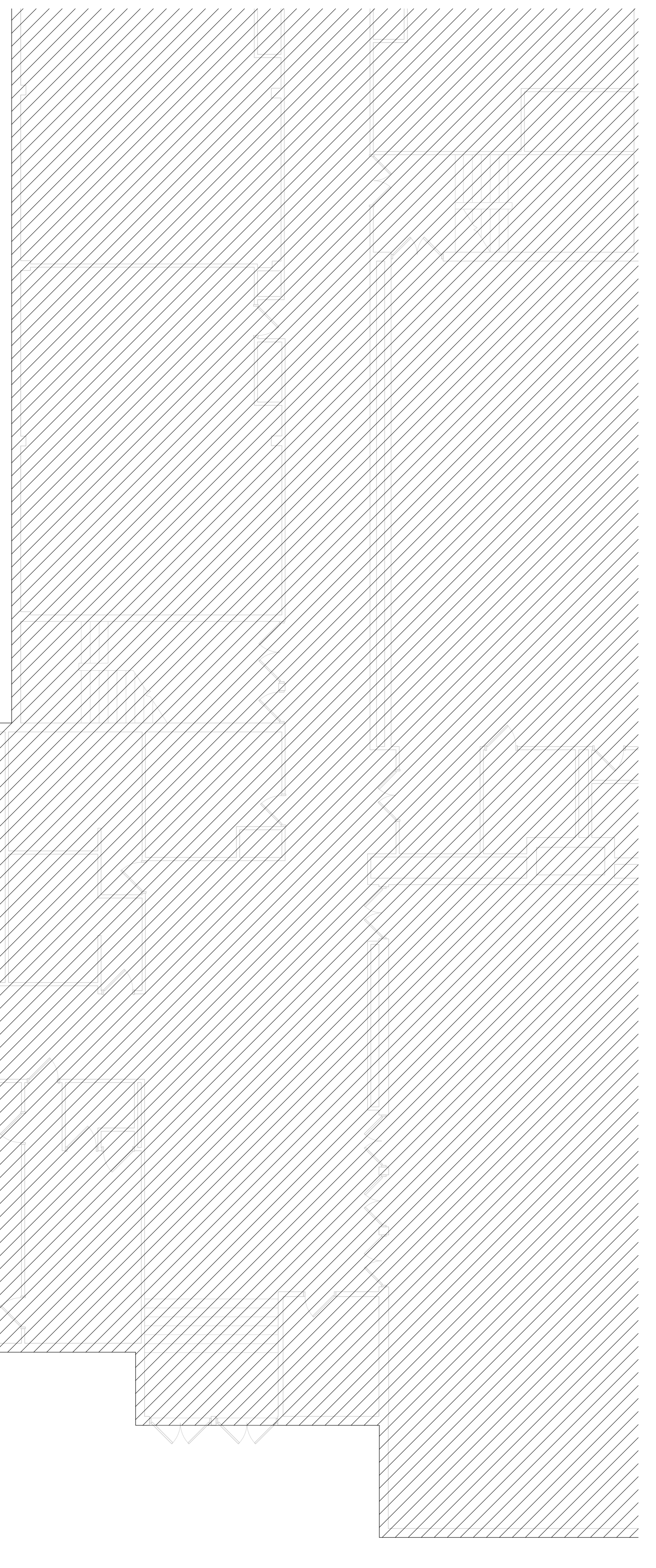
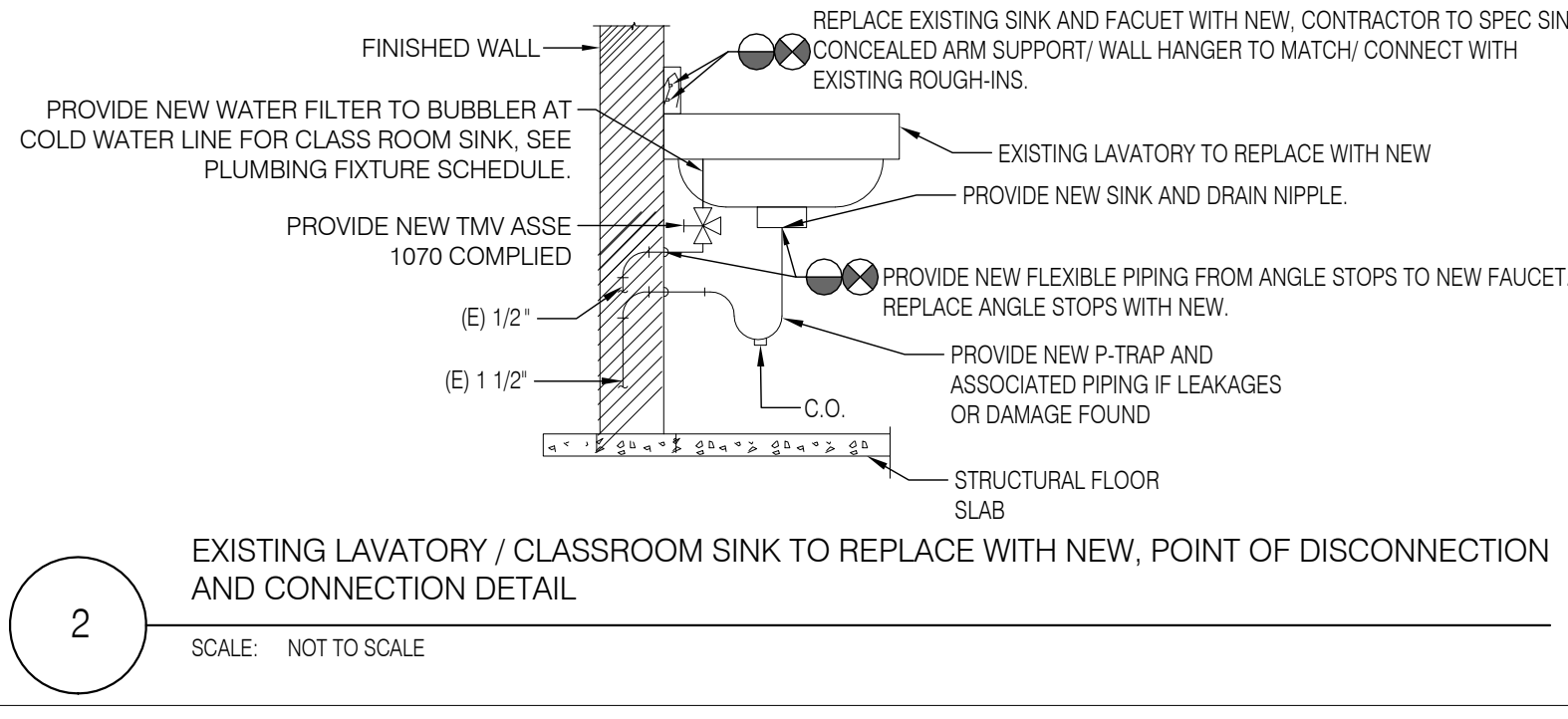
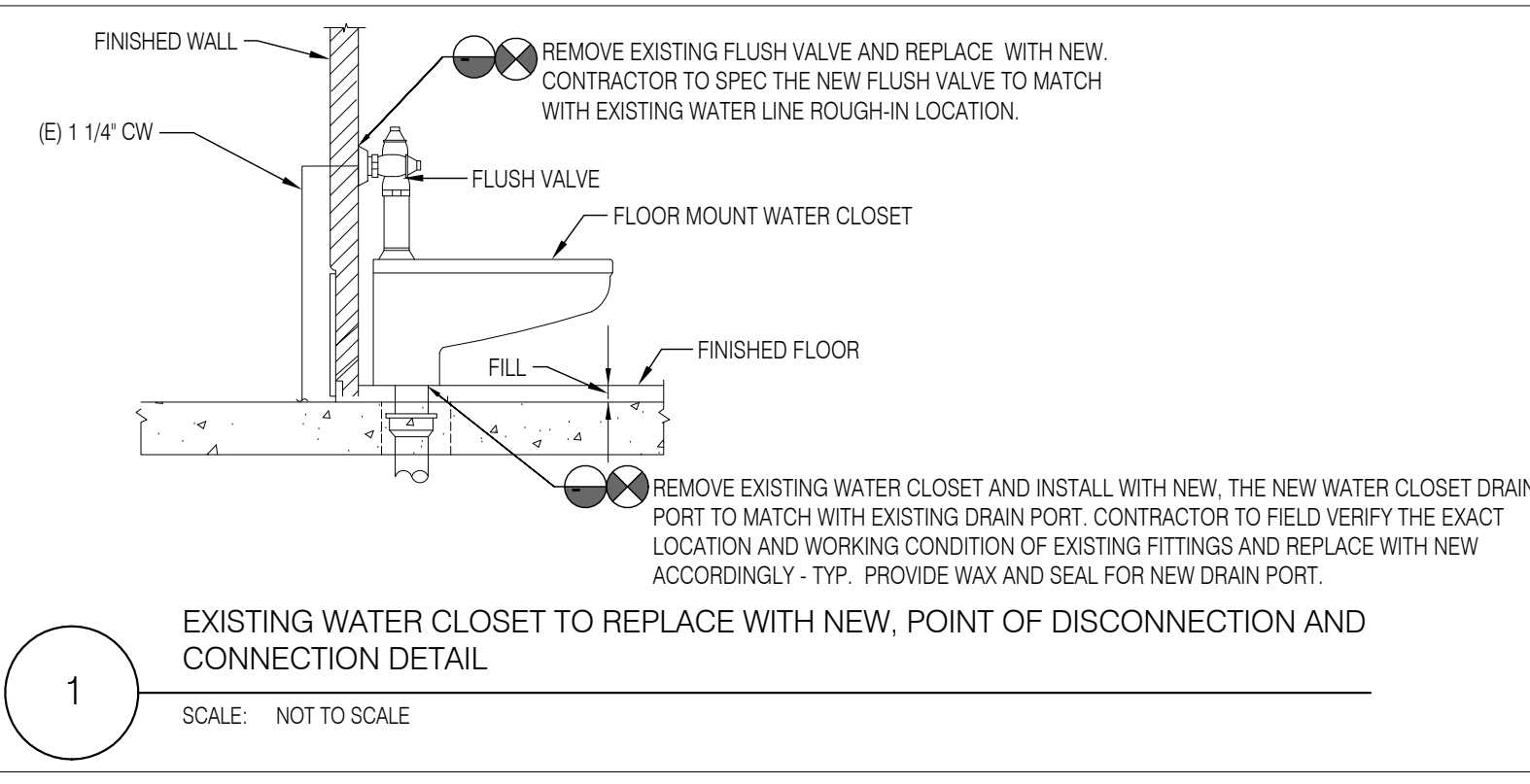


**2 PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT B**  
1/8" = 1'-0"  
0 4' 8' 16'

**1 PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT A**  
1/8" = 1'-0"  
0 4' 8' 16'

- SHEET KEY NOTES**
- EXISTING WATER CLOSET AND FLUSH VALVE TO BE REPLACED WITH NEW WATER CLOSET PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE WATER CLOSET. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING FLOOR MOUNT SPECIFICATIONS AND CARRIAGE. THE EXISTING WATER, DRAIN AND VENT PIPE TO REMAIN, THE NEW FIXTURE ROUGH-INS TO CONNECT TO EXISTING ROUGH-INS. CONTRACTOR TO TRIM/ADD/REPAIR/REPLACE EXISTING DRAIN AND VENT PIPING TO MATCH NEW FIXTURE AND FIXTURE ROUGH-INS AND CONNECT NEW WATER, DRAIN AND VENT PIPING BACK WATER CLOSET. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS IN EXISTING PIPING.
  - EXISTING LAVATORY AND FAUCET TO BE REPLACED WITH NEW PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE LAVATORY. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING WALL MOUNT SPECIFICATIONS AND CARRIAGE. THE EXISTING DRAIN AND VENT PIPE TO REMAIN, THE NEW FIXTURE ROUGH-INS TO CONNECT TO EXISTING ROUGH-INS. CONTRACTOR TO TRIM/ADD/REPAIR/REPLACE EXISTING WATER, DRAIN AND VENT PIPING TO MATCH NEW FIXTURE AND FIXTURE ROUGH-INS AND CONNECT NEW WATER DRAIN AND VENT PIPING BACK SINK. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS IN EXISTING PIPING.
  - EXISTING CLASSROOM SINK AND FAUCET TO BE REPLACED WITH NEW PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE SINK. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING WALL MOUNT SPECIFICATIONS AND CARRIAGE. THE EXISTING DRAIN AND VENT PIPE TO REMAIN, THE NEW FIXTURE ROUGH-INS TO CONNECT TO EXISTING ROUGH-INS. CONTRACTOR TO TRIM/ADD/REPAIR/REPLACE EXISTING WATER, DRAIN AND VENT PIPING TO MATCH NEW FIXTURE AND FIXTURE ROUGH-INS AND CONNECT NEW WATER DRAIN AND VENT PIPING BACK SINK. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS IN EXISTING PIPING.
  - EXISTING DRINKING FOUNTAIN TO BE REPLACED WITH NEW PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE DRINKING FOUNTAIN. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING WALL MOUNT SPECIFICATIONS AND CARRIAGE. PROVIDE NEW P-TRAP. THE EXISTING DRAIN AND VENT PIPE TO REMAIN, THE NEW FIXTURE ROUGH-INS TO CONNECT TO EXISTING ROUGH-INS. CONTRACTOR TO TRIM/ADD/REPAIR/REPLACE EXISTING WATER, DRAIN AND VENT PIPING TO MATCH NEW FIXTURE AND FIXTURE ROUGH-INS AND CONNECT NEW WATER DRAIN AND VENT PIPING BACK DRINKING FOUNTAIN. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS IN EXISTING PIPING.

- GENERAL NOTES**
- ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.
  - THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.
  - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
  - CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
  - CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTIONING.
  - ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST.
  - PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES IN THE AREA OF WORK.
  - CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH-INS.



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01/22/2020

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NO.	DATE	REVISION
1	02/27/2020	ADDENDUM #1

SCHOOL & LOCATION  
**ROBERT B. POLLOCK  
ELEMENTARY SCHOOL**

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PA 19152

PROJECT TITLE

DRAWING TITLE  
**ELECTRICAL GROUND  
FLOOR LIGHTING - UNIT A-B**

LOCATION NO.	FILE NO.
DRAWN BY NHS	CHECKED BY DAT
B-039C OF B-040C OF	2018 / 19 2018 / 19

DRAWING NO.  
**E1.1**

**GENERAL SHEET NOTES**

- REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E7.1 FOR DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF LIGHTING FIXTURES AND CONTROL DEVICES.
- AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMSHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

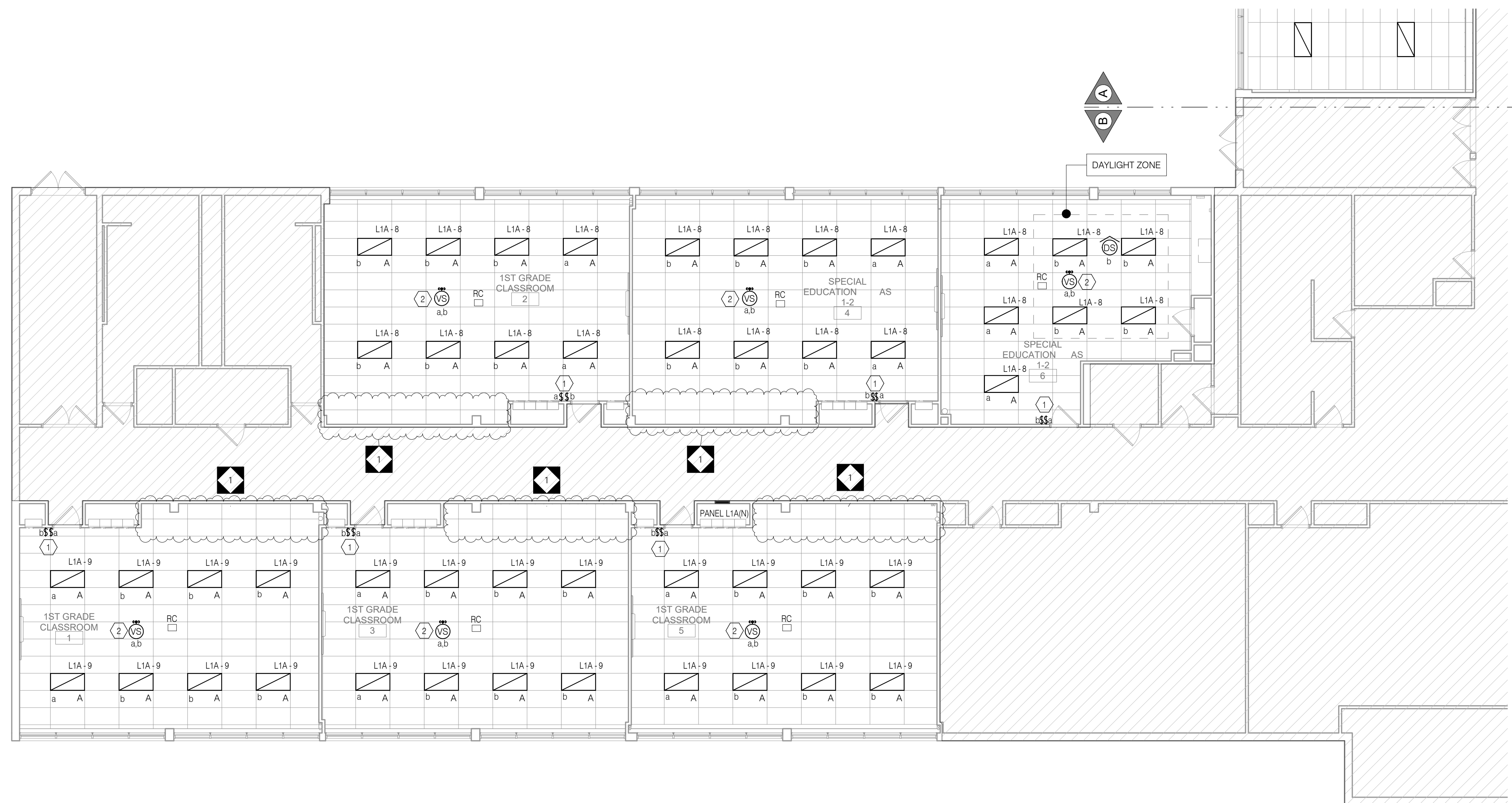
**KEYED SHEET NOTES**

- PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN EXISTING BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. PROVIDE NEW OCCUPANCY SENSOR AND ROOM CONTROLLER AS SHOWN. REWIRE THE LIGHT FIXTURES, SWITCHES AND ROOM CONTROLLER TO ACCOMMODATE NEW LIGHTING FIXTURES LAYOUT AND CONTROLS AS REQUIRED. REFER TO DETAIL #3 ON DWG E7.1 FOR WIRING DIAGRAM.
- CONTRACTOR TO FIELD VERIFY SOURCE OF THE EXISTING LIGHTING CIRCUIT PRIOR TO COMMENCING NEW LIGHTING INSTALLATION. CIRCUIT NUMBER IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW WALL MOUNTED SENSOR AND NEW LIGHTING FIXTURES.

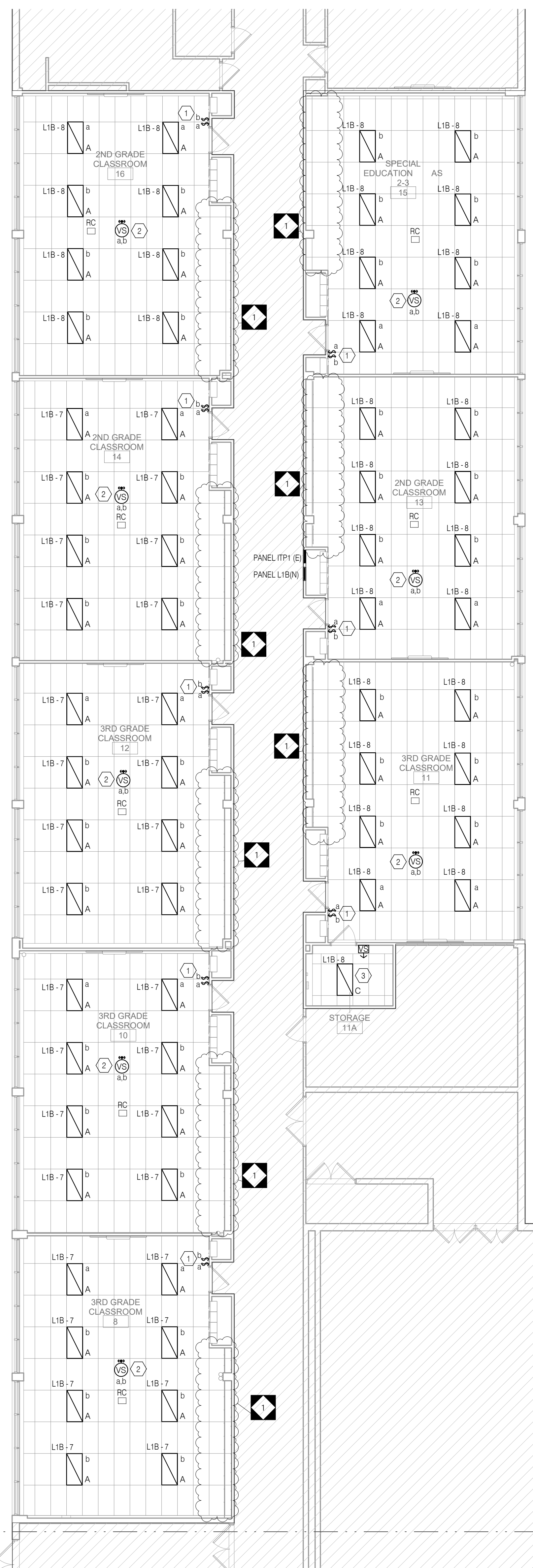
C

B

A



2 ELECTRICAL GROUND FLOOR LIGHTING PLAN - UNIT B  
E1.1 1/8" = 1'-0"



1 ELECTRICAL GROUND FLOOR LIGHTING PLAN - UNIT A  
E1.1 1/8" = 1'-0"

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NO.	DATE	REVISION
1	02/27/2020	ADDENDUM #1

SCHOOL & LOCATION  
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PA 19152

PROJECT TITLE

DRAWING TITLE

**ELECTRICAL GROUND  
FLOOR POWER AND  
TECHNOLOGY PLAN - UNIT**

IA-B ION NO. FILE NO.

DRAWN BY: NBS  
CHECKED BY: DAT

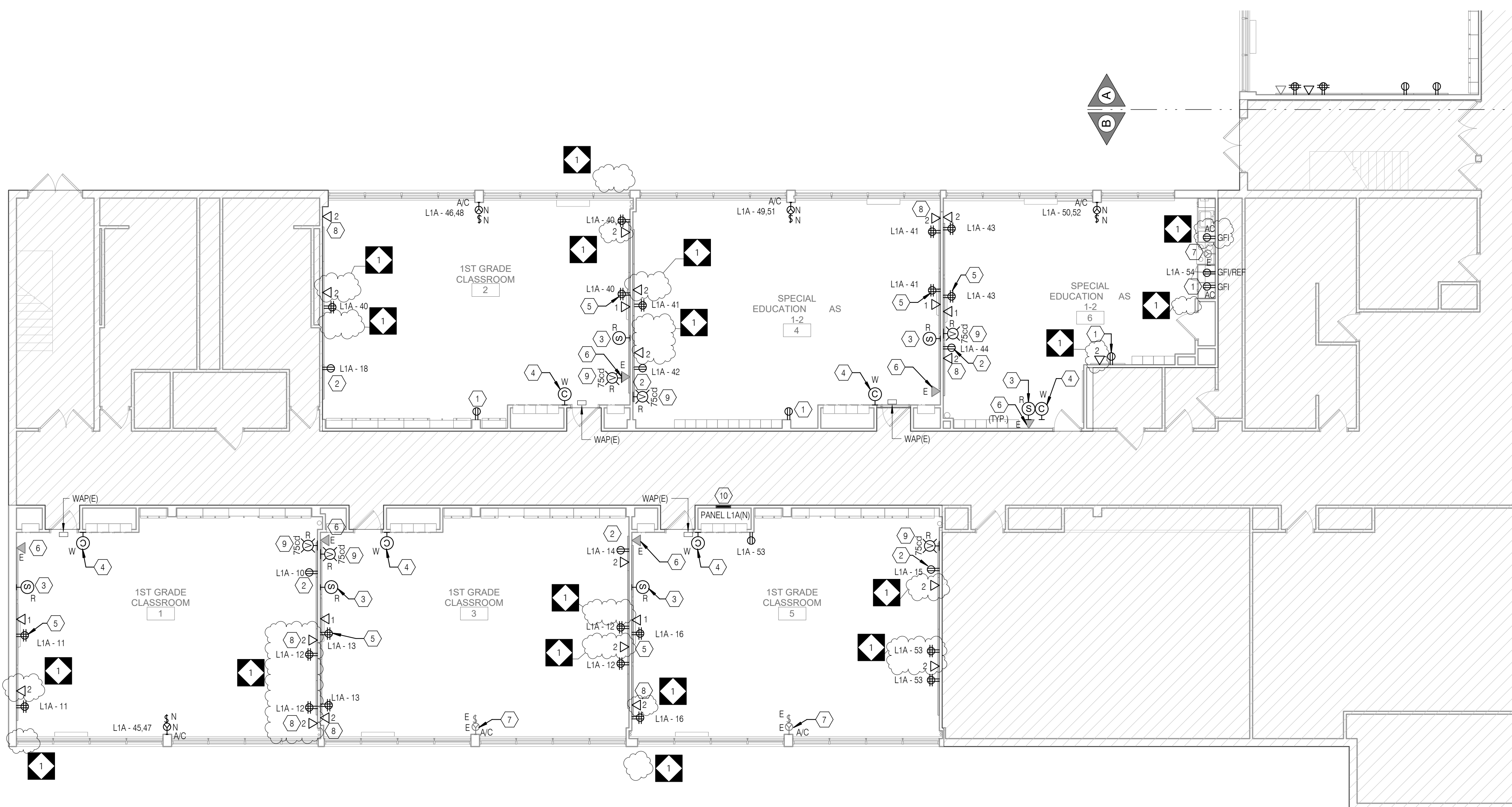
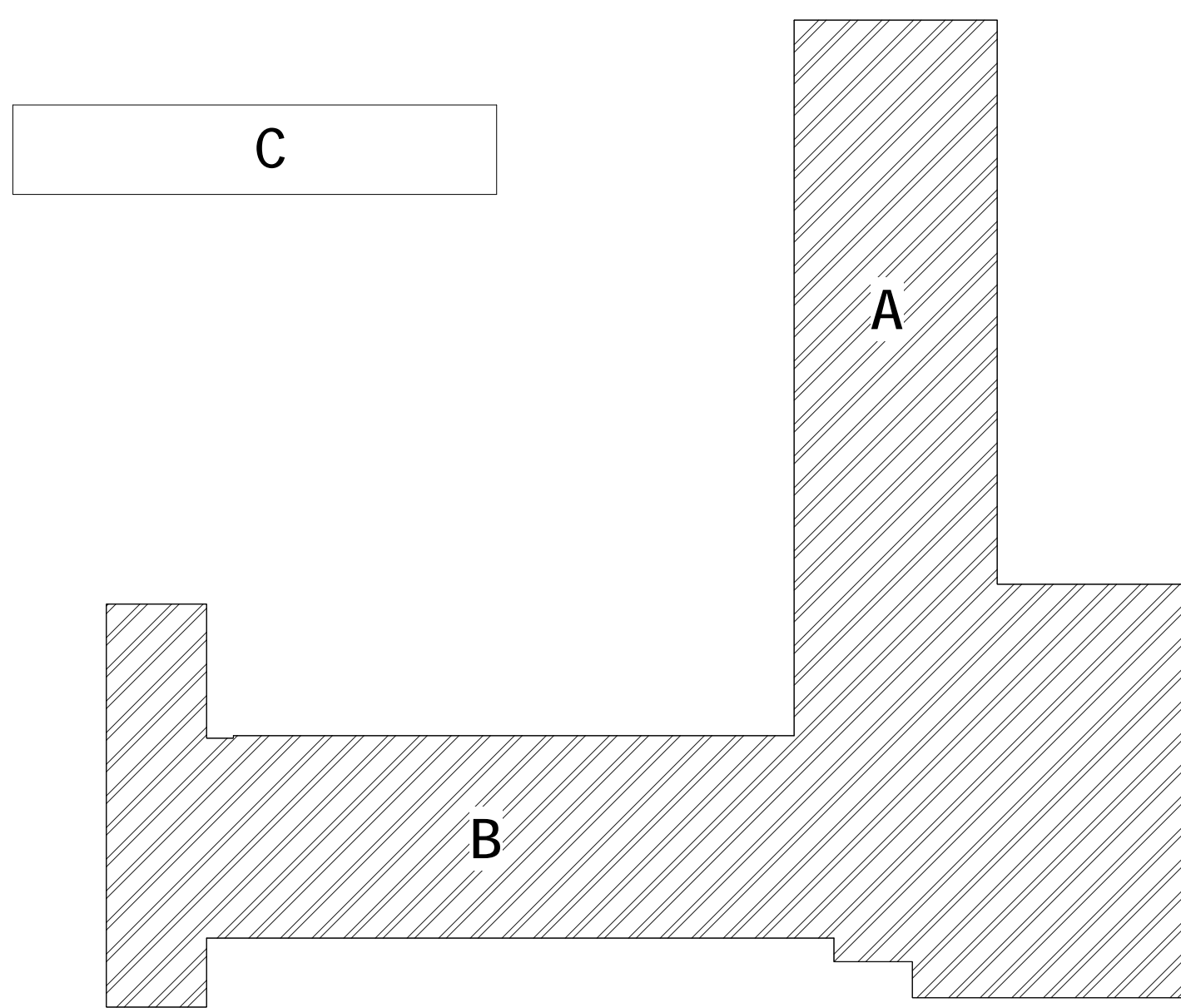
B-039C OF 2018 / 19  
B-040C OF 2018 / 19

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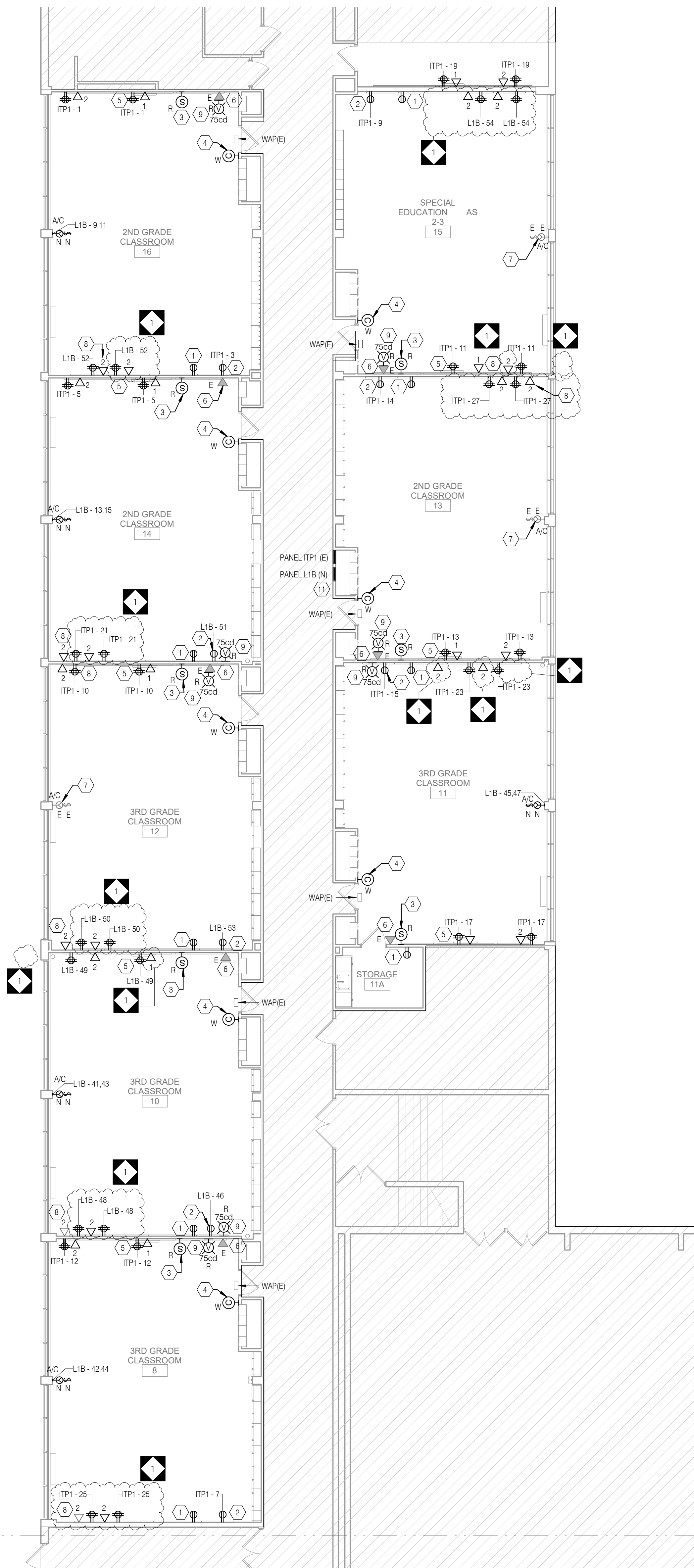
**E2.1**

- GENERAL SHEET NOTES**
- REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
  - REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
  - ALL RECEPTACLES, TELEPHONE OUTLETS WITH ASSOCIATED WIRING, CONDUIT, RACEWAYS, ETC. SHALL BE SURFACE MOUNTED ON EXISTING WALLS AND FLUSH MOUNTED ON NEW WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
  - ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE OF WORK AREAS THAT ARE EXISTING TO REMAIN SHALL BE PROVIDED WITH NEW DEVICES.
  - ALL NEW 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT AS PER NEC 406.12.
  - ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.

- KEYED SHEET NOTES**
- PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.
  - PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.
  - NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
  - PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
  - CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE AND DATA OUTLET SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING H.6 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
  - CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.
  - PROVIDE NEW TAMPER RESISTANT ENCLOSURE FOR EXISTING SPECIALTY RECEPTACLE.
  - PROVIDE NEW CAT 6 CABLE, DATA OUTLETS WITH COVER PLATE AND RECONNECT TO EXISTING PATCH PANEL.
  - FIRE ALARM DEVICE TO BE REINSTALLED AT 96" AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - NEW PANELBOARD 'L1A'. CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD.
  - NEW PANELBOARD 'L1B'. CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD.



2 ELECTRICAL GROUND FLOOR POWER PLAN - A  
E2.1 1/8" = 1'-0"



1 ELECTRICAL GROUND FLOOR POWER PLAN - B  
E2.1 1/8" = 1'-0"

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1	02/27/2020 ADDENDUM #1
NO.	DATE REVISION

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PROJECT TITLE

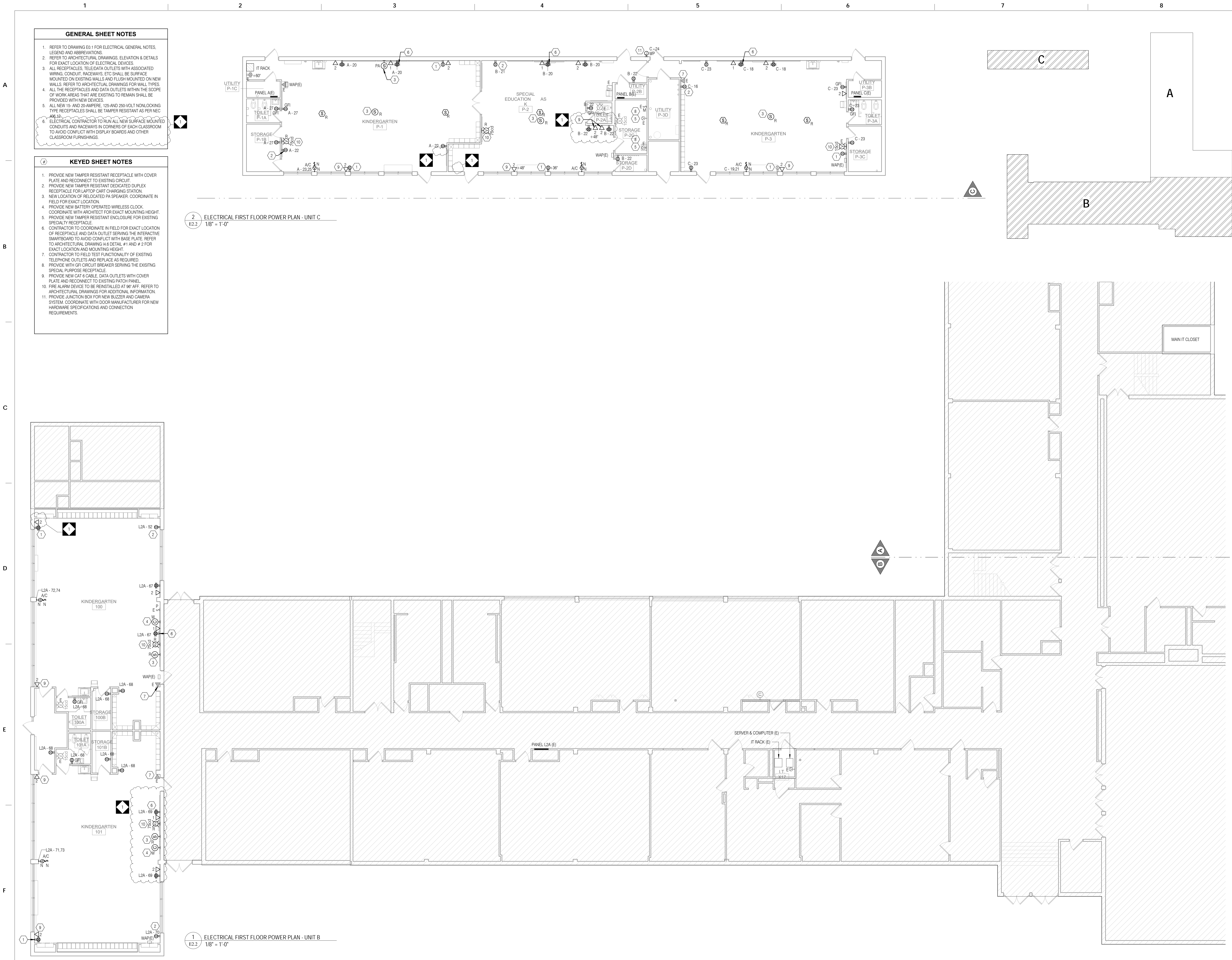
DRAWING TITLE

**ELECTRICAL FIRST FLOOR  
POWER AND TECHNOLOGY  
PLAN - UNIT B-C**

LOCATION NO.	FILE NO.
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NHS	DAT
B-039C	OF 2018 / 19
B-040C	OF 2018 / 19

DRAWING NO.

**E2.2**



**2** ELECTRICAL FIRST FLOOR POWER PLAN - UNIT C  
E2.2 1/8" = 1'-0"

**1** ELECTRICAL FIRST FLOOR POWER PLAN - UNIT B  
E2.2 1/8" = 1'-0"

- GENERAL SHEET NOTES**
- REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
  - REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
  - ALL RECEPTACLES, TELEPHONE OUTLETS WITH ASSOCIATED WIRING, CONDUIT, RACEWAYS, ETC SHALL BE SURFACE MOUNTED ON EXISTING WALLS AND FLUSH MOUNTED ON NEW WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES. ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE OF WORK AREAS THAT ARE EXISTING WITHIN SHALL BE PROVIDED WITH NEW DEVICES.
  - ALL NEW 15- AND 20-AMPERE, 125- AND 250-VOLT NON-LOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT AS PER NEC 400.12.
  - ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.

- KEYED SHEET NOTES**
- PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.
  - PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.
  - NEW LOCATION OF RELOCATED PA SPEAKER, COORDINATE IN FIELD FOR EXACT LOCATION.
  - PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
  - PROVIDE NEW TAMPER RESISTANT ENCLOSURE FOR EXISTING SPECIALTY RECEPTACLE.
  - CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE AND DATA OUTLET SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING 14.6 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
  - CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED.
  - PROVIDE WITH GFI CIRCUIT BREAKER SERVING THE EXISTING SPECIAL PURPOSE RECEPTACLE.
  - PROVIDE NEW CAT 6 CABLE, DATA OUTLETS WITH COVER PLATE AND RECONNECT TO EXISTING PATCH PANEL.
  - FIRE ALARM DEVICE TO BE REINSTALLED AT 96" AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - PROVIDE JUNCTION BOX FOR NEW BUZZER AND CAMERA SYSTEM. COORDINATE WITH DOOR MANUFACTURER FOR NEW HARDWARE SPECIFICATIONS AND CONNECTION REQUIREMENTS.



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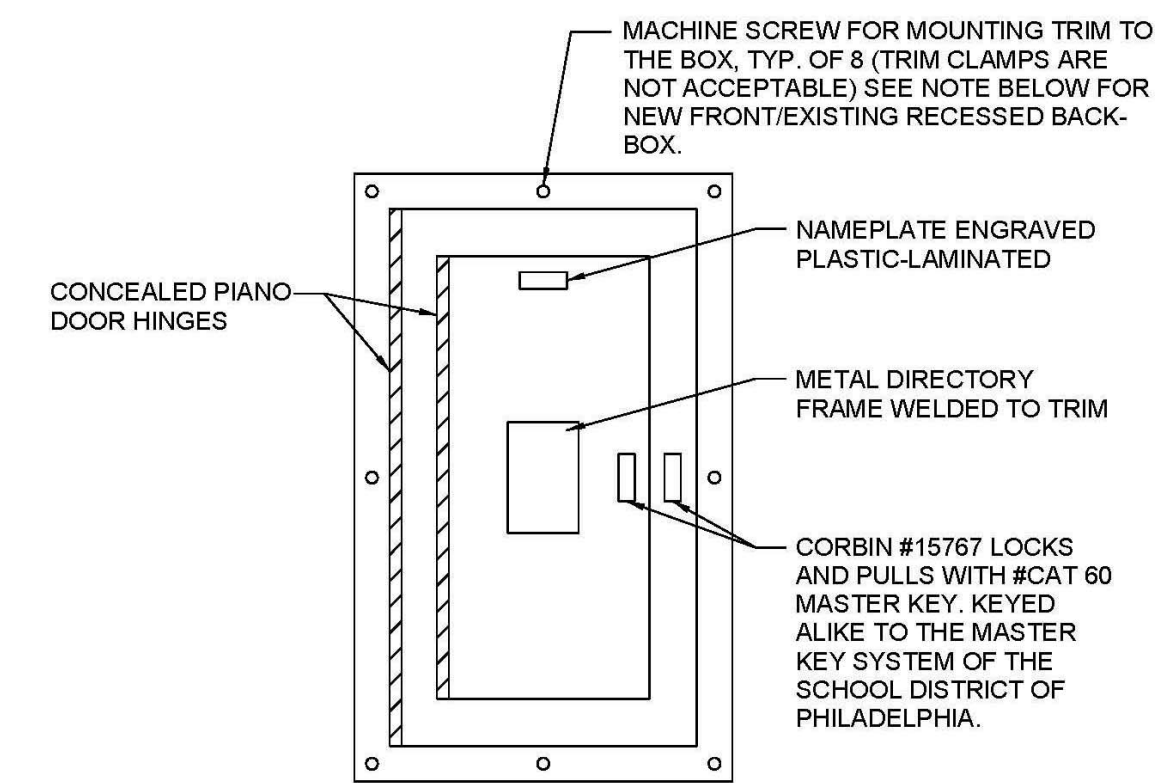
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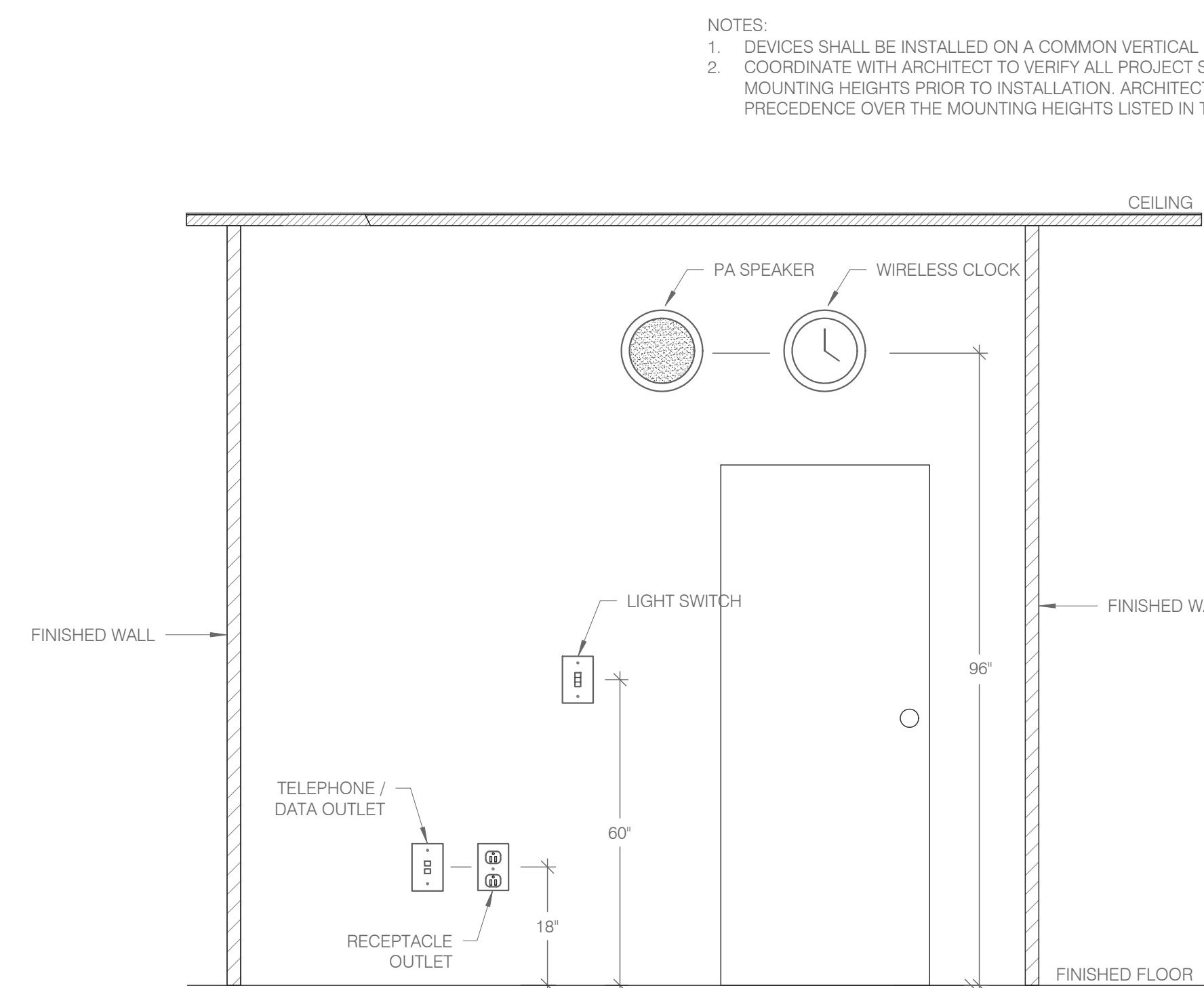
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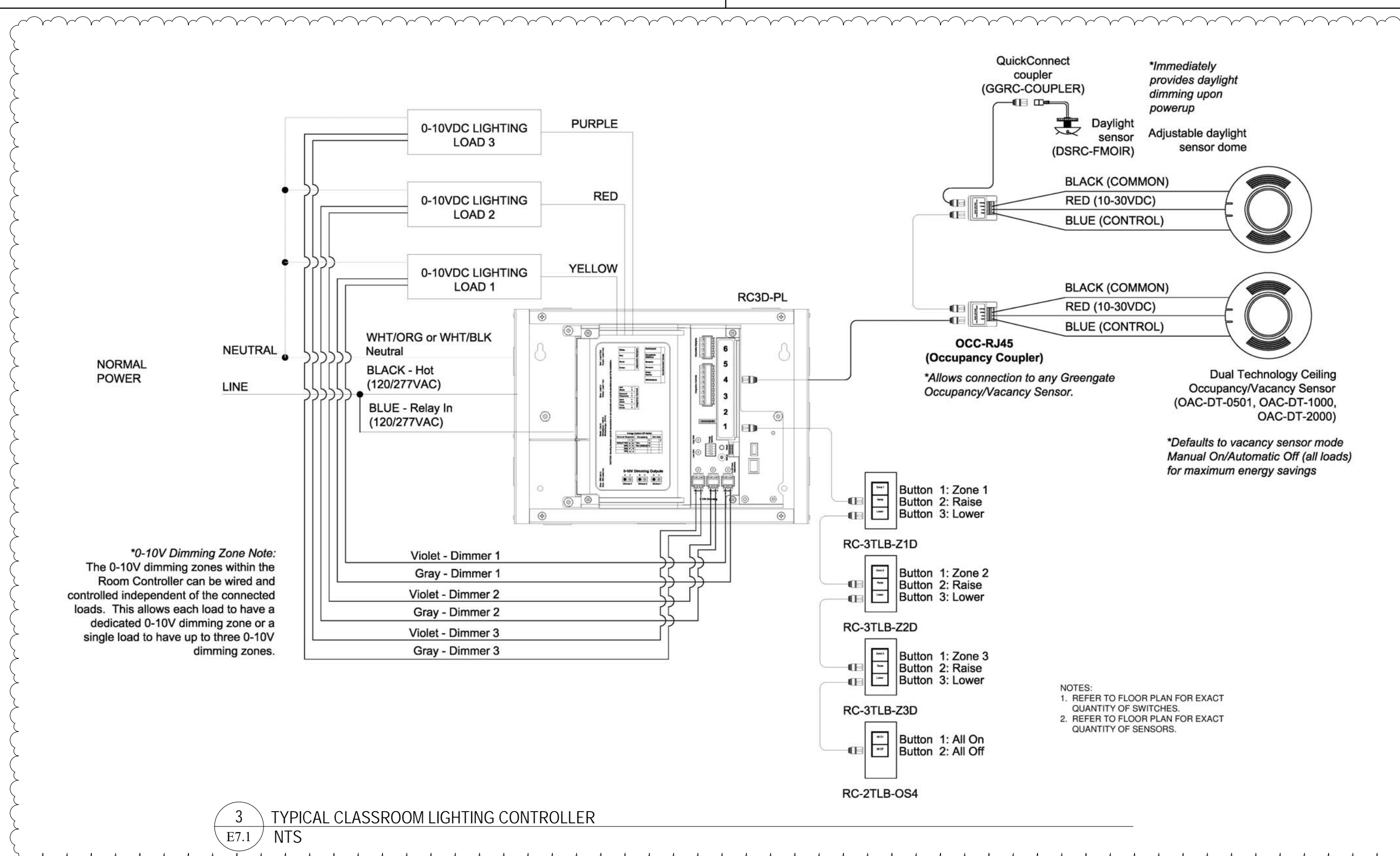
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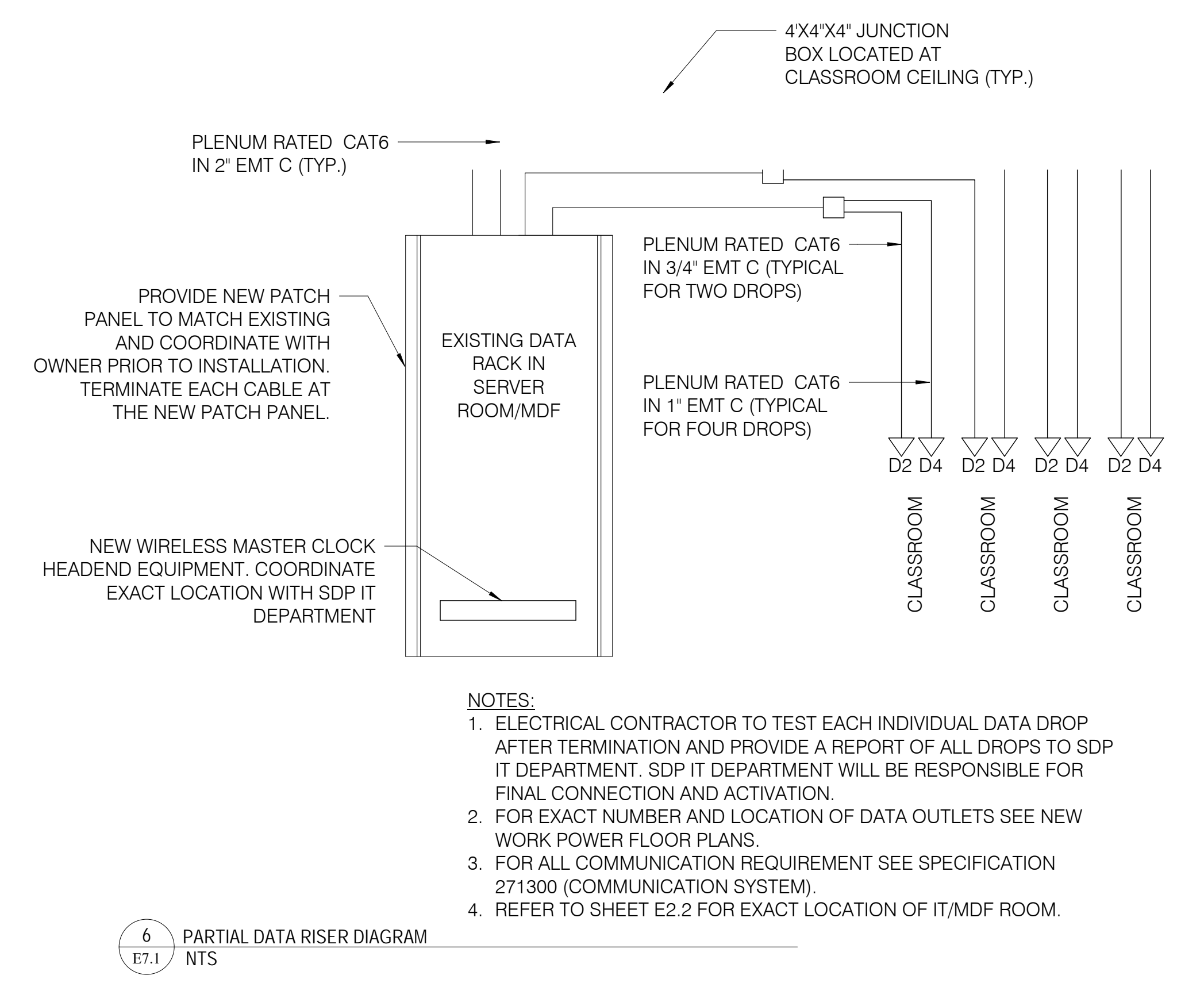
4 PANELBOARD FRONT STANDARD  
E7.1 NTS



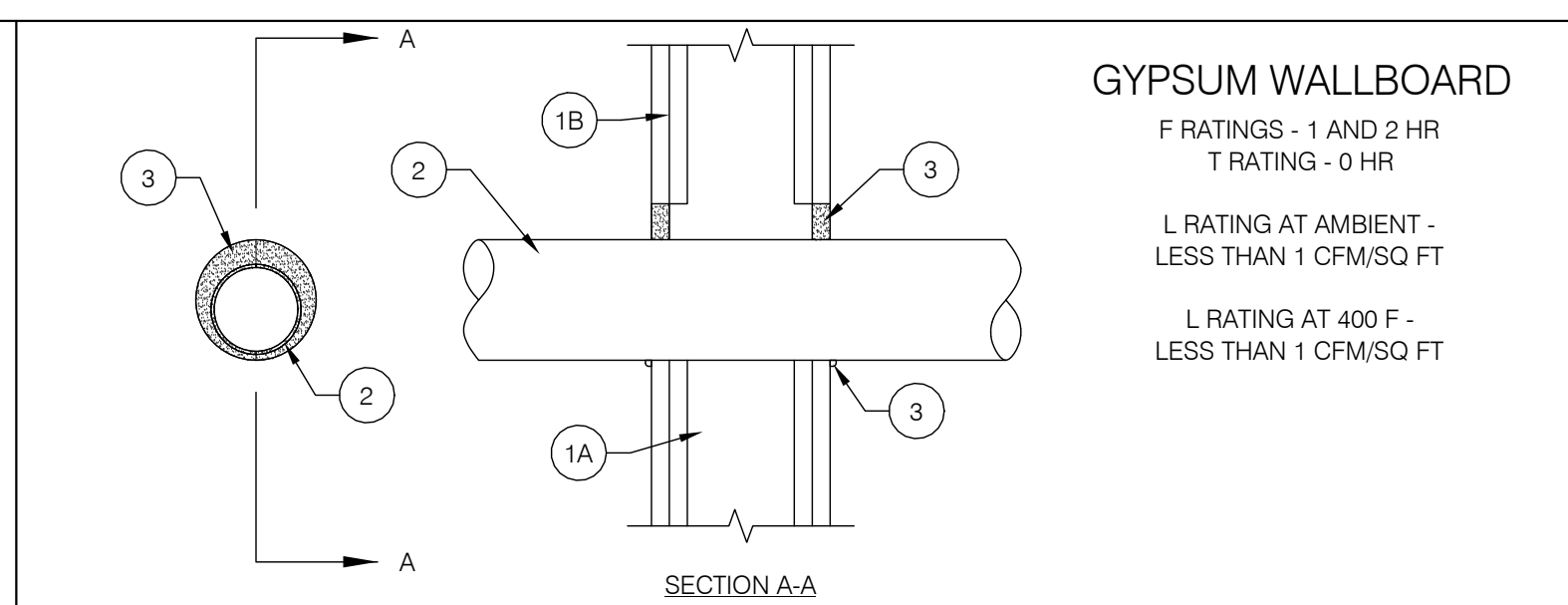
2 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL  
E7.1 NTS



3 TYPICAL CLASSROOM LIGHTING CONTROLLER  
E7.1 NTS



6 PARTIAL DATA RISER DIAGRAM  
E7.1 NTS



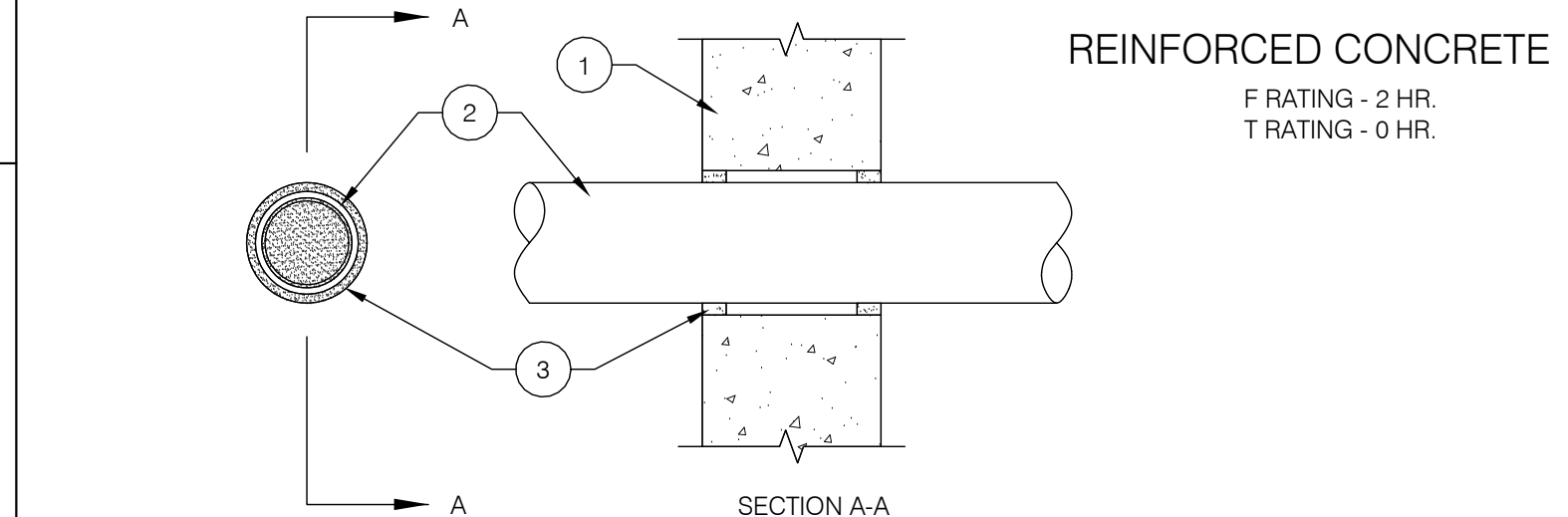
**GYPSUM WALLBOARD**  
F RATINGS - 1 AND 2 HR  
T RATING - 0 HR  
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT  
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL US90 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:  
1.1. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.  
1.2. GYPSUM BOARD\* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IN WOOD STUD WALLS IS 8 IN. MAX DIAM OF OPENING IN STEEL STUD WALLS IS 14 IN. THE HOURLY F RATING OF THE FIRE STOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRE STOP SYSTEM. THE SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE A MIN 0 IN. (POINT CONTACT) TO A MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:  
2.1. STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER STEEL PIPE).  
2.2. IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.  
2.3. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT.  
2.4. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
2.5. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL VOID OR CAVITY MATERIAL\* - CAULK - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 3/8 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT POINT CONTACT LOCATION AT THE PENETRANT/GYPSUM BOARD INTERFACE ON BOTH SIDES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2018. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



**REINFORCED CONCRETE**  
F RATING - 2 HR  
T RATING - 0 HR

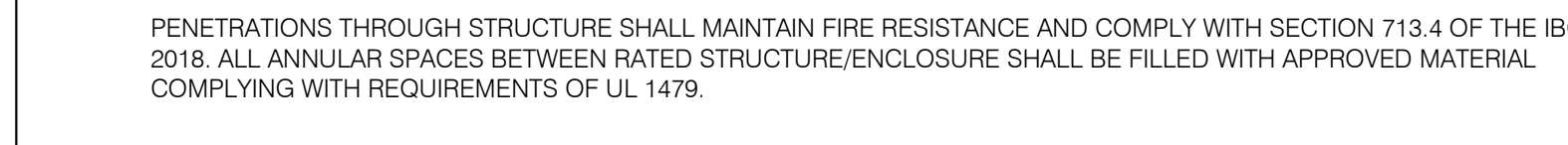
1. WALL ASSEMBLY - MIN 8 IN. (152 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING IS 25 IN. (635 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR THE NAMES OF MANUFACTURERS.

2. THROUGH PENETRANT - ONE METALLIC PIPE, TUBING OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE STOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, TUBING OR CONDUITS AND PERIPHERY OF OPENING IS DEPENDENT UPON THE TYPE AND MAX DIAM OF THE THROUGH PENETRANT AS TABULATED BELOW. PIPE, TUBING OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, TUBING OR CONDUITS MAY BE USED:  
2.1. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
2.2. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.  
2.3. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
2.4. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.  
2.5. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. (152 MM) DIAM GALV STEEL CONDUIT OR NOM 1 IN. DIAM FLEXIBLE STEEL CONDUIT.

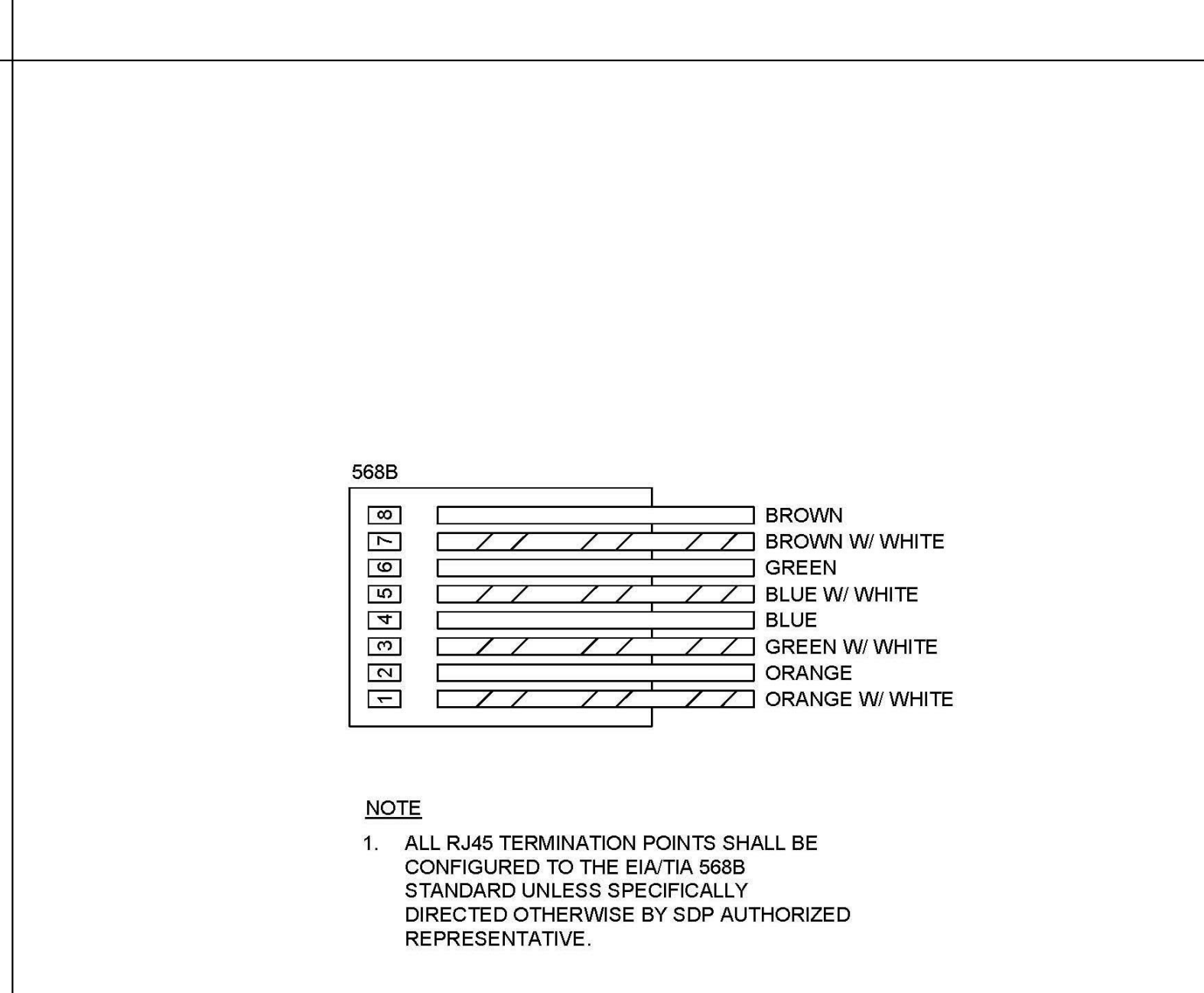
TYPE OF THROUGH PENETRANT	MAX DIAM OF THROUGH PENETRANT, IN. (MM)	MIN & MAX ANNULAR SPACE, IN. (MM)
STEEL OR IRON PIPE	4 (102)	0, 1-1/2 (38)
STEEL TUBING OR CONDUIT	4 (102)	0, 1-1/2 (38)
STEEL CONDUIT	6 (152)	1/8 (3), 1/2 (13)
STEEL OR IRON PIPE	24 (610)	1/8 (3), 1/2 (13)
COPPER TUBING OR PIPE	6 (152)	1/8 (3), 1/2 (13)

3. FILL VOID OR CAVITY MATERIAL\* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANT AND CONCRETE. A MIN 3/8 IN. (10 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2018. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



1 THROUGH-PENETRANT FIRE STOP DETAIL  
E7.1 NTS



5 RJ45 TERMINATION DETAIL  
E7.1 NTS

**100% DESIGN SUBMISSION**  
01/22/2020

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1	02/27/2020	ADDENDUM #1

**SCHOOL & LOCATION**  
**ROBERT B. POLLOCK**  
**ELEMENTARY SCHOOL**

2875 WELSH ROAD, PHILADELPHIA  
PA 19152

PROJECT TITLE

DRAWING TITLE

**ELECTRICAL DETAILS**

LOCATION NO.	FILE NO.
DRAWN BY NHS	CHECKED BY DAT
B-039C OF 2018 / 19	B-040C OF 2018 / 19

DRAWING NO.  
**E7.1**