

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

TELEPHONE: (215) 400-4730

Addendum No. 001

**Subject: 2020 Classroom Modernizations
SDP Contract Numbers: B-016 C of 19/20 & B-018 C of 19/20**

**Location: John B. Kelly School
5116 Pulaski Ave, Philadelphia PA 19144**

This Addendum, dated March 6, 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.

1. ADD THE ATTACHED LEAD SAFE CERTIFICATION ASSESSMENT REPORT (SCOPE OF WORK DETAIL) AND FLOOR PLAN LAYOUTS TO PART B- TECHNICAL SPECIFICATIONS FOR PAINT AND PLASTER REPAIRS AND ROOM LAYOUT DRAWINGS

2 REVISIONS TO SPECIFICATIONS

A. 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.

B. TECHNICAL 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].”

3. DRAWING REVISIONS

A. COVER SHEETS

DRAWING CS.1 – COVER SHEET

1. ADD deed address to read “5116-60 PULASKI AVE, PHILADELPHIA, PA 19144-4022.”

DRAWING CS.2 – GENERAL INFORMATION

1. REVISE Gypsum Wall Board Location Schedule to read at Cementitious Backer Unit “AT WALLS SCHEDULED TO RECEIVE CERAMIC TILE.”

B. ARCHITECTURAL DRAWINGS

DRAWING D1.2 – FIRST FLOOR DEMOLITION PLAN – UNIT B

1. REVISED Kindergarten Classroom No. 1 existing drinking fountain to remain.

DRAWING D1.3 – FIRST FLOOR DEMOLITION PLAN – UNIT C

1. REVISED Kindergarten Classroom No. 4 existing drinking fountain to remain.

DRAWING A1.3 – FIRST FLOOR PLAN – UNIT B

1. REVISED Kindergarten Classroom No. 1 existing drinking fountain to remain.

DRAWING A1.4 – FIRST FLOOR PLAN – UNIT C

1. REVISED Kindergarten Classroom No. 4 existing drinking fountain to remain.

DRAWING A1.5 – OVERALL SECOND FLOOR PLAN

1. REVISED section tag between room 208 and 207 to read 2/A1.2

DRAWING A2.2 – FIRST FLOOR REFLECTED CEILING PLAN – UNIT B

2. REVISE rooms 1A, 2A, and 3A toilet room lighting to show 2'x4' fixture in lieu of 4'-0" linear fixture graphically.

DRAWING A2.3 – FIRST FLOOR REFLECTED CEILING PLAN – UNIT C

1. REVISE rooms 4A, 5A, and 6A toilet room lighting to show 2'x4' fixture in lieu of 4'-0" linear fixture graphically.

DRAWING A2.4 – SECOND FLOOR REFLECTED CEILING PLAN

1. REVISE rooms 203A, 206A, 211A and 214A storage room lighting to show 2'x4' fixture in lieu of 4'-0" linear fixture graphically.

DRAWING A6.1 – ROOM FINISH SCHEDULE

1. REVISE Color Scheme Schedule – Color Scheme A to read as: “COLOR SCHEME A – KINDERGARTEN”.
 - a. REVISED item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 51947 BASIL GREEN”
2. 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”
3. REVISE Color Scheme Schedule – Color Scheme C to read as: “COLOR SCHEME C – SECOND GRADE, CLASSROOMS-BLUE & ORANGE”.
 - a. REVISE item no. 3 to read as: “3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6767 AQUARIUM”

- b. REVISE item no. 4 to read as: “4. VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51860 SOFT COOL GRAY”
- c. REVISE item no. 5 to read as: “5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY”
- d. REVISE item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57516 SCREAMIN' PUMPKIN”
- 4. REVISE Color Scheme Schedule – Color Scheme D to read as: “COLOR SCHEME D – THIRD GRADE, CLASSROOMS-BLUE & YELLOW”.
 - a. REVISE item no. 3 to read as: “3. ACCENT PAINT 'B' TEACHING WALL: SHERWIN WILLIAMS, NO. SW6903 CHEERFUL”
 - b. REVISE item no. 5 to read as: “5. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 57517 BODACIOUS BLUE”
- 5. REVISE item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 59230 VICTORIA BLUE”

C. INTERIOR DRAWINGS

DRAWING I4.3 – LARGE SCALE LAYOUTS – FIRST GRADE

- 1. REVISE detail 2/I4.3 FIRST GRADE – ROOM 203 – Revise “Tack Board w/ Aluminum Frame” from 708 to 709. Revise “Marker Board w/ Aluminum Frame” from 700 to 701.
- 2. REVISE detail 3/I4.3 FIRST GRADE – ROOM 205 – Revise “Tack Board w/ Aluminum Frame” from 707 to 708, and ADD “Tack Board w/ Aluminum Frame” 709 on either side.

DRAWING I4.4 – LARGE SCALE LAYOUTS - SECOND GRADE

- 1. REVISE detail 1/I4.4 SECOND GRADE – ROOM 206 – Revise “Tack Board w/ Aluminum Frame” from 708 to 709. Revise “Marker Board w/ Aluminum Frame” from 700 to 701.

DRAWING I4.5 – LARGE SCALE LAYOUTS - THIRD GRADE

- 2. REVISE detail 3/I4.5 THIRD GRADE – ROOM 214 – Revise “Tack Board w/ Aluminum Frame” from 708 to 709. Revise “Marker Board w/ Aluminum Frame” from 700 to 701.

D. PLUMBING DRAWINGS

DRAWING P0.1 – PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS

- 1. Updated Plumbing fixture schedule.

DRAWING PD1.2 – PLUMBING FIRST FLOOR DEMOLITION PLAN – UNIT B

- 1. Drinking fountain in Kindergarten Classroom -1 will be existing to remain.
- 2. Added Demolition keynote #5.

DRAWING PD1.3 – PLUMBING FIRST FLOOR DEMOLITION PLAN – UNIT C

- 1. Drinking fountain in Kindergarten Classroom -4 will be existing to remain.
- 2. Added Demolition keynote #6.

DRAWING P1.2 – PLUMBING FIRST FLOOR NEW WORK PLAN – UNIT B

- 1. Drinking fountain in Kindergarten Classroom -1 will be existing to remain.
- 2. Added sheet keynote #5.

DRAWING P1.3 – PLUMBING FIRST FLOOR NEW WORK PLAN – UNIT C

- 1. Drinking fountain in Kindergarten Classroom -4 will be existing to remain.

2. Added sheet keynote #5.

E. 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 FIRST FLOOR DEMOLITION PLAN - UNIT A

1. ADD general note “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

1. ADD general note “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”
2. ADD keynote #11 to “DISCONNECT AND REMOVE EXISTING MOTOR RATED SWITCH SERVING EXHAUST FAN WITH COVER PLATE, EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION” to Toilet Rooms 1A, 2A, and 3A as indicated on the drawings.

DRAWING ED1-3 - ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT C

1. ADD general note “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”
2. ADD keynote #12 to “DISCONNECT AND REMOVE EXISTING MOTOR RATED SWITCH SERVING EXHAUST FAN WITH COVER PLATE, EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION” to Toilet Rooms 4A, 5A and 6A as indicated on the drawings.

DRAWING ED1-4 - ELECTRICAL SECOND FLOOR DEMOLITION PLAN - UNIT C

1. ADD general note “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”

DRAWING E1-1 - ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT A

1. REVISE keyed sheet note #3 to read “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 SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURE/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.”

DRAWING E1-2 - ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT B

1. REVISE type B light fixture in toilet 1A to type F light fixture.
2. REVISE type B light fixture in toilet 2A to type F light fixture.
3. REVISE type B light fixture in toilet 3A to type F light fixture.
4. REVISE type B light fixture in toilet 4A to type F light fixture.
5. REVISE keyed sheet note #3 to read “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 SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURE/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.”

6. ADD keyed sheet note #4 to read "PROVIDE NEW MOTOR RATED SWITCH FOR EXHAUST FAN WITH COVER PLATE AND RECONNECT EXISTING CIRCUIT."

DRAWING E1-3 - ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT C

1. REVISE type B light fixture in toilet 4a to type F light fixture.
2. REVISE type B light fixture in toilet 5a to type F light fixture.
3. REVISE type B light fixture in toilet 6a to type F light fixture.
4. REVISE keyed sheet note #3 to read "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 SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURE/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE."
5. ADD keyed sheet note #4 to read "PROVIDE NEW MOTOR RATED SWITCH FOR EXHAUST FAN WITH COVER PLATE AND RECONNECT EXISTING CIRCUIT."

DRAWING E1-4 - ELECTRICAL SECOND FLOOR LIGHTING PLAN

1. REVISE type B light fixture in storage 203a to type F light fixture.
2. REVISE type B light fixture in storage 206a to type F light fixture.
3. REVISE type B light fixture in storage 211a to type F light fixture..
4. REVISE type B light fixture in storage 214a to type F light fixture.
5. REVISE keyed sheet note #3 to read "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 SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURE/S IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE."

E2.1 - ELECTRICAL FIRST FLOOR POWER PLAN - UNIT A

1. ADD general sheet note #6 to read "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."
2. REVISE data outlet locations and scope as indicated on the drawings.

E2.2 - ELECTRICAL FIRST FLOOR POWER PLAN - UNIT B

1. ADD general sheet note #6 to read "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."
2. REVISE data outlet locations and scope as indicated on the drawings.

E2.3 - ELECTRICAL FIRST FLOOR POWER PLAN - UNIT C

1. ADD general sheet note #6 to read "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."
2. REVISE data outlet locations and scope as indicated on the drawings.

E2.4 - ELECTRICAL SECOND FLOOR POWER PLAN

1. ADD general sheet note #6 to read "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."
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.

4. 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: There is no HVAC work in the project. Plumbing will be the responsibility of the GC.

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: The specification has been added as part of this addendum.

4. 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 Part 1: Drawing D1.1, Demolition Note 9A should 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.*"

Answer Part 2: Yes, the refinishing and reinstallation of the unit ventilator cover is the responsibility of the GC.

5. 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 #4, above. Also refer to Specification 105115 Electrostatic Painting for refinishing requirements for metal surfaces.

6. 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.

7. 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.

8. Reference Supplementary Conditions Par. 16 Photographs , Are photos necessary for this type of project ? Please consider deleting from scope of work.(Save \$)

Answer: No; however, digital photographs on CD's or flash drives will be acceptable: and prints and negatives not required.

9. Is asbestos the responsibility of the contractor awarded the project?

Answer: Asbestos is the responsibility of the GC that is awarded the project.

10. Is electrical part of this scope of work?

Answer: The electrical part of the scope is the responsibility of the Electrical Contractor.

11. Is electrical the responsibility of the contractor awarded the project?

Answer: The electrical is the responsibility of the Electrical Contractor that is awarded the electrical contract.

12. It has come to our attention that 3 of the vct color is being discontinued as of [April 30th](#).
Discontinued colors are

Cantaloupe
Pumpkin Orange
Greenery

Will you be revising the finish schedule?

Answer: Yes. Revised Finish Drawing A6.1 attached.

13. Detail I7.1 depicts nosing's at raised floor areas and says "see specs". I am not seeing anything in section 096519 nor do I see any reference in 096513 resilient base and accessories that refers to those nosing's. In addition, Detail I7.5 refers to similar nosing's as metal nosing's. Please advise.

Answer: Nosing to be wood. No Spec has been issued. Style and type to be determined in field.

14. We request the addendum that provides the "Scope of Work Detail" (Lead Safe Certification Assessment Report).

Answer: The Lead Safe Certification Assessment Report is attached to this addendum.

15. Confirm that Unit Price No. 1 and Unit Price No. 2 work is only applicable to Kelly ES 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: Yes; See attached lead Safe Certification Assessment Report (Scope of Work Detail) for available information

ATTACHMENTS

SPECIFICATIONS

SPECIFICATION 262416 PANELBOARDS

DRAWINGS

DRAWING A6.1 ROOM FINISH SCHEDULE

DRAWING I4.3 LARGE SCALE LAYOUTS - FIRST GRADE

DRAWING I4.4 LARGE SCALE LAYOUTS - SECOND GRADE

DRAWING I4.5 LARGE SCALE LAYOUTS - THIRD GRADE

DRAWING P0.1 PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS

DRAWING PD1.2 PLUMBING FIRST FLOOR DEMOLITION PLAN – UNIT B

DRAWING PD1.3 PLUMBING FIRST FLOOR DEMOLITION PLAN – UNIT C

DRAWING P1.2 PLUMBING FIRST FLOOR NEW WORK PLAN – UNIT B

DRAWING P1.3 PLUMBING FIRST FLOOR NEW WORK PLAN – UNIT C

DRAWING E0.1 ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS
DRAWING ED1.2 ELECTRICAL FIRST FLOOR DEMOLITION PLAN – UNIT B
DRAWING ED1.3 ELECTRICAL FIRST FLOOR DEMOLITION PLAN – UNIT C
DRAWING E1.2 ELECTRICAL FIRST FLOOR LIGHTING PLAN – UNIT B
DRAWING E1.3 ELECTRICAL FIRST FLOOR LIGHTING PLAN – UNIT C
DRAWING E1.4 ELECTRICAL SECOND FLOOR LIGHTING PLAN
DRAWING E2.1 ELECTRICAL FIRST FLOOR POWER PLAN – UNIT A
DRAWING E2.2 ELECTRICAL FIRST FLOOR POWER PLAN – UNIT B
DRAWING E2.3 ELECTRICAL FIRST FLOOR POWER PLAN – UNIT C
DRAWING E2.4 ELECTRICAL SECOND FLOOR POWER PLAN
DRAWING E7-1 ELECTRICAL DETAILS

LEAD SAFE CERTIFICATION ASSESSMENT REPORT (SCOPE OF WORK DETAIL)

ROOM LAYOUT DRAWINGS

END OF ADDENDUM #001

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."

- 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.

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

NUMBER	NAME	COLOR SCHEME	FLOOR	BASE	WALLS		CEILING FINISH	REMARKS
					WALL FINISH	WAINSCOT		
						FINISH		
FIRST FLOOR								
1	KINDERGARTEN CLASSROOM	A	VCT/RBR2	VB	PNT		ACT/PNT	R1, R2, R53, R77
1A	TOILET	G	PT	CT	EPX2	CT	7'-0"	ACT R52
1B	STORAGE	A	VCT	VB	PNT			
1C	VESTIBULE	A	VCT	VB	PNT			
1D	STORAGE	A	VCT	VB	PNT			
2	KINDERGARTEN CLASSROOM	A	VCT/RBR2	VB	PNT		ACT/PNT	R1, R2, R53, R77
2A	TOILET	G	PT	CT	EPX2	CT	7'-0"	ACT R52
2B	STORAGE	A	VCT	VB	PNT			
2C	VESTIBULE	A	VCT	VB	PNT			
3	KINDERGARTEN CLASSROOM	A	VCT/RBR2	VB	PNT		ACT/PNT	R1, R2, R53, R77
3A	TOILET	G	PT	CT	EPX2	CT	7'-0"	ACT R52
3B	STORAGE	A	VCT	VB	PNT			
3C	VESTIBULE	A	VCT	VB	PNT			
3D	STORAGE	A	VCT	VB	PNT			
4	KINDERGARTEN CLASSROOM	A	VCT/RBR2	VB	PNT		ACT/PNT	R1, R2, R53, R77
4A	TOILET	G	PT	CT	EPX2	CT	7'-0"	ACT R52
4B	STORAGE	A	VCT	VB	PNT			
4C	VESTIBULE	A	VCT	VB	PNT			
5	KINDERGARTEN CLASSROOM	A	VCT/RBR2	VB	PNT		ACT/PNT	R1, R2, R53, R77
5A	TOILET	G	PT	CT	EPX2	CT	7'-0"	ACT R52
5B	STORAGE	A	VCT	VB	PNT			
5C	VESTIBULE	A	VCT	VB	PNT			
5D	STORAGE	A	VCT	VB	PNT			
6	SPECIAL EDUCATION (AS) CLASSROOM	B	VCT/RBR2	VB	PNT		ACT/PNT	R1, R2, R53, R77
6A	TOILET	G	PT	CT	EPX2	CT	7'-0"	ACT R52
6B	STORAGE	B	VCT	VB	PNT			
6C	VESTIBULE	B	VCT	VB	PNT			
102	SPECIAL EDUCATION (AS 1-3) CLASSROOM	B	VCT	VB	PNT			R53
106	3RD GRADE CLASSROOM	D	VCT	VB	PNT			R53
107	3RD GRADE CLASSROOM	D	VCT	VB	PNT			R53
SECOND FLOOR								
201	1ST GRADE CLASSROOM	B	VCT	VB	PNT		ACT	R53
202	1ST GRADE CLASSROOM	B	VCT	VB	PNT		ACT	R53
203	1ST GRADE CLASSROOM	B	VCT	VB	PNT		ACT/PNT	R53, R77
203A	STORAGE	B	VCT	VB	PNT			
204	1ST GRADE CLASSROOM	B	VCT	VB	PNT		ACT	R53
205	1ST GRADE CLASSROOM	B	VCT	VB	PNT		ACT	R53
206	2ND GRADE CLASSROOM	C	VCT	VB	PNT		ACT/PNT	R53, R77
206A	STORAGE	C	VCT	VB	PNT			
207	3RD GRADE CLASSROOM	D	VCT	VB	PNT		ACT	R53
208	3RD GRADE CLASSROOM	D	VCT	VB	PNT		ACT	R53
210	2ND GRADE CLASSROOM	C	VCT	VB	PNT		ACT	R53
211	2ND GRADE CLASSROOM	C	VCT	VB	PNT		ACT/PNT	R53, R77
211A	STORAGE	C	VCT	VB	PNT			
212	2ND GRADE CLASSROOM	C	VCT	VB	PNT		ACT	R53
213	2ND GRADE CLASSROOM	C	VCT	VB	PNT		ACT	R53
214	3RD GRADE CLASSROOM	D	VCT	VB	PNT		ACT/PNT	R53, R77
214A	STORAGE	D	VCT	VB	PNT		ACT	

COLOR SCHEME SCHEDULE

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: **COLOR TO BE SELECTED BY OWNER.**
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: **COLOR TO BE SELECTED BY OWNER.**
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. 57517 BODACIOUS BLUE
6. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57516 SCREAMIN' PUMPKIN
7. VERTICAL CASEWORK WOOD FINISH: **COLOR TO BE SELECTED BY OWNER.**
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: **COLOR TO BE SELECTED BY OWNER.**
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. CERAMIC WALL TILE, FIELD: DAL TILE, SEMI-GLOSS GLAZED TILE, 0182 SUEDE GRAY
4. CERAMIC WALL TILE, ACCENT '1': DAL TILE, SEMI-GLOSS GLAZED TILE, 0151 TOTALLY TANGERINE
5. CERAMIC 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 & SIDEBACK 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.: **COLOR TO MATCH EXISTING AND FIELD VERIFIED BY ARCHITECT/OWNER.**
7. 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 DEMO/ALTERATION NOTES.
 - F. ALL EXPOSED MECHANICAL, PLUMBING, & 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, METAL LOCKERS SHALL BE PAINTED ADJACENT WALL COLOR.

ROOM FINISH SCHEDULE LEGEND

FLOOR FINISH	
PT	PORCELAIN TILE
RBR	RUBBER
VCT	VINYL COMPOSITION TILE
FLOOR REMARKS	
R1:	T=RBR, R=RBR, L=RBR2, S=N/A
R2:	PROVIDE SLIP-RESISTANT RUBBER FLOORING (RBR2) AT PLATFORMS.
R3-R25:	NOT USED
BASE FINISH	
CT	CERAMIC TILE
VB	VINYL
BASE REMARKS	
R26-R50:	NOT USED
WALL FINISH	
CT	CERAMIC TILE
EPX	EPOXY PAINT
PNT	PANT
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 IT DRAWINGS FOR MATERIAL TRANSITIONS & FLOOR PATTERN PLANS.
7.	ETR = EXISTING TO REMAIN
8.	EXIST = EXISTING
9.	T=TREAD, R=RISER, L=LANDING, S=STRINGER

SEAL:



J. JEFFREY STRAUB
STATE AND LICENSE NO: RA403652

ARCHITECT

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100% DESIGN SUBMISSION 1/22/2020

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1	3/5/2020	ADDENDUM # 3
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

MAILING ADDRESS: 5116 PULASKI AVE, PHILADELPHIA, PA 19144
DEED ADDRESS: 5116-60 PULASKI AVE, PHILADELPHIA, PA 19144-4022

PROJECT TITLE

CLASSROOM MODERNIZATION

DRAWING TITLE

ROOM FINISH SCHEDULE

LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY

B-014C OF 2019 / 20
B-018C OF 2019 / 20

DRAWING NO.

A6.1



ARCHITECT

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100% DESIGN SUBMISSION
1/22/2020

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1	3/5/2020 ADDENDUM # 1
NO.	DATE REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

MAILING ADDRESS: 5116 PULASKI AVE, PHILADELPHIA, PA 19144
DEED ADDRESS: 5116-60 PULASKI AVE, PHILADELPHIA, PA 19144-4022

PROJECT TITLE

CLASSROOM MODERNIZATION

DRAWING TITLE

LARGE SCALE LAYOUTS - FIRST GRADE

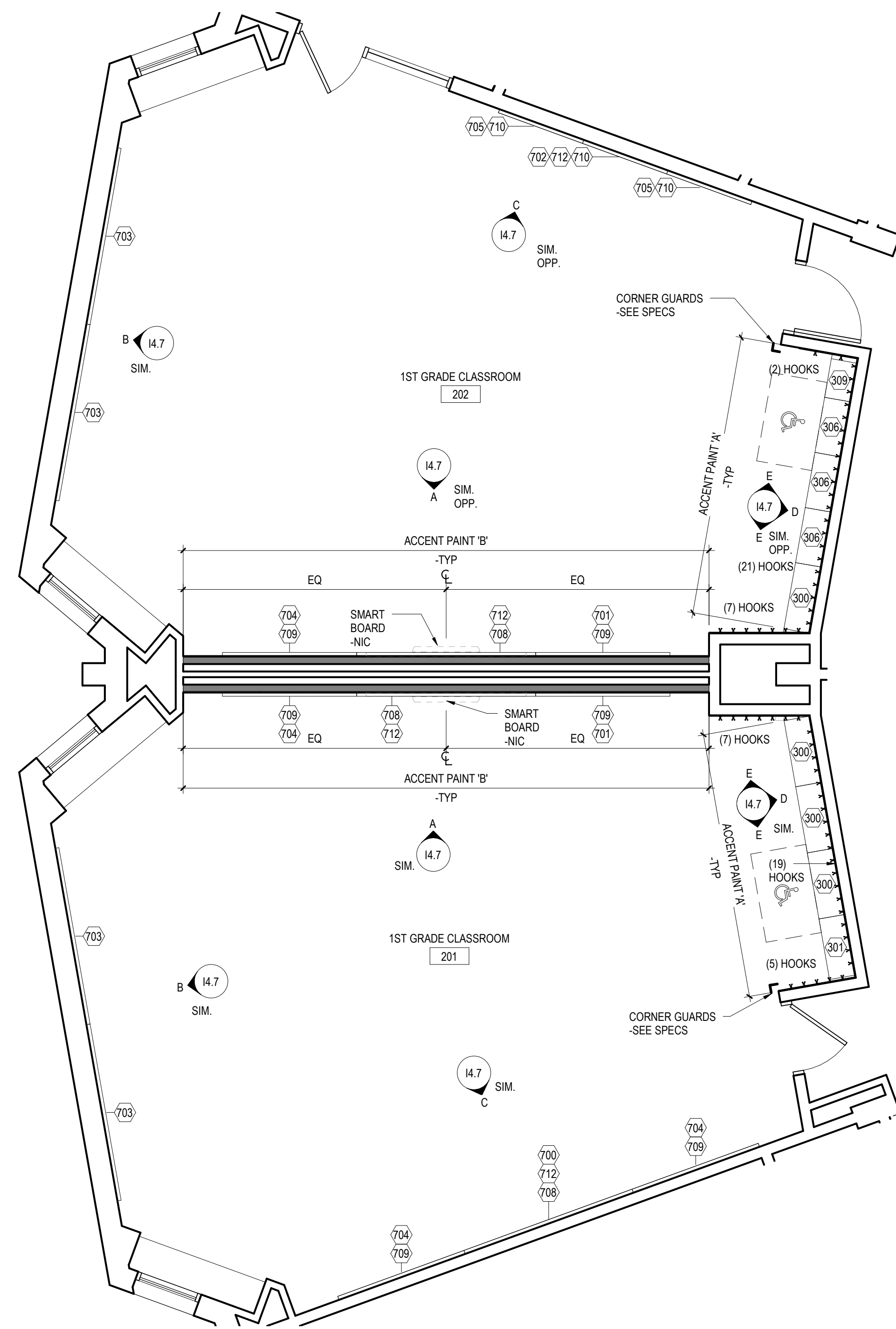
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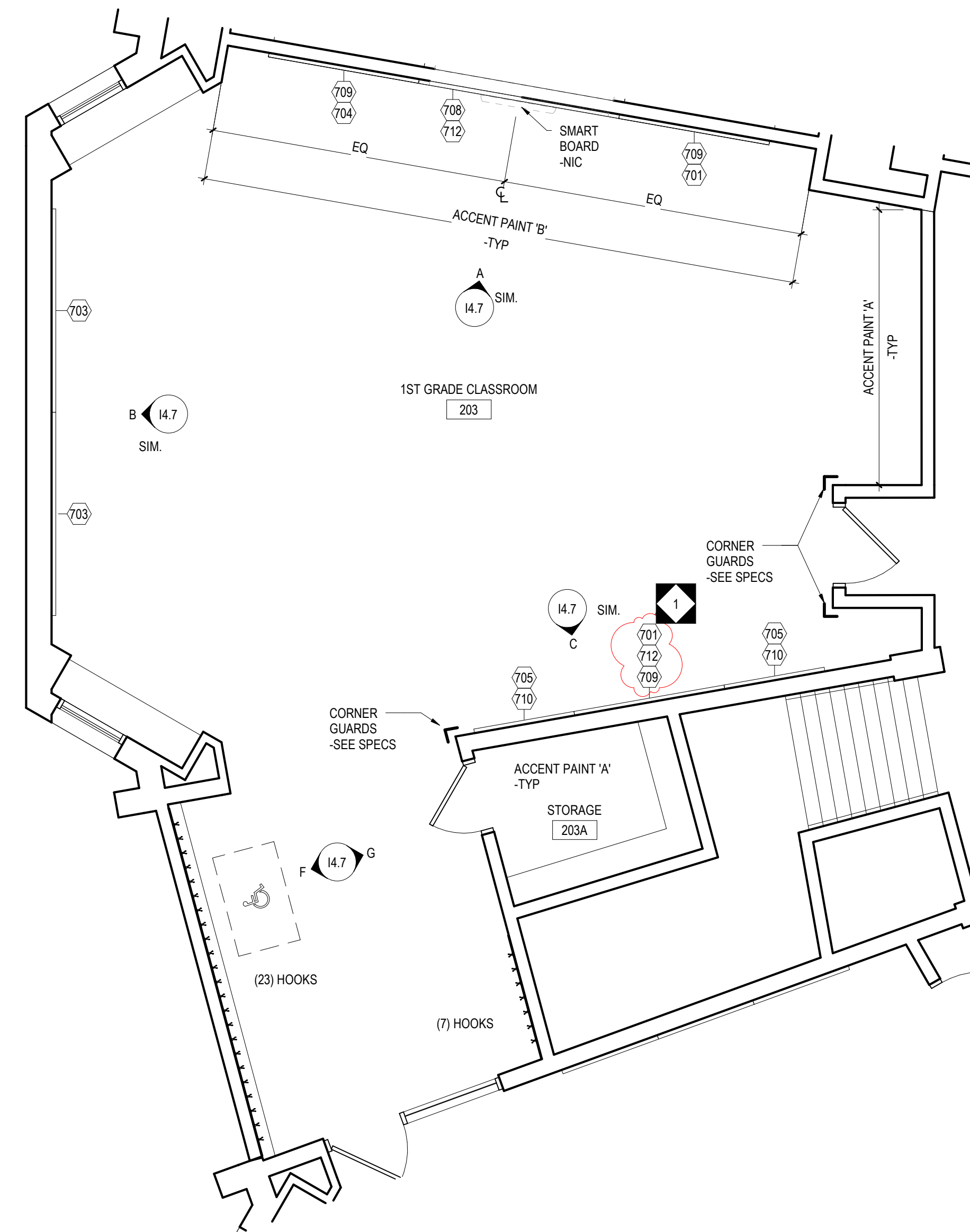
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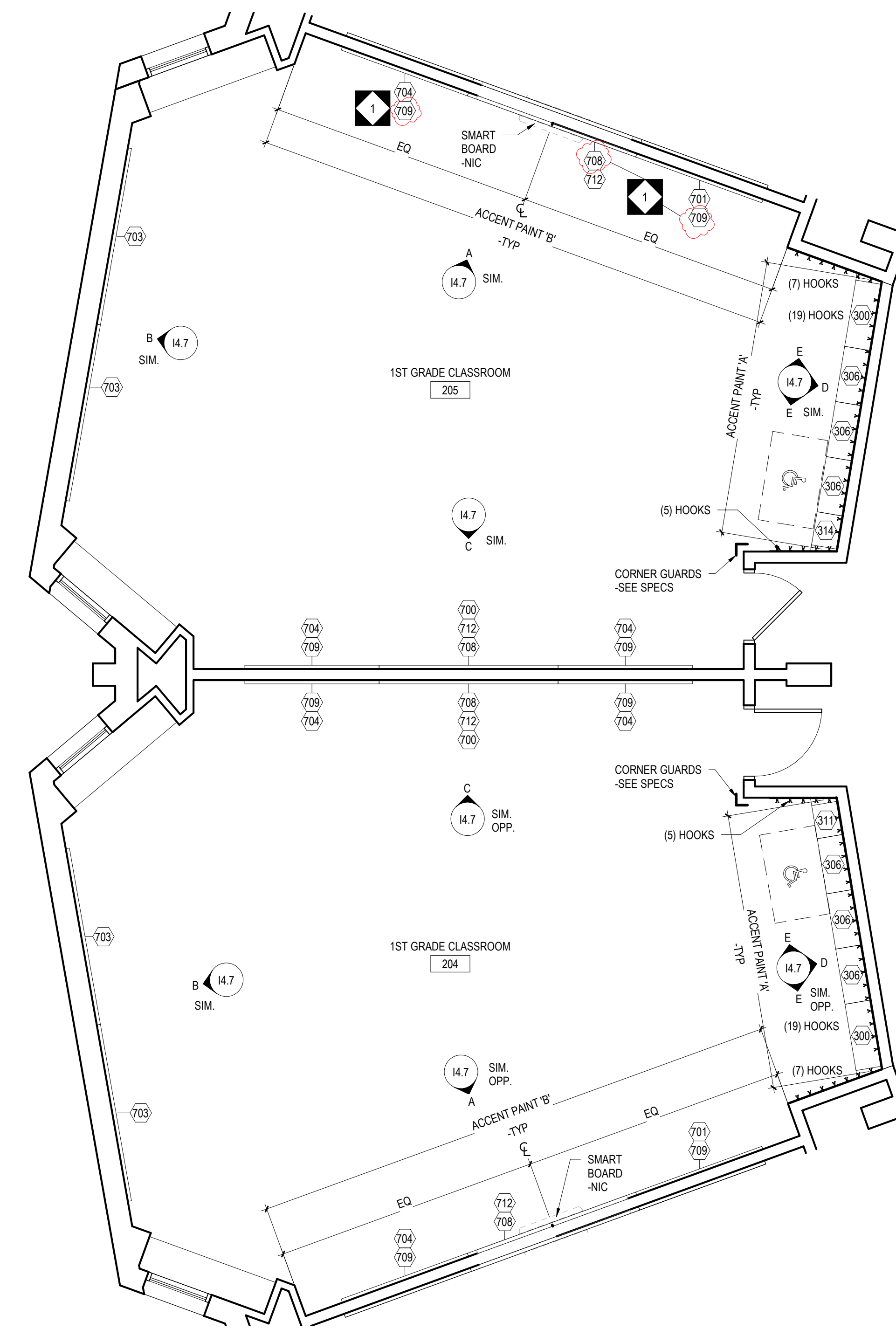
14.3



1 FIRST GRADE - ROOM 201, 202
14.3 1/4" = 1'-0"



2 FIRST GRADE - ROOM 203
14.3 1/4" = 1'-0"



3 FIRST GRADE - ROOM 204, 205
14.3 1/4" = 1'-0"

GRADE 1-3 MOUNTING HEIGHT SCHEDULE	
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE
TACK BOARD	2'-6" AFF TO BOTTOM EDGE
BASE CABINETS	2'-6" AFF TO TOP OF COUNTERTOP
WALL CABINETS	SEE TYPICAL SECTION DETAIL
SMART-BOARD	CENTERED ON THE WALL
NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNTED NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MARKER BOARD MATCH EXISTING HEIGHT.	

14.3 - GENERAL CASEWORK AND EQUIPMENT SCHEDULE

NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS
300	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	36"W x 14"D x 30"H
301	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	33"W x 14"D x 30"H
306	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	30"W x 14"D x 30"H
309	1-DOOR WALL CABINET - LEFT HINGED	SEE SPECIFICATIONS	--	21"W x 14"D x 30"H
311	1-DOOR WALL CABINET - LEFT HINGED	SEE SPECIFICATIONS	--	18"W x 14"D x 30"H
314	1-DOOR WALL CABINET - RIGHT HINGED	SEE SPECIFICATIONS	--	18"W x 14"D x 30"H
700	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
701	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
702	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H
703	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
704	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
705	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H
708	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 1'-0"H
709	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 1'-0"H
710	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 1'-0"H
712	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2"H

SEAL:



R. JEFFREY STRAUB
STATE AND LICENSE NO: RA03652

ARCHITECT

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100% DESIGN SUBMISSION
1/22/2020

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1	3/5/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

MAILING ADDRESS: 5116 PULASKI AVE, PHILADELPHIA, PA 19144
DEED ADDRESS: 5116-60 PULASKI AVE, PHILADELPHIA, PA 19144-4022

PROJECT TITLE

CLASSROOM MODERNIZATION

DRAWING TITLE

LARGE SCALE LAYOUTS - SECOND GRADE

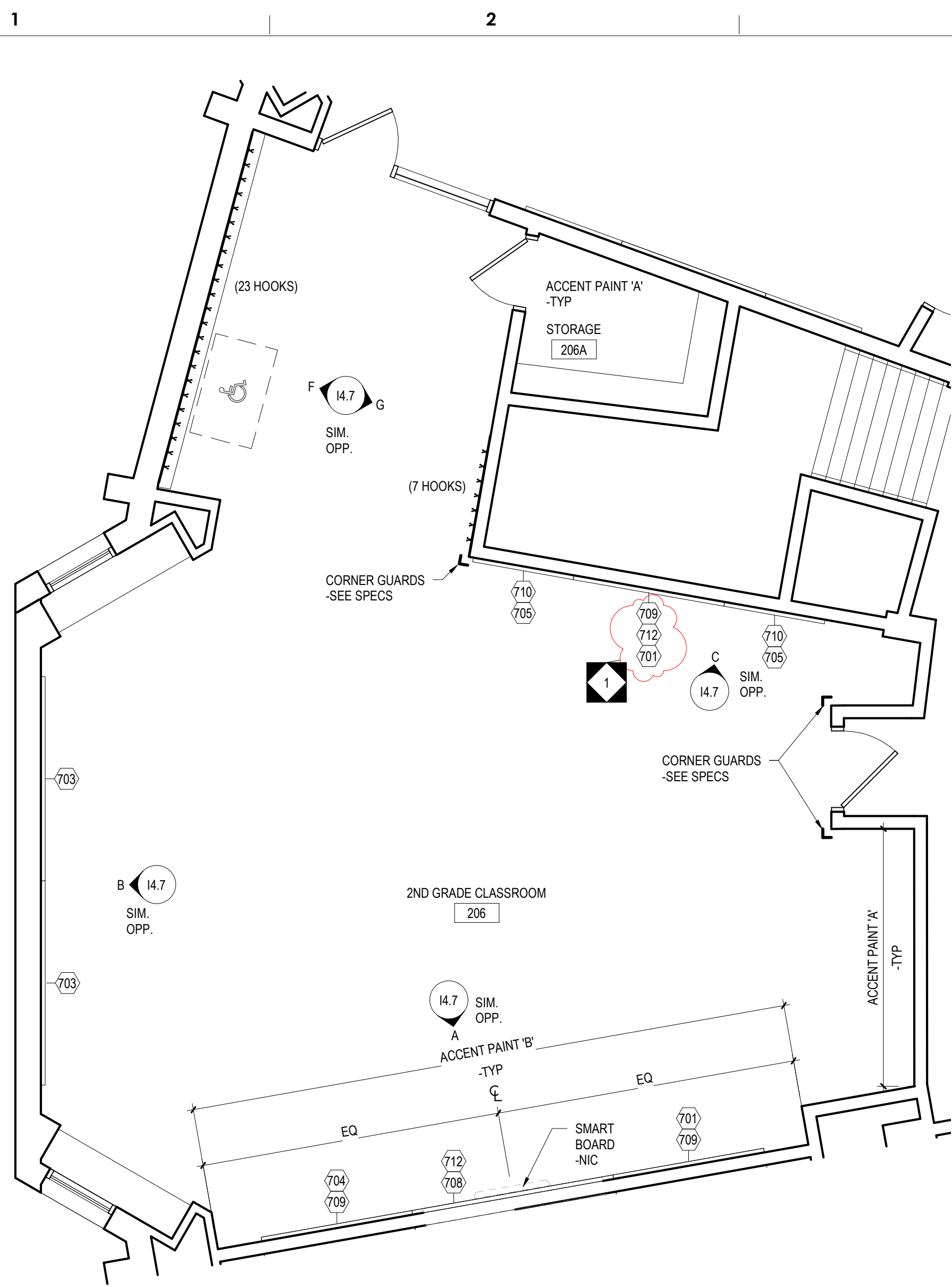
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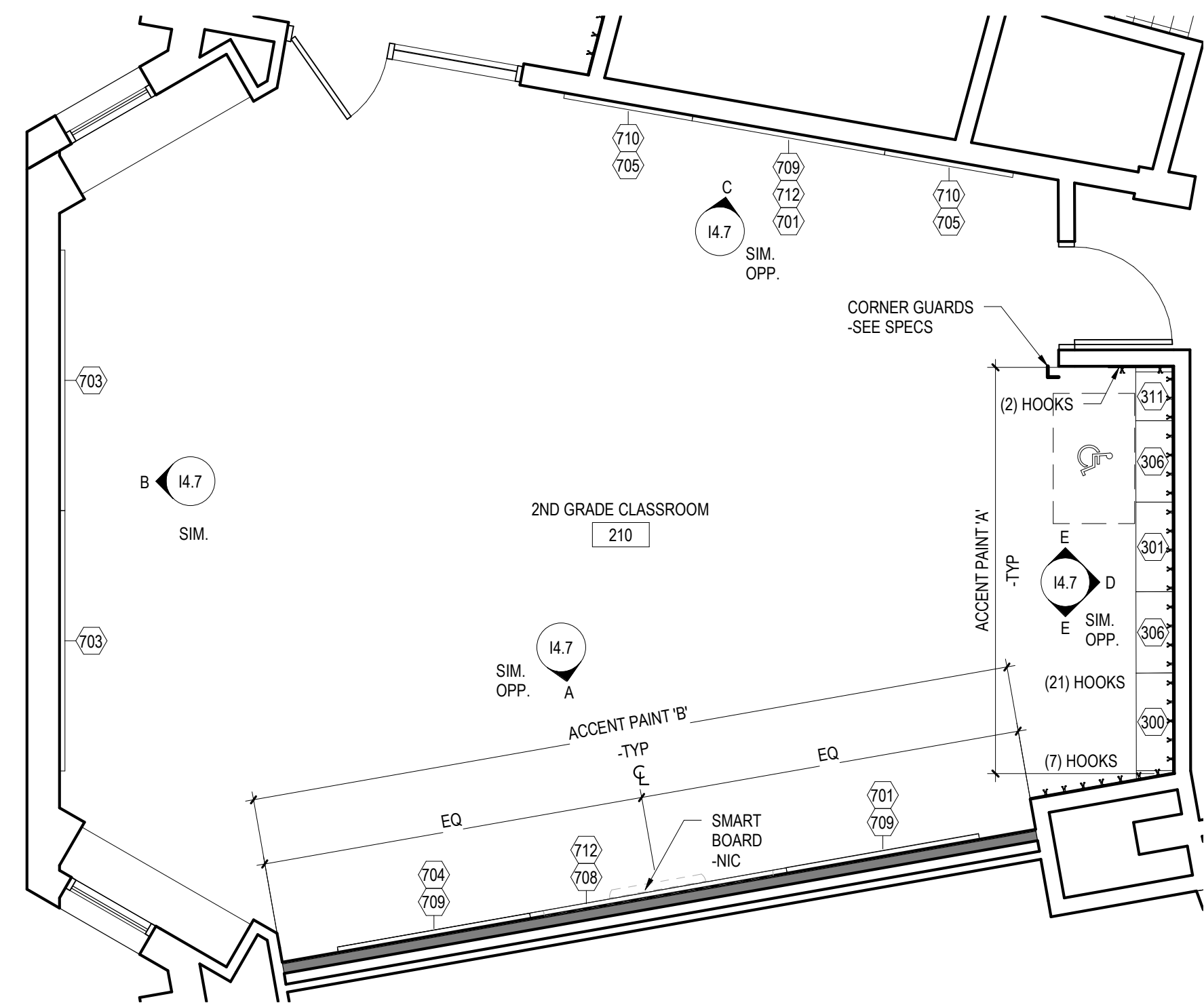
B-014C OF 2019 / 20
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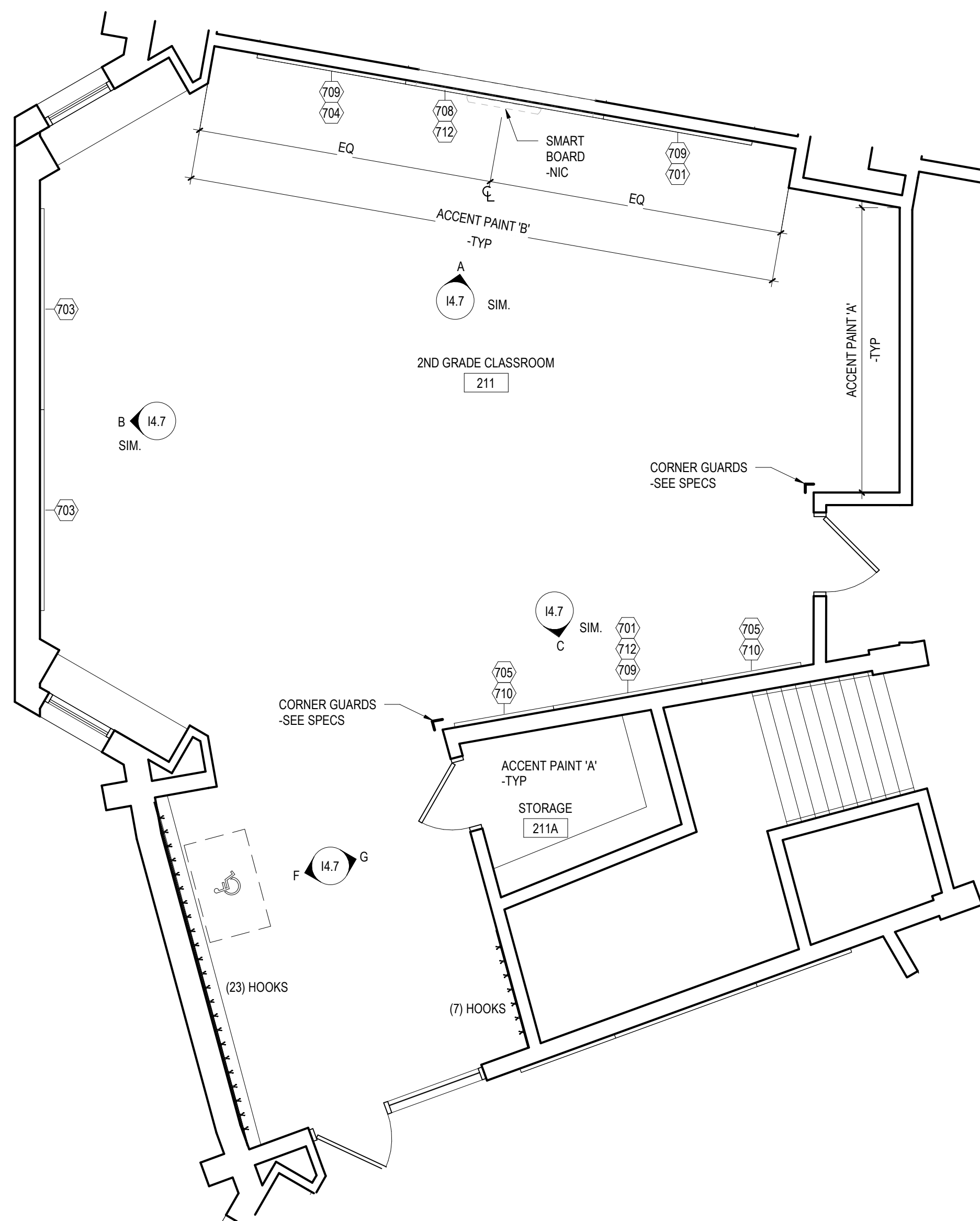
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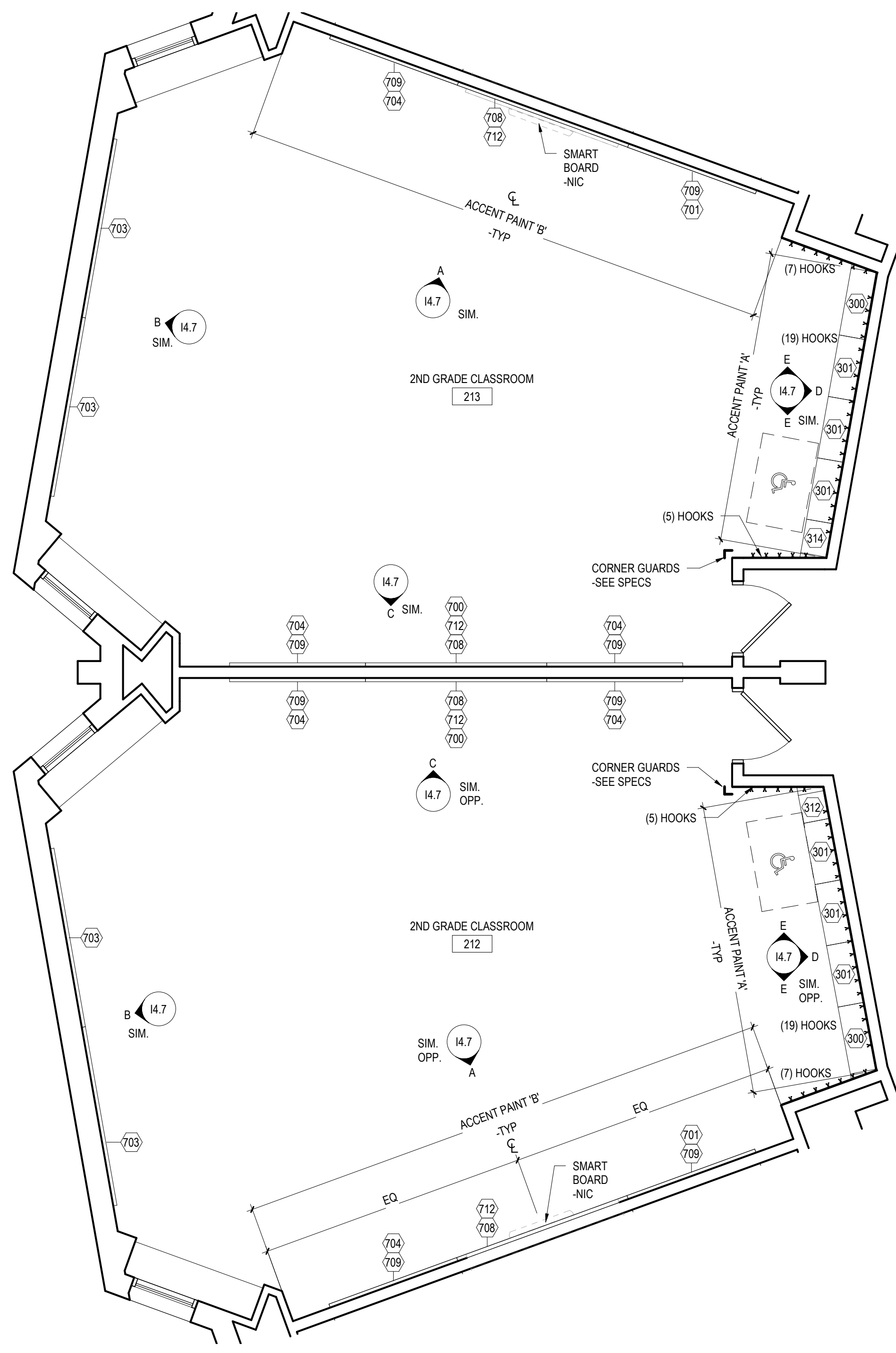
1 SECOND GRADE - ROOM 206
1/4" = 1'-0"



2 SECOND GRADE - ROOM 210
1/4" = 1'-0"



3 SECOND GRADE - ROOM 211
1/4" = 1'-0"



4 SECOND GRADE - ROOM 212, 213
1/4" = 1'-0"

GRADE 1-3 MOUNTING HEIGHT SCHEDULE	
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE
TACK BOARD	2'-6" AFF TO BOTTOM EDGE
BASE CABINETS	2'-6" AFF TO TOP OF COUNTERTOP
WALL CABINETS	SEE TYPICAL SECTION DETAIL
SMART-BOARD	CENTERED ON THE WALL
NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNTED NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MARKER BOARD MATCH EXISTING HEIGHT.	

14.4 - GENERAL CASEWORK AND EQUIPMENT SCHEDULE				
NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS
300	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	36"W x 14"D x 30"H
301	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	33"W x 14"D x 30"H
306	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	30"W x 14"D x 30"H
311	1-DOOR WALL CABINET - LEFT HINGED	SEE SPECIFICATIONS	--	18"W x 14"D x 30"H
312	1-DOOR WALL CABINET - LEFT HINGED	SEE SPECIFICATIONS	--	15"W x 14"D x 30"H
314	1-DOOR WALL CABINET - RIGHT HINGED	SEE SPECIFICATIONS	--	18"W x 14"D x 30"H
700	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
701	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
703	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
704	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
705	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H
708	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 1'-0"H
709	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 1'-0"H
710	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 1'-0"H
712	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2'H

SEAL:



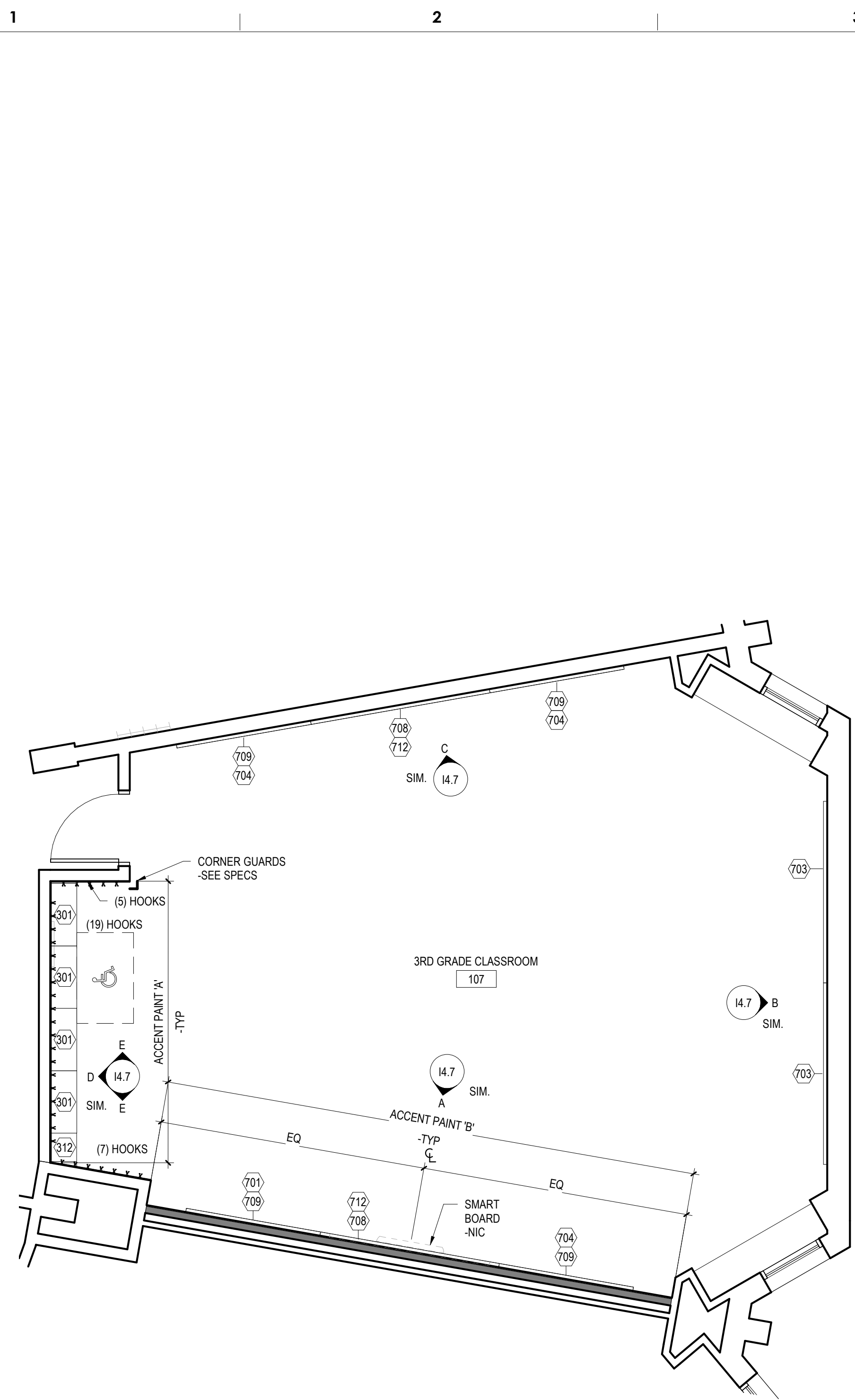
R. JEFFREY STRAUB
STATE AND LICENSE NO: RA033652

ARCHITECT

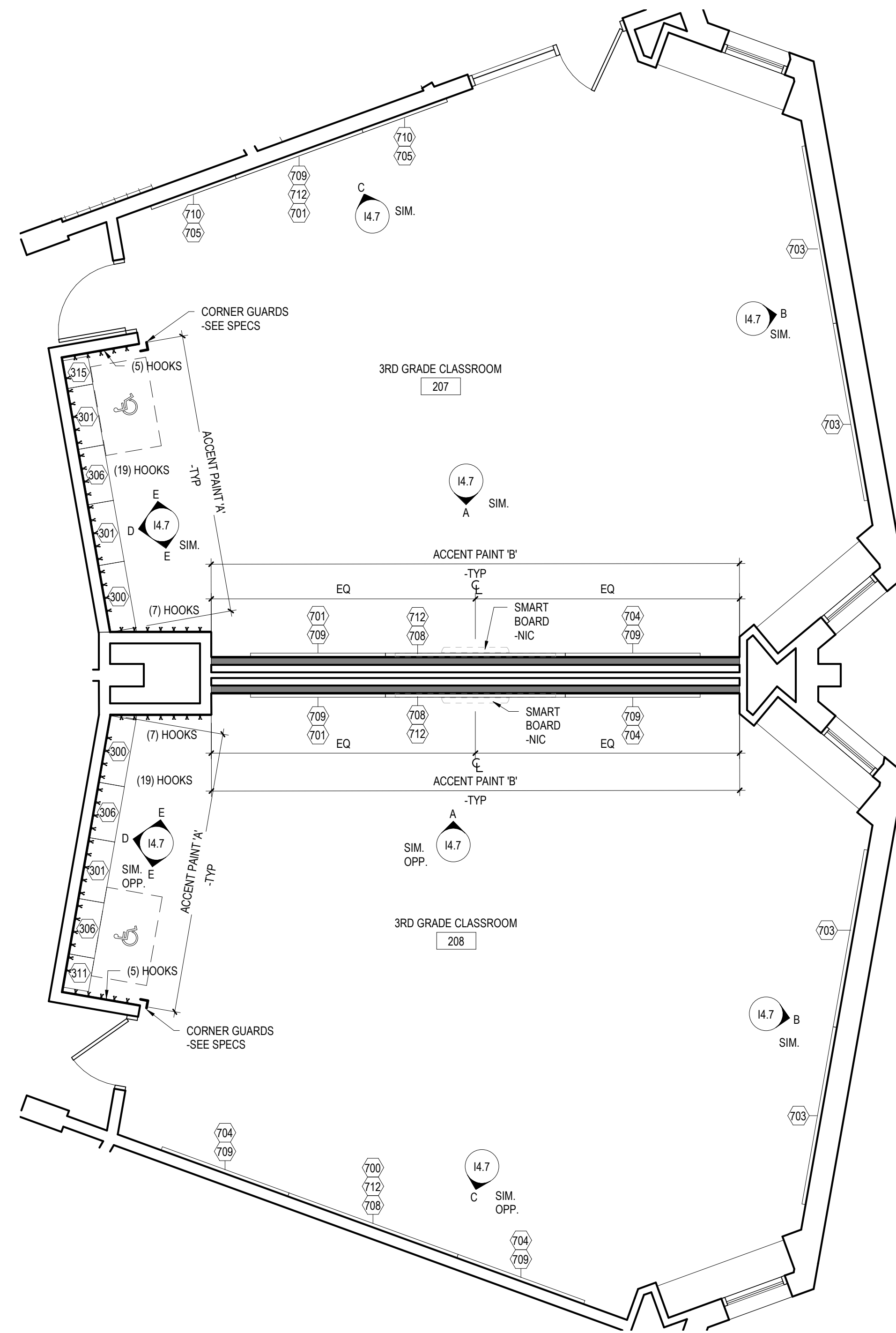
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Phone: 717-458-0272
Email: jharder@cro-architects.com
A/E/C: Jessie Harder

M/E/P ENGINEERS

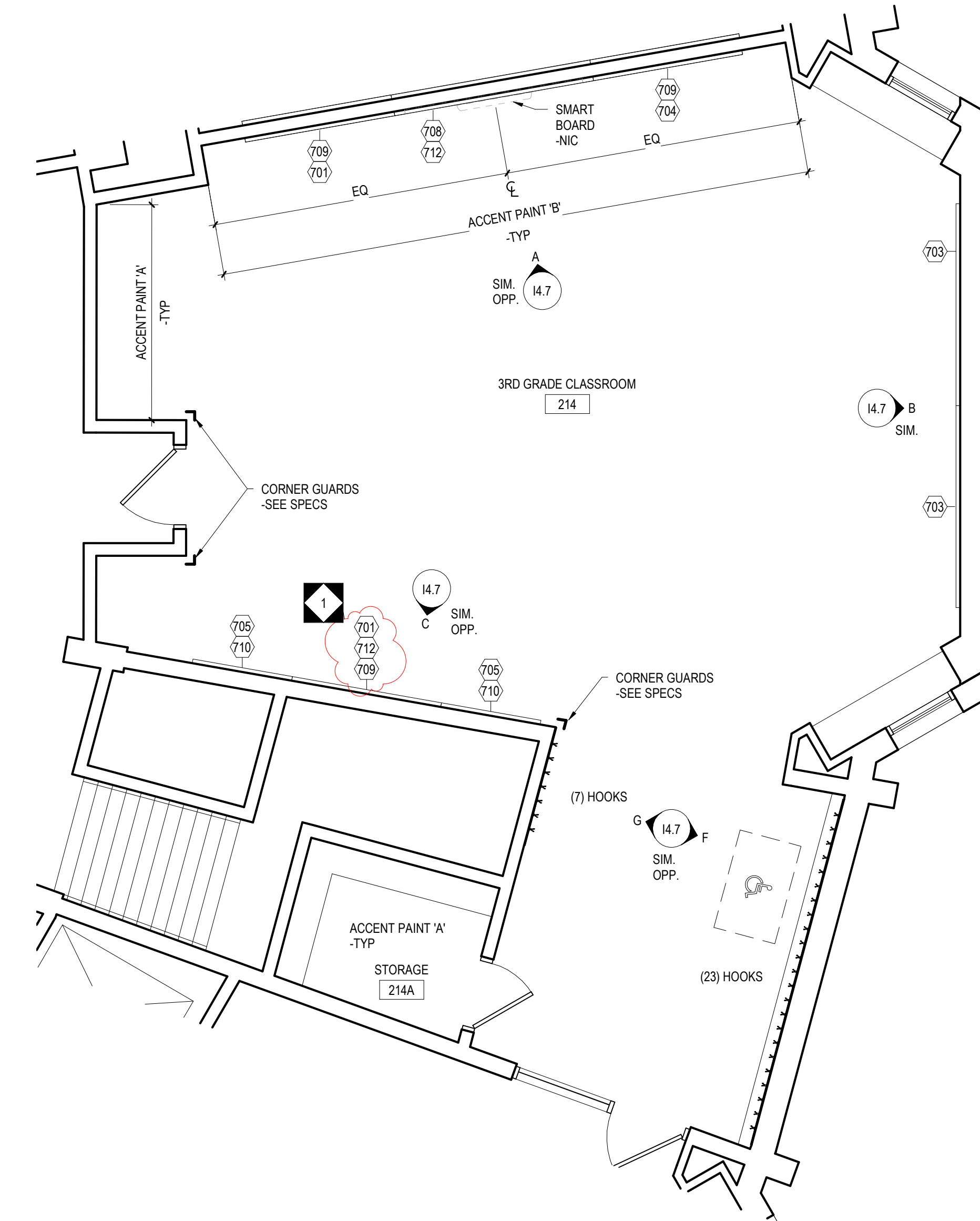
SEITZ
One South Street, Suite 1130
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A/E/C: Deepok Ajimane



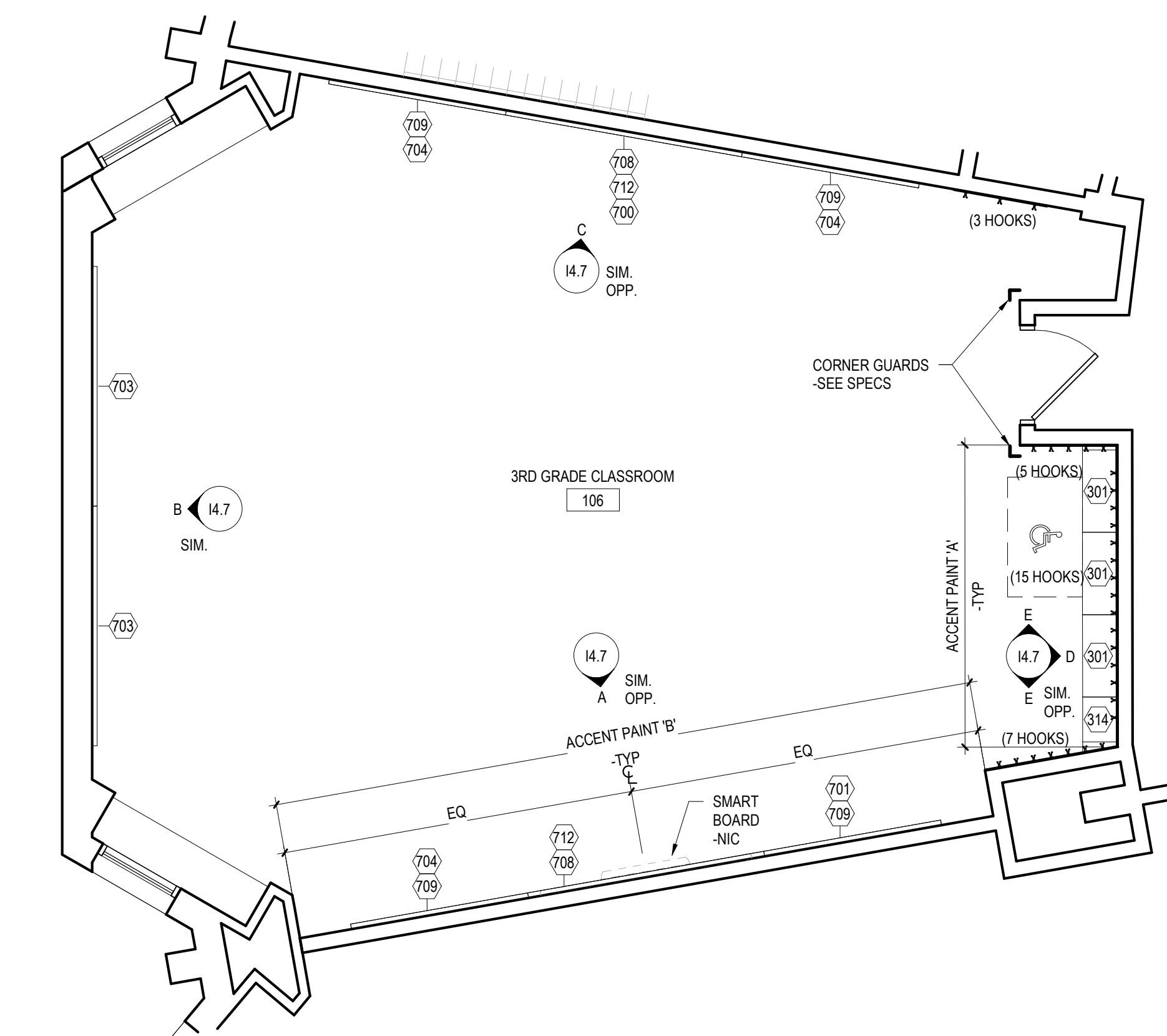
1 THIRD GRADE - ROOM 107
14.5 1/4" = 1'-0"



2 THIRD GRADE - ROOM 207, 208
14.5 1/4" = 1'-0"



3 THIRD GRADE - ROOM 214
14.5 1/4" = 1'-0"



4 THIRD GRADE - ROOM 106
14.5 1/4" = 1'-0"

GRADE 1-3 MOUNTING HEIGHT SCHEDULE	
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE
TACK BOARD	2'-6" AFF TO BOTTOM EDGE
BASE CABINETS	2'-6" AFF TO TOP OF COUNTERTOP
WALL CABINETS	SEE TYPICAL SECTION DETAIL
SMART-BOARD	CENTERED ON THE WALL

NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNTED NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MARKER BOARD MATCH EXISTING HEIGHT.

14.5 - GENERAL CASEWORK AND EQUIPMENT SCHEDULE				
NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS
300	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	36"W x 14"D x 30"H
301	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	33"W x 14"D x 30"H
306	2-DOOR WALL CABINET	SEE SPECIFICATIONS	--	30"W x 14"D x 30"H
311	1-DOOR WALL CABINET - LEFT HINGED	SEE SPECIFICATIONS	--	18"W x 14"D x 30"H
312	1-DOOR WALL CABINET - LEFT HINGED	SEE SPECIFICATIONS	--	15"W x 14"D x 30"H
314	1-DOOR WALL CABINET - RIGHT HINGED	SEE SPECIFICATIONS	--	18"W x 14"D x 30"H
315	1-DOOR WALL CABINET - RIGHT HINGED	SEE SPECIFICATIONS	--	15"W x 14"D x 30"H
700	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
701	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
703	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
704	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
705	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H
708	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 1'-0"H
709	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 1'-0"H
710	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 1'-0"H
712	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2"H

100% DESIGN SUBMISSION
1/22/2020

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1	3/5/2020	ADDENDUM # 1
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

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DEED ADDRESS: 5116-60 PULASKI AVE, PHILADELPHIA, PA 19144-4022

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE

LARGE SCALE LAYOUTS - THIRD GRADE

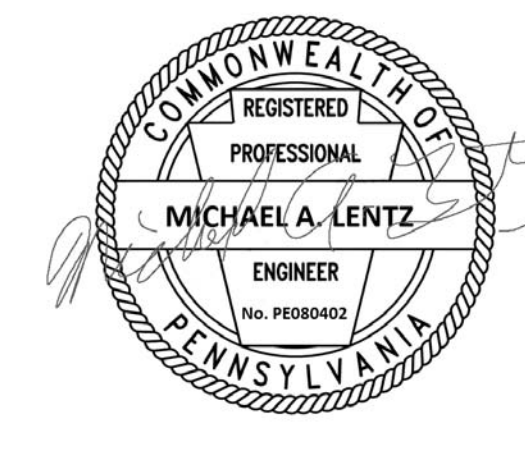
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B-014C OF 2019 / 20
B-018C OF 2019 / 20

DRAWING NO.
14.5

SEAL:



MICHAEL A. LENTZ
STATE AND LICENSE NO. PE000402

ARCHITECT

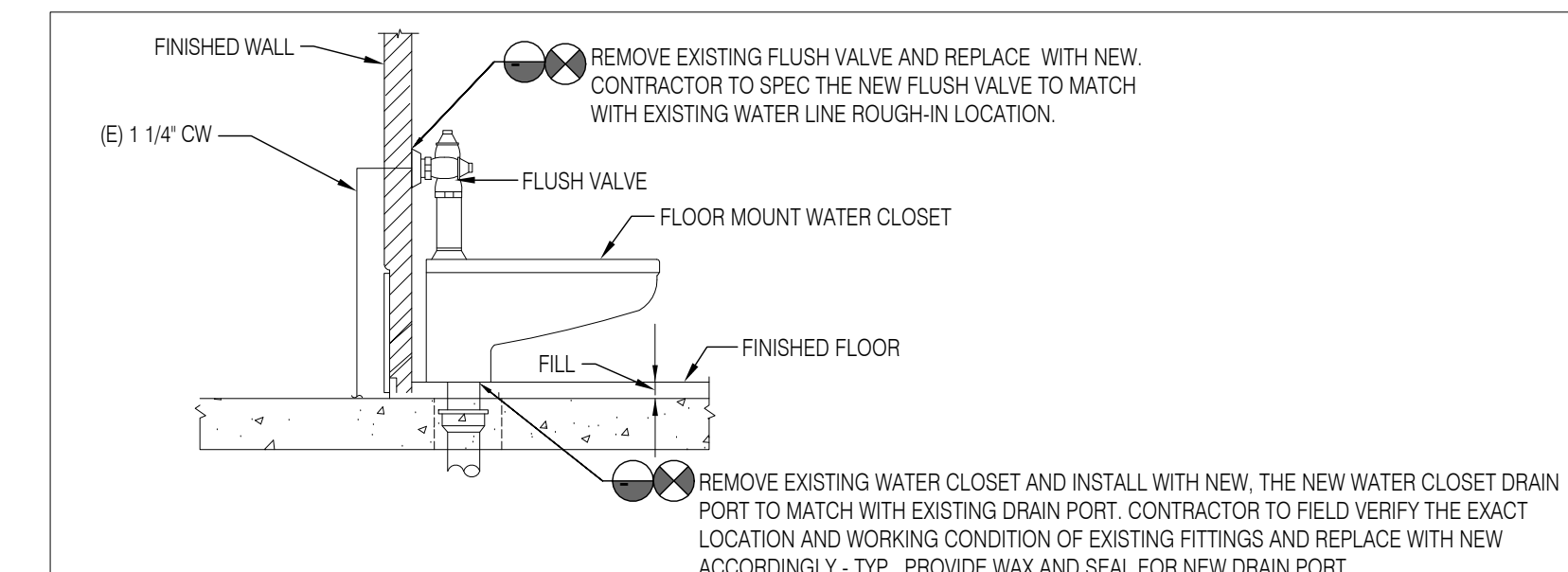
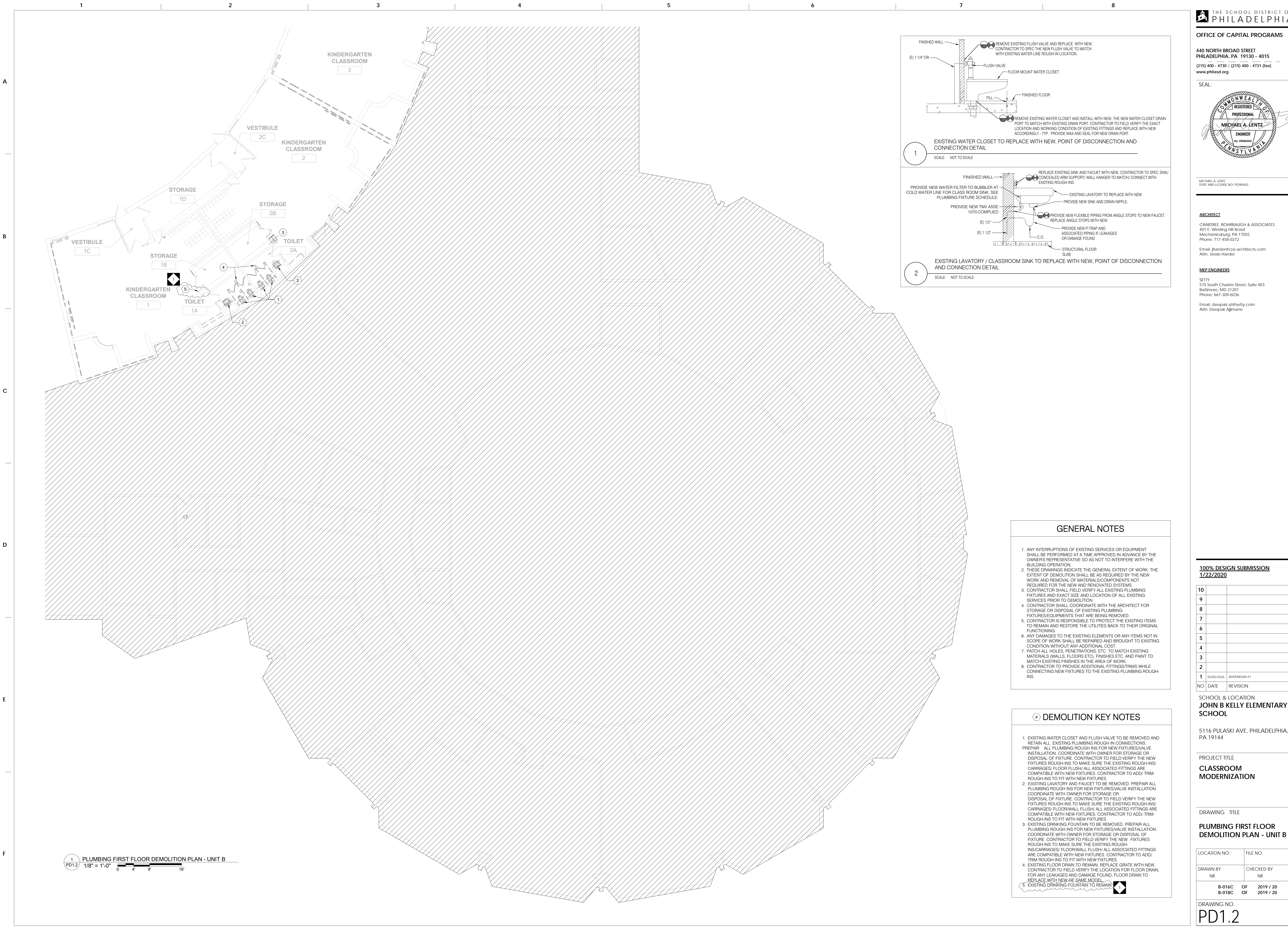
CRABTREE, ROHRBAUGH & ASSOCIATES
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Mechanicsburg, PA 17055
Phone: 717-458-0272

Email: jharder@cra-architects.com
Attn: Jessie Harder

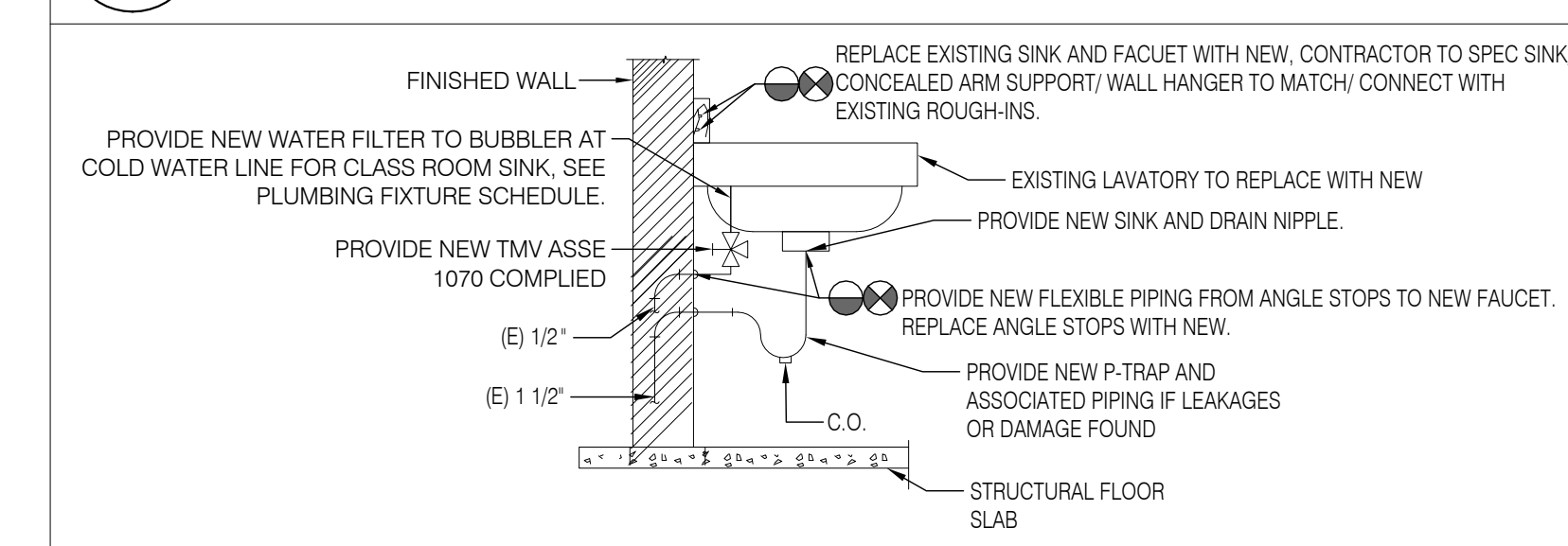
M.P. ENGINEERS

SETTY
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Phone: 667-309-6036

Email: deepak.at@setty.com
Attn: Deepak Ajmane



1
EXISTING WATER CLOSET TO REPLACE WITH NEW, POINT OF DISCONNECTION AND CONNECTION DETAIL
SCALE: NOT TO SCALE



2
EXISTING LAVATORY / CLASSROOM SINK TO REPLACE WITH NEW, POINT OF DISCONNECTION AND CONNECTION DETAIL
SCALE: NOT TO SCALE

- GENERAL NOTES**
1. 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.
 2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIAL COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.
 3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
 4. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
 5. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTIONING.
 6. 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.
 7. 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.
 8. CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH-INS.

- DEMOLITION KEY NOTES**
1. EXISTING WATER CLOSET AND FLUSH VALVE TO BE REMOVED AND RETAIN ALL EXISTING PLUMBING ROUGH IN CONNECTIONS. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ CARRIAGES/ FLOOR FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES.
 2. EXISTING LAVATORY AND FACET TO BE REMOVED. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ CARRIAGES/ FLOORWALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES.
 3. EXISTING DRINKING FOUNTAIN TO BE REMOVED. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ CARRIAGES/ FLOORWALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES.
 4. EXISTING FLOOR DRAIN TO REMAIN. REPLACE GRATE WITH NEW. CONTRACTOR TO FIELD VERIFY THE LOCATION FOR FLOOR DRAIN, FOR ANY LEAKAGES AND DAMAGE FOUND, FLOOR DRAIN TO REPLACE WITH NEW OF SAME MODEL.
 5. EXISTING DRINKING FOUNTAIN TO REMAIN.

100% DESIGN SUBMISSION
1/22/2020

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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT B

LOCATION NO.	FILE NO.
DRAWN BY NK	CHECKED BY NK
B-016C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
PD1.2

1
PD1.2
1/8" = 1'-0"
0 4 8 16'

SEAL:



MICHAEL A. LENTZ
STATE AND LICENSE NO. PE080402

ARCHITECT

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Phone: 667-309-6036

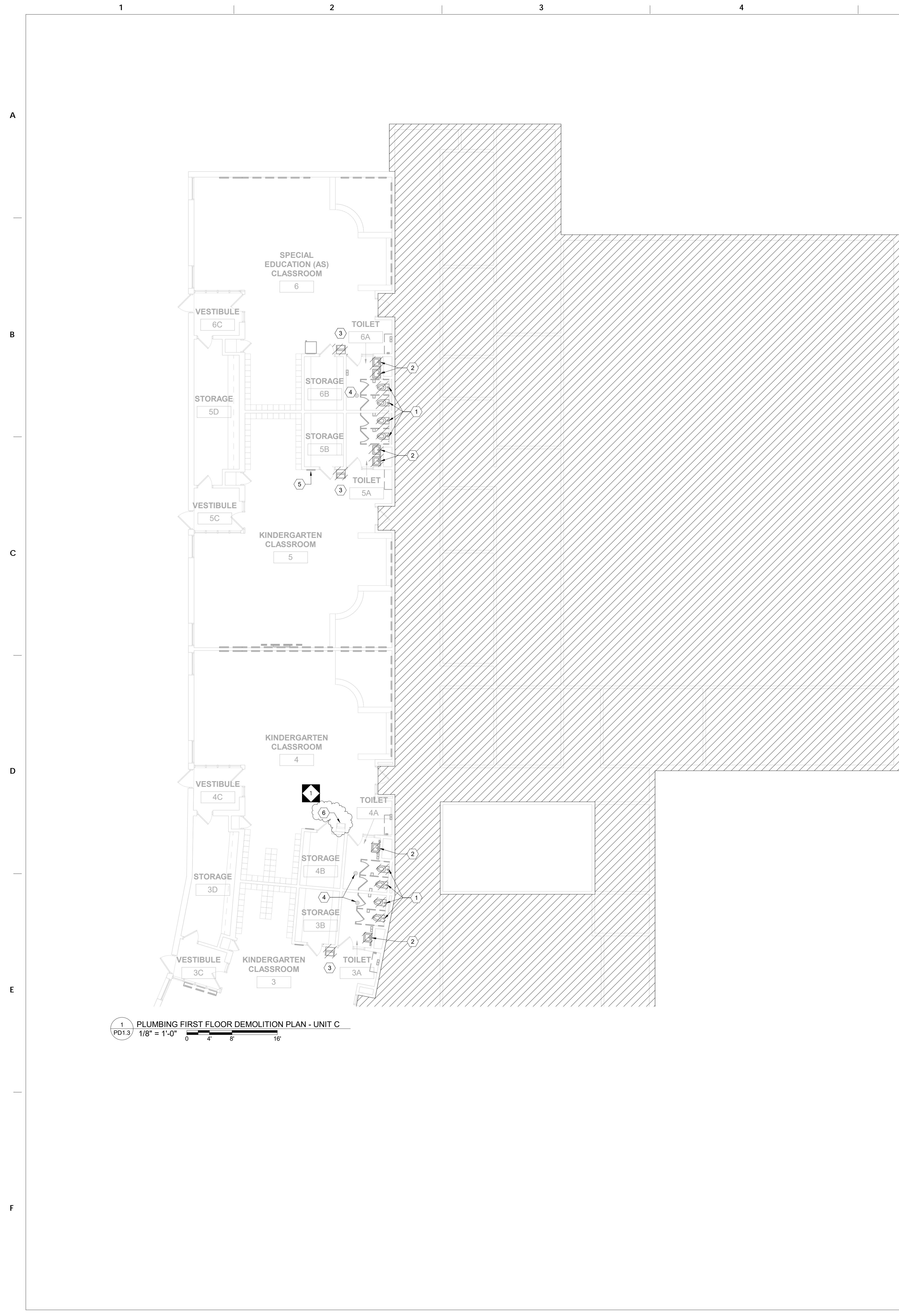
Email: deepak@setty.com
Attn: Deepak Ajimane

GENERAL NOTES

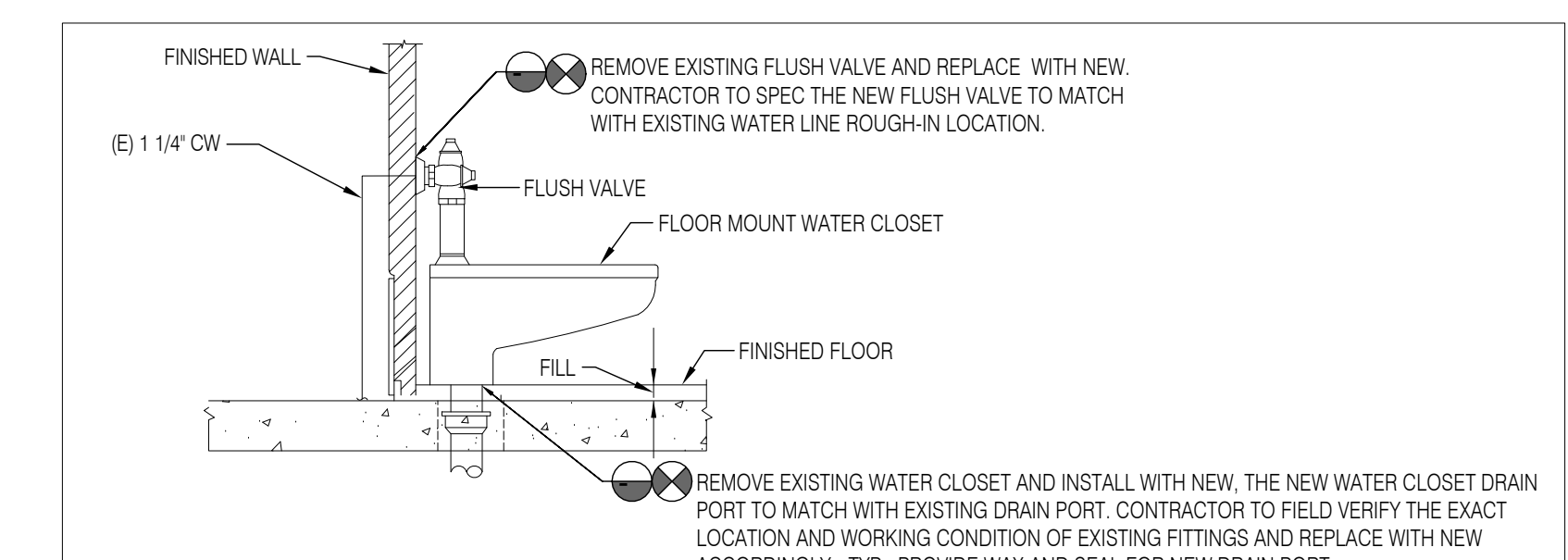
1. ANY INTERRUPTIONS OF EXISTING SERVICES OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE BUILDING OPERATION.
2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK AND REMOVAL OF MATERIALS/COMPONENTS NOT REQUIRED FOR THE NEW AND RENOVATED SYSTEMS.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
4. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
5. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTIONING.
6. 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.
7. 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.
8. CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH-INS.

DEMOLITION KEY NOTES

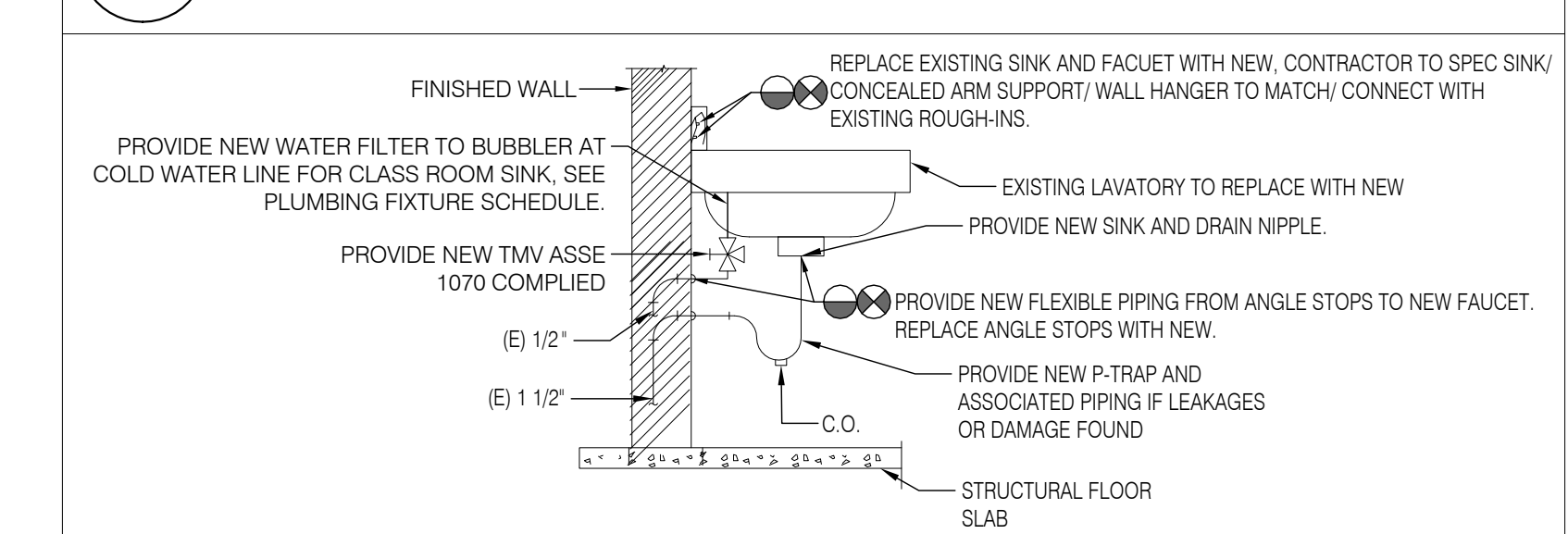
1. EXISTING WATER CLOSET AND FLUSH VALVE TO BE REMOVED AND RETAIN ALL EXISTING PLUMBING ROUGH IN CONNECTIONS. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/CARRIAGES/ FLOOR FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES.
2. EXISTING LAVATORY AND FAUCET TO BE REMOVED. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ CARRIAGES/ FLOOR WALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES.
3. EXISTING DRINKING FOUNTAIN TO BE REMOVED. PREPARE ALL PLUMBING ROUGH INS FOR NEW FIXTURES/VALVE INSTALLATION. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL OF FIXTURE. CONTRACTOR TO FIELD VERIFY THE NEW FIXTURES ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/CARRIAGES/ FLOOR WALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/ TRIM ROUGH-INS TO FIT WITH NEW FIXTURES.
4. EXISTING FLOOR DRAIN TO REMAIN. REPLACE GRATE WITH NEW. CONTRACTOR TO FIELD VERIFY THE LOCATION FOR FLOOR DRAIN. FOR ANY LEAKAGES AND DAMAGE FOUND, FLOOR DRAIN TO REPLACE WITH NEW OF SAME MODEL.
5. EXISTING WATER CHILLER TO BE REMOVED. CUT AND CAP ALL PLUMBING ROUGH-INS BACK TO WALL/ CEILING BACK TO THE MAIN LINE TO AVOID ANY DEAD LEGS.
6. EXISTING DRINKING FOUNTAIN TO REMAIN.



1 PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT C
PD1.3 1/8" = 1'-0" 0 4 8 16



1 EXISTING WATER CLOSET TO REPLACE WITH NEW, POINT OF DISCONNECTION AND CONNECTION DETAIL
SCALE: NOT TO SCALE



2 EXISTING LAVATORY / CLASSROOM SINK TO REPLACE WITH NEW, POINT OF DISCONNECTION AND CONNECTION DETAIL
SCALE: NOT TO SCALE

100% DESIGN SUBMISSION
1/22/2020

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1	03/05/2020	ADDendum #1
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

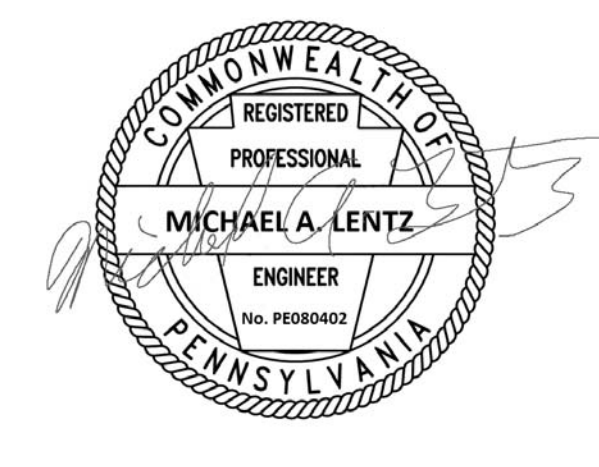
PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT C

LOCATION NO.	FILE NO.
DRAWN BY NK	CHECKED BY NK
B-014C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
PD1.3

SEAL:



MICHAEL A. LENTZ
STATE AND LICENSE NO. PE080402

ARCHITECT

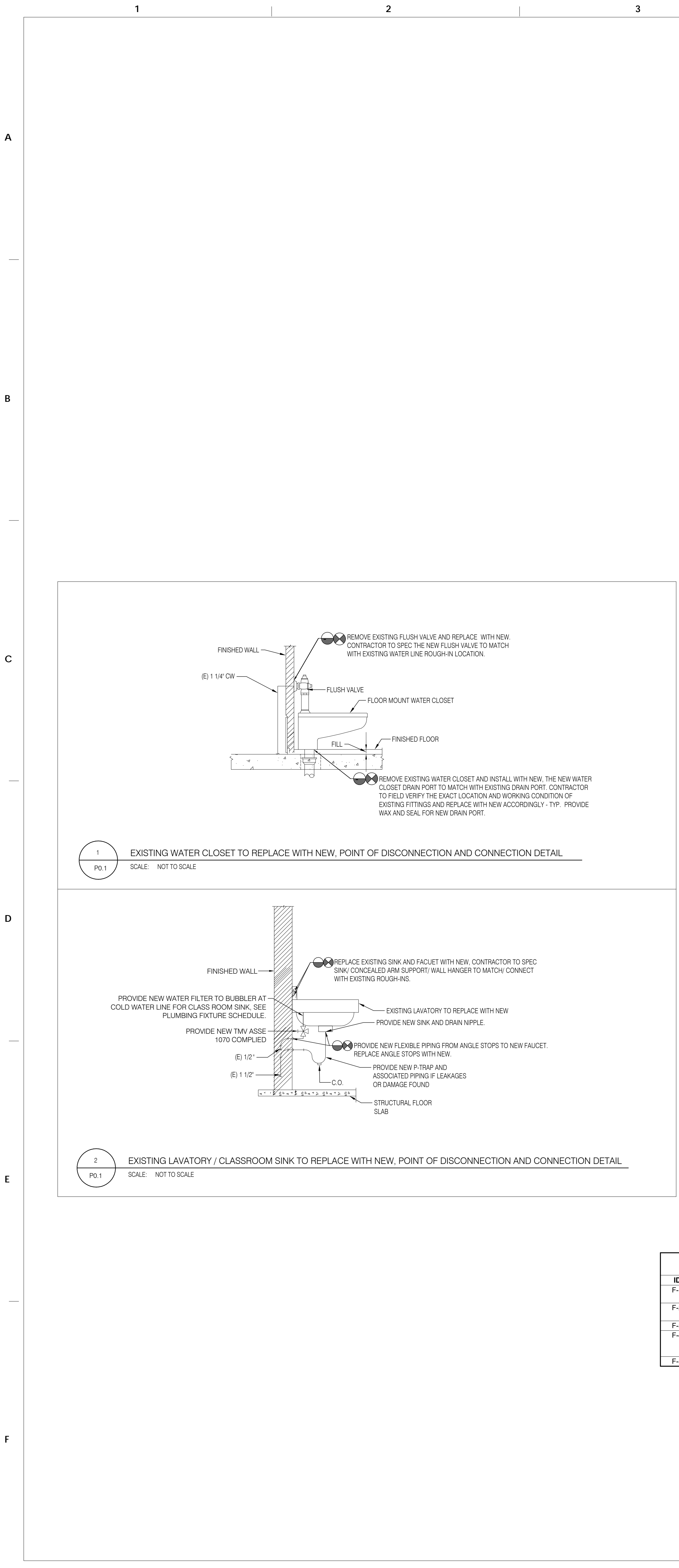
CRABTREE, ROHRBAUGH & ASSOCIATES
401 E. Winding Hill Road
Mechanicsburg, PA 17055
Phone: 717-458-0272

Email: jharder@crza-architects.com
Attn: Jessie Harder

M/E/P ENGINEERS

SETTY
575 South Charles Street, Suite 403
Baltimore, MD 21201
Phone: 667-309-6036

Email: deepak@setty.com
Attn: Deepak Ajmane



GENERAL PLUMBING NOTES	
1.	ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2.	CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
3.	CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.
4.	CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE, FIXTURES, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURERS DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURERS WARRANTY.
5.	DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER, AND PERFORM CUTTING IN A MANNER AS DIRECTED BY ARCHITECT/ENGINEER.
6.	PROVIDE SLEEVES FOR ALL FLOOR PENETRATIONS WITH TOP OF SLEEVE 2" ABOVE FINISHED FLOOR.
7.	PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETELY AS SPECIFIED ON DRAWINGS.
8.	PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND ANGLE STOPS IN HOT AND COLD WATER PIPING TO ALL PLUMBING FIXTURES.
9.	FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF DRAIN TO BE FLUSH WITH FINISHED FLOOR.
10.	MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES. SET AT 105 DEGREES F.
11.	CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.
12.	MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATION OF WORK, CLEAN ALL FIXTURES OF ALL RUBBISH, PLASTER, DIRT AND OTHER DEBRIS.
13.	TEST ALL SYSTEMS. ALL FIXTURES SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
14.	ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
15.	ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
16.	CONTRACTOR SHALL REFER TO CONSTRUCTION DOCUMENT DRAWINGS, EQUIPMENT, LAYOUT DRAWINGS, AND ALL OTHER RELATED DRAWINGS AS REQUIRED FOR DIMENSIONS, DETAILS, ETC. PLUMBING LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL COORDINATE ALL WORK WITH FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED AS REQUIRED. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AS REQUIRED.
17.	CONTRACTOR SHALL REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
18.	CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM. INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.
19.	ALL PIPING SHALL BE HUNG, FIRMLY ANCHORED, AND SUPPORTED IN ACCORDANCE WITH MSS SP-58 MSS SP-69.
20.	VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
21.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED.
22.	CONTRACTOR SHALL SLEEVE ALL PIPING CROSSING THROUGH OR UNDERNEATH STRUCTURAL MEMBERS. NOTIFY ARCHITECT AND ENGINEERS PRIOR TO PROCEEDINGS WITH WORK TO ASSURE STRUCTURAL SUPPORT WILL NOT BE AFFECTED.
23.	DOMESTIC WATER SHALL BE SLOPED TO DRAIN POINTS.
24.	ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN UNLESS OTHERWISE NOTED.
25.	ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN UNLESS OTHERWISE NOTED.
26.	ALL STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN UNLESS OTHERWISE NOTED.
27.	ALL ILLUSTRATED DRAINAGE PIPING IS BELOW THE FLOOR ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED. ALL DOMESTIC WATER AND VENT PIPING ILLUSTRATED IS ABOVE OR AT THE CEILING ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED.
28.	PROVIDE PRODUCTS AND FIXTURES AS SPECIFIED OR THEIR EQUIVALENT PROVIDED BY A.E.
29.	HOT WATER PIPING SHALL BE IN ACCORDANCE WITH SECTION C404.5 OF THE INTERNATIONAL ENERGY CONSERVATION CODE.
30.	ALL PIPINGS PASSING THROUGH BUILDING EXPANSION JOINTS SHALL BE PROVIDED WITH ADEQUATE FLEXIBLE CONNECTIONS TO ACCOMMODATE THE ANTICIPATED MOVEMENT. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT SIZE AND LOCATION.
31.	ALL EXISTING PLUMBING PIPES WHERE NEW PIPES ADDED NOT MENTIONED TO REMAIN, CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, SIZE, AND WORKING CONDITION OF ALL EXISTING PIPES. A SURVEY NEED TO BE CONDUCTED AND REPLACE WITH NEW AS NEEDED.
32.	CONTRACTOR TO FIELD VERIFY ALL EXISTING WATER PIPES LOCATION, SIZE, AND CONDUCT STERILIZE, FLUSHED FOR CHLORINE FREE, DEBRIS AND CONTAMINANTS TO AVOID ANY HARMFUL SITUATIONS.
33.	CONTRACTOR TO FIELD VERIFY ALL EXISTING SANITARY DRAINS AND ALL ASSOCIATED PIPES NEED TO CLEAN FOR DEBRIS AND CONTAMINANTS TO AVOID ANY BLOCKAGES.
34.	CONTRACTOR TO ENSURE ALL SINKS AND TOILETS FLOW PROPERLY BEFORE ANY DEMOLITION WORK IS STARTED AND THEN AGAIN AFTER WORK IS FINISHED TO ENSURE THERE IS NOT ANY BLOCKAGES OR LEAKS ONCE THE ROOM IS TURNED OVER.

GENERAL PLUMBING DEMOLITION NOTES	
1.	WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2.	DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3.	WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4.	ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5.	THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

DESIGN CRITERIA	
PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC)	
2018	PHILADELPHIA EXISTING BUILDING CODE
2018	INTERNATIONAL BUILDING CODE
2018	PHILADELPHIA PLUMBING CODE
AS PER LOCAL AUTHORITIES	

ABBREVIATIONS	
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AF	ABOVE FINISHED FLOOR
AFP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CF	COFFEE MAKER
CLG	CEILING
CO	CLEAN OUT
CONT	CONTINUATION
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DMR	DISTRIBUTED METER ROOM
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DF	DRINKING FOUNTAIN
DW	DISHWASHER
E	EXISTING
EA	EACH
EQUIP	EQUIPMENT
ETP	ELECTRONIC TRAP PRIMER
ETR	EXISTING TO REMAIN
F	WATER FILTER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
FM	FORCED MAIN
GAL	GALLON
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
IC	ICE MAKER
IN	INCH
INV	INVERT
IW	INDIRECT WASTE
LAV	LAVATORY
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MPR	MANUFACTURER
MCSV	MASTER GAS CONTROL VALVE
MIN	MINIMUM
MS	MOP SINK
MTD	MOUNTED
N	NEW
NC	NORMALLY CLOSED
NFWH	NON FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NT	ACID NEUTRALIZATION TANK
OSD	OPEN SITE DRAIN
P	PUMP
POI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RCV	RISER CONTROL VALVE
RF	REFRIGERATOR MACHINE
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ABSORBER
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
SS	SERVICE SINK
STRUC	STRUCTURAL
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VENT PIPE
VTR	VENT THRU ROOF
W	WATT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WTR	WATER
WTH	WITH
W/O	WITHOUT

PLUMBING SYMBOLS		
ANNOTATIONS		
	DOMESTIC WATER RISER DESIGNATION	
	SANITARY WATER RISER DESIGNATION	
	VENT RISER DESIGNATION	
	REVISION NUMBER	
	POINT OF DEMOLITION	
	POINT OF CONNECTION	
	PIPE SIZE	
	PIPE SIZE/NOTE	
DETAIL ANNOTATIONS		
	DETAIL NUMBER	
	WHERE THE DETAIL IS DRAWN	
	DETAIL NUMBER	
	WHERE THE DETAIL IS DRAWN	
DRAINS		
	FLOOR DRAIN	
	FLOOR CLEAN OUT	
	GRADE CLEAN OUT	
	FLOOR SINK DRAIN	
	OPEN SITE DRAIN	
	FUNNEL FLOOR DRAIN	
MISCELLANEOUS		
	HORIZONTAL CLEANOUT	
	HOSE BIB	
	WATER METER	
	WATER FILTER	
	VACUUM BREAKER	
	TEMPERATURE AND PRESSURE RELIEF VALVE	
	TRAP PRIMER	
	DIRT LEG	
	BREAK PIPE BELOW	
PIPE REPRESENTATION		
	EXISTING CW	
	EXISTING HW	
	EXISTING HWR	
	EXISTING SAN	
	EXISTING VENT	
	EXISTING STORM	
	DEMOLITION CW	
	DEMOLITION HW	
	DEMOLITION HWR	
	DEMOLITION SAN	
	DEMOLITION VENT	
	DEMOLITION STORM	
	NEW CW	
	NEW HW	
	NEW HWR	
	NEW SAN	
	NEW SAN BELOW GROUND	
	NEW VENT	
	NEW STORM	
	INDIRECT DRAINAGE PIPE	
	TRAP PRIMER TUBE	
PIPE VALVES AND ACCESSORIES		
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE1013)	
	DOUBLE CHECK VALVE BACKFLOW PREVENTER (ASSE 1015, 1048)	
	BALL VALVE	
	CHECK VALVE	
	SOLENOID VALVE	
	GATE VALVE	
	PRESSURE REDUCING VALVE	
	THERMOSTATIC MIXING VALVE	
	PLUG VALVE	
	BALANCING VALVE	
	VACUUM RELIEF VALVE	
	BACKFLOW PREVENTER (ASSE 1024)	
	BACK WATER VALVE	
	PUMP	
	WATER HAMMER ARRESTOR (A = PIPE SIZE)	
	PRESSURE GAUGE	
	THERMOMETER GAUGE	
	AQUASTAT VALVE	
	STRAINER	
PIPE FITTINGS		
	REDUCER/INCREASER	
	CAPPED CONNECTION	
	PIPE UNION	
	ELBOW TURNED UP	
	ELBOW TURNED DOWN	
	TEE UP	
	TEE DOWN	
	SHUT-OFF VALVE IN RISER	
PLUMBING - DRAWING LIST		
SHEET	DRAWING	TITLE
1	PD.1	PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	PD1.1	PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT A
3	PD1.2	PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT B
4	PD1.3	PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT C
5	PD1.4	PLUMBING SECOND FLOOR DEMOLITION PLAN
6	P1.1	PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT A
7	P1.2	PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT B
8	P1.3	PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT C

ID	FIXTURE	MANUFACTURER	MODEL	FAUCET/VALVE	DESCRIPTION	MOUNTING	NOTES	PLUMBING FIXTURE ROUGH-INS
F-1	WATER CLOSET	AMERICAN STANDARD	MADERA 2858.16	MANUAL FLOWISE 6047.121.022	VITREOUS CHINA, HIGH EFFICIENCY ADJUSTABLE TAIL PIECE 1.28 GPM FLUSH VALVE.	FLOOR	FLOOR MOUNTED 15" FROM FINISHED FLOOR TO TOP OF RIM. WATER SENSE LABEL COMPLIED FLUSH VALVE.	CONNECT TO EXISTING PLUMBING ROUGH-INS
F-2	LAVATORY	AMERICAN STANDARD	LUCERNE 0356.915	MONTERREY 6500.270	CENTERSET LAVATORY FAUCET ON 8" CENTERS, POP-UP DRAIN BODY WITH 1-1/4" TAIL PIECE, WITH 1.5 GPM FLOW RATE. TWO HANDLE WIDESPREAD FAUCET.	WALL	ADA TYPE FIXTURE AND FAUCET, WATER SENSE LABEL COMPLIED FAUCET.	CONNECT TO EXISTING PLUMBING ROUGH-INS
F-3	DRINKING FOUNTAIN	AMERICAN STANDARD	LMABFDL		FILTERED NON-REFRIGERATED LIGHT GRAY GRANITE TYPE DRINKING FOUNTAIN.	WALL		CONNECT TO EXISTING PLUMBING ROUGH-INS
F-4	CLASSROOM SINK	ELKAY	ORKAAD22066R	AMERICAN STANDARD MODEL MONTERRY 6540.278	SINGLE BOWL, 5 1/2" DEEP, DROP-IN ADA STAINLESS STEEL SINK FLEXIBLE UNDERBODY FOR INSTALLATION ON 6", 12" CENTERS, SWIVEL GOOSNECK SPOUT WIDESPREAD HANDLES WITH FLOW RATE 1.5 GPM PRESSURE COMPENSATING AERATOR.	DROP-IN	FAUCET 3 HOLES ON 4" CENTERS, ADA COMPLIANT SINK AND FAUCET, WATER SENSE LABEL COMPLIED FAUCET.	CONNECT TO EXISTING PLUMBING ROUGH-INS
F-5	UTILITY SINK	FIAT	FL-1	DELTA MODEL 2133LF	WHITE BAKED ENAMEL ANGLE LEGS TYPE SERV-A-SINK, SOLID BRASS CAST BODY, TWO HANDLE TYPE FAUCET	FLOOR	TWO HANDLE DECK FAUCET FOR EXPOSED MOUNTING ON 2 HOLE SINK	CONNECT TO EXISTING PLUMBING ROUGH-INS

100% DESIGN SUBMISSION
1/22/2020

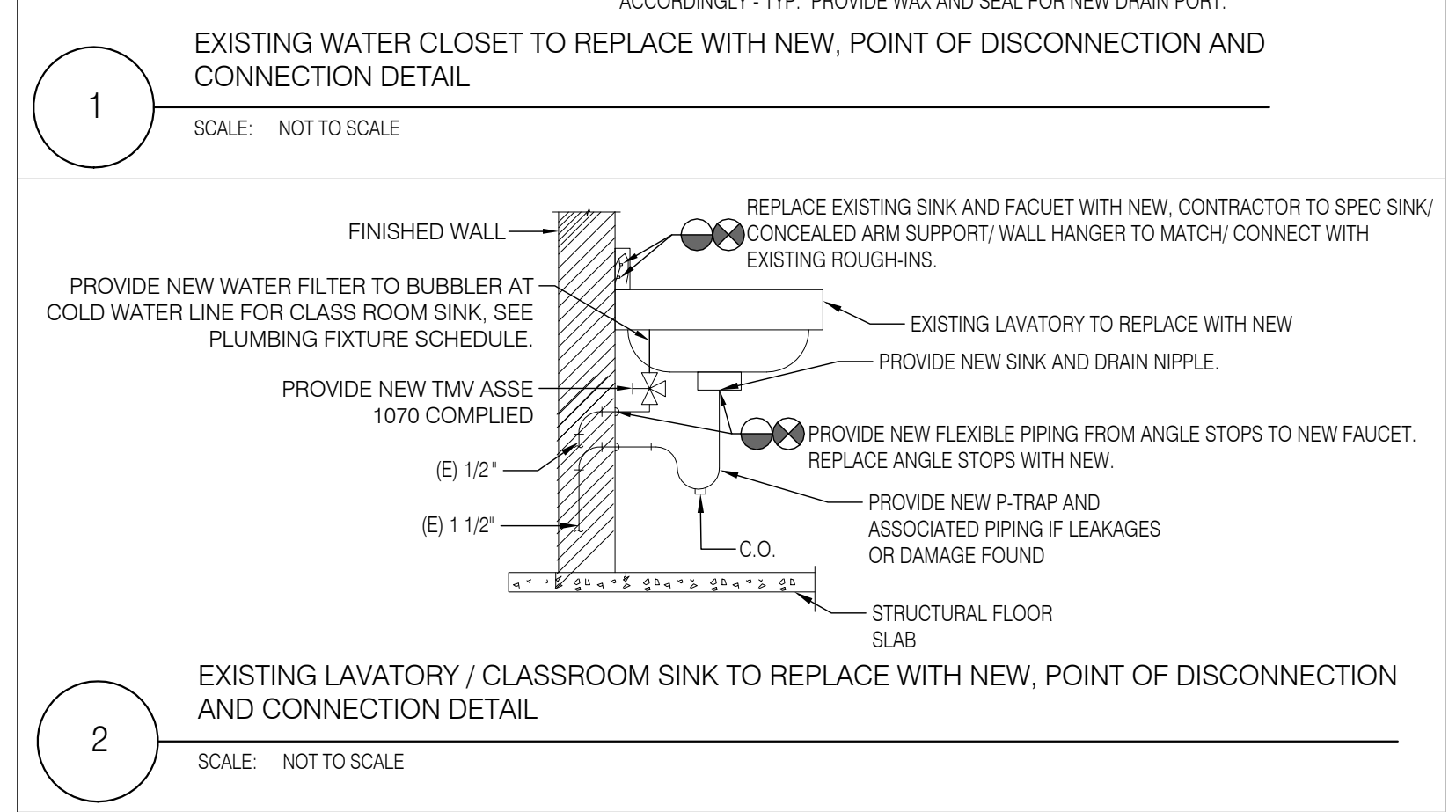
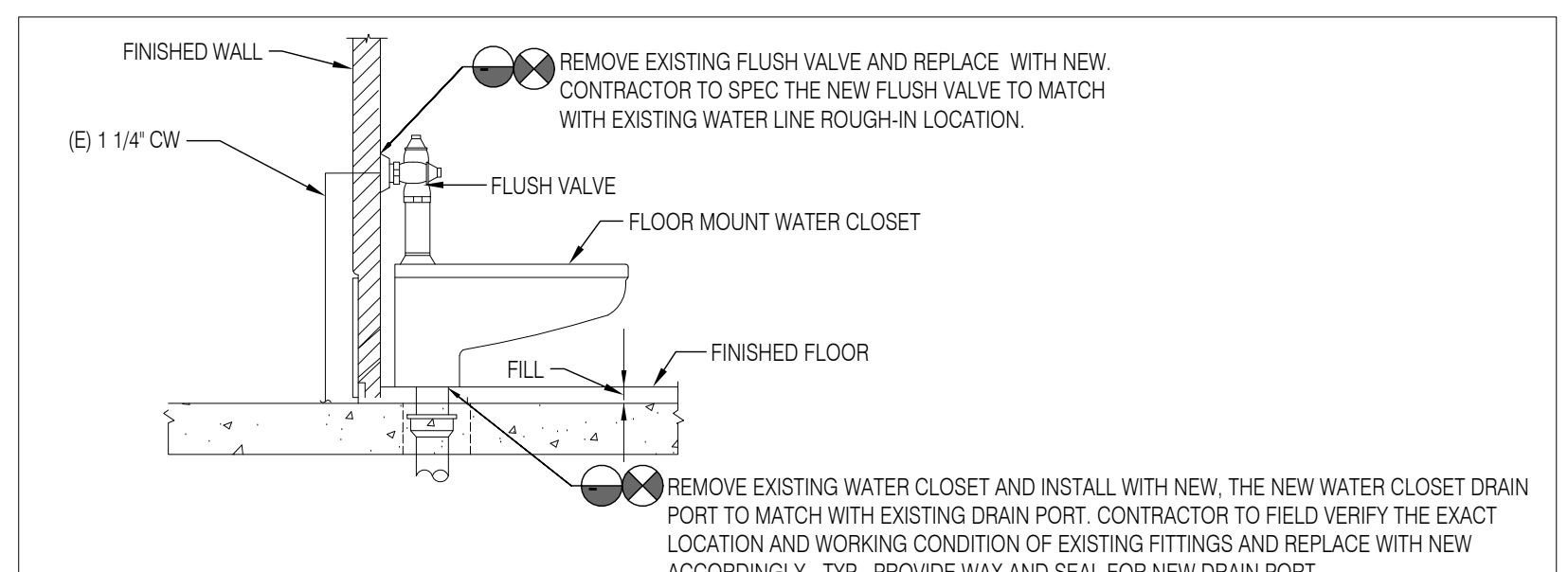
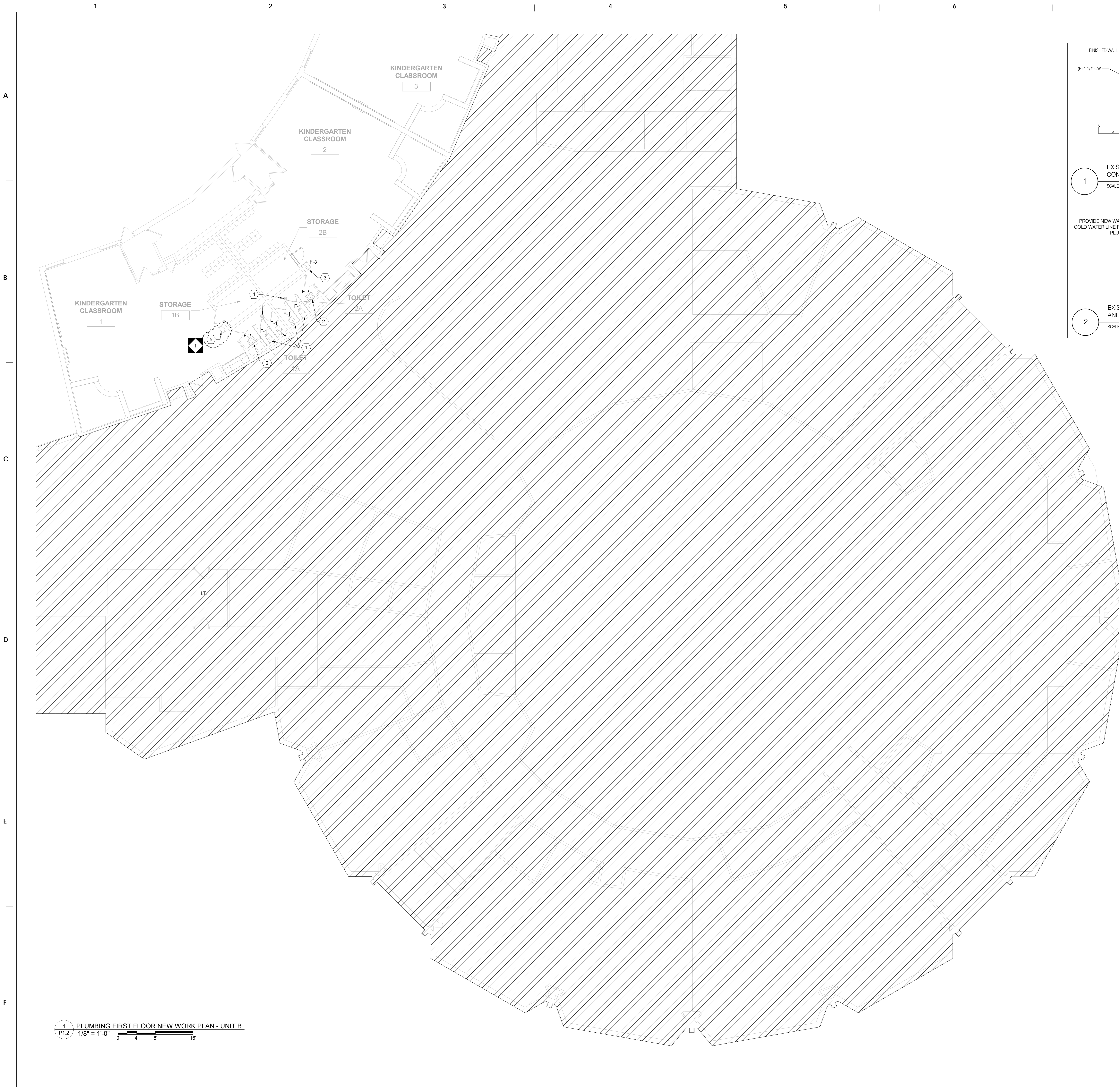
NO.	DATE	REVISION
1	03/05/2020	ADDENDUM #1

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

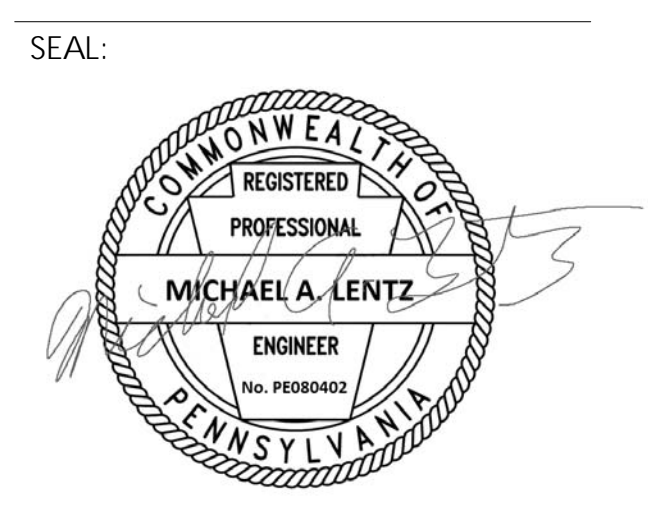
DRAWING TITLE	
PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS	
LOCATION NO.	FILE NO.
DRAWN BY NK	CHECKED BY NK
B-016C OF	2019 / 20
B-018C OF	2019 / 20
DRAWING NO. P0.1	



- ### GENERAL NOTES
- 1 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.
 - 2 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.
 - 3 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING FIXTURES AND EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
 - 4 CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES/EQUIPMENTS THAT ARE BEING REMOVED.
 - 5 CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO THEIR ORIGINAL FUNCTIONING.
 - 6 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.
 - 7 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.
 - 8 CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH-INS.

- ### SHEET KEY NOTES
- 1 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. PROVIDE NEW WAX AND SEAL AT DRAIN PORT. PROVIDE AN EXTENDER ON TOILET FLANGE TO ACCOMMODATE THE HEIGHT FOR THE NEW CERAMIC TILE.
 - 2 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 WATER CLOSET. CONTRACTOR TO CLEAN AND CLEAR FOR ANY DEBRIS AND CHECK FOR LEAKS IN EXISTING PIPING.
 - 3 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.
 - 4 EXISTING FLOOR DRAIN TO REMAIN. REPLACE GRATE WITH NEW. CONTRACTOR TO FIELD VERIFY THE LOCATION FOR FLOOR DRAIN. FOR ANY LEAKAGES AND DAMAGE FOUND, FLOOR DRAIN TO REPLACE WITH NEW OF SAME MODEL. PROVIDE AN EXTENDER ON FLOOR DRAIN FLANGE TO ACCOMMODATE THE HEIGHT FOR THE NEW CERAMIC TILE.
 - 5 EXISTING DRINKING FOUNTAIN TO REMAIN.

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



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100% DESIGN SUBMISSION
 1/22/2020

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1	03/05/2020	ADDendum #1
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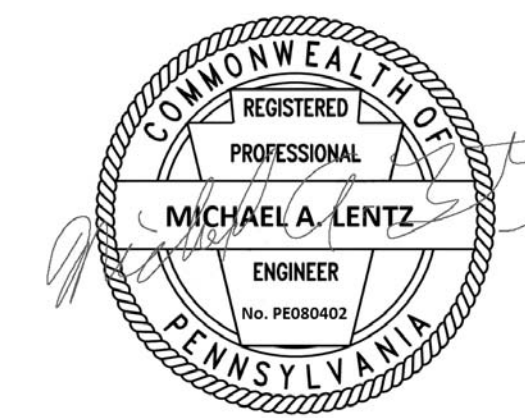
PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT B

LOCATION NO.	FILE NO.
B-016C	OF 2019 / 20
B-018C	OF 2019 / 20

DRAWING NO.
P1.2

SEAL:



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M/E/P ENGINEERS

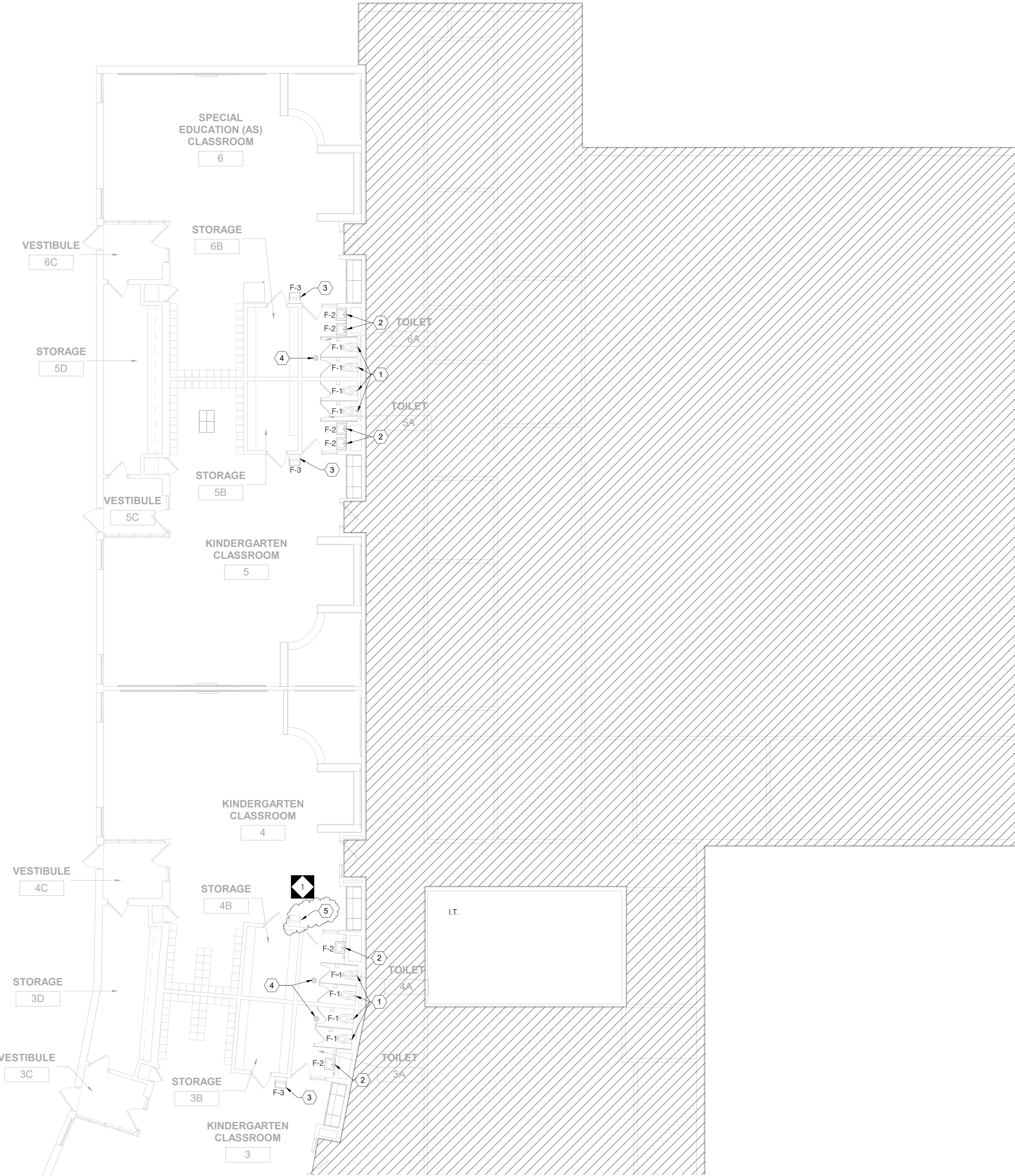
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GENERAL NOTES

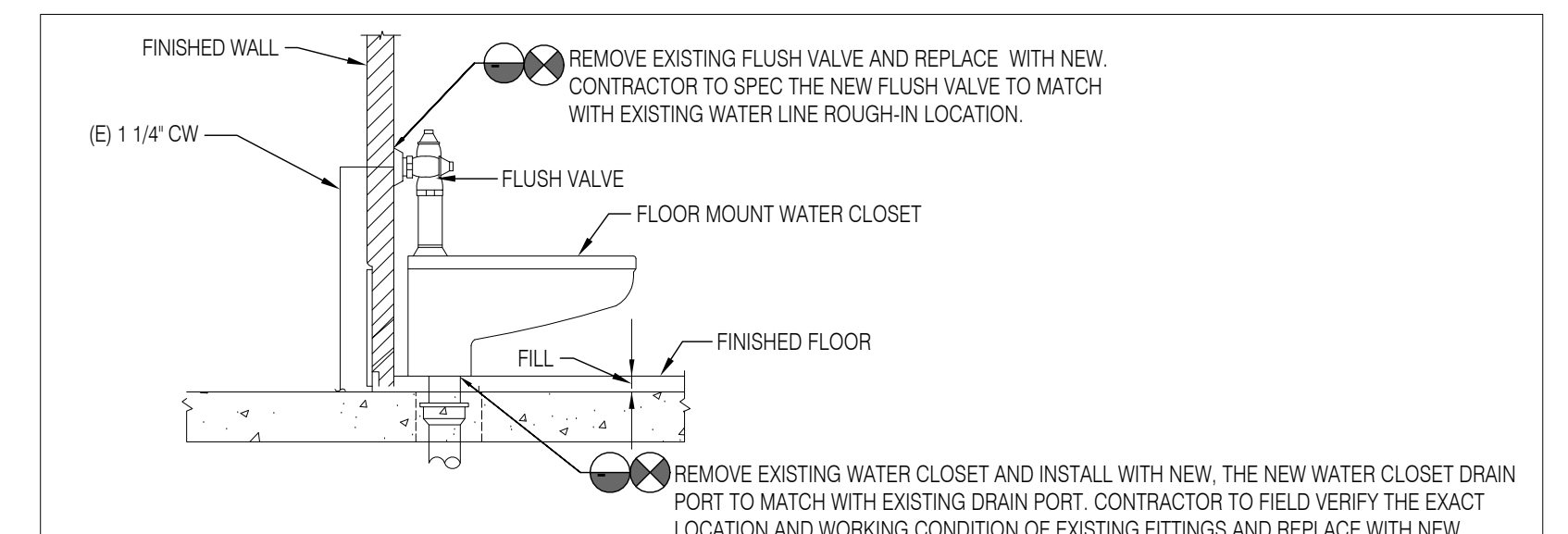
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6. ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST.
7. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ETC.) FINISHES, ETC. AND PAINT TO MATCH EXISTING FINISHES IN THE AREA OF WORK.
8. CONTRACTOR TO PROVIDE ADDITIONAL FITTINGS/TRIMS WHILE CONNECTING NEW FIXTURES TO THE EXISTING PLUMBING ROUGH-INS.

SHEET KEY NOTES

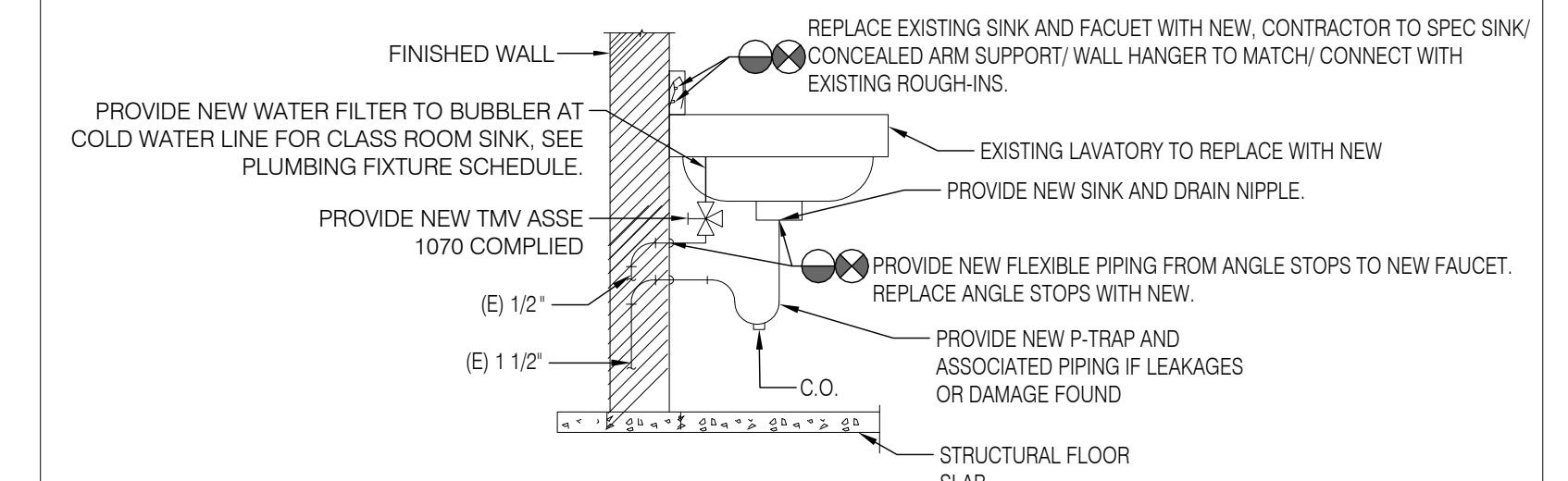
1. EXISTING WATER CLOSET AND FLUSH VALVE TO BE REPLACED WITH NEW WATER CLOSET PER PLUMBING FIXTURE SCHEDULE. CONTRACTOR TO FIELD VERIFY THE WATER CLOSET. THE NEW FIXTURE SELECTION SHOULD BE COMPATIBLE TO MOUNT/INSTALL TO EXISTING FLOOR MOUNT SPECIFICATIONS AND CARRIAGE. THE EXISTING WATER, DRAIN AND 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. PROVIDE NEW WAX AND SEAL AT DRAIN PORT.
2. 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.
3. EXISTING DRINKING FOUNTAIN TO REPLACE 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.
4. EXISTING FLOOR DRAIN TO REMAIN. REPLACE GRATE WITH NEW. CONTRACTOR TO FIELD VERIFY THE LOCATION FOR FLOOR DRAIN. FOR ANY LEAKAGES AND DAMAGE FOUND, FLOOR DRAIN TO REPLACE WITH NEW OF SAME MODEL.
5. EXISTING DRINKING FOUNTAIN TO REMAIN.



1 PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT C
P1.3 1/8" = 1'-0"



1 EXISTING WATER CLOSET TO REPLACE WITH NEW. POINT OF DISCONNECTION AND CONNECTION DETAIL
SCALE: NOT TO SCALE



2 EXISTING LAVATORY / CLASSROOM SINK TO REPLACE WITH NEW. POINT OF DISCONNECTION AND CONNECTION DETAIL
SCALE: NOT TO SCALE

100% DESIGN SUBMISSION
1/22/2020

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1	03/05/2020	ADDendum #1
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT C

LOCATION NO.	FILE NO.
DRAWN BY NK	CHECKED BY NK
B-014C OF	2019 / 20
B-018C OF	2019 / 20

DRAWING NO.
P1.3

Project Information		
Energy Code:	2018 IECC	
Project Title:	JOHN B KELLY ELEMENTARY SCHOOL	
Project Type:	Alteration	
Construction Site		
5116 PULASKI AVE PHILADELPHIA, PA 19124	Owner/Agent: CRABTREE, ROHRBAUGH & ASSOCIATES 401 E WINDING HILL ROAD MECHANICSBURG, PA PA 17055 717-458-0272 jardor@crca-architects.com	Designer/Contractor: SETTY 576 South Charles Street, SUITE BALTIMORE, MD 21201 461-309-6036 deepak.aj@setty.com

A	B	C	D
Floor Area Category	Floor Area (sq ft)	Allowed Watts / ft ²	Allowed Watts (W X C)
Classrooms (Common Space Types Classrooms/Lecture/Training)	19403	0.58	19173
Storage (Common Space Types Storage <50 sq ft)	578	0.40	260
Toilets (Common Space Types Restrooms)	384	0.85	326
Hallways (Common Space Types Corridor/Hallway <8 ft wide)	328	0.88	215
Total Allowed Watts =			19479

A	B	C	D	E
Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	# of Fixtures	Fixture Watt.	(X X C)
Classrooms (Common Space Types Classrooms/Lecture/Training 19403 sq ft) LED 1 A 2X4 ARCLINE LED TROFFER Other LED 1 C 2X4 ARCLINE LED TROFFER Other	1	54	67	3623
Storage (Common Space Types Storage <50 sq ft 578 sq ft) LED 2 B 4 LINEAR WAVESTREAM SYSTEM Other	1	10	44	439
Toilets (Common Space Types Restrooms 384 sq ft) LED 2 B 4 LINEAR WAVESTREAM SYSTEM Other	1	8	44	353
Hallways (Common Space Types Corridor/Hallway <8 ft wide 328 sq ft) LED 1 C 2X4 ARCLINE LED TROFFER Other	1	6	67	403
Total Proposed Watts =			11560	

Interior Lighting PASSES

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date

ELECTRICAL GENERAL NOTES

- INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, ETC.
 - A. LOCAL CODES AND ORDINANCES
 - B. PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC)
 - C. PHILADELPHIA EXISTING BUILDING CODE (2018)
 - D. INTERNATIONAL BUILDING CODE (IBC 2018)
 - E. PHILADELPHIA ENERGY CONSERVATION CODE
 - F. PHILADELPHIA FIRE CODE
 - G. PHILADELPHIA ELECTRICAL CODE
 - H. PHILADELPHIA PERFORMANCE CODE
 - I. PENNSYLVANIA DEPARTMENT OF EDUCATION REGULATION
 - J. NATIONAL ELECTRICAL CODE (NEC 2017) NFPA 70
- BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT, AND SPACE CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT HIM FROM INSTALLING HIS EQUIPMENT IN THE MANNER SPECIFIED OR AS SHOWN IN CONTRACT DOCUMENTS TEN BUSINESS DAYS PRIOR TO SUBMISSION OF BIDS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY AFFECT HIS WORK.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
- PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
- CONTRACTOR TO PROVIDE SUFFICIENT NOTICE TO THE OWNERS REPRESENTATIVE PRIOR TO ANY WORK TO ALLOW ADEQUATE TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
- CONTRACTOR TO INCLUDE IN THEIR SCOPE ALL LABOR, MATERIALS, SERVICES, APPARATUS AND SHOP DRAWINGS IN ADDITION TO THE CONTRACT DOCUMENTS AS REQUIRED TO COMPLY WITH ALL APPLICABLE GOVERNING LAWS, CODES AND JURISDICTION REQUIREMENTS. PROVIDE ELECTRICAL EQUIPMENT WITH ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL PRODUCTS, MATERIALS AND PROCESSES INSTALLED IN THE SPACE CONTAINS NO ASBESTOS OR PCB.
- DELIVER PRODUCTS TO PROJECT SITE IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS, AND OTHER INFORMATION NEEDED FOR DISTINCT IDENTIFICATION; ADEQUATELY PACKAGED AND PROTECTED TO PREVENT DAMAGE DURING SHIPMENT, STORAGE, AND HANDLING. PROTECT STORED EQUIPMENT AND MATERIALS FROM DAMAGE. COMPLY WITH MANUFACTURERS RIGGING AND MOVING INSTRUCTIONS FOR UNLOADING EQUIPMENT AND MOVING INTO FINAL LOCATION.
- ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. COORDINATE WITH EQUIPMENT VENDOR TO VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
- ALL EQUIPMENT SUCH AS RELAYS, SWITCHES, PANELS, AND OTHER APPURTENANCES SHALL HAVE IDENTIFICATION PLATES OF BLACK LAMINATED PLASTIC WITH 1/2" WHITE LETTERS. ALL JUNCTION BOXES IN CEILING CAN BE MARKED WITH BLACK PERMANENT MARKER ON COVER PLATES AS PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
- ALL CONDUCTORS SHALL BE IDENTIFIED. ALL WIRING DEVICES SHALL BE USED WITH TYPED LABEL ON THE COVER PLATE IDENTIFYING THE PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
- CONTROL WIRING SHALL BE TAGGED AT EACH END AND TERMINATED WHERE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- ALL EQUIPMENT SHALL BE 120V LISTED.
- ALL CONNECTIONS TO DEVICES SHALL BE TAPED WITH SCOTCH 33 ELECTRICAL TAPE.
- ALL EQUIPMENT SHALL BE 120V LISTED.
- ALL DEVICES, FIXTURES AND MATERIALS INSTALLED IN A PLENUM RATED ENVIRONMENT SHALL BE LISTED FOR THE APPLICATION.
- ALL MATERIALS AND WORK SHALL BE ACCORDING TO PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED.
- IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE OR IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION, ELEVATION, HANGING HEIGHTS AND DETAILS OF ALL LIGHT FIXTURES AND DEVICES. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- VERIFY DOOR SWINGS BEFORE INSTALLING LIGHT SWITCHES.
- MAINTAIN INTEGRITY OF THE FIRE RATED CONSTRUCTION WHERE CONDUITS PASS THROUGH WALLS AND FLOORS.
- UNLESS OTHERWISE NOTED ON PLAN, LIGHTING FIXTURES SHALL BE INDIVIDUALLY SUPPORTED FROM THE CEILING SLAB ABOVE OR SUPPORTED BY THE CEILING FRAMING MEMBERS PROVIDED THE SUSPENDED CEILING IS INSTALLED IN ACCORDANCE WITH NEC.
- INSTALLATION OF EQUIPMENT, COMPONENTS AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF EQUIPMENT MANUFACTURER.
- CONTRACTORS SCOPE OF WORK INCLUDES TRACING ALL EXISTING CIRCUITS IN THE CONSTRUCTION AREA BACK TO SOURCE. IF REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AFFECTS ANY EXISTING CIRCUITS, CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS, WIRING, CONDUIT, ETC. REQUIRED TO RECONNECT EXISTING TO REMAIN ELECTRICAL EQUIPMENT BACK TO SOURCE.
- THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.
- ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM SIZE SHALL BE #10 AWG. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTOR SHALL HAVE THHN/THWN INSULATION OR AS NOTED.
- CONTRACTOR TO PROVIDE ALL LIGHT FIXTURE AND EQUIPMENT WITH INTEGRAL OR REMOTE MOUNTED ACCESSORY DEVICES WITH ALL NECESSARY COMPONENTS, BRANCH CIRCUIT WIRING AND CONDUITS TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT.
- GANG ALL SWITCHES SHOWN TO BE INSTALLED AT SAME LOCATION UNDER A SINGLE COVER PLATE.
- ALL BACK BOXES INSTALLED IN DRY WALL PARTITION SHALL BE STAGGERED. BACK-TO-BACK INSTALLATION IS NOT PERMITTED.
- PROVIDE ACCESS PANELS IN ALL INACCESSIBLE JUNCTION BOXES AS REQUIRED BY THE N.E.C.
- CONTRACTOR TO COORDINATE ELECTRICAL WORK TO AVOID INTERFERENCE BETWEEN ALL OTHER TRADES.
 - A. DETERMINE INTERFERENCE BEFORE WORK IS FABRICATED OR INSTALLED. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL DETAILS OF WORK AND WORKING CONDITIONS AND COORDINATE WORK DURING PRELIMINARY STAGES TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND NO REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.
 - B. WHERE JOB CONDITIONS REQUIRE REASONABLE DEVIATIONS FROM CONTRACT DOCUMENTS, MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER, AFTER OBTAINING APPROVAL OF ARCHITECT.
 - C. PROVIDE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL, AND TESTING OF ELECTRICAL EQUIPMENT. APPROVED DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY.
 - D. KEEP CONDUITS, WIRERAYS AND SIMILAR ITEMS AS CLOSE AS POSSIBLE TO CEILING, WALLS AND COLUMNS IN ORDER TO TAKE UP MINIMUM AMOUNT OF SPACE.
 - E. PROVIDE OFFSETS, FITTINGS AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH REQUIREMENTS OF COORDINATION WITHOUT ADDITIONAL EXPENSE TO OWNER.
 - F. PROVIDE ACCESS TO AND CLEARANCES AROUND EQUIPMENT AS REQUIRED BY THE N.E.C.
- TESTING:
 - A. TEST AND ADJUST EQUIPMENT AND SYSTEMS INSTALLED AND DEMONSTRATE PROPER OPERATION TO OWNERS REPRESENTATIVE. NO EQUIPMENT SHALL BE TESTED OR OPERATED FOR ANY PURPOSE UNTIL IT HAS BEEN FULLY PREPARED FOR OPERATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
 - B. SHOW, BY DEMONSTRATION IN SERVICE, THAT ALL CIRCUITS AND DEVICES ARE IN GOOD OPERATING CONDITION. EACH PIECE OF EQUIPMENT AND COMPONENT OF THE ELECTRICAL SYSTEM SHALL FUNCTION NOT LESS THAN FIVE TIMES IN COURSE OF THE ACCEPTANCE TESTS.
 - C. FUNCTIONAL TESTING FOR LIGHTING CONTROL SYSTEM SHALL BE IN ACCORDANCE WITH IECC. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION, PER CONSTRUCTION DOCUMENTS AND FACTORY INSTRUCTIONS.

BRANCH CIRCUIT WIRE SIZING

(20 AMPERE SINGLE PHASE CIRCUITS) (1) (4)		
LENGTH OF RUN (5)	HOME RUN SIZE (2)	CIRCUIT WIRE SIZE (3)
120 VOLT SYSTEM		
0 - 50'	#12	#12
50 - 100'	#10	#12
100 - 175'	#8	#10
175 - 300'	#6	#8
208 OR 240 VOLT SYSTEM		
0 - 125'	#12	#12
125 - 200'	#10	#12
200 - 300'	#8	#10

WIRE SIZING CHART NOTES:

- WIRING FOR BRANCH CIRCUITS PROTECTED BY 20 AMPERE OVERCURRENT PROTECTIVE DEVICES SHALL BE SIZED IN ACCORDANCE WITH THE ABOVE TABLE(UN). WIRING FOR OTHER BRANCH CIRCUITS SHALL BE SIZED AS SHOWN ON DRAWINGS. EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED THE SAME AS THE HOMERUN/CIRCUIT CONDUCTOR.
- HOMERUN LENGTH SHALL BE FROM THE PANELBOARD TO THE CLOSEST OUTLET, DEVICE OR FIXTURE ON THE CIRCUIT.
- CIRCUIT LENGTH SHALL BE FROM THE CLOSEST TO THE FARTHEST OUTLET, DEVICE OR FIXTURE.
- PROVIDE CODE COMPLIANT MEANS OF REDUCING CONDUCTOR SIZE AS NEEDED FOR TERMINATIONS. PROVIDE ADDITIONAL JUNCTION BOXES, SPLICES, LUGS, ETC. AS NEEDED.
- LENGTH OF RUN REFERS TO THE LENGTH OF THE HOMERUN OR THE LENGTH OF THE CIRCUIT, (WITH EACH DEFINED IN NOTES 2 & 3).

ELECTRICAL GENERAL DEMOLITION NOTES

- GENERAL:
 - A. THE GENERAL EXTENT OF EXISTING ELECTRICAL WORK TO BE DISMANTLED AND REMOVED OR REUSED ARE INDICATED ON THE DRAWINGS.
 - B. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL ACCESSORIES AND COMPONENTS INCLUDING BUT NOT LIMITED TO HANGERS, WIRING, CONDUIT, BOXES AND ALL ADDITIONAL MISCELLANEOUS ITEMS RELATED TO THE EXISTING EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE OF SUPPLY IN EXISTING CIRCUITS WHICH ARE TO BE DEMOLISHED. UNLESS SPECIFICALLY INDICATED, NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.
 - C. ABANDON ALL CONDUITS CONCEALED IN CONCRETE WALLS OR SLABS. REMOVE ALL WIRING FROM ABANDONED CONDUITS BACK TO SOURCE OF SUPPLY.
 - D. ALL EXISTING ABANDONED RECESSED EMPTY BACKBOXES LOCATED IN WALL WITHIN THE SCOPE OF WORK SHALL BE PROVIDED WITH NEW COVER PLATES, PROVIDE TOUCH-UP PAINT AND FINISH PAINTING AS REQUIRED IN THE AREAS AS AFFECTED. NEW FINISH AND QUALITY TO MATCH ADJACENT AREAS CONSTRUCTION.
- DISPOSAL OF DEMOLITION:
 - A. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. NOTIFY THE BUILDING OWNER PRIOR TO DISPOSAL OF DEMOLISHED MATERIALS TO ALLOW SALVAGE OF ANY USABLE MATERIALS. AFTER INSPECTION FROM THE OWNERS REPRESENTATIVE, ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE WITH DISPOSAL IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND REGULATIONS.
- PROTECTION:
 - A. PROTECT FROM DAMAGE ALL EXISTING EQUIPMENT, DEVICES AND MATERIALS TO REMAIN. ANY EXISTING MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
- TERMINATION AND PATCHING:
 - A. DISCONNECT EXISTING EQUIPMENT AND DEVICES WITH ASSOCIATED ACCESSORIES, CONDUIT AND WIRING BACK TO SOURCE OF SUPPLY.
 - B. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING THE CONSTRUCTION PROCESS, PATCH THE CUT OR DAMAGED AREAS TO MATCH THE ADJACENT CONSTRUCTION.
 - C. THE CONTINUITY OF ALL EXISTING CONDUITS AND FEEDERS SERVICING AREAS AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED. MODIFY THE EXISTING CIRCUITS IF REQUIRED IN ORDER TO MAINTAIN THE EXISTING CIRCUITRY.

GENERAL LIGHTING FIXTURE SCHEDULE NOTES

- PROVIDE FIXTURES WITH ALL NECESSARY ACCESSORIES TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
- COORDINATE WITH ARCHITECT FOR ALL FIXTURE FINISHES, LENS ACCESSORIES, CEILING TYPE AND MOUNTING REQUIREMENTS.
- ALL DIMMER SWITCHES MUST BE COMPATIBLE WITH DIMMABLE DRIVERS. CONTRACTOR TO ENSURE ALL DIMMER SWITCHES ARE RATED TO ACCOMMODATE THE LOAD REQUIREMENTS OF ASSOCIATED LIGHTING CIRCUIT.
- ALL APPLICABLE LIGHT FIXTURES, SWITCHES, DRIVERS AND ASSOCIATED ACCESSORIES MUST BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM SERVING THE SPACE.

INTERIOR LIGHTING FIXTURE SCHEDULE									
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTAGE	LUMENS	COLOR RENDERING INDEX (CRI)	REMARKS
A		2X4 ARCLINE LED TROFFER	EATON - METALUX	24NLNG-LD5-74-UNV-L835-CD1-U	61W LED	UNV	7508	80	N/A
B		4' LINEAR WAVESTREAM SYSTEM, L835	EATON - METALUX	4WSL-LD2-45-UNV-L835-CD1-U	39.9W LED	UNV	4901	80	N/A
F		2X4 ARCLINE LED TROFFER	EATON - METALUX	24NLNG-LD5-55-UNV-L835-CD1-U	41.11W LED	UNV	5544	80	N/A

ELECTRICAL LEGEND

(STANDARD SYMBOLS ONLY, ALL SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)

	1. REFER TO DETAIL ON DRAWING E7.1 FOR TYPICAL DEVICE MOUNTING HEIGHTS.
	TYPICAL INTERIOR LIGHTING FIXTURES
	WALL-FLOOR MOUNTED DUPLEX OR QUAD RECEPTACLE. 20A, 125V, NEMA 5-20R OUTLETS MAY HAVE THE FOLLOWING SUBSCRIPTS: P4- : PANEL NAME AND CIRCUIT NUMBER SERVING OUTLETS T : TAMPER RESISTANT OUTLETS S : SURFACE MOUNTED GFI : GROUND FAULT INTERRUPTER AC : AIR CONDITIONER : ABOVE COUNTER
	WALL-FLOOR MOUNTED SPECIAL PURPOSE OUTLET. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT VENDOR
	WALL MOUNTED DATA OUTLET, PROVIDE PLENUM RATED CAT 6 CABLE IN 3/4" EMT CONDUIT. UN. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. OUTLETS MAY HAVE THE FOLLOWING SUBSCRIPTS: AV : AUDIO VISUAL
	WALL MOUNTED TELEPHONE OUTLET
	WIRESLESS ACCESS POINT
	20A 1P, 120V SINGLE POLE TOGGLE SWITCH. SWITCHES MAY HAVE THE FOLLOWING SUBSCRIPTS: 3 : 3-WAY SWITCH P : SWITCH WITH PILOT LIGHT F : FAN CONTROL SWITCH
	LOW VOLTAGE 2 BUTTON SWITCH WITH RAISE-LOWER, CONTROLLING LIGHT FIXTURES IN ZONE "a".
	LOW VOLTAGE 2 BUTTON SWITCH WITH RAISE-LOWER, CONTROLLING LIGHT FIXTURES IN ZONE "b".
	MOMENTARY CONTACT SWITCH, DEVICES MAY HAVE THE FOLLOWING SUBSCRIPTS: 3 : 3-WAY SWITCH
	MOTOR RATED SWITCH WITH THERMAL OVERLOAD CURRENT PROTECTION, MOUNTED @ 48" AFF OR UNIT MOUNTED
	WALL/CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR SWITCH CONFIGURED AS AUTO-ON, AUTO OFF. CONFIGURE TIME-OUT SETTING FOR 15 MINUTES UNLESS OTHERWISE NOTED. DEVICES MAY HAVE THE FOLLOWING SUBSCRIPTS: 2 : DUAL SWITCH D : DIMMER SWITCH a,b : LIGHTING ZONE(S) CONTROLLED BY SENSOR
	WALL/CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR SWITCH CONFIGURED AS AUTO-ON, AUTO OFF. CONFIGURE TIME-OUT SETTING FOR 15 MINUTES UNLESS OTHERWISE NOTED. DEVICES MAY HAVE THE FOLLOWING SUBSCRIPTS: 2 : DUAL SWITCH D : DIMMER SWITCH a,b : LIGHTING ZONE(S) CONTROLLED BY SENSOR
	CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY VACANCY SENSOR SWITCH CONFIGURED AS MANUAL ON, AUTO OFF. CONFIGURE TIME-OUT SETTING FOR 15 MINUTES FOR CLASSROOMS ONLY. a,b : LIGHTING ZONE(S) CONTROLLED BY SENSOR
	ROOM CONTROLLER. BASIS OF DESIGN: GREENGATE - MODEL WRC3D-PL
	KEYED DRAWING NOTE
	120/240V ELECTRICAL PANEL
	NON-FUSIBLE DISCONNECT SWITCH
	SURFACE MOUNTED SPECIAL PURPOSE RECEPTACLE WITH FUSED DISCONNECT SWITCH
	WALL/CEILING MOUNTED PUBLIC ADDRESS SPEAKER
	WALL MOUNTED WIRED CLOCK SYSTEM OUTLET
	WALL MOUNTED WIRELESS CLOCK BATTERY OPERATED. SEE SPECIFICATION 2753913
	WALL MOUNTED BLANK BOX
	WALL MOUNTED COAX OUTLET
	WALL MOUNTED CATV OUTLET

ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS)

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFB	ABOVE FINISHED FLOOR
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CO	COPPER
D	EXISTING TO BE DEMOLISHED
DFA	DOWN FROM ABOVE
DISC. SW.	DISCONNECT SWITCH
DWG.	DRAWING
E. EX	EXISTING TO REMAIN
EM	DEVICE ON EMERGENCY CIRCUIT
EMT	ELECTRICAL METALLIC TUBING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
G	GROUND
GF/GFCI	GROUND FAULT INTERRUPTER
GRG	GALVANIZED RESISTIVE CONDUIT
HP	HORSE POWER
KVA	KILOVOLT-AMPS
KW	KILOWATT
M	MAIN
MCB	MAIN CIRCUIT BREAKER
MCO	MAIN LUGS ONLY
MCP	MAIN DISTRIBUTION PANEL
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NFSS	NON FUSED SAFETY SWITCH
NTS	NOT TO SCALE
P	POLE
PH, #	PHASE
PNL	PANEL
R	RELOCATED
RR	REMOVE AND RELOCATE
S/N	SOLID NEUTRAL
SWBD	SWITCHBOARD
XFMR	TRANSFORMER
TYP.	TYPICAL
UNO	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHERPROOF

LEGEND

-----	ITEMS SHOWN DASHED INDICATE EXISTING TO BE REMOVED OR RELOCATED
_____	ITEMS SHOWN LIGHT LINES INDICATE EXISTING TO REMAIN
_____	ITEMS SHOWN THICK LINES INDICATE NEW TO BE PROVIDED

LIGHT FIXTURE SUBSCRIPT

	HP-2 LIGHT FIXTURES MAY BE INDICATED WITH FOLLOWING SUBSCRIPTS:
	A UPPER CASE SUBSCRIPT INDICATES LIGHT FIXTURE IDENTIFICATION TAG
	a LOWER CASE SUBSCRIPT INDICATES LIGHTING ZONE IDENTIFICATION
	HP-2 PANEL NAME AND CIRCUIT NUMBER SERVING LIGHT FIXTURE

ELECTRICAL - DRAWING LIST

SHEET	DRAWING	TITLE
1	E0.1	ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	ED.1	ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT A
3	ED.2	ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT B
4	ED.3	ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT C
5	ED.4	ELECTRICAL SECOND FLOOR DEMOLITION PLAN
6	E1.1	ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT A
7	E1.2	ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT B
8	E1.3	ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT C
9	E1.4	ELECTRICAL SECOND FLOOR LIGHTING PLAN
10	E2.1	ELECTRICAL FIRST FLOOR POWER PLAN - UNIT A
11	E2.2	ELECTRICAL FIRST FLOOR POWER PLAN - UNIT B
12	E2.3	ELECTRICAL FIRST FLOOR POWER PLAN - UNIT C
13	E2.4	ELECTRICAL SECOND FLOOR POWER PLAN
14	E5.1	ELECTRICAL PARTIAL POWER & DATA RISER DIAGRAMS
15	E6.1	ELECTRICAL PANEL SCHEDULES
16	E7.1	ELECTRICAL DETAILS

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 01/22/2020

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1	03/05/2020	ADDENDUM #1

SCHOOL & LOCATION
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PROJECT TITLE

CLASSROOM MODERNIZATION

DRAWING TITLE

ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS



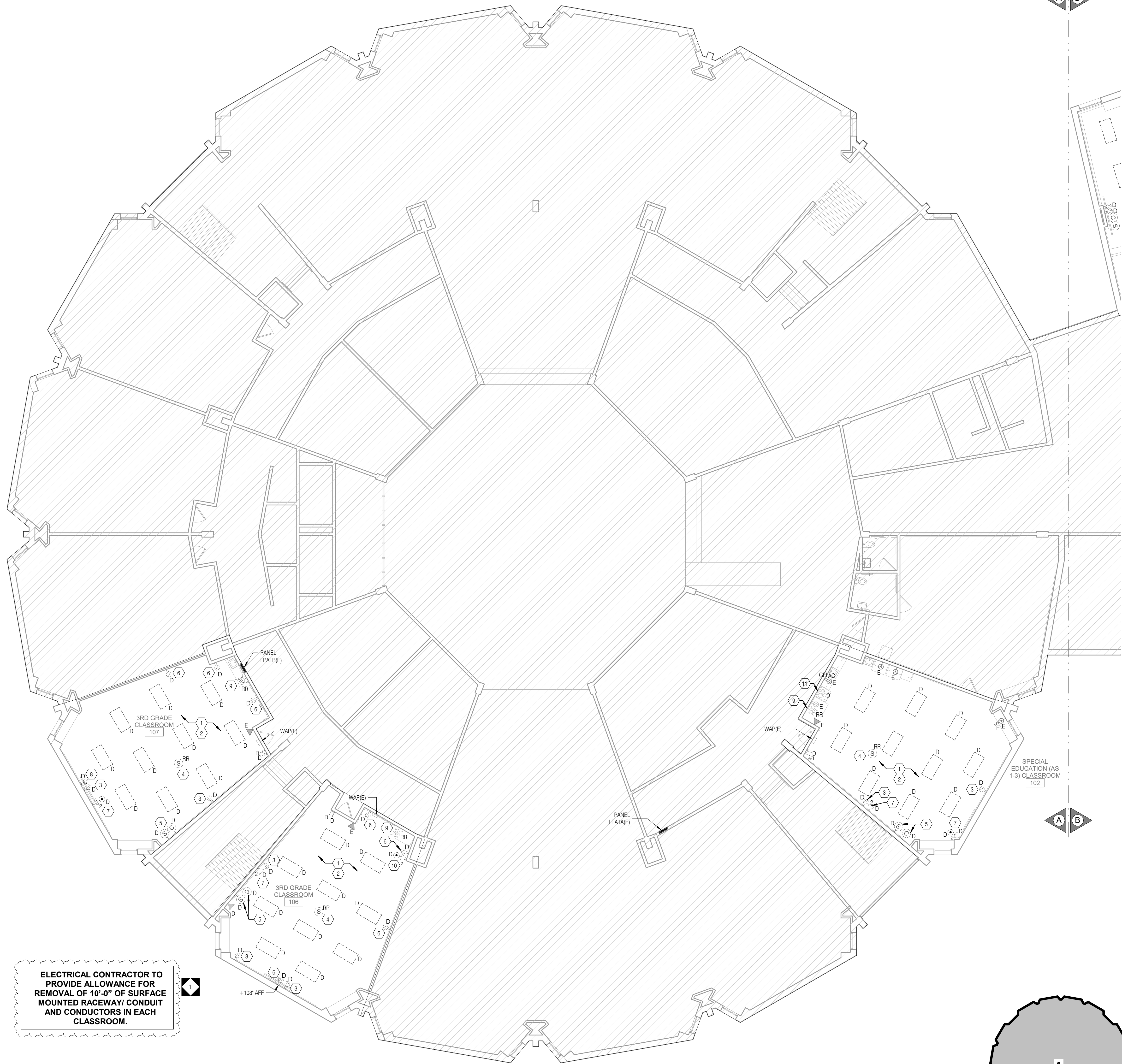
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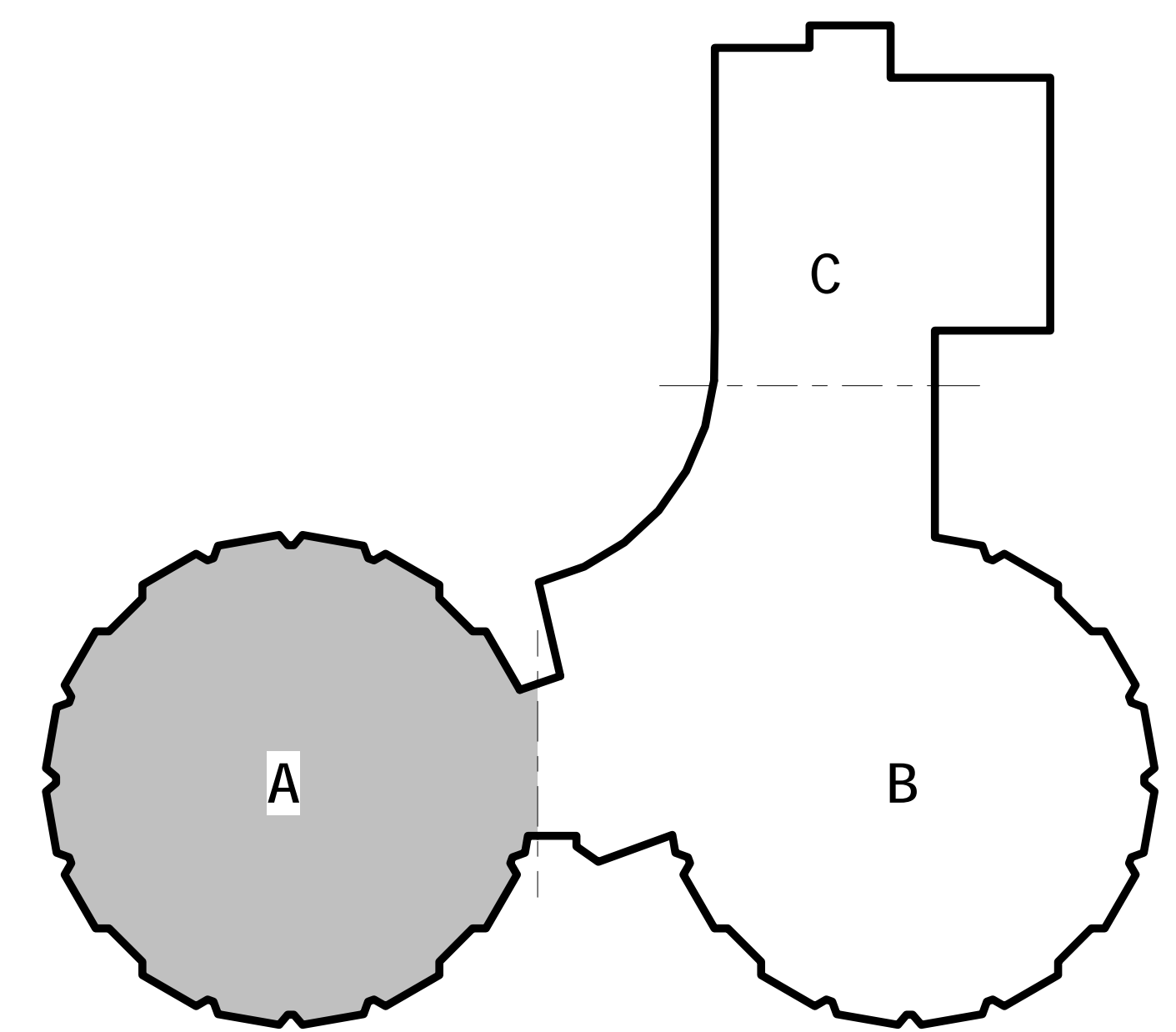
- GENERAL SHEET NOTES**
- REFER TO DRAWING E01 FOR ELECTRICAL GENERAL NOTES. GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
 - ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
 - THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

- KEYED SHEET NOTES**
- ALL LIGHTING FIXTURES, CONTROLS AND ASSOCIATED WIRING TO BE REMOVED BACK TO SOURCE OF TERMINATION SERVING THIS CLASSROOM. PREPARE FOR CONNECTION OF EXISTING CIRCUIT TO THE NEW FIXTURES UNDER NEW WORK. CONTRACTOR SHALL REUSE THE EXISTING WIRING AND CONDUIT IN PLACE WHERE POSSIBLE. PROVIDE NEW WIRING/CONDUIT AS REQUIRED.
 - DISCONNECT AND REMOVE EXISTING FIXTURE, ASSOCIATED SWITCH AND COVERPLATE TO ACCOMMODATE NEW FIXTURE AND CONTROL. CONTRACTOR SHALL REUSE THE EXISTING WIRING AND CONDUIT IN PLACE. PREPARE FOR CONNECTION OF EXISTING CIRCUIT TO THE NEW FIXTURE UNDER NEW WORK.
 - DISCONNECT AND REMOVE EXISTING RECEPTACLE WITH COVERPLATE IN THIS CLASSROOM. EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - ALL EXISTING CEILING MOUNTED PUBLIC ADDRESS SPEAKERS TO BE REMOVED AND REINSTALLED IN PLACE TO ACCOMMODATE NEW CEILING. CONTRACTOR TO FIELD TEST FUNCTIONALITY AND REPLACE IF REQUIRED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - COMBINATION OF WIRED SYNCHRONOUS CLOCK AND ABANDONED PUBLIC ADDRESS SPEAKER SYSTEM ASSEMBLY TO BE DEMOLISHED ALONG WITH ASSOCIATED CONDUIT/RACEWAY AND WIRING WITH THIS SYSTEM TO ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK PLATE AS NEEDED. PATCH AND PAINT AROUND THE BACKBOX AND ALONG THE REMOVED CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING NEW WALL CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - DISCONNECT AND REMOVE EXISTING RECEPTACLE, ASSOCIATED WIRING AND CONDUIT/RACEWAY. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
 - DISCONNECT AND REMOVE EXISTING DATA/CATV OUTLET AND COVERPLATE ALONG WITH ASSOCIATED DATA/CATV CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - DISCONNECT AND REMOVE EXISTING ABANDONED COAX OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK COVER PLATE.
 - EXISTING FIRE ALARM DEVICE TO BE REMOVED AND REINSTALLED AT NEW HEIGHT IN CONFLICT WITH NEW TACK BOARD AND NEW WALL FINISH. REFER TO ARCHITECTURAL AND ELECTRICAL NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
 - DISCONNECT AND REMOVE EXISTING DATA/CATV OUTLET, ASSOCIATED WIRING AND CONDUIT/RACEWAY. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
 - DISCONNECT AND REMOVE EXISTING SPECIALTY RECEPTACLE SERVING EXISTING RANGE AND COVERPLATE, EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.



ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.

1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN - AREA A
ED1.1 1/8" = 1'-0"



KEY PLAN

100% DESIGN SUBMISSION
01/22/2020

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SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT A

LOCATION NO.	FILE NO.
DRAWN BY	CRA NO. 3223
NS	CHECKED BY
	DAT
B-014C	OF 2019 / 20
B-018C	OF 2019 / 20

DRAWING NO.
ED1.1

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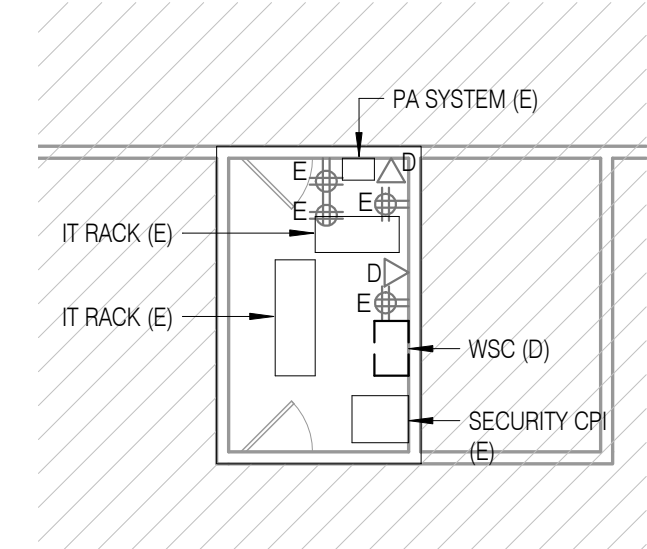
GENERAL SHEET NOTES

1. REFER TO DRAWING ED 1 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS.
2. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
3. ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
4. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

KEYED SHEET NOTES

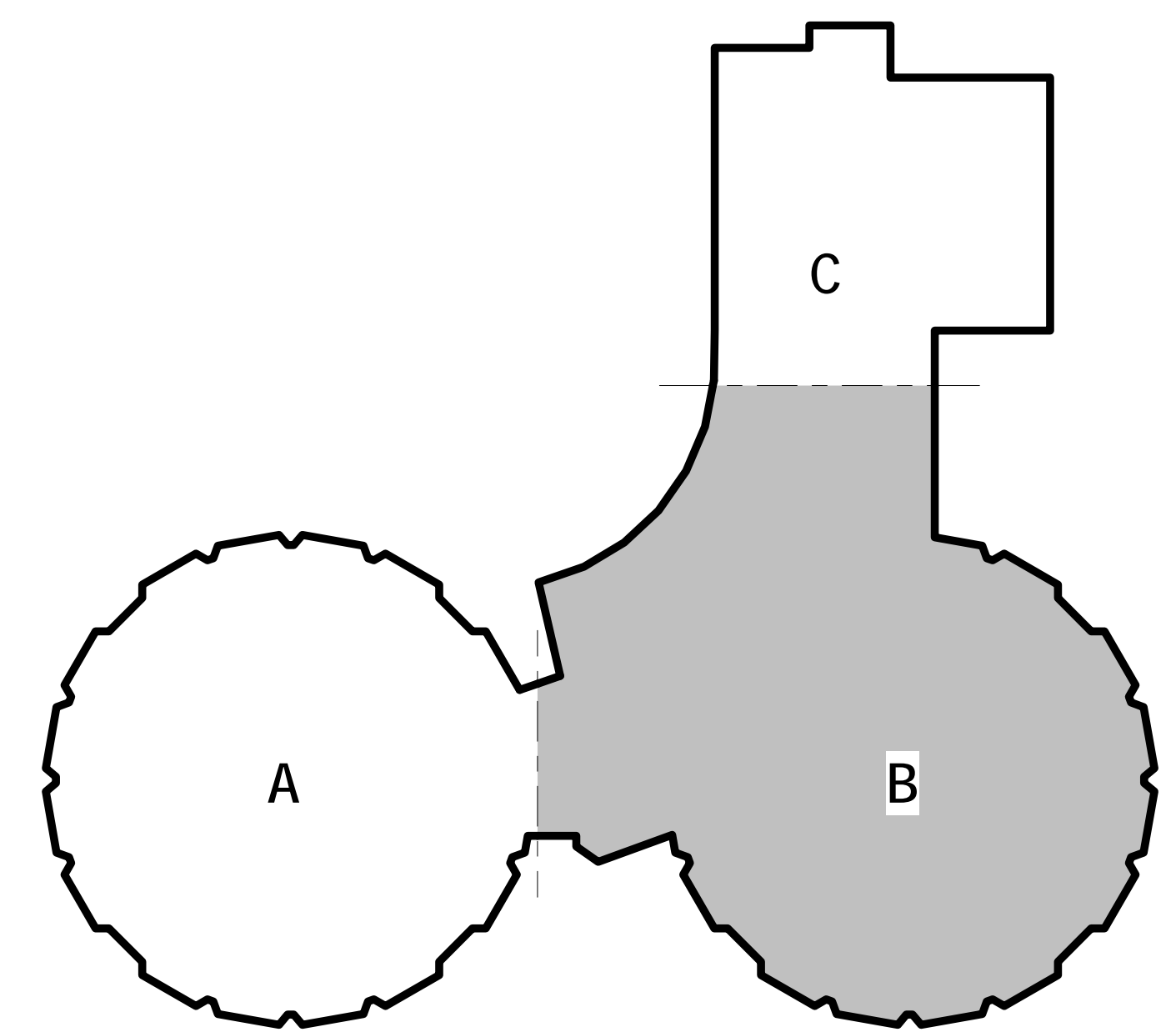
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3. DISCONNECT AND REMOVE EXISTING RECEPTACLE WITH COVERPLATE, EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
4. ALL EXISTING CEILING MOUNTED PUBLIC ADDRESS SPEAKERS TO BE REMOVED AND REINSTALLED IN PLACE TO ACCOMMODATE NEW CEILING. CONTRACTOR TO FIELD TEST FUNCTIONALITY AND REPLACE AS REQUIRED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
5. DISCONNECT AND REMOVE SYNCHRONOUS CLOCK, ASSOCIATED CONDUIT/RACEWAY AND WIRING WITH THIS SYSTEM TO ITS ENTIRETY WITHIN THE ROOM. PATCH AND PAINT ALONG THE REMOVED CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
6. EXISTING FIRE ALARM DEVICE TO BE REMOVED AND REINSTALLED AT NEW HEIGHT IN CONFLICT WITH NEW TACK BOARD AND NEW WALL FINISH. REFER TO ARCHITECTURAL AND ELECTRICAL NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
7. DISCONNECT AND REMOVE EXISTING DATA/CATV OUTLET AND COVERPLATE ALONG WITH ASSOCIATED DATA/CATV CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
8. ALL EXISTING CEILING MOUNTED SMOKE DETECTORS TO BE REMOVED AND REINSTALLED IN PLACE TO ACCOMMODATE NEW CEILING. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
9. DISCONNECT AND REMOVE EXISTING RECEPTACLE, ASSOCIATED WIRING AND CONDUIT/RACEWAY. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING WALL CONSTRUCTION.
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11. DISCONNECT AND REMOVE EXISTING MOTOR RATED SWITCH SERVING EXHAUST FAN WITH COVERPLATE. EXISTING CIRCUIT TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.

ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.



2 ELECTRICAL FIRST FLOOR DEMOLITION PLAN - IT ROOM
ED1.2 1/8" = 1'-0"

1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN - AREA B
ED1.2 1/8" = 1'-0"



KEY PLAN

100% DESIGN SUBMISSION
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1	03/05/2020	ADDENDUM #1
NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT B

LOCATION NO.	FILE NO.
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B-014C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
ED1.2

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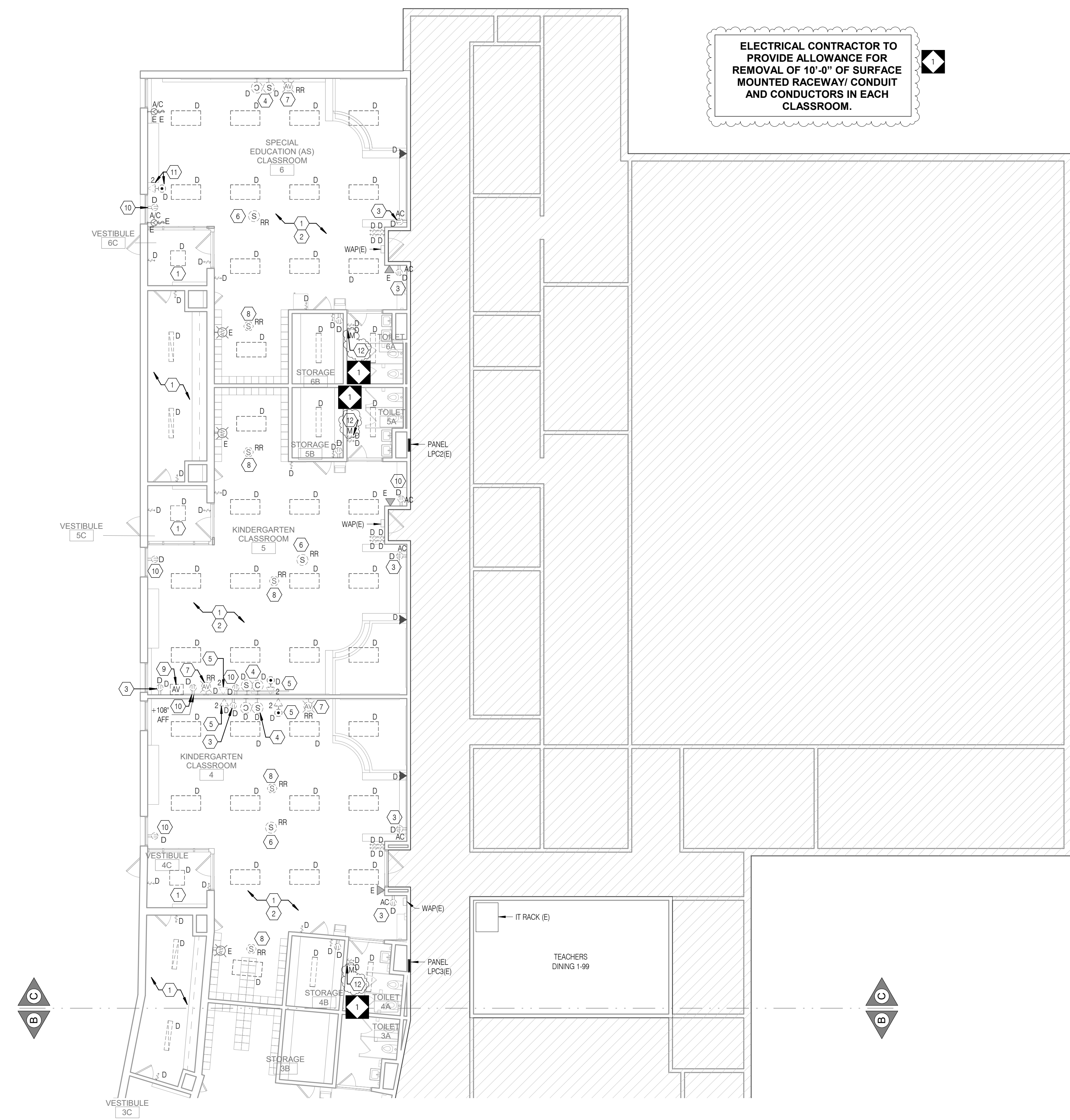
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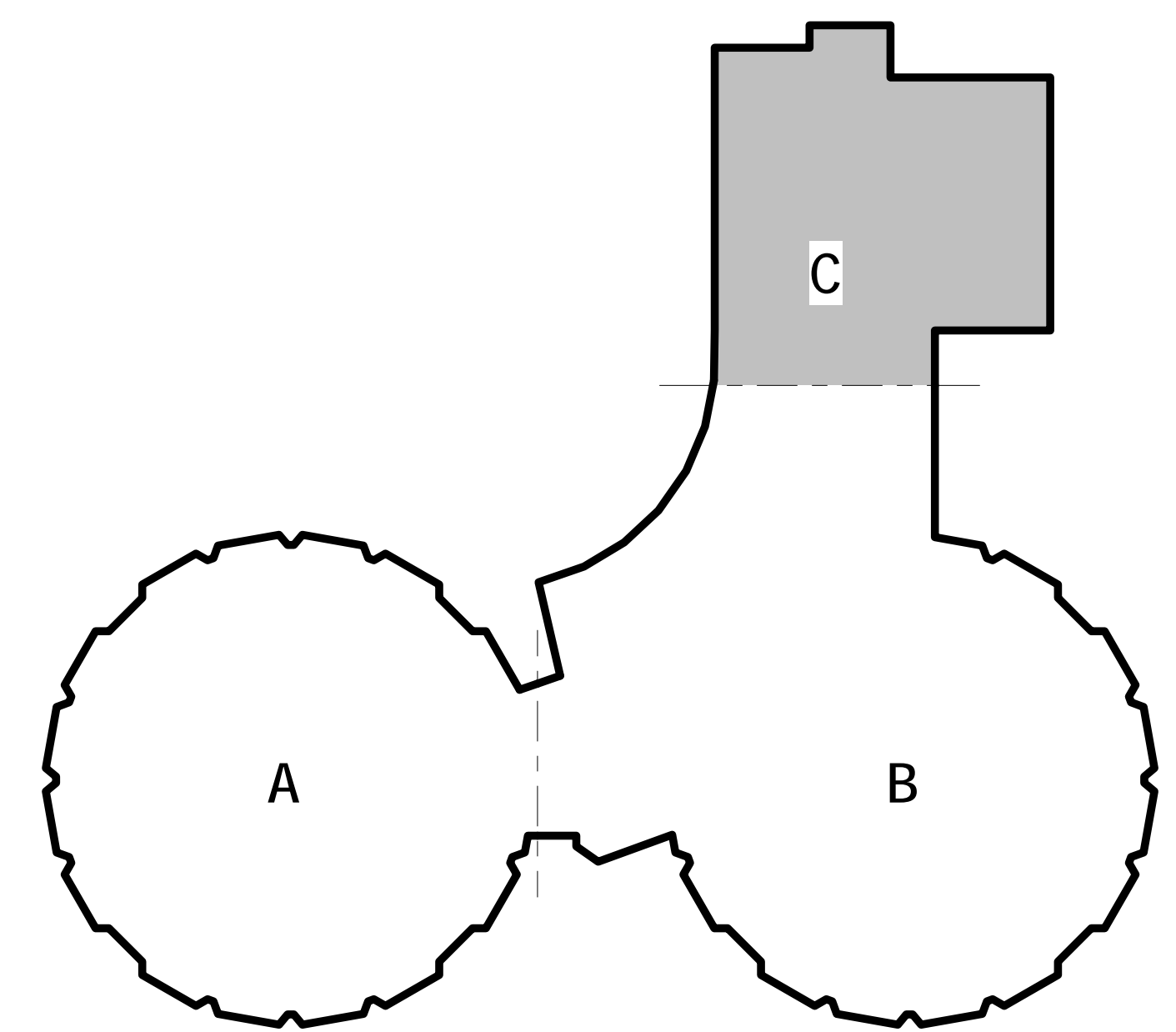
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5. DISCONNECT AND REMOVE EXISTING DATA/CATV OUTLET AND COVERPLATE ALONG WITH ASSOCIATED CATS/CATV CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
6. ALL EXISTING CEILING MOUNTED PUBLIC ADDRESS SPEAKERS TO BE REMOVED AND REINSTALLED IN PLACE TO ACCOMMODATE NEW CEILING. CONTRACTOR TO FIELD TEST FUNCTIONALITY AND REPLACE IF REQUIRED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
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ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.



1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN - AREA C
ED1.3 1/8" = 1'-0"



KEY PLAN

100% DESIGN SUBMISSION
01/22/2020

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PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR DEMOLITION PLAN - UNIT C

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DRAWING NO.
ED1.3

SEAL:



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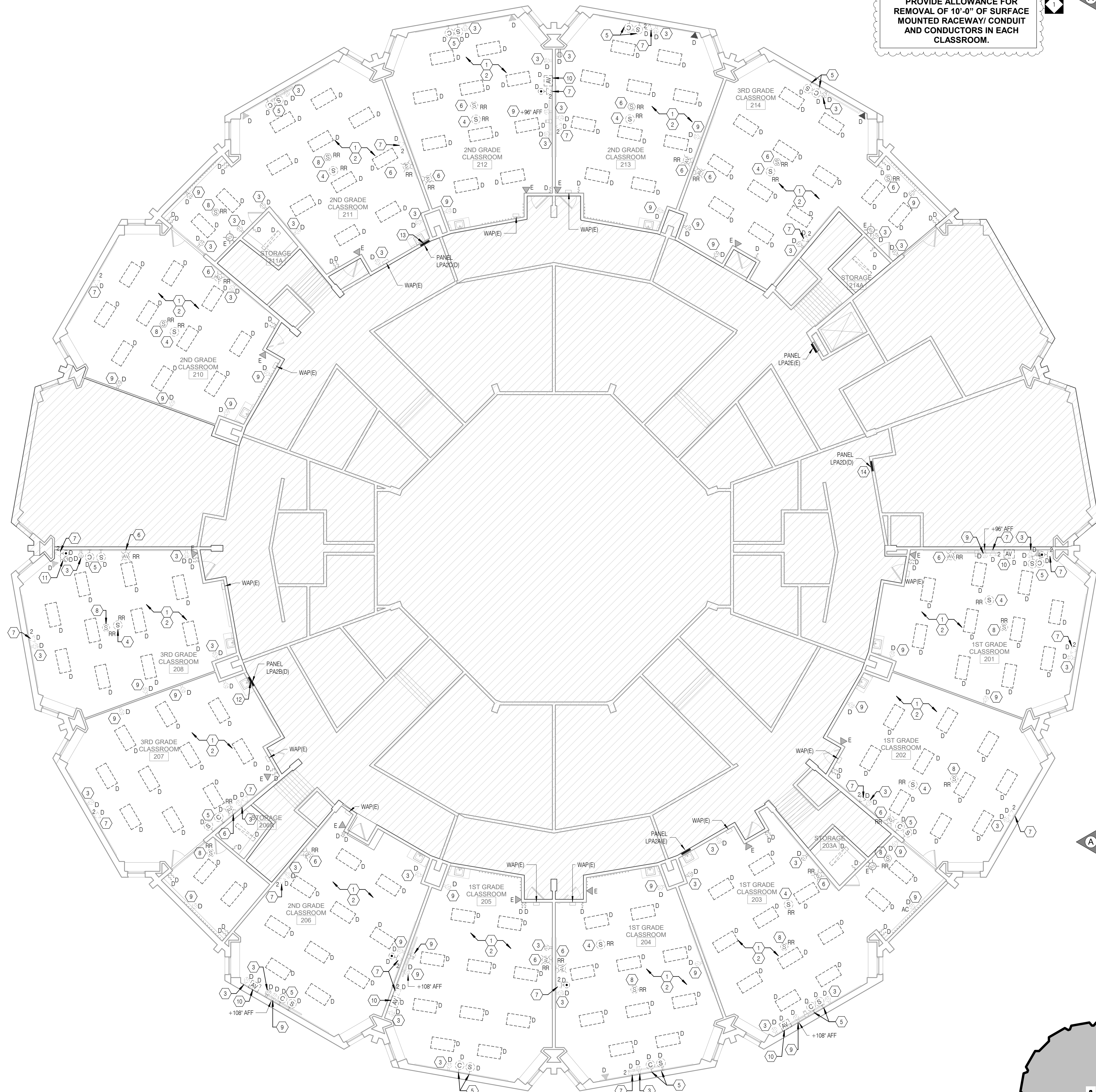
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- THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.

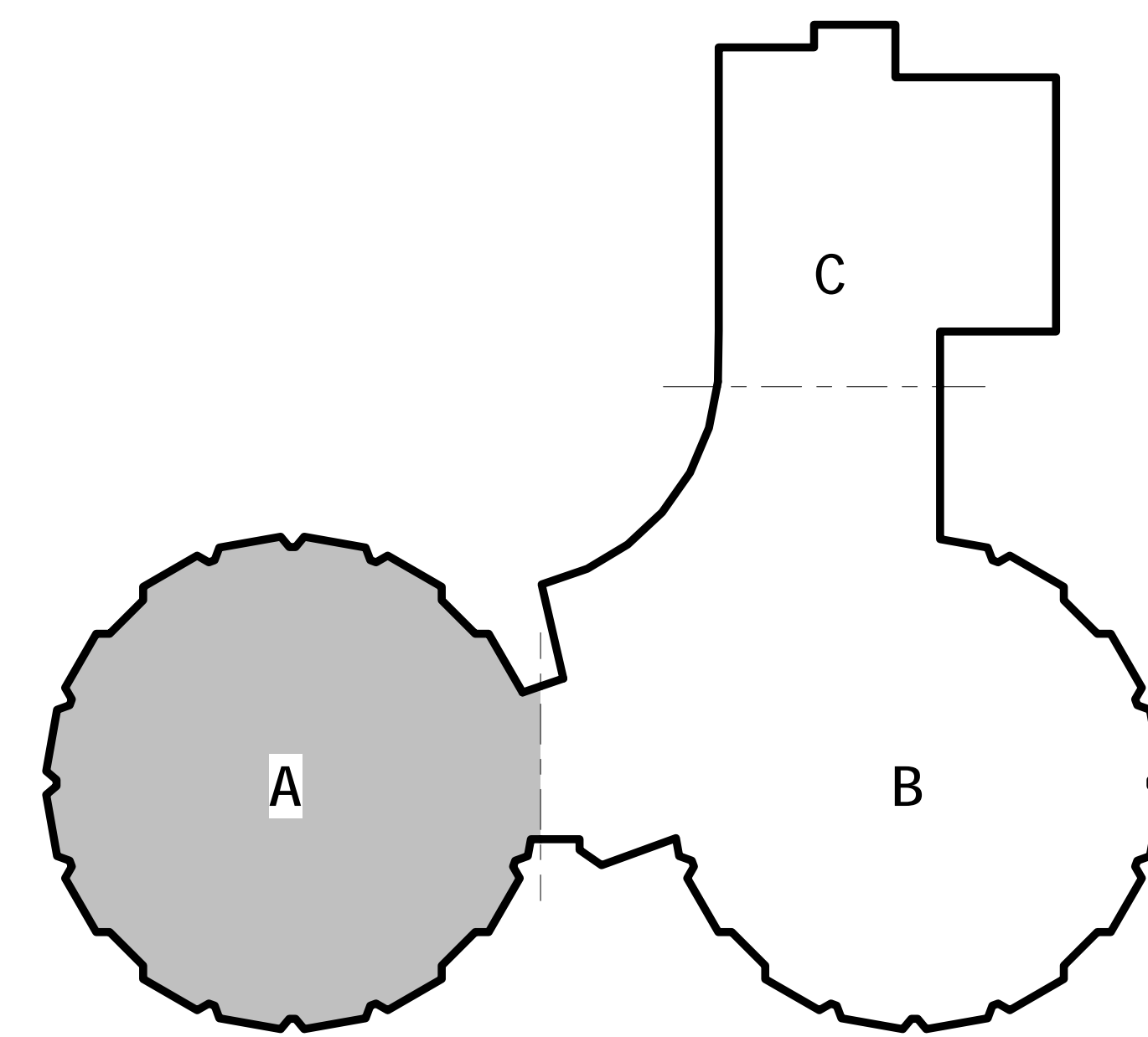
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- COMBINATION OF WIRED SYNCHRONOUS CLOCK AND ABANDONED PUBLIC ADDRESS SPEAKER SYSTEM ASSEMBLY TO BE DEMOLISHED ALONG WITH ASSOCIATED DATA/CATV CABLE AND WIRING WITH THIS SYSTEM TO ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK PLATE AS NEEDED. PATCH AND PAINT AROUND THE BACKBOX AND ALONG THE REMOVED CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING NEW WALL CONSTRUCTION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- EXISTING FIRE ALARM DEVICE TO BE REMOVED AND REINSTALLED AT NEW HEIGHT IN CONFLICT WITH NEW TACK BOARD AND NEW WALL FINISH. REFER TO ARCHITECTURAL AND ELECTRICAL NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
- DISCONNECT AND REMOVE EXISTING DATA/CATV OUTLET AND COVERPLATE ALONG WITH ASSOCIATED DATA/CATV CABLE. EXISTING CONDUIT TO REMAIN IN PLACE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- ALL EXISTING CEILING MOUNTED SMOKE DETECTORS TO BE REMOVED AND REINSTALLED IN PLACE TO ACCOMMODATE NEW CEILING. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
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- DISCONNECT AND REMOVE EXISTING AUDIO VISUAL OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PATCH AND PAINT ALONG THE REMOVED BACK BOX AND CONDUIT/RACEWAY ROUTE. NEW FINISH TO MATCH ADJACENT EXISTING NEW WALL CONSTRUCTION.
- DISCONNECT AND REMOVE EXISTING ABANDONED COAX OUTLET, ASSOCIATED CABLE AND CONDUIT/RACEWAY IN ITS ENTIRETY WITHIN THE ROOM. PROVIDE NEW BLANK COVER PLATE.
- DEMOLISH EXISTING PANELBOARD 'LPAB2' AND REPLACE IN PLACE WITH NEW PANELBOARD. CONTRACTOR TO UTILIZE INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF THE SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD 'LPAB2'. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
- DEMOLISH EXISTING PANELBOARD 'LPAC2' AND REPLACE IN PLACE WITH NEW PANELBOARD. CONTRACTOR TO UTILIZE INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF THE SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD 'LPAC2'. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.
- DEMOLISH EXISTING PANELBOARD 'LPAD2' AND REPLACE IN PLACE WITH NEW PANELBOARD. CONTRACTOR TO UTILIZE INTERCEPT AND EXTEND ALL EXISTING ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF THE SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD 'LPAD2'. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL INFORMATION.

ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10'-0" OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.



1 ELECTRICAL SECOND FLOOR DEMOLITION PLAN
ED1.4
1/8" = 1'-0"



KEY PLAN

100% DESIGN SUBMISSION
01/22/2020

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1	01/10/2020	100% DESIGN SUBMISSION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

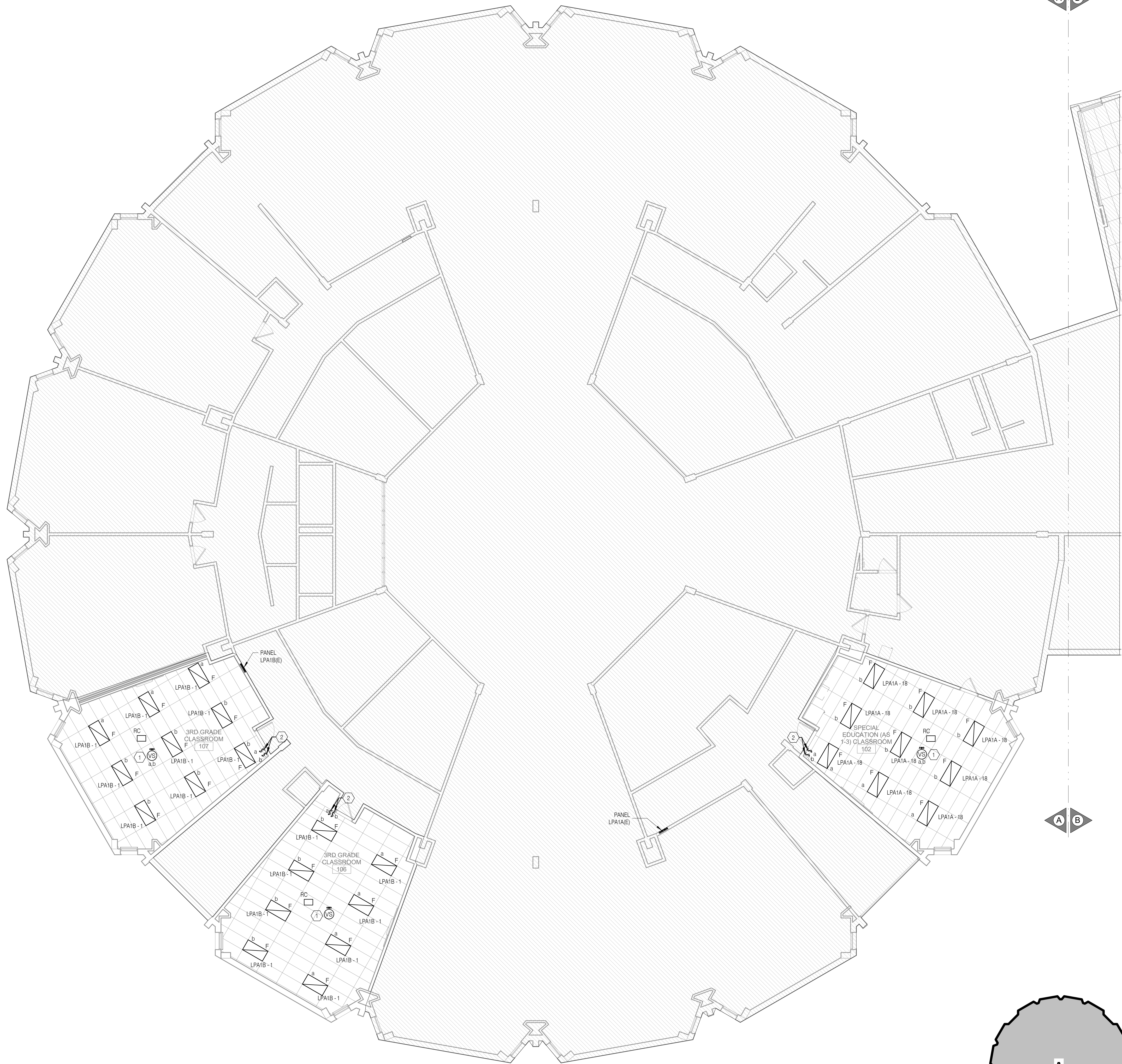
5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL SECOND FLOOR DEMOLITION PLAN

LOCATION NO.	FILE NO.
DRAWN BY	CRA NO. 3223
NS	CHECKED BY
	DAT
B-014C	OF 2019 / 20
B-018C	OF 2019 / 20

DRAWING NO.
ED1.4



1 ELECTRICAL FIRST FLOOR LIGHTING PLAN - AREA A
1/8" = 1'-0"

GENERAL SHEET NOTES

- REFER TO DRAWING E01 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. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

KEYED SHEET NOTES

- 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.
- 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 IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW SWITCH WITH COVERPLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.



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SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

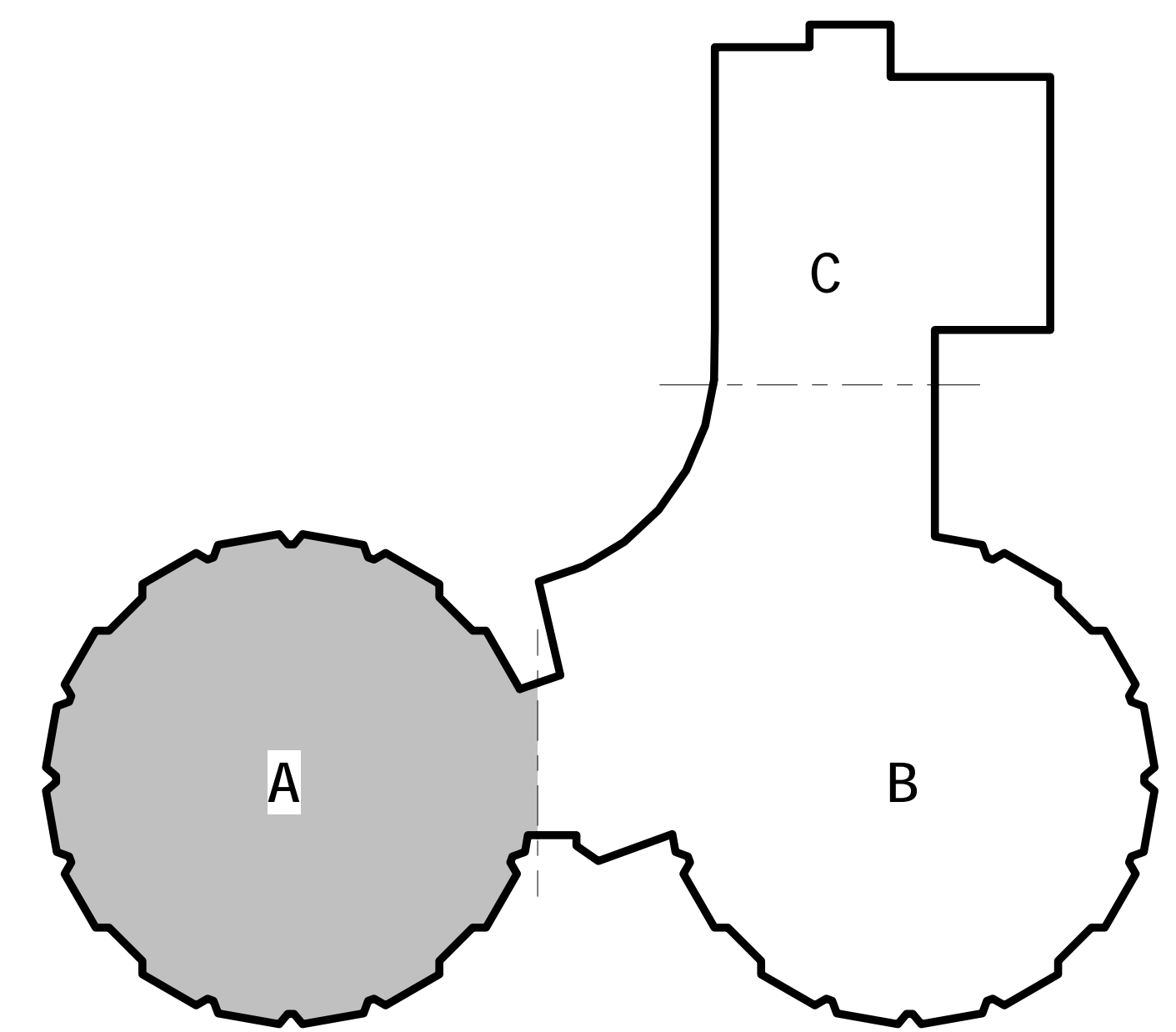
5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT A

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-014C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
E1.1



KEY PLAN



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

- GENERAL SHEET NOTES**
- REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E2.1 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. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

- KEYED SHEET NOTES**
- 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.
 - 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 IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.
 - PROVIDE NEW MOTOR RATED SWITCH FOR EXHAUST FAN WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.



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SCHOOL & LOCATION
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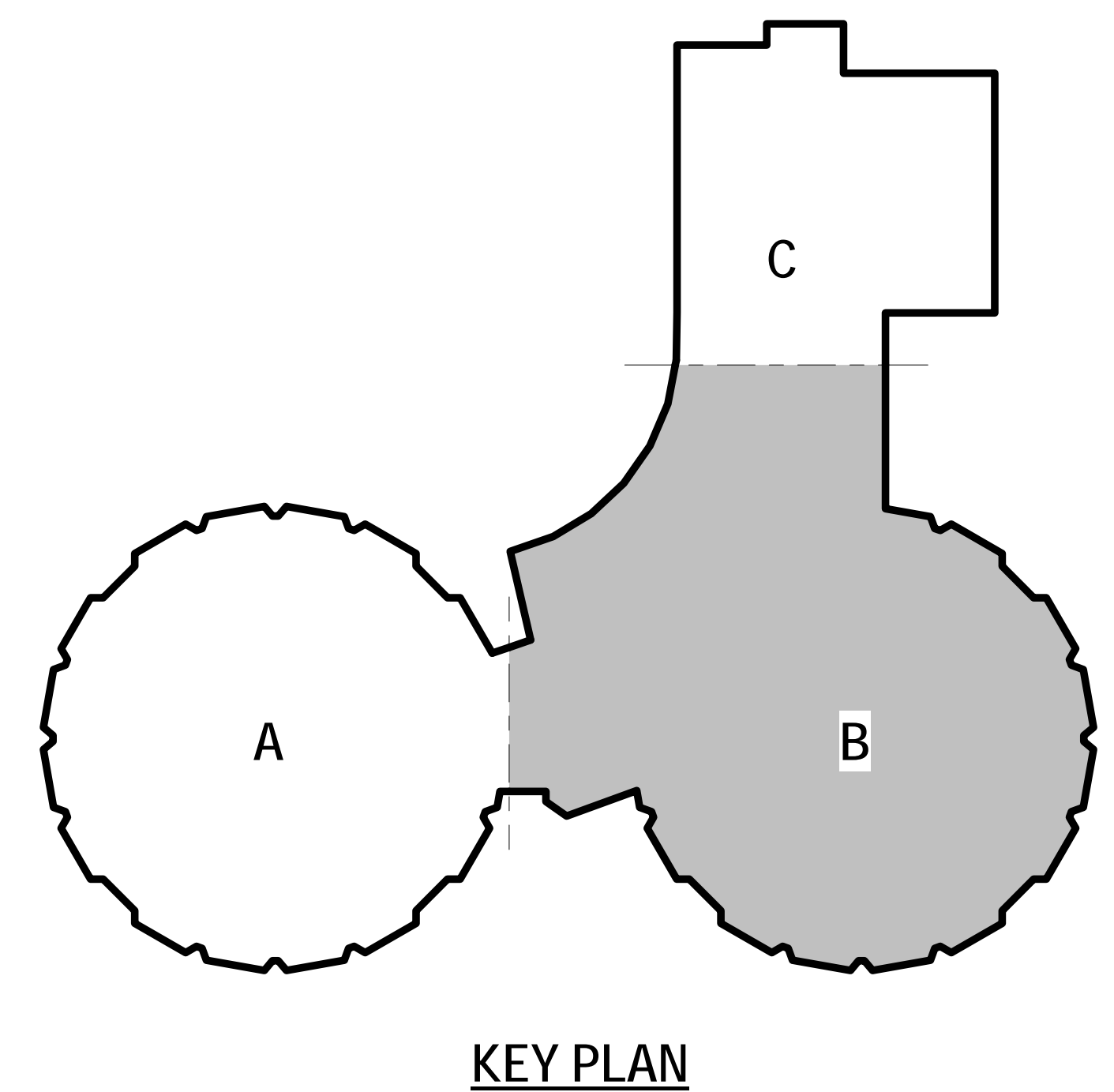
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PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT B

LOCATION NO.	FILE NO.
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B-014C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
E1.2



SEAL:



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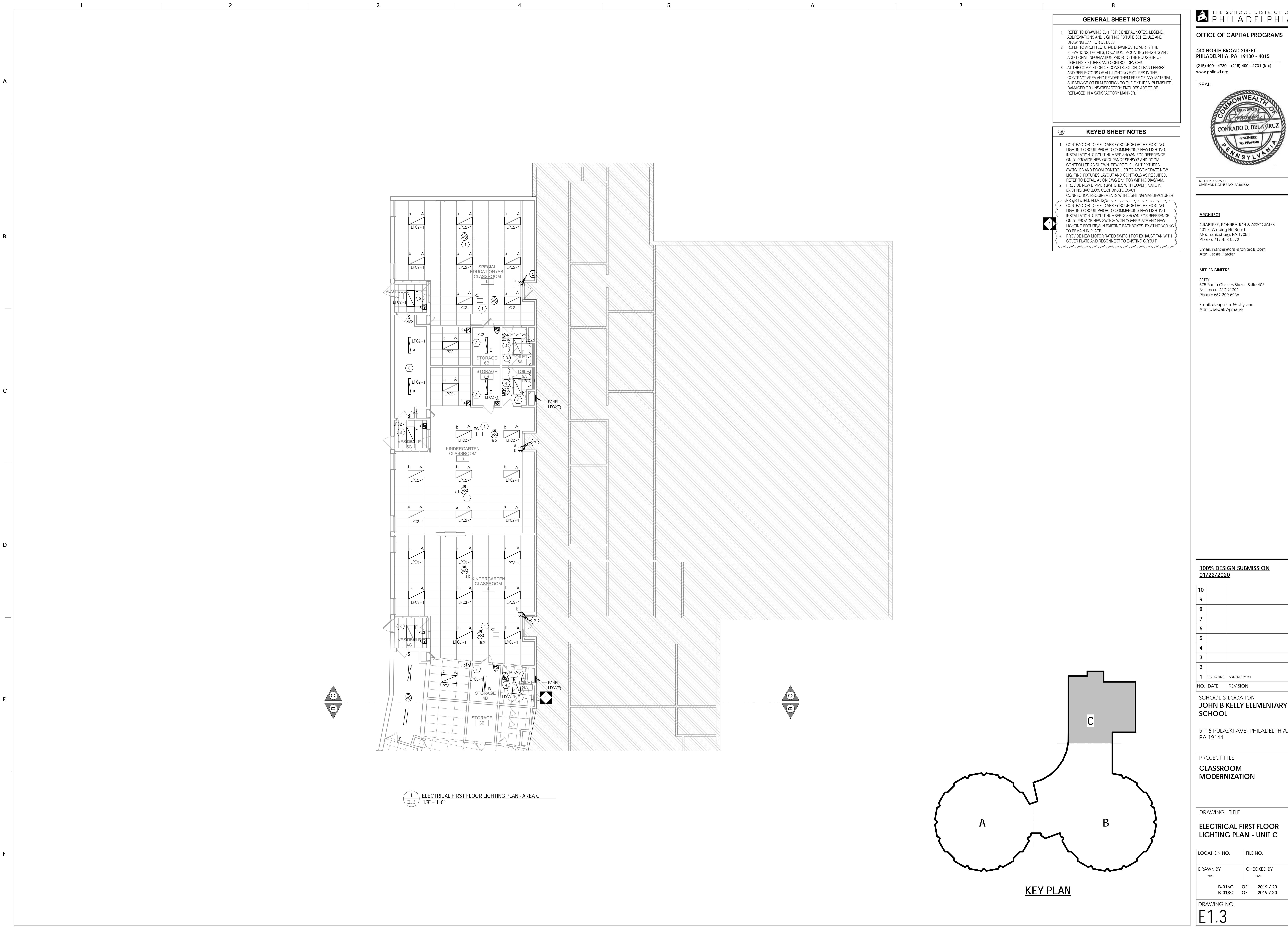
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GENERAL SHEET NOTES

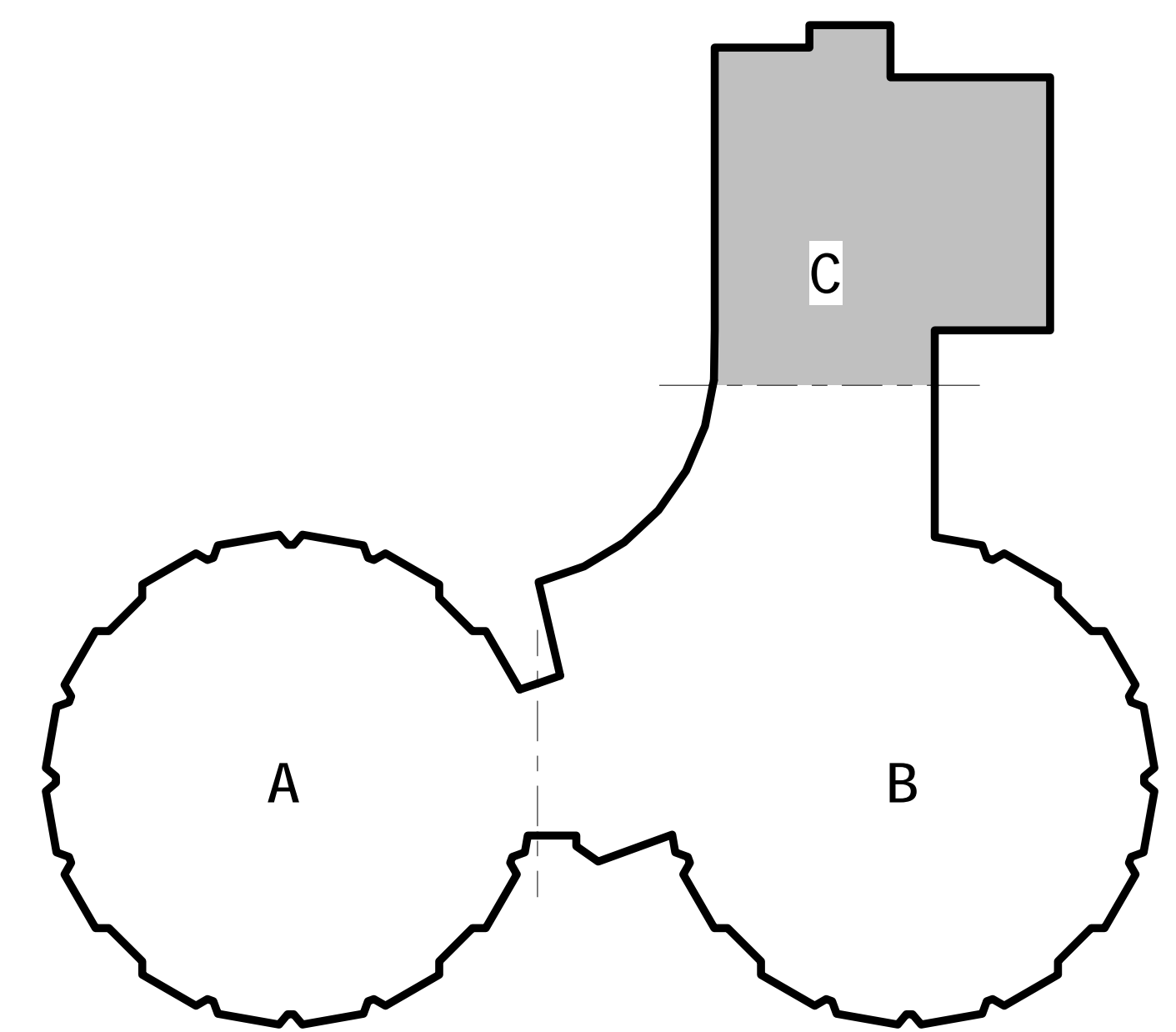
1. REFER TO DRAWING E0.1 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE AND DRAWING E7.1 FOR DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF LIGHTING FIXTURES AND CONTROL DEVICES.
3. 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. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

KEYED SHEET NOTES

1. 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.
2. PROVIDE NEW DIMMER SWITCHES WITH COVER PLATE IN EXISTING BACKBOX. COORDINATE EXACT CONNECTION REQUIREMENTS WITH LIGHTING MANUFACTURER PRIOR TO INSTALLATION.
3. 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 SWITCH WITH COVERPLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.
4. PROVIDE NEW MOTOR RATED SWITCH FOR EXHAUST FAN WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.



1 ELECTRICAL FIRST FLOOR LIGHTING PLAN - AREA C
E1.3 1/8" = 1'-0"



KEY PLAN

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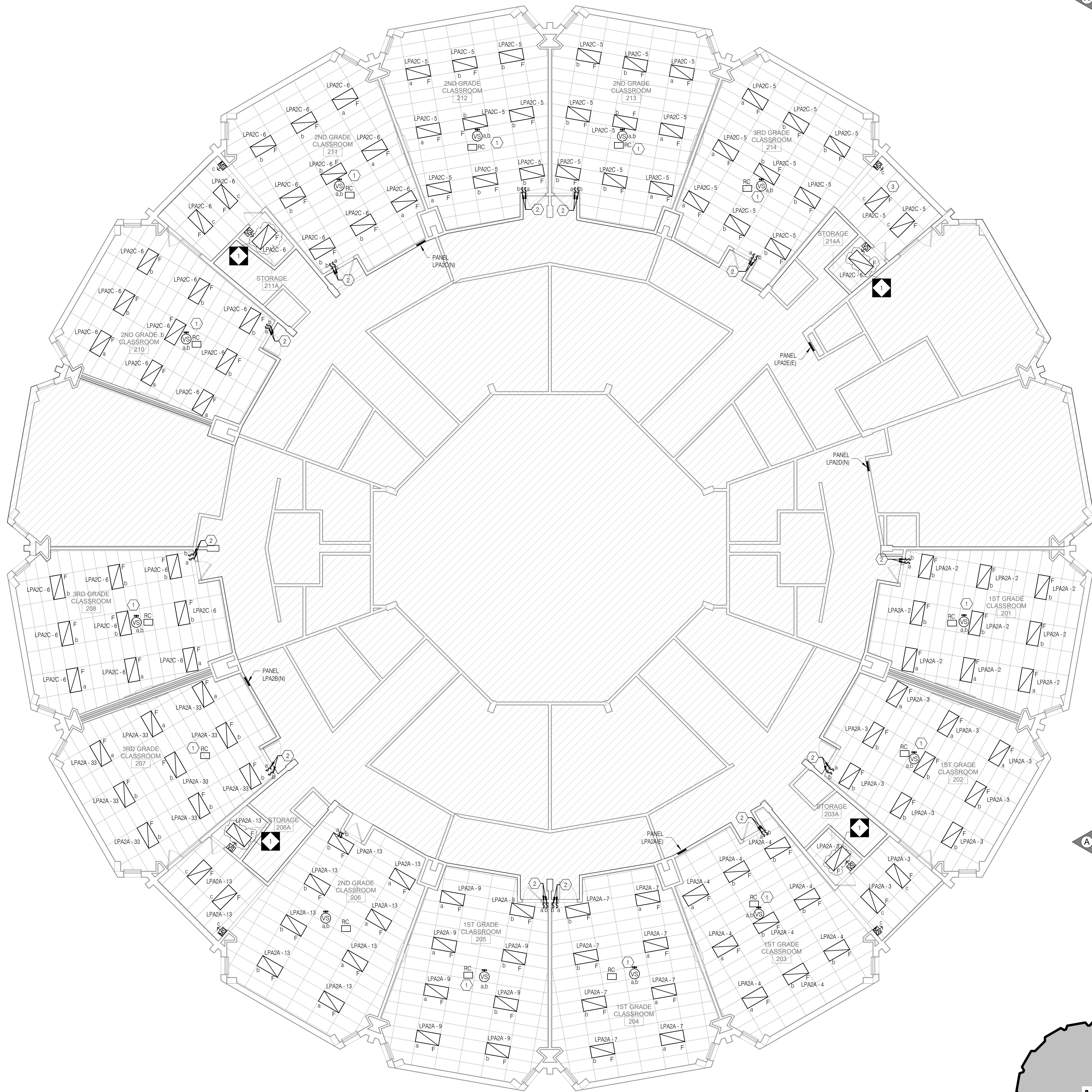
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PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR LIGHTING PLAN - UNIT C

LOCATION NO.	FILE NO.
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DRAWING NO.
E1.3



1 ELECTRICAL SECOND FLOOR LIGHTING PLAN
E1.4
1/8" = 1'-0"

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. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.

KEYED SHEET NOTES

- 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. 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 IS SHOWN FOR REFERENCE ONLY. PROVIDE NEW SWITCH WITH COVER PLATE AND NEW LIGHTING FIXTURES IN EXISTING BACKBOXES. EXISTING WIRING TO REMAIN IN PLACE.



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SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

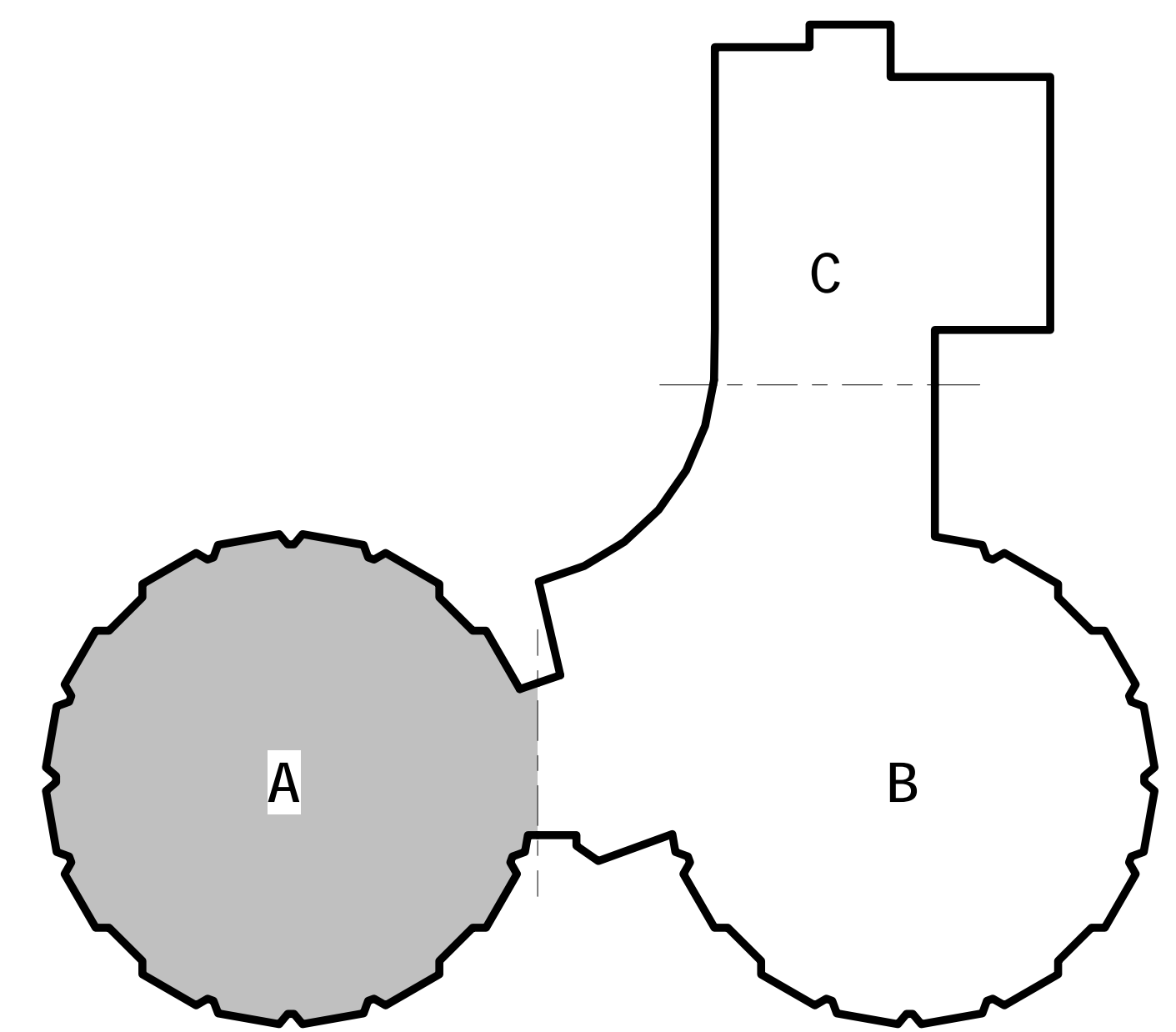
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PROJECT TITLE
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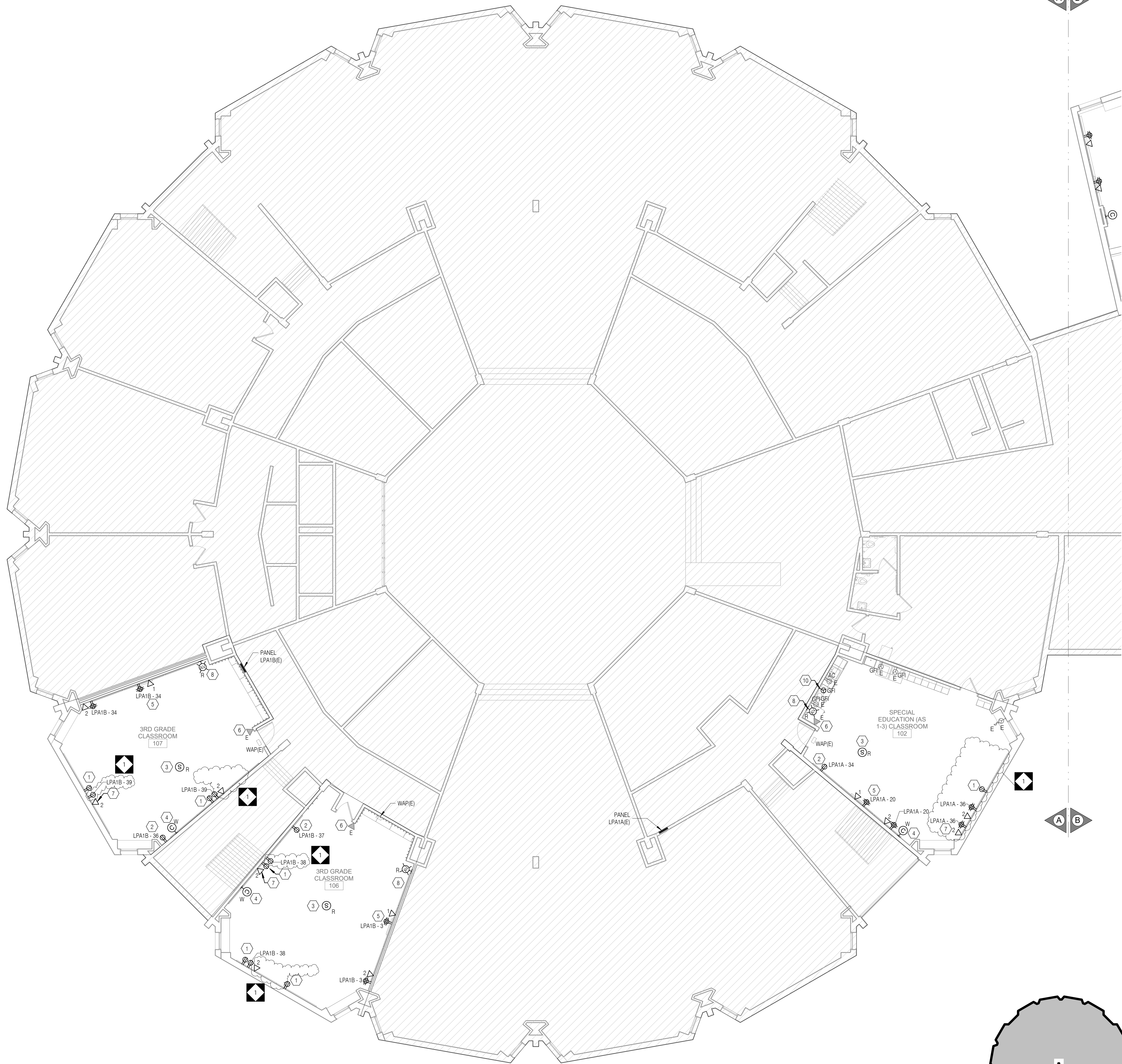
DRAWING TITLE
ELECTRICAL SECOND FLOOR LIGHTING PLAN

LOCATION NO.	FILE NO.
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DRAWING NO.
E1.4



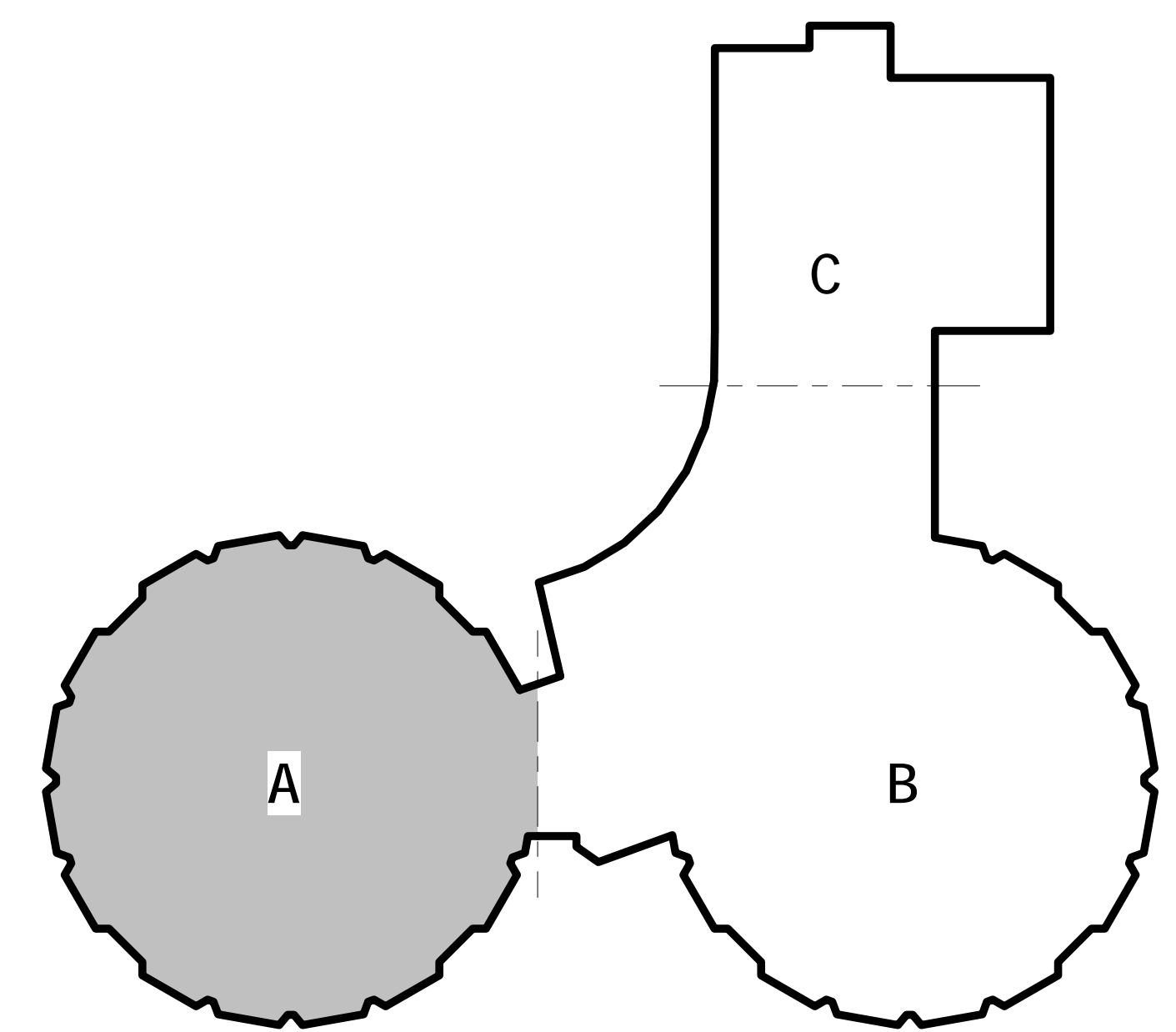
KEY PLAN



1 ELECTRICAL FIRST FLOOR POWER PLAN - AREA A
E2.1
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 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 408.12.
 - 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 PUBLIC ADDRESS 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 AS 1 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
 - CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND ASSOCIATED PHONE. REPLACE ANY DAMAGED PHONE AS NEEDED. COORDINATE WITH SDP FOR PHONE REPLACEMENT.
 - PROVIDE NEW CAT 6 CABLE, DATA OUTLETS WITH COVER PLATE AND RECONNECT TO EXISTING PATCH PANEL.
 - FIRE ALARM DEVICE TO BE REINSTALLED AT 9' AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - NEW LOCATION OF RELOCATED CEILING MOUNTED SMOKE DETECTOR. COORDINATE IN FIELD FOR EXACT LOCATION.
 - PROVIDE NEW TAMPER RESISTANT SPECIALTY RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT FOR NEW RANGE. CONTRACTOR TO COORDINATE WITH EQUIPMENT VENDOR FOR EXACT CONNECTION REQUIREMENTS AND NEMA CONFIGURATION PRIOR TO INSTALLATION.



KEY PLAN



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PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR POWER PLAN - UNIT A

LOCATION NO.	FILE NO.
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DRAWING NO.
E2.1



1 ELECTRICAL FIRST FLOOR POWER PLAN - AREA 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, TELEDATA 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 NONLOCKING TYPE RECEPTACLES SHALL BE TAMPER RESISTANT AS PER NEC 406.4.
 - 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 FLATTOP CART CHARGING STATION.
 - NEW LOCATION OF RELOCATED PUBLIC ADDRESS SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
 - PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. MOUNT CLOCK ON THE EXISTING CLOCK ASSEMBLY AS NEEDED.
 - 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 AS 1 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
 - CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND ASSOCIATED PHONE. REPLACE ANY DAMAGED PHONE AS NEEDED. COORDINATE WITH SDP FOR PHONE REPLACEMENT.
 - FIRE ALARM DEVICE TO BE REINSTALLED AT 96" AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE NEW CAT 6 CABLE. DATA OUTLETS WITH COVER PLATE AND RECONNECT TO EXISTING PATCH PANEL.
 - NEW LOCATION OF CEILING MOUNTED SMOKE DETECTOR. COORDINATE IN FIELD FOR EXACT LOCATION.



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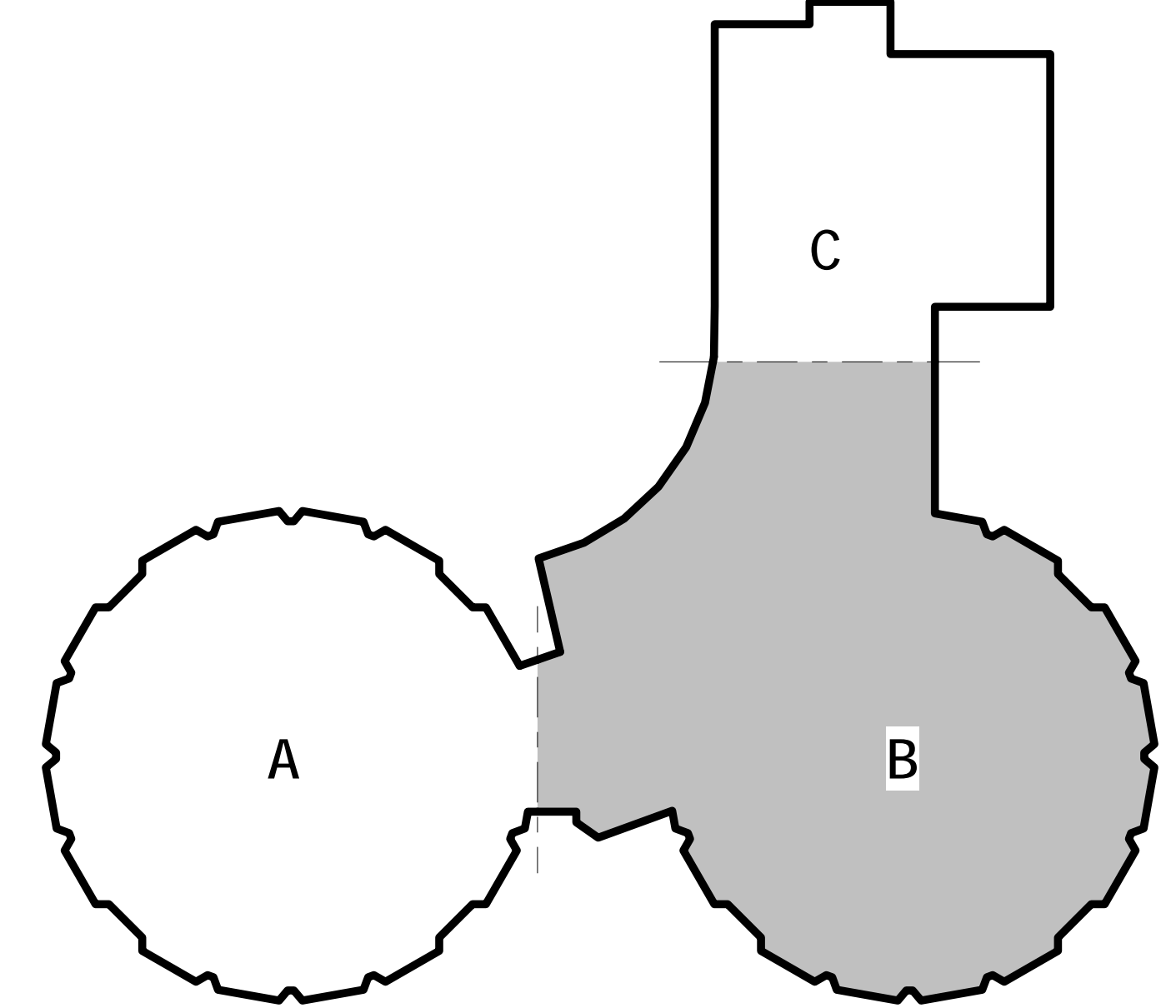
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PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL FIRST FLOOR POWER PLAN - UNIT B

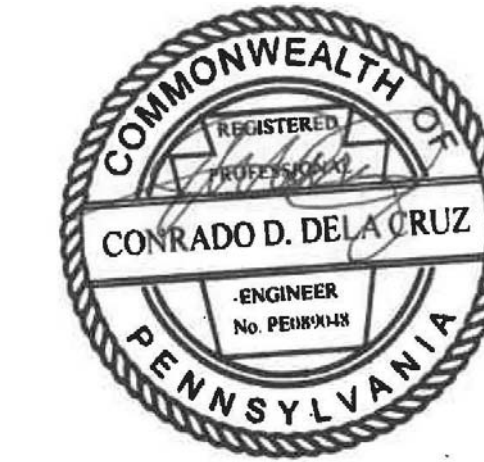
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DRAWING NO.
E2.2



KEY PLAN

SEAL:



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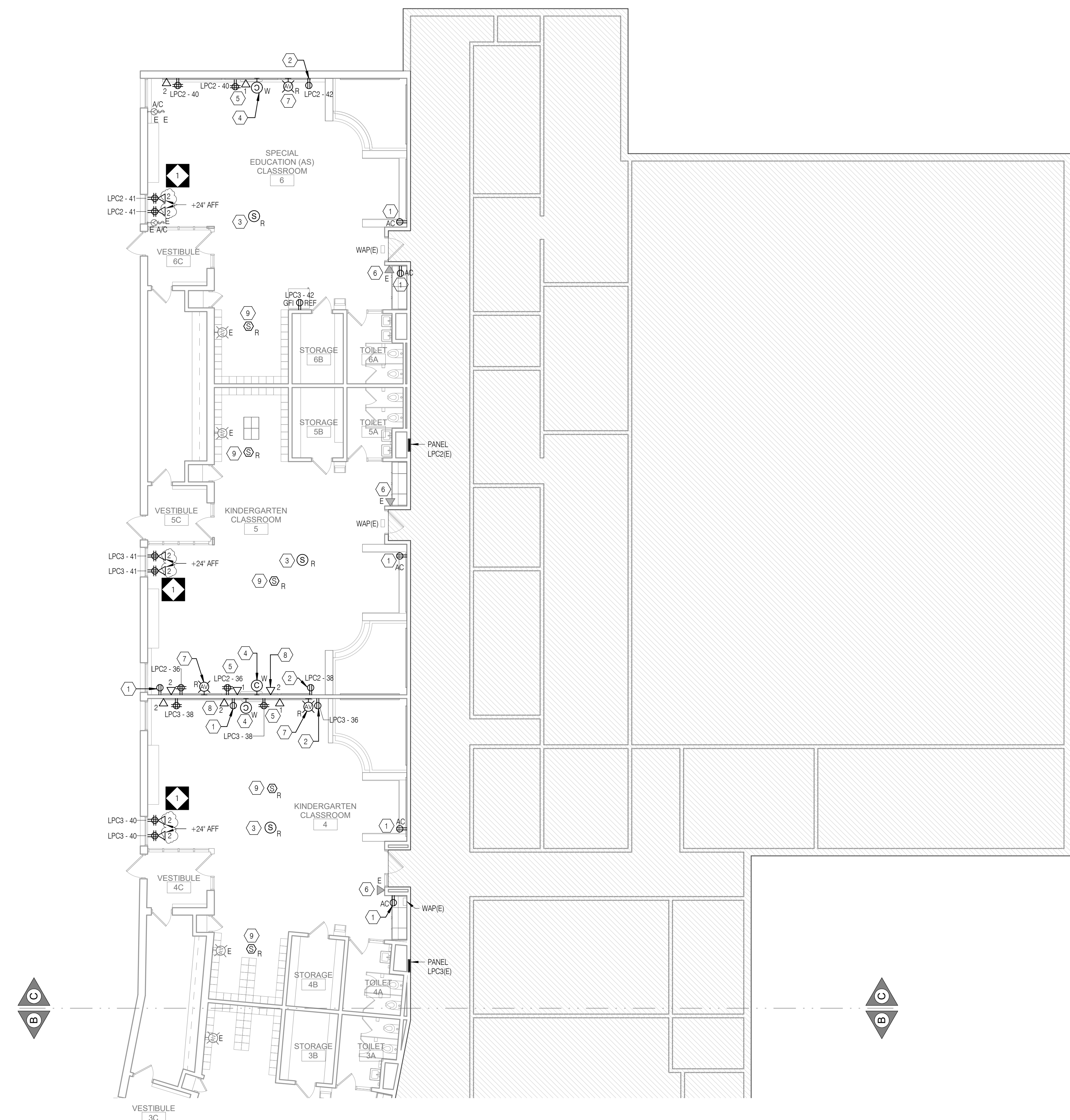
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GENERAL SHEET NOTES

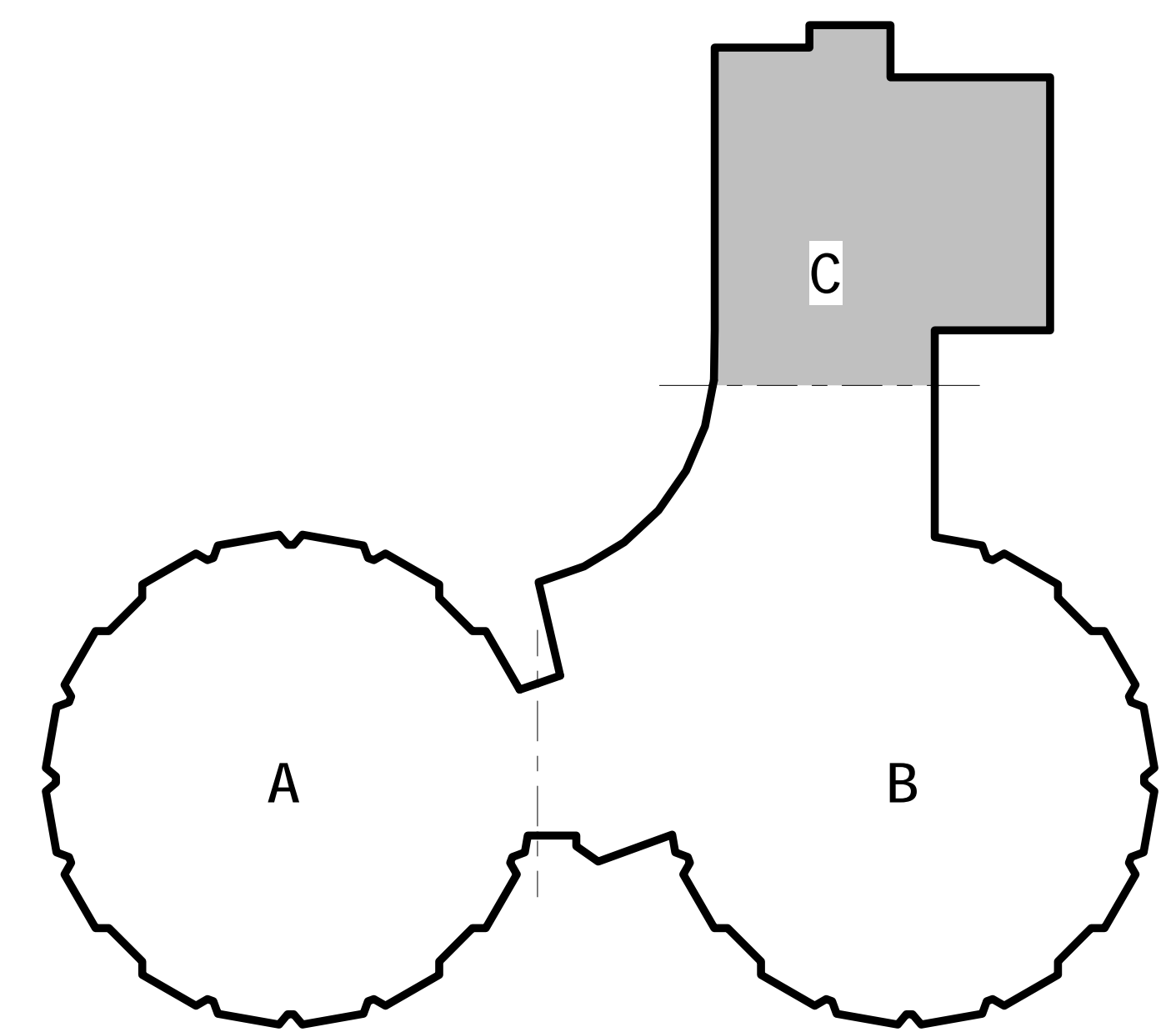
- REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
- ALL RECEPTACLES, TELE/ DATA OUTLETS WITH ASSOCIATED WIRING, CONDUIT RACEWAYS, ETC SHALL BE SURFACE MOUNTED ON EXISTING WALLS 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 PUBLIC ADDRESS 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 AS 1 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
- CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND ASSOCIATED PHONE. REPLACE ANY DAMAGED PHONE AS NEEDED. COORDINATE WITH SDP FOR PHONE REPLACEMENT.
- FIRE ALARM DEVICE TO BE REINSTALLED AT 96" AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CAT 6 CABLE, DATA OUTLETS WITH COVER PLATE AND RECONNECT TO EXISTING PATCH PANEL.
- NEW LOCATION OF CEILING MOUNTED SMOKE DETECTOR. COORDINATE IN FIELD FOR EXACT LOCATION.



1 ELECTRICAL FIRST FLOOR POWER PLAN - AREA C
E2.3 1/8" = 1'-0"



KEY PLAN

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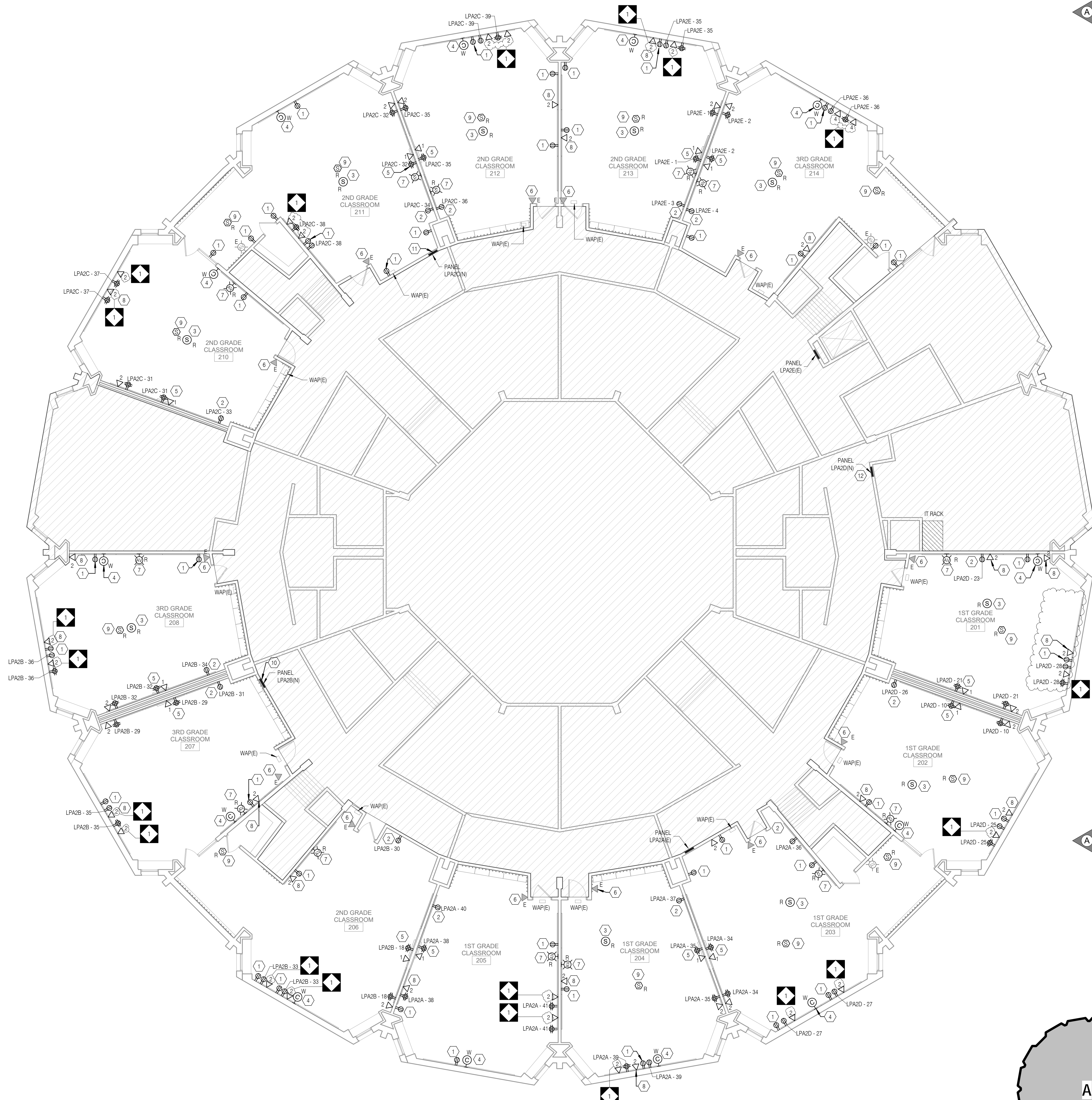
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ELECTRICAL FIRST FLOOR POWER PLAN - UNIT C

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-014C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
E2.3



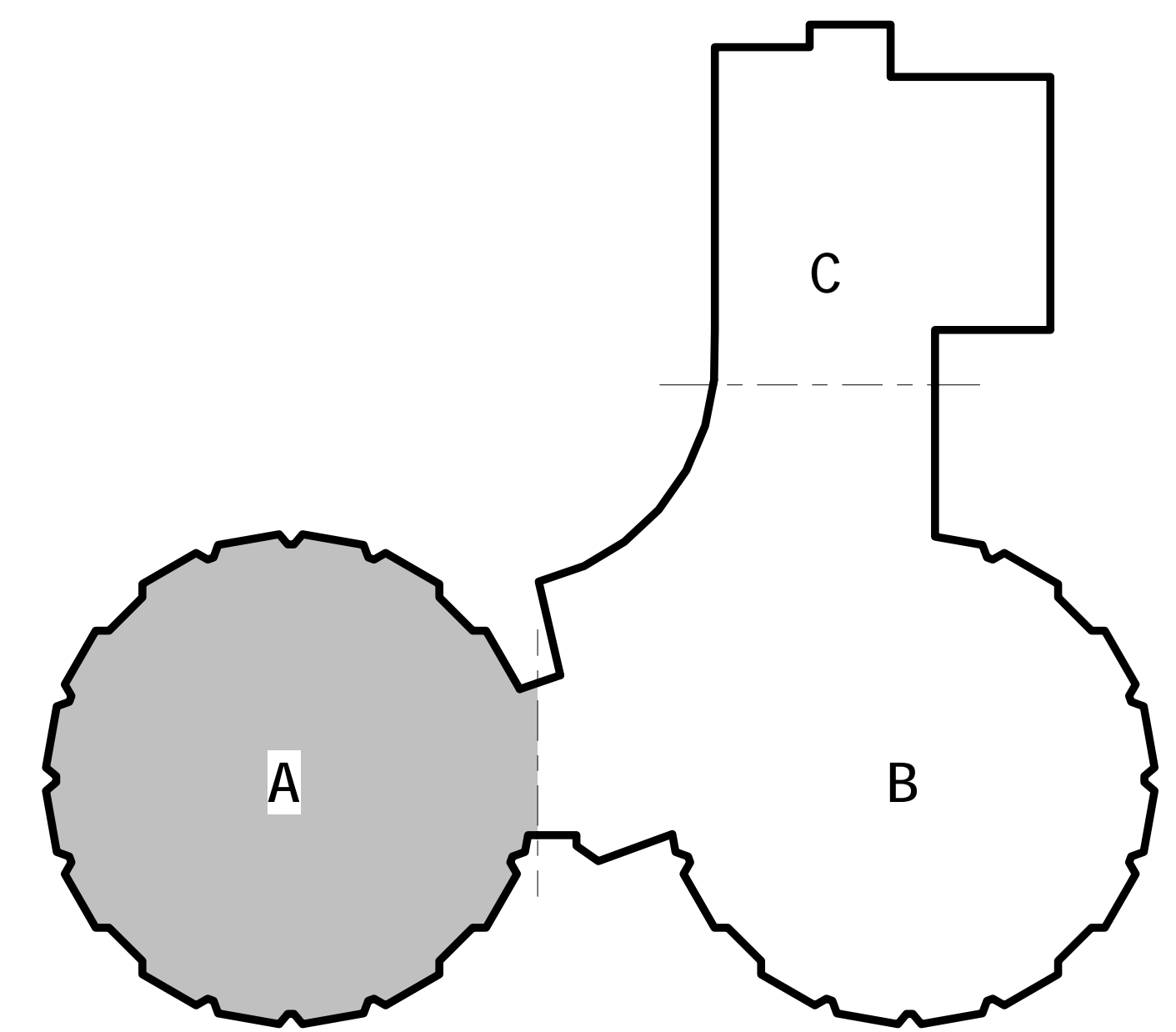
1 ELECTRICAL SECOND FLOOR POWER PLAN
E2.4
1/8" = 1'-0"

GENERAL SHEET NOTES

- REFER TO DRAWING E01 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
- ALL RECEPTACLES, TELE/ATA 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 CHARGING STATION.
- NEW LOCATION OF RELOCATED PUBLIC ADDRESS SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
- PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. MOUNT CLOCK ON THE EXISTING CLOCK ASSEMBLY AS NEEDED.
- 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 AS 1 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
- CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND ASSOCIATED PHONE. REPLACE ANY DAMAGED PHONE AS NEEDED. COORDINATE WITH SDP FOR PHONE REPLACEMENT.
- FIRE ALARM DEVICE TO BE REINSTALLED AT 6' AFF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CAT 6 CABLE, DATA OUTLETS WITH COVER PLATE AND RECONNECT TO EXISTING PATCH PANEL.
- NEW LOCATION OF CEILING MOUNTED SMOKE DETECTOR. COORDINATE IN FIELD FOR EXACT LOCATION.
- NEW PANELBOARD LPA2B: 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 LPA2C: 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 LPA2D: 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.



KEY PLAN



R. JEFFREY STRAUB
STATE AND LICENSE NO. RA033662

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100% DESIGN SUBMISSION
01/22/2020

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1	03/05/2020	ADDENDUM #1

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

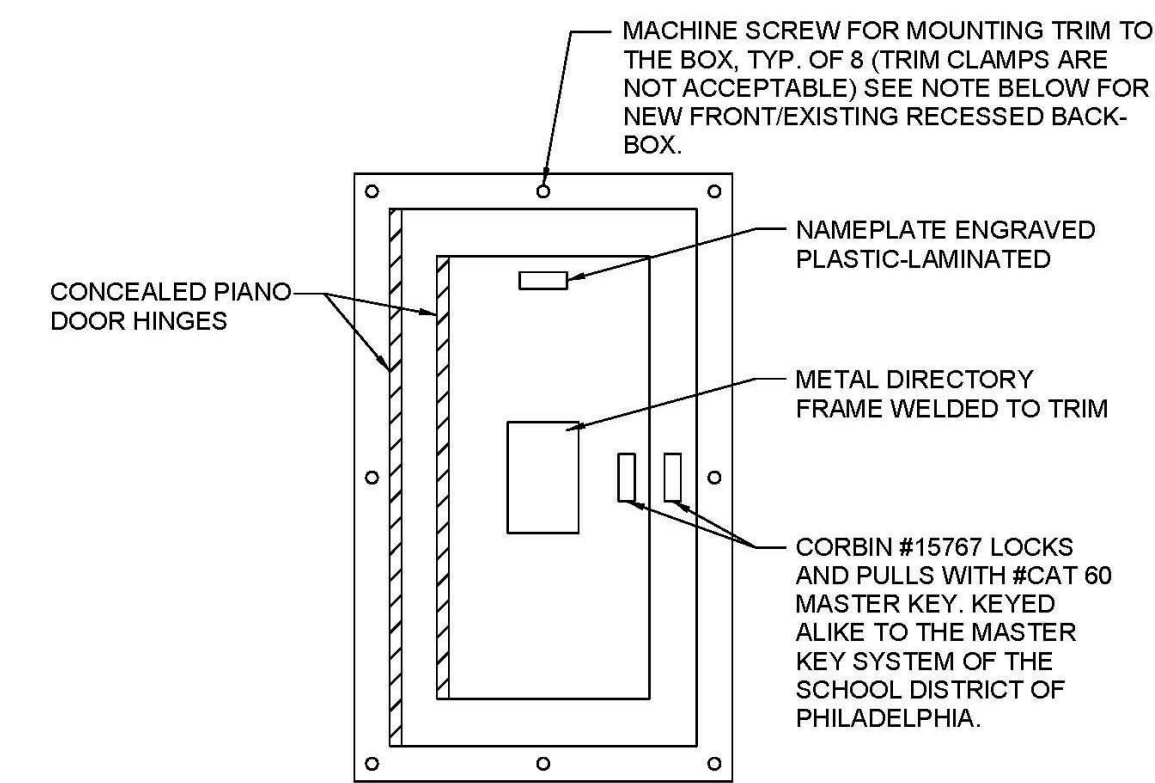
5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

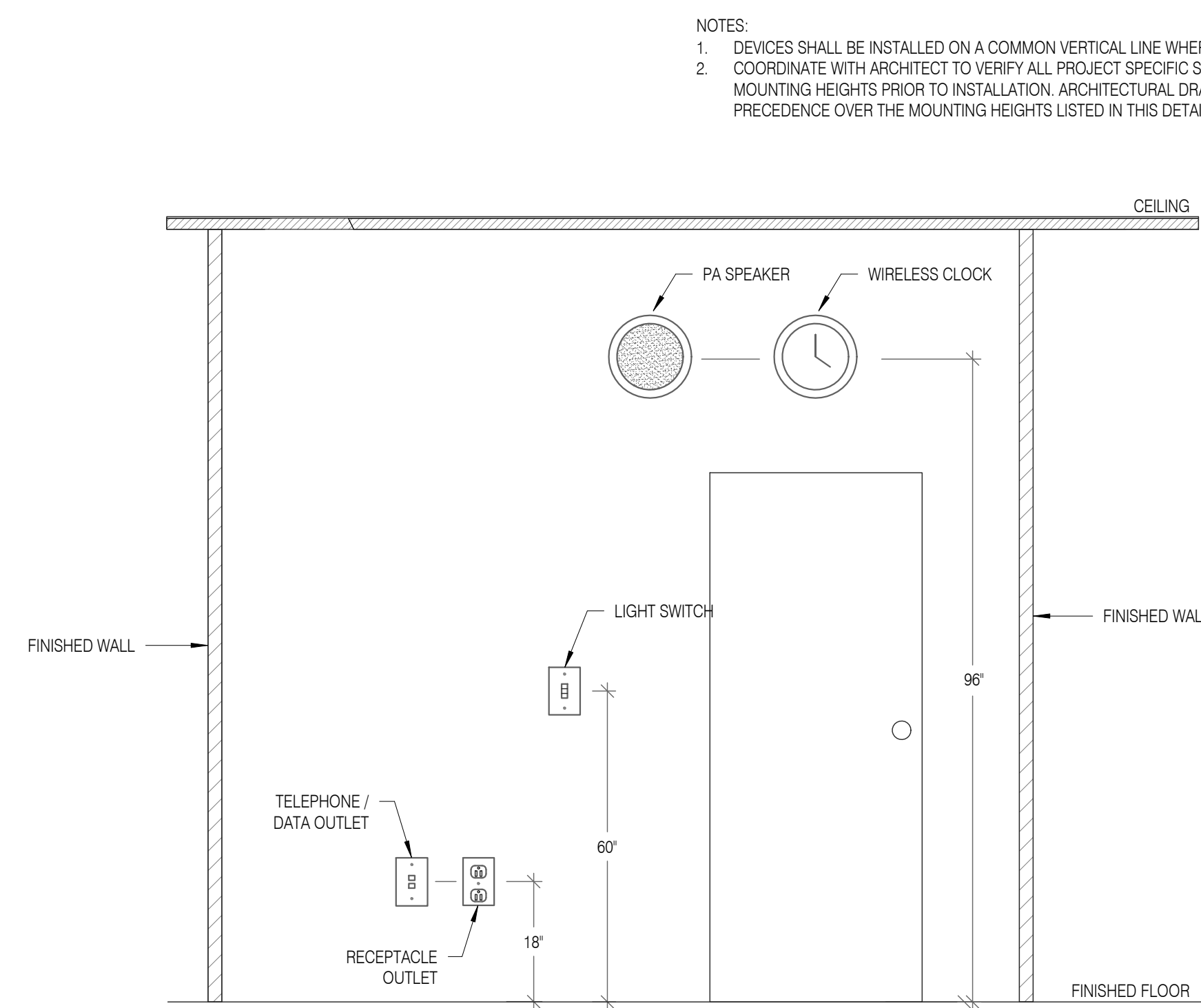
DRAWING TITLE
ELECTRICAL SECOND FLOOR POWER PLAN

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-014C OF 2019 / 20	B-018C OF 2019 / 20

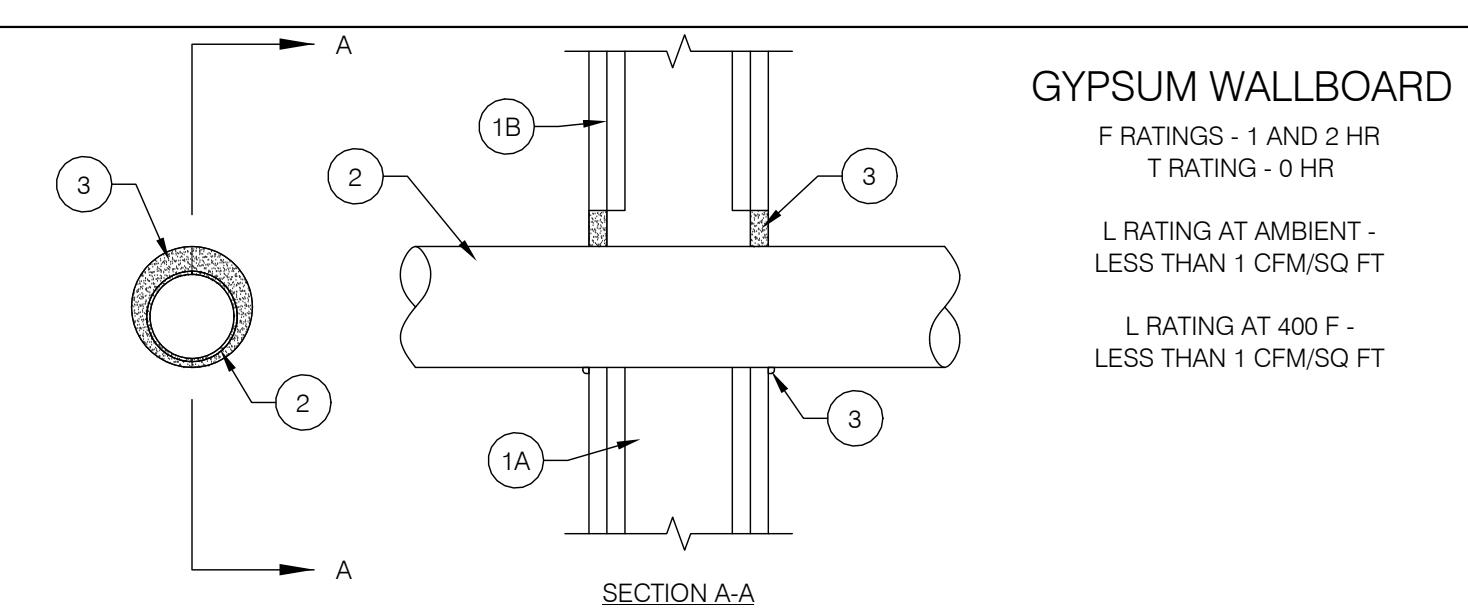
DRAWING NO.
E2.4



4 PANELBOARD FRONT STANDARD
E7.1 NTS

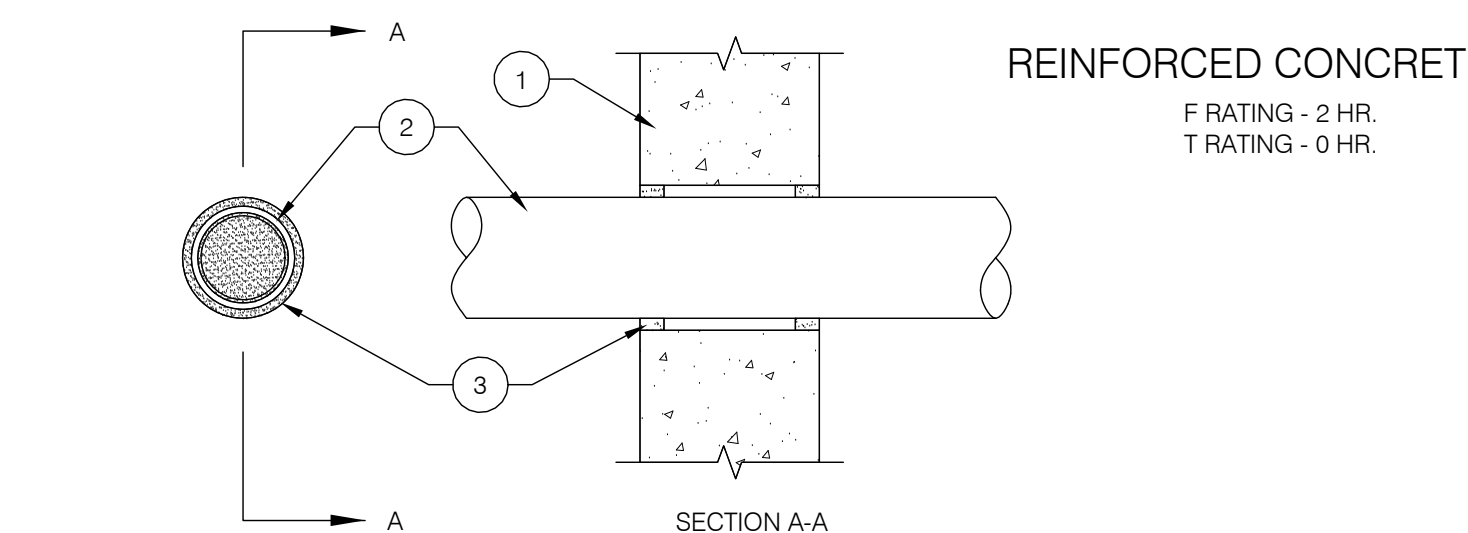


2 TYPICAL DEVICE MOUNTING HEIGHTS DETAIL
E7.1 NTS



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 U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- 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.
 - 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:
- STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER STEEL PIPE).
 - IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - 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.
 - COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - 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 2014. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



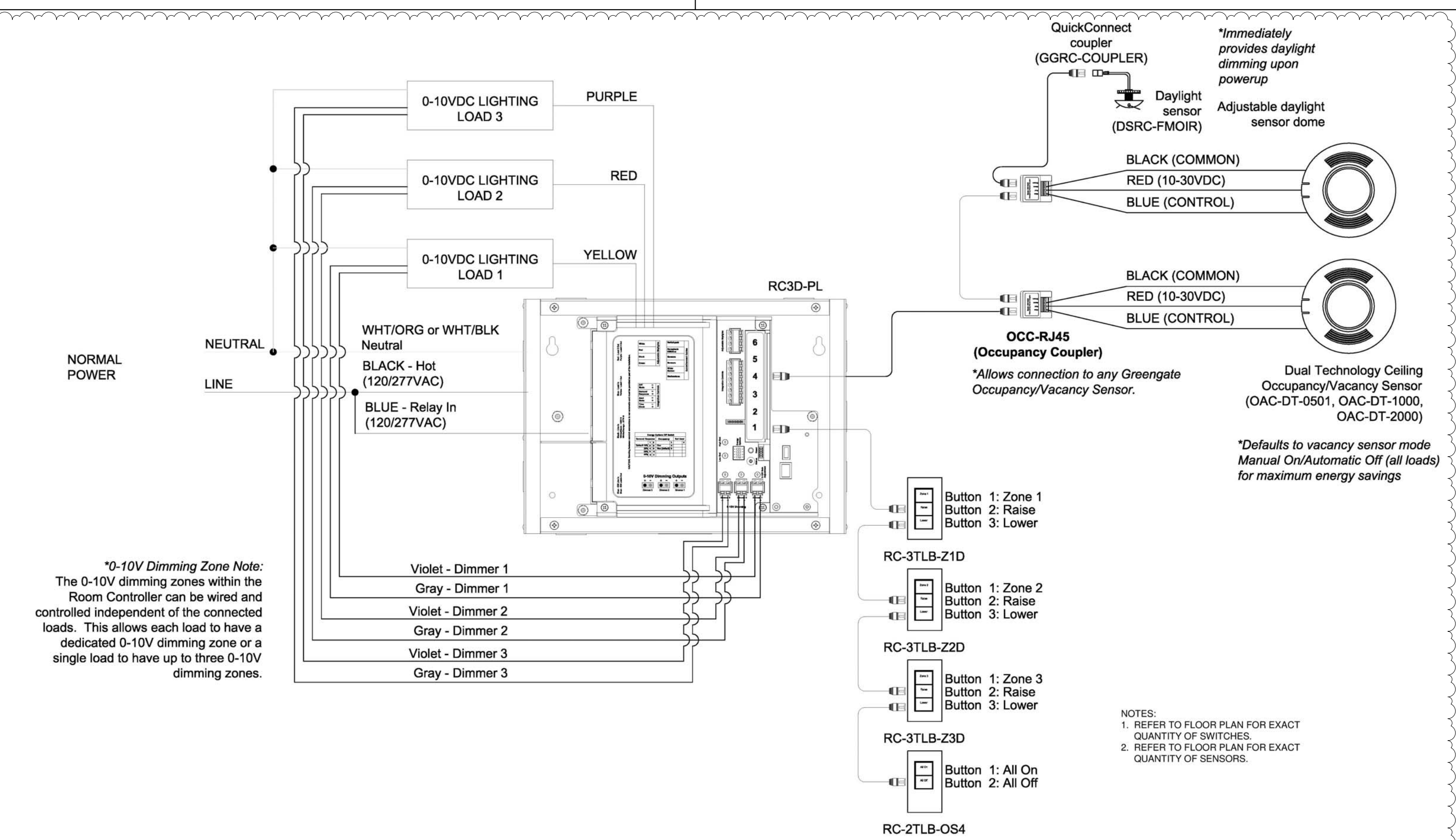
1. WALL ASSEMBLY - MIN 8 IN. (192 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS* MAX DIAM OF OPENING IS 25 IN. (635 MM). SEE CONCRETE BLOCKS (CAZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR THE NAMES OF MANUFACTURERS.
2. THROUGH PENETRANT - ONE METALLIC PIPE, TUBING OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP 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:
- STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - 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)

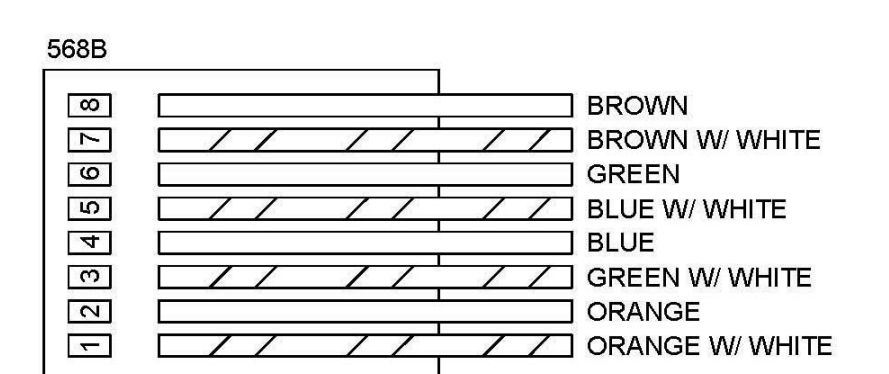
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS. FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANT AND CONCRETE. A MIN 3/8 IN. (10 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/THROUGH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

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2014. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.

1 THROUGH-PENETRATION FIRE STOP DETAIL
E7.1 NTS



3 TYPICAL CLASSROOM LIGHTING CONTROLLER
E7.1 NTS



NOTE
1. ALL RJ45 TERMINATION POINTS SHALL BE CONFIGURED TO THE EIA/TIA 568B STANDARD UNLESS SPECIFICALLY DIRECTED OTHERWISE BY SDP AUTHORIZED REPRESENTATIVE.

5 RJ45 TERMINATION DETAIL
E7.1 NTS

100% DESIGN SUBMISSION
01/22/2020

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NO.	DATE	REVISION

SCHOOL & LOCATION
JOHN B KELLY ELEMENTARY SCHOOL

5116 PULASKI AVE, PHILADELPHIA, PA 19144

PROJECT TITLE
CLASSROOM MODERNIZATION

DRAWING TITLE
ELECTRICAL DETAILS

LOCATION NO.	FILE NO.
DRAWN BY NBS	CHECKED BY DAT
B-014C OF 2019 / 20	B-018C OF 2019 / 20

DRAWING NO.
E7.1

Lead Safe Certification for John B Kelly ES

Lead Safe Certification for John B Kelly ES														
Name of Inspector: Charles Rhodes									Inspection Dates: 2/26/20 - 2/27/20					
Inspection Company: Batta Environmental									ULCS# 6470					
ULCS#	On-Site Room Name	Student/	Primary	Substrate Material	Color	Description	Primary	XRF Reading	Primary	Additional Component (see	Substrate Material	Color	Description of Paint	Additional
6470	Electrical Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	5
6470	Boiler Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Grey	Chipping	5
6470	Building Engineer's Office	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Tan	Chipping	10
6470	Building Engineer's Office	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Window frame	Metal	Tan	Chipping	5
6470	Building Engineer's Office	no	W3	Plaster	Tan	Chipping	10	0	N/A	N/A	N/A	N/A	N/A	N/A
6470	Building Engineer's Office Restroom	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Pipe	Metal	Tan	Chipping	20
6470	Staff Locker Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Brown	Chipping	5
6470	Staff Locker Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	5
6470	Staff Locker Room Restroom	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Stairwell from 1st Floor to Boiler Room	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom K-1	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	8
6470	Classroom K-1	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	6
6470	Classroom K-1	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	6
6470	Classroom K-1 Restroom	yes	Floor	Concrete	Grey	Chipping	10	0.3	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom K-1 Closet	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Chipping	6
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	8
6470	Entrance	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	2
6470	Closet between Classrooms K-1 & K-2	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Chipping	10
6470	Classroom K-2	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	9
6470	Classroom K-2	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	10
6470	Classroom K-2	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	6
6470	Classroom K-2 Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	2
6470	Classroom K-2 Closet	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Chipping	6
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Entrance	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	3
6470	Classroom K-3	yes	W1	Concrete	Blue	Chipping	8	0.1	N/A	Door Frame	Metal	Brown	Chipping	8
6470	Classroom K-3	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	15
6470	Classroom K-3	yes	W3	Concrete	Blue	Cracking	11	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom K-3	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	12
6470	Classroom K-3 Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom K-3 Closet	yes	W1	N/A	N/A	None	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	1
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Entrance	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	10
6470	Closet between Classrooms K-3 & K-4	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	6
6470	Classroom K-4	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	10
6470	Classroom K-4	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	14
6470	Classroom K-4	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Blue	Chipping	8
6470	Classroom K-4 Restroom	yes	Floor	Concrete	Grey	Chipping	10	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom K-4 Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	4
6470	Classroom K-4 Closet	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	4
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	20
6470	Entrance	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	10
6470	Classroom K-5	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Black	Chipping	2
6470	Classroom K-5	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Green	Chipping	20
6470	Classroom K-5	yes	W3	Concrete	Green	Chipping	10	0	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom K-5	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Green	Chipping	8
6470	Classroom K-5 Restroom	yes	Floor	Concrete	Grey	Chipping	16	0.4	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom K-5 Closet	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	6
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	16
6470	Entrance	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	8
6470	Closet between Classrooms K-5 & K-6	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	2
6470	Classroom K-6	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	4
6470	Classroom K-6	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Green	Chipping	10
6470	Classroom K-6	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Built-in cabinet	Wood	Green	Chipping	16

6470	Classroom K-6	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Window frame	Metal	Green	Chipping	8
6470	Classroom K-6	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	8
6470	Classroom K-6 Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	3
6470	Classroom K-6 Closet	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	2
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	10
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	6
6470	Former Boy's Locker Room Entance from Hallway	no	W3	Concrete	Blue	Chipping	12	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Boy's Locker Room Entance from Hallway	no	W4	Concrete	Blue	Efflorescence	10	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Boy's Locker Room Entance from Hallway	no	Ceiling	Plaster	White	Efflorescence	10	-0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Boy's Locker Room Entance from Hallway	no	Floor	Concrete	Red	None	4	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Women's Restroom adjacent to Boy's Locker Room	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Men's Restroom adjacent to Boy's Locker Room	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Storage Room S-7 across from Classroom K-5	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Girl's Locker Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	6
6470	and Showers	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Girl's Locker Room Restroom	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Girl's Locker Room Showers	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Room	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Gym	yes	W1	Concrete	Tan	Chipping	10	0.1	N/A	Door Frame	Metal	Blue	Chipping	10	
6470	Gym	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	12
6470	Gym	yes	W2	Concrete	Tan	Chipping	8	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Gym	yes	W3	Concrete	Tan	Efflorescence	12	0	N/A	Door Frame	Metal	Brown	Chipping	12	
6470	Gym	yes	W4	Concrete	Tan	Chipping	6	0.1	N/A	Ait Vent	Metal	Blue	Chipping	10	
6470	Gym Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	45
6470	Gym Office	yes	Ceiling	Plaster	White	Efflorescence	24	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Gym Office Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	8
6470	Gym Office Restroom	yes	Floor	Concrete	Red	Chipping	10	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Gym Equipment Room	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Mechanical Room in Hallway to Gym	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Boy's Locker Room Entrance From Gym	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Boy's Locker Room Restroom	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Boy's Locker Room Shower	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Storage Room behind Teacher's Dining Room	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Teacher's Dining Room	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	9
6470	Kitchen Dry Storage Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Red	Chipping	5
6470	Kitchen Office	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Red	Chipping	6
6470	Kitchen	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	8
6470	Kitchen Restroom	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Red	Chipping	8
6470	Kitchen Refrigerator Room	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Custodial Closet by Kitchen	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Red	Chipping	6
6470	Cafeteria	yes	Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Plaster	Blue	Chipping	30
6470	Cafeteria	yes	W1	Concrete	Blue	Chipping	15	-0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Former Music Ensemble Room	yes	W1	Concrete	Green	Chipping	4	0.1	N/A	Door Frame	Metal	Green	21	0.3	
6470	ISS Room	yes	W1	Concrete	Green	Chipping	5	0.1	N/A	Door Frame	Metal	Green	7	0.1	
6470	ISS Room	yes	W4	Concrete	Green	Chipping	12	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Occupational and PT Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	18	0
6470	Occupational and PT Office	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Window frame	Metal	Green	6	0
6470	Special Education Liason Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	14	0.2
6470	Special Education Liason Office	yes	W3	Concrete	Green	Chipping	5	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Auditorium	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Concrete	White	Chipping	6
6470	Auditorium	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Concrete	White	Chipping	8
6470	Auditorium Stage	yes	W2	Concrete	Black	Chipping	15	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Auditorium Stage	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Stair stringer	Metal	Black	Chipping	6

6470	Auditorium Stage	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Black	Chipping	12
6470	Auditorium Stage	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Stair stringer	Metal	Black	Chipping	6
6470	Auditorium Stage	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Black	Chipping	12
6470	at Rear of Auditorium	no	W2	Concrete	Tan	Chipping	8	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Control Room at Rear of Auditorium	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Window sill	Metal	Blue	Chipping	6
6470	Auditorium	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Storage Room to Left of Stage	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	A	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing D	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Storage Room to Right of Stage	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing A	no	NO ACCESS	No Access	No Access	No Access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing B	no	NO ACCESS	No Access	No Access	No Access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing B Restroom	no	NO ACCESS	No Access	No Access	No Access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing C Restroom	no	NO ACCESS	No Access	No Access	No Access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing C	no	NO ACCESS	No Access	No Access	No Access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Dressing D	no	NO ACCESS	No Access	No Access	No Access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Music Room	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Music Room Closet	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Science Room	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	18
6470	Science Room Closet at Rear of Room	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	4
6470	Science Room Closet at Front of Room	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Nurse's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	4
6470	Women's Restroom adjacent to Nurse's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	4
6470	Nurse's Office Storage Area across from Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	2
6470	Nurse's Office Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	1
6470	Office inside Nurse's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	1
6470	Nurse's Office Exam Room	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	2
6470	Nurse's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	7
6470	Men's Restroom by Cafeteria	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	4
6470	Cafeteria	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Red	Chipping	6
6470	Principal's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	6
6470	Main Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	4
6470	Work Room/Copy Room/Office Supplies	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	5
6470	Hallway inside Main Office to Principal's Office	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Administrative Assistant Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	4
6470	Main Office Mechanical Room	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	4
6470	Principal's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	2
6470	Principal's Office Restroom	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Counselor's Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	6
6470	Telecommunication Equipment Room	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Classroom 101	yes	W1	Sheetrock	Yellow	Flaking	10	0.1	Negative	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101	yes	W2	Sheetrock	Yellow	Flaking	5	-0.1	Negative	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101	yes	W4	Concrete	White	Flaking	5	0.2	Negative	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101	yes	W4	Concrete	Yellow	Flaking	2	0.2	Negative	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101 Small Restroom	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101 Large Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Classroom 101 Large Restroom	yes	W1	Sheetrock	White	Flaking	10	0.1	Negative	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 101 Large Restroom	yes	W2	Sheetrock	White	Flaking	5	0.2	Negative	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 102	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10

6470	Classroom 102	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Office 102A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Office 102A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Office 103A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Office 103A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Classroom 103	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 103	yes	W1	Sheetrock	White	Flaking	3	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 103	yes	W4	Sheetrock	White	Flaking	2	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 104	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 104	yes	W1	Sheetrock	White	Flaking	10	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 104	yes	W1	Sheetrock	Blue	Flaking	25	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 104	yes	W3	Concrete	Blue	Flaking	10	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 104	yes	W4	Concrete	Blue	Flaking	10	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 104	yes	W4	Sheetrock	Blue	Flaking	25	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 105	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 105	yes	W1	Sheetrock	Blue	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 105	yes	W1	Sheetrock	White	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 106	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 106	yes	W1	Sheetrock	White	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 106	yes	W2	Sheetrock	Blue	Flaking	5	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 107	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 107	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Classroom 108	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue/WHITE	Flaking	10
6470	Classroom 108	yes	W4	Concrete	Blue	Flaking	5	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 109	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 109	yes	W4	Concrete	Blue	Flaking	10	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom across from Classroom 108	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Girl's Restroom across from Classroom 108	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Girl's Restroom across from Classroom 108	yes	W4	Concrete	Blue	Flaking	5	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom across from Classroom 108	yes	W4	Concrete	Tan	Flaking	5	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom across from Classroom 108	yes	Ceiling	Concrete	Tan	Flaking	10	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom across from Classroom 108	yes	Ceiling	N/A	N/A	N/A	N/A	N/A	N/A	DUCT	Metal	Tan	Flaking	10
6470	Custodial Closet across from Classroom 109	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Tan	Flaking	10
6470	Custodial Closet across from Classroom 109	no	W4	Concrete	White	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Boy's Restroom across from Classroom 109	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Boy's Restroom across from Classroom 109	yes	Ceiling	Concrete	White	Flaking	10	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 110	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 110	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Classroom 111	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Grey	Flaking	10
6470	Classroom 112	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Classroom 112	yes	W1	Sheetrock	Blue	Flaking	15	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 112	yes	W2	Sheetrock	Blue	Flaking	5	0	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 112	yes	W4	Sheetrock	Blue	Flaking	10	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 113	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Classroom 114	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Classroom 114	yes	W1	Sheetrock	White	Flaking	2	-0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 114	yes	W4	Sheetrock	Blue	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Classroom 114	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	COAT RACK	Wood	Blue	Flaking	20
6470	Elevator	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Elevator Mechanical Room adjacent to Elevator	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10

6470	Girl's Restroom near Elevator	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Girl's Restroom near Elevator	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	5
6470	Girl's Restroom near Elevator	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Window frame	Metal	Blue	Flaking	20
6470	Girl's Restroom near Elevator	yes	W4	Concrete	White	Flaking	2	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom near Elevator	yes	Ceiling	N/A	N/A	N/A	N/A	N/A	N/A	DUCT	Metal	White	Flaking	5
6470	near Elevator	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Boy's Restroom near Elevator	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Boy's Restroom near Elevator	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	5
6470	Boy's Restroom near Elevator	yes	Ceiling	Concrete	White	Flaking	10	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Custodial Closet across from Elevator	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Storage Room across from Classroom 114	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Storage Room across from Classroom 114	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	5
6470	Electrical Room by IMC	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Men's Restroom near Main Lobby	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Men's Restroom near Main Lobby	yes	W4	N/A	N/A	N/A	N/A	N/A	N/A	Urinal Divider	Metal	Blue	Flaking	5
6470	Men's Restroom near Main Lobby Pipe Chase	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	2
6470	Women's Restroom near Main Lobby	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	IMC	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	5
6470	IMC	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	IMC	yes	W2	Concrete	Blue	Flaking	2	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	IMC	yes	W2	Sheetrock	Green	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	IMC	yes	Floor	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Grey	Flaking	40
6470	IMC 1 Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	IMC 2 Storage	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Copy Room	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Open Storage Area adjacent to Copy Room	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	IMC 4 Storage	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	IMC 5 Office	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5
6470	Hallway outside Classrooms K-3 to K-6	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Entrance	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Entrance	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway to Gym	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Stairwell from Cafeteria to Exterior Entrance	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway to Left of Stage to Exterior Entrance	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway to Right of Stage to Exterior Entrance	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Main Lobby	yes	W1	Plaster	Tan	Chipping	10	0.4	N/A	Columns	Concrete	Tan	Flaking	30
6470	Main Lobby	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	22
6470	Main Lobby	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Green	Chipping	4
6470	Main Lobby	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	18
6470	Main Lobby	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Brown	Chipping	32
6470	Hallway outside Nurse's Office	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	10
6470	Entrance	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Columns	Concrete	Green	Chipping	30
6470	Entrance	yes	W4	Concrete	Green	Chipping	6	0.1	N/A	Columns	Concrete	Green	Chipping	35
6470	Main Entrance	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	8
6470	Hallway from Main Lobby to IMC	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway outside Classrooms 102-103	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Hallway outside Classrooms 102-103	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	North Stairwell next to Classroom 103	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Grey	Chipping	40
6470	Hallway outside Classrooms 104-105	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	5

6470	Boy's Restroom across from Classroom 208	yes	W1	Concrete	White	Chipping	10	0.3	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Storage D	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Storage D Pipe Chase	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom across from Classroom 209	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Girl's Restroom across from Classroom 209	yes	W2	Concrete	White	Chipping	5	-0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Girl's Restroom across from Classroom 209	yes	W3	Concrete	White	Chipping	10	0	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 208	yes	W1	Concrete	Blue	Chipping	2	0.2	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom 208	yes	W3	Concrete	Blue	Chipping	5	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 209	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom 209	yes	W3	Concrete	Green	Chipping	5	-0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Office 210A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	10
6470	Office 210A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Office 210A Mechanical Room	no	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 210	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	10
6470	Classroom 210	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom 210	yes	W4	Concrete	Blue	Chipping	5	0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 211	yes	W1	Concrete	Yellow	Flaking	10	0	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom 211	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	5
6470	Classroom 211	yes	W2	Concrete	Yellow	Flaking	10	0	N/A	Radiator	Metal	Blue	Chipping	10
6470	Classroom 211	yes	W3	N/A	N/A	N/A	N/A	N/A	N/A	Coat Rack	Wood	Yellow	Chipping	10
6470	Classroom 211	yes	W4	Concrete	Yellow	Flaking	20	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 211 Closet	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 212	yes	W1	Plaster	Blue	Flaking	5	-0.2	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 212	yes	W2	Plaster	Tan	Flaking	2	0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 212	yes	W3	Plaster	Tan	Flaking	5	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 212	yes	W4	Plaster	Blue	Flaking	2	-0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Office 212A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 213	yes	W1	Plaster	Purple	Flaking	10	0.2	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 213	yes	W2	Plaster	Purple	Flaking	15	0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 213	yes	W4	Plaster	Purple	Flaking	10	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Office 213A	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Office 213A	yes	W3	Concrete	Yellow	Chipping	10	0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 214	yes	W1	Plaster	Purple	Flaking	5	0.1	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 214	yes	W2	Plaster	Purple	Flaking	5	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 214 Closet	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 215	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 215	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Classroom 215	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Storage Room adjacent to Classroom 215	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Storage Room adjacent to Classroom 215	no	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	10
6470	Storage Room adjacent to Classroom 215	no	Ceiling	Concrete	White	Flaking	5 SF	0.2	Negative	N/A	N/A	N/A	N/A	N/A
6470	Women's Restroom across from Classroom 215	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	across from Classroom 215	no	Ceiling	Concrete	White	Chipping	5	0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 216	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 216 Restroom	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Classroom 217A	yes	W1	Concrete	Blue	Flaking	70	0.1	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom 217A	yes	W3	Plaster	Blue	Chipping	50	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 217A	yes	W4	Plaster	Blue	Chipping	50	-0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 217B	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Coat rack	Wood	Green	Chipping	10
6470	Classroom 217B	yes	W2	Plaster	Green	Flaking	10	0.1	N/A	Door Frame	Metal	Blue	Chipping	10

6470	Classroom 217B	yes	W3	Plaster	Green	Flaking	20	0.1	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Classroom 217B	yes	W4	Concrete	Tan	Cracking	10	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 217B	yes	Ceiling	Plaster	Blue	Efflorescence	10	0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Classroom 217C	yes	W1	Concrete	Blue	Flaking	70	0.2	N/A	Coatrack	Wood	Blue	Chipping	20
6470	Classroom 217C	yes	W3	Plaster	Blue	Chipping	40	-0.1	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Hallway outside Classrooms 216-201	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Chipping	10
6470	Hallway outside Classrooms 216-201	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	20
6470	Hallway outside Classrooms 216-201	yes	W1	Concrete	White	Flaking	5	0.1	Negative	N/A	N/A	N/A	N/A	N/A
6470	Hallway outside Classrooms 202-203	yes	W1	Concrete	White	Cracking	10	-0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway outside Classrooms 202-203	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	10
6470	217C	yes	W2	Concrete	White	Cracking	40	-0.1	N/A	Hand rails	Metal	Grey	Chipping	10
6470	217C	yes	W3	Concrete	White	Cracking	10	-0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	217C	yes	W4	Concrete	White	Cracking	40	-0.2	N/A	N/A	N/A	N/A	N/A	N/A
6470	North Stairwell next to Classroom 203	yes	Floor	N/A	N/A	None	N/A	N/A	N/A	Hand rails	Metal	Grey	Chipping	40
6470	Hallway outside Classrooms 204-205	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Chipping	10
6470	Hallway outside Classrooms 206-207	yes	W1	Concrete	White	Cracking	40	0.2	N/A	Door	Metal	Blue	Chipping	10
6470	217A	yes	W2	Concrete	White	Cracking	40	0.2	N/A	Door	Metal	Blue	Chipping	10
6470	East Stairwell next to Classroom 207	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Grey	Chipping	40
6470	Hallway outside Classrooms 208-209	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	20
6470	Hallway outside Classrooms 208-209	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Hallway outside Classrooms 208-209	yes	W4	Concrete	White	Chipping	2	-0.3	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway outside Classrooms 210-211	yes	W1	Concrete	White	Flaking	10	-0.2	N/A	Door	Metal	Blue	Flaking	20
6470	Hallway outside Classrooms 210-211	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	217B	yes	NO DAMAGE	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6470	South Stairwell next to Classroom 211	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Grey	Chipping	40
6470	Hallway outside Classrooms 212-213	yes	W1	Plaster	White	Cracking	8	0.1	N/A	N/A	N/A	N/A	N/A	N/A
6470	Hallway outside Classrooms 212-213	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door	Metal	Blue	Flaking	20
6470	Hallway outside Classrooms 212-213	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	Hallway outside Classrooms 214-215	yes	W1	Concrete	White	Chipping	N/A	N/A	N/A	Door	Metal	Blue	Flaking	20
6470	Hallway outside Classrooms 214-215	yes	W1	N/A	N/A	N/A	N/A	N/A	N/A	Door Frame	Metal	Blue	Flaking	10
6470	217C	yes	Floor	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Grey	Chipping	10
6470	West Stairwell next to Classroom 214	yes	W2	N/A	N/A	N/A	N/A	N/A	N/A	Hand rails	Metal	Grey	Chipping	40

XRF Reading	Additional	Debris Present	Quantity (sf)	Contents Need to be	On-going	Plastering	Comments/ Description/ Notes
0	N/A						
0.1	N/A						
0.2	N/A						
0.1	N/A						
N/A	N/A						
-0.4	N/A						
0	N/A						
0	N/A						
N/A	N/A						
N/A	N/A						
-0.1	N/A						
-0.1	N/A						
-0.1	N/A						
N/A	N/A						
0.2	N/A						
0	N/A						
0	N/A						
0.3	N/A						
0.1	N/A						
0.1	N/A						
0.2	N/A						
0.2	N/A						
0.2	N/A						
0.4	N/A						
0	N/A						
0.2	N/A						
0.2	N/A						
N/A	N/A						
0.2	N/A						
0.2	N/A						
0.1	N/A						
0.4	N/A						
0	N/A						
0.4	N/A						
0.2	N/A						
0.3	N/A						
0.1	N/A						
N/A	N/A						
0.2	N/A						
0.2	N/A						
0.3	N/A						
0.2	N/A						
0	N/A						
0	N/A						
N/A	N/A						
0	N/A						
N/A	N/A						
0.1	N/A						
0.2	N/A						
0	N/A						
0.4	N/A						
0	N/A						
0.1	N/A						
0.1	N/A						

0.3	N/A						
0.1	N/A						
0.1	N/A						
0.1	N/A						
0.4	N/A						
0.3	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						
0.3	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.1	N/A						
0.1	N/A						
N/A	N/A						
0	N/A						
0	N/A						
0.3	N/A						
N/A	N/A						
0.1	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						
0.2	N/A						
0.2	N/A						
0.1	N/A						
0.1	N/A						
0.3	N/A						
N/A	N/A						
-0.3	N/A						
-0.3	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						
0.1	N/A						
0.1	N/A						
N/A	N/A						
0.2	N/A						

0.1	N/A						
0.2	N/A						
0.1	N/A						
N/A	N/A						
0.2	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						
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N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
N/A	N/A						
0.2	N/A						
0.2	N/A						
0.2	N/A						
0	N/A						
0.2	N/A						
0	N/A						
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0	N/A						
0.2	N/A						
0	N/A						
0.2	N/A						
-0.3	N/A						
0.1	N/A						
0.2	N/A						
0	N/A						
N/A	N/A						
0.1	N/A						
0.3	N/A						
0.1	N/A						
N/A	N/A						
0.2	N/A						
N/A	N/A						
0	Negative						
N/A	N/A						
N/A	N/A						
N/A	N/A						
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N/A	N/A						
0	Negative						
N/A	N/A						
N/A	N/A						
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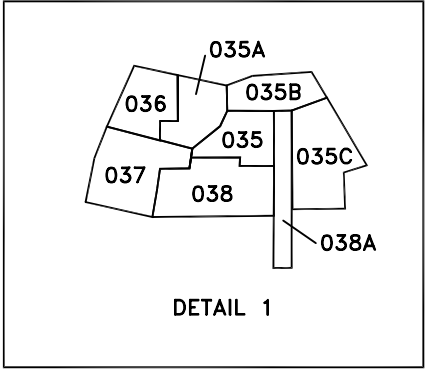
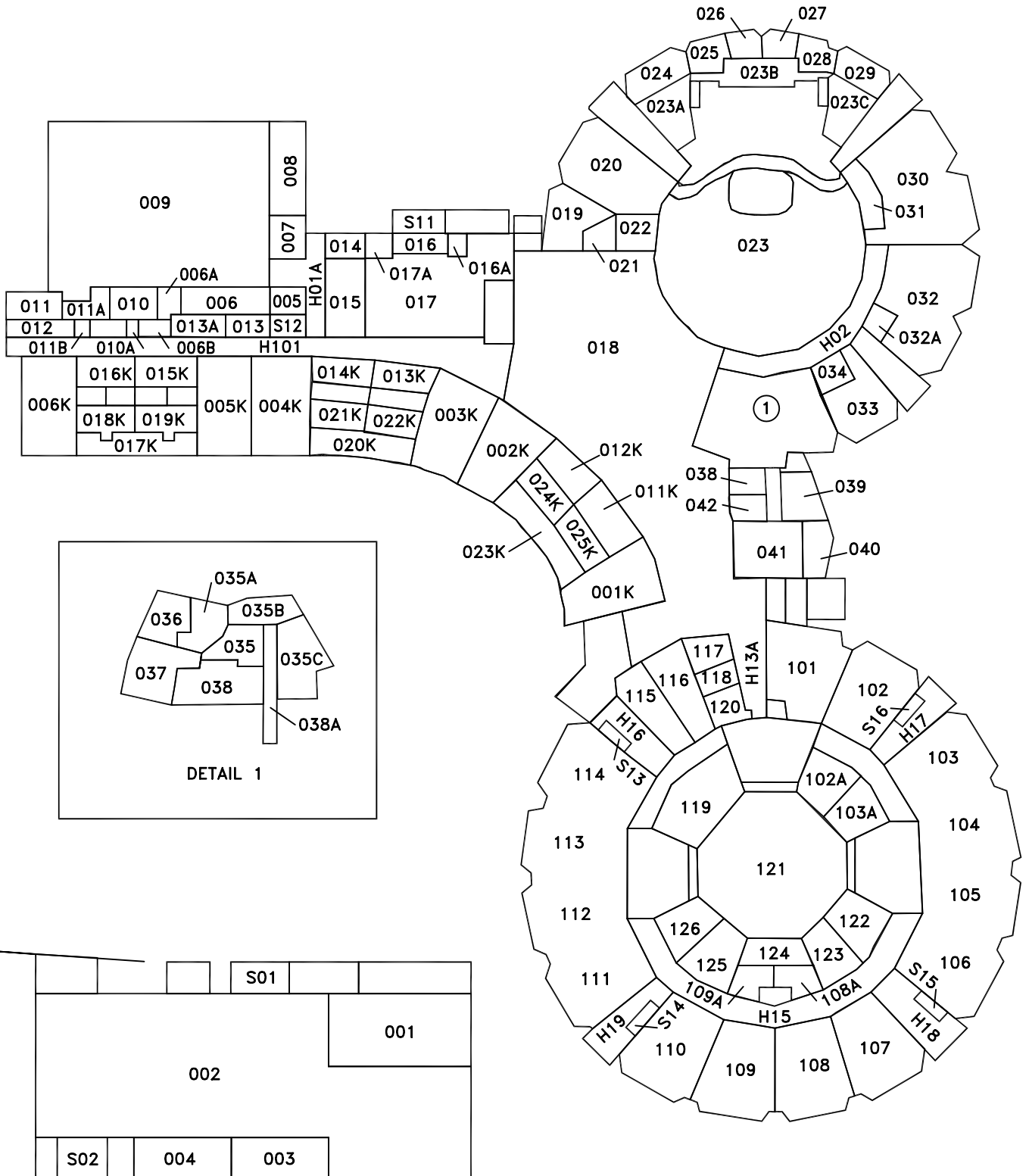
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0	Negative						
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0	Negative						
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0	Negative						
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N/A	N/A						
0.1	Negative						
0	Negative						
0	Negative						

0	Negative						
0	Negative						
0	Negative						
N/A	N/A						
0.2	Negative						
N/A	N/A						
0	Negative						
0	Negative						
N/A	N/A						
0	Negative						
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0.1	Negative						
0.2	Negative						
0	Negative						
0	Negative						
0	Negative						
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N/A	N/A						
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0.1	Negative						
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N/A	N/A						
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0	N/A						
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0	Negative						
N/A	N/A						
0	N/A						
N/A	N/A						
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N/A	N/A						
N/A	N/A						
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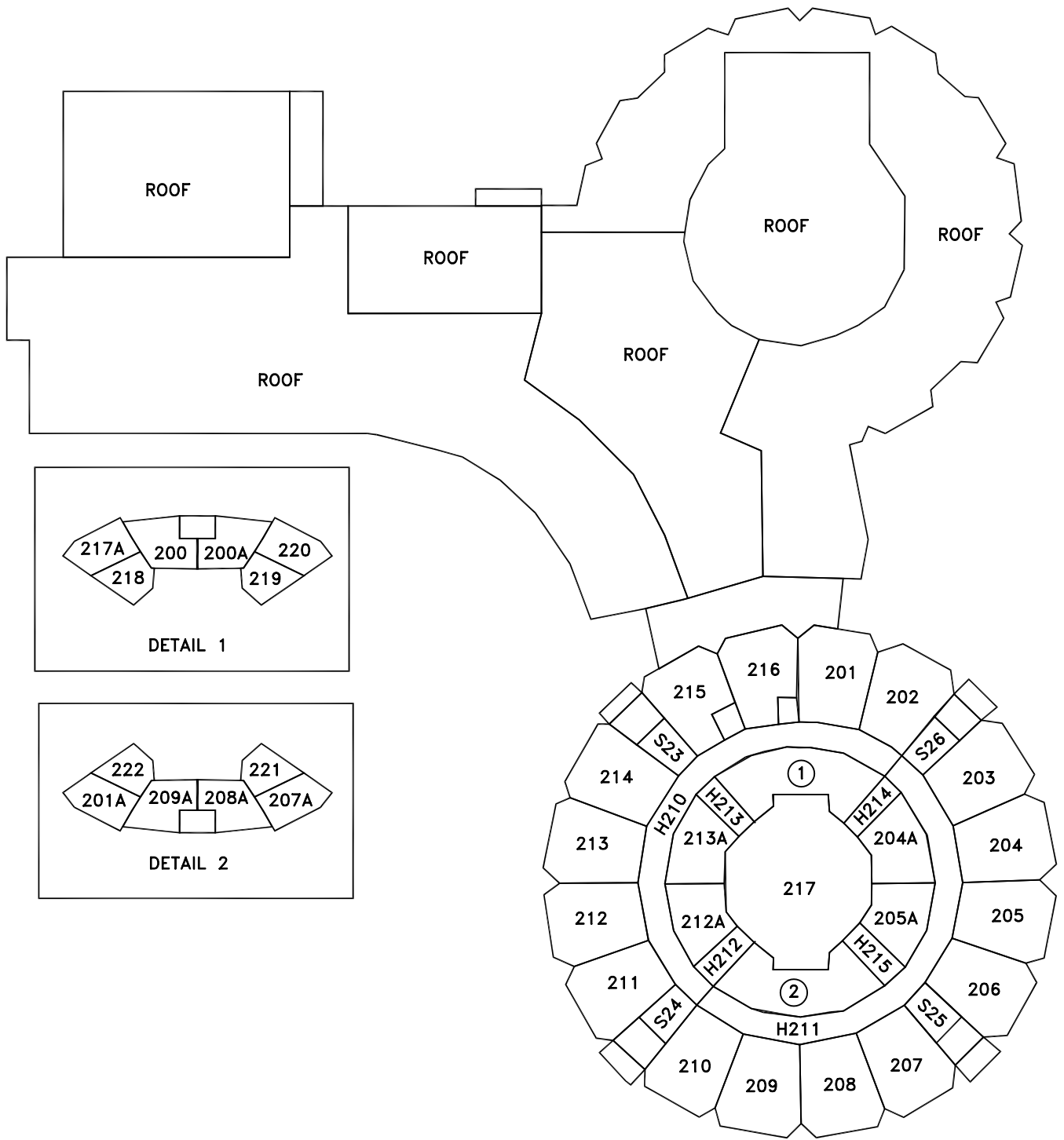
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BASEMENT FLOOR PLAN

NOT TO SCALE

SCHOOL NUMBER - 647026 - 01 FLOOR - 01



DETAIL 1

DETAIL 2

NOT TO SCALE

SCHOOL NUMBER - 64702 - FLOOR - 01