

THE SCHOOL DISTRICT OF PHILADELPHIA
Office of Capital Programs
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ADDENDUM No. 03

Subject: Wright Elementary School – Major HVAC Renovation
SDP Contract No.

GC: B-089(c) OF 2018/2019

MC: B-079(c) OF 2018/2019

PC: B-090(c) OF 2018/2019

EC: B-080(c) OF 2018/2019

Location: 2201-51 N. 28TH ST, PHILADELPHIA, PA 19132

This ADDENDUM dated 1/26/2022 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, unless modified by prior addenda, if any.

1. ARTICLE CC-4.15 CLEANING UP: DELETE General Conditions GC-4.15.4, 4.15.6 and 4.15.11. They have been superseded by Section 01 1750 PROJECT CLEANLINESS

2. RFI'S AND RESPONSES

Question #1:

Does the Expansion tank need a new concrete pad?

Response:

Yes. General Contractor is to provide a new 4" high concrete pad that extends 6" (on all sides) past the equipment footprint is required. See attached A401.

Question #2:

Does the air compressor need a new concrete pad?

Response:

There is no air compressor within this project scope.

Question #3:

Does the AHU need a new concrete pad?

Response:

Yes. General Contractor is to provide AHU-4 with a new 4" high concrete pad that extends 6" (on all sides) past the equipment footprint is required. See attached A401. Other AHUs are supported from supplemental steel above the roof.

Question #4:

Drawing AD 101 & MD 401 do not agree with reference to the louvers. Please clarify.

Response:

Architectural plans take precedence. General Contractor to provide louvers per architectural drawings. See schedule on attached A501 as amended.

Question #5:

Is there a louver schedule? Please clarify.

Response:

Yes. See attached A501 as amended.

Question #6:

Drawing AD 101 Note 1 indicates patch and repair exterior wall at new equipment but there are no details for this work. Please clarify.

Response:

Any finishes damaged as a result of the work related to the HVAC equipment replacement shall be patched and repaired to match existing by the General Contractor per Keynote 1 of AD101.

Question #7:

Are elevations of the exterior of the building available for the contractors use?

Response:

Architectural building elevations are not available.

Question #8:

Drawing AD 103 & 104 show ceilings to be removed. Are all other rooms without ceilings since there is ductwork or piping to be removed from the room showing no ceiling removal. Please clarify.

Response:

Not all spaces have a finished ceiling (some are exposed). General Contractor is to remove and replace all ceiling tiles as indicated. See attached AD103, AD104, A103, and A104 as amended.

Question #9:

Drawing A103, A104 – Keynote #2: “Provide new 2’x4’ lay-in”

Drawing E101, E102 – Keynote #4 “Re-install existing lights

- a) Are we purchasing new light fixtures for these areas
- b) Can you provide a lighting drawing with locations?
- c) Can you provide a model number and any required controls?

Response:

a) The Electrical Contractor shall remove existing lighting and provide new lighting throughout the facility. See attached EL drawings.

b) See attached EL drawings.

c) See attached EL drawings.

Question #10:

Drawing E101, E102 – Keynotes 4&5: Can you provide a drawing showing quantity of light fixtures, fire alarm devices, CCTV, speakers, etc. to be removed and re-installed on new ceilings?

Response:

See attached ED101 and ED102.

Question #11:

Which Prime is responsible for temporary lighting and power in these areas?

Response:

Electrical Contractor is to provide temporary lighting as EC is responsible for disabling lighting during demolition scope.

Question #12:

Drawing ED103-AHU Demolition: Duct Detectors. Existing AHU's 1, 2, & 3 have existing duct detectors, test switches and modules in the supply and return ductwork installed during the 2017 fire alarm replacement.

- a) Do these six detectors, test switches, and modules get removed and deleted from the fire alarm programming?
- b) School District of Philadelphia does the annual fire alarm certification and maintenance on the existing fire alarm. Can you supply the name and number of the "Vendor" and will we be furnished with passwords and access to the programming?

Response:

- a.) **Electrical Contractor is to remove and furnish to SDP existing detectors, test switches, and modules per ED103. Electrical Contractor is to provide new smoke detector for new exterior air handling units per E103 keynote 3.**
- b.) **Electrical contractor is responsible for certifying the modified system. SDP will provide as needed to modify and certify the modified system.**

Question #13

Drawing P401 note 9 describes electrical work, please confirm this is on the electrical contractor.

Response:

Existing High Voltage Conduit indicated on P401 (as well as MD401 and M401) as a safety precaution to all trades.

Question #14

Water treatment spec section 232500 indicates a glycol feeder, however we don't see this equipment on the drawings anywhere. Will there be any glycol in this system? If so, what type and concentration?

Response:

No glycol feeder will be provided for this system. The dual temperature water system will not contain any glycol.

Question #15

P401 note 8 says Water softener provided by Tustin and to set on concrete pad, however this equipment appears to be a division 23 Mechanical spec. Who is responsible for the water treatment equipment? Tustin or the MC?

Response:

The plumbing contractor shall procure Tustin as a subcontractor to provide water treatment

system per P401 keynote 8 and specification section 23 2500.

Question #16

What is the height of the Boiler Room ceiling?

Response:

Boiler Room Ceiling is approximately 12'-6" above finished floor.

Question #17

Is there a crawl space under the Boiler Room?

Response:

No.

Question #18

Were drawings attached to Addendum #1?

Response:

No drawings were attached to Addendum #1. See edits to select Architectural drawings and new Electrical Lighting drawings attached to this addendum.

Question #19

The summary of work states that the PC is to furnish and install the new water softener. The Note on the plumbing drawings has the WS1 being provided by the Tustin Group. Should the PC carry an allowance for this other than the install?

Response:

Yes. The plumbing contractor shall procure Tustin as a subcontractor to provide water treatment system per P401 keynote 8 and specification section 23 2500.

Question #20

Electrical note 5 on Plans E102 & E103 notes that all Light Fixtures in given rooms will be removed and reinstalled in new drop ceiling. However, when referencing the Architectural RCPs A103 & A104, these notes indicate that the some of the 2x4 lay in fixtures and exit signs are to be replaced with new. Which is correct?

Response:

Lighting scope has been amended per new EL Drawings. Electrical Contractor shall remove all existing and provide all new lighting fixtures throughout the building. See attached EL Drawings for new general lighting scope.

Question #21

Will a door and louver schedule be provided?

Response:

Yes. See attached A501 as amended.

Question #22

Drawing A 401 indicates details for the Chiller pad is on the structural drawings, but none are.

Response:

See revised S001 attached.

Question #23

Are each contractor responsible for their own dumpsters?

Response:

Yes. See Section 01 1750 PROJECT CLEANLINESS for detailed requirements

Question #24

There is no specification for the repair of the flooring at the UV removal?

Response:

No specification will be provided for this work. Provide flooring repair around unit ventilators per keynote #1 of A101 and A102 to match existing finishes.

Question #25

Which contract is responsible for the removal & reinstallation of the ceiling for duct & pipe work?

Response:

The General Contractor is responsible for removal of existing ceilings and installation of new ceilings. See attached edited AD103, AD104, A103, and A104.

Question #26

Please advise if mechanical and electrical equipment are to be brought in and out of the boiler room through the wall opening that will exist due to that exterior door being replaced.

Response:

Per GC-4.3, each contractor is solely responsible for all construction means, methods, techniques, sequences, and procedures for coordination all portions of the work under the contract.

Question #27

A spec page is out of place. Page 783 of the Bid documents (Its in between the last page of the plumbing spec and the first of the mechanical.)The page is Interior Painting 09 9123 page 6 of 6.

Response:

09 9123-6 should be located as page 552 of 935 of the contract documents.

Question #28

Drawing S-001 & detail 13 on M502 show duct supports. Are these supports by the mechanical contractor?

Response:

The General Contractor is responsible for providing baseplates and bolts to the structure per S001 Details.

The Mechanical Contractor is responsible for providing duct support members on roof per M502/13.

Question #29

Acoustical ceiling spec does not match up to the data sheet.

Calling for a 2x4 tile, the tile specified tile only comes in 2x2. This is also a higher price tier tile and may cause issues with future replacement work.

Response:

See attached Specification Section 09 5100 Acoustical Ceilings.

Drawings

1. EDIT the following sheets as attached:
 - AD102 – Architectural Second Floor Demolition Plan

- AD103 – Architectural First Floor Demolition Reflected Ceiling Plan
 - AD104 – Architectural Second Floor Demolition Reflected Ceiling Plan
 - A101 – Architectural First Floor Plan
 - A102 – Architectural Second Floor Plan
 - A103 – Architectural First Floor Reflected Ceiling Plan
 - A104 – Architectural Second Floor Reflected Ceiling Plan
 - A401 – Architectural Enlarged Floor Plans
 - A501 – Architectural Details
 - S001 – Structural General Notes
2. ADD the following sheets as attached:
- EL001 – Electrical Lighting General Notes, Legends, and Abbreviations
 - EL101 – Electrical Lighting First Floor Demolition Plan
 - EL102 – Electrical Lighting Second Floor Demolition Plan
 - EL103 – Electrical Lighting First Floor New Work
 - EL104 – Electrical Lighting Second Floor New Work
3. All Drawings
- EDIT total sheet count from 64 to 69.
4. G001
- EDIT the Drawing List to add the following:
 - 65 EL001 – Electrical Lighting General Notes, Legends, and Abbreviations
 - 66 EL101 – Electrical Lighting First Floor Demolition Plan
 - 67 EL102 – Electrical Lighting Second Floor Demolition Plan
 - 68 EL103 – Electrical Lighting First Floor New Work
 - 69 EL104 – Electrical Lighting Second Floor New Work
5. ED101
- DELETE references to general lighting scope. This scope has been defined on new drawing EL101.
6. ED102
- DELETE reference to general lighting scope. This scope has been defined on new drawing EL102.
7. E101
- DELETE references to general lighting scope. This scope has been defined on new drawing EL103.
 - Exit Signage scope to remain defined on E101.
8. E102
- DELETE references to general lighting scope. This scope has been defined on new drawing EL104.
 - Exit Signage scope to remain defined on E102.
9. E401
- DELETE *Electrical New Work Enlarged Boiler Room Plan – Lighting*. This scope has been defined on new drawing EL103.
 - DELETE keynotes 3,4,5,6, and 7.

Specifications

1. ADD Specification Section 26 0923 Light Control Systems as attached.

2. EDIT Specification Section 09 5100 as attached.
3. SECTION 23 3100

ADD the following:

Section 2.05 Duct Cleaning

A. Mechanical Contractor shall submit a Duct Cleaning Plan prior to startup and any Testing and Balancing work. The plan shall include but is not limited to:

1. Scope of Work identifying HVAC components are to be cleaned, as well as those components not to be cleaned.
2. Itemize specific environmental engineering controls required for workspace, and special work requirements.
3. Detail cleaning work means and methods.
4. Name, contact information, and functional tasks performed by each representative of each firm and contractor involved with the work.

B. All Existing to remain ductwork shall be cleaned. This includes supply, return, exhaust/relief, and outside air ductwork.

C. HVAC SYSTEM PREPARATION

1. Service Openings:

- a. Access duct cleaning work through existing or new service openings, allowing safe access and thorough cleaning throughout specified components.
- b. Work through service openings sized to allow mechanical tool entry and visual inspection, as required for cleaning activities.
- c. Where possible, work through existing service openings.
- d. Where new service openings are required, install openings as follows:
 1. Do not degrade structural, thermal, or functional system integrity, and comply with applicable SMACNA duct construction methods.
 2. Install service openings complying with UL and NFPA standards, federal, state, and local code requirements, and requirements of Authorities Having Jurisdiction.
 3. Where required, install duct access doors complying with UL Standard 181, and fabricated with materials classified for flammability and smoke developed.
 4. Where required, install tapes complying with UL 181A.
 5. Where required, install closure panels fabricated from equivalent material and same or heavier gage.
 6. Mechanically fasten closure panels over service openings with screws or rivets at perimeter, maximum 4 inches spacing.
 7. Fabricate closure panel to overlap duct opening perimeter, minimum 1 inch .
 8. Insulate closure panels to match adjacent duct interior and exterior surfaces.
 9. Seal rigid fibrous glass duct systems in accordance with NAIMA recommended practices.
 - a) Install closure techniques: UL Standard 181 or UL Standard 181A.
 10. Close service openings installed in rigid fibrous glass ductwork and metal ductwork with fibrous glass liner with no exposed fibrous glass edges exposed to airstream.
- e. Install service openings that can be reopened for future inspection or remediation.
 1. Mark outside of duct and report service opening locations to Owner in project closeout documents.
- f. Do not cut service openings into flexible duct.
 1. Disconnect flexible duct at both ends as required for inspection and cleaning.
 2. Reconnect flexible duct ends in accordance with SMACNA standards.

D. CLEANING - GENERAL

1. Perform HVAC system cleaning in accordance with ACR, The NADCA Standard.

2. Remove visible non-adhered particulates.
 - a. Clean HVAC components employing agitation device to dislodge contaminants from HVAC component surface, and then capturing contaminants with vacuum collection device.
 1. Acceptable methods include those that do not damage integrity of ductwork and other system components and does not damage porous surface materials including internal insulation and duct lining.
 - b. Clean HVAC components using source removal mechanical cleaning methods designed to extract contaminants from within HVAC system and safely remove contaminants from facility.
 - c. Select source removal methods rendering HVAC system visibly clean and capable of passing cleanliness verification methods as described in ACR, The NADCA Standard.
 - d. Do not employ cleaning method, or combination of methods, that can damage HVAC system components or negatively alter system integrity.
 - e. Do not damage HVAC system and components with wet cleaning, power washing, steam cleaning and other wet process cleaning.
3. Apply cleaning materials in accordance with manufacturer's instructions.
 - a. Do not apply cleaning agents or water to electrical, fibrous glass or other porous HVAC system components.
4. Capture removed contamination and cleaning materials and legally dispose.
5. Verify HVAC system surface and component cleanliness in accordance NADCA Standard.
6. Particulate Collection:
 - a. Employ contaminant removal methods incorporating vacuum collection devices operated continuously during cleaning.
 1. Connect vacuum collection device to component being cleaned through service opening.
 2. Employ vacuum collection device of sufficient capacity to maintain areas being cleaned under negative pressure, containing debris is contained and preventing contaminant migration to adjacent areas.
 - b. When possible, discharge ducted exhaust air from vacuum collection devices outdoors, keeping discharge air clear of outdoor air intakes, operable windows, and other locations allowing outdoor air entry.
 1. Do not violate outdoor environmental standards, codes or regulations.
 2. Do not discharge unfiltered air from vacuum collection devices outdoors.
 - c. When necessary to exhaust vacuum collection devices indoors, including hand-held and wet-vacuum machines, keep discharge air in work area, and provide machine air discharge HEPA filtration, rated at 99.97 percent collection efficiency for 0.3 micron particles and larger.

E. AIR DUCT SYSTEMS:

1. Clean air ducts to remove non-adhered substances.
2. Access air duct interiors through service openings in system that are large enough to accommodate mechanical cleaning procedures and allow for cleanliness verification.
3. Use mechanical agitation methods to remove particulate, debris, and non-adhered particulate.
4. Capture dislodged substances with vacuum collection device.
5. Do not employ cleaning methods that damage HVAC components.
6. Mark position of dampers and air-directional mechanical devices inside HVAC system prior to cleaning.
7. When cleaning is complete, restore dampers and devices to their marked positions.
8. After cleaning, verify cleanliness of HVAC system surfaces and components in accordance ACR, The NADCA Standard.
 1. Operate HEPA-filtered negative air machines that discharge continuously during cleaning process.
 2. Mechanically remove adhered dirt and contaminants in accordance with ACR, The NADCA Standard.

F. INTERNALLY INSULATED DUCT SYSTEM COMPONENTS AND SOUND ATTENUATORS

1. Employ cleaning methods that do not damage internal insulation or sound attenuating components, and that render system capable of passing cleanliness verification tests.
2. Clean fibrous glass duct liner or duct board present in equipment or air ducts employing mechanical agitation methods to remove particulate, debris, and non-adhered particulate.
3. Do not create abrasions, breaks, or tears to fibrous glass liner or duct board surfaces.
4. Maintain HVAC system under constant negative pressure when cleaning internal insulation components.
5. Do not wet insulation components.
6. Identify for replacement fibrous glass materials with evidence of damage, deterioration, delaminating, friable materials, biological growth, or moisture that cannot be restored by cleaning or resurfacing.
7. When required, remediate exposed, damaged insulation exposed to HVAC system air stream.
 - a. Scrape insulation and adhesive residue from metal duct system surfaces that have undergone degraded insulation removal.
 - b. Remove loose, visible debris prior to installation of new insulation.
 - c. When replacement insulation installation is complete, verify that new fibrous glass surfaces are capable of compliance with NADCA cleanliness verification requirements.

G. SPECIAL TECHNIQUES

1. Engineering Controls:
 - a. Employ engineering controls to maintain worker and building occupant safety, and prevent contaminating surfaces outside work area.
 1. Comply with government regulations, and industry standards and guidelines relevant to working in the facility environment in which the work is located.
 2. Control odors, mists, and aromatic vapors during cleaning process.
 - b. Controlling Product Emissions:
 1. Apply cleaning agents and other chemicals in accordance with manufacturer's recommended procedures and product application instructions, including exhaust ventilation.
2. Negative Duct Pressurization:
 - a. Throughout cleaning process, keep HVAC system and associated air ducts at negative differential pressure, relative to indoor non-work area.
 - b. Maintain negative pressure differential between portion of HVAC duct system being cleaned and surrounding indoor occupant spaces.
 - c. Continuously monitor and verify correct pressure differential.
 - d. When performing vacuum collection, employ negative air machine drawing air from equipment being cleaned.
 - e. When negative air machine is not fitted with HEPA filtration, duct exhaust air from negative air machine to outdoor location, keeping discharge air clear of outdoor air intakes, operable windows, and other locations where outdoor air enters building.
 1. Do not violate outdoor environmental standards, codes or regulations by releasing debris.
 2. Do not discharge unfiltered air from vacuum collection devices outdoors.
3. Microbial Agents:
 - a. Apply antimicrobial agents only when active biological growth is reasonably suspected, or where unacceptable levels of biological contamination have been verified through testing.
 - b. Apply antimicrobial agents after removal of surface deposits and debris.
 - c. Apply antimicrobial agents in accordance with antimicrobial agent manufacturer's written recommendations and associated EPA registration listing.

H. FIELD QUALITY CONTROL

1. Inspect work to verify cleanliness immediately after HVAC system component cleaning and prior to placing system in operation.
2. Do not apply treatment, coating, or antimicrobial agent to cleaned HVAC system or components until the work has been inspected and determined to be acceptable.

3. Visual Inspection:
 - a. When cleaning is complete, perform final inspection in presence of Owner.
 - b. Perform visual inspection of porous and non-porous HVAC system component surfaces. Verify HVAC system is visibly clean as defined in ACR, The NADCA Standard.
 - c. If no contaminants are evident through visual inspection, HVAC is considered clean and acceptable.
 - d. If contaminants are evident through visual inspection, repeat cleaning system areas where contaminants are visible.
 1. Notify Owner to schedule cleanliness re-inspection.
 4. Surface Comparison Test for Porous Surfaces Only:
 - a. If visual inspection is inconclusive or disputed, then perform Surface Comparison Test in accordance with ACR, The NADCA Standard.
 1. Attach vacuum brush to operating contact vacuum.
 2. Employ contact vacuum with HEPA-filtered discharge, capable of achieving minimum 80 inches w.g. static lift and fitted with 2.5-inch diameter round nylon brush attached to 1.5-inch diameter vacuum hose.
 3. Pass brush over surface test area four times.
 4. Visually compare tested and untested surfaces to determine whether visible surface characteristics are detectable.
 - b. When surface comparison test is complete, HVAC component surface is considered acceptably clean if there is no visually detectable difference between tested and untested surface characteristics.
- I. DISPOSAL OF JOB SITE DUCT CLEANING WASTE
1. Seal HVAC system debris and removed contaminated materials in containers before removal from work area.
 2. Handle materials classified as hazardous by governmental agencies in accordance with applicable federal, state, and local, regulations and codes.
 3. Dispose of debris removed from HVAC System in accordance with applicable federal, state, and local requirements.

End of Addendum

**SECTION 09 5100 – REVISED 01/25/2022
ACOUSTICAL CEILINGS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Suspended metal grid ceiling systems.
- B. Acoustical and nonacoustical units.
- C. Wall angles and shadow moldings.
- D. Special trims and accessories.

1.02 REFERENCE STANDARDS

- A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire 2019.
- C. ASTM C635/C635M - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings 2017.
- D. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels 2019.
- E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2020.
- F. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions 2020.
- G. ASTM E1264 - Standard Classification for Acoustical Ceiling Products 2019.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Sequence work to ensure acoustical ceilings are not installed until dust generating activities have terminated and overhead work is completed, tested, and approved.
- B. Do not install acoustical units until after interior wet work is dry.

1.04 SUBMITTALS

- A. Shop Drawings: Indicate the relationship to mechanical and electrical work and other items penetrating or connected to the ceiling. Indicate framing and support details for the ceiling work.
- B. Product Data: Provide data on suspension system components and acoustical units.
- C. Samples: Submit two samples 6_by_6_ inch (152_ by 152_ mm) in size illustrating material and finish of acoustical units.
- D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.05 QUALITY ASSURANCE

- A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acoustic Tiles/Panels:
 - 1. Armstrong World Industries, Inc: www.armstrong.com/#sle.

2. CertainTeed Corporation: www.certainteed.com/#sle.
 3. USG Corporation: www.usg.com/#sle.
- B. Suspension Systems:
1. Same as for acoustical units.

2.02 ACOUSTICAL UNITS

- A. Acoustical Units - General: ASTM E1264, Class A.
- B. Acoustical Panels: Painted mineral fiber, ASTM E1264 Type III, with the following characteristics:
1. Size: As indicated in the drawings, 24 by 24 inches (600 by 600 mm) or 24 by 48 inches (600 by 1200 mm).
 2. Thickness: 3/4 inches (19 mm).
 3. Light Reflectance: Not less than 85 percent, determined in accordance with ASTM E1264.
 4. NRC Range: 0.7 to 0.8, determined in accordance with ASTM E1264.
 5. Ceiling Attenuation Class (CAC): Minimum 35, determined in accordance with ASTM E1264.
 6. Edge: Square.
 7. Surface Color: White.
 8. Surface Pattern: Smooth Textured.
 9. Products: Armstrong Ultima or approved equal.

2.03 SUSPENSION SYSTEM(S)

- A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
- B. Exposed Steel Suspension System: Formed steel, commercial quality cold rolled; intermediate-duty.
1. Profile: Tee; 15/16 inch (24 mm) wide face.
 2. Construction: Double web.
 3. Finish: White painted.
 4. Products: Armstrong Prelude XL or approved equal.

2.04 CEILING PERFORMANCE REQUIREMENTS

- A. Design for maximum deflection of 1/360 of span.
- B. Seismic Performance: Ceiling systems designed to withstand the effects of earthquake motions determined according to ASCE 7 for Seismic Design Category D, E, or F and complying with the following:
1. Local authorities having jurisdiction.

2.05 CEILING COMPONENT PRODUCTS

- A. Moldings and Trim:
1. Perimeter Wall Moldings: Same metal and finish as grid.
 - a. Size: As required for installation conditions.
 - b. Acoustical Sealant For Perimeter Moldings: Nonhardening, nonskinning, for use in conjunction with suspended ceiling system.
 2. Trim Accessories: Manufacturer's standard clips, cleats splice plates, extension plates, closure plates, corner pieces, and similar accessories required for a complete installation.

2.06 ACCESSORIES

- A. Support Channels, Carriers, and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.

RICHARD R. WRIGHT SCHOOL - MAJOR HVAC RENOVATION
SDP CONTRACT NO. B-089C, B-079C, B-090C and B-080C of 2018/2019

- B. Suspension Wire: Size and type as required for application, seismic requirements, and ceiling system flatness requirement specified.
 - 1. Concealed Suspension:
 - a. Suspension Wire: Steel, annealed, galvanized finish, 12 gauge, 0.0808 diameter, complying with ASTM A641/A641M.
- C. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application.
- D. Touch-Up Paint for Exposed Surfaces: Type and color to match acoustical units and suspension system grid and trim elements.
- E. Touch-Up Paint For Concealed Items: Zinc rich type, as recommended by ceiling system manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work. Contractor to document existing ceiling layout, including light fixture arrangement, mechanical grilles, and other electrical devices, prior to removal and replacement of ceiling tile and grids.
- B. Verify that layout of hangers will not interfere with other work.
- C. Verify that field measurements are as indicated on shop drawings.
- D. Start of installation constitutes acceptance of project conditions.

3.02 PREPARATION

- A. Coordinate the location of hangers with other work.
- B. Install ceiling system after major above-ceiling work is complete.

3.03 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.
- B. Install hangers and inserts coordinated with overhead work. Provide additional hangers and supports as required.
- C. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- D. Seismic Suspension System, Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch clearance between grid ends and wall.
- E. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
- F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- H. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components independently.
- I. Do not eccentrically load system or induce rotation of runners.
- J. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.

3.04 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.

RICHARD R. WRIGHT SCHOOL - MAJOR HVAC RENOVATION
SDP CONTRACT NO. B-089C, B-079C, B-090C and B-080C of 2018/2019

- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install units after above-ceiling work is complete.
- E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- F. Cutting Acoustical Units:
 - 1. Cut to fit irregular grid and perimeter edge trim.
 - 2. Make field cut edges of same profile as factory edges.
 - 3. Double cut and field paint exposed reveal edges.

3.05 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3 mm in 3 m).
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

3.06 CLEANING

- A. Clean and touch up minor finish damage. Remove and replace components that cannot be successfully cleaned and repaired.

END OF SECTION

SECTION 26 09 23

LIGHTING CONTROL SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Digital Lighting Controls
 - 2. Emergency Lighting Control.

1.02 REFERENCES

- A. In this Article, list only references that are used within other portions of this Section. Use the full title of the standard. If paragraphs containing these references are deleted in the text of the edited section, delete references here accordingly.
- B. American National Standards Institute/Institute of Electrical and Electronic Engineers (ANSI/IEEE) <<http://www.ansi.org>>
- C. International Organization for Standardization (ISO) <<http://www.iso.ch>>
- D. National Electrical Manufacturers Association (NEMA) <<http://www.nema.org>>
 - 1. WD1 (R2005) - General Color Requirements for Wiring Devices.
- E. Underwriters Laboratories, Inc. (UL) <<http://www.ul.com>>
 - 1. 924 – Emergency Lighting.

1.03 SYSTEM DESCRIPTION AND OPERATION

- A. The Lighting Control and Automation system as defined under this section covers the following equipment:
 - 1. Digital Occupancy Sensors – Self-configuring, digitally addressable and calibrated occupancy sensors with LCD display and two-way active infrared (IR) communications.
 - 2. Digital Switches – Self-configuring, digitally addressable pushbutton on/off, dimming, and scene switches with two-way active infrared (IR) communications.
 - 3. Digital Room Controllers – Self-configuring, digitally addressable one, two or three relay plenum-rated controllers for on/off control. Selected models include 0-10 volt or line voltage forward phase control dimming outputs and integral current monitoring capabilities.
 - 4. Digital Lighting Management (DLM) local network – Free topology, plug-in wiring system (Cat 5e) for power and data to room devices.
 - 5. Emergency Lighting Control Unit (ELCU) – allows a standard lighting control device to control emergency lighting in conjunction with normal lighting in any area within a building.

1.04 SUBMITTALS

- A. Submittals Package: Submit the shop drawings, and the product data specified below at the same time as a package.
- B. Shop Drawings:
 - 1. Composite wiring and/or schematic diagram of each control circuit as proposed to be installed.

2. Show exact location of all digital devices, including at minimum sensors, room controllers, and switches for each area on plans. Plans shall show detection coverage patterns.
3. Provide room/area details including products and sequence of operation for each room or area. Illustrate typical acceptable room/area connection topologies.

C. Product Data: Catalog sheets, specifications, and installation instructions.

D. Include data for each device which:

1. Indicates where sensor is proposed to be installed.
2. Prove that the sensor is suitable for the proposed application.

1.05 QUALITY ASSURANCE

A. Manufacturer: Minimum ten years (10yrs.) experience in manufacture of lighting controls.

1.06 PROJECT CONDITIONS

- A. Do not install equipment until following conditions can be maintained in spaces to receive equipment:
1. Ambient temperature: 0° to 40° C (32° to 104° F)
 2. Relative humidity: Maximum 90 percent, non-condensing.

1.07 WARRANTY

A. Provide a five-year (5yr.) limited manufacturer's warranty on all room control devices.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of design product: WattStopper Digital Lighting Management (DLM) or, subject to compliance and prior approval with specified requirements of this section, one of the following:
 - 1. Lutron
 - 2. Leviton
 - 3. Hubbell
 - 4. nLight.

- B. Digital Lighting Controls:
 - 1. Furnish the Company's system which accommodates the square-footage coverage requirements for each area controlled, utilizing room controllers, digital occupancy sensors, switches, daylighting sensors and accessories which suit the lighting and electrical system parameters.

2.02 DIGITAL WALL OR CEILING MOUNTED OCCUPANCY SENSOR

- A. Wall or ceiling mounted (to suit installation) passive infrared (PIR), ultrasonic or dual technology digital (passive infrared and ultrasonic) occupancy sensor.

- B. Digital Occupancy Sensors shall provide graphic LCD display for digital calibration and electronic documentation. Features include the following:
 - 1. Digital calibration and pushbutton configuration for the following variables:
 - a. Sensitivity – 0 to 100%, in 10% increments
 - b. Time delay – 1 to 30 minutes, in 1-minute increments
 - c. Test mode – Five second time delay
 - d. Detection technology – PIR, Ultrasonic, or Dual Technology activation and/or re-activation.
 - e. Walk-through mode
 - f. Load parameters including Auto/Manual-ON, blink warning, and daylight enable/disable when photosensors are included in the DLM local network.
 - 2. Programmable control functionality including:
 - a. Each sensor may be programmed to control specific loads within a local network.
 - b. Sensor shall be capable of activating one of 16 user-definable lighting scenes.
 - c. Adjustable retrigger time period for manual-on loads. Load will retrigger (turn on) automatically within a configurable period of time (default 10 seconds) after turning off.
 - d. On dual technology sensors, independently configurable trigger modes are available for both Normal (NH) and After Hours (AH) time periods. The retrigger mode can be programmed to use the following technologies:
 - 1) Ultrasonic and Passive Infrared
 - 2) Ultrasonic or Passive Infrared
 - 3) Ultrasonic only
 - 4) Passive Infrared only
 - e. Independently configurable sensitivity settings for passive infrared and ultrasonic technologies (on dual technology sensors) for both Normal (NH) and After Hour (AH) time periods.
 - f. One or two RJ-45 port(s) for connection to DLM local network.
 - g. Two-way infrared (IR) transceiver to allow remote programming through handheld commissioning tool and control by remote personal controls.
 - h. Device Status LEDs, which may be disabled for selected applications, including:
 - 1) PIR detection
 - 2) Ultrasonic detection
 - 3) Configuration mode
 - 4) Load binding.
 - i. Assignment of occupancy sensor to a specific load within the room without wiring or special tools.
 - j. Manual override of controlled loads.

- k. All digital parameter data programmed into an individual occupancy sensor shall be retained in non-volatile FLASH memory within the sensor itself. Memory shall have an expected life of no less than 10 years.
3. BACnet object information shall be available for the following objects:
 - a. Detection state
 - b. Occupancy sensor time delay
 - c. Occupancy sensor sensitivity, PIR and Ultrasonic
4. Units shall not have any dip switches or potentiometers for field settings.
5. Multiple occupancy sensors may be installed in a room by simply connecting them to the free topology DLM local network. No additional configuration will be required.
6. WattStopper product numbers: LMPX, LMDX, LMPC, LMUC, LMDC

2.03 DIGITAL WALL SWITCHES

- A. Low voltage momentary pushbutton switches in 1, 2, 3, 4, 5 and 8 button configuration. Wall switches shall include the following features:
 1. Two-way infrared (IR) transceiver for use with personal and configuration remote controls.
 2. Removable buttons for field replacement with engraved buttons and/or alternate color buttons. Button replacement may be completed without removing the switch from the wall.
 3. Configuration LED on each switch that blinks to indicate data transmission.
 4. Load/Scene Status LED on each switch button with the following characteristics:
 - a. Bi-level LED
 - b. Dim locator level indicates power to switch

- c. Bright status level indicates that load or scene is active
 - 5. Dimming switches shall include seven bi-level LEDs to indicate load levels using 14 steps.
 - 6. Programmable control functionality including:
 - a. Button priority may be configured to any BACnet priority level, from 1-16, corresponding to networked operation allowing local actions to utilize life safety priority
 - b. Scene patterns may be saved to any button other than dimming rockers. Once set, buttons may be digitally locked to prevent overwriting of the preset levels.
 - 7. All digital parameter data programmed into an individual wall switch shall be retained in non-volatile FLASH memory within the wall switch itself. Memory shall have an expected life of no less than 10 years.
 - 8. BACnet object information shall be available for the following objects:
 - a. Button state
 - b. Switch lock control
 - c. Switch lock status
 - 9. Two RJ-45 ports for connection to DLM local network.
- B. Multiple digital wall switches may be installed in a room by simply connecting them to the free topology DLM local network. No additional configuration shall be required to achieve multi-way switching.
- C. The following switch attributes may be changed or selected using a wireless configuration tool:
- 1. Load and Scene button function may be reconfigured for individual buttons (from Load to Scene, and vice versa).
 - 2. Individual button function may be configured to Toggle, On only or Off only.
 - 3. Individual scenes may be locked to prevent unauthorized change.
 - 4. Fade Up and Fade Down times for individual scenes may be adjusted from 0 seconds to 18 hours.
 - 5. Ramp rate may be adjusted for each dimmer switch.
 - 6. Switch buttons may be bound to any load on a room controller and are not load type dependent; each button may be bound to multiple loads.
- D. WattStopper product numbers: LMSW-100 Series wall switch, LMDM-101.

2.04 DIGITAL ROOM CONTROLLERS

- A. Digital controllers for lighting automatically bind the room loads to the connected devices in the space without commissioning or the use of any tools. Room controllers shall be provided to match the room lighting control requirements. The controllers will be simple to install, and will not have dip switches or potentiometers, or require special configuration for standard Plug n' Go applications. The control units will include the following features:
- 1. Automatic room configuration to the most energy-efficient sequence of operation based upon the devices in the room.
 - 2. Simple replacement – Using the default automatic configuration capabilities, a room controller may be replaced with an off-the-shelf.
 - 3. Device Status LEDs to indicate:
 - a. Data transmission
 - b. Device has power
 - c. Status for each load
 - d. Configuration status
 - 4. Quick installation features including:
 - a. Standard junction box mounting
 - b. Quick low voltage connections using standard RJ-45 patch cable

5. Based on individual configuration, each load shall be capable of the following behavior on power up following the loss of normal power:
 - a. Turn on to 100%
 - b. Remain off
 - c. Turn on to last level
6. Each load shall be configurable to operate in the following sequences based on occupancy:
 - a. Auto-on/Auto-off (Follow on and off)
 - b. Manual-on/Auto-off (Follow off only)
7. The polarity of each load output shall be reversible, via digital configuration, so that on is off and off is on.
8. BACnet object information shall be available for the following objects:
 - a. Load status
 - b. Electrical current
 - c. Total watts per controller
 - d. Schedule state – normal or after-hours
 - e. Demand response control and cap level
 - f. Room occupancy status
 - g. Total room lighting and plug loads watts
 - h. Total room watts/sq ft
 - i. Force on/off all loads
9. UL 2043 plenum rated
10. Manual override and LED indication for each load
11. Dual voltage (120/277 VAC, 60 Hz) or 347 VAC, 60 Hz (selected models only). 120/277-volt models rated for 20A total load, derating to 16A required for some dimmed loads (forward phase dimming); 347 volt models rated for 15A total load; plug load controllers carry application-specific UL 20 rating for receptacle control.
12. Zero cross circuitry for each load
13. All digital parameter data programmed into an individual room controller or plug load controller shall be retained in non-volatile FLASH memory within the controller itself. Memory shall have an expected life of no less than 10 years.

B. On/Off Room Controllers shall include:

1. One or two relay configuration
2. Efficient 150 mA switching power supply
3. Three RJ-45 DLM local network ports with integral strain relief and dust cover
4. WattStopper product numbers: LMRC-102.

C. On/Off/Dimming enhanced Room Controllers shall include:

1. Real time current monitoring
2. Multiple relay configurations:
 - a. One, two or three relays (LMRC-21x series)
 - b. One or two relays (LMRC-22x series)
3. Efficient 250 mA switching power supply
4. Four RJ-45 DLM local network ports with integral strain relief and dust cover
5. One dimming output per relay:
 - a. 0-10V Dimming - Where indicated, one 0-10 volt analog output per relay for control of compatible ballasts and LED drivers. The 0-10 volt output shall automatically open upon loss of power to the Room Controller to assure full light output from the controlled lighting. (LMRC-21x series)
 - b. Line Voltage, Forward Phase Dimming - Where indicated, one forward phase control line voltage dimming output per relay for control of compatible two-wire or three-wire ballasts, LED drivers, MLV, forward phase compatible ELV, neon/cold cathode and incandescent loads. (LMRC-22x series)

- c. Each dimming output channel shall have an independently configurable minimum and maximum calibration trim level to set the dimming range to match the true dynamic range of the connected ballast or driver.
 - d. The LED level indicators on bound dimming switches shall utilize this new maximum and minimum trim.
 - e. Each dimming output channel shall have an independently configurable minimum and maximum trim level to set the dynamic range of the output within the new 0-100% dimming range defined by the minimum and maximum calibration trim.
 - f. Calibration and trim levels must be set per output channel.
 - g. Devices that set calibration or trim levels per controller are not acceptable.
 - h. All configuration shall be digital. Devices that set calibration or trim levels per output channel via trim pots or dip switches are not acceptable.
6. Each load shall have an independently configurable preset on level for Normal Hours and After-Hours events to allow different dimmed levels to be established at the start of both Normal Hours and After-Hours events.
 7. Fade rates for dimming loads shall be specific to bound switch buttons, and the load shall maintain a default value for any bound buttons that do not specify a unique value.
 8. The following dimming attributes may be changed or selected using a wireless configuration tool:
 - a. Establish preset level for each load from 0-100%
 - b. Set high and low trim for each load
 - c. Set lamp burn in time for each load up to 100 hours.
 9. Override button for each load provides the following functions:
 - a. Press and release for on/off control
 - b. Press and hold for dimming control.
 10. WattStopper product numbers: LMRC-210 Series.

2.05 DLM LOCAL NETWORK (ROOM NETWORK)

- A. The DLM local network is a free topology lighting control physical connection and communication protocol designed to control a small area of a building.
- B. Features of the DLM local network include:
 1. Plug n' Go® automatic configuration and binding of occupancy sensors, switches and lighting loads to the most energy-efficient sequence of operation based upon the device attached.
 2. Simple replacement of any device in the network with a standard off the shelf unit without requiring commissioning, configuration, or setup.
 3. Push n' Learn® configuration to change the automatic configuration, including binding and load parameters without tools, using only the buttons on the digital devices in the local network.
 4. Two-way infrared communications for control by handheld remotes, and configuration by a handheld tool including adjusting load parameters, sensor configuration and binding, within a line of sight of up to 30 feet from a sensor, wall switch or IR receiver.
- C. Digital room devices connect to the local network using pre-terminated Cat 5e cables with RJ-45 connectors, which provide both data and power to room devices. Systems that utilize RJ-45 patch cords but do not provide serial communication data from individual end devices are not acceptable.
- D. If manufacturer's pre-terminated Cat 5e cables are not used for the installation, the contractor is responsible for testing each cable following installation and supplying manufacturer with test results.
- E. WattStopper Product Number: LMRJ-Series.

2.06 EMERGENCY LIGHTING CONTROL DEVICES

- A. Emergency Lighting Control Unit – A UL 924 listed device that monitors a switched circuit providing normal lighting to an area. The unit provides normal ON/OFF control of emergency lighting along with the normal lighting. Upon normal power failure the emergency lighting circuit will close, forcing the emergency lighting ON until normal power is restored. Features include:
 - 1. 120/277 volts, 50/60 Hz, 20-amp ballast rating
 - 2. Push to test button
 - 3. Auxiliary contact for remote test or fire alarm system interface

- B. WattStopper Product Numbers: ELCU-200.

PART 3 EXECUTION

3.01 PRE-INSTALLATION MEETING

- A. A factory authorized manufacturer's representative shall provide the electrical contractor a functional overview of the lighting control system prior to installation. The contractor shall schedule the pre-installation site visit after receipt of approved submittals to review the following:
 - 1. Confirm the location and mounting of all digital devices, with special attention to placement of occupancy and daylighting sensors.
 - 2. Review the specifications for low voltage control wiring and termination.
 - 3. Discuss the functionality and configuration of all products, including sequences of operation, per design requirements.
 - 4. Discuss requirements for integration with other trades.

3.02 CONTRACTOR INSTALLATION AND SERVICES

- A. Contractor to install all devices and wiring in a professional manner. All line voltage connections to be tagged to indicate circuit and switched legs.

- B. Contractor to install all room/area devices using manufacturer's factory-tested Cat 5e cable with pre-terminated RJ-45 connectors.
 - 1. If pre-terminated cable is not used for room/area wiring, the contractor is responsible for testing each field-terminated cable following installation and shall supply the lighting controls manufacturer with test results.
 - 2. Low voltage wiring topology must comply with manufacturer's specifications.

- C. Install the work of this Section in accordance with manufacturer's printed instructions unless otherwise indicated. Before start-up, contractor shall test all devices to ensure proper communication.

- D. Calibrate all sensor time delays and sensitivity to guarantee proper detection of occupants and energy savings.

- E. Adjust time delay so that controlled area remains lighted while occupied.

- F. Provide written or computer-generated documentation on the configuration of the system including room by room description including:
 - G. Sensor parameters, time delays, sensitivities, and daylighting setpoints.

- H. Sequence of operation, (e.g. manual ON, Auto OFF. etc.)
- I. Load Parameters (e.g. blink warning, etc.)
- J. Post Start-up Tuning: After 30 days from occupancy contractor shall adjust sensor time delays and sensitivities to meet the Owner's requirements. Provide a detailed report to the Owner of post start-up activity.

3.03 FACTORY SERVICES

- A. Upon completion of the installation, the manufacturer's factory authorized representative shall start up and verify a complete fully functional system.
- B. The electrical contractor shall provide both the manufacturer and the electrical engineer with three weeks written notice of the system start up and adjustment date.

3.04 USER TRAINING

- A. Training: Train University's personnel on operation, adjustment, and maintenance of lighting control system and devices.
 - 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
 - 2. Provide minimum of two hours of training.
 - 3. Instructor: Manufacturer's factory authorized representative.
 - 4. Location: At project site.

END OF SECTION

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LICENSE NUMBER: RA011064X

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DEMO NOTES

NOTE: NOT ALL NOTES APPEAR ON THIS SHEET. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.

- PATCH AND REPAIR EXISTING OPENING IN PREPARATION FOR NEW MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL SCOPE.
- REMOVE CONCRETE EQUIPMENT PAD IN ITS ENTIRETY. PATCH AND REPAIR SURFACE TO MATCH ADJACENT CONCRETE. ALIGN ALL SURFACES.
- REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN THEIR ENTIRETY. VERIFY CONDITION OF EXISTING LINTEL AND FLASHING, AND NOTIFY THE ARCHITECT / ENGINEER PRIOR TO NEW INSTALLATION. REMOVAL TO TAKE PLACE ONLY AFTER CONTRACTOR HAS RECEIVED NEW DOOR.
- REMOVE EXISTING LOUVER IN ITS ENTIRETY. VERIFY CONDITION OF EXISTING LINTEL AND FLASHING, AND NOTIFY THE ARCHITECT / ENGINEER PRIOR TO NEW INSTALLATION.

DEMO LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED

BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132

PROJECT TITLE
MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL SECOND FLOOR DEMOLITION PLAN

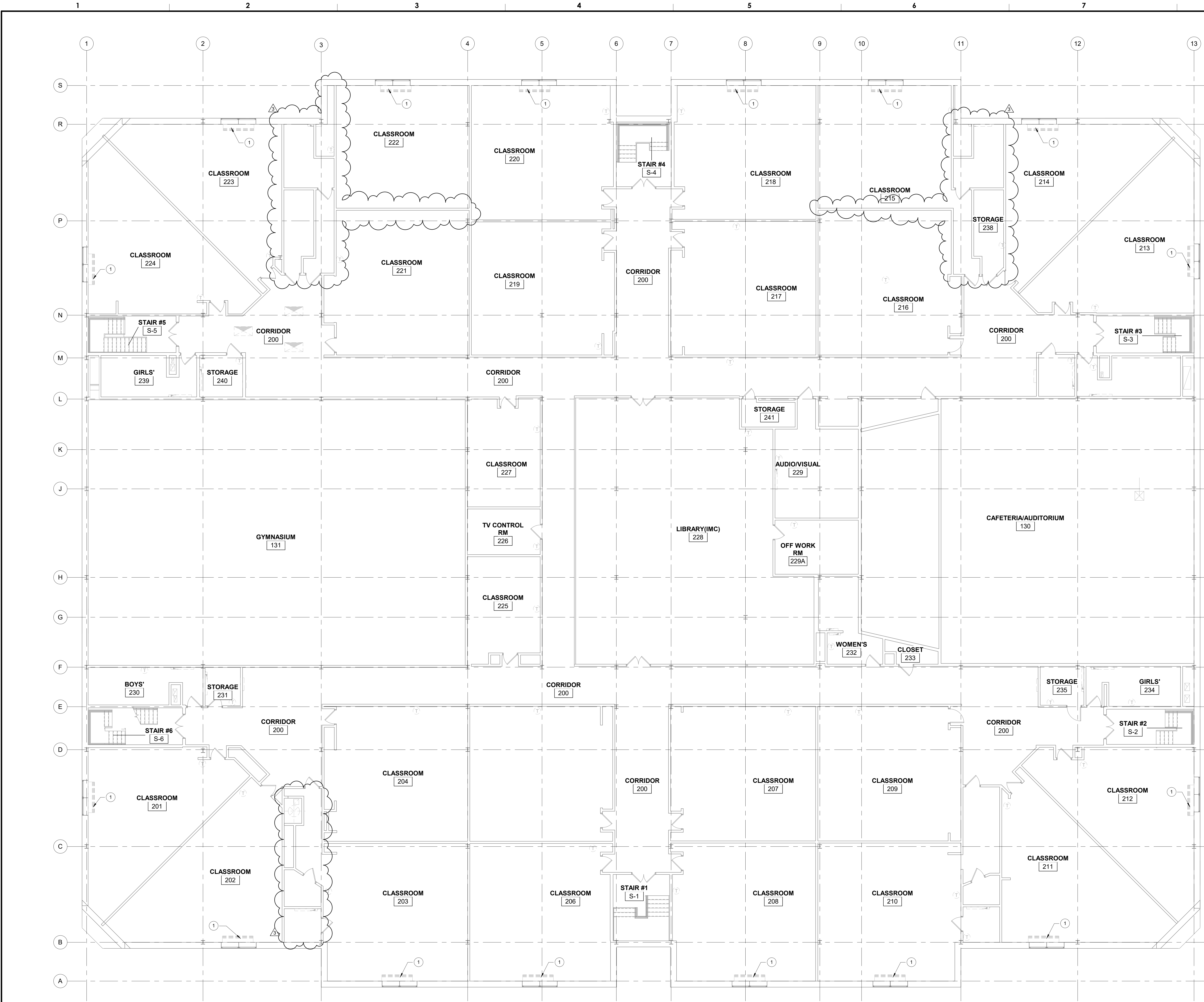
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As indicated

LOCATION NO. 4470 ENGINEER'S PROJECT # 068625.009

DRAWN BY JEB CHECKED BY TY

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
AD102
SHEET 5 OF 69



1 SECOND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

Project Number: 068625.009
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BID SUBMISSION
21 DEC 2021

3 01/25/22 ADDENDUM 3
NO. DATE REVISION

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY
SCHOOL

2700 W DAUPHIN ST, PHILADELPHIA, PA 19132
PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
**ARCHITECTURAL FIRST FLOOR
DEMOLITION REFLECTED
CEILING PLAN**

DRAWING SCALE
As indicated

LOCATION NO. ENGINEER'S PROJECT #
4470 068625.009

DRAWN BY CHECKED BY
JEB TY

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PC: B-090(c) OF 2018/2019
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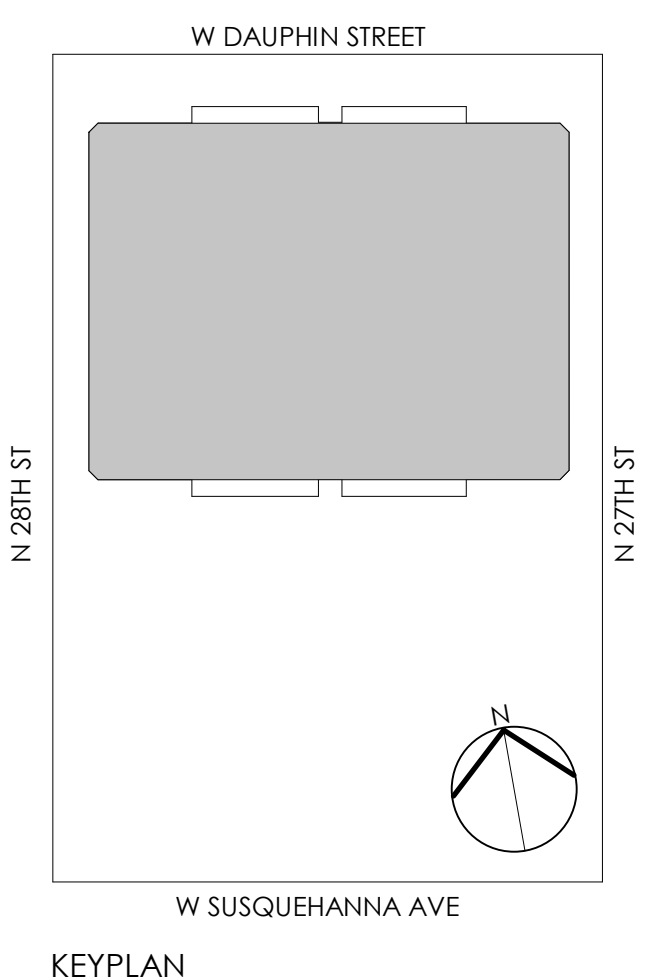
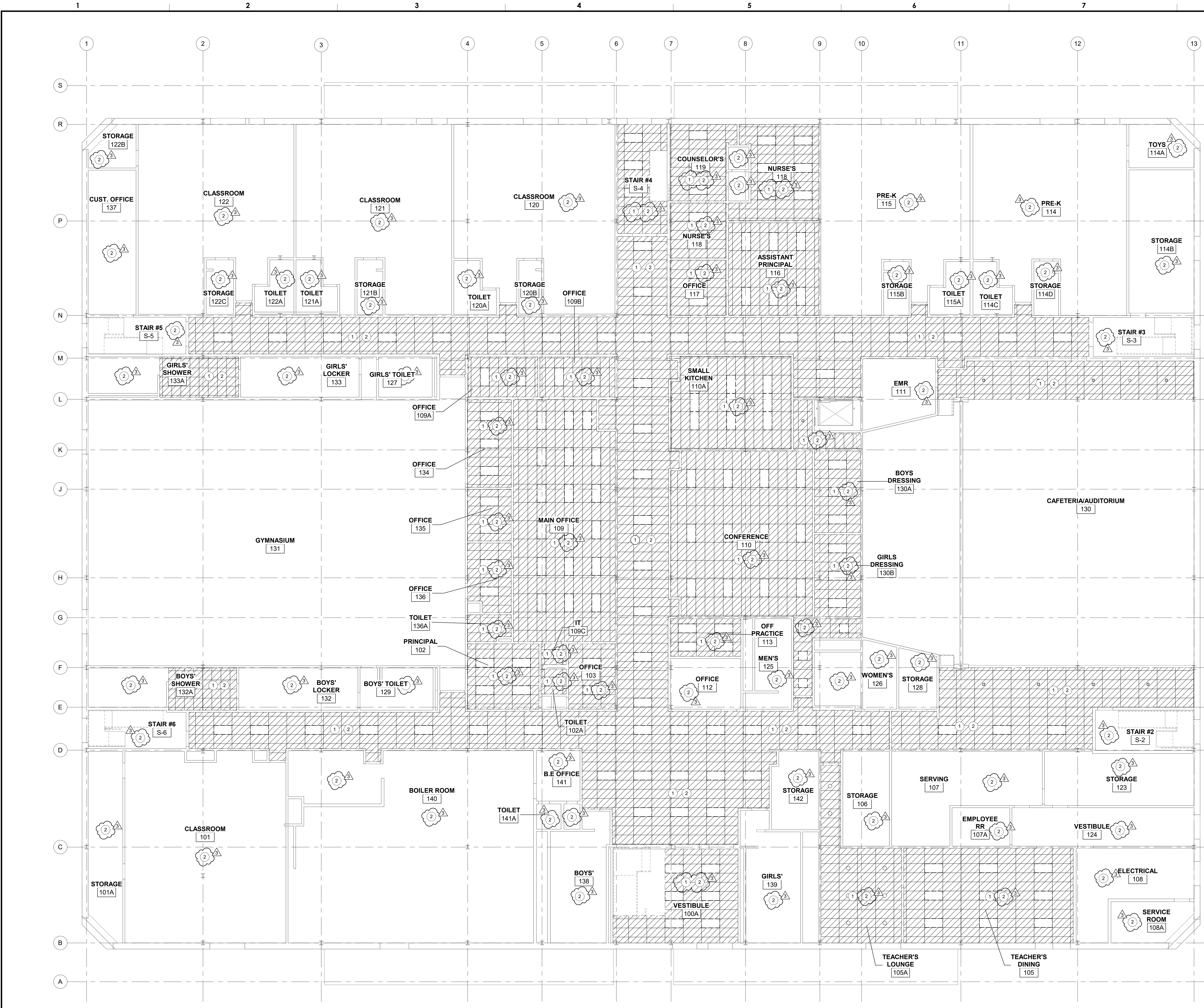
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AD103
SHEET 6 OF 69

RCP DEMO NOTES

- NOTE: COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
- REMOVE AND DISPOSE OF CEILING TILE AND SUSPENSION SYSTEM IN THEIR ENTIRETY. REMOVE ALL ELECTRICAL DEVICES AND SALVAGE FOR REINSTALLATION. COORDINATE STORAGE LOCATION WITH OWNER.
 - REMOVE CEILING LIGHT FIXTURES IN THEIR ENTIRETY. SEE ELECTRICAL DRAWINGS.
 - CONTRACTOR TO VERIFY AND DOCUMENT QUANTITIES AND LAYOUT OF EXISTING LIGHTING AND CEILING GRID PRIOR TO DEMOLITION.
 - REMOVE AND DISPOSE OF GYPSUM CEILING AND SUSPENSION SYSTEM IN THEIR ENTIRETY. REMOVE ALL ELECTRICAL DEVICES AND SALVAGE FOR REINSTALLATION. COORDINATE STORAGE LOCATION WITH OWNER.

RCP DEMO LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING ACT CEILING TO BE DEMOLISHED. SEE NOTE 1
- EXISTING GYPSUM CEILING TO BE DEMOLISHED. SEE NOTE 3



1 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
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2700 W DAUPHIN ST., PHILADELPHIA, PA 19132

PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN

DRAWING SCALE
As indicated

LOCATION NO. 4470 **ENGINEER'S PROJECT #** 068625.009

DRAWN BY JEB **CHECKED BY** TY

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.

AD104

SHEET 7 OF 69

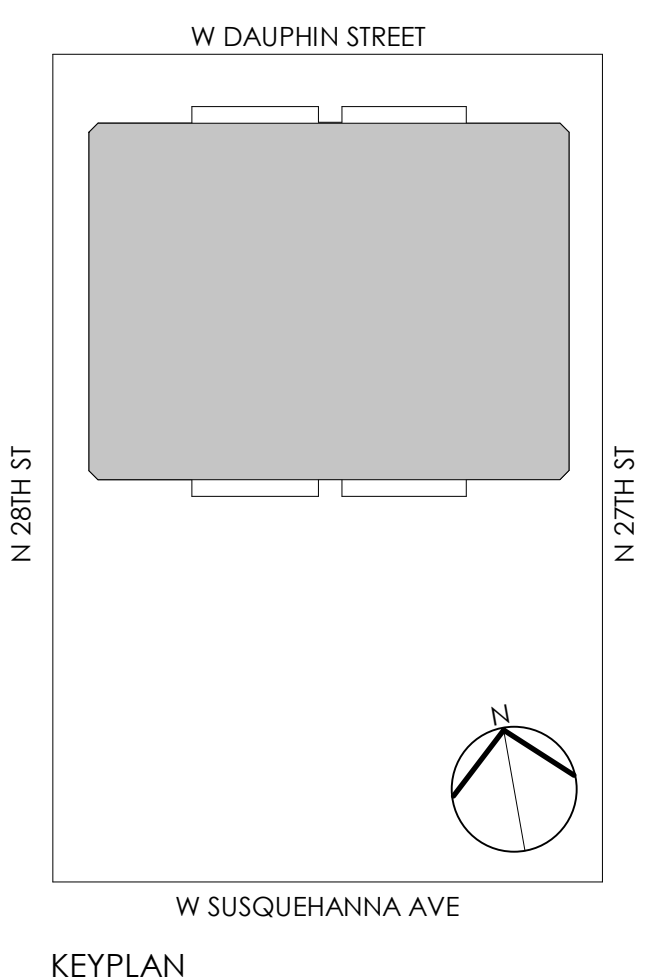
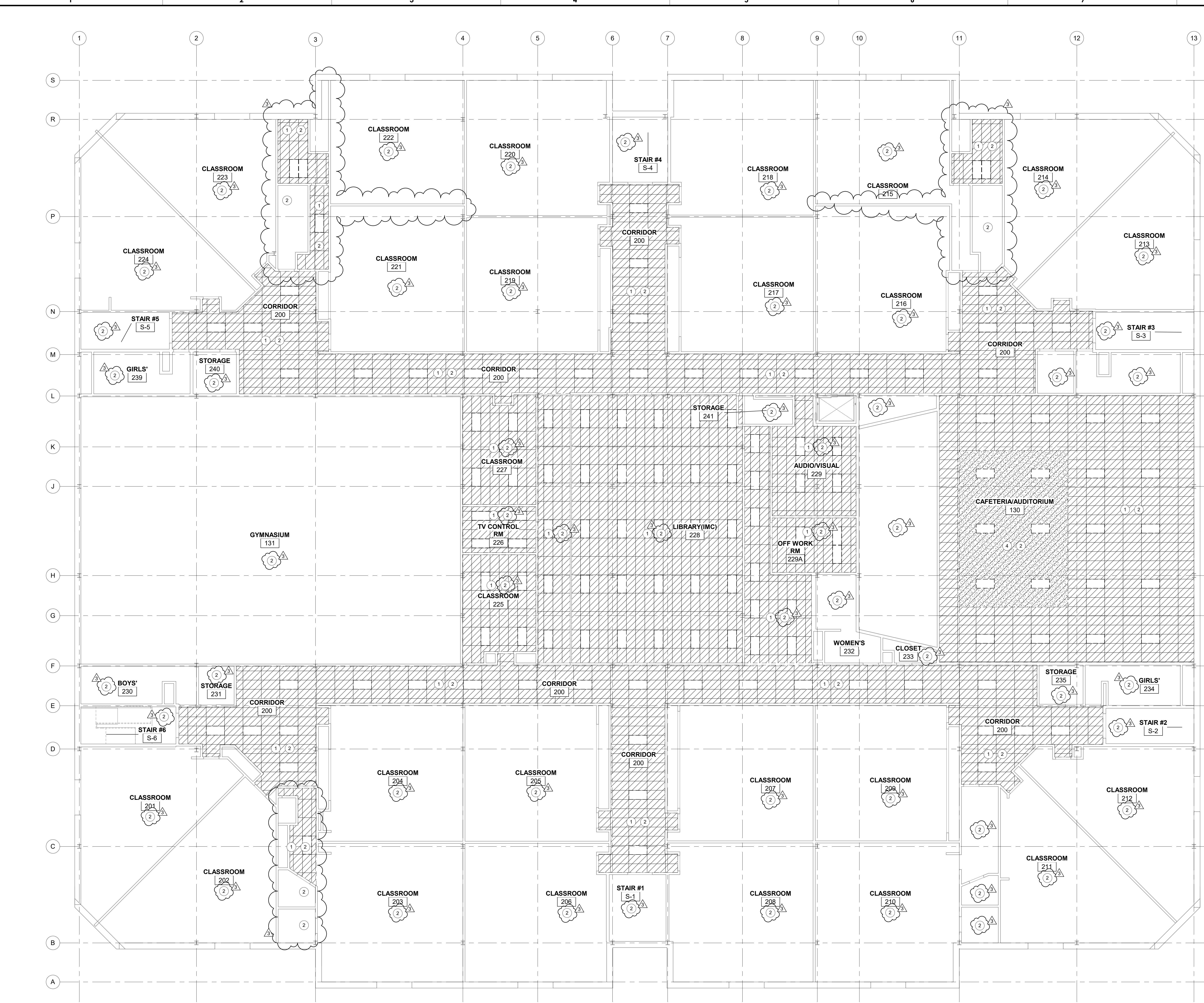
RCP DEMO NOTES

NOTE: COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR

- REMOVE AND DISPOSE OF CEILING TILE AND SUSPENSION SYSTEM IN THEIR ENTIRETY. REMOVE ALL ELECTRICAL DEVICES AND SALVAGE FOR REINSTALLATION. COORDINATE STORAGE LOCATION WITH OWNER.
- REMOVE CEILING LIGHT FIXTURES IN THEIR ENTIRETY. SEE ELECTRICAL DRAWINGS.
- CONTRACTOR TO VERIFY AND DOCUMENT QUANTITIES AND LAYOUT OF EXISTING LIGHTING AND CEILING GRID PRIOR TO DEMOLITION.
- REMOVE AND DISPOSE OF GYPSUM CEILING AND SUSPENSION SYSTEM IN THEIR ENTIRETY. REMOVE ALL ELECTRICAL DEVICES AND SALVAGE FOR REINSTALLATION. COORDINATE STORAGE LOCATION WITH OWNER.

RCP DEMO LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING ACT CEILING TO BE DEMOLISHED. SEE NOTE 1
- EXISTING GYPSUM CEILING TO BE DEMOLISHED. SEE NOTE 3



1 SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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CONSTRUCTION NOTES

NOTE: NOT ALL NOTES APPEAR ON THIS SHEET. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.

- PATCH, REPAIR, AND PROVIDE TOUCH-UP PAINT/VCT AROUND NEWLY INSTALLED MECHANICAL EQUIPMENT. COLOR AND FINISH TO MATCH ADJACENT:
 - A. WALLS
 - B. CEILING
 - C. FLOORS
- PROVIDE CONCRETE EQUIPMENT PAD. SEE STRUCTURAL DRAWINGS FOR DETAILS.
- PROVIDE 22"W x 20"H WALL OPENING FOR NEW EXHAUST FAN. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.
- PROVIDE 24" SQUARE WALL OPENING FOR NEW EXHAUST FAN. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.
- PROVIDE 27" SQUARE WALL OPENING FOR NEW EXHAUST FAN. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.
- PROVIDE NEW HOLLOW METAL DOOR, FRAME, AND HARDWARE IN EXISTING WALL OPENING WITH INSULATED METAL PANEL INFILL, SIDELIGHT AND LOUVER. FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION. SEE DETAILS ON A501.
- REPLACE EXISTING LOUVER IN-KIND. SEE DETAILS ON LH, LS, LJ ON A501.
- PROVIDE 24" SQUARE WALL OPENING FOR DUCT. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132

PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL FIRST FLOOR PLAN

DRAWING SCALE
As indicated

LOCATION NO. ENGINEER'S PROJECT #
4470 068625.009

DRAWN BY CHECKED BY
JEB TY

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
A101
SHEET 9 OF 69

Local File: BIM_360/068625-SDP_MEP_PP_IDOC/068625.009_SDP/Weight_ARCH_R21.rvt
Central File: BIM360_LA_Central_R20.rvt
Project Number: 068625.009
1/25/2022 3:24:55 PM
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CONSTRUCTION NOTES

NOTE: NOT ALL NOTES APPEAR ON THIS SHEET. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR

- PATCH, REPAIR, AND PROVIDE TOUCH-UP PAINT/VCCT AROUND NEWLY INSTALLED MECHANICAL EQUIPMENT. COLOR AND FINISH TO MATCH ADJACENT:
 - A. WALLS
 - B. CEILING
 - C. FLOORS
- PROVIDE CONCRETE EQUIPMENT PAD. SEE STRUCTURAL DRAWINGS FOR DETAILS.
- PROVIDE 22"W x 20"H WALL OPENING FOR NEW EXHAUST FAN. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.
- PROVIDE 24" SQUARE WALL OPENING FOR NEW EXHAUST FAN. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.
- PROVIDE 27" SQUARE WALL OPENING FOR NEW EXHAUST FAN. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.
- PROVIDE NEW HOLLOW METAL DOOR, FRAME, AND HARDWARE IN EXISTING WALL OPENING WITH INSULATED METAL PANEL INFILL, SIDELIGHT AND LOUVER. FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION. SEE DETAILS ON A501.
- REPLACE EXISTING LOUVER IN-KIND. SEE DETAILS ON LH, LS, LJ ON A501
- PROVIDE 24" SQUARE WALL OPENING FOR DUCT. PROVIDE TEMPORARY SUPPORT AS REQUIRED. SEE MECHANICAL DRAWINGS AND DETAIL 6 ON A501.

SEAL:

CHARLES BEAUDRY, AIA
LICENSE NUMBER: RA011064X

ENGINEER OF RECORD:
MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:
GANNETT FLEMING, INC.
1010 ADAMS AVENUE
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Email: BWEISSER@GFNET.COM
A/E: BRIAN WEISSER, PE

ELECTRICAL ENGINEER:
DGW ELECTRICAL ENGINEERING, INC.
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BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132

PROJECT TITLE
MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL SECOND FLOOR PLAN

DRAWING SCALE
As indicated

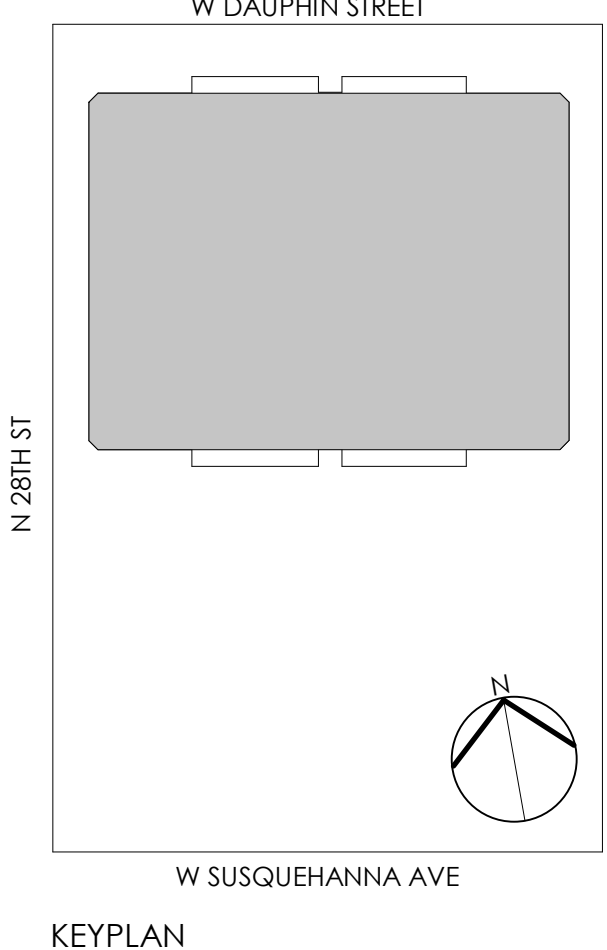
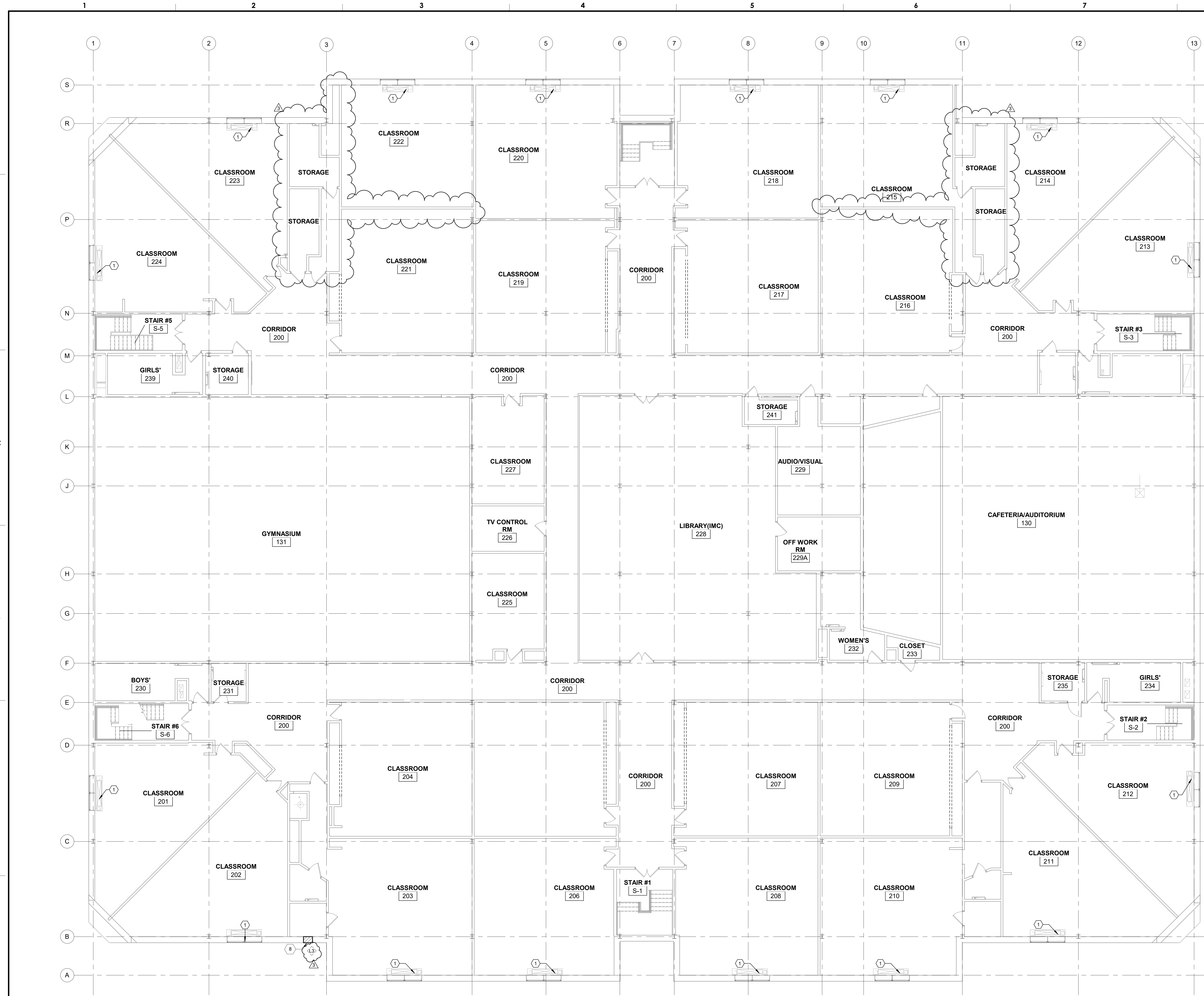
LOCATION NO. ENGINEER'S PROJECT #
4470 068625.009

DRAWN BY CHECKED BY
JEB TY

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
A102

SHEET 10 OF 69



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

Project Number: 068625.009
1/25/2022 3:24:57 PM
Central File: BIM360_LA_Central_F20.rvt
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SEAL:

CHARLES BEAUDOU, AIA
LICENSE NUMBER: RA011064X

ENGINEER OF RECORD:
MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:
GANNETT FLEMING, INC.
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Phone: 610.783.3862
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Atn: BRIAN WEISSER, PE

ELECTRICAL ENGINEER:
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Fax: 215.354.9163
Atn: GRAZYNA PUCHTA, PE

ARCHITECT:
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1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
Email: BWEISSER@GFNET.COM
Atn: BRIAN WEISSER, PE

- RCP NOTES**
- NOTE: COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
 - INSTALL NEW CEILING SUSPENSION SYSTEM AND ACOUSTICAL CEILING TILE AFTER MECHANICAL WORK ABOVE CEILING. PROVIDE NEW LAYOUT SIMILAR TO EXISTING UNLESS OTHERWISE INDICATED. CENTER CEILING GRID LAYOUT WHERE POSSIBLE. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. SEE DETAILS ON A501.
 - REPLACE EXISTING EXIT SIGNS WITH LED EXIT SIGNS.

BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132
PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL FIRST FLOOR REFLECTED CEILING PLAN

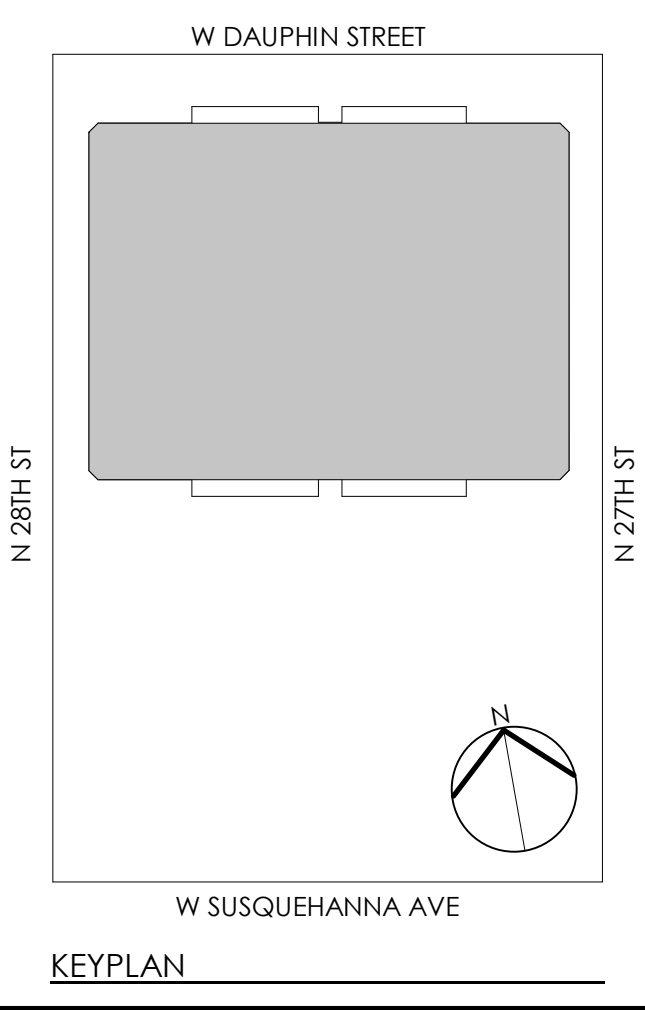
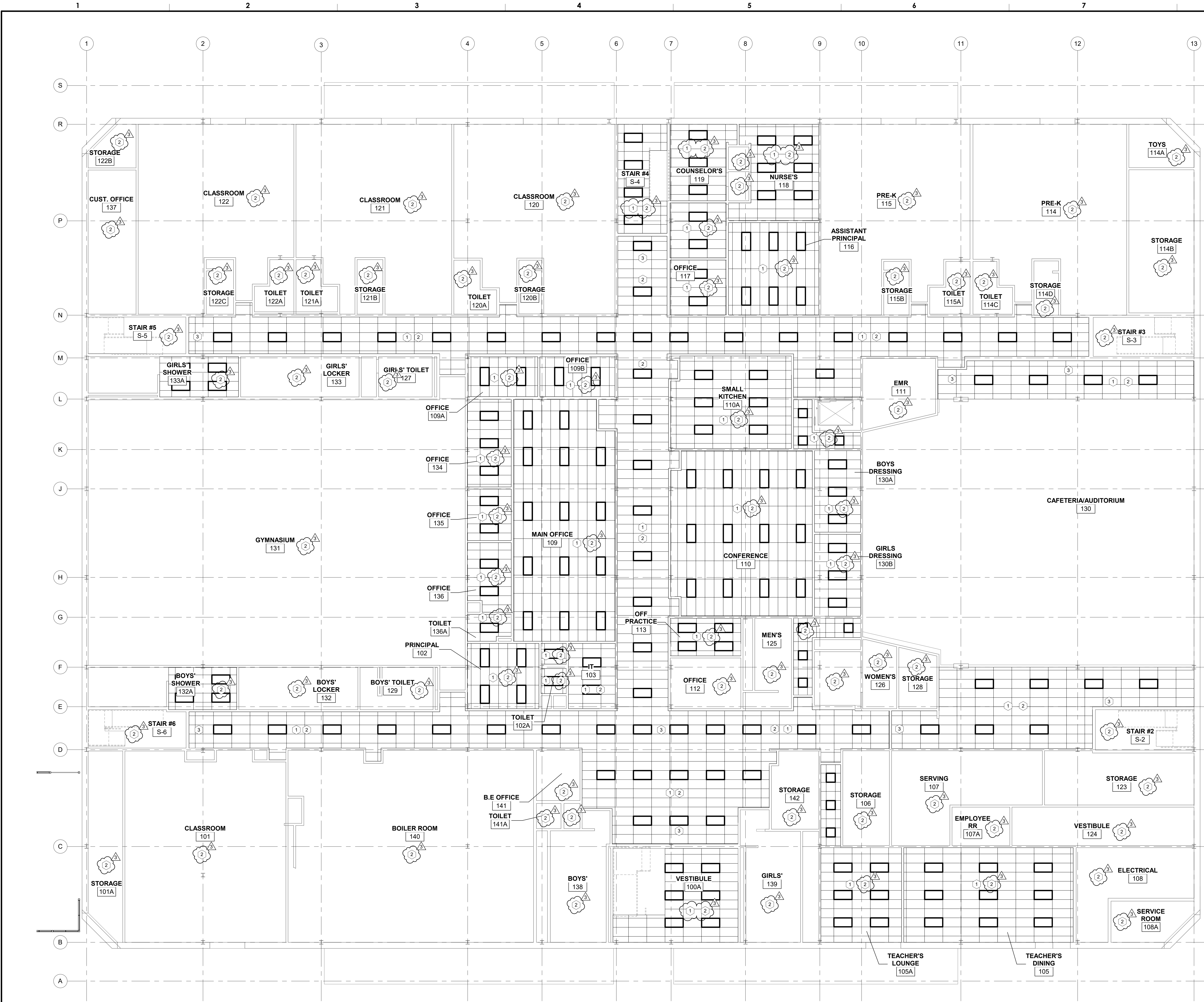
DRAWING SCALE
As indicated

LOCATION NO. 4470 ENGINEER'S PROJECT # 068625.009

DRAWN BY JEB CHECKED BY TY

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
A103
SHEET 11 OF 69



1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

Project Number: 068625.009
 1/25/2022 3:25:00 PM
 Central File: BIM360_LA_Central_F20.rvt
 Local File: BIM 360/068625-SDP_MEP_PP_IDOC/068625.009_SDP/Work/ARCH_R21.rvt
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SEAL:

CHARLES BEAUDOU, AIA
LICENSE NUMBER RA011064X

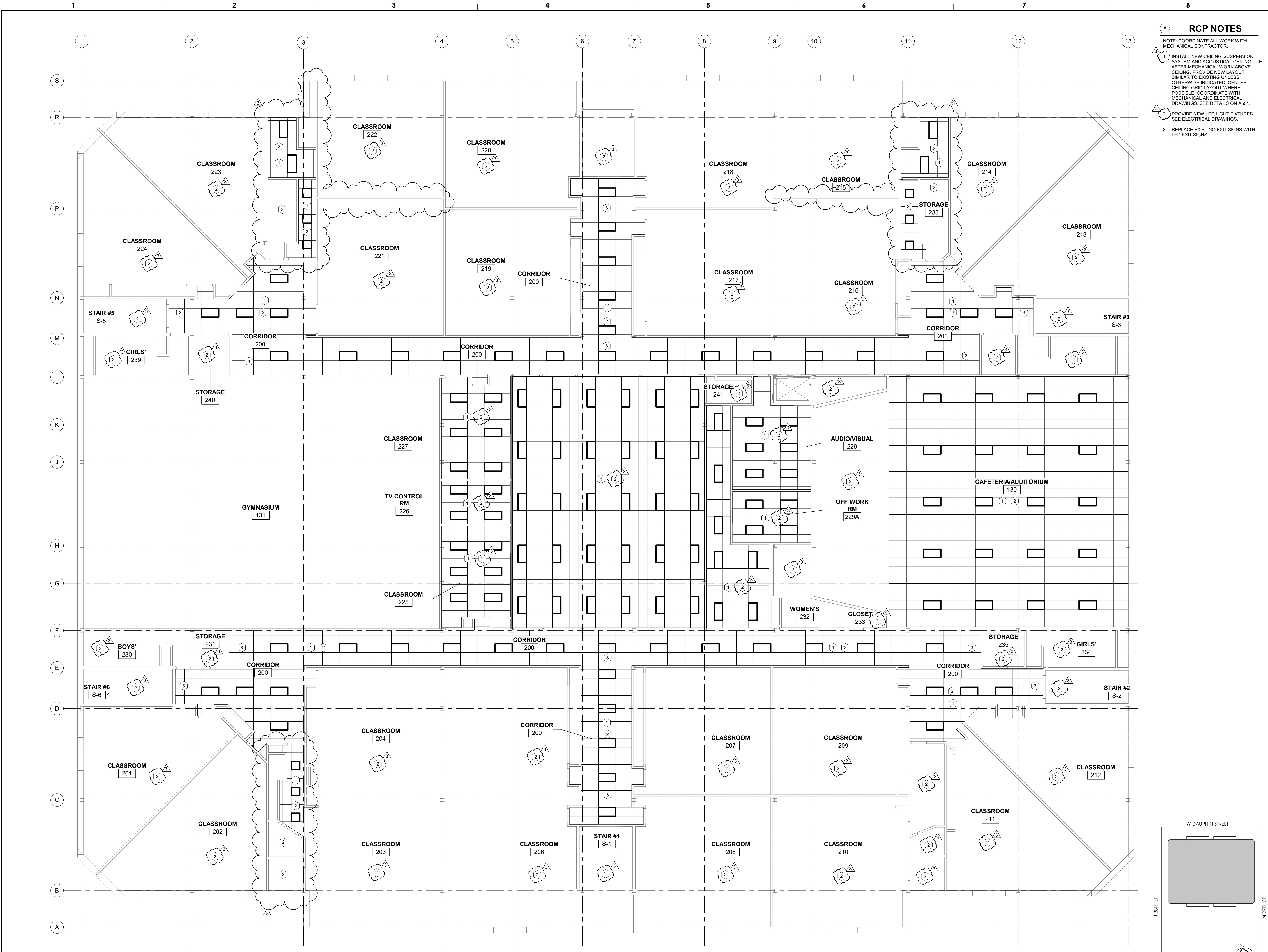
ENGINEER OF RECORD:
MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:
GANNETT FLEMING, INC.
1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
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ELECTRICAL ENGINEER:
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Phone: 610.783.3862
Email: BWEISSER@GFNET.COM
A/E: BRIAN WEISSER, PE

RCP NOTES

- NOTE: COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
1. INSTALL NEW CEILING SUSPENSION SYSTEM AND ACOUSTICAL CEILING TILE AFTER MECHANICAL WORK ABOVE CEILING. PROVIDE NEW LAYOUT SIMILAR TO EXISTING UNLESS OTHERWISE INDICATED. CENTER CEILING GRID LAYOUT WHERE POSSIBLE. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. SEE DETAILS ON A501.
 2. PROVIDE NEW LED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS.
 3. REPLACE EXISTING EXIT SIGNS WITH LED EXIT SIGNS.



BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132
PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL SECOND FLOOR REFLECTED CEILING PLAN

DRAWING SCALE	As indicated
LOCATION NO.	ENGINEER'S PROJECT #
4470	068625.009
DRAWN BY	CHECKED BY
JEB	TY
GC: B-089(c) OF 2018/2019	
MC: B-079(c) OF 2018/2019	
PC: B-090(c) OF 2018/2019	
EC: B-080(c) OF 2018/2019	

DRAWING NO.
A104
SHEET 12 OF 69

Project Number: 068625.009
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 © GANNETT FLEMING, INC 2021

1 SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SEAL:

CHARLES BEAUDOU, AIA
LICENSE NUMBER: RA011064X

ENGINEER OF RECORD:
MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:
GANNETT FLEMING, INC.
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BID SUBMISSION
21 DEC 2021

NO.	DATE	REVISION
3	01/25/22	ADDENDUM 3

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132
PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL ENLARGED FLOOR PLANS

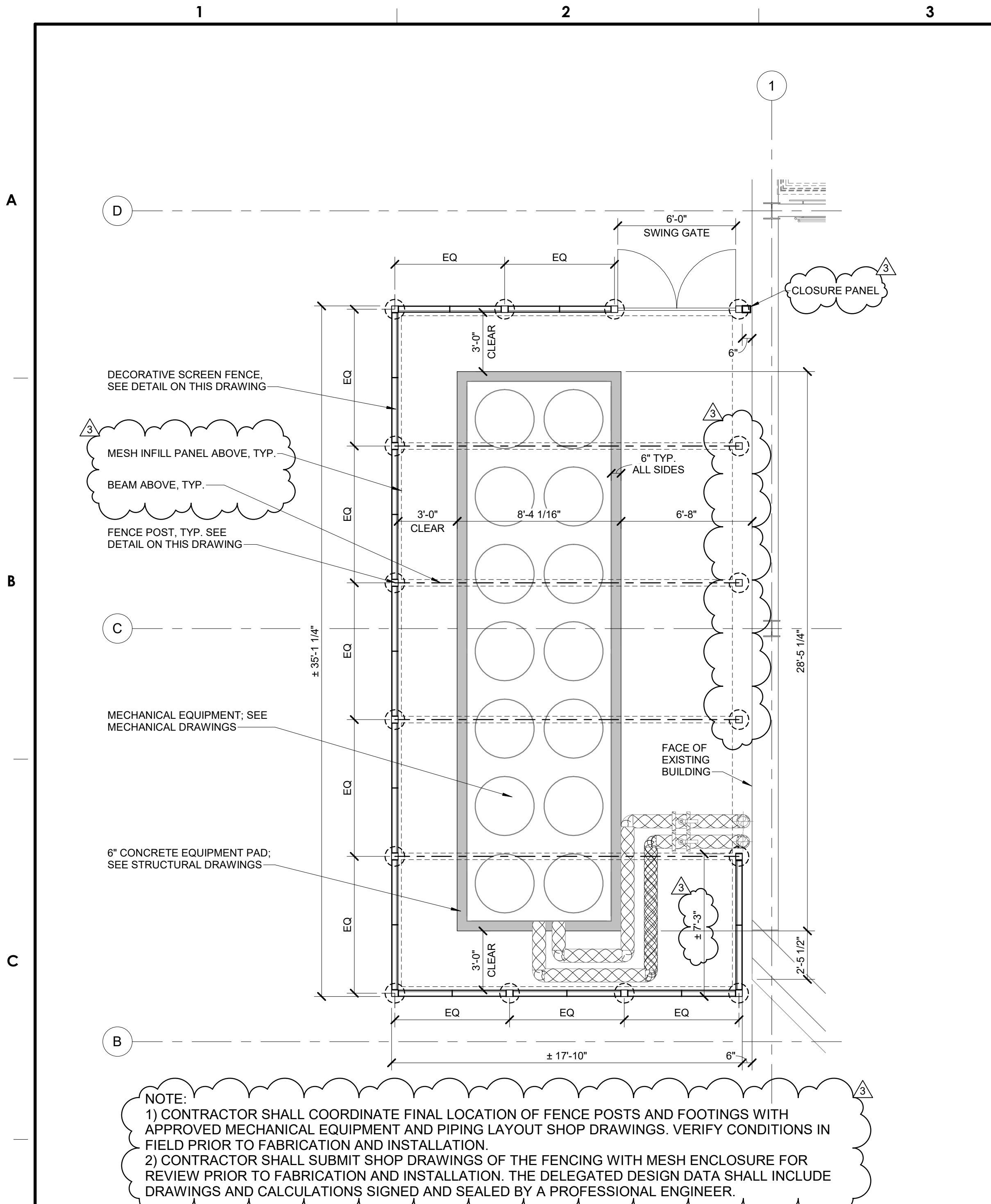
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As indicated

LOCATION NO. ENGINEER'S PROJECT #
4470 068625.009

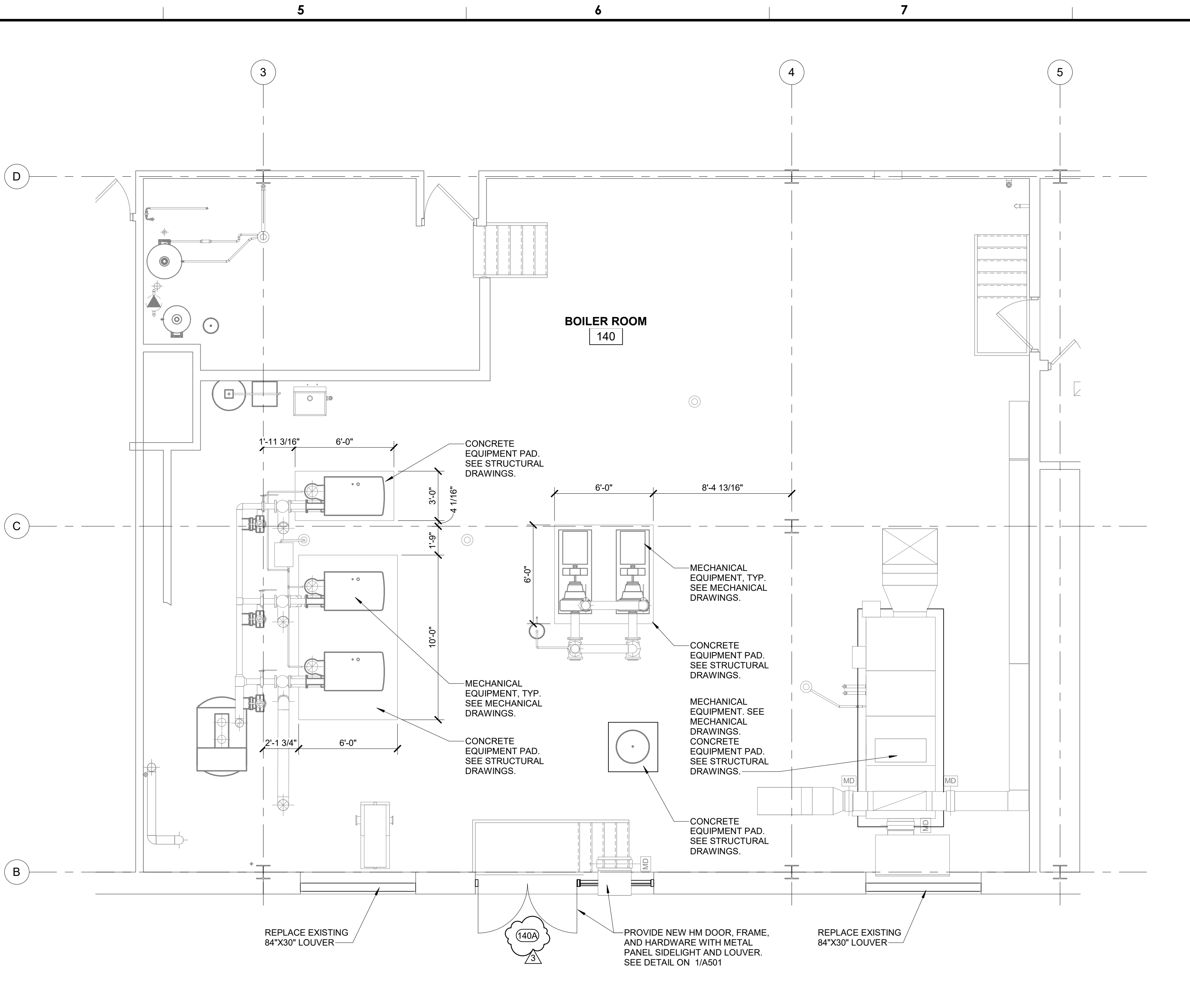
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JEB TY

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MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

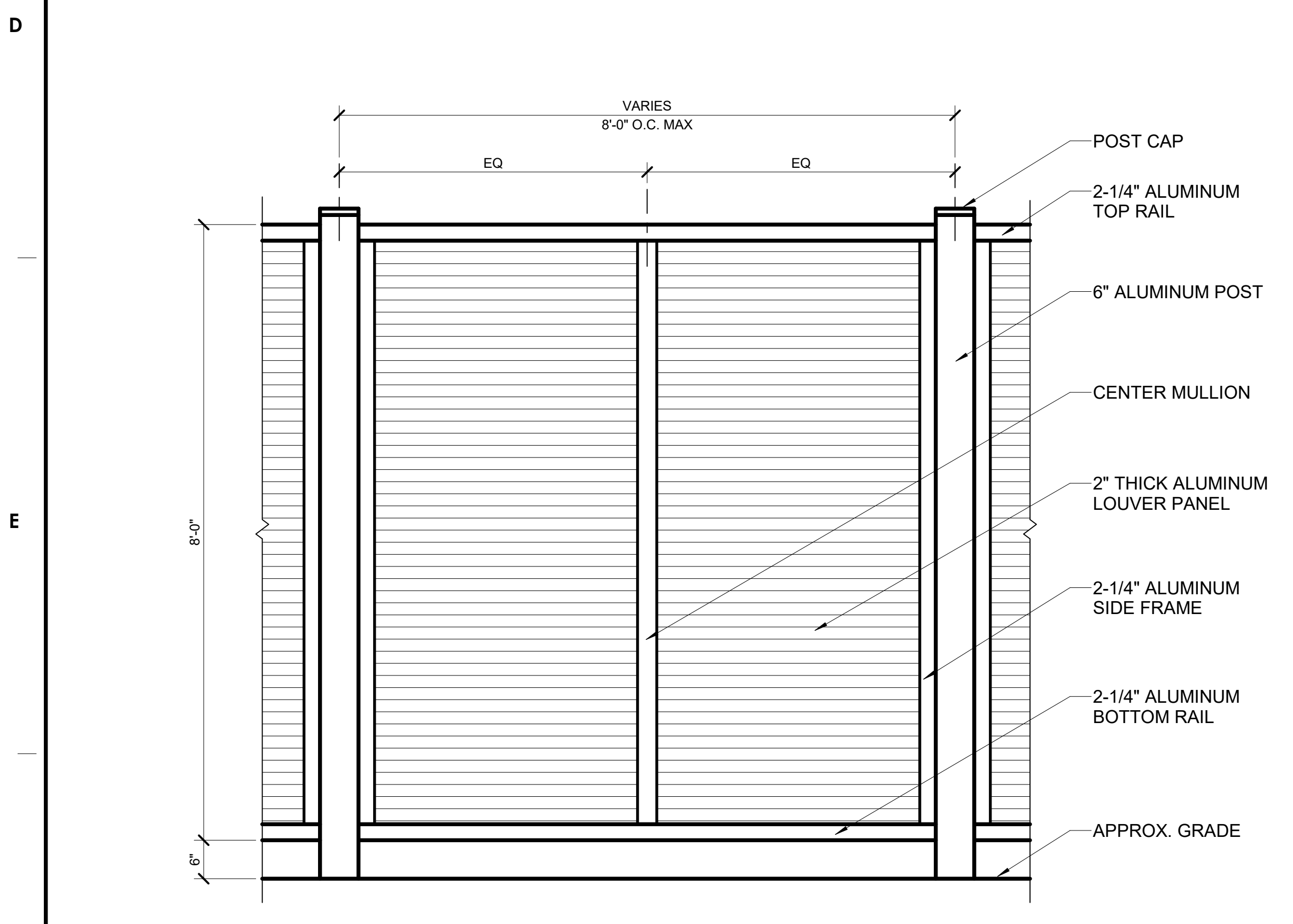
DRAWING NO.
A401
SHEET 14 OF 69



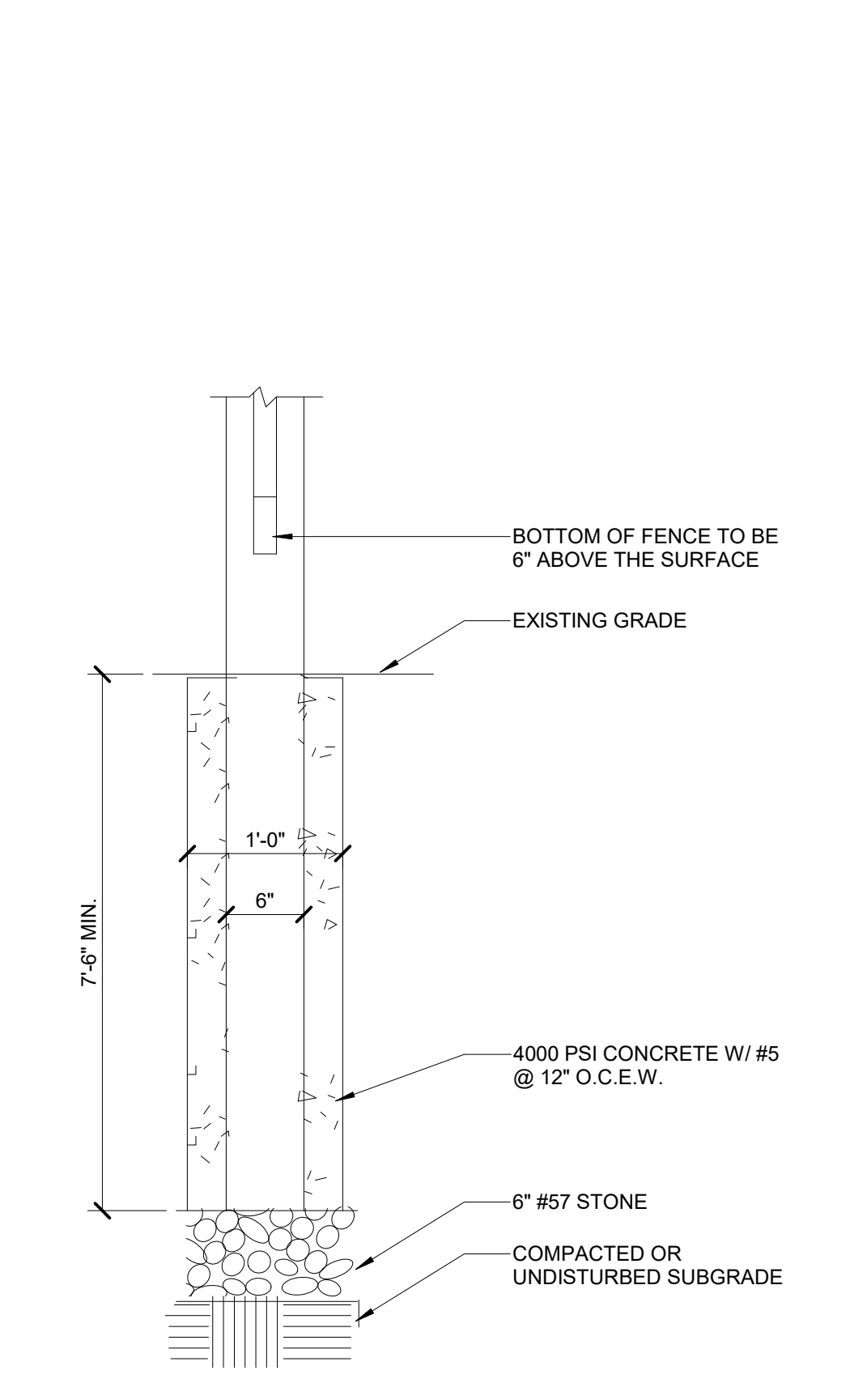
1 CHILLER PAD AND FENCE ENLARGED PLAN
SCALE: 1/4" = 1'-0"



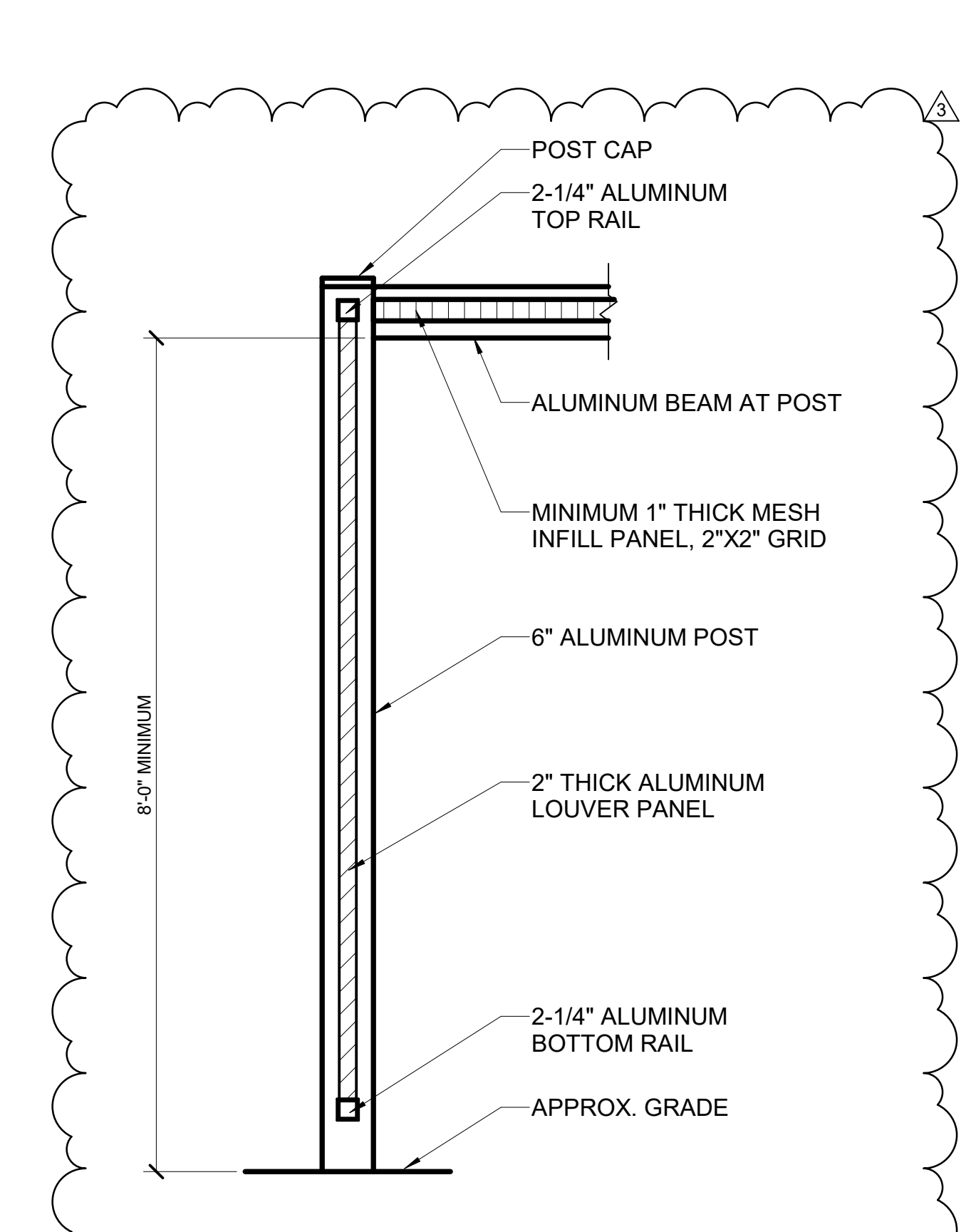
2 BOILER ROOM ENLARGED PLAN
SCALE: 1/4" = 1'-0"



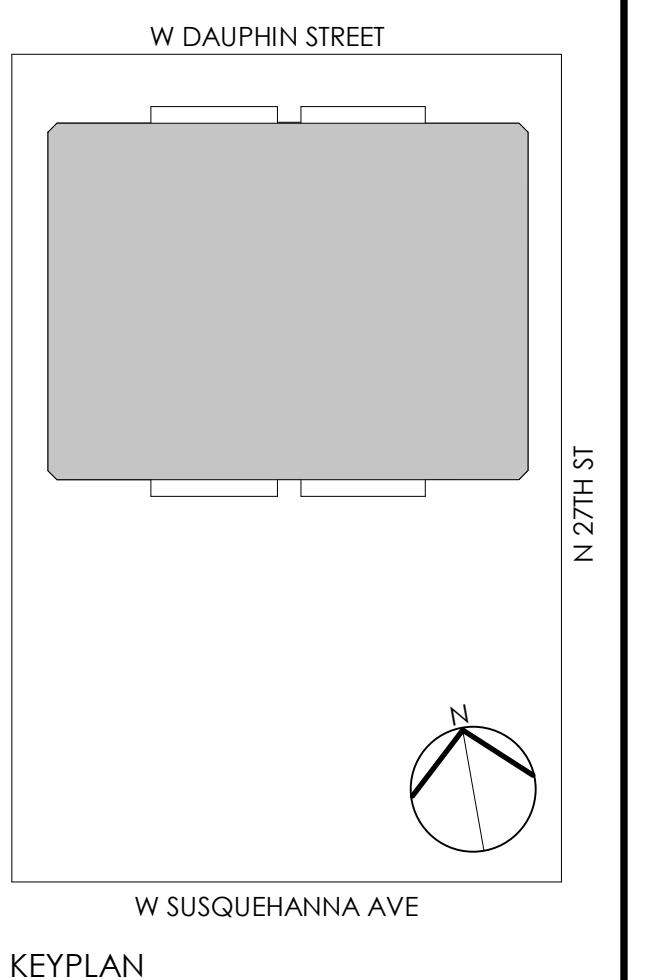
3 TYPICAL FENCE ELEVATION
SCALE: 3/4" = 1'-0"



4 FENCE FOOTING DETAIL
SCALE: 1" = 1'-0"



5 TYPICAL FENCE SECTION
SCALE: 3/4" = 1'-0"



Local File: BIM_360/1068625-SDP_MEP-FP_ID/068625.009_SDP/Model_ARCH_R21.rvt
 Central File: BIM360_LA_Central_R20.rvt
 Project Number: 068625.009
 1/25/2022 3:25:08 PM
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SCALE:

CHARLES BEAUDY, AIA
LICENSE NUMBER: RA011064X

ENGINEER OF RECORD:
MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:
GANNETT FLEMING, INC.
1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
Email: BWEISSER@GFNET.COM
AIA: BRIAN WEISSER, PE

ELECTRICAL ENGINEER:
DGV ELECTRICAL ENGINEERING, INC.
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WYLAND, PA 19374
Phone: 215.354.9161
Fax: 215.354.9163
AIA: GRAZYNA FLUCHTA, PE

ARCHITECT:
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1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
Email: BWEISSER@GFNET.COM
AIA: BRIAN WEISSER, PE

BID SUBMISSION
21 DEC 2021

3 01/25/22 ADDENDUM 3
NO. DATE REVISION

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2700 W DAUPHIN ST., PHILADELPHIA, PA 19132

PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ARCHITECTURAL DETAILS

DRAWING SCALE
As indicated

LOCATION NO. ENGINEER'S PROJECT #
4470 068625.009

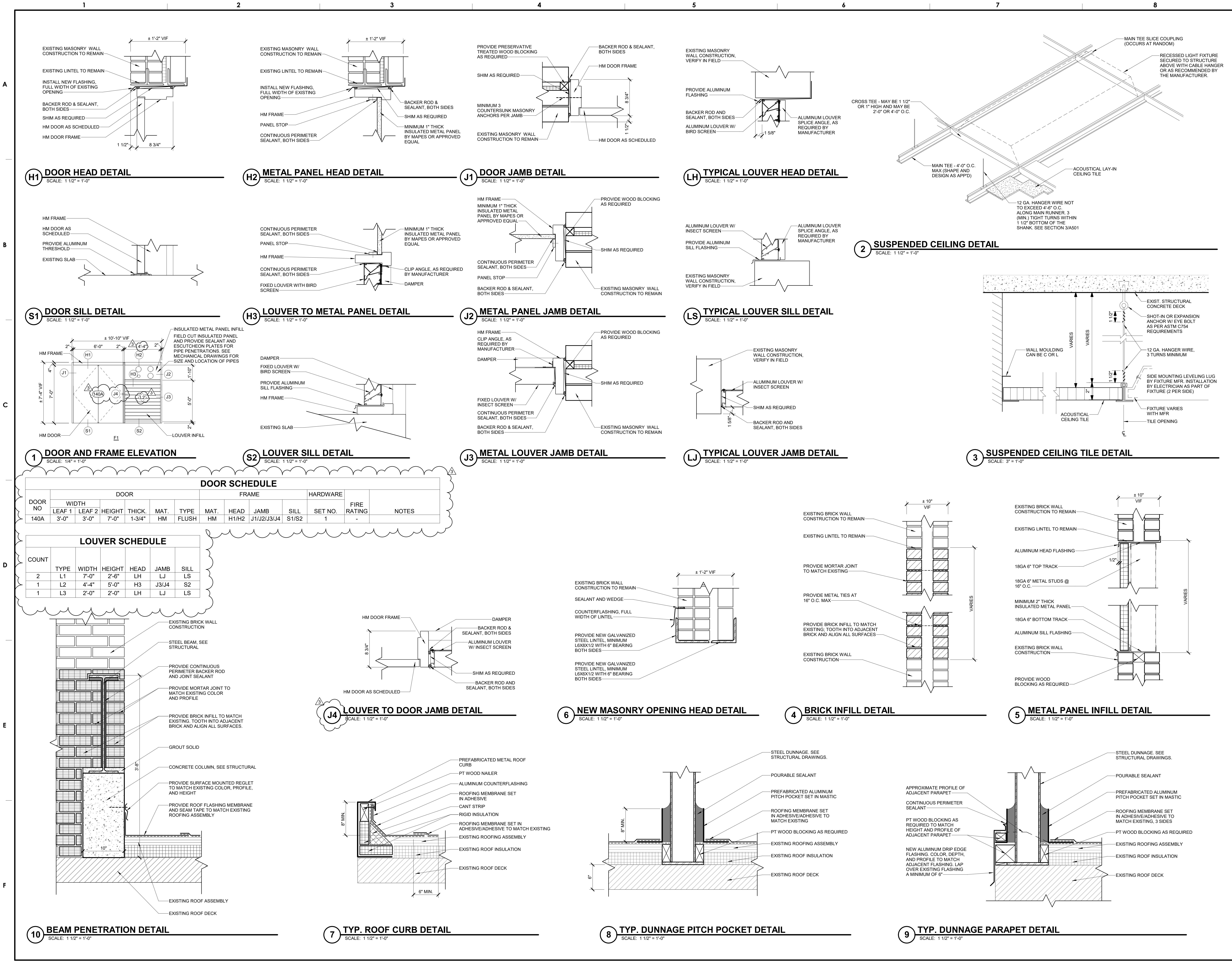
DRAWN BY CHECKED BY
JEB TY

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.

A501

SHEET 15 OF 69



DOOR SCHEDULE

DOOR NO	DOOR				FRAME			HARDWARE		FIRE RATING	NOTES	
	LEAF 1	LEAF 2	HEIGHT	THICK.	MAT.	TYPE	MAT.	HEAD	JAMB			SILL
140A	3'-0"	3'-0"	7'-0"	1-3/4"	HM	FLUSH	HM	H1/H2	J1/J2/J3/J4	S1/S2	1	-

LOUVER SCHEDULE

COUNT	TYPE	WIDTH	HEIGHT	HEAD	JAMB	SILL
2	L1	7'-0"	2'-6"	LH	LJ	LS
1	L2	4'-4"	5'-0"	H3	J3/J4	S2
1	L3	2'-0"	2'-0"	LH	LJ	LS

Project Number: 068625.009
 1/25/2022 3:25:07 PM
 Central File: BIM360_LA_Central_F20.rvt
 Local File: BIM 360/068625-SDP_MEP-FP_ID/068625.009_SDP/Arch_ARCH_R21.rvt
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SEAL: _____ DATE _____

ENGINEER OF RECORD AND MECHANICAL/PLUMBING/STRUCTURAL ENGINEER: GANNETT FLEMING, INC. 1010 ADAMS AVENUE VALLEY FORGE, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

ELECTRICAL ENGINEER: DGW ELECTRICAL ENGINEERING, INC. 232 CECILIA ACRES DRIVE WYLAND, PA 18974 Phone: 215.354.9161 Fax: 215.354.9163 Attn: GRAZYNA FLICHTA, PE

ARCHITECT: GANNETT FLEMING ARCHITECTS 1010 ADAMS AVENUE VALLEY FORGE, PA 19403 Phone: 610.783.3862 Email: BWEISSER@GFNET.COM Attn: BRIAN WEISSER, PE

ADDENDUM #3 25 JANUARY 2022

Table with 3 columns: NO, DATE, REVISION. Includes revision 2 details.

SCHOOL & LOCATION: RICHARD R. WRIGHT ELEMENTARY SCHOOL

2201-51 N. 28TH ST, PHILADELPHIA, PA 19132

PROJECT TITLE: MAJOR HVAC RENOVATION

DRAWING NAME: GENERAL NOTES, LEGENDS AND ABBREVIATIONS

Table with 2 columns: DRAWING SCALE AS INDICATED, LOCATION NO., DRAWN BY, CHECKED BY.

DRAWING NO. EL001 SHEET 65 OF 69

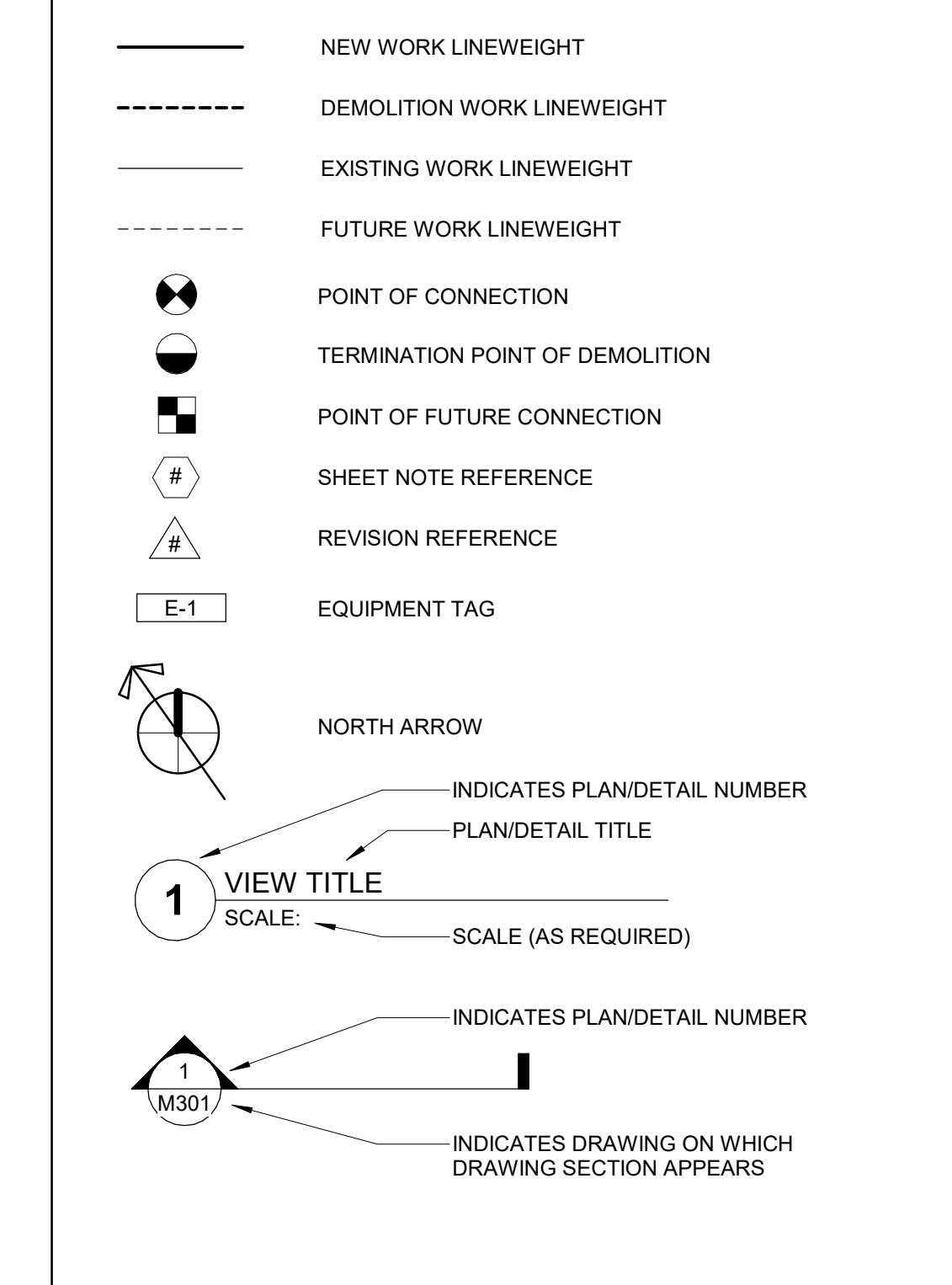
GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70) AS ADOPTED AND AMENDED BY PHILADELPHIA ELECTRICAL CODE AND THE COMMONWEALTH OF PENNSYLVANIA.
2. ALL ELECTRICAL WORK SHALL BE PROPERLY GROUNDED AND SHALL MEET ALL REQUIREMENTS OF THE APPLICABLE SECTION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ANY AUTHORITIES HAVING JURISDICTION.
3. DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO INSTALLATION...

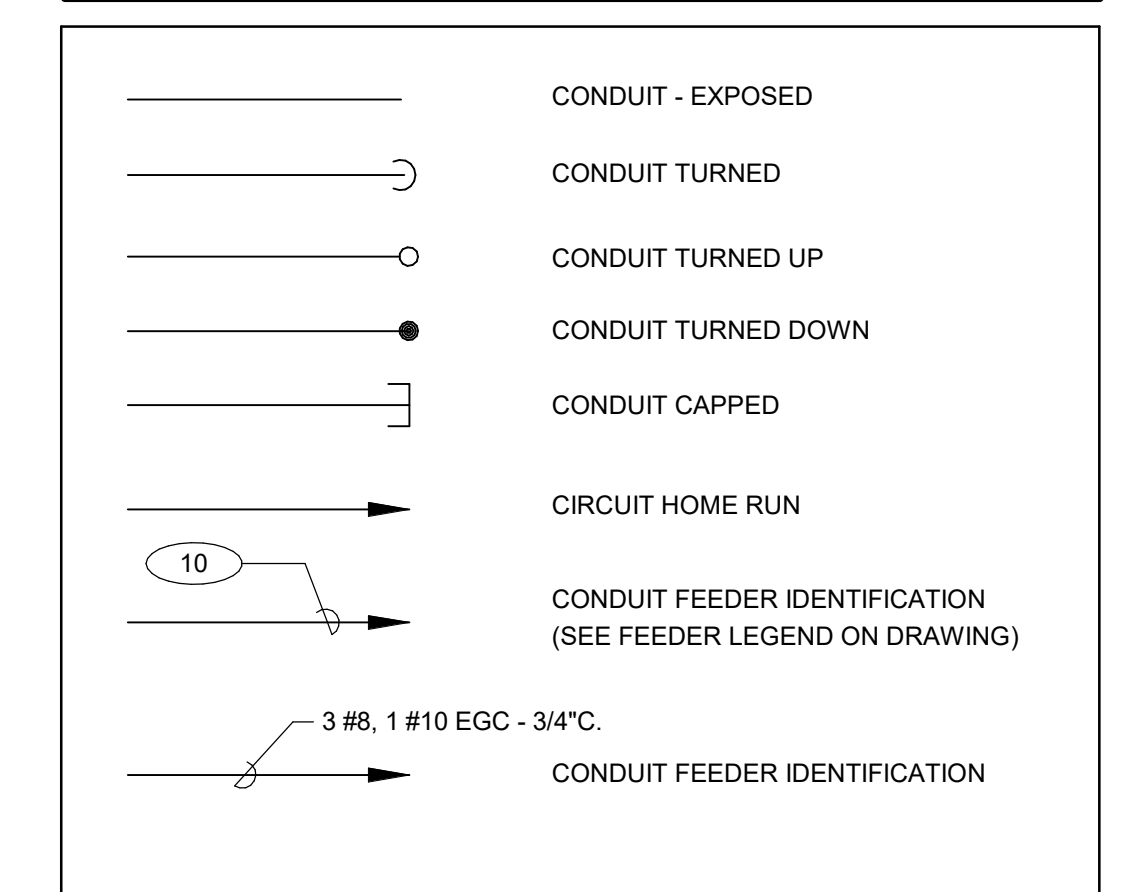
WIRING METHODS

- 1. UNDERGROUND
A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONCRETE ENCASED AND DIRECT BURIED CONDUIT SHALL BE SCHEDULE 40 PVC...
B. INDOORS
A. IN FINISHED AREAS ALL RACEWAY AND WIRING SHALL BE CONCEALED AND BOXES RECESSES...
B. IN UNFINISHED AREAS SUCH AS MECHANICAL AND ELECTRICAL ROOMS WIRING SHALL BE INSTALLED IN EMT...
C. WIRING IN THE CRAWLSPACE SHALL BE INSTALLED IN RIGID METAL CONDUIT.

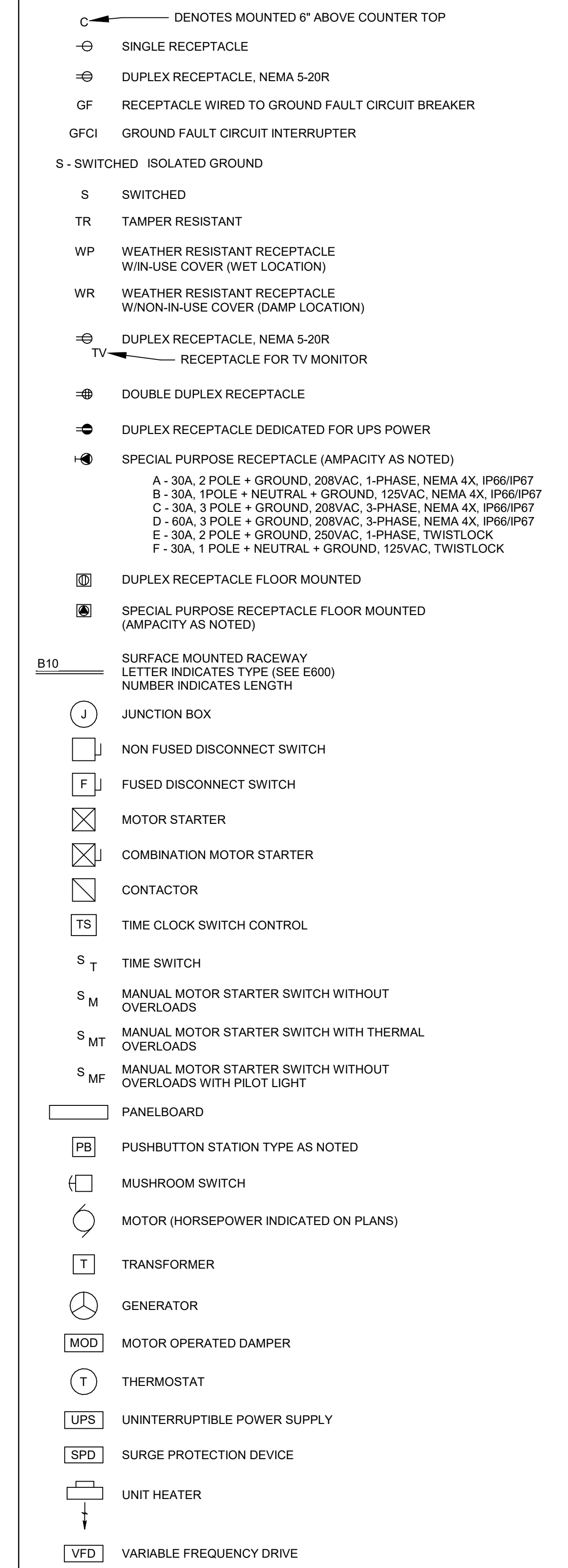
LINES & REFERENCE SYMBOLS



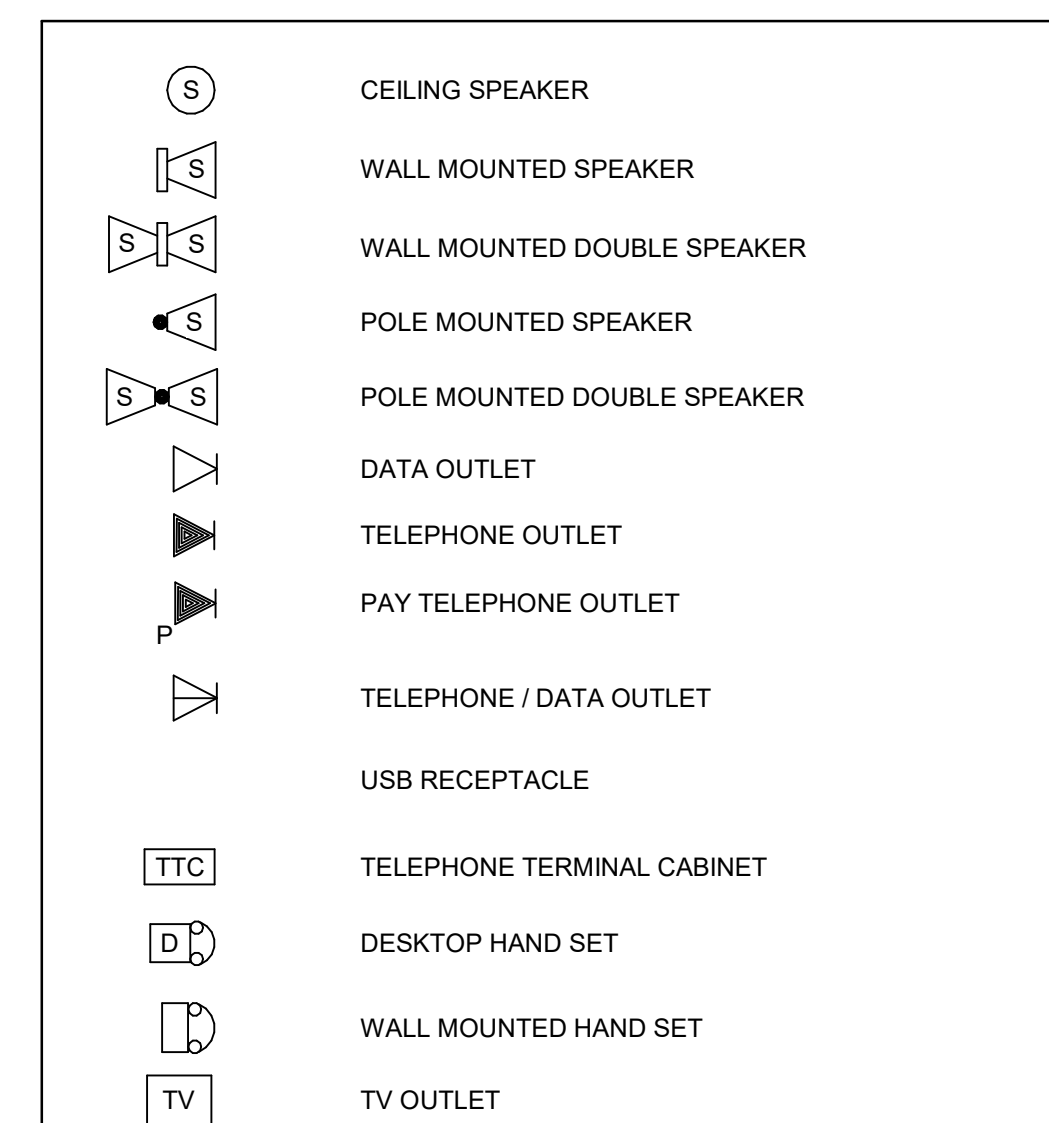
CONDUIT FEEDERS & BRANCH CIRCUITS



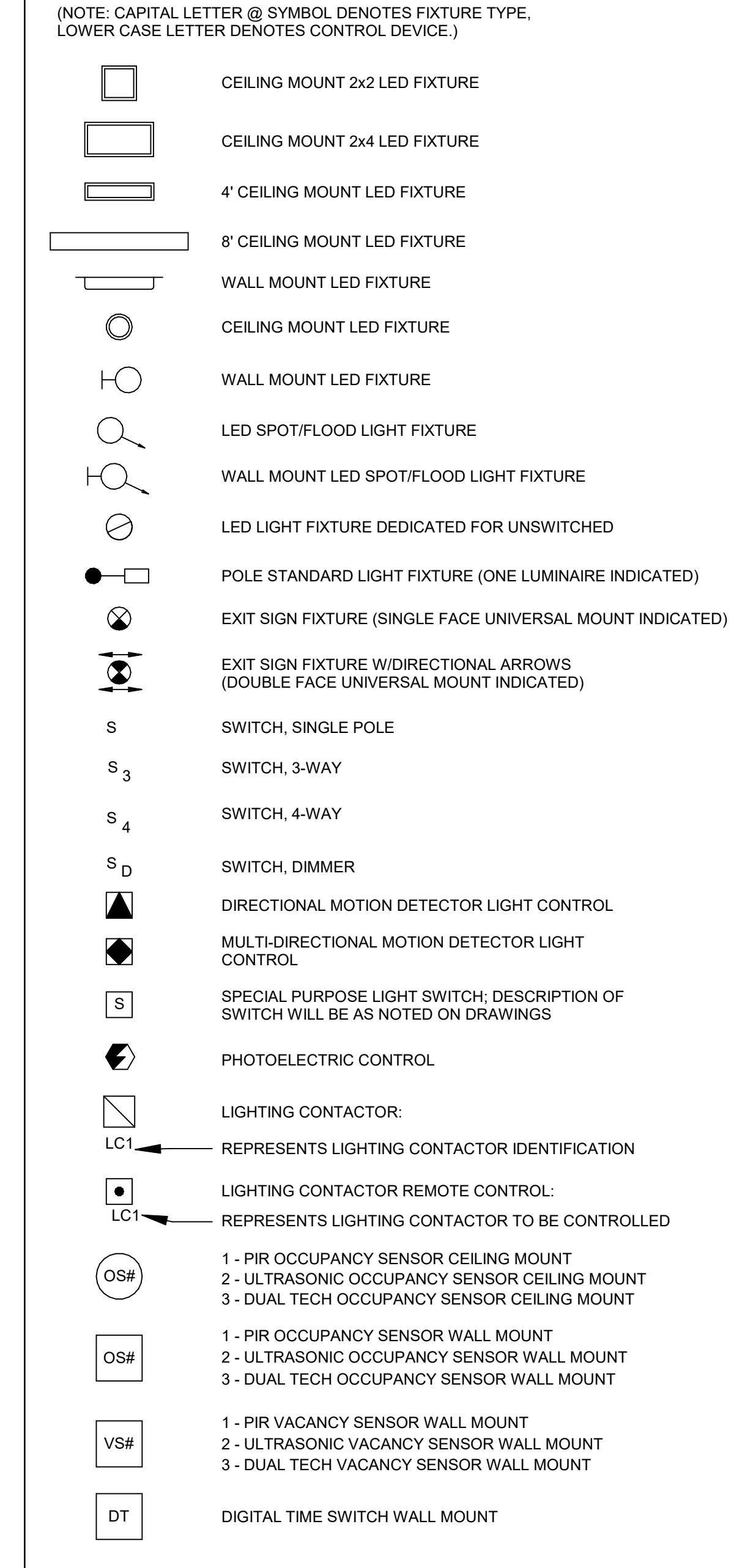
GENERAL POWER



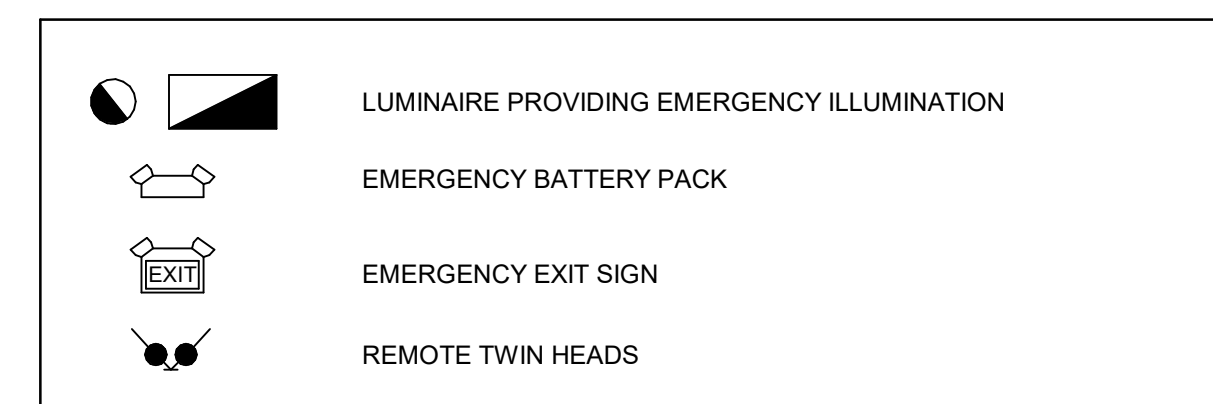
COMMUNICATION



LIGHTING



EMERGENCY LIGHTING



SEAL:

ENGINEER OF RECORD AND MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:

GANNETT FLEMING, INC.
1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
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Attn: BRIAN WEISSER, PE

ELECTRICAL ENGINEER:

DGW ELECTRICAL ENGINEERING, INC.
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ARCHITECT:

GANNETT FLEMING ARCHITECTS
1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
Email: BWESSER@GFNET.COM
Attn: BRIAN WEISSER, PE

GENERAL DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR SHALL VERIFY DESIGNATION AND CIRCUIT NUMBER FOR EACH DEVICE TO BE REMOVED.
2. ALL SYMBOLS SHOWN LIGHTLY SOLID ARE EXISTING ELECTRICAL DEVICES/EQUIPMENT TO REMAIN.
3. ALL WIRING/CONDUIT LEFT UNUSED SHALL BE REMOVED TO ITS POINT OF ORIGIN AND CIRCUIT BREAKER TO BECOME SPARE.
4. PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE PANEL SCHEDULES REVISED.
5. ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT ANY EQUIPMENT, OR ELECTRICAL CIRCUITS IN THE RENOVATED AREA WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM MAINTENANCE AND ENGINEERING DEPARTMENT. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO SURROUNDING AREAS.
6. VERIFY ALL EXISTING CONDITIONS AT JOB SITE.

DEMO SHEET KEYNOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.
2. DISCONNECT AND REMOVE EXISTING EXIT SIGNS. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH EXIT SIGNS. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.
3. DISCONNECT, REMOVE AND MAKE SAFE FOR REUSE EXISTING SMOKE DETECTORS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
4. DISCONNECT, REMOVE AND MAKE SAFE FOR REUSE EXISTING RECESSED SPEAKERS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
5. DISCONNECT, REMOVE AND MAKE SAFE FOR REUSE EXISTING SECURITY CAMERA AT VESTIBULE 100A. MAINTAIN EXISTING ASSOCIATED CIRCUIT/WIRING.

**ADDENDUM #3
25 JANUARY 2022**

NO.	DATE	REVISION

1 JAN. 18, 2022 ADDENDUM #2
NO. DATE REVISION

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

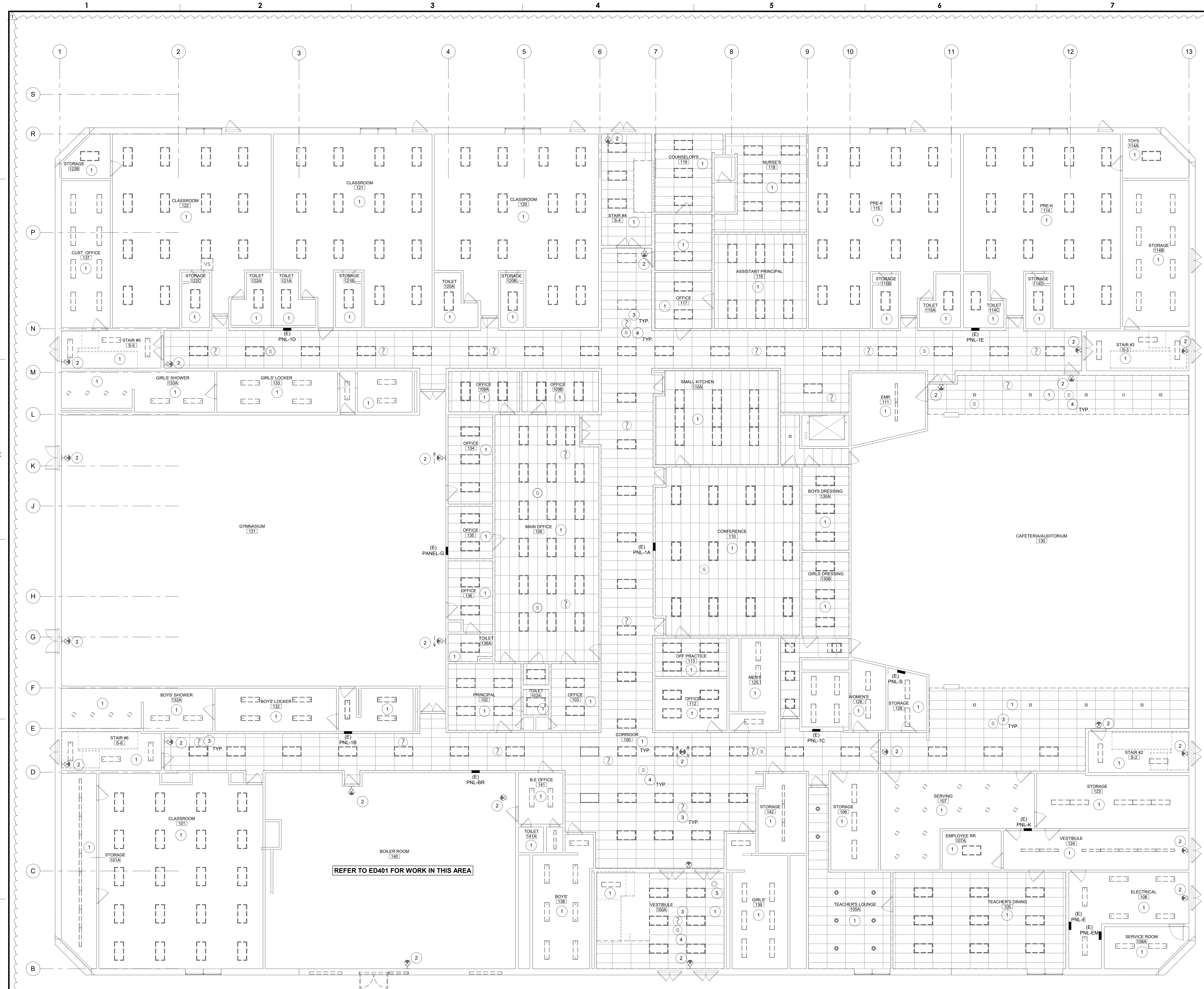
2201-S1 N. 28TH ST, PHILADELPHIA, PA 19132
PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ELECTRICAL LIGHTING FIRST FLOOR DEMOLITION PLAN

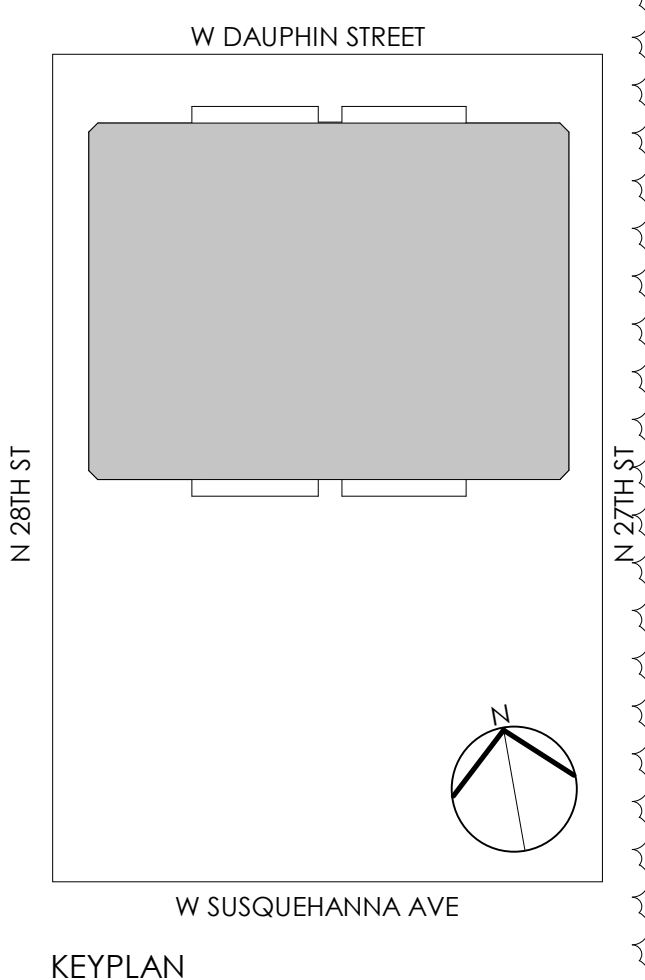
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LOCATION NO. 4470 ENGINEER'S PROJECT # 068625.009
DRAWN BY FJR CHECKED BY BAM
GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
EL101
SHEET 66 OF 69



1 ELECTRICAL LIGHTING DEMOLITION FIRST FLOOR

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



Project Number: 068625.009
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SEAL:

ENGINEER OF RECORD AND MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:

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GENERAL DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR SHALL VERIFY DESIGNATION AND CIRCUIT NUMBER FOR EACH DEVICE TO BE REMOVED.
2. ALL SYMBOLS SHOWN LIGHTLY SOLID ARE EXISTING ELECTRICAL DEVICES/EQUIPMENT TO REMAIN.
3. ALL WIRING/CONDUIT LEFT UNUSED SHALL BE REMOVED TO ITS POINT OF ORIGIN AND CIRCUIT BREAKER TO BECOME SPARE.
4. PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE PANEL SCHEDULES REVISED.
5. ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT ANY EQUIPMENT, OR ELECTRICAL CIRCUITS IN THE RENOVATED AREA WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM MAINTENANCE AND ENGINEERING DEPARTMENT. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO SURROUNDING AREAS.
6. VERIFY ALL EXISTING CONDITIONS AT JOB SITE.

DEMO SHEET KEYNOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.
2. DISCONNECT AND REMOVE EXISTING EXIT SIGNS. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH EXIT SIGNS. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.
3. DISCONNECT, REMOVE AND MAKE SAFE FOR REUSE EXISTING SMOKE DETECTORS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
4. DISCONNECT, REMOVE AND MAKE SAFE FOR REUSE EXISTING RECESSED SPEAKERS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
5. DISCONNECT, REMOVE AND MAKE SAFE FOR REUSE EXISTING SECURITY CAMERA AT VESTIBULE 100A. MAINTAIN EXISTING ASSOCIATED CIRCUIT/WIRING.

**ADDENDUM #3
25 JANUARY 2022**

NO.	DATE	REVISION
1	JAN. 18, 2022	ADDENDUM #2

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

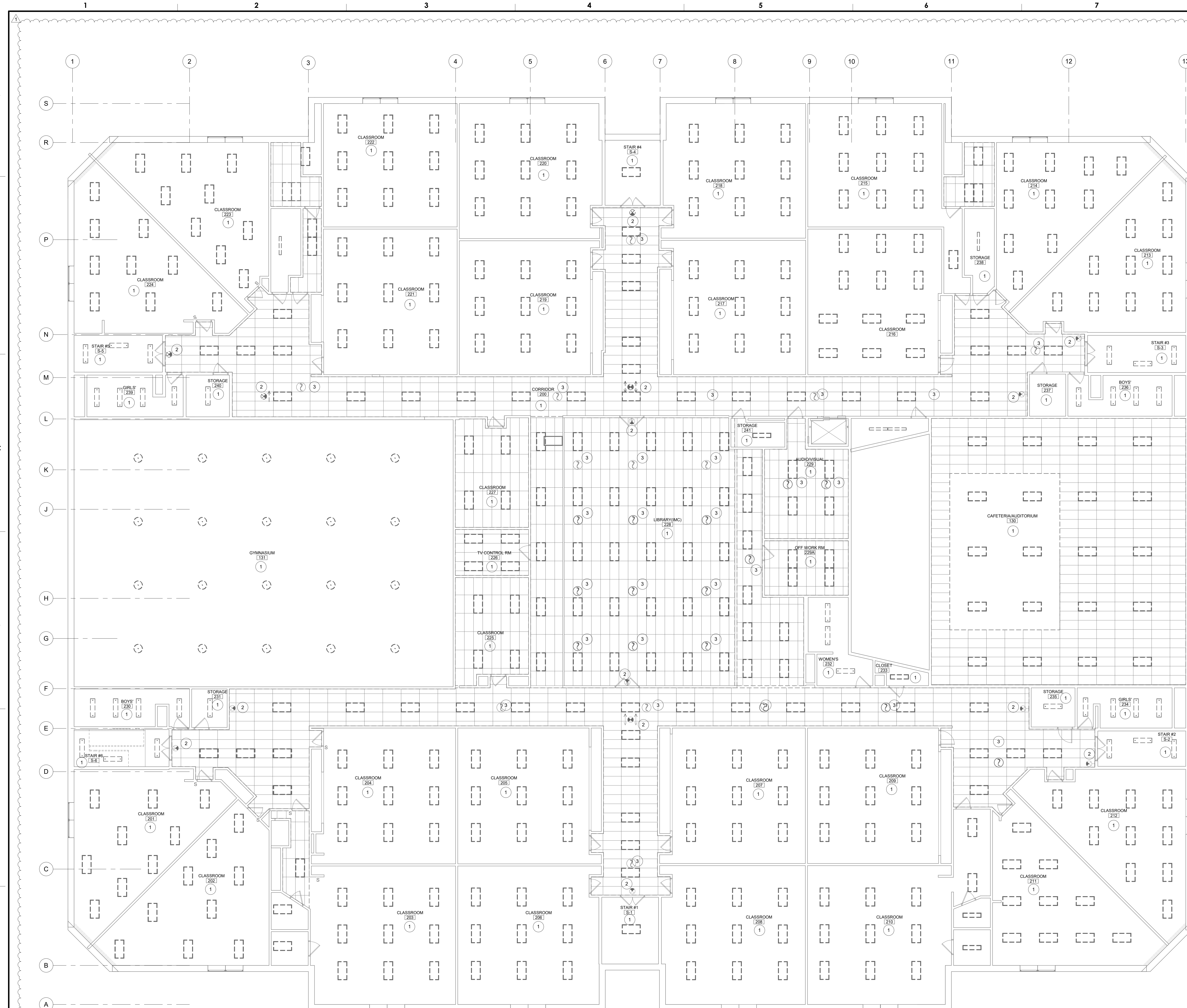
2201-51 N. 28TH ST, PHILADELPHIA, PA 19132
PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME
ELECTRICAL LIGHTING SECOND FLOOR DEMOLITION PLAN

DRAWING SCALE AS INDICATED
LOCATION NO. 4470 ENGINEER'S PROJECT # 068625.009
DRAWN BY Author CHECKED BY Checker
GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
EL102
SHEET 67 OF 69



1 ELECTRICAL LIGHTING DEMOLITION SECOND FLOOR



Project Number: 068625.009
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SEAL:

ENGINEER OF RECORD AND MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:
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GENERAL NOTES

- SEE ELECTRICAL DRAWING E001 FOR GENERAL NOTES AND PROJECT INFORMATION.
- REFER TO DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

- PROVIDE NEW LIGHT FIXTURES. RECONNECT TO EXISTING CIRCUITS/WIRING. REFER TO ARCHITECTURAL DRAWINGS FOR THE LIMIT OF THE CEILING REPLACEMENT SCOPE OF WORK. FIELD VERIFY QUANTITY AND LOCATION OF ALL DEVICES. EXTENDING WIRING CONDUIT AS NEEDED. EC SHALL ASSURE THAT ALL SYSTEMS ARE FULLY OPERATIONAL AFTER INSTALLATION.
- PROVIDE NEW PASSIVE INFRARED (PIR) LINE VOLTAGE OCCUPANCY SENSOR. LEVITON PROVOLET MODEL # DDC504V OR APPROVED EQUAL. INSTALL AND WIRE PER MANUFACTURER'S RECOMMENDATIONS.
- LIGHT FIXTURE FURNISHED WITH DIMMING OCCUPANCY SENSOR. CONNECT WITH (2) #12 (1) #12GRD IN 3/4" CONDUIT TO EXISTING 20A LIGHTING CIRCUIT AVAILABLE AFTER DEMOLITION IS COMPLETED. LIGHTING FIXTURE TO BE CONTROLLED BY OCCUPANCY SENSOR TO DIM 50% IF SPACE IS NOT OCCUPIED (NO AUTOMATIC SHUT-OFF). FIELD VERIFY CIRCUIT NUMBER.
- PROVIDE NEW EXIT SIGN. CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT (UN-SWITCHED). AVAILABLE AFTER DEMOLITION OF EXISTING EXIT SIGNS IS COMPLETED. FIELD VERIFY CIRCUIT NUMBER.
- SWITCHES TO CONTROL LIGHTS IN THE BOILER ROOM.
- COORDINATE FINAL LOCATION OF NEW LIGHTING FIXTURES WITH EQUIPMENT LAYOUT, PIPING, DUCTS, CONDUITS, ETC.
- LIGHT FIXTURES SHALL BE CHAIN MOUNTED AT THE HEIGHT OF 14" AFF IN THE HIGH CEILING AREAS AND 11" AFF OR SURFACE MOUNTED IN LOWER CEILING AREAS.
- PROVIDE NEW RECESSED IN-WALL (I.E. "WALL BOX") LINE VOLTAGE MANUAL-ON VACANCY SENSOR SWITCH. LEVITON MODEL #DVS05-LI2, OR APPROVED EQUAL.
- PROVIDE NEW LOW-VOLTAGE PASSIVE INFRARED (PIR) OCCUPANCY SENSORS. LEVITON MODEL #OSC15-LOW OR APPROVED EQUAL. QTY AS SHOWN. WITH (1) #10SP20-RDH POWER PACK, CONNECTED FOR CONTROL OF LIGHTS IN THIS ROOM AREA.
- RECONNECT EXISTING SMOKE DETECTOR PREVIOUSLY SERVING THIS AREA.
- RECONNECT EXISTING SPEAKER PREVIOUSLY SERVING THIS AREA.
- RECONNECT EXISTING SECURITY CAMERA PREVIOUSLY SERVING THIS AREA.
- PROVIDE A LOW VOLTAGE LIGHTING CONTROL SYSTEM FOR THIS SPACE CONSISTING OF A LOCAL ROOM LIGHTING CONTROLLER. WITH VACANCY SENSING OCCUPANT DETECTOR(S), DAYLIGHT SENSOR(S) AND LOW VOLTAGE ON/OFF/DIM CONTROL SWITCH(S), AS SHOWN. (NOTE: DAYLIGHT SENSORS MAY NOT BE REQUIRED IN ALL SPACES.) REFER TO SPECIFICATIONS SECTION 26 09 23.
- PROVIDE B-LEVEL SWITCHING IN THIS SPACE TO ALLOW FOR MANUAL (+/-) 50% LIGHT LEVEL REDUCTION.
- SAME AS NOTE NO. 2 EXCEPT OCCUPANCY SENSOR SHALL BE SUITABLE FOR A DAMPHIGH HUMIDITY ENVIRONMENT.
- PROVIDE A LOW VOLTAGE LIGHTING CONTROL SYSTEM FOR THIS SPACE CONSISTING OF A LOCAL ROOM LIGHTING CONTROLLER. WITH VACANCY SENSING OCCUPANT DETECTOR(S) AND LOW REFER TO SPECIFICATIONS, SECTION 26 09 23.

**ADDENDUM #3
25 JANUARY 2022**

NO.	DATE	REVISION
1	JAN. 18, 2022	ADDENDUM #2

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2201-S1 N. 28TH ST, PHILADELPHIA, PA 19132

PROJECT TITLE

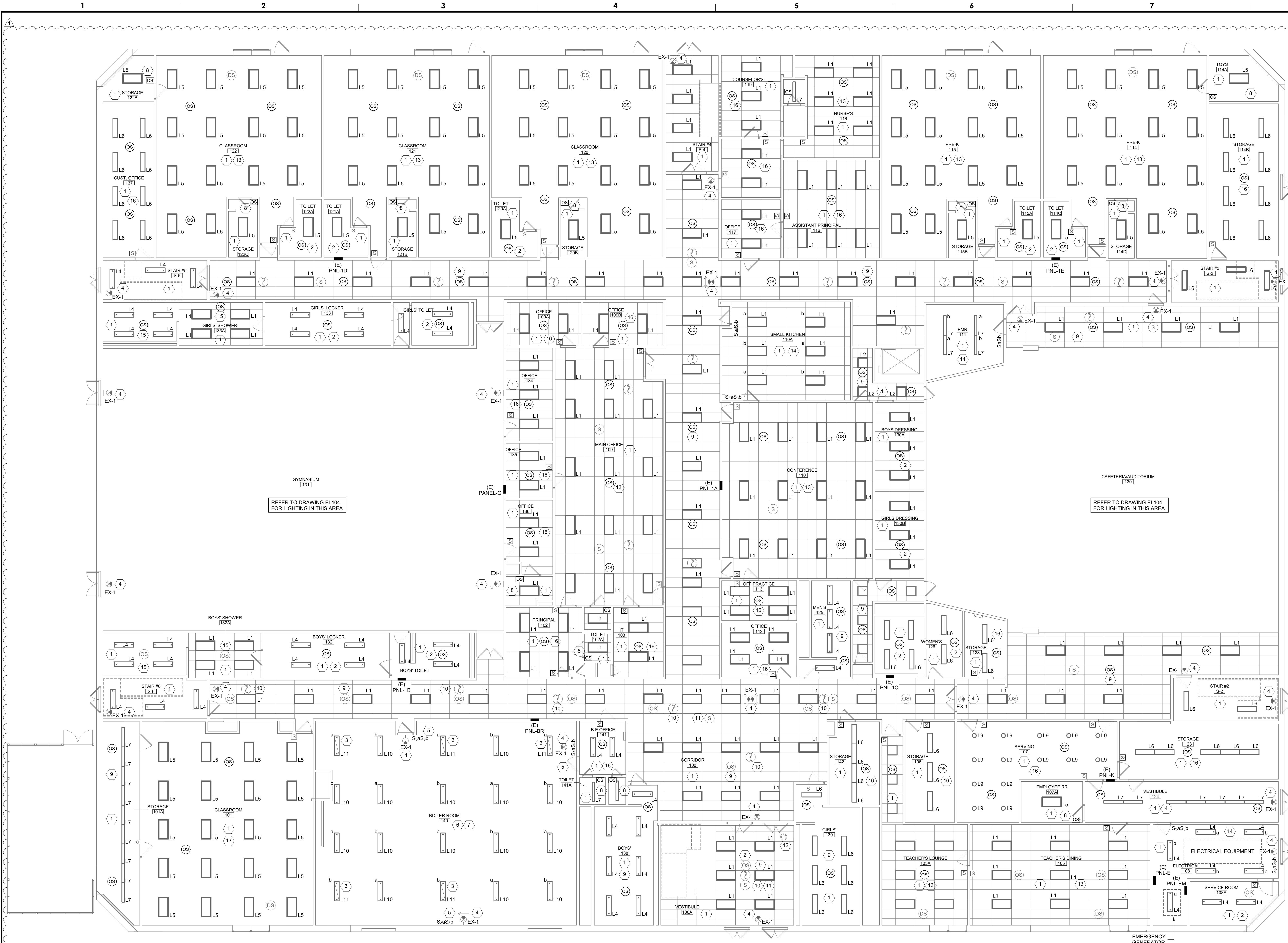
MAJOR HVAC RENOVATION

DRAWING NAME
ELECTRICAL LIGHTING FIRST FLOOR NEW WORK

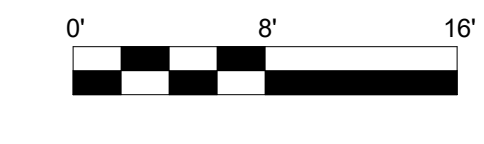
DRAWING SCALE AS INDICATED
LOCATION NO. 4470 ENGINEER'S PROJECT # 068625.009
DRAWN BY FJR CHECKED BY BAM

GC: B-089(c) OF 2018/2019
MC: B-079(c) OF 2018/2019
PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.
EL103
SHEET 68 OF 69



1 ELECTRICAL LIGHTING NEW WORK FIRST FLOOR
SCALE: 1/8" = 1'-0"



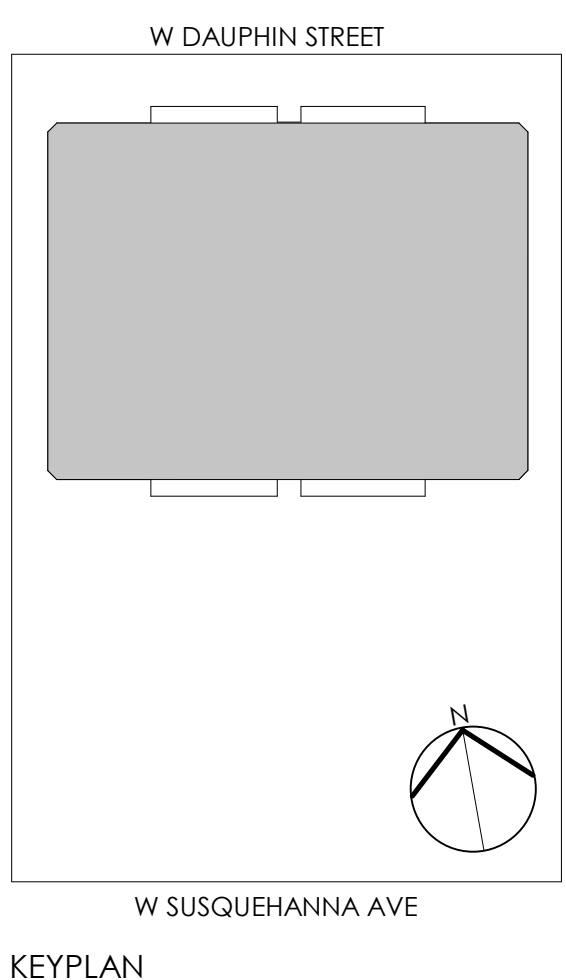
FOOTCANDLE LEVEL:
SDP STANDARD FC LEVEL FOR MECHANICAL SPACES: 25FC MIN.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LAMP QTY.	LAMP TYPE	MAX. WATTAGE	VOLTS	MOUNTING
L1	2x4 LED RECESSED TROFFER - GTL SERIES	LITHONIA	2GTL 4 48L GZ10 LP840	1	LED	36	120	CEILING RECESSED
L2	2x2 LED RECESSED TROFFER - GTL SERIES	LITHONIA	2GTL 2 33L GZ10 LP835	1	LED	28	120	CEILING RECESSED
L3	1x4 LED RECESSED TROFFER - GTL SERIES	LITHONIA	GTL 4 40L GZ10 LP835	1	LED	34	120	CEILING RECESSED
L4	1x4 LED SUSPENDED	LITHONIA	GTL 4 40L GZ10 LP835	1	LED	34	120	SUSPENDED
L5	2x4 T SERIES SURFACE MOUNT	LITHONIA	2TLX4 40L FW A12 E21 LP835	1	LED	32	120	SURFACE MOUNTED
L6	1x4 T SERIES SURFACE MOUNT	LITHONIA	TLX 40L FW A12 E21 LP835	1	LED	39	120	SURFACE MOUNTED
L7	4" LED STRIP LIGHT	LITHONIA	CSS L48 4000LM IMAFL W0 MVOLT GZ10 40K 80CRI	1	LED	35	120	SURFACE MOUNTED
L8	LED DAMP RATED HIGH BAY	LITHONIA	JCBL 12000LM ACRFGL MVOLT GZ10 40K 80CRI PM FWG	1	LED	81	120	SUSPENDED
L9	DOWNLIGHT (NEW CONSTRUCTION)	LITHONIA	LB98 AL02 SWIVY AR LSS MVD MVOLT U02 90CRI	1	LED	24	120	CEILING RECESSED
L10	FEM LED LOW PROFILE	LITHONIA	FEM L48 4000LM IMAFL W0 MVOLT GZ10 40K 80CRI	1	LED	24	120	SUSPENDED
L11	FEM LED LOW PROFILE/EMERGENCY CIRCUIT	LITHONIA	FEM L48 4000LM IMAFL W0 MVOLT GZ10 40K 80CRI	1	LED	24	120	SUSPENDED

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N 28TH ST



SEAL:

GENERAL NOTES

- SEE ELECTRICAL DRAWING E001 FOR GENERAL NOTES AND PROJECT INFORMATION.
- REFER TO DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

- PROVIDE NEW LIGHT FIXTURES. RECONNECT TO EXISTING CIRCUITS/WIRING. REFER TO ARCHITECTURAL DRAWINGS FOR THE CEILING REPLACEMENT SCOPE OF WORK. FIELD VERIFY QUANTITY AND LOCATION OF ALL DEVICES. EXTEND WIRING/CONDUIT AS NEEDED. EC SHALL ASSURE THAT ALL SYSTEMS ARE FULLY OPERATIONAL AFTER INSTALLATION.
- PROVIDE NEW PASSIVE INFRARED (PIR) LINE VOLTAGE OCCUPANCY SENSOR, LEVITON PROVOLT MODEL # ODC15-IDW, OR APPROVED EQUAL. INSTALL AND WIRE PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NEW RECESSED IN-WALL (I.E. "WALL BOX") LINE VOLTAGE MANUAL-ON VACANCY SENSORS/SWITCH, LEVITON MODEL #DV50S-1LZ, OR APPROVED EQUAL.
- PROVIDE NEW LOW-VOLTAGE PASSIVE INFRARED (PIR) OCCUPANCY SENSORS, LEVITON MODEL #OSC15-IDW OR APPROVED EQUAL. QTY AS SHOWN, WITH (1) #0SP20-RDM POWER PACK, CONNECTED FOR CONTROL OF LIGHTS IN THIS ROOM AREA.
- STAIR #6 - L4 LIGHT FIXTURE TYPE ON THIS FLOOR AND AT THE ENTRANCE TO THE ROOF.
- PROVIDE NEW EXIT SIGN. CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT (LN-SWITCHED). AVAILABLE AFTER DEMOLITION OF EXISTING EXIT SIGNS IS COMPLETED. FIELD VERIFY CIRCUIT NUMBER.
- RECONNECT EXISTING SMOKE DETECTOR PREVIOUSLY SERVING THIS AREA.
- RECONNECT EXISTING SPEAKER PREVIOUSLY SERVING THIS AREA.
- NOTE NOT USED.
- PROVIDE A LOW VOLTAGE LIGHTING CONTROL SYSTEM FOR THIS SPACE CONSISTING OF A LOCAL ROOM LIGHTING CONTROLLER WITH VACANCY SENSING OCCUPANT DETECTOR(S), DAYLIGHT SENSOR(S) AND LOW VOLTAGE ON/OFF/DIM CONTROL SWITCH(S) AS SHOWN. (NOTE: DAYLIGHT SENSORS MAY NOT BE REQUIRED IN ALL SPACES.) REFER TO SPECIFICATIONS, SECTION 26 09 23.
- PROVIDE BI-LEVEL SWITCHING IN THIS SPACE TO ALLOW FOR MANUAL (+/-) 50% LIGHT LEVEL REDUCTION.
- PROVIDE A LOW VOLTAGE LIGHTING CONTROL SYSTEM FOR THIS SPACE CONSISTING OF A LOCAL ROOM LIGHTING CONTROLLER WITH VACANCY SENSING OCCUPANT DETECTOR(S) AND LOW REFER TO SPECIFICATIONS, SECTION 26 09 23.

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**ADDENDUM #3
25 JANUARY 2022**

NO.	DATE	REVISION
1	JAN. 18, 2022	ADDENDUM #2

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

2201-51 N. 28TH ST, PHILADELPHIA, PA 19132

PROJECT TITLE

MAJOR HVAC RENOVATION

DRAWING NAME

**ELECTRICAL LIGHTING
SECOND FLOOR NEW WORK**

DRAWING SCALE

AS INDICATED

LOCATION NO.

4470

ENGINEER'S PROJECT #

068625.009

DRAWN BY

FJR

CHECKED BY

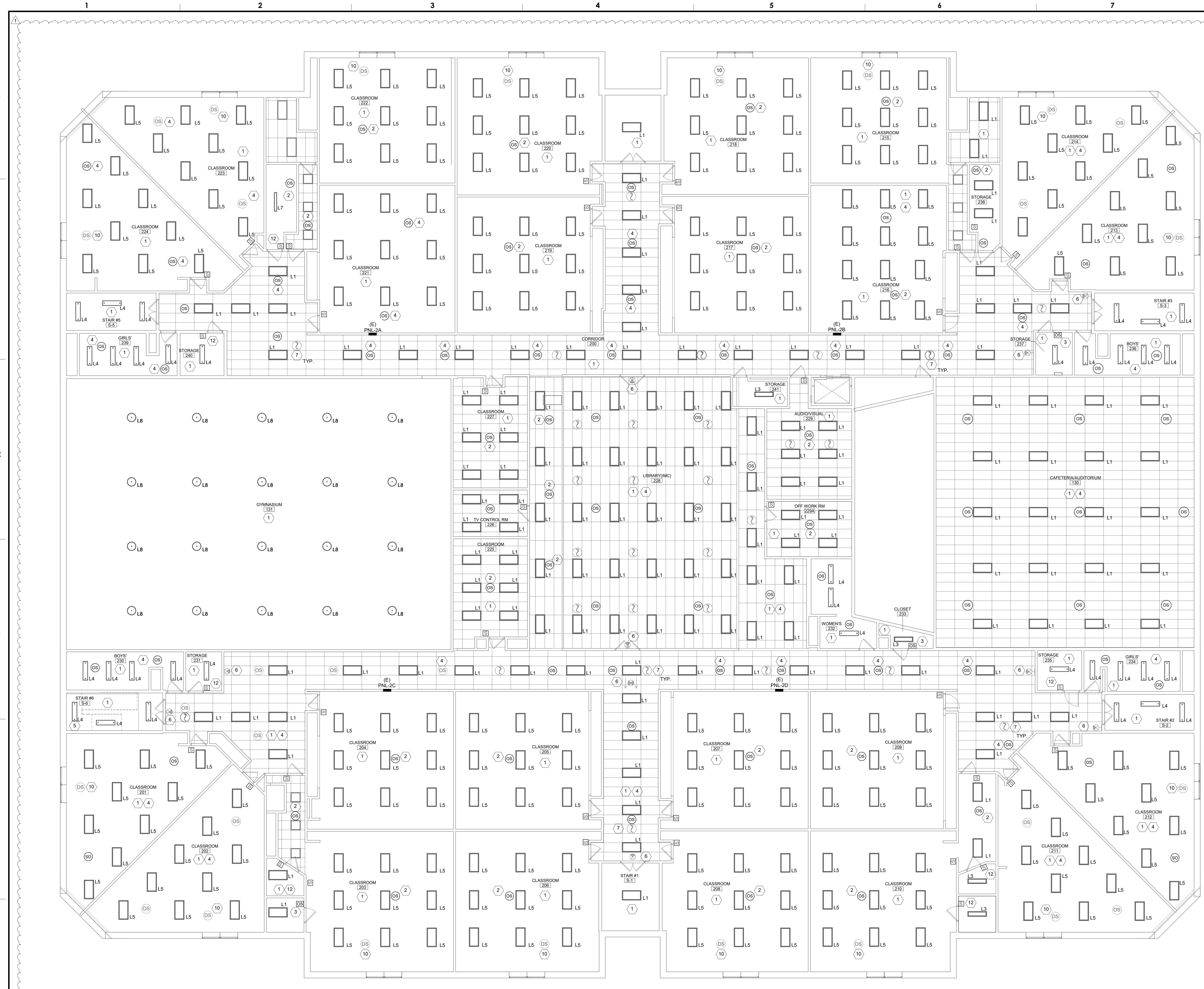
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PC: B-090(c) OF 2018/2019
EC: B-080(c) OF 2018/2019

DRAWING NO.

EL104

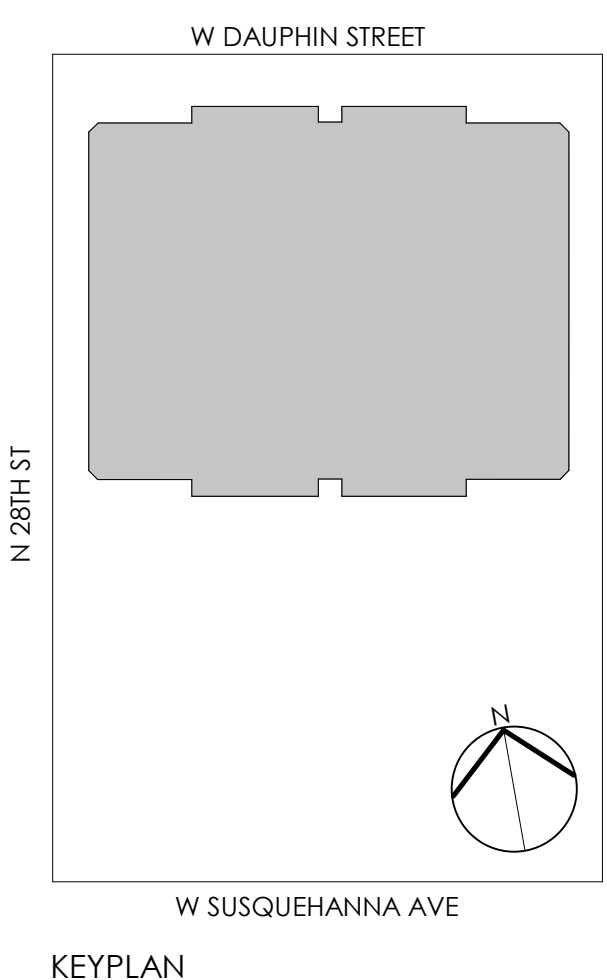
SHEET 69 OF 69



1 ELECTRICAL LIGHTING NEW WORK SECOND FLOOR
SCALE: 1/8" = 1'-0"



***REFER TO LIGHT FIXTURE SCHEDULE ON SHEET EL103.**



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