

THE SCHOOL DISTRICT OF PHILADELPHIA
Office of Capital Programs
440 North Broad Street, 3rd. Floor – Suite
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TELEPHONE: (215) 400-4730

ADDENDUM No. 04

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 February 2, 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.

1. NOTICE: BID OPENING POSTPONED TO THURSDAY, FEBRUARY 10, 2022

2. BIDDER QUESTIONS AND RESPONSES

Question #1:

GC scope calls for chimney to be pointed but there is no drawing or scope of work. Please clarify.

Response:

Repointing of the chimney is not required for this project. See revised scope of work to clarify.

Question #2:

Drawing AD 101 does not show all the roof penetrations ie. New exhaust fans and gravity fans.

Response:

New penetrations for EF-4, GRV-205, GRV-207, GRV-217, GRV-219, EF-11, and EF-18 as well as modifications to existing penetrations for EF-9, EF-19, EF-6, and EF-7 were erroneously omitted from AD105 as issued for bid. See attached revised AD105 indicating General Contractor scope to remove roofing, insulation, and deck as needed for new penetrations as well as prepare existing penetrations for reuse.

Question #3:

On drawings EL103 and EL104, please confirm the symbol “DS” refers to a daylight sensor. This symbol is not shown on the symbols list.

Response:

Confirmed, the “DS” symbol represents a daylight sensor.

Question #4:

Please confirm the lighting controls mentioned keynotes 13 and 16 on EL103 and keynotes 10 and 12 on EL104 are digital. These keynotes reference spec section 260923 (distributed in addendum #3), and the basis of design model numbers in these specs are for a digital system.

Response:

Confirmed, the controls required by the referenced drawing keynotes are digital systems as specified in Section 260923.

Question #5:

It seems keynote 16 on EL103 is cut off, as it says "...with vacancy sensing occupant detectors and low refer to specifications..." It is assumed that this keynote is meant to call for digital similar to keynote 13. Please confirm our assumption is correct. Additionally, please confirm if we are to provide on/off/dim or just on/off switches. [This question allow applies to keynotes 10 and 12 on EL104.]

Response:

Keynote #16 on EL103 is to read, "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 VOLTAGE ON/OFF CONTROL SWITCH(ES). REFER TO SPECIFICATIONS, SECTION 26 09 23." The same is true for Keynote #12 on EL104. (To clarify, Keynotes #13 (EL103) and #10 (EL104) are digital lighting control systems with manual dimming (on/off/dim switches). Keynotes #16 (EL103) and #12 (EL104) are digital lighting control systems with manual on/off control switches.)

Question #6:

On EL103, Vestibule 100A has keynote 2 (line voltage occupancy sensor) and keynote 9 (low voltage occupancy sensor with power pack) at the occupancy sensor. Please confirm we are to provide devices per keynote 9 to match the rest of the corridors.

Response:

Since the vestibule requires only a single occupancy sensor, the design intent is to utilize a line voltage device in Vestibule 100A as per Keynote #2.

Question #7:

On EL103, please clarify what type of switch should be provided in Service Room 108A. Per keynote #2, we are to provide a line voltage occupancy sensor in this room, but the type of switch is unclear.

Response:

Keynote #2 in Service Room 108A is incorrect; this should be Keynote #16. Provide a digital lighting control system with a vacancy-sensing occupant detector and a low voltage on/off control switch.

Question #8:

On EL104, please clarify what type of switch should be provided in rooms 227, 225, 229, 229A, and 238. Per keynote #2, we are to provide a line voltage occupancy sensor in this room, but the type of switch is unclear.

Response:

Keynote #2 in Classroom 227, Classroom 225, A/V 229, and Work Room 229A is incorrect; the correct notes are Keynote #10 for Classrooms 225 & 227 (low voltage on/off/dim digital controls) and Keynote #12 for A/V 229 & Work Rm 229A (low voltage on/off digital controls). For Storage 238, provide a line voltage single-pole light switch for manual override Off.

Question #9:

On EL104, rooms 201, 202, 211, 212, 213, 214, 223, 224 have both keynotes #4 at the occupancy sensor (low voltage occupancy sensor with power pack) and keynote 10 at the daylight sensor (assuming digital sensor based on reference to spec section 260923). Please confirm the occupancy sensor should be a digital sensor, not a low voltage sensor with a power pack. If low voltage with power pack, please clarify what kind of switch to provide in these rooms.

Response:

In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #10:

On EL104, rooms 222, 220, 218, 215, 203, 206, 208, 210 have both keynotes #2 at the occupancy sensor (line voltage occupancy sensor) and keynote 10 at the daylight sensor (assuming digital sensor based on reference to spec section 260923). Please confirm the occupancy sensor should be a digital sensor, not a line voltage sensor. If line voltage, please clarify what kind of switch to provide in these rooms.

Response:

In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #11:

On EL104, rooms 219, 217, 204, 205, 207, 209 have keynote #2 at the occupancy sensor (line voltage occupancy sensor). However, we believe based on the other classroom designs in this project, that we should be providing a digital lighting control system in this room (e.g. keynote 10). Please confirm we are to provide digital devices per keynote 10. If line voltage, please clarify what kind of switch to provide in these rooms.

Response:

In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #12:

On EL104, room 216 has keynote 2 (line voltage occupancy sensor) and also keynote 4 (low voltage occupancy sensor with power pack) at the occupancy sensors. Please confirm both of these keynote references are incorrect, and that we are to provide digital devices per keynote 10. If line voltage or low voltage with power pack, please clarify which of the 2 options we should follow, and clarify what type of switch should be provided.

Response:

In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches.

Question #13:

On EL104, room 221 has keynote 4 (low voltage occupancy sensor with power pack) at the occupancy sensors. Please confirm this keynote is incorrect, and that we are to provide digital devices per keynote 10. If low voltage with power pack, please clarify what kind of switch to provide in this room.

Response:

In ALL Classrooms, the correct note is Keynote #10. ALL Classrooms are to be provided with a digital low voltage control system with vacancy-sensing occupant detectors and low voltage on/off/dim control switches

Question #14:

On EL104, the small room to the right of room 223 has keynote 2 (line voltage occupancy sensor) and keynote 12 (assuming digital sensor based on reference to spec section 260923). Please confirm keynote 2 is incorrect, and that we are to provide digital devices per keynote 12. If line voltage, please clarify what kind of switch to provide in this room.

Response:

Keynote #2 applies to this room (Keynote #12 should be deleted). Provide a line voltage single-pole light switch for manual override Off.

Question #15:

On EL103, for vestibule 124, please clarify what type of occupancy sensor should be provided, as there is no keynote to clarify low voltage with power pack, line voltage, or digital.

Response:

In Vestibule 124, provide low voltage occupancy sensors with a power pack as per Keynote #9.

Question #16:

On EL104, for room 232, please clarify what type of occupancy sensor should be provided, as there is no keynote to clarify low voltage with power pack, line voltage, or digital.

Response:

In Women's Room 232, provide low voltage occupancy sensors with a power pack as per Keynote #4.

Question #17:

On EL104, for room 226, please clarify what type of occupancy sensor and switch should be provided. There is no keynote to clarify low voltage with power pack, line voltage, or digital occupancy sensor, and it is unclear what switch type to provide.

Response:

For TV Control Room 226, provide a digital low voltage control system with a low voltage on/off control switch, as per Keynote #12.

Question #18:

For keynotes 13 and 16 on EL103 and keynotes 10 and 12 on EL104, which reference spec section 260923, please clarify which type of occupancy sensor should be provided in these rooms: PIR, ultrasonic, or dual-tech. The spec lists all of the above [Wattstopper LMPC (PIR), LMUC (ultrasonic), LMDC (dual-tech)] so it is unclear which to provide.

Response:

Provide passive infrared (PIR) occupancy sensors for all digital control systems.

Question #19:

For keynotes 13 and 16 on EL103 and keynotes 10 and 12 on EL104, please provide basis of design model number for the digital daylight sensor, as it is not listed in spec section 260923.

Response:

Basis of Design, Wattstopper DLM Photosensor, product number LMLS-400-U.

3. DRAWING REVISIONS

1. EDIT the following sheets as attached:
 - AD105 – Architectural Second Floor Demolition Plan
 - 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

4. SPECIFICATION REVISIONS

1. SUMMARY OF WORK
 - a. DELETE 3.a.2: "Secure, repair, and repoint chimney brickwork."

End of Addendum

SECTION 01 1000 – SUMMARY OF WORK

PART 1 GENERAL

NOTE: Prime Contractors must use the Internet web-based project management communications tool, E-Builder® software, and protocols included in that software for this project.

Prime Contractors shall contact the SDP Contracts Manager for information on how to secure and pay for the necessary license(s) for themselves and their Subcontractors. The estimated cost is \$1,301 for an annual license. A license may be shared or individual seats purchased at an additional cost.

The use of this project management communications tool does not replace or change any contractual responsibilities of the participants

(1) NOTE: THE MECHANICAL CONTRACTOR IS DESIGNATED AS THE LEAD PRIME CONTRACTOR FOR SCHEDULING AND COORDINATION PURPOSES

(2) NOTE: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL REMEDIATION FOR THIS PROJECT REQUIRED UNDER SECTION 01 1135 ASBESTOS ABATEMENT AND SECTION 01 1145 SOILS MANAGEMENT

(3) NOTE: ALL ASBESTOS ABATEMENT OR OTHER ENVIRONMENTAL REMEDIATION IN ATTIC AREAS IS LIMITED TO THE SUMMER TIME WHEN THE SCHOOL IS NOT IN SESSION.

(4) NOTE: ALL ASBESTOS ABATEMENT AND OTHER ENVIRONMENTAL REMEDIATION IN OTHER AREAS SHALL BE LIMITED TO AFTER SCHOOL HOURS WHENEVER THE SCHOOL IS IN SESSION.

(5) NOTE: ALL AREAS NOT UNDER ABATEMENT SHALL BE AVAILABLE FOR NORMAL SCHOOL OPERATIONS ON DAYS WHEN THE SCHOOL IS IN SESSION.

(6) NOTE: ALL PRIME CONTRACTORS SHALL COORDINATE THE MARKING OF LOCATIONS IN PAINTED CEILINGS, WALLS AND VAT TILE FLOORS FOR ATTACHMENT OR CORING OF MEP CONDUIT, PIPING OR DUCTWORK WITH THE ABATEMENT CONTRACTOR.

1. GENERAL

1. SECTION INCLUDES:

A. General Description of Project and Location.

2. SITE LOCATION

Richard R. Wright School, 2700 W Dauphin St, Philadelphia, PA 19132

3. WORK COVERED BY CONTRACT DOCUMENTS

Design Goals and Objectives: The project intent is to renovate the finishes and HVAC System to restore the building's suitable for occupancy.

A. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **General Construction Contractor** includes, but is not limited to the following.

1. Paint interior surfaces of mechanical spaces (e.g. walls, ceilings, equipment pads).
2. ~~Secure, repair, and repoint chimney brickwork. N/A~~
3. Modify roofing and structure as needed to support new rooftop HVAC equipment.
4. Remove existing and provide concrete equipment pads. Provide concrete floor repairs.
5. Provide an aluminum louver fence at the new air cooled chiller.
6. Provide steel framing for rooftop mechanical equipment.
7. Patch and repair roof.
8. Remove existing and provide new louvers throughout the building.
9. Remove existing ceilings and provide ceilings.
10. Provide penetrations for mechanical equipment.
11. Provide doors, frames, and hardware.

B. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **Mechanical Contractor** includes, but is not limited to the following.

1. Act as the primary contractor for coordination of construction activities with other contractors. Coordinate and publish cohesive schedules of all activities throughout construction.
2. Remove existing boiler plant and provide new condensing boiler plant.
3. Provide a new air-cooled chiller plant.
4. Remove existing steam system and provide new dual-temperature water system with dual-temperature terminal equipment (e.g. unit ventilators, variable air volume units, cabinet heaters, unit heaters, fan coils, convectors).
5. Remove existing and provide new air handling units as well as HVAC load recovery units.
6. Remove existing and provide new exhaust fans.
7. Remove existing pneumatic controls in their entirety and provide a new Building Automation System (BAS) for control of all HVAC equipment.
8. Provide new natural gas booster pumps and natural gas piping. Coordinate all work with the Philadelphia Gas Works (PGW).
 - a. Procure an environmental subcontractor. Abate all asbestos. Stabilize all lead-based paint.
 - b. Temporarily re-insulate all exposed HVAC piping and permanently insulate all plumbing piping upon abatement of asbestos insulation.
9. Procure a Provide Testing, Adjusting, and Balancing (TAB) subcontractor and provide all TAB Services for all HVAC equipment airside and water system.
10. Assist SDP Commissioning Authority with commissioning of Mechanical Equipment.

C. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **Plumbing Contractor** includes, but is not limited to the following.

1. Provide new domestic water heaters and circulating pumps.
2. Provide new stainless steel wall-hung sink in the boiler room.
3. Provide new backflow preventer and water softener system for makeup water to the HVAC system.
4. Replace floor drain covers and connect new fixtures to the sanitary system. Provide on-demand floor drain cleaning service throughout the duration of the project.
5. Provide new floor drains and drain piping for new HVAC equipment.
6. Assist SDP Commissioning Authority with commissioning of Plumbing Equipment.

- E. Without intending to limit or restrict extent of work required under Contract, Work to be performed by the **Electrical Contractor** includes, but is not limited to the following.
1. Provide new power panels, wiring, conduit, and panels for HVAC and Plumbing Systems.
 2. Remove existing and provide new lighting in mechanical spaces.
 3. Perform necessary short circuit and arc flash studies. Furnish reports to owner.
 4. Replace light fixtures with high efficiency LED type where designated on the plans.
 5. Assist SDP Commissioning Authority with commissioning of Electrical Equipment.

4. **CONSIGNED EQUIPMENT**

- A. No equipment has been pre-purchased by the owner.
- B. All equipment, piping, instruments, accessories, and controls required to complete the work is to be furnished and installed by the contractor.

5. **COMMISSIONING**

- . The School District of Philadelphia will procure a Commissioning Authority (CA) for this project.
- A. All Contractors are responsible for coordination with the CA to fully execute commissioning activities.

6. **DRAWINGS**

- . Project Drawings: The drawings listed on Sheet G001 and the LIST OF DRAWINGS specification section are included as part of all Contracts. The Work relative to each Contract is indicated on each Sheet; however, the full scope of work cannot be fully and correctly interpreted without reference to all drawings.

7. **MODIFICATIONS**

- . Owner and Engineer of Record reserve the right to make changes in order and execution of Work of Contract as, in the judgement of the Owner or Engineer, may be necessary or expedient to carry out intent of design and Contract. No increase in unit prices over Contract rates will be paid to Contractor on account of such changes.

8. **PHYSICAL DATA**

- . Become fully informed concerning location of facilities, structures, and utilities which may interfere with Project. Contractor must prepare bid and enter into Contract with full understanding of conditions to be encountered and responsibilities in connection with that.

- A. From investigations and field surveys, location of utilities and equipment have been brought to attention of Engineer are indicated on Drawings, but locations of existing conditions are not guaranteed. Indication on Drawings of such items will not be assumed to relieve Contractor of any responsibility with respect to it nor will Owner or Engineer be held responsible for omission or failure to give notice to Contractor of any other utilities or equipment.

9. DAMAGE

. Any damage done by the Contractor to School Districts' Property or adjacent property and right-of-way will be restored immediately to the School District's satisfaction at the Contractor's expense.

10. CONSTRUCTION SEQUENCING

. Refer to Section 01 3000 TIME OF COMPLETION, MILESTONES, PHASING, OR SEQUENCEING.

A. The School District of Philadelphia intends for the facility to remain fully occupied during the 2021-2022 and 2022-2023 school years. Two classrooms and the auditorium will be designated by the school as "swing space" classrooms to facilitate construction activities of this project.

B. Refer to G102 for draft phasing plans.

D. The mechanical contractor is responsible to finalizing the Phasing Plan within thirty (30) days of Notice to Proceed.

1. It is the responsibility of the mechanical contractor to solicit information from the school regarding availability of specific classrooms as planned in the Mechanical Contractor's Phasing Plan (e.g. testing schedules).

E. It is the responsibility of all contractors to coordinate with the School District of Philadelphia and other contractors to execute work in accordance with the Mechanical Contractor's Phasing Plan.

F. Interruptions to building utilities (natural gas, domestic water) must be scheduled for times when the building is unoccupied and planned with the SDP Construction manager at least three (3) business days in advance.

2. PRODUCTS

NOT USED

3. EXECUTION

NOT USED

END OF SECTION 01 1000

SEAL:

ENGINEER OF RECORD AND MECHANICAL/PLUMBING/STRUCTURAL ENGINEER:

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1010 ADAMS AVENUE
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ADDENDUM #3
25 JANUARY 2022

NO	DATE	REVISION
3	FEB. 01, 2022	ADDENDUM #4
2	JAN. 25, 2022	ADDENDUM #3

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

DRAWING SCALE AS INDICATED	ENGINEER'S PROJECT # 4470	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.
ELO01
SHEET 65 OF 69

LIGHTING

(NOTE: CAPITAL LETTER @ SYMBOL DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES CONTROL DEVICE.)

	CEILING MOUNT 2x2 LIGHT FIXTURE
	CEILING MOUNT 2x4 LIGHT FIXTURE
	4' CEILING MOUNT LIGHT FIXTURE
	8' CEILING MOUNT LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	CEILING MOUNT LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	SPOT/FLOOD LIGHT FIXTURE
	WALL MOUNT LIGHT SPOT/FLOOD LIGHT FIXTURE
	LED LIGHT FIXTURE DEDICATED FOR UNSWITCHED
	EXIT SIGN FIXTURE (SINGLE FACE UNIVERSAL MOUNT INDICATED)
	EXIT SIGN FIXTURE W/DIRECTIONAL ARROWS (DOUBLE FACE UNIVERSAL MOUNT INDICATED)
	SWITCH, SINGLE POLE
	SWITCH, 3-WAY
	SWITCH, 4-WAY
	SWITCH, DIMMER
	DIRECTIONAL MOTION DETECTOR LIGHT CONTROL
	MULTI-DIRECTIONAL MOTION DETECTOR LIGHT CONTROL
	SPECIAL PURPOSE LIGHT SWITCH; DESCRIPTION OF SWITCH WILL BE AS NOTED ON DRAWINGS
	PHOTOELECTRIC CONTROL
	LIGHTING CONTACTOR: LC1 REPRESENTS LIGHTING CONTACTOR IDENTIFICATION LC1 REPRESENTS LIGHTING CONTACTOR TO BE CONTROLLED
	CEILING MOUNTED OCCUPANCY AND/OR VACANCY SENSOR, TYPE AS SPECIFIED OR AS INDICATED ON THE DWGS.
	"WALL BOX" STYLE OCCUPANCY/VACANCY SWITCH
	CEILING MOUNTED DAYLIGHT SENSOR, TYPE AS SPECIFIED OR AS INDICATED ON THE DWGS.
	DIGITAL TIME SWITCH WALL MOUNT

GENERAL POWER

	DENOTES MOUNTED 6" ABOVE COUNTER TOP
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE, NEMA 5-20R
	GROUND FAULT CIRCUIT BREAKER
	GROUND FAULT CIRCUIT INTERRUPTER
	ISOLATED GROUND
	SWITCHED
	TAMPER RESISTANT
	WEATHER RESISTANT RECEPTACLE W/IN-USE COVER (WET LOCATION)
	WEATHER RESISTANT RECEPTACLE W/NON-IN-USE COVER (DAMP LOCATION)
	DUPLEX RECEPTACLE, NEMA 5-20R
	RECEPTACLE FOR TV MONITOR
	DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE DEDICATED FOR UPS POWER
	SPECIAL PURPOSE RECEPTACLE (AMPACITY AS NOTED) A - 30A, 2 POLE + GROUND, 208VAC, 1-PHASE, NEMA 4X, IP66/IP67 B - 30A, 1 POLE + NEUTRAL + GROUND, 125VAC, NEMA 4X, IP66/IP67 C - 30A, 3 POLE + GROUND, 208VAC, 3-PHASE, NEMA 4X, IP66/IP67 D - 60A, 3 POLE + GROUND, 208VAC, 3-PHASE, NEMA 4X, IP66/IP67 E - 30A, 2 POLE + GROUND, 250VAC, 1-PHASE, TWISTLOCK F - 30A, 1 POLE + NEUTRAL + GROUND, 125VAC, TWISTLOCK
	DUPLEX RECEPTACLE FLOOR MOUNTED (AMPACITY AS NOTED)
	SPECIAL PURPOSE RECEPTACLE FLOOR MOUNTED (AMPACITY AS NOTED)
	SURFACE MOUNTED RACEWAY LETTER INDICATES TYPE (SEE E600) NUMBER INDICATES LENGTH
	JUNCTION BOX
	NON FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR STARTER
	COMBINATION MOTOR STARTER
	CONTACTOR
	TIME CLOCK SWITCH CONTROL
	TIME SWITCH
	MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOADS
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
	MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOADS WITH PILOT LIGHT
	PANELBOARD
	PUSHBUTTON STATION TYPE AS NOTED
	MUSHROOM SWITCH
	MOTOR (HORSEPOWER INDICATED ON PLANS)
	TRANSFORMER
	GENERATOR
	MOTOR OPERATED DAMPER
	THERMOSTAT
	UNINTERRUPTIBLE POWER SUPPLY
	SURGE PROTECTION DEVICE
	UNIT HEATER
	VARIABLE FREQUENCY DRIVE

COMMUNICATION

	CEILING SPEAKER
	WALL MOUNTED SPEAKER
	WALL MOUNTED DOUBLE SPEAKER
	POLE MOUNTED SPEAKER
	POLE MOUNTED DOUBLE SPEAKER
	DATA OUTLET
	TELEPHONE OUTLET
	PAY TELEPHONE OUTLET
	TELEPHONE / DATA OUTLET
	USB RECEPTACLE
	TELEPHONE TERMINAL CABINET
	DESKTOP HAND SET
	WALL MOUNTED HAND SET
	TV OUTLET

GENERAL NOTES

- 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.
- 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.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER DIVISIONS TRADES TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR SHALL COORDINATE LOCATION OF FIXTURES, DEVICES, ETC WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
- ARCHITECTURAL FEATURES SHOWN ON THESE DRAWINGS ARE FOR BACKGROUND INFORMATION ONLY. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ACTUAL BUILDING CONSTRUCTION WALLS AND CURBS. REFER TO EQUIPMENT DRAWINGS FOR ACTUAL LOCATION OF EQUIPMENT.
- EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON THE CERTIFIED MANUFACTURER'S DRAWINGS OF RESPECTIVE EQUIPMENT. CONDUITS SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
- WALL AND FLOOR PENETRATIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE FIRESTOP AS REQUIRED FOR ALL PENETRATIONS MADE FOR ELECTRICAL WORK.
- COORDINATE THE COLORS OF WIRING DEVICES AND FACEPLATES WITH THE ARCHITECT.
- EQUIPMENT AND DEVICES SHALL MATCH THE BUILDING STANDARD.

WIRING METHODS

- INDOORS
 - IN FINISHED AREAS ALL RACEWAY AND WIRING SHALL BE CONCEALED AND BOXES RECESSED. WIRING INSTALLED IN MASONRY WALLS SHALL BE EMT OR GALVANIZED RIGID STEEL. WIRING INSTALLED IN STUD WALL CAVITIES OR ABOVE HUNG CEILINGS MAY BE TYPE MC CABLE OR EMT.
 - IN UNFINISHED AREAS SUCH AS MECHANICAL AND ELECTRICAL ROOMS WIRING SHALL BE INSTALLED IN EMT.
 - WIRING IN THE CRAWLSPACE SHALL BE INSTALLED IN RIGID METAL CONDUIT.

LINES & REFERENCE SYMBOLS

	NEW WORK LINEWEIGHT
	DEMOLITION WORK LINEWEIGHT
	EXISTING WORK LINEWEIGHT
	FUTURE WORK LINEWEIGHT
	POINT OF CONNECTION
	TERMINATION POINT OF DEMOLITION
	POINT OF FUTURE CONNECTION
	SHEET NOTE REFERENCE
	REVISION REFERENCE
	EQUIPMENT TAG
	NORTH ARROW
	INDICATES PLAN/DETAIL NUMBER INDICATES PLAN/DETAIL TITLE SCALE: SCALE (AS REQUIRED)
	INDICATES PLAN/DETAIL NUMBER INDICATES DRAWING ON WHICH DRAWING SECTION APPEARS

CONDUIT FEEDERS & BRANCH CIRCUITS

	CONDUIT - EXPOSED
	CONDUIT TURNED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT CAPPED
	CIRCUIT HOME RUN
	CONDUIT FEEDER IDENTIFICATION (SEE FEEDER LEGEND ON DRAWING)
	3 #8, 1 #10 EGC - 3/4" C. CONDUIT FEEDER IDENTIFICATION

THIS DRAWING REPRESENTS A GANNETT FLEMING STANDARD. NOT ALL SYMBOLS MAY BE UTILIZED ON THE ASSOCIATED FLOOR PLANS.

SEAL:

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ELECTRICAL LIGHTING ENGINEER:

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ADDENDUM #3
25 JANUARY 2022

NO.	DATE	REVISION
3	FEB. 01, 2022	ADDENDUM #4
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 DEMOLITION PLAN

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.
EL101
SHEET 66 OF 69

GENERAL DEMOLITION NOTES

- ELECTRICAL CONTRACTOR SHALL VERIFY DESIGNATION AND CIRCUIT NUMBER FOR EACH DEVICE TO BE REMOVED.
- ALL SYMBOLS SHOWN LIGHTLY SOLID ARE EXISTING ELECTRICAL DEVICES/EQUIPMENT TO REMAIN.
- ALL WIRING/CONDUIT LEFT UNUSED SHALL BE REMOVED TO ITS POINT OF ORIGIN AND CIRCUIT BREAKER TO BECOME SPARE.
- PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE PANEL SCHEDULES REVISED.
- 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.
- VERIFY ALL EXISTING CONDITIONS AT JOB SITE.

DEMO SHEET KEYNOTES

- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES. DISCONNECT AND REMOVE EXISTING LOCAL LIGHTING CONTROLS. PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.
- DISCONNECT AND REMOVE EXISTING EXIT SIGNS. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH EXIT SIGNS. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.
- DISCONNECT, REMOVE AND STORE FOR REUSE EXISTING SMOKE DETECTORS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
- DISCONNECT, REMOVE AND STORE FOR REUSE EXISTING RECESSED SPEAKERS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
- DISCONNECT, REMOVE AND STORE FOR REUSE EXISTING SECURITY CAMERA AT VESTIBULE 100A. MAINTAIN EXISTING ASSOCIATED CIRCUIT/WIRING.



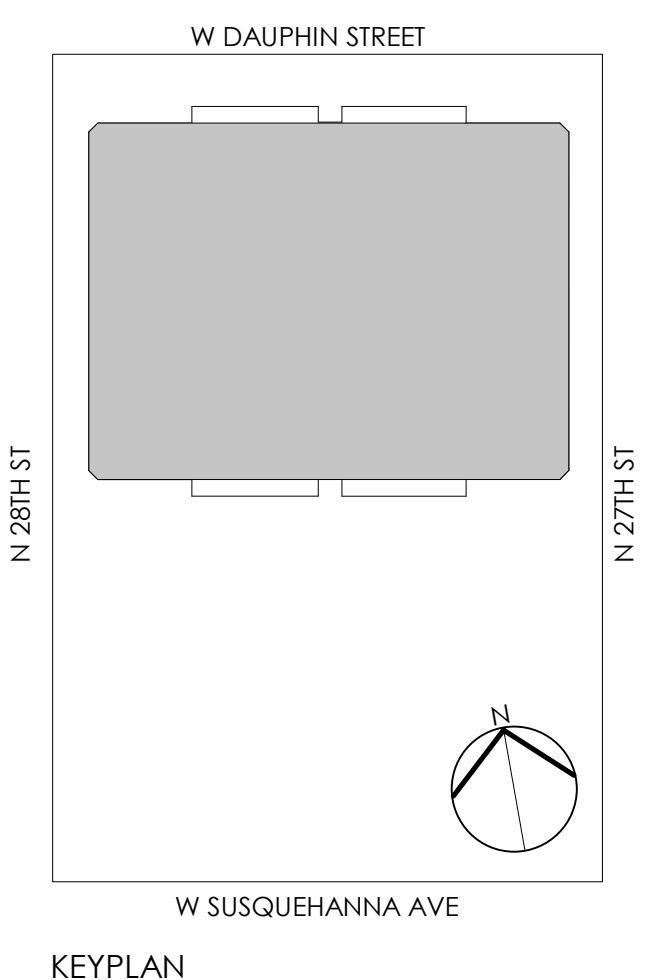
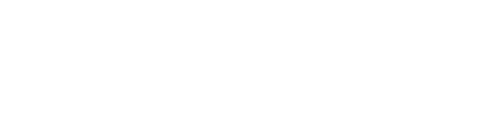
REFER TO DRAWING EL102 FOR ADDITIONAL WORK IN THIS AREA

REFER TO DRAWING EL102 FOR ADDITIONAL WORK IN THIS AREA

REFER TO ED401 FOR ADDITIONAL WORK IN THIS AREA

1 ELECTRICAL LIGHTING DEMOLITION FIRST FLOOR

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



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Project Number: 068625.009
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NO.	DATE	REVISION

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

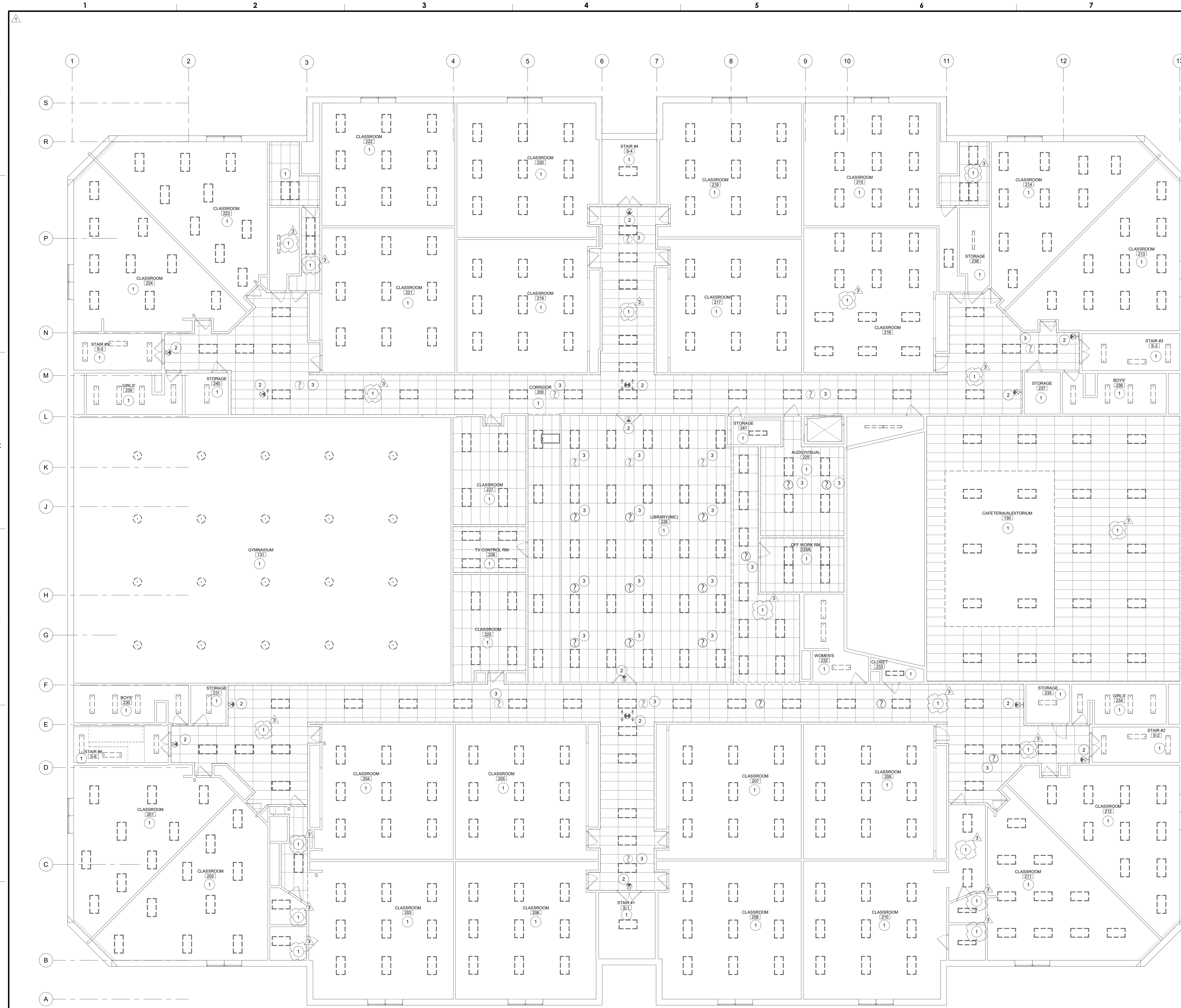
DRAWING NO.
EL102
SHEET 67 OF 69

GENERAL DEMOLITION NOTES

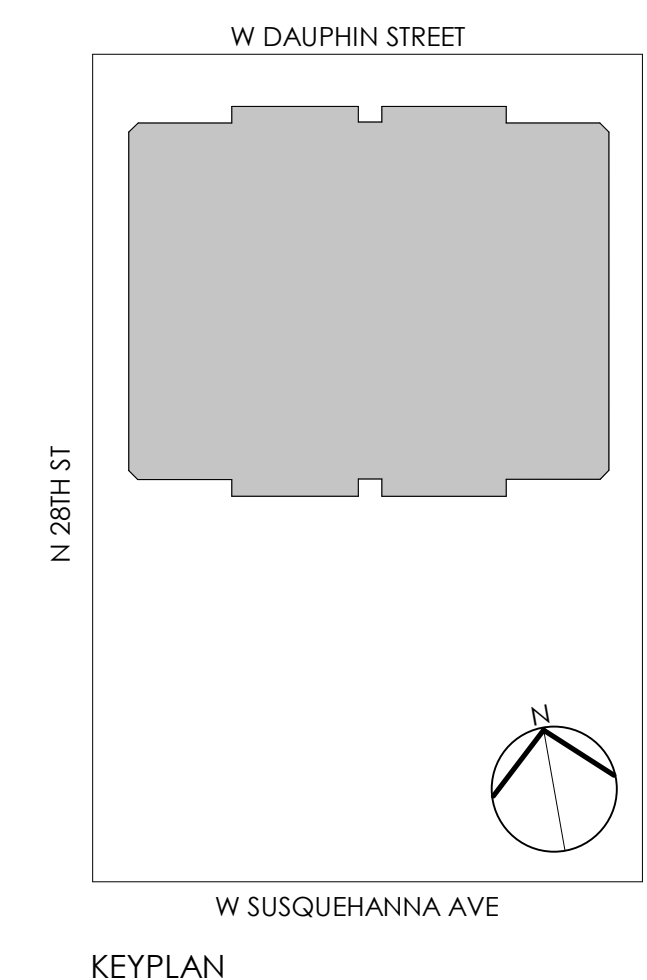
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- PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE PANEL SCHEDULES REVISED.
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- VERIFY ALL EXISTING CONDITIONS AT JOB SITE.

DEMO SHEET KEYNOTES

- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH LIGHTING FIXTURES. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES. DISCONNECT AND REMOVE EXISTING LOCAL LIGHTING CONTROLS. PROVIDE NEW LIGHTING CONTROL AS INDICATED ON THE NEW WORK DRAWING.
- DISCONNECT AND REMOVE EXISTING EXIT SIGNS. MAINTAIN EXISTING CIRCUITS/WIRING ASSOCIATED WITH EXIT SIGNS. FIELD VERIFY QUANTITY AND LOCATION OF ALL EXISTING FIXTURES.
- DISCONNECT, REMOVE AND STORE FOR REUSE EXISTING SMOKE DETECTORS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
- DISCONNECT, REMOVE AND STORE FOR REUSE EXISTING RECESSED SPEAKERS. MAINTAIN EXISTING ASSOCIATED CIRCUITS/WIRING. FIELD VERIFY QUANTITY AND LOCATIONS.
- DISCONNECT, REMOVE AND STORE FOR REUSE EXISTING SECURITY CAMERA AT VESTIBULE 100A. MAINTAIN EXISTING ASSOCIATED CIRCUIT/WIRING.



1 ELECTRICAL LIGHTING DEMOLITION SECOND FLOOR



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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.
- PROVIDE WIRE GUARDS FOR ALL DEVICES INSTALLED IN GYMNASIUM.

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 PROVAL MODEL # DDC5-100V, 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-L1Z, OR APPROVED EQUAL.
- PROVIDE NEW LOW-VOLTAGE PASSIVE INFRARED (PIR) OCCUPANCY SENSORS, LEVITON MODEL #OSC15-10V 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 SENSORS(S) AND LOW VOLTAGE ON/OFF/DIM CONTROL SWITCHES, 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 VOLTAGE ON/OFF CONTROL SWITCHES. REFER TO SPECIFICATIONS, SECTION 26 09 23.
- FOR ON/OFF/DIM CONTROL OF LIGHTS AT UPPER LEVEL, SEE DRAWING E104.

**ADDENDUM #3
25 JANUARY 2022**

NO.	DATE	REVISION
3	FEB. 01, 2022	ADDENDUM #4
1	JAN. 18, 2022	ADDENDUM #2
NO.	DATE	REVISION

SCHOOL & LOCATION
RICHARD R. WRIGHT ELEMENTARY SCHOOL

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

PROJECT TITLE

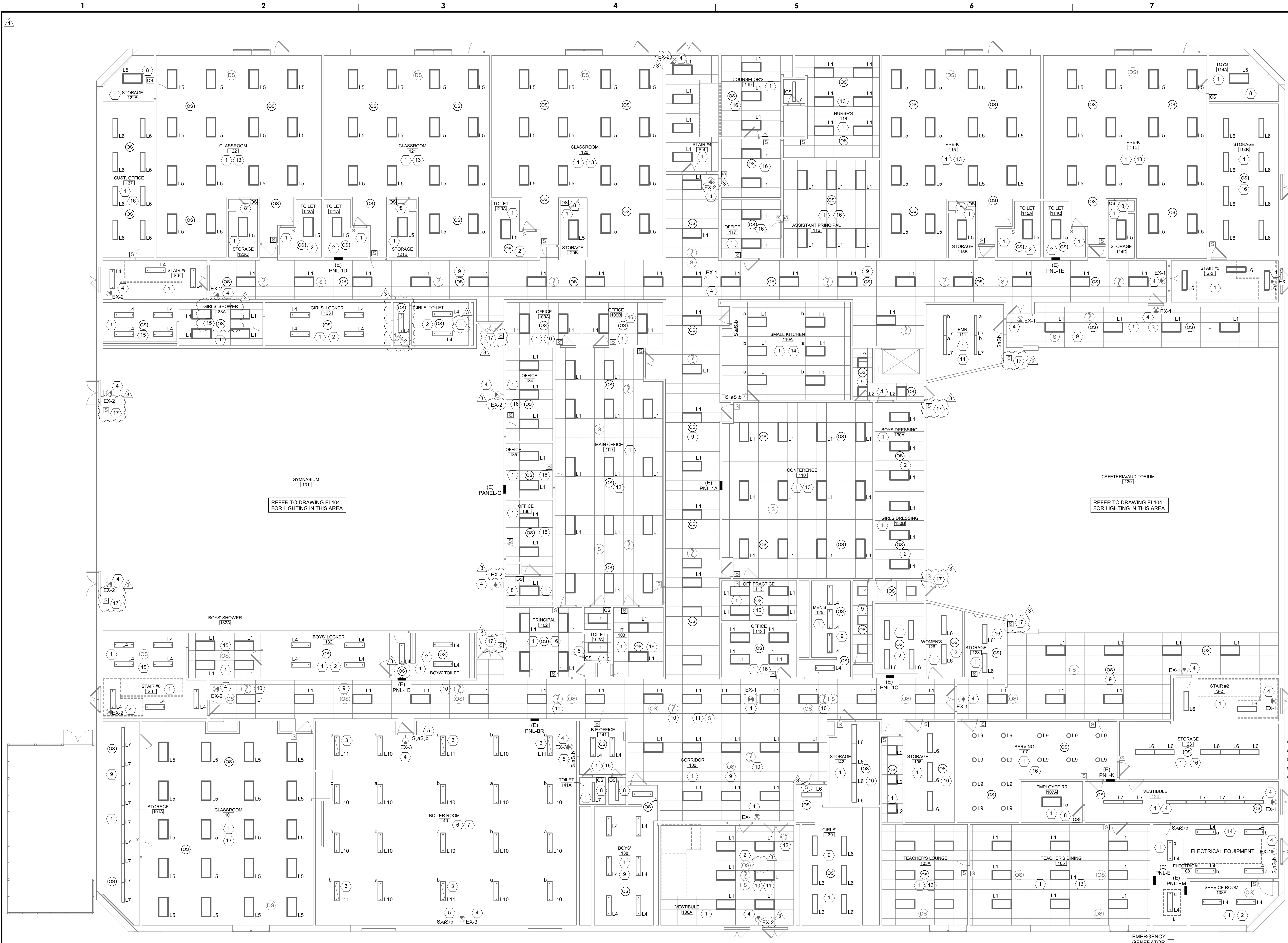
MAJOR HVAC RENOVATION

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

DATE: 01/20/2022
PROJECT NO.: 068625.009

DRAWING NO.
EL103
SHEET 68 OF 69



1 ELECTRICAL LIGHTING NEW WORK FIRST FLOOR

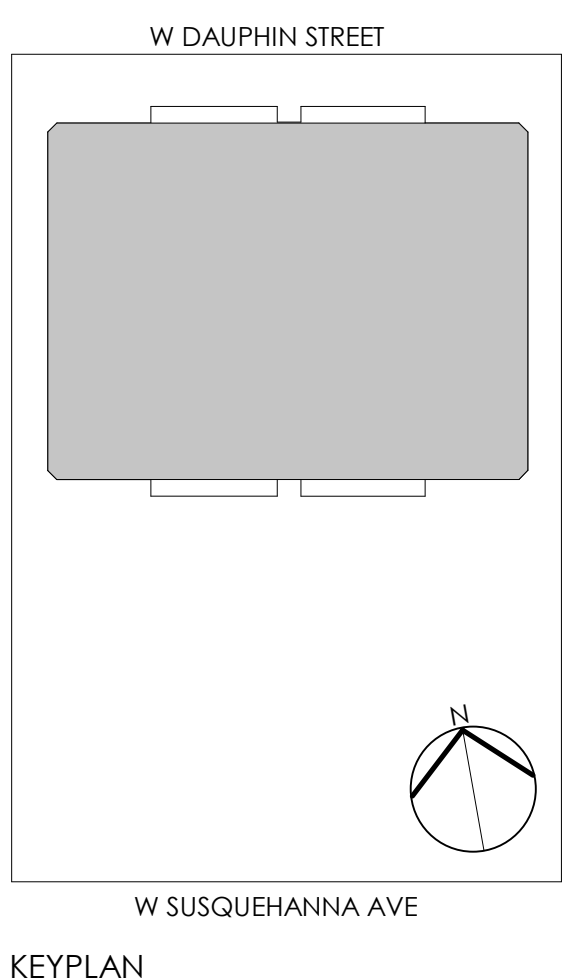
SCALE: 1/8" = 1'-0"



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
EX-1	EDGC 1 RW CH3 EL	LITHONIA	EDGC 1 RW CH3 EL	1	LED	5	120	CEILING SUSPENDED
EX-2	EDGC 1 RW CH3 EL	LITHONIA	EDGC 1 RW CH3 EL	1	LED	5	120	WALL MOUNTED
EX-3	WLTE EXIT SIGN WET LOCATIONS	LITHONIA	WLTE W 1 R EL 0	1	LED	5	120	WALL MOUNTED
L1	2x4 LED RECESSED TROFFER - GTL SERIES	LITHONIA	26TL 4 48L GZ10 LP840	1	LED	36	120	CEILING RECESSED
L2	2x2 LED RECESSED TROFFER - GTL SERIES	LITHONIA	26TL 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 4000L MVOLT 40K	1	LED	35	120	SURFACE MOUNTED
L8	LED DAMP RATED HIGH BAY	LITHONIA	JCBL 12000LM ACFR ACRFUL MVOLT GZ10 40K 80CRI PM FWG	1	LED	81	120	SUSPENDED
L9	DOWNLIGHT (NEW CONSTRUCTION)	LITHONIA	LBR AL02 51WV1 AR LSS MVD MVOLT UGZ 90CRI	1	LED	24	120	CEILING RECESSED
L10	FEM LED LOW PROFILE	LITHONIA	FEM L48 4000LM IMAFW WVD MVOLT GZ10 40K 80CRI	1	LED	24	120	SUSPENDED
L11	FEM LED LOW PROFILE/EMERGENCY CIRCUIT	LITHONIA	FEM L48 4000LM IMAFW WVD MVOLT GZ10 40K 80CRI	1	LED	24	120	SUSPENDED



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SEAL:

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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.
- PROVIDE WIRE GUARDS FOR ALL DEVICES INSTALLED IN GYMNASIUM.

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. 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 #DVOS-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) #OSP20-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.
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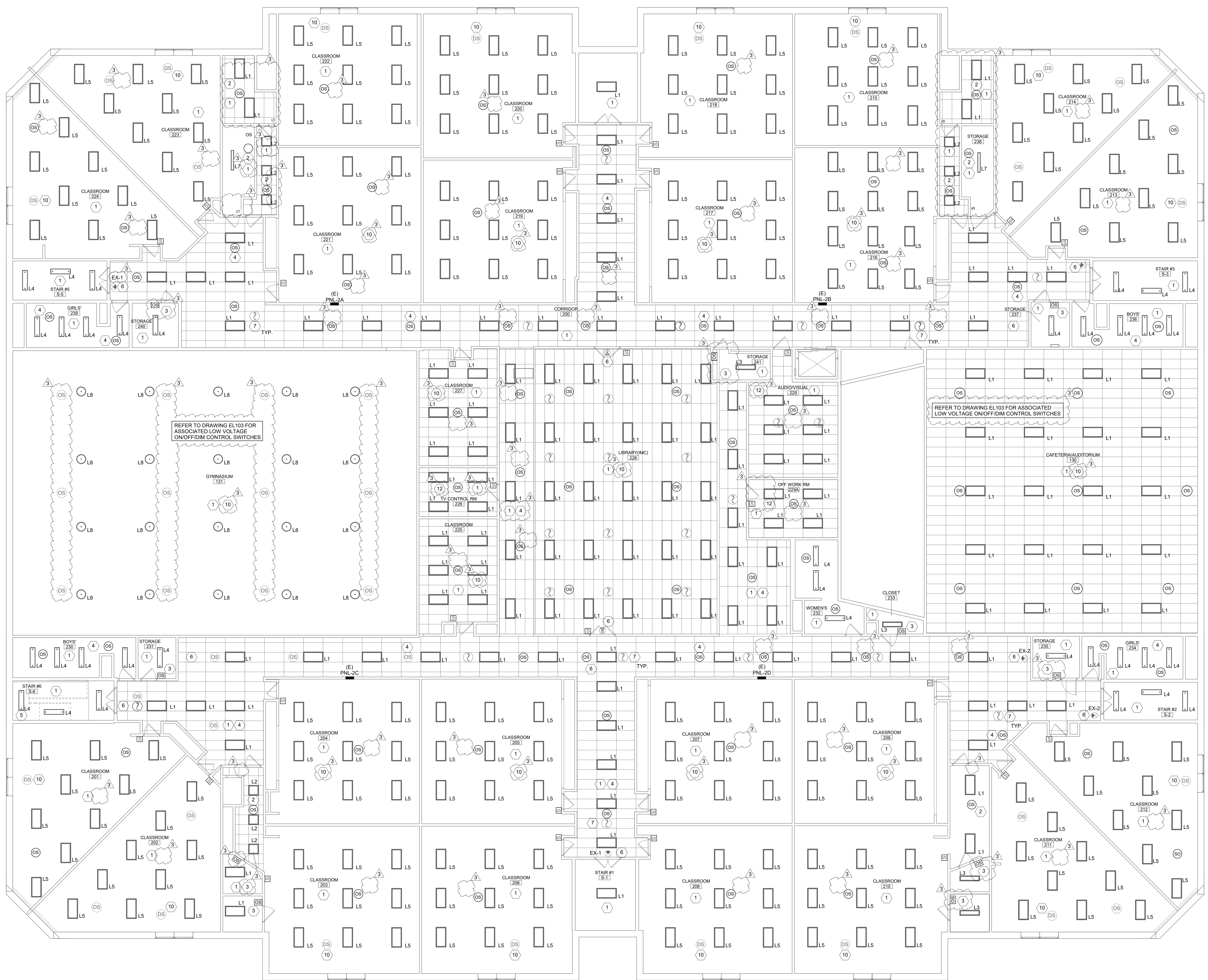
2201-S1 N. 28TH ST, PHILADELPHIA, PA 19132

PROJECT TITLE
MAJOR HVAC RENOVATION

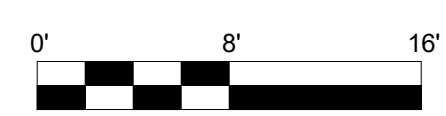
DRAWING NAME
ELECTRICAL LIGHTING
SECOND FLOOR NEW WORK

DRAWING SCALE AS INDICATED	
LOCATION NO. 4470	ENGINEER'S PROJECT # 068625.009
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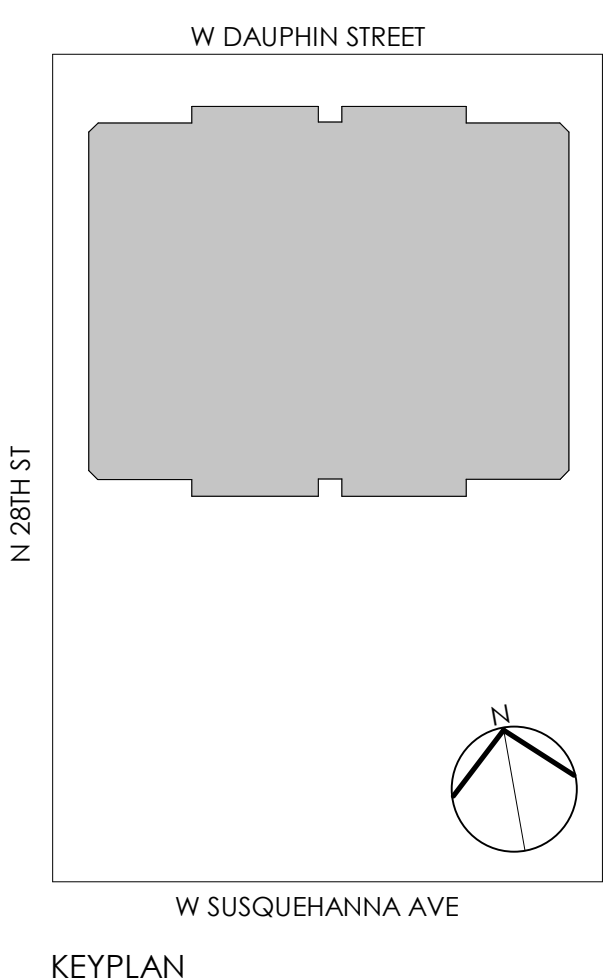
DRAWING NO.
EL104
SHEET 69 OF 69



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



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



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