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

TELEPHONE: (215) 400-4730

ADDENDUM No. 02

Subject: Northeast High School – AC Upgrade Project
SDP Contract No. B-006c & 007c 2020/21

Location: Northeast High School
1601 Cottman Avenue
Philadelphia PA 19111

This ADDENDUM dated May 25, 2021 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.

Questions

Question #1:

Drawing E101, sheet note #1 indicates to connect to a 20/2 CB in new panel P2. Is this the correct panelboard since the ground floor units are shown to connect to panel P1 on drawing E502? If P1 is the correct panelboard, ACU units 033 & 034 are shown with 30/2 CB's Which is correct?

Response: Note #1 on Drawing E101 will be revised to indicate "Panel P1" instead of Panel 2. For Units 033 & 034, the correct CB is 30/2. Panel schedule is correct.

Question #2:

Drawing E101, ACU 035 is shown but not indicated on M501. Is this unit being replaced? PTAC units 035 & 035B are shown on M502 but not on drawing E101 or E502. Are these units being installed?

Response: Drawings E101 & E502 will be updated to show units PTAC-035 & 035B as shown on M101.

Question #3:

Drawing E101, sheet notes 2 & 3 reference panel P2 when E502 indicates P1. Which is correct?

Response: Panel P1 is the correct panel.

Question #4:

Drawing E101, ACU units 18B & 18C indicate sheet note 4. Is this correct or should it be sheet note 5?

Response: Note #5 is correct.

Question #5:

Drawing E101, ODU-009A does not a note next to it? Is this being replaced?

Response: ODU-009A does have a note #5 next to it. Refer to E101 (Boiler RM C-7). The

designation inside room 9A should be "IDU-009A".

Question #6:

Drawing E102, sheet note #4 references panel P1. Is this correct or should it panel P2?

Response: Panel P2 is the correct panel.

Question #7:

Drawing E102, are ODU-101E, ODU-101F and ODU-101H being provided? They are not shown on E102 or E502 but are shown in the schedule on M502 as IDU units.

Response: Units referenced above will be provided and are shown on both E102 and M502.

Question #8:

Drawing E102, ODU 101D is not shown on this drawing or E502 but is shown on M502. Is this unit being provided?

Response: ODU-101D will be added to E102 and Panel P2 on E502.

Question #9:

Drawing E102, ODU 145A is not shown on this drawing or E502 and is only shown as an IDU on M502. Is this unit being provided?

Response: ODU-145 is shown on both E102 and M502. ODU-145 on roof will feed units IDU-145 A&C.

Question #10:

Drawing E102, UV-133-1 & UV-133-2 are not shown on this drawing but are indicated on M502. Are they being installed?

Response: Yes, these units will be installed and will be added to E102 and Panel P2 on E502.

Question #11:

Drawing E502, panelboard schedule P1 does not have circuits for units shown to be new on M501 & M502, ODU14A, ACU017C, ACU018D & ACU019A. Do these units need new circuits? If so what size?

Response: Yes, they will need new circuits. ODU-014A (30/2), ACU-017C (30/2), ACU-018D & 019A (20/2). Will be added to P1 on E502.

Question #12:

Drawing E502, panel schedule P2 indicates new AHU. Is this RTU-131? If so, is the circuit breaker sized correctly?

Response: Correct, RTU-131 circuit will be revised accordingly.

Question #13:

Drawing E502, ACU 229B is indicated as ACU229A on M501. Which is correct?

Response: The correct designation is ACU-229B.

Question #14:

Will the school district allow usage of the adult restrooms or will temporary units need to be provided? If so, where would they be installed?

Response: Electrical Contractor, as the Lead Prime, is required to provide temporary toilet facilities in accordance with Supplementary Conditions, SC-9 SANITARY PROVISIONS, locations

to be approved in the field.

Question #15:

Can an abatement survey be provided?

Response: See attached Technical Specification for Asbestos Abatement, prepared by SNERTECH, INCORPORATED, dated may 25, 2021 and related documents.

Question #16:

Can a painting specification and scope of work of indoor versus exterior per Prime be provided?

Response: See attached Specification 09 9000 Painting and Coating.

Question #17:

Can the rated walls be identified on the project?

Response: Corridor walls and stair shafts shall be considered fire-rated.

Question #18:

If multiple shifts are required to meet the substantial completion date, will the building be available?

Response: The building will be made available to support multiple shifts. SDP will keep the building open as needed if requested by the contractor.

Question #19:

Will existing studies of the switchgear be provided to aid in the coordination, arc flash & short circuit studies for the new panels?

Response: Arc flash studies not required under this Contract; arc flash warning labels to be provided.

Question #20:

Summary of work 1.15 “Perform necessary short circuit & arc flash studies”, are we required to do the entire building as the specifications show? Can you provide more information on number of sub-stations, panels, etc.?

Response: Delete Summary of Work item 1.15. No electrical studies are required under this Contract.

Question #21:

Summary of work states electrical contractor is responsible for all environmental remediation. Can you supply a report on what the remediation that is required? Lead Paint Stabilization? Floor tiles? Spec’s state this will be shown in an addendum.

Response: See attached Technical Specification for Asbestos Abatement, etc. and Summary Reports for Asbestos in Paint and Lead Based Paint for scope of environmental remediation.

EC must engage a licensed and qualified Asbestos Abatement Contractor (AAC) for asbestos abatement including drilling holes in floors, walls and ceilings to attach or pass through conduit or feeders in the spaces identified as containing asbestos in paint or removing asbestos containing floor tiles.

Lead Based Paint Stabilization may be performed by the prime contractor in accordance with PART 4- RENOVATION, REPAIR AND PAINTING- US EPA LEAD BASED PAINT RULE of Section 01 1100 ENVIRONMENTAL COORDINATION.

Also attached is an Asbestos Inspection Report required by the City of Philadelphia for a permit.

Question #22:

All Drawings – I assume where drawing notes call for Nema 6-15P, Nema 6-20P and Nema 6-30P an "R" (receptacle) is required and not a "P" (plug) for each air conditioner?

Response: Correct, the correct designations are, NEMA 6-15R, NEMA 6-20R and NEMA 6-30R.

Question #23:

Can the location(s) for the chases that will allow the 4" feeder conduit be shown on the drawings?

Response: The Contractor shall verify the best routing for new feeder conduits in the field and coordinate same with the Owner prior to commencing installation. For bidding purposes, assume that a separate core drill is required for each feeder conduit at each floor penetration, and that floor penetrations are to be located in Storage 157 / Storage 235A, adjacent to the Auditorium. Should the Contractor locate existing chase(s) where conduits may be installed, without interference or impeding access to other building utilities/equipment, the use of existing chases may be permitted by Owner. Conduits shall NOT be installed in stair towers, however.

Question #24:

Can the height of the existing electrical rooms be confirmed?

Response: The height of the electrical rooms is not available at this time. Contractor shall verify height in field.

Drawings:

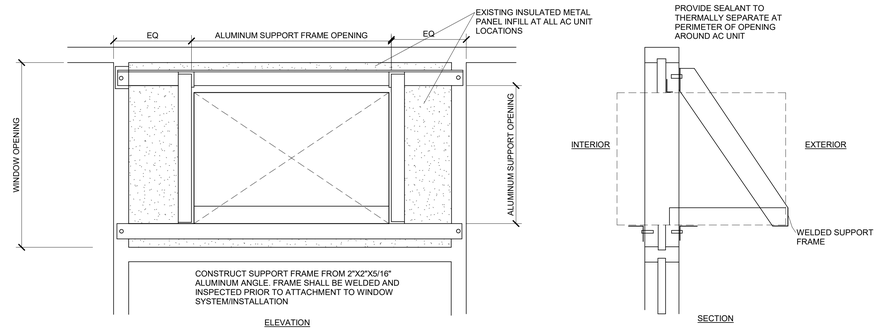
- M501, E101, E102, and E502 have been updated for clarity of scope. See attached drawings.

Specifications

- ADD specification section 09 9000 Painting and Coating
- ADD Specification for Asbestos Abatement
- ADD Asbestos Inspection Report

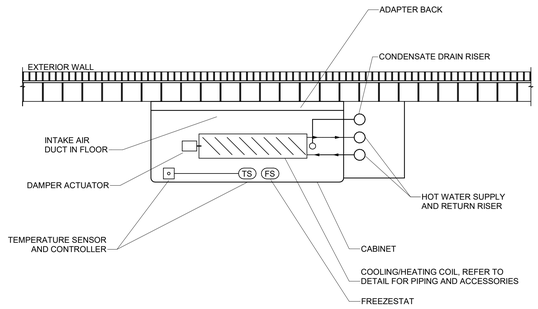
GENERAL NOTES

1. INTERIOR SUPPORT ANGLES TO BE 2"X2"X5/16" ALUMINUM ANGLE FASTENED TO WINDOW FRAMING.
2. WINDOW UNIT TO BE SUPPORTED BY ALUMINUM FRAMING AND INTERIOR ANGLE AND NOT RESTING ON METAL PANEL INFILL MATERIAL.
3. FLASHING SHALL BE 18 GAUGE AND SCREWED THROUGH METAL PANEL INFILL. SEALANT SHALL BE SILICON.
4. ALL FASTENERS SHALL BE STAINLESS STEEL.
5. PAINT ALUMINUM FRAMING AND INTERIOR ANGLE TO MATCH EXISTING FINISHES



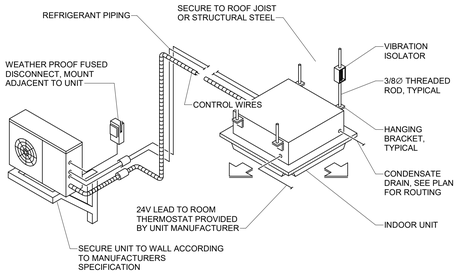
1 EXTERIOR AIR CONDITIONING WALL UNIT - INSTALLATION DETAIL

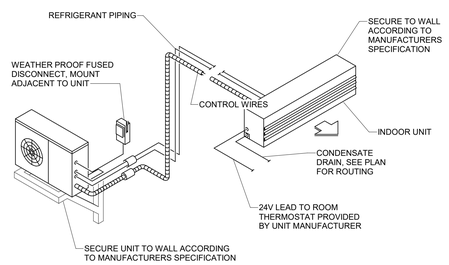
SCALE: NTS



2 UNIT VENTILATOR

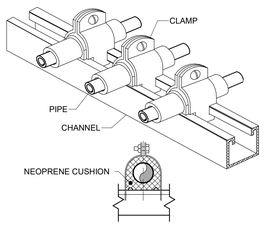
SCALE: NTS





3 DUCTLESS SPLIT SYSTEM WALL MOUNTED INSTALL DETAIL

SCALE: NTS



NOTES:

1. USE GRINNELL PS SERIES POWER-STRUT CHANNEL WITH PS1400 PIPE AND CONDUIT CLAMPS OR EQUIVALENT. CLAMPS TO HAVE CAPTIVE MACHINE SCREW/NYLON LOCKNUT AND A THERMOPLASTIC RUBBER INSERT.
2. REFRIGERANT PIPING TO BE SECURED AS NECESSARY TO PREVENT MOVEMENT, VIBRATION, AND NOISE. MAXIMUM DISTANCE BETWEEN ANCHORAGE POINTS = 4'-0"
3. USE GRINNELL SERIES PS 684 BEAM CLAMPS OR EQUIVALENT TO ATTACH CHANNELS TO ROOF/FLOOR SUPPORT BEAMS.
4. USE EXPANSION TYPE FASTENERS APPROVED FOR USE IN BASE MATERIAL FOR ATTACHING CHANNELS TO INTERIOR WALLS.

4 REFRIGERANT AND CONDENSATE PIPING SUPPORT DETAIL

SCALE: NTS

INSULATION THICKNESS SCHEDULE

FLUID OPERATING TEMPERATURE RANGE AND USAGE (F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY (BTU-IN/(H-FT^2-F))	MEAN RATING TEMP. (F)	< 1	1 TO < 1.5	1.5 TO < 4	4 TO < 8	≥ 8
COOLING SYSTEMS (CHILLED WATER, REFRIGERANT, AIR CONDITIONING CONDENSATE)							
40 - 60	0.21 - 0.27	75	0.5	0.5	1	1	1
< 40	0.20 - 0.26	50	0.5	1	1	1	1.5

AIR CONDITIONING UNIT SCHEDULE

MARK	SUPPLY AIRFLOW (CFM)	COOLING CAPACITY (MBH)	ELECTRICAL DATA V	Ø	HZ	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
ACU-002	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-003	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-004	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-005	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-006	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-007	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-008	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-009	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-010	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-011	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-012-1	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-012-2	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-013-1	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-013-2	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-014	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-015-1	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-015-2	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-016A	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-016B	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-017A	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-017B	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-017C	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-018D	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-019A	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-019B	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-023	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-024	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-025	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-033	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-034	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-056	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-057	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-100A	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-100B	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-101-1	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-101-2	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-101A	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-101J	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-101K	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-101L	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-101M	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-102	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-104	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-105B	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-106	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-108	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-109	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-110	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-111	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-112	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-113	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-114	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-115	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-116	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-117	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-118	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-119	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-120A	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-121	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-122	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-123	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-124	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-125	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-126	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-127	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-129	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-130-1	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-130-2	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-131J	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
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ACU-132-2	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
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ACU-136-1	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-136-2	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-137	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-138	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-139	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-140-1	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-140-2	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
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ACU-143	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-145	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-145B	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-145D	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-150	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
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ACU-154	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-156	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-158	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-160	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-162	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-200	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-201	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-202	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-203	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-203A	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-204	330	15.7	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-205	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-206	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-207-1	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-207-2	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-208	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-209-1	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-209-2	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
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ACU-214	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-216	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-217	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-218	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219A	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219B	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219C	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
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ACU-221A	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-221B	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-222	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-223A	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-223C	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-225	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-227A	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-227B	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-228	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
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ACU-229C	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-231	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-232	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-233	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-234	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-235	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-236	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-238	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-240	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-241	300	12	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-242	640	28	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-244	725	35	230	1	60	212	FRIEDRICH	KCL36A30A	1

REMARKS

1. PROVIDE WITH 3' CORDED PLUG AND INTEGRAL THERMOSTAT.

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015
(215) 400 - 4730 | (215) 400 - 4731 (fax)
www.philasd.org

SEAL:

BRIAN M. WEISSER
PA PE083639

ENGINEER OF RECORD:

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

ISSUED FOR BID
05/20/2021

NO	DATE	REVISION
1	5/20/2021	ADDENDUM 2

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE

AIR CONDITIONING UPGRADE

DRAWING TITLE

MECHANICAL SCHEDULES AND DETAILS

DRAWING SCALE	AS NOTED
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

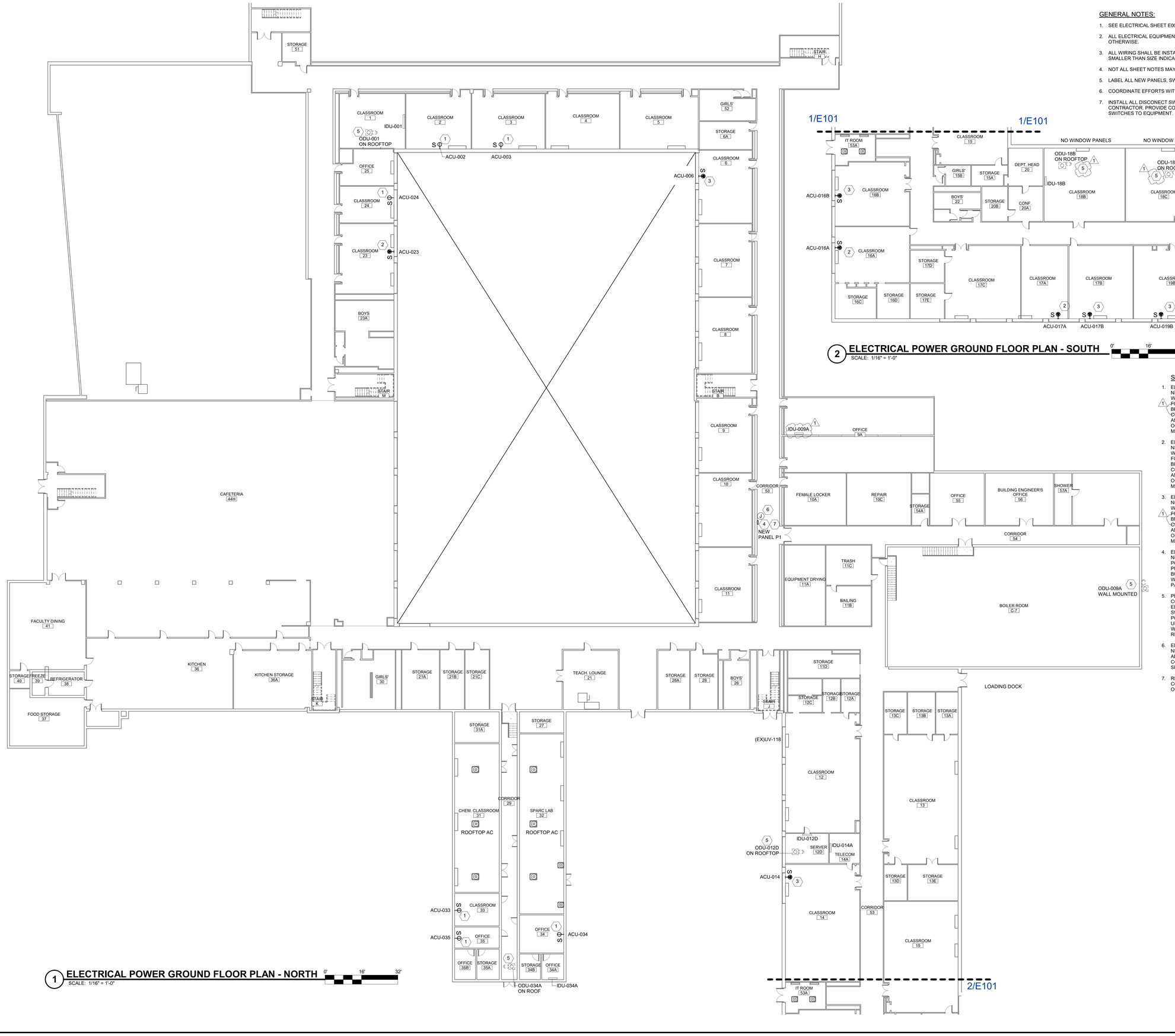
MC - B-006 C OF 2020/21
EC - B-007 C OF 2020/21

DRAWING NO.

M501

SHEET 9 OF 18

Project Number: 068625.001
5/20/2021 1:33:02 PM



2 ELECTRICAL POWER GROUND FLOOR PLAN - SOUTH

SCALE: 1/16" = 1'-0"

0' 16' 32'

1 ELECTRICAL POWER GROUND FLOOR PLAN - NORTH

SCALE: 1/16" = 1'-0"

0' 16' 32'

GENERAL NOTES:

1. SEE ELECTRICAL SHEET E001 FOR GENERAL NOTES AND WIRING METHODS.
2. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING IS NEW UNLESS NOTED OTHERWISE.
3. ALL WIRING SHALL BE INSTALLED IN CONDUIT OF REQUIRED SIZE BUT NO SMALLER THAN SIZE INDICATED.
4. NOT ALL SHEET NOTES MAY BE USED ON THIS SHEET.
5. LABEL ALL NEW PANELS, SWITCHES AND RECEPTACLES.
6. COORDINATE EFFORTS WITH SDP-PROCURED COMMISSIONING AGENT.
7. INSTALL ALL DISCONECT SWITCHES FURNISHED BY MECHANICAL CONTRACTOR. PROVIDE CONDUIT AND WIRING THROUGH DISCONNECT SWITCHES TO EQUIPMENT.

SHEET NOTES: (#)

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SINGLE SURFACE MOUNTED NEMA 6-15P WALL OUTLET WITHIN 12" MAX OF EXISTING WINDOW PANEL DESIGNATED FOR NEW AC UNIT. CONNECT TO A 20A, 2P CIRCUIT BREAKER IN NEW PANEL P1, LOCATED IN CORRIDOR 53. CONNECT WITH (2) #10, (1) #10GRD IN 3/4" CONDUIT. FURNISH AND INSTALL A 30A, 2-POLE, 250 VAC SNAP SWITCH FOR ON/OFF CONTROL OF AC UNIT. WIRE THROUGH SWITCH AND MAKE FINAL CONNECTION TO AC UNIT OUTLET.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SINGLE SURFACE MOUNTED NEMA 6-20P WALL OUTLET WITHIN 12" MAX OF EXISTING WINDOW PANEL DESIGNATED FOR NEW AC UNIT. CONNECT TO A 20A, 2P CIRCUIT BREAKER IN NEW PANEL P1, LOCATED IN CORRIDOR 53. CONNECT WITH (2) #10, (1) #10GRD IN 3/4" CONDUIT. FURNISH AND INSTALL A 30A, 2-POLE, 250 VAC SNAP SWITCH FOR ON/OFF CONTROL OF AC UNIT. WIRE THROUGH SWITCH AND MAKE FINAL CONNECTION TO AC UNIT OUTLET.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SINGLE SURFACE MOUNTED NEMA 6-30P WALL OUTLET WITHIN 12" MAX OF EXISTING WINDOW PANEL DESIGNATED FOR NEW AC UNIT. CONNECT TO A 30A, 2P CIRCUIT BREAKER IN NEW PANEL P1, LOCATED IN CORRIDOR 53. CONNECT WITH (2) #8, (1) #8GRD IN 3/4" CONDUIT. FURNISH AND INSTALL A 30A, 2-POLE, 250 VAC SNAP SWITCH FOR ON/OFF CONTROL OF AC UNIT. WIRE THROUGH SWITCH AND MAKE FINAL CONNECTION TO AC UNIT OUTLET.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW 400A, 208/120V, 3PH, 54P PANELBOARD TO PROVIDE POWER TO AC UNITS. INSTALL NEW PANEL IN THE SPACE PREVIOUSLY OCCUPIED BY LOCKERS G11/20-23. REFER TO BUILD OUT DETAIL ON E502. COORDINATE EXACT LOCATION WITH SDP PROJECT MANAGER PRIOR TO INSTALLATION OF PANEL.
5. PROVIDE 30/2 CIRCUIT BREAKER FROM NEW PANEL P1. CONNECT WITH 2#10, (1) #10GRD IN 3/4" CONDUIT. ELECTRICAL CONTRACTOR SHALL INSTALL DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE POWER AND CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND ITS ASSOCIATED INDOOR UNIT(S) IN ACCORDANCE WITH THE SPLIT SYSTEM MANUFACTURER'S REQUIREMENTS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW 12"x6" SURFACE MOUNTED J-BOX. INSTALL J-BOX ABOVE NEW PANEL. PROVIDE AND CONNECT A 2" EMPTY CONDUIT FROM THE TOP OF NEW PANEL INSIDE WALL SPACE TO THE NEW J-BOX.
7. REMOVE FLOOR TILES AS NECESSARY TO PENETRATE CORRIDOR FLOOR FROM LEVEL BELOW TO THE FRONT SIDE OF NEW PANEL.

KEY PLAN

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ISSUED FOR BID
05/20/2021

NO	DATE	REVISION
1	5/20/2021	ADDENDUM 2

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
ELECTRICAL POWER GROUND FLOOR

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY FJR	CHECKED BY BAM

MC - B-006 C OF 2020/21
EC - B-007 C OF 2020/21

DRAWING NO.
E101
SHEET 12 OF 18

Local File: BIM 360://063694 - School District of Philadelphia (R2020)/063694_SDP_NEHS_IDIQ_MEP_CENTRAL_R20_BIM360.rvt
Project Number: 068625.001
5/20/2021 1:32:42 PM

GENERAL NOTES:

1. SEE ELECTRICAL SHEET E001 FOR GENERAL NOTES AND WIRING METHODS.
2. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING IS NEW UNLESS NOTED OTHERWISE.
3. ALL WIRING SHALL BE INSTALLED IN CONDUIT OF REQUIRED SIZE BUT NO SMALLER THAN SIZE INDICATED.
4. NOT ALL SHEET NOTES MAY BE USED ON THIS SHEET.
5. LABEL ALL NEW PANELS, SWITCHES AND RECEPTACLES.
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SHEET NOTES: (#)

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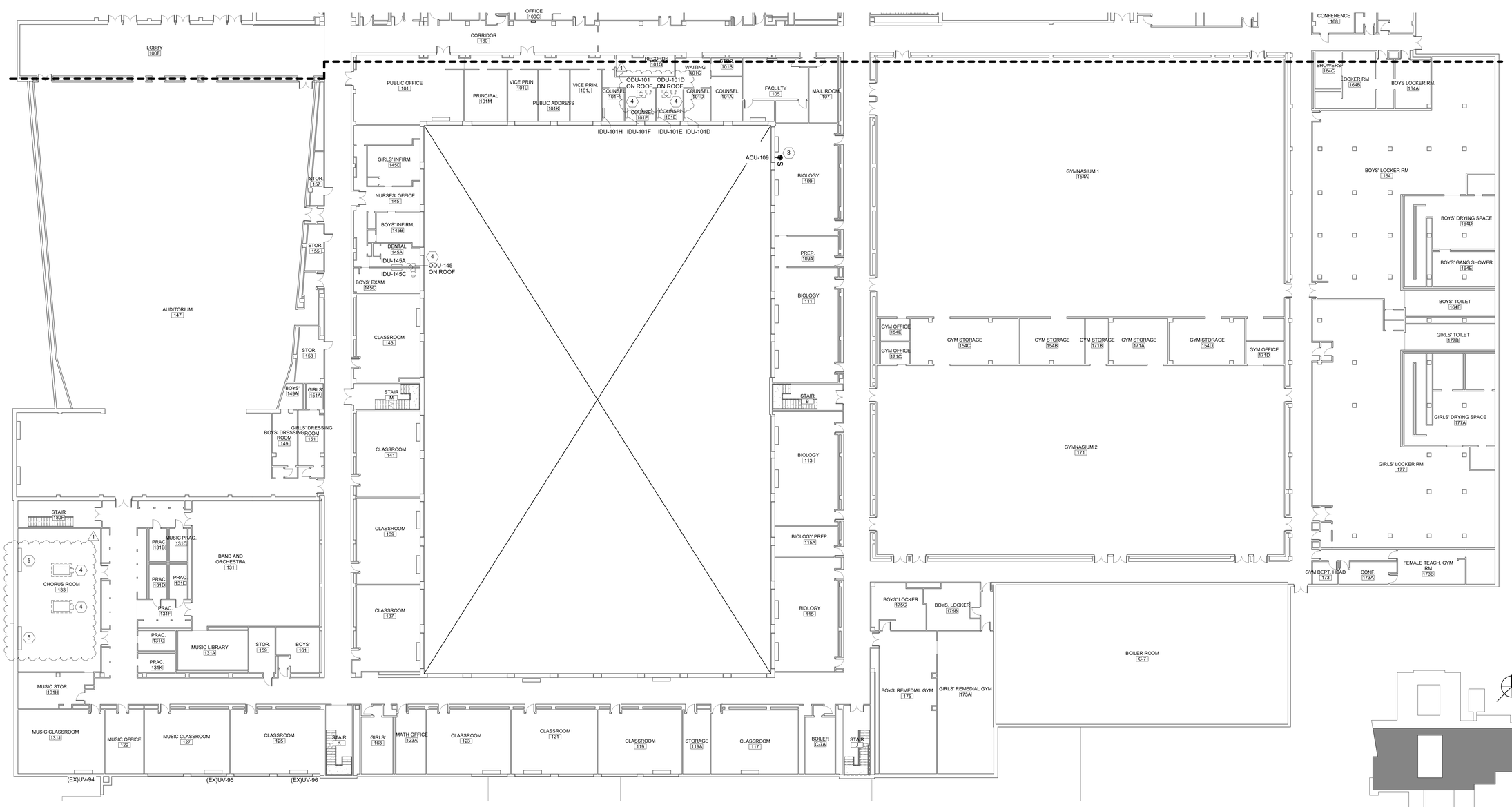
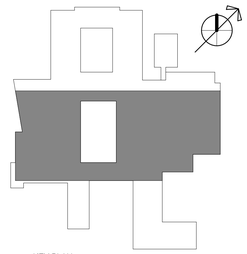
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SINGLE SURFACE MOUNTED NEMA 6-30P WALL OUTLET WITHIN 12" MAX OF EXISTING WINDOW PANEL DESIGNATED FOR NEW AC UNIT. CONNECT TO A 30A, 2P CIRCUIT BREAKER IN NEW PANEL P2, LOCATED IN CORRIDOR 53. CONNECT WITH (2) #8, (1) #8GRD IN 3/4" CONDUIT. FURNISH AND INSTALL A 30A, 2-POLE, 250 VAC SNAP SWITCH FOR ON/OFF CONTROL OF AC UNIT. WIRE THROUGH SWITCH AND MAKE FINAL CONNECTION TO AC UNIT OUTLET. (1)
4. PROVIDE 30/2 CIRCUIT BREAKER FROM NEW PANEL P2. CONNECT WITH 2#10, (1) #10GRD IN 3/4" CONDUIT. ELECTRICAL CONTRACTOR SHALL INSTALL DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE POWER AND CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND ITS ASSOCIATED INDOOR UNIT(S) IN ACCORDANCE WITH THE SPLIT SYSTEM MANUFACTURER'S REQUIREMENTS.
5. UV UNITS 133-1 AND 133-2 - RECONNECT TO EXISTING CIRCUIT. (1)



1 **ELECTRICAL POWER FIRST FLOOR PLAN - SOUTH**
SCALE: 1/16" = 1'-0"

0' 16' 32'



KEY PLAN

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05/20/2021

NO	DATE	REVISION
1	5/20/2021	ADDENDUM 2

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE

AIR CONDITIONING UPGRADE

DRAWING TITLE

ELECTRICAL POWER FIRST FLOOR PLAN - SOUTH

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY FJR	CHECKED BY BAM
MC - B-006 C OF 2020/21 EC - B-007 C OF 2020/21	

DRAWING NO.

E102

SHEET 13 OF 18

Local File: BIM 360:/0636894 - School District of Philadelphia (R2020)/063694_SDP_NEHS_IDIQ_MEP_CENTRAL_R20_BIM360.rvt
Project Number: 068625.001
5/20/2021 1:32:43 PM

PANEL DESIGNATION

NEW PANEL 'P1'

TYPE: BRANCH CIRCUIT
NUMBER OF POLES: 66
MAIN BUS RATING: 400A
MAIN RATING: 400A

LOCATION: GROUND FLOOR CORRIDOR 53
VOLTAGE: 208Y/120V, 3-PHASE, 4-WIRE
PANEL MOUNTING: RECESSED
PANEL ENCLOSURE (NEMA): 1
SHORT CIRCUIT: 22kAIC

CIR. No.	CIR. BKR.	DESCRIPTION	WIRE	GROUND	CONDUIT	LOAD - KVA ΦA	ΦB	ΦC	LOAD - KVA ΦA	ΦB	ΦC	CONDUIT	GROUND	WIRE	DESCRIPTION	CIR. BKR.	CIR. No.
1	20/2	ACU-002	#10	#10	3/4"	0.70			0.70			3/4"	#10	#10	ACU-003	20/2	2
3							0.70			0.70							4
5	30/2	ACU-006	#10	#10	3/4"			1.90			0.70	3/4"	#10	#10	ACU-024	20/2	6
7						1.90			0.70								8
9	20/2	ACU-023	#10	#10	3/4"		1.40			0.50		3/4"	#10	#10	ACU-033	30/2	10
11								1.40			0.50						12
13	20/2	ACU-035	#10	#10	3/4"	0.50			1.90			3/4"	#10	#10	ACU-014	30/2	14
15							0.50			1.90							16
17	30/2	ACU-016B	#10	#10	3/4"			1.90			1.40	3/4"	#10	#10	ACU-014A	20/2	18
19						1.90			1.40								20
21	20/2	ACU-017A	#10	#10	3/4"		1.40			1.40		3/4"	#10	#10	ACU-016A	20/2	22
23								1.40			1.40						24
25	20/2	ACU-017B	#10	#10	3/4"	1.90			1.40			3/4"	#10	#10	ACU-18D	20/2	26
27							1.90			1.40							28
29	30/2	ACU-17C	#10	#10	3/4"			1.90			1.40	3/4"	#10	#10	ACU-019A	20/2	30
31						1.90			1.40								32
33	30/2	ACU-034	#10	#10	3/4"		0.70			1.90		3/4"	#10	#10	ACU-019B	30/2	34
35								0.70			1.90						36
37	20/2	PTAC-035	#10	#10	3/4"	0.70			0.70			3/4"	#10	#10	ODU-009A	30/2	38
39							0.70			0.70							40
41	20/2	PTAC-035B	#10	#10	3/4"			0.70			0.70	3/4"	#10	#10	ODU-18B	30/2	42
43						0.70			0.70								44
45	30/2	ODU-001	#10	#10	3/4"		0.70			0.70		3/4"	#10	#10	ODU-18C	30/2	46
47								0.70			0.70						48
49	30/2	ODU-012D	#10	#10	3/4"	0.70			0.70			3/4"	#10	#10	ODU-014A	30/2	50
51							0.70			0.70							52
53	30/2	ODU-034A	#10	#10	3/4"			0.70							SPARE	30/2	54
55						0.70											56
57	20/2	SPARE													SPARE	30/2	58
59																	60
61		SPACE													SPACE		62
63		SPACE													SPACE		64
65		SPACE													SPACE		66
					TOTAL	11.6	8.7	11.3	9.6	9.9	8.7	*TOTAL*					

PANEL CONNECTED LOAD
ΦA 21.2
ΦB 18.6
ΦC 20.0
59.8 KVA CONNECTED TOTAL

X SOLID NEUTRAL BUS
X EQUIPMENT GROUND BUS
X INTEGRAL SPD

1 NEW PANEL P1
SCALE: 12" = 1'-0"

PANEL DESIGNATION

NEW PANEL 'P2'

TYPE: BRANCH CIRCUIT
NUMBER OF POLES: 66
MAIN BUS RATING: 400A
MAIN RATING: 400A

LOCATION: 1ST FLOOR CORRIDOR 180
VOLTAGE: 208Y/120V, 3-PHASE, 4-WIRE
PANEL MOUNTING: RECESSED
PANEL ENCLOSURE (NEMA): 1
SHORT CIRCUIT: 22kAIC

CIR. No.	CIR. BKR.	DESCRIPTION	WIRE	GROUND	CONDUIT	LOAD - KVA ΦA	ΦB	ΦC	LOAD - KVA ΦA	ΦB	ΦC	CONDUIT	GROUND	WIRE	DESCRIPTION	CIR. BKR.	CIR. No.
1						1.90			1.90								2
3	30/2	ACU-109	#10	#10	3/4"		1.90			1.90		3/4"	#10	#10	ACU-106	30/2	4
5	30/2	ACU-108	#10	#10	3/4"			1.90			1.90	3/4"	#10	#10	ACU-110	30/2	6
7						1.90			1.90								8
9	30/2	ACU-112	#10	#10	3/4"		1.90			1.40		3/4"	#10	#10	ACU-114	20/2	10
11								1.90			1.40						12
13	20/2	ACU-116	#10	#10	3/4"	1.40			1.40			3/4"	#10	#10	ACU-118	20/2	14
15							1.40			1.40							16
17	20/2	ACU-120A	#10	#10	3/4"			0.50			1.90	3/4"	#10	#10	ACU-122	30/2	18
19						0.50			1.90								20
21	30/2	ACU-124	#10	#10	3/4"		1.90			0.70		3/4"	#10	#10	ACU-126	20/2	22
23								1.90			0.70						24
25	20/2	ACU-134	#10	#10	3/4"	0.70			1.90			3/4"	#10	#10	ACU-138	30/2	26
27							0.70			1.90							28
29	30/2	ODU-101	#10	#10	3/4"			0.70			0.70	3/4"	#10	#10	ODU-120	30/2	30
31						0.70			0.70								32
33	30/2	ODU-101D	#10	#10	3/4"		0.70			3.00							34
35								0.70			3.00	1 1/4"	#8	#4	RTU-131	70/3	36
37	30/2	ODU-145	#10	#10	3/4"	0.70			3.00								38
39							0.70								SPARE	20/1	40
41	30/2	CU-133-1	#10	#10	3/4"			1.50							SPARE	20/2	42
43						1.50											44
45	30/2	CU-133-2	#10	#10	3/4"		1.50								SPARE	30/2	46
47								1.50									48
49		SPACE													SPACE		50
51		SPACE													SPACE		52
53		SPACE													SPACE		54
55		SPACE													SPACE		56
57		SPACE													SPACE		58
59		SPACE													SPACE		60
61		SPACE													SPACE		62
63		SPACE													SPACE		64
65		SPACE													SPACE		66
					TOTAL	9.3	10.7	10.6	12.7	10.3	9.6	*TOTAL*					

PANEL CONNECTED LOAD
ΦA 22.0
ΦB 21.0
ΦC 20.2
63.2 *KVA CONNECTED TOTAL*

X SOLID NEUTRAL BUS
X EQUIPMENT GROUND BUS
X INTEGRAL SPD

2 NEW PANEL P2
SCALE: 12" = 1'-0"

PANEL DESIGNATION

NEW PANEL 'P3A'

TYPE: BRANCH CIRCUIT
NUMBER OF POLES: 66
MAIN BUS RATING: 400A
MAIN RATING: 400A

LOCATION: 2nd FLOOR CORRIDOR 270
VOLTAGE: 208Y/120V, 3-PHASE, 4-WIRE
PANEL MOUNTING: RECESSED
PANEL ENCLOSURE (NEMA): 1
SHORT CIRCUIT: 22kAIC

CIR. No.	CIR. BKR.	DESCRIPTION	WIRE	GROUND	CONDUIT	LOAD - KVA ΦA	ΦB	ΦC	LOAD - KVA ΦA	ΦB	ΦC	CONDUIT	GROUND	WIRE	DESCRIPTION	CIR. BKR.	CIR. No.
1	30/2	ACU-203	#10	#10	3/4"	1.90			1.90			3/4"	#10	#10	ACU-205	30/2	2
3							1.90			1.90							4
5	20/2	ACU-203A	#10	#10	3/4"			1.40			1.90	3/4"	#10	#10	ACU-211	30/2	6
7						1.40			1.60								8
9	30/2	ACU-213	#10	#10	3/4"		1.90			1.90		3/4"	#10	#10	ACU-217	30/2	10
11								1.90			1.90						12
13	20/2	ACU-219A	#10	#10	3/4"	1.40			1.40			3/4"	#10	#10	ACU-219B	20/2	14
15							1.40			1.40							16
17	20/2	ACU-241	#10	#10	3/4"			0.50			1.90	3/4"	#10	#10	ACU-221A	30/2	18
19						0.50			1.90								20
21	20/2	ACU-221B	#10	#10	3/4"		1.40			1.40		3/4"	#10	#10	ACU-223C	20/2	22
23								1.40			1.40						24
25	20/2	ACU-223A	#10	#10	3/4"	1.40			1.90			3/4"	#10	#10	ACU-225	30/2	26
27							1.40			1.90							28
29	20/2	ACU-227A	#10	#10	3/4"			1.40			1.40	3/4"	#10	#10	ACU-227B	20/2	30
31						1.40			1.40								32
33	20/2	ACU-229B	#10	#10	3/4"		1.40			1.40		3/4"	#10	#10	ACU-229C	20/2	34
35								1.40			1.40						36
37	20/2	ACU-231	#10	#10	3/4"	1.40			1.40			3/4"	#10	#10	ACU-233	20/2	38
39							1.40			1.40							40
41	20/2	ACU-235	#10	#10	3/4"			1.40			0.70	3/4"	#10	#10	ODU-207A	30/2	42
43						1.40			0.70								44
45	30/2	SPARE	#10	#10	3/4"							3/4"	#10	#10	SPARE	20/2	46
47																	48
49		SPACE													SPACE		50
51		SPACE													SPACE		52
53		SPACE													SPACE		54
55		SPACE													SPACE		56
57		SPACE													SPACE		58
59		SPACE													SPACE		60
61		SPACE													SPACE		62
63		SPACE													SPACE		64
65		SPACE													SPACE		66
					TOTAL	10.8	10.8	9.4	12.2	11.3	10.6	*TOTAL*					

PANEL CONNECTED LOAD
ΦA 23.0
ΦB 22.1
ΦC 20.0
65.1 *KVA CONNECTED TOTAL*

X SOLID NEUTRAL BUS
X EQUIPMENT GROUND BUS
X INTEGRAL SPD

3 NEW PANEL P3A

PANEL DESIGNATION

NEW PANEL 'P3B'

TYPE: BRANCH CIRCUIT
NUMBER OF POLES: 66
MAIN BUS RATING: 400A
MAIN RATING: 400A

LOCATION: 2nd FLOOR CORRIDOR 270
VOLTAGE: 208Y/120V, 3-PHASE, 4-WIRE
PANEL MOUNTING: RECESSED
PANEL ENCLOSURE (NEMA): 1
SHORT CIRCUIT: 22kAIC

CIR. No.	CIR. BKR.	DESCRIPTION	WIRE	GROUND	CONDUIT	LOAD - KVA ΦA	ΦB	ΦC	LOAD - KVA ΦA	ΦB	ΦC	CONDUIT	GROUND	WIRE	DESCRIPTION	CIR. BKR.	CIR. No.
1	20/2	SPARE	#10	#10	3/4"	1.40			1.40			3/4"	#10	#10	ACU-200	20/2	2
3							1.40			1.40							4
5	20/2	ACU-202	#10	#10	3/4"			1.40			0.70	3/4"	#10	#10	ACU-204	20/2	6
7						1.40			0.70								8
9	20/2	ACU-206	#10	#10	3/4"		1.40			1.40		3/4"	#10	#10	ACU-208	20/2	10
11								1.40			1.40						12
13	20/2	ACU-210	#10	#10	3/4"	1.40			1.90			3/4"	#10	#10	ACU-212	30/2	14
15							1.40			1.90							16
17	20/2	ACU-214	#10	#10	3/4"			1.40			1.90	3/4"	#10	#10	ACU-216	30/2	18
19						1.40			1.90								20
21	20/2	ACU-218	#10	#10	3/4"		1.40			1.40		3/4"	#10	#10	ACU-220	20/2	22
23								1.40			1.40						24
25	30/2	ACU-222	#10	#10	3/4"	1.90			1.90			3/4"	#10	#10	ACU-232	30/2	26
27							1.90			1.90							28
29	20/2	ACU-234	#10	#10	3/4"			1.40			1.90	3/4"	#10	#10	ACU-236	30/2	30
31						1.40			1.90								32
33	20/2	ACU-238	#10	#10	3/4"		1.40			1.90		3/4"	#10	#10	ACU-240	30/2	34
35								1.40			1.90						36
37	20/2	ACU-242	#10	#10	3/4"	1.40			1.90			3/4"	#10	#10	ACU-244	30/2	38
39							1.40			1.90							40
41	30/2	ODU-226	#10	#10	3/4"			0.70			0.70	3/4"	#10	#10	ODU-230	30/2	42
43						0.70			0.70								44
45	30/2	SPARE	#10	#10	3/4"							3/4"	#10	#10	SPARE	20/2	46
47																	48
49		SPACE													SPACE		50
51		SPACE													SPACE		52
53		SPACE													SPACE		54
55		SPACE													SPACE		56
57		SPACE													SPACE		58
59		SPACE													SPACE		60
61		SPACE													SPACE		62
63		SPACE													SPACE		64
65		SPACE													SPACE		66
					TOTAL	11.0	10.3	9.1	12.3	11.8	9.9	*TOTAL*					

PANEL CONNECTED LOAD
ΦA 23.3
ΦB 22.1
ΦC 19.0
64.4 *KVA CONNECTED TOTAL*

X SOLID NEUTRAL BUS
X EQUIPMENT GROUND BUS
X INTEGRAL SPD

4 NEW PANEL P3B

THE SCHOOL DISTRICT OF PHILADELPHIA
OFFICE OF CAPITAL PROGRAMS
440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015
(215) 400 - 4730 | (215) 400 - 4731 (fax)
www.philasd.org

SEAL:

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

ISSUED FOR BID
05/20/2021

NO	DATE	REVISION
1	5/20/2021	ADDENDUM 2

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
ELECTRICAL SCHEDULES AND DETAILS

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY FJR	CHECKED BY BAM

MC - B-006 C OF 2020/21
EC - B-007 C OF 2020/21

DRAWING NO.
E502
SHEET 18 OF 18

SECTION 09 9000
PAINTING AND COATING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Interior painting and coating systems.

C. Scope:
   1. Finish surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
      a. Interior:
         1) Concrete Masonry Units: Concrete, split face, scored, smooth, high density, low density, and fluted.

1.02 REFERENCE STANDARDS

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency.

B. SSPC-SP 1 - Solvent Cleaning.

C. SSPC-SP 2 - Hand Tool Cleaning.

D. SSPC-SP 3 - Power Tool Cleaning.

E. SSPC-SP 13 - Surface Preparation of Concrete.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide complete list of products to be used, with the following information for each:
   1. Product characteristics.
   2. Surface preparation instructions and recommendations.
   3. Primer requirements and finish specification.
   4. Storage and handling requirements and recommendations.
   5. Application methods.
   6. Clean-up information.

C. Samples: Submit four paper draw down samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.

D. Certification: By manufacturer that paints and finishes comply with VOC limits specified.

E. Maintenance Data: Submit coating maintenance manual including finish schedule showing where each product/color/finish was used, product technical data sheets, safety data sheets (SDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.

1.04 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience and approved by manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, product name, product code, color designation, VOC content, batch date, environmental handling, surface preparation, application, and use instructions.

C. Paint Materials: Store at a minimum of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

A. Do not apply materials when environmental conditions are outside the ranges required by manufacturer.

B. Follow manufacturer's recommended procedures for producing the best results, including testing substrates, moisture in substrates, and humidity and temperature limitations.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Products: Subject to compliance with requirements, provide Sherwin-Williams Company (The) products indicated; www.sherwin-williams.com/#sle.

B. Comparable Products: Products of approved manufacturers will be considered in accordance with 01 6000 - Product Requirements, and the following:
   1. Products that meet or exceed performance and physical characteristics of basis of design products.
   2. Other Acceptable Manufacturers:
      a. Benjamin Moore & Co..
      b. PPG Industries.
      c. Or approved equal.

2.02 PAINTINGS AND COATINGS

A. General:
   1. Provide factory-mixed coatings unless otherwise indicated.
   2. Do not reduce, thin, or dilute coatings or add materials to coatings unless specifically indicated in manufacturer's instructions.

B. Volatile Organic Compound (VOC) Content:
   1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
      a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
      b. Architectural coatings VOC limits of State in which the project is located.

C. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

2.03 PAINT SYSTEMS - INTERIOR

A. Masonry CMU: Concrete, split face, scored, smooth, high density, low density, and fluted.
   1. Latex Systems:
      a. Semi-Gloss Finish High Performance (HP):
         1) 1st Coat: Sherwin-Williams PrepRite Block Filler, B25W25: www.sherwin-williams.com/#sle.
            (a) 75 to 125 sq ft/gal.
         2) 2nd and 3rd Coat: Sherwin-Williams ProMar 200 HP Zero VOC Latex Semi-Gloss, B31-1950 Series: www.sherwin-williams.com/#sle.
            (a) 4 mils wet, 1.6 mils dry per coat.
      b. Eg-Shel/Satin Finish High Performance (HP):
         1) 1st Coat: Sherwin-Williams PrepRite Block Filler, B25W25: www.sherwin-williams.com/#sle.
            (a) 75 to 125 sq ft/gal.
         2) 2nd and 3rd Coat: Sherwin-Williams ProMar 200 HP Zero VOC Eg-Shel, B20-1950 Series: www.sherwin-williams.com/#sle.
            (a) 4 mils wet, 1.7 mils dry per coat.
      c. Low Sheen Finish High Performance (HP):
         1) 1st Coat: Sherwin-Williams PrepRite Block Filler, B25W25: www.sherwin-williams.com/#sle.

(a) 75 to 125 sq ft/gal.

2) 2nd and 3rd Coat: Sherwin-Williams ProMar 200 HP Zero VOC Latex Low Gloss Eg-Shel, B41-1950 Series: www.sherwin-williams.com/#sle.
   (a) 4 mils wet, 1.6 mils dry per coat.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Masonry: Remove efflorescence and chalk.

3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Apply products in accordance with manufacturer's written instructions.

C. Apply coatings at spread rate required to achieve manufacturer's recommended dry film thickness.

3.04 PRIMING

A. Apply primer to all surfaces unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

B. Primers specified in painting schedules may be omitted on items factory primed or factory finished items if acceptable to top coat manufacturers.

3.05 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

B. Clean surfaces immediately of overspray, splatter, and excess material.

C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.06 PROTECTION

A. Protect finished coatings from damage until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

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SPECIFICATION
for
ASBESTOS ABATEMENT
at the
NORTHEAST HIGH SCHOOL
1601 Cottman Avenue
Philadelphia, Pennsylvania 19111

prepared for:

THE SCHOOL DISTRICT OF PHILADELPHIA
OFFICE OF ENVIRONMENTAL MANAGEMENT
440 North Broad Street
3rd Floor, Room 3053
Philadelphia, Pennsylvania 19130

prepared by:

SYNERTECH INCORPORATED
228 Moore Street
Philadelphia, Pennsylvania 19148
Project # 010-4629

May 25, 2021

Bernard J. Bryson
Certified Pennsylvania Asbestos Project Designer
No. 037636

1.00 INTRODUCTION

.01 This specification outlines the required tasks and procedures involved in the removal of asbestos containing material (ACM) throughout the Northeast High School in conjunction with the Air Conditioning Upgrade Project. ACM removal, associated equipment demolition and associated decontamination cleaning procedures shall be accomplished under asbestos-abatement conditions. The Asbestos Abatement Contractor (AAC) shall be employed as a sub-contractor to the Prime Electrical Contractor (MC) awarded this project.

a. The AAC shall be a current pre-qualified contractor by the School District of Philadelphia and must demonstrate they have the necessary personnel, equipment, materials, and experience to complete a project of this nature in the required time period.

.02 The scope of work includes, but is not limited to:

a. Removal and disposal of approximately 100 square feet of vinyl asbestos floor tile and associated mastic in various locations to allow for core drilling through floors, in accordance with PART 5.00-PREPARATION AND ABATEMENT-REMOVAL OF VINYL ASBESTOS FLOOR TILE AND MASTIC-NON-FRIABLE PROJECTS of these specifications

b. Drilling of holes into walls and ceilings with asbestos containing paint to allow for the installation of mechanical fasteners for mechanical, electrical and plumbing components, in accordance with PART 6.00-PREPARATION AND ABATEMENT-DRILLING OF HOLES IN WALL AND CEILINGS WITH ASBESTOS CONTAINING PAINT of these specifications
See attached Letter Report of Results ACM in Paint Testing, prepared by REPSG, dated 5/220/21, 39 pages, identifying known locations of ACM in Paint in the project area; however, ALL painted CMU walls in the project area shall be assumed to contain ACM and treated accordingly.

c. Stabilization of Lead Based Paint may be performed by the Electrical Contractor with its own forces, provided it is done in compliance with the requirements of PART 4-RENOVATION, REPAIR AND PAINTING-US EPA LEAD BASED PAINT RULE of Section 01 1100 ENVIRONMENTAL COORDINATION of the Construction Contract.

See attached Letter Report of Results of Lead in Paint Testing, prepared by REPSG, dated 5/20/21, 23 pages, identifying know location of Lead in Paint in the project area.

.03 The AAC shall furnish all labor, materials, employee training, services, permits, fees, insurance and equipment necessary to carry out the asbestos removal, decontamination operations and disposal in accordance with EPA, OSHA, and all other applicable Federal, State, and local government regulations, and this Specification.

2.00 GENERAL ABATEMENT PROJECT CONDITIONS

.01 The asbestos abatement listed are Incidental and Non-Friable Projects as defined by the Philadelphia Asbestos Control Regulation (ACR) and shall comply with all requirements therein.

a. The AAC shall have a PA licensed Supervisor on site at all times during asbestos abatement activities. The AAC shall not perform any abatement activities, including prep, bag-out, and teardown unless a City of Philadelphia certified API is on site.

.02 The AAC shall be served with a Stop Work Order by the Project Designer and/or API when they are in non-compliance with this Contract Specification and/or other pertinent regulations (Refer to *Section 3.01.a-o*).

a. The project shall remain halted until all matters identified in the Stop Work Order are corrected.

.03 The Owner reserves the right to require asbestos abatement and associated work is performed at times when the building is unoccupied.

3.00 QUALITY ASSURANCE

.01 All work and disposal shall be performed in compliance with all applicable Federal, State, and local regulations including, but not limited to:

- **a.** 29 CFR 1926.1101 (OSHA);
- **b.** 29 CFR 1926.501 (OSHA);
- **c.** 40 CFR Part 61 (NESHAP);
- **d.** 40 CFR Part 763 (AHERA);
- **e.** 40 CFR 761 **(**PCB Regulations);
- **f.** Resource Conservation and Recovery Act (RCRA);
- **g.** 40 CFR 300-399, EPA Comprehensive Environmental Response Compensation & Liability Act
- **h.** 40 CFR 745, EPA Toxic Substances Control Act; LBP Poisoning Prevention
- **i.** EPA Renovation, Repair, and Painting (RRP) rule under the Toxic Substances Control Act
- **j.** 49 CFR 171-180, DOT Hazardous Material Regulations
- **k.** 42 CFR Part 84 & 30 CFR Part 11 (NIOSH/DHHS respirator standards);
- **l.** the Asbestos Control Regulation (Philadelphia Department of Public Health);
- **m.** Act 194 & Act 161 (Pennsylvania Department of Labor and Industry);
- **n.** Section F-315.8 (R) of the Philadelphia Fire Prevention Code;
- **o.** this Specification.

.02 The AAC has the responsibility of informing themselves fully of the requirements of these agencies and shall satisfy completely this Specification and all referenced regulations. All other applicable federal state and local regulations are incorporated by reference.

.03 The AAC must be a City of Philadelphia Licensed Asbestos Abatement Contractor as well as a Pennsylvania Licensed Asbestos Contractor and employ asbestos workers certified to work in the state of Pennsylvania.

.04 Heavy-duty polyethylene tape shall be used for sealing fixed objects, the construction of critical barriers, decontamination chambers and tent containments.

4.00 NOTIFICATIONS

.01 The AAC shall notify all applicable agencies including the EPA, DEP, and Philadelphia Air Management Services, using the appropriate form(s), prior to the commencement of asbestos abatement project.

5.00 PREPARATION & ABATEMENT – REMOVAL OF VINYL ASBESTOS FLOOR TILE AND MASTIC – NON-FRIABLE PROJECTS

.01 This section is intended to specify the acceptable non-friable methods for the removal of vinyl asbestos floor tile and associated mastic.

a. Removal of vinyl floor tile shall be performed using infra-red heat machines or dry-ice along with a chemical solvent for mastic removal.

b. If it is apparent the AAC cannot remove the floor tile and/or mastic in a non-friable manner, the API will stop work and all requirements of a friable project will be implemented at no additional cost to the Owner.

.02 The AAC shall assure that exits from the building are not obstructed and that appropriate safety barriers are established to prevent access to the work area by unauthorized persons. The work areas are to be kept neat, clean, and safe.

.03 Only approved noncombustible or flame-resistant materials shall be used in the construction of temporary enclosures. Polyethylene sheeting to be used shall be certified to conform to NFPA 701.

.04 Post OSHA specified, asbestos specific danger signs at the entrance to the work area.

.05 Assure any HVAC systems associated with or which course through any work area are sealed, shut down and locked out.

a. The AAC shall supply sufficient temporary lighting to illuminate the work area during abatement.

.06 Install an approved high quality HEPA equipped air filtration devices (AFDs) so as to develop and hold a negative differential air pressure. The AFD exhaust shall be vented outside of the building.

.07 Construct a one-stage decontamination unit at the work area entrance. Workers shall wear two disposable Tyvek-type suits and a Type A respirator in the work area.

.08 Install critical barriers consisting of one (1) layer of six-mil polyethylene over all doors, HVAC ducts and any other critical openings inside the work area such that the work area is isolated from the rest of the building. Areas where critical barriers are to be installed shall first be pre-cleaned via wet wipe and HEPA vacuum techniques.

.09 Upon completion of preparation of the work area and approval by the API, perform removal of the floor tile, using the appropriate non-friable method to facilitate non-friable removal. Tiles shall be removed and placed into waste containers in as complete sections as possible to minimize the release of asbestos fibers and dust.

a. Remove all binding strips or other restrictive moldings holding floor tile at locations such as doorways, walls, thresholds, etc...

b. Using the appropriate non-friable method to loosen the tile's adhesion to the substrate, wedge a scraper beneath the edge of the floor tile and lift the tile intact to minimize the release of asbestos fibers and dust.

.10 If it is apparent the AAC cannot remove the tiles in a non-friable manner without breakage, work will be stopped by the API and all requirements of a friable project will be implemented, as per ACR Section V1.

.11 Remove all remaining mastic residue from concrete floor surfaces using a chemical solvent.

.12 Upon completion of all floor tile and mastic, perform final cleaning of the work area. Final cleaning shall be performed via HEPA vacuum and wet wiping techniques. AFDs shall remain in operation during this procedure.

.13 The API shall conduct a detailed final inspection to ensure that no visible dust or ACM debris (tile chips, dust) remains on any surfaces.

.14 The floor surface need not be encapsulated, as some replacement tile/mastic system manufacturers instructions preclude the use of an encapsulant in order to ensure proper adhesive performance.

.15 Final air sampling is recommended for documentation for any potential future inquiries regarding the protocols and protections used during the renovation project. Air sampling requirements shall be adopted by the School District of Philadelphia Office of Environmental Services.

.16 Carefully dismantle all materials used in the work area containment. Removed ACM and materials used in the work area containment shall be disposed of in sealable plastic bags as asbestos contaminated waste.

6.00 PREPARATION & ABATEMENT – DRILLING OF HOLES INTO WALLS AND CEILINGS WITH ASBESTOS CONTAINING PAINT

.01 Paint applied to CMU block walls, concrete columns and concrete ceilings is assumed and, in some cases, confirmed to contain low levels of chrysotile asbestos. This section is intended to specify the acceptable methods for the drilling of holes into painted structures to allow for the installation of fasteners intended to secure mechanical, electrical and plumbing components.

.02 All locations of asbestos containing paint impact via drilling should be considered **Incidental Projects** according to the Philadelphia ACR (5 sf or less of friable surfacing area impact – meaning, it would take in excess of 2,880 drill penetrations to exceed 5 sf of paint impact with a ¼" drill bit; 1440 drill penetrations with a ½" drill bit, and so on).

.03 All building occupants shall be removed from the work area floors during this project.

.04 All necessary building occupants remaining in the building during the asbestos abatement project shall be denied access to the asbestos abatement work area(s) by isolation barriers and/or locked doors.

.05 Assure any HVAC systems associated with or which course through any work area are sealed, shut down and locked out.

a. The AAC shall supply sufficient temporary lighting to illuminate the work area during abatement.

.06 Erect a tent containment consisting of walls and ceiling, completely enclosing and isolating the drill location(s) using one (1) layer of six (6) mil polyethylene sheeting. Seal the tent containment to the wall/ceiling in which the drilling is to occur. Polyethylene sheeting shall be installed in such a manner as to cause minimal damage to underlying surfaces. The AAC shall ensure proper adhesion of the sheeting to problem areas, such as walls with peeling paint.

.07 Construct an airlock at the entrance to the tent containment. The airlock shall consist of two sheets of polyethylene sheeting.

a. One sheet shall be completely taped along all four edges. The polyethylene sheeting is then cut down the middle.

b. The second sheet shall be taped along the top and acts as a flap covering the slit in the first sheet of plastic.

.08 Tape one (1) layer of six (6) mil polyethylene sheeting to the floor of the tent containment.

.09 All fixed, unmovable objects to be enclosed in the tent containment shall be pre-cleaned and sealed with one (1) layer of six (6) mil polyethylene sheeting.

.10 Post OSHA specified, asbestos specific danger signs at the entrance to the tent containment. Such signs shall also be posted when applicable to critical and separation barriers, and waste storage containers.

.11 Cut a slit into the tent containment to allow for the passage of the hose of a HEPA vacuum into the tent. Power the HEPA vacuum on and maintain operation of the HEPA vacuum to provide a negative pressure differential inside the tent containment throughout the drilling and subsequent cleaning tasks.

.12 Install a tack-pad at the tent containment entrance.

.13 The AAC shall wear an approved respirator and protective clothing during the drilling processes and subsequent cleaning tasks (dual cartridge, air purifying respirator [Type A] and disposable Tyvek-type suit).

.14 Install painter's tape at the drill location to limit the disturbance and fracturing of the paint around the drill hole location. Utilize a sharp masonry drill bit and a hammer drill. The drill shall be equipped with a shroud or containment system equipped with a HEPA vacuum attachment to collect dust and debris at the point of generation.

.15 After the hole has been drilled, remove the painter's tape and clean all residue from the fastener holes, as well as any dust and debris released onto the polyethylene floor and wall sheeting, utilizing wet-wiping and HEPA vacuum techniques.

.16 Encapsulate around the drill location using an encapsulant approved by the Department of Public Health. The API shall inspect the sealant/encapsulant to confirm adequate and proper application.

.17 Carefully roll up the polyethylene floor sheeting inside the tent containment and tack-pad at the tent containment entrance. Place the rolled polyethylene sheeting and tack-pad into appropriate asbestos waste containers.

.18 Remove the tent containment from the wall/ceiling location and apply encapsulant to any areas that affected the adhesion of the painted surface the tape was adhered to.

.19 This process shall be repeated for all drill fastener installation locations. The AAC may be able to relocate and reuse the tent containment following an acceptable final visual inspection by the onsite API.

.20 Final air sampling is recommended for documentation for any potential future inquiries regarding the protocols and protections used during the renovation project. Air sampling requirements shall be adopted by the School District of Philadelphia Office of Environmental Services.

.21 Carefully dismantle all materials used in the work area containment. Removed ACM and materials used in the work area containment shall be disposed of in sealable plastic bags as asbestos contaminated waste.

7.00 ACM WASTE DISPOSAL

.01 Approval must be obtained from the API prior for temporary storage of any asbestos waste containers or construction debris on site, prior to being loaded into appropriate dumpsters. The waste shall be appropriately packaged according to the type of waste. A polyethylene drop cloth and covering shall be provided and the storage areas restricted by barrier tape and appropriate signage. Asbestos waste containers must be distinctly stored separately from other waste. No long-term storage may occur in these areas.

.02 The loading, transportation, and disposal of asbestos waste at the landfill shall occur in accordance with regulatory requirements of NESHAPS and applicable state and local guidelines and regulations.

.03 Waste disposal containers shall conform to one of the following. Waste with sharp edges shall not be disposed of solely in polyethylene bags. All six-mil polyethylene bags shall be transparent so that when filled, the contents of the bag are readily visible.

a. Two (2) six-mil polyethylene bags, one placed inside the other, separately sealed. The bags shall be carefully closed to minimize dead air space and taped shut.

.04 The AAC shall label asbestos waste with the name of the generator and the location from which the waste was generated.

.05 The container used for transporting and disposing of ACM waste shall be clearly and properly labeled as specified in EPA and DOT regulations. In addition to generator labels, containers must carry the following labels:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

-and-

DOT labels requirement: (Easily readable in sharp relief)

CAUTION
Contains Asbestos Fibers
Avoid Opening or Breaking Container
Breathing Asbestos is Hazardous
to your Health
RQ ASBESTOS
9,NA2212,PG III
(ASBESTOS)

.06 During waste load out, post asbestos specific danger signs along the waste disposal route, and on and around the vehicle or dumpster being used to transport the waste off site.

.07 Waste routes must be approved by the Owner and on-site API prior to the commencement of work. All waste being transported through the building must be placed in covered/enclosed containers bearing proper warning signs. The waste route must be kept clean.

a. The rolling of waste drums or the dropping of waste bags down stairs is strictly prohibited!

b. After transport of waste through the building is completed, the AAC shall wet mop the waste removal route to assure continued cleanliness and removal of any debris associated with the waste transport tasks.

.08 All documentation of transportation and disposal transactions such as dump receipts, trip tickets and waste manifests shall be completed and delivered to the Owner for their records.

.09 Should the Owner not receive a receipt of the waste shipment record within 35 days, the Owner shall contact the AAC to determine the status/disposition of the waste.

.10 Should the Owner not receive a receipt of the waste shipment record within 45 days, the Owner shall notify the EPA.

8.00 PROJECT CLOSEOUT

.01 After achieving acceptable air sample clearance and dismantling the work area, the AAC shall be released after the following items are completed:

- **a.** Removal of all temporary signs, labels, tape and glue/tape adhesive residue.
- **b.** Removal of all temporary devices, facilities, and equipment.
- **c.** Cleaning the project site and storage areas of trash, etc.
- **d.** Replacement/repair of any damage.
- **e.** SDP deems the repair work (if any) is acceptable for re-occupancy.
- **f.** Removal of all waste containers (asbestos, scrap, and construction debris) from site and proper disposal of waste.

.02 Upon completion of the project, the AAC shall submit final documentation to the Owner, including but not limited to, all waste handling/shipping documentation/manifests.

END OF SPECIFICATION

REPSG
React Environmental
Professional Services Group, Inc.

May 20, 2021

The School District of Philadelphia
Office of Capital Programs
440 North Broad Street
Philadelphia, PA 19130
Attn: Mr. Kevin Meldrum
kmeldrum@philasd.org

RE: Results of ACM in Paint Testing
Capital Project – Air Conditioning System Upgrade
North East High School (ULCS No. 8020)
1601 Cottman Avenue
Philadelphia, PA 19111
REPSG Project Number 12654.240.01

Dear Mr. Meldrum

React Environmental Professional Services Group, Inc., (REPSG) has performed asbestos in paint testing at "North East High School (ULCS No. 8020)" located at 1601 Cottman Avenue in the City of Philadelphia, Pennsylvania (the subject property).

The scope of this investigation was limited to building components at accessible areas of the subject property structure within the scope of planned air conditioning system upgrades. Components included within this scope of work included select concrete masonry unit (CMU) walls covered in at least one coat of visible and deteriorating paint that were within the planned installation scope of work at the subject property. This letter report summarizes the sampling activities performed and the results of the asbestos analyses.

Asbestos containing material (ACM) is defined as material that is shown by polarized light microscopy (PLM) techniques to contain greater than 1% asbestos. Friable ACMs are those that when dry can be pulverized by hand pressure and are therefore more susceptible to creating airborne asbestos hazards.

This survey was conducted by Ms. Suzanne Shourds, Mr. James Arbuckle, and Ms. Quanda Beck, EPA-accredited and Philadelphia-certified Asbestos Investigators. All sampling was conducted in

P.O. Box 5377
6901 Kingsessing Avenue, Suite 201
Philadelphia, PA 19142-0377

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Fax: 215.729.1557
www.repsg.com

accordance with AHERA regulations.

The samples of suspected ACMs were submitted to EMSL Analytical Inc., an analytical testing laboratory located in Cinnaminson, New Jersey, for analysis. EMSL is an American Industrial Hygiene Association (AIHA) and National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. Due to positive stops and the presence of multiple layers of materials on samples, a total of 104 samples were analyzed via polarized light microscopy (PLM EPA Method 600/R-93/116), and one (1) sample was analyzed via 400-point count methodology.

The results of the laboratory testing that indicate the presence of asbestos in paint on CMU walls at the subject property are summarized on **Table 1**. Full documentation of the sampling and analysis, including laboratory analysis reports and chain of custody documentation, are included in the Philadelphia A.I.R., included as an attachment to this letter.

REPSG
React Environmental
Professional Services Group, Inc.

Table 1: Summary Results of Asbestos in Paint at the Subject Property

Building Element (ID)	Floor	Space # (on Floor Plan)	Space Type	On-Site Room Name	Material Description	Observable Color	Asbestos Content	Amount of Material (SF)	Amount of Damage
B802001-3	1	150	Senior High	Classroom 150	CMU Block Wall Paint	Peach on Yellow on White	<1% Chrysotile	1840	0
B802001-3	1	152A	Senior High	Classroom 152A	CMU Block Wall Paint	Peach on Yellow on White	Assumed (Same Top Layer of Material as in Classrooms 150 & 154)	1840	0
B802001-3	1	154	Senior High	Classroom 154	CMU Block Wall Paint	Peach on Yellow on White	<1% Chrysotile	1840	0
B802001-3	1	156	Senior High	Classroom 156	CMU Block Wall Paint	Peach on Yellow on White	Assumed (Same Top Layer of Material as in Classrooms 150 & 154)	1840	0
B802001-3	1	158	Senior High	Classroom 158	CMU Block Wall Paint	Blue on White	2% Chrysotile	1840	5 LF (Scattered)
B802001-3	1	160	Senior High	Classroom 160	CMU Block Wall Paint	Blue on White	Assumed (Same Top Layer of Material as in Classrooms 158)	1840	10 SF (Scattered)
B802001-1	2	246A	Restrooms, Staff - Male	Men's Staff/Faculty Restroom across from Classroom 201	CMU Block Wall Paint	Yellow-Tan	<0.25% Chrysotile	950	0

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Based upon observations completed by REPSG during the course of this inspection, the presence of asbestos in paint on CUM walls within all classrooms at the building element wing housing classrooms 150 to 160 should be assumed.

Notated diagrams indicating the approximate locations of ACM paint covered components at the subject property are included attachments to this letter.

If you have any further questions or comments, please do not hesitate to contact our office.

Sincerely,
REPSG Environmental Professional Services Group, Inc.

Suzanne Shourds
Senior Project Manager
Philadelphia Asbestos Building Inspector License No.: AIC-0624

Attachments

THE SCHOOL DISTRICT OF PHILADELPHIA

NORTHEAST HIGH SCHOOL

1601 COTTMAN AVE, PHILADELPHIA, PA 19104

NORTHEAST HIGH SCHOOL AIR CONDITIONING UPGRADE

100% Design Submission: April 30, 2021

OWNER

SCHOOL DISTRICT OF PHILADELPHIA
440 North Broad
Philadelphia, PA 19130-4015
Phone: 215-400-4740
Fax: 215-400-4731
Email: nward@philasd.org
Attn: Nicole Ward, Design Manager
Office of Capital Programs
www.philasd.org

ENGINEER OF RECORD

GANNETT FLEMING, INC.
1010 Adams Avenue
Valley Forge, PA 19403
Phone: 610.650.8156
Fax: 610.650.8190
Email: bweisser@gfnet.com
Attn: Brian M. Weisser, P.E.

ZONING DATA

EDUCATIONAL
OCCUPANCY

BUILDING DATA

ORIGINAL CONSTRUCTION: 1957
MAJOR RENOVATIONS: 1970 - SPARC WING

GROUND FLOOR:	105,662 SF
FIRST FLOOR:	158,490 SF
SECOND FLOOR:	88,153 SF
TOTAL AREA:	352,305 SF

UNSPRINKLERED

SUBCONTRACTOR RESPONSIBILITIES

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF THE ENVIRONMENTAL REMEDIATION CONTRACTOR AND EXECUTION OF ALL ASBESTOS ABATEMENT AND LEAD-BASED PAINT STABILIZATION REQUIRED FOR THE PERFORMANCE OF THE WORK OF THIS CONTRACT.

CODE DATA

1. PHILADELPHIA BUILDING CONSTRUCTION AND OCCUPANCY CODE:
   - SUBCODE "A": THE PHILADELPHIA ADMINISTRATIVE CODE
   - SUBCODE "B": THE PHILADELPHIA BUILDING CODE
   - SUBCODE "E": THE PHILADELPHIA ELECTRICAL CODE
   - SUBCODE "EB": THE PHILADELPHIA EXISTING BUILDING CODE
   - SUBCODE "EC": THE PHILADELPHIA ENERGY CONSERVATION CODE
   - SUBCODE "F": THE PHILADELPHIA FIRE CODE
   - SUBCODE "PC": THE PHILADELPHIA CODE FOR BUILDINGS AND MAINTENANCE.
   - SUBCODE "PM": THE PHILADELPHIA PROPERTY MAINTENANCE CODE
   - PHILADELPHIA CROSS CONNECTION CODE
   - 2018 INTERNATIONAL BUILDING CODE CHAPTER II AND APPENDIX E (ADA)
2. NFPA 70-2017, NATIONAL ELECTRIC CODE
3. NFPA 72-2013, NATIONAL FIRE ALARM CODE

LOCATION MAP SCALE: NTS

DRAWING LIST

SHEET #	DRAWING #	SHEET NAME
1	G001	COVER SHEET
2	M001	LEGEND, ABBREVIATIONS & GENERAL NOTES
3	M101	MECHANICAL HVAC GROUND FLOOR PLAN
4	M102	MECHANICAL HVAC FIRST FLOOR PLAN - SOUTH
5	M103	MECHANICAL HVAC FIRST FLOOR PLAN - NORTH
6	M104	MECHANICAL HVAC SECOND FLOOR PLAN - SOUTH
7	M105	MECHANICAL HVAC SECOND FLOOR PLAN - NORTH
8	M501	MECHANICAL SCHEDULES AND DETAILS
9	E001	ELECTRICAL ABBREVIATIONS & GENERAL NOTES
10	E101	ELECTRICAL POWER GROUND FLOOR
11	E102	ELECTRICAL POWER FIRST FLOOR PLAN PART 1
12	E103	ELECTRICAL POWER FIRST FLOOR PLAN PART 2
13	E104	ELECTRICAL POWER SECOND FLOOR PLAN PART 1
14	E105	ELECTRICAL POWER SECOND FLOOR PLAN PART 2
15	E501	PARTIAL EXISTING SINGLE LINE DIAGRAM
16	E502	ELECTRICAL SCHEDULES AND DETAILS

THE SCHOOL DISTRICT OF PHILADELPHIA
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MECHANICAL / PLUMBING ENGINEER:
GANNETT FLEMING, INC.
1010 ADAMS AVENUE
VALLEY FORGE, PA 19403
Phone: 610.783.3862
Email: BWEISSER@GFNET.COM
Attn: BRIAN WEISSER

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

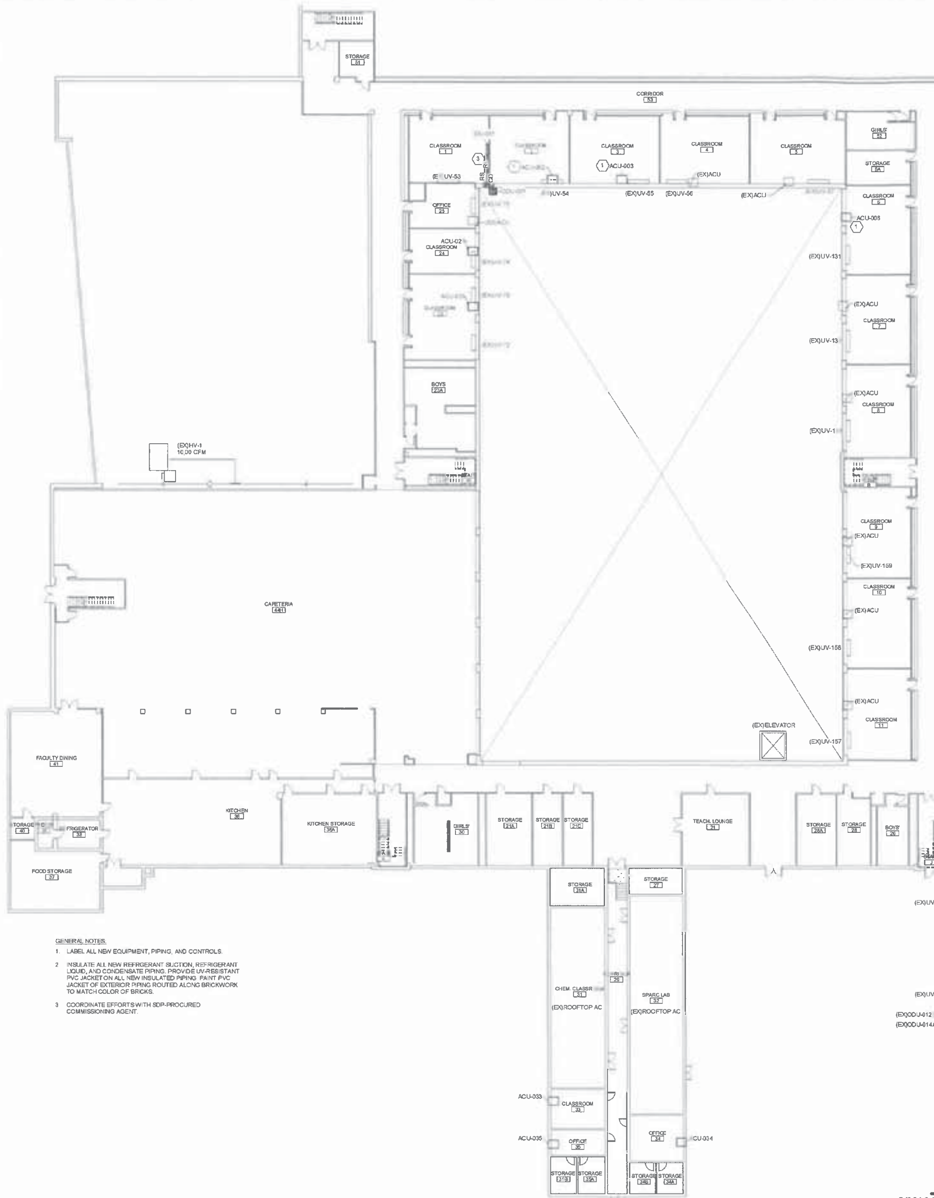
DRAWING TITLE
COVER SHEET

DRAWING SCALE
AS NOTED

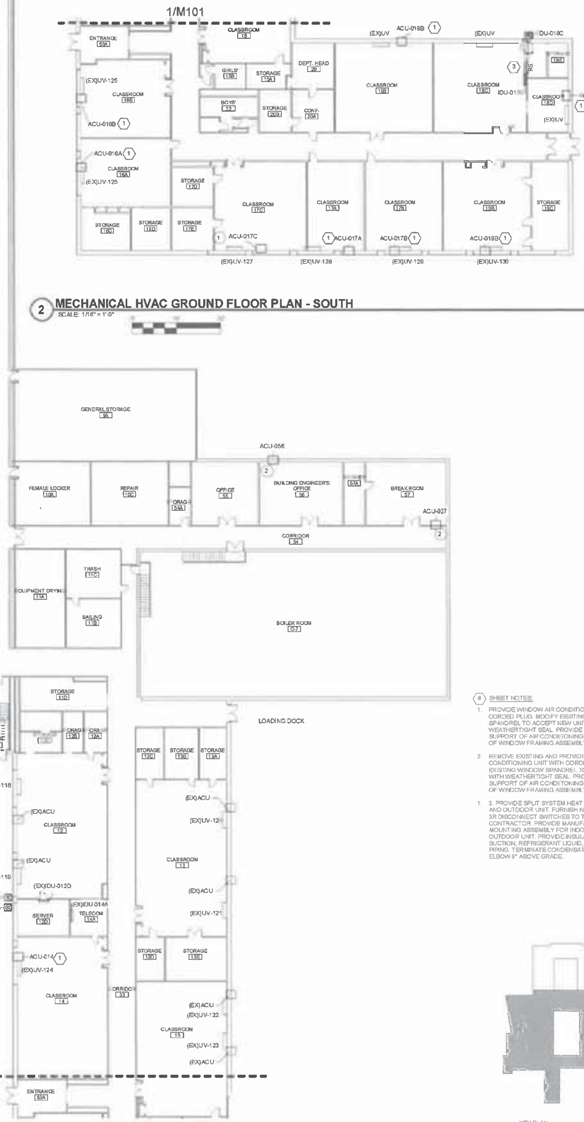
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
G001
SHEET 1 OF 16



1 MECHANICAL HVAC GROUND FLOOR PLAN - NORTH
SCALE: 1/16" = 1'-0"



2 MECHANICAL HVAC GROUND FLOOR PLAN - SOUTH
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

1. LABEL ALL NEW EQUIPMENT, PIPING, AND CONTROLS.
2 INSULATE ALL NEW REFRGERANT SUCTION, REFRIGERANT LIQUID, AND CONDENSATE PIPING. PROVIDE UV-RESISTANT PVC JACKET ON ALL NEW INSULATED PIPING. PAINT PVC JACKET OF EXTERIOR PIPING ROUTED ALONG BRICKWORK TO MATCH COLOR OF BRICKS.
3 COORDINATE EFFORTS WITH SDP-PROCURED COMMISSIONING AGENT.

\# SHEET NOTES:

1. PROVIDE WINDOW AIR CONDITIONING UNIT WITH CORDED PLUG. MODIFY EXISTING WINDOW SPANDREL TO ACCEPT NEW UNIT WITH WEATHERTIGHT SEAL. PROVIDE BRACING AND SUPPORT OF AIR CONDIITONING UNIT INDEPENDENT OF WINDOW FRAMING ASSEMBLY.
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1. 3. PROVIDE SPLIT SYSTEM HEAT PUMP INDOOR UNIT AND OUTDOOR UNIT. FURNISH NEMA 12 AND NEMA 3R DISCONNECT SWITCHES TO THE ELECRICAL CONTRACTOR. PROVIDE MANUFACTURER'S WALL MOUNTING ASSEMBLY FOR INDOOR UNIT AND OUTDOOR UNIT. PROVIDE INSULATED REFRIGERANT SUCTION, REFRIGERANT LIQUID, AND CONDENSATE PIPING. TERMINATE CONDENSATE PIPING WITH ELBOW 8" ABOVE GRADE.

KEY PLAN

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Email: BWEISSER@GFNET.COM
Attn: BRIAN WEISSER

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE. PHILADELPHIA PA 19111

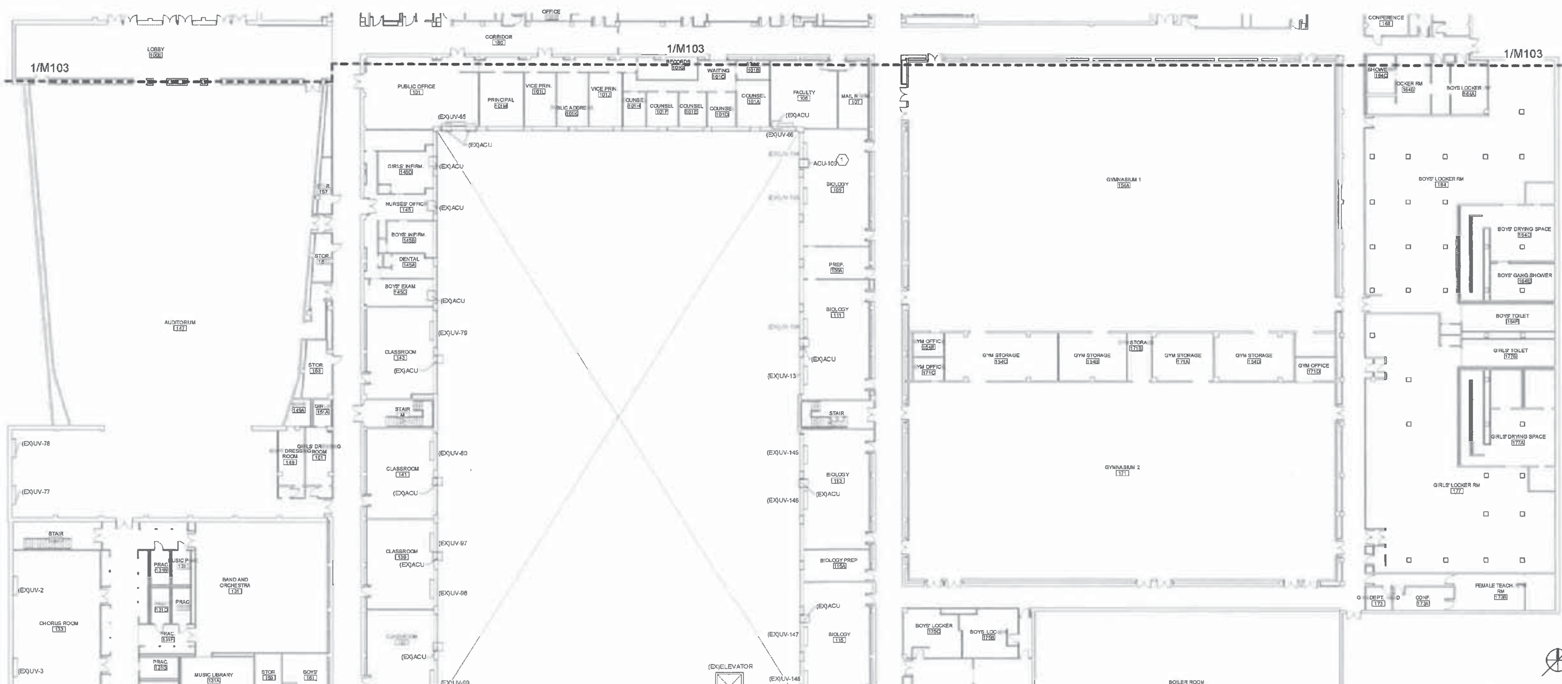
PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC GROUND FLOOR PLAN

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M101
SHEET 3 OF 16



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3. COORDINATE EFFORTS WITH SDP-PROCURED COMMISSIONING AGENT.

(#) SHEET NOTES:

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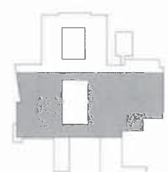
1 MECHANICAL HVAC FIRST FLOOR PLAN - SOUTH
SCALE: 1/16" = 1'-0"



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BRIAN M WEISSER
PA PE08369

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SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC FIRST FLOOR PLAN - SOUTH

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M102
SHEET 4 OF 16

Classrooms in Red Ovals confirmed ACM in paint via testing

Classrooms in Red Rectangles presumed ACM in paint based off results of other samples

1 MECHANICAL HVAC FIRST FLOOR PLAN - NORTH

SCALE: 1/16" = 1'-0"

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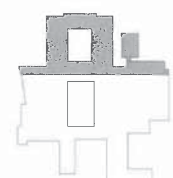

KEY PLAN

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100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC FIRST FLOOR PLAN - NORTH

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M103

SHEET 5 OF 16

GENERAL NOTES:

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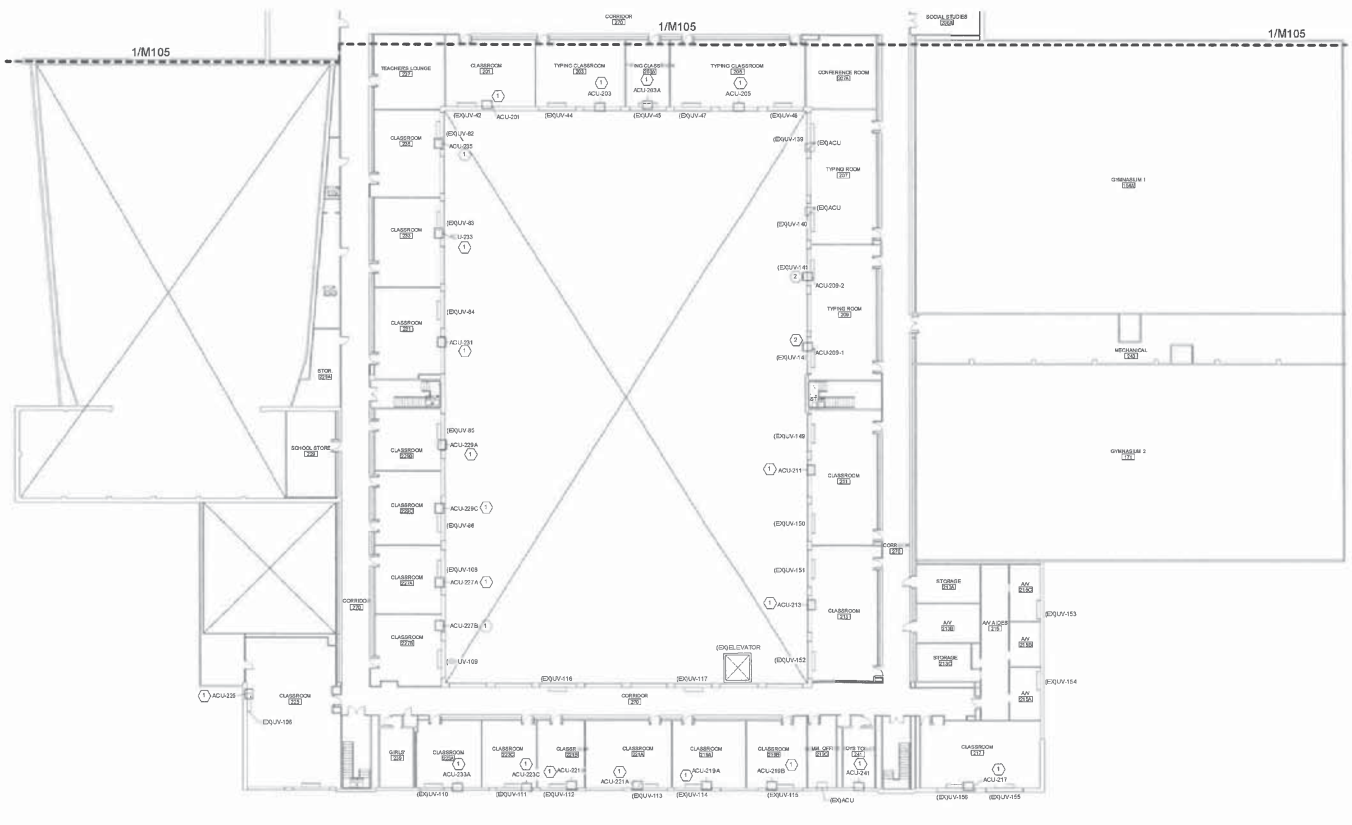
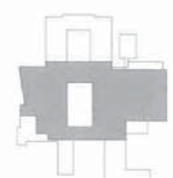


(1) MECHANICAL HVAC SECOND FLOOR PLAN - SOUTH
SCALE: 1/16" = 1'-0"



KEY PLAN

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04/30/2021

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SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

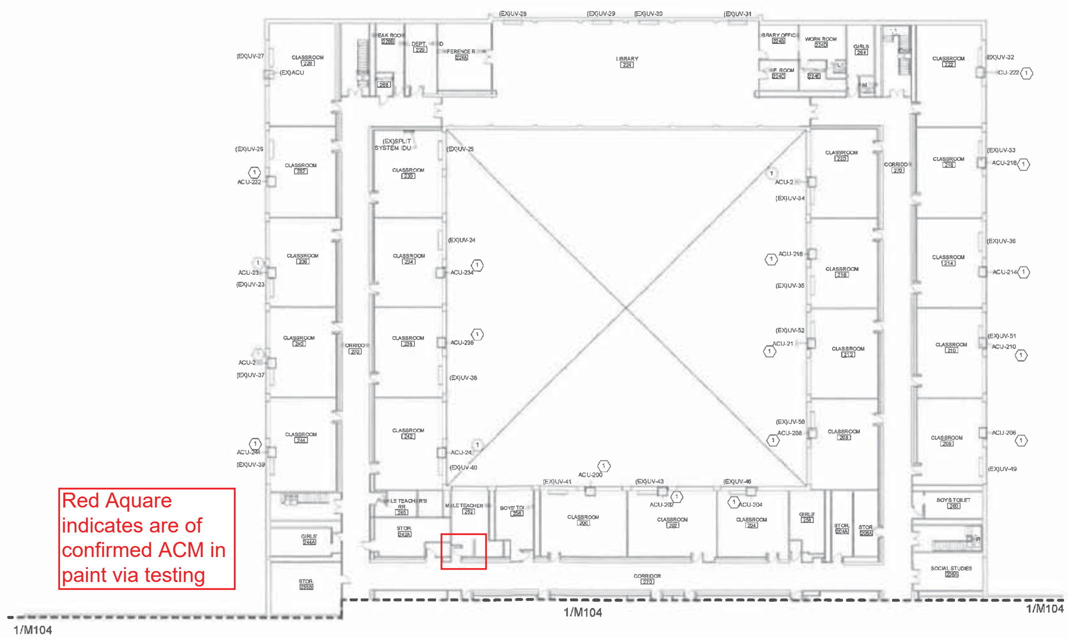
DRAWING TITLE
MECHANICAL HVAC SECOND FLOOR PLAN - SOUTH

DRAWING SCALE
AS NOTED

LOCATION NO. 8020
ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ
CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M104
SHEET 6 OF 16



1 MECHANICAL HVAC SECOND FLOOR PLAN - NORTH

KEY PLAN

GENERAL NOTES:

1. LABEL ALL NEW EQUIPMENT, PIPING, AND CONTROLS.
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SHEET NOTES:

1. PROVIDE WINDOW AIR CONDITIONING UNIT WITH CORDED PLUG. MODIFY EXISTING WINDOW SPANDREL TO ACCEPT NEW UNIT WITH WEATHERTIGHT SEAL. PROVIDE BRACING AND SUPPORT OF AIR CONDITONING UNIT INDEPENDENT OF WINDOW FRAMING ASSEMBLY.

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100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC SECOND FLOOR PLAN - NORTH

DRAWING SCALE
AS NOTED

LOCATION NO. 8020
ENGINEER'S PRJ. NO. 068625.001

DRAWN BY JMJ
CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M105

SHEET 7 OF 16

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	AIRFLOW (CFM)	SENSIBE COOLING (BTU/H)	ELECTRICAL DATA: HZ	FLA	MCA	SCCR (kA)	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	REMARKS
IDU-001	320-370-425	18,000 - 12,200	60	[illegible]	11	5	29	MITSUBISHI	PKA-A18HA7	1, 2, 3
IDU-018C	320-370-425	18,000 - 12,200	60	0.33	11	5	29	MITSUBISHI	PKA-A18HA7	1, 2 3
IDU-120	635-705-775	24,00 - 18,500	60	0.38	19	5	46	MITSUBISHI	PKA-A24HA7	1, 2, 3

REMARKS

1. FURNISH DISCONNECT SWITCH TO ELECTRICAL CONTRACTOR.
2. PROVIDE REMOTE-MOUNTED, PROGRAMMABLE THERMOSTAT, CONTROL WIRE, CONDUIT, AND LOCKABLE CLEAR LEXAN COVER.
3. PROVIDE MANUFACTURER'S WALL MOUNTING ASSEMBLY.

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	SENSIBE COOLING (BTU/H)	ELECTRICAL DATA: HZ	FLA	MCA	MOCP	SCCR (kA)	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	REMARKS
ODU-001	18,00 - 12,200	60	0.5	11	28	5	99	MITSUBISHI	PUY-A18NKA7	1, 2, 3
ODU-018C	18,00 - 12,200	60	0.5	11	28	5	99	MITSUBISHI	PUY-A18NKA7	1, 2, 3
ODU-120	24,00 - 18,500	60	0.38	19	28	5	151	MITSUBISHI	PKA-A24NHA7	1, 2, 3

REMARKS

1. FURNISH NEMA 3R DISCONNECT SWITCH TO ELECTRICAL CONTRACTOR.
2. PROVIDE WITH LOW-AMBIENT COOLING KIT.
3. PROVIDE MANUFACTURER'S WALL MOUNTING ASSEMBLY.

INSULATION THICKNESS SCHEDULE

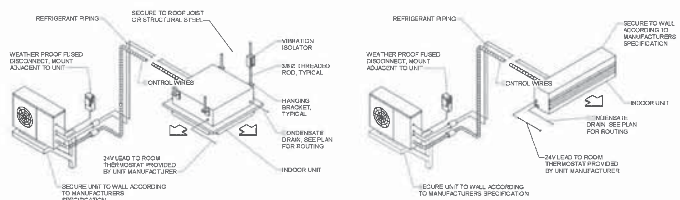
FLUID OPERATING TEMPERATURE RANGE AND USAGE (F)	INSULATION CONDUCTIVITY: CONDUCTIVITY (BTU-IN/(H-FT^2-F))	MEAN RATING TEMP. (F)	NOMINAL PIPE OR TUBE SIZE (INCHES): < 1	1 TO < 1.5	1.5 TO < 4	4 TO < 8	≥ 8
HEATING SYSTEMS (STEAM>15 PSIG)							
> 350	0.32 - 0.34	250	4.5	5	5	5	5
251 - 350	0.29 - 0.32	200	3	4	4.5	4.5	4.5
HEATING SYSTEMS (STEAM<15PSIG)							
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3	3
HEATING SYSTEMS (HOT WATER, STEAM CONDENSATE)							
141 - 200	0.25 - 0.29	125	1.5	1.5	2	2	2
105 - 140	0.21 - 0.28	100	1	1	1.5	1.5	1.5
COOLING SYSTEMS (CHILLED WATER, REFRIGERANT, AIR CONDITIONING CONDENSATE)							
40 - 60	0.21 - 0.27	75	0.5	0.5	1	1	1
< 40	0.20 - 0.26	50	0.5	1	1	1	1.5

AIR CONDITIONING UNIT SCHEDULE

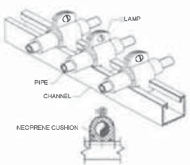
MARK	SUPPLY AIRFLOW (CFM)	COOLING CAPACITY (MBH)	HEATING OUTPUT (KW)	ELECTRICAL DATA: V	Ø	HZ	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER	MODEL	REMARKS
ACU-002	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-003	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	[illegible]	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
AC[illegible]A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
AC[illegible]B	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
AC[illegible]C	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	[illegible]	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-124	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-126	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-134	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-138	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-200	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-201	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-202	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-203	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-203A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-204	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-205	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-206	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-208	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-209-1	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-209-2	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-210	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-211	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-212	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-213	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-214	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-216	[illegible]	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-217	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-218	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219B	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-220	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-221A	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-221B	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-222	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-223C	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-225	[illegible]	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-227A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-227B	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-229A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-229C	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-232	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-233	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-233A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-234	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-235	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-236	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-238	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-240	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-241	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-242	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-244	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1

REMARKS

1. PROVIDE WITH 3' CORDED PLUG AND INTEGRAL THERMOSTAT.



3 DUCTLESS SPLIT SYSTEM WALL MOUNTED INSTALL DETAIL
SCALE: NTS

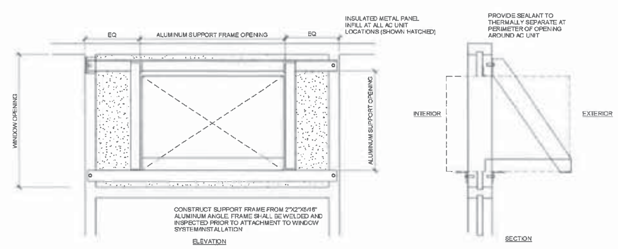


NOTES:
1. USE GRINNELL PS SERIES POWER-STRUT CHANNEL WITH PS1400 PIPE AND CONDUIT CLAMPS OR EQUIVALENT. CLAMPS TO HAVE CAPTIVE MACHINE SCREW/NYLON LOCKNUT AND A THERMOPLASTIC RUBBER INSERT.
2. REFRIGERANT PIPING TO BE SECURED AS NECESSARY TO PREVENT MOVEMENT, VIBRATION, AND NOISE. MAXIMUM DISTANCE BETWEEN ANCHORAGE POINTS = 4'-0"
3. USE GRINNELL SERIES PS 684 BEAM CLAMPS OR EQUIVALENT TO ATTACH CHANNELS TO ROOF/FLOOR SUPPORT BEAMS.
4. USE EXPANSION TYPE FASTENERS APPROVED FOR USE IN BASE MATERIAL FOR ATTACHING CHANNELS TO INTERIOR WALLS.

2 REFRIGERANT AND CONDENSATE PIPING SUPPORT DETAIL
SCALE: NTS

GENERAL NOTES

1. INTERIOR SUPPORT ANGLES TO BE 2"X2"X5/16" ALUMINUM ANGLE FASTENED TO WINDOW FRAMING.
2. WINDOW UNIT TO BE SUPPORTED BY SUPPORT EQUIPMENT AND INTERIOR ANGLE AND NOT RESTING ON METAL PANEL INFILL MATERIAL.
3. FLASHING SHALL BE 18 GAUAGE AND SCREWED THROUGH METAL PANEL INFILL. SEALANT SHALL BE SILICON
4. ALL FASTENERS SHALL BE STAINLESS STEEL.



1 EXTERIOR AIR CONDITIONING WALL UNIT - INSTALLATION DETAIL
SCALE: 1 1/2" = 1'-0"

THE SCHOOL DISTRICT OF PHILADELPHIA

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100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL SCHEDULES AND DETAILS

DRAWING SCALE
AS NOTED

LOCATION NO. 8020 | ENGINEER'S PRJ. NO. 068625.001

DRAWN BY JMJ | CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M501

SHEET 8 OF 16

LINES AND 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 KEYED NOTE
- # DRAWING REVISION NUMBER
- E-1 EQUIPMENT TAG
- NORTH ARROW

1 VIEW TITLE / SCALE
- INDICATES PLAN/DETAIL NUMBER
- PLAN/DETAIL TITLE
- SCALE (AS REQUIRED)

1 / M301
- INDICATES PLAN/DETAIL NUMBER
- INDICATES DRAWING ON WHICH DRAWING SECTION APPEARS

ONE LINE DIAGRAM

- LOW VOLTAGE DRAWOUT CIRCUIT BREAKER
  - AF - AMP FRAME
  - AT - AMP TRIP
  - EO - ELECTRICALLY OPERATED
  - LISG - TRIP ELEMENTS
    - L- LONG TIME
    - S- SHORT TIME
    - I- INSTANTANEOUS
    - G GROUND FAULT
  - ST - SHUNT TRIP
- LOW VOLTAGE CIRCUIT BREAKER
- (M) CURRENT TRANSFORMER/METER COMBINATION
- ST - SHUNT TRIP
GF - GROUND FAULT
EO - ELECTRICALLY OPERATED
- MEDIUM VOLTAGE ISOLATION SWITCH
- FUSED CUTOUT
- FUSED LOAD BREAK SWITCH
- CONTACTOR
  - 7 - NEMA SIZE
- MAGNETIC MOTOR STARTER. NUMERAL INDICATES NEMA SIZE (FVNR UNLESS OTHERWISE NOTED)
- CAPACITOR
- VFD VARIABLE FREQUENCY DRIVE
- POWER TRANSFORMER
- VOLTAGE TRANSFORMER
  - 480-120 RATIO
- CURRENT TRANSFORMER
  - 2 NUMBER REQUIRED
  - X POLARITY MARK
  - 600/5 MR MULTI RATIO
  - C/200 ACCURACY CLASS
- GROUND FAULT CURRENT TRANSFORMER (CORE BALANCE)
- MOTOR, NUMBER INDICATES HORSE POWER
- GENERATOR
- ATS - AUTOMATIC TRANSFER SWITCH
MTS - MANUAL TRANSFER SWITCH
- FUSE
- GROUND
- (A) METER
  - A - AMMETER
  - V - VOLTMETER
  - W - WATT METER
  - WH - WATT HOUR METER
  - KWH - KILOWATT HOUR
  - KVAR - KILOVAR METER
  - VAR - VAR METER
  - HZ - FREQUENCY METER
  - PF - POWER FACTOR METER
- DPM DIGITAL POWER METER
- SPD SURGE PROTECTION DEVICE
- LIGHTNING ARRESTOR
- NON FUSED SAFETY SWITCH
- F FUSED SAFETY SWITCH
- 600A 3P / 600A 3P / 600A 3P — MANUAL TRANSFER SWITCH WITH CONNECTION FOR PERMANENT GENERATOR (HARDWIRED) PORTABLE GENERATOR (CAM CONNECTIONS) & LOAD BANK (CAM CONNECTIONS) (TRIPLE SWITCH OR APPROVED EQUAL)

GROUNDING

- GROUND ROD
- G — BARE COPPER CONDUCTOR EXPOSED
- G — BARE COPPER CONDUCTOR BURIED OR EMBEDDED IN CONCRETE
- GND GROUND BUS
- TW TEST WELL

ABBREVIATIONS

A or AMP	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMMETER SELECTOR SWITCH AMMETER SELECTOR SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
DISC	DISCONNECT
DIV	DIVISION
DS	DISCONNECT SWITCH
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING(CONDUIT) ELECTRICAL METALLIC TUBING(CONDUIT)
EP	EXPLOSION PROOF
EUH	ELECTRIC UNIT HEATER
F/T	FEED THROUGH
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FRE	FIBERGLASS REINFORCED EPOXY
FU	FUSE
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING - VENTILATION - AIR CONDITIONING
IG	ISOLATED GROUND
IND	INDUSTRIAL
JIC	JOINT INDUSTRIAL COUNCIL
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LA	LIGHTNING ARRESTOR
LC	LIGHTING CONTACTOR
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MOA	MULTI OUTLET ASSEMBLY
MOD	MOTOR OPERATED DAMPER
MS	MOTOR STARTER
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
No	NUMBER
PMT	PAD MOUNTED TRANSFORMER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
RECP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL(CONDUIT)
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE
SC	SURGE CAPACITOR
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
TC	CABLE TRAY - CABLE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VS	VOLTMETER SELECTOR SWITCH
W	WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
1-PH	SINGLE PHASE
3-PH	THREE PHASE

CONDUIT FEEDERS & BRANCH CIRCUITS

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

GENERAL POWER

- C — DENOTES MOUNTED 6" ABOVE COUNTER TOP
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE, NEMA 5-20R
- GF — RECEPTACLE WIRED TO GROUND FAULT CIRCUIT BREAKER
- GFCI — GROUND FAULT CIRCUIT INTERRUPTER
- S - SWITCHED ISOLATED GROUND
- S — SWITCHED
- TR — TAMPER RESISTANT
- WP — WEATHER RESISTANT RECEPTACLE W/IN-USE COVER (WET LOCATION)
- WR — WEATHER RESISTANT RECEPTACLE W/NON-IN-USE COVER (DAMP LOCATION)
- DUPLEX RECEPTACLE, NEMA 5-20R
  - TV — 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
- SPECIAL PURPOSE RECEPTACLE FLOOR MOUNTED (AMPACITY AS NOTED)
- B10 — SURFACE MOUNTED RACEWAY
LETTER INDICATES TYPE (SEE E600)
NUMBER INDICATES LENGTH
- (J) JUNCTION BOX
- NON FUSED DISCONNECT SWITCH
- F FUSED DISCONNECT SWITCH
- MOTOR STARTER
- COMBINATION MOTOR STARTER
- CONTACTOR
- TS TIME CLOCK SWITCH CONTROL
- S_T TIME SWITCH
- S_M MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOADS
- S_{MT} MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
- S_{MF} MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOADS WITH PILOT LIGHT
- PANELBOARD
- PB PUSHBUTTON STATION TYPE AS NOTED
- MUSHROOM SWITCH
- MOTOR (HORSEPOWER INDICATED ON PLANS)
- T TRANSFORMER
- GENERATOR
- MOD MOTOR OPERATED DAMPER
- (T) THERMOSTAT
- UPS UNINTERRUPTIBLE POWER SUPPLY
- SPD SURGE PROTECTION DEVICE
- UNIT HEATER
- VFD VARIABLE FREQUENCY DRIVE

MISCELLANEOUS

- —C— COMMUNICATION
- —E— ELECTRIC
- —E— ELECTRIC SERVICE/DUCTBANK-UNDERGROUND
- —T— TELEPHONE
- —OHE— OVERHEAD ELECTRIC
- —OHT— OVERHEAD TELEPHONE
- —UE— UNDERGROUND ELECTRIC
- UTILITY POLE
- HH-x HANDHOLE
- MH-x MANHOLE

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70) AS ADOPTED AND AMMENDED BY PHILADELPHIA ELECTRICAL CODE AND THE 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. 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.
4. 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.
5. 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.
6. WALL AND FLOOR PENETRATIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE FIRESTOP AS REQUIRED FOR ALL PENETRATIONS MADE FOR ELECTRICAL WORK.
7. COORDINATE THE COLORS OF WIRING DEVICES AND FACEPLATES WITH THE ARCHITECT.
8. EQUIPMENT AND DEVICES SHALL MATCH THE BUILDING STANDARD.

WIRING METHODS

1. UNDERGROUND
   A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONCRETE ENCASED AND DIRECT BURIED CONDUIT SHALL BE SCHEDULE 40 PVC. WHERE CONDUITS PASS THROUGH GRADE, THROUGH CONCRETE PADS, OR THROUGH BUILDING FOUNDATION WALLS OR FLOOR SLABS CONDUIT SHALL BE PVC COATED.
2. OUTDOORS
   A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONDUIT INSTALLED OUTDOORS SHALL BE GALVANIZED RIGID STEEL AND FLEXIBLE CONNECTIONS SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
3. INDOORS
   A. IN FINISHED AREAS ALL RACEWAY AND WIRING SHALL BE CONCEALED AND BOXES RECESSES. 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.
   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.

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Attn: BRIAN WEISSER

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
ELECTRICAL ABBREVIATIONS & GENERAL NOTES

DRAWING SCALE
AS NOTED

LOCATION NO.	ENGINEER'S PRJ. NO.
8020	068625.001
DRAWN BY	CHECKED BY
FJR	BAM

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
E001
SHEET 9 OF 16

City of Philadelphia - Department of Public Health
Air Management Services, 2nd Fl. Asbestos Control Unit
321 University Ave. Philadelphia, PA 19104

Asbestos Inspection Report

Office Use Only

Date Received L&I:	Date Received AMS:
Date Inspected	Inspector No.

1. Name of Building / Property: North East High School
Address: 1601 Cottman Avenue

2. Name of Building / Property Owner: School District of Philadelphia
Address: 440 N. Broad Street
Phone No.: (215) 400-4000

3. Name of Philadelphia Certified Investigator: Suzanne Shourds
Certification No.: AIC-0624
Contact Information / Email / Phone No.: sshourds@repsg.com/215-729-3220

L&I Commercial Activity No. (Former Business Privilege License No.): 356481
Business Tax ID No.: 20-3007762

4. Name of Philadelphia Licensed Laboratory: EMSL
License No.: ALL-137
Phone No.: 800-220-3675

5. Scope of Work: (Insert or attach a complete description of the portion of the subject property inspected and the anticipated work that will result in the disturbance of the identified Asbestos Containing Materials (ACMs) (e.g. demolition, asbestos abatement, and / or renovation activities.)

Renovations related the installation/upgrade of air conditioning units at CMU wall systems at specified areas throughout the school. All accessible areas within the proposed scope of work were inspected. Should any additional suspect ACMs be found during the course of renovation activities, or should the scope of work change, work should immediately stop in that area and REPSG should be contacted for further investigation and/or abatement.

6. ☐ Property has been declared to be in imminent danger (ID) of failure or collapse by the City of Philadelphia Department of Licenses & Inspections. Attached is a copy of the L&I Notice of Violation declaring the property I.D. **Note: INVESTIGATOR MUST BE ON SITE DURING DEMOLITION!

7. (ACMs) identified? ☑ Yes (List Below) ☐ No (explain)

8. Suspected ACM's sampled? ☑ Yes (attached are copies of the laboratory chain of custody and bulk sample results.) ☐ No (Why?)

9. List all identified ACM's located in the planned renovation/demolition areas. Damaged ACM must be listed and then repaired or removed prior to renovation. You (Investigator) must label all ACM that may be left in the work area. (Attached are add'tl sheets)

Location	Description	Type (Code 1)	Amount Square	Amount Linear	Condition (Code 2)	Action (Code 3)
SEE ATTACHED						

Code 1
FRI - Friable
NF1 - Non-Friable, Cat. 1
NF2 - Non-Friable, Cat. 2

Code 2
DD - Deteriorated or Delaminated
ND - Non-Damaged

Code 3
REM - Removal necessary prior to Demo/Reno
NRN - No removal necessary, label ACM
REP - Repair & Label ACM, removal not necessary

10. I hereby certify that the foregoing statements are true and the information contained in this report is true. This certification is made subject to the penalties set forth in 18 PA. C.S. S4904 relating to unsworn falsification to authorities. Furthermore I certify that the inspection, sampling, and labeling requirements of section X of the Asbestos Control Regulation (ACR) have been met. The building owner has been notified of the ACR requirements and given a copy of this report. If the inspection has revealed ACM which will be disturbed by the proposed work or if it has revealed ACM in bad condition, the building owner has been notified to remove or repair the ACM in accordance with the ACR prior to renovation or demolition activity.

11. Signature of Certified Asbestos Investigator:	Date:	Signature of Building Owner:	Date:
	5/14/2021		

		Northeast High School	**School District of Philadelphia**								
		1601 Cottman Avenue, Philadelphia, PA 19111	**Asbestos Inspection Report (AIR)**								
		ULCS# 8020	Project Name: North East High School (UCLS No. 8020)								
		Year Built: 1957									
		Prepared By: Suzanne Shourds	Date: 5/14/2021								
		Certification Number: AIC-0624									
Elem en	***Floor***	***On-Site Room Name***	***Material Description***	***Type (Code 1)***	***Confirmed/Assumed/NAD/Non Suspect ACM***	***Amount of Material***	***SF LF EA***	***Condition (Code 2)***	***Action (Code 3)***	***Comments***	
1	1	Classroom 150	CMU Block Wall Paint	NF2	Confirmed	1840	SF	ND	REM		
1	1	Classroom 152A	CMU Block Wall Paint	NF2	Assumed	1840	SF	ND	REM		
1	1	Classroom 154	CMU Block Wall Paint	NF2	Confirmed	1840	SF	ND	REM		
1	1	Classroom 156	CMU Block Wall Paint	NF2	Assumed	1840	SF	ND	REM		
1	1	Classroom 158	CMU Block Wall Paint	NF2	Confirmed	1840	SF	DD	REM	Sporadic, Less than 5 LF of Damage	
1	1	Classroom 160	CMU Block Wall Paint	NF2	Confirmed	1840	SF	DD	REM	Sporadic, Less than 10LF of Damage	
1	2	Classroom 201	CMU Block Wall Paint	NF2	Confirmed	950	SF	ND	REM		

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order ID: 042110374
Customer ID: REAC59A
Customer PO:
Project ID:

Attn: Suzanne Shourds
REACT Environmental Prof Svcs Grp, Inc.
6901 Kingsessing Avenue
Suite 201
Philadelphia, PA 19142

Proj: North East High School

Phone: (215) 729-3220
Fax:
Collected: 5/ 3/2021
Received: 5/03/2021
Analyzed: 5/04/2021

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: G11-001 ***Lab Sample ID:*** **042110374-0001**
Sample Description: Hallway by Room G11 - Left of Door/Yellow Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: G11-002 ***Lab Sample ID:*** **042110374-0002**
Sample Description: Room G11 - Right of Door/Peach Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Peach	0.0%	100.0%	None Detected	

Client Sample ID: G11-003 ***Lab Sample ID:*** **042110374-0003**
Sample Description: Room G11 - Right of Door/Caulk

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Gray	0.0%	100.0%	None Detected	Sample appears to be plaster

Client Sample ID: G11-004 ***Lab Sample ID:*** **042110374-0004**
Sample Description: Room G11 - Right of Door/Peach Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/04/2021	Peach	0.0%	100.0%	None Detected	

Client Sample ID: G11-005 ***Lab Sample ID:*** **042110374-0005**
Sample Description: Hallway by Room G11 - Right of Door/Yellow Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: G11-006 ***Lab Sample ID:*** **042110374-0006**
Sample Description: Hallway by Room G11 - Above Locker/Yellow Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/04/2021	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: 100-001 ***Lab Sample ID:*** **042110374-0007**
Sample Description: Hallway by Room 100 - Right of Door/Beige Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Beige	0.0%	100.0%	None Detected	

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EMSL Order ID: 042110374
Customer ID: REAC59A
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 100-002 ***Lab Sample ID:*** **042110374-0008**
Sample Description: Hallway by Room 100 - Left of Door/Beige Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 100-003 ***Lab Sample ID:*** **042110374-0009**
Sample Description: Hallway by Room 100 - Above Locker/Beige Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/04/2021	Beige	0.0%	100.0%	None Detected	

Client Sample ID: 100-004 ***Lab Sample ID:*** **042110374-0010**
Sample Description: Closet in Room 100/Blue and Pink Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Blue	0.0%	100.0%	None Detected	

Client Sample ID: 201-001 ***Lab Sample ID:*** **042110374-0011**
Sample Description: Room 201 - Right of Door/Beige and Green Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Green/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 201-002 ***Lab Sample ID:*** **042110374-0012**
Sample Description: Room 201 - Left of Door/Beige and Green Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Green/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 201-003 ***Lab Sample ID:*** **042110374-0013**
Sample Description: Room 201 - Right of Door/Beige and Green Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/04/2021	Green/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 201-004 ***Lab Sample ID:*** **042110374-0014**
Sample Description: Room 201 - Right of Door/Cauk

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Gray	0.0%	100.0%	None Detected	Sample appears to be plaster

Client Sample ID: 252-001 ***Lab Sample ID:*** **042110374-0015**
Sample Description: Men's Room 252 - Across from Door/Beige Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Beige	0.0%	100.0%	**<1% Chrysotile**	
400 PLM Pt Ct	5/04/2021	Beige	0.0%	100.0%	**<0.25% Chrysotile**	

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EMSL Order ID: 042110374
Customer ID: REAC59A
Customer PO:
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 256-001-Paint ***Lab Sample ID:*** **042110374-0016**

Sample Description: Hallway outside Room 256 - Above Locker/Beige and White Paint

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	White/Beige	0.0%	100.0%	None Detected	

Client Sample ID: 256-001-Caulk ***Lab Sample ID:*** **042110374-0016A**

Sample Description: Hallway outside Room 256 - Above Locker/Caulk

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	5/03/2021	Beige	0.0%	100.0%	None Detected	

Analyst(s):

Laura Kantor	400 PLM Pt Ct (1)
Nancy Stalter	PLM (4)
Nicholas Montoya-Orozco	PLM (13)

Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Report amended: 05/04/202113:59:00 Replaces initial report from: 05/04/202107:27:31 Reason Code: Client-Additional Analysis

OrderID: 042110374

EMSL Analytical, Inc.
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Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (*Lab Use Only*): 042110374

Company : REPSG, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 6901 Kingsessing Avenue Suite 201	*Third Party Billing requires written authorization from third party*
City: Philadelphia **State/Province:** PA	**Zip/Postal Code:** 19142 **Country:** US
Report To (Name): Suzanne Shourds	**Telephone #:** 2157293220
Email Address: sshourds@repsg.com	**Fax #:** 2157291557 **Purchase Order:**
Project Name/Number: North East High School	**Please Provide Results:** ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken: PA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM – Bulk
☑ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

RECEIVED EMSL CINNAMINSON, NJ MAY 3 PM 8:01

☑ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 5-3-21

Samplers Name: Suzanne Shourds **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description
G11-001	1	Hallway by Rm G11, Left of Door	Yellow Paint
G11-002	2	Room G11, Right of Door	Peach Paint
G11-003		↓ Right of Door	Caulk
G11-004	2	↓ , ~~Left~~ Right of Door	Peach Paint
G11-005	1	Hallway by Rm G11, Right of Door	Yellow Paint
G11-006	1	↓ , Above Locker	Yellow Paint
100-001	3	Hallway by Rm 100, Right of Door	Beige Paint
100-002	3	↓ , Left of Door	↓ ↓
100-003	3	↓ , Above Locker	
100-004		Closet in Rm 100	Blue Particle Board

Client Sample # (s): **Total # of Samples:** 10

Relinquished (Client): DB **Date:** 5-3-21 **Time:** 1951

Received (Lab): **Date:** 5/3/21 **Time:** 800

Comments/Special Instructions:

16RP

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EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*: 042110374

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
201-001	4	Rm 201, Right of Door	Beige + Green Paint
201-002	4	, Left of Door	↓ ↓
201-003	4	, Right of Door	↓
201-004		↓ ↓	Caulk
252-001		Men's Rm 252, Across from Door	Beige ~~Paint~~ Paint
~~256-001~~		~~Boy's Rm 256~~	
256-001		Hallway outside Rm 256, Above locker	Beige + White Paint

RECEIVED
EMSL
CINNAMINSON, NJ
21 MAY -3 PM 3:01

*Comments/Special Instructions:

Page 2 of 2 pages

042110374

Christy, Sherry

From: Suzanne Shourds <SShourds@repsg.com>
Sent: Tuesday, May 4, 2021 10:54 AM
To: Christy, Sherry; EMSL Lab - Cinnaminson Asbestos
Subject: RE: EMSL report, COC for order(s) 042110374 (042110374 - North East High School)
Attachments: 042110374_001.pdf; 042110374_coc.pdf

[EXTERNAL E-MAIL]

Thank you! Can we please run sample 252-001 via 400 point count on a 6-hour TAT?

Regards,

Suzanne Shourds
Senior Project Manager

REPSG
React Environmental
Professional Services Group, Inc.

6901 Kingsessing Avenue, Suite 201
P.O. Box 5377
Philadelphia, PA 19142-0377
Phone: 215-729-3220 Ext. 378
Cell: 267-688-7311
Fax: 215-729-1557
Email: sshourds@repsg.com
Website: http://www.repsg.com
Facebook, **Instagram**, and **LinkedIn**

From: EMSL (Cinnaminson) <cinnasblab@EMSL.com>
Sent: Tuesday, May 4, 2021 9:09 AM
To: Suzanne Shourds <SShourds@repsg.com>
Subject: EMSL report, COC for order(s) 042110374 (042110374 - North East High School)

EMSL Analytical, Inc.

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Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042111132
Customer ID:	REAC51A
Customer PO:	
Project ID:	

Attention:	Suzanne Shourds	**Phone:**	(215) 729-3224
	Hepaco React, LLC	**Fax:**	(215) 729-8678
	6901 Kingsessing Avenue	**Received Date:**	05/12/2021 9:30 AM
	First Floor	**Analysis Date:**	05/12/2021 - 05/13/2021
	Philadelphia, PA 19142	**Collected Date:**	05/11/2021
Project:	Northeast High School - 12654.240.01		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
GH-001 *042111132-0001*	Ground Floor Hallway by Room 011 Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-002 *042111132-0002*	Ground Floor Hallway by Room 9A Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-003 *042111132-0003*	Ground Floor Hallway between Room 7 and 6 Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-004 *042111132-0004*	Ground Floor Hallway by Room 5 Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-005 *042111132-0005*	Ground Floor Hallway by Room 4 and 3 Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-006 *042111132-0006*	Ground Floor Hallway by Room 1 Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-007 *042111132-0007*	Ground Floor Hallway across from Room 24 Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-008 *042111132-0008*	Ground Floor Hallway across from M Stairs Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-009 *042111132-0009*	Ground Floor Hallway by Room 22a Upper Wall - White to Yellow to Pink paint	White/Yellow/Pink Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
GH-010 *042111132-0010*	Ground Floor Hallway by Storage Room 51 above Locker 24 Lower Wall - Yellow to Pink Paint	Yellow/Pink Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2021 19:38:38

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http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 042111132
Customer ID: REAC51A
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
GH-011 *042111132-0011*	Ground Floor Hallway by Room 23 Lower Wall - Yellow to Pink Paint	Yellow/Pink Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
GH-012 *042111132-0012*	Ground Floor Hallway by Room 22a Lower Wall - Yellow to Pink Paint	Yellow/Pink Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
GH-013 *042111132-0013*	Ground Floor Hallway by D Stairs Lower Wall - Yellow to Pink Paint	Yellow/Pink Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
GH-014 *042111132-0014*	Ground Floor Hallway by Womens Room Lower Wall - Yellow to Pink Paint	Yellow/Pink Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
GH-015 *042111132-0015*	Ground Floor Hallway by Room 25 Lower Wall - Yellow to Pink Paint	Yellow/Pink Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
GC-001 *042111132-0016*	Grround Floor Cafeteria Walls and Columns - Blue to Yellow Paint	Blue/Yellow Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
GC-002 *042111132-0017*	Grround Floor Cafeteria Walls and Columns - Blue to Yellow Paint	Blue/Yellow Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
GC-003 *042111132-0018*	Grround Floor Cafeteria Walls and Columns - Blue to Yellow Paint	Blue/Yellow Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
G8-001 *042111132-0019*	Ground Floor Room 8 Walls - Peach to Green Paint	Green/Peach Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected
G7-002 *042111132-0020*	Ground Floor Room 7 Walls - Peach to Green Paint	Green/Peach Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected
G5-003 *042111132-0021*	Ground Floor Room 5 Walls - Peach to Green Paint	Green/Peach Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected
G4-004 *042111132-0022*	Ground Floor Room 4 Walls - Peach to Green Paint	Green/Peach Non-Fibrous Homogeneous	HA: 4	100% Non-fibrous (Other)	None Detected
G2-005 *042111132-0023*	Ground Floor Room 2 Walls - Peach to Green Paint	Green/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2021 19:38:38

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http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 042111132
Customer ID: REAC51A
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
			HA: 4		
G9-006 *042111132-0024*	Ground Floor Room 9 Walls - Peach to Green Paint	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 4		
G6-007 *042111132-0025*	Ground Floor Room 6 Walls - Peach to Green Paint	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 4		
GBR-001 *042111132-0026*	Ground Floor Boys Room by Cafeteria Walls - Yellow to Tan Paint	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 5		
G22A-001 *042111132-0027*	Ground Floor Room 22A Walls - Peach to Green Paint	White/Pink/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 6		
G14-001 *042111132-0028*	Ground Floor Room 14 Walls - Peach, Yellow and Green Paint	Yellow/Green/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 7		
G15-001 *042111132-0029*	Ground Floor Room 15 Walls - Peach, Yellow and Green Paint	Yellow/Pink/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 8		
GH-016 *042111132-0030*	Ground Floor Hallway by Room 16B Walls - Blue on Yellow on White Paint	White/Blue/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		
GH-017 *042111132-0031*	Ground Floor Hallway by Room 14A Walls - Blue on Yellow on White Paint	White/Blue/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		
GH-018 *042111132-0032*	Ground Floor Hallway by Room 14 Walls - Blue on Yellow on White Paint	White/Blue/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		
G16B-01 *042111132-0033*	Ground Floor Room 16B Walls - Peach, Yellow and Green Paint	Yellow/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 10		
GH-019 *042111132-0034*	Ground Floor Hallway near Room 19B Walls - Blue on Yellow on White Paint	Blue/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		
GH-020 *042111132-0035*	Ground Floor Hallway near Room 18D Walls - Blue on Yellow on White Paint	White/Blue/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		

Initial report from: 05/13/2021 19:38:38

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 042111132
Customer ID: REAC51A
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
119-005 *042111132-0036*	1st Floor Room 119 Lower Wall - Peach on Yellow on White and green paint	White/Yellow/Green Non-Fibrous Homogeneous	HA: 9	100% Non-fibrous (Other)	None Detected
1H-001 *042111132-0037*	1st Floor Hallway by Room 119 Lower Wall - Blue on White on Pink Paint	White/Blue/Pink Non-Fibrous Homogeneous	HA: 11	100% Non-fibrous (Other)	None Detected
1H-002 *042111132-0038*	1st Floor Hallway across from Room 127 Lower Wall - Blue on White on Pink Paint	White/Blue/Pink Non-Fibrous Homogeneous	HA: 12	100% Non-fibrous (Other)	None Detected
1H-003 *042111132-0039*	1st Floor Hallway across from Room 133 Lower Wall - Blue on White on Pink Paint	White/Blue/Pink Non-Fibrous Homogeneous	HA: 12	100% Non-fibrous (Other)	None Detected
1H-004 *042111132-0040*	1st Floor Hallway next to Stage Lower Wall - Blue on White on Pink Paint	White/Blue/Pink Non-Fibrous Homogeneous	HA: 12	100% Non-fibrous (Other)	None Detected
1H-005 *042111132-0041*	1st Floor Hallway next to J Stairs Lower Wall - Blue on White on Pink Paint	White/Blue/Pink Non-Fibrous Homogeneous	HA: 12	100% Non-fibrous (Other)	None Detected
1BR-001 *042111132-0042*	1st Floor Boys Room next to J Stairs Lower Wall - Yellow and Tan Paint	Tan/Yellow Non-Fibrous Homogeneous	HA: 12	100% Non-fibrous (Other)	None Detected
1H-006 *042111132-0043*	1st Floor Hallway across from Room 115 Lower Wall - Beige on Yellow on White on pink Paint	White/Yellow/Beige Non-Fibrous Homogeneous	HA: 13	100% Non-fibrous (Other)	None Detected
1H-007 *042111132-0044*	1st Floor Hallway next to Room 111 Lower Wall - Beige on Yellow on White on pink Paint	White/Yellow/Beige Non-Fibrous Homogeneous	HA: 14	100% Non-fibrous (Other)	None Detected
1H-008 *042111132-0045*	1st Floor Hallway next to Room 109 Lower Wall - Beige on Yellow on White on pink Paint	White/Yellow/Beige Non-Fibrous Homogeneous	HA: 14	100% Non-fibrous (Other)	None Detected
1H-009 *042111132-0046*	1st Floor Hallway next to Room 108 Lower Wall - Beige on Yellow on White on pink Paint	White/Yellow/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2021 19:38:38

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http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 042111132
Customer ID: REAC51A
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
			HA: 14		
1H-010 *042111132-0047*	1st Floor Hallway next to Room 110 Lower Wall - Beige on Yellow on White on pink Paint	White/Yellow/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 14		
1H-011 *042111132-0048*	1st Floor Hallway across from Room 178 near Exit Door Lower Wall - Beige on Yellow on White on pink Paint	White/Yellow/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 14		
150-008 *042111132-0049*	1st Floor Room 150 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
			HA: 11		
154-009 *042111132-0050*	1st Floor Room 154 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
			HA: 11		
158-001 *042111132-0051*	1st Floor Room 158 Wall - Electric Blue Paint	Blue Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: 16		
160-002 *042111132-0052*	1st Floor Room 160 Wall - Electric Blue Paint				Positive Stop (Not Analyzed)
			HA: 16		
1H-012 *042111132-0053*	1st Floor Hallway next to A Stairs - Priple-blue on White Paint	White/Blue/Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 17		
1H-013 *042111132-0054*	1st Floor Hallway next to Room 132 Wall - Priple-blue on White Paint	White/Blue/Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 17		
1H-014 *042111132-0055*	1st Floor Hallway Next to Room 126 Wall - Priple-blue on White Paint	White/Blue/Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 17		
126-001 *042111132-0056*	1st Floor Room 126 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 11		
140-002 *042111132-0057*	1st Floor Room 140 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 11		

Initial report from: 05/13/2021 19:38:38

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 042111132
Customer ID: REAC51A
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
138-001 *042111132-0058*	1st Floor Room 138 Wall - Blue on Yellow Paint	Blue/Yellow Non-Fibrous Homogeneous	HA: 18	100% Non-fibrous (Other)	None Detected
143-001 *042111132-0059*	1st Floor Room 143 Wall - Yellow Cream on Green paint	Yellow/Green/Beige Non-Fibrous Homogeneous	HA: 15	100% Non-fibrous (Other)	None Detected
141-002 *042111132-0060*	1st Floor Room 141 Wall - Yellow Cream on Green paint	Yellow/Green/Beige Non-Fibrous Homogeneous	HA: 15	100% Non-fibrous (Other)	None Detected
139-003 *042111132-0061*	1st Floor Room 139 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Green Non-Fibrous Homogeneous	HA: 11	100% Non-fibrous (Other)	None Detected
127-004 *042111132-0062*	1st Floor Room 127 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Green Non-Fibrous Homogeneous	HA: 11	100% Non-fibrous (Other)	None Detected
129-002 *042111132-0063*	1st Floor Room 129 Wall - Blue on Yellow Paint	Blue/Yellow Non-Fibrous Homogeneous	HA: 18	100% Non-fibrous (Other)	None Detected
123-006 *042111132-0064*	1st Floor Room 123 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Green Non-Fibrous Homogeneous	HA: 11	100% Non-fibrous (Other)	None Detected
113-007 *042111132-0065*	1st Floor Room 113 Wall - Peach on Yellow on White and Green Paint	White/Yellow/Peach Non-Fibrous Homogeneous	HA: 11	100% Non-fibrous (Other)	None Detected
134-003 *042111132-0066*	1st Floor Room 143 Wall - Blue on Yellow Paint	Blue/Yellow Non-Fibrous Homogeneous	HA: 18	100% Non-fibrous (Other)	None Detected
1GR-002 *042111132-0067*	1st Floor Girls Room near Room 138 Wall - Yellow Tan Paint	Tan/Yellow Non-Fibrous Homogeneous	HA: 13	100% Non-fibrous (Other)	None Detected
143-003 *042111132-0068*	1st Floor Room 143 Wall - Yellow Cream on Green Paint	Yellow/Green/Beige Non-Fibrous Homogeneous	HA: 15	100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2021 19:38:38

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042111132
Customer ID:	REAC51A
Customer PO:	
Project ID:	

Analyst(s)

Andrew Borsos (17)
Alex Francois (11)
John Witcraft (25)
Mark Shuts (7)
Nicholas Montoya-Orozco (7)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Initial report from: 05/13/2021 19:38:38

OrderID: 042111132

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Material Chain of Custody

RECEIVED EMSL CINNAMINSON, NJ
21 MAY 12 AM 9:27

EMSL Order Number *(Lab Use Only)*: 042111132

Company: REPSG, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 6901 Kingsessing Avenue Suite 201	*Third Party Billing requires written authorization from third party*
City: Philadelphia **State/Province:** PA	**Zip/Postal Code:** 19142 **Country:** US
Report To (Name): Suzanne Shourds	**Telephone #:** 2157293220
Email Address: sshourds@repsg.com	**Fax #:** 2157291557 **Purchase Order:**
Project Name/Number: North East HS / 12654.240.01	**Please Provide Results:** ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken: PA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☑ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PLM - Bulk (reporting limit)	TEM – Bulk
☑ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

☑ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 5/11/2021

Samplers Name: Suzanne Shourds **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description
		SEE ATTACHED PAGES	

Client Sample # (s): **Total # of Samples:** 68

Relinquished (Client): **Date:** 5-12-21 **Time:** 0830

Received (Lab): WI **Date:** 5/12/21 **Time:** 930

Comments/Special Instructions:

REVISED 5/12/21 3:25 PM SC

Page 1 Of 6

042111132

Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/11/2021; 1500		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
GH-001		White to Yellow to Pink Paint	Ground Floor, Hallway by Room 011 Upper wall	HA1	
GH-002		White to Yellow to Pink Paint	Ground Floor, Hallway By Room 9A Upper wall	HA1	
GH-003		White to Yellow to Pink Paint	Ground Floor, Hallway Between Room 7 and 6 Upper wall	HA1	
GH-004		White to Yellow to Pink Paint	Ground Floor, Hallway by Room 5 Upper wall	HA1	
GH-005		White to Yellow to Pink Paint	Ground Floor, Hallway Between 4 and 3 Upper wall	HA1	
GH-006		White to Yellow to Pink Paint	Ground Floor, Hallway by Room 1 Upper wall	HA1	
GH-007		White to Yellow to Pink Paint	Ground Floor, hallway across from Room 24 Upper wall	HA1	
GH-008		White to Yellow to Pink Paint	Ground Floor, Hallway across from M Stairs Upper wall	HA1	
GH-009		White to Yellow to Pink Paint	Ground Floor, Hallway by Room 22a Upper wall	HA1	
GH-010		Yellow to Pink Paint	Ground Floor, Hallway by storage Room 51 above locker a1-24 Lower wall	HA2	
GH-011		Yellow to Pink Paint	Ground Floor, Hallway by Room 23 Lower wall	HA2	
GH-012		Yellow to Pink Paint	Ground Floor, Hallway by Room 22a Lower wall	HA2	
GH-013		Yellow to Pink Paint	Ground Floor, Hallway by D Stairs Lower wall	HA2	
GH-014		Yellow to Pink Paint	Ground Floor, Hallway by women's rm Lower wall	HA2	
GH-015		Yellow to Pink Paint	Ground Floor, Hallway by Room 25 Lower wall	HA2	
GC-001		Blue to Yellow Paint	Ground Floor, Cafeteria Walls and Columns	HA3	

042111132 RECEIVED EMSL CINNAMINSON, NJ 21 MAY 12 PM 3:55

Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/11/2021; 1500		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
GC-002		Blue to Yellow Paint	Ground Floor, Cafeteria Walls and Columns	HA3	
GC-003		Blue to Yellow Paint	Ground Floor, Cafeteria Walls and Columns	HA3	
G8-001		Peach to green Paint	Ground Floor, Room 8 Walls	HA4	
G7-002		Peach to green Paint	Ground Floor, Room 7 Walls	HA4	
G5-003		Peach to green Paint	Ground Floor, Room 5 Walls	HA4	
G4-004		Peach to green Paint	Ground Floor, Room 4 Walls	HA4	
G2-005		Peach to green Paint	Ground Floor, Room 2 Walls	HA4	
G9-006		Peach to green Paint	Ground Floor, Room 9 Walls	HA4	
G6-007		Peach to green Paint	Ground Floor, Room 6 Walls	HA4	
GBR-001		Yellow-Tan Paint	Ground Floor, Boys Room by Cafeteria Walls	HA5	
G22A-001		Peach to green Paint	Ground Floor, Room 22A Walls	HA4	
G14-001		Peach, yellow, & green Paint	Ground Floor, Room 14 Walls	HA6	
G15-001		Peach, yellow, & green Paint	Ground Floor, Room 15 Walls	HA6	
GH-016		Blue on yellow on white Paint	Ground Floor, Hallway by Room 16B Walls	HA9	
GH-017		Blue on yellow on white Paint	Ground Floor, Hallway by Room 14A Walls	HA9	
GH-018		Blue on yellow on white Paint	Ground Floor, Hallway by Room 14 Walls	HA9	

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Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/11/2021; 1500		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
G16B-001		Peach, yellow, & green Paint	Ground Floor, Room 16B Walls	HA6	
GH-019		Blue on yellow on white Paint	Ground Floor, Hallway near Room 19B Walls	HA9	
GH-020		Blue on yellow on white Paint	Ground Floor, Hallway near Near 18D Walls	HA9	
119-005		Peach on yellow on white & Green Paint	1st Floor, Room 119 Lower wall	HA11	
1H-001		Blue on white on pink Paint	1st Floor, Hallway by Room 119 Lower wall	HA12	
1H-002		Blue on white on pink Paint	1st Floor, Hallway across from Room 127 Lower wall	HA12	
1H-003		Blue on white on pink Paint	1st Floor, Hallway across from Room 133 Lower wall	HA12	
1H-004		Blue on white on pink Paint	1st Floor, Hallway next to Stage Lower wall	HA12	
1H-005		Blue on white on pink Paint	1st Floor, Hallway next to J Stairs Lower wall	HA12	
1BR-001		Yellow-Tan Paint	1st Floor, Boys Room next to J Stairs Lower wall	HA13	
1H-006		Beige on yellow on white on pink Paint	1st Floor, Hallway across from Room 115 Lower wall	HA14	
1H-007		Beige on yellow on white on pink Paint	1st Floor, Hallway next to Room 111 Lower wall	HA14	
1H-008		Beige on yellow on white on pink Paint	1st Floor, Hallway next to Room 109 Lower wall	HA14	
1H-009		Beige on yellow on white on pink Paint	1st Floor, Hallway next to Room 108 Lower wall	HA14	
1H-010		Beige on yellow on white on pink Paint	1st Floor, Hallway next to Room 110 Lower wall	HA14	
1H-011		Beige on yellow on white on pink Paint	1st Floor, Hallway across from Room 178, near exit door Lower wall	HA14	

042111132

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EMSL
CINNAMINSON, NJ
21 MAY 12 PM 3:55

Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/11/2021; 1500		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
150-008		Peach on yellow on white & Green Paint	1st Floor, Room 150 Wall	HA11	
154-009		Peach on yellow on white & Green Paint	1st Floor, Room 154 Wall	HA11	
158-001		Electric blue Paint	1st Floor, Room 158 Wall	HA16	
160-002		Electric blue Paint	1st Floor, Room 160 Wall	HA16	
1H-012		Purple-blue on white Paint	1st Floor, Hallway next to A Stairs Wall	HA17	
1H-013		Purple-blue on white Paint	1st Floor, Hallway next to Room 132 Wall	HA17	
1H-014		Purple-blue on white Paint	1st Floor, Hallway next to Room 126 Wall	HA17	
126-001		Peach on yellow on white & Green Paint	1st Floor, Room 126 Wall	HA11	
140-002		Peach on yellow on white & Green Paint	1st Floor, Room 140 Wall	HA11	
138-001		Blue on yellow Paint	1st Floor, Room 138 Wall	HA18	
143-001		Yellow cream on green Paint	1st Floor, Room 143 Wall	HA15	
141-002		Yellow cream on green Paint	1st Floor, Room 141 Wall	HA15	
139-003		Peach on yellow on white & Green Paint	1st Floor, Room 139 Wall	HA11	
127-004		Peach on yellow on white & Green Paint	1st Floor, Room 127 Wall	HA11	
129-002		Blue on yellow Paint	1st Floor, Room 129 Wall	HA18	
123-006		Peach on yellow on white & Green Paint	1st Floor, Room 123 Wall	HA11	

042111132

Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/11/2021; 1500		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
113-007		Peach on yellow on white & Green Paint	1st Floor, Room 113 Wall	HA11	
134-003		Blue on yellow Paint	1st Floor, Room 143 Wall	HA18	
1GR-002		Yellow-Tan Paint	1st Floor, Girls Room near Room 138 Wall	HA13	
143-003		Yellow cream on green Paint	1st Floor, Room 143 Wall	HA15	
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EMSL Analytical, Inc.

5221 Militia Hill Road Plymouth Meeting, PA 19462

Tel/Fax: (610) 828-3102 / (610) 828-3122

http://www.EMSL.com / plymouthmeetinglab@emsl.com

EMSL Order:	182101669
Customer ID:	REAC59A
Customer PO:	
Project ID:	

Attention:	Suzanne Shourds	**Phone:**	(215) 729-3220
	REACT Environmental Prof Svcs Grp, Inc.	**Fax:**	
	6901 Kingsessing Avenue	**Received Date:**	05/12/2021 4:45 PM
	Suite 201	**Analysis Date:**	05/13/2021
	Philadelphia, PA 19142	**Collected Date:**	
Project:	North East HS / 12654.01		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
221B-001 *182101669-0001*	2nd Floor, Room 221B Wall - Peach on Green With Pink Paint	Tan/White/Green Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
225-002 *182101669-0002*	2nd Floor, Room 225 Wall - Peach on Green With Pink Paint	Tan/White/Green Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
227B-003 *182101669-0003*	2nd Floor, Room 227B Wall - Peach on Green With Pink Paint	Tan/White/Pink Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
229B-04 *182101669-0004*	2nd Floor, Room 229B Wall - Peach on Green With Pink Paint	Tan/Pink Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
235-005 *182101669-0005*	2nd Floor, Room 235 Wall - Peach on Green With Pink Paint	Tan/Pink Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
242-006 *182101669-0006*	2nd Floor, Room 242 Wall - Peach on Green With Pink Paint	Tan/Pink/Green Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
206-007 *182101669-0007*	2nd Floor, Room 206 Wall - Peach on Green With Pink Paint	Tan/White Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
207-008 *182101669-0008*	2nd Floor, Room 207 Wall - Peach on Green With Pink Paint	Tan/White/Green Non-Fibrous Homogeneous	HA: 19	100% Non-fibrous (Other)	None Detected
2H-001 *182101669-0009*	2nd Floor, Hallway by Room 219A Wall - Grey-Cream and White Paint	Tan/White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2BR-001 *182101669-0010*	2nd Floor, Boys Room Near J Stairs Wall - Grey-Cream with Yellow and White Paint	Tan/White Non-Fibrous Homogeneous	HA: 21	100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2021 13:00:23

EMSL Analytical, Inc.
5221 Militia Hill Road Plymouth Meeting, PA 19462
Tel/Fax: (610) 828-3102 / (610) 828-3122
http://www.EMSL.com / plymouthmeetinglab@emsl.com

EMSL Order: 182101669
Customer ID: REAC59A
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2H-002 *182101669-0011*	2nd Floor, Hallway by Room 217 Wall - Grey-Cream and White Paint	Tan/White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2H-003 *182101669-0012*	2nd Floor, Hallway Across From Room 213 Wall - Grey-Cream and White Paint	Tan/White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2H-004 *182101669-0013*	2nd Floor, Hallway by Room 207 Wall - Grey-Cream and White Paint	White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2H-005 *182101669-0014*	2nd Floor, Hallway by Room 218 Wall - Grey-Cream and White Paint	White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2H-006 *182101669-0015*	2nd Floor, Hallway by Room 231 Wall - Grey-Cream and White Paint	White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2H-007 *182101669-0016*	2nd Floor, Hallway by Room 226A Wall - Grey-Cream and White Paint	Tan/White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
2H-008 *182101669-0017*	2nd Floor, Hallway by Room 201 Wall - Grey-Cream and White Paint	White Non-Fibrous Homogeneous	HA: 20	100% Non-fibrous (Other)	None Detected
1BR-003 *182101669-0018*	1st Floor, Boys Room Across From Main Office Wall - Yellow - Tan Paint	White Non-Fibrous Homogeneous	HA: 13	100% Non-fibrous (Other)	None Detected
GBR-002 *182101669-0019*	Ground Floor, Boys Room Near J Stairs Wall - Yellow - Tan Paint	Tan/White Non-Fibrous Homogeneous	HA: 5	100% Non-fibrous (Other)	None Detected
GWR-003 *182101669-0020*	Ground Floor, Womens Room Near D Stairs Wall - Yellow - Tan Paint	Tan/White Non-Fibrous Homogeneous	HA: 5	100% Non-fibrous (Other)	None Detected

Initial report from: 05/13/2021 13:00:23

EMSL Analytical, Inc.
5221 Militia Hill Road Plymouth Meeting, PA 19462
Tel/Fax: (610) 828-3102 / (610) 828-3122
http://www.EMSL.com / plymouthmeetinglab@emsl.com

EMSL Order:	182101669
Customer ID:	REAC59A
Customer PO:	
Project ID:	

Analyst(s)
Adam Gart (20)

Kevin Ream, Laboratory Manager
or Other Approved Signatory

Initial report from: 05/13/2021 13:00:23

OrderID: 182101669

EMSL ANALYTICAL, INC.
LABORATORY · PRODUCTS · TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only)*:

182101669

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company : REPSG, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 6901 Kingsessing Avenue Suite 201	*Third Party Billing requires written authorization from third party*
City: Philadelphia **State/Province:** PA	**Zip/Postal Code:** 19142 **Country:** US
Report To (Name): Suzanne Shourds	**Telephone #:** 2157293220
Email Address: sshourds@repsg.com	**Fax #:** 2157291557 **Purchase Order:**
Project Name/Number: North East HS / 12654.240.01	**Please Provide Results:** ☐ Fax ☑ Email ☐ Mail
U.S. State Samples Taken: PA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ■ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PLM - Bulk (reporting limit)	TEM – Bulk
■ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 (TEM)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1 (friable in NY)	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB (non-friable-NY)	**Other**
☐ OSHA ID-191 Modified	☐
☐ Standard Addition Method	

■ **Check For Positive Stop – Clearly Identify Homogenous Group** **Date Sampled:** 5/12/2021

Samplers Name: Quanda Beck **Samplers Signature:** Q Beck

Sample #	HA #	Sample Location	Material Description
		SEE ATTACHED PAGES	

Client Sample # (s): **Total # of Samples:**

Relinquished (Client): Q Beck **Date:** 5/12/2021 **Time:** 4:30pm

Received (Lab): **Date:** 5/12/21 **Time:** 4:45

Comments/Special Instructions:

182101669

Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/12/2021; 1000		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
221B-001		Peach on green with pink Paint	2nd Floor, Room 221B Wall	HA19	
225-002		Peach on green with pink Paint	2nd Floor, Room 225 Wall	HA19	
227B-003		Peach on green with pink Paint	2nd Floor, Room 227B Wall	HA19	
229B-004		Peach on green with pink Paint	2nd Floor, Room 229B Wall	HA19	
235-005		Peach on green with pink Paint	2nd Floor, Room 235 Wall	HA19	
242-006		Peach on green with pink Paint	2nd Floor, Room 242 Wall	HA19	
206-007		Peach on green with pink Paint	2nd Floor, Room 206 Wall	HA19	
207-008		Peach on green with pink Paint	2nd Floor, Room 207 Wall	HA19	
2H-001		Grey-Cream and White Paint	2nd Floor, Hallway by Room 219A Wall	HA20	
2BR-001		Grey-Cream with Yellow and White Paint	2nd Floor, Boys Room near J stairs Wall	HA21	
2H-002		Grey-Cream and White Paint	2nd Floor, Hallway by Room 217 Wall	HA20	
2H-003		Grey-Cream and White Paint	2nd Floor, Hallway across from Room 213 Wall	HA20	
2H-004		Grey-Cream and White Paint	2nd Floor, Hallway by Room 207 Wall	HA20	
2H-005		Grey-Cream and White Paint	2nd Floor, Hallway by Room 218 Wall	HA20	
2H-006		Grey-Cream and White Paint	2nd Floor, Hallway by Room 231 Wall	HA20	
2H-007		Grey-Cream and White Paint	2nd Floor, Hallway by Room 226A Wall	HA20	

182101669

Sample Log –Bulk Asbestos

Client:	REPSG, Inc.		**Project Name:**		North East High School
Sampling Date/Time:	5/12/2021; 1000		**Project Number:**		12654.240.01

Bulk Asbestos Sample Log

Client Sample #	Lab ID #	Material Description	Sample Location	HA	Notes
2H-008		Grey-Cream and White Paint	2nd Floor, Hallway by Room 201 Wall	HA20	
1BR-003		Yellow-Tan Paint	1st Floor, Boys Room across from Main office Wall	HA13	
GBR-002		Yellow-Tan Paint	Ground Floor, Boys Room near J Stairs Wall	HA5	
GWR-003		Yellow-Tan Paint	Ground Floor, Women's Room near D Stairs Wall	HA5	

REPSG
React Environmental
Professional Services Group, Inc.

May 20, 2021

The School District of Philadelphia
Office of Capital Programs
440 North Broad Street
Philadelphia, PA 19130
Attn: Mr. Kevin Meldrum
kmeldrum@philasd.org

RE: Results of Lead in Paint Testing via XRF Method
Capital Project – Air Conditioning System Upgrade
North East High School (ULCS No. 8020)
1601 Cottman Avenue
Philadelphia, PA 19111
REPSG Project Number 12654.240.01

Dear Mr. Meldrum

React Environmental Professional Services Group, Inc., (REPSG) has performed lead in paint testing at "North East High School (ULCS No. 8020)" located at 1601 Cottman Avenue in the City of Philadelphia, Pennsylvania (the subject property).

This survey was conducted using X-Ray Fluorescence (XRF) methodology. The scope of this investigation was limited to building components at accessible areas of the subject property structure within the scope of planned air conditioning system upgrades. Components included within this scope of work included select walls and ceilings covered in at least one coat of visible paint that were within the planned installation scope of work. This letter report summarizes the sampling activities performed and the results of the XRF analyses.

Lead-based paint (LBP) is defined by the US Environmental Protection Agency (EPA) and the US Department of Housing and Urban Development (HUD) as those paint samples that have been shown by Flame Atomic Absorption Spectrometry (AAS) analysis to contain greater than 0.5% lead concentration by weight, or 1.0 mg/cm2 or greater when using X-Ray Fluorescence (XRF) technology. The City of Philadelphia Department of Public Health (DoH) defines LBP as those paint samples that contain lead content of 0.7 mg/cm2 or greater when using XRF technology. The Occupational Safety and Health Administration (OSHA) considers paint that contains lead at concentrations above 0.1 mg/cm2 when using XRF technology to be lead-containing paint (LCP) for construction worker exposure purposes.

P.O. Box 5377
6901 Kingsessing Avenue, Suite 201
Philadelphia, PA 19142-0377

Office: 215.729.3220
Fax: 215.729.1557
www.repsg.com

The XRF testing was conducted using methodology within the guidelines set forth in HUD regulations 24 CFR 35. These XRF sampling services were conducted by Ms. Suzanne Shourds, an EPA-Certified and Pennsylvania Licensed Lead Inspector/Risk Assessor and X-Ray Fluorescence (XRF) technician, and Mr. Sherif Mohamed, Mr. James Arbuckle, and Ms. Shalaunda Gourdine, a trained XRF technicians.

For the purposes of this assessment "Wall 1 (W1)" is defined as the wall that the main entry door to the space is located on, with "Wall 2 (W2)," "Wall 3 (W3)," and "Wall 4 (W4)" being located in a clockwise fashion from the door within the room. In the majority of classrooms, this typically means that W3 is the wall where the window systems are located. Based on conversations that REPSG had with both SDP staff as well as on-site building engineering staff, it was assumed that the necessary electrical work needed to support the air conditioning upgrades would be run through the hallways along the upper wall systems, and then would be fed into the classrooms at W1 via proposed penetrations in the concrete masonry unit (CMU) wall systems.

The results of the XRF testing that indicate the presence of LBP at the subject property is summarized on **Table 1**.

REPSG
React Environmental
Professional Services Group, Inc.

Table 1: Summary Results of XRF Results for LBP at the Subject Property

Building Element	Floor	Space #	Space Type	On-Site Room Name	Component	Substrate Material	Color	Description of Damage	Damage Quantity (LF)	XRF Reading (mg/cm2)	XRF (positive/ negative)
1	G	44	Cafeteria (Dining Area)	Cafeteria	W1	Ceramic Tile	Gray	Cracking	1	>1	Positive[1]
1	1	H17	Circulation (Hallway)	Hallway between Classroom 109 and Classroom 111	W4	Concrete	Beige & White	Chipping	10	1	Positive
1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	W1	Concrete	Beige & White	Chipping	10	1.07	Positive
1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	W2	Concrete	Beige & White	Chipping	10	1	Positive
1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	W3	Concrete	Beige & White	Chipping	10	1.25	Positive
1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	W4	Concrete	Beige & White	Chipping	10	1	Positive
1	1	122	Art - Senior High	Classroom 122	W2	Concrete	Multi (Paint Splatters)	None	0	1	Positive[2]

[1] This component is outside the scope of planned renovations. In addition, based on the component substrate (ceramic tile) the potential exists that the source of lead identified via the XRF testing is within the substrate material (ceramic tile) and not within the paint present on the surface.
[2] The part of this component that tested positive for lead is located within an art classroom, and had an area of paint splatter located on the wall above the sink used for cleaning art supplies. All other locations along the same component wall surface within this classroom assessed via XRF were negative for lead.

P.O. Box 5377
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Philadelphia, PA 19142-0377

Office: 215.729.3220
Fax: 215.729.1557
www.repsg.com

Building Element	Floor	Space #	Space Type	On-Site Room Name	Component	Substrate Material	Color	Description of Damage	Damage Quantity (LF)	XRF Reading (mg/cm2)	XRF (positive/ negative)
1	1	H14C	Circulation (Hallway)	Hallway from Classroom 115 to Stairwell Q	W4	Concrete	Beige & White	Chipping	10	1	Positive
1	2	H26	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Library	W2	Concrete	Grey-Cream and White	None	0	1	Positive
1	2	H26	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Library	W3	Concrete	Grey-Cream and White	None	0	1	Positive
1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Classroom 236	W3	Concrete	Grey-Cream and White	None	0	1	Positive
1	2	201C	Student Restrooms - Male (4-12)	Boy's Restroom adjacent to Classroom 200	W1	Concrete	Beige & White	Cracking	1	1.11	Positive
1	2	201C	Student Restrooms - Male (4-12)	Boy's Restroom adjacent to Classroom 200	W2	Concrete	Beige & White	Cracking	1	1.21	Positive
1	2	201C	Student Restrooms - Male (4-12)	Boy's Restroom adjacent to Classroom 200	W3	Concrete	Beige & White	None	0	1.04	Positive

REPSG
React Environmental
Professional Services Group, Inc.

A complete copy of the results along with notated diagrams indicating the approximate locations of LBP covered components at the subject property are included attachments to this letter.

If you have any further questions or comments, please do not hesitate to contact our office.

Sincerely,
REPSG Environmental Professional Services Group, Inc.

Suzanne Shourds
Senior Project Manager
PA Risk Assessor License No.: 005966

Attachments

P.O. Box 5377
6901 Kingsessing Avenue, Suite 201
Philadelphia, PA 19142-0377

Office: 215.729.3220
Fax: 215.729.1557
www.repsg.com

THE SCHOOL DISTRICT OF PHILADELPHIA

NORTHEAST HIGH SCHOOL

1601 COTTMAN AVE, PHILADELPHIA, PA 19104

NORTHEAST HIGH SCHOOL AIR CONDITIONING UPGRADE

100% Design Submission: April 30, 2021

OWNER

SCHOOL DISTRICT OF PHILADELPHIA
440 North Broad
Philadelphia, PA 19130-4015
Phone: 215-400-4740
Fax: 215-400-4731
Email: nward@philasd.org
Attn: Nicole Ward, Design Manager
Office of Capital Programs
www.philasd.org

ENGINEER OF RECORD

GANNETT FLEMING, INC.
1010 Adams Avenue
Valley Forge, PA 19403
Phone: 610.650.8156
Fax: 610.650.8190
Email: bweisser@gfnet.com
Attn: Brian M. Weisser, P.E.

ZONING DATA

EDUCATIONAL
OCCUPANCY

BUILDING DATA

ORIGINAL CONSTRUCTION: 1957
MAJOR RENOVATIONS: 1970 - SPARC WING

GROUND FLOOR:	105,662 SF
FIRST FLOOR:	158,490 SF
SECOND FLOOR:	88,153 SF
TOTAL AREA:	352,305 SF

UNSPRINKLERED

SUBCONTRACTOR RESPONSIBILITIES

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF THE ENVIRONMENTAL REMEDIATION CONTRACTOR AND EXECUTION OF ALL ASBESTOS ABATEMENT AND LEAD-BASED PAINT STABILIZATION REQUIRED FOR THE PERFORMANCE OF THE WORK OF THIS CONTRACT.

CODE DATA

1. PHILADELPHIA BUILDING CONSTRUCTION AND OCCUPANCY CODE:
   - SUBCODE "A": THE PHILADELPHIA ADMINISTRATIVE CODE
   - SUBCODE "B": THE PHILADELPHIA BUILDING CODE
   - SUBCODE "E": THE PHILADELPHIA ELECTRICAL CODE
   - SUBCODE "EB": THE PHILADELPHIA EXISTING BUILDING CODE
   - SUBCODE "EC": THE PHILADELPHIA ENERGY CONSERVATION CODE
   - SUBCODE "F": THE PHILADELPHIA FIRE CODE
   - SUBCODE "PC": THE PHILADELPHIA CODE FOR BUILDINGS AND MAINTENANCE.
   - SUBCODE "PM": THE PHILADELPHIA PROPERTY MAINTENANCE CODE
   - PHILADELPHIA CROSS CONNECTION CODE
   - 2018 INTERNATIONAL BUILDING CODE CHAPTER II AND APPENDIX E (ADA)
2. NFPA 70-2017, NATIONAL ELECTRIC CODE
3. NFPA 72-2013, NATIONAL FIRE ALARM CODE

LOCATION MAP

SCALE: NTS

DRAWING LIST

SHEET #	DRAWING #	SHEET NAME
1	G001	COVER SHEET
2	M001	LEGEND, ABBREVIATIONS & GENERAL NOTES
3	M101	MECHANICAL HVAC GROUND FLOOR PLAN
4	M102	MECHANICAL HVAC FIRST FLOOR PLAN - SOUTH
5	M103	MECHANICAL HVAC FIRST FLOOR PLAN - NORTH
6	M104	MECHANICAL HVAC SECOND FLOOR PLAN - SOUTH
7	M105	MECHANICAL HVAC SECOND FLOOR PLAN - NORTH
8	M501	MECHANICAL SCHEDULES AND DETAILS
9	E001	ELECTRICAL ABBREVIATIONS & GENERAL NOTES
10	E101	ELECTRICAL POWER GROUND FLOOR
11	E102	ELECTRICAL POWER FIRST FLOOR PLAN PART 1
12	E103	ELECTRICAL POWER FIRST FLOOR PLAN PART 2
13	E104	ELECTRICAL POWER SECOND FLOOR PLAN PART 1
14	E105	ELECTRICAL POWER SECOND FLOOR PLAN PART 2
15	E501	PARTIAL EXISTING SINGLE LINE DIAGRAM
16	E502	ELECTRICAL SCHEDULES AND DETAILS

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015
(215) 400 - 4730 | (215) 400 - 4731 (fax)
www.philasd.org

SEAL:

ENGINEER OF RECORD:

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

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
COVER SHEET

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
G001

SHEET 1 OF 16

ABBREVIATIONS

Abbreviation	Meaning
@	AT
A	AIR
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AD	AREA DRAIN, ACCESS DOOR, AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUST, ADJUSTABLE
AF	ANTI-FREEZE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
AST	ABOVEGROUND STORAGE TANK
ATV	ATMOSPHERIC VENT
AVG	AVERAGE
BA	BREATHABLE AIR
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLW	BELOW
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BASIS OF DESIGN
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	COMMON
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLDIP	CEMENT-LINED DUCTILE IRON S PIPE
CLNG	CEILING
CNG	COMPRESSED NATURAL GAS
CO	CLEANOUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CONT'D	CONTINUED
CPVC	CHLORINATED POLYVINYL CHLORIDE
CV	CLEANING VACUUM, CHECK VALVE
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
Cx	
CxA	COMMISSIONING AUTHORITY
(D)	DEMOLISH, REMOVE
D	DRAIN, DEPTH
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEG, °	DEGREES
DEH	DEHUMIDIFIER
DEPT	DEPARTMENT
DESG	DESIGNATION
DFU	DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DIFF	DIFFERENTIAL, DIFFERENCE
DISC	DISCONNECT
DN	DOWN
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
DTWR	HOT/CHILLED WATER RETURN (DUAL TEMP.)
DTWS	HOT/CHILLED WATER SUPPLY (DUAL TEMP.)
DWG	DRAWING
(ER)	EXISTING RELOCATED
(EX)	EXISTING TO REMAIN
EA	EACH
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EQ	EQUAL
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
(F)	FUTURE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDR	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FUEL GAS
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FM	FLOW METER
FO	FUEL OIL
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOW SWITCH
FT HD	FEET OF HEAD
FT, '	FOOT, FEET
FZ	FREEZE, FREEZSTAT
°F	DEGREES FAHRENHEIT
G	GAS
GA	GAUGE
GAL	GALLON, GALLONS
GALV	GALVANIZED
GCO	GRADE CLEANOUT
GEN	GENERATOR
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
GWR	GLYCOL WATER SUPPLY
GWS	GLYCOL WATER RETURN
H	HEIGHT
H2O	WATER
HB	HOSE BIB
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HTG	HEATING
HUM	HUMIDIFIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ (CYCLES PER SECOND)
ID	INSIDE DIAMETER
INWG	INCHES OF WATER GAUGE
IN, "	INCH, INCHES
INFO	INFORMATION
INFO	INFORMATION
INT	INTERIOR
INT	INTERIOR
INV EL	INVERT ELEVATION
ISOL	ISOLATION
IW	INDUSTRIAL WASTE, INDIRECT WASTE
KW	KILOWATTS
L	LENGTH, LONG
LAV	LAVATORY
LBS	POUNDS
LDR	LEADER
LP	LIQUID PROPANE
LPCR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LRA	LOAD RATED AMPS
LWT	LEAVING WATER TEMPERATURE
M	METER
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MOTOR OIL
MPS	MEDIUM PRESSURE STEAM
MTD	MOUNTED
MTG	MOUNTING
MUW	MAKE UP WATER
MV	MEDICAL VACUUM
N	NITROGEN
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED, NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION AGENCY
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPENED
No	NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O/2, O2	OXYGEN
OC	ON CENTER
OFD	OVERFLOW DRAIN
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE VALVE
OSD	OPEN SITE DRAIN
OVH	OVERHEAD
OWS	OIL WATER SEPARATOR
%	PERCENT
P	PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PH	PHASE
PIW	PUMPED INDUSTRIAL WASTE
PLBG	PLUMBING
PNEU	PNEUMATIC
POS	POSITION
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSC	PUMPED STEAM CONDENSATE RETURN
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
(RL)	RELOCATED POSITION
R	RISE
RD	ROOF DRAIN, REFRIGERANT DISCHARGE
REF	REFRIGERANT
REQ'D	REQUIRED
RL	REFRIGERANT LIQUID
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE BFP
RS	REFRIGERANT SUCTION
RWC	RAINWATER CONDUCTOR
S	SWITCH
S/S	START/STOP
SAN	SANITARY
SC	STEAM CONDENSATE RETURN
SF	SUPPLY FAN, SQUARE FEET
SK	SINK
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FOOT, SQUARE FEET
SS	STAINLESS STEEL
ST	STORM WATER PIPING
STD	STANDARD
STL	STEEL
STM	STEAM
TEMP	TEMPERATURE, TEMPORARY
TP	TRAP PRIMER
TW	TEPID WATER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VENT
VCO	VERTICAL CLEAN OUT
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WIDTH, WIDE
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WFU	WATER SUPPLY FIXTURE UNITS
WG	WATER GAUGE
WH	WATER HEATER, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WT	WEIGHT
ZN	ZONE

DUCTWORK

SYMBOL DOUBLE LINE	DESCRIPTION
20x12	DUCTWORK, SIZE AS INDICATED
20x12	DUCTWORK, WITH SOUND LINING
	VANED ELBOW
	UN-VANED ELBOW
	RADIUS ELBOW
	VANED TEE
	UN-VANED TEE
	SUPPLY DUCT TURNING UP AND DOWN
	RETURN DUCT TURNING UP AND DOWN
	EXHAUST/RELIEF DUCT TURNING UP AND DOWN
R/D	DUCT RISE/DROP IN AIRFLOW DIRECTION
	DUCT TRANSITION, SQUARE TO SQUARE
	DUCT TRANSITION, SQUARE TO ROUND
	DUCT CAPPED
	45 DEGREE TAP
	CONICAL TAP
	SPUN-IN RUNOUT FITTING W/ FLEX. & VD
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
BDD	BACKDRAFT DAMPER
MD	MOTORIZED DAMPER
BD	BAROMETRIC DAMPER
	DUCT CONTINUATION
	SUPPLY AIR FLOW DIRECTION
OA	OUTSIDE AIR FLOW DIRECTION
	RETURN/EXHAUST AIR FLOW DIRECTION
	RETURN, EXHAUST GRILLE OR REGISTER
	SUPPLY AIR DIFFUSER, 4-WAY BLOW
	SUPPLY AIR DIFFUSER, 3-WAY BLOW
	SUPPLY AIR DIFFUSER, 2-WAY BLOW
	SUPPLY AIR DIFFUSER, 1-WAY BLOW
	LINEAR SLOT DIFFUSER
UC	UNDERCUT DOOR
DL 12x12	DOOR LOUVER
AD	DUCT ACCESS DOOR
T , T	THERMOSTAT, MASTER THERMOSTAT
TS	TEMPERATURE SENSOR
H	HUMIDISTAT
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
H	DUCT SMOKE DETECTOR
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
NOx	NITROGEN OXIDES SENSOR
SOx	SULFUR OXIDES SENSOR
O O	GAS CONCENTRATION MONITOR
SP	STATIC PRESSURE SENSOR
AFMS	AIR FLOW MEASURING STATION
S	SWITCH OR TOGGLE SWITCH
TM	MANUAL TIMER SWITCH
HOA	HAND/OFF/AUTO SWITCH
1 2	STATIC PRESSURE CLASSIFICATION DESIGNATION (IN. W.G.)

PIPING

SYMBOL	DESCRIPTION
	PIPING TURNING UP
	PIPING TURNING DOWN
	TEE DOWN
	PIPE BRANCH BOTTOM TAKEOFF
	PIPE BRANCH TOP TAKEOFF
	VALVE IN VERTICAL PIPE
	CAP
	FLOW DIRECTION
R/D	PIPE SLOPE RISE/DROP
	PIPE RISER UP/DOWN
	CONCENTRIC REDUCER/INCREASER
	ECCENTRIC REDUCER/INCREASER (FOB)
	UNION
	PIPE CONTINUATION
W H	EXPANSION LOOP (WxH)
	PIPE ANCHOR
	FLEXIBLE PIPE CONNECTOR
EJ	EXPANSION JOINT
	PIPE GUIDE
	STEAM TRAP
	BLIND FLANGE
T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE TRANSDUCER
FS	FLOW SWITCH
FM	FLOW METER
	VENTURI FLOW METER
	PUMP

LINES & REFERENCE SYMBOLS

	NEW WORK LINEWEIGHT
	DEMOLITION WORK LINEWEIGHT
	AREA OF DEMOLITION
	EXISTING WORK LINEWEIGHT
	FUTURE WORK LINEWEIGHT
	POINT OF CONNECTION
	TERMINATION POINT OF DEMOLITION
	POINT OF FUTURE CONNECTION
#	SHEET KEYED NOTE
#	DRAWING REVISION NUMBER
E-1	EQUIPMENT TAG
	NORTH ARROW

CD-1 / 8" / 150 — NECK, TYPE — CD-1 / 150 — CD-1-150 — CFM — DIFFUSER, REGISTER, OR GRILLE DESIGNATION AND AIRFLOW TAG(S)

VAV-1 / 8" / 150 — DESIGNATION — DUCT INLET/PIPE SIZE — CFM/GPM — VAV/AIR VALVE TAG

1 VIEW TITLE, SCALE — INDICATES PLAN/DETAIL NUMBER — PLAN/DETAIL TITLE — SCALE (AS REQUIRED)

1 / 1 — INDICATES PLAN/DETAIL NUMBER — INDICATES DRAWING ON WHICH DRAWING SECTION APPEARS

MECH VALVES

SYMBOL	THREE LINE PLAN	THREE LINE ELEVATION	DESCRIPTION
			GEN. SHUTOFF VALVE (BALL, GATE, BUTTERFLY)
			GATE VALVE
			GLOBE VALVE
			OUTSIDE STEM & YOKE VALVE
			BALL VALVE
			BUTTERFLY VALVE
			CHECK VALVE
			GAS COCK
			PRESSURE REDUCING VALVE
			CALIBRATED BALANCING VALVE
			CONTROL VALVE, TWO-WAY (ELECTRIC)
			CONTROL VALVE, THREE-WAY (ELECTRIC)
			THREE-WAY MANUAL VALVE
			CONTROL VALVE, TWO-WAY (PNEUMATIC)
			SOLENOID VALVE
			RELIEF/SAFETY VALVE
			STRAINER
			STRAINER WITH DRAIN VALVE AND CAP
			PRESSURE GAUGE WITH COCK
			THERMOMETER
			CONTROL VALVE, THREE-WAY (PNEUMATIC)
			FUSOMATIC GATE VALVE
AAV			AUTOMATIC AIR VENT (EXTEND TO DRAIN)
MAV			MANUAL AIR VENT
			PRESSURE/TEMPERATURE TEST PORT
			AQUASTAT
			NORMALLY CLOSED PORT (NC)

GENERAL NOTES

1. NOT ALL ABBREVIATIONS, LINE TYPES, OR SYMBOLS MAY APPEAR ON THESE CONTRACT DOCUMENTS.
2. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, DIMENSIONS SHALL BE CONFIRMED IN THE FIELD.
3. THE CONTRACTOR SHALL COMPLY WITH THE LAWS, ORDINANCES, RULES AND REGULATIONS OF LOCAL AND STATE GOVERNMENTAL AUTHORITIES; OF THE NATIONAL FIRE PROTECTION ASSOCIATION AS INTERPRETED BY THE ENFORCING AUTHORITY HAVING JURISDICTION; AND OF PUBLIC UTILITIES HAVING CONNECTION WITH ANY OF THE SYSTEMS HEREIN SPECIFIED.
4. INSTALL EQUIPMENT IN A SERVICEABLE MANNER WITHOUT DISRUPTION TO ADJACENT SERVICES OR DAMAGING INSULATION. THIS INCLUDES, BUT IS NOT LIMITED TO: PROVIDE VALVE OPERATOR EXTENSIONS TO EXTEND THRU THE INSULATION AND HANDLES TO SWING TOWARD THE OPERATOR FOR ISOLATION.
5. PROVIDE ALL NEW AND REUSED WALL PENETRATIONS WITH A SLEEVE/CONDUIT FOR SERVICES PENETRATING IT. THIS INCLUDES, BUT IS NOT LIMITED TO: DUCTWORK, PIPING, POWER, AND CONTROL WIRING.
6. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES, AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK. CERTIFICATES SHALL BE IN DUPLICATE AND SHALL BE DELIVERED TO THE OWNER.
7. THE SITE, LOCATION, AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS PERMIT. CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY CONDITIONS WHICH MIGHT MAKE INSTALLATION OF REQUIRED EQUIPMENT A PROBLEM. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE CONDITIONS OR MISUNDERSTANDINGS OF THE CONTRACTUAL REQUIREMENTS.
8. THE CONTRACTOR SHALL INSTALL AND CONNECT EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND, UNLESS OTHERWISE SHOWN OR SPECIFIED, FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION REQUIREMENTS AND RECOMMENDATIONS, AND FURNISH AND INSTALL REQUIRED AUXILIARY ITEMS TO PROVIDE A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL REPAIR WALLS, CEILING, FLOORS, ETC., THAT ARE REQUIRED TO BE PENETRATED, OR OTHERWISE DISTURBED. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES TO MATCH EXISTING. FIRE WALL PENETRATIONS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIRE WALL INTEGRITY.
10. THE CONTRACTOR SHALL REMOVE EQUIPMENT NOT INDICATED TO BE REUSED TO A DESIGNATED LOCATION AT THE PROJECT SITE. AFTER THE EQUIPMENT HAS BEEN ASSEMBLED FOR THE OWNER'S INSPECTION AND POSSIBLE RETENTION, ALL EQUIPMENT NOT TO BE RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
11. COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE AMONG MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL, PLUMBING, ETC. PROVIDE NECESSARY OFFSETS IN PIPING, DUCTWORK AND FITTINGS ETC., REQUIRED TO PROPERLY INSTALL WORK WITHOUT INTERFERENCES.
12. BUILDING SYSTEMS SHALL REMAIN IN SERVICE UNLESS INDICATED OTHERWISE. OUTAGES OR INTERRUPTIONS SHALL BE KEPT TO A MINIMUM DURATION. NOTIFY THE OWNER 48 HOURS IN ADVANCE OF ANY OUTAGE OR INTERRUPTION. IF TEMPORARY CONNECTIONS ARE NECESSARY TO ASSURE THIS CONTINUITY OF SERVICES, THEY SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER AND SHALL BE REMOVED WHEN NO LONGER NEEDED.
13. THE CONTRACTOR SHALL ARRANGE AND EXECUTE HIS WORK SUCH THAT ANY CONNECTIONS, BOTH TEMPORARY OR PERMANENT, TO, OR REARRANGEMENT OF, PRESENT EQUIPMENT, PIPING, ETC., SHALL BE MADE IN SUCH A MANNER AS TO ASSURE FULL RESUMPTION OF SERVICE AT THE TIME DESIGNATED BY THE OWNER.
14. THE CONTRACTOR SHALL LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. FURNISH ACCESS DOORS AS REQUIRED FOR BETTER ACCESSIBILITY. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR ACCESSIBILITY, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COSTS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL.
15. ALL DIMENSIONS FOR EXISTING PIPING AND DUCTWORK SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION, WHERE NEW WORK CONNECTIONS ARE INDICATED. NEW DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
16. OPENINGS REMAINING IN EXISTING PIPING/DUCTWORK AS A RESULT OF DEMOLITION SHALL BE SEALED WITH AN AIRTIGHT/WATERTIGHT SHEET METAL CAP. WHERE EXISTING SYSTEMS ARE INSULATED, WORK SHALL INCLUDE REPAIR AND REPLACEMENT OF INSULATION EITHER DAMAGED OR REMOVED AS A RESULT OF DEMOLITION.
17. PIPING SCOPE REQUIREMENTS: HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE MINIMUM SLOPE OF HORIZONTAL DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

GENERAL DEMOLITION NOTES

1. EXISTING HANGERS SHALL BE MODIFIED TO FACILITATE NEW ABOVE CEILING WORK.
2. ABANDONED EQUIPMENT SHALL BE REMOVED IN ITS ENTIRETY AS REQUIRED TO FACILITATE NEW WORK.

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

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

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

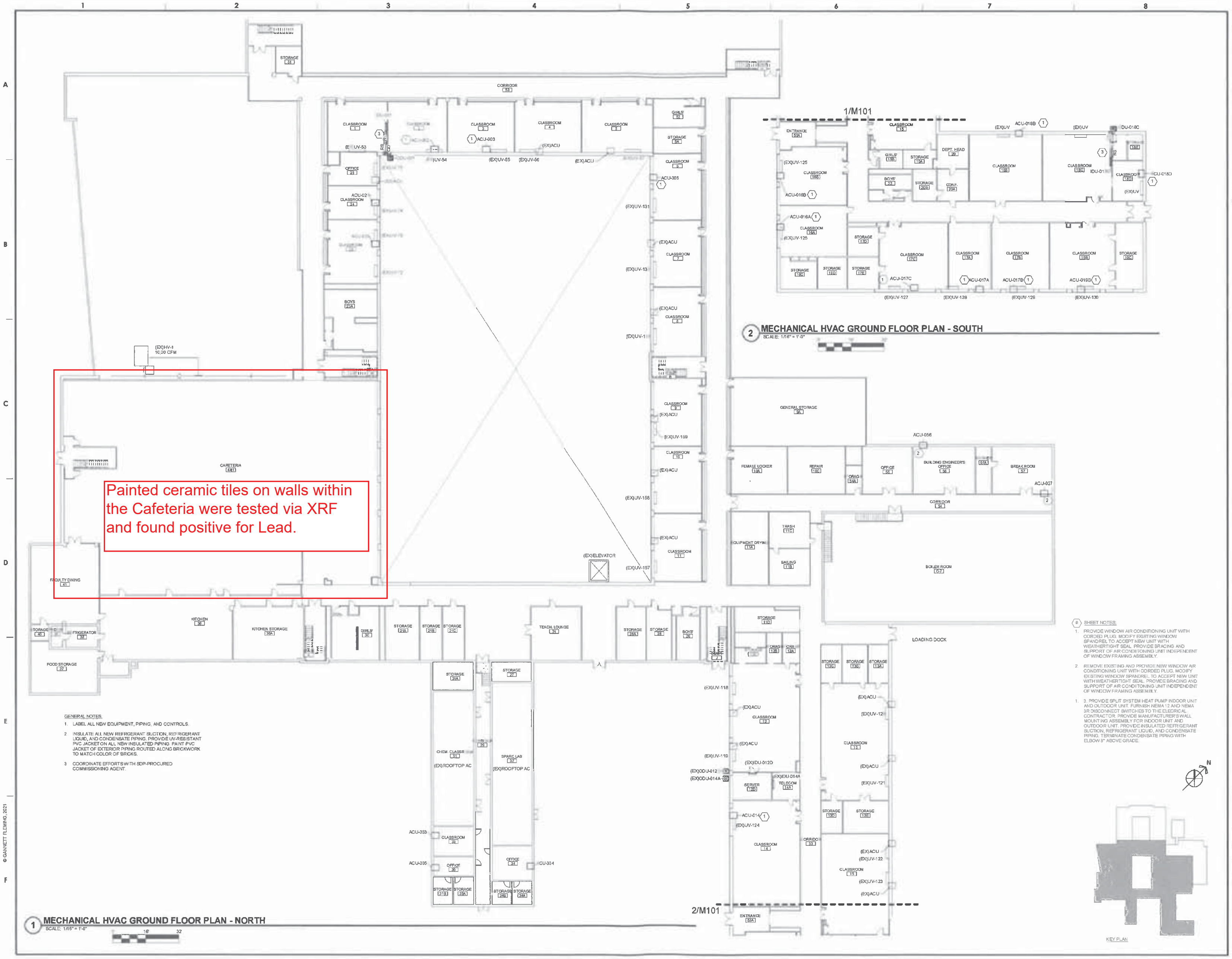
PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
LEGEND, ABBREVIATIONS & GENERAL NOTES

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY Checker

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M001
SHEET 2 OF 16



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NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE. PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC GROUND FLOOR PLAN

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

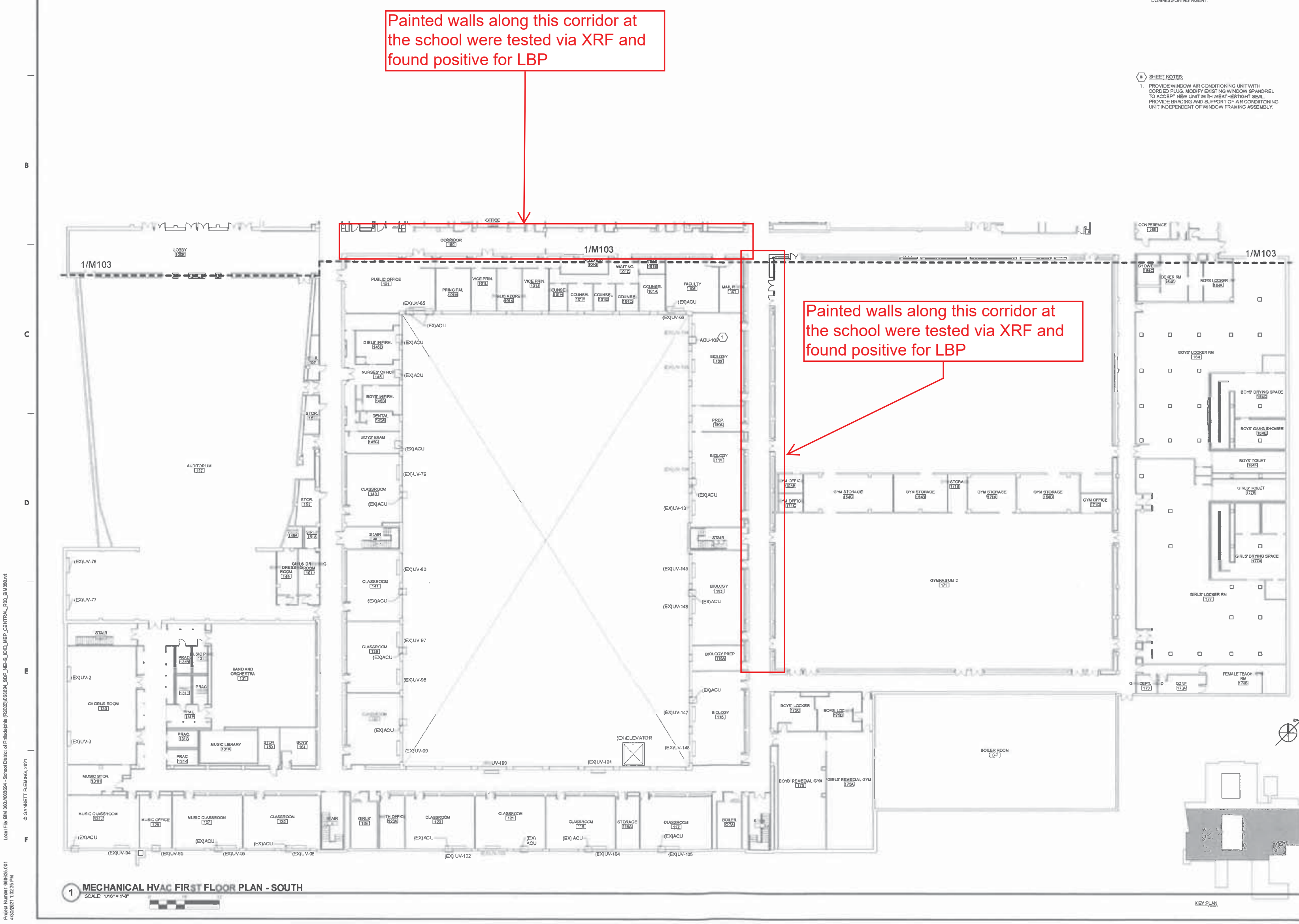
DRAWING NO.
M101
SHEET 3 OF 16

GENERAL NOTES:

1. LABEL ALL NEW EQUIPMENT, PIPING, AND CONTROLS.
2. INSULATE ALL NEW REFRGERANT SUCTION, REFRIGERANT LIQUID, AND CONDENSATE PIPING. PROVIDE UV-RESISTANT PVC JACKET ON ALL NEW INSULATED PIPING. PAINT PVC JACKET OF EXTERIOR PIPING ROUTED ALONG BRICKWORK TO MATCH COLOR OF BRICKS.
3. COORDINATE EFFORTS WITH SDP-PROCURED COMMISSIONING AGENT.

SHEET NOTES:

1. PROVIDE WINDOW AIR CONDITIONING UNIT WITH CORDED PLUG. MODIFY EXISTING WINDOW SPANDREL TO ACCEPT NEW UNIT WITH WEATHERTIGHT SEAL. PROVIDE BRACING AND SUPPORT OF AIR CONDIITONING UNIT INDEPENDENT OF WINDOW FRAMING ASSEMBLY.



1 MECHANICAL HVAC FIRST FLOOR PLAN - SOUTH
SCALE: 1/16" = 1'-0"

THE SCHOOL DISTRICT OF PHILADELPHIA
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BRIAN M WEISSER
PA PE08369

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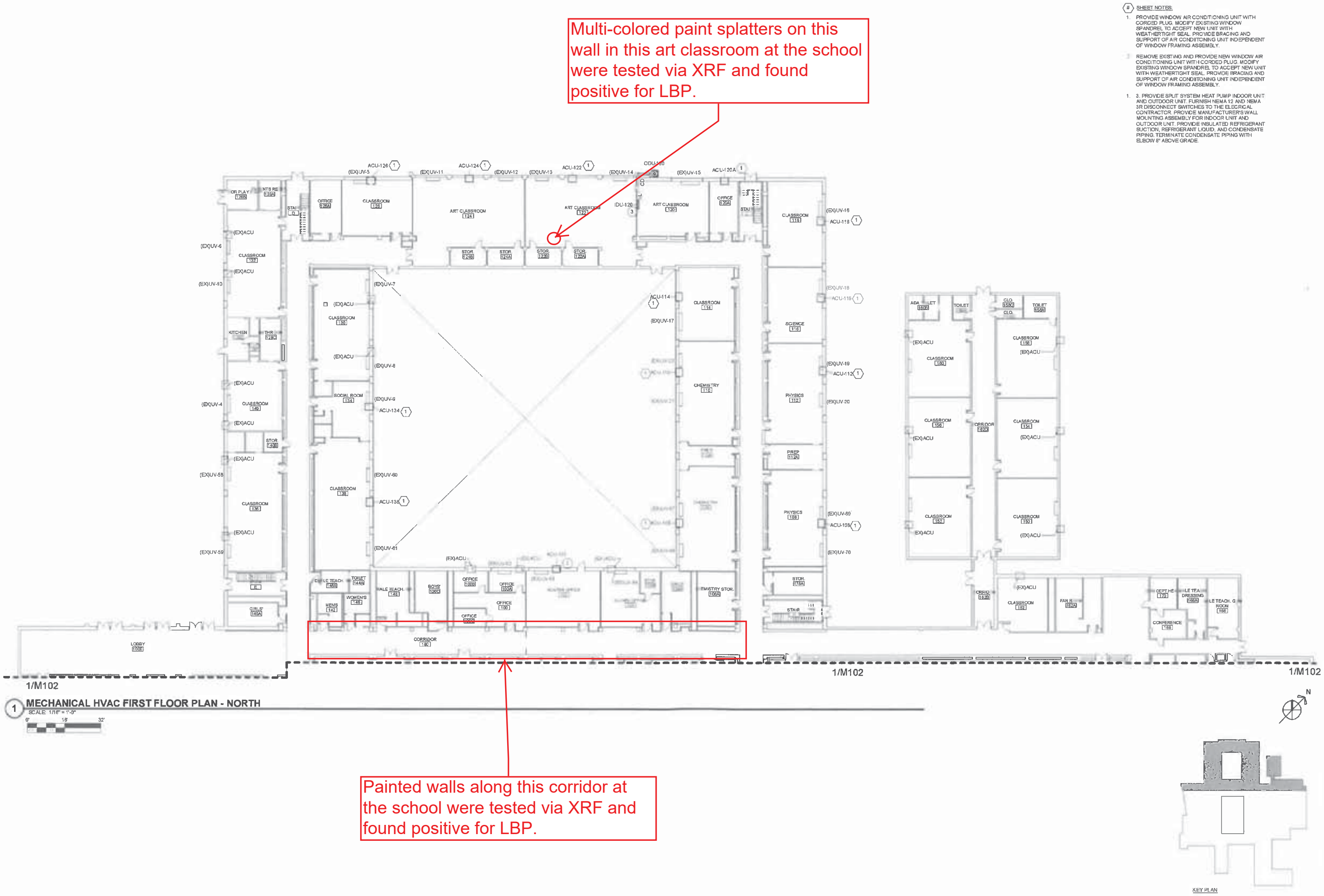
PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC FIRST FLOOR PLAN - SOUTH

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M102
SHEET 4 OF 16



1 MECHANICAL HVAC FIRST FLOOR PLAN - NORTH

SCALE: 1/16" = 1'-0"

THE SCHOOL DISTRICT OF PHILADELPHIA

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04/30/2021

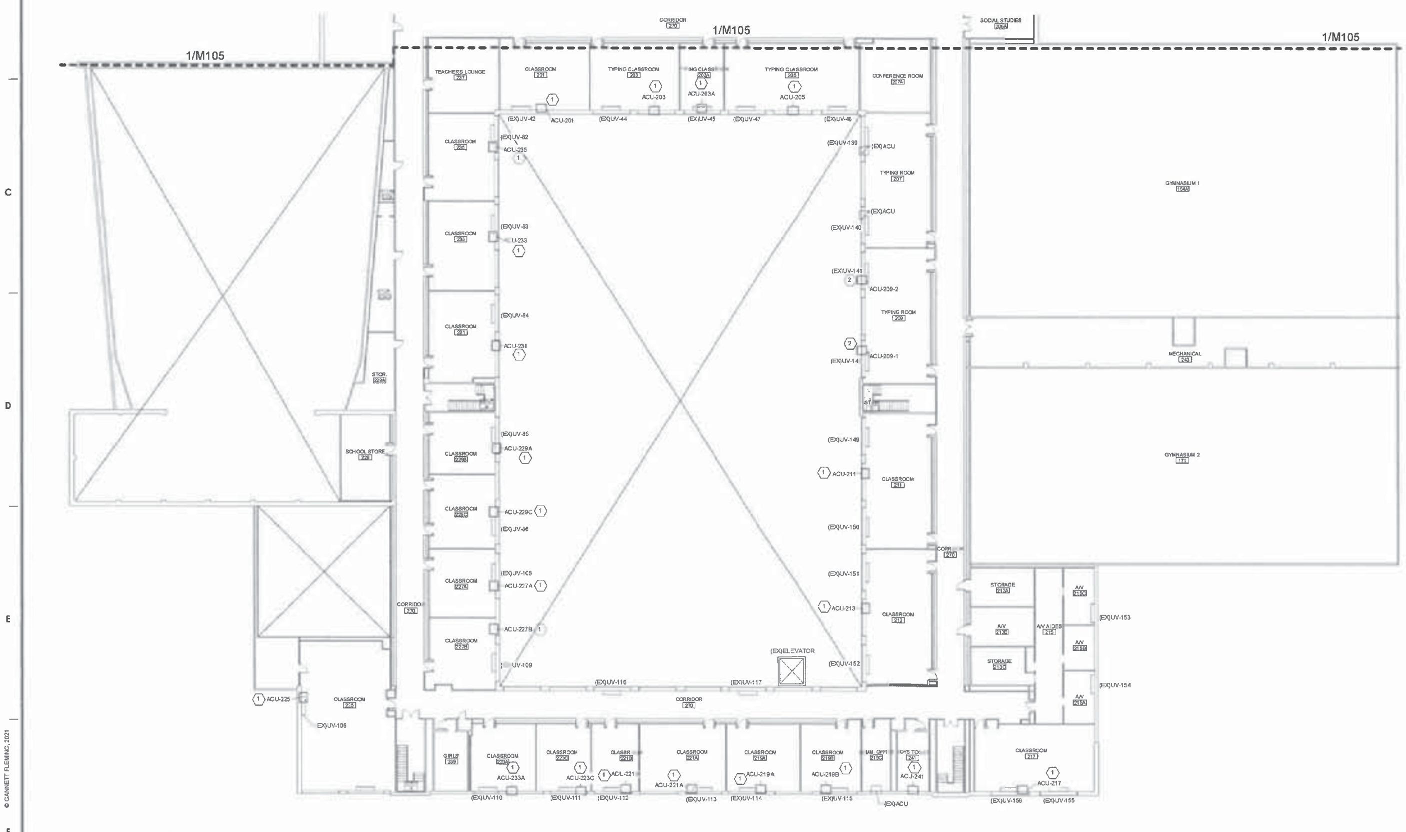
SCHOOL & LOCATION
1601 COTTMAN AVE. PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC FIRST FLOOR PLAN - NORTH

DRAWING NO.
M103

SHEET 5 OF 16



MECHANICAL HVAC SECOND FLOOR PLAN - SOUTH

SCALE: 1/16" = 1'-0"

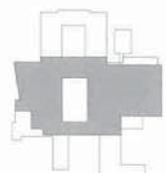
0' 16'

GENERAL NOTES:

1. LABEL ALL NEW EQUIPMENT, PIPING, AND CONTROLS.
2. INSULATE ALL NEW REFRIGERANT SUCTION, REFRIGERANT LIQUID, AND CONDENSATE PIPING. PROVIDE UV-RESISTANT PVC JACKET ON ALL NEW INSULATED PIPING. PAINT PVC JACKET OF EXTERIOR PIPING ROUTED ALONG BRICKWORK TO MATCH COLOR OF BRICKS.
3. COORDINATE EFFORTS WITH SDP-PROCURED COMMISSIONING AGENT.

(#) SHEET NOTES:

1. PROVIDE WINDOW AIR CONDITIONING UNIT WITH CORDED PLUG. MODIFY EXISTING WINDOW SPANDREL TO ACCEPT NEW UNIT WITH WEATHERTIGHT SEAL. PROVIDE BRACING AND SUPPORT OF AIR CONDIITONING UNIT INDEPENDENT OF WINDOW FRAMING ASSEMBLY.
2. REMOVE EXISTING AND PROVIDE NEW WINDOW AIR CONDITIONING UNIT WITH CORDED PLUG. MODIFY EXISTING WINDOW SPANDREL TO ACCEPT NEW UNIT WITH WEATHERTIGHT SEAL. PROVIDE BRACING AND SUPPORT OF AIR CONDIITONING UNIT INDEPENDENT OF WINDOW FRAMING ASSEMBLY.



KEY PLAN

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PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC SECOND FLOOR PLAN - SOUTH

DRAWING SCALE AS NOTED	
LOCATION NO. 8020	ENGINEER'S PRJ. NO. 068625.001
DRAWN BY JMJ	CHECKED BY BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M104

SHEET 6 OF 16

Local File: BIM 360://063694 - School District of Philadelphia (R2020)/063694_SDP_NEHS_IDIQ_MEP_CENTRAL_R20_BIM360.rvt
Project Number: 068625.001
4/30/2021 1:02:27 PM

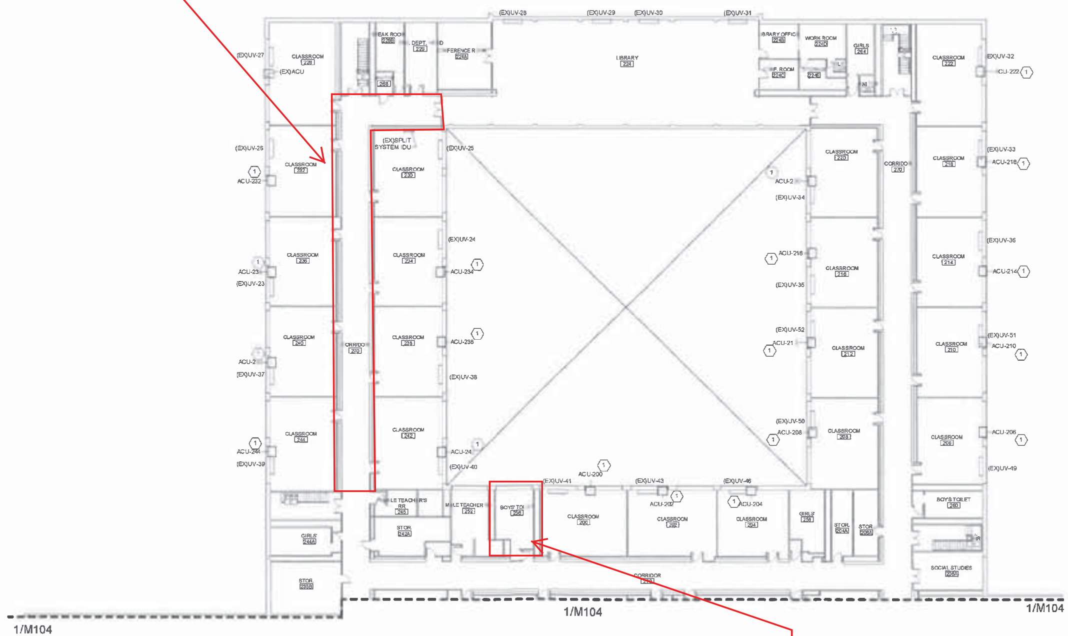
Painted walls along this corridor at the school were tested via XRF and found positive for LBP.

GENERAL NOTES:

1. LABEL ALL NEW EQUIPMENT, PIPING, AND CONTROLS.
2. INSULATE ALL NEW REFRGERANT SUCTION, REFRIGERANT LIQUID, AND CONDENSATE PIPING. PROVIDE UV-RESISTANT PVC JACKET ON ALL NEW INSULATED PIPING. PAINT PVC JACKET OF EXTERIOR PIPING ROUTED ALONG BRICKWORK TO MATCH COLOR OF BRICKS.
3. COORDINATE EFFORTS WITH SDP-PROCURED COMMISSIONING AGENT.

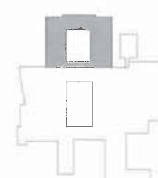
(#) SHEET NOTES:

1. PROVIDE WINDOW AIR CONDITIONING UNIT WITH CORDED PLUG. MODIFY EXISTING WINDOW SPANDREL TO ACCEPT NEW UNIT WITH WEATHERTIGHT SEAL. PROVIDE BRACING AND SUPPORT OF AIR CONDITONING UNIT INDEPENDENT OF WINDOW FRAMING ASSEMBLY.



Painted walls in this Boy's Restroom at the school were tested via XRF and found positive for LBP.

(1) MECHANICAL HVAC SECOND FLOOR PLAN - NORTH
SCALE: 1/16" = 1'-0"



KEY PLAN

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SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL HVAC SECOND FLOOR PLAN - NORTH

DRAWING SCALE
AS NOTED

LOCATION NO.	ENGINEER'S PRJ. NO.
8020	068625.001
DRAWN BY	CHECKED BY
JMJ	BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M105

SHEET 7 OF 16

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	AIRFLOW (CFM)	SENSIBE COOLING (BTU/H)	ELECTRICAL DATA HZ	FLA	MCA	SCCR (kA)	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
IDU-001	320-370-425	18,000 - 12,200	60	[illegible]	11	5	29	MITSUBISHI	PKA-A18HA7	1, 2, 3
IDU-018C	320-370-425	18,000 - 12,200	60	0.33	11	5	29	MITSUBISHI	PKA-A18HA7	1, 2, 3
IDU-120	635-705-775	24,00 - 18,500	60	0.38	19	5	46	MITSUBISHI	PKA-A24HA7	1, 2, 3

REMARKS

1. FURNISH DISCONNECT SWITCH TO ELECTRICAL CONTRACTOR.
2. PROVIDE REMOTE-MOUNTED, PROGRAMMABLE THERMOSTAT, CONTROL WIRE, CONDUIT, AND LOCKABLE CLEAR LEXAN COVER.
3. PROVIDE MANUFACTURER'S WALL MOUNTING ASSEMBLY.

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	SENSIBE COOLING (BTU/H)	ELECTRICAL DATA HZ	FLA	MCA	MOCP	SCCR (kA)	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
ODU-001	18,00 - 12,200	60	0.5	11	28	5	99	MITSUBISHI	PUY-A18NKA7	1, 2, 3
ODU-018C	18,00 - 12,200	60	0.5	11	28	5	99	MITSUBISHI	PUY-A18NKA7	1, 2, 3
ODU-120	24,00 - 18,500	60	0.38	19	28	5	151	MITSUBISHI	PKA-A24NHA7	1, 2, 3

REMARKS

1. FURNISH NEMA 3R DISCONNECT SWITCH TO ELECTRICAL CONTRACTOR.
2. PROVIDE WITH LOW-AMBIENT COOLING KIT.
3. PROVIDE MANUFACTURER'S WALL MOUNTING ASSEMBLY.

INSULATION THICKNESS SCHEDULE

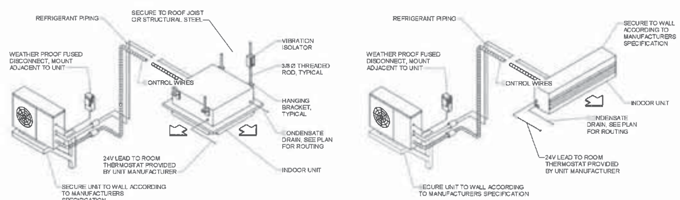
FLUID OPERATING TEMPERATURE RANGE AND USAGE (F)	INSULATION CONDUCTIVITY: CONDUCTIVITY (BTU-IN/(H-FT^2-F))	MEAN RATING TEMP. (F)	NOMINAL PIPE OR TUBE SIZE (INCHES): < 1	1 TO < 1.5	1.5 TO < 4	4 TO < 8	≥ 8
HEATING SYSTEMS (STEAM>15 PSIG)							
> 350	0.32 - 0.34	250	4.5	5	5	5	5
251 - 350	0.29 - 0.32	200	3	4	4.5	4.5	4.5
HEATING SYSTEMS (STEAM<15PSIG)							
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3	3
HEATING SYSTEMS (HOT WATER, STEAM CONDENSATE)							
141 - 200	0.25 - 0.29	125	1.5	1.5	2	2	2
105 - 140	0.21 - 0.28	100	1	1	1.5	1.5	1.5
COOLING SYSTEMS (CHILLED WATER, REFRIGERANT, AIR CONDITIONING CONDENSATE)							
40 - 60	0.21 - 0.27	75	0.5	0.5	1	1	1
< 40	0.20 - 0.26	50	0.5	1	1	1	1.5

AIR CONDITIONING UNIT SCHEDULE

MARK	SUPPLY AIRFLOW (CFM)	COOLING CAPACITY (MBH)	HEATING OUTPUT (KW)	ELECTRICAL DATA V	Ø	HZ	APPROX. OPERATING WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	MODEL	REMARKS
ACU-002	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-003	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
A[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	[illegible]	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
AC[illegible]A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
AC[illegible]B	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
AC[illegible]C	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
AC[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
AC[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
AC[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
A[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
AC[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
A[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]3	[illegible]	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
A[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
A[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU[illegible]	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
[illegible]	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-124	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-126	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-134	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-138	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-200	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-201	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-202	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-203	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-203A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-204	330	15.7	0.00	230	1	60	141	FRIEDRICH	KCS16A30A	1
ACU-205	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-206	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-208	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-209-1	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-209-2	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-210	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-211	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-212	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-213	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-214	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-216	[illegible]	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-217	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-218	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-219B	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-220	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-221A	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-221B	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-222	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-223C	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-225	[illegible]	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-227A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-227B	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-229A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-229C	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
[illegible]	[illegible]	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-232	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-233	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-233A	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-234	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-235	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-236	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-238	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-240	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1
ACU-241	300	12	0.00	230	1	60	116	FRIEDRICH	KCS12A30A	1
ACU-242	640	28	0.00	230	1	60	193	FRIEDRICH	KCL28A30A	1
ACU-244	725	35	0.00	230	1	60	212	FRIEDRICH	KCL36A30A	1

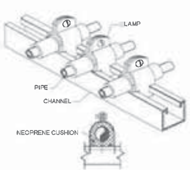
REMARKS

1. PROVIDE WITH 3' CORDED PLUG AND INTEGRAL THERMOSTAT.



3 DUCTLESS SPLIT SYSTEM WALL MOUNTED INSTALL DETAIL

SCALE: NTS



NOTES:

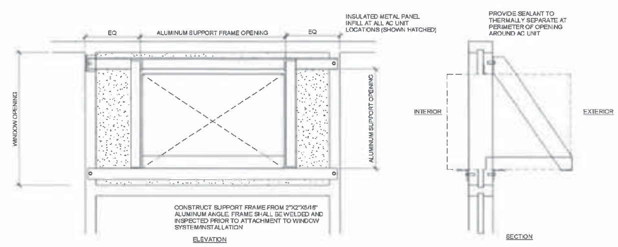
1. USE GRINNELL PS SERIES POWER-STRUT CHANNEL WITH PS1400 PIPE AND CONDUIT CLAMPS OR EQUIVALENT. CLAMPS TO HAVE CAPTIVE MACHINE SCREW/NYLON LOCKNUT AND A THERMOPLASTIC RUBBER INSERT.
2. REFRIGERANT PIPING TO BE SECURED AS NECESSARY TO PREVENT MOVEMENT, VIBRATION, AND NOISE. MAXIMUM DISTANCE BETWEEN ANCHORAGE POINTS = 4'-0"
3. USE GRINNELL SERIES PS 684 BEAM CLAMPS OR EQUIVALENT TO ATTACH CHANNELS TO ROOF/FLOOR SUPPORT BEAMS.
4. USE EXPANSION TYPE FASTENERS APPROVED FOR USE IN BASE MATERIAL FOR ATTACHING CHANNELS TO INTERIOR WALLS.

2 REFRIGERANT AND CONDENSATE PIPING SUPPORT DETAIL

SCALE: NTS

GENERAL NOTES

1. INTERIOR SUPPORT ANGLES TO BE 2"X2"X5/16" ALUMINUM ANGLE FASTENED TO WINDOW FRAMING.
2. WINDOW UNIT TO BE SUPPORTED BY SUPPORT EQUIPMENT AND INTERIOR ANGLE AND NOT RESTING ON METAL PANEL INFILL MATERIAL.
3. FLASHING SHALL BE 18 GAUAGE AND SCREWED THROUGH METAL PANEL INFILL. SEALANT SHALL BE SILICON
4. ALL FASTENERS SHALL BE STAINLESS STEEL.



1 EXTERIOR AIR CONDITIONING WALL UNIT - INSTALLATION DETAIL

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

THE SCHOOL DISTRICT OF PHILADELPHIA
OFFICE OF CAPITAL PROGRAMS
440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015
(215) 400 - 4730 | (215) 400 - 4731 (fax)
www.philasd.org

SEAL:

BRIAN M. WEISSER
PA PE08369

ENGINEER OF RECORD:

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

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
MECHANICAL SCHEDULES AND DETAILS

DRAWING SCALE: AS NOTED
LOCATION NO.: 8020
ENGINEER'S PRJ. NO.: 068625.001
DRAWN BY: JMJ
CHECKED BY: BMW

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
M501
SHEET 8 OF 16

LINES AND 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 KEYED NOTE
- DRAWING REVISION NUMBER
- E-1 — EQUIPMENT TAG
- NORTH ARROW
- 1 VIEW TITLE SCALE — INDICATES PLAN/DETAIL NUMBER; PLAN/DETAIL TITLE; SCALE (AS REQUIRED)
- 1 / M301 — INDICATES PLAN/DETAIL NUMBER; INDICATES DRAWING ON WHICH DRAWING SECTION APPEARS

ONE LINE DIAGRAM

- LOW VOLTAGE DRAWOUT CIRCUIT BREAKER
  - AF — AMP FRAME
  - AT — AMP TRIP
  - EO — ELECTRICALLY OPERATED
  - LISG — TRIP ELEMENTS: L- LONG TIME, S- SHORT TIME, I- INSTANTANEOUS, G GROUND FAULT
  - ST — SHUNT TRIP
- LOW VOLTAGE CIRCUIT BREAKER
- CURRENT TRANSFORMER/METER COMBINATION
- ST - SHUNT TRIP; GF - GROUND FAULT; EO - ELECTRICALLY OPERATED
- MEDIUM VOLTAGE ISOLATION SWITCH
- FUSED CUTOUT
- FUSED LOAD BREAK SWITCH
- CONTACTOR — 7 — NEMA SIZE
- MAGNETIC MOTOR STARTER, NUMERAL INDICATES NEMA SIZE (FVNR UNLESS OTHERWISE NOTED)
- CAPACITOR
- VFD — VARIABLE FREQUENCY DRIVE
- POWER TRANSFORMER
- VOLTAGE TRANSFORMER — 480-120 RATIO
- CURRENT TRANSFORMER — 2 NUMBER REQUIRED; POLARITY MARK; 600/5 MR MULTI RATIO; C/200 ACCURACY CLASS
- GROUND FAULT CURRENT TRANSFORMER (CORE BALANCE)
- MOTOR, NUMBER INDICATES HORSE POWER
- GENERATOR
- ATS - AUTOMATIC TRANSFER SWITCH; MTS - MANUAL TRANSFER SWITCH
- FUSE
- GROUND
- METER
  - A - AMMETER
  - V - VOLTMETER
  - W - WATT METER
  - WH - WATT HOUR METER
  - KWH - KILOWATT HOUR
  - KVAR - KILOVAR METER
  - VAR - VAR METER
  - HZ - FREQUENCY METER
  - PF - POWER FACTOR METER
- DPM — DIGITAL POWER METER
- SPD — SURGE PROTECTION DEVICE
- LIGHTNING ARRESTOR
- NON FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH
- 600A 3P / 600A 3P / 600A 3P — MANUAL TRANSFER SWITCH WITH CONNECTION FOR PERMANENT GENERATOR (HARDWIRED) PORTABLE GENERATOR (CAM CONNECTIONS) & LOAD BANK (CAM CONNECTIONS) (TRIPLE SWITCH OR APPROVED EQUAL)

GROUNDING

- GROUND ROD
- G — BARE COPPER CONDUCTOR EXPOSED
- G — BARE COPPER CONDUCTOR BURIED OR EMBEDDED IN CONCRETE
- GND — GROUND BUS
- TW — TEST WELL

ABBREVIATIONS

A or AMP	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMMETER SELECTOR SWITCH AMMETER SELECTOR SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
DISC	DISCONNECT
DIV	DIVISION
[illegible]	DISCONNECT SWITCH
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING(CONDUIT) ELECTRICAL METALLIC TUBING(CONDUIT)
EP	EXPLOSION PROOF
EUH	ELECTRIC UNIT HEATER
F/T	FEED THROUGH
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FRE	FIBERGLASS REINFORCED EPOXY
FU	FUSE
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING - VENTILATION - AIR CONDITIONING
IG	ISOLATED GROUND
IND	INDUSTRIAL
JIC	JOINT INDUSTRIAL COUNCIL
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LA	LIGHTNING ARRESTOR
LC	LIGHTING CONTACTOR
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MOA	MULTI OUTLET ASSEMBLY
MOD	MOTOR OPERATED DAMPER
MS	MOTOR STARTER
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
No	NUMBER
PMT	PAD MOUNTED TRANSFORMER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
RECP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL(CONDUIT)
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE
SC	SURGE CAPACITOR
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
TC	CABLE TRAY - CABLE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VS	VOLTMETER SELECTOR SWITCH
W	WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
1-PH	SINGLE PHASE
3-PH	THREE PHASE

CONDUIT FEEDERS & BRANCH CIRCUITS

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

GENERAL POWER

C	DENOTES MOUNTED 6" ABOVE COUNTER TOP
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE, NEMA 5-20R
GF	RECEPTACLE WIRED TO GROUND FAULT CIRCUIT BREAKER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
S - SWITCHED	ISOLATED GROUND
S	SWITCHED
TR	TAMPER RESISTANT
WP	WEATHER RESISTANT RECEPTACLE W/IN-USE COVER (WET LOCATION)
WR	WEATHER RESISTANT RECEPTACLE W/NON-IN-USE COVER (DAMP LOCATION)
TV	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
	SPECIAL PURPOSE RECEPTACLE FLOOR MOUNTED (AMPACITY AS NOTED)
B10	SURFACE MOUNTED RACEWAY LETTER INDICATES TYPE (SEE E600) NUMBER INDICATES LENGTH
J	JUNCTION BOX
	NON FUSED DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH
	MOTOR STARTER
	COMBINATION MOTOR STARTER
	CONTACTOR
TS	TIME CLOCK SWITCH CONTROL
S_T	TIME SWITCH
S_M	MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOADS
S_{MT}	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
S_{MF}	MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOADS WITH PILOT LIGHT
	PANELBOARD
PB	PUSHBUTTON STATION TYPE AS NOTED
	MUSHROOM SWITCH
	MOTOR (HORSEPOWER INDICATED ON PLANS)
T	TRANSFORMER
	GENERATOR
MOD	MOTOR OPERATED DAMPER
T	THERMOSTAT
UPS	UNINTERRUPTIBLE POWER SUPPLY
SPD	SURGE PROTECTION DEVICE
	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE

MISCELLANEOUS

C	COMMUNICATION
E	ELECTRIC
E	ELECTRIC SERVICE/DUCTBANK-UNDERGROUND
T	TELEPHONE
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
UE	UNDERGROUND ELECTRIC
	UTILITY POLE
HH-x	HANDHOLE
MH-x	MANHOLE

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70) AS ADOPTED AND AMMENDED BY PHILADELPHIA ELECTRICAL CODE AND THE 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. 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.
4. 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.
5. 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.
6. WALL AND FLOOR PENETRATIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE FIRESTOP AS REQUIRED FOR ALL PENETRATIONS MADE FOR ELECTRICAL WORK.
7. COORDINATE THE COLORS OF WIRING DEVICES AND FACEPLATES WITH THE ARCHITECT.
8. EQUIPMENT AND DEVICES SHALL MATCH THE BUILDING STANDARD.

WIRING METHODS

1. UNDERGROUND
   A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONCRETE ENCASED AND DIRECT BURIED CONDUIT SHALL BE SCHEDULE 40 PVC. WHERE CONDUITS PASS THROUGH GRADE, THROUGH CONCRETE PADS, OR THROUGH BUILDING FOUNDATION WALLS OR FLOOR SLABS CONDUIT SHALL BE PVC COATED.
2. OUTDOORS
   A. UNLESS OTHERWISE NOTED ON THE DRAWINGS CONDUIT INSTALLED OUTDOORS SHALL BE GALVANIZED RIGID STEEL AND FLEXIBLE CONNECTIONS SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
3. INDOORS
   A. IN FINISHED AREAS ALL RACEWAY AND WIRING SHALL BE CONCEALED AND BOXES RECESSES. 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.
   B. IN UNFINISHED [illegible] SUCH AS MECHANICAL AND ELECTRICAL ROOMS WIRING SHALL BE INSTALLED IN EMT.
   C. WIRING IN THE CRAWLSPACE SHALL BE INSTALLED IN RIGID METAL CONDUIT.

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015
(215) 400 - 4730 | (215) 400 - 4731 (fax)
www.philasd.org

SEAL:

ENGINEER OF RECORD:

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

100% SUBMISSION
04/30/2021

NO	DATE	REVISION

SCHOOL & LOCATION
1601 COTTMAN AVE, PHILADELPHIA PA 19111

PROJECT TITLE
AIR CONDITIONING UPGRADE

DRAWING TITLE
ELECTRICAL ABBREVIATIONS & GENERAL NOTES

DRAWING SCALE AS NOTED

LOCATION NO. 8020 — ENGINEER'S PRJ. NO. 068625.001

DRAWN BY FJR — CHECKED BY BAM

MC - B-XXX C OF 2020/21
PC - B-XXX C OF 2020/21
EC - B-XXX C OF 2020/21

DRAWING NO.
E001

Inspection Dates: 5/3/2021, 5/11-12/2021, 5/18-19/2021

Name of Inspector: Suzanne Shourds, Shaluanda Gourdine, Sherif Mohamed, James Arbuckle,

Inspection Company: REPSG, Inc.

School District of Philadelphia

Lead Safe Certification Assessment Report

North East High School (ULCS No. 8020)

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	G	H07A	Circulation (Hallway)	Hallway adjacent to Boiler Room and Crawl Space	N	W1	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	G	H07A	Circulation (Hallway)	Hallway adjacent to Boiler Room and Crawl Space	N	W2	Concrete	Tan	Flaking	20	0	Negative
8020	1	B802001-1	G	H07A	Circulation (Hallway)	Hallway adjacent to Boiler Room and Crawl Space	N	W3	Concrete	Tan	Flaking	10	0	Negative
8020	1	B802001-1	G	H07A	Circulation (Hallway)	Hallway adjacent to Boiler Room and Crawl Space	N	W4	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	G	010F	Administrative Office	Building Engineer's Office adjacent to Boiler Room	N	W1	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	G	010F	Administrative Office	Building Engineer's Office adjacent to Boiler Room	N	W2	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	G	010F	Administrative Office	Building Engineer's Office adjacent to Boiler Room	N	W3	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	G	010F	Administrative Office	Building Engineer's Office adjacent to Boiler Room	N	W4	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	G	H07	Circulation (Hallway)	Hallway outside Building Engineer's Office and Boiler Room	N	W1	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	G	H07	Circulation (Hallway)	Hallway outside Building Engineer's Office and Boiler Room	N	W2	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	G	H07	Circulation (Hallway)	Hallway outside Building Engineer's Office and Boiler Room	N	W3	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	G	H07	Circulation (Hallway)	Hallway outside Building Engineer's Office and Boiler Room	N	W4	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	G	9	Computer - Senior High	Classroom 9	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	9	Computer - Senior High	Classroom 9	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	9	Computer - Senior High	Classroom 9	Y	W3	Concrete	Peach & White	Cracking		0	Negative
8020	1	B802001-1	G	9	Computer - Senior High	Classroom 9	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	10	Senior High	Classroom 10	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	10	Senior High	Classroom 10	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	10	Senior High	Classroom 10	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	10	Senior High	Classroom 10	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	11	Senior High	Classroom 11	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	G	11	Senior High	Classroom 11	Y	W2	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	G	11	Senior High	Classroom 11	Y	W3	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	G	11	Senior High	Classroom 11	Y	W4	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	G	11	Senior High	Classroom 11	Y	Door Frame	Metal	White	Peeling	1	0.12	Negative
8020	1	B802001-1	G	H01B	Circulation (Hallway)	Hallway in Wing D adjacent to Loading Dock	Y	W1	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	H01B	Circulation (Hallway)	Hallway in Wing D adjacent to Loading Dock	Y	W2	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	H01B	Circulation (Hallway)	Hallway in Wing D adjacent to Loading Dock	Y	W3	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	H01B	Circulation (Hallway)	Hallway in Wing D adjacent to Loading Dock	Y	W4	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	12	Computer - Senior High	Classroom 12 Wing D	Y	W1	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	G	12	Computer - Senior High	Classroom 12 Wing D	Y	W2	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	G	12	Computer - Senior High	Classroom 12 Wing D	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	G	12	Computer - Senior High	Classroom 12 Wing D	Y	W4	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	G	13	Senior High	Classroom 13	Y	W1	Concrete	Beige	None	0	0	Negative
8020	1	B802001-1	G	13	Senior High	Classroom 13	Y	W2	Concrete	Beige	None	0	N/A	N/A
8020	1	B802001-1	G	13	Senior High	Classroom 13	Y	W3	Concrete	Beige/Dark Grey	None	0	0	Negative
8020	1	B802001-1	G	13	Senior High	Classroom 13	Y	W4	Concrete	Beige	None	0	N/A	N/A
8020	1	B802001-1	G	15	Computer - Senior High	Classroom 15	Y	W1	Concrete	Peach/White	Chipping		0	Negative
8020	1	B802001-1	G	15	Computer - Senior High	Classroom 15	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	G	15	Computer - Senior High	Classroom 15	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	G	15	Computer - Senior High	Classroom 15	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	G	015A	Storage	Storage Room in Classroom 15	Y	W1	Concrete	Light blue/White	None	0	N/A	N/A
8020	1	B802001-1	G	015A	Storage	Storage Room in Classroom 15	Y	W2	Concrete	Light blue/White	Chipping		0	Negative
8020	1	B802001-1	G	015A	Storage	Storage Room in Classroom 15	Y	W3	Concrete	Light blue/White	None	0	N/A	N/A
8020	1	B802001-1	G	015A	Storage	Storage Room in Classroom 15	Y	W4	Concrete	Light blue/White	Chipping		0	Negative
8020	1	B802001-1	G	H02	Circulation (Hallway)	Hallway in Wing D between Loading Dock Hallway and Classroom 016	Y	W1	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	H02	Circulation (Hallway)	Hallway in Wing D between Loading Dock Hallway and Classroom 016	Y	W2	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	H02	Circulation (Hallway)	Hallway in Wing D between Loading Dock Hallway and Classroom 016	Y	W3	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	H02	Circulation (Hallway)	Hallway in Wing D between Loading Dock Hallway and Classroom 016	Y	W4	Concrete	Blue & White	Chipping		0	Negative
8020	1	B802001-1	G	015B	Female (4-12)	Girl's Restroom across the Hallway from Classroom 16B	Y	W1	Concrete	Peach/White	Chipping		0	Negative
8020	1	B802001-1	G	015B	Female (4-12)	Girl's Restroom across the Hallway from Classroom 16B	Y	W2	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	015B	Female (4-12)	Girl's Restroom across the Hallway from Classroom 16B	Y	W3	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	015B	Female (4-12)	Girl's Restroom across the Hallway from Classroom 16B	Y	W4	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	021J	(4-12)	Boy's Restroom across the Hallway from Classroom 17C	Y	W1	Concrete	Peach & White	None	0	0.05	Negative
8020	1	B802001-1	G	021J	(4-12)	Boy's Restroom across the Hallway from Classroom 17C	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	021J	(4-12)	Boy's Restroom across the Hallway from Classroom 17C	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	021J	(4-12)	Boy's Restroom across the Hallway from Classroom 17C	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	018C	Senior High	Classroom 18C	Y	W1	Sheetrock	Peach & White	Cracking		0	Negative
8020	1	B802001-1	G	018C	Senior High	Classroom 18C	Y	W2	Sheetrock	Peach & White	Cracking		0	Negative
8020	1	B802001-1	G	018C	Senior High	Classroom 18C	Y	W3	Sheetrock	Peach & White	Cracking		0	Negative
8020	1	B802001-1	G	018C	Senior High	Classroom 18C	Y	W4	Sheetrock	Peach & White	Cracking		0	Negative
8020	1	B802001-1	G	019B	Senior High	Classroom 19B	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	019B	Senior High	Classroom 19B	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	019B	Senior High	Classroom 19B	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	019B	Senior High	Classroom 19B	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	017B	Senior High	Classroom 17B	Y	W1	Sheetrock	Peach & White	Chipping		0	Negative

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	G	017B	Senior High	Classroom 17B	Y	W2	Sheetrock	Peach & White	Chipping		0	Negative
8020	1	B802001-1	G	017B	Senior High	Classroom 17B	Y	W3	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	G	017B	Senior High	Classroom 17B	Y	W4	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	G	8	Senior High	Classroom 8	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	8	Senior High	Classroom 8	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	8	Senior High	Classroom 8	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	8	Senior High	Classroom 8	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	7	Senior High	Classroom 7	Y	W1	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	G	7	Senior High	Classroom 7	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	7	Senior High	Classroom 7	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	7	Senior High	Classroom 7	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	6	Senior High	Classroom 6	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	6	Senior High	Classroom 6	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	6	Senior High	Classroom 6	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	6	Senior High	Classroom 6	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	55	Female (4-12)	Girl's Restroom adjacent to Classroom 6	Y	W1	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	G	55	Female (4-12)	Girl's Restroom adjacent to Classroom 6	Y	W2	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	G	55	Female (4-12)	Girl's Restroom adjacent to Classroom 6	Y	W3	Concrete	Beige & White	Cracking		0.01	Negative
8020	1	B802001-1	G	55	Female (4-12)	Girl's Restroom adjacent to Classroom 6	Y	W4	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	G	H01M	Circulation (Hallway)	Hallway between Classroom 8 and Classroom 6	Y	W1	Concrete	Yellow & White	Cracking		0.06	Negative
8020	1	B802001-1	G	H01M	Circulation (Hallway)	Hallway between Classroom 8 and Classroom 6	Y	W2	Concrete	Yellow & White	Cracking		0	Negative
8020	1	B802001-1	G	H01M	Circulation (Hallway)	Hallway between Classroom 8 and Classroom 6	Y	W3	Concrete	Yellow & White	Cracking		0.03	Negative
8020	1	B802001-1	G	H01M	Circulation (Hallway)	Hallway between Classroom 8 and Classroom 6	Y	W4	Concrete	Yellow & White	Cracking		0	Negative
8020	1	B802001-1	G	5	Senior High	Classroom 5	Y	W1	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	G	5	Senior High	Classroom 5	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	5	Senior High	Classroom 5	Y	W3	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	G	5	Senior High	Classroom 5	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	4	Senior High	Classroom 4	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	4	Senior High	Classroom 4	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	4	Senior High	Classroom 4	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	4	Senior High	Classroom 4	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	3	Senior High	Classroom 3	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	3	Senior High	Classroom 3	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	3	Senior High	Classroom 3	Y	W3	Concrete	Peach & White	Cracking		0	Negative
8020	1	B802001-1	G	3	Senior High	Classroom 3	Y	W4	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	2	Senior High	Classroom 2	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	2	Senior High	Classroom 2	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	2	Senior High	Classroom 2	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	2	Senior High	Classroom 2	Y	W4	Sheetrock	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	1	Senior High	Classroom 1	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	1	Senior High	Classroom 1	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	1	Senior High	Classroom 1	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	1	Senior High	Classroom 1	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	H01M	Circulation (Hallway)	Hallway between Classroom 8 and Classroom 6	Y	Door Frame	Metal	Yellow	Peeling	1	0.04	Negative
8020	1	B802001-1	G	H01N	Circulation (Hallway)	Hallway between Classroom 1 and Classroom 5	Y	W1	Concrete	Yellow & White	Cracking		0.01	Negative
8020	1	B802001-1	G	H01N	Circulation (Hallway)	Hallway between Classroom 1 and Classroom 5	Y	W2	Concrete	Yellow & White	Cracking		0.03	Negative
8020	1	B802001-1	G	H01N	Circulation (Hallway)	Hallway between Classroom 1 and Classroom 5	Y	W3	Concrete	Yellow & White	Cracking		0.03	Negative
8020	1	B802001-1	G	H01N	Circulation (Hallway)	Hallway between Classroom 1 and Classroom 5	Y	W4	Concrete	Yellow & White	Cracking		0	Negative
8020	1	B802001-1	G	25	Senior High	Office 25	Y	W1	Concrete	Peach/White	Cracking		0	Negative
8020	1	B802001-1	G	25	Senior High	Office 25	Y	W2	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	25	Senior High	Office 25	Y	W3	Concrete	Peach/White	None	0	0	Negative
8020	1	B802001-1	G	25	Senior High	Office 25	Y	W4	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	24	Senior High	Classroom 24	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	24	Senior High	Classroom 24	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	24	Senior High	Classroom 24	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	G	24	Senior High	Classroom 24	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	G	23	Senior High	Classroom 23	Y	W1	Concrete	Peach/White	None	0	0	Negative
8020	1	B802001-1	G	23	Senior High	Classroom 23	Y	W2	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	23	Senior High	Classroom 23	Y	W3	Concrete	Peach/White	Alligatoring		0	Negative
8020	1	B802001-1	G	23	Senior High	Classroom 23	Y	W4	Concrete	Peach/White	None	0	N/A	N/A
8020	1	B802001-1	G	23A	(4-12)	Boy's Restroom adjacent to Cafeteria	Y	W1	Concrete	Yellow	Cracking		0	Negative
8020	1	B802001-1	G	23A	(4-12)	Boy's Restroom adjacent to Cafeteria	Y	W1	Concrete	White	Cracking		0.07	Negative
8020	1	B802001-1	G	H02A	Circulation (Hallway)	Hallway between Stairwell M and Office 25	Y	W1	Concrete	Yellow	Cracking		0.09	Negative
8020	1	B802001-1	G	H02A	Circulation (Hallway)	Hallway between Stairwell M and Office 25	Y	W2	Concrete	Yellow	Cracking		0	Negative
8020	1	B802001-1	G	H02A	Circulation (Hallway)	Hallway between Stairwell M and Office 25	Y	W2	Concrete	White	Cracking		0.03	Negative
8020	1	B802001-1	G	H02A	Circulation (Hallway)	Hallway between Stairwell M and Office 25	Y	W3	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	G	H02A	Circulation (Hallway)	Hallway between Stairwell M and Office 25	Y	W4	Concrete	Yellow	Cracking		0	Negative
8020	1	B802001-1	G	H02A	Circulation (Hallway)	Hallway between Stairwell M and Office 25	Y	W4	Concrete	White	Cracking		0.01	Negative
8020	1	B802001-1	G	44	Cafeteria (Dining Area)	Cafeteria	Y	W1	Ceramic Tile	Gray	Cracking	1	>1	Positive
8020	1	B802001-1	G	44	Cafeteria (Dining Area)	Cafeteria	Y	W2	Concrete	Blue	Cracking		0	Negative
8020	1	B802001-1	G	44	Cafeteria (Dining Area)	Cafeteria	Y	W4	Concrete	Blue	Cracking		0	Negative
8020	1	B802001-1	G	44	Cafeteria (Dining Area)	Cafeteria	Y	Column	Concrete	Orange	Chipping		0	Negative

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	G	020C	(4-12)	Boy's Restroom at Appreciate Ave and J Stairwell	Y	W1	Concrete	Yellow/White	Cracking		0	Negative
8020	1	B802001-1	G	020C	(4-12)	Boy's Restroom at Appreciate Ave and J Stairwell	Y	W2	Concrete	Yellow/White	None	0	N/A	N/A
8020	1	B802001-1	G	020C	(4-12)	Boy's Restroom at Appreciate Ave and J Stairwell	Y	W3	Concrete	Yellow/White	None	0	0	Negative
8020	1	B802001-1	G	020C	(4-12)	Boy's Restroom at Appreciate Ave and J Stairwell	Y	W4	Concrete	Yellow/White	None	0	N/A	N/A
8020	1	B802001-1	G	H01	Circulation (Hallway)	Hallway between Room 21C and Cafeteria	Y	W1	Concrete	Yellow/White	Cracking		0	Negative
8020	1	B802001-1	G	H01	Circulation (Hallway)	Hallway between Room 21C and Cafeteria	Y	W2	Concrete	Yellow/White	Cracking		0	Negative
8020	1	B802001-1	G	H01	Circulation (Hallway)	Hallway between Room 21C and Cafeteria	Y	W3	Concrete	Yellow/White	Cracking		0.01	Negative
8020	1	B802001-1	G	H01	Circulation (Hallway)	Hallway between Room 21C and Cafeteria	Y	W4	Concrete	Yellow	Cracking		0.01	Negative
8020	1	B802001-1	G	H01	Circulation (Hallway)	Hallway between Room 21C and Cafeteria	Y	W4	Concrete	White	Cracking		0	Negative
8020	1	B802001-1	G	22	Female (4-12)	Girl's Restroom adjacent to Cafeteria Kitchen	Y	W1	Concrete	White	Chipping		0	Negative
8020	1	B802001-2	G	33	Senior High	Classroom 33	Y	W1	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-2	G	33	Senior High	Classroom 33	Y	W2	Sheetrock	Peach	Chipping		0	Negative
8020	1	B802001-2	G	33	Senior High	Classroom 33	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-2	G	33	Senior High	Classroom 33	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-2	G	35	Administrative Office	Office 35	Y	W1	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-2	G	35	Administrative Office	Office 35	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-2	G	35	Administrative Office	Office 35	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-2	G	35	Administrative Office	Office 35	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-2	G	34	Senior High	Classroom 34	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-2	G	34	Senior High	Classroom 34	Y	W2	Sheetrock	Peach & White	None	0	0	Negative
8020	1	B802001-2	G	34	Senior High	Classroom 34	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-2	G	34	Senior High	Classroom 34	Y	W4	Sheetrock	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	162	Senior High	Classroom 162	Y	W1	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	1	162	Senior High	Classroom 162	Y	W2	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	1	162	Senior High	Classroom 162	Y	W3	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	1	162	Senior High	Classroom 162	Y	W4	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	1	109	Senior High -- Science Lab	Classroom 109	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	109	Senior High -- Science Lab	Classroom 109	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	109	Senior High -- Science Lab	Classroom 109	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	109	Senior High -- Science Lab	Classroom 109	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	111	Senior High -- Science Lab	Classroom 111	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	111	Senior High -- Science Lab	Classroom 111	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	111	Senior High -- Science Lab	Classroom 111	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	111	Senior High -- Science Lab	Classroom 111	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	H17	Circulation (Hallway)	Hallway between Classroom 109 and Classroom 111	Y	W1	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H17	Circulation (Hallway)	Hallway between Classroom 109 and Classroom 111	Y	W2	Concrete	Beige & White	Chipping		0.03	Negative
8020	1	B802001-1	1	H17	Circulation (Hallway)	Hallway between Classroom 109 and Classroom 111	Y	W3	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H17	Circulation (Hallway)	Hallway between Classroom 109 and Classroom 111	Y	W4	Concrete	Beige & White	Chipping	10	1	Positive
8020	1	B802001-1	1	107	Mail Room	Room 107 Mail Room	Y	W1	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	1	107	Mail Room	Room 107 Mail Room	Y	W2	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	1	107	Mail Room	Room 107 Mail Room	Y	W3	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	1	107	Mail Room	Room 107 Mail Room	Y	W4	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	1	105	Administrative Office	Room 105	Y	W1	No Access	No Access	No Access	No Access	No Access	No Access
8020	1	B802001-1	1	105	Administrative Office	Room 105	Y	W2	No Access	No Access	No Access	No Access	No Access	No Access
8020	1	B802001-1	1	105	Administrative Office	Room 105	Y	W3	No Access	No Access	No Access	No Access	No Access	No Access
8020	1	B802001-1	1	105	Administrative Office	Room 105	Y	W4	No Access	No Access	No Access	No Access	No Access	No Access
8020	1	B802001-1	1	101	Reception Area	Main Office Open Area	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	101	Reception Area	Main Office Open Area	Y	W2	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	101	Reception Area	Main Office Open Area	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	101	Reception Area	Main Office Open Area	Y	W4	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	Y	W1	Concrete	Beige & White	Chipping	10	1.07	Positive
8020	1	B802001-1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	Y	W2	Concrete	Beige & White	Chipping	10	1	Positive
8020	1	B802001-1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	Y	W3	Concrete	Beige & White	Chipping	10	1.25	Positive
8020	1	B802001-1	1	H13A	Circulation (Hallway)	Hallway between Main Office and Counselor's 103 Suites	Y	W4	Concrete	Beige & White	Chipping	10	1	Positive
8020	1	B802001-1	1	100	Administrative Office	School Services Room 100	Y	W1	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	100	Administrative Office	School Services Room 100	Y	W2	Sheetrock	Blue	None	0	N/A	N/A
8020	1	B802001-1	1	100	Administrative Office	School Services Room 100	Y	W3	Sheetrock	Blue	None	0	N/A	N/A
8020	1	B802001-1	1	100	Administrative Office	School Services Room 100	Y	W4	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	102	Administrative Office	Room 102 Roster Office	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	102	Administrative Office	Room 102 Roster Office	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	102	Administrative Office	Room 102 Roster Office	Y	W3	Concrete	Peach & White	None	0	0	None
8020	1	B802001-1	1	102	Administrative Office	Room 102 Roster Office	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	104	Administrative Office	College and Career Room 104	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	104	Administrative Office	College and Career Room 104	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	104	Administrative Office	College and Career Room 104	Y	W3	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	104	Administrative Office	College and Career Room 104	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	108	Senior High -- Science Lab	Classroom 108	Y	W1	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	1	108	Senior High -- Science Lab	Classroom 108	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	108	Senior High -- Science Lab	Classroom 108	Y	W3	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	1	108	Senior High -- Science Lab	Classroom 108	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	112	Senior High -- Science Lab	Classroom 112	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	112	Senior High -- Science Lab	Classroom 112	Y	W2	Concrete	Peach & White	None	0	N/A	N/A

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	1	112	Senior High -- Science Lab	Classroom 112	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	112	Senior High -- Science Lab	Classroom 112	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	106	Senior High -- Science Lab	Classroom 106	Y	W1	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	1	106	Senior High -- Science Lab	Classroom 106	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	106	Senior High -- Science Lab	Classroom 106	Y	W3	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	1	106	Senior High -- Science Lab	Classroom 106	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	110	Senior High -- Science Lab	Classroom 110	Y	W1	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	1	110	Senior High -- Science Lab	Classroom 110	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	110	Senior High -- Science Lab	Classroom 110	Y	W3	Concrete	Peach & White	Chipping		0	Negative
8020	1	B802001-1	1	110	Senior High -- Science Lab	Classroom 110	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	114	Senior High -- Science Lab	Classroom 114	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	114	Senior High -- Science Lab	Classroom 114	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	114	Senior High -- Science Lab	Classroom 114	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	114	Senior High -- Science Lab	Classroom 114	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	116	Senior High -- Science Lab	Classroom 116	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	116	Senior High -- Science Lab	Classroom 116	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	116	Senior High -- Science Lab	Classroom 116	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	116	Senior High -- Science Lab	Classroom 116	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	118	Senior High -- Science Lab	Classroom 118	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	118	Senior High -- Science Lab	Classroom 118	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	118	Senior High -- Science Lab	Classroom 118	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	118	Senior High -- Science Lab	Classroom 118	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120A	Administrative Office	Room 120A	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120A	Administrative Office	Room 120A	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120A	Administrative Office	Room 120A	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120A	Administrative Office	Room 120A	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120	Senior High	Classroom 120	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120	Senior High	Classroom 120	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120	Senior High	Classroom 120	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	120	Senior High	Classroom 120	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	122	Art - Senior High	Classroom 122	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	122	Art - Senior High	Classroom 122	Y	W2	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	122	Art - Senior High	Classroom 122	Y	W2	Concrete	Multi (Paint Splatter)	None	0	1	Positive
8020	1	B802001-1	1	122	Art - Senior High	Classroom 122	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	122	Art - Senior High	Classroom 122	Y	W4	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	1	134	Conference Room	SLC Coordinator Room	Y	W1	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	134	Conference Room	SLC Coordinator Room	Y	W2	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-1	1	134	Conference Room	SLC Coordinator Room	Y	W3	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	134	Conference Room	SLC Coordinator Room	Y	W4	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-1	1	140	Senior High	Classroom 140	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	140	Senior High	Classroom 140	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	140	Senior High	Classroom 140	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	140	Senior High	Classroom 140	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	132	Senior High	Classroom 132	Y	W1	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	132	Senior High	Classroom 132	Y	W2	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-1	1	132	Senior High	Classroom 132	Y	W3	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	132	Senior High	Classroom 132	Y	W4	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-1	1	126	Senior High	Classroom 126	Y	W1	Concrete	Peach	Efflorescence		0	Negative
8020	1	B802001-1	1	126	Senior High	Classroom 126	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	126	Senior High	Classroom 126	Y	W3	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	126	Senior High	Classroom 126	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	124	Art - Senior High	Classroom 124	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	124	Art - Senior High	Classroom 124	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	124	Art - Senior High	Classroom 124	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	1	124	Art - Senior High	Classroom 124	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-3	1	150	Senior High	Classroom 150	Y	W1	Concrete	Peach	Chipping		0.01	Negative
8020	1	B802001-3	1	150	Senior High	Classroom 150	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	150	Senior High	Classroom 150	Y	W3	Concrete	Peach	Ijjsviwgirgi		0.02	Negative
8020	1	B802001-3	1	150	Senior High	Classroom 150	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	152A	Senior High	Classroom 152A	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-3	1	152A	Senior High	Classroom 152A	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	152A	Senior High	Classroom 152A	Y	W3	Concrete	Peach	None	0	0	Negative
8020	1	B802001-3	1	152A	Senior High	Classroom 152A	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	154	Senior High	Classroom 154	Y	W1	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-3	1	154	Senior High	Classroom 154	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	154	Senior High	Classroom 154	Y	W3	Concrete	Peach	Ijjsviwgirgi		0.02	Negative
8020	1	B802001-3	1	154	Senior High	Classroom 154	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	156	Senior High	Classroom 156	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-3	1	156	Senior High	Classroom 156	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	156	Senior High	Classroom 156	Y	W3	Concrete	Peach	None	0	0.02	Negative
8020	1	B802001-3	1	156	Senior High	Classroom 156	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-3	1	158	Senior High	Classroom 158	Y	W1	Concrete	Blue	None	0	0	Negative

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-3	1	158	Senior High	Classroom 158	Y	W2	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-3	1	158	Senior High	Classroom 158	Y	W3	Concrete	Blue	Ijjsviwgirgi		0.01	Negative
8020	1	B802001-3	1	158	Senior High	Classroom 158	Y	W4	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-3	1	160	Senior High	Classroom 160	Y	W1	Concrete	Blue	None	0	0	Negative
8020	1	B802001-3	1	160	Senior High	Classroom 160	Y	W2	Concrete	Blue	None	0	N/A	N/A
8020	1	B802001-3	1	160	Senior High	Classroom 160	Y	W3	Concrete	Blue	Ijjsviwgirgi		0.1	Negative
8020	1	B802001-3	1	160	Senior High	Classroom 160	Y	W4	Concrete	Blue	Chipping		0	Negative
8020	1	B802001-1	1	H12J	Circulation (Hallway)	Hallway between Classroom 160 and Classroom 152A	Y	W1	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	H12J	Circulation (Hallway)	Hallway between Classroom 160 and Classroom 152A	Y	W2	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	H12J	Circulation (Hallway)	Hallway between Classroom 160 and Classroom 152A	Y	W3	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	H12J	Circulation (Hallway)	Hallway between Classroom 160 and Classroom 152A	Y	W4	Concrete	Blue	None	0	0	Negative
8020	1	B802001-1	1	H19	Circulation (Hallway)	Hallway between Classroom 108 and Classroom 118	Y	W1	Concrete	Beige & White	Chipping		0.01	Negative
8020	1	B802001-1	1	H19	Circulation (Hallway)	Hallway between Classroom 108 and Classroom 118	Y	W2	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H19	Circulation (Hallway)	Hallway between Classroom 108 and Classroom 118	Y	W3	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H19	Circulation (Hallway)	Hallway between Classroom 108 and Classroom 118	Y	W4	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H19A	Circulation (Hallway)	Hallway between Classroom 120 and Room 120A	Y	W1	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H19A	Circulation (Hallway)	Hallway between Classroom 120 and Room 120A	Y	W2	Concrete	Beige & White	Chipping		0.1	Negative
8020	1	B802001-1	1	H19A	Circulation (Hallway)	Hallway between Classroom 120 and Room 120A	Y	W3	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H19A	Circulation (Hallway)	Hallway between Classroom 120 and Room 120A	Y	W4	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H11	Circulation (Hallway)	Hallway between Classroom 138 and Classroom 130	Y	W1	Concrete	Purple/Blue	Chipping		0.02	Negative
8020	1	B802001-1	1	H11	Circulation (Hallway)	Hallway between Classroom 138 and Classroom 130	Y	W2	Concrete	Purple/Blue	Chipping		0	Negative
8020	1	B802001-1	1	H11	Circulation (Hallway)	Hallway between Classroom 138 and Classroom 130	Y	W3	Concrete	Purple/Blue	Chipping		0.01	Negative
8020	1	B802001-1	1	H11	Circulation (Hallway)	Hallway between Classroom 138 and Classroom 130	Y	W4	Concrete	Purple/Blue	Chipping		0	Negative
8020	1	B802001-1	1	H11A	Circulation (Hallway)	Hallway between Classroom 126 and Room 126A	Y	W1	Concrete	Purple/Blue	Chipping		0.01	Negative
8020	1	B802001-1	1	H11A	Circulation (Hallway)	Hallway between Classroom 126 and Room 126A	Y	W2	Concrete	Purple/Blue	Chipping		0	Negative
8020	1	B802001-1	1	H11A	Circulation (Hallway)	Hallway between Classroom 126 and Room 126A	Y	W3	Concrete	Purple/Blue	Chipping		0	Negative
8020	1	B802001-1	1	H11A	Circulation (Hallway)	Hallway between Classroom 126 and Room 126A	Y	W4	Concrete	Purple/Blue	Chipping		0.02	Negative
8020	1	B802001-1	1	113	Senior High	Classroom 113	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	113	Senior High	Classroom 113	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	113	Senior High	Classroom 113	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	113	Senior High	Classroom 113	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	115	Senior High	Classroom 115	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	115	Senior High	Classroom 115	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	115	Senior High	Classroom 115	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	115	Senior High	Classroom 115	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	H14C	Circulation (Hallway)	Hallway from Classroom 115 to Stairwell Q	Y	W1	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H14C	Circulation (Hallway)	Hallway from Classroom 115 to Stairwell Q	Y	W2	Concrete	Beige & White	Chipping		0.03	Negative
8020	1	B802001-1	1	H14C	Circulation (Hallway)	Hallway from Classroom 115 to Stairwell Q	Y	W3	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H14C	Circulation (Hallway)	Hallway from Classroom 115 to Stairwell Q	Y	W4	Concrete	Beige & White	Chipping	10	1	Positive
8020	1	B802001-1	1	H14	Circulation (Hallway)	Hallway from Classroom 117 to Classroom 131	Y	W1	Concrete	Blue	Cracking		0.03	Negative
8020	1	B802001-1	1	H14	Circulation (Hallway)	Hallway from Classroom 117 to Classroom 131	Y	W2	Concrete	Blue	Cracking		0.01	Negative
8020	1	B802001-1	1	H14	Circulation (Hallway)	Hallway from Classroom 117 to Classroom 131	Y	W3	Concrete	Blue	Cracking		0.02	Negative
8020	1	B802001-1	1	H14	Circulation (Hallway)	Hallway from Classroom 117 to Classroom 131	Y	W4	Concrete	Blue	Cracking		0	Negative
8020	1	B802001-1	1	117	Senior High	Classroom 117	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	117	Senior High	Classroom 117	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	117	Senior High	Classroom 117	Y	W3	Concrete	Peach	Cracking		0	Negative
8020	1	B802001-1	1	117	Senior High	Classroom 117	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	119	Senior High	Classroom 119	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	119	Senior High	Classroom 119	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	119	Senior High	Classroom 119	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	119	Senior High	Classroom 119	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	121	Senior High	Classroom 121	Y	W1	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	121	Senior High	Classroom 121	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	121	Senior High	Classroom 121	Y	W3	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	121	Senior High	Classroom 121	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	123	Senior High	Classroom 123	Y	W1	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	123	Senior High	Classroom 123	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	123	Senior High	Classroom 123	Y	W3	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	123	Senior High	Classroom 123	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	125	Senior High	Classroom 125	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	125	Senior High	Classroom 125	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	125	Senior High	Classroom 125	Y	W3	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	125	Senior High	Classroom 125	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	127	Senior High	Classroom 127	Y	W1	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	127	Senior High	Classroom 127	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	127	Senior High	Classroom 127	Y	W3	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	127	Senior High	Classroom 127	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	133	Music	Chorus Room 133	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	133	Music	Chorus Room 133	Y	W2	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	133	Music	Chorus Room 133	Y	W3	Concrete	Peach	Cracking		0	Negative
8020	1	B802001-1	1	133	Music	Chorus Room 133	Y	W4	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	H13	Circulation (Hallway)	Hallway from Chorus Room 133 to Classroom 131	Y	W1	Concrete	Blue	Chipping		0.03	Negative

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	1	H13	Circulation (Hallway)	Hallway from Chorus Room 133 to Classroom 131	Y	W2	Concrete	Blue	Chipping		0.01	Negative
8020	1	B802001-1	1	H13	Circulation (Hallway)	Hallway from Chorus Room 133 to Classroom 131	Y	W3	Concrete	Blue	Chipping		0.02	Negative
8020	1	B802001-1	1	H13	Circulation (Hallway)	Hallway from Chorus Room 133 to Classroom 131	Y	W4	Concrete	Blue	Chipping		0	Negative
8020	1	B802001-1	1	137	Senior High	Classroom 137	Y	W1	Concrete	Peach	None	0	0	Negative
8020	1	B802001-1	1	137	Senior High	Classroom 137	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	137	Senior High	Classroom 137	Y	W3	Concrete	Peach	Chipping		0	Negative
8020	1	B802001-1	1	137	Senior High	Classroom 137	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	141	Storage	Classroom 141	Y	W1	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	1	141	Storage	Classroom 141	Y	W2	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	1	141	Storage	Classroom 141	Y	W3	Concrete	Tan	Chipping		0	Negative
8020	1	B802001-1	1	141	Storage	Classroom 141	Y	W4	Concrete	Tan	None	0	N/A	N/A
8020	1	B802001-1	1	141C	Administrative Office	Nurse's Office 145	Y	W1	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	141C	Administrative Office	Nurse's Office 145	Y	W2	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	141C	Administrative Office	Nurse's Office 145	Y	W3	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	141C	Administrative Office	Nurse's Office 145	Y	W4	Concrete	Peach	None	0	N/A	N/A
8020	1	B802001-1	1	141G	Circulation (Hallway)	Hallway from Nurse's Office to Copy Room	Y	W1	Concrete	Beige & White	Cracking		0	Negative
8020	1	B802001-1	1	141G	Circulation (Hallway)	Hallway from Nurse's Office to Copy Room	Y	W2	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	141G	Circulation (Hallway)	Hallway from Nurse's Office to Copy Room	Y	W3	Concrete	Beige & White	Cracking		0	Negative
8020	1	B802001-1	1	141G	Circulation (Hallway)	Hallway from Nurse's Office to Copy Room	Y	W4	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	141H	Circulation (Hallway)	Hallway from Nurse's Office to Speech and Hearing Room	Y	W1	Concrete	Beige & White	Cracking		0	Negative
8020	1	B802001-1	1	141H	Circulation (Hallway)	Hallway from Nurse's Office to Speech and Hearing Room	Y	W2	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	141H	Circulation (Hallway)	Hallway from Nurse's Office to Speech and Hearing Room	Y	W3	Concrete	Beige & White	Cracking		0	Negative
8020	1	B802001-1	1	141H	Circulation (Hallway)	Hallway from Nurse's Office to Speech and Hearing Room	Y	W4	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H12	Circulation (Hallway)	Hallway from Classroom 137 to Main Office	Y	W1	Concrete	Beige & White	Cracking		0	Negative
8020	1	B802001-1	1	H12	Circulation (Hallway)	Hallway from Classroom 137 to Main Office	Y	W2	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	H12	Circulation (Hallway)	Hallway from Classroom 137 to Main Office	Y	W3	Concrete	Beige & White	Cracking		0	Negative
8020	1	B802001-1	1	H12	Circulation (Hallway)	Hallway from Classroom 137 to Main Office	Y	W4	Concrete	Beige & White	Chipping		0	Negative
8020	1	B802001-1	1	143	Administrative Office	Alumni Office 143	Y	W1	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	1	143	Administrative Office	Alumni Office 143	Y	W2	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	1	143	Administrative Office	Alumni Office 143	Y	W3	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	1	143	Administrative Office	Alumni Office 143	Y	W4	Concrete	Tan	None	0	0	Negative
8020	1	B802001-1	1	147	Auditorium	Auditorium Stage	Y	W1	Concrete	Beige	None	0	0	Negative
8020	1	B802001-1	1	147	Auditorium	Auditorium Stage	Y	W2	Concrete	Beige	None	0	0	Negative
8020	1	B802001-1	1	147	Auditorium	Auditorium Stage	Y	W3	Concrete	Beige	None	0	0	Negative
8020	1	B802001-1	1	147	Auditorium	Auditorium Stage	Y	W4	Concrete	Beige	None	0	0	Negative
8020	1	B802001-1	1	147B	Circulation (Hallway)	Auditorium Stage Hallway	Y	W1	Concrete	Blue	Cracking		0.03	Negative
8020	1	B802001-1	1	147B	Circulation (Hallway)	Auditorium Stage Hallway	Y	W2	Concrete	Blue	Cracking		0.01	Negative
8020	1	B802001-1	1	147B	Circulation (Hallway)	Auditorium Stage Hallway	Y	W3	Concrete	Blue	Cracking		0.02	Negative
8020	1	B802001-1	1	147B	Circulation (Hallway)	Auditorium Stage Hallway	Y	W4	Concrete	Blue	Cracking		0	Negative
8020	1	B802001-1	2	219B	Senior High	Classroom 219B	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	219B	Senior High	Classroom 219B	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	219B	Senior High	Classroom 219B	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	219B	Senior High	Classroom 219B	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	219A	Senior High	Classroom 219A	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	219A	Senior High	Classroom 219A	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	219A	Senior High	Classroom 219A	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	219A	Senior High	Classroom 219A	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221A	Senior High	Classroom 221A	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221A	Senior High	Classroom 221A	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221A	Senior High	Classroom 221A	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221A	Senior High	Classroom 221A	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221B	Senior High	Classroom 221B	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221B	Senior High	Classroom 221B	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221B	Senior High	Classroom 221B	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	221B	Senior High	Classroom 221B	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	223C	Senior High	Classroom 223C	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	223C	Senior High	Classroom 223C	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	223C	Senior High	Classroom 223C	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	223C	Senior High	Classroom 223C	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	223A	Senior High	Classroom 223A	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	223A	Senior High	Classroom 223A	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	223A	Senior High	Classroom 223A	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	223A	Senior High	Classroom 223A	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227A	Senior High	Classroom 227A	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227A	Senior High	Classroom 227A	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227A	Senior High	Classroom 227A	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227A	Senior High	Classroom 227A	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227B	Senior High	Classroom 227B	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227B	Senior High	Classroom 227B	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	227B	Senior High	Classroom 227B	Y	W3	Concrete	Peach & White	Cracking	1		
8020	1	B802001-1	2	227B	Senior High	Classroom 227B	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H27B	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell K	Y	W1	Concrete	White	None	0	0.1	Negative

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	2	H27B	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell K	Y	W2	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H27B	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell K	Y	W3	Concrete	White	None	0	0.01	Negative
8020	1	B802001-1	2	H27B	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell K	Y	W4	Concrete	White	None	0	0.02	Negative
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway from Stairwell K to Classroom 227A	Y	W1	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway from Stairwell K to Classroom 227A	Y	W2	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway from Stairwell K to Classroom 227A	Y	W3	Concrete	White	None	0	0.01	Negative
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway from Stairwell K to Classroom 227A	Y	W4	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	229C	Senior High	Classroom 229C	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	229C	Senior High	Classroom 229C	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	229C	Senior High	Classroom 229C	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	229C	Senior High	Classroom 229C	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	229B	Senior High	Classroom 229B	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	229B	Senior High	Classroom 229B	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	229B	Senior High	Classroom 229B	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	229B	Senior High	Classroom 229B	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	231	Senior High	Classroom 231	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	231	Senior High	Classroom 231	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	231	Senior High	Classroom 231	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	231	Senior High	Classroom 231	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	233	Senior High	Classroom 233	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	233	Senior High	Classroom 233	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	233	Senior High	Classroom 233	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	233	Senior High	Classroom 233	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	235	Senior High	Classroom 235	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	235	Senior High	Classroom 235	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	235	Senior High	Classroom 235	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	235	Senior High	Classroom 235	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway Classroom 227A to Teacher's Lounge	Y	W1	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway Classroom 227A to Teacher's Lounge	Y	W2	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway Classroom 227A to Teacher's Lounge	Y	W3	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27A	Circulation (Hallway)	Second Floor Hallway Classroom 227A to Teacher's Lounge	Y	W4	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	214	Senior High	Classroom 214	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	214	Senior High	Classroom 214	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	214	Senior High	Classroom 214	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	214	Senior High	Classroom 214	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H29	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Classroom 214	Y	W1	Concrete	White	None	0	0.01	Negative
8020	1	B802001-1	2	H29	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Classroom 214	Y	W2	Concrete	White	None	0	0.05	Negative
8020	1	B802001-1	2	H29	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Classroom 214	Y	W3	Concrete	White	None	0	0.04	Negative
8020	1	B802001-1	2	H29	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Classroom 214	Y	W4	Concrete	White	None	0	0.02	Negative
8020	1	B802001-1	2	216	Senior High	Classroom 216	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	216	Senior High	Classroom 216	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	216	Senior High	Classroom 216	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	216	Senior High	Classroom 216	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	218	Senior High	Classroom 218	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	218	Senior High	Classroom 218	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	218	Senior High	Classroom 218	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	218	Senior High	Classroom 218	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	220	Senior High	Classroom 220	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	220	Senior High	Classroom 220	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	220	Senior High	Classroom 220	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	220	Senior High	Classroom 220	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	222	Senior High	Classroom 222	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	222	Senior High	Classroom 222	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	222	Senior High	Classroom 222	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	222	Senior High	Classroom 222	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	226	IMC (Library)	Library	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	226	IMC (Library)	Library	Y	W2	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	226	IMC (Library)	Library	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	226	IMC (Library)	Library	Y	W4	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	H26	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Library	Y	W1	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H26	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Library	Y	W2	Concrete	White	None	0	1	Positive
8020	1	B802001-1	2	H26	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Library	Y	W3	Concrete	White	None	0	1	Positive
8020	1	B802001-1	2	H26	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Library	Y	W4	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H28	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Library	Y	W1	Concrete	White	None	0	0.02	Negative
8020	1	B802001-1	2	H28	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Library	Y	W2	Concrete	White	None	0	0.02	Negative
8020	1	B802001-1	2	H28	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Library	Y	W3	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H28	Circulation (Hallway)	Second Floor Hallway from Stairwell C to Library	Y	W4	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	228	Senior High	Classroom 228	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	228	Senior High	Classroom 228	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	228	Senior High	Classroom 228	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	228	Senior High	Classroom 228	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	230	Senior High	Classroom 230	Y	W1	Concrete	Peach & White	None	0	N/A	N/A

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	2	230	Senior High	Classroom 230	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	230	Senior High	Classroom 230	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	230	Senior High	Classroom 230	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	232	Senior High	Classroom 232	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	232	Senior High	Classroom 232	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	232	Senior High	Classroom 232	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	232	Senior High	Classroom 232	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	236	Senior High	Classroom 236	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	236	Senior High	Classroom 236	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	236	Senior High	Classroom 236	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	236	Senior High	Classroom 236	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Classroom 236	Y	W1	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Classroom 236	Y	W2	Concrete	White	None	0	0.01	Negative
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Classroom 236	Y	W3	Concrete	White	None	0	1	Positive
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell B to Classroom 236	Y	W4	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	234	Senior High	Classroom 234	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	234	Senior High	Classroom 234	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	234	Senior High	Classroom 234	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	234	Senior High	Classroom 234	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	238	Senior High	Classroom 238	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	238	Senior High	Classroom 238	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	238	Senior High	Classroom 238	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	238	Senior High	Classroom 238	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	240	Senior High	Classroom 240	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	240	Senior High	Classroom 240	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	240	Senior High	Classroom 240	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	240	Senior High	Classroom 240	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Classroom 240 to Middle Hallway	Y	W1	Concrete	Grey-Cream and White				
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Classroom 240 to Middle Hallway	Y	W2	Concrete	Grey-Cream and White				
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Classroom 240 to Middle Hallway	Y	W3	Concrete	Grey-Cream and White				
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Classroom 240 to Middle Hallway	Y	W4	Concrete	Grey-Cream and White				
8020	1	B802001-1	2	242	Senior High	Classroom 242	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	242	Senior High	Classroom 242	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	242	Senior High	Classroom 242	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	242	Senior High	Classroom 242	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	244	Senior High	Classroom 244	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	244	Senior High	Classroom 244	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	244	Senior High	Classroom 244	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	244	Senior High	Classroom 244	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	246B	Restrooms, Staff - Male	Men's Bathroom within Faculty area across from Classroom 201	Y	W1	Concrete	Beige/Tan	None	0	0	Negative
8020	1	B802001-1	2	246B	Restrooms, Staff - Male	Men's Bathroom within Faculty area across from Classroom 201	Y	W2	Concrete	Beige/Tan	None	0	N/A	N/A
8020	1	B802001-1	2	246B	Restrooms, Staff - Male	Men's Bathroom within Faculty area across from Classroom 201	Y	W3	Concrete	Beige/Tan	None	0	0	Negative
8020	1	B802001-1	2	246B	Restrooms, Staff - Male	Men's Bathroom within Faculty area across from Classroom 201	Y	W4	Concrete	Beige/Tan	None	0	0	Negative
8020	1	B802001-1	2	201C	(4-12)	Boy's Restroom adjacent to Classroom 200	Y	W1	Concrete	Beige & White	Cracking	1	1.11	Positive
8020	1	B802001-1	2	201C	(4-12)	Boy's Restroom adjacent to Classroom 200	Y	W2	Concrete	Beige & White	Cracking	1	1.21	Positive
8020	1	B802001-1	2	201C	(4-12)	Boy's Restroom adjacent to Classroom 200	Y	W3	Concrete	Beige & White	None	0	1.04	Positive
8020	1	B802001-1	2	201C	(4-12)	Boy's Restroom adjacent to Classroom 200	Y	W4	Concrete	Beige & White	None	0	N/A	N/A
8020	1	B802001-1	2	201	Senior High	Classroom 201	Y	W1	Concrete	w/Green	Chipping	10	0	Negative
8020	1	B802001-1	2	201	Senior High	Classroom 201	Y	W2	Concrete	w/Green	Chipping	10	0	Negative
8020	1	B802001-1	2	201	Senior High	Classroom 201	Y	W3	Concrete	w/Green	None	0	N/A	N/A
8020	1	B802001-1	2	201	Senior High	Classroom 201	Y	W4	Concrete	w/Green	None	0	N/A	N/A
8020	1	B802001-1	2	203	Senior High	Classroom 203	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203	Senior High	Classroom 203	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203	Senior High	Classroom 203	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203	Senior High	Classroom 203	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203A	Senior High	Classroom 203A	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203A	Senior High	Classroom 203A	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203A	Senior High	Classroom 203A	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	203A	Senior High	Classroom 203A	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	200	Senior High	Classroom 200	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	200	Senior High	Classroom 200	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	200	Senior High	Classroom 200	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	200	Senior High	Classroom 200	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	202	Senior High	Classroom 202	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	202	Senior High	Classroom 202	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	202	Senior High	Classroom 202	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	202	Senior High	Classroom 202	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	205	Senior High	Classroom 205	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	205	Senior High	Classroom 205	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	205	Senior High	Classroom 205	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	205	Senior High	Classroom 205	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	204	Senior High	Classroom 204	Y	W1	Concrete	Peach & White	None	0	0	Negative

ULCS#	Element	ID	Floor	Space #	Space Type	On-Site Room Name	Teacher	Component	Substrate Material	Color	Description of Damage	(sf)	(mg/cm2)	(positive/ negative)
8020	1	B802001-1	2	204	Senior High	Classroom 204	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	204	Senior High	Classroom 204	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	204	Senior High	Classroom 204	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Middle Hallway from Classroom 201 to Classroom 205	Y	W1	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Middle Hallway from Classroom 201 to Classroom 205	Y	W2	Concrete	White	None	0	0.03	Negative
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Middle Hallway from Classroom 201 to Classroom 205	Y	W3	Concrete	White	None	0	0.02	Negative
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Middle Hallway from Classroom 201 to Classroom 205	Y	W4	Concrete	White	None	0	0.06	Negative
8020	1	B802001-1	2	206	Senior High	Classroom 206	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	206	Senior High	Classroom 206	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	206	Senior High	Classroom 206	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	206	Senior High	Classroom 206	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Hallway from Classroom 210 to Middle Hallway	Y	W1	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Hallway from Classroom 210 to Middle Hallway	Y	W2	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Hallway from Classroom 210 to Middle Hallway	Y	W3	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H25	Circulation (Hallway)	Second Floor Hallway from Classroom 210 to Middle Hallway	Y	W4	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	208	Senior High	Classroom 208	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	208	Senior High	Classroom 208	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	208	Senior High	Classroom 208	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	208	Senior High	Classroom 208	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	210	Senior High	Classroom 210	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	210	Senior High	Classroom 210	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	210	Senior High	Classroom 210	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	210	Senior High	Classroom 210	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	212	Senior High	Classroom 212	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	212	Senior High	Classroom 212	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	212	Senior High	Classroom 212	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	212	Senior High	Classroom 212	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	211	Senior High	Classroom 211	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	211	Senior High	Classroom 211	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	211	Senior High	Classroom 211	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	211	Senior High	Classroom 211	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	213	Senior High	Classroom 213	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	213	Senior High	Classroom 213	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	213	Senior High	Classroom 213	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	213	Senior High	Classroom 213	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	215B	Administrative Office	Office 215B	Y	W1	Sheetrock	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	215B	Administrative Office	Office 215B	Y	W2	Sheetrock	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	215B	Administrative Office	Office 215B	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	215B	Administrative Office	Office 215B	Y	W4	Sheetrock	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H215	Circulation (Hallway)	Office 215 Hallway	Y	W1	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H215	Circulation (Hallway)	Office 215 Hallway	Y	W2	Sheetrock	White	None	0	0	Negative
8020	1	B802001-1	2	H215	Circulation (Hallway)	Office 215 Hallway	Y	W3	Sheetrock	White	None	0	0	Negative
8020	1	B802001-1	2	H215	Circulation (Hallway)	Office 215 Hallway	Y	W4	Sheetrock	White	None	0	0	Negative
8020	1	B802001-1	2	217	Senior High	Classroom 217	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	217	Senior High	Classroom 217	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	217	Senior High	Classroom 217	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	217	Senior High	Classroom 217	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Office 215	Y	W1	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Office 215	Y	W2	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Office 215	Y	W3	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27C	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Office 215	Y	W4	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell Q	Y	W1	Concrete	White	None	0	0.05	Negative
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell Q	Y	W2	Concrete	White	None	0	0.05	Negative
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell Q	Y	W3	Concrete	White	None	0	0.03	Negative
8020	1	B802001-1	2	H27	Circulation (Hallway)	Second Floor Hallway from Stairwell J to Stairwell Q	Y	W4	Concrete	White	None	0	0.04	Negative
8020	1	B802001-1	2	209	Senior High	Classroom 209	Y	W1	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	209	Senior High	Classroom 209	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	209	Senior High	Classroom 209	Y	W3	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	209	Senior High	Classroom 209	Y	W4	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	H211	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroon 209	Y	W1	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H211	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroon 209	Y	W2	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H211	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroon 209	Y	W3	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H211	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroon 209	Y	W4	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H213	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroom 201	Y	W1	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H213	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroom 201	Y	W2	Concrete	White	None	0	0	Negative
8020	1	B802001-1	2	H213	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroom 201	Y	W3	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	H213	Circulation (Hallway)	Second Floor Hallway from Storage Room 207A to Classroom 201	Y	W4	Concrete	White	None	0	N/A	N/A
8020	1	B802001-1	2	207	Senior High	Classroom 207	Y	W1	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	207	Senior High	Classroom 207	Y	W2	Concrete	Peach & White	None	0	N/A	N/A
8020	1	B802001-1	2	207	Senior High	Classroom 207	Y	W3	Concrete	Peach & White	None	0	0	Negative
8020	1	B802001-1	2	207	Senior High	Classroom 207	Y	W4	Concrete	Peach & White	None	0	N/A	N/A

City of Philadelphia - Department of Public Health
Air Management Services, 2nd Fl. Asbestos Control Unit
321 University Ave. Philadelphia, PA 19104

Asbestos Inspection Report

Office Use Only	Date Received L&I:	Date Received AMS:
	Date Inspected	Inspector No.

1. Name of Building / Property: North East High School
Address: 1601 Cottman Avenue

2. Name of Building / Property Owner: School District of Philadelphia
Address: 440 N. Broad Street
Phone No.: (215) 400-4000

3. Name of Philadelphia Certified Investigator: Suzanne Shourds
Certification No.: AIC-0624
Contact Information / Email / Phone No.: sshourds@repsg.com/215-729-3220
L&I Commercial Activity No. (Former Business Privilege License No.): 356481
Business Tax ID No.: 20-3007762

4. Name of Philadelphia Licensed Laboratory: EMSL
License No.: ALL-137
Phone No.: 800-220-3675

5. Scope of Work: (Insert or attach a complete description of the portion of the subject property inspected and the anticipated work that will result in the disturbance of the identified Asbestos Containing Materials (ACMs) (e.g. demolition, asbestos abatement, and / or renovation activities.)

Renovations related the installation/upgrade of air conditioning units at CMU wall systems at specified areas throughout the school. All accessible areas within the proposed scope of work were inspected. Should any additional suspect ACMs be found during the course of renovation activities, or should the scope of work change, work should immediately stop in that area and REPSG should be contacted for further investigation and/or abatement.

6. ☐ Property has been declared to be in imminent danger (ID) of failure or collapse by the City of Philadelphia Department of Licenses & Inspections. **Attached is a copy of the L&I Notice of Violation declaring the property I.D. **Note: INVESTIGATOR MUST BE ON SITE DURING DEMOLITION!**

7. (ACMs) identified? ☑ Yes (List Below) ☐ No (explain)

8. Suspected ACM's sampled? ☑ Yes (attached are copies of the laboratory chain of custody and bulk sample results.) ☐ No (Why?)

9. List all identified ACM's located in the planned renovation/demolition areas. Damaged ACM must be listed and then repaired or removed prior to renovation. You (Investigator) must label all ACM that may be left in the work area. (Attached are add'tl sheets)

Location	Description	Type (Code 1)	Amount Square	Amount Linear	Condition (Code 2)	Action (Code 3)
SEE ATTACHED						

Code 1
FRI - Friable
NF1 - Non-Friable, Cat. 1
NF2 - Non-Friable, Cat. 2

Code 2
DD - Deteriorated or Delaminated
ND - Non-Damaged

Code 3
REM - Removal necessary prior to Demo/Reno
NRN - No removal necessary, label ACM
REP - Repair & Label ACM, removal not necessary

10. I hereby certify that the foregoing statements are true and the information contained in this report is true. This certification is made subject to the penalties set forth in 18 PA. C.S. S4904 relating to unsworn falsification to authorities. Furthermore I certify that the inspection, sampling, and labeling requirements of section X of the Asbestos Control Regulation (ACR) have been met. The building owner has been notified of the ACR requirements and given a copy of this report. If the inspection has revealed ACM which will be disturbed by the proposed work or if it has revealed ACM in bad condition, the building owner has been notified to remove or repair the ACM in accordance with the ACR prior to renovation or demolition activity.

11. Signature of Certified Asbestos Investigator:	Date:	Signature of Building Owner:	Date:
	5/14/2021		

Northeast High School

1601 Cottman Avenue, Philadelphia, PA 19111

ULCS# 8020

Year Built: 1957

Prepared By: Suzanne Shourds

Certification Number: AIC-0624

School District of Philadelphia

Asbestos Inspection Report (AIR)

Project Name: North East High School (UCLS No. 8020)

Date: 5/14/2021

Elemen	Floor	On-Site Room Name	Material Description	Type (Code 1)	Confirmed/Assumed/NAD/Non Suspect ACM	Amount of Material	SF LF EA	Condition (Code 2)	Action (Code 3)	Comments
1	1	Classroom 150	CMU Block Wall Paint	NF2	Confirmed	1840	SF	ND	REM	
1	1	Classroom 152A	CMU Block Wall Paint	NF2	Assumed	1840	SF	ND	REM	
1	1	Classroom 154	CMU Block Wall Paint	NF2	Confirmed	1840	SF	ND	REM	
1	1	Classroom 156	CMU Block Wall Paint	NF2	Assumed	1840	SF	ND	REM	
1	1	Classroom 158	CMU Block Wall Paint	NF2	Confirmed	1840	SF	DD	REM	Sporadic, Less than 5 LF of Damage
1	1	Classroom 160	CMU Block Wall Paint	NF2	Confirmed	1840	SF	DD	REM	Sporadic, Less than 10LF of Damage
1	2	Classroom 201	CMU Block Wall Paint	NF2	Confirmed	950	SF	ND	REM	