Hazardous Building Materials Survey Report

Osborn Hill
Elementary School

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0235320.00
BL Companies
January 2024

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EXECUTIVE SUMMARY

This report presents the results of a survey for hazardous materials conducted at the Osborn Hill Elementary School located at 760 Stillson Road in Fairfield, Connecticut. The survey was conducted to evaluate existing building materials which may be subject to disturbance during the planned renovation project. Woodard & Curran performed the initial survey on December 16, 2023 with additional survey activities conducted between December 26, 2023 and January 23, 2024 to evaluate the type, location and quantity of asbestos-containing building materials (ACBM), lead-based paint (LBP), or suspect polychlorinated biphenyl (PCB) containing building materials that may be present within or on the building components scheduled for renovations.

These results of the survey are summarized below:

- Representative suspect asbestos-containing materials likely to be disturbed by proposed building renovations were visually inspected and sampled throughout the building and on the roof. Suspect materials identified included ceiling tiles, vinyl floor tile and associated glue, door frame caulking, wallboard and joint compound, ventilation ductwork sealants, window and door caulking, rolled roofing and associated materials, roof flashings, asphalt shingles, pitch box cement, caulking on roofing components (exhaust fans, skylights, etc.), counterflashing caulking and seam sealer. Analytical results reported no asbestos containing building materials within the scope of the survey.
- The results of the lead paint survey identified lead above instrument detection limits on the majority of surfaces included in the survey. However, the majority of surfaces were reported with lead levels < 1.0 mg/cm^2. Lead was reported at concentrations > 1.0 mg/cm^2 in coatings observed on structural steel throughout the building.
- Suspect PCB-containing building materials including caulking, sealants, and painted masonry were observed at various interior and exterior locations throughout the building. These materials included paint on CMU block walls throughout the building, paint on structural steel components throughout the building, caulking at the main entry vestibule windows and doors, caulking at interior hallway windows, and caulking at interior partition doors including the doors to the cafeteria and the custodian office. The design team has elected to manage suspect materials disturbed during the renovation as an assumed PCB Bulk Product Waste in accordance with 40 CFR 761.62 and therefore, representative samples were not submitted for laboratory analysis. Based on the reported dates of construction for the roof (2020), ventilation system (1995/1996), and building perimeter windows (2014), these materials were not considered to be suspect for PCBs.

The survey activities were limited to those areas identified as being included in the planned renovations as presented on the 95% Construction Documents by BL Companies dated September 29, 2023 (the 95% Construction Documents). Certain inaccessible areas were not evaluated during the survey activities. These areas include but are not necessarily limited to potential materials beneath portions of the foundation slab, the interior of CMU block walls (potential vermiculite insulation), or the potential presence of mineral core/asbestos cores in doors throughout the building. In addition, survey activities were not conducted in the gymnasium or in the media center.

1. INTRODUCTION

Woodard & Curran conducted the initial survey to evaluate the type, location and approximate quantity of ACBM, LBP, and suspect PCB-containing building materials that may be disturbed during the upcoming renovation at the Osborn Hill Elementary School located at 760 Stillson Road in Fairfield, Connecticut.

Based on the 95% Construction Documents, it is our understanding that the renovations are anticipated to include the removal and replacement of certain HVAC equipment on the roof, creation of new roof penetrations and structural supports for the installation of new HVAC and other equipment, removal and replacement of portions of ventilation ductwork, demolition of limited interior walls (between classrooms) and partition doors, replacement/renovations to the main entry vestibule area, and replacement of ceilings throughout the majority of the building.

Osborn Hill Elementary School was originally constructed in 1958 with significant additions to the building in 1969, 1981, 1997, 2000, and 2009. Based on information provided by BL Companies, ventilation ductwork throughout the school building was replaced in the 1990s. In addition, the former gymnasium was replaced after 2013 due to the presence of polychlorinated biphenyls (PCB)-containing spray-on fireproofing. Based on information provided by the design team and Fairfield Public Schools, ventilation ductwork was installed in 1995/1996, windows were replaced in 2014, and the roof was replaced in its entirety (down to underlying metal decking) in 2020.

A Site Locus Map is provided as Figure 1-1 below.

Figure 1-1: Site Locus Map

Woodard & Curran conducted the hazardous building materials survey in support of the proposed project to renovate the elementary school. Various federal and state regulations require the Owner or Operator of facilities which are scheduled to be renovated to identify existing hazardous materials prior to renovation. These regulations are intended to ensure that existing hazardous materials are properly removed, handled, packaged and disposed of prior to, or as part of the renovation process.

Based on the original construction date (1958), products containing certain hazardous materials such as ACBM, LBP, PCBs, or other hazardous materials may have been used as part of the standard construction practices, or during repair or renovation activities throughout the lifespan of the building. No information has been provided regarding previous renovation or abatement projects that would have included hazardous building materials.

Woodard & Curran conducted the hazardous building material survey described in this report in support of the proposed renovation project. For the survey, Woodard & Curran subcontracted the field activities related to suspect ACBM and LBP to EnviroMed Services of Meriden, Connecticut (EnviroMed).

This report includes a description of the hazardous materials survey findings, sample results, limitations, and regulatory considerations of these findings.

2. BUILDING SURVEY

2.1 Survey Scope

The objective of the hazardous building materials survey was to visually inspect and document the different types of suspect hazardous building materials subject to potential disturbance during renovation of the Osborn Hill Elementary School. Woodard & Curran performed the initial survey on December 16, 2023 with additional survey activities conducted between December 26, 2023 and January 23, 2024.

Based on the planned scope of the renovations, the majority of the survey activities were focused on accessible materials in the common areas of the school, in overhead areas, and on the roof. Intrusive techniques were used to identify existing hazardous materials that may be located behind finishes, beneath newer roofing materials, beneath flooring or tile, or otherwise hidden from view in those areas identified as to be impacted during the planned renovations and as approved by the project team prior to mobilization. In these areas the survey activities included documentation of suspect hazardous building materials observed and the collection of representative samples of the materials.

2.2 Building Features

A summary of the building construction features relevant to the hazardous materials survey is presented below.

The original building and the additions appear to be constructed on concrete floor slabs at grade. The perimeter walls are CMU on the interior side of the walls with brick veneer finishes on the exterior. Building perimeter windows were of aluminum frame construction set into the surrounding brick façade.

Structural components appear to include bar joists located above ceilings and below the metal decking (no fireproofing observed on decking or structural steel components). Interior finishes include suspended acoustical ceiling tiles, gypsum board wall finishes, CMU wall finishes, ceramic tile wall and floor finishes in bathrooms, and vinyl floor finishes. Specialty spaces within the school include the gym with associated equipment storage area, the Library Media Center, the multi-purpose room including stage, the kitchen, the boiler room, and the main office area. The remainder of the interior spaces include classrooms as well as bathrooms and various storage spaces / closets.

3. ASBESTOS-CONTAINING MATERIALS

The asbestos inspection was performed using guidelines established by the EPA Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA 5605-85/024), EPA AHERA: 40 CFR 763, and OSHA: 1926.1101. EnviroMed conducted visual inspections of accessible areas to identify homogeneous areas of suspect ACBM in building areas scheduled for renovation activities. Suspect materials were assessed as potential ACBM, where they were observed. Locations and types of suspect ACBM were noted. Limited invasive investigations were conducted behind or beneath existing finishes in areas where such activities would be anticipated as part of the renovation project including roof test cuts to the asphalt decking. Summary reports of the asbestos survey methods by areas of the building and results along with the locations of the samples collected is presented in Appendix A.

Materials are grouped into homogeneous areas for the purpose of sampling to evaluate asbestos content. Homogeneous areas are those that contain suspect ACBM that is uniform in application, texture, and color, and which visually appear identical in every other respect. Materials installed at different times are treated as different homogeneous sampling areas (if this information is known). Bulk samples of observed suspect ACBM were collected from randomly chosen representative locations in a manner to minimize damage to building finishes.

Mr. John Bosticco (license #000557) and/or Mr. James Sserunjogi (license #001026) of EnviroMed Services conducted the survey and collected samples during the survey on December 16 and 27, 2023 with a follow up visit on January 23, 2024.

3.1 Analytical Methods

Samples collected as part of the inspection were transported to EnviroMed's laboratory in Meriden, Connecticut for analysis (CT DPH approved environmental laboratory, PH-0571). Samples were analyzed via Polarized Light Microscopy (PLM) methods in accordance with the United States Environmental Protection Agency (EPA) Methods 600/R-93/116 and 600/M4-82-020. The analytical results are presented with the survey reports in Appendix A.

3.2 Inspection Summary

Representative suspect ACBM was inspected and sampled in accessible portions of the school and in selected inaccessible areas through targeted intrusive/destructive methods. Materials observed and considered suspect for asbestos included ceiling tiles, vinyl floor tile and associated glue, door frame caulking, wallboard and joint compound, ventilation ductwork sealants, window and door caulking, rolled roofing and associated materials, roof flashings, asphalt shingles, pitch box cement, caulking on roofing components (exhaust fans, skylights, etc.), counterflashing caulking and seam sealer.

The primary focus of the inspections was on roofing materials, ceiling types, wall types, and materials above ceilings that would be disturbed by planned HVAC renovations. The second focus of the inspection was on materials in the main entrance area where renovation is also planned.

A total of 148 samples were collected and submitted for asbestos analysis. EPA, OSHA and State of Connecticut regulations define an ACBM as any building material containing greater than 1% asbestos by

an appropriate analytical method. A summary of each of the samples collected is provided Appendix A by sample ID number. Asbestos was not detected in materials included in the survey.

The survey focused on those areas designated to be disturbed based on the 95% Construction Documents throughout the interior portions of the school and the roof. Suspect materials from each of these areas were observed and representative samples collected.

Analytical results from the laboratory testing indicated no ACBMs were detected in the representative samples of observed suspect materials within the survey area.

4. LEAD-BASED PAINT

EnviroMed, as a sub-consultant to Woodard & Curran, conducted a limited inspection for lead-based paints and coatings at the site. The inspection included those paints that appeared to be most prevalent within construction areas scheduled to be disturbed during upcoming renovations as indicated on the 95% Construction Documents with a particular focus on structural steel and interior walls in the school. The lead paint inspection was conducted using an x-ray fluorescence (XRF) analyzer (Viken direct read pb200i)). The XRF analyzer uses a radioactive source to excite the electrons of lead atoms (if present) in the sampled paints. When the radiation is halted, the lead atom electrons return to their normal state of activity by releasing x-rays of a characteristic frequency. This x-ray activity is detected and measured by the XRF analyzer. The results are converted to milligrams lead per square centimeter of sampled surface area (mg/cm^2).

The XRF testing identified lead above instrument detection limits on the majority of surfaces included in the survey. However, the majority of surfaces were reported with lead levels below the State of Connecticut Lead Regulations level of 1.0 mg/cm^2. Lead was reported at levels > 1.0 mg/cm^2 in coatings observed on structural steel throughout the survey areas.

A summary table of the results of the lead survey is included in Appendix B.

5. POLYCHLORINATED BIPHENYLS

Woodard & Curran's survey included the documentation of suspect PCB-containing building materials from accessible caulking, sealants, and paints observed in portions of the school to be included in the renovations.

A summary of suspect PCB-containing building materials observed during the survey is provided by area/material type below.

- Main Entry Vestibule Area: Main entry doors consisted of metal framed doors set into brick walls. Additional construction features within this area include doors into the cafeteria, and curtain wall type window and door partitions separating the office space from the hallway. Suspect PCB-containing materials observed included:

Interior Side of Main Entry

    - Main Door Frame Caulking – a bead of gray, soft, flexible caulking was observed on the interior and exterior frame to brick joints on the main doors.
    - Main Door Glazing Sealants – materials between the glass and frames above and between the doors were pre-formed gasket materials and not considered to be suspect for PCBs. Glazing sealants were observed on the windows within the doors; however, the materials were inaccessible due to plexiglass having been installed over the windows.
    - Cafeteria Door Frame Caulking – a white, soft, flexible caulking was observed between the metal frames and brick walls on the hallway side of the doors (no caulking observed on the cafeteria side).
    - Office Windows and Doors – no caulking or glazing sealants were observed.
- CMU Block Walls – Walls throughout the school were primarily painted CMU block (brick walls were located in the main entry area). CMU walls were painted white or off-white. Multiple layers of paint (some of differing colors) were observed in some areas. At the majority of locations observed, paint had been present on the walls up to the drop ceiling with bare CMU above (the upper 8 to 10 inches of wall).

- Structural Steel and Metal Decking – Structural steel cross beams were coated with red/orange paint or primer or black paint. Metal decking was observed to be unpainted corrugated panels.
- Custodian Office Area – The following suspect materials were observed in this space:
    - Door Frame Caulking – A white, soft caulking was observed between the frame and CMU block wall.
    - CMU Wall Paint – consistent with other areas of the building, CMU walls were coated with an off-white paint.

- Interior Hallway Windows – Partition windows between classrooms and hallways consisted of aluminum framed windows set into the CMU block walls. White, flexible caulking was observed in the metal to metal joints of the windows and between the frames and CMU walls. Based on the 95% demolition drawings, these materials are not anticipated to be disturbed during the renovation.

Based on the limited scope of work associated with the above materials, the design team has decided to manage those portions of the above materials disturbed by the planned renovations as an assumed PCB Bulk Product Waste in accordance with 40 CFR 761.62 (i.e., assumed to contain PCBs ≥ 50 ppm for removal and disposal purposes). During the survey, representative samples of the above materials were collected; however, they have not been submitted for laboratory analysis and are currently being held in our dedicated sample freezer. These samples may be held for a period of up to one year to allow for future analysis if the project team reevaluates the decision to assume that PCBs are present in the materials.

In addition to the above, the following materials were observed but not considered to be suspect PCB-containing building materials based on the reported renovation history of the school.

- Roofing Materials – Caulking sealants were observed at penetration points and flashing on the roof. Based on information provided by BL Companies and the Fairfield Public Schools, the existing roofing was installed within the past ten years (after 2013) and are not considered to be suspect for PCBs.

- Ventilation Ductwork Sealants – A tan, hard, sealant was observed on the metal to metal joints in the northern portion of the school (sealants were not observed on ductwork in the southern section of the building). Based on information provided by BL Companies, ductwork was installed in the 1990s and are not considered suspect for PCBs.

- Custodian Office Window – A gray, soft, flexible caulking was observed on the interior and exterior frame joints of the window designated for removal in the custodian office. Based on information provided by the design team, windows at the school were replaced in 2014 and therefore, the caulking would not be considered suspect for PCBs. However, while underlying caulking was not observed at the sample locations; there is the potential for the caulking associated with the original windows to have contained PCBs.

A summary table of the suspect PCB-containing building materials observed and site plans depicting their general locations are provided in Appendix C.

6. REGULATORY CONSIDERATIONS

6.1 Asbestos

ACBMs were not identified during this survey. Asbestos is regulated by state and federal authorities having jurisdiction including but not limited to OSHA, EPA, and CT DPH. If additional suspect materials are identified and determined to be ACBMs, the following potential next steps are proposed for consideration:

- A CT DPH licensed Asbestos Abatement Project Designer must prepare technical specifications for removal of any ACBM that may be disturbed by any renovation activities at the site as required by EPA 40 CFR Part 763 (AHERA).
- A licensed asbestos contractor shall remove any identified ACBM from the facility prior to the start of renovation activities that may disturb the materials in accordance with federal, state and local regulations.
- The owner/operator should review this report as plans are developed to confirm which identified hazardous materials are likely to be disturbed as part of the project. The design team should evaluate if any additional inspection is necessary, as additional ACBM may be present in previously inaccessible areas such as within mechanical and electrical components, buried areas, chases, shafts, foundation walls, floor drains, etc. If additional suspect materials are encountered during facility renovation or demolition activities, then precautions should be taken to prevent the disturbance of the suspect material(s) until appropriate bulk sampling and laboratory analysis is performed to evaluate the material's asbestos content.
- The Fairfield Public School system should update the applicable asbestos management plans required by the EPA AHERA regulations (40 CFR Part 763) to reflect the additional ACBMs that have been identified as a result of this inspection.

6.2 Lead-Based Paint

Renovation activities that disturb lead-based paints must be performed in accordance with OSHA regulation 29 CFR 1926.62 (Lead in Construction), which contains requirements for protecting workers from lead exposure. For the purposes of OSHA compliance, any measurable lead in paint could pose a health hazard to workers involved in removal of lead painted components where dust is generated, regardless of the measured lead concentrations in the paints. The standard requires that an initial exposure assessment be conducted whenever employee exposure to lead is possible. The standard also requires specified steps to be taken by the employer to ensure that employees are not exposed to elevated concentrations of lead until the exposure assessments have been completed. In some cases, OSHA would require personal air monitoring to evaluate the level of respiratory protection and medical monitoring for workers involved in such work.

The EPA also regulates the disturbance of paints that contain lead in buildings where children under the age of six years are occupants. Contractors who conduct renovation, repair or painting (RRP) activities in such buildings must have training regarding the EPA's requirements for inspections, work practices, engineering controls, occupant notifications, etc. related to activities that disturb paints containing lead.

The Connecticut Department of Environmental Protection has determined that, when results of a comprehensive evaluation for lead in paint is conducted using an XRF analyzer, and all results indicate lead concentrations below 1.0 mg/cm^2, then the waste from such painted building components is not a hazardous waste due to leachable lead and no further waste characterization for leachable lead is required. As presented in Appendix C, results from testing of the majority of surfaces, including paints on interior portion walls reported lead at concentrations < 1 mg/cm^2. The reported concentrations of lead on structural steel beams will require appropriate waste characterization sampling for disposal in accordance with the Resource Conservation and Recovery Act (RCRA) if these materials are disturbed during the renovation. This characterization should include testing for the toxicity characteristic of lead in the waste stream through leachability testing if materials coated with lead-based paint are included in the waste stream, or if there is other reason to suspect that lead may be included in the waste.

6.3 PCBs

PCB-containing building materials are regulated under the federal PCB regulations at 40 CFR 761 based on the concentrations of PCBs in the materials. A summary of the three categories of materials based on total PCB concentration is as follows:

- PCBs ≥ 50 ppm – Certain suspect materials have been assumed by the design team to contain PCBs ≥ 50 ppm for removal and disposal purposes. These include: interior and exterior window caulking in the 1950's portion of the building, interior door caulking in the 1950's portion of the building, vapor barrier in the wall cavities of the 1950's and 1978 portions of the building, and interior window caulking in the staff room of the 1978 portion of the building.

  Materials assumed to contain PCBs ≥ 50 ppm are to be managed as PCB bulk product waste and disposal as per 40 CFR 761.62 and as a State of Connecticut Regulated Waste (CR01). In addition, if PCBs were released to other building materials from ≥ 50 ppm materials, then these materials could be regulated under 40 CFR 761.62 or 40 CFR 761.61, depending on removal methods and timing.

- PCBs > 1 and < 50 ppm – Materials in this category include interior partition window and door calking within the 1950's portion of the building. Based on the date of installation, the design team has determined that these materials meet the definition of Excluded PCB Products in accordance with 40 CFR 761.3 The State of Connecticut regulates these materials for removal and off-site disposal based on the presence of PCBs > 1 ppm and requires that surrounding substrates be evaluated following removal to verify that residual PCBs do not remain. Materials containing PCBs at concentrations > 1 and < 50 ppm have not been identified as Osborn Hill Elementary School.

- Non-PCB Containing Materials – Suspect materials determined to be non-detect for PCBs or with PCBs ≤ 1 ppm are not subject to PCB waste management and disposal requirements under 40 CFR 761 or the CTDEEP. Non-PCB containing building materials have not been identified at Osborn Hill Elementary School through analytical testing. Such materials are limited to those installed after the federal prohibition on the use of PCBs in building materials.

As indicated in Section 5, the design team has elected to manage those suspect PCB-containing building materials designated for removal under the assumption that the materials contain PCBs at concentrations ≥ 50 ppm without analytical testing. Based on this assumption, all suspect PCB-containing building materials and building materials directly adjacent to the suspect materials are to be managed for removal

and off-site disposal as an assumed PCB Bulk Product Waste. A summary of the remedial approach for each item is presented in Appendix C.

6.4 Other Hazardous Materials

All fluorescent light tubes, other universal waste and materials requiring special disposal should be handled, packaged and disposed of in accordance with Regulations of Connecticut State Agencies (RCSA) Section 22a – 449 (c) - 113 as well as other applicable federal, state and local requirements. Refrigerants should be reclaimed by contractors appropriately trained and certified to conduct such activities. Petroleum products, cleaning supplies, and other materials that may be disposed of during the renovations should be disposed of in accordance with applicable regulatory requirements.

7. LIMITATIONS AND REMAINING ACTIVITIES

The services provided were conducted in a manner consistent with standard industry practices for hazardous materials surveys, recognizing that even the most comprehensive inspection may not detect all suspect materials in the building. Observations documented in this report were made under the conditions existing at the time of the surveys. Limiting factors include accessibility, visibility, scope of work, and safety. Sampling was not performed on building components that would impact structural, mechanical, life safety, or electrical systems. Note subsurface investigations beneath the foundation slab of the building and on the exterior side of the foundation walls were not included in the scope of this survey based on the information provided which indicated that such materials would not be disturbed during the renovations..

The sampled materials are considered representative of accessible suspect hazardous building materials observed at the facility within construction areas scheduled to be disturbed during upcoming renovations as indicated on the 95% Construction Documents. Reasonable measures were undertaken to detect the presence of suspect hazardous materials within the survey areas. The evaluations, assessments, and findings presented herein are based solely on the observations made during the surveys. While the samples collected are considered representative of the suspect hazardous building materials observed during the survey activities, undetected variations in chemical concentrations may occur in the media at un-sampled locations, and other suspect hazardous materials may be present at locations that may not become accessible until such time that additional building material removal activities are performed. In the event that any conditions differing from those described herein are identified at a later time, Woodard & Curran requests the opportunity to review such differences and modify, as appropriate, the assessments and conclusions given in this report.

As described above, the survey activities were limited to accessible areas of the building and to limited intrusive sampling activities within inaccessible areas planned to be included in the renovations (e.g., roof test cuts). No intrusive survey or sampling activities were performed at locations not scheduled to be disturbed during upcoming renovations as indicated on the 95% Construction Documents. Estimated quantities of materials provided in this report are based on areas scheduled to be disturbed as shown on 95% Construction Documents, and these quantities are subject to change after plans are finalized. Additional quantities of identified hazardous materials may be present at locations that were excluded from the survey and/or at locations concealed by existing finish materials.

If the revisions are made to the planned scope of the renovations, additional/follow up survey activities may be required to evaluate the presence/absence of suspect hazardous building materials in the additional areas. Due to accessibility restraints, the tectum ceiling panels in the gymnasium were not included in the survey nor were holes drilled into interior partition doors throughout school. Additional evaluations of these materials may be required if they are to be disturbed during the renovations.

APPENDIX A: ASBESTOS INSPECTION REPORTS – ENVIROMED SERVICES

EnviroMed

Cleaner environment. Safer workplaces.

Asbestos Roof Inspection Report

For

Osborn Hill Elementary School
760 Stillson Road
Fairfield, CT

Prepared For

Woodard & Curran
40 Shattuck Road, Suite 110
Andover, MA 01810

DD - DRAFT SUBMISSION

Date of Inspection:

December 16, 2023

EnviroMed Project

#IH-23-1880

EnviroMed Services, Inc.
470 Murdock Ave., Meriden, CT 06450
Telephone (203) 238-4846• Facsimile (203) 238-4243

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I. PROJECT NARRATIVE

Overview

On December 16, 2023, EnviroMed Services Connecticut-licensed asbestos inspectors, John Bosticco, (license #557) and James Sserunjogi, (license #1026), performed an asbestos roof inspection on selected roof sections at Osborn Hill School, 760 Stillson Road, Fairfield, Connecticut. See attached roof sample location plan for which roof sections were excluded from the inspection (marked with NIC). The purpose of this inspection was to screen the roof sections for asbestos-containing roofing prior to rooftop HVAC work and roof replacement.

Samples were collected according to 40 CFR Part 763.86 and 29 CFR Part 1926.1101 and analyzed using Polarized Light Microscopy (PLM).

A total of fifty-two (52) bulk samples were collected and analyzed.

Summary of Results

EnviroMed Services Inc. accredited asbestos laboratory analyzed the bulk samples. The complete laboratory report can be found in Section III. The following asbestos-containing (≥1% asbestos) roofing materials were found on the roof sections surveyed:

None

I. SAMPLE LOG AND RESULTS TABLE

Sample #	Sample Location	Material Sampled	Percent Asbestos
1	Roof B	Roll Roofing Top Layer	NAD
2	Roof B	Roll Roofing Tan Paper between Insulation	NAD
3	Roof B	Roll Roofing Bottom Black Felt on Deck	NAD
4	Roof B	Edge Flashing	NAD
5	Roof B	Edge Flashing	NAD
6	Roof B	HVAC Curb Flashing	NAD
7	Main Entry Roof	Asphalt Shingles	NAD
8	Main Entry Roof	Tar Paper under Shingles	NAD
9	Roof A	HVAC Curb Flashing	NAD
10	Main Entry Roof	Asphalt Shingles	NAD
11	Main Entry Roof	Tar Paper under Shingles	NAD
12	Roof A	Roll Roofing Top Layer	NAD
13	Roof A	Roll Roofing Tan Paper between Insulation	NAD
14	Roof A	Roll Roofing Bottom Black Felt on Deck	NAD
15	Roof A	Edge Flashing	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
16	Roof A	Edge Flashing	NAD
17	Library Wing Roof	Roll Roofing Top Layer	NAD
18	Library Wing Roof	Roll Roofing White Felt	NAD
19	Library Wing Roof	Roll Roofing Wallboard Deck	NAD
20	Library Wing Roof	Roll Roofing Tan Paper between Insulation	NAD
21	Library Wing Roof	Roll Roofing Bottom Black Felt on Deck	NAD
22	Library Wing Roof	Roll Roofing Top Layer	NAD
23	Library Wing Roof	Roll Roofing White Felt	NAD
24	Library Wing Roof	Roll Roofing Wallboard Deck	NAD
25	Library Wing Roof	Roll Roofing Tan Paper between Insulation	NAD
26	Library Wing Roof	Roll Roofing Bottom Black Felt on Deck	NAD
27	Library Wing Roof	HVAC Curb Flashing	NAD
28	Roof A	HVAC Curb Flashing	NAD
29	Library Wing Roof	Edge Flashing	NAD
30	Library Wing Roof	Edge Flashing	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
31	Library Wing Roof	Pitch Box Cement	NAD
32	Library Wing Roof	Pitch Box Cement	NAD
33	Library Wing Roof	Black Caulking on HVAC	NAD
34	Library Wing Roof	Seam Sealer for Roll Roofing	NAD
35	Library Wing Roof	Brown Caulking for Wall Copper Counterflashing	NAD
36	Main Entry Roof	Brown Caulking for Wall Copper Counterflashing	NAD
37	Roof A	Gray Caulking on Skylight	NAD
38	Roof A	Black Caulking on Skylight	NAD
39	Roof A	Seam Sealer for Roll Roofing	NAD
40	Roof A	Pitch Box Cement	NAD
41	Roof A	Black Caulking on Exhaust Fan	NAD
42	Roof A	Black Tar on Vent Pipe	NAD
43	Roof A	Black Caulking on HVAC Ductwork	NAD
44	Roof A	Black Caulking on HVAC Ductwork	NAD
45	Roof B	Gray Caulking on Skylight	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
46	Roof B	Black Caulking on Skylight	NAD
47	Roof B	Black Caulking on HVAC	NAD
48	Roof B	Black Tar on Vent Pipe	NAD
49	Roof B	Pitch Box Cement	NAD
50	Roof B	Black Caulking on Exhaust Fan	NAD
51	Gym Roof	Seam Sealer on Rubber Roofing	NAD
52	Gym Roof	Seam Sealer on Rubber Roofing	NAD

NAD = No Asbestos Detected

III. LABORATORY ANALYSIS REPORT

EnviroMed
Cleaner environment. Safer workplaces.
470 Murdock Avenue
Meriden, CT 06450

Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26950
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, 1, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
1	Roof B - Roll Roofing - Top Layer	22	Y	Black Rubbery	Y		0.01/0.05						10% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	90% Particulate	NAD
2	Roof B - Felt Paper (Tan) between Insulations	22	Y	Pink/White Fibrous	Y								5% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	95% Particulate	NAD
3	Roof B - Bottom Felt (Black)	22	Y	Black Fibrous	Y								15% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	85% Particulate	NAD
4	Roof B - Edge Felt (Black)	22	Y	Black Fibrous	Y								10% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	90% Particulate	NAD
5	Roof B - Edge Flashing	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	95% Particulate	NAD
6	Roof B - HVAC Curb Flashing	22	Y	Black Rubbery	Y								15% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	85% Particulate	NAD
7	Main Entry Roof - Asphalt Shingle	22	Y	Black Rubbery	Y								10% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	90% Particulate	NAD
8	Main Entry Roof - Felt (Black)	22	Y	Black Fibrous	Y								9% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	91% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide: 18666-Chry	John Bosticco	12/18/23	Maylin Vilangquy	12/19/2023	
QC: 10, 20, 30, 40, 50	Received by: Maylin Vilangquy	Date: 12/18/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26950

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (a, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
9	Roof A - HVAC Curb Flashing	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	95% Particulate	NAD
10	Main Entry Roof - Asphalt Shingle	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	95% Particulate	NAD
11	Main Entry Roof - Felt (Black)	22	Y	Black Fibrous	Y		0.01/0.05						2% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	98% Particulate	NAD
12	Roof A - Roll Roofing - Top Layer	22	Y	Black Fibrous	Y								3% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	97% Particulate	NAD
13	Roof A - Felt Paper (Tan) between Insulations	22	Y	White Fibrous	Y								5% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	95% Particulate	NAD
14	Roof A - Bottom Felt (Black)	22	Y	Black Fibrous	Y								7% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	93% Particulate	NAD
15	Roof A - Edge Flashing	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	95% Particulate	NAD
16	Roof A - Edge Felt (Blsck)	22	Y	Black Rubbery	Y								4% Cellulose / Fiberglass	Incomplete / Extinction / Isotropic	96% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	John Bosticco	12/18/23	Mary Jai Velangquez	1/3/2024	
QC:	Received by: Mary Jai Velangquez	Date: 12/18/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26950
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
17	Library Wing Roof - Roll Roofing - Top Layer	22	Y	Black Rubbery	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
18	Library Wing Roof - White Felt	22	Y	White Fibrous	Y		<0.01						5% Cellulose / 10% Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
19	Library Wing Roof - Drywall-like Board	22	Y	Off-white Cementitious	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
20	Library Wing Roof - Felt Paper between Insulations (Tan)	22	Y	Offwhite/Brown Fibrous	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
21	Library Wing Roof - Bottom Felt (Black)	22	Y	Black Fibrous	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
22	Library Wing Roof - Roll Roofing - Top Layer	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
23	Library Wing Roof - White Felt	22	Y	Off-white Fibrous	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
24	Library Wing Roof - Drywall-like Board	22	Y	Off White Cementitious	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	John Bosticco	12/18/23	Marylein Villanguez	1/3/2024	
QC:	Received by: Marylein Villanguez	Date: 12/18/2023	Approved by:	Date:	

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Bulk Asbestos (PLM) Analysis

Lab# 26950

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
25	Library Wing Roof - Felt Paper between Insulations (Tan)	22	Y	Tan/off white Fibrous	Y								7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
26	Library Wing Roof - Bottom Felt (Black)	22	Y	Black Rubbery	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
27	Library Wing Roof - HVAC Curb Flashing	22	Y	Black Rubbery	Y		0.01/0.05						6% Cellulose / Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
28	Roof A - HVAC Curb Flashing	22	Y	Black Rubbery	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
29	Library Wing Roof - Edge Felt (Black)	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
30	Library Wing Roof - Edge Flashing	22	Y	Black Rubbery	Y								4% Cellulose / Fiberglass	Incomplete Extinction Isotropic	96% Particulate	NAD
31	Library Wing Roof - Pitch Box Cement	22	Y	D. Gray Rubbery	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
32	Library Wing Roof - Pitch Box Cement	22	Y	D. gray Rubbery	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	John Bosticco	12/18/23	[signature]	1/3/24	
QC:	Received by: [signature]	Date: 12/18/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Bulk Asbestos (PLM) Analysis

Lab# 26950

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
33	Library Wing Roof - HVAC Black Caulking	22	Y	Black caulking	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
34	Library Wing Roof - Seam Sealor for Roll Roofing	22	Y	Black Rubbery	Y		0.01/0105						3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
35	Library Wing Roof - Brown Caulking on Cooper Flashing for Brick	22	Y	D. Gray Caulking	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
36	Main Entry Roof - Brown Caulking on Cooper Flashing for Brick	22	Y	D. gray Caulking	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
37	Roof A - SkyLight - Grey Caulking	22	Y	Off-white Caulking	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
38	Roof A - SkyLight - Black Caulking	22	Y	Black caulking	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
39	Roof A - Seam Sealor for Roll Roofing	22	Y	Black Rubbery	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
40	Roof A - Pitch Box Cement	22	Y	D. gray Rubbery	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	John Bosticco	12/18/23	Maylani Velayguy	1/3/2024	
QC:	Received by: Maylani Velayguy	Date: 12/18/2023	Approved by:	Date:	

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Bulk Asbestos (PLM) Analysis

Lab# 26950
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (0, 1, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
41	Roof A - Exhaust Fan - Black Caulking	22	Y	Black Caulking	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
42	Roof A - Vent Pipe - Black Tar	22	Y	Black Rubbery	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
43	Roof A - HVAC Ductwork - Black Caulking	22	Y	Black Caulking	Y								6% Cellulose / Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
44	Roof A - HVAC Ductwork - Black Caulking	22	Y	Black Caulking	Y		0.01 / 0.05						2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
45	Roof B - SkyLight - Grey Caulking	22	Y	White Caulking	Y								7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
46	Roof B - SkyLight - Black Caulking	22	Y	Black Caulking	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
47	Roof B - HVAC Black Caulking	22	Y	Black Caulking	Y								9% Cellulose / Fiberglass	Incomplete Extinction Isotropic	91% Particulate	NAD
48	Roof B - Vent Pipe - Black Tar	22	Y	Black Rubbery	Y								10% Cellulose / Fiberglass	Incomplete Extinction Isotropic	90% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	John Bosticco	12/18/23	MaryAnn Velazquez	1/9/2024	
QC:	Received by: MaryAnn Velazquez	Date: 12/18/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Bulk Asbestos (PLM) Analysis

Lab# 26950

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard & Curran - Osborn Hill Elementary School	IH-23-1880	J. Bosticco / J. Sserunjogi / 12-16-23	☐ 24hr ☑ 3-5 Days
Specific Location(s): Roof			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique,	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
49	Roof B - Pitch Box Cement	22	Y	D. gray Rubbery	Y								15% Cellulose / Fiberglass	Incomplete Extinction Isotropic	85% Particulate	NAD
50	Roof B - Exhaust Fan - Black Caulking	22	Y	Black caulking	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
51	Gym Roof - Seam Sealor for Roll Roofing	22	Y	Black Rubbery	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
52	Gym Roof - Seam Sealor for Roll Roofing	22	Y	Black Rubbery	Y								7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	

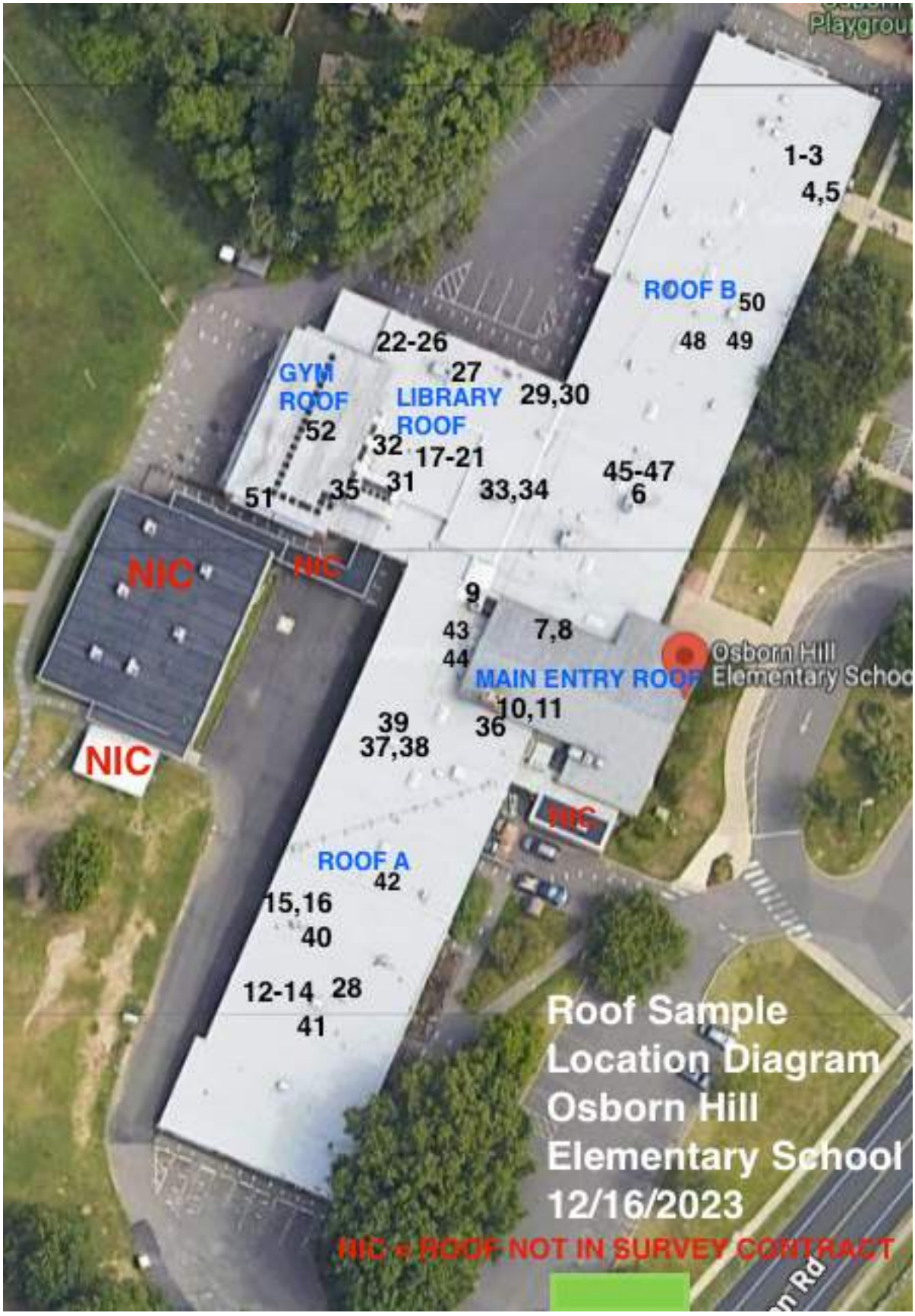
The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	John Bosticco	12/18/23	Maylin Velazquez	1/4/2024	
QC:	Received by: Maylin Velazquez 12/18/2023	Date:	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

IV. SAMPLE LOCATION PLAN


1-3
4,5
ROOF B
50
48
49
22-26
27
GYM ROOF
LIBRARY ROOF
29,30
52
32
17-21
45-47
6
51
35
31
33,34
NIC
NIC
9
43
44
7,8
MAIN ENTRY ROOF
Osborn Hill Elementary Schoo
10,11
39
37,38
36
NIC
NIC
ROOF A
42
15,16
40
12-14
28
41
Roof Sample Location Diagram
Osborn Hill Elementary School
12/16/2023
NIC = ROOF NOT IN SURVEY CONTRACT

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Asbestos Interior Inspection Report

Main Entrance Area

Walls

Ceilings

Above Ceilings

For

Osborn Hill Elementary School
760 Stillson Road
Fairfield, CT

Prepared For
Woodard & Curran
40 Shattuck Road, Suite 110
Andover, MA 01810

DD – DRAFT SUBMISSION

Date of Inspection:
December 27, 2023

EnviroMed Project
#IH-23-1880

EnviroMed Services, Inc.
470 Murdock Ave., Meriden, CT 06450
Telephone (203) 238-4846• Facsimile (203) 238-4243

TABLE OF CONTENTS

I. PROJECT NARRATIVE

Overview

On December 27, 2023, EnviroMed Services Connecticut-licensed asbestos inspector James Sserunjogi, (license #1026), performed a limited interior asbestos inspection at Osborn Hill School, 760 Stillson Road, Fairfield, Connecticut. The primary focus of the inspection was on ceiling types, wall types, and materials above ceilings that would be disturbed by planned HVAC renovations. The second focus of the inspection was on materials in the Main Entrance Area, where a renovation is planned. See attached sample location plan for which sections of the school were excluded from the inspection (marked with NIC).

Samples were collected according to 40 CFR Part 763.86 and 29 CFR Part 1926.1101 and analyzed using Polarized Light Microscopy (PLM).

A total of ninety-six (96) bulk samples were collected and analyzed.

Summary of Results

EnviroMed Services Inc. accredited asbestos laboratory analyzed the bulk samples. The complete laboratory report can be found in Section III. The following asbestos-containing (≥1% asbestos) materials were found in the school sections surveyed:

Main Entrance Area

Asbestos-Containing Materials Found:

None

Materials Found to be Non-Asbestos:

2x4 Ceiling Tiles

12” Blue Vinyl Floor Tile & Associated Brown Glue

12” Green Vinyl Floor Tile & Associated Dark Brown Glue

Exterior Entry Door Frame Caulking

Interior Entry Door Frame Caulking

Wallboard & Joint Compound

Renovation Areas

Asbestos-Containing Wall & Ceiling Materials Found:

None

Wall & Ceiling Materials Found to be Non-Asbestos:

2x2 Ceiling Tiles

2x2.5 Ceiling Tiles

2x4 Ceiling Tiles

Wallboard & Joint Compound

Suspect Materials Observed Above Ceilings:

No suspect ACM materials were observed above ceilings in the renovation areas.

II. SAMPLE LOG AND RESULTS TABLE

Sample #	Sample Location	Material Sampled	Percent Asbestos
1	Room 23	2x2 Ceiling Tile	NAD
2	Room 23	2x2 Ceiling Tile	NAD
3	Room 23	2x2.5 Ceiling Tile	NAD
4	Room 23	2x2.5 Ceiling Tile	NAD
5	Room 23	Wallboard	NAD
6	Room 23	Wallboard	NAD
7	Room 23	Wallboard Joint Compound	NAD
8	Room 23	Wallboard Joint Compound	NAD
9	Girls Room	2x2 Ceiling Tile	NAD
10	Girls Room	2x2 Ceiling Tile	NAD
11	Girls Room	Wallboard	NAD
12	Girls Room	Wallboard	NAD
13	Girls Room	Wallboard Joint Compound	NAD
14	Girls Room	Wallboard Joint Compound	NAD
15	Boys Room	2x2 Ceiling Tile	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
16	Boys Room	2x2 Ceiling Tile	NAD
17	Boys Room	Wallboard	NAD
18	Boys Room	Wallboard	NAD
19	Boys Room	Wallboard Joint Compound	NAD
20	Boys Room	Wallboard Joint Compound	NAD
21	Boiler Room Storage	2x4 Ceiling Tile	NAD
22	Boiler Room Storage	2x4 Ceiling Tile	NAD
23	Boiler Room Storage	Wallboard	NAD
24	Boiler Room Storage	Wallboard	NAD
25	Boiler Room Storage	Wallboard Joint Compound	NAD
26	Boiler Room Storage	Wallboard Joint Compound	NAD
27	Cafeteria	Wallboard	NAD
28	Cafeteria	Wallboard	NAD
29	Cafeteria	Wallboard	NAD
30	Cafeteria	Wallboard	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
31	Cafeteria	Wallboard Joint Compound	NAD
32	Cafeteria	Wallboard Joint Compound	NAD
33	Cafeteria	Wallboard Joint Compound	NAD
34	Cafeteria	Wallboard Joint Compound	NAD
35	Kitchen	2x4 Ceiling Tile	NAD
36	Kitchen	2x4 Ceiling Tile	NAD
37	Kitchen	2x4 Ceiling Tile	NAD
38	Kitchen	2x4 Ceiling Tile	NAD
39	Kitchen	2x2.5 Ceiling Tile	NAD
40	Kitchen	2x2.5 Ceiling Tile	NAD
41	Kitchen	Wallboard	NAD
42	Kitchen	Wallboard	NAD
43	Kitchen	Wallboard Joint Compound	NAD
44	Kitchen	Wallboard Joint Compound	NAD
45	Kitchen	Wallboard	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
46	Kitchen	Wallboard	NAD
47	Kitchen	Ceilingboard Joint Compound	NAD
48	Kitchen	Ceilingboard Joint Compound	NAD
49	Kitchen	2x4 Ceiling Tile	NAD
50	Kitchen	2x4 Ceiling Tile	NAD
51	Main Office	2x2 Ceiling Tile	NAD
52	Main Office	2x2 Ceiling Tile	NAD
53	Main Office	2x2.5 Ceiling Tile	NAD
54	Main Office	2x2.5 Ceiling Tile	NAD
55	Main Office	2x4 Ceiling Tile	NAD
56	Main Office	2x4 Ceiling Tile	NAD
57	Main Office	Wallboard	NAD
58	Main Office	Wallboard	NAD
59	Main Office	Wallboard	NAD
60	Main Office	Wallboard Joint Compound	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
61	Main Office	Wallboard Joint Compound	NAD
62	Main Office	Wallboard Joint Compound	NAD
63	Psychologist Room	2x2.5 Ceiling Tile	NAD
64	Faculty Lounge	2x2.5 Ceiling Tile	NAD
65	Faculty Lounge	Wallboard	NAD
66	Faculty Lounge	Wallboard Joint Compound	NAD
67	Restroom	2x4 Ceiling Tile	NAD
68	Computer Room	Wallboard	NAD
69	Computer Room	Wallboard Joint Compound	NAD
70	Boy's Room	Wallboard	NAD
71	Boy's Room	Wallboard Joint Compound	NAD
72	Boy's Room	2x2 Ceiling Tile	NAD
73	Girl's Room	2x2 Ceiling Tile	NAD
74	Main Entrance Area	Interior Door Frame Caulking	NAD
75	Main Entrance Area	Interior Door Frame Caulking	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
76	Main Entrance Area	Exterior Door Frame Caulking	NAD
77	Main Entrance Area	Exterior Door Frame Caulking	NAD
78	Main Entrance Area	Exterior Door Frame Caulking	NAD
79	Main Entrance Area	12” Green Vinyl Floor Tile	NAD
80	Main Entrance Area	12” Green Vinyl Floor Tile	NAD
81	Main Entrance Area	Dark Brown Glue for 12” Green Vinyl Floor Tile	NAD
82	Main Entrance Area	Dark Brown Glue for 12” Green Vinyl Floor Tile	NAD
83	Main Entrance Area	12” Blue Vinyl Floor Tile	NAD
84	Main Entrance Area	12” Blue Vinyl Floor Tile	NAD
85	Main Entrance Area	12” Blue Vinyl Floor Tile	NAD
86	Main Entrance Area	Brown Glue for 12” Blue Vinyl Floor Tile	NAD
87	Main Entrance Area	Brown Glue for 12” Blue Vinyl Floor Tile	NAD
88	Main Entrance Area	Brown Glue for 12” Blue Vinyl Floor Tile	NAD
89	Library	Wallboard	NAD
90	Library	Wallboard	NAD

NAD = No Asbestos Detected

Sample #	Sample Location	Material Sampled	Percent Asbestos
91	Library	Wallboard Joint Compound	NAD
92	Library	Wallboard Joint Compound	NAD
93	Library	2x2.5 Ceiling Tile	NAD
94	Library	2x2.5 Ceiling Tile	NAD
95	Main Entrance Area	2x4 Ceiling Tile	NAD
96	Main Entrance Area	2x4 Ceiling Tile	NAD

Sample #	Sample Location	Material Sampled	Percent Asbestos
C1	Room 184 Janitor	Interior Window Caulk	NAD
C2	Room 184 Janitor	Interior Window Caulk	NAD
C3	Room 184 Janitor	Interior Window Caulk	NAD
C4	Room 184 Janitor	White Door Frame Caulk	NAD
C5	Room 184 Janitor	White Door Frame Caulk	NAD
C6	Room 184 Janitor	White Door Frame Caulk	NAD
C7	Room 184 Janitor	Gray Exterior Window Frame Caulking	NAD
C8	Room 184 Janitor	Gray Exterior Window Frame Caulking	NAD
C9	Room 184 Janitor	Gray Exterior Window Frame Caulking	NAD
C10	Area B – Room 115	Brown Duct Seam Sealant	NAD
C11	Area B – Room 115	Brown Duct Seam Sealant	NAD
C12	Area B – Room 116	Gray/Brown Duct Seam Sealant	NAD
C13	Area B – Room 116	Gray/Brown Duct Seam Sealant	NAD
C14	Area B – Room 128	Gray/Brown Duct Seam Sealant	NAD
C15	Area B – Room 128	Gray/Brown Duct Seam Sealant	NAD
C16	Main Office	Gray Window Glazing Putty	NAD
C17	Main Office	Gray Window Glazing Putty	NAD

NAD = No Asbestos Detected

III. LABORATORY ANALYSIS REPORT

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Laboratory Analysis Report

Asbestos – Bulk

To: Woodard and Curran
40 Shattuck Road, Suite 110
Andover, MA, 01810

Project #: IH-23-1880

Lab #: 26990
Date Collected: 12/27/2023
Date Received: 12/18/2023
Date Analyzed: 1/4/2024
Date Report Prepared: 1/9/2024

Analysis: Asbestos Fiber Content
Analysis Type: Asbestos by Polarized Light Microscopy
Location: Osborn Hill Elementary School - 760 Stillson Road, Fairfield, CT

Test Methods: U.S. Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos In Bulk Insulation Samples (EPA600/M4-82-020) as found in 40 CFR, Part 763, Appendix E to Subpart or the current U.S. EPA method for the analysis of asbestos in building material.

U.S. Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey.

Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
1	Room #23 (Kiln Room) | 2x2 Ceiling Tile	Gray Fibrous	No Asbestos Detected
2	Room #23 (Kiln Room) | 2x2 Ceiling Tile	Gray Fibrous	No Asbestos Detected
3	Room #23 (Kiln Room) | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
4	Room #23 (Kiln Room) | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
5	Room #23 (Kiln Room) | Drywall	Light Gray Cementitious	No Asbestos Detected
6	Room #23 (Kiln Room) | Drywall	Light Gray Cementitious	No Asbestos Detected
7	Room #23 (Kiln Room) | Drywall – Joint Compound	White Compound	No Asbestos Detected
8	Room #23 (Kiln Room) | Drywall – Joint Compound	White Compound	No Asbestos Detected
9	Girls Room | 2x2 Ceiling Tile	Off-White/Brown Fibrous	No Asbestos Detected
10	Girls Room | 2x2 Ceiling Tile	Off-White/Brown Fibrous	No Asbestos Detected
11	Girls Room | Drywall	Light Gray Cementitious	No Asbestos Detected
12	Girls Room | Drywall	Light Gray Cementitious	No Asbestos Detected
13	Girls Bathroom | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
14	Girls Bathroom | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
15	Boys Room | 2x2 Ceiling Tile	White/Brown Fibrous	No Asbestos Detected
16	Boys Room | 2x2 Ceiling Tile	White/Brown Fibrous	No Asbestos Detected
17	Boys Room| Drywall	Light Gray Cementitious	No Asbestos Detected

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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
18	Boys Room | Drywall	Light Gray Cementitious	No Asbestos Detected
19	Boys Room | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
20	Boys Room | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
21	Boiler Room Storage | 2x4 Ceiling Tile	Gray Fibrous	No Asbestos Detected
22	Boiler Room Storage | 2x4 Ceiling Tile	Gray Fibrous	No Asbestos Detected
23	Boiler Room Storage | Drywall	Light Gray Cementitious	No Asbestos Detected
24	Boiler Room Storage | Drywall	Light Gray Cementitious	No Asbestos Detected
25	Boiler Room Storage | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
26	Boiler Room Storage | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
27	Cafeteria | Drywall	Light Gray Cementitious	No Asbestos Detected
28	Cafeteria | Drywall	Light Gray Cementitious	No Asbestos Detected
29	Cafeteria | Drywall	Light Gray Cementitious	No Asbestos Detected
30	Cafeteria | Drywall	Light Gray Cementitious	No Asbestos Detected
31	Cafeteria | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
32	Cafeteria | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
33	Cafeteria | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
34	Cafeteria | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
35	Kitchen (Office) | 2x4 Ceiling Tile	Dark Gray/White Fibrous	No Asbestos Detected
36	Kitchen (Laundry Room) | 2x4 Ceiling Tile	Dark Gray/White Fibrous	No Asbestos Detected
37	Kitchen (Storage) | 2x4 Ceiling Tile	Dark Gray/White Fibrous	No Asbestos Detected
38	Kitchen (Bathroom) | 2x4 Ceiling Tile	Dark Gray/White Fibrous	No Asbestos Detected
39	Kitchen (Laundry Room) | 2x2.5 Ceiling Tile	Light Gray/White Fibrous	No Asbestos Detected
40	Kitchen (Laundry Room) | 2x2.5 Ceiling Tile	Light Gray/White Fibrous	No Asbestos Detected
41	Kitchen (Supplies Room) | Drywall	Gray Cementitious	No Asbestos Detected
42	Kitchen (Hallway) | Drywall	Gray Cementitious	No Asbestos Detected

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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
43	Kitchen (Supply Room) | Drywall – Joint Compound	White Compound	No Asbestos Detected
44	Kitchen (Hallway) | Drywall – Joint Compound	White Compound	No Asbestos Detected
45	Kitchen (Supply Room) | Drywall Ceiling	Gray Cementitious	No Asbestos Detected
46	Kitchen (Supply Room) | Drywall Ceiling	Gray Cementitious	No Asbestos Detected
47	Kitchen (Supply Room) | Ceiling Joint Compound	White Compound	No Asbestos Detected
48	Kitchen (Supply Room) | Ceiling Joint Compound	White Compound	No Asbestos Detected
49	Kitchen (Supply Room) | 2x4 Ceiling Tile	Gray Fibrous	No Asbestos Detected
50	Kitchen (Supply Room) | 2x4 Ceiling Tile	Dark Gray Fibrous	No Asbestos Detected
51	Main Office (Hallway) | 2x2 Ceiling Tile	Dark Gray Fibrous	No Asbestos Detected
52	Main Office (Hallway) | 2x2 Ceiling Tile	Dark Gray Fibrous	No Asbestos Detected
53	Main Office (Reception) | 2x2.5 Ceiling Tile	Dark Gray Fibrous	No Asbestos Detected
54	Main Office (Nurse's Room) | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
55	Main Office (Hallway) | 2x4 Ceiling Tile	Gray Fibrous	No Asbestos Detected
56	Main Office (Hallway) | 2x4 Ceiling Tile	Gray Fibrous	No Asbestos Detected
57	Main Office (Reception) | Drywall	Dark Gray Cementitious	No Asbestos Detected
58	Main Office (Nurse's Room) | Drywall	Dark Gray Cementitious	No Asbestos Detected
59	Main Office (Principal's Room) | Drywall	Gray Cementitious	No Asbestos Detected
60	Main Office (Reception) | Drywall – Joint Compound	White Compound	No Asbestos Detected
61	Main Office (Nurse's Room) | Drywall – Joint Compound	White Compound	No Asbestos Detected
62	Main Office (Principal's Room) | Drywall – Joint Compound	White Compound	No Asbestos Detected
63	Psychologist's Room | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
64	Faculty Lounge | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
65	Faculty Lounge | Drywall	Gray Cementitious	No Asbestos Detected
66	Faculty Lounge | Drywall – Joint Compound	White Compound	No Asbestos Detected
67	Restroom | 2x4 Ceiling Tile	Gray Fibrous	No Asbestos Detected

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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
68	Computer Room | Drywall	Gray Cementitious	No Asbestos Detected
69	Computer Room | Drywall – Joint Compound	White Compound	No Asbestos Detected
70	Boy's Room | Drywall	Gray Cementitious	No Asbestos Detected
71	Boy's Room | Drywall – Joint Compound	Off-White Compound	No Asbestos Detected
72	Boy's Room | 2x2 Ceiling Tile	Brown Fibrous	No Asbestos Detected
73	Girl's Room | 2x2 Ceiling Tile	Brown Fibrous	No Asbestos Detected
74	Main Entrance Area | Interior Door Caulking	Light Gray Caulking	No Asbestos Detected
75	Main Entrance Area | Interior Door Caulking	Light Gray Caulking	No Asbestos Detected
76	Main Entrance Area | Exterior Door Caulking	Light Gray Caulking	No Asbestos Detected
77	Main Entrance Area | Exterior Door Caulking	Gray/Red Caulking	No Asbestos Detected
78	Main Entrance Area | Exterior Door Caulking	Gray Caulking	No Asbestos Detected
79	Main Entrance Area | 12x12 Vinyl Floor Tile	Green Tile	No Asbestos Detected
80	Main Entrance Area | 12x12 Vinyl Floor Tile	Green Tile	No Asbestos Detected
81	Main Entrance Area | 12x12 Vinyl Floor Tile Glue	Dark Brown Glue	No Asbestos Detected
82	Main Entrance Area | 12x12 Vinyl Floor Tile Glue	Dark Brown Glue	No Asbestos Detected
83	Main Entrance Area | 12x12 Vinyl Floor Tile	Blue Tile	No Asbestos Detected
84	Main Entrance Area | 12x12 Vinyl Floor Tile	Blue Tile	No Asbestos Detected
85	Main Entrance Area | 12x12 Vinyl Floor Tile	Blue Tile	No Asbestos Detected
86	Main Entrance Area | 12x12 Vinyl Floor Tile Glue	Brown Glue	No Asbestos Detected
87	Main Entrance Area | 12x12 Vinyl Floor Tile Glue	Brown Glue	No Asbestos Detected
88	Main Entrance Area | 12x12 Vinyl Floor Tile Glue	Brown Glue	No Asbestos Detected
89	Library | Drywall	Light Gray Cementitious	No Asbestos Detected
90	Library | Drywall	Light Gray Cementitious	No Asbestos Detected
91	Library | Drywall – Joint Compound	White Compound	No Asbestos Detected
92	Library | Drywall – Joint Compound	White Compound	No Asbestos Detected

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Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
93	Library | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
94	Library | 2x2.5 Ceiling Tile	Gray Fibrous	No Asbestos Detected
95	Main Entrance Area | 2x4 Ceiling Tile	White Fibrous	No Asbestos Detected
96	Main Entrance Area | 2x4 Ceiling Tile	White/Gray Fibrous	No Asbestos Detected

Accredited for Bulk Asbestos Analysis by AIHA-LAP #100120 CT DPH #PH-0571 MA-DLS #AA000245 RI-PLM00148

Estimated Limit of Reporting: <1% asbestos.

The samples arrived in acceptable condition. The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the samples tested. There exists a degree of variability for the results due to the inherent uncertainty within the analytical method. The concentration of asbestos is determined by visual estimation. This report must NOT be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Analyst: Maylani Velazquez Date: 1/9/2024
Maylani Velazquez

Technical Manager: Lawrence Cannon Date: 1/9/2024
Lawrence Cannon

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26990
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard and Curran 960 Stillson Road, Fairfield, CT	TH-23-1880	James Sserunjogi 12/27/23	☐ 24hr ☐ 3-5 Days
Specific Location(s): Osborn Hill Elementary School			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
1	2x2 ceiling tile (room 23 - kiln room)	21	Y	gray Fibrous	Y		<0.01						5% Cellulose 30% Fiberglass	Incomplete Extinction Isotropic	65% Particulate	NAD
2	2'x2' ceiling tile (room 23 - kiln room)	21	Y	gray Fibrous	Y								3% Cellulose 25% Fiberglass	Incomplete Extinction Isotropic	72% Particulate	NAD
3	2'x2.5' ceiling tile (room 23 - kiln room)	21	Y	gray Fibrous	Y								4% Cellulose 35% Fiberglass	Incomplete Extinction Isotropic	61% Particulate	NAD
4	2'x2.5' ceiling tile (room 23 - kiln room)	21	Y	gray Fibrous	Y								6% Cellulose 30% Fiberglass	Incomplete Extinction Isotropic	64% Particulate	NAD
5	Drywall (room 23 - kiln room)	21	Y	1. gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
6	Drywall (room 23 - kiln room)	21	Y	1. gray cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
7	Drywall - Joint compound (room 23 - kiln room)	21	Y	White Comp	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
8	Drywall - Joint Compound (room 23 - kiln room)	21	Y	White Comp	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD

NAD: No Asbestos Detected

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide: 1866-Chry	JS	12/28/2023	Maylani Velazquez	1/4/2024	
QC: 7, 17, 27, 37, 47, 57, 67, 77, 87, 96	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26990

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran 100 Stillson Road, Fairfield, CT

Project/Job#: TH-23-1880

Collected by/Date: James Sserunjogi 12/27/23

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Specific Location(s): Osborn Hill Elementary School

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
9	2'x2' ceiling tile (Girls room)	21	Y	Off-White/Brown Fibrous	Y								10% Cellulose 60% Fiberglass	Incomplete Extinction Isotropic	30% Particulate	NAD
10	2'x2' ceiling tile (Girls room)	21	Y	Off-White/Brown Fibrous	Y								5% Cellulose 55% Fiberglass	Incomplete Extinction Isotropic	40% Particulate	NAD
11	Drywall (Girls room)	21	Y	1. gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
12	Drywall (Girls room)	21	Y	1. gray Cementitious	Y		0.01/0.05						3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
13	Drywall - Joint Compound (Girls room)	21	Y	Off-White Comp	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
14	Drywall - Joint Compound (Girls room)	21	Y	Off-White Comp	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
15	2'x2' ceiling tile (boys room)	21	Y	White/Brown Fibrous	Y								3% Cellulose 40% Fiberglass	Incomplete Extinction Isotropic	57% Particulate	NAD
16	2'x2' ceiling tile (boys room)	21	Y	White/Brown Fibrous	Y								5% Cellulose 50% Fiberglass	Incomplete Extinction Isotropic	45% Particulate	NAD

NAD: No Asbestos Detected

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Maylani Velampuri	1/4/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26990
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard and Curran 960 Stillson Road, Fairfield, CT	TH-23-1880	James Sserunjogi 12/27/23	☐ 24hr ☐ 3-5 Days
Specific Location(s): Osborn Hill Elementary School			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
17	Drywall (boys room)	21	Y	l.gray cementitw	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
18	Drywall (boys room)	21	Y	l.gray cementitw	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
19	Drywall-Joint compound (boys room)	21	Y	off-white comp	Y								7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
20	Drywall-Joint compound (boys room)	21	Y	off-white comp	Y		0.01/0.05						2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
21	2'x4' Ceiling tile (Boiler room-storage)	21	Y	gray Fibrous	Y								4% Cellulose / 30% Fiberglass	Incomplete Extinction Isotropic	66% Particulate	NAD
22	2'x4' Ceiling tile (Boiler room-storage)	21	Y	gray Fibrous	Y								3% Cellulose / 35% Fiberglass	Incomplete Extinction Isotropic	62% Particulate	NAD
23	Drywall (Boiler room-storage)	21	Y	l.gray cementitw	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
24	Drywall (Boiler room-storage)	21	Y	l.gray cementitw	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

NAD: No Asbestos Detected

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	J.S	12/28/2023	Maylani Velazquez	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26990
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time: ☐ 24hr ☐ 3-5 Days
Woodard and Curran 700 Stillson Road, Fairfield, CT	TH-23-1880	James Sserunjogi 12/27/23	Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116
Specific Location(s): Osborn Hill Elementary School			

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
25	Drywall- Joint compound (Boiler room- Storage)	21	Y	off-white Comp	Y								5% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	95% Particulate	NAD
26	Drywall- Joint compound (Boiler room- Storage)	21	Y	off-white Comp	Y		0.01/0.15						3% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	97% Particulate	NAD
27	Drywall (Cafeteria)	21	Y	l.gray Cementitw	Y								2% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	98% Particulate	NAD
28	Drywall (Cafeteria)	21	Y	l.gray Cementitw	Y								4% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	96% Particulate	NAD
29	Drywall (Cafeteria)	21	Y	l.gray Cementitw	Y								2% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	98% Particulate	NAD
30	Drywall (Cafeteria)	21	Y	l.gray Cementitw	Y								3% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	97% Particulate	NAD
31	Drywall- Joint compound (Cafeteria)	21	Y	off-white Comp	Y								7% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	93% Particulate	NAD
32	Drywall- Joint compound (Cafeteria)	21	Y	White Comp	Y								3% Cellulose / Fiberglass	Incomplete Extinction / Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested — NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Maulami Velamguru	1/5/2024	
QC:	TC	12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26990
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard and Curran 100 Stillson Road, Fairfield, CT	TH-23-1880	James Ssenyonga 12/27/23	☐ 24hr ☐ 3-5 Days
Specific Location(s): Osborn Hill Elementary School			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
33	Drywall - Joint compound (cafeteria)	21	Y	off-white comp	Y								5% Cellulose	Incomplete	95% Particulate	NAD
													Fiberglass	Extinction		
														Isotropic		
34	Drywall - Joint compound (cafeteria)	21	Y	off-white comp	Y		0.01/0.05						3% Cellulose	Incomplete	97% Particulate	NAD
													Fiberglass	Extinction		
														Isotropic		
35	2'x4' ceiling tile (kitchen/office)	21	Y	Pgray/white Fibrous	Y								10% Cellulose	Incomplete	50% Particulate	NAD
													40% Fiberglass	Extinction		
														Isotropic		
36	2'x4' ceiling tile (kitchen/laundry room)	21	Y	Pgray/white Fibrous	Y								7% Cellulose	Incomplete	58% Particulate	NAD
													35% Fiberglass	Extinction		
														Isotropic		
37	2'x4' ceiling tile (kitchen hallway)	21	Y	Pgray Fibrous	Y								5% Cellulose	Incomplete	55% Particulate	NAD
													40% Fiberglass	Extinction		
														Isotropic		
38	2'x4' ceiling tile (kitchen bathroom)	21	Y	Pgray/white Fibrous	Y								3% Cellulose	Incomplete	52% Particulate	NAD
													45% Fiberglass	Extinction		
														Isotropic		
39	2'x2.5' ceiling tile (kitchen laundry room)	21	Y	l.gray/white Fibrous	Y								10% Cellulose	Incomplete	50% Particulate	NAD
													40% Fiberglass	Extinction		
														Isotropic		
40	2'x2.5' ceiling tile (kitchen laundry room)	21	Y	l.gray/white Fibrous	Y								5% Cellulose	Incomplete	60% Particulate	NAD
													35% Fiberglass	Extinction		
														Isotropic		

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	J.S	12/28/2023	Maylami Velazquez	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26990

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran 100 Stillson Road, Fairfield, CT

Project/Job#: TH-23-1880

Collected by/Date: James Sserunjogi 12/27/23

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Specific Location(s): Osborn Hill Elementary School

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
41	Drywall (kitchen supplies room)	21	Y	gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
42	Drywall (kitchen hallway)	21	Y	gray cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
43	Drywall - Joint compound (kitchen supplies room)	21	Y	white comp	Y		0.01/0.05						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
44	Drywall - Joint compound (kitchen hallway)	21	Y	white comp	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
45	Drywall ceiling (kitchen supplies room)	21	Y	gray cementitious	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
46	Drywall ceiling (kitchen supplies room)	21	Y	gray cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
47	Drywall ceiling - Joint compound (kitchen supplies room)	21	Y	white comp	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
48	Drywall ceiling - Joint compound (kitchen supplies room)	21	Y	white comp	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD

NAD: No Asbestos Detected

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Maylanie Velazquez	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 24990

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran, 100 Stillson Road, Fairfield, CT

Project/Job#: TH-23-1880

Collected by/Date: James Sserunjogi 12/27 to 28/23

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Specific Location(s): Osborn Hill Elementary School

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
49	2'x4' ceiling tile (kitchen supplies room)	21	Y	gray Fibrous	Y								10% Cellulose 30% Fiberglass	Incomplete Extinction Isotropic	60% Particulate	NAD
50	2'x4' ceiling tile (kitchen supplies room)	21	Y	D.gray Fibrous	Y								5% Cellulose 25% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
51	2'x2' ceiling tile (main office/Hallway)	21	Y	D.gray Fibrous	Y								10% Cellulose 35% Fiberglass	Incomplete Extinction Isotropic	55% Particulate	NAD
52	2'x2' ceiling tile (main office/Hallway)	21	Y	D.gray Fibrous	Y		<0.01						4% Cellulose 30% Fiberglass	Incomplete Extinction Isotropic	66% Particulate	NAD
53	2'x2.5' ceiling tile (main office/reception)	21	Y	D.gray Fibrous	Y								5% Cellulose 30% Fiberglass	Incomplete Extinction Isotropic	65% Particulate	NAD
54	2'x2.5' ceiling tile (main office/nurse room)	21	Y	gray Fibrous	Y								5% Cellulose 35% Fiberglass	Incomplete Extinction Isotropic	60% Particulate	NAD
55	2'x4' ceiling tile (main office/Hallway)	21	Y	gray Fibrous	Y								10% Cellulose 25% Fiberglass	Incomplete Extinction Isotropic	65% Particulate	NAD
56	2'x4' ceiling tile (main office/Hallway)	21	Y	gray Fibrous	Y								15% Cellulose 20% Fiberglass	Incomplete Extinction Isotropic	65% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Mayilami Velangani	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26990
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard and Curran 700 Stillson Road, Fairfield, CT	14-23-1880	James Sserunjogi 12/28/23	☐ 24hr ☐ 3-5 Days
Specific Location(s): Osborn Hill Elementary School			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
57	Drywall (main office - reception)	21	Y	D.gray cementitious	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAAD
58	Drywall (main office - Nurse's room)	21	Y	D.gray cementitious	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAAD
59	Drywall (main office - Principal room)	21	Y	gray cementitious	Y		0.101/0.105						3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAAD
60	Drywall - Joint compound (reception)	21	Y	White Comp	Y								8% Cellulose / Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAAD
61	Drywall - Joint compound (Nurse's room)	21	Y	White Comp	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAAD
62	Drywall - Joint compound (Principal room)	21	Y	White Comp	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAAD
63	2'x2.5' ceiling tile (psychologist room)	21	Y	gray Fibrous	Y								10% Cellulose / 20% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAAD
64	2'x2.5' ceiling tile (faculty lounge)	21	Y	gray Fibrous	Y								15% Cellulose / 25% Fiberglass	Incomplete Extinction Isotropic	60% Particulate	NAAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Mayfami Velangan	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 26990
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time: ☐ 24hr ☐ 3-5 Days
Woodard and Curran 100 Stillson Road, Fairfield, CT	TH-23-1880	James Sserunjogi 12/28/23	Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116
Specific Location(s): Osborn Hill Elementary School			

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
65	Drywall (Faculty lounge)	21	Y	gray Cementitious	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
66	Drywall-Joint compound (Faculty lounge)	21	Y	White Comp	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
67	2x4' Ceiling tile (Restroom)	21	Y	gray Fibrous	Y								10% Cellulose 20% Fiberglass	Incomplete Extinction Isotropic	70% Particulate	NAD
68	Drywall (Computer room)	21	Y	gray Cementitious	Y		0.01/0.05						3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
69	Drywall-Joint compound (Computer room)	21	Y	White Comp	Y								2% Cellulose Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
70	Drywall (boys room)	21	Y	gray Cementitious	Y								6% Cellulose Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
71	Drywall-Joint compound (boys room)	21	Y	Off-White Comp	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
72	2x2' ceiling tile (boys room)	21	Y	Brown Fibrous	Y								5% Cellulose 30% Fiberglass	Incomplete Extinction Isotropic	65% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	J.S	12/28/2023	Mayilanii Velangani	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26990

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran 700 Stillson Road, Fairfield, CT

Project/Job#: TH-23-1880

Collected by/Date: James Sserunjogi 12/28/23

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Specific Location(s): Osborn Hill Elementary School

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
73	2'x2' ceiling tile (gir/s room)	21	Y	Brown Fibrous	Y								10% Cellulose 25% Fiberglass	Incomplete Extinction Isotropic	65% Particulate	NAD
74	Interior door caulking (main entrance area)	21	Y	l. gray Caulking	Y								7% Cellulose Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
75	Interior door caulking (main entrance area)	21	Y	l. gray Caulking	Y		0.01/0105						5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
76	Exterior door caulking (main entrance area)	21	Y	l. gray Caulking	Y								4% Cellulose Fiberglass	Incomplete Extinction Isotropic	96% Particulate	NAD
77	Exterior door caulking (main entrance area)	21	Y	gray/red Caulking	Y								5% Cellulose Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
78	Exterior door caulking (main entrance area)	21	Y	gray Caulking	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
79	12"x12" vinyl floortile (main entrance area)	21	Y	green Tile	Y								8% Cellulose Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAD
80	12"x12" vinyl floortile (main entrance area)	21	Y	green Tile	Y								3% Cellulose Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Maulani Langum	1/5/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 26990

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran, 100 Stillson Road, Fairfield, CT

Project/Job#: TH-23-1880

Collected by/Date: James Sserunjogi 12/28/23

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Specific Location(s): Osborn Hill Elementary School

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
81	12"x12" vinyl floor tile glue (main entrance area)	21	Y	Brown glue	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
82	12"x12" vinyl floor tile glue (main entrance area)	21	Y	D. Brown glue	Y		0.01/0.05						7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
83	12"x12" vinyl floor tile (main entrance area)	21	Y	Blue Tile	Y								8% Cellulose / Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAD
84	12"x12" vinyl floor tile (main entrance area)	21	Y	Blue Tile	Y								7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
85	12"x12" vinyl floor tile (main entrance area)	21	Y	Blue Tile	Y								6% Cellulose / Fiberglass	Incomplete Extinction Isotropic	94% Particulate	NAD
86	12"x12" vinyl floor tile glue (main entrance area)	21	Y	Brown glue	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
87	12"x12" vinyl floor tile glue (main entrance area)	21	Y	Brown glue	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
88	12"x12" vinyl floor tile glue (main entrance area)	21	Y	Brown glue	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	JS	12/28/2023	Maylanii Vlangqun	1/8/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Bulk Asbestos (PLM) Analysis

Lab# 26990

Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address:	Project/Job#:	Collected by/Date:	Turn Around Time:
Woodard and Curran 100 Stillson Road, Fairfield, CT	TH-23-1880	James Sserunjogi 12/28/23	☐ 24hr ☐ 3-5 Days
Specific Location(s): Osborn Hill Elementary School			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
89	Drywall (Library)	21	Y	1.gray cementitw	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
90	Drywall (Library)	21	Y	gray cementitw	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
91	Drywall - Joint compound (Library)	21	Y	White Comp	Y		0.01/0.05						7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
92	Drywall - Joint compound (Library)	21	Y	White Comp	Y								5% Cellulose / Fiberglass	Incomplete Extinction Isotropic	95% Particulate	NAD
93	2x2.5' ceiling tile (Library)	21	Y	gray Fibrous	Y								9% Cellulose / Fiberglass	Incomplete Extinction Isotropic	91% Particulate	NAD
94	2'x2.5' ceiling tile (Library)	21	Y	gray Fibrous	Y								7% Cellulose / Fiberglass	Incomplete Extinction Isotropic	93% Particulate	NAD
95	2x4 ceiling tile main entrance area	21	Y	White Fibrous	Y								8% Cellulose / Fiberglass	Incomplete Extinction Isotropic	92% Particulate	NAD
96	2x4' ceiling tile main entrance area	21	Y	White/gray Fibrous	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	J.S	12/28/2023	Mayumi Velamyamy	1/8/2024	
QC:	Received by: TC	Date: 12/28/2023	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Laboratory Analysis Report

Asbestos – Bulk

To: Woodard and Curran
40 Shattuck Road, Suite 110
Andover, MA, 01810

Lab #: **27096**
Date Collected: 1/22/2024
Date Received: 1/23/2024
Date Analyzed: 1/23/2024
Date Report Prepared: 1/23/2024

Project #: IH-23-1880

Analysis: Asbestos Fiber Content
Analysis Type: Asbestos by Polarized Light Microscopy
Location: **Osborn Elementary School –** 760 Stillson Road, Fairfield, CT

Test Methods: U.S. Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos In Bulk Insulation Samples (EPA600/M4-82-020) as found in 40 CFR, Part 763, Appendix E to Subpart or the current U.S. EPA method for the analysis of asbestos in building material.

U.S. Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey.

Sample #	Sample Location/Type	Material Sampled/Color	Percent Asbestos
C1	Room 184 Janitor | Interior Window Caulk	Gray Caulking	No Asbestos Detected
C2	Room 184 Janitor | Interior Window Caulk	Gary Caulking	No Asbestos Detected
C3	Room 184 Janitor | Interior Window Caulk	Gray Caulking	No Asbestos Detected
C4	Room 184 Janitor | Door Caulk	White Caulking	No Asbestos Detected
C5	Room 184 Janitor | Door Caulk	White Caulking	No Asbestos Detected
C6	Room 184 Janitor | Door Caulk	White Caulking	No Asbestos Detected
C7	Room 184 | Exterior Window Caulking	Gray Caulking	No Asbestos Detected
C8	Room 184 | Exterior Window Caulking	Gray Caulking	No Asbestos Detected
C9	Room 184 | Exterior Window Caulking	Gray Caulking	No Asbestos Detected
C10	Area B – 115 | HVAC Duct Seam Sealent	Brown Sealant	No Asbestos Detected
C11	Area B – 115 | HVAC Duct Seam Sealent	Brown Sealant	No Asbestos Detected
C12	Area B – 116 | HVAC Duct Seam Sealent	Gray/Brown Sealant	No Asbestos Detected
C13	Area B – 116 | HVAC Duct Seam Sealent	Gray/Brown Sealant	No Asbestos Detected
C14	Area B – 128 | HVAC Duct Seam Sealent	Gray/Brown Sealant	No Asbestos Detected
C15	Area B – 128 | HVAC Duct Seam Sealent	Gray/Brown Sealant	No Asbestos Detected
C16	Main Office | Window Glazing	Gray Glazing	No Asbestos Detected
C17	Main Office | Window Glazing	Gray Glazing	No Asbestos Detected

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Accredited for Bulk Asbestos Analysis by AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA000245 RI-PLM00148

Estimated Limit of Reporting: <1% asbestos.

The samples arrived in acceptable condition. The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the samples tested. There exists a degree of variability for the results due to the inherent uncertainty within the analytical method. The concentration of asbestos is determined by visual estimation. This report must NOT be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Analyst: Thuy Chamberland Date: 1/23/2024

Thuy Chamberland

Technical Manager: Lawrence Cannon Date: 1/23/2024

Lawrence Cannon

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 27096
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: woodard and curran, osborn Elementary school (760 Stillson Rd, Fairfield, CT)

Project/Job#: IH-23-1880

Collected by/Date: MM 1/22/2024

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Specific Location(s):

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
1	Interior window caulk - Room 184 (Janitor's)	21	Y	Gray caulky	Y		001/005						3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
2	Interior window caulk - Room 184 (Janitor's)	21	Y	Gray caulky	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
3	Interior window caulk - Room 184 (Janitor's)	21	Y	Gray caulky	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
4	Door caulk - Room 184 (Janitor's)	21	Y	White caulky	Y								1% Cellulose / Fiberglass	Incomplete Extinction Isotropic	99% Particulate	NAD
5	Door caulk - Room 184 (Janitor's)	21	Y	White caulky	Y								1% Cellulose / Fiberglass	Incomplete Extinction Isotropic	99% Particulate	NAD
6	Door caulk Room 184 (Janitor's)	21	Y	White caulky	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
7	Exterior window caulking - Room 184	21	Y	Gray caulky	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
8	Exterior window caulking - Room 184	21	Y	Gray caulky	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:

Reference Slide: –

QC: 7, 17

Relinquished by: [signature] Date: 1/22/2024

Received by: [signature] Date: 1/23/2024

Analyzed by: [signature] Date: 1/23/2024

Approved by: Date:

Additional Comments: Room 184 Door Frame caulk - 6'9" Inft window Frame caulk Room 184 Interior - 4'0" x 4'9"

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form

Bulk Asbestos (PLM) Analysis

Lab# 27096
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran; Osborn Elementary School (760 Stillson Rd, Fairfield, CT)

Project/Job#: IH-23-1880

Collected by/Date: MM 1/22/2024

Turn Around Time: ☐ 24hr ☐ 3-5 Days

Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Specific Location(s):

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
9	Exterior window caulking - Room 184	21	Y	Gray caulking	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
10	Area B - 115 HVAC Duct Seam Sealent	21	Y	Brown sealant	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
11	Area B - 115 HVAC Duct Seam Sealent	21	Y	Brown sealant	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
12	Area B - 116 Hvac Duct Seam Sealent	21	Y	Gray/Brown sealant	Y								3% Cellulose / Fiberglass	Incomplete Extinction Isotropic	97% Particulate	NAD
13	Area B - 116 Hvac Duct Seam Sealent	21	Y	Gray/Brown sealant	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
14	Area B - 128 Hvac Duct Seam Sealent	21	Y	Gray/Brown sealant	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
15	Area B - 128 Hvac Duct Seam Sealent	21	Y	Gray/Brown sealant	Y		<0.01						3% Cellulose / 15% Fiberglass	Incomplete Extinction Isotropic	82% Particulate	NAD
16	Main office - window glazing	21	Y	Gray glazing	Y								4% Cellulose / Fiberglass	Incomplete Extinction Isotropic	96% Particulate	NAD

The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by:	Date:	Analyzed by:	Date:	Additional Comments:
Reference Slide:	[signature]	1/22/2024	[signature]	1/23/2024	Main office window glazing - 2' 7" x 3' 5"
QC:	Received by: [signature]	Date: 1/23/2024	Approved by:	Date:	Hvac sealent - 0' 8"

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

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Chain of Custody Form
Bulk Asbestos (PLM) Analysis

Lab# 27096
Tel: (203) 238-4846
Fax: (203) 238-4243

Company Name and Address: Woodard and Curran; Osborn Elementary School (760 Stillson Rd, Fairfield, CT)	Project/Job#: IH-23-1880	Collected by/Date: MM 1/22/2024	Turn Around Time: ☐ 24hr ☐ 3-5 Days
Specific Location(s):			Sampling Method: ☐ 40 CFR Part 763.86 ☐ 20 CFR Part 1926.1101 ☐ EPA #600/R-93/116

Analytical Method: Polarized Light Microscopy (PLM) with Dispersion Staining

Sample #	Sample Location	Temperature (°C)	Homogenous (Y/N)	Gross Appearance (Color/Texture)	Stereo Microscope (Y/N)/ Estimated Type of Asbestos	Morphology	Refraction Index (Parallel/Perpendicular)	Dispersion colors Parallel/Perpendicular	Extinction Characteristics (Parallel, Oblique, Undulose)	Sign of Extinction (+/-)	Pleochroism (Color) Parallel/Perpendicular	Birefringence (o, l, m, h)	Types of non-asbestos fibers present (and %)	Non Asbestos fiber optical properties	Type(s) & percent of (non-fibrous) materials present	Total % Asbestos
17	main office-window glazing	21	Y	Gray glazing	Y								2% Cellulose / Fiberglass	Incomplete Extinction Isotropic	98% Particulate	NAD
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	
													Cellulose / Fiberglass	Incomplete Extinction Isotropic	Particulate	

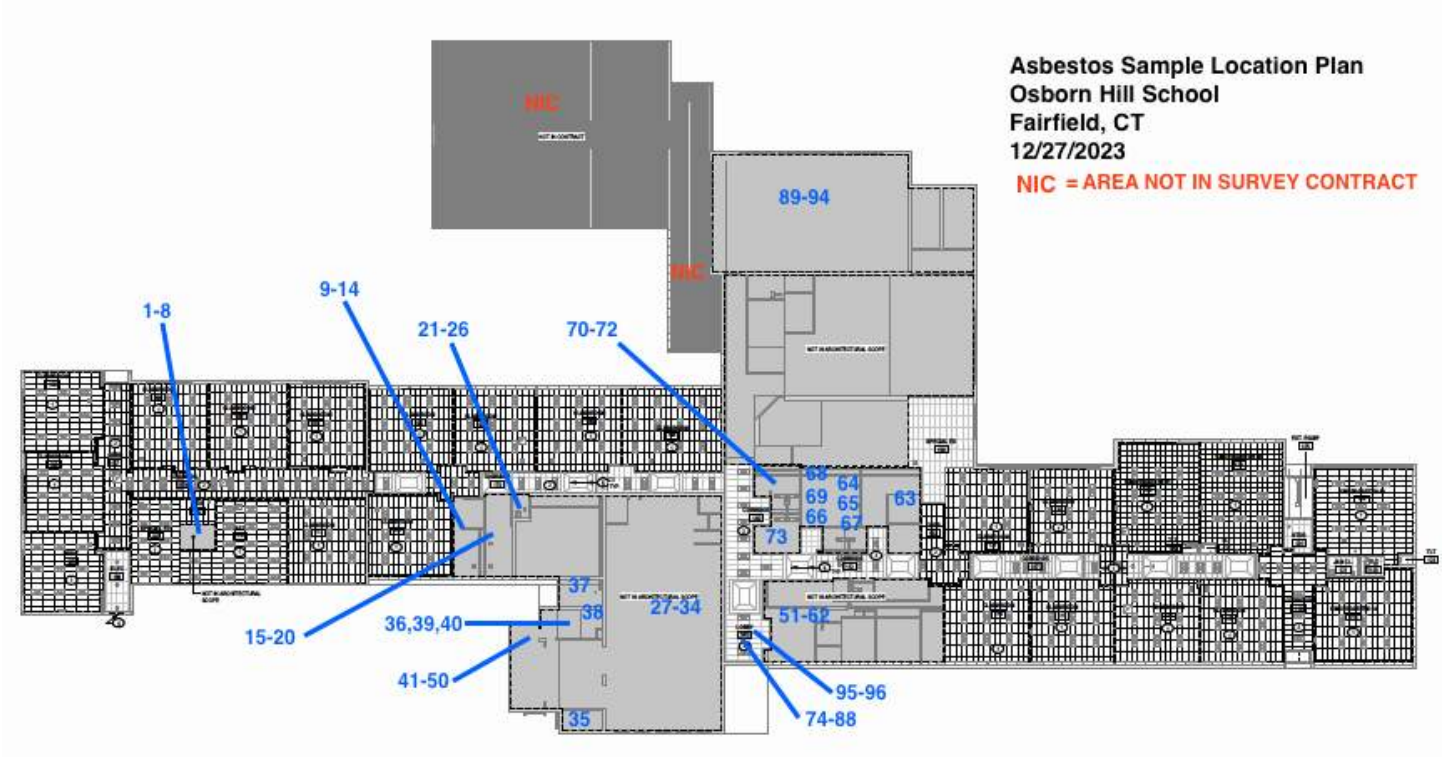
The results of this analysis were obtained by a qualified individual using approved methodology and relate only to the items tested

NAD: No Asbestos Detected

Laboratory Personnel:	Relinquished by: MM	Date: 1/22/2024	Analyzed by: [signature]	Date: 1/23/2024	Additional Comments:
Reference Slide:					Exterior window frame caulk Room 184 - 7'10" x 7'10"
QC:	Received by: [signature]	Date: 1/23/2024	Approved by:	Date:	

Accredited for Bulk Asbestos Analysis: AIHA LAP #100120 CT DPH #PH-0571 MA-DLS #AA00245 RI-PLM00148

IV. SAMPLE LOCATION PLAN


Asbestos Sample Location Plan
Osborn Hill School
Fairfield, CT
12/27/2023
NIC = AREA NOT IN SURVEY CONTRACT
NIC
NIC
89-94
1-8
9-14
21-26
70-72
68
64
69
65
66
67
63
73
37
38
27-34
36,39,40
15-20
41-50
35
51-62
95-96
74-88

APPENDIX B: LEAD PAINT REPORT – ENVIROMED SERVICES

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LEAD INSPECTION REPORT

FOR

Osborn Hill Elementary School

760 Stillson Road,

Fairfield, CT

PREPARED
FOR
Woodard & Curran
40 Shattuck Road, Suite 110
Andover, MA 01810

DD - DRAFT SUBMISSION

DATE OF INSPECTION

December 27-28, 2023

ENVIROMED PROJECT # IH-23-1880

470 MURDOCK AVE., MERIDEN, CT 06450
TELEPHONE (203) 238-4846 • FACSIMILE (203) 238-4243

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I. Project Narrative

On December 27-28, 2023 EnviroMed Services Inc. performed a lead inspection using a Viken direct read pb200i XRF lead paint spectrum analyzer at Osborn Hill School, 760 Stilson Road, Fairfield, CT. The lead inspection focused primarily on structural steel in the school. Reinforcing steel needs to be welded to the existing structural steel in the school to support the installation of rooftop HVAC units. The secondary focus of the inspection was interior walls which need to be drilled through during renovations to support the installation of new pipe and conduit servicing the new HVAC system. The State of Connecticut Lead Regulations (19a-111-1(59)) deem paint to be a "toxic level" (actionable) when XRF reading is equal or greater than 1.00 milligrams per centimeter squared (mg/cm^2), or 0.50% by weight in dry form by flame atomic absorption spectrophotometer. Federal OSHA regulates the disturbance of paint containing any measurable level of lead. Lead Inspector Max Mauro (CT license #002313) performed the inspection, employed by EnviroMed Services (CT license # 000897), the certified lead consultant.

Methodology

This inspection was performed using a Viken direct read pb200i XRF lead paint spectrum analyzer.

The Federal Environmental Protection Agency (EPA) and State Health Department (CT DPH) regulations deem paint to be at a “toxic level” for an XRF reading that is equal or greater than 1.00 milligrams per centimeter squared (mg/cm^2). Federal OSHA regulates the disturbance of paint containing any measurable level of lead.

II. Summary of Findings

X-ray Fluorescence (XRF) Results

A total of 74 XRF readings were taken, with 7 of these XRF readings at toxic levels above 1.0 mg/cm^2.

The following painted building components were found to have Toxic XRF Readings at Osborn Hill School:

Orange/Red structural steel beams

The wall paint tested in Osborn Hill School was found to contain lead at a level <1.0 mg/cm^2.

IV. Lead Inspection Results

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Woodard & Curran
Inspection Date: 12/27/23
Report Date: 1/17/2024 Osborn Hill Elementary School
Abatement Level: 1.0 IH-23-1880
Report No. 12/28/23 4:45
Total Readings:
Job Started: 12/28/23 4:45
Job Finished: 12/28/23 4:45

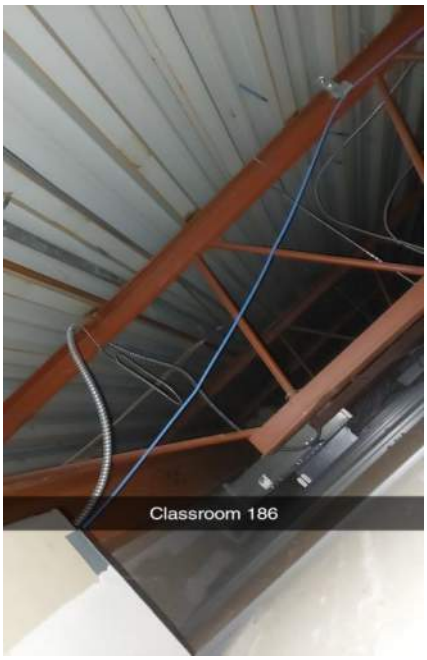
Read No	Room Name	Structure	Paint Condition	Paint Substrate Color	(mg/cm^2)	Mode
1	Calibration				1.04	TC
2	Calibration				1.09	TC
3	Calibration				1.14	TC
4	Classroom 186	Ceiling Deck	I	Gray	0.1	QM
5	Classroom 186	Metal Pipe Supporting Roof Deck	I	Gray	0.4	QM
6	Classroom 186	Ceiling Support Metal	I	Tan	0.2	QM
7	Classroom 186	Concrete Wall Above Ceiling Tile	I	Light Gray	0.4	QM
8	Hallway Outside Room 183/ 189	Concrete Wall- A Side	I	Tan	0.4	QM
9	Hallway Outside Room 183/ 189	Concrete Wall C Side	I	Tan	0.6	QM
10	Hallway Outside Room 183/ 189	I Beam	I	Red / Orange	6.9	QM
11	Hallway Outside Room 183/ 189	Ceiling Decking	I	Gray	0.1	QM
12	Hallway Outside Room 183/ 189	Concrete Wall Above Ceiling	I	Yellow	0.5	QM
13	Hallway Outside Room 183/ 189	Concrete Wall Above Ceiling	I	Gray	0.5	QM
14	Hallway Outside Room 183/ 189	Metal Piping Support Decking	I	Black	0.2	QM
15	Outside Classroom 186- Hallway	Roof Decking	I	Gray	0.3	QM
16	Outside Classroom 186 Hallway	Support Metal Member Ceiling Decking	I	Brown	0.2	QM
17	Outside Classroom 186 Hallway	Connectors at Support Members	I	Brown	0.2	QM
18	Outside Classroom 186 Hallway	Metal HVAC Support	I	Gray	0.3	QM
19	Outside Classroom 186 Hallway	I Beam	I	Red / Orange	4.3	QM
20	Outside Classroom 186 Hallway	Concrete Wall Above Ceiling Tile	I	Yellow	0.1	QM
21	Outside Classroom 186 Hallway	Concrete Wall Above Ceiling Tile	I	Gray	0.5	QM
22	Outside Classroom 186 Hallway	Metal Pipe Support Ceiling Decking	I	Gray	0.2	QM
23	Classroom 186	Drywall - Wall D	I	White	0.2	QM
24	Classroom 186	Support Member Metal Decking	I	Brown	0.2	QM
25	Classroom 186	Metal Connectors at Support Members	I	Brown	0.3	QM

Read No	Room Name	Structure	Paint Condition	Paint Substrate Color	(mg/cm^2)	Mode
26	Outside Classroom 186 Hallway	Concrete Wall B	I	Yellow	0.6	QM
27	Outside Classroom 186 Hallway	Concrete Wall B	I	Gray	0.5	QM
28	Outside Classroom 186 Hallway	Metal Box Found in Ceiling	I	Red	0.1	QM
29	Outside Classroom 186 Hallway	Metal Ceiling Decking	I	Gray	0.2	QM
30	Outside Classroom 186 Hallway	I Beam	I	Red / Orange	4.1	QM
31	Outside Classroom 186 Hallway	Support Member Metal decking	I	Brown	0.2	QM
32	Outside Classroom 186 Hallway	Connectors at Support members	I	Brown	0.2	QM
33	Outside Classroom 186 Hallway	Metal HVAC	I	Gray	0.0	QM
34	Outside Classroom 186 Hallway	I- Beam/ Support Above HVAC Duct	I	Red / Orange	2.3	QM
35	Outside Classroom 186 Hallway	Support Pipe	I	Red	0.2	QM
36	Outside Classroom 186 Hallway	HVAC Metal Support	I	Gray	0.1	QM
37	Outside Classroom 186 Hallway	Concrete Wall B- Corridor Wall	I	Beige	0.6	QM
38	Outside Classroom 186 Hallway	Concrete Wall B- Corridor Wall	I	Beige	0.6	QM
39	Outside Classroom 186 Hallway	Concrete Wall D- Corridor Adjacent Wall	I	Beige	0.5	QM
40	Outside Classroom 186 Hallway	Metal Decking	I	Gray	0.2	QM
41	Outside Classroom 186 Hallway	Gray HVAC In Ceiling	I	Gray	0.3	QM
42	Outside Classroom 186 Hallway	Metal Ceiling Support Wiring	I	Gray	0.2	QM
43	Outside Classroom 186 Hallway	Hanger/ Support Structure for Ceiling	I	Black	0.2	QM
44	Outside Classroom 186 Hallway	Support member Metal Decking	I	Brown	0.3	QM
45	Outside Classroom 186 Hallway	Support Pipe/ Tube Running Beneath Metal Decking	I	Gray	0.3	QM
46	Outside Classroom 186 Hallway	I Beam	I	Red / Orange	2.5	QM
47	Hallway 183/189	Support Member Metal Decking	I	Brown	0.1	QM
48	Hallway 183/189	Connectors at Support Members	I	Brown	0.3	QM
49	Hallway 183/189	HVAC Metal Support	I	Gray	0.3	QM
50	Hallway 183/189	HVAC	I	Gray	0.2	QM
51	Hallway 183/189	I Beam	I	Red / Orange	4.9	QM
52	Hallway 183/189	Black Support Piping	I	Black	0.1	QM
53	Hallway Directly Outside 183	Metal Deck	I	Gray	0.2	QM
54	Room 183	C-Wall	I	Beige	0.6	QM

Read No	Room Name	Structure	Paint Condition	Paint Substrate Color	(mg/cm^2)	Mode
55	Room 183	Metal Deck	I	Gray	0.2	QM
56	Room 183	I Beam	I	Red / Orange	4.7	QM
57	Room 183	Support Members Metal Decking	I	Brown	0.4	QM
58	Corridor 118	Wall B	I	Beige	0.3	QM
59	Corridor 118	Wall D	I	Beige	0.1	QM
60	Corridor 118	Ceiling Deck	I	Gray	0.3	QM
61	Hallway 118	Support Member Metal Decking	I	Black	0.1	QM
62	Hallway 118	Connectors at Support Members	I	Black	0.2	QM
63	Hallway 118	Perimeter I beam Support Ceiling	I	Gray	0.2	QM
64	Hallway 118	Red Eye Beam/Perimeter Support	I	Red	0.3-0.2	QM
65	Hallway 118	White Piping	I	White	0.1	QM
66	Hallway 118	Metal Support Pipe / Structure	I	Blue	0.4	QM
67	Hallway 118	Small Gray Metal Support Lines Attached to Box	I	Gray	0.2	QM
68	Hallway 118	Metal Wiring	I	Gray	0.1	QM
69	Classroom 117	Ceiling Deck	I	Gray	0.2	QM
70	118	Connector at Support Member	I	Black	0.2	QM
71	118	Support Member Ceiling Deck	I	Black	0.3	QM
72	118	Black Metal Running Adjacently Through Support Member	I	Black	0.2	QM
73	118	HVAC	I	Gray	0.2	QM
74	Outside Classroom 130	Clasps on Adjacent Black Pipe	I	Gray	0.1	QM
75	Outside Classroom 130	Red Metal I-Beam	I	Red	0.4	QM
76	Outside Classroom 130	Small Perimeter Support Gray Beam	I	Gray	0.2	QM
77	Outside Classroom 130	CMU Wall	I	Concrete	0.6	QM

V. Photographs

Hallway Outside Room 183/ 189- Above Ceiling
Tile Perimeter I Beam



Joist & Ceiling Deck- Classroom 186

Support Member Metal Decking/ Joist C (Classroom 118)

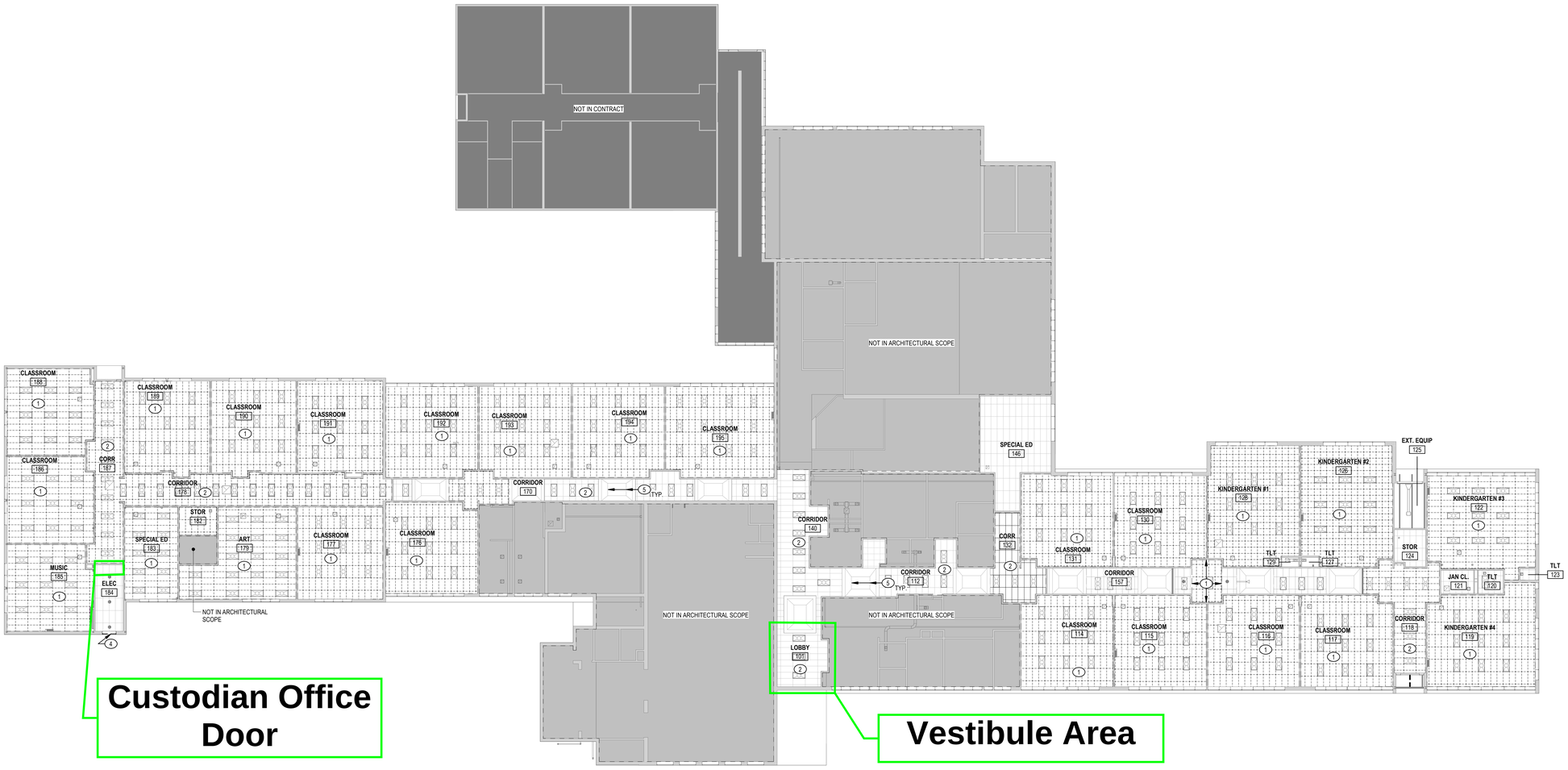
APPENDIX C: SUMMARY OF OBSERVED SUSPECT PCB-CONTAINING BUILDING MATERIALS

Appendix C
Summary of Observed Suspect PCB-Containing Building Materials
Osborn Hill Elementary School - Fairfield Public Schools

Construction Feature	Observed Suspect PCB-Containing Building Materials	Material Location	Physical Description	Asbestos Classification	Preliminary Management Plan
Main Entry Vestibule	Door Frame Caulking	Interior and exterior metal frame to brick joints	Grey, soft, flexible	Non-ACM	Caulking and glazing sealants to be assumed ≥ 50 ppm PCBs; Entry doors, frames, components, and substrate materials designated for removal are to be removed in their entirety for off-site disposal as an assumed PCB Bulk Product Waste.
	Glazing Sealants	Glass to frame joints	Dark gray/black	Non-ACM	
Interior Partition Doors	Door Frame Caulking	Cafeteria - Metal door frame to brick; hallway side of doors	White to off-white, soft, flexible	Non-ACM	Caulking to be assumed ≥ 50 ppm PCBs; Door frames, caulking, and substrate materials designated for removal are to be removed in their entirety for off-site disposal as an assumed PCB Bulk Product Waste.
		Custodian Office - Metal door frame to CMU; hallway side of doors		Non-ACM	
Interior Hallway Windows	Frame to CMU Caulking	Metal to metal	White, soft, flexible	Non-ACM	If disturbed, caulking to be assumed ≥ 50 ppm PCBs; caulking and windows (frames, glass, components) and substrate materials designated for removal are to be removed for disposal as an assumed PCB Bulk Product Waste.
	Frame to Frame Caulking	Metal to CMU			
CMU Walls	White or off-white painted block walls	CMU block walls in hallways, classrooms, and other spaces throughout the building	White to off-white surface coat; multiple layers and colors observed in some areas	Not suspect	Where disturbed, paint and painted CMU block materials to be managed for removal and off-site disposal as an assumed PCB Bulk Product Waste.
Structural Steel	Painted red	Overhead areas throughout the building	Red to pink coloration on structural components	Not suspect	Where disturbed, paint and painted steel to be managed for off-site disposal as an assumed PCB Bulk Product Waste including waste materials generated as part of welding or grinding.
Other Observed Materials - not suspect based on dates of construction					
Roof Top	Caulking at Roof Penetration Points	Metal to metal	Black, hard , brittle	Non-ACM	Based on date of roof construction (2020); caulking sealants are not suspect for PCBs; materials to be removed as general C&D.
Ventilation Duct Work	Metal to Metal Joint Sealants	Metal to metal	Tan, moderately, hard, brittle	Non-ACM	Based on reported date of ventilation system installation (1995/1996); sealants are not suspect for PCBs; materials to be removed as general C&D.
Custodian Office	Window Caulking	Interior metal frame to CMU joints	Grey, soft, flexible, silicone like	Non-ACM	Based on reported date of window replacement (2014); caulking sealants are not suspect for PCBs; potential PCB content of original window caulking removed in 2014 unknown.
		Exterior metal frame to brick joints			
		Metal to metal frame joints			

Notes:
Suspect PCB Containing building materials anticipated to be disturbed based on demolition drawings provided and within accessible potions of the school during site visits on December 16 and 28, 2023.

Appendix C - Summary of Observed Suspect PCB-Containing Building Materials



Notes:
1. Painted CMU block walls present in hallways, classrooms, and other areas throughout the building; paint identified as suspect PCB-containing building material based on the date of construction.
2. Paint on structural steel components observed in overhead areas throughout the building; materials identified as suspect PCB-containing building material based on teh date of construction.
2. Suspect PCB-containing caulking/sealants observed on windows between classrooms and hallways.
3. Suspect PCB-containing caulking observed on door of custodian office to be removed.
4. Suspect PCB-containing caulking and sealants observed on main entry vestibule and cafeteria doors.

1 OVERALL FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN
1/16" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL, INCLUDING ALL COSTS FOR CARRYING AND DUMPING, OF ALL MATERIAL DEMOLISHED FROM THE PROJECT. THE CONTRACTOR SHALL PROVIDE OWNER WITH FIRST RIGHTS TO ALL MATERIALS, INCLUDING DOORS, HARDWARE, WINDOWS, PLUMBING FIXTURES, ETC., BEFORE REMOVING FROM SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING, TO REMAIN AREAS AND SURFACES AS NOTED AND/OR SHOWN. THIS INCLUDES ALL WORK NECESSARY TO READY SURFACES FOR NEW FINISH (N.I.C.) TO FOLLOW IN CONSTRUCTION PHASE. MATCH ALL ADJACENT MATERIALS WHERE PATCHING OCCURS.
3. ANY AND ALL PLUMBING FIXTURES/ACCESSORIES SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY RELATED PIPING WHICH IS BEING ABANDONED SHALL BE REMOVED AND CAPPED TO NEAREST TERMINATION POINT. ALL RELATED WORK REQUIRED IN ADJACENT WALLS, FLOORS BELOW, FLOORS ABOVE OR ON THE EFFECTED FLOOR ITSELF SHALL BE PATCHED AND PREPPED FOR NEW FINISH.
4. ALL WALLS SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY WALL OR SURFACE BEING WORKED ON SHALL BE PATCHED AND REPAIRED WITH A COMPLETE FINISH TO THE NEAREST CORNER, CHANGE OF PLANE OR OTHER JUNCTURE WHICH ALLOWS FOR A SMOOTH AND CLEAN TRANSITION FROM THE NEWLY FINISHED SURFACE TO THE SURROUNDING EXISTING SURFACES (THE INTENT IS TO AVOID THE APPEARANCE OF A PATCHED CONDITION).
5. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL AND OR OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT. PROTECT ALL ITEMS INTENDED FOR SALVAGE AND REUSE OR SCHEDULED TO REMAIN.
6. WHEN ROOF CONSTRUCTION, OR OTHER SUPPORTING AND / OR BRACING ELEMENTS ARE SCHEDULED FOR DEMOLITION, TEMPORARY STRUCTURAL SUPPORTS AND BRACING FOR THE ADJACENT CONSTRUCTION SHALL BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT STRUCTURES ARE IN PLACE AND ABLE TO SUPPORT THE IMPOSED LOADS.
7. PRESERVE AND PROTECT ALL FLOOR, WALL, AND CEILING FINISHES TO REMAIN WHERE POSSIBLE IN AREAS OF DEMOLITION. PATCH TO MATCH AS REQUIRED.
8. REPAIR ALL REMAINING WALLS, CEILINGS AND FLOOR SURFACES WHERE DEMOLITION OCCURS. THIS INCLUDES MEP AND OTHER NECESSARY WORK IN CEILINGS AND WALLS AT FLOOR BELOW. SEE MEP DRAWINGS FOR PROBABLE EXTENT.
9. REFER TO MEP PLANS AND OR SPECS FOR SCOPE OF ALL MEP DEMOLITION.

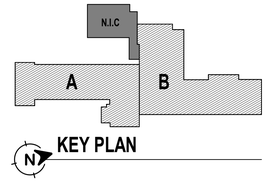
DEMOLITION LEGEND

- EXISTING WALL
- EXISTING WALL TO BE REMOVED
- EXISTING DOOR
- EXISTING DOOR TO BE REMOVED
- EXISTING CEILING TO REMAIN
- EXISTING CEILING TO BE REMOVED
- NOT IN ARCHITECTURAL SCOPE
- EXISTING WINDOW TO BE REMOVED

DEMOLITION KEYNOTES

1 REMOVE AND DISPOSE OF CEILING IN ITS ENTIRETY. PREPARE FOR INSTALLATION OF NEW CEILING. REMOVE, STORE AND REINSTALL ALL EXISTING LIGHTS.
2 REMOVE AND DISPOSE OF CEILING TILES.
4 REMOVE WINDOW CAREFULLY. COORDINATE WITH OWNER IF ITEM IS TO BE STOCKPILED. SAWCUT SILL TO FLOOR TO MATCH WINDOW OPENING. PREPARE FOR INSTALLATION OF NEW DOOR & LITE.
5 <varies>
6 REMOVE AND DISPOSE OF ROOF EQUIPMENT. SEE MECHANICAL DRAWINGS. PREPARE SURFACE FOR PATCHING.
7 REMOVE PORTION OF EXISTING METAL DECK ALONG BEAM OR JOIST LINE.TEMPORARY SUPPORT & PATCHING OF ROOF IS REQUIRED. PREPARE FOR INSTALLATION OF NEW DECKING. SEE STRUCTURAL & MECHANICAL DRAWINGS FOR EXTENT OF DEMOLITION AND EQUIPMENT.

KEY PLAN



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REVISIONS

NO	DATE	DESCRIPTION

Designed: CN
Drawn: LA, MG
Reviewed: JJ
Project No.: 2200053
Date: 9/29/2023
Issued for:
95% CONSTRUCTION DOCUMENTS

Title:
OVERALL DEMOLITION RCP

Sheet No.
AD102.1

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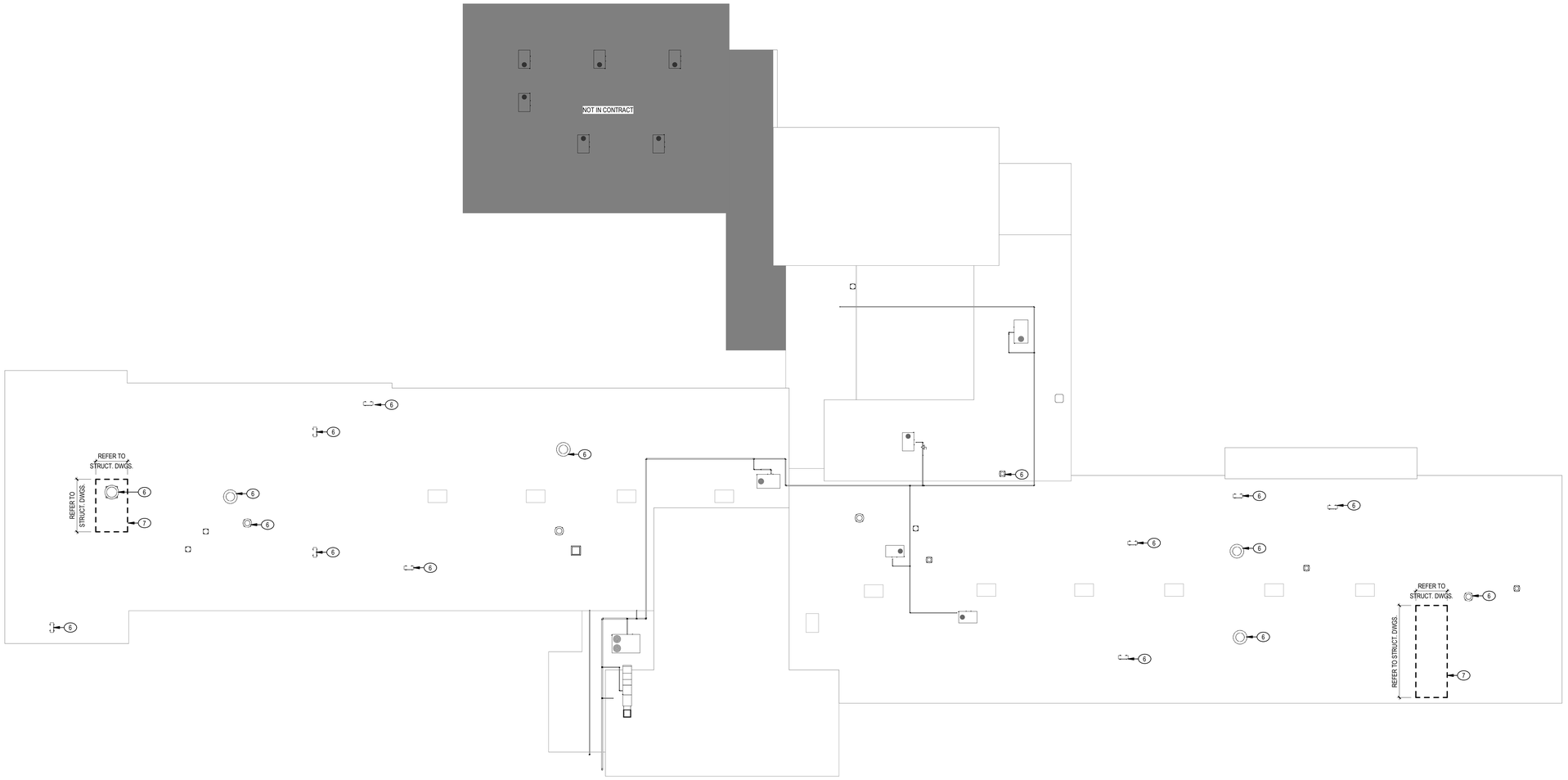
Appendix C - Summary of Observed Suspect PCB-Containing Building Materials



Notes:
1. Caulking sealants on roof area, including flashing and penetration points not considered suspect PCB-containing building materials based on reported date of construction (2020).

1 ROOF
1/16" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL, INCLUDING ALL COSTS FOR CARRYING AND DUMPING, OF ALL MATERIAL DEMOLISHED FROM THE PROJECT. THE CONTRACTOR SHALL PROVIDE OWNER WITH FIRST RIGHTS TO ALL MATERIALS, INCLUDING DOORS, HARDWARE, WINDOWS, PLUMBING FIXTURES, ETC., BEFORE REMOVING FROM SITE.
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DEMOLITION KEYNOTES

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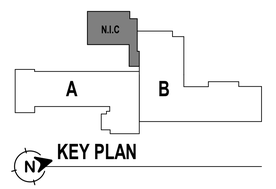
5 <varies>
6 REMOVE AND DISPOSE OF ROOF EQUIPMENT. SEE MECHANICAL DRAWINGS. PREPARE SURFACE FOR PATCHING.
7 REMOVE PORTION OF EXISTING METAL DECK ALONG BEAM OR JOIST LINE.TEMPORARY SUPPORT & PATCHING OF ROOF IS REQUIRED. PREPARE FOR INSTALLATION OF NEW DECKING. SEE STRUCTURAL & MECHANICAL DRAWINGS FOR EXTENT OF DEMOLITION AND EQUIPMENT.

KEY PLAN



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FAIRFIELD, CT 06824

REVISIONS

NO	DATE	DESCRIPTION

Designed:	CN
Drawn:	LA
Reviewed:	JJ
Project No.:	2200053
Date:	9/29/2023

Issued for:
95% CONSTRUCTION DOCUMENTS

Title:
OVERALL ROOF DEMOLITION PLAN

Sheet No.
AD103.1

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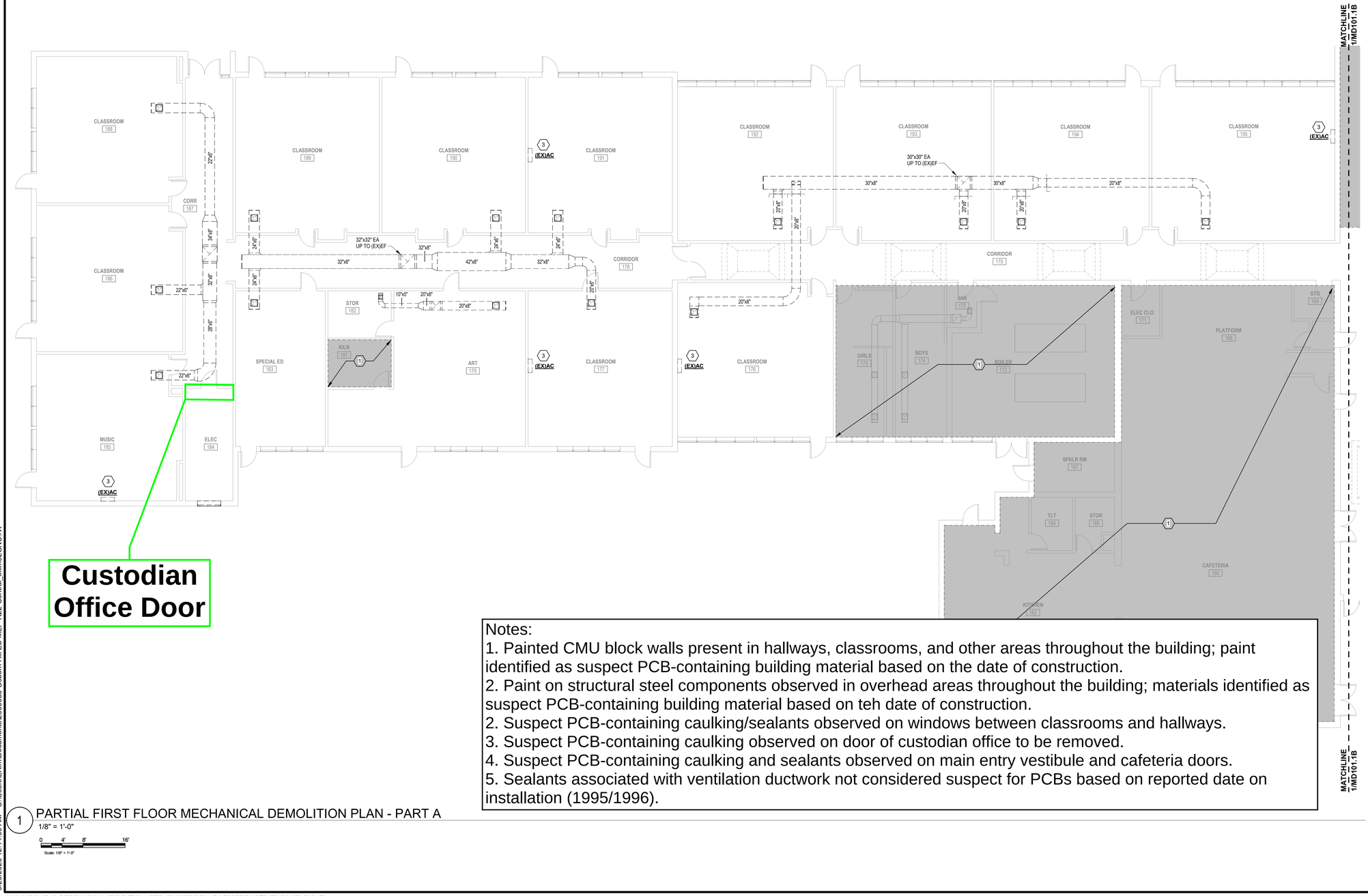
Appendix C - Summary of Observed Suspect PCB-Containing Building Materials



Notes:
1. Painted CMU block walls present in hallways, classrooms, and other areas throughout the building; paint identified as suspect PCB-containing building material based on the date of construction.
2. Paint on structural steel components observed in overhead areas throughout the building; materials identified as suspect PCB-containing building material based on teh date of construction.
2. Suspect PCB-containing caulking/sealants observed on windows between classrooms and hallways.
3. Suspect PCB-containing caulking observed on door of custodian office to be removed.
4. Suspect PCB-containing caulking and sealants observed on main entry vestibule and cafeteria doors.
5. Sealants associated with ventilation ductwork not considered suspect for PCBs based on reported date on installation (1995/1996).

1 PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART A
1/8" = 1'-0"
0 4' 8' 16'
Scale: 1/8" = 1'-0"

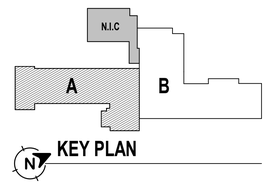
DEMOLITION PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS AS INDICATED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, LOW & LINE VOLTAGE WIRING, PIPING, DUCTWORK, GAS VENTS, SPECIALTIES & ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC... ALL WIRING SHALL BE TERMINATED BACK TO THEIR SOURCE AND ANY GAS BRANCH PIPING SHALL BE CAPPED BACK TO THE NEAREST MAIN. REFER TO WORK BY DIV. 22 & 26 FOR ANY ADDITIONAL INFORMATION.
2. ANY ROOF OPENINGS DUE TO THE REMOVAL OF ANY ROOFTOP EQUIPMENT OR RELATED APPURTENANCES THEREOF, SHALL BE STRUCTURALLY PATCHED AND THE ROOFING SEALED WEATHERTIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE THE APPROPRIATE REPAIRS TO MAINTAIN THE EXISTING ROOFING SYSTEM WARRANTEE. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO.
3. THE CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS, EXAMINE, AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
4. WHERE THE PROJECT REQUIRES PHASING, IT MAY BE NECESSARY FOR CORRESPONDING PHASED DEMOLITION WORK TO BE PERFORMED. CARE MUST BE TAKEN TO INSURE ACTIVE AREAS OUTSIDE THE CURRENT DEMOLITION PHASE REMAIN UNAFFECTED BY THIS WORK WITH NOINTERRUPTION OF SERVICE(S). INCLUDE ALL NECESSARY PREMIUM TIME TO PERFORM EACH PHASE OF DEMOLITION. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION THAT DEFINES THE PROJECT PHASING.
5. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
6. THE DEMOLITION WORK SHALL INCLUDE PROVIDING ALL MATERIALS AND LABOR FOR: EXTENSIONS, CONNECTIONS, CUTTING, PATCHING, REPAIRING, ELECTRICAL WORK, AND TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. NOTES AND GRAPHIC REPRESENTATION SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. EXTENT OF THE DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT.
7. PRIOR TO ANY WORK BEING PERFORMED, THIS CONTRACTOR SHALL COORDINATE WITH ALL APPROPRIATE TRADES AND BUILDING MANAGEMENT TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING.
8. COORDINATE WITH GENERAL CONTRACTOR FOR REMOVAL AND/OR ALTERATION OF CEILINGS. REFER TO ARCHITECTURAL PLANS.
9. THE CONTRACTOR SHALL DOCUMENT ALL EXISTING DUCTWORK, PIPING, FEEDERS, LOW VOLTAGE CONTROL WIRING, ETC..., WHICH PASS THROUGH THE DEMOLITION SPACE SERVICING EXISTING OCCUPIED ADJOINING AREAS. ANY EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH NEW WORK SHALL BE RELOCATED AND RECONNECTED USING LIKE MATERIALS AND METHODS OF THE EXISTING SERVICE AND SHALL CONFORM TO STANDARDS OF THIS CONTRACT. THIS WORK MAY NOT BE REPRESENTED IN THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL. COORDINATE WITH BUILDING MANAGEMENT PRIOR TO ANY SHUTDOWN OR DISRUPTION OF SERVICES THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
10. EQUIPMENT REQUIRED TO BE TEMPORARILY DISCONNECTED AND RELOCATED SHALL BE CAREFULLY REMOVED, STORED, CLEANED, REINSTALLED, RECONNECTED AND MADE OPERATIONAL.
11. ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING TENANTS AND SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.
12. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING DUCTWORK, PIPING, CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN, WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
13. PROTECT THE INTEGRITY OF ALL ITEMS (I.E. EQUIPMENT, DUCTWORK, PIPING, FINTUBE ENCLOSURE, INSULATION, ETC...) THAT ARE INDICATED TO REMAIN. MAINTAIN THE FULL FUNTIONALITY OF ALL ITEMS THAT ARE TO REMAIN. REPLACE AND/OR REPAIR ANY DAMAGE TO THE ABOVE MENTIONED ITEMS RESULTING FROM THEIR WORK. WHERE ITEMS THAT ARE INDICATED TO REMAIN ARE NOT IN PROPER WORKING ORDER PRIOR THE THE START OF THE MC'S WORK, REPORT ANY ISSUES IMMEDIATELY TO THE ENGINEER OF RECORD AND THE OWNER'S REPRESENTATIVE. UNLESS OTHERWISE NOTED, REMOVE CONDUIT AND WIRING TO POINTS OF ORIGIN WITHIN THE DESIGNATED AREA OF CONSTRUCTION FOR ALL EXISTING EQUIPMENT TO BE REMOVED.
14. ANY DEMOLITION MATERIALS, EQUIPMENT, ETC... REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION. THE ITEMS TO BE TURNED OVER AND LOCATION FOR THEIR STORAGE SHALL BE COORDINATED WITH THE OWNER'S REP. OTHERWISE, THE DEMOLITION MATERIALS SHALL BE REMOVED FROM THE BUILDING AFTER REGULAR BUSINESS HOURS AND SHALL BE TAKEN OFF-SITE NO LATER THAN THE START OF THE NEXT BUSINESS DAY. NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. THE CONSTRUCTION SITE SHALL BE SWEPT CLEAN EACH DAY AND NO DUST OR DEBRIS SHALL BE PERMITTED TO ENTER THE AREA DRAINS SERVING THE BUILDING.
15. ALL MATERIALS AND EQUIPMENT SLATED TO BE REMOVED AND IS NOT DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
16. WHERE PORTIONS OF ANY EXISTING SERVICE IS TO BE DEMOLISHED, THE CONTRACTOR SHALL PROVIDE A TEMPORARY CAP TO THE EXISTING SERVICE AND MAKE SAFE ANY UNPROTECTED, EXPOSED ELECTRICAL WIRING AT POINT OF DEMOLITION. CAPS SHALL BE AIRTIGHT OR WATERTIGHT DEPENDING ON TYPE OF SERVICE.
17. DEMOLISH EXISTING THERMOSTAT AND CONTROL WIRING WHERE NEW CONTROLS ARE INDICATED TO BE INSTALLED ON THE NEW WORK PLANS. PROVIDE COVER PLATE WHERE CONTROLS HAVE BEEN DEMOLISHED.

DEMOLITION PLAN KEY NOTES:

1. ALL EXISTING HVAC SYSTEMS AND APPURTENANCES THEREOF IN THIS AREA TO REMAIN, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, SUPPORTS, ETC. ANY SYSTEMS SERVING THESE AREAS SHALL BE MAINTAINED DURING DEMOLITION, UON.
2. EXISTING MECHANICAL EQUIPMENT / DUCTWORK / PIPING / CONTROLS TO REMAIN.
3. DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ALL APPURTENANCES THEREOF, INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, CURBS, SUPPORTS, ETC. REMOVE ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. ROOF/WALL OPENINGS DUE TO REMOVED COMPONENTS SHALL BE SEALED. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO. ANY RELATED WIRING, LOW & LINE, SHALL BE TERMINATED BACK TO THEIR SOURCE. REFER TO WORK BY DIV. 26 FOR ADDITIONAL INFO.

KEY PLAN



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REVISIONS

NO	DATE	DESCRIPTION

Designed:	RF/EK
Drawn:	EK
Reviewed:	JV/RF
Project No.:	2300053
Date:	09/29/2023

Issued for:
95 % CONSTRUCTION DOCUMENTS

Title:
PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART A

Sheet No.
MD101.1A

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Appendix C - Summary of Observed Suspect PCB-Containing Building Materials

Notes:
1. Painted CMU block walls present in hallways, classrooms, and other areas throughout the building; paint identified as suspect PCB-containing building material based on the date of construction.
2. Paint on structural steel components observed in overhead areas throughout the building; materials identified as suspect PCB-containing building material based on teh date of construction.
2. Suspect PCB-containing caulking/sealants observed on windows between classrooms and hallways.
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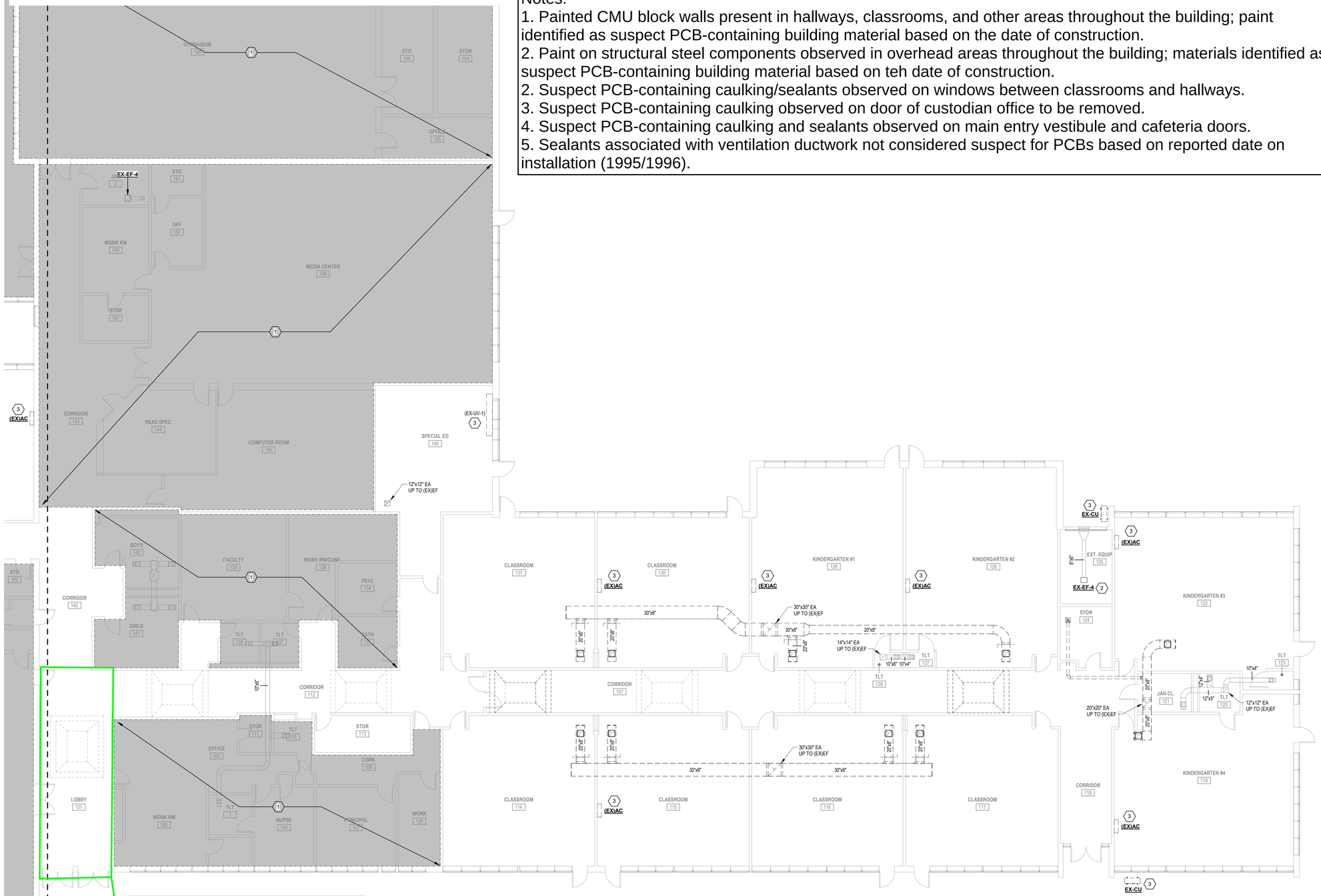


1 PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART B
1/8" = 1'-0"

0 4' 8' 16'
Scale: 1/8" = 1'-0"

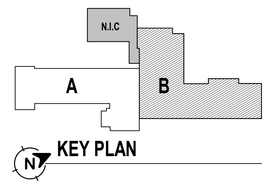
DEMOLITION PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS AS INDICATED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, LOW & LINE VOLTAGE WIRING, PIPING, DUCTWORK, GAS VENTS, SPECIALTIES & ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC... ALL WIRING SHALL BE TERMINATED BACK TO THEIR SOURCE AND ANY GAS BRANCH PIPING SHALL BE CAPPED BACK TO THE NEAREST MAIN. REFER TO WORK BY DIV. 22 & 26 FOR ANY ADDITIONAL INFORMATION.
2. ANY ROOF OPENINGS DUE TO THE REMOVAL OF ANY ROOFTOP EQUIPMENT OR RELATED APPURTENANCES THEREOF, SHALL BE STRUCTURALLY PATCHED AND THE ROOFING SEALED WEATHERTIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE THE APPROPRIATE REPAIRS TO MAINTAIN THE EXISTING ROOFING SYSTEM WARRANTEE. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO.
3. THE CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS, EXAMINE, AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
4. WHERE THE PROJECT REQUIRES PHASING, IT MAY BE NECESSARY FOR CORRESPONDING PHASED DEMOLITION WORK TO BE PERFORMED. CARE MUST BE TAKEN TO INSURE ACTIVE AREAS OUTSIDE THE CURRENT DEMOLITION PHASE REMAIN UNAFFECTED BY THIS WORK WITH NOINTERRUPTION OF SERVICE(S). INCLUDE ALL NECESSARY PREMIUM TIME TO PERFORM EACH PHASE OF DEMOLITION. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION THAT DEFINES THE PROJECT PHASING.
5. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
6. THE DEMOLITION WORK SHALL INCLUDE PROVIDING ALL MATERIALS AND LABOR FOR, EXTENSIONS, CONNECTIONS, CUTTING, PATCHING, REPAIRING, ELECTRICAL WORK, AND TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. NOTES AND GRAPHIC REPRESENTATION SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. EXTENT OF THE DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT.
7. PRIOR TO ANY WORK BEING PERFORMED, THIS CONTRACTOR SHALL COORDINATE WITH ALL APPROPRIATE TRADES AND BUILDING MANAGEMENT TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING.
8. COORDINATE WITH GENERAL CONTRACTOR FOR REMOVAL AND/OR ALTERATION OF CEILINGS. REFER TO ARCHITECTURAL PLANS.
9. THE CONTRACTOR SHALL DOCUMENT ALL EXISTING DUCTWORK, PIPING, FEEDERS, LOW VOLTAGE CONTROL WIRING, ETC ... WHICH PASS THROUGH THE DEMOLITION SPACE SERVICING EXISTING OCCUPIED ADJOINING AREAS. ANY EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH NEW WORK SHALL BE RELOCATED AND RECONNECTED USING LIKE MATERIALS AND METHODS OF THE EXISTING SERVICE AND SHALL CONFORM TO STANDARDS OF THIS CONTRACT. THIS WORK MAY NOT BE REPRESENTED IN THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL. COORDINATE WITH BUILDING MANAGEMENT PRIOR TO ANY SHUTDOWN OR DISRUPTION OF SERVICES THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
10. EQUIPMENT REQUIRED TO BE TEMPORARILY DISCONNECTED AND RELOCATED SHALL BE CAREFULLY REMOVED, STORED, CLEANED, REINSTALLED, RECONNECTED AND MADE OPERATIONAL.
11. ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING TENANTS AND SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.
12. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING DUCTWORK, PIPING, CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN, WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
13. PROTECT THE INTEGRITY OF ALL ITEMS (I.E. EQUIPMENT, DUCTWORK, PIPING, FINTUBE ENCLOSURE, INSULATION, ETC...) THAT ARE INDICATED TO REMAIN. MAINTAIN THE FULL FUNTIONALITY OF ALL ITEMS THAT ARE TO REMAIN. REPLACE AND/OR REPAIR ANY DAMAGE TO THE ABOVE MENTIONED ITEMS RESULTING FROM THEIR WORK. WHERE ITEMS THAT ARE INDICATED TO REMAIN ARE NOT IN PROPER WORKING ORDER PRIOR THE THE START OF THE MC'S WORK, REPORT ANY ISSUES IMMEDIATELY TO THE ENGINEER OF RECORD AND THE OWNER'S REPRESENTATIVE. UNLESS OTHERWISE NOTED, REMOVE CONDUIT AND WIRING TO POINTS OF ORIGIN WITHIN THE DESIGNATED AREA OF CONSTRUCTION FOR ALL EXISTING EQUIPMENT TO BE REMOVED.
14. ANY DEMOLITION MATERIALS, EQUIPMENT, ETC... REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION. THE ITEMS TO BE TURNED OVER AND LOCATION FOR THEIR STORAGE SHALL BE COORDINATED WITH THE OWNER'S REP. OTHERWISE, THE DEMOLITION MATERIALS SHALL BE REMOVED FROM THE BUILDING AFTER REGULAR BUSINESS HOURS AND SHALL BE TAKEN OFF-SITE NO LATER THAN THE START OF THE NEXT BUSINESS DAY. NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE SITE. THE CONSTRUCTION SITE SHALL BE SWEPT CLEAN EACH DAY AND NO DUST OR DEBRIS SHALL BE PERMITTED TO ENTER THE AREA DRAINS SERVING THE BUILDING.
15. ALL MATERIALS AND EQUIPMENT SLATED TO BE REMOVED AND IS NOT DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
16. WHERE PORTIONS OF ANY EXISTING SERVICE IS TO BE DEMOLISHED, THE CONTRACTOR SHALL PROVIDE A TEMPORARY CAP TO THE EXISTING SERVICE AND MAKE SAFE ANY UNPROTECTED, EXPOSED ELECTRICAL WIRING AT POINT OF DEMOLITION. CAPS SHALL BE AIRTIGHT OR WATERTIGHT DEPENDING ON TYPE OF SERVICE.
17. DEMOLISH EXISTING THERMOSTAT AND CONTROL WIRING WHERE NEW CONTROLS ARE INDICATED TO BE INSTALLED ON THE NEW WORK PLANS. PROVIDE COVER PLATE WHERE CONTROLS HAVE BEEN DEMOLISHED.

DEMOLITION PLAN KEY NOTES:

1. ALL EXISTING HVAC SYSTEMS AND APPURTENANCES THEREOF IN THIS AREA TO REMAIN, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, SUPPORTS, ETC. ANY SYSTEMS SERVING THESE AREAS SHALL BE MAINTAINED DURING DEMOLITION. UON.
2. EXISTING MECHANICAL EQUIPMENT / DUCTWORK / PIPING / CONTROLS TO REMAIN.
3. DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ALL APPURTENANCES THEREOF, INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, CURBS, SUPPORTS, ETC. REMOVE ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. ROOF/WALL OPENINGS DUE TO REMOVED COMPONENTS SHALL BE SEALED. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO. ANY RELATED WIRING, LOW & LINE, SHALL BE TERMINATED BACK TO THEIR SOURCE. REFER TO WORK BY DIV. 26 FOR ADDITIONAL INFO.

KEY PLAN



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Title:
PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART B

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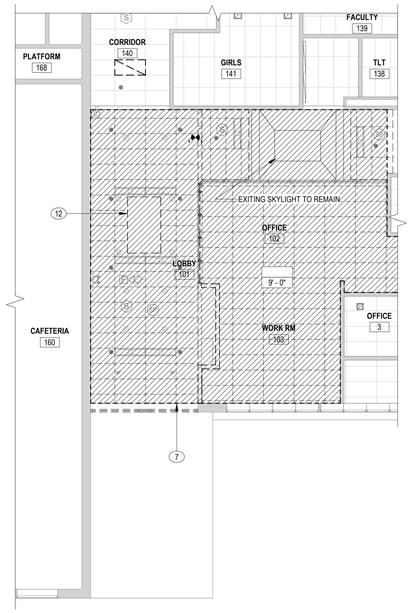
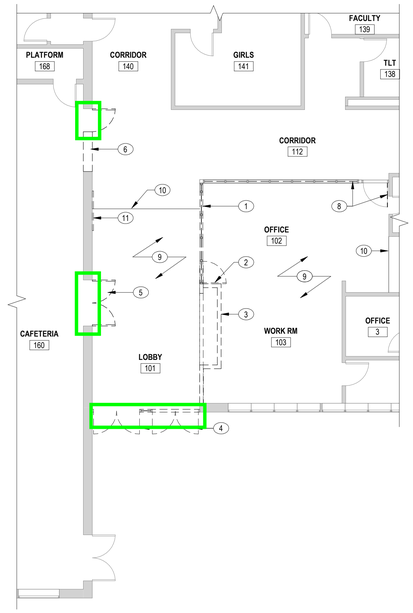
Appendix C - Summary of Observed Suspect PCB-Containing Building Materials

Notes:
1. Painted CMU block walls present in hallways, classrooms, and other areas throughout the building; paint identified as suspect PCB-containing building material based on the date of construction.
2. Paint on structural steel components observed in overhead areas throughout the building; materials identified as suspect PCB-containing building material based on teh date of construction.
2. Suspect PCB-containing caulking/sealants observed on windows between classrooms and hallways.
3. Suspect PCB-containing caulking observed on door of custodian office to be removed.
4. Suspect PCB-containing caulking and sealants observed on main entry vestibule and cafeteria doors.
5. Sealants associated with ventilation ductwork not considered suspect for PCBs based on reported date on installation (1995/1996).



2 VESTIBULE DEMOLITION RCP
1/8" = 1'-0"



1 VESTIBULE DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL, INCLUDING ALL COSTS FOR CARRYING AND DUMPING, OF ALL MATERIAL DEMOLISHED FROM THE PROJECT. THE CONTRACTOR SHALL PROVIDE OWNER WITH FIRST RIGHTS TO ALL MATERIALS, INCLUDING DOORS, HARDWARE, WINDOWS, PLUMBING FIXTURES, ETC., BEFORE REMOVING FROM SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING, TO REMAIN AREAS AND SURFACES AS NOTED AND/OR SHOWN. THIS INCLUDES ALL WORK NECESSARY TO READY SURFACES FOR NEW FINISH (N.I.C.) TO FOLLOW IN CONSTRUCTION PHASE. MATCH ALL ADJACENT MATERIALS WHERE PATCHING OCCURS.
3. ANY AND ALL PLUMBING FIXTURES/ACCESSORIES SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY RELATED PIPING WHICH IS BEING ABANDONED SHALL BE REMOVED AND CAPPED TO NEAREST TERMINATION POINT. ALL RELATED WORK REQUIRED IN ADJACENT WALLS, FLOORS BELOW, FLOORS ABOVE OR ON THE EFFECTED FLOOR ITSELF SHALL BE PATCHED AND PREPPED FOR NEW FINISH.
4. ALL WALLS SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY WALL OR SURFACE BEING WORKED ON SHALL BE PATCHED AND REPAIRED WITH A COMPLETE FINISH TO THE NEAREST CORNER, CHANGE OF PLANE OR OTHER JUNCTURE WHICH ALLOWS FOR A SMOOTH AND CLEAN TRANSITION FROM THE NEWLY FINISHED SURFACE TO THE SURROUNDING EXISTING SURFACES (THE INTENT IS TO AVOID THE APPEARANCE OF A PATCHED CONDITION).
5. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL AND OR OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT. PROTECT ALL ITEMS INTENDED FOR SALVAGE AND REUSE OR SCHEDULED TO REMAIN.
6. WHEN ROOF CONSTRUCTION, OR OTHER SUPPORTING AND / OR BRACING ELEMENTS ARE SCHEDULED FOR DEMOLITION, TEMPORARY STRUCTURAL SUPPORTS AND BRACING FOR THE ADJACENT CONSTRUCTION SHALL BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT STRUCTURES ARE IN PLACE AND ABLE TO SUPPORT THE IMPOSED LOADS.
7. PRESERVE AND PROTECT ALL FLOOR, WALL, AND CEILING FINISHES TO REMAIN WHERE POSSIBLE IN AREAS OF DEMOLITION. PATCH TO MATCH AS REQUIRED.
8. REPAIR ALL REMAINING WALLS, CEILINGS AND FLOOR SURFACES WHERE DEMOLITION OCCURS. THIS INCLUDES MEP AND OTHER NECESSARY WORK IN CEILINGS AND WALLS AT FLOOR BELOW. SEE MEP DRAWINGS FOR PROBABLE EXTENT.
9. REFER TO MEP PLANS AND OR SPECS FOR SCOPE OF ALL MEP DEMOLITION.

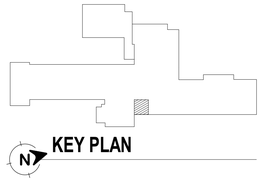
DEMOLITION LEGEND

- EXISTING WALL
- EXISTING WALL TO BE REMOVED
- EXISTING DOOR
- EXISTING DOOR TO BE REMOVED
- EXISTING CEILING TO REMAIN
- EXISTING CEILING TO BE REMOVED
- NOT IN ARCHITECTURAL SCOPE
- EXISTING WINDOW TO BE REMOVED
- EXTENT OF DEMOLITION

DEMOLITION KEYNOTES

1 REMOVE EXISTING WINDOW FRAME/GLAZING AND ALL COMPONENTS.
2 REMOVE EXISTING WOOD DOOR AND METAL FRAME.
3 REMOVE EXISTING WALL INCLUDING GLASS DISPLAY CASE COMPONENTS AND FRAMING ETC.
4 REMOVE EXISTING ALUMINUM DOOR AND FRAME.
5 REMOVE EXISTING HOLLOW METAL DOOR AND FRAME.
6 REMOVE EXISTING MASONRY WALL AS REQUIRED FOR NEW OPENING. OPENING SHALL BE SAW-TOOTHED INTO EXISTING MASONRY
7 REMOVE EXISTING ACOUSTICAL CEILING, GRID AND ASSOCIATED COMPONENTS. SEE MEP FOR OTHER DEMOLITION ITEMS.
8 CAREFULLY REMOVE AND DISPOSE OF WINDOW AND DOOR GLAZING. PREPARE FOR NEW FINISH AND INSTALLATION OF NEW GLAZING.
9 REMOVE AND DISPOSE OF FLOOR FINISH. PREPARE FOR INSTALLATION OF NEW FLOORING.
10 EXTENT OF FLOORING REMOVAL.
11 REMOVE AND DISPOSE OF MOSAIC.
12 REMOVE AND DISPOSE OF SKYLIGHT.

KEY PLAN



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Title:
DEMOLITION FLOOR PLAN & DEMOLITION RCP

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