ADDENDUM 2

ADDENDUM DATE: March 16, 2023

PROJECT: Trexler Middle School Renovation & Site Improvements
112 E. Foy Street
Richlands, NC 28574

OWNER: Onslow County Schools
200 Broadhurst Road
Jacksonville, NC 28540

ARCHITECT: Smith Sinnett Architecture, P.A.
4600 Lake Boone Trail, Suite 205
Raleigh, North Carolina 27607

BIDS DUE: **Tuesday, **March 21st, 2023 at 2:00 p.m.**
Maintenance Meeting Room #4
Onslow County Schools Offices
200 Broadhurst Road
Jacksonville, NC 28540

Please note, Project Addendums and Bidders List are available at www.smithsinnett.com under the 'Documents' icon on the navigation bar.

Reminder: A mandatory Pre-Bid meeting was held at the project site on February 28, 2023 at 1:00pm

This Addendum shall be included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

General

1. "APPENDIX A – ASBESTOS INSPECTION REPORT" is attached. This covers the existing building in the scope of our project identified in the document as "Building C". Please note it identifies hazardous materials no longer present in the building. **The only remaining ACM in the building is the "grey window glazing" compound.**

2. As noted in the paragraph 3.7 of the General Conditions, the contractor is responsible for securing and paying for all "permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work"

3. As noted in Article 16 Federal Contracting Requirements of the Supplementary General Conditions, Davis-Bacon requirements apply to this project based on the use of federal funds for a portion of the work. Contractor is responsible for verifying current wage rates as per federal requirements.

4. **Allowance No. A-10: Access Control, Intercom, Voice/Data, Cameras, and Security Systems** shall include all related equipment, field devices, and cabling. All raceways, sleeves, back boxes, and 120vac indicated as part of the contract documents per the electrical drawings are not included in this allowance and should be accounted for in the bid amount.

5. The following electrical and data revisions are to be incorporated into the contract documents and included in the bid as noted in the attached document with owner comments (Attachment: **Trexler Elec+Data – Owner Comments**). Please note only items not included in Allowance No. A-10 will affect contractor bid, including all raceways, sleeves, back boxes, and 120 vac.

a. Delete all intercom volume controls in each room
b. Add (4) additional CAT 6 cables for future exterior camera locations. These will be for future installation of cameras. Total cameras to be provided for project are (2) interior and (2) exterior cameras. (Locations to be confirmed post-bid.)
c. Revise all WAP locations from 1D to 2D
d. Add a 2D WAP location in Break Room #101A (Locations to be confirmed post-bid.)
e. Add (2) 2D outlets above the counter in Break Room #101A (Locations to be confirmed post-bid.)
f. Add a duplex and 2D outlet in Break Room #101A (Locations to be confirmed post-bid.)
g. Delete all 1D/HDMI TV outlets (84"), duplex power (84"), and 1HDMI outlets (low).
h. Each Intercom phone location to receive dual cabling (CAT 6). This cable can be pulled down into the intercom phone box and tagged "for future use". Please provide min 8" clearance from the adjacent light switch.
i. Do not demolish the existing 25 pair cable entering Storage #110.
j. Existing data rack not to be reused. Owner to provide a new 2-post rack to be installed in Storage #110.

6. No panel schedule is available for electrical panel MB for the owner-provided Modular Unit. Panel should be sized to connect to an existing panel in building if needed. All work as shown on sheet E6-05 is associated with Alternate 3-2.

7. The contractor is not required to remove and replace the entire interior concrete floor slab as implied by Foundation Plan Note #1 on sheet S1-01. The full scope of interior concrete floor slab removal and replacement shall be based the extents required to complete all new work shown or reasonably implied by the construction documents.

8. The contractor shall be responsible for stabilizing all areas denuded as part of this project. The contractor shall provide seed for all areas impacted that are not covered with pavement, concrete or structure. The provided seeding/vegetation shall meet all NCDEQ minimum requirements for coverage. The contractor should refer to permanent seedbed preparation notes and related seeding schedules provided on sheet C-912. Specification section 32 93 00 Plants is provided in case any required work results in the removal of existing planting that might need to be reinstalled.

9. Following is a list of clarifications with regard to base bid versus alternate scope of work:

a. A9-01: Concrete equipment pad for VRF-1 **(Alternate 2-1)**
b. A4-03: All casework in Break Room #101A **(Base Bid)**
c. A9-06
    i. All finishes, signage, markerboards, tackboards, and wall coverings **(Base Bid)**
    ii. Fire Extinguisher Cabinets and Electric Water Cooler **(Base Bid)**

d. A9-02:
   i. All ceiling and lighting removal and replacement **(Alternate 5)**
   ii. Demo Note #10 – Window removal and associated replacement **(Alternate 2-5)**
   iii. Furring (F1PB) related to transom infill and associated bulkheads **(Alternate 2-4)**

e. S1-01:
   i. Work on Exterior Walls in Details 1/S1-01, 2/S1-01, & 3/S1-01 **(Alternate 2-5)**
   ii. Work on Interior Walls in Details 4/S1-01 & 5/S1-01 **(Base Bid)**

f. S1-02:
   i. Work on Exterior Walls in Details 1/S1-02, 2/S1-02, & 3/S1-02 **(Alternate 2-5)**
   ii. Work on Interior Walls in Details 4/S1-02 & 5/S1-02 **(Base Bid)**

Drawings

10. REPLACE**: Sheet G0-03 Wall Type Legend**
Sheet revised to provide detail related to exterior wall type 'S6UC'.

11. REPLACE**: Sheet A5-01 Details**
Sheet revised to provide detail related to the resilient tackable wall covering as indicated in details 14/A5-01 and 15/A5-01.

12. REPLACE**: Sheet A9-01 Floor Plans (Alternate 2)**
Sheet revised to provide clarification related to exterior wall details and type.

13. REPLACE**: Sheet A9-02 Reflected Ceiling Plans (Alternate 5)**
Sheet revised to provide clarification related to exterior wall details and type.

14. CLARIFICATION**: Sheet A9-02 Reflected Ceiling Plans (Alternate 5)**
As noted in Demolition Note #7, ceiling demolition includes "existing ceiling tile, grid, hangars, and associated parts in its entirety, including secondary ceiling…". This is in reference to any existing ceilings, framing, and/or associated parts above the existing ceiling tile. All that shall remain after demolition is the existing structure and roof deck above.

15. REPLACE**: Sheet A9-03 Exterior Building Elevations (Alternate 2)**
Sheet revised to provide clarification on location of detail 9/A9-09.

16. REPLACE**: Sheet A9-05 Wall Sections (Alternate 2)**
Sheet revised to provide clarification on detail 1/A9-05.

17. REPLACE**: Sheet A9-06 Interior Elevations (Alternate 2)**
Sheet revised to provide clarification on scope of work associated with base bid versus alternates.

18. REPLACE**: Sheet A9-09 Details (Alternate 2)**
Sheet revised to provide additional information and clarification related to exterior wall details.

19. REPLACE**: Sheet A9-11 Door Schedule and Frame Elevations (Alternate 2)**

Sheet revised to provide clarification related to door frame details and Alternate 2-4 scope of work.

20. REPLACE**: Sheet A9-12 Window and Frame Elevations (Alternate 2)**
Sheet revised to provide clarification related to window details.

Specifications

21. REPLACE: **Section 00 01 10 Table of Contents**

22. ADD: **Section 09 72 60 Tackable Wallcovering**
Section provided for direction with regard to the resilient tackable wall covering as noted in details 14/A5-01, 15/A5-01, and 5/A9-06.

23. CLARIFICATION**: Section 32 12 16 Asphalt Paving**
There is no imprinted asphalt in the scope of this project.

Mechanical

24. See attached Addendum #2 by Progressive Design Collaborative, Ltd. (3 Pages)

Attachments

APPENDIX A – ASBESTOS INSPECTION REPORT (268 Pages)
Sheet G0-03 WALL TYPE LEGEND
Sheet A5-01 DETAILS
Sheet A9-01 FLOOR PLANS (ALTERNATE 2)
Sheet A9-02 REFLECTED CEILING PLANS (ALTERNATE 5)
Sheet A9-03 EXTERIOR BUILDING ELEVATIONS (ALTERNATE 2)
Sheet A9-05 WALL SECTIONS (ALTERNATE 2)
Sheet A9-06 INTERIOR ELEVATIONS (ALTERNATE 2)
Sheet A9-09 DETAILS (ALTERNATE 2)
Sheet A9-11 DOOR SCHEDULE AND FRAME ELEVATIONS (ALTERNATE 2)
Sheet A9-12 WINDOW AND FRAME ELEVATIONS (ALTERNATE 2)
Section 00 01 10 TABLE OF CONTENTS (4 Pages)
Section 09 72 60 TACKABLE WALLCOVERING (6 Pages)
ADDENDUM #2 –MECHANICAL, dated March 14TH, 2023 (3 Pages)
TREXLER ELEC+DATA – OWNER COMMENTS (3 Pages)

End of Addendum 2

APPENDIX A – ASBESTOS INSPECTION REPORT - 268 pages

Richlands Elementary School
Identified Asbestos Containing Materials
Asbestos Inspections, LLC Project # 2020-01-122
May 12, 2020

Building A

Material ID	Material	Location	Condition	Friability	Highest Analytical Result	Est. Quantity
011	Brown Speckle Sheet Floor and Tan Mastic Adhered to Wood Subfloor	1st Floor Classrooms	Good (No Damage)	Category I Nonfriable	25% Chrysotile	250 sf
012	Black Mastic Associated with 12"x12" Gray Floor Tile Adhered to Concrete in Lobby and Wood in 2nd Floor Mech Rooms	Auditorium Lobby and 2nd Floor Mech Rooms	Good (No Damage)	Category I Nonfriable	2% Chrysotile	1200 sf
014	Tan Speckle Sheet Floor and Tan Mastic Adhered to Wood Subfloor	2nd Floor Classrooms	Good (No Damage)	Category I Nonfriable	25% Chrysotile	800 sf
015	Beige Floor Tile and Black Mastic Underlying Stair Tread	Stairs / Landings	Good (No Damage)	Category I Nonfriable	3% Chrysotile	560 sf
018	Black Sink Coating	Classrooms	Good (No Damage)	Category II Nonfriable	3% Chrysotile	10 sinks
028	White Cementitious Ceiling Tile	Exterior Entry	Good (No Damage)	Category II Nonfriable	10% Chrysotile	30 sf
030	9"x9" Beige Floor Tile Adhered to Wood Subfloor	Storage Closet	Good (No Damage)	Category I Nonfriable	5% Chrysotile	31 sf

Due to the above identified vinyl flooring and/or mastic adhered to wood, these materials will require friable removal. Please know that the 1st floor lobby area is adhered to concrete. Please see our asbestos inspection report for a more in depth understanding of building conditions and asbestos locations.

Building B

Material ID	Material	Location	Condition	Friability	Highest Analytical Result	Est. Quantity
007	Green Floor Tile/Black Mastic Adhered to Concrete	2nd Floor Hallway	Significantly Damaged	Category I Nonfriable	5% Chrysotile	950 sf
009	Black Mastic Associated with Dark Blue Floor Tile Adhered to Concrete	Cafeteria	Significantly Damaged	Category I Nonfriable	3% Chrysotile	200 sf
010	Beige, Gray Floor Tile/Black Mastic Adhered to Concrete	Cafeteria	Significantly Damaged	Category I Nonfriable	5% Chrysotile	3500 sf

Due to the condition of the above identified floor tile, these materials are deemed friable as the tile is very brittle from being exposed to long term water intrusion. Please see our asbestos inspection report and project design for a more in depth understanding of building conditions and asbestos locations.

Building C

Material ID	Material	Location	Condition	Friability	Highest Analytical Result	Est. Quantity
001	12"x12" Beige Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Good (No Damage)	Category I Nonfriable	2% Chrysotile	1400 sf
004	12"x12" Beige Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Good (No Damage)	Category I Nonfriable	5% Chrysotile	480 sf
007	Brown Floor Tile and Black Mastic Under Sheet Floor Adhered to Concrete	Classroom	Good (No Damage)	Category I Nonfriable	5% Chrysotile	240 sf
008	Green Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Good (No Damage)	Category I Nonfriable	3% Chrysotile	3575 sf
010	Window Glaze	Exterior Windows	Significantly Damaged	Category II Nonfriable	2% Chrysotile	300 sf
015	Cementitious Panels	Eaves	Good (No Damage)	Category II Nonfriable	20% Chrysotile	1000 sf

The above identified floorings are in good condition, adhered to concrete, and can most likely be removed in a non-friable manner. Please see our asbestos inspection report for a more in depth understanding of building conditions and asbestos locations.

Building D

Material ID	Material	Location	Condition	Friability	Highest Analytical Result	Est. Quantity
002	9"x9" Green Floor Tile Under Carpet Adhered to Concrete	Select Classrooms	Good (No Damage)	Category I Nonfriable	10% Chrysotile	2540 sf
005	Caulk	Interior Window Caulk	Damaged	Category II Nonfriable	2% Chrysotile	50 sf
*007	Elbow	Classroom – Possibly in Other Areas	Good (No Damage)	Friable (RACM)	30% Chrysotile	1 Elbow
009	Black Floor Tile Under Carpet Adhered to Concrete	Classrooms	Good (No Damage)	Category I Nonfriable	5% Chrysotile	800 sf
010	Tan Floor Tile and Black Mastic Under Carpet Adhered to Concrete	Classrooms	Good (No Damage)	Category I Nonfriable	10% Chrysotile	1570 sf

Material ID	Material	Location	Condition	Friability	Highest Analytical Result	Est. Quantity
*020	White Wrap/Insulation	Corner of Classroom	Good (No Damage)	Friable (RACM)	20% Chrysotile	20 lf
022	Black Floor Mastic Under Carpet Tiles Adhered to Concrete	Office	Good (No Damage)	Category I Nonfriable	3% Chrysotile	180 sf
024	Caulk	Exterior Windows and Doors	Damaged	Category II Nonfriable	2% Chrysotile	75 sf
026	Cementitious Panels	Exterior Eaves Around Building	Good (No Damage)	Category II Nonfriable	15% Chrysotile	1100 sf

The above identified floorings are in good condition, adhered to concrete, and can most likely be removed in a non-friable manner. Please see our asbestos inspection report for a more in depth understanding of building conditions and asbestos locations.

*Please know that asbestos containing elbows or insulation/wrap may be present above the ceilings of the classrooms. There are two main pipe runs – the black wrap runs along the west side of the classrooms and the white paper wrap runs along the east side. The ceiling of the west side consists of two drop-down ceiling tile systems and the ceiling of the east side consists of a concrete solid material, making it nearly impossible to observe the pipe runs without demolishing the entire ceiling to expose the piping. Please see Figure 3 for approximate locations of pipe runs. Once the ceilings have been exposed, we should return to determine if there are any additional asbestos containing insulations associated with the piping system.

Building E

Material ID	Material	Location	Condition	Friability	Highest Analytical Result	Est. Quantity
004	Black, Yellow Mastic Associated with 12"x12" White Floor Tile Adhered to Concrete	Bathroom	Good (No Damage)	Category I Nonfriable	2% Chrysotile	50 sf

The above identified flooring is in good condition, adhered to concrete, and can most likely be removed in a non-friable manner. Please see our asbestos inspection report for a more in depth understanding of building conditions and asbestos locations.

Building F

No asbestos detected.

PE Building

No asbestos detected.

ASBESTOS INSPECTION REPORT
BUILDING A
112 East Foy Street
Richlands, North Carolina
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20-22, 2020
Report Prepared On – May 11, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20-22, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20-22, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 11, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 11, 2020

2.0 COVER LETTER

May 11, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
Building A
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed an Asbestos Assessment and Inspection for Building A located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20-22, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County Schools requested this assessment for Building A located at 112 East Foy Street, in Richlands, North Carolina. Based on information obtained from you, the structure is scheduled for demolition. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to demolition.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 30,940 square-feet building, constructed on a crawl-space foundation, with a TPO membrane over an EPDM membrane roof. The building is comprised of multiple classrooms, offices, auditorium, restrooms, mechanical rooms, and a boiler room. It appears that the boiler system has been replaced with a newer system. Additionally, we were informed that asbestos containing pipe insulation was removed from the crawl-space. We were able to view many locations of the crawl-space and were not able to see any evidence of possible asbestos containing pipe insulation. We also did not observe fallen pipe insulation on the ground surface.

The exterior of the building consists of a brick veneer with metal framed doors and windows. It appears that newer windows were installed in the building at some point. The interior consists of plaster walls, drywall walls, tongue-and-groove ceiling, suspended ceiling tile system, carpet, multiple vinyl floor coverings, ceramic tile in the original bathrooms, and vinyl or wood cove base.

Suspect materials sampled and analyzed during this inspection consists of multiple types of suspended ceiling tile, multiple types for vinyl floor coverings, vinyl cove base mastic, carpet mastic, plaster, drywall with associated joint compound, stage curtain, multiple types of pipe insulation, chalk board mastic, exterior cementitious ceiling tile, and roofing material.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos** >1% was detected in the following suspect materials collected and analyzed:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
011	Brown Speckle Sheet Floor and Tan Mastic Adhered to Wood Subfloor	1st Floor Classrooms	Greater Than 1% Asbestos by Lab (ACM)	25% Chrysotile	250 sf
012	Black Mastic Associated with 12"x12" Gray Floor Tile Adhered to Concrete in Lobby and Wood in 2nd Floor Mech Rooms	Auditorium Lobby and 2nd Floor Mech Rooms	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	1200 sf
014	Tan Speckle Sheet Floor and Tan Mastic Adhered to Wood Subfloor	2nd Floor Classrooms	Greater Than 1% Asbestos by Lab (ACM)	25% Chrysotile	800 sf
015	Beige Floor Tile and Black Mastic Underlying Stair Tread	Stairs / Landings	Greater Than 1% Asbestos by Lab (ACM)	3% Chrysotile	560 sf
018	Black Sink Coating	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	3% Chrysotile	10 sinks
028	White Cementitious Ceiling Tile	Exterior Entry	Greater Than 1% Asbestos by Lab (ACM)	10% Chrysotile	30 sf
030	9"x9" Beige Floor Tile Adhered to Wood Subfloor	Storage Closet	Greater Than 1% Asbestos by Lab (ACM)	5% Chrysotile	31 sf

Due to the above identified vinyl flooring and/or mastic adhered to wood, these materials will require friable removal. Please know that the 1st floor lobby area is adhered to concrete.

The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. Due to the friable removal of select floor coverings, asbestos air monitoring will be required during friable abatement activities only.

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this

report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	Fine/Directional Ceiling Tile	Ceiling	9500 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
002	12"x12" White Floor Tile/Mastic	Office	300 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
003	Drywall	Office	2600 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
004	Cove Base Mastic	Office	350 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
005	Black Tarpaper	Floor	412 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
006	Tan Carpet Mastic	Throughout	18,600 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
007	Plaster	Walls Throughout	40,500 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
008	Drywall	Walls Throughout	24,600 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
009	Gray Sheet Floor/Mastic	Office Bath	150 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
010	White,Gray Floor Tile/Mastic	1st Floor	420 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
011	Brown Speckle Sheet Floor/Mastic	Classroom	250 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
012	12"x12" Gray Floor Tile/Mastic	Lobby Area and 2nd Floor Mech Rooms	1200 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
013	Stage Curtain	Auditorium	1500 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
014	Tan Speckle Sheet Floor	2nd Floor	800 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
015	Beige Floor Tile/Mastic	Stairs	560 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
016	Floor Mastic	Auditorium	4800 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
017	Tan Ceramic Tile Mastic	Bathrooms	300 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
018	Black Sink Coating	Classrooms	10 Sinks	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
019	Cloth	Pipe Wrap	75 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
020	Tan Mastic	Cove Base	100 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
021	White Paper	Pipe Wrap	220 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
022	Drywall	Ceiling Tile	6000 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
023	Fibrous	Ceiling Tile	1100 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
024	Coarse Fissured Ceiling Tile	2nd Floor	10,600 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
025	Dark Brown Mastic	Chalk Board	2400 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
026	TSI	Pipe Wrap Boiler Room and Crawl Space	150 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
027	Plaster	Boiler Room	720 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
028	White Cementitious Ceiling Tile	Exterior Entry	30 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
029	Membrane	Roof	15,568 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
030	9"x9" Beige Floor Tile	1st Floor Closet	31 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	Gray Fine/Directional Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
001B	Gray Fine/Directional Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
001C	Gray Fine/Directional Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
002A	12"x12" White Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Yellow Mastic	ND	N/A	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
002B	12"x12" White Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Yellow Mastic	ND	N/A	Tested Negative by Lab	PLM
002C	12"x12" White Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Yellow Mastic	ND	N/A	Tested Negative by Lab	PLM
003A	White, Tan Drywall / Joint Compound	ND	N/A	Tested Negative by Lab	PLM
003B	White, Tan Drywall / Joint Compound	ND	N/A	Tested Negative by Lab	PLM
003C	White, Tan Drywall / Joint Compound	ND	N/A	Tested Negative by Lab	PLM
004A	Tan Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
004B	Tan Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
004C	Tan Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
005A	Black Tarpaper	ND	N/A	Tested Negative by Lab	PLM
005B	Black Tarpaper	ND	N/A	Tested Negative by Lab	PLM
005C	Black Tarpaper	ND	N/A	Tested Negative by Lab	PLM
006A	Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
006B	Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
006C	Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
007A	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007B	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007C	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007D	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007E	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007F	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007G	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
007H	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
008A	White Drywall	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
008A	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
008B	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
008C	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
008D	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
008E	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
008F	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
008G	White, Tan Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
009A	Gray Sheet Floor	ND	N/A	Tested Negative by Lab	PLM
	Yellow Mastic	ND	N/A	Tested Negative by Lab	PLM
009B	Gray Sheet Floor	ND	N/A	Tested Negative by Lab	PLM
	Yellow Mastic	ND	N/A	Tested Negative by Lab	PLM
009C	Gray Sheet Floor	ND	N/A	Tested Negative by Lab	PLM
	Yellow Mastic	ND	N/A	Tested Negative by Lab	PLM
010A	White, Grey Sheet Floor	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
010B	White, Grey Sheet Floor	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
010C	White, Grey Sheet Floor	ND	N/A	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
011A	**Brown Speckle Sheet Floor**	**25%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Tan Mastic	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
011B	**Brown Speckle Sheet Floor**	**--**	**--**	**--**	**--**
	Tan Mastic	**--**	**--**	**--**	**--**
011C	**Brown Speckle Sheet Floor**	**--**	**--**	**--**	**--**
	Tan Mastic	**--**	**--**	**--**	**--**
012A	12"x12" Gray Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Black Mastic	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
012B	12"x12" Gray Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Black Mastic	**--**	**--**	**--**	**--**
012C	12"x12" Gray Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Black Mastic	**--**	**--**	**--**	**--**
013A	Black Stage Curtain	ND	N/A	Tested Negative by Lab	PLM
013B	Black Stage Curtain	ND	N/A	Tested Negative by Lab	PLM
013C	Black Stage Curtain	ND	N/A	Tested Negative by Lab	PLM
014A	**Tan Speckle Sheet Floor**	**25%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Tan Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
014B	**Tan Speckle Sheet Floor**	**--**	**--**	**--**	**--**
	Tan Mastic	**--**	**--**	**--**	**--**
014C	**Tan Speckle Sheet Floor**	**--**	**--**	**--**	**--**
	Tan Mastic	**--**	**--**	**--**	**--**
015A	**Beige Floor Tile**	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
015B	**Beige Floor Tile**	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
015C	**Beige Floor Tile**	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
016A	Green Floor Mastic	ND	N/A	Tested Negative by Lab	PLM
016B	Green Floor Mastic	ND	N/A	Tested Negative by Lab	PLM
016C	Green Floor Mastic	ND	N/A	Tested Negative by Lab	PLM
017A	Tan Ceramic Wall Tile Mastic	ND	N/A	Tested Negative by Lab	PLM
017B	Tan Ceramic Wall Tile Mastic	ND	N/A	Tested Negative by Lab	PLM
017C	Tan Ceramic Wall Tile Mastic	ND	N/A	Tested Negative by Lab	PLM
018A	**Black Sink Coating**	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
018B	**Black Sink Coating**	**--**	**--**	**--**	**--**
018C	**Black Sink Coating**	**--**	**--**	**--**	**--**
019A	White Cloth TSI Wrap	ND	N/A	Tested Negative by Lab	PLM
019B	White Cloth TSI Wrap	ND	N/A	Tested Negative by Lab	PLM
019C	White Cloth TSI Wrap	ND	N/A	Tested Negative by Lab	PLM
020A	Tan Covebase Mastic	ND	N/A	Tested Negative by Lab	PLM
020B	Tan Covebase Mastic	ND	N/A	Tested Negative by Lab	PLM
020C	Tan Covebase Mastic	ND	N/A	Tested Negative by Lab	PLM
021A	White, Tan Paper TSI Wrap	ND	N/A	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
021B	White, Tan Paper TSI Wrap	ND	N/A	Tested Negative by Lab	PLM
021C	White, Tan Paper TSI Wrap	ND	N/A	Tested Negative by Lab	PLM
022A	White, Tan Drywall	ND	N/A	Tested Negative by Lab	PLM
022B	White, Tan Drywall	ND	N/A	Tested Negative by Lab	PLM
022C	White, Tan Drywall	ND	N/A	Tested Negative by Lab	PLM
023A	White, Tan Fibrous Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
023B	White, Tan Fibrous Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
023C	White, Tan Fibrous Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
024A	Grey Coarse Fissured Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
024B	Grey Coarse Fissured Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
024C	Grey Coarse Fissured Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
025A	Dark Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
025B	Dark Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
025C	Dark Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
026A	Tan TSI Pipe Wrap	ND	N/A	Tested Negative by Lab	PLM
026B	Tan TSI Pipe Wrap	ND	N/A	Tested Negative by Lab	PLM
026C	Tan TSI Pipe Wrap	ND	N/A	Tested Negative by Lab	PLM
027A	Beige Plaster Kim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
027B	Beige Plaster Kim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
027C	Beige Plaster Kim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
028A	**White, Grey Exterior Cementitious Ceiling Tile**	**10%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
028B	**White, Grey Exterior Cementitious Ceiling Tile**	--	--	--	--
028C	**White, Grey Exterior Cementitious Ceiling Tile**	--	--	--	--
029A	White Membrane	ND	N/A	Tested Negative by Lab	PLM
	Black Membrane	ND	N/A	Tested Negative by Lab	PLM
	Black Gypsum	ND	N/A	Tested Negative by Lab	PLM
029B	White Membrane	ND	N/A	Tested Negative by Lab	PLM
	Black Membrane	ND	N/A	Tested Negative by Lab	PLM
	Black Gypsum	ND	N/A	Tested Negative by Lab	PLM
029C	White Membrane	ND	N/A	Tested Negative by Lab	PLM
	Black Membrane	ND	N/A	Tested Negative by Lab	PLM
	Black Gypsum	ND	N/A	Tested Negative by Lab	PLM
030A	**9"x9" Beige Floor Tile**	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**ND**	**N/A**	**Tested Negative by Lab**	**PLM**
030B	**9"x9" Beige Floor Tile**	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
030C	**9"x9" Beige Floor Tile**	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan, sample location plan, and asbestos location plans are identified as Figures 1 thru 3 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos** >1 % was detected in the following suspect materials sampled and analyzed for Building A located at 112 East Foy Street, in Richlands, North Carolina:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
011	Brown Speckle Sheet Floor and Tan Mastic Adhered to Wood Subfloor	1st Floor Classrooms	Greater Than 1% Asbestos by Lab (ACM)	25% Chrysotile	250 sf
012	Black Mastic Associated with 12"x12" Gray Floor Tile Adhered to Concrete in Lobby and Wood in 2nd Floor Mech Rooms	Auditorium Lobby and 2nd Floor Mech Rooms	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	1200 sf
014	Tan Speckle Sheet Floor and Tan Mastic Adhered to Wood Subfloor	2nd Floor Classrooms	Greater Than 1% Asbestos by Lab (ACM)	25% Chrysotile	800 sf
015	Beige Floor Tile and Black Mastic Underlying Stair Tread	Stairs / Landings	Greater Than 1% Asbestos by Lab (ACM)	3% Chrysotile	560 sf
018	Black Sink Coating	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	3% Chrysotile	10 sinks
028	White Cementitious Ceiling Tile	Exterior Entry	Greater Than 1% Asbestos by Lab (ACM)	10% Chrysotile	30 sf
030	9"x9" Beige Floor Tile Adhered to Wood Subfloor	Storage Closet	Greater Than 1% Asbestos by Lab (ACM)	5% Chrysotile	31 sf

Due to the above identified vinyl flooring and/or mastic adhered to wood, these materials will require friable removal. Please know that the 1st floor lobby area is adhered to concrete.

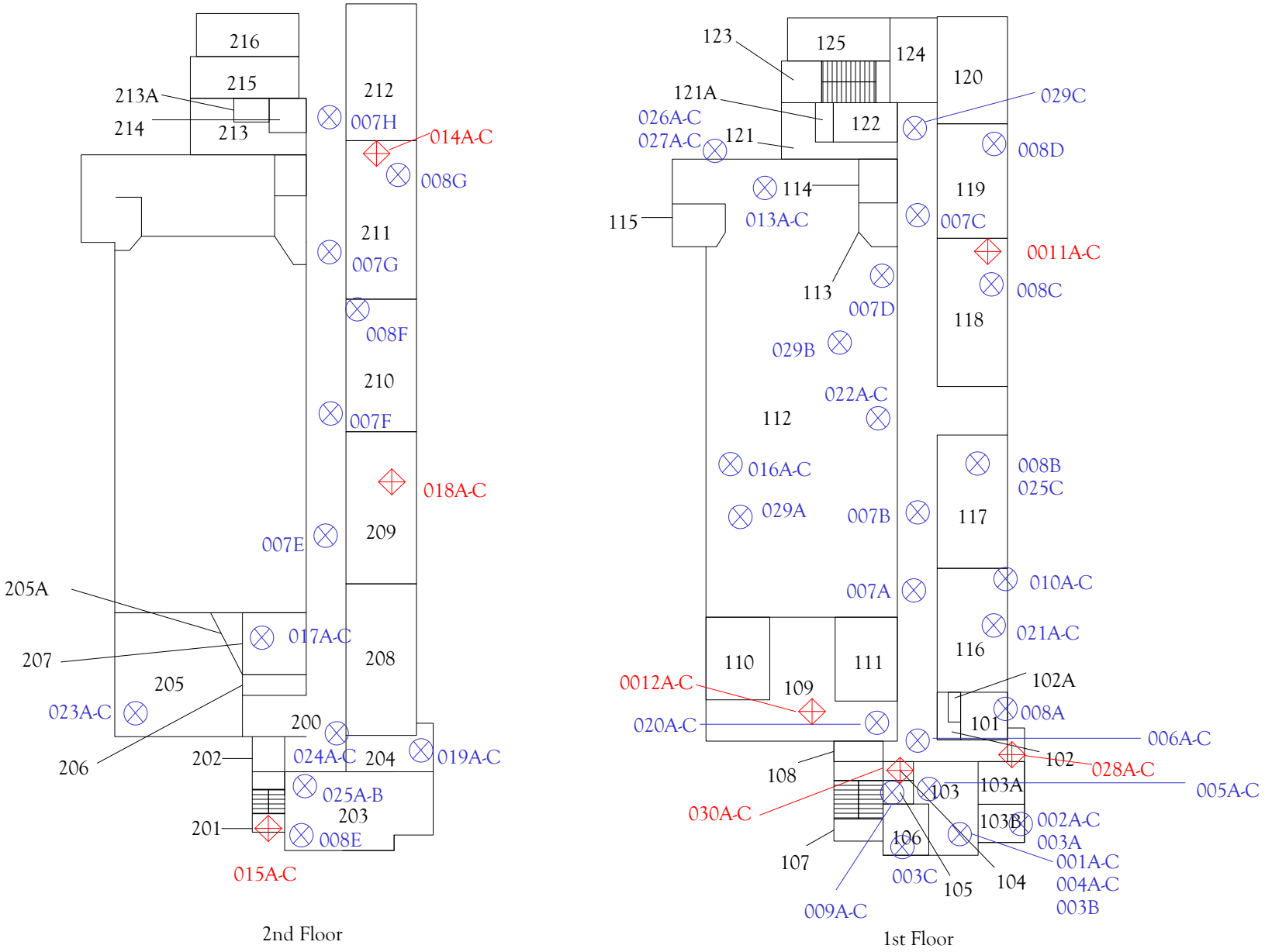
The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. Due to the friable removal of select floor coverings, asbestos air monitoring will be required during friable abatement activities only.

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan and Sample Location Plan

	Site Location Plan Richlands Elementary School Building A Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**

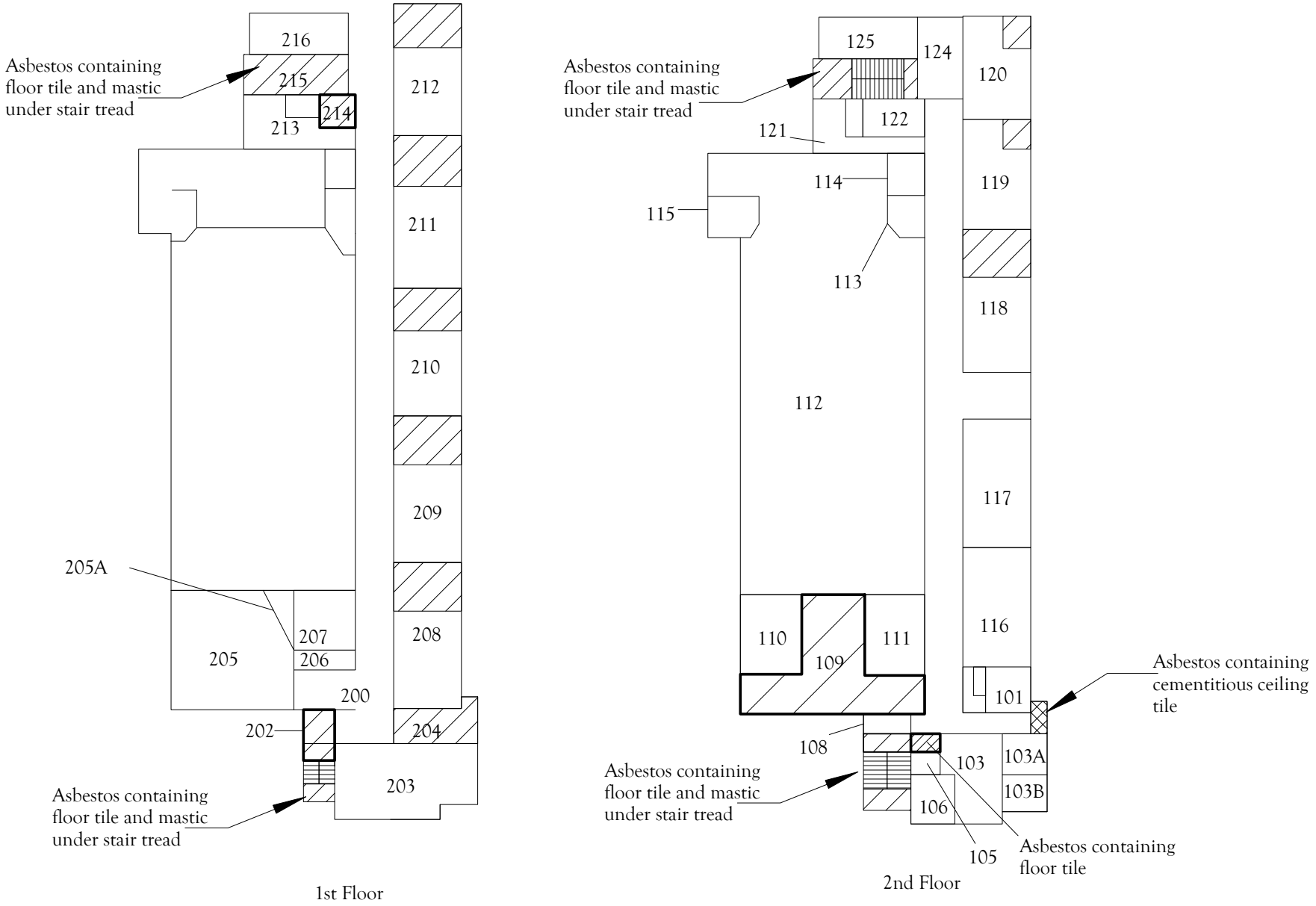


LEGEND

⊗ Sample Location

◇ Asbestos Containing Sample Location

	Asbestos Sample Location Plan Richlands Elementary School Building A Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**



LEGEND

Asbestos containing flooring and/or mastic - Approx. 2841 sf total

Asbestos containing cementitious ceiling tile - Approx. 30 sf

Notes: Asbestos coating on bottom of sinks in classrooms was identified to contain asbestos. Approx. 10 sinks

	Asbestos Sample Location Plan Richlands Elementary School Building A Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 3**

APPENDIX 2
Photographs

Site Photos

Stairs, Building A

Bathrooms, Building A

Bathrooms, Building A

Chalk Board, Building A

Chalk Board, Building A

Roof, Building A

Roof, Building A TPO Membrane

Roof, Building A EPDM Membrane

Roof, Building A TPO Membrane

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Interior, Building A

Classroom, Building A

Classroom, Building A

Classroom, Building A

Classroom, Building A

Classroom, Building A

Classroom, Building A

Classroom, Building A

Classroom, Building A

Auditorium , Building A

Auditorium , Building A

Boiler Room, Building A

Boiler Room, Building A

Boiler Room, Building A

Crawl Space, Building A

Crawl Space, Building A

Crawl Space, Building A

Crawl Space, Building A

Crawl Space, Building A

APPENDIX 3
Laboratory Results

eurofins | CEI

May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary Bldg A
CEI LAB CODE: A205163

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary Bldg A

LAB CODE: A205163

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 89

SAMPLES >1% ASBESTOS: 10

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg A **LAB CODE:** A205163

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A83704	Gray	Fine/ Directional Fissured Ceiling Tile	None Detected
001B		A83705	Gray	Fine/ Directional Fissured Ceiling Tile	None Detected
001C		A83706	Gray	Fine/ Directional Fissured Ceiling Tile	None Detected
002A		A83707A	White	Floor Tile	None Detected
		A83707B	Yellow	Mastic	None Detected
002B		A83708A	White	Floor Tile	None Detected
		A83708B	Yellow	Mastic	None Detected
002C		A83709A	White	Floor Tile	None Detected
		A83709B	Yellow	Mastic	None Detected
003A		A83710	White,Tan	Drywall/Joint Compound	None Detected
003B		A83711	White,Tan	Drywall/Joint Compound	None Detected
003C		A83712	White,Tan	Drywall/Joint Compound	None Detected
004A		A83713	Tan	Covebase Mastic	None Detected
004B		A83714	Tan	Covebase Mastic	None Detected
004C		A83715	Tan	Covebase Mastic	None Detected
005A		A83716	Black	Tarpaper	None Detected
005B		A83717	Black	Tarpaper	None Detected
005C		A83718	Black	Tarpaper	None Detected
006A		A83719	Tan	Carpet Mastic	None Detected
006B		A83720	Tan	Carpet Mastic	None Detected
006C		A83721	Tan	Carpet Mastic	None Detected
007A	Layer 1	A83722	White	Plaster Skim Coat	None Detected
	Layer 2	A83722	Gray	Plaster Base Coat	None Detected
007B	Layer 1	A83723	White	Plaster Skim Coat	None Detected
	Layer 2	A83723	Gray	Plaster Base Coat	None Detected
007C	Layer 1	A83724	White	Plaster Skim Coat	None Detected
	Layer 2	A83724	Gray	Plaster Base Coat	None Detected
007D	Layer 1	A83725	Off-white	Surface Material	None Detected
	Layer 2	A83725	White	Plaster Skim Coat	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg A **LAB CODE:** A205163

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 3	A83725	Gray	Plaster Base Coat	None Detected
007E	Layer 1	A83726	White	Plaster Skim Coat	None Detected
	Layer 2	A83726	Gray	Plaster Base Coat	None Detected
007F	Layer 1	A83727	White	Plaster Skim Coat	None Detected
	Layer 2	A83727	Gray	Plaster Base Coat	None Detected
007G	Layer 1	A83728	White	Plaster Skim Coat	None Detected
	Layer 2	A83728	Gray	Plaster Base Coat	None Detected
007H	Layer 1	A83729	White	Plaster Skim Coat	None Detected
008A	Layer 1	A83729	White	Drywall	None Detected
	Layer 2	A83729	Gray	Plaster Base Coat	None Detected
008A		A83730	White,Tan	Drywall/Joint Compound	None Detected
008B		A83731	White,Tan	Drywall/Joint Compound	None Detected
008C		A83732	White,Tan	Drywall/Joint Compound	None Detected
008D		A83733	White,Tan	Drywall/Joint Compound	None Detected
008E		A83734	White,Tan	Drywall/Joint Compound	None Detected
008F		A83735	White,Tan	Drywall/Joint Compound	None Detected
008G		A83736	White,Tan	Drywall/Joint Compound	None Detected
009A		A83737A	Gray	Sheet Floor	None Detected
		A83737B	Yellow	Mastic	None Detected
009B		A83738A	Gray	Sheet Floor	None Detected
		A83738B	Yellow	Mastic	None Detected
009C		A83739A	Gray	Sheet Floor	None Detected
		A83739B	Yellow	Mastic	None Detected
010A		A83740A	White,Gray	Sheet Floor	None Detected
		A83740B	Tan	Mastic	None Detected
010B		A83741A	White,Gray	Sheet Floor	None Detected
		A83741B	Tan	Mastic	None Detected
010C		A83742A	White,Gray	Sheet Floor	None Detected
		A83742B	Tan	Mastic	None Detected
011A		A83743A	Tan	Sheet Floor	Chrysotile 25%
		A83743B	Tan	Mastic	Chrysotile 2%

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg A **LAB CODE:** A205163

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
011B		A83744		Sample Not Analyzed per COC	
011C		A83745		Sample Not Analyzed per COC	
012A		A83746A	Gray	Floor Tile	None Detected
		A83746B	Black	Mastic	Chrysotile 3%
012B		A83747A	Gray	Floor Tile	None Detected
		A83747B		Sample Not Analyzed per COC	
012C		A83748A	Gray	Floor Tile	None Detected
		A83748B		Sample Not Analyzed per COC	
013A		A83749	Black	Stage Curtain	None Detected
013B		A83750	Black	Stage Curtain	None Detected
013C		A83751	Black	Stage Curtain	None Detected
014A		A83752A	Cream	Sheet Floor	Chrysotile 25%
		A83752B	Tan	Mastic	Chrysotile 2%
014B		A83753		Sample Not Analyzed per COC	
014C		A83754		Sample Not Analyzed per COC	
015A		A83755A	Beige	Floor Tile	Chrysotile 3%
		A83755B	Black	Mastic	Chrysotile 5%
015B		A83756		Sample Not Analyzed per COC	
015C		A83757		Sample Not Analyzed per COC	
016A		A83758	Green	Floor Mastic	None Detected
016B		A83759	Green	Floor Mastic	None Detected
016C		A83760	Green	Floor Mastic	None Detected
017A		A83761	Tan	Ceramic Wall Tile Mastic	None Detected
017B		A83762	Tan	Ceramic Wall Tile Mastic	None Detected
017C		A83763	Tan	Ceramic Wall Tile Mastic	None Detected
018A		A83764	Black	Sink Coating	Chrysotile 3%
018B		A83765		Sample Not Analyzed per COC	
018C		A83766		Sample Not Analyzed per COC	
019A		A83767	White	Cloth Tsi Wrap	None Detected
019B		A83768	White	Cloth Tsi Wrap	None Detected
019C		A83769	White	Cloth Tsi Wrap	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg A **LAB CODE:** A205163

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
020A		A83770	Tan	Covebase Mastic	None Detected
020B		A83771	Tan	Covebase Mastic	None Detected
020C		A83772	Tan	Covebase Mastic	None Detected
021A		A83773	Tan	Paper Tsi Wrap	None Detected
021B		A83774	Tan	Paper Tsi Wrap	None Detected
021C		A83775	Tan	Paper Tsi Wrap	None Detected
022A		A83776	White,Tan	Drywall	None Detected
022B		A83777	White,Tan	Drywall	None Detected
022C		A83778	White,Tan	Drywall	None Detected
023A		A83779	Brown,White	Ceiling Tile	None Detected
023B		A83780	Brown,White	Ceiling Tile	None Detected
023C		A83781	Brown,White	Ceiling Tile	None Detected
024A		A83782	Gray	Ceiling Tile	None Detected
024B		A83783	Gray	Ceiling Tile	None Detected
024C		A83784	Gray	Ceiling Tile	None Detected
025A		A83785	Tan	Chalk Board Mastic	None Detected
025B		A83786	Tan	Chalk Board Mastic	None Detected
025C		A83787	Tan	Chalk Board Mastic	None Detected
026A		A83788	Tan	Tsi Pipe Wrap	None Detected
026B		A83789	Tan	Tsi Pipe Wrap	None Detected
026C		A83790	Tan	Tsi Pipe Wrap	None Detected
027A	Layer 1	A83791	Beige	Plaster Skim Coat	None Detected
	Layer 2	A83791	Gray	Plaster Base Coat	None Detected
027B	Layer 1	A83792	Beige	Plaster Skim Coat	None Detected
	Layer 2	A83792	Gray	Plaster Base Coat	None Detected
027C	Layer 1	A83793	Beige	Plaster Skim Coat	None Detected
	Layer 2	A83793	Gray	Plaster Base Coat	None Detected
028A		A83794	Gray	Cementitious Exterior Ceiling Tile	**Chrysotile 10%**
028B		A83795		Sample Not Analyzed per COC	
028C		A83796		Sample Not Analyzed per COC	

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg A **LAB CODE:** A205163

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
029A	Layer 1	A83797	White	Membrane	None Detected
	Layer 2	A83797	Black	Membrane	None Detected
	Layer 3	A83797	White	Gypsum	None Detected
029B	Layer 1	A83798	White	Membrane	None Detected
	Layer 2	A83798	Black	Membrane	None Detected
	Layer 3	A83798	White	Gypsum	None Detected
029C	Layer 1	A83799	White	Membrane	None Detected
	Layer 2	A83799	Black	Membrane	None Detected
	Layer 3	A83799	Black	Gypsum	None Detected
030A		A83800A	Tan	Floor Tile	Chrysotile 5%
		A83800B	Black	Mastic	None Detected
030B		A83801A		Sample Not Analyzed per COC	
		A83801B	Black	Mastic	None Detected
030C		A83802A		Sample Not Analyzed per COC	
		A83802B	Black	Mastic	None Detected

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205163
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
001A A83704	Fine/ Directional Fissured Ceiling Tile	Heterogeneous Gray Fibrous Loosely Bound	35% 33%	Cellulose Fiberglass	30% 2%	Perlite Paint	None Detected
001B A83705	Fine/ Directional Fissured Ceiling Tile	Heterogeneous Gray Fibrous Loosely Bound	35% 33%	Cellulose Fiberglass	30% 2%	Perlite Paint	None Detected
001C A83706	Fine/ Directional Fissured Ceiling Tile	Heterogeneous Gray Fibrous Loosely Bound	35% 33%	Cellulose Fiberglass	30% 2%	Perlite Paint	None Detected
002A A83707A	Floor Tile	Heterogeneous White Fibrous Tightly Bound			65% 35%	Vinyl Calc Carb	None Detected
A83707B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
002B A83708A	Floor Tile	Heterogeneous White Fibrous Tightly Bound			65% 35%	Vinyl Calc Carb	None Detected
A83708B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
002C A83709A	Floor Tile	Heterogeneous White Fibrous Tightly Bound			65% 35%	Vinyl Calc Carb	None Detected
A83709B	Mastic	Heterogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
003A A83710	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
003B A83711	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
003C A83712	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
004A A83713	Covebase Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
004B A83714	Covebase Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
004C A83715	Covebase Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
005A A83716	Tarpaper	Heterogeneous Black Fibrous Bound	75%	Cellulose	25%	Tar	None Detected
005B A83717	Tarpaper	Heterogeneous Black Fibrous Bound	75%	Cellulose	25%	Tar	None Detected
005C A83718	Tarpaper	Heterogeneous Black Fibrous Bound	75%	Cellulose	25%	Tar	None Detected
006A A83719	Carpet Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
006B A83720	Carpet Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
006C A83721	Carpet Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
007A	Plaster Skim Coat	Heterogeneous			3%	Paint	None Detected
Layer 1		White			65%	Silicates	
A83722		Fibrous			32%	Calc Carb	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous	<1%	Cellulose	85%	Silicates	None Detected
A83722		Gray			15%	Binder	
		Fibrous					
		Bound					
007B	Plaster Skim Coat	Heterogeneous			3%	Paint	None Detected
Layer 1		White			65%	Silicates	
A83723		Fibrous			32%	Calc Carb	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous	<1%	Cellulose	85%	Silicates	None Detected
A83723		Gray			15%	Binder	
		Fibrous					
		Bound					
007C	Plaster Skim Coat	Heterogeneous			3%	Paint	None Detected
Layer 1		White			65%	Silicates	
A83724		Fibrous			32%	Calc Carb	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous	<1%	Cellulose	85%	Silicates	None Detected
A83724		Gray			15%	Binder	
		Fibrous					
		Bound					
007D	Surface Material	Heterogeneous			3%	Paint	None Detected
Layer 1		Off-white			65%	Silicates	
A83725		Fibrous			32%	Calc Carb	
		Bound					

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83725	Plaster Skim Coat	Heterogeneous White Fibrous Bound			3% 65% 32%	Paint Silicates Calc Carb	None Detected
Layer 3 A83725	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	85% 15%	Silicates Binder	None Detected
007E Layer 1 A83726	Plaster Skim Coat	Heterogeneous White Fibrous Bound			3% 65% 32%	Paint Silicates Calc Carb	None Detected
Layer 2 A83726	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	85% 15%	Silicates Binder	None Detected
007F Layer 1 A83727	Plaster Skim Coat	Heterogeneous White Fibrous Bound			3% 65% 32%	Paint Silicates Calc Carb	None Detected
Layer 2 A83727	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	85% 15%	Silicates Binder	None Detected
007G Layer 1 A83728	Plaster Skim Coat	Heterogeneous White Fibrous Bound			3% 65% 32%	Paint Silicates Calc Carb	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

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Layer 2 A83728	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	85% 15%	Silicates Binder	None Detected
007H Layer 1 A83729	Plaster Skim Coat	Heterogeneous White Fibrous Bound			3% 65% 32%	Paint Silicates Calc Carb	None Detected
008A Layer 1 A83729	Drywall	Heterogeneous White Fibrous Bound			3% 65% 32%	Paint Silicates Calc Carb	None Detected
Layer 2 A83729	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1%	Cellulose	85% 15%	Silicates Binder	None Detected
008A A83730	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
008B A83731	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
008C A83732	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
008D A83733	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
008E A83734	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
008F A83735	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
008G A83736	Drywall/Joint Compound	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	40% 25% 15%	Silicates Calc Carb Paint	None Detected
009A A83737A	Sheet Floor	Heterogeneous Gray Fibrous Bound			100%	Vinyl	None Detected
A83737B	Mastic	Heterogeneous Yellow Fibrous Bound			100%	Mastic	None Detected
009B A83738A	Sheet Floor	Heterogeneous Gray Fibrous Bound			100%	Vinyl	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
A83738B	Mastic	Heterogeneous Yellow Fibrous Bound			100%	Mastic	None Detected
009C A83739A	Sheet Floor	Heterogeneous Gray Fibrous Bound			100%	Vinyl	None Detected
A83739B	Mastic	Heterogeneous Yellow Fibrous Bound			100%	Mastic	None Detected
010A A83740A	Sheet Floor	Heterogeneous White,Gray Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
A83740B	Mastic	Heterogeneous Tan Fibrous Bound			100%	Mastic	None Detected
010B A83741A	Sheet Floor	Heterogeneous White,Gray Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
A83741B	Mastic	Heterogeneous Tan Fibrous Bound			100%	Mastic	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
010C A83742A	Sheet Floor	Heterogeneous White,Gray Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
A83742B	Mastic	Heterogeneous Tan Fibrous Bound			100%	Mastic	None Detected
011A A83743A	Sheet Floor	Heterogeneous Tan Fibrous Bound			75%	Vinyl	**25% Chrysotile**
A83743B	Mastic	Heterogeneous Tan Fibrous Bound			98%	Mastic	**2% Chrysotile**
Lab Notes: Probable contamination from positive sheet Floor.							
011B A83744	Sample Not Analyzed per COC						
011C A83745	Sample Not Analyzed per COC						
012A A83746A	Floor Tile	Heterogeneous Gray Fibrous Tightly Bound			65% 35%	Vinyl Calc Carb	None Detected
A83746B	Mastic	Heterogeneous Black Fibrous Bound			97%	Mastic	**3% Chrysotile**

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
012B A83747A	Floor Tile	Heterogeneous Gray Fibrous Tightly Bound			65% 35%	Vinyl Calc Carb	None Detected
A83747B	Sample Not Analyzed per COC						
012C A83748A	Floor Tile	Heterogeneous Gray Fibrous Tightly Bound			65% 35%	Vinyl Calc Carb	None Detected
A83748B	Sample Not Analyzed per COC						
013A A83749	Stage Curtain	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
013B A83750	Stage Curtain	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
013C A83751	Stage Curtain	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
014A A83752A	Sheet Floor	Heterogeneous Cream Fibrous Bound			75%	Vinyl	**25% Chrysotile**

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
A83752B	Mastic	Heterogeneous Tan Fibrous Bound	98%	Mastic	2% Chrysotile
Lab Notes: Probable contamination from positive sheet Floor.					
014B A83753	Sample Not Analyzed per COC				
014C A83754	Sample Not Analyzed per COC				
015A A83755A	Floor Tile	Heterogeneous Beige Fibrous Tightly Bound	65% 32%	Vinyl Calc Carb	3% Chrysotile
A83755B	Mastic	Heterogeneous Black Fibrous Bound	95%	Mastic	5% Chrysotile
015B A83756	Sample Not Analyzed per COC				
015C A83757	Sample Not Analyzed per COC				
016A A83758	Floor Mastic	Heterogeneous Green Fibrous Bound	100%	Mastic	None Detected
016B A83759	Floor Mastic	Heterogeneous Green Fibrous Bound	100%	Mastic	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
016C A83760	Floor Mastic	Heterogeneous Green Fibrous Bound			100%	Mastic	None Detected
017A A83761	Ceramic Wall Tile Mastic	Heterogeneous Tan Non-fibrous Loose			100%	Mastic	None Detected
017B A83762	Ceramic Wall Tile Mastic	Heterogeneous Tan Non-fibrous Loose			100%	Mastic	None Detected
017C A83763	Ceramic Wall Tile Mastic	Heterogeneous Tan Non-fibrous Loose			100%	Mastic	None Detected
018A A83764	Sink Coating	Heterogeneous Black Fibrous Loose			97%	Mastic	**3% Chrysotile**
018B A83765	Sample Not Analyzed per COC						
018C A83766	Sample Not Analyzed per COC						
019A A83767	Cloth Tsi Wrap	Heterogeneous White Fibrous Loose	75%	Cellulose	10% 15%	Metal Foil Mastic	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
019B A83768	Cloth Tsi Wrap	Heterogeneous White Fibrous Loose	75%	Cellulose	10% 15%	Metal Foil Mastic	None Detected
019C A83769	Cloth Tsi Wrap	Heterogeneous White Fibrous Loose	75%	Cellulose	10% 15%	Metal Foil Mastic	None Detected
020A A83770	Covebase Mastic	Heterogeneous Tan Fibrous Bound			100%	Mastic	None Detected
020B A83771	Covebase Mastic	Heterogeneous Tan Fibrous Bound			100%	Mastic	None Detected
020C A83772	Covebase Mastic	Heterogeneous Tan Fibrous Bound			100%	Mastic	None Detected
021A A83773	Paper Tsi Wrap	Heterogeneous Tan Fibrous Bound	75% 5%	Cellulose Fiberglass	20%	Metal Foil	None Detected
021B A83774	Paper Tsi Wrap	Heterogeneous Tan Fibrous Bound	75% 5%	Cellulose Fiberglass	20%	Metal Foil	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
021C A83775	Paper Tsi Wrap	Heterogeneous Tan Fibrous Bound	75% 5%	Cellulose Fiberglass	20%	Metal Foil	None Detected
022A A83776	Drywall	Heterogeneous White,Tan Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
022B A83777	Drywall	Heterogeneous White,Tan Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
022C A83778	Drywall	Heterogeneous White,Tan Fibrous Bound	25%	Cellulose	75%	Gypsum	None Detected
023A A83779	Ceiling Tile	Heterogeneous Brown,White Fibrous Loosely Bound	97%	Cellulose	3%	Paint	None Detected
023B A83780	Ceiling Tile	Heterogeneous Brown,White Fibrous Loosely Bound	97%	Cellulose	3%	Paint	None Detected
023C A83781	Ceiling Tile	Heterogeneous Brown,White Fibrous Loosely Bound	97%	Cellulose	3%	Paint	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

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024A A83782	Ceiling Tile	Heterogeneous Gray Fibrous Loosely Bound	35% 30%	Cellulose Fiberglass	32% 3%	Perlite Paint	None Detected
024B A83783	Ceiling Tile	Heterogeneous Gray Fibrous Loosely Bound	35% 30%	Cellulose Fiberglass	32% 3%	Perlite Paint	None Detected
024C A83784	Ceiling Tile	Heterogeneous Gray Fibrous Loosely Bound	35% 30%	Cellulose Fiberglass	32% 3%	Perlite Paint	None Detected
025A A83785	Chalk Board Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
025B A83786	Chalk Board Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
025C A83787	Chalk Board Mastic	Heterogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
026A A83788	Tsi Pipe Wrap	Heterogeneous Tan Non-fibrous Bound	15%	Fiberglass	85%	Vinyl	None Detected

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Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
026B A83789	Tsi Pipe Wrap	Heterogeneous Tan Non-fibrous Bound	15%	Fiberglass	85%	Vinyl	None Detected
026C A83790	Tsi Pipe Wrap	Heterogeneous Tan Non-fibrous Bound	15%	Fiberglass	85%	Vinyl	None Detected
027A Layer 1 A83791	Plaster Skim Coat	Heterogeneous Beige Non-fibrous Bound			25% 75%	Silicates Calc Carb	None Detected
Layer 2 A83791	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound			85% 15%	Silicates Binder	None Detected
027B Layer 1 A83792	Plaster Skim Coat	Heterogeneous Beige Non-fibrous Bound			25% 75%	Silicates Calc Carb	None Detected
Layer 2 A83792	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound			85% 15%	Silicates Binder	None Detected
027C Layer 1 A83793	Plaster Skim Coat	Heterogeneous Beige Non-fibrous Bound			25% 75%	Silicates Calc Carb	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83793	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound			85% 15%	Silicates Binder	None Detected
028A A83794	Cementitious Exterior Ceiling Tile	Heterogeneous Gray Fibrous Bound			90%	Binder	**10% Chrysotile**
028B A83795	Sample Not Analyzed per COC						
028C A83796	Sample Not Analyzed per COC						
029A Layer 1 A83797	Membrane	Heterogeneous White Non-fibrous Bound			100%	Rubber	None Detected
Layer 2 A83797	Membrane	Heterogeneous Black Non-fibrous Bound			100%	Rubber	None Detected
Layer 3 A83797	Gypsum	Heterogeneous White Non-fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
029B Layer 1 A83798	Membrane	Heterogeneous White Non-fibrous Bound			100%	Rubber	None Detected

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Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83798	Membrane	Heterogeneous Black Non-fibrous Bound			100%	Rubber	None Detected
Layer 3 A83798	Gypsum	Heterogeneous White Non-fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
029C Layer 1 A83799	Membrane	Heterogeneous White Non-fibrous Bound			100%	Rubber	None Detected
Layer 2 A83799	Membrane	Heterogeneous Black Non-fibrous Bound			100%	Rubber	None Detected
Layer 3 A83799	Gypsum	Heterogeneous Black Non-fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
030A A83800A	Floor Tile	Heterogeneous Tan Fibrous Tightly Bound			65% 30%	Vinyl Calc Carb	**5% Chrysotile**
A83800B	Mastic	Heterogeneous Black Non-fibrous Bound			100%	Mastic	None Detected
030B A83801A	Sample Not Analyzed per COC						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205163
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg A

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
A83801B	Mastic	Heterogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
030C A83802A	Sample Not Analyzed per COC				
A83802B	Mastic	Heterogeneous Black Non-fibrous Bound	100%	Mastic	None Detected

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Saithya Painkal

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	A205163
ECEI Lab I.D. Range:	A83704- A83802

99

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary Bldg A
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020		4/24 9:10

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Page _____ of _____

Version: CCOC.07.18.1/3.LD

A205163

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg A	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
001A-C	Fine/Directional Fissured Ceiling Tile		PLM ■	TEM ☐
002A-C	White Floor Tile/Tan Mastic		PLM ■	TEM ☐
003A-C	Drywall/Joint Compound		PLM ■	TEM ☐
004A-C	Tan Cove Base Mastic		PLM ■	TEM ☐
005A-C	Tarpaper		PLM ■	TEM ☐
006A-C	Tan Carpet Mastic		PLM ■	TEM ☐
007A-H	Plaster Base Coat/Skim Coat		PLM ■	TEM ☐
008A-G	Drywall/Joint Compound		PLM ■	TEM ☐
009A-C	Gray Sheet Floor		PLM ■	TEM ☐
010A-C	White,Gray Speckled Sheet Floor/Mastic		PLM ■	TEM ☐
011A-C	Brown Speckled Sheet Floor		PLM ■	TEM ☐
012A-C	Gray Floor Tile/Black Mastic		PLM ■	TEM ☐
013A-C	Stage Curtain		PLM ■	TEM ☐
014A-C	Tan Speckled Sheet Floor		PLM ■	TEM ☐
015A-C	Beiger Floor Tile/Black Mastic		PLM ■	TEM ☐
016A-C	Floor Mastic		PLM ■	TEM ☐
017A-C	Ceramic Wall Tile Mastic		PLM ■	TEM ☐
018A-C	Sink Coating		PLM ■	TEM ☐
019A-C	Cloth TSI Wrap		PLM ■	TEM ☐
020A-C	Tan Cove Base Mastic		PLM ■	TEM ☐
021A-C	Paper TSI Wrap		PLM ■	TEM ☐
022A-C	Drywall		PLM ■	TEM ☐
023A-C	Fiberous Ceiling Tile		PLM ■	TEM ☐
024A-C	Coarse Fissured Ceiling Tile		PLM ■	TEM ☐
025A-C	Chalk Board Mastic		PLM ■	TEM ☐
026A-C	TSI Pipe Wrap		PLM ■	TEM ☐
027A-C	Plaster Base Coat/Skim Coat		PLM ■	TEM ☐
028A-C	Cementitious Exterior Ceiling Tile		PLM ■	TEM ☐

A 205163

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg A	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION/LOCATION	VOLUME/ AREA	TEST	
029A-C	White Membrane/Black Membrane/Gypsu		PLM ☒	TEM ☐
030A-C	Brown Speckle Floor Tile/Black Mastic		PLM ☒	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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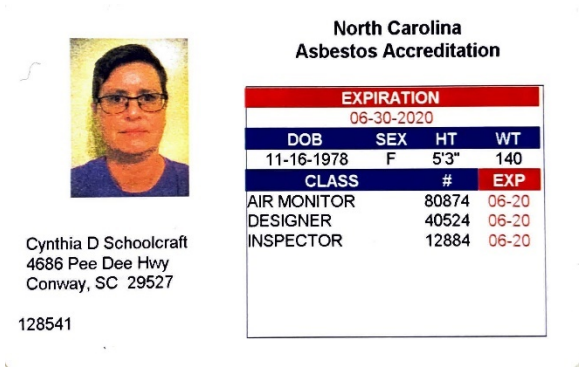
APPENDIX 4
License



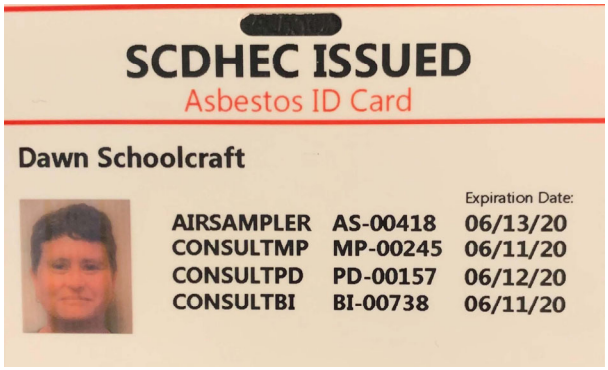
North Carolina
Asbestos Accreditation

Cynthia D Schoolcraft
4686 Pee Dee Hwy
Conway, SC 29527

128541

EXPIRATION			
06-30-2020			
DOB	SEX	HT	WT
11-16-1978	F	5'3"	140
CLASS		#	EXP
AIR MONITOR		80874	06-20
DESIGNER		40524	06-20
INSPECTOR		12884	06-20

12884, 06/30/2020, North Carolina, Dawn Schoolcraft



SCDHEC ISSUED
Asbestos ID Card

Dawn Schoolcraft

Expiration Date:

AIRSAMPLER	AS-00418	06/13/20
CONSULTMP	MP-00245	06/11/20
CONSULTPD	PD-00157	06/12/20
CONSULTBI	BI-00738	06/11/20

BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

ACAC

American Council for Accredited Certification

hereby certifies that

Cynthia "Dawn" Schoolcraft

has met all the specific standards and qualifications of the certification process and is hereby certified as a

CIEC

Council-certified
Indoor Environmental Consultant

This certificate expires on September 30, 2021.

Charles F. Wiles, Executive Director

1909008
Certificate Number

This certificate remains the property of the American Council for Accredited Certification.

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

United States Environmental Protection Agency

This is to certify that

Cynthia D Schoolcraft

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 16, 2021

LBP-R-I162035-1
Certification #

March 02, 2018
Issued On

Adrienne Priselac, Manager, Toxics Office
Land Division

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

ASBESTOS INSPECTION REPORT
BUILDING B
112 East Foy Street
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20-22, 2020
Report Prepared On – May 8, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20-22, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20-22, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 08, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 08, 2020

2.0 COVER LETTER

May 08, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
Building B – Cafeteria
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed an Asbestos Assessment and Inspection for Building B (Cafeteria) located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20-22, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County School requested this assessment for Building B (Cafeteria) located at 112 East Foy Street, in Richlands, North Carolina. Based on information obtained from you, the structure is scheduled for demolition. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to demolition.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 11,836 square-feet 2-story building, constructed on a slab-on-grade foundation, with an EPDM membrane roof. The building is comprised of a cafeteria, kitchen, classrooms on the 2nd floor, and restrooms. The roof sustained damage during a past hurricane resulting in major water intrusion during rain events. Remediation took place inside the building following the hurricane, but was not completed. Remediation consisted of removing the carpet from the 2nd floor classrooms, removing the suspended ceiling tile, and installing air movers and dehumidifiers to dry the building. The exterior consists of a brick veneer with metal framed doors and windows. The interior consists of masonry block walls, select plaster ceilings, drywall with associated joint compound mostly in bathrooms, vinyl floor tile, and ceramic tile.

Suspect materials sampled and analyzed during this inspection consists of chalk board mastic, vinyl cove base mastic, ceiling tile, drywall with associated joint compound, plaster, pipe insulation, multiple types of vinyl floor tile, window glazing, wallboard mastic, and roofing material.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos** >1% was detected in the following suspect materials collected and analyzed:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
007	Green Floor Tile/Black Mastic Adhered to Concrete	2nd Floor Hallway	Greater Than 1% Asbestos by Lab	5% Chrysotile	950 sf
009	Black Mastic Associated with Dark Blue Floor Tile Adhered to Concrete	Cafeteria	Greater Than 1% Asbestos by Lab	3% Chrysotile	200 sf
010	Beige, Gray Floor Tile/Black Mastic Adhered to Concrete	Cafeteria	Greater Than 1% Asbestos by Lab	5% Chrysotile	3500 sf

Due to the condition of the above identified floor tile, these materials will be deemed friable as the tile is very brittle from being exposed to long term water intrusion.

The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. Due to the condition of the above identified regulated ACMs, asbestos air monitoring will be required during abatement activities. Additionally, due to the quantity of regulated ACMs identified, an asbestos abatement project design will also be required.

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	Mastic	Chalk Board	500 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
002	Mastic	Vinyl Cove Base	80 sf	Miscellaneous	Significantly Damaged	Category II Nonfriable	Potential for Significant Damage	4
003	Ceiling Tile	Ceiling Throughout – Most Has Been Removed	80 sf	Miscellaneous	Significantly Damaged	Friable (RACM)	Potential for Significant Damage	4
004	Drywall	Select Walls	650 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
005	Hard Plaster, Walls and Ceilings	Select Walls and Ceilings	1350 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
006	Paper Wrap	Pipe Insulation	40 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
007	Floor Tile/Mastic	2nd Floor Hallways	950 sf	Miscellaneous	Significantly Damaged	Category I Nonfriable	Potential for Significant Damage	4
008	Light Blue Floor Tile/Mastic	1st Floor Cafeteria	200 sf	Miscellaneous	Significantly Damaged	Category I Nonfriable	Potential for Significant Damage	4
009	Dark Blue Floor Tile/Mastic	1st Floor Cafeteria	200 sf	Miscellaneous	Significantly Damaged	Category I Nonfriable	Potential for Significant Damage	4
010	Beige, Gray Floor Tile/Mastic	1st Floor Cafeteria	3500 sf	Miscellaneous	Significantly Damaged	Category I Nonfriable	Potential for Significant Damage	4
011	Gray Floor Tile/Mastic	1st Floor Cafeteria	60 sf	Miscellaneous	Significantly Damaged	Category I Nonfriable	Potential for Significant Damage	4
012	Glaze	Windows	300 sf	Miscellaneous	Significantly Damaged	Category II Nonfriable	Potential for Significant Damage	4

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
013	Mastic	Wallboard in Bathrooms	300 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
014	Tar on Foam	Roof	6500 sf	Miscellaneous	Significantly Damaged	Category I Nonfriable	Potential for Significant Damage	4

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
001B	Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
001C	Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
002A	White Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
002B	White Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
002C	White Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
003A	White Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
003B	White Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
003C	White Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
004A	White Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
004B	White Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
004C	White Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
004D	White Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
004E	White Drywall/Joint Compound	ND	N/A	Tested Negative by Lab	PLM
005A	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005B	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005C	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005D	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005E	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005F	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005G	White Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Grey Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
006A	Silver Paper Pipe Wrap	ND	N/A	Tested Negative by Lab	PLM
006B	Silver Paper Pipe Wrap	ND	N/A	Tested Negative by Lab	PLM
006C	Silver Paper Pipe Wrap	ND	N/A	Tested Negative by Lab	PLM
007A	Green Mastic	ND	N/A	Tested Negative by Lab	PLM
	Green Floor Tile	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab**	**PLM**
	Black Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab**	**PLM**
007B	Green Mastic	--	--	--	--
	Green Floor Tile	--	--	--	--
	Black Mastic	--	--	--	--
007C	Green Mastic	--	--	--	--

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
	Green Floor Tile	--	--	--	--
	Black Mastic	--	--	--	--
008A	Light Blue Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
008B	Light Blue Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
008C	Light Blue Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
009A	**Dark Blue Floor Tile**	**ND**	**N/A**	**Greater Than 1% Asbestos by Lab**	**PLM**
	Black Mastic	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab**	**PLM**
009B	**Dark Blue Floor Tile**	--	--	--	--
	Black Mastic	--	--	--	--
009C	**Dark Blue Floor Tile**	--	--	--	--
	Black Mastic	--	--	--	--
010A	**Beige, Gray Floor Tile**	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab**	**PLM**
	Black Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab**	**PLM**
010B	**Beige, Grey Floor Tile**	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
010C	**Beige, Grey Floor Tile**	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
011A	Grey Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
011B	Grey Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
011C	Grey Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
012A	Grey Window Glazing	ND	N/A	Tested Negative by Lab	PLM
012B	Grey Window Glazing	ND	N/A	Tested Negative by Lab	PLM
012C	Grey Window Glazing	ND	N/A	Tested Negative by Lab	PLM
013A	Beige Wallboard Mastic	ND	N/A	Tested Negative by Lab	PLM
013B	Beige Wallboard Mastic	ND	N/A	Tested Negative by Lab	PLM
013C	Beige Wallboard Mastic	ND	N/A	Tested Negative by Lab	PLM
014A	Black Roof Tar on Foam	ND	N/A	Tested Negative by Lab	PLM
014B	Black Roof Tar on Foam	ND	N/A	Tested Negative by Lab	PLM
014C	Black Roof Tar on Foam	ND	N/A	Tested Negative by Lab	PLM

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan, sample location plan, and asbestos location plans are identified as Figures 1 thru 3 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos** >1 % was detected in the following suspect materials sampled and analyzed for Building B (Cafeteria) located at 112 East Foy Street, in Richlands, North Carolina:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
007	Green Floor Tile/Black Mastic Adhered to Concrete	2nd Floor Hallway	Greater Than 1% Asbestos by Lab	5% Chrysotile	950 sf
009	Black Mastic Associated with Dark Blue Floor Tile Adhered to Concrete	Cafeteria	Greater Than 1% Asbestos by Lab	3% Chrysotile	200 sf
010	Beige, Gray Floor Tile/Black Mastic Adhered to Concrete	Cafeteria	Greater Than 1% Asbestos by Lab	5% Chrysotile	3500 sf

Due to the condition of the above identified floor tile, these materials will be deemed friable as the tile is very brittle from being exposed to long term water intrusion.

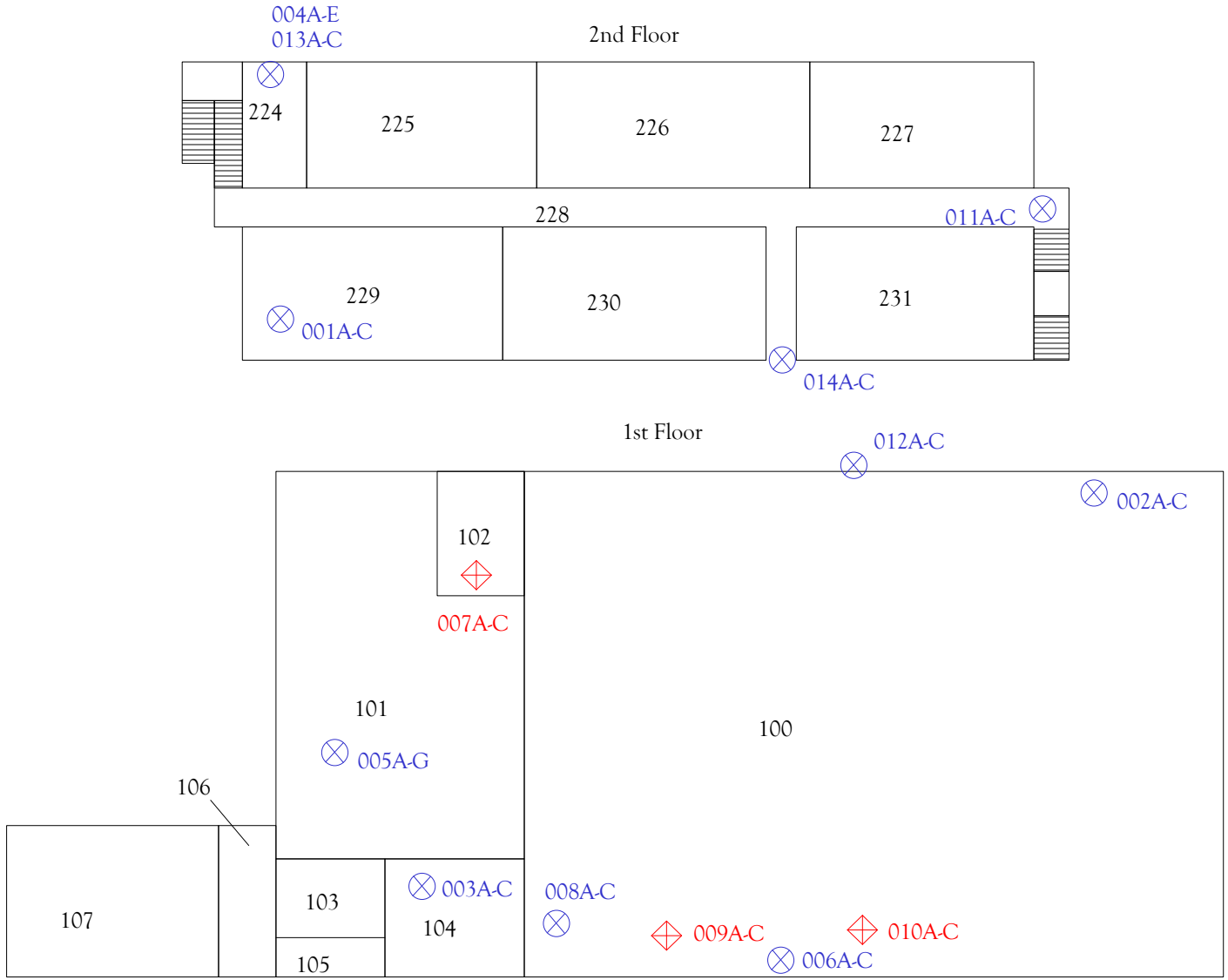
The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. Due to the condition of the above identified regulated ACMs, asbestos air monitoring will be required during abatement activities. Additionally, due to the quantity of regulated ACMs identified, an asbestos abatement project design will also be required.

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan, Sample Location Plan, and Asbestos Location Plan

	Site Location Plan Richlands Elementary School Building B Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**



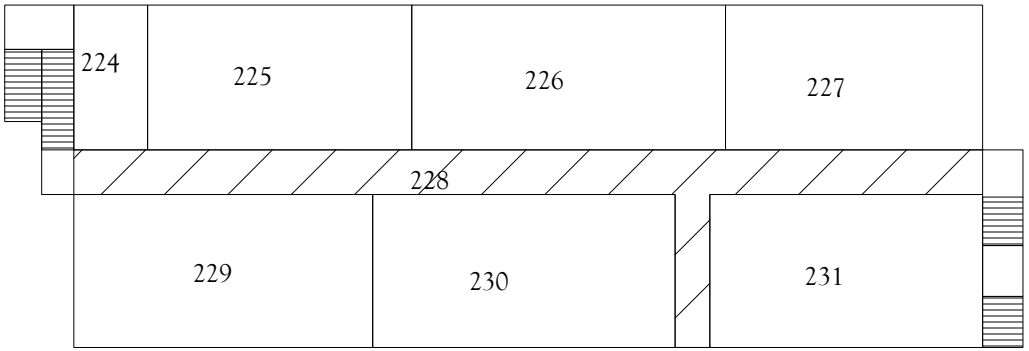
LEGEND

⊗ Sample Location

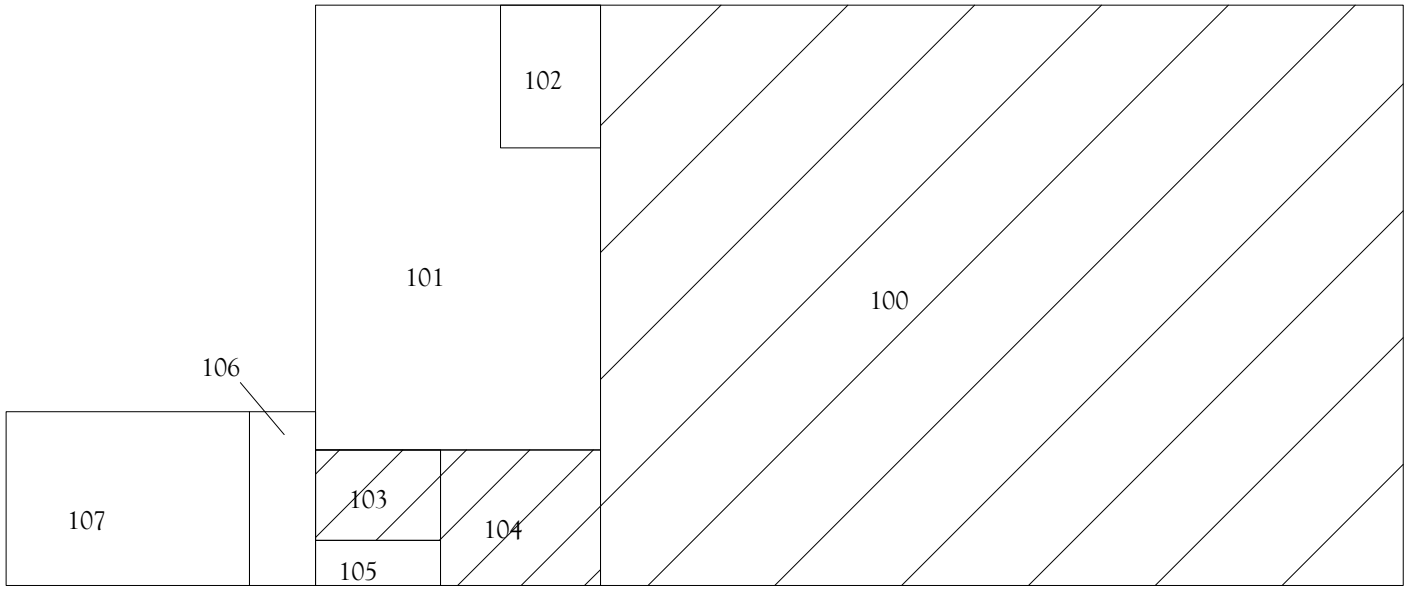
◈ Asbestos Containing Sample Location

	Asbestos Sample Location Plan Richlands Elementary School Building B Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**

2nd Floor



1st Floor



LEGEND

- Sample Location
- Asbestos Containing Sample Location
- Asbestos containing floor tile and/or mastic - Approx. 4650 sf total for both 1st and 2nd Floors

	Asbestos Location Plan Richlands Elementary School Building B Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 3**

APPENDIX 2
Photographs

Site Photos

Chalk Board, Building B

2nd Floor Hallway, Building B

2nd Floor, Building B

2nd Floor, Building B

2nd Floor, Building B

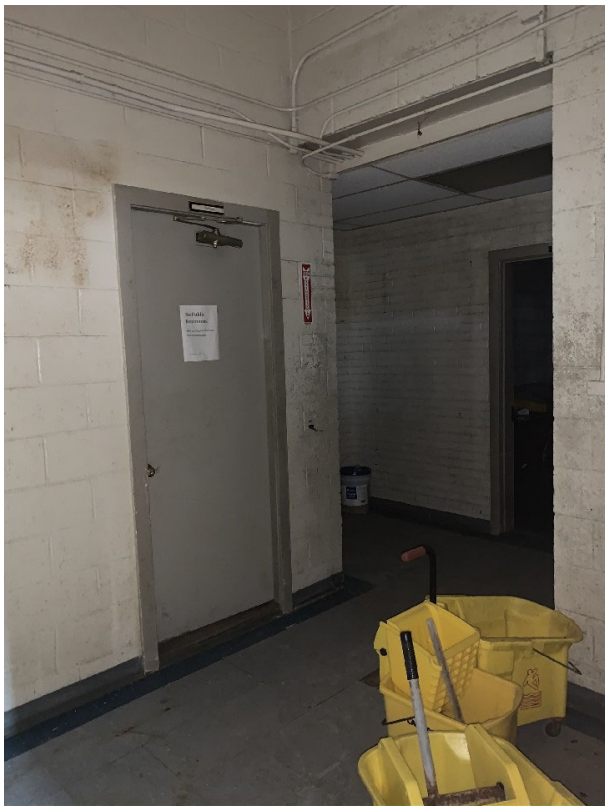
2nd Floor, Building B

2nd Floor, Building B

1st Floor, Building B

1st Floor, Building B

1st Floor, Building B



1st Floor, Building B

Roof, Building B

Roof, Building B

Roof, Building B

Exterior, Building B

Exterior, Building B

Interior , Building B

Interior , Building B

Interior , Building B

APPENDIX 3
Laboratory Results

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May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary Bldg B
CEI LAB CODE: A205167

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary Bldg B

LAB CODE: A205167

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 42

SAMPLES >1% ASBESTOS: 5

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg B **LAB CODE:** A205167

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A83866	Brown	Chalk Board Mastic	None Detected
001B		A83867	Brown	Chalk Board Mastic	None Detected
001C		A83868	Brown	Chalk Board Mastic	None Detected
002A		A83869	White	Cove Base Mastic	None Detected
002B		A83870	White	Cove Base Mastic	None Detected
002C		A83871	White	Cove Base Mastic	None Detected
003A		A83872	White	Ceiling Tile	None Detected
003B		A83873	White	Ceiling Tile	None Detected
003C		A83874	White	Ceiling Tile	None Detected
004A		A83875	White	Drywall/Joint Compound	None Detected
004B		A83876	White	Drywall/Joint Compound	None Detected
004C		A83877	White	Drywall/Joint Compound	None Detected
004D		A83878	White	Drywall/Joint Compound	None Detected
004E		A83879	White	Drywall/Joint Compound	None Detected
005A	Layer 1	A83880	White	Plaster Skim Coat	None Detected
	Layer 2	A83880	Gray	Plaster Base Coat	None Detected
005B	Layer 1	A83881	White	Plaster Skim Coat	None Detected
	Layer 2	A83881	Gray	Plaster Base Coat	None Detected
005C	Layer 1	A83882	White	Plaster Skim Coat	None Detected
	Layer 2	A83882	Gray	Plaster Base Coat	None Detected
005D	Layer 1	A83883	White	Plaster Skim Coat	None Detected
	Layer 2	A83883	Gray	Plaster Base Coat	None Detected
005E	Layer 1	A83884	White	Plaster Skim Coat	None Detected
	Layer 2	A83884	Gray	Plaster Base Coat	None Detected
005F	Layer 1	A83885	White	Plaster Skim Coat	None Detected
	Layer 2	A83885	Gray	Plaster Base Coat	None Detected
005G	Layer 1	A83886	White	Plaster Skim Coat	None Detected
	Layer 2	A83886	Gray	Plaster Base Coat	None Detected
006A		A83887	Silver	Paper Pipe Wrap	None Detected
006B		A83888	Silver	Paper Pipe Wrap	None Detected
006C		A83889	Silver	Paper Pipe Wrap	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg B **LAB CODE:** A205167

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
007A	Layer 1	A83890A	Green	Mastic	None Detected
	Layer 2	A83890A	Green	Floor Tile	Chrysotile 5%
		A83890B	Black	Mastic	Chrysotile 5%
007B		A83891		Sample Not Analyzed per COC	
007C		A83892		Sample Not Analyzed per COC	
008A		A83893A	Light Blue	Floor Tile	None Detected
		A83893B	Tan	Mastic	None Detected
008B		A83894A	Light Blue	Floor Tile	None Detected
		A83894B	Tan	Mastic	None Detected
008C		A83895A	Light Blue	Floor Tile	None Detected
		A83895B	Tan	Mastic	None Detected
009A		A83896A	Dark Blue	Floor Tile	None Detected
		A83896B	Black	Mastic	Chrysotile 3%
009B		A83897		Sample Not Analyzed per COC	
009C		A83898		Sample Not Analyzed per COC	
010A		A83899A	Beige,Gray	Floor Tile	Chrysotile 5%
		A83899B	Black	Mastic	Chrysotile 5%
010B		A83900		Sample Not Analyzed per COC	
010C		A83901		Sample Not Analyzed per COC	
011A		A83902A	Gray	Floor Tile	None Detected
		A83902B	Tan	Mastic	None Detected
011B		A83903A	Gray	Floor Tile	None Detected
		A83903B	Tan	Mastic	None Detected
011C		A83904A	Gray	Floor Tile	None Detected
		A83904B	Tan	Mastic	None Detected
012A		A83905	Gray	Window Glazing	None Detected
012B		A83906	Gray	Window Glazing	None Detected
012C		A83907	Gray	Window Glazing	None Detected
013A		A83908	Beige	Wallboard Mastic	None Detected
013B		A83909	Beige	Wallboard Mastic	None Detected
013C		A83910	Beige	Wallboard Mastic	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg B **LAB CODE:** A205167

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
014A		A83911	Black	Roof Tar	None Detected
014B		A83912	Black	Roof Tar	None Detected
014C		A83913	Black	Roof Tar	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
001A A83866	Chalk Board Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
001B A83867	Chalk Board Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
001C A83868	Chalk Board Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
002A A83869	Cove Base Mastic	Heterogeneous White Non-fibrous Bound			100%	Mastic	None Detected
002B A83870	Cove Base Mastic	Heterogeneous White Non-fibrous Bound			100%	Mastic	None Detected
002C A83871	Cove Base Mastic	Heterogeneous White Non-fibrous Bound			100%	Mastic	None Detected
003A A83872	Ceiling Tile	Heterogeneous White Fibrous Bound	40% 20%	Cellulose Fiberglass	35% 5%	Perlite Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
003B A83873	Ceiling Tile	Heterogeneous White Fibrous Bound	40% 20%	Cellulose Fiberglass	35% 5%	Perlite Paint	None Detected
003C A83874	Ceiling Tile	Heterogeneous White Fibrous Bound	40% 20%	Cellulose Fiberglass	35% 5%	Perlite Paint	None Detected
004A A83875	Drywall/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	70% 10% 5%	Gypsum Calc Carb Paint	None Detected
004B A83876	Drywall/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	70% 10% 5%	Gypsum Calc Carb Paint	None Detected
004C A83877	Drywall/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	70% 10% 5%	Gypsum Calc Carb Paint	None Detected
004D A83878	Drywall/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	70% 10% 5%	Gypsum Calc Carb Paint	None Detected
004E A83879	Drywall/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	70% 10% 5%	Gypsum Calc Carb Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
005A	Plaster Skim Coat	Heterogeneous			75%	Calc Carb	None Detected
Layer 1		White			20%	Silicates	
A83880		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous	<1%	Cellulose	75%	Silicates	None Detected
A83880		Gray	<1%	Hair	25%	Binder	
		Fibrous					
		Bound					
005B	Plaster Skim Coat	Heterogeneous			75%	Calc Carb	None Detected
Layer 1		White			20%	Silicates	
A83881		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous	<1%	Cellulose	75%	Silicates	None Detected
A83881		Gray	<1%	Hair	25%	Binder	
		Fibrous					
		Bound					
005C	Plaster Skim Coat	Heterogeneous			75%	Calc Carb	None Detected
Layer 1		White			20%	Silicates	
A83882		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Plaster Base Coat	Heterogeneous	<1%	Cellulose	75%	Silicates	None Detected
A83882		Gray	<1%	Hair	25%	Binder	
		Fibrous					
		Bound					
005D	Plaster Skim Coat	Heterogeneous			75%	Calc Carb	None Detected
Layer 1		White			20%	Silicates	
A83883		Non-fibrous			5%	Paint	
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83883	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1% <1%	Cellulose Hair	75% 25%	Silicates Binder	None Detected
005E Layer 1 A83884	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			75% 20% 5%	Calc Carb Silicates Paint	None Detected
Layer 2 A83884	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1% <1%	Cellulose Hair	75% 25%	Silicates Binder	None Detected
005F Layer 1 A83885	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			75% 20% 5%	Calc Carb Silicates Paint	None Detected
Layer 2 A83885	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1% <1%	Cellulose Hair	75% 25%	Silicates Binder	None Detected
005G Layer 1 A83886	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			75% 20% 5%	Calc Carb Silicates Paint	None Detected
Layer 2 A83886	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1% <1%	Cellulose Hair	75% 25%	Silicates Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
006A A83887	Paper Pipe Wrap	Heterogeneous Silver Fibrous Bound	25% 60%	Fiberglass Cellulose	15%	Metal Foil	None Detected
006B A83888	Paper Pipe Wrap	Heterogeneous Silver Fibrous Bound	25% 60%	Fiberglass Cellulose	15%	Metal Foil	None Detected
006C A83889	Paper Pipe Wrap	Heterogeneous Silver Fibrous Bound	25% 60%	Fiberglass Cellulose	15%	Metal Foil	None Detected
007A Layer 1 A83890A	Mastic	Heterogeneous Green Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 A83890A	Floor Tile	Heterogeneous Green Fibrous Bound			95%	Vinyl	**5% Chrysotile**
A83890B	Mastic	Heterogeneous Black Fibrous Bound			95%	Mastic	**5% Chrysotile**
007B A83891	Sample Not Analyzed per COC						
007C A83892	Sample Not Analyzed per COC						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
008A A83893A	Floor Tile	Homogeneous Light Blue Non-fibrous Bound		100%	Vinyl	None Detected
A83893B	Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
008B A83894A	Floor Tile	Homogeneous Light Blue Non-fibrous Bound		100%	Vinyl	None Detected
A83894B	Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
008C A83895A	Floor Tile	Homogeneous Light Blue Non-fibrous Bound		100%	Vinyl	None Detected
A83895B	Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
009A A83896A	Floor Tile	Homogeneous Dark Blue Non-fibrous Bound		100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
A83896B	Mastic	Homogeneous Black Fibrous Bound		97%	Mastic	3% Chrysotile
009B A83897	Sample Not Analyzed per COC					
009C A83898	Sample Not Analyzed per COC					
010A A83899A	Floor Tile	Homogeneous Beige,Gray Fibrous Bound		95%	Vinyl	5% Chrysotile
A83899B	Mastic	Homogeneous Black Fibrous Bound		95%	Mastic	5% Chrysotile
010B A83900	Sample Not Analyzed per COC					
010C A83901	Sample Not Analyzed per COC					
011A A83902A	Floor Tile	Heterogeneous Gray Non-fibrous Bound		100%	Vinyl	None Detected
A83902B	Mastic	Heterogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
011B A83903A	Floor Tile	Heterogeneous Gray Non-fibrous Bound		100%	Vinyl	None Detected
A83903B	Mastic	Heterogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
011C A83904A	Floor Tile	Heterogeneous Gray Non-fibrous Bound		100%	Vinyl	None Detected
A83904B	Mastic	Heterogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
012A A83905	Window Glazing	Heterogeneous Gray Non-fibrous Bound		75% 20% 5%	Binder Calc Carb Paint	None Detected
012B A83906	Window Glazing	Heterogeneous Gray Non-fibrous Bound		75% 20% 5%	Binder Calc Carb Paint	None Detected
012C A83907	Window Glazing	Heterogeneous Gray Non-fibrous Bound		75% 20% 5%	Binder Calc Carb Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205167
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg B

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
013A A83908	Wallboard Mastic	Heterogeneous Beige Non-fibrous Bound		100%	Mastic	None Detected
013B A83909	Wallboard Mastic	Heterogeneous Beige Non-fibrous Bound		100%	Mastic	None Detected
013C A83910	Wallboard Mastic	Heterogeneous Beige Non-fibrous Bound		100%	Mastic	None Detected
014A A83911	Roof Tar	Heterogeneous Black Non-fibrous Bound		100%	Tar	None Detected
014B A83912	Roof Tar	Heterogeneous Black Non-fibrous Bound		100%	Tar	None Detected
014C A83913	Roof Tar	Heterogeneous Black Non-fibrous Bound		100%	Tar	None Detected

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Yvette Nkunde-Bose

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

AJ05167
AJ83866-
AJ83913

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

48

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary Bldg B
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020	[illegible]	4/24 9:30

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/3.LD

A205167

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg B	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
001A-C	Chalk Board Mastic		PLM ■	TEM ☐
002A-C	Cove Base Mastic Only		PLM ■	TEM ☐
003A-C	Ceiling Tile		PLM ■	TEM ☐
004A-E	Drywall/Joint Compound		PLM ■	TEM ☐
005A-C G	Plaster Base Coat/Skim Coat		PLM ■	TEM ☐
006A-C	Paper Pipe Wrap		PLM ■	TEM ☐
007A-C	Floor Tile/Black Mastic		PLM ■	TEM ☐
008A-C	Light Blue Tile/Tan Mastic		PLM ■	TEM ☐
009A-C	Dark Blue Tile/Black Mastic		PLM ■	TEM ☐
010A-C	Beige,Gray Floor tile		PLM ■	TEM ☐
011A-C	Gray Floor Tile/Tan Mastic		PLM ■	TEM ☐
012A-C	Window Glaze		PLM ■	TEM ☐
013A-C	Wallboard Mastic		PLM ■	TEM ☐
014A-C	Roof Tar		PLM ■	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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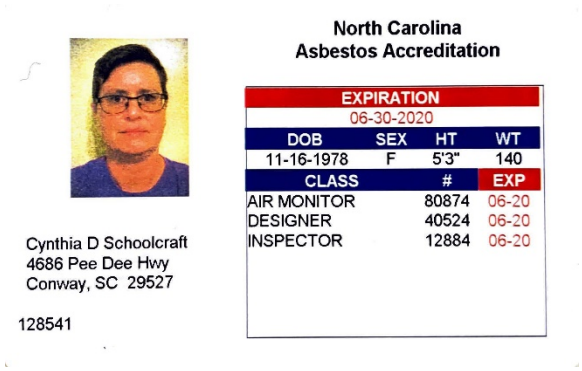
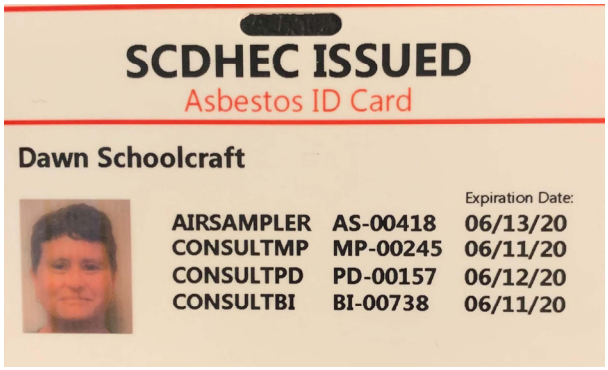
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

APPENDIX 4
License



12884, 06/30/2020, North Carolina, Dawn Schoolcraft



BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

LIMITED ASBESTOS INSPECTION REPORT
BUILDING C
112 East Foy Street
Richlands, North Carolina
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20-22, 2020
Report Prepared On – May 11, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20-22, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20-22, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 11, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 11, 2020

2.0 COVER LETTER

May 11, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
Building C
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed a Limited Asbestos Assessment and Inspection for Building C located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20-22, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County Schools requested this assessment for Building C located at 112 East Foy Street, in Richlands, North Carolina. Based on information obtained from you, the structure is scheduled for renovations only. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to any renovation activities.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 10,450 square-feet building, constructed on a slab-on-grade foundation, with a flat roofing system. The roof was not included in this survey, as work will be limited to renovations only. The building is comprised of multiple classrooms and restrooms. The exterior consists of a brick veneer with metal framed doors and windows with cementitious eaves that traverse the exterior of the entire building. The interior consists of masonry block walls, suspended ceiling tile systems, carpet, and multiple types of vinyl floor coverings. Based on information provided, we understand that the piping for the building runs along the base of the building and is mostly exposed. It does not appear that the pipes run overhead. Select renovations have taken place to include new cabinets and it appears that the flooring in the areas at the cabinets have been replaced. Water damage did occur in the right rear classroom that resulted in a new ceiling tile system.

Suspect materials sampled and analyzed during this inspection consists of multiple types of vinyl floor coverings, vinyl cove base mastic, pipe insulation, chalk board mastic, window glaze, window caulk, carpet mastic, multiple ceiling tile, and cementitious eaves.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos** >1% was detected in the following suspect materials collected and analyzed:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
001	12"x12" Beige Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	1400 sf
004	12"x12" Beige Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	5% Chrysotile	480 sf
007	Brown Floor Tile and Black Mastic Under Sheet Floor Adhered to Concrete	Classroom	Greater Than 1% Asbestos by Lab (ACM)	5% Chrysotile	240 sf
008	Green Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	3% Chrysotile	3575 sf
010	Window Glaze	Exterior Windows	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	300 sf
015	Cementitious Panels	Eaves	Greater Than 1% Asbestos by Lab (ACM)	20% Chrysotile	1000 sf

The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. The above identified floorings are in good condition and can most likely be removed in a non-friable manner. However, asbestos air monitoring will be required for any friable abatement work (i.e. pipe insulation).

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	12"x12" Beige Floor Tile	Classrooms	1400 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
002	Mastic	Vinyl Cove Base in Select Areas	40 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
003	12"x12" Gray Floor Tile	Classrooms	240 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
004	12"x12" Beige Floor Tile	Classrooms	480 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
005	12"x12" White/Blue Floor Tile	Hall	1080 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
006	Cloth Wrap	Pipe	120 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
007	Blue Speckle Sheet Floor	Classrooms	240 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
008	Tan Floor Tile	Classrooms	3575 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
009	12"x12" Peg Board Ceiling Tile	Throughout	10,200 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
010	Glaze	Exterior Windows	300 sf	Miscellaneous	Significantly Damaged	Category II Nonfriable	Potential for Significant Damage	4
011	Caulk	Exterior Windows	50 sf	Miscellaneous	Significantly Damaged	Category II Nonfriable	Potential for Significant Damage	4
012	Brown Mastic	Chalkboard	1280 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
013	Carpet Mastic	Classrooms	8800 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
014	Ceiling Tile	Right Rear Classroom	900 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
015	Cementitious Panels	Eaves	1000 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for No/Very Low Damage	7

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	**Tan Mastic**	**ND**	**NA**	**Tested Negative by Lab**	**PLM**
	12"x12" Beige Floor Tile	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Grey Levelling Compound	**ND**	**NA**	**Tested Negative by Lab**	**PLM**
	Black Mastic	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
001B	**Tan Mastic**	**--**	**--**	**--**	**--**
	12"x12" Beige Floor Tile	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
	Grey Levelling Compound	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
001C	**Tan Mastic**				
	12"x12" Beige Floor Tile	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
	Grey Levelling Compound	**--**	**--**	**--**	**--**

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
	Black Mastic	**--**	**--**	**--**	**--**
002A	Tan Cove Base Mastic	ND	NA	Tested Negative by Lab	PLM
002B	Tan Cove Base Mastic	ND	NA	Tested Negative by Lab	PLM
002C	Tan Cove Base Mastic	ND	NA	Tested Negative by Lab	PLM
003A	12"x12" Grey Floor Tile	ND	NA	Tested Negative by Lab	PLM
	Black Mastic	ND	NA	Tested Negative by Lab	PLM
003B	12"x12" Grey Floor Tile	ND	NA	Tested Negative by Lab	PLM
	Black Mastic	ND	NA	Tested Negative by Lab	PLM
003C	12"x12" Grey Floor Tile	ND	NA	Tested Negative by Lab	PLM
	Black Mastic	ND	NA	Tested Negative by Lab	PLM
004A	**12"x12" Beige Floor Tile**	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
004B	**12"x12" Beige Floor Tile**	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
004C	**12"x12" Beige Floor Tile**	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
005A	12"x12" White/Blue Floor Tile	ND	NA	Tested Negative by Lab	PLM
	Tan Mastic	ND	NA	Tested Negative by Lab	PLM
005B	12"x12" White/Blue Floor Tile	ND	NA	Tested Negative by Lab	PLM
	Tan Mastic	ND	NA	Tested Negative by Lab	PLM
005C	12"x12" White/Blue Floor Tile	ND	NA	Tested Negative by Lab	PLM
	Tan Mastic	ND	NA	Tested Negative by Lab	PLM
006A	Silver Cloth Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
006B	Cloth Wrap	ND	NA	Tested Negative by Lab	PLM
006C	Cloth Wrap	ND	NA	Tested Negative by Lab	PLM
007A	**Blue Speckle Sheet Floor**	**ND**	**NA**	**Tested Negative by Lab**	**PLM**
	Tan Mastic	**ND**	**NA**	**Tested Negative by Lab**	**PLM**
	Brown Floor Tile	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
007B	**Blue Speckle Sheet Floor**	**--**	**--**	**--**	**--**
	Tan Mastic	**--**	**--**	**--**	**--**
	Brown Floor Tile	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
007C	**Blue Speckle Sheet Floor**	**--**	**--**	**--**	**--**
	Tan Mastic	**--**	**--**	**--**	**--**
	Brown Floor Tile	**--**	**--**	**--**	**--**
	Black Mastic	**--**	**--**	**--**	**--**
008A	Tan Mastic	ND	N/A	Tested Negative by Lab	PLM
	Green Floor Tile	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
008B	**Tan Mastic**	**--**	**--**	**--**	**--**
	Green Floor Tile	**--**	**--**	**--**	**--**

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
	Black Mastic	--	--	--	--
008C	**Tan Mastic**	--	--	--	--
	Green Floor Tile	--	--	--	--
	Black Mastic	--	--	--	--
009A	12"x12" Brown Peg Board Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
	Brown Mastic	ND	N/A	Tested Negative by Lab	PLM
	Grey Cementitious Material	ND	N/A	Tested Negative by Lab	PLM
009B	12"x12" Brown Peg Board Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
	Brown Mastic	ND	N/A	Tested Negative by Lab	PLM
	Grey Cementitious Material	ND	N/A	Tested Negative by Lab	PLM
009C	12"x12" Brown Peg Board Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
	Brown Mastic	ND	N/A	Tested Negative by Lab	PLM
	Grey Cementitious Material	ND	N/A	Tested Negative by Lab	PLM
010A	**Grey Window Glazing**	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
010B	**Grey Window Glazing**	--	--	--	--
010C	**Grey Window Glazing**	--	--	--	--
011A	White Window Caulking	ND	N/A	Tested Negative by Lab	PLM
011B	White Window Caulking	ND	N/A	Tested Negative by Lab	PLM
011C	White Window Caulking	ND	N/A	Tested Negative by Lab	PLM
012A	Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
012B	Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
012C	Brown Chalk Board Mastic	ND	N/A	Tested Negative by Lab	PLM
013A	Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
013B	Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
013C	Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
014A	White Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
014B	White Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
014C	White Ceiling Tile	ND	N/A	Tested Negative by Lab	PLM
015A	**Grey Cementitious Eaves Panels**	**20%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
015B	**Grey Cementitious Eaves Panels**	**--**	**--**	**--**	**--**
015C	**Grey Cementitious Eaves Panels**	**--**	**--**	**--**	**--**

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan, sample location plan, and asbestos sample location plans are identified as Figures 1 thru 3 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos** >1 % was detected in the following suspect materials sampled and analyzed for Building C located at 112 East Foy Street, in Richlands, North Carolina:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
001	12"x12" Beige Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	1400 sf
004	12"x12" Beige Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	5% Chrysotile	480 sf
007	Brown Floor Tile and Black Mastic Under Sheet Floor Adhered to Concrete	Classroom	Greater Than 1% Asbestos by Lab (ACM)	5% Chrysotile	240 sf
008	Green Floor Tile and Black Mastic Mostly Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab (ACM)	3% Chrysotile	3575 sf
010	Window Glaze	Exterior Windows	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	300 sf
015	Cementitious Panels	Eaves	Greater Than 1% Asbestos by Lab (ACM)	20% Chrysotile	1000 sf

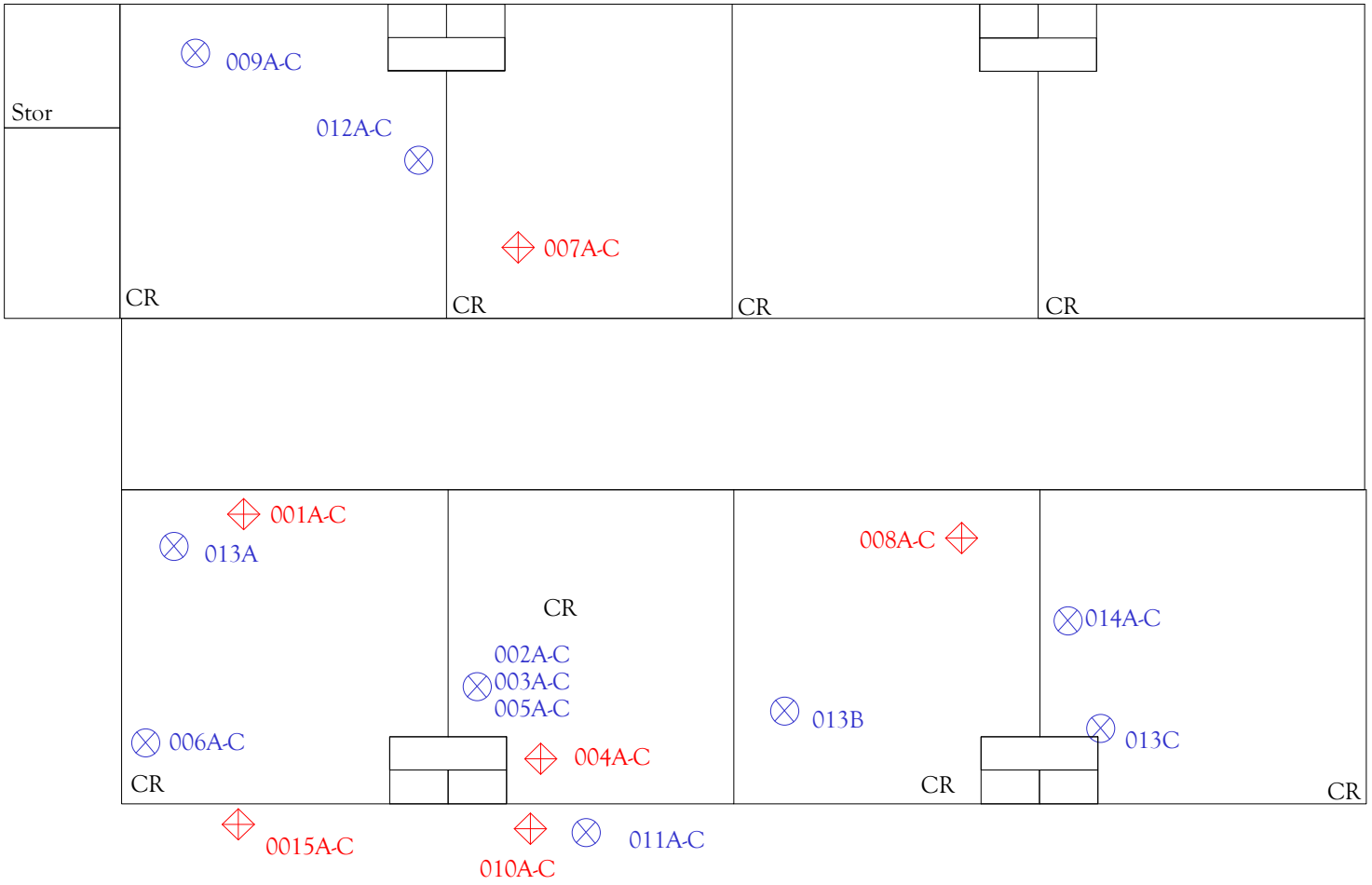
The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. The above identified floorings are in good condition and can most likely be removed in a non-friable manner. However, asbestos air monitoring will be required for any friable abatement work (i.e. pipe insulation).

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

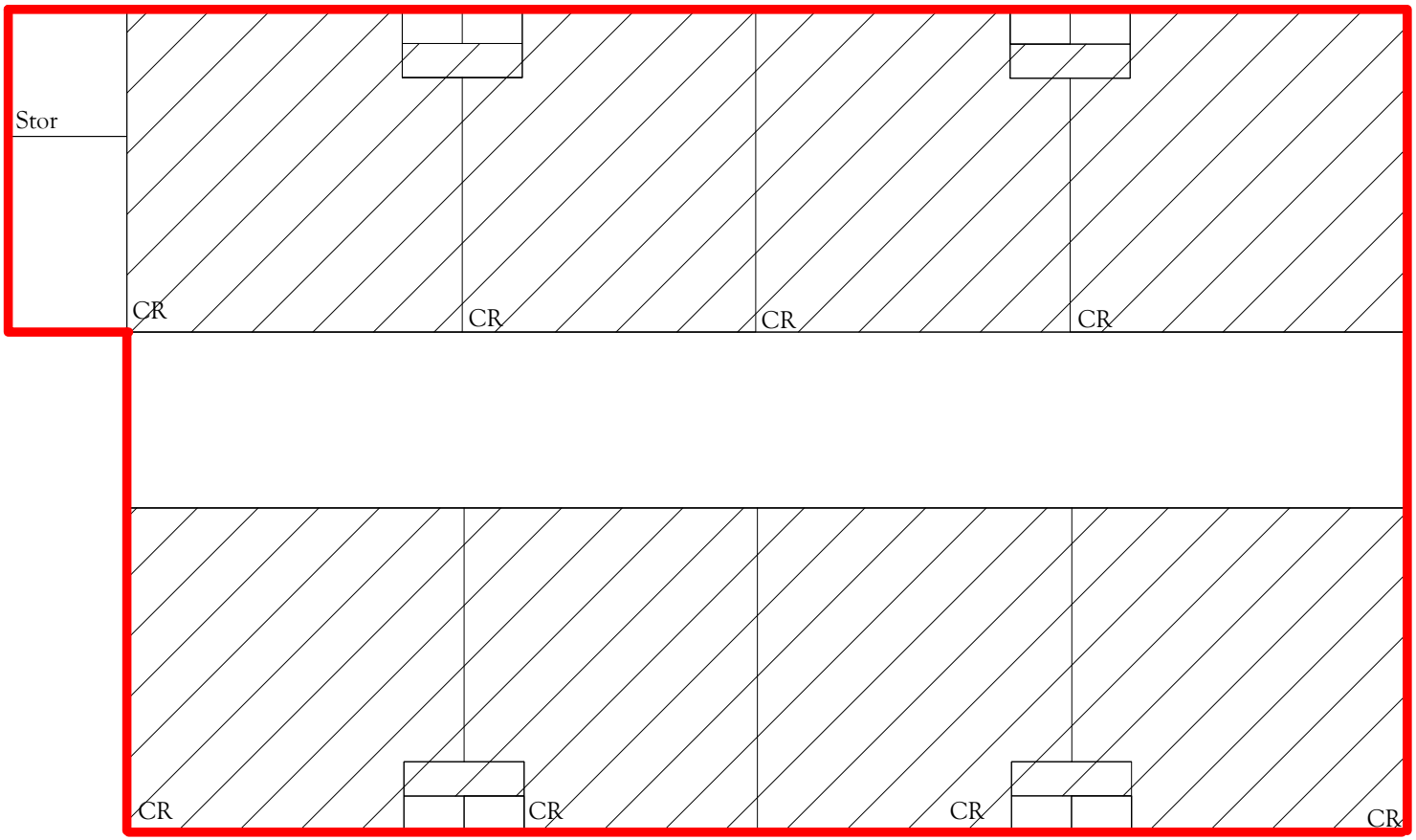
The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan and Sample Location Plan

	Site Location Plan Richlands Elementary School Building C Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**



Asbestos Sample Location Plan Richlands Elementary School Building C Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**	LEGEND ⊗ Sample Location ◈ Asbestos Containing Sample Location



LEGEND

Asbestos containing flooring and/or mastic - Approx. 5,695 sf total

Asbestos containing cementitious eave panels around perimeter of bldg. - Approx. 1,000 sf

Notes: Asbestos containing window glazing and caulking was identified on all windows - Approx. 300 sf for window glaze and approx. 50 sf for window caulk.

	Asbestos Location Plan Richlands Elementary School Bluilding C Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 3**

APPENDIX 2
Photographs

Site Photos

Classrooms, Building C

Classrooms, Building C

Classrooms, Building C

Classrooms, Building C

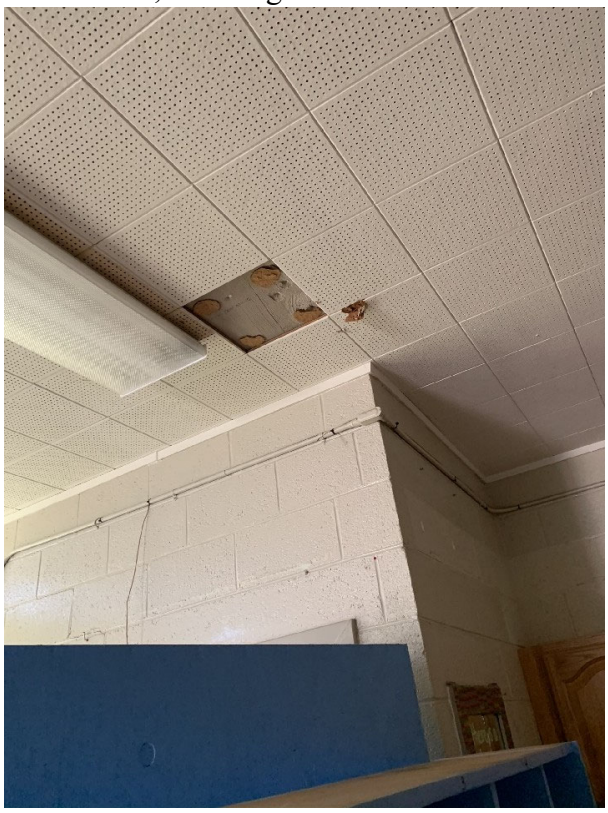
Classrooms, Building C

Classrooms, Building C

Classrooms, Building C

Classrooms, Building C

Classrooms, Building C



Classrooms, Building C

Classrooms, Building C

Classrooms, Building C

Hall, Building C

Exterior, Building C

Exterior, Building C


Exterior, Building C


Exterior, Building C

APPENDIX 3
Laboratory Results

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May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary Bldg C
CEI LAB CODE: A205161

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary Bldg C

LAB CODE: A205161

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 33

SAMPLES >1% ASBESTOS: 11

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg C **LAB CODE:** A205161

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A	Layer 1	A83576A	Tan	Mastic	None Detected
	Layer 2	A83576A	Beige	Floor Tile	Chrysotile 2%
	Layer 1	A83576B	Black	Mastic	Chrysotile 2%
	Layer 2	A83576B	Gray	Leveling Compound	None Detected
	Layer 3	A83576B	Black	Mastic	Chrysotile 2%
001B		A83577		Sample Not Analyzed per COC	
001C		A83578		Sample Not Analyzed per COC	
002A		A83579	Tan	Cove Base Mastic	None Detected
002B		A83580	Tan	Cove Base Mastic	None Detected
002C		A83581	Tan	Cove Base Mastic	None Detected
003A		A83582A	Gray	Floor Tile	None Detected
		A83582B	Black	Mastic	None Detected
003B		A83583A	Gray	Floor Tile	None Detected
		A83583B	Black	Mastic	None Detected
003C		A83584A	Gray	Floor Tile	None Detected
		A83584B	Black	Mastic	None Detected
004A		A83585A	Beige	Floor Tile	Chrysotile 5%
		A83585B	Black	Mastic	Chrysotile 3%
004B		A83586		Sample Not Analyzed per COC	
004C		A83587		Sample Not Analyzed per COC	
005A		A83588A	White,Blue	Floor Tile	None Detected
		A83588B	Tan	Mastic	None Detected
005B		A83589A	White,Blue	Floor Tile	None Detected
		A83589B	Tan	Mastic	None Detected
005C		A83590A	White,Blue	Floor Tile	None Detected
		A83590B	Tan	Mastic	None Detected
006A		A83591	Silver	Cloth Pipe Wrap	None Detected
006B		A83592	Silver	Cloth Pipe Wrap	None Detected
006C		A83593	Silver	Cloth Pipe Wrap	None Detected
007A		A83594A	Blue	Sheet Flooring	None Detected
		A83594B	Tan	Mastic	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg C **LAB CODE:** A205161

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
		A83594C	Brown	Floor Tile	Chrysotile 5%
		A83594D	Black	Mastic	Chrysotile 3%
007B		A83595		Sample Not Analyzed per COC	
007C		A83596		Sample Not Analyzed per COC	
008A	Layer 1	A83597A	Tan	Mastic	None Detected
	Layer 2	A83597A	Green	Floor Tile	Chrysotile 3%
		A83597B	Black	Mastic	Chrysotile 3%
008B		A83598		Sample Not Analyzed per COC	
008C		A83599		Sample Not Analyzed per COC	
009A		A83600A	Brown	Peg Board Ceiling Tile	None Detected
	Layer 1	A83600B	Brown	Mastic	None Detected
	Layer 2	A83600B	Gray	Cementitious Material	None Detected
009B		A83601A	Brown	Peg Board Ceiling Tile	None Detected
	Layer 1	A83601B	Brown	Mastic	None Detected
	Layer 2	A83601B	Gray	Cementitious Material	None Detected
009C		A83602A	Brown	Peg Board Ceiling Tile	None Detected
	Layer 1	A83602B	Brown	Mastic	None Detected
	Layer 2	A83602B	Gray	Cementitious Material	None Detected
010A		A83603	Gray	Window Glazing	Chrysotile 2%
010B		A83604		Sample Not Analyzed per COC	
010C		A83605		Sample Not Analyzed per COC	
011A		A83606	White	Window Caulking	None Detected
011B		A83607	White	Window Caulking	None Detected
011C		A83608	White	Window Caulking	None Detected
012A		A83609	Brown	Chalk Board Mastic	None Detected
012B		A83610	Brown	Chalk Board Mastic	None Detected
012C		A83611	Brown	Chalk Board Mastic	None Detected
013A		A83612	Tan	Carpet Mastic	None Detected
013B		A83613	Tan	Carpet Mastic	None Detected
013C		A83614	Tan	Carpet Mastic	None Detected
014A		A83615	White	Ceiling Tile	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg C **LAB CODE:** A205161

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
014B		A83616	White	Ceiling Tile	None Detected
014C		A83617	White	Ceiling Tile	None Detected
015A		A83618	Gray	Cementitious Eaves	Chrysotile 20%
015B		A83619		Sample Not Analyzed per COC	
015C		A83620		Sample Not Analyzed per COC	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
001A A83576A	Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 A83576A	Floor Tile	Homogeneous Beige Fibrous Bound		98%	Vinyl	2% Chrysotile
Layer 1 A83576B	Mastic	Homogeneous Black Fibrous Bound		98%	Mastic	2% Chrysotile
Layer 2 A83576B	Leveling Compound	Homogeneous Gray Non-fibrous Bound		75% 25%	Silicates Binder	None Detected
Layer 3 A83576B	Mastic	Homogeneous Black Fibrous Bound		98%	Mastic	2% Chrysotile
001B A83577	Sample Not Analyzed per COC					
001C A83578	Sample Not Analyzed per COC					
002A A83579	Cove Base Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
002B A83580	Cove Base Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
002C A83581	Cove Base Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
003A A83582A	Floor Tile	Homogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected
A83582B	Mastic	Homogeneous Black Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
003B A83583A	Floor Tile	Homogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected
A83583B	Mastic	Homogeneous Black Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
003C A83584A	Floor Tile	Homogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
A83584B	Mastic	Homogeneous Black Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
004A A83585A	Floor Tile	Homogeneous Beige Fibrous Bound			95%	Vinyl	**5% Chrysotile**
A83585B	Mastic	Homogeneous Black Fibrous Bound			97%	Mastic	**3% Chrysotile**
004B A83586	Sample Not Analyzed per COC						
004C A83587	Sample Not Analyzed per COC						
005A A83588A	Floor Tile	Homogeneous White,Blue Non-fibrous Bound			100%	Vinyl	None Detected
A83588B	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
005B A83589A	Floor Tile	Homogeneous White,Blue Non-fibrous Bound			100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
A83589B	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
005C A83590A	Floor Tile	Homogeneous White,Blue Non-fibrous Bound			100%	Vinyl	None Detected
A83590B	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
006A A83591	Cloth Pipe Wrap	Homogeneous Silver Fibrous Bound	70% 15%	Cellulose Fiberglass	13% 2%	Metal Foil Mastic	None Detected
006B A83592	Cloth Pipe Wrap	Homogeneous Silver Fibrous Bound	70% 15%	Cellulose Fiberglass	13% 2%	Metal Foil Mastic	None Detected
006C A83593	Cloth Pipe Wrap	Homogeneous Silver Fibrous Bound	70% 15%	Cellulose Fiberglass	13% 2%	Metal Foil Mastic	None Detected
007A A83594A	Sheet Flooring	Homogeneous Blue Fibrous Bound	25% <1%	Cellulose Fiberglass	70% 5%	Vinyl Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
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Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
A83594B	Mastic	Homogeneous Tan Fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
A83594C	Floor Tile	Homogeneous Brown Fibrous Bound			95%	Vinyl	5% Chrysotile
A83594D	Mastic	Homogeneous Black Fibrous Bound			97%	Mastic	3% Chrysotile
007B A83595	Sample Not Analyzed per COC						
007C A83596	Sample Not Analyzed per COC						
008A Layer 1 A83597A	Mastic	Homogeneous Tan Fibrous Bound			100%	Mastic	None Detected
Layer 2 A83597A	Floor Tile	Homogeneous Green Fibrous Bound			97%	Vinyl	3% Chrysotile
A83597B	Mastic	Homogeneous Black Fibrous Bound			97%	Mastic	3% Chrysotile
008B A83598	Sample Not Analyzed per COC						

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
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Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
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Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
008C A83599	Sample Not Analyzed per COC						
009A A83600A	Peg Board Ceiling Tile	Heterogeneous Brown Fibrous Bound	95%	Cellulose	5%	Paint	None Detected
Layer 1 A83600B	Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 A83600B	Cementitious Material	Heterogeneous Gray Non-fibrous Bound			75% 25%	Silicates Binder	None Detected
009B A83601A	Peg Board Ceiling Tile	Heterogeneous Brown Fibrous Bound	95%	Cellulose	5%	Paint	None Detected
Layer 1 A83601B	Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 A83601B	Cementitious Material	Heterogeneous Gray Non-fibrous Bound			75% 25%	Silicates Binder	None Detected
009C A83602A	Peg Board Ceiling Tile	Heterogeneous Brown Fibrous Bound	95%	Cellulose	5%	Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 1 A83602B	Mastic	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
Layer 2 A83602B	Cementitious Material	Heterogeneous Gray Non-fibrous Bound			75% 25%	Silicates Binder	None Detected
010A A83603	Window Glazing	Heterogeneous Gray Fibrous Bound	<1%	Talc	73% 20% 5%	Binder Calc Carb Paint	**2% Chrysotile**
010B A83604	Sample Not Analyzed per COC						
010C A83605	Sample Not Analyzed per COC						
011A A83606	Window Caulking	Heterogeneous White Fibrous Bound	15%	Talc	60% 20% 5%	Caulk Calc Carb Paint	None Detected
011B A83607	Window Caulking	Heterogeneous White Fibrous Bound	15%	Talc	60% 20% 5%	Caulk Calc Carb Paint	None Detected
011C A83608	Window Caulking	Heterogeneous White Fibrous Bound	15%	Talc	60% 20% 5%	Caulk Calc Carb Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous			Non-Fibrous		ASBESTOS %
012A A83609	Chalk Board Mastic	Heterogeneous Brown Non-fibrous Bound				100%	Mastic	None Detected
012B A83610	Chalk Board Mastic	Heterogeneous Brown Non-fibrous Bound				100%	Mastic	None Detected
012C A83611	Chalk Board Mastic	Heterogeneous Brown Non-fibrous Bound				100%	Mastic	None Detected
013A A83612	Carpet Mastic	Heterogeneous Tan Non-fibrous Bound				100%	Mastic	None Detected
013B A83613	Carpet Mastic	Heterogeneous Tan Non-fibrous Bound				100%	Mastic	None Detected
013C A83614	Carpet Mastic	Heterogeneous Tan Non-fibrous Bound				100%	Mastic	None Detected
014A A83615	Ceiling Tile	Heterogeneous White Fibrous Bound	40% 20%	Cellulose Fiberglass		35% 5%	Perlite Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205161
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg C

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
014B A83616	Ceiling Tile	Heterogeneous White Fibrous Bound	40% 20%	Cellulose Fiberglass	35% 5%	Perlite Paint	None Detected
014C A83617	Ceiling Tile	Heterogeneous White Fibrous Bound	40% 20%	Cellulose Fiberglass	35% 5%	Perlite Paint	None Detected
015A A83618	Cementitious Eaves	Heterogeneous Gray Fibrous Bound			60% 15% 5%	Silicates Binder Paint	**20% Chrysotile**
015B A83619	Sample Not Analyzed per COC						
015C A83620	Sample Not Analyzed per COC						

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Yvette Nkunde-Bose

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

A205161
A83576-
A83620

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CHAIN OF CUSTODY

45

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary Bldg C
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:	☑ Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020	[illegible]	4/24 9:10

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A205161

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg C	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
001A-C	Beige Floor Tile/Black Mastic		PLM ■	TEM ☐
002A-C	Cove Base Mastic		PLM ■	TEM ☐
003A-C	Gray Floor Tile/Black Mastic		PLM ■	TEM ☐
004A-C	Beige Floor Tile/Black Mastic		PLM ■	TEM ☐
005A-C	White,Blue floor Tile/Black Mastic		PLM ■	TEM ☐
006A-C	Cloth Pipe Wra		PLM ■	TEM ☐
007A-C	Blue Speckle Sheet Floor/Tile/Black Masti		PLM ■	TEM ☐
008A-C	Tan Floor Tile/Black Mastic		PLM ■	TEM ☐
009A-C	Peg Board Ceiling Tile/Brown Mastic		PLM ■	TEM ☐
010A-C	Window Glaze		PLM ■	TEM ☐
011A-C	Window Caulk		PLM ■	TEM ☐
012A-C	Chalk Board Mastic		PLM ■	TEM ☐
013A-C	Carpet Mastic		PLM ■	TEM ☐
014A-C	Ceiling Tile		PLM ■	TEM ☐
015A-C	Cementitious Eaves		PLM ■	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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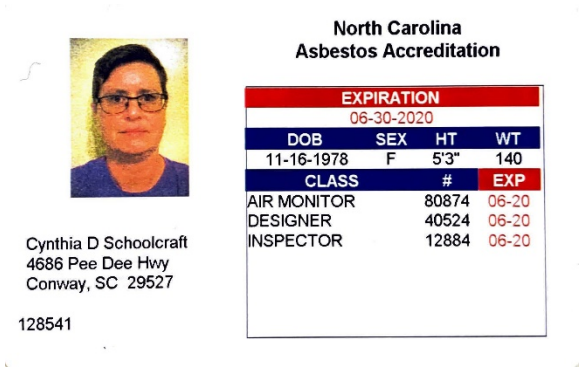
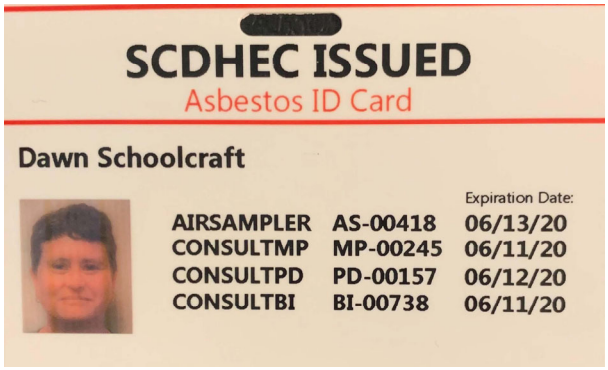
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

APPENDIX 4
License



12884, 06/30/2020, North Carolina, Dawn Schoolcraft



BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

ASBESTOS INSPECTION REPORT
BUILDING D
112 East Foy Street
Richlands, North Carolina
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20-22, 2020
Report Prepared On – May 11, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20-22, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20-22, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 11, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 11, 2020

2.0 COVER LETTER

May 11, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
Building D
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed an Asbestos Assessment and Inspection for Building D located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County Schools requested this assessment for Building D located at 112 East Foy Street, in Richlands, North Carolina. Based on information obtained from you, the structure is scheduled for demolition. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to demolition.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 12,550 square-feet building, constructed on a slab-on-grade foundation, with an EPDM membrane roof. The building is comprised of multiple classrooms, offices, and restrooms. Renovations took place inside the building that appear to have included adding dividing walls to select classroom areas. The exterior consists of a brick veneer with metal framed doors and windows with cementitious eaves that traverse the exterior of the entire building. The interior consists of masonry block walls, select drywall walls, suspended ceiling tile systems, carpet, multiple types of vinyl floor coverings, and terrazzo flooring. Based on information provided, an addition was added to the building. We were able to determine that the east side of the building has a newer suspended ceiling tile over an older ceiling tile that is adhered to a cement type ceiling. However, the west side of the building has a newer suspended ceiling tile system over an older suspended ceiling tile system. It appears that the majority of the original pipe insulation has been removed and replaced with the existing insulation.

Suspect materials sampled and analyzed during this inspection consists of chalk board mastic, multiple types of vinyl floor coverings, carpet mastic, window sill plates, window caulk, multiple types of pipe insulation, multiple types of ceiling tile, terrazzo flooring, drywall with associated joint compound, cementitious eaves, and roofing material.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos** >1% was detected in the following suspect materials collected and analyzed:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
002	9"x9" Green Floor Tile Under Carpet Adhered to Concrete	Select Classrooms	Greater Than 1% Asbestos by Lab	10% Chrysotile	2540 sf
005	Caulk	Interior Window Caulk	Greater Than 1% Asbestos by Lab	2% Chrysotile	50 sf
*007	Elbow	Classroom – Possibly in Other Areas	Greater Than 1% Asbestos by Lab	30% Chrysotile	1 Elbow
009	Black Floor Tile Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab	5% Chrysotile	800 sf
010	Tan Floor Tile and Black Mastic Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab	10% Chrysotile	1570 sf
*020	White Wrap/Insulation	Corner of Classroom	Greater Than 1% Asbestos by Lab	20% Chrysotile	20 lf
022	Black Floor Mastic Under Carpet Tiles Adhered to Concrete	Office	Greater Than 1% Asbestos by Lab	3% Chrysotile	180 sf
024	Caulk	Exterior Windows and Doors	Greater Than 1% Asbestos by Lab	2% Chrysotile	75 sf
026	Cementitious Panels	Exterior Eaves Around Building	Greater Than 1% Asbestos by Lab	15% Chrysotile	1100 sf

*Please know that asbestos containing elbows or insulation/wrap may be present above the ceilings of the classrooms. There are two main pipe runs – the black wrap runs along the west side of the classrooms and the white paper wrap runs along the east side. The ceiling of the west side consists of two drop-down ceiling tile systems and the ceiling of the east side consists of a concrete solid material, making it nearly impossible to observe the pipe runs without demolishing the entire ceiling to expose the piping. Please see Figure 3 for approximate locations of pipe runs. Once the ceilings have been exposed, we should return to determine if there are any additional asbestos containing insulations associated with the piping system.

The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. The above identified floorings are in good condition and can most likely be removed in a non-friable manner. However, asbestos air monitoring will be required for any friable abatement work (i.e. pipe insulation).

A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	Brown Mastic	Chalk Board	2160 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
002	9"x9" Green Floor Tile/Mastic	Classrooms	2540 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
003	Tan Carpet Mastic	Classrooms	6400 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
004	Black Sill Plate	Interior Window	370 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
005	Caulk	Interior Window	50 sf	Miscellaneous	Damaged	Category II Nonfriable	Potential for Significant Damage	4
006	Black Wrap	Pipe	240 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
007	Elbows	Pipe	1 Elbow, Possibly More	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
008	Peg Board Ceiling Tile	Ceiling Tile	7500 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
009	Black Floor Tile	Classrooms	800 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
010	Tan Floor Tile	Classrooms	1570 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
011	Gray Sheet Floor	Classrooms	35 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
012	White/Blue Speckle Floor Tile	Classrooms	1350 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
013	Tan Cove Base Mastic	Ceiling Tile	35 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
014	White Wrap	Pipe	2 sf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
015	Orange Wrap	Pipe	50 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
016	2'x2' White Ceiling Tile	Classrooms	10400 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
017	Terrazzo	Hall	1467 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
018	Brown Mastic	Ceiling Tile	880 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
019	Drywall	Walls	4000 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
020	White Wrap/Insulation	Pipe	20 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
021	White Wrap	Pipe	300 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
022	Black Floor Mastic	Classrooms	180 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
023	Gypsum	Ceiling	55 sf	Miscellaneous	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
024	Caulk	Exterior Window	75 sf	Miscellaneous	Damaged	Category II Nonfriable	Potential for Significant Damage	4
025	Glaze	Exterior Window	382 sf	Miscellaneous	Significantly Damaged	Category II Nonfriable	Potential for Significant Damage	4
026	Cementitious Panels	Eave	1100 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
027	Membrane	Roof	12550 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	Brown Chalk Board Mastic	ND	NA	Tested Negative by Lab	PLM
	Tan Chalk Board Mastic	ND	NA	Tested Negative by Lab	PLM
001B	Brown Chalk Board Mastic	ND	NA	Tested Negative by Lab	PLM
	Tan Chalk Board Mastic	ND	NA	Tested Negative by Lab	PLM
001C	Brown Chalk Board Mastic	ND	NA	Tested Negative by Lab	PLM
	Tan Chalk Board Mastic	ND	NA	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
002A	Yellow Mastic	ND	NA	Tested Negative by Lab	PLM
	9"x9" Green Floor Tile	**10%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Black Mastic	**ND**	**NA**	**Tested Negative by Lab**	**PLM**
002B	Yellow Mastic	--	--	--	--
	9"x9" Green Floor Tile	--	--	--	--
	Black Mastic	--	--	--	--
002C	Yellow Mastic	--	--	--	--
	9"x9" Green Floor Tile	--	--	--	--
	Black Mastic	--	--	--	--
003A	Tan Carpet Mastic	ND	NA	Tested Negative by Lab	PLM
003B	Tan Carpet Mastic	ND	NA	Tested Negative by Lab	PLM
003C	Tan Carpet Mastic	ND	NA	Tested Negative by Lab	PLM
004A	Black Sill Plate	ND	NA	Tested Negative by Lab	PLM
	Grey Mortar	ND	NA	Tested Negative by Lab	PLM
004B	Black Sill Plate	ND	NA	Tested Negative by Lab	PLM
	Grey Mortar	ND	NA	Tested Negative by Lab	PLM
004C	Black Sill Plate	ND	NA	Tested Negative by Lab	PLM
	Grey Mortar	ND	NA	Tested Negative by Lab	PLM
005A	White Window Caulk	ND	NA	Tested Negative by Lab	PLM
	Beige Window Caulk	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
005B	White Window Caulk	--	--	--	--
	Beige Window Caulk	--	--	--	--
005C	White Window Caulk	--	--	--	--
	Beige Window Caulk	--	--	--	--
006A	Black, Silver Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
006B	Black, Silver Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
006C	Black, Silver Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
007A	**Grey Pipe Elbows**	**30%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
007B	**Grey Pipe Elbows**	--	--	--	--
007C	**Grey Pipe Elbows**	--	--	--	--
008A	Off-White Peg Board Ceiling Tile	ND	NA	Tested Negative by Lab	PLM
008B	Off-White Peg Board Ceiling Tile	ND	NA	Tested Negative by Lab	PLM
008C	Off-White Peg Board Ceiling Tile	ND	NA	Tested Negative by Lab	PLM
009A	**Black Floor Tile**	**5%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
	Tan, Yellow Mastic	ND	NA	Tested Negative by Lab	PLM
009B	**Black Floor Tile**	--	--	--	--
	Tan, Yellow Mastic	--	--	--	--
009C	**Black Floor Tile**	--	--	--	--
	Tan, Yellow Mastic	--	--	--	--
010A	Tan Carpet Mastic	ND	NA	Tested Negative by Lab	PLM
	Tan Floor Tile	**10%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
010B	**Tan Carpet Mastic**	--	--	--	--
	Tan Floor Tile	--	--	--	--
010C	Tan Carpet Mastic	--	--	--	--
	Tan Floor Tile	--	--	--	--
011A	Gray Sheet Floor	ND	NA	Tested Negative by Lab	PLM
	Yellow Mastic	ND	NA	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
011B	Gray Sheet Floor	ND	NA	Tested Negative by Lab	PLM
	Yellow Mastic	ND	NA	Tested Negative by Lab	PLM
011C	Gray Sheet Floor	ND	NA	Tested Negative by Lab	PLM
	Yellow Mastic	ND	NA	Tested Negative by Lab	PLM
012A	White/Blue Speckle Floor Tile	ND	NA	Tested Negative by Lab	PLM
012B	White/Blue Speckle Floor Tile	ND	NA	Tested Negative by Lab	PLM
012C	White/Blue Speckle Floor Tile	ND	NA	Tested Negative by Lab	PLM
013A	Tan, Grey Cove Base Mastic	ND	NA	Tested Negative by Lab	PLM
013B	Tan, Grey Cove Base Mastic	ND	NA	Tested Negative by Lab	PLM
013C	Tan, Grey Cove Base Mastic	ND	NA	Tested Negative by Lab	PLM
014A	White Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
014B	White Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
014C	White Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
015A	Orange Wrap	ND	NA	Tested Negative by Lab	PLM
015B	Orange Wrap	ND	NA	Tested Negative by Lab	PLM
015C	Orange Wrap	ND	NA	Tested Negative by Lab	PLM
016A	2'x2' White Ceiling Tile	ND	NA	Tested Negative by Lab	PLM
016B	2'x2' White Ceiling Tile	ND	NA	Tested Negative by Lab	PLM
016C	2'x2' White Ceiling Tile	ND	NA	Tested Negative by Lab	PLM
017A	Grey, Red Terrazzo Flooring	ND	NA	Tested Negative by Lab	PLM
017B	Grey, Red Terrazzo Flooring	ND	NA	Tested Negative by Lab	PLM
017C	Grey, Red Terrazzo Flooring	ND	NA	Tested Negative by Lab	PLM
018A	Brown Ceiling Tile Mastic	ND	NA	Tested Negative by Lab	PLM
018B	Brown Ceiling Tile Mastic	ND	NA	Tested Negative by Lab	PLM
018C	Brown Ceiling Tile Mastic	ND	NA	Tested Negative by Lab	PLM
019A	White Joint Compound	ND	NA	Tested Negative by Lab	PLM
	Grey Drywall	ND	NA	Tested Negative by Lab	PLM
019B	White Joint Compound	ND	NA	Tested Negative by Lab	PLM
	Grey Drywall	ND	NA	Tested Negative by Lab	PLM
019C	White Joint Compound	ND	NA	Tested Negative by Lab	PLM
	Grey Drywall	ND	NA	Tested Negative by Lab	PLM
019D	White Joint Compound	ND	NA	Tested Negative by Lab	PLM
	Grey Drywall	ND	NA	Tested Negative by Lab	PLM
019E	White Joint Compound	ND	NA	Tested Negative by Lab	PLM
	Grey Drywall	ND	NA	Tested Negative by Lab	PLM
020A	**Off-White, Grey Pipe Wrap/Insulation**	**20%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
020B	**Off-White, Grey Pipe Wrap/Insulation**	**--**	**--**	**--**	**--**
020C	**Off-White, Grey Pipe Wrap/Insulation**	**--**	**--**	**--**	**--**
021A	Off-White, Silver Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
021B	Off-White, Silver Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
021C	Off-White, Silver Pipe Wrap	ND	NA	Tested Negative by Lab	PLM
022A	**Black Floor Mastic**	**3%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
022B	**Black Floor Mastic**	**--**	**--**	**--**	**--**
022C	**Black Floor Mastic**	**--**	**--**	**--**	**--**
023A	Gypsum	ND	NA	Tested Negative by Lab	PLM
023B	Gypsum	ND	NA	Tested Negative by Lab	PLM
023C	Gypsum	ND	NA	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
024A	**Off-White Window Caulk**	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
024B	**Off-White Window Caulk**	**--**	**--**	**--**	**--**
024C	**Off-White Window Caulk**	**--**	**--**	**--**	**--**
025A	Grey, Off-White Window Glazing	ND	NA	Tested Negative by Lab	PLM
025B	Grey, Off-White Window Glazing	ND	NA	Tested Negative by Lab	PLM
025C	Grey, Off-White Window Glazing	ND	NA	Tested Negative by Lab	PLM
026A	**Grey Cementitious Panels Eaves**	**15%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab (ACM)**	**PLM**
026B	**Grey Cementitious Panels Eaves**	**--**	**--**	**--**	**--**
026C	**Grey Cementitious Panels Eaves**	**--**	**--**	**--**	**--**
027A	Black Roof Membrane	ND	NA	Tested Negative by Lab	PLM
	Brown Insulation	ND	NA	Tested Negative by Lab	PLM
	Grey Gypsum Board	ND	NA	Tested Negative by Lab	PLM
027B	Black Roof Membrane	ND	NA	Tested Negative by Lab	PLM
	Brown Insulation	ND	NA	Tested Negative by Lab	PLM
	Grey Gypsum Board	ND	NA	Tested Negative by Lab	PLM
027C	Black Roof Membrane	ND	NA	Tested Negative by Lab	PLM
	Brown Insulation	ND	NA	Tested Negative by Lab	PLM
	Grey Gypsum Board	ND	NA	Tested Negative by Lab	PLM

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan, sample location plan, and asbestos location plans are identified as Figures 1 thru 3 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos** >1 % was detected in the following suspect materials sampled and analyzed for Building D located at 112 East Foy Street, in Richlands, North Carolina:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
002	9"x9" Green Floor Tile Under Carpet Adhered to Concrete	Select Classrooms	Greater Than 1% Asbestos by Lab	10% Chrysotile	2540 sf
005	Caulk	Interior Window Caulk	Greater Than 1% Asbestos by Lab	2% Chrysotile	50 sf

*007	Elbow	Classroom – Possibly in Other Areas	Greater Than 1% Asbestos by Lab	30% Chrysotile	1 Elbow
009	Black Floor Tile Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab	5% Chrysotile	800 sf
010	Tan Floor Tile and Black Mastic Under Carpet Adhered to Concrete	Classrooms	Greater Than 1% Asbestos by Lab	10% Chrysotile	1570 sf
*020	White Wrap/Insulation	Corner of Classroom	Greater Than 1% Asbestos by Lab	20% Chrysotile	20 lf
022	Black Floor Mastic Under Carpet Tiles Adhered to Concrete	Office	Greater Than 1% Asbestos by Lab	3% Chrysotile	180 sf
024	Caulk	Exterior Windows and Doors	Greater Than 1% Asbestos by Lab	2% Chrysotile	75 sf
026	Cementitious Panels	Exterior Eaves Around Building	Greater Than 1% Asbestos by Lab	15% Chrysotile	1100 sf

*Please know that asbestos containing elbows or insulation/wrap may be present above the ceilings of the classrooms. There are two main pipe runs – the black wrap runs along the west side of the classrooms and the white paper wrap runs along the east side. The ceiling of the west side consists of two drop-down ceiling tile systems and the ceiling of the east side consists of a concrete solid material, making it nearly impossible to observe the pipe runs without demolishing the entire ceiling to expose the piping. Please see Figure 3 for approximate locations of pipe runs. Once the ceilings have been exposed, we should return to determine if there are any additional asbestos containing insulations associated with the piping system.

The above identified ACMs should be removed by a properly licensed asbestos abatement contractor prior to demolition. The above identified floorings are in good condition and can most likely be removed in a non-friable manner. However, asbestos air monitoring will be required for any friable abatement work (i.e. pipe insulation).

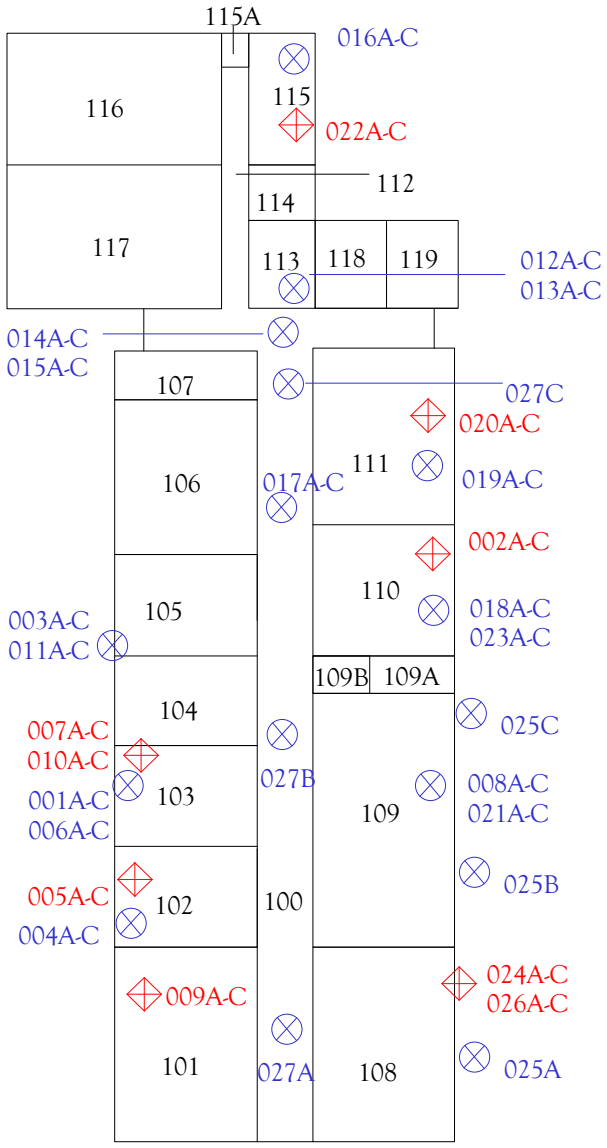
A copy of this report along with an abatement and demolition application should be submitted to NC DHHS at least 10 working days prior to any abatement and/or demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not

included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan and Sample Location Plan

	Site Location Plan Richlands Elementary School Building D Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**

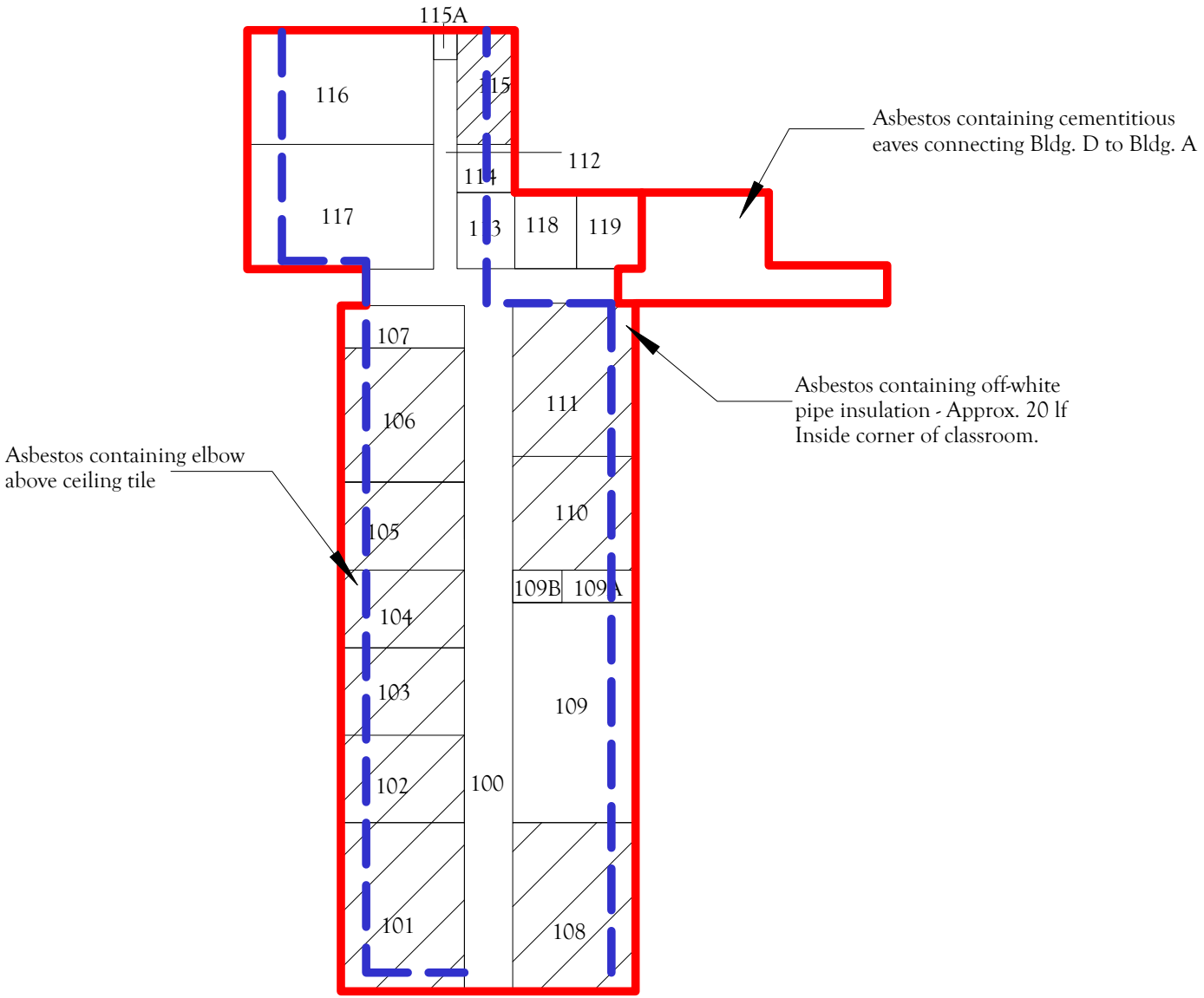


LEGEND

⊗ Sample Location

◈ Asbestos Containing Sample Location

	Asbestos Sample Location Plan Richlands Elementary School Building D Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**



LEGEND

Asbestos containing floor tile and/or mastic - Approx. 5090 sf total

Asbestos containing cementitious eaves - Approx. 1100 sf

Approximate location of pipe runs. The ceilings should be removed to help determine if asbestos containing pipe elbows and/or insulation is present in the inaccesible areas.

Notes: Asbestos was detected in the interior and exterior window/door caulk for all windows and exterior doors - Approx. 125 sf total

	Asbestos Location Plan Richlands Elementary School Building D Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 3**

APPENDIX 2
Photographs

Site Photos

Chalk Board, Building D

Classrooms , Building D


Classrooms , Building D


Classrooms , Building D


Classrooms , Building D


Classrooms , Building D

Classrooms , Building D

Classrooms , Building D

Classrooms , Building D

Interior Window, Building D

Pipe, Building D

Pipe, Building D

Pipe, Building D

Pipe, Building D

Pipe, Building D

Hall, Building D

Hall, Building D

Hall, Building D

Eave, Building D

Eave, Building D

Eave, Building D

Exterior, Building D

Exterior, Building D

APPENDIX 3
Laboratory Results

eurofins | CEI

May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary Bldg D
CEI LAB CODE: A205162

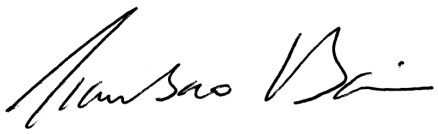
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary Bldg D

LAB CODE: A205162

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 65

SAMPLES >1% ASBESTOS: 10

eurofins | CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg D **LAB CODE:** A205162

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A	Layer 1	A83621	Brown	Chalk Board Mastic	None Detected
	Layer 2	A83621	Tan	Chalk Board Mastic	None Detected
001B	Layer 1	A83622	Brown	Chalk Board Mastic	None Detected
	Layer 2	A83622	Tan	Chalk Board Mastic	None Detected
001C	Layer 1	A83623	Brown	Chalk Board Mastic	None Detected
	Layer 2	A83623	Tan	Chalk Board Mastic	None Detected
002A	Layer 1	A83624A	Yellow	Mastic	None Detected
	Layer 2	A83624A	Green	Floor Tile	Chrysotile 10%
		A83624B	Black	Mastic	None Detected
002B		A83625		Sample Not Analyzed per COC	
002C		A83626		Sample Not Analyzed per COC	
003A		A83627	Tan	Carpet Mastic	None Detected
003B		A83628	Tan	Carpet Mastic	None Detected
003C		A83629	Tan	Carpet Mastic	None Detected
004A	Layer 1	A83630	Black,Gray	Window Sill	None Detected
	Layer 2	A83630	Gray	Mortar	None Detected
004B		A83631	Black,Gray	Window Sill	None Detected
004C		A83632	Black,Gray	Window Sill	None Detected
005A	Layer 1	A83633	White	Window Caulking	None Detected
	Layer 2	A83633	Beige	Window Caulking	Chrysotile 2%
005B		A83634		Sample Not Analyzed per COC	
005C		A83635		Sample Not Analyzed per COC	
006A		A83636	Black,Silver	Pipe Wrap	None Detected
006B		A83637	Black,Silver	Pipe Wrap	None Detected
006C		A83638	Black,Silver	Pipe Wrap	None Detected
007A		A83639	Gray	Pipe Elbow	Chrysotile 30%
007B		A83640		Sample Not Analyzed per COC	
007C		A83641		Sample Not Analyzed per COC	
008A		A83642	Off-white	Ceiling Tile	None Detected
008B		A83643	Off-white	Ceiling Tile	None Detected
008C		A83644	Off-white	Ceiling Tile	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg D **LAB CODE:** A205162

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
009A		A83645A	Black	Floor Tile	Chrysotile 5%
		A83645B	Tan,Yellow	Mastic	None Detected
009B		A83646		Sample Not Analyzed per COC	
009C		A83647		Sample Not Analyzed per COC	
010A	Layer 1	A83648A	Tan	Carpet Mastic	None Detected
	Layer 2	A83648A	Tan	Floor Tile	Chrysotile 10%
		A83648B	Black	Mastic	Chrysotile 7%
010B		A83649		Sample Not Analyzed per COC	
010C		A83650		Sample Not Analyzed per COC	
011A		A83651A	Gray	Sheet Flooring	None Detected
		A83651B	Yellow	Mastic	None Detected
011B		A83652A	Gray	Sheet Flooring	None Detected
		A83652B	Yellow	Mastic	None Detected
011C		A83653A	Gray	Sheet Flooring	None Detected
		A83653B	Yellow	Mastic	None Detected
012A		A83654A	Off-white	Floor Tile	None Detected
		A83654B	Yellow	Mastic	None Detected
012B		A83655A	Off-white	Floor Tile	None Detected
		A83655B	Yellow	Mastic	None Detected
012C		A83656A	Off-white	Floor Tile	None Detected
		A83656B	Yellow	Mastic	None Detected
013A		A83657	Tan,Gray	Covebase Mastic	None Detected
013B		A83658	Tan,Gray	Covebase Mastic	None Detected
013C		A83659	Tan,Gray	Covebase Mastic	None Detected
014A		A83660	White	Pipe Wrap	None Detected
014B		A83661	White	Pipe Wrap	None Detected
014C		A83662	White	Pipe Wrap	None Detected
015A		A83663	Orange,Off-white	Pipe Wrap	None Detected
015B		A83664	Orange,Off-white	Pipe Wrap	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg D **LAB CODE:** A205162

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
015C		A83665	Orange,Off-white	Pipe Wrap	None Detected
016A		A83666	White	Ceiling Tile	None Detected
016B		A83667	White	Ceiling Tile	None Detected
016C		A83668	White	Ceiling Tile	None Detected
017A		A83669	Gray,Red	Terrazzo Flooring	None Detected
017B		A83670	Gray,Red	Terrazzo Flooring	None Detected
017C		A83671	Gray,Red	Terrazzo Flooring	None Detected
018A		A83672	Brown	Ceiling Tile Mastic	None Detected
018B		A83673	Brown	Ceiling Tile Mastic	None Detected
018C		A83674	Brown	Ceiling Tile Mastic	None Detected
019A	Layer 1	A83675	White	Joint Compound	None Detected
	Layer 2	A83675	Gray	Drywall	None Detected
019B	Layer 1	A83676	White	Joint Compound	None Detected
	Layer 2	A83676	Gray	Drywall	None Detected
019C	Layer 1	A83677	White	Joint Compound	None Detected
	Layer 2	A83677	Gray	Drywall	None Detected
019D	Layer 1	A83678	White	Joint Compound	None Detected
	Layer 2	A83678	Gray	Drywall	None Detected
019E	Layer 1	A83679	White	Joint Compound	None Detected
	Layer 2	A83679	Gray	Drywall	None Detected
020A		A83680	Off-white,Gray	Pipe Insulation	Chrysotile 20%
020B		A83681		Sample Not Analyzed per COC	
020C		A83682		Sample Not Analyzed per COC	
021A		A83683	Off-white,Silver	Pipe Wrap	None Detected
021B		A83684	Off-white,Silver	Pipe Wrap	None Detected
021C		A83685	Off-white,Silver	Pipe Wrap	None Detected
022A		A83686	Black	Floor Mastic	Chrysotile 3%
022B		A83687		Sample Not Analyzed per COC	
022C		A83688		Sample Not Analyzed per COC	
023A		A83689	Gray	Ceiling Gypsum	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg D **LAB CODE:** A205162

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
023B		A83690	Gray	Ceiling Gypsum	None Detected
023C		A83691	Gray	Ceiling Gypsum	None Detected
024A		A83692	Off-white	Window Caulking	Chrysotile 2%
024B		A83693		Sample Not Analyzed per COC	
024C		A83694		Sample Not Analyzed per COC	
025A		A83695	Gray,Off-white	Window Glazing	None Detected
025B		A83696	Gray,Off-white	Window Glazing	None Detected
025C		A83697	Gray,Off-white	Window Glazing	None Detected
026A		A83698	Gray	Cementitious Eaves	Chrysotile 15%
026B		A83699		Sample Not Analyzed per COC	
026C		A83700		Sample Not Analyzed per COC	
027A	Layer 1	A83701	Black	Roof Membrane	None Detected
	Layer 2	A83701	Brown	Insulation	None Detected
	Layer 3	A83701	Gray	Gypsum Board	None Detected
027B	Layer 1	A83702	Black	Roof Membrane	None Detected
	Layer 2	A83702	Brown	Insulation	None Detected
	Layer 3	A83702	Gray	Gypsum Board	None Detected
027C	Layer 1	A83703	Black	Roof Membrane	None Detected
	Layer 2	A83703	Brown	Insulation	None Detected
	Layer 3	A83703	Gray	Gypsum Board	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205162
Date Received: 04-24-20
Date Analyzed: 04-29-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
001A Layer 1 A83621	Chalk Board Mastic	Homogeneous Brown Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 A83621	Chalk Board Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
001B Layer 1 A83622	Chalk Board Mastic	Homogeneous Brown Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 A83622	Chalk Board Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
001C Layer 1 A83623	Chalk Board Mastic	Homogeneous Brown Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 A83623	Chalk Board Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
002A Layer 1 A83624A	Mastic	Homogeneous Yellow Non-fibrous Bound		100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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Client: Asbestos Inspections LLC
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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
Layer 2 A83624A	Floor Tile	Homogeneous Green Fibrous Bound	90%	Vinyl	**10% Chrysotile**
A83624B	Mastic	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
002B A83625	Sample Not Analyzed per COC				
002C A83626	Sample Not Analyzed per COC				
003A A83627	Carpet Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
003B A83628	Carpet Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
003C A83629	Carpet Mastic	Homogeneous Tan Non-fibrous Bound	100%	Mastic	None Detected
004A Layer 1 A83630	Window Sill	Heterogeneous Black,Gray Non-fibrous Bound	2% 98%	Paint Silicates	None Detected

ASBESTOS BULK ANALYSIS

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83630	Mortar	Homogeneous Gray Non-fibrous Bound			35% 65%	Binder Silicates	None Detected
004B A83631	Window Sill	Heterogeneous Black,Gray Non-fibrous Bound			2% 98%	Paint Silicates	None Detected
004C A83632	Window Sill	Heterogeneous Black,Gray Non-fibrous Bound			2% 98%	Paint Silicates	None Detected
005A Layer 1 A83633	Window Caulking	Heterogeneous White Non-fibrous Bound			5% 95%	Paint Caulk	None Detected
Layer 2 A83633	Window Caulking	Heterogeneous Beige Non-fibrous Bound			5% 75% 18%	Paint Binder Calc Carb	**2% Chrysotile**
005B A83634	Sample Not Analyzed per COC						
005C A83635	Sample Not Analyzed per COC						
006A A83636	Pipe Wrap	Heterogeneous Black,Silver Fibrous Bound	30%	Cellulose	30% 40%	Tar Metal Foil	None Detected

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
006B A83637	Pipe Wrap	Heterogeneous Black,Silver Fibrous Bound	30%	Cellulose	30% 40%	Tar Metal Foil	None Detected
006C A83638	Pipe Wrap	Heterogeneous Black,Silver Fibrous Bound	30%	Cellulose	30% 40%	Tar Metal Foil	None Detected
007A A83639	Pipe Elbow	Homogeneous Gray Fibrous Bound			60% 10%	Binder Calc Carb	**30% Chrysotile**
007B A83640	Sample Not Analyzed per COC						
007C A83641	Sample Not Analyzed per COC						
008A A83642	Ceiling Tile	Heterogeneous Off-white Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
008B A83643	Ceiling Tile	Heterogeneous Off-white Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
008C A83644	Ceiling Tile	Heterogeneous Off-white Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
009A A83645A	Floor Tile	Homogeneous Black Non-fibrous Bound		95%	Vinyl	**5% Chrysotile**
A83645B	Mastic	Homogeneous Tan,Yellow Non-fibrous Bound		100%	Mastic	None Detected
009B A83646	Sample Not Analyzed per COC					
009C A83647	Sample Not Analyzed per COC					
010A Layer 1 A83648A	Carpet Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 A83648A	Floor Tile	Homogeneous Tan Fibrous Bound		90%	Vinyl	**10% Chrysotile**
A83648B	Mastic	Homogeneous Black Non-fibrous Bound		93%	Mastic	**7% Chrysotile**
010B A83649	Sample Not Analyzed per COC					
010C A83650	Sample Not Analyzed per COC					

ASBESTOS BULK ANALYSIS

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
011A A83651A	Sheet Flooring	Heterogeneous Gray Fibrous Bound	30% 5%	Cellulose Fiberglass	30% 35%	Vinyl Foam	None Detected
A83651B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
011B A83652A	Sheet Flooring	Heterogeneous Gray Fibrous Bound	30% 5%	Cellulose Fiberglass	30% 35%	Vinyl Foam	None Detected
A83652B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
011C A83653A	Sheet Flooring	Heterogeneous Gray Fibrous Bound	30% 5%	Cellulose Fiberglass	30% 35%	Vinyl Foam	None Detected
A83653B	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
012A A83654A	Floor Tile	Homogeneous Off-white Non-fibrous Bound			100%	Vinyl	None Detected

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
A83654B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
012B A83655A	Floor Tile	Homogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A83655B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
012C A83656A	Floor Tile	Homogeneous Off-white Non-fibrous Bound	100%	Vinyl	None Detected
A83656B	Mastic	Homogeneous Yellow Non-fibrous Bound	100%	Mastic	None Detected
013A A83657	Covebase Mastic	Homogeneous Tan,Gray Non-fibrous Bound	100%	Mastic	None Detected
013B A83658	Covebase Mastic	Homogeneous Tan,Gray Non-fibrous Bound	100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
013C A83659	Covebase Mastic	Homogeneous Tan,Gray Non-fibrous Bound			100%	Mastic	None Detected
014A A83660	Pipe Wrap	Homogeneous White Fibrous Loosely Bound	98%	Fiberglass	2%	Binder	None Detected
014B A83661	Pipe Wrap	Homogeneous White Fibrous Loosely Bound	98%	Fiberglass	2%	Binder	None Detected
014C A83662	Pipe Wrap	Homogeneous White Fibrous Loosely Bound	98%	Fiberglass	2%	Binder	None Detected
015A A83663	Pipe Wrap	Heterogeneous Orange,Off-white Fibrous Bound	30% 60%	Fiberglass Cellulose	10%	Paint	None Detected
015B A83664	Pipe Wrap	Heterogeneous Orange,Off-white Fibrous Bound	30% 60%	Fiberglass Cellulose	10%	Paint	None Detected
015C A83665	Pipe Wrap	Heterogeneous Orange,Off-white Fibrous Bound	30% 60%	Fiberglass Cellulose	10%	Paint	None Detected

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
016A A83666	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	50% 25%	Fiberglass Cellulose	5% 20%	Paint Perlite	None Detected
016B A83667	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	50% 25%	Fiberglass Cellulose	5% 20%	Paint Perlite	None Detected
016C A83668	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	50% 25%	Fiberglass Cellulose	5% 20%	Paint Perlite	None Detected
017A A83669	Terrazzo Flooring	Heterogeneous Gray,Red Non-fibrous Tightly Bound			40% 60%	Binder Silicates	None Detected
017B A83670	Terrazzo Flooring	Heterogeneous Gray,Red Non-fibrous Tightly Bound			40% 60%	Binder Silicates	None Detected
017C A83671	Terrazzo Flooring	Heterogeneous Gray,Red Non-fibrous Tightly Bound			40% 60%	Binder Silicates	None Detected
018A A83672	Ceiling Tile Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
018B A83673	Ceiling Tile Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
018C A83674	Ceiling Tile Mastic	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
019A Layer 1 A83675	Joint Compound	Heterogeneous White Non-fibrous Loosely Bound			15% 65% 20%	Paint Calc Carb Binder	None Detected
Layer 2 A83675	Drywall	Heterogeneous Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
019B Layer 1 A83676	Joint Compound	Heterogeneous White Non-fibrous Loosely Bound			15% 65% 20%	Paint Calc Carb Binder	None Detected
Layer 2 A83676	Drywall	Heterogeneous Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
019C Layer 1 A83677	Joint Compound	Heterogeneous White Non-fibrous Loosely Bound			15% 65% 20%	Paint Calc Carb Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83677	Drywall	Heterogeneous Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
019D Layer 1 A83678	Joint Compound	Heterogeneous White Non-fibrous Loosely Bound			15% 65% 20%	Paint Calc Carb Binder	None Detected
Layer 2 A83678	Drywall	Heterogeneous Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
019E Layer 1 A83679	Joint Compound	Heterogeneous White Non-fibrous Loosely Bound			15% 65% 20%	Paint Calc Carb Binder	None Detected
Layer 2 A83679	Drywall	Heterogeneous Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
020A A83680	Pipe Insulation	Heterogeneous Off-white,Gray Fibrous Loosely Bound	10% 20%	Cellulose Fiberglass	50%	Binder	**20% Chrysotile**
020B A83681	Sample Not Analyzed per COC						
020C A83682	Sample Not Analyzed per COC						

ASBESTOS BULK ANALYSIS

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Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
021A A83683	Pipe Wrap	Heterogeneous Off-white,Silver Fibrous Bound	30% 15%	Cellulose Fiberglass	50% 5%	Metal Foil Mastic	None Detected
021B A83684	Pipe Wrap	Heterogeneous Off-white,Silver Fibrous Bound	30% 15%	Cellulose Fiberglass	50% 5%	Metal Foil Mastic	None Detected
021C A83685	Pipe Wrap	Heterogeneous Off-white,Silver Fibrous Bound	30% 15%	Cellulose Fiberglass	50% 5%	Metal Foil Mastic	None Detected
022A A83686	Floor Mastic	Heterogeneous Black Non-fibrous Bound			97%	Mastic	**3% Chrysotile**
022B A83687	Sample Not Analyzed per COC						
022C A83688	Sample Not Analyzed per COC						
023A A83689	Ceiling Gypsum	Homogeneous Gray Non-fibrous Bound			45% 35% 20%	Binder Vermiculite Silicates	None Detected
023B A83690	Ceiling Gypsum	Homogeneous Gray Non-fibrous Bound			45% 35% 20%	Binder Vermiculite Silicates	None Detected

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
023C A83691	Ceiling Gypsum	Homogeneous Gray Non-fibrous Bound	45% 35% 20%	Binder Vermiculite Silicates	None Detected
024A A83692	Window Caulking	Heterogeneous Off-white Fibrous Bound	10% 70% 18%	Paint Binder Calc Carb	**2% Chrysotile**
024B A83693	Sample Not Analyzed per COC				
024C A83694	Sample Not Analyzed per COC				
025A A83695	Window Glazing	Homogeneous Gray,Off-white Non-fibrous Bound	75% 15% 10%	Binder Gypsum Silicates	None Detected
025B A83696	Window Glazing	Homogeneous Gray,Off-white Non-fibrous Bound	75% 15% 10%	Binder Gypsum Silicates	None Detected
025C A83697	Window Glazing	Homogeneous Gray,Off-white Non-fibrous Bound	75% 15% 10%	Binder Gypsum Silicates	None Detected
026A A83698	Cementitious Eaves	Homogeneous Gray Fibrous Bound	60% 25%	Binder Silicates	**15% Chrysotile**
026B A83699	Sample Not Analyzed per COC				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205162
Date Received: 04-24-20
Date Analyzed: 04-29-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
026C A83700	Sample Not Analyzed per COC						
027A Layer 1 A83701	Roof Membrane	Heterogeneous Black Non-fibrous Bound			95% 5%	Rubber Mastic	None Detected
Layer 2 A83701	Insulation	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose			None Detected
Layer 3 A83701	Gypsum Board	Homogeneous Gray Fibrous Loosely Bound	15%	Cellulose	85%	Gypsum	None Detected
027B Layer 1 A83702	Roof Membrane	Heterogeneous Black Non-fibrous Bound			95% 5%	Rubber Mastic	None Detected
Layer 2 A83702	Insulation	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose			None Detected
Layer 3 A83702	Gypsum Board	Homogeneous Gray Fibrous Loosely Bound	15%	Cellulose	85%	Gypsum	None Detected
027C Layer 1 A83703	Roof Membrane	Heterogeneous Black Non-fibrous Bound			95% 5%	Rubber Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205162
Date Received: 04-24-20
Date Analyzed: 04-29-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg D

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83703	Insulation	Homogeneous Brown Fibrous Loosely Bound	100%	Cellulose			None Detected
Layer 3 A83703	Gypsum Board	Homogeneous Gray Fibrous Loosely Bound	15%	Cellulose	85%	Gypsum	None Detected

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Danielle Carrier

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

A205162

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CHAIN OF CUSTODY

A63621-A63703

(83)

730 SE Maynard Road, Cary, NC 275[illegible]
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary Bldg D
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 60[illegible]	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 60[illegible]		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:	👍 Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020	[illegible]	4/24 9:10

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Page _____ of _____

Version: CCOC.07.18.1/3.LD

A205162

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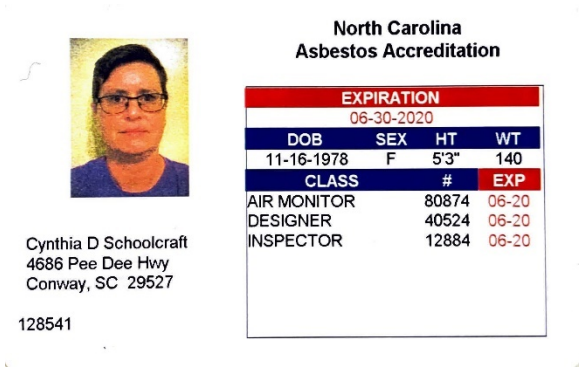
SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg D	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
001A-C	Brown Chalk Board Mastic		PLM ■	TEM ☐
002A-C	Green Floor Tile/Black Mastic		PLM ■	TEM ☐
003A-C	Tan Carpet Mastic		PLM ■	TEM ☐
004A-C	Window Sill Plate		PLM ■	TEM ☐
005A-C	White Interior Window Caulk		PLM ■	TEM ☐
006A-C	Black Pipe Wrap		PLM ■	TEM ☐
007A-C	Pipe Elbows		PLM ■	TEM ☐
008A-C	Peg Board Ceiling Tile		PLM ■	TEM ☐
009A-C	Black Floor Tile/Tan Mastic		PLM ■	TEM ☐
010A-C	Tan Tile/Black Mastic		PLM ■	TEM ☐
011A-C	Gray Sheet Floor/Tan Mastic		PLM ■	TEM ☐
012A-C	White,Blue Speckled Sheet Floor		PLM ■	TEM ☐
013A-C	Tan Cove Base Mastic		PLM ■	TEM ☐
014A-C	White Pipe Wrap Around Hangar		PLM ■	TEM ☐
015A-C	Orange Pipe Wrap		PLM ■	TEM ☐
016A-C	Coarse Fissured Ceiling Tile		PLM ■	TEM ☐
017A-C	Terazzo Flooring		PLM ■	TEM ☐
018A-C	Ceiling Tile Mastic		PLM ■	TEM ☐
019A-E	Drywall/Joint Compound		PLM ■	TEM ☐
020A-C	TSI Pipe Wrap Insulation		PLM ■	TEM ☐
021A-C	Pipe Wrap		PLM ■	TEM ☐
022A-C	Black Floor Mastic		PLM ■	TEM ☐
023A-C	Ceiling Gypsum		PLM ■	TEM ☐
024A-C	Window Caulk		PLM ■	TEM ☐
025A-C	Window Glaze		PLM ■	TEM ☐
026A-C	Cementitious Eaves		PLM ■	TEM ☐
027A-C	Black Roof Membrane/Gypsum		PLM ■	TEM ☐
			PLM ☐	TEM ☐

APPENDIX 4
License



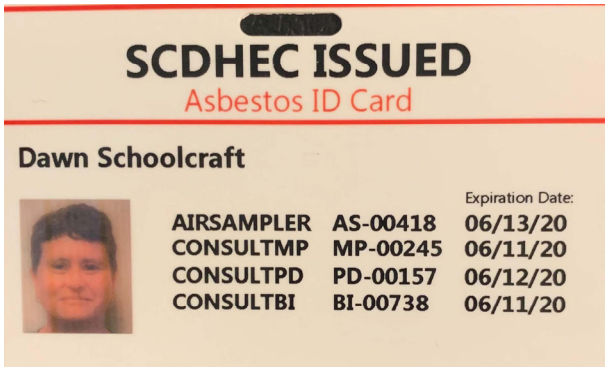
North Carolina
Asbestos Accreditation

Cynthia D Schoolcraft
4686 Pee Dee Hwy
Conway, SC 29527

128541

EXPIRATION			
06-30-2020			
DOB	SEX	HT	WT
11-16-1978	F	5'3"	140
CLASS		#	EXP
AIR MONITOR		80874	06-20
DESIGNER		40524	06-20
INSPECTOR		12884	06-20

12884, 06/30/2020, North Carolina, Dawn Schoolcraft



SCDHEC ISSUED
Asbestos ID Card

Dawn Schoolcraft

Expiration Date:

AIRSAMPLER	AS-00418	06/13/20
CONSULTMP	MP-00245	06/11/20
CONSULTPD	PD-00157	06/12/20
CONSULTBI	BI-00738	06/11/20

BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

ACAC

American Council for Accredited Certification

hereby certifies that

Cynthia "Dawn" Schoolcraft

has met all the specific standards and qualifications of the certification process and is hereby certified as a

CIEC

Council-certified
Indoor Environmental Consultant

This certificate expires on September 30, 2021.

Charles F. Wiles, Executive Director

1909008
Certificate Number

This certificate remains the property of the American Council for Accredited Certification.

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

United States Environmental Protection Agency

This is to certify that

Cynthia D Schoolcraft

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 16, 2021

LBP-R-I162035-1
Certification #

March 02, 2018
Issued On

Adrienne Priselac, Manager, Toxics Office
Land Division

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

ASBESTOS INSPECTION REPORT
BUILDING E
112 East Foy Street
Richlands, North Carolina
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20-22, 2020
Report Prepared On – May 8, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20-22, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 08, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 08, 2020

2.0 COVER LETTER

May 08, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
Building E – Old Media Center
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed an Asbestos Assessment and Inspection for Building E (Old Media Center) located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20-22, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County School requested this assessment for Building E (Old Media Center) located at 112 East Foy Street, in Richlands, North Carolina. Based on information obtained from you, the structure is scheduled for demolition. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to demolition.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 2,368 square-feet building, constructed on a slab-on-grade foundation, with an asphalt built-up roofing system. The building is comprised of multiple classrooms, teacher area, storage room, and restroom. Renovations took place inside the building that appear to have included adding dividing walls to the right side of the building creating the existing classrooms. The exterior consists of a brick veneer with metal framed doors and windows. The interior consists of drywall walls, suspended ceiling tile system, carpet, and vinyl floor tile in the bathroom.

Suspect materials sampled and analyzed during this inspection consists of carpet mastic, drywall with associated joint compound, vinyl floor tile with associated mastic, vinyl cove base mastic, ceiling tile, and asphalt built-up roof.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **Asbestos** >1% was detected in the following suspect materials collected and analyzed:

Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
004	Black, Yellow Mastic Associated with 12"x12" White Floor Tile Adhered to Concrete	Bathroom	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	50 sf

The above identified ACMs should be removed prior to demolition. A copy of this report along with a demolition application should be submitted to NC DHHS at least 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	Tan Carpet Mastic	Throughout	2300 sf	Miscellaneous	Good (No Damage)	Category I Nonfriable	Potential for Significant Damage	6
002	Drywall / Joint Compound	Walls on Left Side of Bldg.	3400 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
003	Drywall / Joint Compound	Walls on Right Side of Bldg.	2300 sf	Surfacing Material	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
004	**12"x12" White Floor Tile / Mastic**	**Bathroom**	**50 sf**	**Miscellaneous**	**Good (No Damage)**	**Category I Nonfriable**	**Potential for Significant Damage**	**6**

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
005	Mastic	Vinyl Cove Base Throughout	25 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6
006	Tar	Roof	2368 sf	Miscellaneous	Good (No Damage)	Category II Nonfriable	Potential for Significant Damage	6

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	Yellow/Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
001B	Yellow/Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
001C	Yellow/Tan Carpet Mastic	ND	N/A	Tested Negative by Lab	PLM
002A	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
002B	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
002C	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
002D	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
002E	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
003A	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
003B	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
003C	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
003D	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
003E	White Joint Compound	ND	N/A	Tested Negative by Lab	PLM
	Off-White Brown Drywall	ND	N/A	Tested Negative by Lab	PLM
004A	12"x12" White Floor Tile	ND	N/A	Tested Negative by Lab	PLM
	Black, Yellow Mastic	**2%**	**Chrysotile**	**Greater Than 1% Asbestos by Lab**	**PLM**
004B	12"x12" White Floor Tile	--	--	--	--
	Black, Yellow Mastic	--	--	--	--
004C	12"x12" White Floor Tile	--	--	--	--
	Black, Yellow Mastic	--	--	--	--
005A	Tan Vinyl Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
005B	Tan Vinyl Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
005C	Tan Vinyl Cove Base Mastic	ND	N/A	Tested Negative by Lab	PLM
006A	Black Roof Tar	ND	N/A	Tested Negative by Lab	PLM
006B	Black Roof Tar	ND	N/A	Tested Negative by Lab	PLM
006C	Black Roof Tar	ND	N/A	Tested Negative by Lab	PLM

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan and sample location plan is identified as Figures 1 and 2 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **Asbestos** >1 % was detected in the following suspect materials sampled and analyzed for Building E (Old Media Center) located at 112 East Foy Street, in Richlands, North Carolina:

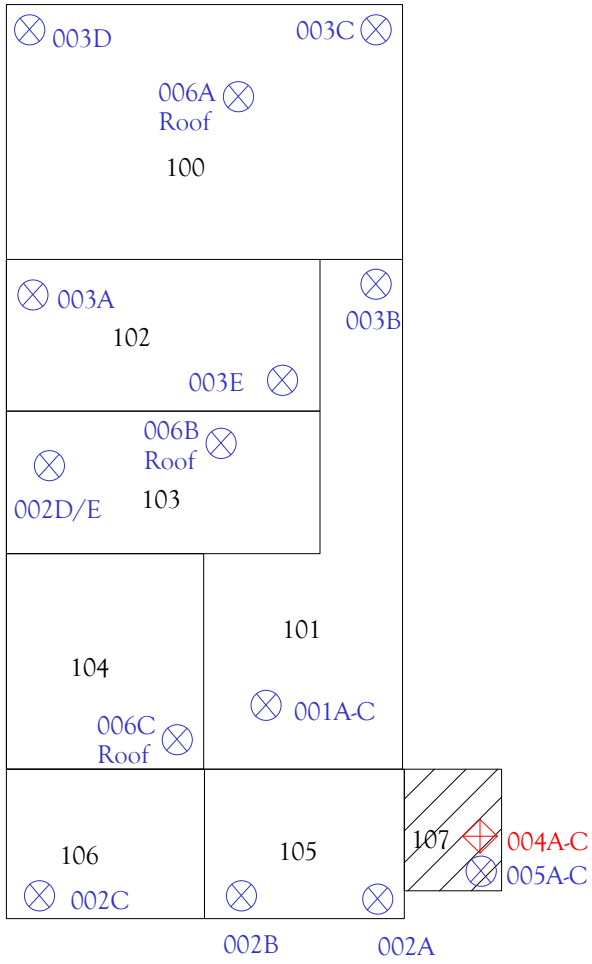
Material ID	Material	Location	Regulatory Result	Highest Analytical Result	Est. Quantity
004	Black, Yellow Mastic Associated with 12"x12" White Floor Tile Adhered to Concrete	Bathroom	Greater Than 1% Asbestos by Lab (ACM)	2% Chrysotile	50 sf

The above identified ACMs should be removed prior to demolition. A copy of this report along with a demolition application should be submitted to NC DHHS at least 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan and Sample Location Plan

	Site Location Plan Richlands Elementary School Building E Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**



	Asbestos Sample Location Plan Richlands Elementary School Bld E Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**

LEGEND

- Sample Location
- Asbestos Containing Sample Location
- Asbestos containing black mastic associated with white floor tile in bathroom - Approx. 50 sf

APPENDIX 2
Photographs

Site Photos

Interior, Building E

Interior, Building E Bathroom

Interior, Building E

Interior, Building E

Interior, Building E

Interior, Building E

Interior, Building E

Interior, Building E

Exterior, Building E

Roof, Building E

Roof, Building E

APPENDIX 3
Laboratory Results

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May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary Bldg E
CEI LAB CODE: A205159

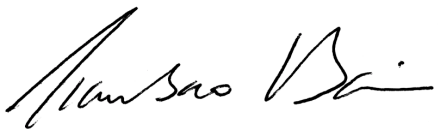
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary Bldg E

LAB CODE: A205159

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 20

SAMPLES >1% ASBESTOS: 1

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg E **LAB CODE:** A205159

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A83553	Yellow	Carpet Mastic	None Detected
001B		A83554	Yellow	Carpet Mastic	None Detected
001C		A83555	Yellow	Carpet Mastic	None Detected
002A	Layer 1	A83556	White	Joint Compound	None Detected
	Layer 2	A83556	Off-white,Brown	Drywall	None Detected
002B	Layer 1	A83557	White	Joint Compound	None Detected
	Layer 2	A83557	Off-white,Brown	Drywall	None Detected
002C	Layer 1	A83558	White	Joint Compound	None Detected
	Layer 2	A83558	Off-white,Brown	Drywall	None Detected
002D	Layer 1	A83559	White	Joint Compound	None Detected
	Layer 2	A83559	Off-white,Brown	Drywall	None Detected
002E	Layer 1	A83560	White	Joint Compound	None Detected
	Layer 2	A83560	Off-white,Brown	Drywall	None Detected
003A	Layer 1	A83561	White	Joint Compound	None Detected
	Layer 2	A83561	Off-white,Brown	Drywall	None Detected
003B	Layer 1	A83562A	White	Joint Compound	None Detected
	Layer 2	A83562A	Off-white,Brown	Drywall	None Detected
		A83562B	Tan	Ceiling Tile	None Detected
003C	Layer 1	A83563	White	Joint Compound	None Detected
	Layer 2	A83563	Off-white,Brown	Drywall	None Detected
003D	Layer 1	A83564	White	Joint Compound	None Detected
	Layer 2	A83564	Off-white,Brown	Drywall	None Detected
003E	Layer 1	A83565	White	Joint Compound	None Detected
	Layer 2	A83565	Off-white,Brown	Drywall	None Detected
004A		A83566A	White	Floor Tile	None Detected
		A83566B	Black,Yellow	Mastic	Chrysotile 2%
004B		A83567		Sample Not Analyzed per COC	
004C		A83568		Sample Not Analyzed per COC	
005A		A83569	Tan	Mastic	None Detected
005B		A83570	Tan	Mastic	None Detected
005C		A83571	Tan	Mastic	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg E **LAB CODE:** A205159

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
006A		A83572	Black	Roof Tar	None Detected
006B		A83573	Black	Roof Tar	None Detected
006C		A83574	Black	Roof Tar	None Detected

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205159
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg E

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
001A A83553	Carpet Mastic	Homogeneous Yellow Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100%	Mastic	None Detected
001B A83554	Carpet Mastic	Homogeneous Yellow Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100%	Mastic	None Detected
001C A83555	Carpet Mastic	Homogeneous Yellow Non-fibrous Bound	<1% <1%	Cellulose Synthetic Fiber	100%	Mastic	None Detected
002A Layer 1 A83556	Joint Compound	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	55% 40% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A83556	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
002B Layer 1 A83557	Joint Compound	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	55% 40% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A83557	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205159
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg E

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
002C	Joint Compound	Heterogeneous	<1%	Cellulose	55%	Binder	None Detected
Layer 1		White			40%	Calc Carb	
A83558		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
A83558		Off-white,Brown					
		Fibrous					
		Bound					
002D	Joint Compound	Heterogeneous	<1%	Cellulose	55%	Binder	None Detected
Layer 1		White			40%	Calc Carb	
A83559		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
A83559		Off-white,Brown					
		Fibrous					
		Bound					
002E	Joint Compound	Heterogeneous	<1%	Cellulose	55%	Binder	None Detected
Layer 1		White			40%	Calc Carb	
A83560		Non-fibrous			5%	Paint	
		Bound					
Layer 2	Drywall	Heterogeneous	20%	Cellulose	80%	Gypsum	None Detected
A83560		Off-white,Brown					
		Fibrous					
		Bound					
003A	Joint Compound	Heterogeneous	<1%	Cellulose	55%	Binder	None Detected
Layer 1		White			40%	Calc Carb	
A83561		Non-fibrous			5%	Paint	
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205159
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg E

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83561	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
003B Layer 1 A83562A	Joint Compound	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	55% 40% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A83562A	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
A83562B	Ceiling Tile	Homogeneous Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	20%	Perlite	None Detected
003C Layer 1 A83563	Joint Compound	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	55% 40% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A83563	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
003D Layer 1 A83564	Joint Compound	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	55% 40% 5%	Binder Calc Carb Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205159
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg E

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83564	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
003E Layer 1 A83565	Joint Compound	Heterogeneous White Non-fibrous Bound	<1%	Cellulose	55% 40% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A83565	Drywall	Heterogeneous Off-white,Brown Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
004A A83566A	Floor Tile	Homogeneous White Non-fibrous Tightly Bound			100%	Vinyl	None Detected
A83566B	Mastic	Homogeneous Black,Yellow Non-fibrous Bound			48% 50% <1%	Tar Mastic Binder	**2% Chrysotile**
Lab Notes: Unable to separate mastics for individual analysis.							
004B A83567	Sample Not Analyzed per COC						
004C A83568	Sample Not Analyzed per COC						
005A A83569	Mastic	Homogeneous Tan Non-fibrous Bound			100% <1%	Mastic Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205159
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg E

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
005B A83570	Mastic	Homogeneous Tan Non-fibrous Bound			100% <1%	Mastic Binder	None Detected
005C A83571	Mastic	Homogeneous Tan Non-fibrous Bound			100% <1%	Mastic Binder	None Detected
006A A83572	Roof Tar	Heterogeneous Black Fibrous Bound	45%	Cellulose	55%	Tar	None Detected
006B A83573	Roof Tar	Heterogeneous Black Fibrous Bound	45%	Cellulose	55%	Tar	None Detected
006C A83574	Roof Tar	Heterogeneous Black Fibrous Bound	45%	Cellulose	55%	Tar	None Detected

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Kathryn Wescott
Kathryn Wescott

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
ECEI Lab Code:	A20S159
ECEI Lab I.D. Range:	A 83553 - A 83574

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COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary Bldg E
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:

☐ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020	[illegible]	4/24 9:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: CCOC.07.18.1/3.LD

A205159

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg E	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
001A-C	Carpet Mastic		PLM ☒	TEM ☐
002A-E	Drywall/Joint Compound		PLM ☒	TEM ☐
003A-E	Drywall/Joint Compound		PLM ☒	TEM ☐
004A-C	White Floor Tile/Black Mastic		PLM ☒	TEM ☐
005A-C	Tan Cove Base Mastic		PLM ☒	TEM ☐
006A-C	Tar Roof		PLM ☒	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

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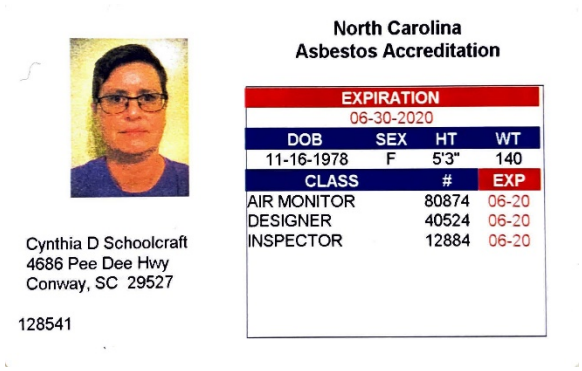
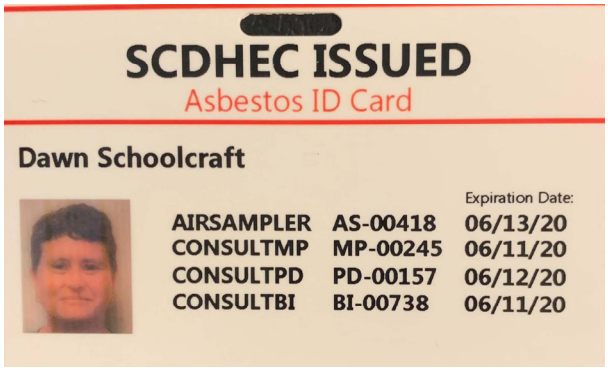
APPENDIX 4
License



12884, 06/30/2020, North Carolina, Dawn Schoolcraft



BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

ASBESTOS INSPECTION REPORT
BUILDING F
112 East Foy Street
Richlands, North Carolina
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20, 2020
Report Prepared On – May 8, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20-22, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 08, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 08, 2020

2.0 COVER LETTER

May 08, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
Building F - Boiler Building
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed an Asbestos Assessment and Inspection for Building F (Boiler Building) located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20-22, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County Schools requested this assessment for Building F (Boiler Building) located at 112 East Foy Street, in Richlands, North Carolina. Based on information obtained, the structure is scheduled for demolition. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to demolition.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 701 square-feet building, constructed on a slab-on-grade foundation, with an EPDM membrane roof. The building houses a central boiler system that appears to supply multiple buildings. The exterior consists of a brick veneer with metal framed doors and no windows. The interior consists of a plaster ceiling, masonry block walls, unfinished concrete floor, large boiler system with associated piping.

Suspect materials sampled and analyzed during this inspection consists of plaster ceiling, drywall ceiling that the plaster is adhered to, multiple types of pipe insulation, and the roof system.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **No asbestos** >1% was detected in the suspect materials collected and analyzed.

Material ID	Material	Regulatory Result	Highest Analytical Result	Est. Quantity
There are no homogenous materials for this project that have tested positive containing asbestos				

A copy of this report along with a demolition application should be submitted to NC DHHS at least 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	White Woven Textile	Pipe Wrap	25 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
002	Tan/Orange Cloth	Pipe Wrap	200 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
003	White Cloth	Pipe Wrap	100 lf	Thermal System Insulation (TSI)	Good (No Damage)	Friable (RACM)	Potential for Significant Damage	6
004	Unfinished Drywall	Ceiling	701 sf	Miscellaneous	Damaged	Friable (RACM)	Potential for Significant Damage	4
005	Plaster Skim/Base Coat	Ceiling	701 sf	Surfacing Material	Damaged	Friable (RACM)	Potential for Significant Damage	2
006	Membrane	Roof	701 sf	Miscellaneous	Damaged	Category I Nonfriable	Potential for Significant Damage	4

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	White Woven Textile	ND	N/A	Tested Negative by Lab	PLM
001B	Woven Textile	ND	N/A	Tested Negative by Lab	PLM
001C	Woven Textile	ND	N/A	Tested Negative by Lab	PLM
002A	Orange Cloth	ND	N/A	Tested Negative by Lab	PLM
002B	Orange Cloth	ND	N/A	Tested Negative by Lab	PLM
002C	Orange Cloth	ND	N/A	Tested Negative by Lab	PLM
003A	White Cloth	ND	N/A	Tested Negative by Lab	PLM

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
003B	White Cloth	ND	N/A	Tested Negative by Lab	PLM
003C	White Cloth	ND	N/A	Tested Negative by Lab	PLM
004A	White Unfinished Drywall	ND	N/A	Tested Negative by Lab	PLM
004B	White Unfinished Drywall	ND	N/A	Tested Negative by Lab	PLM
004C	White Unfinished Drywall	ND	N/A	Tested Negative by Lab	PLM
005A	Tan Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Gray Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005B	Tan Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Gray Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005C	Tan Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Gray Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005D	Tan Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Gray Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
005E	Tan Plaster Skim Coat	ND	N/A	Tested Negative by Lab	PLM
	Gray Plaster Base Coat	ND	N/A	Tested Negative by Lab	PLM
006A	Black Membrane Roof	ND	N/A	Tested Negative by Lab	PLM
006B	Black Membrane Roof	ND	N/A	Tested Negative by Lab	PLM
006C	Black Membrane Roof	ND	N/A	Tested Negative by Lab	PLM

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan and sample location plan is identified as Figures 1 and 2 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **No asbestos** >1 % was detected in the suspect materials sampled and analyzed for Building F (Boiler Building) located at 112 East Foy Street, in Richlands, North Carolina.

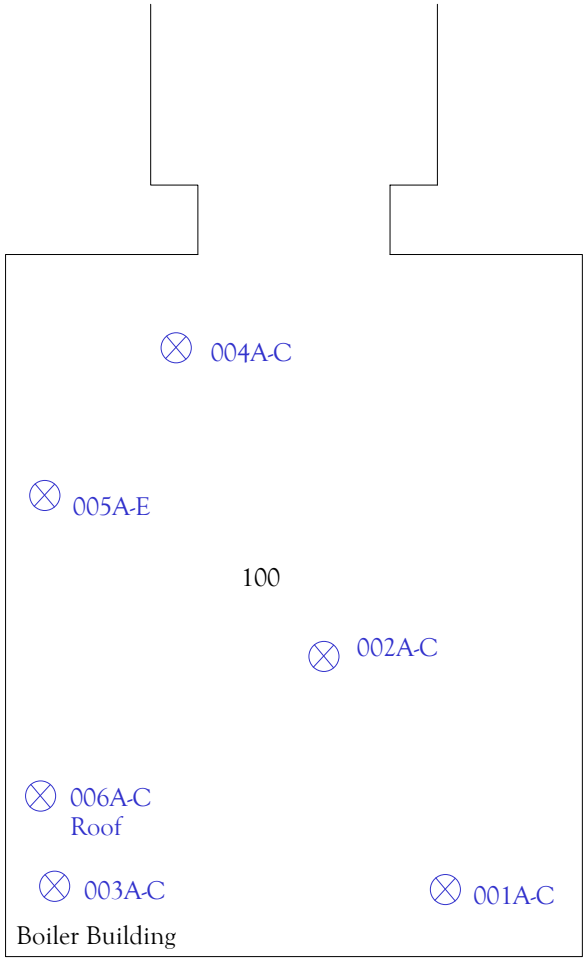
Material ID	Material	Regulatory Result	Highest Analytical Result	Est. Quantity
There are no homogenous materials for this project that have tested positive containing asbestos				

A copy of this report along with a demolition application should be submitted to NC DHHS at least 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan and Sample Location Plan

	Site Location Plan Richlands Elementary School Building F Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**



	Asbestos Sample Location Plan Richlands Elementary School Building F Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**

LEGEND

⊗ Sample Location

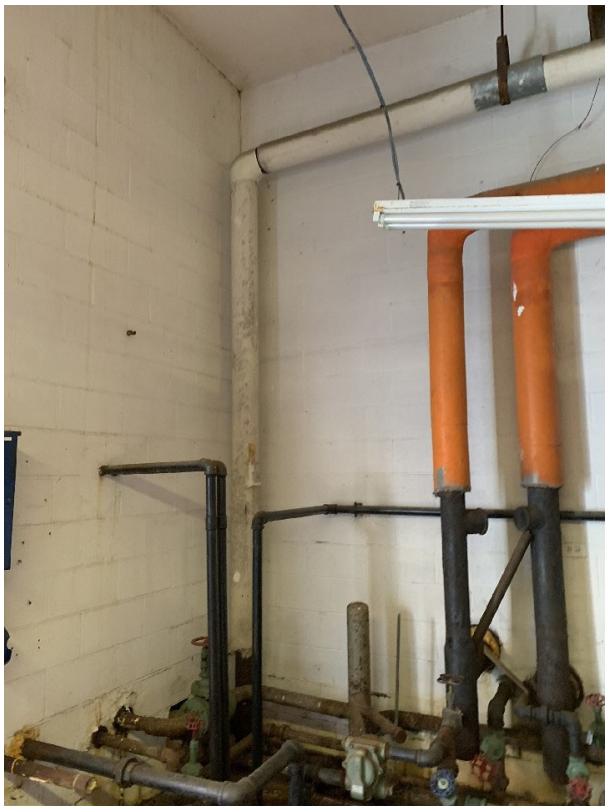
◈ Asbestos Containing Sample Location

Notes:

APPENDIX 2
Photographs

Site Photos

Pipe Wrap, Building F



Pipe Wrap, Building F

Pipe Wrap, Building F

Ceiling, Building F

Ceiling, Building F

Roof, Building F

Roof, Building F

Exterior , Building F

Exterior , Building F

Exterior , Building F

APPENDIX 3
Laboratory Results

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May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary Bldg F
CEI LAB CODE: A205158

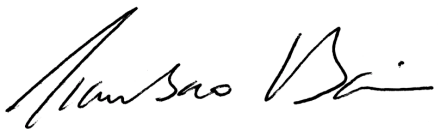
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary Bldg F

LAB CODE: A205158

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 20

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary Bldg F **LAB CODE:** A205158

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A83533	White	Woven Textile Pipe Wrap	None Detected
001B		A83534	White	Woven Textile Pipe Wrap	None Detected
001C		A83535	White	Woven Textile Pipe Wrap	None Detected
002A		A83536	Tan,Orange	Cloth Pipe Wrap	None Detected
002B		A83537	Tan,Orange	Cloth Pipe Wrap	None Detected
002C		A83538	Orange	Cloth Pipe Wrap	None Detected
003A		A83539	White	Cloth Pipe Wrap	None Detected
003B		A83540	White	Cloth Pipe Wrap	None Detected
003C		A83541	White	Cloth Pipe Wrap	None Detected
004A		A83542	White	Drywall	None Detected
004B		A83543	White	Drywall	None Detected
004C		A83544	White	Drywall	None Detected
005A	Layer 1	A83545	Tan	Plaster Skim Coat	None Detected
	Layer 2	A83545	Gray	Plaster Base Coat	None Detected
005B	Layer 1	A83546	Tan	Plaster Skim Coat	None Detected
	Layer 2	A83546	Gray	Plaster Base Coat	None Detected
005C	Layer 1	A83547	Tan	Plaster Skim Coat	None Detected
	Layer 2	A83547	Gray	Plaster Base Coat	None Detected
005D	Layer 1	A83548	Tan	Plaster Skim Coat	None Detected
	Layer 2	A83548	Gray	Plaster Base Coat	None Detected
005E	Layer 1	A83549	Tan	Plaster Skim Coat	None Detected
	Layer 2	A83549	Gray	Plaster Base Coat	None Detected
006A		A83550	Black	Membrane Roof	None Detected
006B		A83551	Black	Membrane Roof	None Detected
006C		A83552	Black	Membrane Roof	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205158
Date Received: 04-24-20
Date Analyzed: 05-01-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg F

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
001A A83533	Woven Textile Pipe Wrap	Homogeneous White Fibrous Bound	80%	Fiberglass	15% 5%	Binder Paint	None Detected
001B A83534	Woven Textile Pipe Wrap	Homogeneous White Fibrous Bound	80%	Fiberglass	15% 5%	Binder Paint	None Detected
001C A83535	Woven Textile Pipe Wrap	Homogeneous White Fibrous Bound	80%	Fiberglass	15% 5%	Binder Paint	None Detected
002A A83536	Cloth Pipe Wrap	Homogeneous Tan,Orange Fibrous Bound	80%	Cellulose	15% 5%	Paint Binder	None Detected
002B A83537	Cloth Pipe Wrap	Homogeneous Tan,Orange Fibrous Bound	80%	Cellulose	15% 5%	Paint Binder	None Detected
002C A83538	Cloth Pipe Wrap	Homogeneous Orange Fibrous Bound	80%	Cellulose	15% 5%	Paint Binder	None Detected
003A A83539	Cloth Pipe Wrap	Homogeneous White Fibrous Bound	90%	Cellulose	10%	Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205158
Date Received: 04-24-20
Date Analyzed: 05-01-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg F

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
003B A83540	Cloth Pipe Wrap	Homogeneous White Fibrous Bound	80% 5%	Cellulose Fiberglass	10% 5%	Binder Metal Foil	None Detected
003C A83541	Cloth Pipe Wrap	Homogeneous White Fibrous Bound	80% 5%	Cellulose Fiberglass	10% 5%	Binder Metal Foil	None Detected
004A A83542	Drywall	Homogeneous White Fibrous Bound	10%	Cellulose	75% 15%	Gypsum Binder	None Detected
004B A83543	Drywall	Homogeneous White Fibrous Bound	10%	Cellulose	75% 15%	Gypsum Binder	None Detected
004C A83544	Drywall	Homogeneous White Fibrous Bound	10%	Cellulose	75% 15%	Gypsum Binder	None Detected
005A Layer 1 A83545	Plaster Skim Coat	Homogeneous Tan Non-fibrous Bound			80% 18% 2%	Silicates Binder Paint	None Detected
Layer 2 A83545	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound			70% 20% 10%	Silicates Binder Foam	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205158
Date Received: 04-24-20
Date Analyzed: 05-01-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg F

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
005B	Plaster Skim Coat	Homogeneous	80%	Silicates		None Detected
Layer 1		Tan	18%	Binder		
A83546		Non-fibrous	2%	Paint		
		Bound				
Layer 2	Plaster Base Coat	Homogeneous	70%	Silicates		None Detected
A83546		Gray	20%	Binder		
		Non-fibrous	10%	Foam		
		Bound				
005C	Plaster Skim Coat	Homogeneous	80%	Silicates		None Detected
Layer 1		Tan	18%	Binder		
A83547		Non-fibrous	2%	Paint		
		Bound				
Layer 2	Plaster Base Coat	Homogeneous	70%	Silicates		None Detected
A83547		Gray	20%	Binder		
		Non-fibrous	10%	Foam		
		Bound				
005D	Plaster Skim Coat	Homogeneous	80%	Silicates		None Detected
Layer 1		Tan	18%	Binder		
A83548		Non-fibrous	2%	Paint		
		Bound				
Layer 2	Plaster Base Coat	Homogeneous	70%	Silicates		None Detected
A83548		Gray	20%	Binder		
		Non-fibrous	10%	Foam		
		Bound				
005E	Plaster Skim Coat	Homogeneous	80%	Silicates		None Detected
Layer 1		Tan	18%	Binder		
A83549		Non-fibrous	2%	Paint		
		Bound				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205158
Date Received: 04-24-20
Date Analyzed: 05-01-20
Date Reported: 05-01-20

Project: Richlands Elementary Bldg F

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A83549	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound			70% 20% 10%	Silicates Binder Foam	None Detected
006A A83550	Membrane Roof	Homogeneous Black Fibrous Bound	10%	Cellulose	85% 5%	Rubber Binder	None Detected
006B A83551	Membrane Roof	Homogeneous Black Fibrous Bound	10%	Cellulose	85% 5%	Rubber Binder	None Detected
006C A83552	Membrane Roof	Homogeneous Black Fibrous Bound	10%	Cellulose	85% 5%	Rubber Binder	None Detected

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Michael Hoxie
Michael Hoxie

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

A205158 A 83533-A6355 2

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

20

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary Bldg F
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020	[illegible]	4/24 9:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Page _____ of _____

Version: CCOC.07.18.1/3.LD

A205158

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary Bldg F	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
001A-C	Woven Textile Pipe Wrap		PLM	■	TEM	☐
002A-C	Orange Cloth Pipe Wrap		PLM	■	TEM	☐
003A-C	White Cloth Pipe Wrap		PLM	■	TEM	☐
004A-C	Drywall		PLM	■	TEM	☐
005A-E	Plaster Skim Coat/Base Coat		PLM	■	TEM	☐
006A-C	Rubber Membrane Roof		PLM	■	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
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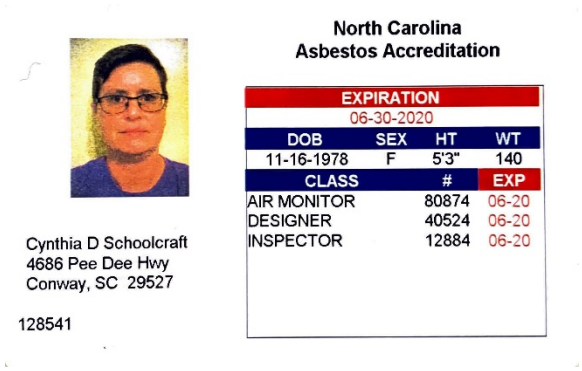
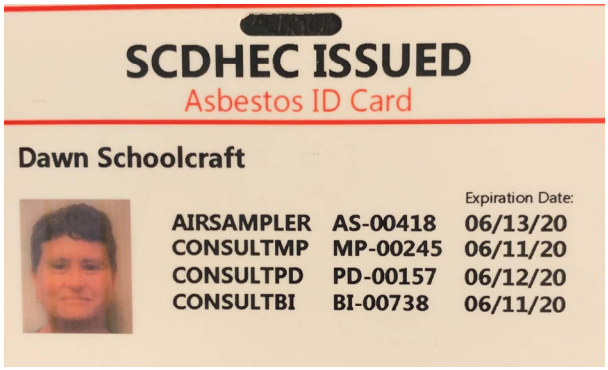
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐

Page _______ of _______

APPENDIX 4
License



12884, 06/30/2020, North Carolina, Dawn Schoolcraft



BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

ASBESTOS INSPECTION REPORT
PE BUILDING
112 East Foy Street
Richlands, North Carolina
Asbestos Inspections, LLC Project # 2020-01-122
Performed in general accordance with NC DHHS along with OSHA regulation 29 CFR 1926

Assessment Completed by:

Asbestos Inspections, LLC
4686 Pee Dee Highway
Conway, South Carolina 29527
(843) 995-5197

Dawn Schoolcraft
NC DHHS ID# 12884

Assessment Completed For:

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Inspection Completed On – April 20-22, 2020
Report Prepared On – May 6, 2020

TABLE OF CONTENTS

1.0 SIGNATURE PAGE

This report has been performed at the request of Onslow County Schools. The inspection was conducted by Dawn Schoolcraft with Asbestos Inspections, LLC on April 20, 2020. The report was prepared and reviewed by the undersigned inspector

Inspection Performed by:	NCDHHS#	Signature	Date
Dawn Schoolcraft	12884	Dawn Schoolcraft	April 20-22, 2020
Report Prepared by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 06, 2020
Report Reviewed by:			
Dawn Schoolcraft	12884	Dawn Schoolcraft	May 06, 2020

2.0 COVER LETTER

May 06, 2020

Onslow County Schools
P.O. Box 99
200 Broadhurst Road
Jacksonville, North Carolina 28541

Subject:
Asbestos Inspection Report
112 East Foy Street
Richlands, North Carolina 28574
Asbestos Inspections, LLC Project # 2020-01-122

Asbestos Inspections, LLC has completed an Asbestos Assessment and Inspection for the PE Building located at 112 East Foy Street, in Richlands, North Carolina. The inspection was completed on April 20-22, 2020 by a North Carolina Department of Health and Human Services (NC DHHS) building inspector.

The following report summarizes the project background, assessment procedures, results, and conclusions. The results presented in this report are indicative of conditions during the time of the inspection and of the specific areas outlined. The information provided in this report should not be used as a bidding document and field conditions should be verified. Should suspect building materials, not included within this report, be identified or impacted during the destructive activities, bulk samples must be collected and analyzed for asbestos content.

I appreciate this opportunity to provide my services. Should you have any questions concerning this report, please contact me at (843) 995-5197.

Sincerely,

Dawn Schoolcraft

Dawn Schoolcraft
Asbestos Building Inspector (NC DHHS ID#12884)

3.0 EXECUTIVE SUMMARY

1.1 Scope and Purpose

Onslow County Schools requested this assessment for the PE Building located at 112 East Foy Street in Richlands, North Carolina. Based on information obtained, the structure is scheduled for demolition. The purpose of this assessment was to identify asbestos containing materials (ACMs) prior to demolition.

The inspection was completed in accordance with procedures specified in NC DHHS Asbestos Rules along with Occupational Safety and Health Administration (OSHA) regulation 29 Code of the Federal Regulations (CFR) 1926. The representative bulk samples collected were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory which is administered by the National Institute of Standards and Technology (NIST). This report has been prepared in accordance with Environmental Protection Agency (EPA) 40 CFR, 763.85(a)(4).

2.1 Facility Conditions

The subject structure consists of an approximately 1,880 square-feet building, constructed on a crawl-space foundation, with a sheet metal roof. The building appears to have last been used as a possible art class. There are two classrooms with a front teachers desk/foyer area as you enter the building. The exterior consists of wood lap siding with wood framed windows and doors. The interior consists of wood walls, floors, and ceilings throughout.

Suspect materials sampled and analyzed during this inspection consists of the window glazing only. No other suspect materials were identified as the building is mostly a wood structure.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, underneath or behind contents of units, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during demolition, bulk samples should be collected and analyzed for asbestos content.

3.1 Findings and Conclusions

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is identified in a representative sample. **No asbestos** >1% was detected in the suspect materials collected and analyzed.

Material ID	Material	Regulatory Result	Highest Analytical Result	Est. Quantity
There are no homogenous materials for this project that have tested positive containing asbestos				

A copy of this report along with a demolition application should be submitted to NC DHHS at least 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The results presented in this report are indicative of conditions during the time of the assessment. The information provided in this report should not be used as a bidding document and field conditions and quantities should be verified.

4.0 ASBESTOS ASSESSMENT DATA

The assessment was performed by observing and sampling suspect ACMs in the unit prior to the scheduled renovations. Representative bulk samples were then extracted, recorded on a chain of custody, and submitted to Eurofins/CEI Labs of Cary, North Carolina for laboratory analysis. The samples were tested via Polarized Light Microscopy (PLM).

The following tables exhibits the suspect material sampled, location, quantity of material sampled, condition of material, potential for future disturbance, laboratory test method, and laboratory result for each sample collected.

Materials by Location

Material Id	Material	Space Name	Quantity	Material Category	Current Condition	Friability	Damage Potential	Physical Assessment Category
001	Glaze	Exterior Window	5 sf	Miscellaneous	Significantly Damaged	Category II Nonfriable	Potential for Significant Damage	4

Sample Results

Sample #	Material	%	Mineral Type	Regulatory Result	Analysis Type
001A	White Glaze	ND	N/A	Tested Negative by Lab	PLM
001B	White Glaze	ND	N/A	Tested Negative by Lab	PLM
001C	White Glaze	ND	N/A	Tested Negative by Lab	PLM

Please understand that quantities are estimated and should not be used for bidding purposes. Field conditions should be verified prior to bidding.

Site location plan and sample location plan is identified as Figures 1 and 2 in Appendix 1 of this report, photographs are in Appendix 2, laboratory results are in Appendix 3, and license is in Appendix 4.

5.0 CONCLUSIONS

The EPA and NC DHHS define materials as asbestos containing if an asbestos content >1% is detected in a representative sample. **No asbestos** >1 % was detected in the suspect materials sampled and analyzed for the PE Building located at 112 East Foy Street in Richlands, North Carolina.

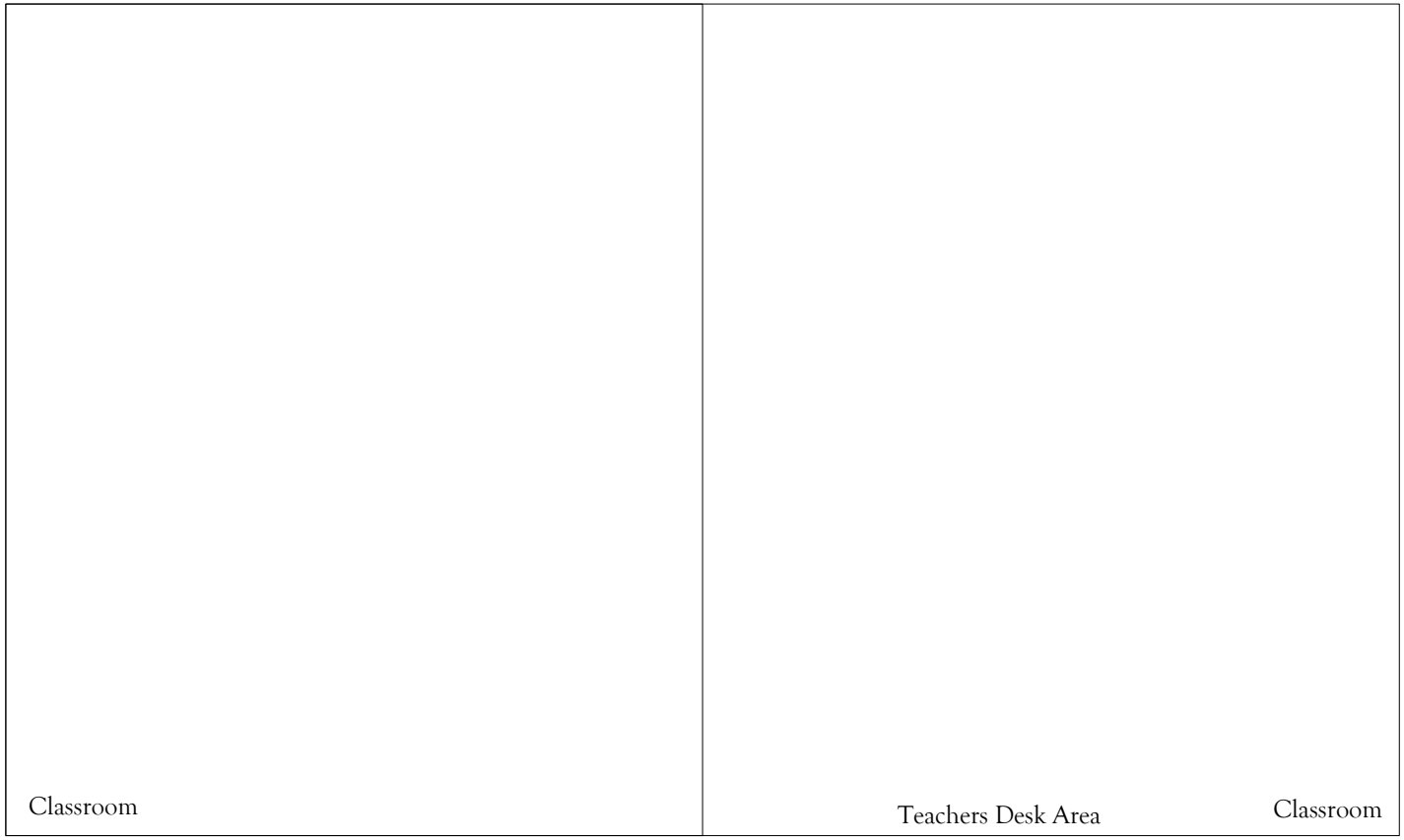
Material ID	Material	Regulatory Result	Highest Analytical Result	Est. Quantity
There are no homogenous materials for this project that have tested positive containing asbestos				

A copy of this report along with a demolition application should be submitted to NC DHHS at least 10 working days prior to any demolition activities. Additionally, a copy of this report should be provided to the contractors to assist with compliance with applicable State and Federal regulations.

The possibility exists that suspect materials were undetected in inaccessible areas such as areas deemed unsafe to enter, behind exterior veneer, pipe chases, or wall voids. If additional suspect materials not included in this report are discovered during renovations, bulk samples should be collected and analyzed for asbestos content.

APPENDIX 1
Site Location Plan and Sample Location Plan

	Site Location Plan Richlands Elementary School PE Buidling Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/2020 Source: N/A	**Figure 1**



Front

LEGEND

Sample Location

Asbestos Containing Sample Location

Notes:

	Asbestos Sample Location Plan Richlands Elementary School PE Building Richlands, NC Project # - 2020-01-122	Scale: Not to Scale Reviewed By: DS Date: 5/6/20 Source: N/A	**Figure 2**

APPENDIX 2
Photographs

Site Photos

Interior, PE Building


Interior, PE Building

Interior, PE Building

Exterior, PE Building

APPENDIX 3
Laboratory Results

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May 1, 2020

Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

CLIENT PROJECT: Richlands Elementary PE Bldg.
CEI LAB CODE: A205154

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2020. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Asbestos Inspections LLC

CLIENT PROJECT: Richlands Elementary PE Bldg.

LAB CODE: A205154

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/01/20

TOTAL SAMPLES ANALYZED: 3

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Richlands Elementary PE Bldg. **LAB CODE:** A205154

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A83449	White	Window Glazing	None Detected
001B		A83450	White	Window Glazing	None Detected
001C		A83451	White	Window Glazing	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Asbestos Inspections LLC
4686 Peedee Hwy
Conway, SC 29527

Lab Code: A205154
Date Received: 04-24-20
Date Analyzed: 04-30-20
Date Reported: 05-01-20

Project: Richlands Elementary PE Bldg.

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
001A A83449	Window Glazing	Heterogeneous White Non-fibrous Bound		90% 10%	Binder Paint	None Detected
001B A83450	Window Glazing	Heterogeneous White Non-fibrous Bound		90% 10%	Binder Paint	None Detected
001C A83451	Window Glazing	Heterogeneous White Non-fibrous Bound		90% 10%	Binder Paint	None Detected

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Emily Lineback
Emily Lineback

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

A205154
A83449-
A83451

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
ECEI Lab Code:
ECEI Lab I.D. Range:

3

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Dawn Schoolcraft
Company: Asbestos Inspections, LLC	Email / Tel: dschoolcraft1978@gmail.com
Address: 4686 Pee Dee Hwy., Conway, SC 29527	Project Name: Richlands Elementary PE Bldg.
	Project ID#:
Email: dschoolcraft1978@gmail.com	PO #:
Tel: 843-995-5197 Fax:	STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☐	■
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D [illegible]80-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D[illegible]55-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

**Blanks should be taken from the same sample lot as field samples.*

REMARKS / SPECIAL INSTRUCTIONS:	☑ Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dawn Schoolcraft	4/23/2020	[illegible]	4/24 9:00

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

A205154

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Asbestos Inspections, LLC	Job Contact: Dawn Schoolcraft
Project Name: Richlands Elementary F Bldg.	
Project ID #:	Tel: 843-995-5197

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
001A-C	Window Glaze		PLM ■	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
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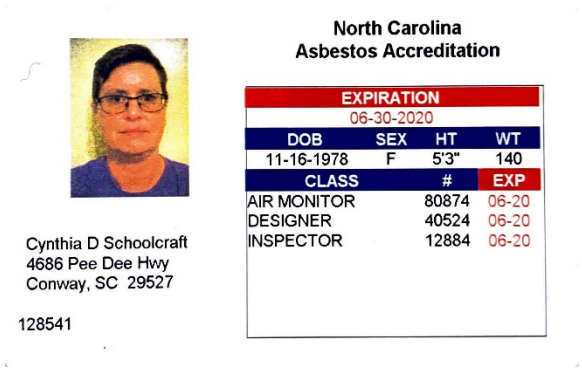
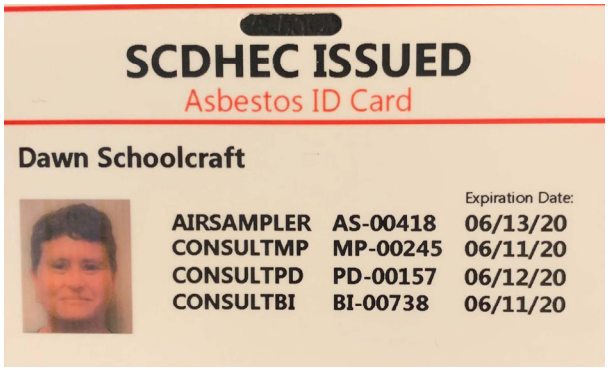
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

Page ______ of ______

APPENDIX 4
License



12884, 06/30/2020, North Carolina, Dawn Schoolcraft



BI-00738, 06/11/2020, South Carolina, Dawn Schoolcraft

1909008, 09/30/2021, South Carolina, Dawn Schoolcraft

LBP-R-I162035-1, 03/16/2021, South Carolina, Dawn Schoolcraft

WALL TYPE NAMING CONVENTION

M8UA

TYPE OF CORE
- C CONCRETE
- F FURRING
- M MASONRY
- S METAL STUD
- W WOOD

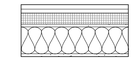
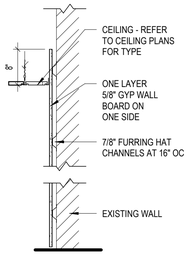
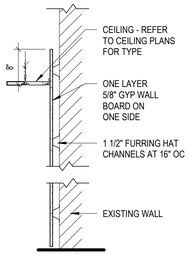
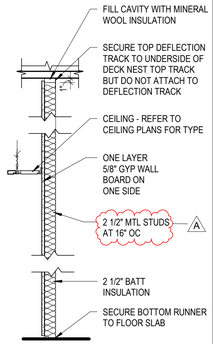
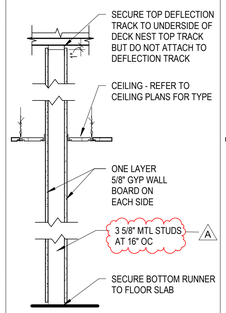
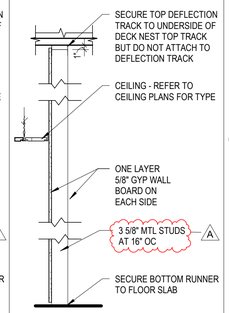
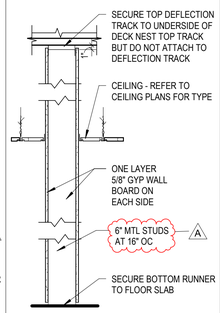
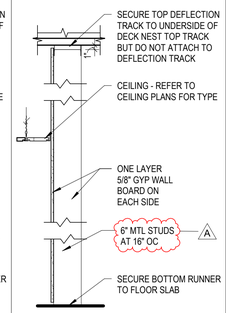
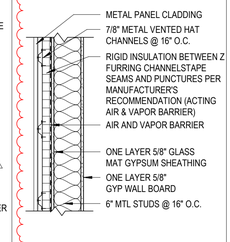
WIDTH OF CORE
- 4 4" MASONRY, 3 5/8" METAL STUD
- 5 4" METAL STUD
- 6 6" MASONRY, 6" METAL STUD
- 8 8" MASONRY, 8" METAL STUD
- 10 10" MASONRY
- 12 12" MASONRY, 12" METAL STUD

HEIGHT OF WALL
- C UP TO CEILING
- D DETACHED - SEE DRAWINGS FOR HEIGHT
- J UP TO JOIST BEARING
- P 8" ABOVE CEILING
- U UP TO DECK ABOVE

ITERATION - SEE WALL TYPES LEGEND
- NONE IF NO LAYERS OR FINISHES
- A (EX: 1 LAYER GWB ON EACH SIDE)
- B (EX: 1 LAYER GWB ON ONE SIDE)
- C ...

NOTE:
1. SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
2. SEE WALL TYPE LEGEND FOR CONSTRUCTION OF ASSEMBLIES AND FIRE RATINGS UL LISTING.

WALL TYPE LEGEND

MARKER	F1PB	F1.5PB	S2UB	S4UA	S4UB	S6UA	S6UB	S6UC
SYMBOL								
								
DESCRIPTION	7/8" HAT CHANNEL UP TO MIN. 8" ABOVE CEILING WITH 5/8" GYP BOARD ON ONE SIDE	1 1/2" HAT CHANNEL UP TO MIN. 8" ABOVE CEILING WITH 5/8" GYP BOARD ON ONE SIDE	2 1/2" METAL STUD UP TO BOTTOM OF DECK WITH BATT INSULATION AND 5/8" GYP BOARD ON ONE SIDE	3 5/8" METAL STUD UP BOTTOM OF DECK WITH 5/8" GYP BOARD EACH SIDE	3 5/8" METAL STUD UP TO BOTTOM OF DECK WITH 5/8" GYP BOARD ON ONE SIDE	6" METAL STUD UP BOTTOM OF DECK WITH 5/8" GYP BOARD EACH SIDE	6" METAL STUD UP TO BOTTOM OF DECK WITH 5/8" GYP BOARD ON ONE SIDE	6" METAL STUD WITH BATT INSULATION, 5/8" ABUSE-RESISTANT GYP BOARD ON INT SIDE, 5/8" GLASS MAT GYPSUM SHEATHING ON EXT SIDE, RIGID INSULATION BETWEEN Z FURRING CHANNELS, 7/8" METAL VENTED HAT CHANNELS, METAL PANEL CLADDING. REFER TO SHEETS A9-09 & A9-12 FOR DETAILS
UL DESIGN # HEAD	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED
WALL	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED
BASE	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED	NON-RATED
PENETRATIONS	REFERENCE MEP	REFERENCE MEP	REFERENCE MEP	REFERENCE MEP	REFERENCE MEP	REFERENCE MEP	REFERENCE MEP	REFERENCE MEP

NOTES:
1. ALL CMU WALLS GOING UP TO BOTTOM OF DECK ARE TO PROVIDE A 1" GAP FOR DEFLECTION.
2. FILL 1" GAP WITH MINERAL WOOL INSULATION ALONG THE ENTIRE LENGTH OF WALL
3. AT ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK
4. SEE FINISH SCHEDULE FOR WALL, FLOOR BASE AND CEILING TYPES AND FINISHES
5. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS, BRACING, ETC.
6. PROVIDE ABUSE-RESISTANT GWB IN ALL CLASSROOMS, CORRIDORS AND BULKHEADS
7. CONTRACTOR TO PROVIDE DELEGATED DESIGN FOR ALL METAL FRAMING SIZING AND SPACING. REFER TO SPECIFICATIONS. A

smith sinnett ARCHITECTURE

T 919 781 8582
F 919 781 3979

4600 Lake Boone Trail
Suite 205
Raleigh, NC 27607

info@smithsinnett.com

SMITH SINNETT ARCHITECTURE PA CERT. NO. 50172 RALEIGH

CHARLES TENNANT WHITMAN REGISTERED ARCHITECT 13798 NORTH CAROLINA RALEIGH

BID/PERMIT SET

ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B.	03/14/2023	ADDENDUM 2
A.	03/02/2023	ADDENDUM 1

DRAWN BY: AC
CHECKED BY: CWT

WALL TYPE LEGEND

2022017 20 Feb 2023

G0-03

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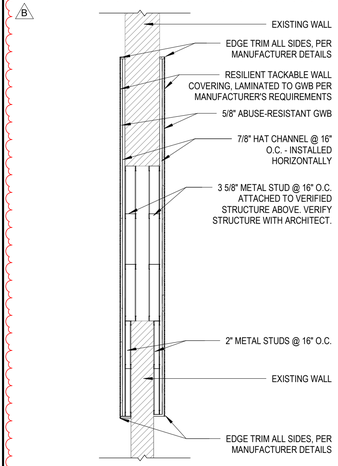
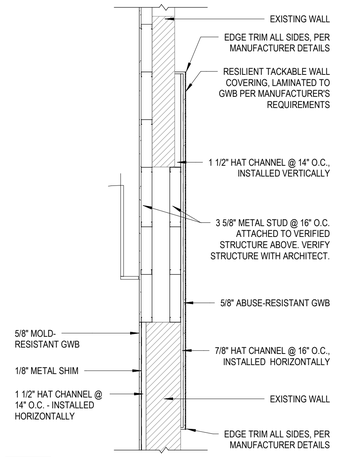
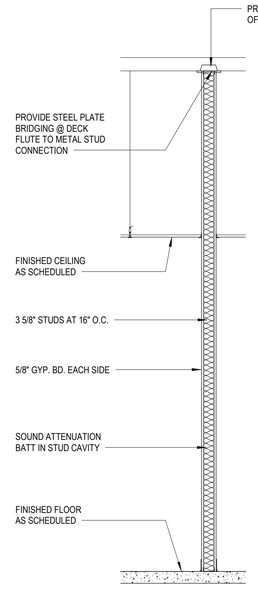


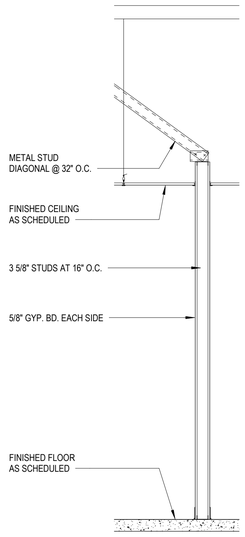
15 / A5-01 — TYPICAL CLASSROOM WALL INFILL
1/2" = 1'-0"



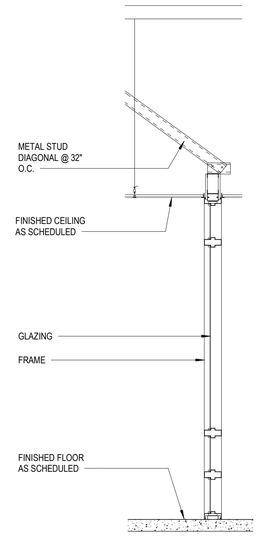
14 / A5-01 — BATHROOM WALL INFILL
1/2" = 1'-0"



TIGHT TO DECK WALL

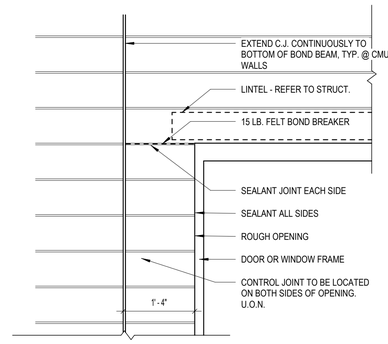


TYPICAL INTERIOR WALL

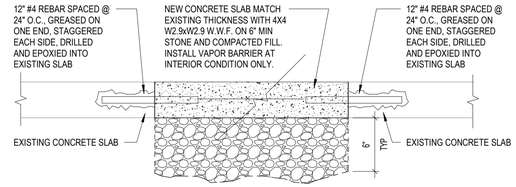


TYPICAL FRAMING AND GLAZING WALL

11 / A5-01 — INTERIOR WALL BRACING DETAIL
1/2" = 1'-0"

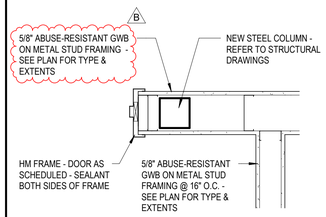


10 / A5-01 — CONTROL JOINT AT ALL WALL OPENINGS
3/4" = 1'-0"

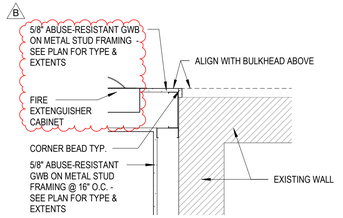


NOTE: INSTALL EXPANSION JOINT IN LIEU OF EPOXY ANCHOR AT INTERSECTION OF SLAB EDGE AND EXISTING WALL LOCATIONS.

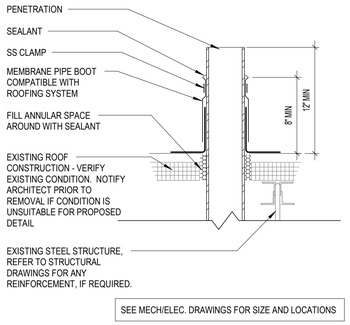
9 / A5-01 — TYPICAL SLAB TRENCH INFILL DETAIL
1 1/2" = 1'-0"



13 / A5-01 — PLAN OF NEW STRUCTURE
1" = 1'-0"

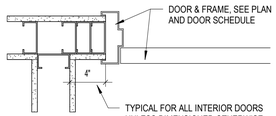


12 / A5-01 — PLAN OF RESTROOM CORNER
1" = 1'-0"

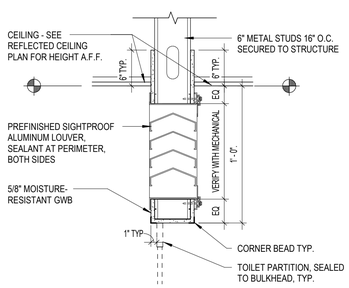


SEE MECH/ELEC. DRAWINGS FOR SIZE AND LOCATIONS

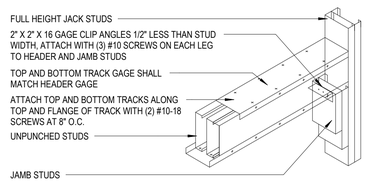
8 / A5-01 — PIPE PENETRATION
1 1/2" = 1'-0"



7 / A5-01 — TYP DOOR PLACEMENT - MTL STUD
1 1/2" = 1'-0"

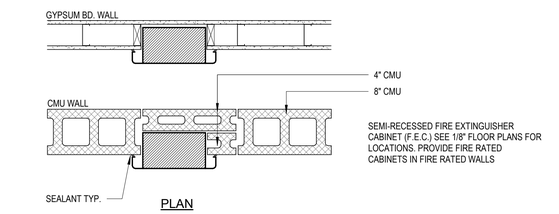


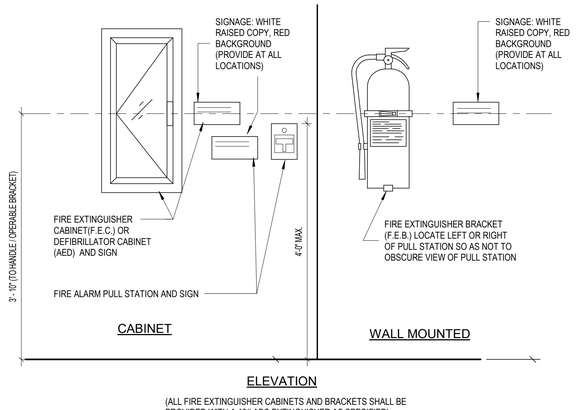
6 / A5-01 — TYP HEADER DETAIL
1" = 1'-0"



NON-LOAD BEARING HEADER

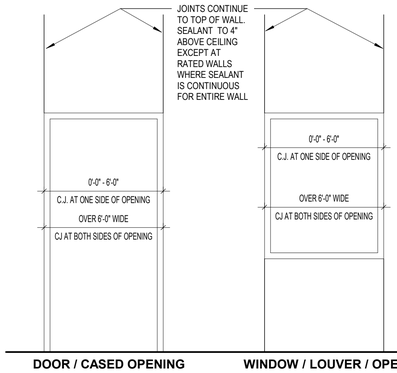
5 / A5-01 — TYP INTERIOR HEADER - MTL STUD
1/2" = 1'-0"



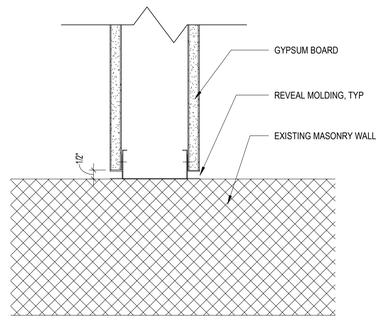


(ALL FIRE EXTINGUISHER CABINETS AND BRACKETS SHALL BE PROVIDED WITH A 10# ABC EXTINGUISHER AS SPECIFIED)

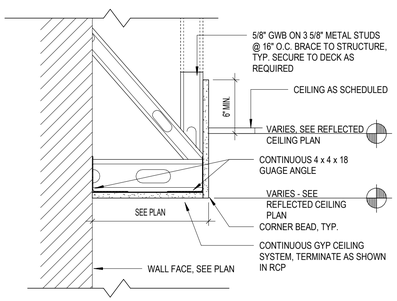
4 / A5-01 — SEMI-RECESSED FIRE EXTINGUISHER CABINET
1" = 1'-0"



3 / A5-01 — GYPSUM WALL CONTROL JOINTS
1/2" = 1'-0"



2 / A5-01 — GYPSUM TO MASONRY DETAIL - REVEAL
3" = 1'-0"



1 / A5-01 — TYP GYP CONTINUOUS BULKHEAD
1 1/2" = 1'-0"

smith sinnett ARCHITECTURE
T 919 781 8582
F 919 781 3979
4600 Lake Boone Trail
Suite 205
Raleigh, NC 27607
info@smithsinnett.com

SMITH SINNETT ARCHITECTURE, PA — CERT. NO. 50172 — RALEIGH, NC
CHARLES WHITMAN TENNANT — REGISTERED ARCHITECT — 13798 — NORTH CAROLINA — RALEIGH

BID/PERMIT SET

THIS DRAWING IS FORMATTED TO BE PRINTED ON A 24" X 36" SHEET

ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B.	03/14/2023	ADDENDUM 2

DRAWN BY: AC
CHECKED BY: CWT

DETAILS

2022017 — 20 Feb 2023

A5-01

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3/15/2023 3:01:07 PM

GENERAL DEMOLITION NOTES:

1. ALL CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY INCONSISTANCIES IN WRITING PRIOR TO STARTING ANY WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEEKLY AND/OR DAILY REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS ACCUMULATED DURING DEMOLITION AND CONSTRUCTION.

3. REMOVAL OF HAZARDOUS MATERIAL AND DEBRIS SHALL BE AS FOLLOWS:
   A. ALL HAZARDOUS SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO PROJECT COMPLETION. CONTRACTOR SHALL FOLLOW ALL THE REQUIREMENTS TO LEGALLY DISPOSE OF ALL HAZARDOUS MATERIALS.
   B. THE CONTRACTOR IS REQUIRED TO PERFORM ABATEMENT AND REMEDIATION ACTIVITIES INSIDE NEGATIVEAIR PRESSURIZED ENCLOSURES.
   C. ABATEMENT OF ALL HAZARDOUS MATERIALS SHALL OCCUR PRIOR TO BUILDING DEMOLITION. BOTH ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE PROJECT SHALL BE PHASED SUCH THAT DEMOLITION CAN FOLLOW ABATEMENT IN THE FIRST AREA OF THE BUILDING WHILE ABATEMENT IS OCCURING IN THE NEXT AREA OF THE BUILDING.

   ASBESTOS - REFER TO ASBESTOS REMOVAL DESIGN AND SPECIFICATIONS
   LEAD - REFER TO LEAD CLEANING DESIGN AND SPECIFICATIONS
   BULBS - FLUORESCENT, MERCURY VAPOR, SODIUM, ETC. BULBS WILL BE HANDLED AS UNIVERSAL WASTE. UPON REMOVAL FROM LIGHTING DEVICES, THEY IMMEDIATELY MUST BE PUT INTO APPROPRIATE CONTAINERS AND LABELED ASUSED LAMPS. A UNIVERSAL WASTE LABEL WILL BE ATTACHED AND ACCUMULATION DATE FILLED IN ON THE LABEL. BOX MUST BE CLOSED AND TAPED SHUT AT ALL TIMES UNLESS BULBS ARE BEING ADDED. BULBS UNLESS BROKEN SHALL BE RECYCLED. ANY BROKEN OR DAMAGED BULBS WILL BE CONTAINERIZED IN PLASTIC OR METAL CONTAINERS FOR DISPOSAL AS HAZARDOUS WASTE
   BALLAST - ALL BALLAST WILL BE CONTAINERIZED AND RECYCLED

4. ANY FLOOR, CEILING, WALL OR OTHER MATERIALS INCLUDING FINISHES IN AREAS TO REMAIN ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT. ANY MATERIALS DAMAGED DURING CONSTRUCTION OR DEMOLITION, SHALL BE RETURNED TO THEIR ORIGINAL STATE, OR IMPROVED AS INDICATED BY THE OWNER OR ARCHITECT, OR REPLACED WITH A NEW MATERIAL TO MATCH ADJACENT MATERIALS, TYPICAL.

5. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN AND MATERIALS EXPOSED TO VIEW WHERE OTHER ITEMS OR MATERIALS HAVE BEEN REMOVED.

6. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL AND COMPLETE SCOPE OF DEMOLITION THAT MAY OR MAY NOT BE NOTED ON THE ARCHITECTURAL DEMOLITION PLAN AND NOTES.

7. CONTRACTOR SHALL REMOVE ALL WALL MOUNTED FIXTURES OR ITEMS UNLESS OTHERWISE NOTED. ALL WALLS SHALL BE REPAIRED, AND VOIDS FILLED AFTER FIXTURE REMOVAL. ALL FINISHES SHALL MATCH ADJACENT SURFACES. REMOVE ALL FOREIGN MATTER, SHELVING, LOOSE DEBRIS INCLUDING TAPE, ADHESIVE, NAILS, SCREWS, ETC. FROM WALLS. SCRAPE, WIRE BRUSH, AND SAND SMOOTH. WASH ALL PAINTED SURFACES TO REMOVE ANY "FILM OR RESIDUE". PREPARE SURFACES TO PROVIDE A MAXIMUM DEGREE OF NEW PAINT ADHESION. PATCH AND REPAIR ALL VOIDS IN PREPARATION FOR NEW FINISHES.

8. ALL FIXTURES, WALLS AND PORTIONS OF WALLS SHOWN AS DASHED LINES OR LABELED SHALL BE DEMOLISHED UNLESS ELEMENTS REMOVED OR REPLACED. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AND IS RESPONSIBLE FOR ANY FAILURE DUE TO LACK OF PROPER BRACING.

9. DURING THE BIDDING PROCESS, CONTRACTORS SHALL TAKE NOTE OF EXISTING PLUMBING MECHANICAL, AND ELECTRICAL ITEMS IN AREAS TO BE RENOVATED. ITEMS INCLUDE BUT ARE NOT LIMITED TO WIRES, CONDUITS, PIPES, THERMOSTATS, FIRE ALARM DEVICES, PANEL CANS, ETC. THESE HAVE BEEN IDENTIFIED IN THE DEMOLITION DRAWINGS FOR ARCHITETURE, PLUMBING, MECHANICAL, AND/OR ELECTRICAL. FOR ITEMS NOT SHOWN, CONTRACTOR SHALL WORK WITH THE ARCHITECT AND OWNER TO DETERMINE IF THE ITEM IS STILL IN USE ITEMS WHICH ARE NOTED TO BE REMOVED AND STORED FOR LATER REINSTALLATION SHALL BE TAGGED AND LISTED ON AN ITEMIZED LIST GIVEN TO THE OWNER AND ARCHITECT.

10. THE GENERAL CONTRACTOR SHALL COORDINATE THE DEMOLITION OF THE EXISTING BUILDING AREAS WITH THE ARCHITECT AND OWNER. THE CONTRACTOR SHALL COORDINATE AFTER HOURS WORK AND OBTAIN WRITTEN OWNER PERMISSION FOR NIGHT AND WEEKEND WORK.

11. CONTRACTOR SHALL ENSURE WATER-TIGHT INTEGRITY OF THE TEMPORARY ENCLOSURE SYSTEMS AND MAINTAIN THEM THROUGH THE ENTIRETY OF CONSTRUCTION TO PREVENT THE INTRUSION OF WATER AND THE ELEMENTS INTO THE BUILDING.

12. ALL EXISTING FIRE EXTINGUISHER AND BRACKETS SHALL REMAIN AND BE INSTALLED IN THEIR CURRENT LOCATION UNLESS SHOWN ON THE PLANS TO RELOCATE.

13. CONTRACTOR SHALL PATCH AND FILL IN ANY VOIDS LEFT FROM THE DEMOLITION OF ANY PLUMBING, MECHANICAL, OR ELECTRICAL ITEMS. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.

DEMOLITION SPECIFIC AREA NOTES:

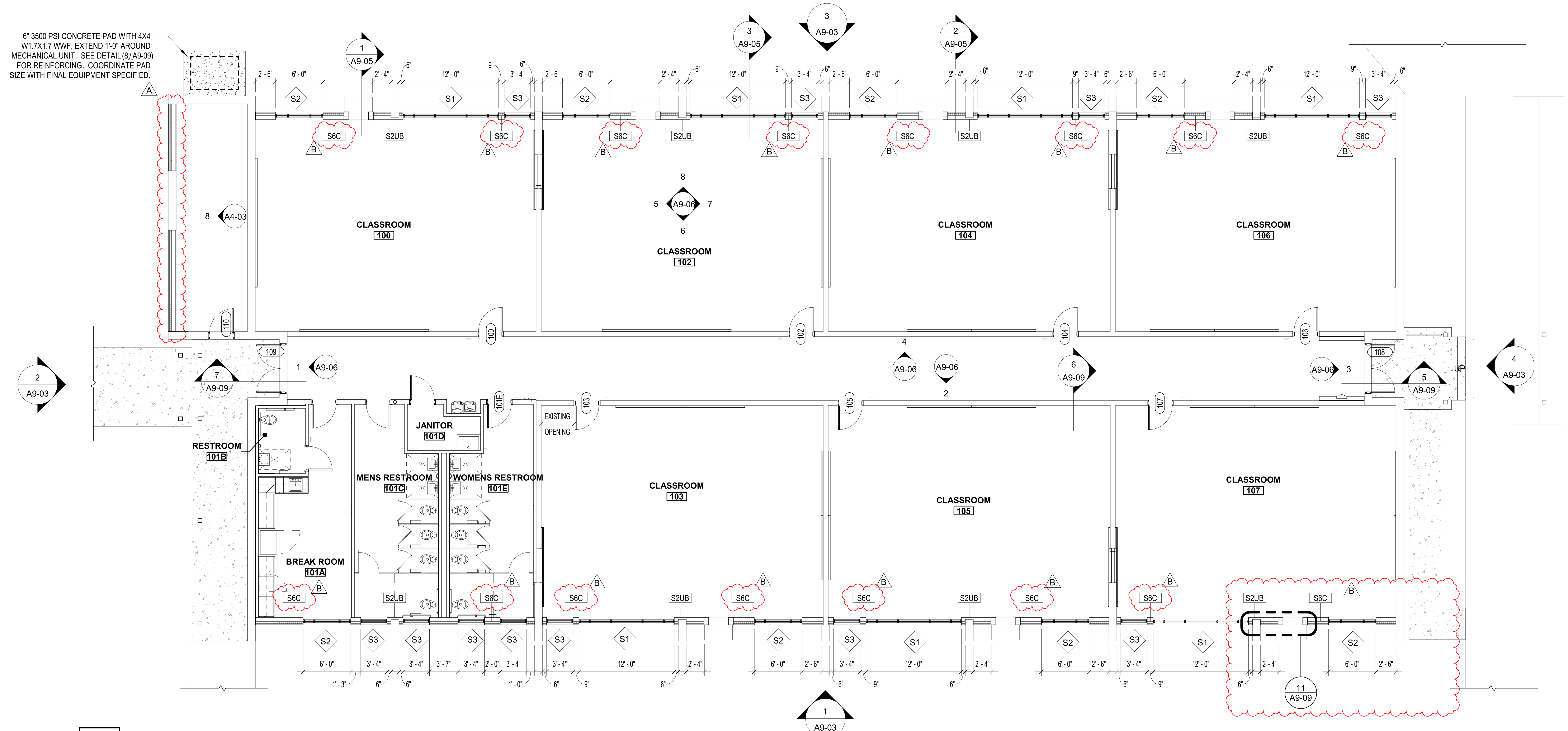
6	REMOVE EXISTING DOOR, FRAME, TRANSOM, & HARDWARE IN ITS ENTIRETY. PREPARE EXISTING WALL TO RECEIVE A NEW FRAME AND PREPARE SURROUNDING AREA TO RECEIVE NEW FINISH SPECIFIED OR IF NO FINISH IS SPECIFIED MATCH EXISTING. PROVIDE DEMOLITION MASONRY TOOTHING AS NECESSARY TO INSTALL NEW FRAME.
9	REMOVE EXISTING WINDOW, GLAZING, BLINDS, FRAME AND ITS ASSOCIATED PARTS IN ITS ENTIRETY. REFER TO ASBESTOS REMOVAL DESIGN AND SPECIFICATIONS FOR INSTRUCTIONS ON THE ASBESTOS WINDOW GLAZING AND FRAME CAULK. PREPARE EXISTING WALL TO RECIEVE A NEW FRAME OR METAL PANEL INFILL ASSEMBLY. PREPARE SURROUNGING AREA TO RECIEVE NEW FINISH SPECIFIED OR IF NO FINISH SPECIFIED, MATCH EXISTING. WINDOW OPENING SHALL BE SECURED WITH EITHER A WEATHER PROOF TEMPORARY PARTITION OR THE PERMANENT FRAME AND GLAZING.

DEMOLITION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
# (triangle)	DEMOLITION KEYED NOTE	- - - - - - - -	EXISTING TO BE REMOVED DURING DEMOLITION
————	EXISTING TO REMAIN		

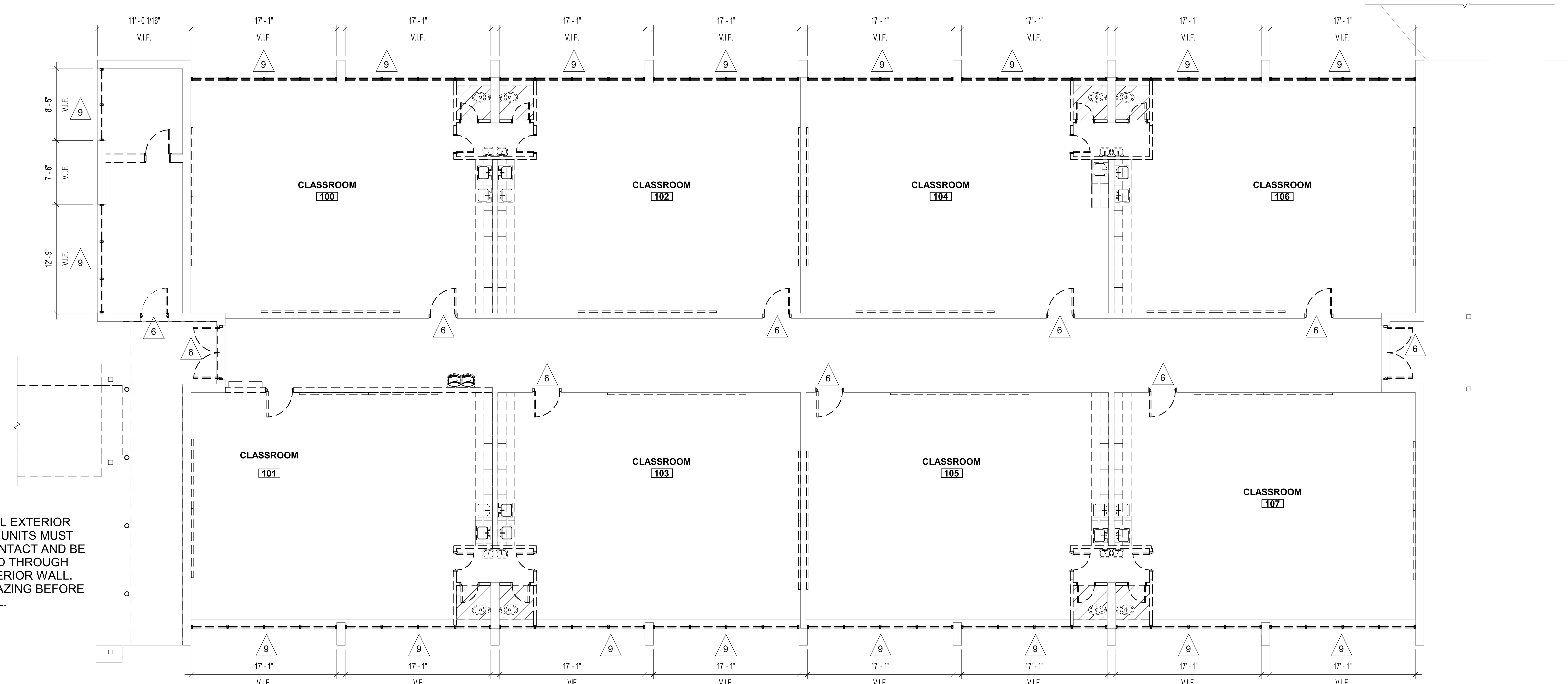
NOTES:

1. ALL INTERIOR WALL TYPES TO BE 'S4UA' UNLESS OTHERWISE NOTED.
2. WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN.
3. ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK. FILL FLUTE IN METAL DECK WHERE REQUIRED.
4. ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
5. CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL
6. SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
7. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS, BRACING, ETC.
8. ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT, MINIMUM.
9. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS.
10. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC). GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES.
11. FIELD VERIFY FINAL ROOM DIMENSIONS PRIOR TO CASEWORK FABRICATION.
12. NOT USED
13. ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN CONCRETE SLAB.
14. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
15. DOOR JAMB FROM INTERSECTING WALLS: STUD - 4" UNLESS OTHERWISE NOTED



2 / A9-01 **RENOVATION PLAN - ALT 2**
1/8" = 1'-0"

NOTE: ALL EXTERIOR GLAZING UNITS MUST REMAIN INTACT AND BE REMOVED THROUGH THE EXTERIOR WALL. TAPE GLAZING BEFORE REMOVAL.



1 / A9-01 **DEMO PLAN - ALT 2**
1/8" = 1'-0"

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SMITH SINNETT ARCHITECTURE, PA — REGISTERED ARCHITECTURAL CORPORATION — NORTH CAROLINA — CERT. NO. 50172 — RALEIGH

CHARLES WHITMAN TENNANT — REGISTERED ARCHITECT — 13798 — NORTH CAROLINA — RALEIGH, N.C. 2/20/23

BID/PERMIT SET

THIS DRAWING IS FORMATTED TO BE PRINTED ON A 24" X 36" SHEET

ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B	03/14/2023	ADDENDUM 2
A	03/02/2023	ADDENDUM 1

DRAWN BY: AC
CHECKED BY: CWT

FLOOR PLANS (ALTERNATE 2)

2022017 — 20 Feb 2023

A9-01

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DEMOLITION SPECIFIC AREA NOTES:

7	REMOVE EXISTING CEILING TILE, GRID, HANGERS AND ASSOCIATED PARTS IN ITS ENTIRETY, INCLUDING SECONDARY CEILING WHERE APPLICABLE. PREP AREA TO RECIEVE NEW CEILING.
10	REMOVE EXISTING WINDOW, GLAZING, FRAME AND ITS ASSOCIATED PARTS IN ITS ENTIRETY. PREP EXISTING WALL TO BE INFILLED WITH STUD WALL.
13	REMOVE ALL EXISTING LIGHTING FIXTURES, CEILING FANS, AND ALL ASSOCIATED PARTS IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO CONNECTING CONDUIT. RETURN CEILING FANS TO OWNER . REFER TO ELECTRICAL FOR COMPLETE SCOPE OF DEMOLITION. REFER TO GENERAL DEMO NOTES FOR REQUIREMENTS ON BULB AND BALLAST DISPOSAL.

DEMOLITION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
#	DEMOLITION KEYED NOTE	- - - - - -	EXISTING TO BE REMOVED DURING DEMOLITION
———	EXISTING TO REMAIN		

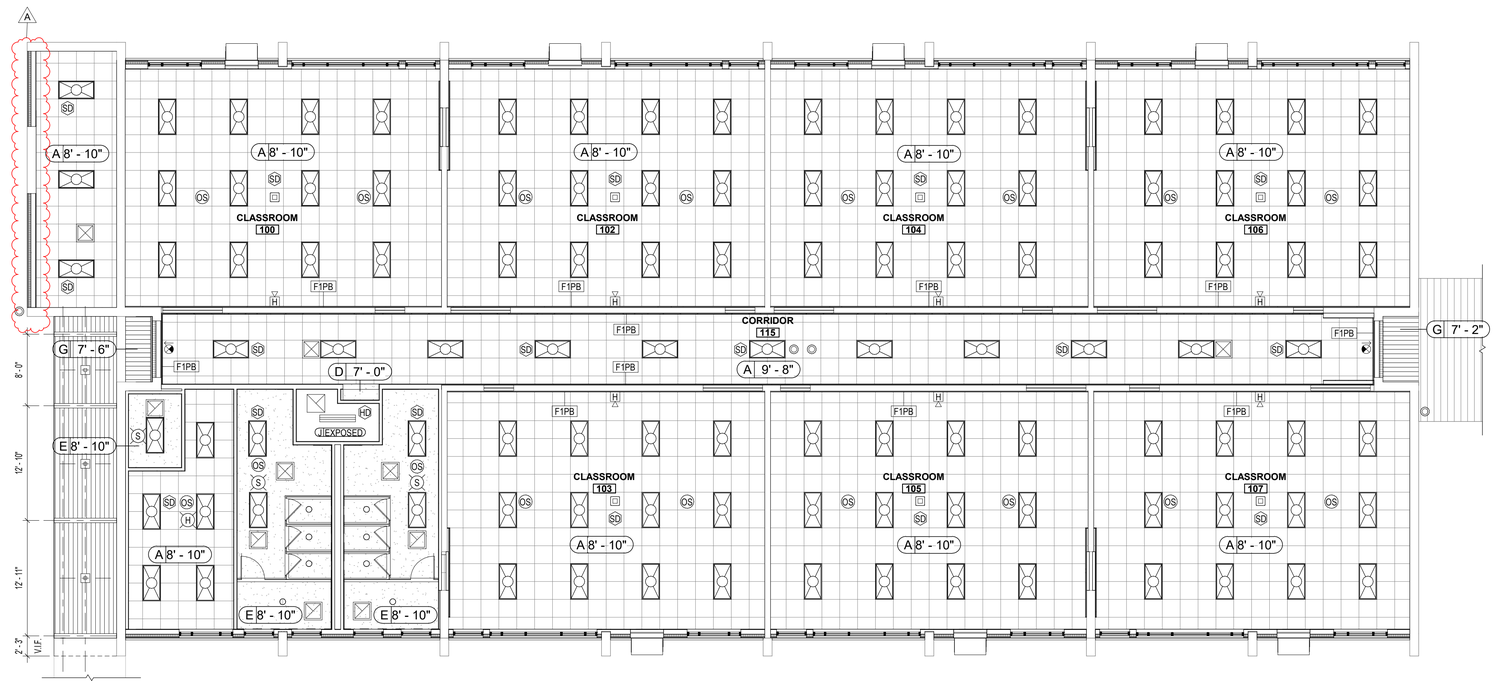
REFLECTED CEILING LEGEND AND NOTES

CEILING TYPE
A 10'-0" — CEILING HEIGHT

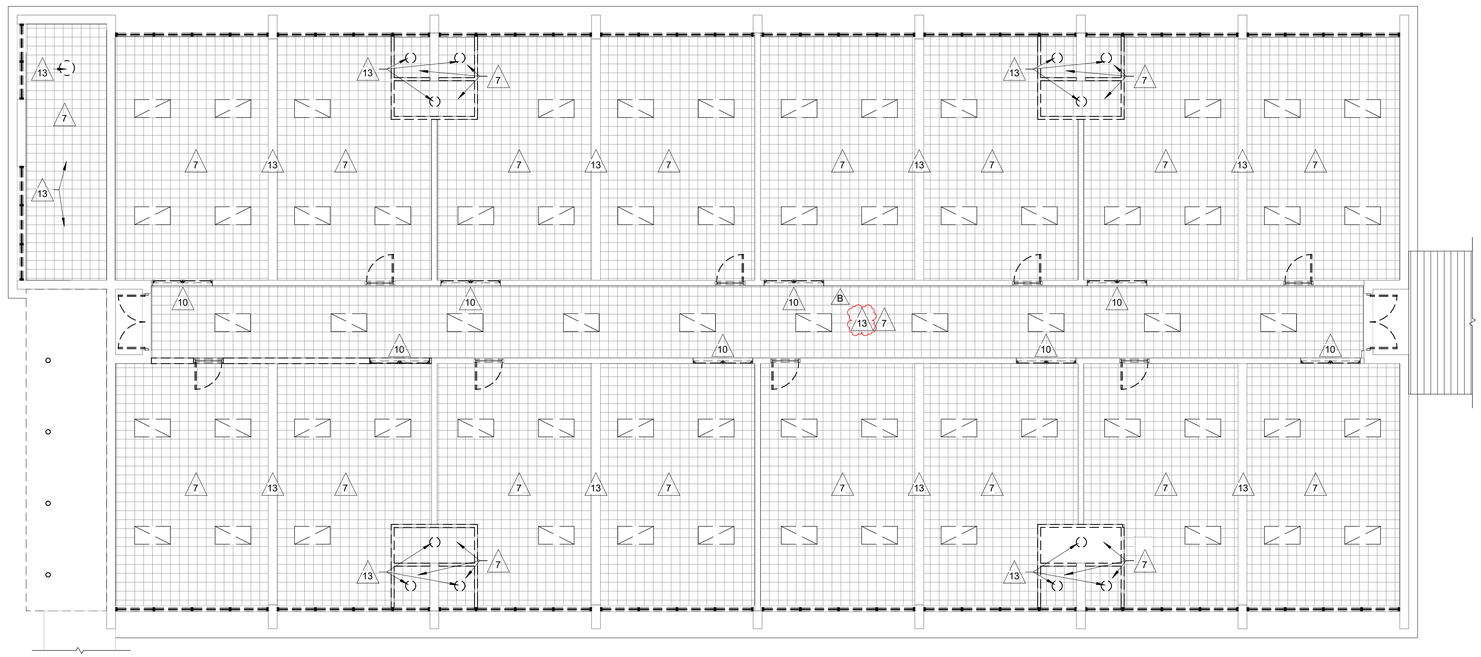
SYMBOL	TYPE	DESCRIPTION
	A	ACT-1, 2x2 CEILING TILE, WHITE FINISH
	B	NOT USED
	C	NOT USED
	D	GYPSUM WALLBOARD CEILING SYSTEM
	E	MOLD RESISTANT GYP WALLBOARD /B
	F	NOT USED
	G	METAL SOFFIT PANEL - PERFORATED
	H	NOT USED
	J	EXPOSED

SYMBOL	DESCRIPTION
	2 X 4 LED FIXTURE
	CAN STYLE FIXTURE
	EXHAUST AIR GRILLE
	SUPPLY AIR DIFFUSER
	HANGING LED FIXTURE
OS	OCCUPANCY SENSOR
	WIRELESS ACCESS POINT
	EXIT SIGN - CEILING MOUNTED
	CAMERA
SD HD	CEILING MOUNTED SMOKE/HEAT DETECTOR
S	FIRE ALARM WITH STROBE ONLY
H	FIRE ALARM WITH HORN AND STROBE
H	WALL MOUNTED FIRE ALARM WITH HORN AND STROBE

1. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF CEILING PENETRATIONS AND FIXUTRES.
2. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE DESCRIPTION OF CEILING MATERIAL



2 / A9-02 REFLECTED CEILING PLAN - ALT 5
1/8" = 1'-0"



1 / A9-02 DEMO REFLECTED CEILING PLAN - ALT 5
1/8" = 1'-0"

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NORTH CAROLINA ARCHITECTURE PA CERT. NO. 50172 SMITH SINNETT RALEIGH

REGISTERED ARCHITECT CHARLES WHITMAN TENNANT 13798 NORTH CAROLINA RALEIGH 12/27

BID/PERMIT SET

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ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B.	03/14/2023	ADDENDUM 2
A.	03/02/2023	ADDENDUM 1

DRAWN BY: AC
CHECKED BY: CWT

REFLECTED CEILING PLANS (ALTERNATE 5)

2022017 20 Feb 2023

A9-02

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NOTES:

1. ALL INTERIOR WALL TYPES TO BE 'S4UA' UNLESS OTHERWISE NOTED.
2. WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN.
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4. ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
5. CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL
6. SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
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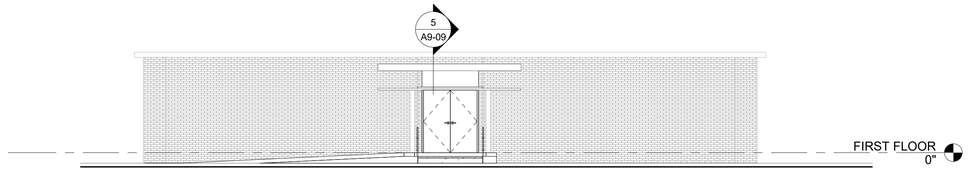
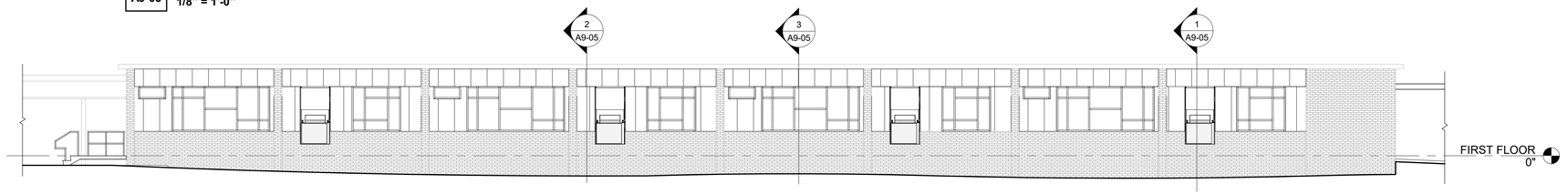
14. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
15. DOOR JAMB FROM INTERSECTING WALLS: STUD - 4" UNLESS OTHERWISE NOTED



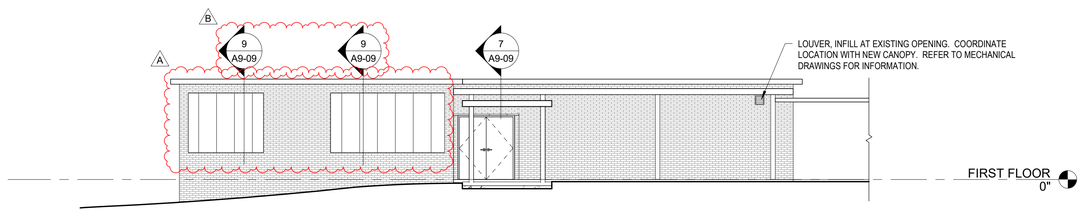
4 A9-03 **EAST ELEVATION - ALT 2**

1/8" = 1'-0"



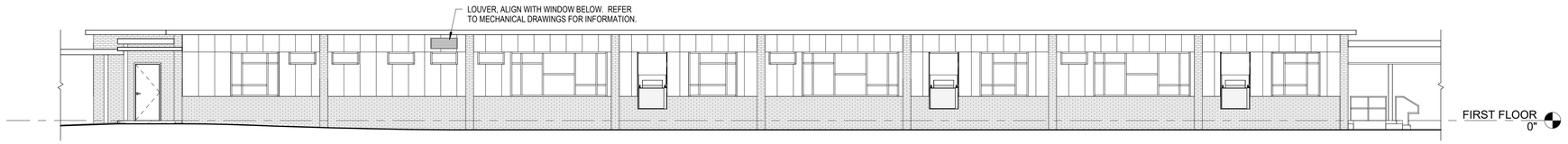
3 A9-03 **NORTH ELEVATION - ALT 2**

1/8" = 1'-0"



2 A9-03 **WEST ELEVATION - ALT 2**

1/8" = 1'-0"



1 A9-03 **SOUTH ELEVATION - ALT 2**

1/8" = 1'-0"

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CHARLES WHITMAN TENNANT REGISTERED ARCHITECT 13798 NORTH CAROLINA RALEIGH

12/27

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112 E FOY STREET RICHLANDS, NC 28574

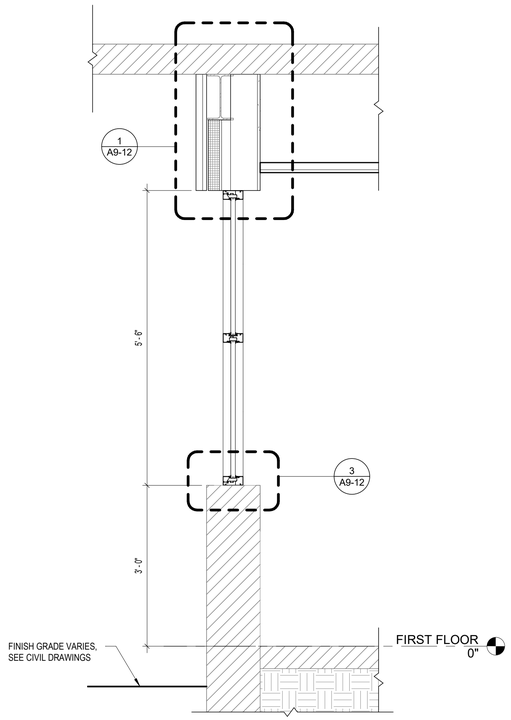
ID	DATE	DESCRIPTION
B.	03/14/2023	ADDENDUM 2
A.	03/02/2023	ADDENDUM 1

DRAWN BY: AC
CHECKED BY: CWT

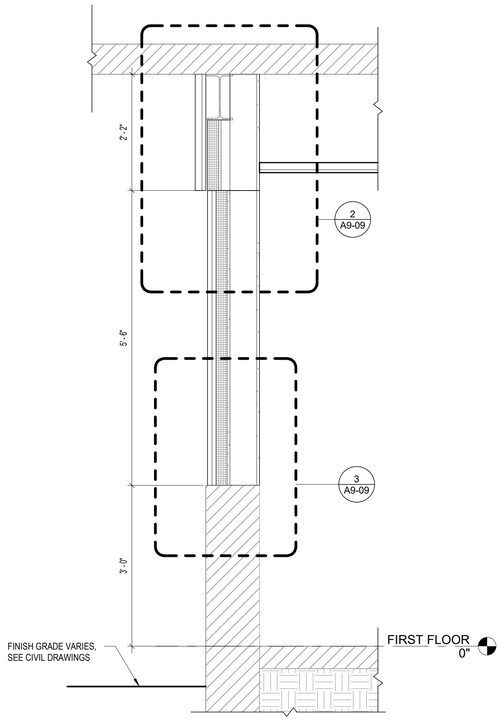
EXTERIOR BUILDING ELEVATIONS (ALTERNATE 2)

2022017 20 Feb 2023

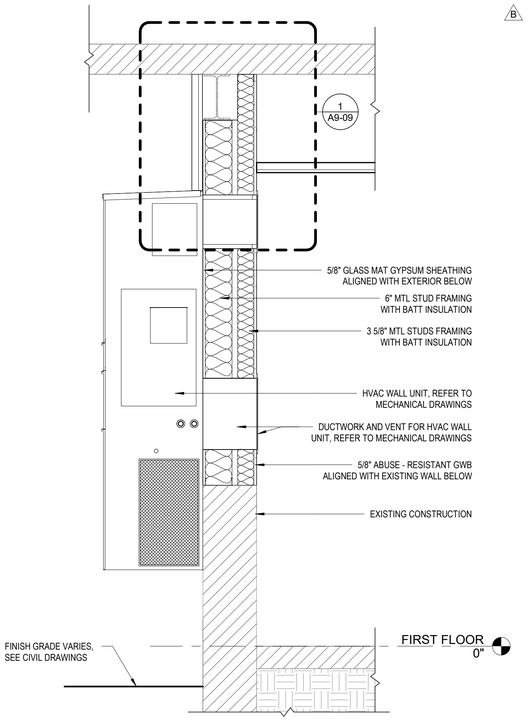
A9-03



3 A9-05 — EXT. WINDOW SECTION
3/4" = 1'-0"



2 A9-05 — EXTERIOR WALL SECTION
3/4" = 1'-0"



1 A9-05 — EXT. WALL BARD UNIT SECTION
3/4" = 1'-0"

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SMITH SINNETT ARCHITECTURE, PA — CERT. NO 50172 — RALEIGH

CHARLES WHITMAN TENNANT — REGISTERED ARCHITECT — 13798 — NORTH CAROLINA — RALEIGH — 3/15/23

BID/PERMIT SET

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ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B	03/14/2023	ADDENDUM 2
A	03/02/2023	ADDENDUM 1

DRAWN BY:	AC
CHECKED BY:	CWT

WALL SECTIONS (ALTERNATE 2)

2022017 — 20 Feb 2023

A9-05

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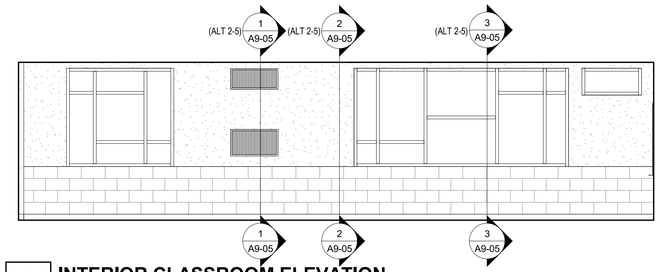
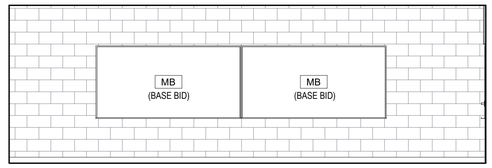
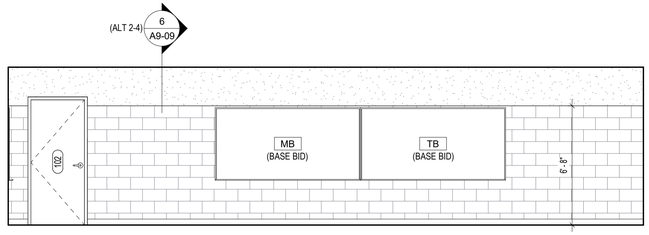


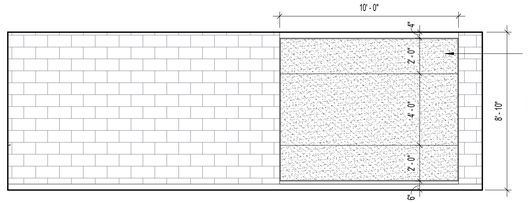
8 A9-06 INTERIOR CLASSROOM ELEVATION
1/4" = 1'-0"



7 A9-06 INTERIOR CLASSROOM ELEVATION
1/4" = 1'-0"



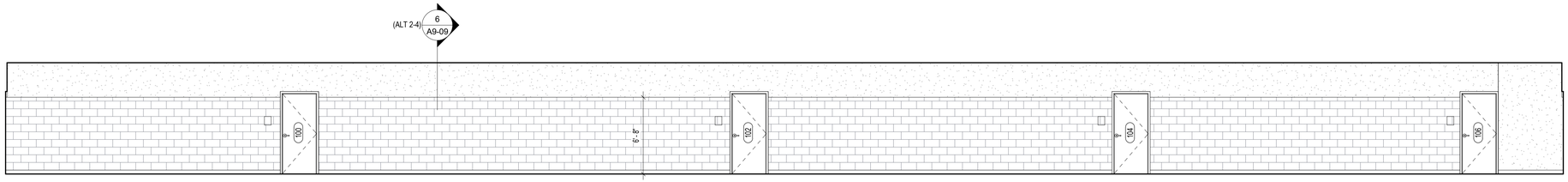
6 A9-06 INTERIOR CLASSROOM ELEVATION
1/4" = 1'-0"



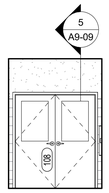
RESILIENT TACKABLE WALL SURFACE ACCENT WALL AS PART OF BASE BID, SEE 1/A1-01 FOR PLAN AND 12/A5-01 FOR DETAIL.

BASIS OF DESIGN: KOROSEAL TAC WALL OR APPROVED EQUAL, LAMINATED TO GYPSUM WALL BOARD PER MANUFACTER'S REQUIREMENTS.

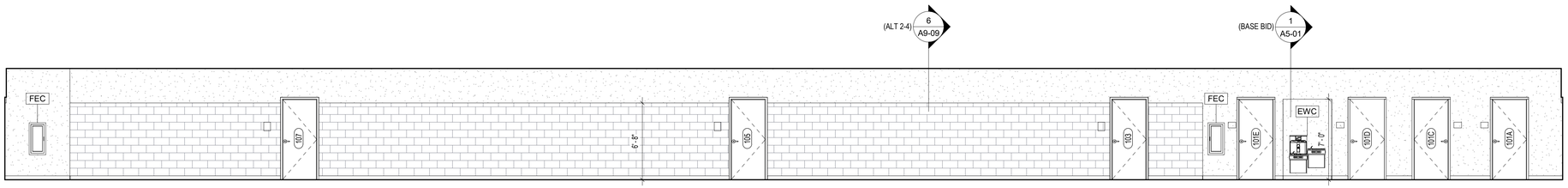
5 A9-06 INTERIOR CLASSROOM ELEVATION
1/4" = 1'-0"



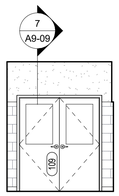
4 A9-06 CORRIDOR - NORTH
3/16" = 1'-0"



3 A9-06 CORRIDOR - EAST
3/16" = 1'-0"



2 A9-06 CORRIDOR - SOUTH
3/16" = 1'-0"



1 A9-06 CORRIDOR - WEST
3/16" = 1'-0"

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CHARLES WHITMAN TENNANT REGISTERED ARCHITECT 13798 NORTH CAROLINA RALEIGH

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ID	DATE	DESCRIPTION
B.	03/14/2023	ADDENDUM 2

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INTERIOR ELEVATIONS (ALTERNATE 2)

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A9-06

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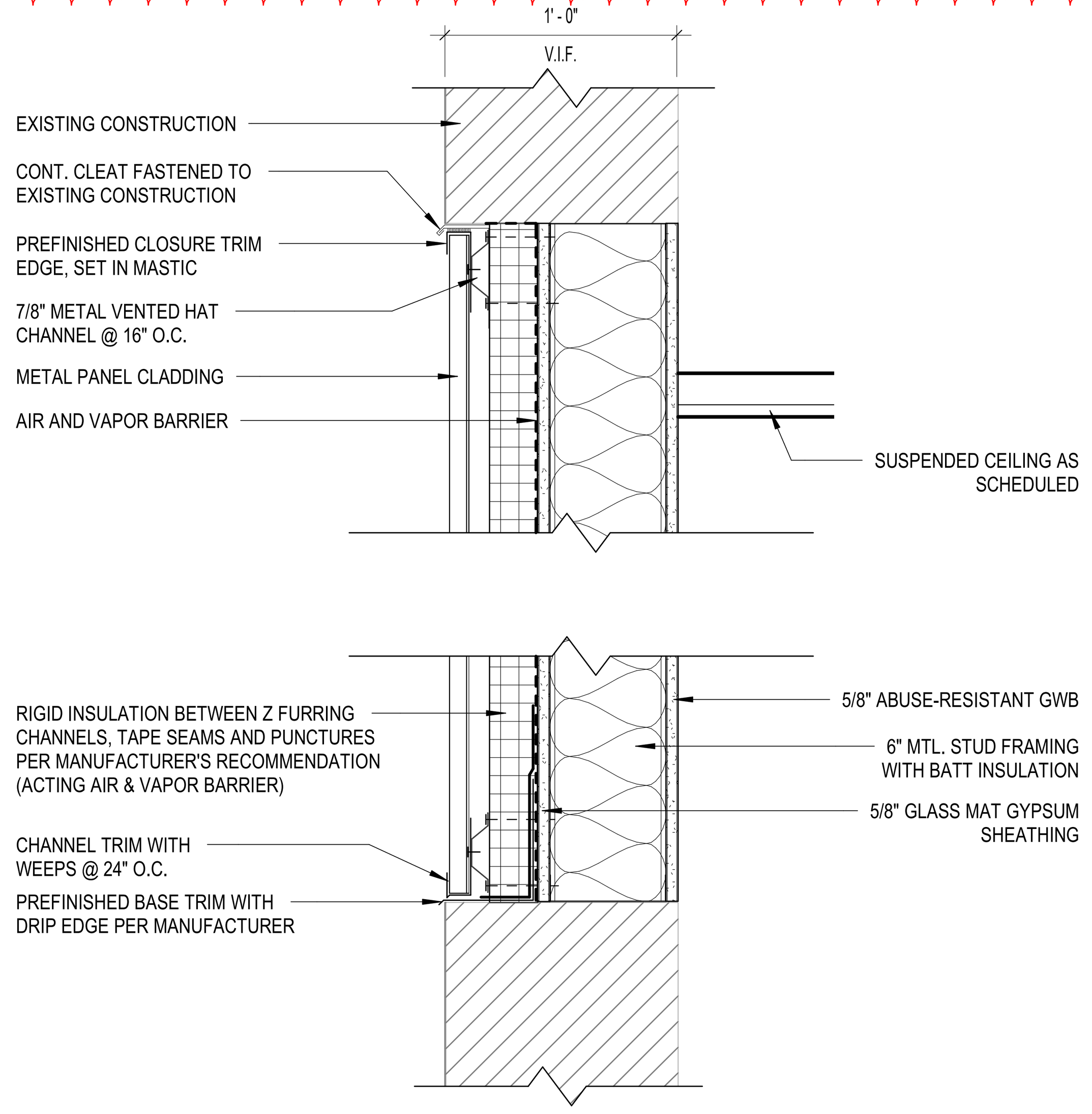
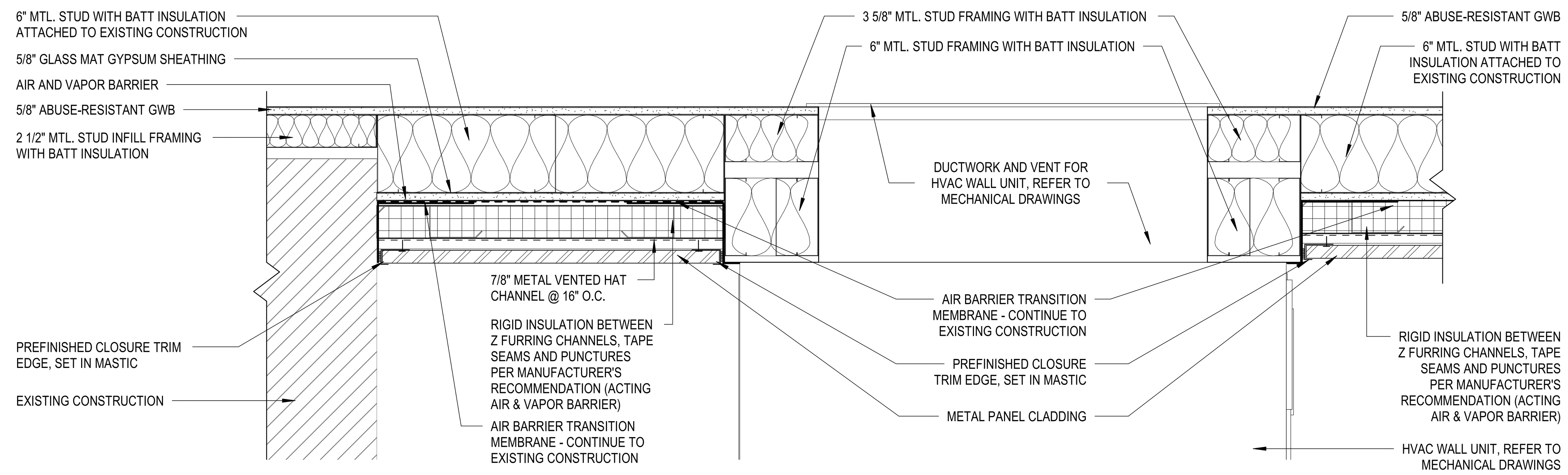
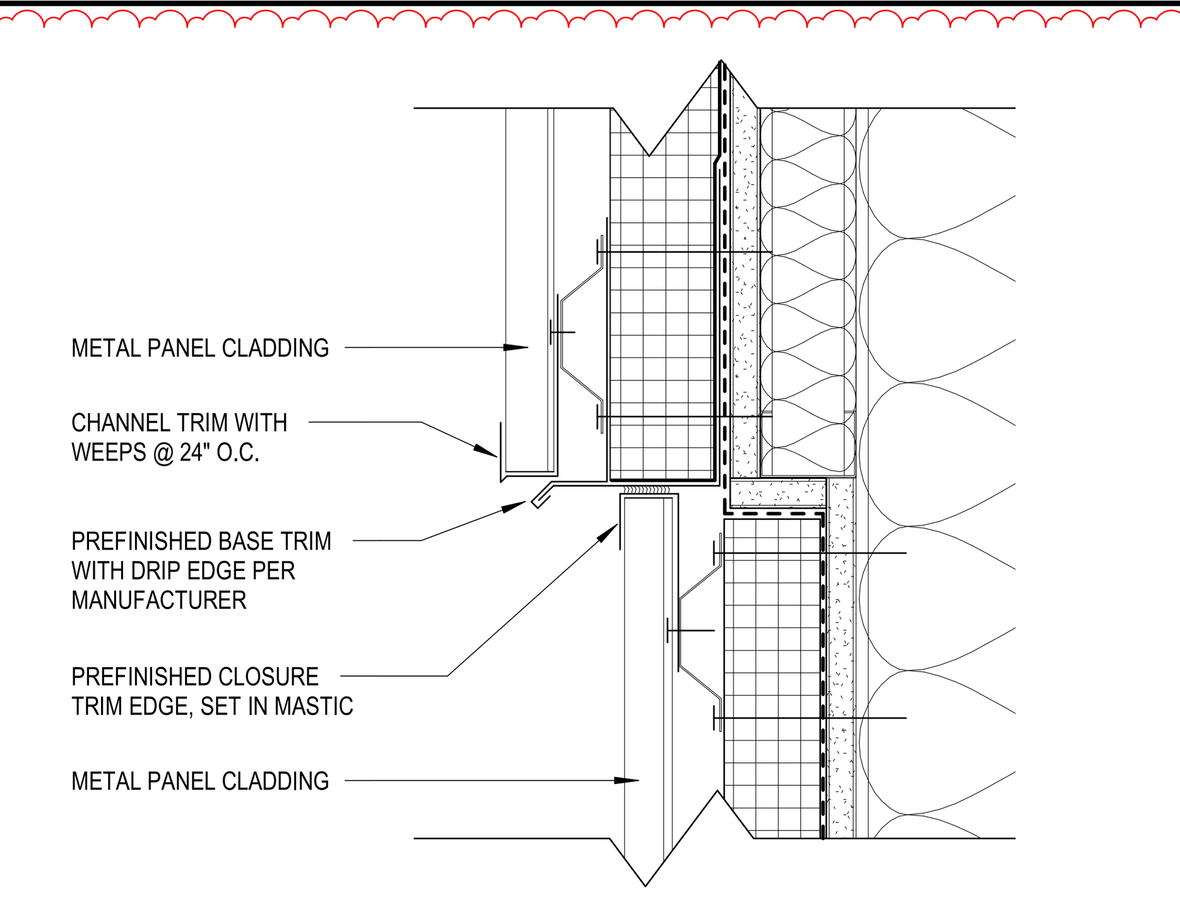


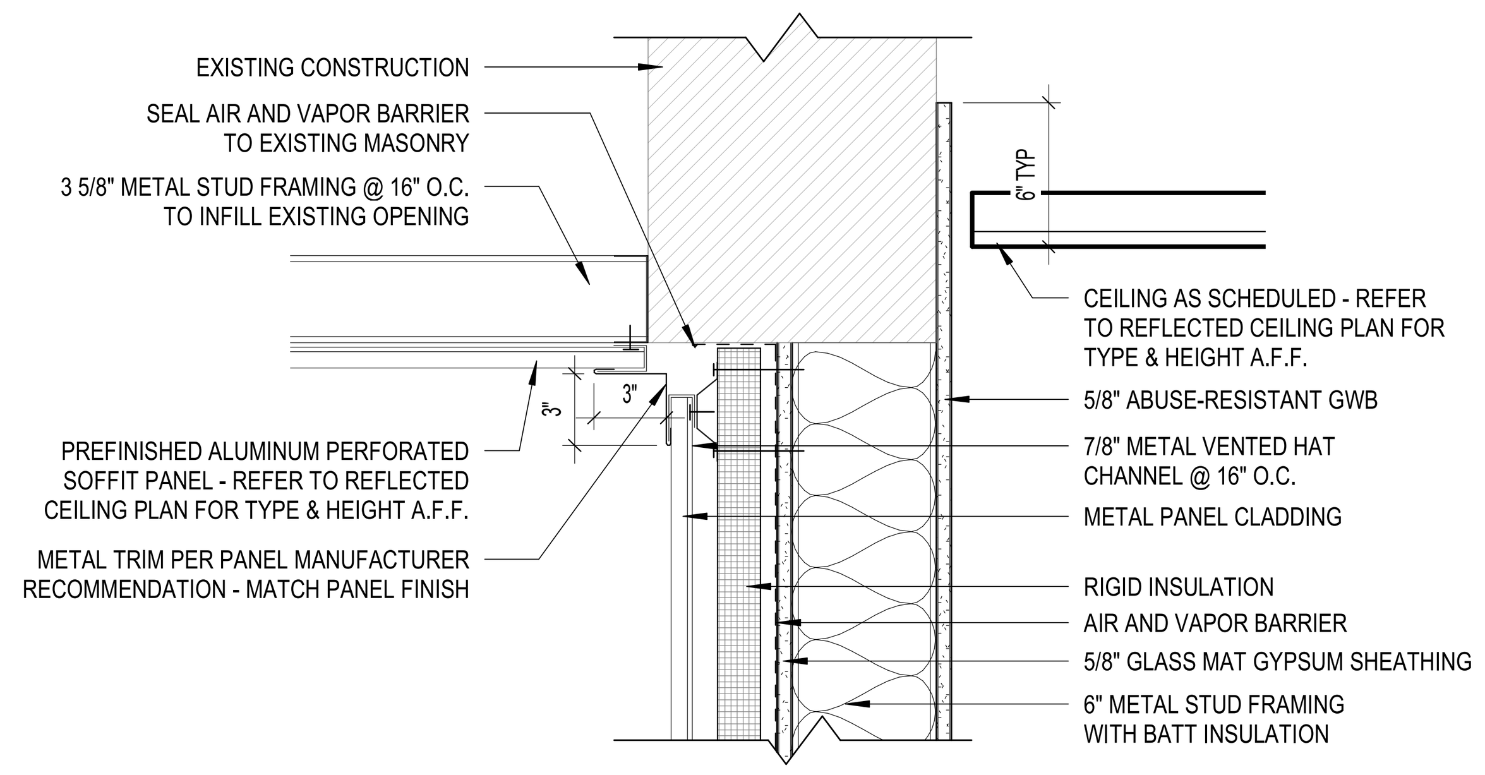
9 A9-09 **TYP. SECTION @ WINDOW INFILL**
1 1/2" = 1'-0"



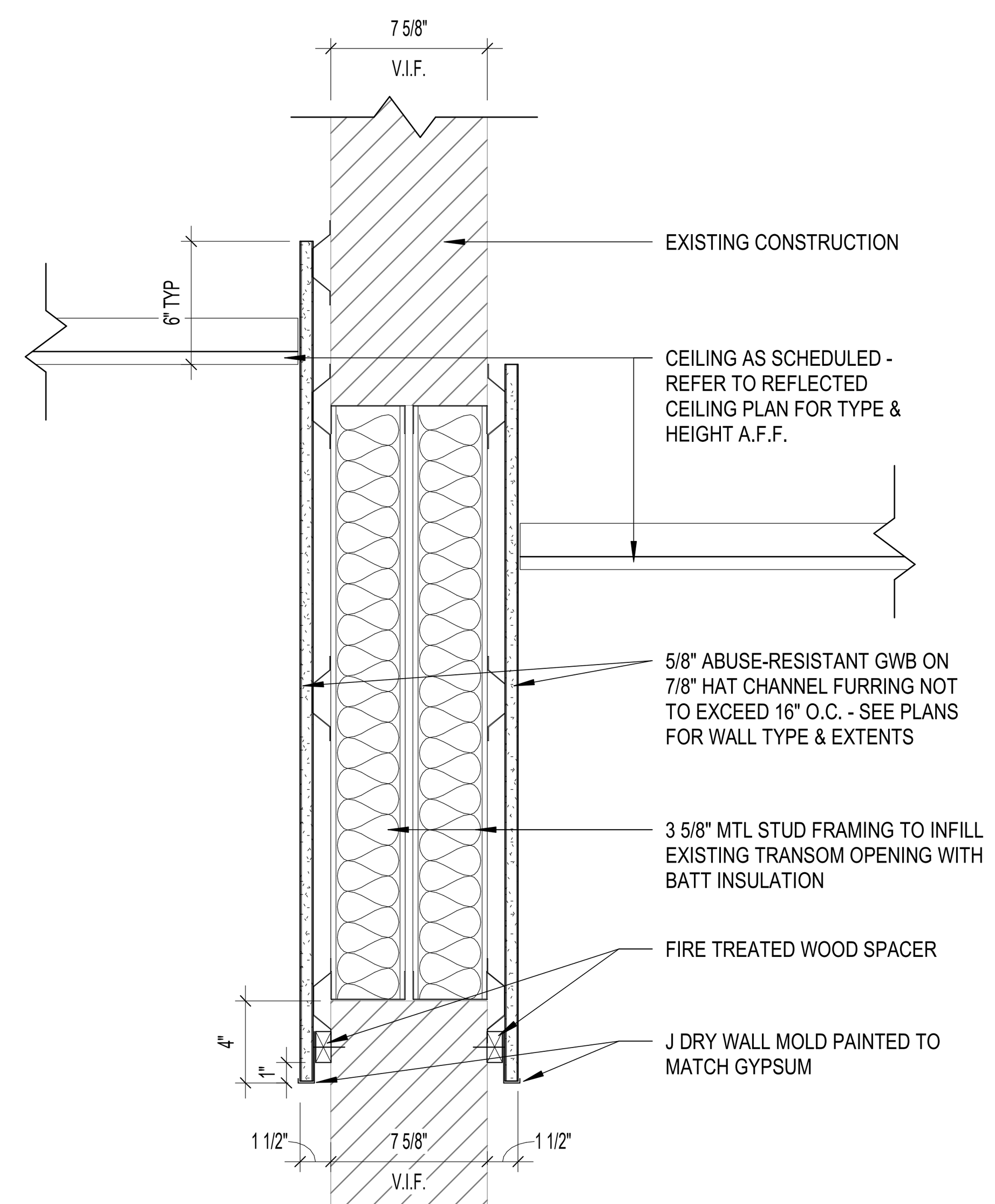
11 A9-09 **PLAN DETAIL @ HVAC WALL UNIT**
1 1/2" = 1'-0"



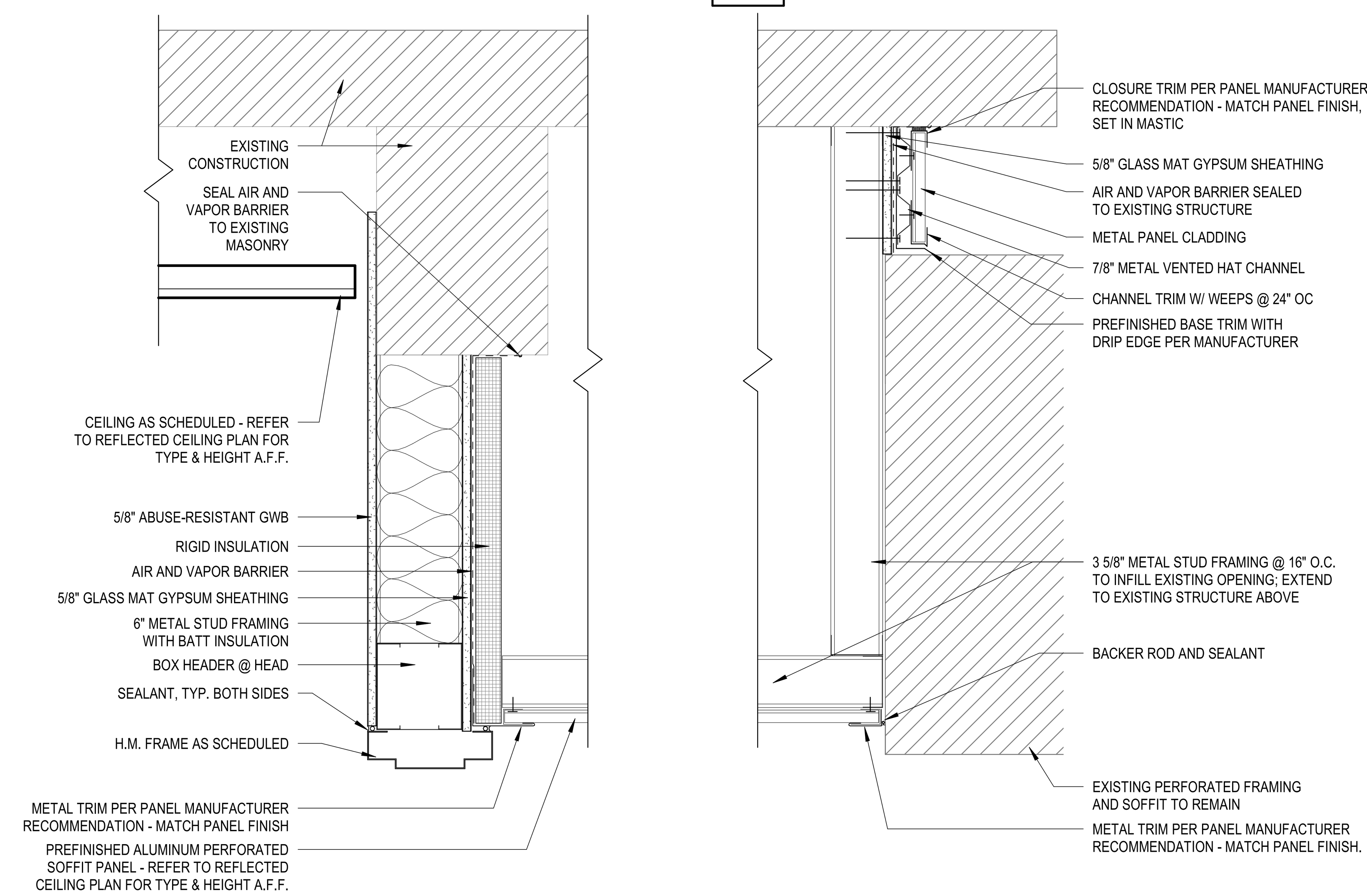
10 A9-09 **METAL PANEL CONNECTION**
3" = 1'-0"



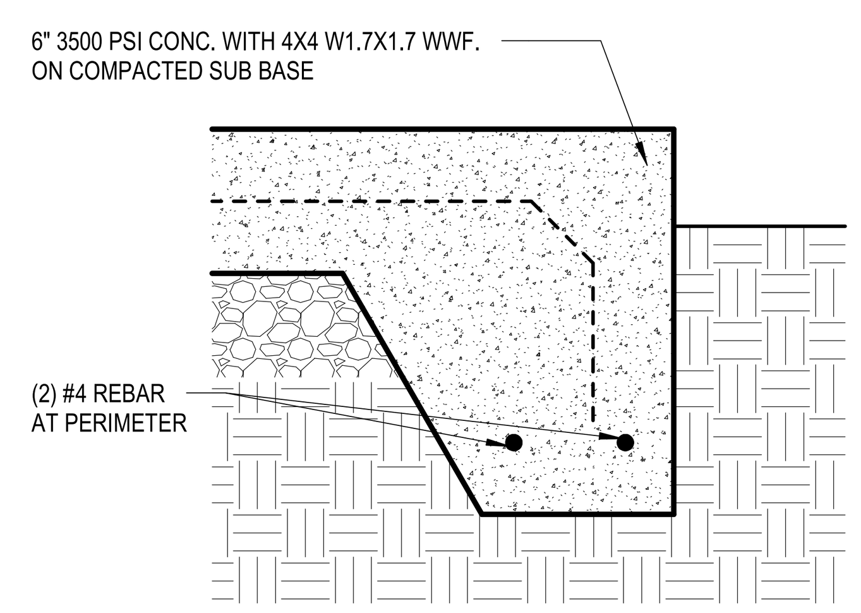
7 A9-09 **WEST EXTERIOR DOOR SECTION**
1 1/2" = 1'-0"



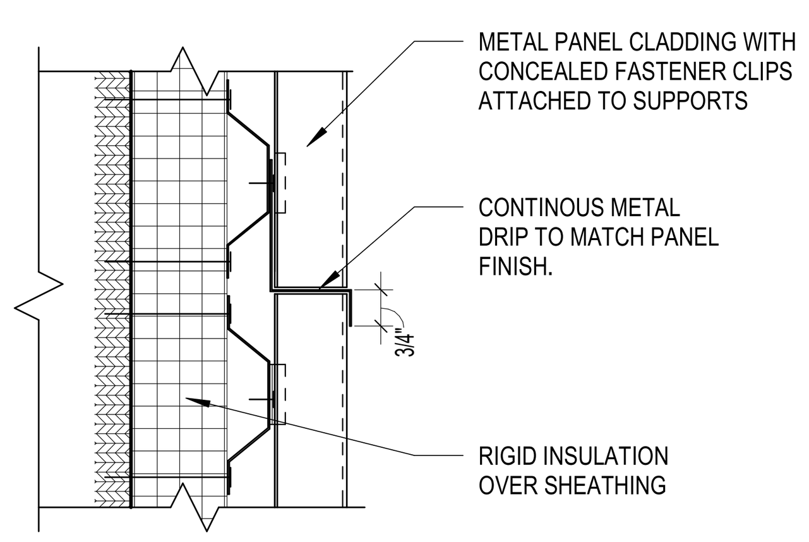
6 A9-09 **TYPICAL CORRIDOR INFILL**
1 1/2" = 1'-0"



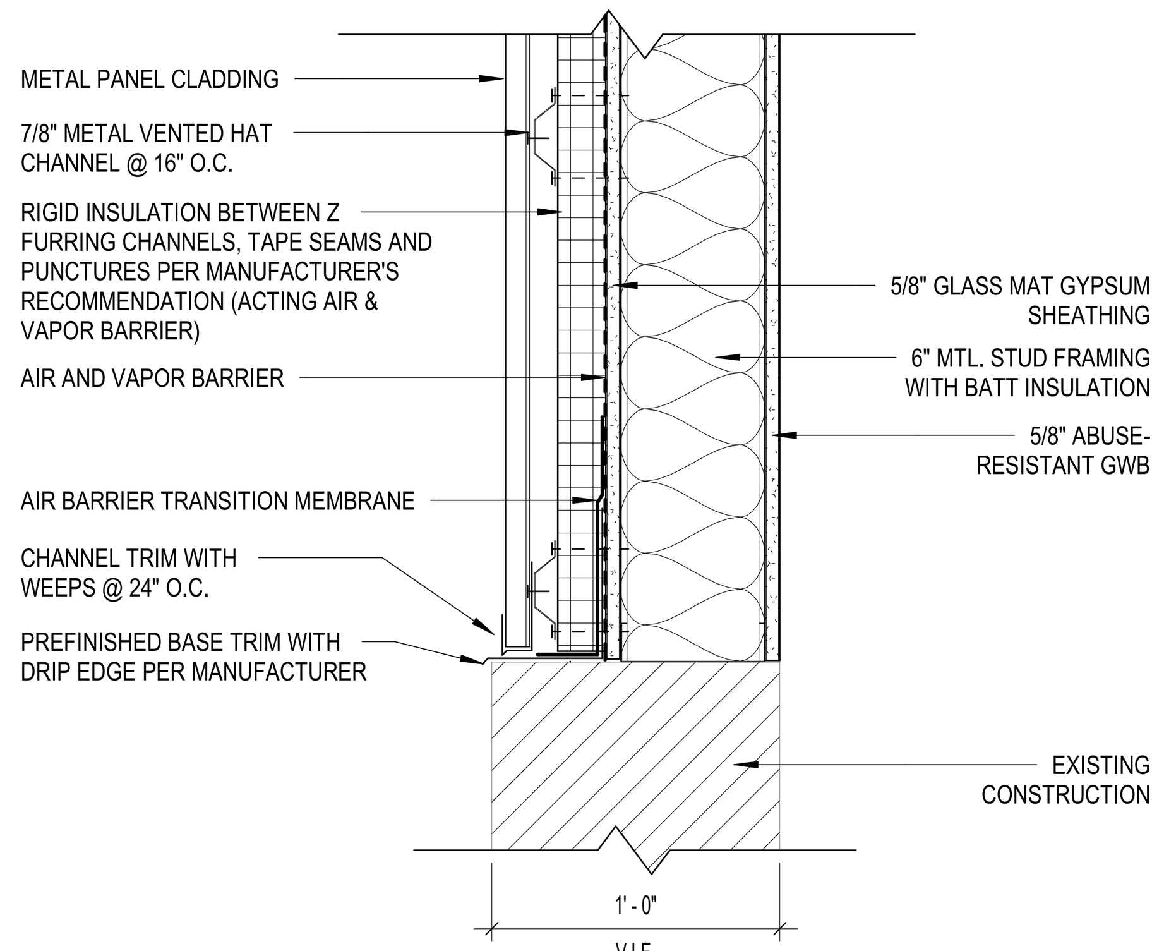
5 A9-09 **EAST EXTERIOR DOOR SECTION**
1 1/2" = 1'-0"



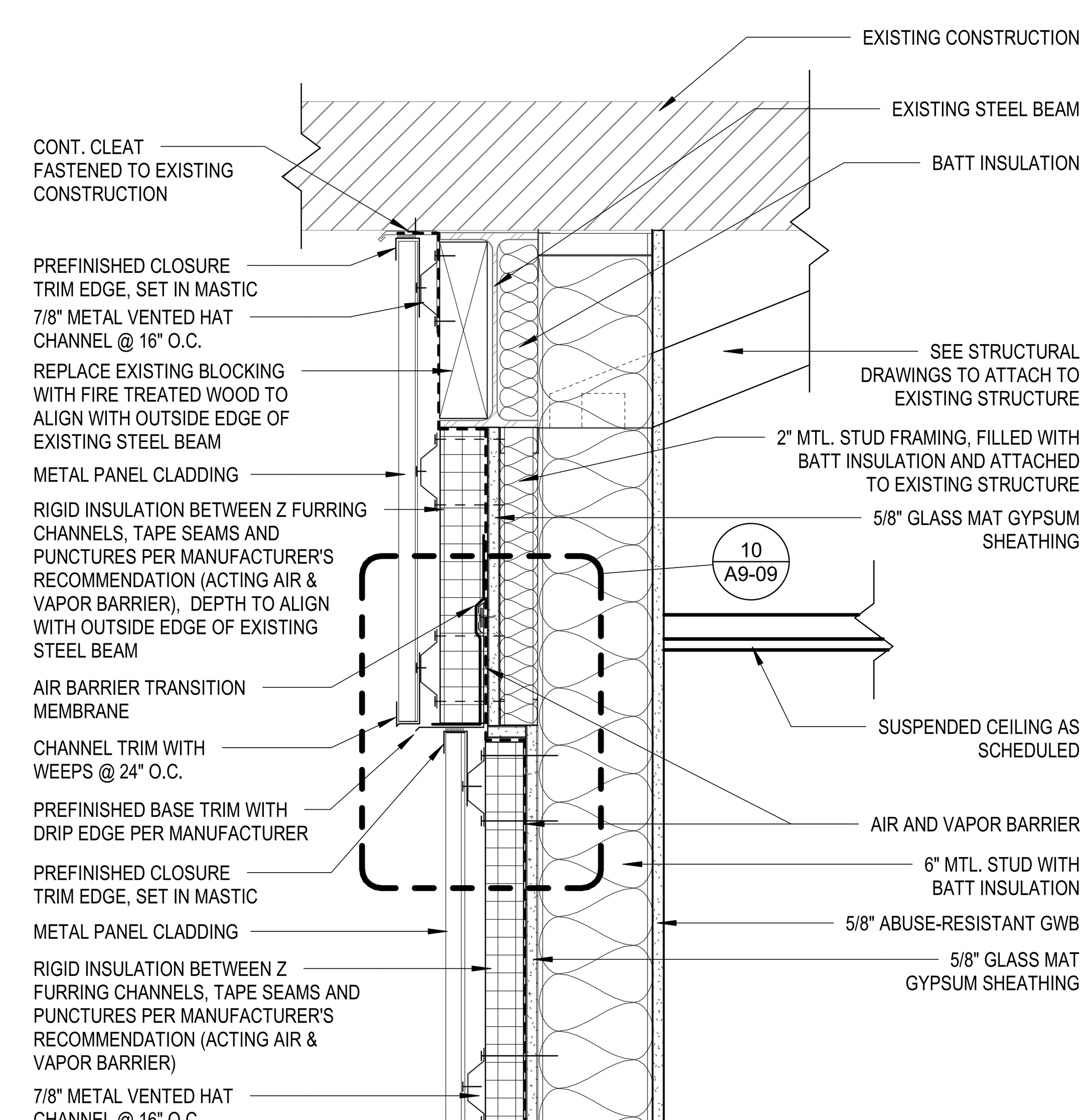
8 A9-09 **TYPICAL SECTION @ CONCRETE PAD**
1 1/2" = 1'-0"



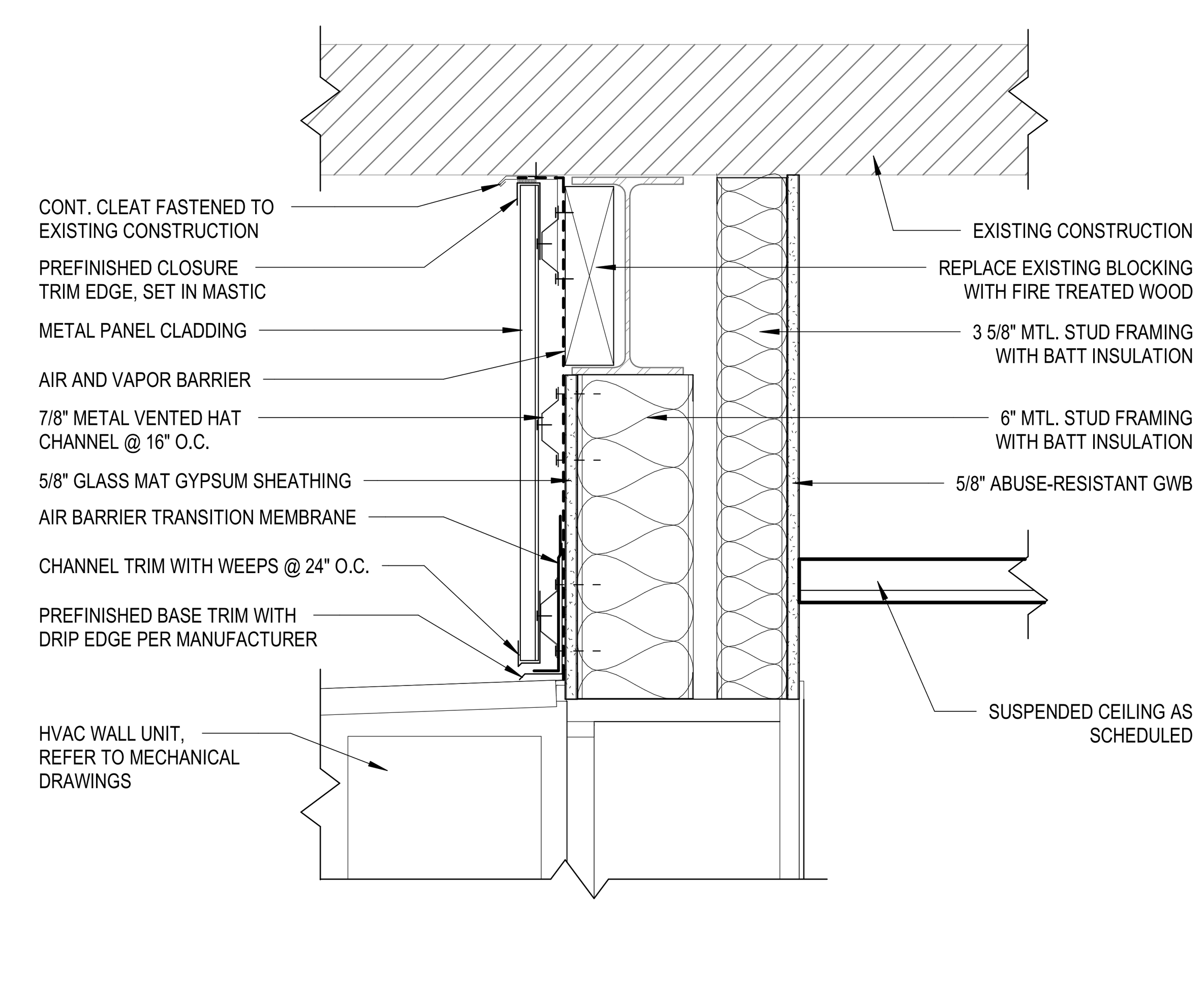
4 A9-09 **MTL PANEL - HORZ. ACCENT**
3" = 1'-0"



3 A9-09 **EXT. WALL - NEW TO EXISTING CONNECTION**
1 1/2" = 1'-0"



2 A9-09 **EXT. WALL - STACKED WALL CONNECTION**
1 1/2" = 1'-0"



NOTE: CONTRACTOR TO PROVIDE DELEGATED DESIGN THAT VERIFIES SPECIFIC FRAMING AND WALL-MOUNTING DETAILS WITH THE HVAC WALL UNIT MANUFACTURER REQUIREMENTS

1 A9-09 **EXT. WALL DETAIL @ HVAC WALL UNIT**
1 1/2" = 1'-0"

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CHARLES WHITMAN TENNANT REGISTERED ARCHITECT 13798 RALEIGH, N.C.

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ONSLOW COUNTY SCHOOLS
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112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B	03/14/2023	ADDENDUM 2

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CHECKED BY: CWT

DETAILS (ALTERNATE 2)

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A9-09

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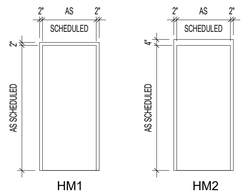
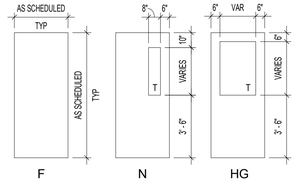


FRAME TYPES - ALT 2

1/4" = 1'-0"



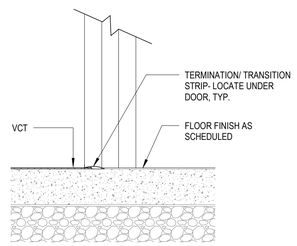
DOOR TYPES - ALT 2

1/4" = 1'-0"

DOOR SCHEDULE - ALT 2

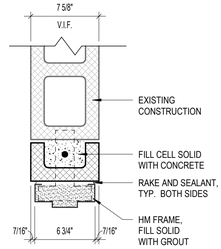
DOOR							FRAME							
	DOOR SIZE								DETAILS					
MARK	WIDTH	HEIGHT	THK	MAT	TYPE	LVS	MAT	TYPE	HEAD	JAMB	THRESH	HARDWARE SET	FIRE RATING	REMARKS
100	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
102	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
103	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
104	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
105	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
106	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
107	3' - 0"	7' - 0"	1 3/4"	SCWD	N	1	HM	HM1	5/A9-08	6/A9-08	7/A9-08	4	--	ALTERNATE 2-4
108	6' - 0"	7' - 0"	1 3/4"	HM	HG	2	HM	HM1	1/A9-08	2/A9-08	3/A9-08	8	--	ALTERNATE 2-4
109	6' - 0"	7' - 0"	1 3/4"	HM	HG	2	HM	HM1	1/A9-08	2/A9-08	3/A6-08	8	--	ALTERNATE 2-4
110	3' - 0"	7' - 0"	1 3/4"	HM	F	1	HM	HM1	4/A9-08	2/A9-08	3/A6-08	6	--	ALTERNATE 2-4

B



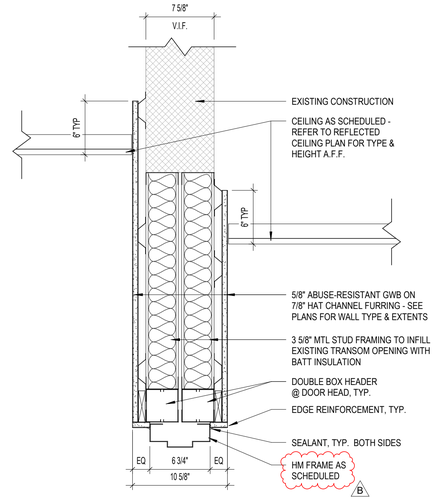
7 / A9-11 HM DOOR THRESHOLD AT INTERIOR

1 1/2" = 1'-0"



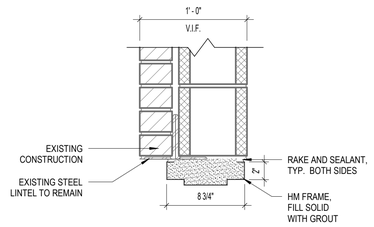
6 / A9-11 HM JAMB AT 8" CMU

1 1/2" = 1'-0"



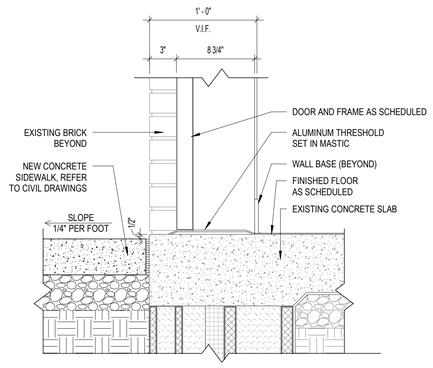
5 / A9-11 HM HEAD AT STUD WALL

1 1/2" = 1'-0"



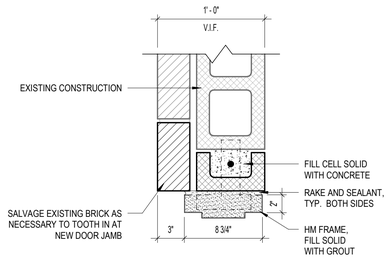
4 / A9-11 HM DOOR HEAD AT EXTERIOR STORAGE ROOM

1 1/2" = 1'-0"



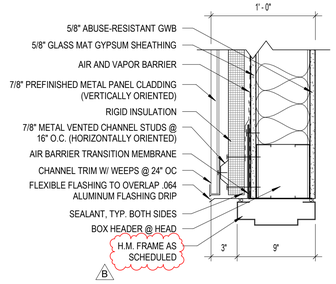
3 / A9-11 HM DOOR THRESHOLD AT EXTERIOR

1 1/2" = 1'-0"



2 / A9-11 HM DOOR JAMB AT EXTERIOR

1 1/2" = 1'-0"



1 / A9-11 HM DOOR HEAD AT EXTERIOR

1 1/2" = 1'-0"

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CHARLES WHITMAN TENNANT REGISTERED ARCHITECT 13798 NORTH CAROLINA RALEIGH

10/27

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DOOR SCHEDULE AND FRAME ELEVATIONS (ALTERNATE 2)

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A9-11

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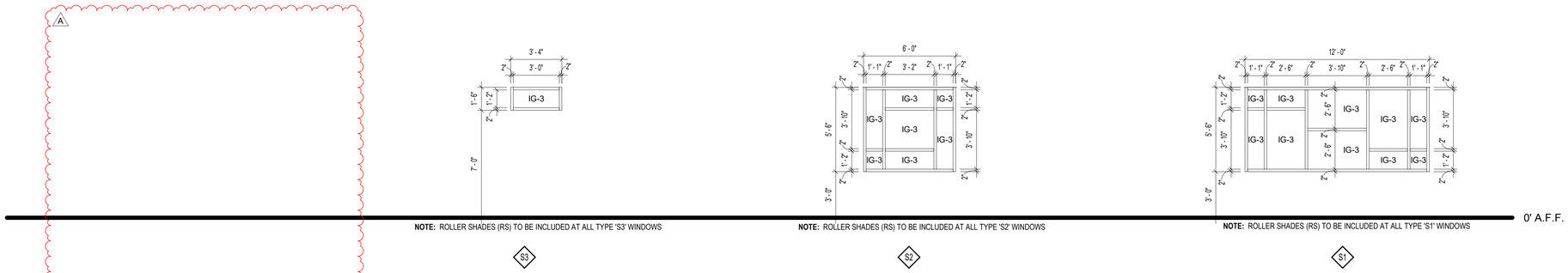


NOTE: ROLLER SHADES (RS) TO BE INCLUDED AT ALL TYPE 'S3' WINDOWS

NOTE: ROLLER SHADES (RS) TO BE INCLUDED AT ALL TYPE 'S2' WINDOWS

NOTE: ROLLER SHADES (RS) TO BE INCLUDED AT ALL TYPE 'S1' WINDOWS

LEGEND:

W__ - HM FRAME DESIGNATION

S__ - ALUMINUM STOREFRONT

GLAZING:

IG: INSULATED GLASS
DP: DOUBLE PANE

IG - 1: CLEAR
IG - 2: CLEAR TEMPERED
IG - 3: TINTED

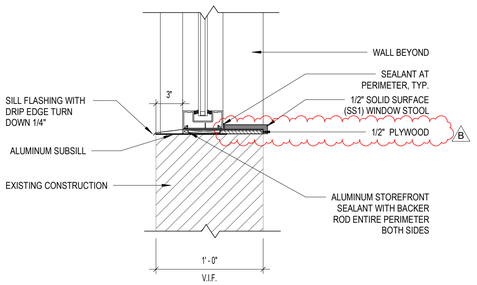
NOTES

FINISH: PAINTED METAL
REFER TO THE FOLLOWING DETAILS U.O.N.

HEAD: 1/A9-09

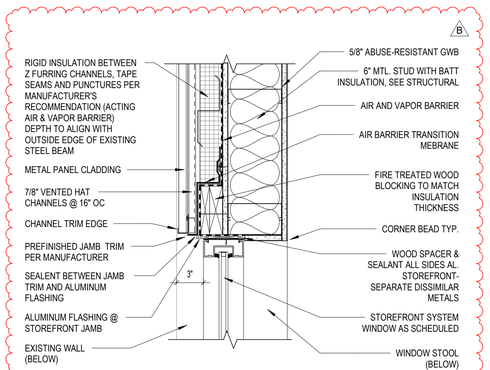
JAMB: 2/A9-09

THRESHOLD: 3/A9-09



3 / A9-12 TYP. STOREFRONT SILL - @ CMU/BRICK WALL

1 1/2" = 1'-0"



2 / A9-12 TYP. STOREFRONT JAMB

1 1/2" = 1'-0"

1 / A9-12 TYP. STOREFRONT HEAD @ MTL. PANEL WALL

1 1/2" = 1'-0"

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CHARLES WHITMAN TENNANT — REGISTERED ARCHITECT — 13798 — NORTH CAROLINA — RALEIGH, NC

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DRAWN BY: AC
CHECKED BY: CWT

WINDOW AND FRAME ELEVATIONS (ALTERNATE 2)

2022017 20 Feb 2023

A9-12

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SECTION 00 01 10 - TABLE OF CONTENTS

PROJECT: Trexler Middle School Renovation & Site Improvements
112 E. Foy Street
Richlands, NC 28574

END OF SECTION 00 01 10

SECTION 09 72 60 – TACKABLE WALLCOVERING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary General Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This section includes:
   1. Resilient cork/linoleum tackable wallcovering.
   2. Accessories

B. Related Divisions:
   1. Division 099100 Painting
   2. Division 101100 Visual Display Surfaces

1.3 SUBMITTALS

A. General: Submit the following according to Conditions of the Contract and Division 01 Specification Sections.
B. Provide shop drawing showing elevation layout, dimensions, seam locations, type of metal trim and metal corner guard materials. Also show a section illustrating the manufacturer recommended installation of metal trim and corner guard material.
C. Provide manufacturer recommend paint primer for tackable vinyl wall covering. Note only use manufacturer’s recommended paint primer.
D. Provide product data for manufacturer recommended adhesive for tackable vinyl wall covering.
E. With regard to tackable wallcovering and adhesive.
   1. Provide the manufacturer's technical information including label analysis and instructions for handling, storage, and application of each material proposed for use.
   2. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).
F. Submit samples for initial color selection in the form of manufacturer's color charts.
G. Submit samples for Verification Purposes: Provide 7 inch x 9 inch or larger samples of tackable wallcovering select colors to Architect for review.

1.4 QUALITY ASSURANCE

A. The Contractor must ensure that manufacturer’s requirements are followed in preparation of substrates and application of material. The contractor is to only use manufacturer recommended products prior to tackable wallcovering installation.
B. The Contractor is to only use the wallcovering manufacturer recommended paint primer compliant with tackable wallcovering material and substrate.
C. The Contractor is to only use the wallcovering manufacturer recommended adhesive compliant with tackable wallcovering material and substrate.

D. Installer Qualifications: Engage an experienced installer who has completed tackable wallcovering applications similar in material and extent to those indicated for the Project that have resulted in a construction record of successful in-service performance.
E. Surface Burning Characteristics Classification: Provide materials that meet classification ratings below.: ASTM E84 (Flame Spread and Smoke Developed)
F. Single Source Responsibility: Obtain tackable wallcovering system components from a single source.
G. Store materials in original, undamaged packaging inside a well-ventilated area protected from weather, moisture, soiling, and extreme temperatures. Maintain room temperature with the storage area at not less than 68 degrees Fahrenheit (20 degrees Celsius) during the period materials are stored.
H. Mock-ups: Prepare sample panel mock-up for architect review and to establish requirements for seaming and finish trim.
I. The Contractor is to follow manufacturer's installation instructions and comply with product warranty.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
   1. Product name or title of material.
   2. Product description (generic classification or binder type).
   3. Manufacturer's stock number and date of manufacturer.
   4. Contents and vehicle constituents.
   5. Application instructions.
   6. Color name and number.
   7. Product Size
   8. VOC content.
B. Store materials per manufacturer's recommendations. Maintain material in storage, in a clean condition, free of foreign materials. Protect from freezing. Keep storage area neat and orderly.

1.6 PROJECT CONDITIONS

A. Follow manufacturer's recommendations for installation of material. Maintain ambient temperature within building per manufacturers recommendation.
B. Follow manufacturer's recommendations for temperature requirements and temperature storage requirements.
C. Do not apply material in snow, rain, fog, or mist; or when the relative humidity exceeds manufacturer recommended temperatures.
   1. Wallcovering may be installed during inclement weather if surfaces and areas to be wallcovered are enclosed, weatherproof and heated within temperature limits specified by the manufacturer during application and drying periods.
   2. Do not install wall covering until temperature is stabilized and permanent lighting is in place.

PART 2 - TACKABLE WALLCOVERING PRODUCTS

2.1 TACKABLE WALLCOVERING PRODUCTS

A. Approved Manufacturers:
   1. Koroseal
   2. National Wallcovering
   3. Wolf Gordon
   4. Or manufacturer approved equal.

B. Tackable Wallcovering:

1. Basis of Design: provide Koroseal Tacwall or manufacturer approved equal.
2. Selection from Manufacturers full range of colors.
3. Finish: Smooth, matte finish
4. Tackable Wallcovering is to be Self-healing.
5. Characteristics: Dimensionally stable, flexible, exceptionally resilient to cracking or crumbling, drying, or peeling.
6. Wallcovering is to be UV resistant, no fading or yellowing of material.
7. Wallcovering is to be stain resistant.
8. Composition: Linoleum / cork wallcovering
9. Wallcovering to be low VOC compliant.
10. Material is to be Antimicrobial.
11. Width: 48 inch wide
12. Nominal Thickness: 0.25 inches (6mm)

2.2 ACCESSORY PRODUCTS

A. Metal Trim: Basis of Design: Koroseal J Trim for Tacwall or approved equal.
1. Description: JT12-00: Clear satin, anodized aluminum, ¼ inch (6 millimeter) trim (old: JTRM-00).
2. Metal base trim is to be used along bottom, top and sides of wallcovering perimeter.
3. Metal Trim Finish: All available colors for selection.
4. Suitable for thickness of specified wallcovering.
5. Follow manufacturer recommendations for cutting metal trim material. NO raw or sharp exposed ends or corners are allowed.
6. Use manufacturer recommended metal corner trim pieces.
7. Follow manufacturer installation instructions for horizontal and vertical trim.
8. Follow manufacturer installation instructions for inside and outside corners.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions under which wallcovering will be performed for compliance with manufacturer requirements. Surfaces receiving wallcovering must be thoroughly dry before wallcovering is applied.
1. Complete finishing operations, including painting, before beginning installation of tackable wallcovering materials.
2. Wall surfaces to receive wallcovering materials shall be free of screws, nails, or any other hardware.
3. Wall surfaces to receive wallcovering materials shall be dry and free from dirt, grease, loose paint, and scale.
4. Notify the General Contractor and Architect in writing of any conditions detrimental to the proper and timely completion of the installation.
5. Do not begin to apply wallcovering until unsatisfactory conditions have been corrected.
6. Start of wallcovering will be construed as the Architect’s acceptance of surfaces and conditions within a particular area.

3.2 PREPARATION

A. Surface Preparation: Remove hardware, plates, accessories, and similar items to allow tackable wallcovering to be installed.
1. Determine alkalinity and moisture content of wall surfaces by performing appropriate manufacturer recommended tests. Do not install wallcovering on surfaces where moisture content exceeds that permitted in manufacturer's printed directions.
2. Plaster surface: Remove surface chalk. In new work, use moisture meter to determine moisture content. Do not begin installation when moisture content is greater than five percent.
3. Gypsum board surfaces: Recess nails and screws. Repair irregular tape joints, sand and remove dust.
4. Painted surface: Remove loose paint or scale. Sand surface of enamel or gloss paint and wipe clean with damp cloth.
5. **Ensure wall surfaces scheduled to receive tackable wallcovering are properly sealed with a quality primer specified for use under flexible vinyl wallcoverings.**
6. Notify Architect in writing about anticipated problems.

B. General: Remove screws, hardware and hardware accessories, plates and similar items prior to surface preparation and wallcovering. Remove these items, to complete wallcovering surfaces. Following completion of wallcovering operations in each space or area, have items reinstalled by workers skilled in the trades involved.

C. Cleaning: Before applying wallcovering or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. **Follow manufacturer guidelines for cleaning surfaces to receive wallcovering.** Follow manufacturer installation and maintenance instructions for material. **Include precautions against cleaning materials and methods that may be detrimental to finishes and performance.** Schedule cleaning and surfaces.

D. Surface Preparation: Clean and prepare surfaces in accordance with manufacturer's instructions for substrate condition.

3.3 APPLICATION

A. General: Apply wallcovering according to manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
1. Provide manufacturer recommended primer for material.
2. Provide manufacturer recommended adhesives.
3. Cut and hang sheets in accordance with manufacturer installation instructions.
4. Do not install unless HVAC system is on and working. Permanent HVAC system should be set to 68 degrees Fahrenheit (20 degrees Celsius) for at least seventy-two hours prior to, during, and after the installation.
5. Follow manufacturer recommendation for release of curl memory.
6. For seamed applications use manufacturer recommended tools. Follow manufacturer cutting and installation guidelines.
7. Scribe, cut, and fit material per manufacturer recommendations.
8. Apply adhesive per manufacturer recommendations.
9. Remove adhesive residue immediately after each panel is hung with a mild soap/water solution and a soft cloth/sponge. Follow manufacturer’s recommendations for removal of adhesive residue.

3.4 PROCEDURES

A. Apply material per manufacturer’s strict installation instructions. Only use tools according to the manufacturer's directions.
1. Rollers: Use manufacturer recommended rollers.

2. Knifes: Use manufacturer recommended knifes.

3.5 WARRANITY

Submit manufacturer's 5 year written warranty against manufacturing defects.

3.6 CLEANING AND PROTECTION

A. Cleanup: At the end of each workday, remove trash, rags, and other discarded wallcovering scraps from the site.
   1. Clean wallcovering using a sponge with a neutral pH cleaning solution. Do not use abrasive cleaners. Rinse thoroughly with water and let dry before using.
   2. It is important to remove adhesive while wet.
   3. Be careful not to scratch or damage adjacent finished surfaces.

B. Protection:
   1. Protect work of other trades, against damage. Correct damage by cleaning per manufacturer recommendations, repairing or replacing, as acceptable to Architect.
   2. Provide signs to protect newly installed wallcovering finishes from damage during construction.
   3. Provide maintenance manual for material and future upkeep.

END OF SECTION 09 72 60

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ADDENDUM 02 – MECHANICAL

DATE: March 14, 2023

PROJECT: Trexler Middle School Renovation & Site
PDC Project No. 21007

NORTH CAROLINA PROFESSIONAL SEAL 025020 ENGINEER STEVE W. CAMPBELL
03/14/2023

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Specifications:

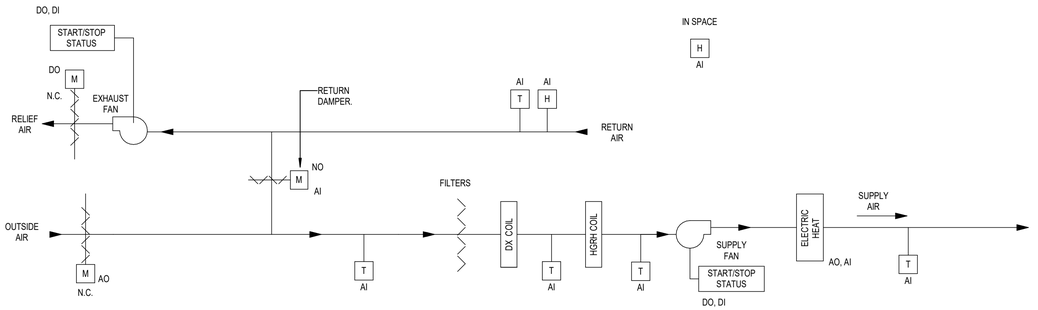
1. Specification 23 09 23
   a. Delete this section from the project entirely.

Changes to Drawings:

1. Drawing M6-01
   a. Deleted BACnet integration points
2. Drawing M6-02
   a. Deleted BACnet integration points and BAS control of units. Slight modifications to sequence.

END OF ADDENDUM 02 – MECHANICAL

Attachments: See list above.



VERTICAL PACKAGE HEAT PUMP

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SEQUENCE OF OPERATION (VERTICAL PACKAGE HEAT PUMP)

THE UNIT MANUFACTURER'S FACTORY SUPPLIED CONTROLLER SHALL CONTROL THE GENERAL OPERATION OF THE UNIT. THE UNIT SHALL OPERATE AS A SINGLE-ZONE UNIT.

THE UNIT SHALL BE STARTED UP AND COMMISSIONED BY THE MECHANICAL IN COORDINATION WITH THE AUTHORIZED FACTORY REPRESENTATIVE.

ON A CALL FOR COOLING, THE UNIT'S CONTROLLER SHALL STAGE COOLING CAPACITY VIA THE UNIT'S COMPRESSORS AND SUPPLY FAN.

ON A CALL FOR HEATING, THE UNIT'S CONTROLLER SHALL STAGE HEATING CAPACITY. THE HEAT PUMP SHALL BE THE FIRST STAGE OF HEATING. AUXILIARY ELECTRIC HEAT SHALL BE THE SECOND STAGE OF HEATING. THE AUXILIARY ELECTRIC HEAT SHALL BE LOCKED OUT ABOVE 40 DEG F (ADJ).

GENERAL ZONING/SCHEDULING

ALL THERMOSTATS SHALL HAVE SETPOINT ADJUSTMENT AND OVERRIDE BUTTON. IF AN OVERRIDE BUTTON ASSOCIATED WITH THE UNIT IS PUSHED DURING NORMALLY OCCUPIED TIMES, NO CHANGE IN OPERATION WILL OCCUR. IF AN OVERRIDE BUTTON IS PUSHED DURING NORMALLY UNOCCUPIED TIMES, THE UNIT SHALL TURN ON AND OPERATE IN THE OCCUPIED MODE FOR THE PROGRAMMED TIME DURATION (SET DEFAULT FOR TWO HOURS).

SCHEDULING
REGULAR SCHEDULING: EACH ZONE SHALL HAVE REGULAR, DAY-TO-DAY SCHEDULE OF OCCUPIED HOURS. THE OWNER SHALL BE CONSULTED DURING THE SUBMITTAL PHASE TO ESTABLISH ALL SCHEDULES. THE HVAC EQUIPMENT IN EACH ZONE WILL START EARLY ENOUGH SO THAT THE SPACE TEMPERATURES IN EACH ZONE ARE AT SETPOINT BY THE BEGINNING OF OCCUPIED HOURS.

HOLIDAYS: HOLIDAYS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE. DURING SCHEDULED HOLIDAYS, THE ZONES REMAIN IN UNOCCUPIED MODE. CONSULT THE OWNER ON HOLIDAY SCHEDULING.

SPECIAL EVENT SCHEDULING: SPECIAL EVENTS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE DURING WHICH A ZONE WILL OPERATE IN OCCUPIED MODE REGARDLESS OF THE ZONE'S REGULAR SCHEDULE OR SCHEDULED HOLIDAYS.

ECONOMIZER MODE

IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE RETURN AIR TEMPERATURE AND THE OUTSIDE AIR ENTHALPY IS LESS THAN 28 BTU/LB (ADJ), THE UNIT SHALL ENTER ECONOMIZER MODE. IN ECONOMIZER MODE, THE WHEEL SHALL BE BYPASSED AND THE OUTSIDE AIR VOLUME SHALL BE ALLOWED TO GO UP TO 100% AS NEEDED TO MEET THE COOLING LOAD. ONCE ECONOMIZER MODE IS ENABLED, IT SHALL RUN FOR 15 MINUTES MINIMUM.

IN MORNING WARMUP / COOL DOWN, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN.

DEHUMIDIFICATION

IF A SPACE RELATIVE HUMIDITY SENSOR ASSOCIATED WITH THE UNIT REACHES 65% (ADJ), THE AHU SHALL ENTER DEHUMIDIFICATION MODE.

IN DEHUMIDIFICATION MODE, THE UNIT SHALL EXIT CURRENT OPERATING MODE AND THE COOLING COIL LEAVING AIR TEMPERATURE SHALL BE RESET TO 53 DEG F (ADJ). THE HOT GAS REHEAT SHALL BE ENABLED AND MODULATE TO AVOID OVERCOOLING THE SPACE. ONCE THE HUMIDITY DROPS BELOW 60% (ADJ), THE UNIT SHALL EXIT DEHUMIDIFICATION MODE AND RETURN TO PREVIOUS CONTROL.

SETPOINTS
SUGGESTED SETPOINTS TO START ARE AS FOLLOWS:

OCCUPIED COOLING:	74 DEG F
OCCUPIED HEATING:	69 DEG F
UNOCCUPIED COOLING:	80 DEG F
UNOCCUPIED HEATING:	65 DEG G
DEHUMIDIFICATION:	65% RH MAX

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PDC #21007

NORTH CAROLINA PROFESSIONAL SEAL 025020 ENGINEER STEVE W. CAMPBELL

03/14/2023

BID/PERMIT SET

THIS DRAWING IS FORMATTED TO BE PRINTED ON A 24" X 36" SHEET

ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B	03/14/23	Addendum 02

DRAWN BY: JAV
CHECKED BY: SWC

VPHP CONTROLS

2022017 20 FEB 2023

M6-01

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VRF HEAT RECOVERY SYSTEM SEQUENCE OF OPERATIONS

A PROGRAMMABLE MANUFACTURER FURNISHED CENTRAL CONTROLLER, SUPPLIED BY THE VRF SYSTEM MANUFACTURER, CAPABLE OF STAND-ALONE OPERATION WILL CONTROL THE VRF SYSTEM.

THE OWNER SHALL BE CONSULTED DURING THE SUBMITTAL PHASE TO ESTABLISH ALL SCHEDULES. AN OPTIMIZED START ALGORITHM SHALL BE USED. THE HVAC EQUIPMENT IN EACH ZONE WILL START EARLY ENOUGH SO THAT THE SPACE TEMPERATURES IN EACH ZONE ARE AT SETPOINT BY THE BEGINNING OF OCCUPIED HOURS. (NOTE: IN SOME CASES, THE OCCUPIED AND UNOCCUPIED SET POINTS MAY BE THE SAME).

HOLIDAYS: HOLIDAYS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE. DURING SCHEDULED HOLIDAYS, THE ZONES REMAIN IN UNOCCUPIED MODE. CONSULT THE OWNER ON HOLIDAY SCHEDULING.

SPECIAL EVENT SCHEDULING: SPECIAL EVENTS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE DURING WHICH A ZONE WILL OPERATE IN OCCUPIED MODE REGARDLESS OF THE ZONE'S REGULAR SCHEDULE OR SCHEDULED HOLIDAYS.

1. GENERAL: THESE UNITS ARE CONSTANT AIR VOLUME UNITS WITH A SUPPLY FAN AND DX REFRIGERANT COIL FOR COOLING AND HEATING. THE OUTSIDE UNIT IS A HEAT PUMP VRF CONDENSING UNIT, MEANING INDOOR UNITS IN CONNECTED TO THE SAME OUTDOOR UNIT MUST BE IN THE SAME MODE OF OPERATION.
2. FAN CONTROL (GENERAL): THE VRF INDOOR UNIT SUPPLY AIR FANS SHALL BE COMMANDED TO RUN BASED ON A USER DEFINED TIME OF DAY SCHEDULE.
3. NIGHT SETBACK MODE: IN NIGHT SETBACK MODE, THE SUPPLY AIR FAN SHALL BE INDEXED OFF AND SHALL REMAIN OFF UNTIL THE START OF AN OCCUPIED CYCLE OR NIGHT HIGH OR NIGHT LOW LIMIT CYCLE. ON A RISE IN SPACE TEMPERATURE ABOVE THE NIGHT HIGH LIMIT SETPOINT (NHL, 75°F ADJ.) THE CENTRAL CONTROLLER SHALL ENABLE THE CENTRAL OUTSIDE UNIT AND THE BRANCH CONTROLLER SHALL METER REFRIGERANT AS REQUIRED TO PROVIDE COOLING TO THAT ZONE'S INDOOR UNIT. THE INDOOR UNITS SHALL BE ENABLED. ON A DROP IN SPACE TEMPERATURE, THE REVERSE SHALL OCCUR. ON A DROP IN SPACE TEMPERATURE BELOW THE NIGHT LOW LIMIT SETPOINT (NLL, 70°F ADJ.) THE CENTRAL CONTROLLER SHALL ENABLE THE CENTRAL OUTSIDE UNIT AND THE BRANCH CONTROLLER SHALL METER REFRIGERANT AS REQUIRED TO PROVIDE HEATING CAPACITY TO THAT ZONE'S INDOOR UNIT. THE INDOOR UNITS SHALL BE ENABLED. ON A RISE IN SPACE TEMPERATURE, THE REVERSE SHALL OCCUR. IN NIGHT SETBACK MODE, A ZONE MAY BE TEMPORARILY OVERRIDDEN AT THE ZONE SENSOR BY AN OCCUPANT. THE ZONE WILL ENTER OCCUPIED MODE FOR TWO HOURS. AFTER TWO HOURS EXPIRE, THE ZONE SHALL RETURN TO NIGHT SETBACK MODE UNLESS THE OCCUPANT INTERVENES AGAIN.
4. OCCUPIED MODE: IN OCCUPIED MODE, THE SUPPLY FANS SHALL RUN CONTINUOUSLY. HEATING OR COOLING CAPACITY SHALL BE PROVIDED BY THE CENTRAL CONDENSING UNIT VIA THE BRANCH CONTROLLER TO MEET LOAD REQUIREMENTS AND MAINTAIN SETPOINT IN EACH ZONE. FAN SPEED AND DISCHARGE AIR TEMPERATURE SHALL BE ALLOWED TO MODULATE TO MAINTAIN SPACE TEMPERATURE AS REQUIRED.
5. TEMPERATURE CONTROL: DURING OCCUPIED MODE, ON A RISE IN ZONE SPACE TEMPERATURE ABOVE SETPOINT (75° F, ADJ.), THE CENTRAL OUTSIDE UNIT SHALL BE ENABLED AND THE BRANCH CONTROLLER SHALL METER THE REFRIGERANT TO THAT ZONE'S INDOOR UNIT TO PROVIDE COOLING. ON A DROP IN SPACE TEMPERATURE BELOW COOLING SETPOINT (PLUS DEADBAND), THE REVERSE SHALL OCCUR. ON A DROP IN ZONE SPACE TEMPERATURE BELOW HEATING SETPOINT (70°F, ADJ), THE CENTRAL OUTSIDE UNIT SHALL BE ENABLED AND THE BRANCH CONTROLLER SHALL METER THE REFRIGERANT TO THAT ZONE TO PROVIDE HEATING. ON A RISE IN SPACE TEMPERATURE ABOVE THE HEATING SETPOINT (PLUS DEADBAND), THE REVERSE SHALL OCCUR. THE CENTRAL OUTSIDE UNIT CAN PROVIDE SIMULTANEOUS HEATING AND COOLING CAPACITY TO DIFFERENT INDOOR UNITS.
6. UPON A SIGNAL FROM ANY SMOKE DETECTOR ASSOCIATED WITH THE UNIT THE SUPPLY FAN SHALL BE DE-ENERGIZED VIA THE FACP RELAY MODULE (HARDWIRED INTERLOCK).

B

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NORTH CAROLINA PROFESSIONAL SEAL 025020 ENGINEER STEVE W. CAMPBELL

03/14/2023

BID/PERMIT SET

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ONSLOW COUNTY SCHOOLS
TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS
112 E FOY STREET RICHLANDS, NC 28574

ID	DATE	DESCRIPTION
B	03/14/23	Addendum 02

DRAWN BY: JAV
CHECKED BY: SWC

VRF CONTROLS

2022017 20 FEB 2023

M6-02

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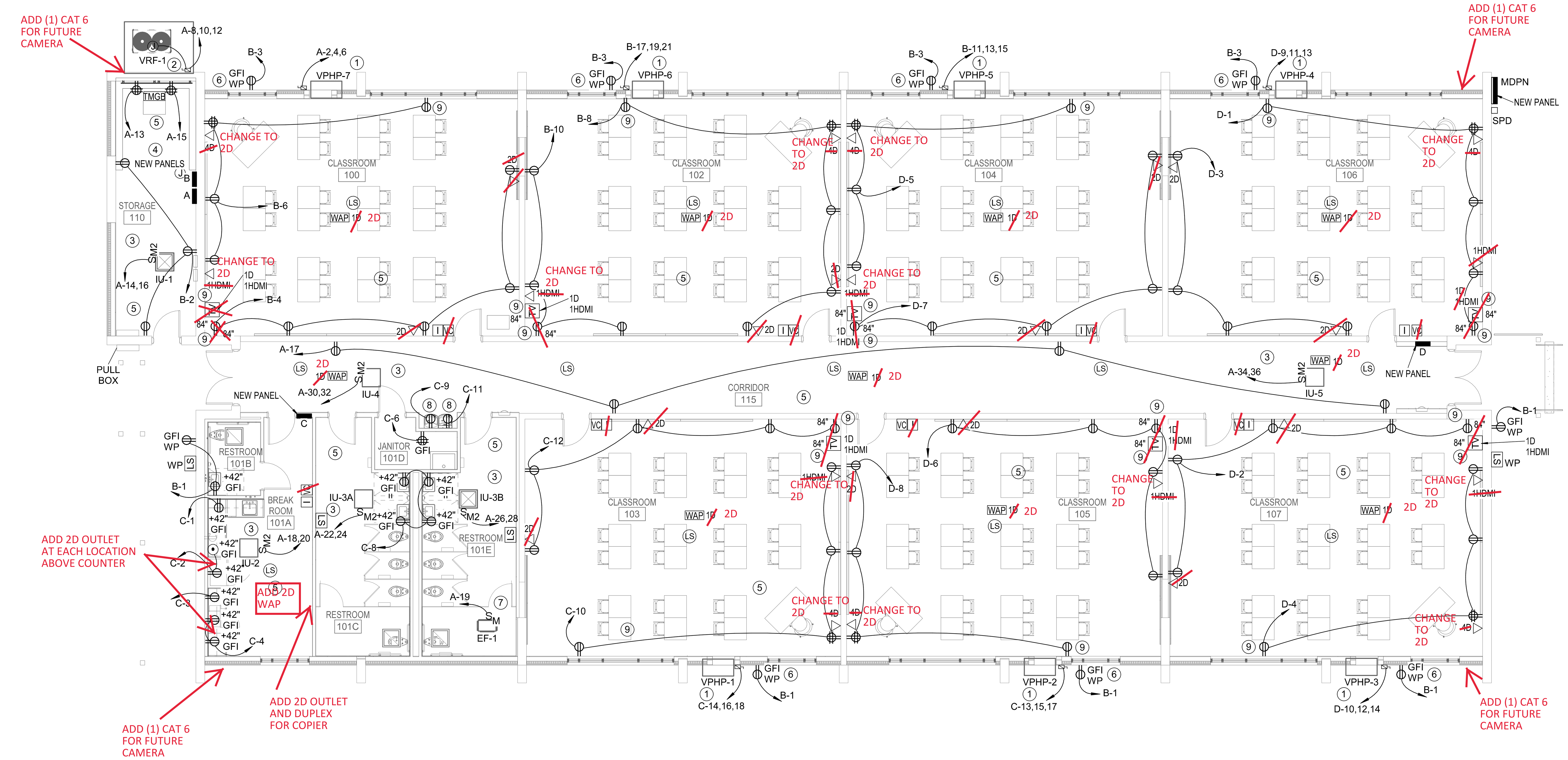
KEYNOTES:

1. PROVIDE 60A, 240V, 3P, NEMA-3R, FUSED DISCONNECT SWITCH FOR NEW BARD UNIT. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE 60A, 240V, 3P, NEMA-3R, FUSED DISCONNECT SWITCH FOR NEW VRF UNIT. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE 20A, 240V, 2P, MOTOR RATED SWITCH FOR INTERIOR VRF UNITS. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
4. RELOCATE EXISTING DATA/COMM RACK AND ASSOCIATED MAIN DATA WIRING FROM SCHOOL MDF TO LOCATION SHOWN. ROUTE NEW DATA WIRING FROM CLASSROOMS BACK TO NEW LOCATION IN EXPOSED CONDUIT AND SURFACE MOUNT WIREMOLD.
5. ALL NEW CONDUIT RUN IN BUILDING IS TO BE SURFACE MOUNTED WITH WIREMOLD MOUNTED INLINE FOR RECEPTACLES AND DATA USE IN CLASSROOMS, DATA, AND BREAKROOMS AND SURFACE MOUNTED BOXES IN RESTROOMS.
6. PROVIDE WEATHER PROOF GFI RECEPTACLE AT UNIT SHOWN FOR SERVICE RECEPTACLE POWER. SEE PANEL SCHEDULE FOR FEEDER AND WIRE SIZE. CONNECT 120V, 1P CIRCUIT IN PANEL AS SHOWN.
7. PROVIDE 20A, 120V, 1P, MOTOR RATED SWITCH FOR EXHAUST FAN. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
8. COORDINATE PLACEMENT WITH EQUIPMENT FINAL LOCATION PRIOR TO ROUGH-IN.
9. IN CLASSROOMS ONLY THIS DEVICE IS IN A SURFACE MOUNTED BOX AT THIS LOCATION.

Owner will provide a new two-post rack to be installed.



1 First Floor Power Plan Alternate Bids 2-1 - 2-3

1/8" = 1'-0"

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02/17/2023

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ONSLOW COUNTY SCHOOLS
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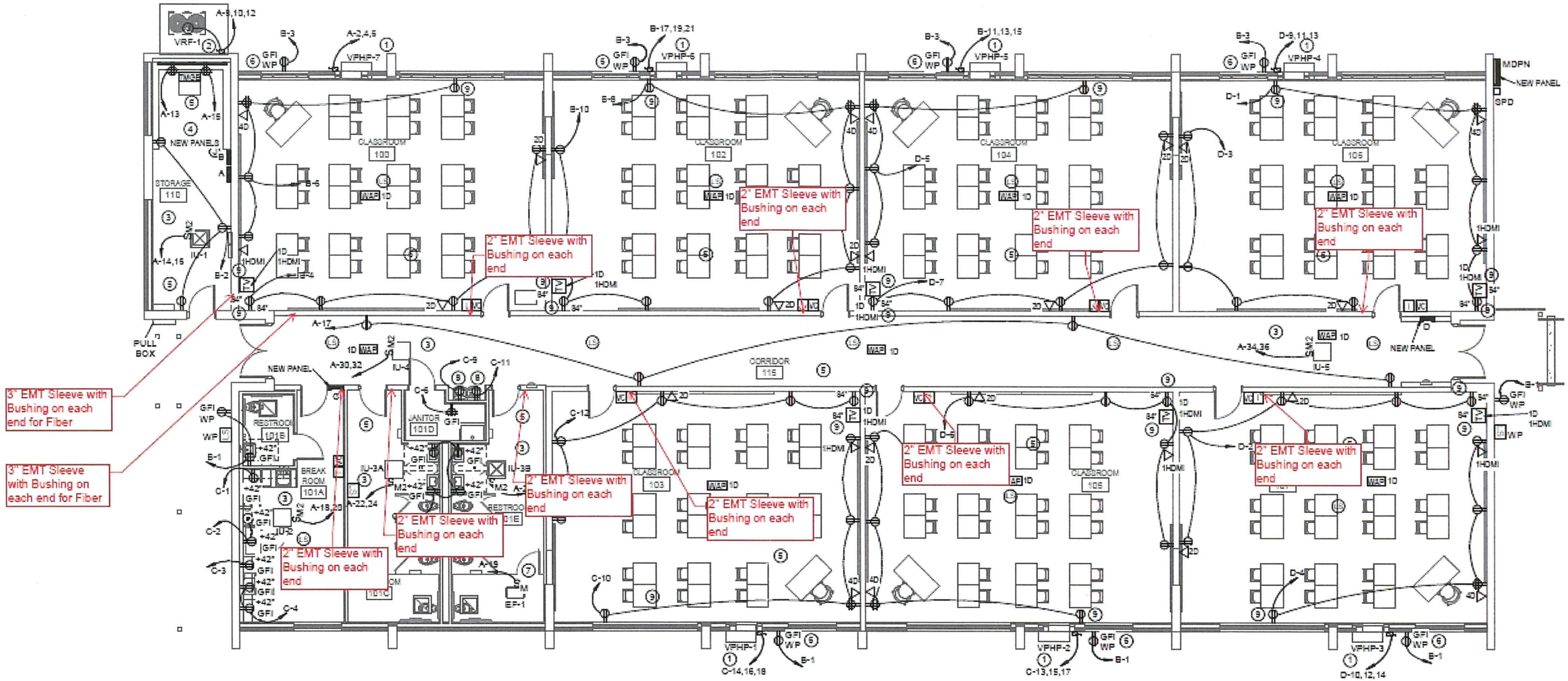
ID	DATE	DESCRIPTION

DRAWN BY: GS
CHECKED BY: JTB

POWER PLAN - ALTERNATE BIDS 2-1 THROUGH 2-3

2022017 20 FEB 2023

E2-02


3" EMT Sleeve with Bushing on each end for Fiber
3" EMT Sleeve with Bushing on each end for Fiber
2" EMT Sleeve with Bushing on each end
2" EMT Sleeve with Bushing on each end
2" EMT Sleeve with Bushing on each end
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2" EMT Sleeve with Bushing on each end
VRF-1
A-9,10,12
B-3
A-2,4,5
VPHP-7
B-17,19,21
VPHP-6
B-11,13,15
VPHP-5
D-9,11,13
VPHP-4
MDPN
NEW PANEL
SPD
STORAGE 110
NEW PANEL B
A-13
A-15
A-14,15
IU-1
B-2
PULL BOX
CLASSROOM 100
CLASSROOM 102
CLASSROOM 104
CLASSROOM 105
B-6
B-8
B-10
D-5
D-3
D-1
D-7
A-17
A-30,32
IU-2
NEW PANEL
CORRIDOR 115
A-34,36
IU-5
RESTROOM 101B
JANITOR 101D
BREAK ROOM 101A
RESTROOM 101E
IU-3A
IU-3B
A-19,20
A-22,24
A-18
EP-1
B-1
C-1
C-2
C-3
C-4
C-6
C-9
C-11
C-13
CLASSROOM 103
CLASSROOM 105
D-6
D-2
D-4
C-10
VPHP-1
C-14,16,18
VPHP-2
C-13,15,17
VPHP-3
C-10,12,14

3/4" EMT Sleeve with Bushings on each end for Security Camera

3/4" EMT Sleeve with Bushings on each end for Security Camera

3/4" EMT Sleeve with Bushings on each end for Security Camera. Somewhere above Doors

3/4" EMT Sleeve with Bushings on each end for Security Camera

3/4" EMT Sleeve with Bushings on each end for Security Camera

3/4" EMT Sleeve with Bushings on each end for Security Camera

1 First Floor Lighting Alternate Bus 2-1 - 2-3

1/8" = 1'-0"