

ADDENDUM NO. 01

ISSUE DATE: June 12, 2023

PROJECT: **WCU Reid Building Roof Replacement**
Western Carolina University, Cullowhee, NC
SCO ID#: 22-24547-01A
Atlas Engineering Job No. J2626

FROM: **Hannah Ford, PE, RRO - Atlas Engineering, Inc.**
TO (via email): Daniel Fiskeaux – Western Carolina University
Pre-Bid Meeting Attendees and Additional Designated Representatives
Other Plan Holders including Planrooms, Manufacturers and Potential Subcontractors

This addendum forms a part of the Contract Documents titled “WCU Reid Building Roof Replacement” dated May 2023. **Acknowledge receipt of this Addendum in the space provided on the bottom of the Proposal Signature Page.** Failure to do so may subject the Bidder to disqualification.

This addendum consists of 2 pages with the following attachments: 4 pages for the revised Form of Proposal, 10 pages of meeting minutes, 2 pages of the pre-bid sign in sheet, 75 pages for the Asbestos Survey, for a total of 93 pages.

PROJECT MANUAL

Form of Proposal

Please find attached a revised Form of Proposal to include Bid Alternate No. 05 to use for bidding.

Supplementary General Conditions of the Contract

Modify the first paragraph of Part 8 to read as follows:

“8. CONSTRUCTION SUPERVISION and SCHEDULE

The Contractor shall start work within two (2) weeks upon receipt of Notice to Proceed. The Contractor shall submit a project work schedule before beginning work. The starting date and work schedule shall be adhered to, and acceptable work hours shall be ***seven (7) days a week between 7:00 a.m. and 7:00 p.m. for the scope of work.*** Requests by the Contractor to work outside normal working hours shall be made a minimum of one (1) week in advance to the WCU Project Manager on site. The Contractor’s bid shall include all costs associated with workers working outside of normal business hours and/or costs associated with workers working overtime as required to meet the specified project schedule. The Owner reserves the right to request work to be performed outside normal working hours and to limit Contractor activities when they conflict with Owner operations. Any increased costs due to Owner requirements for work outside normal hours not specified in the Contract Documents will be negotiated.”

Section 010100

Modify Paragraph 1.02B to read as follows:

- “B. For the purpose of bidding, acceptable work hours shall be *seven (7) days a week between 7:00 a.m. and 7:00 p.m. for the scope of work. Demolition and temporary roof installation over occupied areas must be coordinated in advance with WCU. The contractor should provide temporary protection to the floor and interior finishes as stated in the design documents, and especially to the gym floor under Roof Area A1.* The WCU Project Manager must be notified in advance of work outside of the hours listed above to allow for coordination and approval. This anticipated schedule is provided for general planning and does not eliminate the requirement for the Contractor to coordinate with the Owner to limit disruption to potential interior functions/use.”

Section 012300

Addition of Paragraph 1.02K to read as follows:

- “K. Bid Alternate No. 05: The scope of work for Bid Alternate 05 includes a change in the acceptable work hours for Roof Area A1 during demolition, fall protection installation, and new system installation up to the self-adhered underlayment as specified in the design documents. Acceptable work hours shall be seven (7) days a week between 6:00 pm and 6:00 am. All protection installed to protect the gym floor or other interior finishes during nighttime work are required to be removed by 6:00 am each day. Acceptable work hours for installation of the new standing-seam metal roof system above the self-adhered underlayment and other accessories shall remain seven (7) days a week between 7:00 a.m. and 7:00 p.m.”

Section 074100

Modify Paragraph 2.03D1 to read as follows:

- “1. Acceptable manufacturers of the specified standing seam metal roof systems (including framing system, and trim/flashings) include:
- a. McElroy Metal – Maxima
 - b. MBCI – BattenLok HS
 - c. Architectural Metal Systems – Loc Seam
 - d. Metal Roof Systems (MRS) – System 2500
 - e. ***CMP – S-2500***”

Section 075600

Modify Paragraph 1.01.A to read as follows:

- “A. Provide labor, materials, equipment, and supervision necessary for the preparation of surfaces, membrane distress repairs, and application of primer and ***silicone*** roof coating, in accordance with manufacturer’s written instructions, and as required for coating the EPDM roof on Roof Areas C6, C7, and C9.”

PRE-BID MEETING MINUTES

The attached Pre-Bid Meeting Minutes (total of 10 pages) shall become a part of the Contract Documents. Significant information discussed at the meeting can be found within the meeting minutes.

END OF ADDENDUM

FORM OF PROPOSAL

Reid Building Roof Replacement

Contract: Roof Replacement

Western Carolina University

Bidder: _____

SCO ID: 22-24547-01A

Date: _____

The undersigned, as bidder, hereby declares that the only person or persons interested in this proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. The bidder further declares that he has examined the site of the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed. The bidder further declares that he and his subcontractors have fully complied with NCGS 64, Article 2 in regards to E-Verification as required by Section 2.(c) of Session Law 2013-418, codified as N.C. Gen. Stat. § 143-129(j).

The Bidder proposes and agrees if this proposal is accepted to contract with the **State of North Carolina through Western Carolina University** in the form of contract specified below, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of the **Reid Building Roof Replacement** in full and complete accordance with the plans, specifications and contract documents, to the full and entire satisfaction of the State of North Carolina, the **Western Carolina University, and the Designer - Atlas Engineering** a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and the contract documents, for the sum of:

SINGLE PRIME CONTRACT:

Base Bid:

_____ Dollars(\$)

Roofing Subcontractor:

Other:

_____ Lic _____

_____ Lic _____

Other:

Other:

_____ Lic _____

_____ Lic _____

GS143-128(d) requires all single prime bidders to identify their subcontractors for the above subdivisions of work. A contractor whose bid is accepted shall not substitute any person as subcontractor in the place of the subcontractor listed in the original bid, except (i) if the listed subcontractor's bid is later determined by the contractor to be non-responsible or non-responsive or the listed subcontractor refuses to enter into a contract for the complete performance of the bid work, or (ii) with the approval of the awarding authority for good cause shown by the contractor.

ALTERNATES:

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" or "deducted from" the base bid. (Strike out "Add" or "Deduct" as appropriate.)

GENERAL CONTRACT:

Bid Alternate 01: Roof Replacement of Roof Areas B1 and B2.

(Add) ~~(Deduct)~~ _____ Dollars(\$)

Bid Alternate 02: Roof Replacement of Roof Areas E1, E2, E3, and E5.

(Add) ~~(Deduct)~~ _____ Dollars(\$)

Bid Alternate 03: Roof Replacement of Roof Areas C6 and C7.

(Add) ~~(Deduct)~~ _____ Dollars(\$)

Bid Alternate 04: Removal and Disposal of existing sunshade along the south elevation of Roof Area A1.

(Add) ~~(Deduct)~~ _____ Dollars(\$)

Bid Alternate 05: Modification of acceptable work hours during demolition and partial system installation of Roof Area A1.

(Add) ~~(Deduct)~~ _____ Dollars(\$)

UNIT PRICES

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work all in accordance with the contract documents.

GENERAL CONTRACT:

Estimated quantities for each item listed below are defined in Section 012100, Paragraph 1.03 of the Project Manual.

<u>Item:</u>	<u>Unit:</u>	<u>Unit Price:</u>
1. Wood Blocking Replacement (<i>bd.ft.</i>)		Unit Price (\$)
2. Cementitious Wood Fiber Deck Repair (<i>cu.ft.</i>)		Unit Price (\$)
3. Cementitious Wood Fiber Deck Replacement (<i>sq.ft.</i>)		Unit Price (\$)
4. Metal Deck Restoration (<i>sq.ft.</i>)		Unit Price (\$)
5. Metal Deck Replacement (<i>sq.ft.</i>)		Unit Price (\$)
6. Wood Deck Replacement (<i>sq.ft.</i>)		Unit Price (\$)
7. Walk Tread Installation (<i>lft.</i>)		Unit Price (\$)
8. Drain Strainer		Unit Price (\$)
9. Clamping Rings (bolted)		Unit Price (\$)

- | | |
|--|----------------------|
| 10. <u>Clamping Rings (sergeant clamps)</u> | Unit Price (\$)_____ |
| 11. <u>Skylight Replacement</u> | Unit Price (\$)_____ |
| 12. <u>Replacing Wet Insulation at Coating Areas</u> | Unit Price (\$)_____ |

The bidder further proposes and agrees hereby to commence work under this contract on a date to be specified in a written order of the designer and shall fully complete all work thereunder within the time specified in the Supplementary General Conditions Article 23. Applicable liquidated damages amount is also stated in the Supplementary General Conditions Article 23.

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

*** OR ***

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MBE contractors, vendors and suppliers that will be used. If there is no MB participation, then enter none or zero on the form. Affidavit A **or** Affidavit B, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

Proposal Signature Page

Reid Building Roof Replacement (SCO# 22-24547-01A)

The undersigned further agrees that in the case of failure on his part to execute the said contract and the bonds within ten (10) consecutive calendar days after being given written notice of the award of contract, the certified check, cash or bid bond accompanying this bid shall be paid into the funds of the owner's account set aside for the project, as liquidated damages for such failure; otherwise the certified check, cash or bid bond accompanying this proposal shall be returned to the undersigned.

Respectfully submitted this day of _____

(Name of firm or corporation making bid)

WITNESS:

(Proprietorship or Partnership)

By: _____
Signature

Name: _____
Print or type

Title _____
(Owner/Partner/Pres./V.Pres)

Address _____

ATTEST:

By: _____

Title: _____
(Corp. Sec. or Asst. Sec. only)

License No. _____

Federal I.D. No. _____

Email Address: _____

(CORPORATE SEAL)

Addendum received and used in computing bid:

Addendum No. 1 _____ Addendum No. 3 _____ Addendum No. 5 _____ Addendum No. 6 _____

Addendum No. 2 _____ Addendum No. 4 _____ Addendum No. 6 _____ Addendum No. 7 _____



PRE-BID MEETING MINUTES

1:00 p.m., June 6, 2023
WCU Reid Building Roof Replacement
SCO ID#: 22-24547-01A
Western Carolina University, Cullowhee, NC

1. Introduction of Key Members:

- a. **Owner: WCU**
WCU Facilities Project Manager: Daniel Fiskeaux
WCU Maintenance: Rod Colton
- b. **Designer: Atlas Engineering, Inc.**
Project Manager: Hannah Ford, PE, RRO
Asst. Project Manager: Kelli Wilcox, PE, RRC

2. General Project Information:

- a. Attendance at the Pre-Bid Meeting by Prime Bidders is not mandatory but was strongly recommended. Attendees were all asked to sign-in on the provided sheet. A scanned copy of the sign-in sheet is attached. People signing in will receive addenda and other project information/communication during the bidding process from this point forward. If there were additional people that should be on this distribution list, bidders provided their information on the sign-in forms or made sure to talk with Hannah Ford prior to the end of the meeting.
- b. The project is being bid and contracted as a Formal, Single-Prime contract. Bidders are not required to be prequalified.
- c. Review of Bid Date, Time, and Format
 - **Bids are due on June 20, 2023 no later than 3:00 P.M. in the office of Western Carolina Facilities Management Department, 3476 Old Cullowhee Road, Cullowhee, NC 28723 to the attention of Daniel Fiskeaux-Project Manager.**
 - Please be aware that overnight packages from FedEx and UPS are not always received at WCU prior to 3:00 p.m. and bidders should plan accordingly.
 - Carefully follow the instructions in the Notice to Bidders included within the Project Manual.
 - Use Bid/Acceptance Form included within the Project Manual. The submitted proposal must have original signatures. Photocopied signature sheets or faxed or emailed proposals **will not** be considered.
 - Provide two original hardcopies of bid in an opaque, sealed envelope, marked with the project name, bid date and time, SCO ID#, name of the bidder, bidder's contractor license number clearly printed on the outside of the envelope. Please clearly mark "BID ENCLOSED" and "ATTN: DANIEL FISKEAUX" on the outside of the bid envelope and on the front and back of any additional mailing envelopes such as UPS or

FedEx. Please follow these instructions carefully to avoid loss of bids or designation as a non-responsive bidder.

- Cash Deposit, certified check, or Bid bonds are required for 5% of proposal. If providing a Bid Bond, use the State's Bid Bond Form included in the Project Manual. **(Do not use AIA or AIA-based Bid Bond Form.)**
 - Identification of Minority Business Participation and either Affidavit A or Affidavit B **must be attached** to the bid. Failure to properly complete and include the required MBE documentation may result in disqualification of the bid. Additional information can be found in the MBE Guidelines included within the Project Manual. Bidders should take care to carefully follow the MBE requirements and contact Atlas Engineering or the State of North Carolina HUB personnel with any questions or concerns during the bidding process. **Mr. Fiskeaux emphasized the importance of following MBE requirements to all attendees of the pre-bid meeting and indicated that the University's goal for HUB/MBE participation is 10%.**
 - Performance and Payment bonds **are** required for this project. These bonds are not required with the bid, but bidders must be sure they are capable of bonding in the amount of the bid provided (including the bid alternates).
 - It is the responsibility of the bidder to deliver his bid to the correct place/person, prior to the announced time for the bid opening. Bidders may contact Mr. Fiskeaux to confirm receipt of their bid at (828) 227-3020 or dfiskeaux@email.wcu.edu.
 - Bidders were asked to review requirements regarding withdrawal of proposals. Bids will be received and opened in accordance with the requirements of the General Statutes of North Carolina.
- d. Obtaining Bid Documents: Bidders must fully examine the Project Documents and existing site conditions prior to submitting their bid.
- Bid Documents consist of the Project Manual and Project Drawings.
 - Most bidders have received electronic copies of the documents either from Atlas or through a plan room. One hardcopy of the design documents will be made available to attendees of the pre-bid meeting at no cost. Please make a request from Hannah Ford and a set will be sent to you. Additional hardcopy sets may be requested from Atlas Engineering for a refundable plan deposit of \$100.00.
 - Electronic copies of the documents may be requested from Atlas Engineering and are free of charge. Bidders are responsible for checking all drawing scales on electronic versions when using them with estimating software and are responsible for making sure that electronic sets are complete. The hardcopy set of drawings and specifications are considered the contract bid set and take precedence over electronic sets if discrepancies occur.
 - Notify the Designer of any questions, concerns, errors as soon as possible, but no later than 10 days prior to the bid (by Friday, June 9th at

5:00 p.m.). The last addendum will be issued by 3:00 p.m. on Tuesday, June 13, 2023.

- Issue of Addendum No. 01 will include a copy of the meeting minutes for this Pre-Bid Meeting and any minor corrections or clarifications to the bid documents.
- Bidders were reminded that they must be familiar with the State's General Conditions and Supplementary Conditions, included within the Project Manual.

3. **Review of Form of Proposal:**

- a. Fill out completely base bid and unit costs. For base bid, provide the cost written out with words and with numbers where space is provided. Please be sure that the written words and numbers match.
- b. Base Bid cost must include performance of estimated quantities of unit rate work scope per Section 012100.
- d. ~~There are four (4) bid alternates for this project.~~
 - **Issue of Addendum No. 01 adds a bid alternate. There are five (5) bid alternates for this project.**
- e. Provide unit rates for listed items. Unit rates will be used in the event that the actual quantity of work performed is more, or less, than the estimate in the base bid per Section 012100.
- f. Attach the required MBE forms. Forms have been included in the Project Manual with the Form of Proposal. **If a contractor will self-perform the work and intends to submit Affidavit B, they must make sure to fill out the Identification of Minority Business Form with “none” and \$0 (do not leave it blank) in the places provided. Bidders should take care to carefully follow the MBE requirements and contact the Owner, Designer, or State HUB personnel with any questions or concerns during the bidding process.** The successful contractor will be asked to provide follow-up documentation in the form of Affidavit C or D (see forms within the project manual) and should be sure to gather such documentation during the bidding process. Some requirements are time sensitive during bidding so please review and understand the requirements early in the bidding process to allow for compliance.
- g. Provide proper signatures on the final page of the Bid/Acceptance Form.
- h. Confirm receipt of addenda at the bottom of the proposal signature page. Do not forget to fill out this part!
- i. The Owner reserves the unqualified right to reject bids if the bidder fails to insert a price for all of the bid items including the base bid or unit rates requested, fails to mark addenda, or provides incomplete or incorrectly completed MBE, or other bidding forms. Don't leave any spaces blank. Contact Atlas Engineering or WCU if you have questions! The Owner also reserves the right to waive irregularities during bidding and would remain consistent with any waivers provided for all bids received for this project.
- j. The award of the contract will be made to the lowest responsible and responsive bidder.

4. **Scope of Work:**

- a. Examine Project Documents for the purpose of bidding. The Bidders were referred to Section 010100 – Summary of Work for general work scope including description of existing roofing systems, removal and disposal, and new system installation. This section is not intended to be all-inclusive and individual specification sections should be reviewed by the bidder. All items cannot be discussed during this meeting and this scope discussion should not be considered to be all-inclusive.
 - Review the design drawings and especially the keyed notes on Sheet 2.1 for additional scope information.
- b. Base Bid (General description): Removal of all existing roof membrane, insulation, vapor barrier/base sheet, and flashings from Roof Areas A1, C1-C5, C8, D1-D3, and E4 down to the top of the roof deck and legally dispose of off-site. Remove existing sheet metal flashings, counterflashings, gutters, receivers, expansion joint caps, partial perimeter blocking, and other existing flashing accessories and dispose of off-site as necessary to allow for the proper installation of the new roof system assembly and details. Inspect the existing roof decks, wood blocking, drain bowls, and other components noted to remain and make repairs, or replace, damaged or deteriorated materials in accordance with sections included in the Project Manual.
- c. Remove roof penetrations that are identified on the drawings as “abandoned” or “for removal”.
- d. At roof Area A1, install new structural framing, insulation, new plywood roof deck, and standing seam metal roof system and roof accessories as shown in the design drawings.
- e. At Roof Area C8, Repair wood rafters where damaged or deteriorated. Install new batt insulation, new roof deck, and standing seam metal roof system and roof accessories as shown in the design drawings.
- f. At the rest of the areas, install the new low-sloped roofing system and roof accessories as shown in the design drawings.
- g. At Roof Areas C6, C7, and C9, apply new roof coating.
- h. Bid Alternative No. 01: Full-depth replacement of Roof Areas B1 and B2.
- i. Bid Alternative No. 02: Full-depth replacement of Roof Areas E1, E2, E3, and E5.
- j. Bid Alternative No. 03: Full-depth replacement of Roof Areas C6 and C7.
- k. Bid Alternative No. 04: Removal and disposal of the existing sunshade
- l. Removal of ACM (Asbestos-Containing Materials): The gray infill grout/sealant at the gymnasium pilasters along the north and south elevations of the gymnasium and the black mastic/vapor barrier membrane and flashings at Roof Area E2 (part of Bid Alternate 02) contain asbestos and must be removed and disposed of in strict accordance with all appropriate Local, State, and Federal regulations so as to protect human health and the environment. See Project Manual Section 024120 for additional information regarding removal and disposal.

- m. Roofing System Requests for Substitution: Requests for a substitution of the roof membrane/system manufacturer from those listed in the applicable section of these specifications, must be submitted no less than ten (10) days prior to the bid date. Requests must be made by the Contractor, requests from suppliers or manufacturers will not be reviewed. Bidders requesting substitution must show that the system proposed meets or exceeds the requirements of the bid documents including compatibility with detailing and warranty requirements and must provide information included in Section 016000, Paragraph 1.03.
- n. Visiting the Site: Bidders may walk the site and visit the roof following the meeting. They may return to the building to perform additional observations but must contact Mr. Fiskeaux in advance to coordinate access at (828) 227-3020 or dfiskeaux@email.wcu.edu. Please provide notice in advance to ensure that Mr. Fiskeaux has adequate time to respond before your desired visit date/time. If bidders want to enter the building, additional coordination with WCU will be required.
 - Bidders visited the roof following the meeting. Atlas and Daniel Fiskeaux walked the perimeter of the Reid Building to discuss potential access points around the roof. There are various sidewalks, landscaped areas, and large trees around the Reid Building. Large amounts of foot-traffic are anticipated around Reid Building due to the number of nearby housing buildings and the adjacent dining hall. **WCU and Atlas want to reiterate that bidders should take time to consider access for loading and unloading materials, as well as providing flaggers, spotters, appropriate signage, and any necessary temporary fencing to keep campus occupants safe.**

5. **Work Hours/Coordination Items:**

- a. Contract Time: Contract time from NTP to Final Acceptance is 180 calendar days. The Owner would like work to begin as soon after signing of construction contracts is complete and initial materials can be approved and delivered.
- b. Liquidated Damages: There are liquidated damages of \$500 per calendar day beyond the end of the contract time. Purpose of these damages is to reimburse the Owner for direct costs incurred due to failure to complete on time. Days will be added to the contract if the contractor is asked not to work on specific days due to building or campus events. The Contractor will be asked to track impact of inclement weather on the critical path of work to allow for review by the Designer and Owner. For the purpose of bidding, utilize the inclement weather procedure noted in the General Conditions which indicates that weather days will be given for days with rainfall in excess of 0.1" that are also in excess of the 5-year average for inclement weather days. Information regarding events that could impact construction would be coordinated with the successful bidder.
- c. Restricted Hours for Roof Removal: ~~Removal of the existing roof system, inspection and repair of the deck, and installation of the base sheet and~~

~~vapor barrier performed over any occupied areas must be performed after hours (between 5:00 p.m. and 6:30 a.m.). Installation of new roof system insulation, coverboard, membrane, flashings, and all perimeter sheet metal work may be performed during normal daytime work hours (8:00 a.m. — 5:00 p.m.). Work outside of these times will require approval in advance by the Owner.~~

- For the purpose of bidding, acceptable work hours shall be seven (7) days a week between 7:00 a.m. and 7:00 p.m. for the scope of work. Demolition and temporary roof installation over occupied areas must be coordinated in advance with WCU. The contractor should provide temporary protection to the floor and interior finishes as stated in the design documents, and especially to the gym floor under Roof Area A1. The WCU Project Manager must be notified in advance of work on weekends or outside of the hours listed above to allow for coordination and approval. This anticipated schedule is provided for general planning and does not eliminate the requirement for the Contractor to coordinate with the Owner to limit disruption to potential interior functions/use.
- Replacement of skylights will require advanced coordination from WCU.

- d. Staging and Storage: The proposed staging and storage areas for access of materials and workers was reviewed. WCU will strive to keep the overall area provided to the contractor as close to that shown as possible but may coordinate minor changes with the contractor to improve access or avoid conflict with end users. Chain link fencing with weighted moveable bases should be provided around materials, equipment, and staging and storage area to clearly identify it.

- WCU anticipates another re-roofing project to be going on at the same time as this project and the two projects will share a parking lot for staging and storage areas. This is the parking lot shown on Sheet 1.0 of the design drawings and the exact configuration may vary. WCU plans to install fencing around the staging and storage area prior to the fall semester starting. Additional fencing may need to be installed by the Contractor. Any damages to the fencing installed by WCU by the Contractor will be the Contractor's responsibility to pay to fix.

- e. Access to the Building Interior: Interior building access will be allowed only for checking on water entry/damage/debris/noise, etc. and for required limited protection and cleaning. Workers must access the roof from the exterior. Ladders must be taken down at the end of each workday (or whenever the crew will be leaving the site).

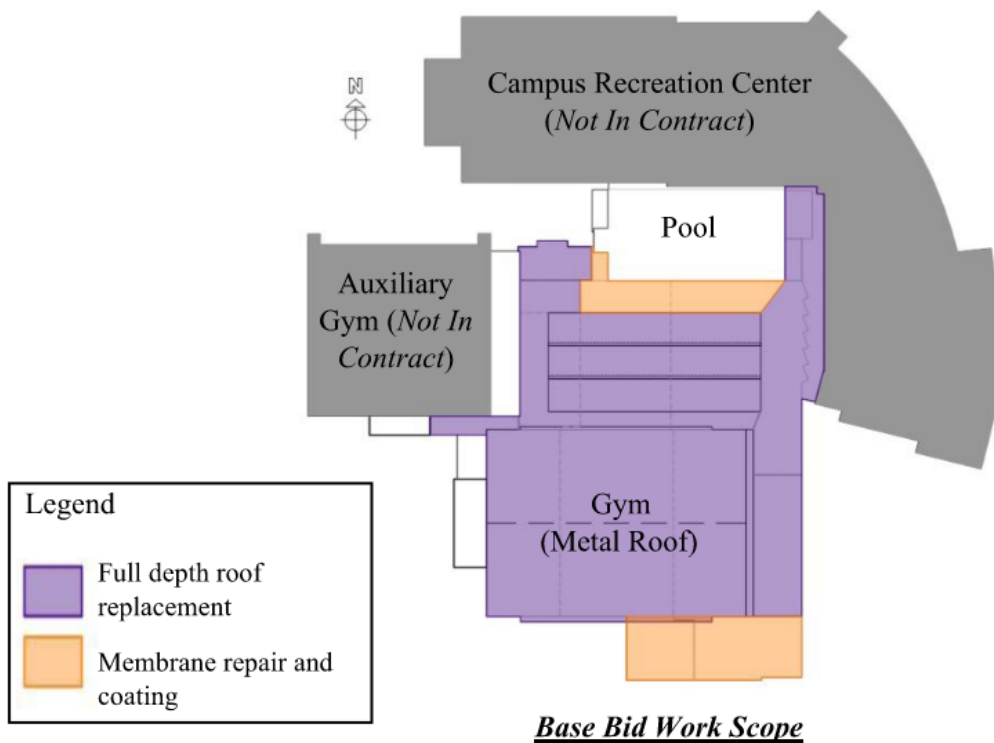
6. **General/Owner Items:**

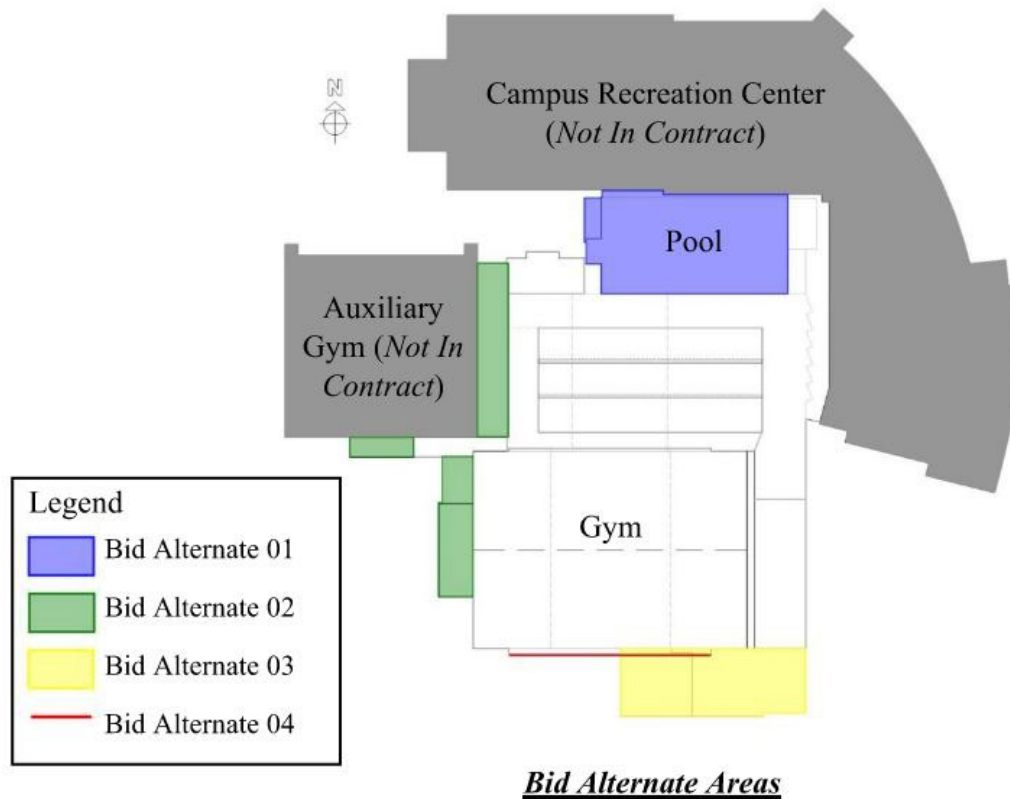
- a. Deliveries: WCU must be notified of large material and equipment deliveries. WCU can assist in finding alternate delivery paths, flagging, land

closure, etc. if necessary. The delivery route to the building should be taken into consideration by the bidders.

- **A representative from the contractor must be present to accept the delivery.**
- b. Submittals and Mock-Ups: Review requirements in the project manual for submittals (especially product data and in-place mock-ups which are aimed mainly toward sheetmetal components). In-place mock-ups will be installed on the building and may remain in place once approved. No separate mock-up panel will be required.
- c. Hot Work Permits: If the Owner will require permits for heat-welding of the membrane then permits are required daily and Atlas confirmed that the requirements are straightforward and have been successfully met by contractors on numerous past roofing projects.
 - **WCU does not require hot work permits for heat welding.**
- d. Insurance Requirements: Be sure that insurance certificates provided by the contractor will be capable of meeting State Requirements listed in the General Conditions and Supplemental General Conditions, especially for cancellation clauses, endorsements, and builder's risk coverage. Please contact your insurance agent to review requirements in advance of bidding.
- e. Atlas reminded bidders that the roofing installers must have crews capable of performing quality work and must be able to properly supervise crews. Good communication with Owner and Designer will be key to project success and should be considered when anticipating crews, subcontractors, and supervisory personnel to be used.
- f. WCU has a zero-tolerance policy regarding inappropriate behavior by workers on site including indecent dress, language, or acts, and improper interaction with students, parents, campus staff, or building occupants that haven't been designated as acceptable points of contact. There is no smoking, firearms, alcoholic beverages, or drugs other than those prescribed by a physician allowed on the project site. The Owner reserves the right to have any worker in violation of proper behavior removed from the construction site and project by the Contractor or proper authorities.
- g. WCU does not have a set sequence of work for the roof areas. The contractor may begin work at the location of their choice but is expected to restrict foot traffic over completed roof areas.
- h. Membrane color will be selected from the manufacturer's standard colors and manufacturers must have at least 3 standard colors that incorporate a white and gray color at minimum. It is anticipated that selected color will be a white or off-white but the Owner will have the final selection from the standard colors.
- i. Interior protection is only required for areas where the underside of the cementitious wood fiber deck is the exposed ceiling finish. Where there are dropped ceilings, the contractor will need to check above the ceiling tile for large pieces of debris to be removed, but not minor dust/dirt.

- j. The Contractor is welcome to provide additional protection to interior conditions that they feel may be sensitive (i.e. servers, computers, etc.) as long as they coordinate with the Owner in advance.
- k. Atlas representatives will be on-site during initial nights of roof removal to look at the deck condition and calibrate conditions that may require repair. After that we will provide contact information for emergency issues during tear off.
- l. Contractor should expect some sort of weekly coordination discussion – likely by conference call or virtual meeting with Project Management personnel and monthly in-person, on-site progress meetings. Atlas will visit on a weekly basis based on work progress/weather.





7. **Questions from Pre-Bid Meeting:**

Question: What are the requirements for interior protection during roof replacement?

Answer: Protection is required over the gymnasium floor where work is taking place on Roof Area A1. The protected area should have temporary fencing (recommended: snow fencing) installed around the area to prevent site occupants from accessing the area. The interior protection of the gymnasium must be removed at the end of the workday to allow for use. Additional coordination with WCU personnel will be required during roof replacement. The Contractor is expected to check the interior of the Reid Building following demolition and installation of the thermal and vapor barriers to check for any debris or loose material that could have fallen during work.

Question: If Bid Alternate 01 is accepted, will the pool require a cover during tear off and replacement?

Answer: No, Atlas and WCU do not anticipate debris falling into the pool due to the existing roof deck being concrete plank. We would request that work begin at a corner of the roof area not directly over the pool and if falling

debris occurs, Atlas and WCU will work with the contractor to provide protection.

Question: Does the asbestos containing grout infill at every pilaster downspout need to be abated?

Answer: Yes, the asbestos containing grout infill at every pilaster downspout along the North and South Elevations of the gymnasium needs to be abated.

Question: Will the \$500 per calendar day in liquidated damages come into play if there is a material lead time for a specific color of membrane selected by the owner?

Answer: WCU will most likely select white as their membrane color. If white is not selected, and there is an associated wait time for the color selected, then WCU will either select a color that is available, or not penalize the contractor for associated wait times with the membrane color selected.

END OF MEETING MINUTES

WCU Reid Building - Roof
Replacement
Pre-Bid Meeting - June 6, 2023

Project: WCU Reid Building Roof Replacement

	NAME	REPRESENTING	PHONE	E-MAIL ADDRESS
1	Hannah Ford	Atlas Eng.	(O) 919-420-7676 (M) 828-514-5060	hannah@atlasnc.com
2	Tim Ford	Atlas Eng.	(O) 919-420-7676 (M) 336-745-1983	tim@atlasnc.com
3	Greg Pressley	NEO Corporation	(O) 828-456-4352 (M) 828-507-7492	gpressley@neo-corporation.com
4	Storm Kurth	AAR of NC	(O) 336-727-4534 (M) 336-340-2621	storm@aarnc.com
5	EDDIE LESTER	B+M Roofing Contractors	(O) (M) 252-955-3253	ELESTER@BMROOFINGCONTRACTORS.COM
6	Chris Miles	A.C.R Commercial Roofing	(O) (855) 862-7663 (M) (770) 776-9591	chris@alphacommercialroofs.com Intake@alphacommercialroofs.com
7	Brad Wingo	Roofers Supply	(O) (M) 864-965-6983	brad@rooferssupplyinc.com
8	Daniel Fiskeaux	WCU	(O) 828-227-3820 (M) 828-507-3832	dfiskeaux@wcu.edu

WCU Reid Building - Roof
Replacement
Pre-Bid Meeting - June 6, 2023

Project: WCU Reid Buildig Building Roof Replcement

	NAME	REPRESENTING	PHONE	E-MAIL ADDRESS
9	STEVEN WYGAND	JOHNS MANVILLE	(O) (M) (864) 867- 3328	STEVEN.WYGAND@JM.COM
10	MATT WALKER	NATIONS ROOF	(O) (M) 704-277 0458	MWALKER@NATIONSROOF.COM
11	Ty Konkle	ESkola Roofing	(O) (M) 423-438 8202	ty@eskolaroofing.com
12	Cameron Alexander	WxTite, LLC	(O) (M) 813-679- 1887	Calexander@wxtite.com
13	Austin Patterson	Sika/ Sarnafil	(O) (M) 704-785- 6612	austin@integratedproducts grp.com
14	Jeremy Vivenzio	ESkola Roofing	(O) (M) 518-728 6798	Jvivenzio@eskolaroofing.com
15	Joey Gibbs	Allcon Roofing	(O) (M) 828-246- 2584	JGibbs@allconroofing. com
16	Amanda@ roofer supply inc. com		(O) 704-970- 4010 (M)	amanda@roofer supplyinc.com

NOTE: The roof area names used in this report are DIFFERENT than the roof area names found in the Bid Document Drawings. Refer to the attached roof plans and core locations to determine sample locations on the WCU Reid Building.

REPORT SUMMARIZING ROOF MATERIALS BULK SAMPLING ANALYSIS RESULTS TO DETERMINE ASBESTOS CONTENT



**WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
ROOF SYSTEMS REPLACEMENT PROJECT
MEMORIAL AND CULLOWHEE DRIVES
CULLOWHEE, NORTH CAROLINA 28723
PROJECT NO.: OLME-2022-18**

REPORT SUMMARIZING ROOF MATERIALS BULK SAMPLING ANALYSIS RESULTS TO DETERMINE ASBESTOS CONTENT

**WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
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CULLOWHEE, NORTH CAROLINA 28723
PROJECT NO.: OLME-2022-18**

FOR:

**ATLAS ENGINEERING, INC.
551-A PYLON DRIVE
RALEIGH, NORTH CAROLINA 27606
ATLAS PROJECT NO. J2626**

BY:

**OLM ENVIRONMENTAL, LLC
2317 LOCKWOOD FOLLY LANE
RALEIGH, NORTH CAROLINA 27610
PHONE: 919-212-3019
CELL: 919-931-0629**

OLM Environmental, LLC

2317 LOCKWOOD FOLLY LANE; RALEIGH, NC 27610

PHONE: (919) 212-3019

CELLPHONE: (919) 931-0629

August 23, 2022

Atlas Engineering, Inc.

551-A Pylon Drive

Raleigh, North Carolina 27606

Attention: Hannah Ford, PE, RRO
Staff Engineer II

Subject: **Report Summarizing Roofing Materials Bulk Sampling Analytical Results
to Determine Asbestos Content
Western Carolina University
Reid Health and Human Performance Building
Roof Systems Replacement Project
Memorial and Cullowhee Drives
Cullowhee, North Carolina 28723
Project No.: OLME-2022-18**

Dear Mrs. Ford:

OLM Environmental, LLC (**OLME**) is pleased to present this report summarizing the analytical results for the bulk sampling of suspect materials obtained from areas throughout the existing roof systems to determine asbestos content. We understand that the existing roof systems on the above-mentioned facility are planned for replacement. Atlas Engineering, Inc. (**Atlas**) located in Raleigh, North Carolina has been contracted by Western Carolina University (**WCU**) to design and manage the replacement project(s), which included the planned bulk sampling. Atlas contracted OLM Environmental, LLC to coordinate and assist with the bulk sampling, which also included assessing the identified roof systems for suspect materials known to contain asbestos; to develop a sampling strategy; and report the analysis of the bulk sampling obtained. After reviewing provided layout and phase construction drawings of the building's systems, it was determined that suspect materials may remain concealed under several phasing of the roof system(s), as an underlying layer. Our objectives to obtain sufficient samples throughout each phase of construction in order to determine if felt layer(s) and any other suspect materials remain in place and would be impacted by the planned roof replacement.

OLME and Atlas inspectors were onsite August 2 and 3, 2022 completing a walkthrough of the existing roofs, assessing each for suspect materials requiring sampling and bulk sample collection. OLME representative, Oral L. McGirt, and Atlas representatives, Hannah Ford (project manager) and Tim Ford (survey team coordinator) determined and agreed on the sampling strategy and the type of materials identified for sampling. This report presents known survey procedures, survey results and recommendations and also provides general

information, such as the existence, general location, condition and type of identified asbestos-containing materials (ACM).

SURVEY PROCEDURES

Mr. McGirt conducted a visual assessment of the existing roof systems along with Atlas representatives, Hannah Ford, Kelli Wilcox and Tim Ford. At the completion of each roof's assessment based on the age of construction, a sampling strategy was determined, and bulk samples were obtained. Suspect materials were grouped based on material homogeneity. A homogeneous area is an area that contains materials that seem by texture, color and wear to be uniform and applied during the same general time period.

ANALYSIS PROCEDURES

Each bulk sample of suspect roofing material obtained was analyzed using Polarized Light Microscopy (PLM), coupled with Dispersion Staining as outlined in the Environmental Protection Agency's (EPA) accredited test method EPA 600/M4-82-020 that incorporates method EPA-600/R-93/116 where applicable as per 40 CFR 763. Summaries of the bulk samples identified to contain asbestos fibers in amounts greater than one percent (1%) is attached in the Sections of this report entitled, "Summary of Analysis Results". A complete summary of the bulk sampling performed is attached in the Sections entitled, "**Asbestos Bulk Sampling Record**".

SUMMARY OF ANALYSIS RESULTS

The following is a summary of the identified materials containing amounts of asbestos fibers greater than one percent (1%) and the estimated quantities of the material(s) remaining in-place:

TYPE OF MATERIAL	GENERAL LOCATION*	TYPE OF ASBESTOS AND PERCENTAGE
Black Mastic Layer Contained in Roof Core Samples	Throughout Roof Area "D1"	3% Chrysotile

NOTE: The roof area names used in this report are DIFFERENT than the roof area names found in the Bid Document Drawings. Refer to the attached roof plans and core locations to determine sample locations on the WCU Reid Building.

TYPE OF MATERIAL	GENERAL LOCATION*	TYPE OF ASBESTOS AND PERCENTAGE
Roof Flashing Black Bituminous Vapor Barrier	Perimeter Brick Masonry Walls Throughout Roof Areas A2, C2 and D1	4-10% Chrysotile
Gray Infill at Pilaster Downspouts	Throughout Roof Areas A2	4% Chrysotile

The black mastic layer contained in Area D1 roof core samples; roof flashing black bituminous vapor barrier throughout Roof Areas A2, C2 and D1; and gray infill at pilaster downspouts throughout Roof Area A2 are considered to be non-friable materials and were observed to be in fair to good condition. Damage(s) were generally observed due to age and weather-related deterioration due to exposure.

Asbestos was not detected in multiple bulk samples of roof core, roof flashing, underlying foam insulations obtained from various locations throughout the identified roof areas. Additionally, asphalt shingles and underlying felt/paper applied on Roof Area A4 were also identified **not** to contain Asbestos. We have attached a copy of the PLM laboratory analysis report for the bulk sampling obtained from each of the identified roof areas in section entitled, “**AmeriSci Richmond - PLM Bulk Asbestos Report**”. We have also attached “**Photographs**”, which detail the “Typical View” locations where bulk sampling was performed and the results of the analysis. Finally, we have also attached drawings entitled, “**Site Layout and Bulk Sampling Locations Drawings**” which displays the Roof Areas identified based on the building’s construction date and bulk sampling locations obtained from each roof area.

QUALIFICATIONS

If the planned roof replacement activities include disturbing the identified non-friable ACMs, then these materials must be addressed in accordance with applicable Federal, State, and local regulations.

The EPA’s NESHAP asbestos regulation (40 CFR 61, Subpart M, Section 61.145) requires that regulated friable ACMs and regulated nonfriable ACMs that may become friable be properly removed prior to any planned renovation and/or demolition activities. The North Carolina regulations (G.S. 130A-444 through 451) also require accreditation of personnel from inspector, designer, contractor supervisors and (roof)

workers and air monitors in the asbestos field and notification and removal permit fees for such asbestos removal projects. These will be required if abatement is planned for the identified ACM.

The OSHA asbestos standards (29 CFR 1910 and 1926) address general industry and construction industry employee asbestos exposure. These standards set asbestos exposure limits that, if exceeded, require medical surveillance and training programs for the employees. Engineering controls, such as proper work practices, respiratory protection and protective clothing are also outlined to achieve compliance with exposure limits. These standards also require posting of warning signs in regulated areas and attaching warning labels on products containing asbestos and to waste containers. These will also be required during the handling, storage and transport of the generated asbestos-contaminated waste to a State-approved landfill.

This report summarizes OLME's evaluation of the conditions observed at WCU's Reid Health and Human Performance building's roof systems identified for replacement. Our findings are based upon our observations, discussions with Atlas and the analytical results for the bulk sampling obtained. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation. OLME appreciates the opportunity to have provided these services and look forward to working with WCU and Atlas on this and future projects. If there are any questions concerning this report or results, please contact us.

Sincerely,

OLM Environmental, LLC



Oral L. McGirt
Asbestos Project Manager
N.C. Inspector No. 10755

Attachments: Asbestos Bulk Sampling Record
Photographs
AmeriSci Richmond - PLM Bulk Asbestos Report
Site Layout Drawing
Bulk Sampling Locations Drawing

ASBESTOS BULK SAMPLING RECORD
WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
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SAMPLE NUMBER	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS AND PERCENTAGE
WCRB-1	Center of Area A1 (C1)	EPDM 1-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-2	Northeast Corner of Area A1 (C2)	EPDM 1-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-3	Southwest Corner of Area D1 (C3)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck	Black Mastic: 3% Chrysotile All Other Layers: None Detected
WCRB-4	Northeast Corner of Area D1 (C4)	EPDM 1-1/4" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 3" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck	Black Mastic: 3% Chrysotile All Other Layers: None Detected
WCRB-5	Center of Area U4 (C5)	EPDM 1/2" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier Metal Deck	All Layers: None Detected
WCRB-6	Center of Area C6 (C6)	EPDM 1-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier Metal Deck	All Layers: None Detected

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SAMPLE NUMBER	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS AND PERCENTAGE
WCRB-7	Northeast Corner of Area C2 (C7)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck	All Layers: None Detected
WCRB-8	East Side of Area C5 (C8)	EPDM 1-1/4" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier Metal Deck	All Layers: None Detected
WCRB-9	Southern Portion of Area A2 (C9)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-10	Southeast Section of Area A2 (C10)	EPDM 1" Polyisocyanurate Insulation 3" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-11	South Side of Area A4 (C11)	Asphalt Shingle Underlayment Plywood Sheathing	All Layers: None Detected
WCRB-12	North Side of Area A4 (C12)	Asphalt Shingle Underlayment Plywood Sheathing	All Layers: None Detected
WCRB-13	Center of East Section of Area A2 (C13)	EPDM 5/8" Polyisocyanurate Insulation 1-1/2" Polyisocyanurate Insulation 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected

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SAMPLE NUMBER	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS AND PERCENTAGE
WCRB-14	Center of Area B3 (C14)	EPDM 1" Polyisocyanurate Insulation 1/2" Built-up Roof 3" Thermoset Fill Concrete Deck	All Layers: None Detected
WCRB-15	Center of Area U3 (C15)	EPDM 2-1/4" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 3" Polyisocyanurate Insulation Black Plastic Sheeting Gypsum Deck	All Layers: None Detected
WCRB-16	Northeast Corner of Area A2 (C16)	EPDM 3/4" Polyisocyanurate Insulation 1/2" Built-up Roof 4" Thermoset Fill Tectum Deck	All Layers: None Detected
WCRB-17	Center of Area F1 (C17)	EPDM 1" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier Metal Deck	All Layers: None Detected
WCRB-18	South Side of Area F1 (C18)	EPDM 1" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier Metal Deck	All Layers: None Detected

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WCRB-19	Northwest Corner of Area A2 (C19)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 3-1/2" Thermoset Fill Tectum Deck	All Layers: None Detected
WCRB-20	West Side of Area A2 (C20)	EPDM 1-1/2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 3/8" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-21	South Side of Northern Section of Area A2 (C21)	EPDM 1-1/2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-22	East Side of Northern Section of Area A2 (C22)	EPDM 1" Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2" Thermoset Fill Tectum Deck	All Layers: None Detected
WCRB-23	North Side of Area A2 (C23)	EPDM 1" Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2" Thermoset Fill Tectum Deck	All Layers: None Detected
WCRB-24	South Side of Area E1 (C24)	EPDM 2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-25	Northwest Corner of Area E1 (C25)	EPDM 1-1/4" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected

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SAMPLE NUMBER	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS AND PERCENTAGE
WCRB-26	Center of Area U2 (C26)	EPDM 1" Polyisocyanurate Insulation 1/4" Built-up Roof 3-1/2" Thermoset Fill Asphaltic "Mopped" Layer 3" Wood Fiberboard Concrete Deck	All Layers: None Detected
WCRB-27	North Side of Area A2 (C27)	EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-28	Southwest Corner of Southern Section of Area A3 (C28)	EPDM 3" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck	All Layers: None Detected
WCRB-29	Middle Section of Area A3 - Bottom of Slope (C29)	EPDM 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck	All Layers: None Detected
WCRB-30	Northeast Corner of Northern Section of Area A3 (C30)	EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-31	South Central Side of Area B1 (C31)	EPDM 3" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck	All Layers: None Detected

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SAMPLE NUMBER	SAMPLE LOCATION	TYPE OF MATERIAL	TYPE OF ASBESTOS AND PERCENTAGE
WCRB-32	Southeast Side of Area B1 (C32)	EPDM 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck	All Layers: None Detected
WCRB-33	Center of Area U1 (C33)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck	All Layers: None Detected
WCRB-34	East Side Perimeter of Area A1 (F1)	EPDM 1" Polyisocyanurate Insulation 3" Thermoset Fill 1/2" Built-up Roof Tectum Deck	All Layers: None Detected
WCRB-35	North Side Perimeter of Area A1 (F2)	EPDM Flashing Polyisocyanurate Insulation Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-36	East Side Perimeter of Area D1 (F3)	EPDM Flashing Brick Masonry	All Layers: None Detected
WCRB-37	West Side Perimeter of Area D1 (F4)	EPDM Flashing Bituminous Vapor Barrier Brick Masonry	Black Barrier: 4% Chrysotile All Other Layers: None Detected
WCRB-38	East Side Perimeter of Area U4 (F5)	EPDM Flashing Brick Masonry	All Layers: None Detected
WCRB-39	North Side Perimeter of Area C6 (F6)	EPDM Flashing Brick Masonry	All Layers: None Detected
WCRB-40	South Side Perimeter of Area C2 (F7)	EPDM Flashing Wood Blocking	Black Barrier: 5% Chrysotile All Other Layers: None Detected

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WCRB-41	West Side Perimeter of Area C5 (F8)	EPDM Flashing Brick Masonry	All Layers: None Detected
WCRB-42	North Side Perimeter of Southern Section of Area A2 (F9)	EPDM Flashing Brick Masonry	All Layers: None Detected
WCRB-43	Southeast Section Skylight in Area A2 (F10)	EPDM Flashing Metal Curb	All Layers: None Detected
WCRB-44	West Side Perimeter of East Section of Area A2 (F11)	EPDM Flashing Wood Blocking	All Layers: None Detected
WCRB-45	East Side Perimeter of East Section of Area A2 (F12)	EPDM Flashing Polyisocyanurate Insulation Bituminous Vapor Barrier Tectum Deck	All Layers: None Detected
WCRB-46	East Side Perimeter of Area F1 (F13)	EPDM Flashing CMU Block Wall	All Layers: None Detected
WCRB-47	Curb Penetration in Area F1 (F14)	EPDM Flashing Metal Curb	All Layers: None Detected
WCRB-48	West Side Perimeter of Northern Section of Area A2 (F15)	EPDM Flashing Brick Masonry	Black Barrier: 10% Chrysotile All Other Layers: None Detected
WCRB-49	Curb Penetration on Area E1 (F16)	EPDM Flashing Metal Curb	All Layers: None Detected
WCRB-50	East Side Perimeter of Area E1 (F17)	EPDM Flashing Wood Blocking	All Layers: None Detected
WCRB-51	North Side Perimeter of Middle Section of Area A3 (F18)	EPDM Flashing Wood Blocking	All Layers: None Detected
WCRB-52	South Side Perimeter of Northern Section of Area A3 (F19)	EPDM Flashing Flexible Sheet Metal	All Layers: None Detected
WCRB-53	North Side Perimeter of Area B1 (F20)	EPDM Flashing Gypsum Wallboard Sheathing	All Layers: None Detected
WCRB-54	West Side Perimeter of Area B1 (F21)	EPDM Flashing Wood Blocking	All Layers: None Detected

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WCRB-55	East Side Perimeter of Area U1 F22	EPDM Flashing Brick Masonry	All Layers: None Detected
WCRB-56	North Side Perimeter of Southern Section of Area A2 (S1)	Infill at Pilaster Downspout	White Wrap: None Detected Gray Infill: 4% Chrysotile
WCRB-57	North Side Perimeter of Southern Section of Area A2 (S2)	Infill at Pilaster Downspout	Gray Infill: 4% Chrysotile

AmeriSci Laboratory - Richmond Virginia
NVLAP Lab Code 101904-0
Oral L. McGirt
North Carolina Inspector No. 10755

PHOTOGRAPHS

**WESTERN CAROLINA UNIVERSITY
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PHOTOGRAPHS
WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
ROOF SYSTEMS REPLACEMENT PROJECT
MEMORIAL AND CULLOWHEE DRIVES
CULLOWHEE, NORTH CAROLINA 28723
PROJECT NO.: OLME-2022-18



PHOTO No. 1

Roof Overview Displaying Portions of Roofs A1, A2 and A3



PHOTO No. 2

Roof Overview Displaying Portions of Roofs A2, A3 and E1



PHOTO No. 3

Overview Displaying Portion of Roof A2
Between Roofs A3 and B1



PHOTO No. 4

Overview Displaying Portions of Roofs B1, U1, U2 and U3

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PROJECT NO.: OLME-2022-18



PHOTO No. 5
View Displaying Roof U1



PHOTO No. 6
Overview Displaying Roofs D1 and U4



PHOTO No. 7
View of the Location for Roof Core **Sample WCRB-1 (C-1)**
Obtained from Center of Roof (Area) A1 (**None Detected**)



PHOTO No. 8
View of the Location for Roof Core **Sample WCRB-2 (C-2)**
Obtained from Northeast Corner of Roof (Area) A1
(**None Detected**)

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PROJECT NO.: OLME-2022-18



PHOTO No. 9

View of the Location for Roof Core **Sample WCRB-3 (C-3)**
Obtained from Southwest Corner of Roof (Area) D1
(Black Mastic Contains 3% Chrysotile Asbestos)



PHOTO No. 10

Closer View of Roof Core **Sample WCRB-3 (C-3)** Obtained
from Southwest Corner of Roof (Area) D1
(Black Mastic Contains 3% Chrysotile Asbestos)



PHOTO No. 11

View of the Location for Roof Core **Sample WCRB-4 (C-4)**
Obtained from Northeast Corner of Roof (Area) D1
(Black Mastic Contains 3% Chrysotile Asbestos)



PHOTO No. 12

Closer View of Roof Core **Sample WCRB-4 (C-4)** Obtained
from Northeast Corner of Roof (Area) D1
(Black Mastic Contains 3% Chrysotile Asbestos)

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PROJECT NO.: OLME-2022-18



PHOTO No. 13

View of the Location for Roof Core **Sample WCRB-5 (C-5)**
Obtained from Center of Roof (Area) U4 (**None Detected**)



PHOTO No. 14

View of the Location for Roof Core **Sample WCRB-6 (C-6)**
Obtained from Center of Roof (Area) C6 (**None Detected**)

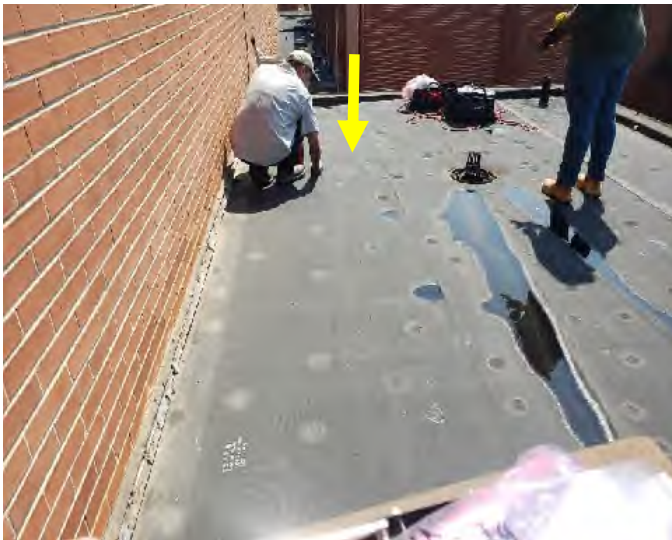


PHOTO No. 15

View of the Location for Roof Core **Sample WCRB-7 (C-7)**
Obtained from Northeast Corner of Roof (Area) C2
(**None Detected**)

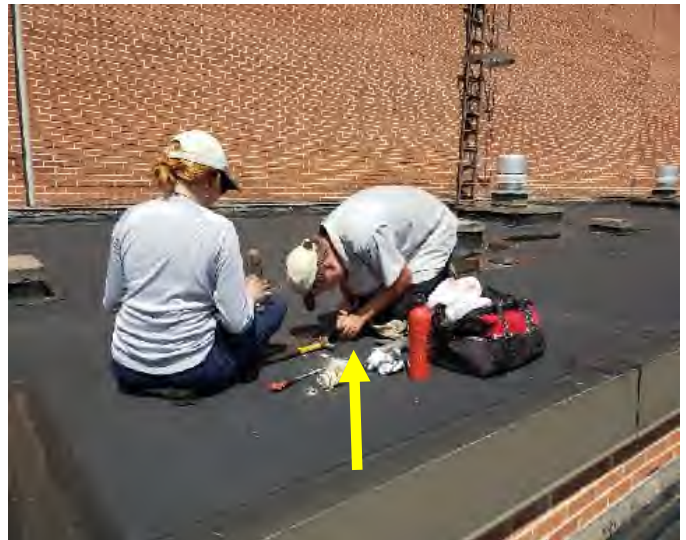


PHOTO No. 16

View of the Location for Roof Core **Sample WCRB-8 (C-8)**
Obtained from East Side of Roof (Area) C5 (**None Detected**)

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PHOTO No. 17

View of the Location for Roof Core **Sample WCRB-9 (C-9)** Obtained from Southern Portion of Roof (Area) A2
(None Detected)



PHOTO No. 18

View of the Location for Roof Core **Sample WCRB-10 (C-10)** Obtained from Southeast Section of Roof (Area) A2
(None Detected)

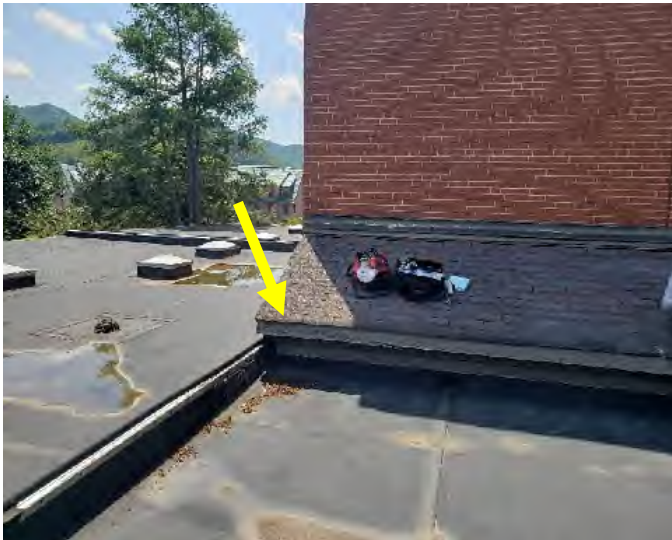


PHOTO No. 19

View of the Location for Asphalt Roof Shingles and Underlying Felt Paper **Sample WCRB-11 (C-11)** Obtained from South Side of Roof (Area) A4
(None Detected)



PHOTO No. 20

View of the Location for Asphalt Roof Shingles and Underlying Felt Paper **Sample WCRB-12 (C-12)** Obtained from North Side of Roof (Area) A4
(None Detected)

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PROJECT NO.: OLME-2022-18



PHOTO No. 21

View of the Location for Roof Core **Sample WCRB-13**
(C-13) Obtained from Center of East Section of Roof (Area)
A2 (**None Detected**)



PHOTO No. 22

View of the Location for Roof Core **Sample WCRB-14**
(C-14) Obtained from Center of Roof (Area) B3
(**None Detected**)



PHOTO No. 23

View of the Location for Roof Core **Sample WCRB-15**
(C-15) Obtained from Center of Roof (Area) U3
(**None Detected**)



PHOTO No. 24

View of the Location for Roof Core **Sample WCRB-16**
(C-16) Obtained from Northeast Corner of Roof (Area) A2
(**None Detected**)

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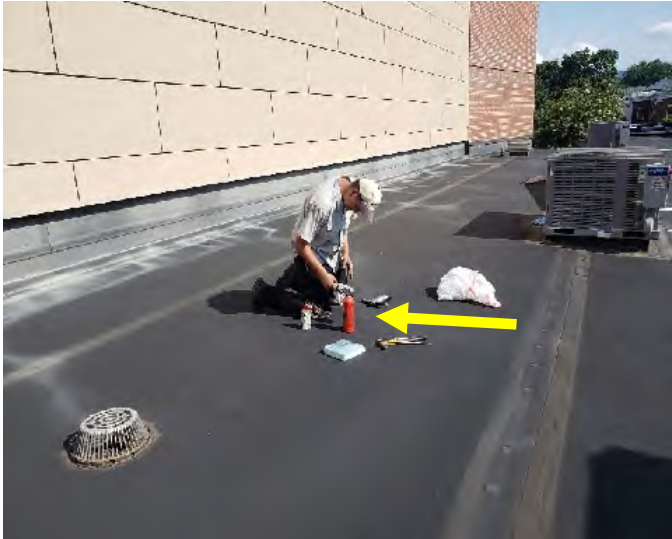


PHOTO No. 25

View of the Location for Roof Core **Sample WCRB-17**
(C-17) Obtained from Center of Roof (Area) F1
(None Detected)



PHOTO No. 26

View of the Location for Roof Core **Sample WCRB-18**
(C-18) Obtained from South Side of Roof (Area) F1
(None Detected)



PHOTO No. 27

View of the Location for Roof Core **Sample WCRB-19**
(C-19) Obtained from Northwest Corner of Roof (Area) A2
(None Detected)



PHOTO No. 28

View of the Location for Roof Core **Sample WCRB-20**
(C-20) Obtained from West Side of Roof (Area) A2
(None Detected)

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PHOTO No. 29

View of the Location for Roof Core **Sample WCRB-21**
(C-21) Obtained from South Side of Northern Section of
Roof (Area) A2 (**None Detected**)



PHOTO No. 30

View of the Location for Roof Core **Sample WCRB-22**
(C-22) Obtained from East Side of Northern Section of Roof
(Area) A2 (**None Detected**)



PHOTO No. 31

View of the Location for Roof Core **Sample WCRB-23**
(C-23) Obtained from North Side of Roof (Area) A2
(**None Detected**)



PHOTO No. 32

View of the Location for Roof Core **Sample WCRB-24**
(C-24) Obtained from South Side of Roof (Area) E1
(**None Detected**)

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PHOTO No. 33

View of the Location for Roof Core **Sample WCRB-25**
(C-25) Obtained from Northwest Corner of Roof (Area) E1
(None Detected)



PHOTO No. 34

View of the Location for Roof Core **Sample WCRB-26**
(C-26) Obtained from Corner of Roof (Area) U2
(None Detected)



PHOTO No. 35

View of the Location for Roof Core **Sample WCRB-27**
(C-27) Obtained from North Side of Roof (Area) A2
(None Detected)



PHOTO No. 36

View of the Location for Roof Core **Sample WCRB-28**
(C-28) Obtained from Southwest Corner of Southern Section of
Roof (Area) A3 **(None Detected)**

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PHOTO No. 37

View of the Location for Roof Core **Sample WCRB-29**
(C-29) Obtained from Middle Section of Roof (Area) A3 –
Bottom of Slope (**None Detected**)



PHOTO No. 38

View of the Location for Roof Core **Sample WCRB-30**
(C-30) Obtained from Northeast Corner of Northern Section of
Roof (Area) A3 (**None Detected**)



PHOTO No. 39

View of the Location for Roof Core **Sample WCRB-31**
(C-31) Obtained from South Central Side of Roof (Area) B1
(**None Detected**)



PHOTO No. 40

View of the Contents for Roof Core **Sample WCRB-32**
(C-32) Obtained from Southeast Side of Roof (Area) B1
(**None Detected**)

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PHOTO No. 41

View of the Location for Roof Core **Sample WCRB-33**
(C-33) Obtained from Center of Roof (Area) U1
(None Detected)



PHOTO No. 42

View of the Location for Roof Flashing **Sample WCRB-34**
(F-1) Obtained from East Side Perimeter of Roof (Area) A1
(None Detected)



PHOTO No. 43

View of the Location for Roof Flashing **Sample WCRB-35**
(F-2) Obtained from North Side Perimeter of Roof (Area) A1
(None Detected)



PHOTO No. 44

View of the Location for Roof Flashing **Sample WCRB-36**
(F-3) Obtained from East Side Perimeter of Roof (Area) D1
(None Detected)

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PHOTO No. 45

View of the Location for Roof Flashing **Sample WCRB-37**
(F-4) Obtained from West Side Perimeter of Roof (Area) D1
(4% Chrysotile Asbestos)



PHOTO No. 46

View of the Location for Roof Flashing **Sample WCRB-38**
(F-5) Obtained from East Side Perimeter of Roof (Area) U4
(None Detected)



PHOTO No. 47

View of the Location for Roof Flashing **Sample WCRB-39**
(F-6) Obtained from North Side Perimeter of Roof (Area) C6
(None Detected)



PHOTO No. 48

View of the Location for Roof Flashing **Sample WCRB-40**
(F-7) Obtained from South Side Perimeter of Roof (Area) C2
(5% Chrysotile Asbestos)

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PHOTO No. 49

View of the Location for Roof Flashing **Sample WCRB-42**
(F-9) Obtained from North Side Perimeter of Southern
Section of Roof (Area) A2 (**None Detected**)



PHOTO No. 50

View of the Location for Roof Flashing **Sample WCRB-43**
(F-10) Obtained from Southeast Section Skylight in Roof
(Area) A2 (**None Detected**)



PHOTO No. 51

View of the Location for Roof Flashing **Sample WCRB-46**
(F-13) Obtained from East Side Perimeter of Roof (Area) F1
(**None Detected**)



PHOTO No. 52

View of the Location for Roof Flashing **Sample WCRB-49**
(F-16) Obtained from Curb Penetration on Roof (Area) E1
(**None Detected**)

Not Pictured was Roof Flashing Sample WCRB-49 (F-15) Obtained from West Side Perimeter of North Section of Roof (Area) A2 (**10% Chrysotile Asbestos**)

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PHOTO No. 53

View of the Location for Roof Flashing **Sample WCRB-50 (F-17)** Obtained from East Side Perimeter of Roof (Area) E1
(None Detected)



PHOTO No. 54

View of the Location for Roof Flashing **Sample WCRB-53 (F-20)** Obtained from North Side Perimeter of Roof (Area) B1
(None Detected)



PHOTO No. 55

View of the Location for Roof Flashing **Sample WCRB-54 (F-21)** Obtained from West Side Perimeter of Roof (Area) B1
(None Detected)



PHOTO No. 56

View of the Location for Infill at Pilaster Downspout **Sample WCRB-56 (S-1)** Obtained from North Side Perimeter of Southern Section of Roof (Area) A2
(4% Chrysotile Asbestos)

**AMERISCI RICHMOND
PLM BULK ASBESTOS REPORT**

**WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
ROOF SYSTEMS REPLACEMENT PROJECT
MEMORIAL AND CULLOWHEE DRIVES
CULLOWHEE, NORTH CAROLINA 28723
PROJECT NO.: OLME-2022-18**



AmeriSci Richmond

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

August 15, 2022

OLM Environmental, LLC
Attn: Oral McGirt
2317 Lockwood Folly Lane
Raleigh, NC 27610

RE: OLM Environmental, LLC
Job Number 122081546
P.O. #OLME-2022-18
OLME-2022-18; WCU Reid Building; Roof Replacement Project

Dear Oral McGirt:

Enclosed are the results for PLM asbestos analysis of the following OLM Environmental, LLC samples received at AmeriSci on Friday, August 12, 2022, for a 3 day turnaround:

Sample ID WCRB-1 through WCRB-57

The 58 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8147 2830 2207 B. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,



Cory M. Parnell
Laboratory Director | Authorized Signatory

**AmeriSci Richmond**

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

OLM Environmental, LLC
Attn: Oral McGirt
2317 Lockwood Folly Lane

Raleigh, NC 27610

Date Received 08/12/22 **AmeriSci Job #** 122081546
Date Examined 08/15/22 **P.O. #**
Page 1 of 24
RE: OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-1	122081546-01.1	No	NAD
Location: Center of Area A1 (C1); EPDM 1-1/2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			
WCRB-1	122081546-01.2	No	NAD
Location: Center of Area A1 (C1); EPDM 1-1/2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Felt			
Asbestos Types:			
Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			
WCRB-1	122081546-01.3	No	NAD
Location: Center of Area A1 (C1); EPDM 1-1/2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation			
Asbestos Types:			
Other Material: Non-fibrous 100%			
WCRB-2	122081546-02.1	No	NAD
Location: Northeast Corner of Area A1 (C2); EPDM 1-1/2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			
WCRB-2	122081546-02.2	No	NAD
Location: Northeast Corner of Area A1 (C2); EPDM 1-1/2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Felt			
Asbestos Types:			
Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-2	122081546-02.3	No	NAD
Location: Northeast Corner of Area A1 (C2); EPDM 1-1/2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-3	122081546-03.1	No	NAD
Location: Southwest Corner of Area D1 (C3); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-3	122081546-03.2	Yes	3%
Location: Southwest Corner of Area D1 (C3); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Chrysotile 3.0 % Other Material: Cellulose 5%, Non-fibrous 92%			
WCRB-3	122081546-03.3	No	NAD
Location: Southwest Corner of Area D1 (C3); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			
WCRB-3	122081546-03.4	No	NAD
Location: Southwest Corner of Area D1 (C3); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-4	122081546-04.1	No	NAD
Location: Northeast Corner of Area D1 (C4); EPDM 1-1/4 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-4	122081546-04.2	Yes	3%
Location: Northeast Corner of Area D1 (C4); EPDM 1-1/4 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck Analyst Description: Black, Heterogeneous, Fibrous, Mastic Asbestos Types: Chrysotile 3.0 % Other Material: Non-fibrous 97%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-4	122081546-04.3	No	NAD
Location: Northeast Corner of Area D1 (C4); EPDM 1-1/4 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-4	122081546-04.4	No	NAD
Location: Northeast Corner of Area D1 (C4); EPDM 1-1/4 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4 Bituminous Vapor Barrier Metal Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-5	122081546-05.1	No	NAD
Location: Center of Area U4 (C5); EPDM 1/2 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier Metal Deck Analyst Description: Brown/White/Brown, Heterogeneous, Fibrous, Drywall Asbestos Types: Other Material: Cellulose 8%, Fibrous glass Trace, Non-fibrous 92%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-5	122081546-05.2	No	NAD
Location: Center of Area U4 (C5); EPDM 1/2 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier Metal Deck Analyst Description: Black, Homogeneous, Non-Fibrous, Roof Membrane Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-5	122081546-05.3	No	NAD
Location: Center of Area U4 (C5); EPDM 1/2 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier Metal Deck Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-5	122081546-05.4	No	NAD
Location: Center of Area U4 (C5); EPDM 1/2 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier Metal Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-6	122081546-06.1	No	NAD
Location: Center of Area C6 (C6); EPDM 1-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-6	122081546-06.2	No	NAD
Location: Center of Area C6 (C6); EPDM 1-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%			
WCRB-6	122081546-06.3	No	NAD
Location: Center of Area C6 (C6); EPDM 1-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			
WCRB-6	122081546-06.4	No	NAD
Location: Center of Area C6 (C6); EPDM 1-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Drywall Asbestos Types: Other Material: Cellulose 4%, Non-fibrous 96%			
WCRB-6	122081546-06.5	No	NAD
Location: Center of Area C6 (C6); EPDM 1-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-7	122081546-07.1	No	NAD
Location: Northeast Corner of Area C2 (C7); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-7	122081546-07.2	No	NAD
Location: Northeast Corner of Area C2 (C7); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck Analyst Description: Black, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Cellulose 5%, Fibrous glass Trace, Non-fibrous 95%, Perlite Trace			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-7	122081546-07.3	No	NAD
Location: Northeast Corner of Area C2 (C7); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-7	122081546-07.4	No	NAD
Location: Northeast Corner of Area C2 (C7); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck Analyst Description: Dark Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-7	122081546-07.5	No	NAD
Location: Northeast Corner of Area C2 (C7); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-8	122081546-08.1	No	NAD
Location: East Side of Area C5 (C8); EPDM 1-1/4 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier 1/4 Bituminous Vapor Barrier Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-8	122081546-08.2	No	NAD
Location: East Side of Area C5 (C8); EPDM 1-1/4 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier 1/4 Bituminous Vapor Barrier Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-8	122081546-08.3	No	NAD
Location: East Side of Area C5 (C8); EPDM 1-1/4 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier 1/4 Bituminous Vapor Barrier Analyst Description: Black, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Cellulose 10%, Non-fibrous 90%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-8	122081546-08.4	No	NAD
Location: East Side of Area C5 (C8); EPDM 1-1/4 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier 1/4 Bituminous Vapor Barrier Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-8	122081546-08.5	No	NAD
Location: East Side of Area C5 (C8); EPDM 1-1/4 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation 5/8 Gypsum Wallboard Thermal Barrier 1/4 Bituminous Vapor Barrier Analyst Description: White/Tan, Heterogeneous, Fibrous, Tectum Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-9	122081546-09.1	No	NAD
Location: Southern Portion of Area A2 (C9); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-9	122081546-09.2	No	NAD
Location: Southern Portion of Area A2 (C9); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Fibrous glass Trace, Non-fibrous 85%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement
Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-9	122081546-09.3	No	NAD
Location: Southern Portion of Area A2 (C9); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Felt			
Asbestos Types:			
Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			
WCRB-9	122081546-09.4	No	NAD
Location: Southern Portion of Area A2 (C9); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation			
Asbestos Types:			
Other Material: Non-fibrous 100%			
WCRB-10	122081546-10.1	No	NAD
Location: Southeast Section of Area A2 (C10); EPDM 1 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-10	122081546-10.2	No	NAD
Location: Southeast Section of Area A2 (C10); EPDM 1 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 15%, Non-fibrous 85%			
WCRB-10	122081546-10.3	No	NAD
Location: Southeast Section of Area A2 (C10); EPDM 1 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Felt			
Asbestos Types:			
Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			
WCRB-10	122081546-10.4	No	NAD
Location: Southeast Section of Area A2 (C10); EPDM 1 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation			
Asbestos Types:			
Other Material: Non-fibrous 100%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-11	122081546-11	No	NAD
Location: South Side of Area A4 (C11); Asphalt Shingle Underlayment Plywood Sheathing			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Dark Brown/Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 5%, Non-fibrous 95%			
WCRB-12	122081546-12	No	NAD
Location: North Side of Area A4 (C12); Asphalt Shingle Underlayment Plywood Sheathing			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Dark Brown/Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 5%, Non-fibrous 95%			
WCRB-13	122081546-13.1	No	NAD
Location: Center of East Section of Area A2 (C13); EPDM 5/8 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1/2"			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-13	122081546-13.2	No	NAD
Location: Center of East Section of Area A2 (C13); EPDM 5/8 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1/2"			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%, Perlite Trace			
WCRB-13	122081546-13.3	No	NAD
Location: Center of East Section of Area A2 (C13); EPDM 5/8 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1/2"			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			
WCRB-13	122081546-13.4	No	NAD
Location: Center of East Section of Area A2 (C13); EPDM 5/8 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1-1/2 Polyisocyanurate Insulation 1/2"			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-14	122081546-14.1	No	NAD
Location: Center of Area B3 (C14); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3 Thermoset Fill Concrete Deck Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-14	122081546-14.2	No	NAD
Location: Center of Area B3 (C14); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3 Thermoset Fill Concrete Deck Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%, Perlite Trace			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-14	122081546-14.3	No	NAD
Location: Center of Area B3 (C14); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3 Thermoset Fill Concrete Deck Analyst Description: Black, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-14	122081546-14.4	No	NAD
Location: Center of Area B3 (C14); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3 Thermoset Fill Concrete Deck Analyst Description: Orange, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-15	122081546-15.1	No	NAD
Location: Center of Area U3 (C15); EPDM 2-1/4 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation Black Plastic Sheeting Analyst Description: Black, Heterogeneous, Non-Fibrous, Cover Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-15	122081546-15.2	No	NAD
Location: Center of Area U3 (C15); EPDM 2-1/4 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation Black Plastic Sheeting Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-15	122081546-15.3	No	NAD
Location: Center of Area U3 (C15); EPDM 2-1/4 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation Black Plastic Sheeting Analyst Description: Dark Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-15	122081546-15.4	No	NAD
Location: Center of Area U3 (C15); EPDM 2-1/4 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation Black Plastic Sheeting Analyst Description: Brown/Gray, Heterogeneous, Fibrous, Drywall Asbestos Types: Other Material: Cellulose 7%, Fibrous glass Trace, Non-fibrous 93%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-15	122081546-15.5	No	NAD
Location: Center of Area U3 (C15); EPDM 2-1/4 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 3 Polyisocyanurate Insulation Black Plastic Sheeting Analyst Description: White, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-16	122081546-16.1	No	NAD
Location: Northeast Corner of Area A2 (C16); EPDM 3/4" Polyisocyanurate Insulation 1/2" Built-up Roof 4 Thermoset Fill Tectum Deck Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 4%, Non-fibrous 96%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-16	122081546-16.2	No	NAD
Location: Northeast Corner of Area A2 (C16); EPDM 3/4" Polyisocyanurate Insulation 1/2" Built-up Roof 4 Thermoset Fill Tectum Deck Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%, Perlite Trace			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-16	122081546-16.3	No	NAD
Location: Northeast Corner of Area A2 (C16); EPDM 3/4" Polyisocyanurate Insulation 1/2" Built-up Roof 4 Thermoset Fill Tectum Deck Analyst Description: Black, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-16	122081546-16.4	No	NAD
Location: Northeast Corner of Area A2 (C16); EPDM 3/4" Polyisocyanurate Insulation 1/2" Built-up Roof 4 Thermoset Fill Tectum Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-17	122081546-17.1	No	NAD
Location: Center of Area F1 (C17); EPDM 1 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 4%, Non-fibrous 96%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-17	122081546-17.2	No	NAD
Location: Center of Area F1 (C17); EPDM 1 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 95%, Fibrous glass Trace, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-17	122081546-17.3	No	NAD
Location: Center of Area F1 (C17); EPDM 1 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-18	122081546-18.1	No	NAD
Location: South Side of Area F1 (C18); EPDM 1 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation Analyst Description: Black, Heterogeneous, Fibrous, Roof Membrane Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-18	122081546-18.2	No	NAD
Location: South Side of Area F1 (C18); EPDM 1 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-18	122081546-18.3	No	NAD
Location: South Side of Area F1 (C18); EPDM 1 Polyisocyanurate Insulation 1 Polyisocyanurate Insulation Analyst Description: Yellow, Homogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-19	122081546-19.1	No	NAD
Location: Northwest Corner of Area A2 (C19); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3-1/2 Thermoset Fill Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 7%, Non-fibrous 93%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-19	122081546-19.2	No	NAD
Location: Northwest Corner of Area A2 (C19); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3-1/2 Thermoset Fill Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-19	122081546-19.3	No	NAD
Location: Northwest Corner of Area A2 (C19); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3-1/2 Thermoset Fill Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-20	122081546-20.1	No	NAD
Location: West Side of Area A2 (C20); EPDM 1-1/2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3/8 Bituminous Vapor Barrier Tectum Deck Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Non-fibrous 85%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-20	122081546-20.2	No	NAD
Location: West Side of Area A2 (C20); EPDM 1-1/2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3/8 Bituminous Vapor Barrier Tectum Deck Analyst Description: Black, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-20	122081546-20.3	No	NAD
Location: West Side of Area A2 (C20); EPDM 1-1/2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 3/8 Bituminous Vapor Barrier Tectum Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-21	122081546-21.1	No	NAD
Location: South Side of Northern Section of Area A2 (C21); EPDM 1-1/2 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-21	122081546-21.2	No	NAD
Location: South Side of Northern Section of Area A2 (C21); EPDM 1-1/2 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-21	122081546-21.3	No	NAD
Location: South Side of Northern Section of Area A2 (C21); EPDM 1-1/2 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-22	122081546-22.1	No	NAD
Location: East Side of Northern Section of Area A2 (C22); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2 Thermoset Fill Tectum Deck Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 10%, Synthetic fibers 5%, Non-fibrous 85%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-22	122081546-22.2	No	NAD
Location: East Side of Northern Section of Area A2 (C22); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2 Thermoset Fill Tectum Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-23	122081546-23.1	No	NAD
Location: North Side of Area A2 (C23); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2 Thermoset Fill Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 10%, Synthetic fibers 5%, Non-fibrous 85%			
WCRB-23	122081546-23.2	No	NAD
Location: North Side of Area A2 (C23); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2 Thermoset Fill Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			
WCRB-23	122081546-23.3	No	NAD
Location: North Side of Area A2 (C23); EPDM 1 Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2 Thermoset Fill Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-24	122081546-24.1	No	NAD
Location: South Side of Area E1 (C24); EPDM 2 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4"			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 10%, Synthetic fibers 5%, Non-fibrous 85%			
WCRB-24	122081546-24.2	No	NAD
Location: South Side of Area E1 (C24); EPDM 2 Polyisocyanurate Insulation 2-1/2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/4"			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-25	122081546-25.1	No	NAD
Location: Northwest Corner of Area E1 (C25); EPDM 1-1/4 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 5%, Synthetic fibers 5%, Non-fibrous 90%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-25	122081546-25.2	No	NAD
Location: Northwest Corner of Area E1 (C25); EPDM 1-1/4 Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-26	122081546-26.1	No	NAD
Location: Center of Area U2 (C26); EPDM 1 Polyisocyanurate Insulation 1/4" Built-up Roof 3-1/2 Thermoset Fill Asphaltic Mopped Layer 3 Wood Fiberboard Concrete			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10%, Synthetic fibers 5%, Non-fibrous 85%			
WCRB-26	122081546-26.2	No	NAD
Location: Center of Area U2 (C26); EPDM 1 Polyisocyanurate Insulation 1/4" Built-up Roof 3-1/2 Thermoset Fill Asphaltic Mopped Layer 3 Wood Fiberboard Concrete			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Brown, Heterogeneous, Fibrous, Insulation Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			
WCRB-26	122081546-26.3	No	NAD
Location: Center of Area U2 (C26); EPDM 1 Polyisocyanurate Insulation 1/4" Built-up Roof 3-1/2 Thermoset Fill Asphaltic Mopped Layer 3 Wood Fiberboard Concrete			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-27	122081546-27.1	No	NAD
Location: North Side of Area A2 (C27); EPDM 1 Polyisocyanurate Insulation 3 Thermoset Fill 1/2" Built-up Roof Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 7%, Synthetic fibers 5%, Non-fibrous 88%			
WCRB-27	122081546-27.2	No	NAD
Location: North Side of Area A2 (C27); EPDM 1 Polyisocyanurate Insulation 3 Thermoset Fill 1/2" Built-up Roof Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-27	122081546-27.3	No	NAD
Location: North Side of Area A2 (C27); EPDM 1 Polyisocyanurate Insulation 3 Thermoset Fill 1/2" Built-up Roof Tectum Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-28	122081546-28.1	No	NAD
Location: Southwest Corner of Southern Section of Area A3 (C28); EPDM 1/2" Wood Fiberboard 1-1/2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-28	122081546-28.2	No	NAD
Location: Southwest Corner of Southern Section of Area A3 (C28); EPDM 1/2" Wood Fiberboard 1-1/2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck Analyst Description: Brown, Heterogeneous, Fibrous, Insulation Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-28	122081546-28.3	No	NAD
Location: Southwest Corner of Southern Section of Area A3 (C28); EPDM 1/2" Wood Fiberboard 1-1/2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck Analyst Description: Yellow, Homogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-29	122081546-29.1	No	NAD
Location: Middle Section of Area A3 - Bottom of Slope (C29); EPDM 1/2" Wood Fiberboard 1-1/2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-29	122081546-29.2	No	NAD
Location: Middle Section of Area A3 - Bottom of Slope (C29); EPDM 1/2" Wood Fiberboard 1-1/2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Analyst Description: Brown, Heterogeneous, Fibrous, Insulation Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-29	122081546-29.3	No	NAD
Location: Middle Section of Area A3 - Bottom of Slope (C29); EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-29	122081546-29.4	No	NAD
Location: Middle Section of Area A3 - Bottom of Slope (C29); EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Cementitious Material Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-30	122081546-30.1	No	NAD
Location: Northeast Corner of Northern Section of Area A3 (C30); EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			
WCRB-30	122081546-30.2	No	NAD
Location: Northeast Corner of Northern Section of Area A3 (C30); EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Brown, Heterogeneous, Fibrous, Insulation Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			
WCRB-30	122081546-30.3	No	NAD
Location: Northeast Corner of Northern Section of Area A3 (C30); EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-31	122081546-31.1	No	NAD
Location: South Central Side of Area B1 (C31); EPDM 3 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-31	122081546-31.2	No	NAD
Location: South Central Side of Area B1 (C31); EPDM 3 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck Analyst Description: Gray, Heterogeneous, Non-Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-31	122081546-31.3	No	NAD
Location: South Central Side of Area B1 (C31); EPDM 3 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-32	122081546-32.1	No	NAD
Location: Southeast Side of Area B1 (C32); EPDM 2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-32	122081546-32.2	No	NAD
Location: Southeast Side of Area B1 (C32); EPDM 2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation Analyst Description: Gray, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-32	122081546-32.3	No	NAD
Location: Southeast Side of Area B1 (C32); EPDM 2 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation Analyst Description: Yellow-White, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			(by CVES) by David W. Ralbovsky on 08/15/22
WCRB-33	122081546-33.1	No	NAD
Location: Center of Area U1 (C33); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/2 Bituminous Vapor Barrier Concrete Deck Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 15%, Synthetic fibers 5%, Non-fibrous 80%			(by CVES) by David W. Ralbovsky on 08/15/22

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-33	122081546-33.2	No	NAD
Location: Center of Area U1 (C33); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/2 Bituminous Vapor Barrier Concrete Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 93%, Fibrous glass 2%, Non-fibrous 5%			
WCRB-33	122081546-33.3	No	NAD
Location: Center of Area U1 (C33); EPDM 1 Polyisocyanurate Insulation 2 Polyisocyanurate Insulation 1/2 Bituminous Vapor Barrier Concrete Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-34	122081546-34.1	No	NAD
Location: East Side Perimeter of Area A1 (F1); EPDM 1 Polyisocyanurate Insulation 3 Thermoset Fill 1/2" Built-up Roof Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Cellulose 3%, Synthetic fibers 5%, Non-fibrous 92%			
WCRB-34	122081546-34.2	No	NAD
Location: East Side Perimeter of Area A1 (F1); EPDM 1 Polyisocyanurate Insulation 3 Thermoset Fill 1/2" Built-up Roof Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			
WCRB-35	122081546-35.1	No	NAD
Location: North Side Perimeter of Area A1 (F2); EPDM Flashing Polyisocyanurate Insulation Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 5%, Synthetic fibers 5%, Non-fibrous 90%			
WCRB-35	122081546-35.2	No	NAD
Location: North Side Perimeter of Area A1 (F2); EPDM Flashing Polyisocyanurate Insulation Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Insulation Asbestos Types: Other Material: Non-fibrous 100%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-36	122081546-36	No	NAD
Location: East Side Perimeter of Area D1 (F3); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-37	122081546-37	Yes	4%
Location: West Side Perimeter of Area D1 (F4); EPDM Flashing Bituminous Vapor Barrier Brick Masonry			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Cellulose 10%, Non-fibrous 86%			
WCRB-38	122081546-38	No	NAD
Location: East Side Perimeter of Area U4 (F5); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100%			
WCRB-39	122081546-39	No	NAD
Location: North Side Perimeter of Area C6 (F6); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-40	122081546-40	Yes	5%
Location: South Side Perimeter of Area C2 (F7); EPDM Flashing Wood Blocking			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Cellulose 3%, Synthetic fibers 4%, Non-fibrous 88%			
WCRB-41	122081546-41	No	NAD
Location: West Side Perimeter of Area C5 (F8); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-42	122081546-42	No	NAD
Location: North Side Perimeter of Southern Section of Area A2 (F9); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-43	122081546-43	No	NAD
Location: Southeast Section Skylight in Area A2 (F10); EPDM Flashing Metal Curb			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-44	122081546-44	No	NAD
Location: West Side Perimeter of East Section of Area A2 (F11); EPDM Flashing Wood Blocking			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-45	122081546-45.1	No	NAD
Location: East Side Perimeter of East Section of Area A2 (F12); EPDM Flashing Polyisocyanurate Insulation Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 5%, Synthetic fibers 5%, Non-fibrous 90%			
WCRB-45	122081546-45.2	No	NAD
Location: East Side Perimeter of East Section of Area A2 (F12); EPDM Flashing Polyisocyanurate Insulation Bituminous Vapor Barrier Tectum Deck			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Insulation			
Asbestos Types:			
Other Material: Non-fibrous 100%			
WCRB-46	122081546-46	No	NAD
Location: East Side Perimeter of Area F1 (F13); EPDM Flashing CMU Block Wall			(by CVES) by David W. Ralbovsky on 08/15/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5%, Non-fibrous 95%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-47	122081546-47	No	NAD
Location: Curb Penetration in Area F1 (F14); EPDM Flashing Metal Curb			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 10%, Non-fibrous 90%			
WCRB-48	122081546-48	Yes	10%
Location: West Side Perimeter of Northern Section of Area A2 (F15); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 10.0 % Other Material: Cellulose 60%, Non-fibrous 30%			
WCRB-49	122081546-49	No	NAD
Location: Curb Penetration on Area E1 (F16); EPDM Flashing Metal Curb			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 10%, Non-fibrous 90%			
WCRB-50	122081546-50	No	NAD
Location: East Side Perimeter of Area E1 (F17); EPDM Flashing Wood Blocking			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-51	122081546-51	No	NAD
Location: North Side Perimeter of Middle Section of Area A3 (F18); EPDM Flashing Wood Blocking			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-52	122081546-52	No	NAD
Location: South Side Perimeter of Northern Section of Area A3 (F19); EPDM Flashing Flexible Sheet Metal			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			

PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-53	122081546-53.1	No	NAD
Location: North Side Perimeter of Area B1 (F20); EPDM Flashing Gypsum Wallboard Sheathing			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Flashing Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-53	122081546-53.2	No	NAD
Location: North Side Perimeter of Area B1 (F20); EPDM Flashing Gypsum Wallboard Sheathing			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Off-White, Heterogeneous, Fibrous, Wall Board Asbestos Types: Other Material: Cellulose 2%, Fibrous glass Trace, Non-fibrous 98%			
WCRB-54	122081546-54	No	NAD
Location: West Side Perimeter of Area B1 (F21); EPDM Flashing Wood Blocking			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-55	122081546-55	No	NAD
Location: East Side Perimeter of Area U1 (F22); EPDM Flashing Brick Masonry			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 5%, Non-fibrous 95%			
WCRB-56	122081546-56.1	No	NAD
Location: North Side Perimeter of Southern Section of Area A2 (S1); Infill at Pilaster Downspout			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: White, Heterogeneous, Fibrous, Wrap Asbestos Types: Other Material: Cellulose 95%, Non-fibrous 5%			
WCRB-56	122081546-56.2	Yes	4%
Location: North Side Perimeter of Southern Section of Area A2 (S1); Infill at Pilaster Downspout			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Infill Asbestos Types: Chrysotile 4.0 % Other Material: Non-fibrous 96%			

Client Name: OLM Environmental, LLC

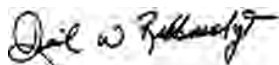
PLM Bulk Asbestos Report

OLME-2022-18; WCU Reid Building; Roof Replacement Project

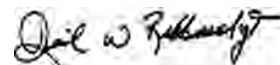
Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WCRB-57	122081546-57	Yes	4%
Location: North Side Perimeter of Southern Section of Area A2 (S2); Infill at Pilaster Downspout			(by CVES) by David W. Ralbovsky on 08/14/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Non-fibrous 96%			

Reporting Notes:

Analyzed by: David W. Ralbovsky
Date: 8/15/2022



Reviewed by: David W. Ralbovsky



*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #229707, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

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ASBESTOS BULK SAMPLING RECORD

OLM ENVIRONMENTAL, LLC
 2317 Lockwood Folly Lane; Raleigh, North Carolina 27610
 Home/Office Phone: 919-212-3019
 Cellphone: 919-931-0629 (preferred)

FACILITY NAME: WCU Reid Building Roof Replacement Project SurveyOLME PROJECT No. OLME-2022-018DATE(S) SAMPLES COLLECTED: August 2-3, 2022


DATE RECEIVED IN LAB: _____

SAMPLER'S NAME: Oral L. McGirt/Hannah Ford/Kelli Wilcox/Tim Ford

RECEIVER'S NAME: _____

SAMPLER'S SIGNATURE: 

RECEIVER'S SIGNATURE: _____

Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-1	Center of Area A1 (C1)	EPDM 1-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			
WCRB-2	Northeast Corner of Area A1 (C2)	EPDM 1-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			
WCRB-3	Southwest Corner of Area D1 (C3)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck			
WCRB-4	Northeast Corner of Area D1 (C4)	EPDM 1-1/4" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 3" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck			Received AUG 12 2022 

Analyst's Signature: _____

Analysis Method: PLM with Dispersion Staining

"ANALYZE TO FIRST POSITIVE"

122081546

ASBESTOS BULK SAMPLING RECORD

OLM ENVIRONMENTAL, LLC
 2317 Lockwood Folly Lane; Raleigh, North Carolina 27610
 Home/Office Phone: 919-212-3019
 Cellphone: 919-931-0629 (preferred)

FACILITY NAME: WCU Reid Building Roof Replacement Project SurveyOLME PROJECT No. OLME-2022-018DATE(S) SAMPLES COLLECTED: August 2-3, 2022

DATE RECEIVED IN LAB: _____

SAMPLER'S NAME: Oral L. McGirt/Hannah Ford/Kelli Wilcox/Tim Ford

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SAMPLER'S SIGNATURE: 

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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-5	Center of Area U4 (C5)	EPDM 1/2" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier Metal Deck			
WCRB-6	Center of Area C6 (C6)	EPDM 1-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier Metal Deck			
WCRB-7	Northeast Corner of Area C2 (C7)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Metal Deck			

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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-8	East Side of Area C5 (C8)	EPDM 1-1/4" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier 1/4" Bituminous Vapor Barrier Metal Deck			
WCRB-9	Southern Portion of Area A2 (C9)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			
WCRB-10	Southeast Section of Area A2 (C10)	EPDM 1" Polyisocyanurate Insulation 3" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			

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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-11	South Side of Area A4 (C11)	Asphalt Shingle Underlayment Plywood Sheathing			
WCRB-12	North Side of Area A4 (C12)	Asphalt Shingle Underlayment Plywood Sheathing			
WCRB-13	Center of East Section of Area A2 (C13)	EPDM 5/8" Polyisocyanurate Insulation 1-1/2" Polyisocyanurate Insulation 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck			
WCRB-14	Center of Area B3 (C14)	EPDM 1" Polyisocyanurate Insulation 1/2" Built-up Roof 3" Thermoset Fill Concrete Deck			Received

AUG 12 2022



Analyst's Signature: _____

Analysis Method: PLM with Dispersion Staining

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ASBESTOS BULK SAMPLING RECORD

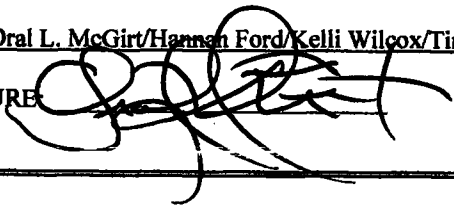
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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-15	Center of Area U3 (C15)	EPDM 2-1/4" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 3" Polyisocyanurate Insulation Black Plastic Sheeting Gypsum Deck			
WCRB-16	Northeast Corner of Area A2 (C16)	EPDM 3/4" Polyisocyanurate Insulation 1/2" Built-up Roof 4" Thermoset Fill Tectum Deck			
WCRB-17	Center of Area F1 (C17)	EPDM 1" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier Metal Deck			Received

AUG 12 2022

Analyst's Signature: _____

Analysis Method: PLM with Dispersion Staining

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ASBESTOS BULK SAMPLING RECORD

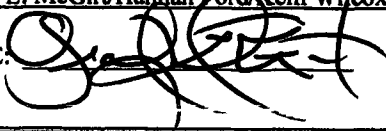
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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-18	South Side of Area F1 (C18)	EPDM 1" Polyisocyanurate Insulation 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 5/8" Gypsum Wallboard Thermal Barrier Metal Deck			
WCRB-19	Northwest Corner of Area A2 (C19)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 3-1/2" Thermoset Fill Tectum Deck			
WCRB-20	West Side of Area A2 (C20)	EPDM 1-1/2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 3/8" Bituminous Vapor Barrier Tectum Deck			Received

AUG 12 2022


Analyst's Signature: _____

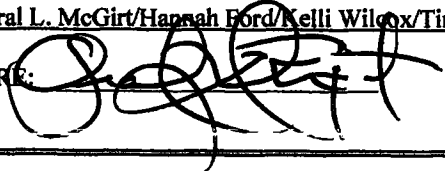
Analysis Method: PLM with Dispersion Staining

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FACILITY NAME: WCU Reid Building Roof Replacement Project SurveyDATE(S) SAMPLES COLLECTED: August 2-3, 2022SAMPLER'S NAME: Oral L. McGirt/Hannah Ford/Kelli Wilcox/Tim FordSAMPLER'S SIGNATURE: OLME PROJECT No. OLME-2022-018


DATE RECEIVED IN LAB: _____

RECEIVER'S NAME: _____

RECEIVER'S SIGNATURE: _____

Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-21	South Side of Northern Section of Area A2 (C21)	EPDM 1-1/2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			
WCRB-22	East Side of Northern Section of Area A2 (C22)	EPDM 1" Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2" Thermoset Fill Tectum Deck			
WCRB-23	North Side of Area A2 (C23)	EPDM 1" Polyisocyanurate Insulation 1/2" Built-up Roof 3-1/2" Thermoset Fill Tectum Deck			

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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-24	South Side of Area E1 (C24)	EPDM 2" Polyisocyanurate Insulation 2-1/2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			
WCRB-25	Northwest Corner of Area E1 (C25)	EPDM 1-1/4" Polyisocyanurate Insulation 1/4" Bituminous Vapor Barrier Tectum Deck			
WCRB-26	Center of Area U2 (C26)	EPDM 1" Polyisocyanurate Insulation 1/4" Built-up Roof 3-1/2" Thermoset Fill Asphaltic "Mopped" Layer 3" Wood Fiberboard Concrete Deck			Received

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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-27	North Side of Area A2 (C27)	EPDM 1" Polyisocyanurate Insulation 3" Thermoset Fill 1/2" Built-up Roof Tectum Deck			
WCRB-28	Southwest Corner of Southern Section of Area A3 (C28)	EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck			
WCRB-29	Middle Section of Area A3 - Bottom of Slope (C29)	EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier 3" Thermoset Fill 1/4" Bituminous Vapor Barrier 1/2" Gypsum Wallboard Thermal Barrier Tectum Deck			Received

AUG 12 2022

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SAMPLER'S SIGNATURE: 

RECEIVER'S SIGNATURE: _____

Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-30	Northeast Corner of Northern Section of Area A3 (C30)	EPDM 1/2" Wood Fiberboard 1-1/2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Tectum Deck			
WCRB-31	South Central Side of Area B1 (C31)	EPDM 3" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck			
WCRB-32	Southeast Side of Area B1 (C32)	EPDM 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck			Received

AUG 12 2022


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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-33	Center of Area U1 (C33)	EPDM 1" Polyisocyanurate Insulation 2" Polyisocyanurate Insulation 1/2" Bituminous Vapor Barrier Concrete Deck			
WCRB-34	East Side Perimeter of Area A1 (F1)	EPDM 1" Polyisocyanurate Insulation 3" Thermoset Fill 1/2" Built-up Roof Tectum Deck			
WCRB-35	North Side Perimeter of Area A1 (F2)	EPDM Flashing Polyisocyanurate Insulation Vapor Barrier Tectum Deck			
WCRB-36	East Side Perimeter of Area D1 (F3)	EPDM Flashing Brick Masonry			Received

AUG 12 2022

3

Analyst's Signature: _____

Analysis Method: PLM with Dispersion Staining

"ANALYZE TO FIRST POSITIVE"

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ASBESTOS BULK SAMPLING RECORD

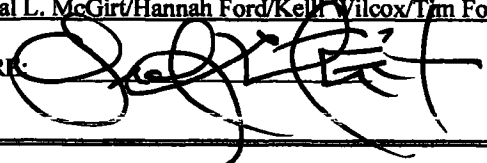
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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-37	West Side Perimeter of Area D1 (F4)	EPDM Flashing Bituminous Vapor Barrier Brick Masonry			
WCRB-38	East Side Perimeter of Area U4 (F5)	EPDM Flashing Brick Masonry			
WCRB-39	North Side Perimeter of Area C6 (F6)	EPDM Flashing Brick Masonry			
WCRB-40	South Side Perimeter of Area C2 (F7)	EPDM Flashing Wood Blocking			
WCRB-41	West Side Perimeter of Area C5 (F8)	EPDM Flashing Brick Masonry			
WCRB-42	North Side Perimeter of Southern Section of Area A2 (F9)	EPDM Flashing Brick Masonry			Received
WCRB-43	Southeast Section Skylight in Area A2 (F10)	EPDM Flashing Metal Curb			AUG 12 2022

Analyst's Signature: _____

Analysis Method: PLM with Dispersion Staining

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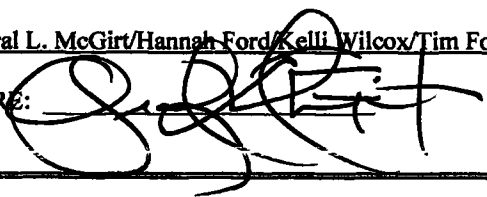
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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-44	West Side Perimeter of East Section of Area A2 (F11)	EPDM Flashing Wood Blocking			
WCRB-45	East Side Perimeter of East Section of Area A2 (F12)	EPDM Flashing Polyisocyanurate Insulation Bituminous Vapor Barrier Tectum Deck			
WCRB-46	East Side Perimeter of Area F1 (F13)	EPDM Flashing CMU Block Wall			
WCRB-47	Curb Penetration in Area F1 (F14)	EPDM Flashing Metal Curb			
WCRB-48	West Side Perimeter of Northern Section of Area A2 (F15)	EPDM Flashing Brick Masonry			
WCRB-49	Curb Penetration on Area E1 (F16)	EPDM Flashing Metal Curb			Received
WCRB-50	East Side Perimeter of Area E1 (F17)	EPDM Flashing Wood Blocking			AUG 12 2022

Analyst's Signature: _____

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Sample Field I.D. No.	Sample Location	Type of Material	Type of Asbestos	Percentage Asbestos	Estimated Quantity (If Req'd by Client)
WCRB-51	North Side Perimeter of Middle Section of Area A3 (F18)	EPDM Flashing Wood Blocking			
WCRB-52	South Side Perimeter of Northern Section of Area A3 (F19)	EPDM Flashing Flexible Sheet Metal			
WCRB-53	North Side Perimeter of Area B1 (F20)	EPDM Flashing Gypsum Wallboard Sheathing			
WCRB-54	West Side Perimeter of Area B1 (F21)	EPDM Flashing Wood Blocking			
WCRB-55	East Side Perimeter of Area U1 (F22)	EPDM Flashing Brick Masonry			
WCRB-56	North Side Perimeter of Southern Section of Area A2 (S1)	Infill at Pilaster Downspout			
WCRB-57	North Side Perimeter of Southern Section of Area A2 (S2)	Infill at Pilaster Downspout			Received

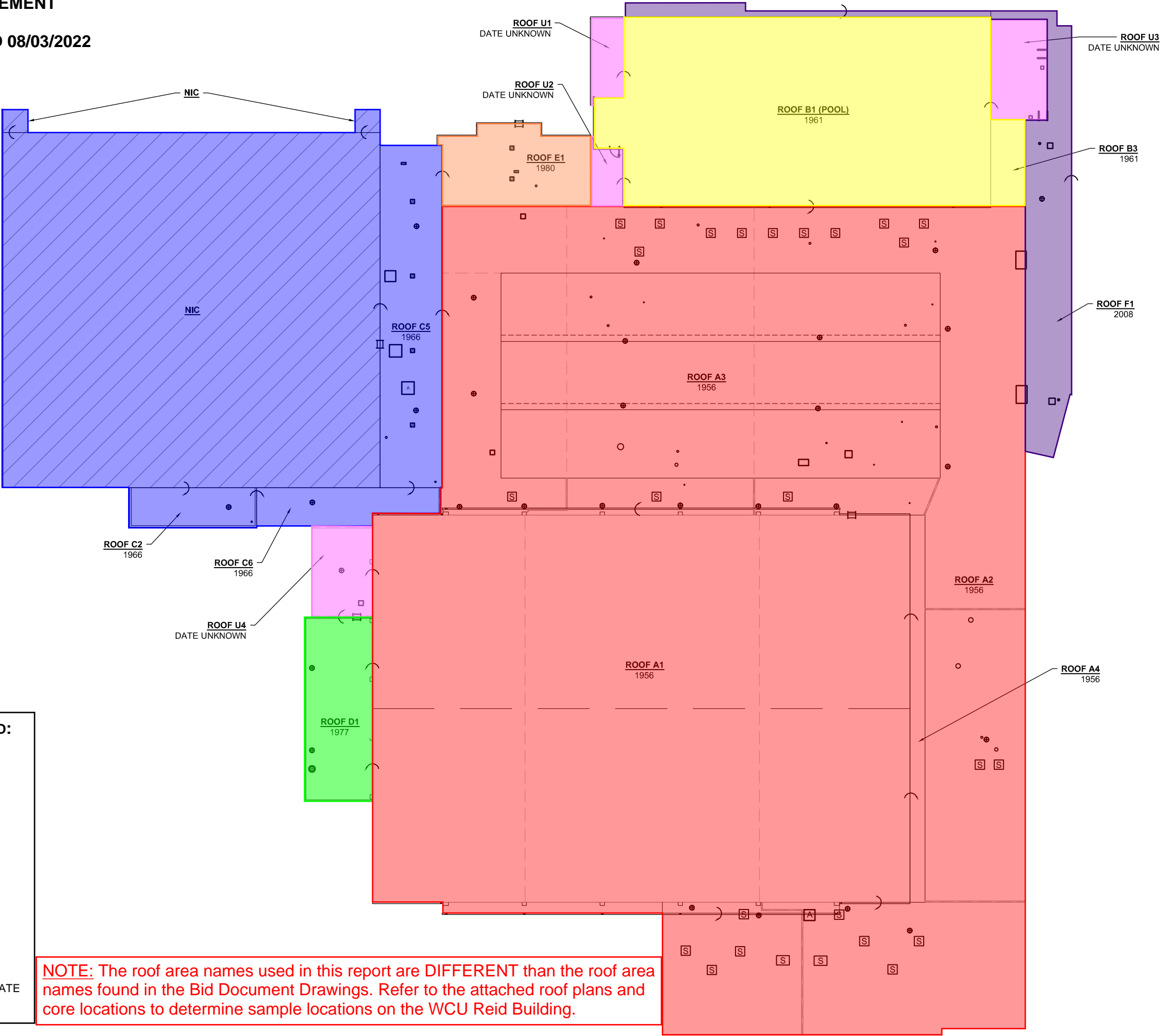
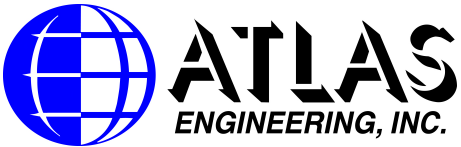
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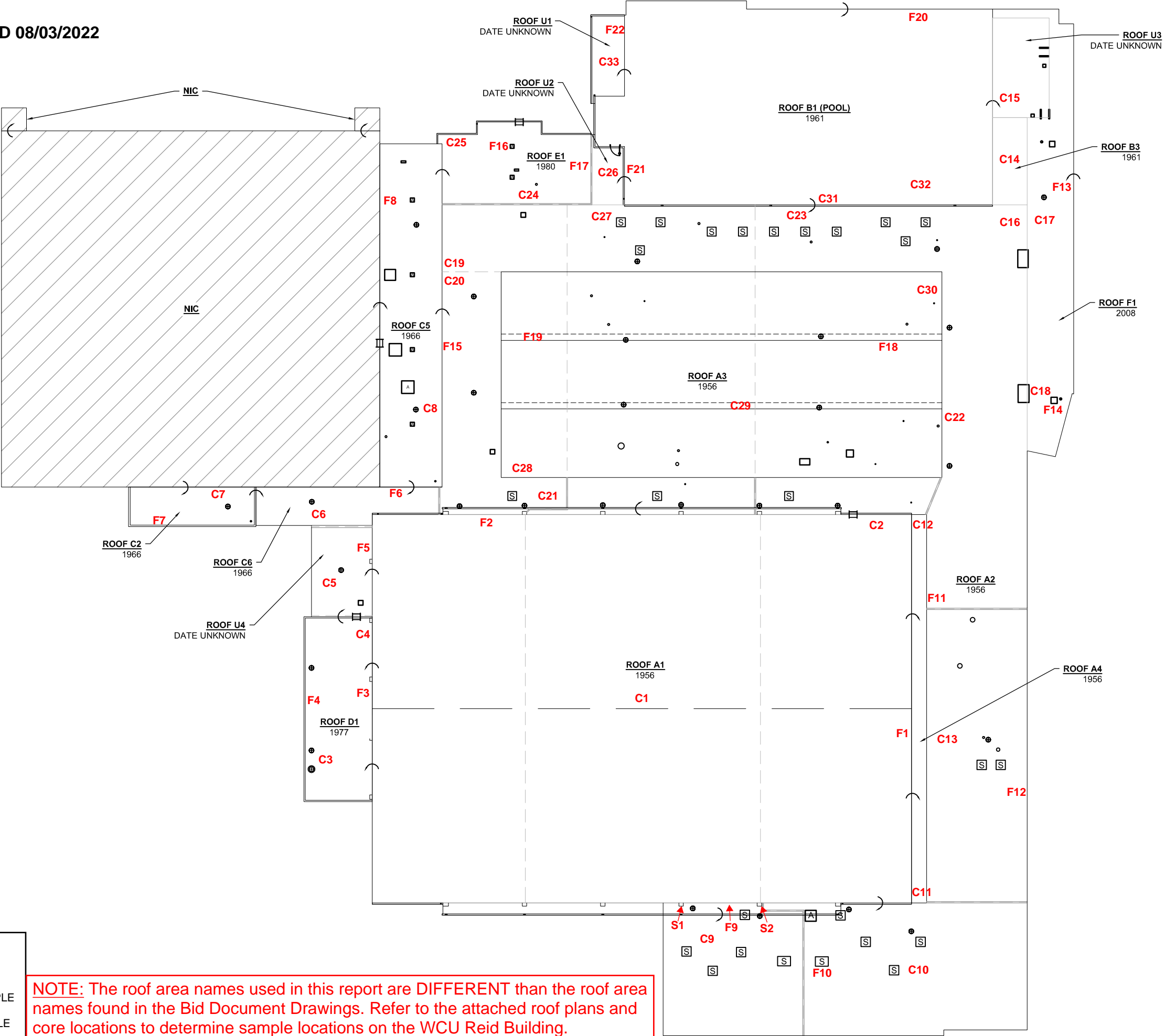
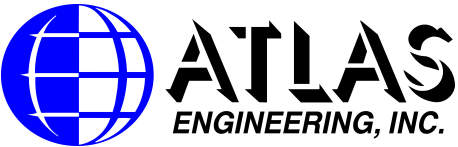
SITE LAYOUT DRAWING
WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
ROOF SYSTEMS REPLACEMENT PROJECT
MEMORIAL AND CULLOWHEE DRIVES
CULLOWHEE, NORTH CAROLINA 28723
PROJECT NO.: OLME-2022-18



CONSTRUCTION YEAR LEGEND:

- = CONSTRUCTED IN 1956
- = CONSTRUCTED IN 1961
- = CONSTRUCTED IN 1966
- = CONSTRUCTED IN 1977
- = CONSTRUCTED IN 1980
- = CONSTRUCTED IN 2008
- = UNKNOWN CONSTRUCTION DATE

BUILDING SAMPLING LOCATIONS DRAWING
WESTERN CAROLINA UNIVERSITY
REID HEALTH AND HUMAN PERFORMANCE BUILDING
ROOF SYSTEMS REPLACEMENT PROJECT
MEMORIAL AND CULLOWHEE DRIVES
CULLOWHEE, NORTH CAROLINA 28723
PROJECT NO.: OLME-2022-18



LEGEND

C# = APPROX. LOCATION OF CORE SAMPLE

F# = APPROX. LOCATION OF FLASHING SAMPLE

S# = APPROX. LOCATION OF SEALANT SAMPLE

NOTE: The roof area names used in this report are DIFFERENT than the roof area names found in the Bid Document Drawings. Refer to the attached roof plans and core locations to determine sample locations on the WCU Reid Building.