

## Specifications for: Roncalli Demolition

### DIVISION 00-BIDDING DOCUMENTS- Provided by Pueblo SD-60

GENERAL REQUIREMENTS

INSTRUCTION TO BIDDERS

PREPARATION OF BIDS

SPECIFIED PRODUCTS

BID GUARANTY/PERFORMANCE& PAYMENT BOND

BID SUBMISSION PROCESS

BID EVALUATION PROCESS

CLAIM OF ERROR

CONTRACT AWARD AND EXECUTION

DEFINITION AND SECTION TITLES

GENERAL CONDITIONS

### DIVISION 01-GENERAL REQUIREMENTS

SUMMARY	01 10 00
UNIT PRICES	01 22 00
CONTRACT MODIFICATION PROCEDURES	01 26 00
PAYMENT PROCEDURES	01 29 00
PROJECT MANAGEMENT AND COORDINATION	01 31 00
CONSTRUCTION PROGRESS DOCUMENTATION	01 32 00
PHOTOGRAPHIC DOCUMENTATION	01 32 33
TEMPORARY FACILITIES AND CONTROLS	01 50 00
TEMPORARY TREE AND PLANT PROTECTION	01 56 39
TEMPORARY STORMWATER POLLUTION CONTROL	01 57 23

Specifications for: Roncalli Demolition

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL	01 74 19
CLOSEOUT PROCEDURES	01 77 00

DIVISION 2-EXISTING CONDITIONS

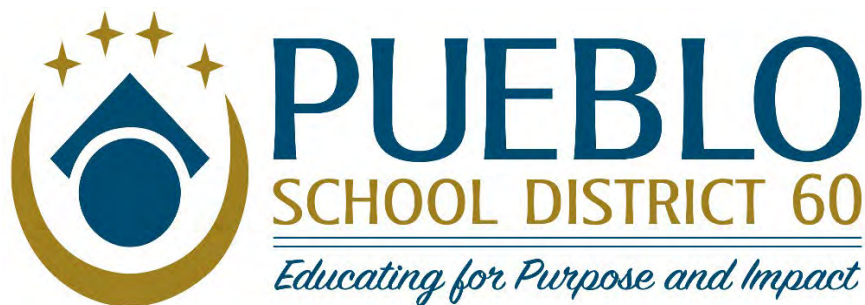
STRUCTURE DEMOLITION	02 41 16
----------------------	----------

DIVISION 31-EARTHWORK

SITE CLEARING	31 10 00
EARTH MOVING	31 20 00

DIVISION 32- EXTERIOR IMPROVEMENTS

SOIL PREPARATION	32 91 15
NATURAL AREA SEEDING	32 92 13



Tina Branom  
Purchasing/Contracts  
(719) 253-6404 office  
(719) 253-6406 fax  
tina.branom@pueblod60.org

---

315 W. 11<sup>th</sup> St., Pueblo, CO 81003

November 4, 2024

Pueblo School District 60 is pleased to extend to you this Invitation to Bid on **ITB NO. 25-02 – RONCALLI STEM ACADEMY ABATEMENT & DEMOLITION.** Your bid **MUST** be received by the Pueblo School District 60 Purchasing Office no later than **2:00 P.M. ON MONDAY, DECEMBER 9, 2024.** Please pay very close attention to the attached set of "Instructions to Bidders". It is important that those instructions be followed very closely.

**MANDATORY ON-SITE INSPECTION:** Please meet at the Facilities Management Conference Room, 1902 Montezuma Rd., Pueblo, CO 81003 at **9:00 AM on Wednesday, November 13, 2024.** It is mandatory that all bidders attend this inspection, as it will clarify exact location and amount of work to be done. This inspection is mandatory to bid this project. NO BIDS will be accepted without attendance at the on-site inspection as listed above. **Local subcontractors, representing an out-of-town general contractor, will be accepted as qualified attendees on behalf of the contractor submitting a proposal.**

**QUESTIONS:** Questions must be submitted in writing via email to [tina.branom@pueblod60.org](mailto:tina.branom@pueblod60.org) no later than November 22, 2024 at 4:00 PM.

**RESPONSES:** Responses to questions will be issued in the form of an addendum on December 2, 2024 by 4:00 PM.

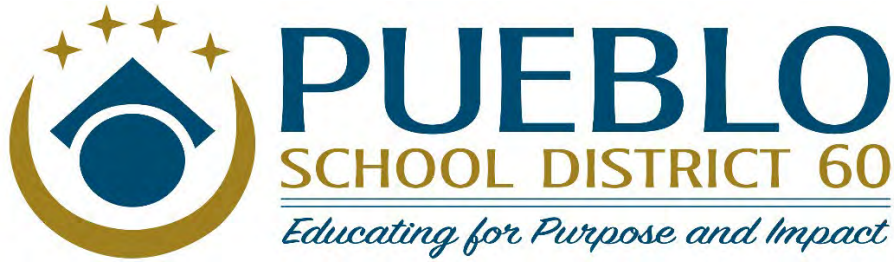
Pueblo School District 60 does not send a recap of each bid to those responding to this Invitation to Bid; however, a recap of the bid will be available for inspection after the bid has been awarded. Items on the bid are awarded to the low responsive and responsible bidder meeting specifications; however, Pueblo School District 60 has the right to waive any and all informalities and reserves the right to accept or reject any part or all parts of the bid.

It is the policy of the Board of Education to afford the opportunity for any and every business, vendor, or contractor to participate in business dealings with the school district. These business relationships are based on the premise that the Board of Education shall not discriminate against any person, regardless of race, creed, color, national origin, ancestry, age, sex, sexual orientation, religion or disability.

If you have any questions regarding the bid specifications or the bid in general, please direct those questions in writing to:

TINA BRANOM  
PURCHASING DEPARTMENT  
315 W. 11<sup>th</sup> ST.  
PUEBLO, CO 81003  
PHONE (719) 253-6404  
EMAIL: [tina.branom@pueblod60.org](mailto:tina.branom@pueblod60.org)

Thank you for participating in our bid process.



## **ITB 25-02 RONCALLI STEM ACADEMY ABATEMENT & DEMOLITION**

Pueblo School District 60 is seeking bids from qualified firms to perform abatement work and demolition services at Roncalli STEM Academy (closed building), located at 4209 Highway 78, Pueblo, Colorado 81005.

### **SCOPE OF WORK/SPECIFICATIONS**

**The full scope of work/specifications for Roncalli STEM Academy Abatement & Demolition are in a separate Project Manual. The General Conditions of the Contract for Construction is included within the manual. Drawings for the site are also attached electronically in a separate file.**

### **GENERAL REQUIREMENTS**

1. If contractor fails to make delivery in accordance with the agreed delivery date or schedule, or otherwise fails to observe or comply with any other terms, conditions, instructions, specifications, or warranties applicable to this proposal, Pueblo School District 60 may terminate the contract award by written notice to the contractor. Reference the General Conditions of the Contract for Construction.
2. The contractor must provide a safety plan for construction in accordance with OSHA requirements.
3. The use of a crane or moving equipment will be performed during times when the school is not occupied without prior approval from the district.
4. The contractor shall at all times keep the work site free from accumulations of waste materials or rubbish caused by employees or work performed at the completion of each work day.
5. A 5% retainage will be withheld from progress payments as submitted and approved by the Owner in accordance with the approved schedule of values submitted by the successful contractor. The final 5% retainage will be paid upon completion and acceptance of the project by the Owner.

### **INSTRUCTIONS TO BIDDERS**

Bids must be submitted on forms provided and in accordance with the provisions on those forms and the following stipulations, which are hereby made a part thereof...

1. These General Terms, Conditions and Instructions apply to all offers made to Pueblo School District 60 (herein after referred to as "District" or "Owner") in response to district solicitations including, but not limited to, Invitations to Bids, Requests for Proposals and Requests for Quotes. As such, the words "Bid" and "Proposal" are used interchangeably in reference to any and all offers submitted by prospective vendors.
2. Specifications are provided to identify the product required and to establish an acceptable quality level. Bids on products of equal quality and usability will normally be considered unless otherwise stated. Brochures and/or specifications must be submitted where applicable. Samples of item or items, when required, must be furnished free of expense to the District, and if not destroyed by tests, may be returned at Bidder's expense. Failure to furnish brochures, specifications, and/or samples as requested may be sufficient cause for rejection of Bids. Materials and/or services are to be supplied as specified. The Owner shall be the sole judge in determining "equals" in regard to quality, price and performance.



3. Bidders are expected to examine the drawings, specifications, schedule of delivery and all instructions. Failure to do so will be at the Bidder's risk.
4. Any deviation from the specifications **MUST** be noted in detail and submitted in writing on the Bid form. Complete specifications must be attached for any substitutions offered, or when amplifications are desirable or necessary. In the absence of a specification deviation statement and accompanying specifications, the Bidder shall be held strictly accountable for full compliance with the specifications. Failure to submit a specification deviation statement, if applicable, shall be grounds for rejection of the item when offered for delivery. If specifications or descriptive papers are submitted with Bids, the Bidder's name must be clearly shown on each document.
5. The Invitation to Bid does not obligate the District to pay any costs incurred in the preparation or the submission of such Bids, or to purchase or contract for materials or services, including costs of any bonding.

## **PREPARATION OF BIDS**

6. Complete the Bid Form
  - a. Bidders must submit bids on the Bid Form (or photocopy of the Bid Form) provided by the Owner. The name, address, and other information required shall be typed or printed on the Bid Form in the spaces provided. The Bidder's business name must match the name on the bid guaranty.
7. Fill In All Blanks
  - a. All blank spaces on the Bid Form must be filled in by the Bidder. Bidder must submit a bid amount for all Alternatives, Additives, Deductives, unit prices, and other prices indicated on the bid form. When bidding on items for which there is no charge, Bidder shall write the words "No Charge", "zero", or "0.00" in the space provided on the Bid Form. If a Bidder fails to submit a bid price for any item, notes "no bid" or similar language for any item, or does not fill in all blank spaces on the Bid Form, the bid may be rejected as non-responsive.
8. Sign the Bid Form
  - a. The Bidder shall manually sign the Bid Form in ink by an authorized representative of the Bidder.  
**IT IS REQUIRED THAT YOUR BID BE SIGNED.**
9. Initial Corrections
  - a. Any correction to entries made on the Bid Form shall be initialed by the person signing the Bid Form or its representative.
10. Acknowledge Addenda
  - a. Bidders shall acknowledge receipt of all addenda by identifying the addendum number in the space provided on the Bid Form.
11. Insurance and Bonds
  - a. Bidder shall include in its bid the cost of all insurance and bond costs required by the Contract Documents to complete the base bid work and all additives and alternates.
12. Sales Tax
  - a. Governmental entities, including all political subdivisions of the State of Colorado (state agencies, school districts, cities and counties), are automatically tax exempt by the State of Colorado.
  - b. This exemption does not apply to locally-collected sales tax levied by home rule cities. Home rule jurisdictions make their own tax regulations, and they must be contacted directly for information. The City of Pueblo is a home rule jurisdiction.
  - c. Please be aware of the City's sales and use tax rules that you may want to take into account when calculating your bid price as a contractor performing work of the District.
  - d. The City considers the CONTRACTOR THE END USER OF THE MATERIALS AND/OR EQUIPMENT USED, STORED OR CONSUMED ON THE PROJECT. Your base bid to the district should reflect any cost associated by you as the contractor that you may need to charge to recoup the costs associated with the work you are performing. Our Exemption does not carry over to you as the end user. You should provide a base bid to include all of your costs, to include your sales/and or use tax liabilities. If not included in your base bid, YOU will still be HELD liable to the City for any sales and/or use tax liabilities.

- e. IN ADDITION, PER CITY ORDINANCE, LICENSING IS MANDATED FOR ANY BUSINESS WHO IS WORKING IN THE CITY. PLEASE OBTAIN APPROPRIATE LICENSING. CALL THE CITY OF PUEBLO – SALES TAX DIVISION AT 719.553.2659 FOR COMPLETE INFORMATION REGARDING TAX AND LICENSING

### **SPECIFIED PRODUCTS**

#### **13. Substitution Process Before Deadline**

- a. Requests for approval of equals or substitutions must be made in writing and received by the Owner at least 5 days prior to the bid submission deadline. Said request must include complete descriptions, technical data, and performance records. Any approval of the proposed equal or substitution will be made by addendum issued to all Bidders.

### **BID GUARANTY/PERFORMANCE & PAYMENT BONDS**

#### **14. Form and Amount**

- a. Bidder shall submit with its bid either a surety company bid bond, a cashier's or certified check payable to the order of Pueblo School District 60, in an amount not less than five percent (5%) of the total amount of the Bid that could be awarded including sales tax and any Additives and Alternates. Bids not accompanied by an appropriate bid guaranty may be rejected as non-responsive.

#### **15. Bid Validity Period**

- a. The award of a contract, if it be awarded, shall be made within sixty (60) calendar days after the bid submission deadline. No Bidder may withdraw its bid after the bid submission deadline, unless the award of the contract is delayed for a period exceeding 60 days from the bid submission deadline. The Owner reserves the right, for a period of 60 calendar days following the bid submittal deadline, to initiate or rescind acceptance of any Alternate or Additive Bid in the amounts bid on the Bid Form.

#### **16. Holding Bid Guaranties**

- a. Owner reserves the right to hold the bid guaranties of all Bidders until the successful Bidder has entered into a contract with the Owner, or for a period of 60 days, whichever is the shorter time.

#### **17. Forfeiture of Bid Guaranty**

- a. If the successful Bidder fails to enter into a contract with the Owner and provide satisfactory performance and payment bonds and evidence of insurance within the days specified herein, the bid guaranty shall be forfeited to the Owner.

#### **18. State Statute Requiring Performance and Payment Bond**

- a. In accordance with C.R.S. § 38-26-105, if the final contract value exceeds \$50,000.00, a performance and payment bond will be required of the successful bidder in the full amount of the Contract, covering both the faithful performance of the Contract and the payment of all obligations for labor and materials arising hereunder. Such performance and payment bond shall be on such forms as the District may prescribe and with such sureties as the District may approve. Upon receipt of such documents and necessary approval, "Right To Proceed" will be issued.

#### **19. Colorado Labor**

- a. If the final contract value exceeds \$150,000.00, in accordance with Colorado Revised Statutes § 8-17-101 and 8-17-102, Offeror shall give preference to Colorado labor to perform at least eighty percent (80%) of the services, unless the District waives the eighty percent (80%) requirement, in its sole discretion, because it has determined that there is reasonable evidence to demonstrate insufficient Colorado labor to perform the services and if compliance with this statutory requirement would create an undue burden that would substantially prevent the services from proceeding to completion. The term "Colorado labor" means any person who is a resident of the State of Colorado at the time of the performance of the services, without discrimination as to race, color, creed, sex, sexual orientation, marital status, national origin, ancestry, age, disability, religion or other legally protected class.

## BID SUBMISSION PROCESS

### 20. Bid Submissions

- a. **Late Bids will not be accepted or considered.** Delivery of the bid is the responsibility of the bidder. **Bid must be in the Office of the Purchasing Manager, 315 W. 11<sup>th</sup> St., Pueblo, CO 81003 by 2:00 P.M. of closing date.** Pueblo School District 60 reserves the right to accept or reject any and all bids.

## BID EVALUATION PROCESS

### 21. Tied Bids

- a. After bids have been opened, if two or more of the lowest responsive bids have Total Bid amounts that are exactly equal, then the following drawing process will be used to break the tied bids and determine the successful Bidder. Two or more slips of paper will be marked as follows: one marked "Winner" and the other(s) marked "Unsuccessful". The slips will be folded to make the marking unseen. The slips will be placed inside a box. One authorized representative of each Bidder shall draw a slip from the box. Bidders shall draw in alphabetic order by the name of the firm. Only those Bidders who submitted a Total Bid amount that is exactly equal to the lowest responsive Bid are eligible to draw.

### 22. Waiving Irregularities

- a. Owner reserves the right to reject any or all bids, and to waive as an informality any immaterial irregularities in the bids received.

### 23. Correcting Bid Prices

- a. After bid opening, bids will be checked for correctness of bid item price extensions and the total bid price. A discrepancy between a bid item price and the extended amount of any bid item shall be resolved by accepting the bid item price as correct.

### 24. Award of Additives, Alternates, Deductives

- a. The low bid shall be determined by the sum of the Base Bid, plus any combination of Additives, Alternates, and/or Deductives may be selected in any order that the Owner chooses. The numbering of the Additives, Alternates and Deductives on the Bid Form bears no relationship to the order in which they may be selected by the Owner. The summation of extensions, corrected where necessary, and including applicable Additives, Alternatives, Deductives, and sales taxes, will be used to fix the awarded contract price and the amount of the payment and performance bonds.

## CLAIM OF ERROR

### 25. Deadline and Process

- a. A Bidder who wishes to claim error after the bids have been opened shall submit a signed statement, accompanied by the original work sheets used in the preparation of the bid, requesting relief from the responsibilities of award. The statement shall describe the specific error(s) and certify that the work sheets are the originals used in the preparation of the Bid. The statement and original work sheets shall be submitted in person or by courier to: Pueblo School District 60 Purchasing Office, 315 W. 11<sup>th</sup> St., Pueblo, CO 81003.

### 26. Review by Owner

- a. The Owner will review the certified work sheets to determine the validity of the claimed error. If the Owner concurs in the claim of the error, the Bidder will be relieved of responsibility, the bid will be withdrawn from the bid pool, and the bid guaranty of the Bidder will be returned. Thereafter, at the discretion of the Owner, all bids may be rejected or award made to the next lowest responsible Bidder.

## CONTRACT AWARD AND EXECUTION

### 27. Contract Execution

- a. Within ten (10) calendar days after the notice of award date, Bidder shall submit two signed originals of the Contract; certificate of insurance and endorsements as required in the Contract

Documents; and separate Payment and Performance Bonds, each for 100% of the Contract Award Amount.

28. Failure to Execute Contract

- a. If the successful Bidder, after award of the Contract, fails to execute the Contract or provide insurance documentation and bonds as required within the time specified, Owner may revoke award of the Contract and the bid guaranty may be retained by Owner.

## DEFINITION AND SECTION TITLES

29. Bid Documents

- a. The Bid Documents include all of the documents issued by the Owner as part of soliciting bids for the project, including but not limited to the following: Project Manual, Drawings, Advertisement for Bids, Instructions to Bidders, Bid Form, General Conditions, Modifications to General Conditions, Specifications and Drawings.

30. Captions and Headings

- a. The titles of sections in these Instructions to Bidders are for convenience only and do not define or limit the contents.

## GENERAL CONDITIONS

1. The Bidder shall indicate a separate cost for each building site indicated on the bid form. Any measurements given are approximate values. Payment will be made based on the actual measurements after installation. **Measurements shown on the drawings are estimate values for examining the order of magnitude only. The bidder will be responsible for taking actual measurements and will not receive any additional compensation due to error in measurements.** Therefore, the bidder must provide a unit cost per square foot to add or deduct to the bid amount to adjust for any discrepancy between approximated and measured values.
2. All work must meet specifications as established by the Owner and the approved roofing manufacturers.
3. Contractor must be properly licensed by the City of Pueblo and pay for any necessary permits or engineering cost.
4. SITE EXAMINATION AND ON-SITE INSPECTION: Licensed contractors shall inform and satisfy themselves by personal examination of the work site, of the conditions under which the work is to be performed, obstacles which may be encountered and by such other means they may prefer as to the correctness of any service requested in the proposal. After submission of their proposal, bidders shall not dispute or complain of such in estimate nor assert that there was any misunderstanding in regard to the nature or amount of work to be done.
5. Upon completion of the project, the successful bidder shall remove all waste and excess materials, all tools and equipment and carefully clean entire area and leave the site in a clean and orderly condition acceptable to the owner.
6. Damage to existing structures, equipment or property due to work being done under this contract, must be repaired by the contractor. Pre-existing conditions must be identified by the contractor at the site inspection prior to beginning of project. Conditions not identified become the responsibility of the contractor.
7. Water and electricity for carrying out the work shall be provided free of charge by the Owner from existing available sources. **Do not waste.** Existing toilets shall not be available for use by workmen. Contractor to provide sanitary facilities for his workmen.
8. Contractor's Liability Insurance

Types of Coverage and Minimum Limits:

- a. Worker's Compensation and Employer's Liability: Workers' Compensation Insurance covering injury to or occupational disease or death of all employees of the Contractor engaged in the Work in accordance with the statutory requirements of the State of Colorado including Employer's Liability Insurance, with a limit of liability under the Employer's Liability portion of at least One Million Dollars (\$1,000,000) per accident, Five Hundred Thousand Dollars (\$500,000) disease policy limit and One Hundred Thousand Dollars (\$100,000) disease each employee.

- b. Comprehensive General Liability: Bodily injury and property damage liability One Million Dollars (\$1,000,000) each occurrence, Two Million Dollars (\$2,000,000) aggregate. Coverage shall include completed operations, broad form property damage and personal injury and advertising liability coverages.
- c. Automobile Liability: One Million Dollars (\$1,000,000) combined single limit including hired and non-owned auto liability.
- d. Umbrella or Excess Liability: Two Million Dollars (\$2,000,000) over primary insurance.

Contractor must carry all insurances in the amounts above appropriate to this work. Insurance certification shall be placed on file in the Office of Director of Facilities Management before work is begun.

9. Schedule

- a. All work must be completed on or before December 31, 2025.

# BID FOR LUMP SUM CONTRACT

Date: \_\_\_\_\_

Proposal of: \_\_\_\_\_ (hereinafter called "Bidder")

To the: \_\_\_\_\_ (hereinafter called "Owner")

The Bidder, in compliance with your invitation for bids for construction of:

Pueblo School District 60 - Roncalli Academy Abatement & Demolition – ITB No. 25-02

Having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to set forth herein, and at the prices stated below. The prices are to cover all expenses incurred in performing the work required under the contract documents, of which this proposal is a part.

ADDENDA: Bidder acknowledges receipt of the following addenda:

\_\_\_\_\_

BID SECURITY: The bid security attached in the sum of:

\_\_\_\_\_ (\$\_\_\_\_\_)

Is to become the property of the Owner in the event the contract and bond are not executed within the time set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

BASE PROPOSAL: The Bidder agrees to perform all of the work described in the specifications and shown on the plans for the sum of:

(\$\_\_\_\_\_) \_\_\_\_\_

(Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

COMPLETION DATE: The Bidder hereby agrees to commence work under this contract on or before a date to be specified in written Notice to Proceed of the Owner and to fully complete the project within \_\_\_\_\_ consecutive calendar days thereafter.

## UNIT PRICES:

(All amounts below shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

Unit Price No. 1: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 2: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 3: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 4: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 5: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 6: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 7: (\$\_\_\_\_\_) \_\_\_\_\_

Unit Price No. 8: (\$\_\_\_\_\_) \_\_\_\_\_

## BID FOR LUMP SUM CONTRACT

Unit Price No. 9: (\$ \_\_\_\_\_)

\_\_\_\_\_

Unit Price No. 10: (\$ \_\_\_\_\_)

\_\_\_\_\_

Unit Price No. 11: (\$ \_\_\_\_\_)

\_\_\_\_\_

Unit Price No. 12: (\$ \_\_\_\_\_)

\_\_\_\_\_

Unit Price No. 13: (\$ \_\_\_\_\_)

\_\_\_\_\_

Unit Price No. 14: (\$ \_\_\_\_\_)

\_\_\_\_\_

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 30 calendar days after the scheduled closing time for receiving bids.

Upon receipt of written Notice of Acceptance of this bid, Bidder will execute the formal contract attached within 10 days and deliver a Surety Bond or bonds as required by the General Conditions.

Respectfully submitted,

\_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_

(Business address)

(SEAL – If bid is by Corporation

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Phased construction.
4. Contractor's use of site and premises.
5. Work restrictions.
6. Specification and Drawing conventions.
7. Miscellaneous provisions.

- B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 DEFINITIONS

- A. Work Package: A group of specifications, drawings, and schedules prepared by the design team to describe a portion of the Project Work for pricing, permitting, and construction.

1.4 PROJECT INFORMATION

- A. Project Identification: SCHOOL DISTRICT 60 ITB -24 Roncalli ABATEMENT AND DEMOLITION

1. Project Location: 4202 W state Highway 78, Pueblo, Colorado 81005.

- B. Owner: PUEBLO SCHOOL DISTRICT 60 - PUEBLO, Colorado, 81003.

1. Owner's Representative: Chris Coulter, Executive Director of Facilities.

- C. Architect: HGF Architects Inc.

1. Architect's Representative: Amy Hurtig-Smith, Project Architect



1.5 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:
  - 1. Roncalli Abatement, building demolition in its entirety, site grading to fill foundation and basement void, native grass seeding of site once building and associated site work is removed, re-servicing existing community recreation with electrical service, rewiring site lightning, and other Work indicated in the Contract Documents.

1.6 PHASED CONSTRUCTION

- A. Construct the Work in phases, with each phase substantially complete as indicated on Drawings .
  - 1. Phase abatement period : Abate existing building to prepare for demolition .
    - a. Commencement of Construction:
      - 1) Notice to Proceed: Work of this phase shall commence within after the Notice to Proceed.
      - 2) Start Date: Work of this phase shall commence by after bid date and contact is agreed upon with Pueblo city schools district 60 .
    - b. Substantial Completion:
      - 1) Within after commencement of construction of this phase contractor to provide number of days required for this phase.
  - 2. Phase building demolition and restoring of site grading and surfacing : Perform the remaining Work. The remaining Work shall be substantially complete at time of Substantial Completion of the Work. Provide number of days required to complete phase 2 and therefore total completion of project.
- B. Before commencing Work of each phase, submit an updated copy of Contractor's construction schedule, showing the sequence, commencement and completion dates , and move-out and -in dates of Owner's personnel for all phases of the Work.

1.7 WORK UNDER OWNER'S SEPARATE CONTRACTS

- A. Work with Separate Contractors: Cooperate fully with Owner's separate contractors, so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under Owner's separate contracts.

1.8 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Unrestricted Use of Site: Each Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- B. Restricted Use of Site: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.

- C. Limits on Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
  - 1. Limits on Use of Site: Confine construction operations to as noted on drawings. .
  - 2. Driveways, Walkways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.
    - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
    - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- D. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

#### 1.9 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
  - 1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work to between 7:00 a.m. to 6:00 p.m., Monday through Friday, unless otherwise indicated. Work hours may be modified to meet Project requirements if approved by Owner and authorities having jurisdiction.
  - 1. Hours for Core Drilling : between 8:00am and 6:00pm
- C. On-Site Work Day Restrictions: Do not perform work resulting in utility shutdowns or resulting in noisy activity on-site during work black-out days indicated in Document 003113 "Preliminary Schedules."
- D. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging for temporary utility services according to requirements indicated:
  - 1. Notify Architect Owner not less than two days in advance of proposed utility interruptions.
  - 2. Obtain Architect's Owner's written permission before proceeding with utility interruptions.
- E. Noise, Vibration, Dust, and Odors: Coordinate operations that may result in high levels of noise and vibration, dust, odors, or other disruption to Owner occupancy with Owner.
  - 1. Notify Architect Owner not less than two days in advance of proposed disruptive operations.
  - 2. Obtain Architect's Owner's written permission before proceeding with disruptive operations.
- F. Smoking and Controlled Substance Restrictions: Use of tobacco products , alcoholic beverages, and other controlled substances within the existing building on Project site is not permitted.

- G. Employee Identification: Provide Owner will provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.
- H. Employee Screening: Comply with Owner's requirements for drug and background screening of Contractor personnel working on Project site.
  - 1. Maintain list of approved screened personnel with Owner's representative.

#### 1.10 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
  - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
  - 2. Text Color: Text used in the Specifications, including units of measure, manufacturer and product names, and other text may appear in multiple colors or underlined as part of a hyperlink; no emphasis is implied by text with these characteristics.
  - 3. Hypertext: Text used in the Specifications may contain hyperlinks. Hyperlinks may allow for access to linked information that is not residing in the Specifications. Unless otherwise indicated, linked information is not part of the Contract Documents.
  - 4. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 00 Contracting Requirements: General provisions of the Contract, including General and Supplementary Conditions, apply to all Sections of the Specifications.
- C. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- D. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
  - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
  - 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings and published as part of the U.S. National CAD Standard.
  - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

DIVISION 1: GENERAL REQUIREMENTS  
SECTION 01 10 00- SUMMARY

PROJECT: RONCALLI DEMOLITION

1.11 MISCELLANEOUS PROVISIONS

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

DIVISION 1 GENERAL REQUIREMENTS  
SECTION 01 22 00 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 **SUMMARY**

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
  - 1. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
  - 2. Section 01 40 00 "Quality Requirements" for field testing by an independent testing agency.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the Part 3 "Schedule of Unit Prices" Article contain requirements for materials described under each unit price.

DIVISION 1 GENERAL REQUIREMENTS  
SECTION 01 22 00 - UNIT PRICES

PART 2 - PRODUCTS (Not Used)

PART 3 -EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 1 - Thermal System Insulation unit: square foot:
  - B. Unit Price No. 2 - Pipe Insulation unit: linear foot cost Unit
  - C. Price No. 3 - Elbow/Tee unit :Each
  - D. Unit Price No.4 – Transit piping including fittings: Square foot
  - E. Unit Price No. 5 - Fiberglass and Plastic Fitting Removal unit: liner foot
  - F. Unit Price No. 6 - Spray-on acoustic ceiling texture unit Square foot Unit
  - G. Price No. 7 - Ceiling Tiles (suspended) unit: square foot
  - H. Unit Price No. 8 - Ceiling Tile Mastic unit: square foot
  - I. Unit Price No. 9 - Wall and Ceiling Systems (Plaster) unit : Square foot
  - J. Unit Price No. 10 - Wall Systems (textured drywall) unit: square foot Unit
  - K. Price No. 11 - Wall panel mastic unit: square foot
  - L. Unit Price No. 12 - Floor tile and mastic unit: square foot Unit
  - M. Price No. 13 - Fire doors unit : each
  - N. Unit Price No. 14 - Chalkboards unit: each
1. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."

END OF SECTION

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
  - 1. Section 012500 "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.
  - 2. Section 013100 "Project Management and Coordination" for requirements for forms for contract modifications provided as part of web-based Project management software.

1.3 MINOR CHANGES IN THE WORK

- A. Architect will issue through Construction Manager supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710 .

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
  - 1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
  - 2. Within time specified in Proposal Request or 20 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
    - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
    - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
    - c. Include costs of labor and supervision directly attributable to the change.
    - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish

## SECTION 01 26 00- CONTRACT MODIFICATION PROCEDURES

times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- e. Quotation Form: Use forms acceptable to Architect .

- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect .

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
6. Comply with requirements in Section 012500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
7. Proposal Request Form: Use form acceptable to Architect .

## 1.5 ADMINISTRATIVE CHANGE ORDERS

- A. Allowance Adjustment: See Section 012100 "Allowances" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.
- B. Unit-Price Adjustment: See Section 012200 "Unit Prices" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit-price work.

## 1.6 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Change Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701 form provided as part of web-based Project management software.

## 1.7 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714 form provided as part of web-based Project management software. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.



## SECTION 01 26 00- CONTRACT MODIFICATION PROCEDURES

1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
  1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

## 1.8 WORK CHANGE DIRECTIVE

- A. Work Change Directive: Architect may issue a Work Change Directive on EJCDC Document C-940 form included in Project Manual form provided as part of web-based Project management software. Work Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
  1. Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.
  1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
  - 1. Document 004373 "Proposed Schedule of Values Form" for requirements for furnishing proposed schedule of values with bid.
  - 2. Section 012200 "Unit Prices" for administrative requirements governing the use of unit prices.
  - 3. Section 012600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
  - 4. Section 013200 "Construction Progress Documentation" for administrative requirements governing the preparation and submittal of the Contractor's construction schedule.

1.3 DEFINITIONS

- A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule. Cost-loaded Critical Path Method Schedule may serve to satisfy requirements for the schedule of values.
  - 1. Coordinate line items in the schedule of values with items required to be indicated as separate activities in Contractor's construction schedule.
  - 2. Submit the schedule of values to Architect through Construction Manager at earliest possible date, but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
  - 3. Subschedules for Phased Work: Where the Work is separated into phases requiring separately phased payments, provide subschedules showing values coordinated with each phase of payment.

4. Subschedules for Separate Elements of Work: Where the Contractor's construction schedule defines separate elements of the Work, provide subschedules showing values coordinated with each element.
  5. Subschedules for Separate Design Contracts: Where the Owner has retained design professionals under separate contracts who will each provide certification of payment requests, provide subschedules showing values coordinated with the scope of each design services contract, as described in Section 011000 "Summary."
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
1. Identification: Include the following Project identification on the schedule of values:
    - a. Project name and location.
    - b. Owner's name.
    - c. Owner's Project number.
    - d. Name of Architect.
    - e. Architect's Project number.
    - f. Contractor's name and address.
    - g. Date of submittal.
  2. Arrange schedule of values consistent with format of AIA Document G703 EJCDC Document C-620 .
  3. Arrange the schedule of values in tabular form, with separate columns to indicate the following for each item listed:
    - a. Related Specification Section or division.
    - b. Description of the Work.
    - c. Name of subcontractor.
    - d. Name of manufacturer or fabricator.
    - e. Name of supplier.
    - f. Change Orders (numbers) that affect value.
    - g. Dollar value of the following, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent. Round dollar amounts to whole dollars, with total equal to Contract Sum.
      - 1) Labor.
      - 2) Materials.
      - 3) Equipment.
  4. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.
  5. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
    - a. Differentiate between items stored on-site and items stored off-site.
  6. Purchase Contracts: Provide a separate line item in the schedule of values for each Purchase contract. Show line-item value of Purchase contract. Indicate Owner payments or deposits, if any, and balance to be paid by Contractor.
  7. Overhead Costs, Separate Line Items: Show cost of temporary facilities and other major cost items that are not direct cost of actual work-in-place as separate line items.
  8. Temporary Facilities: Show cost of temporary facilities and other major cost items that are not direct cost of actual work-in-place as separate line items.

9. Closeout Costs. Include separate line items under Contractor and principal subcontracts for Project closeout requirements in an amount totaling five percent of the Contract Sum and subcontract amount.
10. Schedule of Values Revisions: Revise the schedule of values when Change Orders or Construction Change Directives result in a change in the Contract Sum. Include at least one separate line item for each Change Order and Construction Change Directive.

#### 1.5 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments, as certified by Architect and Construction Manager and paid for by Owner.
- B. Payment Application Times: The date for each progress payment is indicated in the Owner/Contractor Agreement. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.
  1. Other Application for Payment forms proposed by the Contractor may be acceptable to Construction Manager and Owner. Submit forms for approval with initial submittal of schedule of values.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
  1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
  2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
  3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
  4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.
- E. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
  1. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment for stored materials.
  2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
  3. Provide summary documentation for stored materials indicating the following:
    - a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.

- b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
  - c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.
- F. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect Construction Manager by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
  - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- G. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment .
  - 1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
  - 2. When an application shows completion of an item, submit conditional final or full waivers.
  - 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
  - 4. Submit final Application for Payment with or preceded by conditional final waivers from every entity involved with performance of the Work covered by the application who is lawfully entitled to a lien.
  - 5. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
- H. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
  - 1. List of subcontractors.
  - 2. Schedule of values.
  - 3. Contractor's construction schedule (preliminary if not final).
  - 4. Combined Contractor's construction schedule (preliminary if not final) incorporating Work of multiple contracts, with indication of acceptance of schedule by each Contractor.
  - 5. Products list (preliminary if not final).
  - 6. Sustainable design action plans, including preliminary project materials cost data.
  - 7. Schedule of unit prices.
  - 8. Submittal schedule (preliminary if not final).
  - 9. List of Contractor's staff assignments.
  - 10. List of Contractor's principal consultants.
  - 11. Copies of building permits.
  - 12. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
  - 13. Initial progress report.
  - 14. Report of preconstruction conference.
  - 15. Certificates of insurance and insurance policies.
  - 16. Performance and payment bonds.
  - 17. Data needed to acquire Owner's insurance.

- I. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
  - 1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
    - a. Complete administrative actions, submittals, and Work preceding this application, as described in Section 017700 "Closeout Procedures."
  - 2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- J. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
  - 1. Evidence of completion of Project closeout requirements.
  - 2. Certification of completion of final punch list items.
  - 3. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
  - 4. Updated final statement, accounting for final changes to the Contract Sum.
  - 5. AIA Document G706.
  - 6. AIA Document G706A.
  - 7. AIA Document G707.
  - 8. Evidence that claims have been settled.
  - 9. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
  - 10. Final liquidated damages settlement statement.
  - 11. Proof that taxes, fees, and similar obligations are paid.
  - 12. Waivers and releases.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012900

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project, including, but not limited to, the following:
  - 1. General coordination procedures.
  - 2. Coordination drawings.
  - 3. RFIs.
  - 4. Digital project management procedures.
  - 5. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.
- C. Related Requirements:
  - 1. Section 011200 "Multiple Contract Summary" for a description of the division of work among separate contracts and responsibility for coordination activities not in this Section.
  - 2. Section 013200 "Construction Progress Documentation" for preparing and submitting Contractor's construction schedule.
  - 3. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
  - 4. Section 017700 "Closeout Procedures" for coordinating closeout of the Contract.
  - 5. Section 019113 "General Commissioning Requirements" for coordinating the Work with Owner's Commissioning Authority.

1.3 DEFINITIONS

- A. BIM: Building Information Modeling.
- B. RFI: Request for Information. Request from Owner, Construction Manager, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.4      INFORMATIONAL SUBMITTALS

- A.    Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
  - 1.    Name, address, telephone number, and email address of entity performing subcontract or supplying products.
  - 2.    Number and title of related Specification Section(s) covered by subcontract.
  - 3.    Drawing number and detail references, as appropriate, covered by subcontract.
- B.    Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses, cellular telephone numbers, and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
  - 1.    Post copies of list in Project meeting room, in temporary field office, and in prominent location in each built facility. Keep list current at all times.

1.5      GENERAL COORDINATION PROCEDURES

- A.    Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations included in different Sections that depend on each other for proper installation, connection, and operation.
  - 1.    Schedule construction operations in sequence required to obtain the best results, where installation of one part of the Work depends on installation of other components, before or after its own installation.
  - 2.    Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
  - 3.    Make adequate provisions to accommodate items scheduled for later installation.
- B.    Coordination of Multiple Contracts: Each contractor shall cooperate with Project coordinator, who shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its own operations with operations included in different Sections that depend on each other for proper installation, connection, and operation.
  - 1.    Schedule construction operations in sequence required to obtain the best results, where installation of one part of the Work depends on installation of other components, before or after its own installation.
  - 2.    Coordinate installation of different components with other contractors to ensure maximum performance and accessibility for required maintenance, service, and repair.
  - 3.    Make adequate provisions to accommodate items scheduled for later installation.
- C.    Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.



DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 31 00- PROJECT MANAGEMENT AND COORDINATION

1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- D. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and scheduled activities of other contractors and direction of Project coordinator to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
1. Preparation of Contractor's construction schedule.
  2. Preparation of the schedule of values.
  3. Installation and removal of temporary facilities and controls.
  4. Delivery and processing of submittals.
  5. Progress meetings.
  6. Preinstallation conferences.
  7. Project closeout activities.
  8. Startup and adjustment of systems.

1.6 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely indicated on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
    - a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
    - b. Coordinate the addition of trade-specific information to coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
    - c. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
    - d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
    - e. Show location and size of access doors required for access to concealed dampers, valves, and other controls.
    - f. Indicate required installation sequences.
    - g. Indicate dimensions shown on Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternative sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- B. Coordination Drawing Organization: Organize coordination drawings as follows:

1. Electrical Work: Show the following:
    - a. Runs of vertical and horizontal conduit **1-1/4 inches** in diameter and larger.
    - b. Light fixture, exit light, emergency battery pack, smoke detector, and other fire-alarm locations.
    - c. Panel board, switchboard, switchgear, transformer, busway, generator, and motor-control center locations.
    - d. Location of pull boxes and junction boxes, dimensioned from column center lines.
  2. Review: Architect will review coordination drawings to confirm that, in general, the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make suitable modifications and resubmit.
  3. Coordination Drawing Prints: Prepare coordination drawing prints according to requirements in Section 013300 "Submittal Procedures."
- C. Coordination Drawing Process: Prepare coordination drawings in the following manner:
1. Schedule submittal and review of Fire Sprinkler, Plumbing, HVAC, and Electrical Shop Drawings to make required changes prior to preparation of coordination drawings.
  2. Commence routing of coordination drawing files with HVAC Installer, who will provide drawing plan files denoting approved ductwork. HVAC Installer will locate ductwork and piping on a single layer, using orange color. Forward drawings to Plumbing Installer.
  3. Plumbing Installer will locate plumbing and equipment on a single layer, using blue color.
  4. Fire Sprinkler Installer will locate piping and equipment, using red color. Fire Sprinkler Installer shall forward drawing files to Electrical Installer.
  5. Electrical Installer will indicate service and feeder conduit runs and equipment in green color. Electrical Installer shall forward drawing files to Communications and Electronic Safety and Security Installer.
  6. Communications and Electronic Safety and Security Installer will indicate cable trays and cabling runs and equipment in purple color. Communications and Electronic Safety and Security Installer shall forward completed drawing files to Contractor.
  7. Contractor shall perform the final coordination review. As each coordination drawing is completed, Contractor will meet with Architect to review and resolve conflicts on the coordination drawings.
- D. Coordination Digital Data Files: Prepare coordination digital data files according to the following requirements:
1. File Preparation Format:
    - a. Same digital data software program, version, and operating system as original Drawings.
    - b. Version , operating in Microsoft Windows operating system.
  2. File Submittal Format: Submit or post coordination drawing files using PDF format.
  3. Architect will furnish Contractor one set of digital data files of Drawings for use in preparing coordination digital data files.
    - a. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Drawings.
    - b. Digital Data Software Program: Drawings are available in .
    - c. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.

1.7      REQUEST FOR INFORMATION (RFI)

- A.    General: Immediately on discovery of the need for additional information, clarification, or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
  - 1.    Architect will return without response those RFIs submitted to Architect by other entities controlled by Contractor.
  - 2.    Coordinate and submit RFIs in a prompt manner to avoid delays in Contractor's work or work of subcontractors.
- B.    Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
  - 1.    Project name.
  - 2.    Owner name.
  - 3.    Owner's Project number.
  - 4.    Name of Architect and Construction Manager.
  - 5.    Architect's Project number.
  - 6.    Date.
  - 7.    Name of Contractor.
  - 8.    RFI number, numbered sequentially.
  - 9.    RFI subject.
  - 10.   Specification Section number and title and related paragraphs, as appropriate.
  - 11.   Drawing number and detail references, as appropriate.
  - 12.   Field dimensions and conditions, as appropriate.
  - 13.   Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
  - 14.   Contractor's signature.
  - 15.   Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
    - a.    Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
- C.    RFI Forms: AIA Document G716 Form bound in Project Manual Software-generated form with substantially the same content as indicated above, acceptable to Architect.
  - 1.    Attachments shall be electronic files in PDF format.
- D.    Architect's and Construction Manager's Action: Architect and Construction Manager will review each RFI, determine action required, and respond. Allow three days for Architect's response for each RFI. RFIs received by Architect or Construction Manager after 1:00 p.m. will be considered as received the following working day.
  - 1.    The following Contractor-generated RFIs will be returned without action:
    - a.    Requests for approval of submittals.
    - b.    Requests for approval of substitutions.
    - c.    Requests for approval of Contractor's means and methods.
    - d.    Requests for coordination information already indicated in the Contract Documents.
    - e.    Requests for adjustments in the Contract Time or the Contract Sum.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 31 00- PROJECT MANAGEMENT AND COORDINATION

- f. Requests for interpretation of Architect's actions on submittals.
    - g. Incomplete RFIs or inaccurately prepared RFIs.
  - 2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt by Architect or Construction Manager of additional information.
  - 3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
    - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect and Construction Manager in writing within 5 days of receipt of the RFI response.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Use software log that is part of web-based Project management software. Software log with not less than the following:
  - 1. Project name.
  - 2. Name and address of Contractor.
  - 3. Name and address of Architect and Construction Manager.
  - 4. RFI number, including RFIs that were returned without action or withdrawn.
  - 5. RFI description.
  - 6. Date the RFI was submitted.
  - 7. Date Architect's and Construction Manager's response was received.
  - 8. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
  - 9. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.
- F. On receipt of Architect's and Construction Manager's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect and Construction Manager within three days if Contractor disagrees with response.

1.8 DIGITAL PROJECT MANAGEMENT PROCEDURES

- A. Use of Architect's Digital Data Files: Digital data files of Architect's CAD drawings will be provided by Architect for Contractor's use during construction.
  - 1. Digital data files may be used by Contractor in preparing coordination drawings, Shop Drawings, and Project Record Drawings.
  - 2. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Contract Drawings.
  - 3. Digital Drawing Software Program: Contract Drawings are available in .
  - 4. Contractor shall execute a data licensing agreement in the form of AIA Document C106 Digital Data Licensing Agreement form acceptable to Owner and Architect.
    - a. Subcontractors and other parties granted access by Contractor to Architect's digital data files shall execute a data licensing agreement in the form of Agreement acceptable to Owner and Architect.
  - 5. The following digital data files will be furnished for each appropriate discipline:
    - a. Floor plans.
    - b. Reflected ceiling plans.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 31 00- PROJECT MANAGEMENT AND COORDINATION

- B. PDF Document Preparation: Where PDFs are required to be submitted to Architect, prepare as follows:
1. Assemble complete submittal package into a single indexed file, incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
  2. Name file with submittal number or other unique identifier, including revision identifier.
  3. Certifications: Where digitally submitted certificates and certifications are required, provide a digital signature with digital certificate on where indicated.

1.9 PROJECT MEETINGS

- A. General: Construction Manager will schedule and conduct meetings and conferences at Project site unless otherwise indicated.
1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times a minimum of seven days prior to meeting.
  2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
  3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner , Construction Manager, and Architect, within three days of the meeting.
- B. Preconstruction Conference: Architect will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after execution of the Agreement.
1. Attendees: Authorized representatives of Owner , Construction Manager, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
  2. Agenda: Discuss items of significance that could affect progress, including the following:
    - a. Responsibilities and personnel assignments.
    - b. Tentative construction schedule.
    - c. Phasing.
    - d. Critical work sequencing and long lead items.
    - e. Designation of key personnel and their duties.
    - f. Lines of communications.
    - g. Use of web-based Project software.
    - h. Procedures for processing field decisions and Change Orders.
    - i. Procedures for RFIs.
    - j. Procedures for testing and inspecting.
    - k. Procedures for processing Applications for Payment.
    - l. Distribution of the Contract Documents.
    - m. Submittal procedures.
    - n. Sustainable design requirements.
    - o. Preparation of Record Documents.
    - p. Use of the premises and existing building.
    - q. Work restrictions.
    - r. Working hours.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 31 00- PROJECT MANAGEMENT AND COORDINATION

- s. Owner's occupancy requirements.
  - t. Responsibility for temporary facilities and controls.
  - u. Procedures for moisture and mold control.
  - v. Procedures for disruptions and shutdowns.
  - w. Construction waste management and recycling.
  - x. Parking availability.
  - y. Office, work, and storage areas.
  - z. Equipment deliveries and priorities.
  - aa. First aid.
  - bb. Security.
  - cc. Progress cleaning.
3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.
- C. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 90 days prior to the scheduled date of Substantial Completion.
- 1. Conduct the conference to review requirements and responsibilities related to Project closeout.
  - 2. Attendees: Authorized representatives of Owner, Construction Manager, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
  - 3. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:
    - a. Preparation of Record Documents.
    - b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
    - c. Procedures for completing and archiving web-based Project software site data files.
    - d. Submittal of written warranties.
    - e. Requirements for completing sustainable design documentation.
    - f. Requirements for preparing operations and maintenance data.
    - g. Requirements for delivery of material samples, attic stock, and spare parts.
    - h. Requirements for demonstration and training.
    - i. Preparation of Contractor's punch list.
    - j. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
    - k. Submittal procedures.
    - l. Coordination of separate contracts.
    - m. Owner's partial occupancy requirements.
    - n. Installation of Owner's furniture, fixtures, and equipment.
    - o. Responsibility for removing temporary facilities and controls.
  - 4. Minutes: Entity conducting meeting will record and distribute meeting minutes.
- D. Progress Meetings: Conduct progress meetings at biweekly intervals.
- 1. Coordinate dates of meetings with preparation of payment requests.
  - 2. Attendees: In addition to representatives of Owner, Construction Manager, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be

- represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
    - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
      - 1) Review schedule for next period.
    - b. Review present and future needs of each entity present, including the following:
      - 1) Interface requirements.
      - 2) Sequence of operations.
      - 3) Resolution of BIM component conflicts.
      - 4) Status of submittals.
      - 5) Status of sustainable design documentation.
      - 6) Deliveries.
      - 7) Off-site fabrication.
      - 8) Access.
      - 9) Site use.
      - 10) Temporary facilities and controls.
      - 11) Progress cleaning.
      - 12) Quality and work standards.
      - 13) Status of correction of deficient items.
      - 14) Field observations.
      - 15) Status of RFIs.
      - 16) Status of Proposal Requests.
      - 17) Pending changes.
      - 18) Status of Change Orders.
      - 19) Pending claims and disputes.
      - 20) Documentation of information for payment requests.
  4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
    - a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting, where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.
- E. Coordination Meetings: Conduct Project coordination meetings at weekly intervals. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and preinstallation conferences.
1. Attendees: In addition to representatives of Owner , Construction Manager, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meetings shall be familiar with Project and authorized to conclude matters relating to the Work.
  2. Agenda: Review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 31 00- PROJECT MANAGEMENT AND COORDINATION

- a. Combined Contractor's Construction Schedule: Review progress since the last coordination meeting. Determine whether each contract is on time, ahead of schedule, or behind schedule, in relation to combined Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
  - b. Schedule Updating: Revise combined Contractor's construction schedule after each coordination meeting, where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with report of each meeting.
  - c. Review present and future needs of each contractor present, including the following:
    - 1) Interface requirements.
    - 2) Sequence of operations.
    - 3) Resolution of BIM component conflicts.
    - 4) Status of submittals.
    - 5) Deliveries.
    - 6) Off-site fabrication.
    - 7) Access.
    - 8) Site use.
    - 9) Temporary facilities and controls.
    - 10) Work hours.
    - 11) Hazards and risks.
    - 12) Progress cleaning.
    - 13) Quality and work standards.
    - 14) Status of RFIs.
    - 15) Proposal Requests.
    - 16) Change Orders.
    - 17) Pending changes.
3. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100



SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
  - 1. Contractor's Construction Schedule.
  - 2. Daily construction reports.
  - 3. Material location reports.
  - 4. Site condition reports.
  - 5. Unusual event reports.
- B. Related Requirements:
  - 1. Section 011200 "Multiple Contract Summary" for preparing a combined Contractor's Construction Schedule.
  - 2. Section 014000 "Quality Requirements" for schedule of tests and inspections.
  - 3. Section 012900 "Payment Procedures" for schedule of values and requirements for use of cost-loaded schedule for Applications for Payment.

1.3 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction Project. Activities included in a construction schedule consume time and resources.
  - 1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
  - 2. Predecessor Activity: An activity that precedes another activity in the network.
  - 3. Successor Activity: An activity that follows another activity in the network.
- B. Cost Loading: The allocation of the schedule of values for completing an activity as scheduled. The sum of costs for all activities must equal the total Contract Sum.
- C. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine the critical path of Project and when activities can be performed.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 32 00- CONSTRUCTION PROGRESS DOCUMENTATION

- D. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- E. Event: The starting or ending point of an activity.
- F. Float: The measure of leeway in starting and completing an activity.
  - 1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
  - 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
  - 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.
- G. Resource Loading: The allocation of manpower and equipment necessary for completing an activity as scheduled.

1.4 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
  - 1. Working electronic copy of schedule file.
  - 2. PDF file.
  - 3. Two paper copies, of sufficient size to display entire period or schedule, as required.
- B. Startup construction schedule.
  - 1. Submittal of cost-loaded startup construction schedule will not constitute approval of schedule of values for cost-loaded activities.
- C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
  - 1. Submit a working digital copy of schedule, using software indicated, and labeled to comply with requirements for submittals.
- D. Unusual Event Reports: Submit at time of unusual event.

1.5 QUALITY ASSURANCE

- A. Prescheduling Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination." Review methods and procedures related to the preliminary construction schedule and Contractor's Construction Schedule, including, but not limited to, the following:
  - 1. Review software limitations and content and format for reports.
  - 2. Verify availability of qualified personnel needed to develop and update schedule.
  - 3. Discuss constraints, including phasing work stages area separations interim milestones .
  - 4. Review delivery dates for Owner-furnished products.

5. Review schedule for work of Owner's separate contracts.
6. Review submittal requirements and procedures.
7. Review time required for review of submittals and resubmittals.
8. Review requirements for tests and inspections by independent testing and inspecting agencies.
9. Review time required for Project closeout and Owner startup procedures.
10. Review and finalize list of construction activities to be included in schedule.
11. Review procedures for updating schedule.

#### 1.6 COORDINATION

- A. Coordinate Contractor's Construction Schedule with the schedule of values, list of subcontracts, submittal schedule, progress reports, payment requests, and other required schedules and reports.
  1. Secure time commitments for performing critical elements of the Work from entities involved.
  2. Coordinate each construction activity in the network with other activities, and schedule them in proper sequence.

#### 1.7 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Computer Scheduling Software: Prepare schedules using current version of a program that has been developed specifically to manage construction schedules.
- B. Time Frame: Extend schedule from date established for the Notice to Proceed to date of Final Completion.
  1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- C. Activities: Treat each floor or separate area as a separate numbered activity for each main element of the Work. Comply with the following:
  1. Activity Duration: Define activities so no activity is longer than 20 days, unless specifically allowed by Architect.
  2. Temporary Facilities: Indicate start and completion dates for the following as applicable:
    - a. Securing of approvals and permits required for performance of the Work.
    - b. Temporary facilities.
    - c. Construction of mock-ups, prototypes and samples.
    - d. Owner interfaces and furnishing of items.
    - e. Interfaces with Separate Contracts.
    - f. Regulatory agency approvals.
    - g. Punch list.
  3. Procurement Activities: Include procurement process activities for the following long lead-time items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.

## SECTION 01 32 00- CONSTRUCTION PROGRESS DOCUMENTATION

4. Submittal Review Time: Include review and resubmittal times indicated in Section 013300 "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's Construction Schedule with submittal schedule.
  5. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's and Construction Manager's administrative procedures necessary for certification of Substantial Completion.
  6. Punch List and Final Completion: Include not more than 30 days for completion of punch list items and Final Completion.
- D. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
1. Phasing: Arrange list of activities on schedule by phase.
  2. Construction Areas: Identify each major area of construction for each major portion of the Work. Indicate where each construction activity within a major area must be sequenced or integrated with other construction activities to provide for the following:
    - a. Structural completion.
    - b. Completion of electrical installation.
    - c. Substantial Completion.
- E. Cost Correlation: Superimpose a cost correlation timeline, indicating planned and actual costs. On the line, show planned and actual dollar volume of the Work performed as of planned and actual dates used for preparation of payment requests.
1. See Section 012900 "Payment Procedures" for cost reporting and payment procedures.
- F. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:
1. Unresolved issues.
  2. Unanswered Requests for Information.
  3. Rejected or unreturned submittals.
  4. Notations on returned submittals.
  5. Pending modifications affecting the Work and the Contract Time.
- G. Contractor's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
  2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
  3. As the Work progresses, indicate Final Completion percentage for each activity.
- H. Recovery Schedule: When periodic update indicates the Work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, equipment required to achieve compliance, and date by which recovery will be accomplished.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 32 00- CONSTRUCTION PROGRESS DOCUMENTATION

- I. Distribution: Distribute copies of approved schedule to Architect , Construction Manager, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
  - 1. Post copies in Project meeting rooms and temporary field offices.
  - 2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

1.8 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
  - 1. List of subcontractors at Project site.
  - 2. List of separate contractors at Project site.
  - 3. Approximate count of personnel at Project site.
  - 4. Equipment at Project site.
  - 5. Material deliveries.
  - 6. High and low temperatures and general weather conditions, including presence of rain or snow.
  - 7. Testing and inspection.
  - 8. Accidents.
  - 9. Meetings and significant decisions.
  - 10. Unusual events.
  - 11. Stoppages, delays, shortages, and losses.
  - 12. Meter readings and similar recordings.
  - 13. Emergency procedures.
  - 14. Orders and requests of authorities having jurisdiction.
  - 15. Change Orders received and implemented.
  - 16. Construction Change Directives received and implemented.
  - 17. Services connected and disconnected.
  - 18. Equipment or system tests and startups.
  - 19. Partial completions and occupancies.
  - 20. Substantial Completions authorized.
- B. Material Location Reports: At monthly intervals, prepare and submit a comprehensive list of materials delivered to and stored at Project site. List shall be cumulative, showing materials previously reported plus items recently delivered. Include with list a statement of progress on and delivery dates for materials or items of equipment fabricated or stored away from Project site. Indicate the following categories for stored materials:
  - 1. Material stored prior to previous report and remaining in storage.
  - 2. Material stored prior to previous report and since removed from storage and installed.
  - 3. Material stored following previous report and remaining in storage.
- C. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 32 00- CONSTRUCTION PROGRESS DOCUMENTATION

- D.    Unusual Event Reports: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons participating, responses by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise Owner in advance when these events are known or predictable.
1.    Submit unusual event reports directly to Owner within one day(s) of an occurrence. Distribute copies of report to parties affected by the occurrence.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013200

SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
  - 1. Preconstruction photographs.
  - 2. Concealed Work photographs.
- B. Related Requirements:
  - 1. Section 017700 "Closeout Procedures" for submitting photographic documentation as Project Record Documents at Project closeout.
  - 2. Section 017900 "Demonstration and Training" for submitting video recordings of demonstration of equipment and training of Owner's personnel.
  - 3. Section 024116 "Structure Demolition" for photographic documentation before building demolition operations commence.
  - 4. Section 024119 "Selective Demolition" for photographic documentation before selective demolition operations commence.
  - 5. Section 311000 "Site Clearing" for photographic documentation before site clearing operations commence.

1.3 INFORMATIONAL SUBMITTALS

- A. Key Plan: Submit key plan of Project site and building with notation of vantage points marked for location and direction of each photograph . Indicate elevation or story of construction. Include same information as corresponding photographic documentation.
- B. Digital Photographs: Submit image files within three days of taking photographs.
  - 1. Submit photos on CD-ROM or thumb-drive . Include copy of key plan indicating each photograph's location and direction.
  - 2. Identification: Provide the following information with each image description in file metadata tag :
    - a. Name of Project.
    - b. Name of Contractor.
    - c. Date photograph was taken.
    - d. Description of location, vantage point, and direction.

1.4      QUALITY ASSURANCE

1.5      FORMATS AND MEDIA

- A.    Digital Photographs: Provide color images in JPG format, produced by a digital camera with minimum sensor size of 12 megapixels, and at an image resolution of not less than 3200 by 2400 pixels , and with vibration-reduction technology. Use flash in low light levels or backlit conditions.
- B.    Metadata: Record accurate date and time from camera.
- C.    File Names: Name media files with date Project area and sequential numbering suffix.

1.6      CONSTRUCTION PHOTOGRAPHS

- A.    General: Take photographs with maximum depth of field and in focus.
  - 1.    Maintain key plan with each set of construction photographs that identifies each photographic location.
- B.    Preconstruction Photographs: Before commencement of the Work, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Construction Manager.
  - 1.    Flag excavation areas construction limits before taking construction photographs.
  - 2.    Take 20 photographs to show existing conditions adjacent to property before starting the Work.
  - 3.    Take 20 photographs of existing buildings either on or adjoining property, to accurately record physical conditions at start of construction.
- C.    Concealed Work Photographs: Before proceeding with installing work that will conceal other work, take photographs sufficient in number, with annotated descriptions, to record nature and location of concealed Work, including, but not limited to, the following:
  - 1.    Underground utilities.
  - 2.    Underslab services.
  - 3.    Piping.
  - 4.    Electrical conduit.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013233



SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
  - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.
  - 2. Section 011200 "Multiple Contract Summary" for responsibilities for temporary facilities and controls for projects utilizing multiple contracts.
  - 3. Section 012100 "Allowances" for allowance for metered use of temporary utilities.

1.3 USE CHARGES

- A. Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.
- B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use with metering . Provide connections and extensions of services and metering as required for construction operations.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use with metering . Provide connections and extensions of services and metering as required for construction operations.
- D. Sewer, Water, and Electric Power Service: Use charges are specified in Section 011200 "Multiple Contract Summary."

1.4 INFORMATIONAL SUBMITTALS

- A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 50 00- TEMPORARY FACILITIES AND CONTROLS

- B. Implementation and Termination Schedule: Within 15 days of date established for commencement of the Work, submit schedule indicating implementation and termination dates of each temporary utility.
- C. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.
- D. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
- E. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Include the following:
  - 1. Locations of dust-control partitions at each phase of work.
  - 2. HVAC system isolation schematic drawing.
  - 3. Location of proposed air-filtration system discharge.
  - 4. Waste-handling procedures.
  - 5. Other dust-control measures.
- F. Noise and Vibration Control Plan: Identify construction activities that may impact the occupancy and use of existing spaces within the building or adjacent existing buildings, whether occupied by others, or occupied by the Owner. Include the following:
  - 1. Methods used to meet the goals and requirements of the Owner.
  - 2. Concrete cutting method(s) to be used.
  - 3. Location of construction devices on the site.
  - 4. Show compliance with the use and maintenance of quieted construction devices for the duration of the Project.
  - 5. Indicate activities that may disturb building occupants and that are planned to be performed during non-standard working hours as coordinated with the Owner.
  - 6. Indicate locations of sensitive equipment areas or other areas requiring special attention as identified by Owner. Indicate means for complying with Owner's requirements.

1.5      QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.

1.6      PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portable Chain-Link Fencing: Minimum ~~2-inch~~, ~~0.148-inch~~- thick, galvanized-steel, chain-link fabric fencing; minimum ~~6 feet~~ high with galvanized-steel pipe posts; minimum ~~2-3/8-inch~~- OD line posts and ~~2-7/8-inch~~- OD corner and pull posts, with ~~1-5/8-inch~~- OD top and bottom rails. Provide galvanized-steel bases for supporting posts.
- B. Dust-Control Adhesive-Surface Walk-Off Mats: Provide mats, minimum ~~36 by 60 inches~~.
- C. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

- A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, Construction Manager, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:
  - 1. Furniture required for Project-site documents, including file cabinets, plan tables, plan racks, and bookcases.
  - 2. Conference room of sufficient size to accommodate meetings of 10 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and ~~4-foot~~- square tack and marker boards.
  - 3. Drinking water and private toilet.
  - 4. Heating and cooling equipment necessary to maintain a uniform indoor temperature of ~~68 to 72 deg F~~.
  - 5. Lighting fixtures capable of maintaining average illumination of ~~20 fc~~ at desk height.

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. Air-Filtration Units: Primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

PART 3 - EXECUTION

3.1      TEMPORARY FACILITIES, GENERAL

- A.    Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
  - 1.    Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.2      INSTALLATION, GENERAL

- A.    Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
  - 1.    Locate facilities to limit site disturbance as specified in Section 011000 "Summary."
- B.    Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.
- C.    Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
  - 1.    Prior to commencing work, isolate the HVAC system in area where work is to be performed according to coordination drawings.
    - a.    Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
    - b.    Maintain negative air pressure within work area, using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
  - 2.    Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
  - 3.    Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.

3.3      TEMPORARY UTILITY INSTALLATION

- A.    General: Install temporary service or connect to existing service.
  - 1.    Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B.    Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
  - 1.    Connect temporary sewers to municipal system as directed by authorities having jurisdiction.

## SECTION 01 50 00- TEMPORARY FACILITIES AND CONTROLS

- C. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- D. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
  - 1. Use of Permanent Toilets: Use of Owner's existing or new toilet facilities is not permitted.
- E. Temporary Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
  - 1. Provide temporary dehumidification systems when required to reduce ambient and substrate moisture levels to level required to allow installation or application of finishes and their proper curing or drying.
- F. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.
- G. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
  - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
- H. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install WiFi cell phone access equipment land-based telephone line(s) for each field office.
  - 1. At each telephone, post a list of important telephone numbers.
    - a. Police and fire departments.
    - b. Ambulance service.
    - c. Contractor's home office.
    - d. Contractor's emergency after-hours telephone number.
    - e. Architect's office.
    - f. Construction Manager's home office.
    - g. Engineers' offices.
    - h. Principal subcontractors' field and home offices.
- I. Electronic Communication Service: Provide secure WiFi wireless connection to internet with provisions for access by Architect and Owner.
- J. Project Computer: Provide a desktop computer in the primary field office adequate for use by Architect and Owner to access Project electronic documents and maintain electronic communications. Equip computer with not less than the following:

## SECTION 01 50 00- TEMPORARY FACILITIES AND CONTROLS

1. Processor: Intel Core i5 or i7.
2. Memory: 16 gigabyte.
3. Disk Storage: 1 -terabyte hard-disk drive and combination DVD-RW/CD-RW drive.
4. Display: 24-inch LCD monitor with 256-Mb dedicated video RAM.
5. Full-size keyboard and mouse.
6. Network Connectivity: 10/100BaseT Ethernet Gigabit.
7. Operating System: Microsoft Windows 10 Professional.
8. Productivity Software:
  - a. Microsoft Office Professional, 2013 or higher, including Word, Excel, and Outlook.
  - b. Adobe Reader DC.
  - c. WinZip 10.0 or higher.
9. Printer: "All-in-one" unit equipped with printer server, combining color printing, photocopying, scanning, and faxing, or separate units for each of these three functions.
10. Internet Service: Broadband modem, router, and ISP, equipped with hardware firewall, providing minimum 10.0 -Mbps upload and 15 -Mbps download speeds at each computer.
11. Internet Security: Integrated software, providing software firewall, virus, spyware, phishing, and spam protection in a combined application.
12. Backup: External hard drive, minimum 2 terrabytes, with automated backup software providing daily backups.

## 3.4 SUPPORT FACILITIES INSTALLATION

## A. Comply with the following:

1. Provide construction for temporary field offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible in accordance with ASTM E136. Comply with NFPA 241.
2. Utilize designated area within existing building for temporary field offices.
3. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

## B. Traffic Controls: Comply with requirements of authorities having jurisdiction.

1. Protect existing site improvements to remain, including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.

## C. Storage and Staging: Use designated areas of Project site for storage and staging needs.

## D. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.

1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
2. Remove snow and ice as required to minimize accumulations.

## E. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.

1. Identification Signs: Provide Project identification signs as indicated on Drawings.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 50 00- TEMPORARY FACILITIES AND CONTROLS

2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
    - a. Provide temporary, directional signs for construction personnel and visitors.
  3. Maintain and touch up signs, so they are legible at all times.
- F. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- G. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
1. Where access to adjacent properties is required in order to affect protection of existing facilities, obtain written permission from adjacent property owner to access property for that purpose.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
1. Comply with work restrictions specified in Section 011000 "Summary."
- C. Temporary Erosion and Sedimentation Control: Comply with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent and requirements specified in Section 311000 "Site Clearing."
- D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- E. Tree and Plant Protection: Comply with requirements specified in Section 015639 "Temporary Tree and Plant Protection."
- F. Site Enclosure Fence: Before construction operations begin , furnish and install site enclosure fence in a manner that will prevent people from easily entering site except by entrance gates.
1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations .
  2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner.
- G. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 50 00- TEMPORARY FACILITIES AND CONTROLS

- H. Temporary Egress: Provide temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction. Provide signage directing occupants to temporary egress.

3.6 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
  - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
  - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
  - 2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.
  - 3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION 015000



SECTION 015639 - TEMPORARY TREE AND PLANT PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general protection and pruning of existing trees and plants that are affected by execution of the Work, whether temporary or permanent construction.
- B. Related Requirements:
  - 1. Section 015000 "Temporary Facilities and Controls" for temporary site fencing.
  - 2. Section 311000 "Site Clearing" for removing existing trees and shrubs.

1.3 DEFINITIONS

- A. Caliper: Diameter of a trunk measured by a diameter tape or the average of the smallest and largest diameters at a height **6 inches** above the ground for trees up to and including **4-inch** size at this height and as measured at a height of **12 inches** above the ground for trees larger than **4-inch** size.
- B. Caliper (DBH): Diameter breast height; diameter of a trunk as measured by a diameter tape or the average of the smallest and largest diameters at a height **54 inches** above the ground line for trees with caliper of **8 inches** or greater as measured at a height of **12 inches** above the ground.
- C. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction and indicated on Drawings.
- D. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and defined by a circle concentric with each tree with a radius 1.5 times the diameter of the drip line unless otherwise indicated .
- E. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site .
  - 1. Review methods and procedures related to temporary tree and plant protection including, but not limited to, the following:
    - a. Tree-service firm's personnel, and equipment needed to make progress and avoid delays.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 56 39- TEMPORARY TREE AND PLANT PROTECTION

- b. Arborist's responsibilities.
- c. Quality-control program.
- d. Coordination of Work and equipment movement with the locations of protection zones.
- e. Trenching by hand or with air spade within protection zones.
- f. Field quality control.

1.5 ACTION SUBMITTALS

- A. Tree Pruning Schedule: Written schedule detailing scope and extent of pruning of trees to remain that interfere with or are affected by construction.
  - 1. Species and size of tree.
  - 2. Location on site plan. Include unique identifier for each.
  - 3. Reason for pruning.
  - 4. Description of pruning to be performed.
  - 5. Description of maintenance following pruning.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For arborist and tree service firm.
- B. Existing Conditions: Documentation of existing trees and plantings indicated to remain, which establishes preconstruction conditions that might be misconstrued as damage caused by construction activities.
  - 1. Use sufficiently detailed photographs or video recordings.
  - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plants designated to remain.
- C. Quality-control program.

1.7 FIELD CONDITIONS

- A. The following practices are prohibited within protection zones:
  - 1. Storage of construction materials, debris, or excavated material.
  - 2. Moving or parking vehicles or equipment.
  - 3. Foot traffic.
  - 4. Erection of sheds or structures.
  - 5. Impoundment of water.
  - 6. Excavation or other digging unless otherwise indicated.
  - 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- B. Do not direct vehicle or equipment exhaust toward protection zones.
- C. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones and organic mulch.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Backfill Soil: Stockpiled soil mixed with planting soil of suitable moisture content and granular texture for placing around tree; free of stones, roots, plants, sod, clods, clay lumps, pockets of coarse sand, concrete slurry, concrete layers or chunks, cement, plaster, building debris, and other extraneous materials harmful to plant growth.
  - 1. Mixture: Well-blended mix of two parts stockpiled soil to one part planting soil .
  - 2. Planting Soil: Planting soil as specified in Section 329115 "Soil Preparation (Performance Specification)."
- B. Organic Mulch: Free from deleterious materials and suitable as a top dressing for trees and shrubs, consisting of one of the following:
  - 1. Type: Ground or shredded bark .
  - 2. Size Range: 3 inches maximum, 1/2 inch minimum .
  - 3. Color: Natural.
- C. Protection-Zone Fencing: Fencing fixed in position and meeting one of the following requirements: Previously used materials may be used when approved by Architect.
  - 1. Plastic Protection-Zone Fencing: Plastic construction fencing constructed of high-density extruded and stretched polyethylene fabric with 2-inch maximum opening in pattern and weighing a minimum of 0.4 lb/ft.; remaining flexible from minus 60 to plus 200 deg F; inert to most chemicals and acids; minimum tensile yield strength of 2000 psi and ultimate tensile strength of 2680 psi; secured with plastic bands or galvanized-steel or stainless-steel wire ties; and supported by tubular or T-shape galvanized-steel posts spaced not more than 96 inches apart.
    - a. Height: 48 inches .
    - b. Color: High-visibility orange, nonfading.
  - 2. Gates: Single- swing access gates matching material and appearance of fencing, to allow for maintenance activities within protection zones; leaf width 24 inches .

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Erosion and Sedimentation Control: Examine the site to verify that temporary erosion- and sedimentation-control measures are in place. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- B. Prepare written report, endorsed by arborist, listing conditions detrimental to tree and plant protection.

### 3.2 PREPARATION

- A. Locate and clearly identify trees, shrubs, and other vegetation to remain . Tie a 1-inch blue vinyl tape around each tree trunk at 54 inches above the ground.
- B. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations.
- C. Tree-Protection Zones: Mulch areas inside tree-protection zones and other areas indicated. Do not exceed indicated thickness of mulch.
  - 1. Apply 2-inch uniform thickness of organic mulch unless otherwise indicated. Do not place mulch within 6 inches of tree trunks.
  - 2. Install temporary root protection matting over mulch to the extent indicated.
- D. Trunk Protection: Protect the trunk of each tree to remain as follows:
  - 1. Install 2-by-4-inch wood planks around trunk at maximum 3 inches apart. Minimum three planks per tree. Band together with no less than three steel bands stapled to the planks to hold them securely in place. Wrap orange plastic construction fencing to a minimum of three layers outside slats. Fasten wrap with wire.
    - a. Height: 48 inches .
  - 2. Wrap trunk with orange plastic construction fencing to 2 inches in thickness . Install 2-by-4-inch wood planks around trunk over wrap at maximum 3 inches apart. Minimum three planks per tree. Band together with no less than three steel bands stapled to the planks to hold them securely in place.
    - a. Height: 48 inches .
    - b. Trunk protection to remain in place no longer than 6 months . If construction exceeds timeframe indicated, inspect trunk protection at 6-month intervals and loosen if necessary.

### 3.3 PROTECTION ZONES

- A. Protection-Zone Fencing: Install protection-zone fencing along edges of protection zones before materials or equipment are brought on the site and construction operations begin in a manner that will prevent people and animals from easily entering protected areas except by entrance gates. Construct fencing so as not to obstruct safe passage or visibility at vehicle intersections where fencing is located adjacent to pedestrian walkways or in close proximity to street intersections, drives, or other vehicular circulation.
  - 1. Posts: Set or drive posts into ground one-third the total height of the fence without concrete footings. Where a post is located on existing paving or concrete to remain, provide appropriate means of post support acceptable to Architect.
  - 2. Access Gates: Install ; adjust to operate smoothly, easily, and quietly; free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Maintain protection zones free of weeds and trash.

## SECTION 01 56 39- TEMPORARY TREE AND PLANT PROTECTION

- C. Maintain protection-zone fencing and signage in good condition as acceptable to Architect and remove when construction operations are complete and equipment has been removed from the site.
  - 1. Do not remove protection-zone fencing, even temporarily, to allow deliveries or equipment access through the protection zone.
  - 2. Temporary access is permitted subject to preapproval in writing by arborist if a root buffer effective against soil compaction is constructed as directed by arborist. Maintain root buffer so long as access is permitted.

## 3.4 EXCAVATION

- A. General: Excavate at edge of protection zones and for trenches indicated within protection zones according to requirements in Section 312000 "Earth Moving" unless otherwise indicated.
- B. Trenching within Protection Zones: Where utility trenches are required within protection zones, excavate under or around tree roots by hand or with air spade, or tunnel under the roots by drilling, auger boring, or pipe jacking. Do not cut main lateral tree roots or taproots; cut only smaller roots that interfere with installation of utilities. Cut roots as required for root pruning. If excavating by hand, use narrow-tine spading forks to comb soil and expose roots.
- C. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.

## 3.5 ROOT PRUNING

## 3.6 CROWN PRUNING

- A. Prune branches that are affected by temporary and permanent construction. Prune branches .
  - 1. Prune to remove only injured, broken, dying, or dead branches unless otherwise indicated. Do not prune for shape unless otherwise indicated.
  - 2. Do not remove or reduce living branches to compensate for root loss caused by damaging or cutting root system.
  - 3. Pruning Standards: Prune trees according to ANSI A300 (Part 1).
- B. Unless otherwise directed by arborist and acceptable to Architect, do not cut tree leaders.
- C. Cut branches with sharp pruning instruments; do not break or chop.
- D. Do not paint or apply sealants to wounds.
- E. Provide subsequent maintenance pruning during Contract period as recommended by arborist.
- F. Chip removed branches and stockpile in areas approved by Architect .

3.7      REGRADING

- A.    Minor Fill within Protection Zone: Where existing grade is 2 inches or less below elevation of finish grade, fill with backfill soil. Place backfill soil in a single uncompacted layer and hand grade to required finish elevations.

3.8      REPAIR AND REPLACEMENT

- A.    General: Repair or replace trees, shrubs, and other vegetation indicated to remain or to be relocated that are damaged by construction operations, in a manner approved by Architect.
  - 1.    Submit details of proposed pruning and repairs.
  - 2.    Perform repairs of damaged trunks, branches, and roots within 24 hours according to arborist's written instructions.
  - 3.    Replace trees and other plants that cannot be repaired and restored to full-growth status, as determined by Architect.
- B.    Excess Mulch: Rake mulched area within protection zones, being careful not to injure roots. Rake to loosen and remove mulch that exceeds a 2-inch uniform thickness to remain.

3.9      DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A.    Disposal: Remove excess excavated material, displaced trees, trash, and debris and legally dispose of them off Owner's property.

END OF SECTION 015639

SECTION 015723 - TEMPORARY STORMWATER POLLUTION CONTROL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
  - 1. Temporary stormwater pollution controls.

1.3 STORMWATER POLLUTION PREVENTION PLAN

- A. The Stormwater Pollution Prevention Plan (SWPPP) is part of the Contract Documents and is bound into this Project Manual.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site .
  - 1. Meet with Owner, Architect, Construction Manager, and earthwork subcontractor.
  - 2. Review requirements of the SWPPP, including permitting process, worker training, and inspection and maintenance requirements.

1.5 INFORMATIONAL SUBMITTALS

- A. Stormwater Pollution Prevention Plan (SWPP): Within 15 days of date established for commencement of the Work, submit completed SWPPP.
- B. EPA authorization under the EPA's "2017 Construction General Permit (CGP)."
- C. Stormwater Pollution Prevention (SWPP) Training Log: For each individual performing Work under the SWPPP.
- D. Inspection reports.

1.6      QUALITY ASSURANCE

- A.    Stormwater Pollution Prevention Plan (SWPPP) Coordinator: Experienced individual or firm with a record of successful water pollution control management coordination of projects with similar requirements.
  - 1.    SWPPP Coordinator shall complete and finalize the SWPPP form.
  - 2.    SWPPP Coordinator shall be responsible for inspections and maintaining of all requirements of the SWPPP.
- B.    Installers: Trained as indicated in the SWPPP.

PART 2 - PRODUCTS

2.1      TEMPORARY STORMWATER POLLUTION CONTROLS

- A.    Provide temporary stormwater pollution controls as required by the SWPPP.

PART 3 - EXECUTION

3.1      INSTALLATION

- A.    Comply with all best management practices, general requirements, performance requirements, reporting requirements, and all other requirements included in the SWPPP.
- B.    Locate stormwater pollution controls in accordance with the SWPPP.
- C.    Conduct construction as required to comply with the SWPPP and that minimize possible contamination or pollution or other undesirable effects.
  - 1.    Inspect, repair, and maintain SWPPP controls during construction.
    - a.    Inspect all SWPPP controls not less than every seven days, and after each occurrence of a storm event, as outlined in the SWPPP.
- D.    Remove SWPPP controls at completion of construction and restore and stabilize areas disturbed during construction.

END OF SECTION 015723



SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
  - 1. Recycling nonhazardous demolition waste.
  - 2. Disposing of nonhazardous demolition waste.
- B. Related Requirements:
  - 1. Section 311000 "Site Clearing" for disposition of waste resulting from site clearing and removal of above- and below-grade improvements.

1.3 DEFINITIONS

- A. Demolition Waste: Building, structure, and site improvement materials resulting from demolition operations.
- B. Disposal: Removal of demolition or construction waste and subsequent salvage, sale, recycling, or deposit in landfill, incinerator acceptable to authorities having jurisdiction, or designated spoil areas on Owner's property.
- C. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- D. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- E. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition and construction waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 74 19- CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.5 ACTION SUBMITTALS

- A. Waste Management Plan: Submit plan within 30 days of date established for the Notice of Award.

1.6 INFORMATIONAL SUBMITTALS

- A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Use and . Include the following information:
  1. Material category.
  2. Generation point of waste.
  3. Total quantity of waste in **tons**.
  4. Quantity of waste salvaged, both estimated and actual in **tons**.
  5. Quantity of waste recycled, both estimated and actual in **tons**.
  6. Total quantity of waste recovered (salvaged plus recycled) in **tons**.
  7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
- B. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- C. Qualification Data: For waste management coordinator refrigerant recovery technician.
- D. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- E. Refrigerant Recovery: Comply with requirements in Section 024116 "Structure Demolition" for refrigerant recovery submittals.

1.7 QUALITY ASSURANCE

- A. Waste Management Coordinator Qualifications: Experienced firm, or individual employed and assigned by General Contractor, with a record of successful waste management coordination of projects with similar requirements. Superintendent may serve as Waste Management Coordinator.
- B. Refrigerant Recovery Technician Qualifications: Universal certified by EPA-approved certification program.
- C. Refrigerant Recovery Technician Qualifications: Comply with requirements in Section 024116 "Structure Demolition."
- D. Regulatory Requirements: Comply with transportation and disposal regulations of authorities having jurisdiction.

## SECTION 01 74 19- CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

- E. Waste Management Conference(s): Conduct conference(s) at Project site to comply with requirements in Section 013100 "Project Management and Coordination." Review methods and procedures related to waste management including, but not limited to, the following:
1. Review and discuss waste management plan including responsibilities of each contractor and waste management coordinator.
  2. Review requirements for documenting quantities of each type of waste and its disposition.
  3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
  4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
  5. Review waste management requirements for each trade.

## 1.8 WASTE MANAGEMENT PLAN

- A. General: Develop a waste management plan according to requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Distinguish between demolition and construction waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.
- B. Waste Identification: Indicate anticipated types and quantities of demolition site-clearing waste generated by the Work. Use . Include estimated quantities and assumptions for estimates.
- C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Use and Form CWM-4 for demolition waste . Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work in compliance with Section 024116 "Structure Demolition."
  2. Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
  3. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
  4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
  5. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
  6. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location where materials separation will be performed.
- D. Cost/Revenue Analysis: Indicate total cost of waste disposal as if there were no waste management plan and net additional cost or net savings resulting from implementing waste management plan. Use and . Include the following:
1. Total quantity of waste.
  2. Estimated cost of disposal (cost per unit). Include transportation and tipping fees and cost of collection containers and handling for each type of waste.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 01 74 19- CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

3. Total cost of disposal (with no waste management).
4. Revenue from salvaged materials.
5. Revenue from recycled materials.
6. Savings in transportation and tipping fees by donating materials.
7. Savings in transportation and tipping fees that are avoided.
8. Handling and transportation costs. Include cost of collection containers for each type of waste.
9. Net additional cost or net savings from waste management plan.

PART 2 - PRODUCTS

2.1 RECYCLING RECEIVERS AND PROCESSORS

- A. Subject to compliance with requirements, available recycling receivers and processors include, but are not limited to, the following:
  1. Refer to Local salvage yard and recycling centers in Pueblo. The Health Department as a resource for recycling centers.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Achieve end-of-Project rates for salvage/recycling of 50 percent by weight of total nonhazardous solid waste generated by the Work. Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators. Facilitate recycling and salvage of materials
  1. Demolition Waste:
    - a. Asphalt paving.
    - b. Concrete.
    - c. Concrete reinforcing steel.
    - d. Brick.
    - e. Structural and miscellaneous steel.
    - f. Metal studs.
    - g. Gypsum board.
    - h. Carpet.
    - i. Carpet pad.
    - j. Supports and hangers.
    - k. Electrical conduit.
    - l. Copper wiring.
    - m. .

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
  - 1. Comply with operation, termination, and removal requirements in Section 015000 "Temporary Facilities and Controls."
- B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.
- C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.
  - 1. Distribute waste management plan to everyone concerned within three days of submittal return.
  - 2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.
- D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - 1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged and recycled.
  - 2. Comply with Section 015000 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.
- E. Waste Management in Historic Zones or Areas: Transportation equipment and other materials shall be of sizes that clear surfaces within historic spaces, areas, rooms, and openings, by 12 inches or more.

3.2 RECYCLING DEMOLITION AND WASTE, GENERAL

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor .
- C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.
- D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.

## SECTION 01 74 19- CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
  - a. Inspect containers and bins for contamination and remove contaminated materials if found.
2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Remove recyclable waste from Owner's property and transport to recycling receiver or processor as often as required to prevent overfilling bins.

## 3.3 RECYCLING DEMOLITION WASTE

- A. Asphalt Paving: Grind asphalt to maximum 1-1/2-inch size.
  1. Crush asphaltic concrete paving and screen to comply with requirements in Section 312000 "Earth Moving" for use as general fill.
- B. Asphalt Paving: Break up and transport paving to asphalt-recycling facility.
- C. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.
  1. Pulverize concrete to maximum 1-1/2-inch size.
  2. Crush concrete and screen to comply with requirements in Section 312000 "Earth Moving" for use as satisfactory soil for fill or subbase.
- D. Masonry: Remove metal reinforcement, anchors, and ties from masonry and sort with other metals.
  1. Pulverize masonry to maximum 3/4-inch 4-inch size.
    - a. Crush masonry and screen to comply with requirements in Section 312000 "Earth Moving" for use as general fill satisfactory soil for fill or subbase.
    - b. Crush masonry and screen to comply with requirements in Section 329300 "Plants" for use as mineral mulch.
  2. Clean and stack undamaged, whole masonry units on wood pallets.
- E. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood materials.
- F. Metals: Separate metals by type.
  1. Structural Steel: Stack members according to size, type of member, and length.
  2. Remove and dispose of bolts, nuts, washers, and other rough hardware.
- G. Asphalt Shingle Roofing: Separate organic and glass-fiber asphalt shingles and felts. Remove and dispose of nails, staples, and accessories.
- H. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.

## SECTION 01 74 19- CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

- I. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.
- J. Metal Suspension System: Separate metal members, including trim and other metals from acoustical panels and tile, and sort with other metals.
- K. Carpet and Pad: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.
  - 1. Store clean, dry carpet and pad in a closed container or trailer provided by carpet reclamation agency or carpet recycler.
- L. Carpet Tile: Remove debris, trash, and adhesive.
  - 1. Stack tile on pallet and store clean, dry carpet in a closed container or trailer provided by carpet reclamation agency or carpet recycler.
- M. Piping: Reduce piping to straight lengths and store by material and size. Separate supports, hangers, valves, sprinklers, and other components by material and size.
- N. Conduit: Reduce conduit to straight lengths and store by material and size.
- O. Lamps: Separate lamps by type and store according to requirements in 40 CFR 273.

## 3.4 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged or recycled, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
  - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
  - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.

## 3.5 ATTACHMENTS

- A. Form CWM-4 for demolition waste reduction work plan.

END OF SECTION 017419

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for Contract closeout, including, but not limited to, the following:
  - 1. Final completion procedures.
- B. Related Requirements:
  - 1. Section 012900 "Payment Procedures" for requirements for Applications for Payment for Substantial Completion and Final Completion.
  - 2. Section 013233 "Photographic Documentation" for submitting Final Completion construction photographic documentation.
  - 3. Section 017839 "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.

1.3 DEFINITIONS

- A. List of Incomplete Items: Contractor-prepared list of items to be completed or corrected, prepared for the Architect's use prior to Architect's inspection, to determine if the Work is substantially complete.

1.4 ACTION SUBMITTALS

- A. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

1.5 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.
- B. Certificate of Insurance: For continuing coverage.
- C. Field Report: For pest-control inspection.



1.6 MAINTENANCE MATERIAL SUBMITTALS

1.7 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining Final Completion, complete the following:
  - 1. Submit a final Application for Payment in accordance with Section 012900 "Payment Procedures."
  - 2. Submit Final Completion photographic documentation.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect and Construction Manager will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
  - 1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
  - 1. Organize list of spaces in sequential order, starting with exterior areas first , listed by room or space number.
  - 2. Organize items applying to each space by major element, including categories for ceilings, individual walls, floors, equipment, and building systems.
  - 3. Include the following information at the top of each page:
    - a. Project name.
    - b. Date.
    - c. Name of Architect and Construction Manager.
    - d. Name of Contractor.
    - e. Page number.
  - 4. Submit list of incomplete items in the following format:
    - a. PDF Electronic File: Architect , through Construction Manager, will return annotated file.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
  - 1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 REPAIR OF THE WORK

- A. Complete repair and restoration operations required by Section 017300 "Execution" before requesting inspection for determination of Substantial Completion.

END OF SECTION 017700

SECTION 024116 - STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Demolition and removal of buildings and site improvements.
2. Removing below-grade construction.
3. Disconnecting, capping or sealing, and abandoning in-place removing site utilities.
4. Salvaging items for reuse by Owner.

B. Related Requirements:

1. Section 011000 "Summary" for use of the premises and phasing requirements.
2. Section 013200 "Construction Progress Documentation" for preconstruction photographs taken before building demolition.
3. Section 311000 "Site Clearing" for site clearing and removal of above- and below-grade site improvements not part of building demolition.

1.3 DEFINITIONS

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
  1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.5 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project site .
  1. Inspect and discuss condition of construction to be demolished.
  2. Review structural load limitations of existing structures.

3. Review and finalize building demolition schedule and verify availability of demolition personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review and finalize protection requirements.
5. Review procedures for noise control and dust control.
6. Review procedures for protection of adjacent buildings.
7. Review items to be salvaged and returned to Owner.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For refrigerant recovery technician.
- B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property , for environmental protection , for dust control and , for noise control. Indicate proposed locations and construction of barriers.
  1. Adjacent Buildings: Detail special measures proposed to protect adjacent buildings to remain including means of egress from those buildings.
- C. Schedule of Building Demolition Activities: Indicate the following:
  1. Detailed sequence of demolition work, with starting and ending dates for each activity.
  2. Temporary interruption of utility services.
  3. Shutoff and capping or re-routing of utility services.
- D. Predemolition Photographs or Video: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by salvage and demolition operations. Comply with Section 013233 "Photographic Documentation." Submit before the Work begins.
- E. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

#### 1.7 CLOSEOUT SUBMITTALS

#### 1.8 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

#### 1.9 FIELD CONDITIONS

- A. Buildings to be demolished will be vacated and their use discontinued before start of the Work.
- B. Buildings immediately adjacent to demolition area will be occupied. Conduct building demolition so operations of occupied buildings will not be disrupted.

1. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied buildings.
2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings.
  - a. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.
- C. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- D. Hazardous Materials: Present in buildings and structures to be demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
  1. Hazardous material remediation is specified elsewhere in the Contract Documents.
  2. Do not disturb hazardous materials or items suspected of containing hazardous materials except under procedures specified elsewhere in the Contract Documents.
  3. Owner will provide material safety data sheets for materials that are known to be present in buildings and structures to be demolished because of building operations or processes performed there.
- E. On-site storage or sale of removed items or materials is not permitted.

#### 1.10 COORDINATION

- A. Arrange demolition schedule so as not to interfere with Owner's on-site operations or operations of adjacent occupied buildings.

### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

#### 2.2 SOIL MATERIALS

- A. Satisfactory Soils: Comply with requirements in Section 312000 "Earth Moving."

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting demolition operations.

- B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
- C. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during building demolition operations.
- D. Steel Tendons: Locate tensioned steel tendons and include recommendations for de-tensioning.
- E. Verify that hazardous materials have been remediated before proceeding with building demolition operations.
- F. Inventory and record the condition of items to be removed and salvaged.

### 3.2 PREPARATION

- A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.
- B. Salvaged Items: Comply with the following:
  - 1. Clean salvaged items of dirt and demolition debris.

### 3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Utilities to be Disconnected: Locate, identify, disconnect, and seal or cap off utilities serving buildings and structures to be demolished.
  - 1. Arrange to shut off utilities with utility companies.
  - 2. If removal, relocation, or abandonment of utility services will affect adjacent occupied buildings, then provide temporary utilities that bypass buildings and structures to be demolished and that maintain continuity of service to other buildings and structures.
  - 3. Cut off pipe or conduit a minimum of 24 inches below grade. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing according to requirements of authorities having jurisdiction.
  - 4. Do not start demolition work until utility disconnecting and sealing have been completed and verified in writing.

### 3.4 PROTECTION

- A. Existing Facilities: Protect adjacent walkways, loading docks, building entries, and other building facilities during demolition operations. Maintain exits from existing buildings.
- B. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent unexpected movement or collapse of construction being demolished.
  - 1. Strengthen or add new supports when required during progress of demolition.

- C. Existing Utilities to Remain: Maintain utility services to remain and protect from damage during demolition operations.
  - 1. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.
  - 2. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and authorities having jurisdiction.
    - a. Provide at least 72 hours' notice to occupants of affected buildings if shutdown of service is required during changeover.
- D. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction and as indicated. Comply with requirements in Section 015000 "Temporary Facilities and Controls."
  - 1. Protect adjacent buildings and facilities from damage due to demolition activities.
  - 2. Protect existing site improvements, appurtenances, and landscaping to remain.
  - 3. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
  - 4. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
  - 5. Provide protection to ensure safe passage of people around building demolition area and to and from occupied portions of adjacent buildings and structures.
  - 6. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building demolition operations.
  - 7. Erect and maintain dustproof partitions and temporary enclosures to limit dust, noise, and dirt migration to occupied portions of adjacent buildings.
- E. Remove temporary barriers and protections where hazards no longer exist. Where open excavations or other hazardous conditions remain, leave temporary barriers and protections in place.

### 3.5 DEMOLITION, GENERAL

- A. General: Demolish indicated buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - 1. Do not use cutting torches until work area is cleared of flammable materials. Maintain portable fire-suppression devices during flame-cutting operations.
  - 2. Maintain fire watch during and for at least 2 hours after flame-cutting operations.
  - 3. Maintain adequate ventilation when using cutting torches.
  - 4. Locate building demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
- B. Site Access and Temporary Controls: Conduct building demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - 1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide

- alternate routes around closed or obstructed traffickways if required by authorities having jurisdiction.
  - 2. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations. Do not use water when it may damage adjacent construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.
- C. Explosives: Use of explosives is not permitted.

### 3.6 DEMOLITION BY MECHANICAL MEANS

- A. Proceed with demolition of structural framing members systematically, from higher to lower level. Complete building demolition operations above each floor or tier before disturbing supporting members on the next lower level.
- B. Remove debris from elevated portions of the building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
  - 1. Remove structural framing members and lower to ground by method suitable to minimize ground impact and dust generation.
- C. Salvage: Items to be removed and salvaged are indicated on Drawings.
- D. Below-Grade Construction: Demolish foundation walls and other below-grade construction.
  - 1. Remove below-grade construction, including basements, foundation walls, and footings, completely .
- E. Existing Utilities: Abandon existing utilities and below-grade utility structures. Cut utilities flush with grade. Unless otherwise noted on drawings
- F. Existing Utilities: Demolish and remove existing utilities and below-grade utility structures.
- G. Hydraulic Elevator Systems: Demolish and remove elevator system, including cylinder, plunger, well assembly, steel well casing and liner, oil supply lines, and tanks.

### 3.7 SITE RESTORATION

- A. Below-Grade Areas: Completely fill below-grade areas and voids resulting from building demolition operations with satisfactory soil materials recycled pulverized concrete recycled pulverized masonry according to backfill requirements in Section 312000 "Earth Moving."
- B. Site Grading: Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.

### 3.8 REPAIRS

- A. Promptly repair damage to adjacent buildings caused by demolition operations.



3.9 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction. and recycle or dispose of them according to Section 017419 "Construction Waste Management and Disposal."
  - 1. Do not allow demolished materials to accumulate on-site.
  - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Do not burn demolished materials.

3.10 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by building demolition operations. Return adjacent areas to condition existing before building demolition operations began.
  - 1. Clean roadways of debris caused by debris transport.

END OF SECTION 024116

SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Stripping and stockpiling rock.
6. Removing above- and below-grade site improvements.
7. Disconnecting, capping or sealing, and removing site utilities abandoning site utilities in place.
8. Temporary erosion and sedimentation control.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for temporary erosion- and sedimentation-control measures.

C. Related Requirements:

1. Section 01500 "Temporary Facilities and Controls" for temporary erosion- and sedimentation-control measures.

1.3 DEFINITIONS

- A. Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.
- B. Surface Soil: Soil that is present at the top layer of the existing soil profile. In undisturbed areas, surface soil is typically called "topsoil," but in disturbed areas such as urban environments, the surface soil can be subsoil.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil; the zone where plant roots grow.
- D. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil; the zone where plant roots grow. Its appearance is generally friable, pervious,

and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects larger than 2 inches in diameter; and free of weeds, roots, toxic materials, or other nonsoil materials.

- E. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction and indicated on Drawings.
- F. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and indicated on Drawings .
- G. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

#### 1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site .

#### 1.5 MATERIAL OWNERSHIP

- A. Except for materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
  - 1. Use sufficiently detailed photographs or video recordings.
  - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plant designated to remain.
- B. Topsoil stripping and stockpiling program.
- C. Rock stockpiling program.
- D. Burning: Documentation of compliance with burning requirements and permitting of authorities having jurisdiction. Identify location(s) and conditions under which burning will be performed.

#### 1.7 QUALITY ASSURANCE

- A. Topsoil Stripping and Stockpiling Program: Prepare a written program to systematically demonstrate the ability of personnel to properly follow procedures and handle materials and equipment during the Work. Include dimensioned diagrams for placement and protection of stockpiles.
- B. Rock Stockpiling Program: Prepare a written program to systematically demonstrate the ability of personnel to properly follow procedures and handle materials and equipment during the Work. Include dimensioned diagrams for placement and protection of stockpiles.

## 1.8 FIELD CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
  - 2. Provide alternate routes around closed or obstructed trafficways if required by Owner or authorities having jurisdiction.
- B. Salvageable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated .
- C. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- D. Do not commence site clearing operations until temporary erosion- and sedimentation-control and plant-protection measures are in place.
- E. Tree- and Plant-Protection Zones: Protect according to requirements in Section 015639 "Temporary Tree and Plant Protection."
- F. Soil Stripping, Handling, and Stockpiling: Perform only when the soil is dry or slightly moist.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 312000 "Earth Moving."
  - 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.
- B. Antirust Coating: Fast-curing, lead- and chromate-free, self-curing, universal modified-alkyd primer complying with MPI #23 (surface-tolerant, anticorrosive metal primer) or SSPC-Paint 20 or SSPC-Paint 29 zinc-rich coating .

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Verify that trees, shrubs, and other vegetation to remain or to be relocated have been flagged and that protection zones have been identified and enclosed according to requirements in Section 015639 "Temporary Tree and Plant Protection."

- C. Protect existing site improvements to remain from damage during construction.
  - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

### 3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.

### 3.3 TREE AND PLANT PROTECTION

- A. Protect trees and plants remaining on-site according to requirements in Section 015639 "Temporary Tree and Plant Protection."
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations according to requirements in Section 015639 "Temporary Tree and Plant Protection."

### 3.4 EXISTING UTILITIES

- A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
  - 1. Arrange with utility companies to shut off indicated utilities.
- B. Locate, identify, and disconnect utilities indicated to be abandoned in place.
- C. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others, unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
  - 1. Notify Architect not less than two days in advance of proposed utility interruptions.
  - 2. Do not proceed with utility interruptions without Architect's written permission.
- D. Excavate for and remove underground utilities indicated to be removed.

### 3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
  - 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
  - 2. Grind down stumps and remove roots larger than 3 inches in diameter, obstructions, and debris to a depth of 18 inches below exposed subgrade.
  - 3. Use only hand methods or air spade for grubbing within protection zones.
  - 4. Chip removed tree branches and dispose of off-site .
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
  - 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

### 3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to depth indicated on Drawings in a manner to prevent intermingling with underlying subsoil or other waste materials.
  - 1. Remove subsoil and nonsoil materials from topsoil, including clay lumps, gravel, and other objects larger than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil or other materials. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
  - 1. Limit height of topsoil stockpiles to 72 inches .
  - 2. Do not stockpile topsoil within protection zones.
  - 3. Stockpile surplus topsoil to allow for resspreading deeper topsoil.

### 3.7 STOCKPILING ROCK

- A. Remove from area indicated on Drawings naturally formed rocks that measure more than 1 foot across in least dimension. Do not include excavated or crushed rock.
  - 1. Separate or wash off non-rock materials from rocks, including soil, clay lumps, gravel, and other objects larger than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.
- B. Stockpile rock away from edge of excavations without intermixing with other materials. Cover to prevent windblown debris from accumulating among rocks.
  - 1. Limit height of rock stockpiles to 36 inches .
  - 2. Do not stockpile rock within protection zones.

3. Dispose of surplus rock. Surplus rock is that which exceeds quantity indicated to be stockpiled or reused.
4. Stockpile surplus rock to allow later use by the Owner.

### 3.8 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.
- B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.
  1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically.
  2. Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

### 3.9 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Burning tree, shrub, and other vegetation waste is permitted according to burning requirements and permitting of authorities having jurisdiction. Control such burning to produce the least smoke or air pollutants and minimum annoyance to surrounding properties. Burning of other waste and debris is prohibited.
- C. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials, and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 311000

SECTION 312000 - EARTH MOVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Excavating and filling for rough grading the Site.
2. Preparing subgrades for turf and grasses .

B. Related Requirements:

1. Section 013200 "Construction Progress Documentation" Section 013233 "Photographic Documentation" for recording preexcavation and earth-moving progress.
2. Section 311000 "Site Clearing" for site stripping, grubbing, stripping and stockpiling topsoil, and removal of above- and below-grade improvements and utilities.
3. Section 315000 "Excavation Support and Protection" for shoring, bracing, and sheet piling of excavations.
4. Section 316329 "Drilled Concrete Piers and Shafts" for excavation of shafts and disposal of surplus excavated material.
5. Section 329200 "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas.
6. Section 329300 "Plants" for finish grading in planting areas and tree and shrub pit excavation and planting.

1.3 DEFINITIONS

A. Backfill: Soil material or controlled low-strength material used to fill an excavation.

1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.

B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.



- E. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.
- F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
  - 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
  - 2. Bulk Excavation: Excavation more than 10 feet in width and more than 30 feet in length.
  - 3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.
- G. Fill: Soil materials used to raise existing grades.
- H. Rock: Rock material in beds, ledges, unstratified masses, conglomerate deposits, and boulders of rock material that exceed 1 cu. yd. for bulk excavation or 3/4 cu. yd. for footing, trench, and pit excavation that cannot be removed by rock-excavating equipment equivalent to the following in size and performance ratings, without systematic drilling, ram hammering, ripping, or blasting, when permitted:
  - 1. Equipment for Footing, Trench, and Pit Excavation: Late-model, track-mounted hydraulic excavator; equipped with a 42-inch- maximum-width, short-tip-radius rock bucket; rated at not less than 138-hp flywheel power with bucket-curling force of not less than 28,700 lbf and stick-crowd force of not less than 18,400 lbf with extra-long reach boom.
  - 2. Equipment for Bulk Excavation: Late-model, track-mounted loader; rated at not less than 230-hp flywheel power and developing a minimum of 47,992-lbf breakout force with a general-purpose bare bucket.
- I. Rock: Rock material in beds, ledges, unstratified masses, conglomerate deposits, and boulders of rock material 3/4 cu. yd. or more in volume that exceed a standard penetration resistance of 100 blows/2 inches when tested by a geotechnical testing agency, according to ASTM D1586.
- J. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- K. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.
- L. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.
- M. Utilities: On-site underground pipes, conduits, ducts, and cables as well as underground services within buildings.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct preexcavation conference at Project site .
  - 1. Review methods and procedures related to earthmoving, including, but not limited to, the following:
    - a. Personnel and equipment needed to make progress and avoid delays.
    - b. Coordination of Work with utility locator service.
    - c. Coordination of Work and equipment movement with the locations of tree- and plant-protection zones.
    - d. Extent of trenching by hand or with air spade.
    - e. Field quality control.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of the following manufactured products required:

- 1. Controlled low-strength material, including design mixture.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified testing agency.
- B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:
  - 1. Classification according to ASTM D2487.
  - 2. Laboratory compaction curve according to ASTM D698 ASTM D1557.
- C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by earth-moving operations. Submit before earth moving begins.

1.7 QUALITY ASSURANCE

1.8 FIELD CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth-moving operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
  - 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.

1. Do not proceed with work on adjoining property until directed by Architect.
- C. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth-moving operations.
- D. Do not commence earth-moving operations until temporary site fencing and erosion- and sedimentation-control measures specified in Section 015000 "Temporary Facilities and Controls" and Section 311000 "Site Clearing" are in place.
- E. Do not commence earth-moving operations until plant-protection measures specified in Section 015639 "Temporary Tree and Plant Protection" are in place.
- F. The following practices are prohibited within protection zones:
  1. Storage of construction materials, debris, or excavated material.
  2. Parking vehicles or equipment.
  3. Foot traffic.
  4. Erection of sheds or structures.
  5. Impoundment of water.
  6. Excavation or other digging unless otherwise indicated.
  7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- G. Do not direct vehicle or equipment exhaust towards protection zones.
- H. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

## PART 2 - PRODUCTS

### 2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.
- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D2487 Groups A-1, A-2-4, A-2-5, and A-3 according to AASHTO M 145, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D2487 Groups A-2-6, A-2-7, A-4, A-5, A-6, and A-7 according to AASHTO M 145, or a combination of these groups.
  1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

- E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.
- F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.
- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.
- H. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and zero to 5 percent passing a No. 8 sieve.
- I. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D448; coarse-aggregate grading Size 67; with 100 percent passing a 1-inch sieve and zero to 5 percent passing a No. 4 sieve.
- J. Sand: ASTM C33/C33M; fine aggregate.
- K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

## 2.2 ACCESSORIES

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth-moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth-moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

### 3.2 DEWATERING

- A. Provide dewatering system of sufficient scope, size, and capacity to control hydrostatic pressures and to lower, control, remove, and dispose of ground water and permit excavation and construction to proceed on dry, stable subgrades.
- B. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

- C. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
  - 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
- D. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water and sediment in a manner that avoids inconvenience to others.

### 3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

### 3.4 EXCAVATION, GENERAL

- A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.
  - 1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.
- B. Classified Excavation: Excavate to subgrade elevations. Material to be excavated will be classified as earth and rock. Do not excavate rock until it has been classified and cross sectioned by Architect. The Contract Sum will be adjusted for rock excavation according to unit prices included in the Contract Documents. Changes in the Contract Time may be authorized for rock excavation.
  - 1. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; and soil, boulders, and other materials not classified as rock or unauthorized excavation.
    - a. Intermittent drilling; blasting, if permitted; ram hammering; or ripping of material not classified as rock excavation is earth excavation.

### 3.5 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

### 3.6 SUBGRADE INSPECTION

- A. Notify Architect when excavations have reached required subgrade.
- B. If Architect determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.

- C. Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
  - 1. Completely proof-roll subgrade in one direction ,repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph.
  - 2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.
- D. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- E. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.

### 3.7 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.
  - 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

### 3.8 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
  - 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

### 3.9 BACKFILL

- A. Place and compact backfill in excavations promptly, but not before completing the following:
  - 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
  - 2. Surveying locations of underground utilities for Record Documents.
  - 3. Testing and inspecting underground utilities.
  - 4. Removing concrete formwork.
  - 5. Removing trash and debris.
  - 6. Removing temporary shoring, bracing, and sheeting.
  - 7. Installing permanent or temporary horizontal bracing on horizontally supported walls.
- B. Place backfill on subgrades free of mud, frost, snow, or ice.

3.10 UTILITY TRENCH BACKFILL

- A. Place backfill on subgrades free of mud, frost, snow, or ice.
- B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.
- C. Backfill voids with satisfactory soil while removing shoring and bracing.
- D. Initial Backfill:
  - 1. Soil Backfill: Place and compact initial backfill of , free of particles larger than 1 inch in any dimension, to a height of 12 inches over the pipe or conduit.
    - a. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.
- E. Final Backfill:
  - 1. Soil Backfill: Place and compact final backfill of satisfactory soil to final subgrade elevation.

3.11 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:
  - 1. Under grass and planted areas, use satisfactory soil material.
  - 2. Under walks and pavements, use satisfactory soil material.
  - 3. Under steps and ramps, use engineered fill.
  - 4. Under building slabs, use engineered fill.
  - 5. Under footings and foundations, use engineered fill.
- C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.12 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
  - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
  - 2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.13 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations and uniformly along the full length of each structure.
- C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D698 ASTM D1557:
  - 1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.
  - 2. Under walkways, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at percent.
  - 3. Under turf or unpaved areas, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 85 percent.
  - 4. For utility trenches, compact each layer of initial and final backfill soil material at 85 percent.

3.14 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
  - 1. Provide a smooth transition between adjacent existing grades and new grades.
  - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to elevations required to achieve indicated finish elevations, within the following subgrade tolerances:
  - 1. Turf or Unpaved Areas: Plus or minus 1 inch .

3.15 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
  - 1. Install separation geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
  - 2. Place base course material over subbase course under hot-mix asphalt pavement.
  - 3. Shape subbase course and base course to required crown elevations and cross-slope grades.



4. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
  5. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
  6. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 **<Insert number>** percent of maximum dry unit weight according to ASTM D698 ASTM D1557.
- C. Pavement Shoulders: Place shoulders along edges of subbase course and base course to prevent lateral movement. Construct shoulders, at least 12 inches wide, of satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 95 percent of maximum dry unit weight according to ASTM D698 ASTM D1557.

### 3.16 DRAINAGE COURSE UNDER CONCRETE SLABS-ON-GRADE

- A. Place drainage course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place and compact drainage course under cast-in-place concrete slabs-on-grade as follows:
  1. Install subdrainage geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
  2. Place drainage course 6 inches or less in compacted thickness in a single layer.
  3. Place drainage course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
  4. Compact each layer of drainage course to required cross sections and thicknesses to not less than 95 percent of maximum dry unit weight according to ASTM D698.

### 3.17 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
  1. Scarify or remove and replace soil material to depth as directed by Architect; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
  1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.18 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.
  - 1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 312000

SECTION 329115 - SOIL PREPARATION (PERFORMANCE SPECIFICATION)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes planting soils specified according to performance requirements of the mixes.
- B. Related Requirements:
  - 1. Section 311000 "Site Clearing" for topsoil stripping and stockpiling.
  - 2. Section 329200 "Turf and Grasses" for placing planting soil for turf and grasses.

1.3 DEFINITIONS

- A. AAPFCO: Association of American Plant Food Control Officials.
- B. Backfill: The earth used to replace or the act of replacing earth in an excavation. This can be amended or unamended soil as indicated.
- C. CEC: Cation exchange capacity.
- D. Compost: The product resulting from the controlled biological decomposition of organic material that has been sanitized through the generation of heat and stabilized to the point that it is beneficial to plant growth.
- E. Duff Layer: A surface layer of soil, typical of forested areas, that is composed of mostly decayed leaves, twigs, and detritus.
- F. Imported Soil: Soil that is transported to Project site for use.
- G. Manufactured Soil: Soil produced by blending soils, sand, stabilized organic soil amendments, and other materials to produce planting soil.
- H. NAPT: North American Proficiency Testing Program. An SSSA program to assist soil-, plant-, and water-testing laboratories through interlaboratory sample exchanges and statistical evaluation of analytical data.
- I. Organic Matter: The total of organic materials in soil exclusive of undecayed plant and animal tissues, their partial decomposition products, and the soil biomass; also called "humus" or "soil organic matter."

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 32 91 15- SOIL PREPARATION (PERFORMANCE SPECIFICATION)

- J.     Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified as specified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.
- K.     RCRA Metals: Hazardous metals identified by the EPA under the Resource Conservation and Recovery Act.
- L.     SSSA: Soil Science Society of America.
- M.     Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.
- N.     Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.
- O.     Surface Soil: Soil that is present at the top layer of the existing soil profile. In undisturbed areas, surface soil is typically called "topsoil"; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- P.     USCC: U.S. Composting Council.

1.4      PREINSTALLATION MEETINGS

- A.     Preinstallation Conference: Conduct conference at Project site .

1.5      ACTION SUBMITTALS

- A.     Product Data: For each type of product.
  - 1.     Include recommendations for application and use.
  - 2.     Include test data substantiating that products comply with requirements.
  - 3.     Include sieve analyses for aggregate materials.
  - 4.     Material Certificates: For each type of imported soil before delivery to the site, according to the following:
    - a.     Manufacturer's qualified testing agency's certified analysis of standard products.
    - b.     Analysis of fertilizers, by a qualified testing agency, made according to AAPFCO methods for testing and labeling and according to AAPFCO's SU1P #25.
    - c.     Analysis of nonstandard materials, by a qualified testing agency, made according to SSSA methods, where applicable.

1.6      INFORMATIONAL SUBMITTALS

1.7      QUALITY ASSURANCE

1.8      SOIL-SAMPLING REQUIREMENTS

- A.     General: Extract soil samples according to requirements in this article.

- B. Sample Collection and Labeling: Have samples taken and labeled by Contractor in presence of Architect or state-certified, -licensed, or -registered soil scientist under the direction of the testing agency.
  - 1. Number and Location of Samples: Minimum of three representative soil samples from varied locations for each soil to be used or amended for landscaping purposes.
  - 2. Procedures and Depth of Samples: According to USDA-NRCS's "Field Book for Describing and Sampling Soils."
  - 3. Division of Samples: Split each sample into two, equal parts. Send half to the testing agency and half to Owner for its records.
  - 4. Labeling: Label each sample with the date, location keyed to a site plan or other location system, visible soil condition, and sampling depth.

#### 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and compliance with state and Federal laws if applicable.
- B. Bulk Materials:
  - 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
  - 2. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
  - 3. Do not move or handle materials when they are wet or frozen.
  - 4. Accompany each delivery of bulk fertilizers and soil amendments with appropriate certificates.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

#### 2.2 PLANTING SOILS SPECIFIED ACCORDING TO PERFORMANCE REQUIREMENTS

- A. Planting-Soil Type : Existing, on-site surface soil, with the duff layer, if any, retained ; and stockpiled on-site; modified to produce viable planting soil. Using preconstruction soil analyses and materials specified in other articles of this Section, amend existing, on-site surface soil to become planting soil complying with the following requirements:
  - 1. Particle Size Distribution by USDA Textures: Classified as sandy loam loam silt loam loamy sand or sand soil according to USDA textures.
  - 2. Percentage of Organic Matter: Minimum 6 percent by volume.
  - 3. Soil Reaction: pH of 6 to 7 .
  - 4. CEC of Total Soil: Minimum 7 meq/100 mL at pH of 7.0 .
  - 5. CEC of Clay Fraction: Maximum 15 meq/100 mL at pH of 7.0 .

## SECTION 32 91 15- SOIL PREPARATION (PERFORMANCE SPECIFICATION)

- B. Planting-Soil Type : Imported, naturally formed soil from off-site sources and consisting of sandy loam loam silt loam loamy sand or sand soil according to USDA textures; and modified to produce viable planting soil. Amend imported soil with materials specified in other articles of this Section to become planting soil complying with the following requirements:
1. Sources: Take imported, unamended soil from sources that are naturally well-drained sites where topsoil occurs at least 4 inches deep, not from agricultural land, bogs, or marshes; and that do not contain undesirable organisms; disease-causing plant pathogens; or obnoxious weeds and invasive plants including, but not limited to, quackgrass, Johnsongrass, poison ivy, nutsedge, nimblewill, Canada thistle, bindweed, bentgrass, wild garlic, ground ivy, perennial sorrel, and brome grass.
  2. Additional Properties of Imported Soil before Amending: Minimum of 4 percent organic-matter content, friable, and with sufficient structure to give good tilth and aeration. Clean soil to be of the following:
    - a. Unacceptable Materials: Concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
    - b. Unsuitable Materials: Stones, roots, plants, sod, clay lumps, and pockets of coarse sand that exceed a combined maximum of 8 percent by dry weight of the imported soil.
    - c. Large Materials: Stones, clods, roots, clay lumps, and pockets of coarse sand exceeding 2 inches in any dimension.
  3. Percentage of Organic Matter: Minimum 6 percent by volume.
  4. Soil Reaction: pH of 6 to 7 .
  5. CEC of Total Soil: Minimum 7 meq/100 mL at pH of 7.0 .
  6. CEC of Clay Fraction: Maximum 15 meq/100 mL at pH of 7.0 .
  7. Soluble-Salt Content: 5 to 10 dS/m measured by electrical conductivity.
- C. Planting-Soil Type : Manufactured soil consisting of manufacturer's basic topsoil, sandy loam according to USDA textures, blended in a manufacturing facility with sand, stabilized organic soil amendments, and other materials as specified in other articles of this Section to produce viable planting soil.
1. Basic Properties: Manufactured soil shall not contain the following:
    - a. Unacceptable Materials: Concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
    - b. Unsuitable Materials: Stones, roots, plants, sod, clay lumps, and pockets of coarse sand that exceed a combined maximum of 5 percent by dry weight of the manufactured soil.
    - c. Large Materials: Stones, clods, roots, clay lumps, and pockets of coarse sand exceeding 1-1/2 inches in any dimension.
  2. Percentage of Organic Matter: Minimum 6 percent by volume.
  3. Soil Reaction: pH of 6 to 7 .
  4. CEC of Total Soil: Minimum 7 meq/100 mL at pH of 7.0 .

PART 3 - EXECUTION

3.1      GENERAL

- A.    Place planting soil and fertilizers according to requirements in other Specification Sections.
- B.    Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in planting soil.
- C.    Proceed with placement only after unsatisfactory conditions have been corrected.

3.2      PLACING MANUFACTURED PLANTING SOIL OVER EXPOSED SUBGRADE

- A.    General: Apply manufactured soil on-site in its final, blended condition. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.
- B.    Subgrade Preparation: Till subgrade to a minimum depth of 4 inches . Remove stones larger than 2 inches in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
  - 1.    Apply approximately half the thickness of planting soil over prepared, loosened subgrade. Mix thoroughly into top 2 inches of subgrade. Spread remainder of planting soil.
- C.    Application: Spread planting soil to total depth of 4 inches , but not less than required to meet finish grades after natural settlement. Do not spread if soil or subgrade is frozen, muddy, or excessively wet.
  - 1.    Lifts: Apply planting soil in lifts not exceeding 8 inches in loose depth for material compacted by compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- D.    Compaction: Compact each lift of planting soil to 75 to 82 percent of maximum Standard Proctor density according to ASTM D 698.
- E.    Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.3      BLENDING PLANTING SOIL IN PLACE

- A.    General: Mix amendments with in-place, unamended soil to produce required planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.
- B.    Preparation: Till unamended, existing soil in planting areas to a minimum depth of 4 inches . Remove stones larger than 3 inches in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
- C.    Mixing: Apply soil amendments , except compost, and fertilizer, if required, evenly on surface, and thoroughly blend them into full depth of unamended, in-place soil to produce planting soil.

DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 32 91 15- SOIL PREPARATION (PERFORMANCE SPECIFICATION)

1. Mix lime and sulfur with dry soil before mixing fertilizer.
  2. Mix fertilizer with planting soil no more than seven days before planting.
- D. Compaction: Compact blended planting soil to 75 to 82 percent of maximum Standard Proctor density according to ASTM D 698.
- E. Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.4 APPLYING COMPOST TO SURFACE OF PLANTING SOIL

- A. Application: Apply compost component of planting-soil mix to surface of in-place planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.
- B. Finish Grading: Grade surface to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.5 PROTECTION

- A. Protection Zone: Identify protection zones according to Section 015639 "Temporary Tree and Plant Protection."
- B. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:
1. Storage of construction materials, debris, or excavated material.
  2. Parking vehicles or equipment.
  3. Vehicle traffic.
  4. Foot traffic.
  5. Erection of sheds or structures.
  6. Impoundment of water.
  7. Excavation or other digging unless otherwise indicated.
- C. If planting soil or subgrade is overcompacted, disturbed, or contaminated by foreign or deleterious materials or liquids, remove the planting soil and contamination; restore the subgrade as directed by Architect and replace contaminated planting soil with new planting soil.

3.6 CLEANING

- A. Protect areas adjacent to planting-soil preparation and placement areas from contamination. Keep adjacent paving and construction clean and work area in an orderly condition.
- B. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated.
1. Dispose of excess subsoil and unsuitable materials on-site where directed by Owner.



DIVISION 1: GENERAL REQUIREMENTS      PROJECT: RONCALLI DEMOLITION  
SECTION 32 91 15- SOIL PREPARATION (PERFORMANCE SPECIFICATION)

END OF SECTION 329115

SECTION 329213 - NATURAL AREA SEEDING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: includes all labor and materials required to install seed in the natural area as described in contract documents.
- B. The General Conditions, the Supplementary General Conditions, and the General Requirements are a part of the requirements of this section.

1.2 SUBMITTALS

- A. Provide: written instructions on maintenance requirements. Submit instruction to Architect for forwarding to Owner's custodian.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Seed: by PLS lb. current testing.
  - 1. SPECIES/PERCENTAGE
    - a. Native Blue Grama - 75%
    - b. Galleta - 10%
    - c. Side Oats Grama - 5%
    - d. Western Wheat Grass - 5%
    - e. Native Buffalo Grass - 5%
  - 2. Purchase seeds which bear this season's certification of weight, purity, and germination from a reputable seed company.
  - 3. Seed mixture shall be 90% purity and 85% minimum germination.
- B. Top dressing:
  - 1. Cellulose wood fiber. Fiber shall be dyed green if approved method is hydro-seeded.
  - 2. Clean, seed-free hay
  - 3. Threshed straw of wheat, rye, oats, or barley.
  - 4. Or approved equivalent

PART 3 - EXECUTION

3.1 PREPARATION

A. Protection

1. Take care and preparation in work to avoid conditions which will create hazards. Post signs or barriers as required.
2. Provide adequate means for protection from damage through excessive erosion, flooding, heavy rains, etc. Repair or replace damaged areas.

B. Site Preparation:

1. Do not commence work of this section until grading and site preparation has been completed and approved.
2. Loosen area 4" deep and cultivate to properly break up clods and lumps.
3. After cultivation, rake area to remove clods, rocks, weeds, roots, and debris. Perform grading and shaping refinements to bring surface to true uniform planes free from irregularities and to provide drainage and proper slope to catch basins.
4. Just prior to seeding, fertilize natural areas with specified material at 15 lbs/sq. ft.
5. After natural areas have been fertilized, rototill or disk into the top 4" of soil.
6. Rake or scarify and cut or fill irregularities that develop as required and again roll until area is true and uniform, free from lumps, depressions, and irregularities.

3.2 INSTALLATION

A. Seeding:

1. After all natural areas are graded, experienced persons shall sow seed with adequate equipment.
2. Use a grassland drill that is designed to sow seed properly.
3. Drill a maximum of a 3".
4. Plant at a rate indicated on drawings.
5. Seed no later than May.

B. Top dressing:

1. After sowing seed in, gently cover area evenly with top dressing at rate of two 4 cu. ft. bales per 1000 sq. ft. of area or a light layer of straw/hay mulch at a rate of 1 to 2 tons per acre.
2. Crimping of the straw with a "dull" bladed disk where needed on slopes 3:1 or greater.

C. After top dressing:

1. Thoroughly water seeded areas, if possible.

3.3 CLEANING

- A. Upon completion: of planting operation, clear site of debris, superfluous materials, and equipment, all of which shall be entirely removed from premises.

3.4 PROTECTION

- A. Protect seeded areas: against traffic or other uses immediately after seeding is completed by placing adequate warning signs and barricades.

END OF SECTION 329213



AllPhaseEnvironmental.com  
719-545-0375

November 4, 2024

Attn: Pueblo School District #60  
315 W. 11<sup>th</sup> Street  
Pueblo, CO 81003  
719-549-7100

RE: Asbestos Abatement/Environmental Control Specification  
District #60 – Roncalli Stem Academy  
All-Phase Environmental Project No. #24-5808

To Whom it may concern:

All-Phase Environmental Consultants, Inc. (APEC) is pleased to provide you with this asbestos abatement/environmental control project specification for the Roncalli Stem Academy Abatement/Demolition Project located at 4202 CO-78 – in Pueblo, Colorado. The specification document was prepared based on the documentation review of previous original 1989 Asbestos AHERA Inspection Binder, Bond work, additional re-inspections performed every 3 years, as well as the All-Phase Environmental Consultants Asbestos Inspection for Demolition that was performed from August 12<sup>th</sup> through September 16, 2024. Based on the provided site information and sampling and analysis, friable and non-friable asbestos-containing materials (ACMs) were identified at the subject property.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the document or if APEC can be of further assistance, please call 719-545-0375.

Sincerely,

All-Phase Environmental Consultants, Inc.

A handwritten signature in blue ink, appearing to read "Logan Greenfield", is written over a horizontal line.

Logan Greenfield

Colorado Asbestos Project Designer  
#20715

**ASBESTOS ABATEMENT SPECIFICATIONS**

**RONCOLLI STEM ACADEMY BUILDING  
4202 CO-78  
PUEBLO, COLORADO**

**All-Phase Environmental Consultants, Inc.**

**Project No. 24-5808**

**September 16, 2024**

***Prepared for:***

**School District #60 – Pueblo  
315 W. 11<sup>th</sup> Street  
Pueblo, Colorado 81001**

***Prepared by:***



721 W. 9<sup>th</sup> Street  
Pueblo, Colorado 81003  
Tel: 719-545-0375  
Fax: 719-542-2807  
[logan@allphaseenvironmental.com](mailto:logan@allphaseenvironmental.com)  
[brandice@allphaseenvironmental.com](mailto:brandice@allphaseenvironmental.com)

## **ACRONYMS AND ABBREVIATIONS**

ACM	asbestos-containing materials
AHERA	Asbestos Hazard Emergency Response Act
AMS	air-monitoring specialist
APEC	All-Phase Environmental Consultants, Inc.
CABI	Colorado Asbestos Building Inspector
CDPHE	Colorado Department of Public Health and Environment
Contractor	Contractor awarded the bid
EPA	Environmental Protection Agency
GAC	General Abatement Contractor
HEPA	High-Efficiency Particulate Air
OSHA	Occupational Safety and Health Administration
Owner	State of Colorado
PCM	Phase Contrast Microscopy
TEM	Transmission Electron Microscopy

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

## **INTRODUCTION/PROJECT DESCRIPTION**

### Project Description:

Asbestos Abatement/Environmental Control Specification  
Pueblo School District #60 – Roncalli Stem Academy  
All-Phase Environmental Project No. #24-5808  
Bidding Documents prepared by APEC.

All-Phase Environmental Consultants, Inc. (APEC) was contracted by Pueblo School District #60 (Owner) to prepare a Bid Specification document for the complete abatement of asbestos-containing materials (ACMs) and other Regulated Building Materials (RBM) from the Roncalli Stem Academy Building. The specifications provide details regarding the location and extent of identified ACMs, removal methods, and regulatory requirements for asbestos abatement. Asbestos-containing materials were identified during a building inspection conducted by APEC and previous inspections conducted by Advantage Environmental, RHL Consultants and Versar (see attachments). The structure is planned for demolition; therefore, all friable and non-friable ACMs must be removed from the entire interior area of the entire existing structure (Exhibit 5). Additionally, all RBMs, i.e. fluorescent bulbs, mercury thermostats, PCB ballast shall be removed per OSHA Standard 29 CFR 1910.120 and others as deemed necessary.

***Specifications prepared by: Logan Greenfield, License #20715 (Colorado).***

***Specifications reviewed by: Brandice N. Eslinger, License #5494 (Colorado).***



## Table of Contents

<b>SECTION 1 – NOTICE TO BIDDERS</b>	<b>1</b>
<b>1000 Bidding Requirements</b>	<b>1</b>
1001 Pre-Bid Walkthrough:	3
1002 Site Investigation:	3
1003 Patents:	4
1004 Discrepancies:	4
1005 Modification and Withdrawal of Bids:	4
1006 Bonding Requirements:	4
1007 Licenses and Insurance Requirements:	5
1008 Qualifications:	5
<b>1100 Definitions</b>	<b>6</b>
1101 Definitions Relative to Asbestos Abatement:	7
<b>1200 Scope of Work</b>	<b>11</b>
1201 Table 1: Interior (ACM Abatement – greater than 1%):	11
1202 Additional Interior ACM Specifications	13
<b>1300 Interior (OSHA Regulated – less than or equal to 1%):</b>	<b>14</b>
1301 Potential Hazardous Materials (GAC to Verify and Remove):	14
<b>1400 Additional Work/Structure Demolition</b>	<b>15</b>
<b>1500 Completion Schedule</b>	<b>16</b>
1501 Bid Check List:	16
<b>1600 Proposed Sequence of Work</b>	<b>19</b>
<b>1700 Applicable Requirements and Guidelines</b>	<b>21</b>
1701 General Requirements:	21
1702 Specific Regulations:	21
1703 Copies of Standards:	22
1704 Abbreviations and Names:	23
<b>1800 Submittals, Notices, Codes and Applicable Regulations &amp; Standards</b>	<b>25</b>
1801 Related documents:	25
1802 Summary:	25
1803 Codes and Regulations:	25
1804 Standards:	27
1805 Notices:	28
1806 Permits:	28
1807 Variances:	28
1808 Licenses:	29
1809 Posting and Filing of Regulations:	29
1810 Submittals:	29
1811 Stop Work:	29
1812 Site Use:	30
<b>1900 Emergency Planning</b>	<b>31</b>
 <b>SECTION 2 - MATERIALS AND EQUIPMENT</b>	 <b>32</b>
<b>2000 Abatement Materials</b>	<b>32</b>
2001 General:	32
2002 Removal Chemicals:	33
2003 Lockdown:	33
<b>2100 Abatement Equipment</b>	<b>34</b>
2101 General:	34
2102 Removal Equipment:	35

<b>SECTION 3 - EXECUTION</b>	36
<b>3000 Preparation of Work Areas</b>	36
3001 General Requirements:	36
3002 Worker Decontamination Area:	38
3003 Waste Container Pass-Out Airlock:	39
3004 Maintenance of the Negative Pressure Enclosure:	40
3005 Emergency Exits:	41
3006 Commencement of work shall not occur until:	41
<b>3100 Workplace Entry and Exit Procedures</b>	42
3101 General Requirements:	42
3102 Worker Protection Procedures during Entry and Exit:	42
<b>3200 Waste Container Pass-out Procedures</b>	43
3201 Inside Team:	43
3202 Outside Team:	43
<b>3300 Personal Protection Requirements</b>	44
3301 General:	44
3302 Training:	44
3303 Respiratory Protection:	45
3304 Protective Clothing:	46
3305 OSHA Personals:	46
<b>3400 Removal Procedures</b>	47
3401 Class I Asbestos Removal:	47
3402 Class I Asbestos Removal (Glovebag Procedures for TSI-if applicable):	47
3403 Class II Asbestos Removal:	50
3404 Mini-Containment Procedures (if applicable):	51
<b>3500 Clean-up Procedure</b>	53
3501 Air Monitoring:	54
3502 Work Area Isolation:	54
3503 Work Area Airborne Fiber Count:	55
3504 Work Area Clearance:	55
3505 Inside Work Area:	55
3506 Outside Work Area:	55
3507 Effect on Contract Sum:	56
3508 Analytical Methods:	57
3509 General:	57
3510 Before Start of Work:	57
3511 Sample cassettes:	57
3512 Sampling sensitivity in the table below refers to:	58
3513 Base Line	58
3514 Daily:	59
3515 Laboratory Testing:	60
3516 Written Reports:	60
3517 Personnel Monitoring:	60
3518 Additional Testing:	60
<b>3600 Visual Clearance Inspections and Final Air Clearance Sampling</b>	61
3601 Visual:	61
3602 Air:	61
3603 Final Air Requirements:	62
<b>3700 Waste Disposal Procedures</b>	63
3701 Disposal Bags:	63
3702 Transportation to the Landfill:	64
3703 Disposal at the Landfill:	65
<b>3800 Release and/or Re-establishment of the Regulated Area</b>	66
<b>SECTION 4 – WASTE</b>	67
<b>4000 Hazardous Waste Management</b>	67

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

<b>4001</b>	<b>Description of the Work:</b> .....	<b>67</b>
<b>4002</b>	<b>Codes and Regulations:</b> .....	<b>67</b>
<b>4003</b>	<b>Contractor Responsibility:</b> .....	<b>67</b>
<b>4004</b>	<b>Federal Requirements:</b> .....	<b>67</b>
<b>4005</b>	<b>DOT: U. S. Department of Transportation, including but not limited to:</b> .....	<b>67</b>
<b>4006</b>	<b>Hazardous Waste:</b> .....	<b>68</b>
<b>4007</b>	<b>Hazardous Waste Packaging and Labeling:</b> .....	<b>68</b>
<b>4008</b>	<b>Temporary Storage:</b> .....	<b>69</b>
<b>4009</b>	<b>Removal of Hazardous Wastes:</b> .....	<b>69</b>
<b>4010</b>	<b>Recycling and Recovery:</b> .....	<b>70</b>
<b>4011</b>	<b>Back charges:</b> .....	<b>70</b>

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

## **ATTACHMENTS**

Exhibit 1 - Supporting Asbestos AHERA Information

Exhibit 2 – Supporting Asbestos Inventory Map – RHL

Exhibit 3 – Combined Material Sampling Log – 1989 - 2006

Exhibit 4 – Demolition Inspection Report – All-Phase Environmental 2024

Exhibit 5 – All-Phase Environmental – ACM Location Diagrams

## **SECTION 1 – NOTICE TO BIDDERS**

### **1000 Bidding Requirements**

1. Project: Roncalli Stem Academy – Abatement/Demolition
2. Location: 4202 CO-78, Pueblo, Colorado
3. Owner: Pueblo School District #60
4. Drawings and Specifications will be on file at the APEC office located at 721 W. 9<sup>th</sup> St. or HGF Architects, Inc. office located at 2602 N. Elizabeth St, Pueblo, CO.
5. Contractual Documents and any other detailed instructions will be on file at the Pueblo School District #60 facilities office located at 1902 Montezuma Rd., Pueblo, CO.
6. All dimensions, quantities or areas provided in the Scope of Work are approximate and are only included to assist Bidder in determining the amount of ACM and other Regulated Building Materials (RBM) designated for abatement/environmental control. Each bidder is responsible for accurately determining the amount of ACM and RBM included in the Scope of Work.
7. Prior to conducting work, the General Abatement Contractor herein after referred to as “contractor” will develop and submit to Owner representatives for review and approval, an Abatement Work Approach and a Project Design will be completed by APEC in accordance with State of Colorado Regulation No. 8, Control of Hazardous Air Pollutants, Part B - Asbestos, Section III.C.1. The Project Design must be developed by a certified State of Colorado Project Designer. Submit, to the Owners’ Representative, shop drawings for layout and construction of decontamination enclosure system and barriers for isolation of the work area(s), as appropriate. Drawings shall indicate the location of individual HEPA filtration systems and their respective exhausting locations. All requirements must be provided to APEC prior to the start of work.
8. Verbal instructions are not valid until followed by written confirmation.
9. During the Work, APEC will provide Request for Information (RFI) forms to the GAC. This form is provided in order to properly document any questions that arise during the abatement project. All RFI Forms should be submitted to APEC and will be recorded in the RFI project log. **It is expected that all questions and/or concerns be addressed and handled with an addendum before the issue of contract documents.**
10. Following the Mandatory Pre-Bid Meeting and walkthrough, the building will be available for additional inspection only by appointment through APEC personnel coordination.

11. Contractors will be allowed to perform work on Saturday or Sunday with written approval by the Owner representative and will insure there is no smoking, consumption of alcoholic beverages, nor improper language or behavior at the work site. Saturday and Sunday work are permitted.
12. Provide shift work overtime and/or crew sizes as needed to meet the construction schedule set by Owner and Owner representative.
13. Contractor shall provide material hoisting, personnel hoisting and scaffolding as required for Contractor's work effort.
14. Any environmental (ambient) testing and final clearance testing will be provided and paid for by the Owner. Any additional testing, documentation and certification, as required, shall be provided and paid for by the Contractor. ***Any expense for retesting failed tests is the Contractor's expense.*** OSHA worker samples and pumps will be provided by the Awarded Contractor.
15. Contractor shall include mobilization move-ins as required.
16. Bidders shall include any costs associated with the interface and coordination of their work.
17. The contractor shall apply for, and pay for, all permits specifically required by this scope of work. The contractor will arrange for all inspections required for this work.
18. The contractor is responsible for receiving, unloading, handling, hoisting and staging their own material.
19. Daily clean-up will be the responsibility of this Contractor.
20. Onsite office and storage facilities including telephone and hook-up charges will be the Contractor's responsibility.

### **1001 Pre-Bid Walkthrough:**

Please refer to District #60's Invitation to Bid Document for the MANDATORY Pre-Bid Meeting and walkthrough date, time and location.

The bid shall include the total costs to remove and dispose of all asbestos-containing materials (ACM's), removal/control/disposal of other identified hazardous and/or non-hazardous materials described in this document and included in the ACM information and previous ACM survey reports that are attached to this document as Exhibits 1 - 5.

### **1002 Site Investigation:**

By submitting a bid, the Contractor acknowledges that they have investigated and satisfied themselves as to: a) the conditions affecting the work, including, but not limited to, physical conditions of the site which may bear upon site access, handling and storage of tools and materials, access to water, electricity or other utilities, or other conditions affecting performance of required activities; b) the character and quantity of all surfaces and substrate materials or obstacles to be encountered in so far as this information is reasonably ascertainable from an inspection of the site, exploratory work done by the Owner or designated consultants, and information presented in this specification document; c) the environmental condition, including the presence, location, and condition of asbestos-containing materials and hazardous and non-hazardous materials at the site; and d) the schedule of the project. Any failure by the Contractor to acquaint themselves with available information will not relieve them from the responsibility for estimating properly the difficulty or cost of successfully performing the work.

***The Contractor shall not rely on the material quantities indicated in this document as the total basis for the bid price. All quantities indicated herein are approximate and intended to alert the Contractor to the general size and scope of the project. No increase in contract cost will be considered due to the Contractor's failure to physically verify all quantities of the ACMs or hazardous and non-hazardous materials specified by this document for removal.***

The Contractor shall include in their bid price the total fee to abate and dispose of the ACMs listed along with disposal of the hazardous and non-hazardous materials pursuant to the removal and disposal methods described herein.

The Owner is not responsible for any conclusions or interpretations made by the Contractor on the basis of the information made available by the Owner.

No bids will be accepted from any Contractor who has not inspected the job site at the Mandatory Pre-bid meeting, either in person or through a qualified designated representative.

**1003 Patents:**

By submitting a bid on this project, the Contractor acknowledges and accepts full responsibility for compliance with patent or licensing requirements on any equipment, procedures or systems utilized on this project.

**1004 Discrepancies:**

Should a Bidder find discrepancies in the plans and/or specifications, or should he be in doubt as to the meaning or intent of any part thereof, they must, no later than Five (5) days prior to the bid submittal, request clarification from the Owner's Representative. Discrepancies regarding conflicts between the Contract Documents and applicable Federal, State or local regulations or requirements shall be included herein. Failure to request such clarification is a waiver of any claim by the Bidder for expense made necessary by reason of later interpretation of the Contract Documents by the Owner's Representative.

Explanations desired by a prospective Bidder regarding the environmental specifications or other bid documents shall be requested from the Owner's Representative no later than Five (5) days prior to the bid submittal.

All such requests for clarifications shall be directed to the Owner's Representative in writing, fax, or e-mail to:

Logan Greenfield  
Oversight/Project Supervisor  
All-Phase Environmental Consultants, Inc.  
721 W. 9<sup>th</sup> Street, Pueblo, CO 81003  
719-250-0036 direct  
719-542-2807 fax  
[logan@allphaseenvironmental.com](mailto:logan@allphaseenvironmental.com)

**1005 Modification and Withdrawal of Bids:**

Reference District #60 Documents

**1006 Bonding Requirements:**

Reference District #60 Documents.



**1007 Licenses and Insurance Requirements:**

By initiating work on this project, the Contractor acknowledges and accepts full responsibility for advising their current insurance carrier(s) of the fact that he is engaging in asbestos abatement work. The Contractor shall provide one copy of project specifications to their insurance carrier upon award of contract. The verification of this submittal shall be included in project close-out documents.

All bidders shall show proof of and maintain required insurance (Reference Contract Documents).

All Bidders must show proof that their workers are properly trained, certified, and licensed to perform the work in the State of Colorado. Such proof will be submitted for review at least one business day prior to start of work to:

HGF Architects, Inc.  
2602 N. Elizabeth St.  
Pueblo, CO 81003

and:

Attn: Logan Greenfield and/or Brandice Eslinger  
All-Phase Environmental Consultants, Inc.  
721 W. 9<sup>th</sup> Street, Pueblo, Colorado 81003

**1008 Qualifications:**

**All Bidders shall submit proof of a valid State of Colorado Asbestos Abatement Contractors License with the Bid Proposal.**

**After Notice of Award and prior to Contract Execution, along with any required bonds and insurances**, Bidders shall submit a statement signed by an officer of the company, containing the following information:

A record of any citations issued within the last 5 years by Federal, State or local regulatory agencies relating to asbestos abatement activity. Include projects, dates, and resolutions.

A list of penalties incurred through non-compliance with asbestos abatement project specifications including liquidated damages, overruns in scheduled time limitations and resolutions.

Situations in which an asbestos related contract has been terminated, including projects, dates and reasons for termination.

A listing of any asbestos-related legal proceedings/claims in which the Contractor (or employees scheduled to participate in this project) has participated or is currently involved. Include descriptions of role, issuer and resolution to date.

## **1100 Definitions**

**General:** Definitions contained in this Article are not necessarily comprehensive but are general to the extent that they are not defined more explicitly elsewhere in the Contract Documents.

**Regulations:** The term "regulations" includes laws, statutes, ordinances, rules, regulations, requirements, guidance documents and similar guidelines and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the work, whether they are lawfully imposed by authorities having jurisdiction or not.

**Furnish:** The term "furnish" is used to mean "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations."

**Install:** The term "install" is used to describe operations at project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations."

**Provide:** The term "provide" means "to furnish and install, complete and ready for the intended use."

**Project Site:** The space available to the Contractor for performance of the work, either exclusively or in conjunction with others performing other construction as part of the project. The extent of the project site will be identified at the pre-bid walkthrough.

**Testing Laboratory:** A "testing laboratory" is an entity certified by the appropriate Federal, State and/or local agencies engaged to perform specific analysis of asbestos bulk or air samples, either at the project site, or elsewhere.

**Contractor:** The Contractor provides permits, notifications, labor, materials and equipment necessary to complete the scope of work described in the Contract documents.

**Owners' Representative:** The Owners' Representative is All Phase Environmental Consultants, Inc. or any employee of All-Phase Environmental who will represent the Owner during abatement and until final completion of the work. All-Phase Environmental will advise and consult with the Owner. The Owners' instructions to the Contractor will be forwarded through the Owners' Representative.

**General Superintendent:** This is the Contractor's Representative at the work site. This person shall be the Competent Person required by OSHA and EPA regulations and licensed as a supervisor in Colorado.

**Competent Person:** One who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategies and corrective measures to eliminate asbestos exposure.

## **1101 Definitions Relative to Asbestos Abatement:**

**Accredited or Accreditation:** (when referring to a person or laboratory): A person or laboratory accredited in accordance with section 206 of Title II of the Toxic Substance Control Act (TSCA) and other Federal, State and local laws applicable to the work.

**Abatement:** An act which is intended to reduce, eliminate or encapsulate asbestos-containing materials.

**Adequately Wet:** To sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos- containing material, then that material has not been adequately wetted. However, the absence of visible emissions is not sufficient evidence of being adequately wet.

**Air Monitoring:** The process of measuring the fiber content of a specific volume of air.

**Amended Water:** Water to which a surfactant (wetting agent) has been added to increase the ability of the liquid to penetrate ACM.

**Asbestos:** The asbestiform minerals are chrysotile, amosite crocidolite, anthophyllite, actinolite and tremolite. For purposes of determining respiratory and worker protection, the asbestiform minerals and any of these materials that have been chemically treated and/or altered shall be considered as asbestos.

**Asbestos-Containing Material (ACM):** Any material containing more than one percent of asbestos as determined by polarized light microscopy methods.

**Asbestos-Containing Building Material (ACBM):** Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on structural members or other parts of a building.

**ACM Waste:** Mill tailings or any waste that contains commercial asbestos and is generated by a source subject to the provisions of 40 CFR 61. This term includes removed asbestos-containing material, containment sheeting, filters from air filtration machines, disposable removal equipment and clothing contaminated with asbestos, and disposal bags or other similar packaging containing asbestos.

**ACM Debris:** Pieces of ACM that can be identified by color, texture, or composition, and dust, if the dust is determined by an accredited inspector to be ACM.

**Authorized Person:** A person authorized by Owners' Representative and General Superintendent and is required by work duties to be present in the regulated area.

**Breathing Zone:** A hemisphere forward of the shoulder with a radius of approximately 6 to 9 inches.

**Category I Non-friable ACM:** Asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos that when dry cannot be crumbled, pulverized or reduced to powder by hand pressure.

**Category II Non-friable ACM:** Any material, excluding Category I non-friable ACM, containing more than one percent asbestos that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure.

**Class I asbestos work:** Activities involving the removal of TSI and surfacing ACM.

**Class II asbestos work:** Activities involving the removal of ACM which is not TSI or surfacing ACM. This includes, but is not limited to, the removal of asbestos- containing wallboard system, floor tile, sheet vinyl, roofing materials, siding shingles, and construction mastics.

**Class III asbestos work:** Repair and maintenance operations, where ACM, including thermal system insulation and surfacing material, is likely to be disturbed.

**Critical Barrier:** One or more layers of plastic sealed over all openings into a work area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a work area from migrating to an adjacent area.

**Decontamination Area:** An enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment that are contaminated with asbestos.

**Demolition:** The wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of asbestos products.

**Disposal Bag:** A properly labeled 6 mil thick leak-tight plastic bag used for transporting ACM waste from the regulated area to the disposal site.

**Encapsulant:** A material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent release of fibers.

**Bridging encapsulant:** An encapsulant that forms a discrete layer on the surface of an in-situ asbestos matrix.

**Penetrating encapsulant:** An encapsulant that is absorbed by the in-situ asbestos matrix without leaving a discrete surface layer.

**Removal encapsulant:** A penetrating encapsulant specifically designed to minimize fiber release during removal of asbestos-containing materials rather than for in-situ encapsulation.

**Filter:** A media component used in respirators or ventilation equipment to remove solid fibers and particles from the processed air.

**Friable ACM:** Material containing more than one percent asbestos that when dry can be crumbled, pulverized, or reduced to powder by hand pressure.

**Glove bag:** An impervious bag (typically constructed with 6 mil polyethylene plastic) designed to be affixed around an object containing ACM (typically TSI) with inward projecting long sleeve gloves which are used for the handling of tools and performing ACM removal.

**HEPA Filter:** A High Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in diameter.

**HEPA Filtration System:** An air ventilation system utilizing HEPA filters and may or may not utilize a pressure differential relative to the work zone exterior.

**HEPA Filter Vacuum Collection Equipment (or Vacuum Cleaner):** High efficiency particulate air filtered vacuum collection equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers of 0.3 microns or larger.

**Negative Pressure Respirator:** A respirator in which the air pressure inside the respiratory-inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air pressure of the outside atmosphere.

**Owner:** Pueblo School District #60

**Permissible Exposure Limit (PEL):** The level at which employees must not be exposed to airborne asbestos fibers. The TWA limit is 0.1 f/cc.

**Protection Factor:** The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.

**Regulated Area:** An area demarcated by the Contractor where Class I, II, and III asbestos work is conducted, and any adjoining area where debris and waste from such asbestos work accumulate; and a work area within which airborne concentrations of asbestos, exceed or there is a reasonable possibility they may exceed the permissible exposure limit.

**Regulated Asbestos-Containing Material (RACM):** Regulated asbestos- containing material (RACM) means (a) Friable asbestos material. (b) Category I non-friable ACM that has become friable. (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by 40 CFR 61.

**Removal:** All operations where ACM is stripped from building components, substrates, and/or removed from the project site by demolition operations.

**Respirator:** A device to protect the wearer from the inhalation of harmful atmospheres.

**Surfacing material:** ACM material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing and other purposes).

**Surfactant:** A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.

Thermal System Insulation (TSI) material: ACM applied to pipes, fittings, boilers, breaching, tanks, ducts or other structural components to prevent heat loss or gain.

Time Weighted Average (TWA): The average concentration of a contaminant in air during a specific time period.

Transite: Cement asbestos products, e.g. shingle, pipe, panel.

Visible Emissions: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Waste Shipment Record: The shipping document (manifest), required to be originated and signed by the waste generator and used to track and substantiate the disposition of asbestos-containing waste material.

Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloth, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulant and afterwards thoroughly decontaminated or disposed of as asbestos-contaminated waste.

Working Day: Working day means Monday through Friday, excluding holidays.

## 1200 Scope of Work

This specification covers the abatement of exposure to asbestos hazards from building components at the project work site. It is the intent of the Contract Documents to describe the work necessary to complete the project.

The Contractor shall furnish all labor, materials, permits, notifications, insurance and equipment necessary for the total removal of all areas of ACM listed and ACM debris associated with those portions of the project site. The estimated quantities of ACM (summarized in Table 1) are intended to provide the contractor with a general size and scope of the project. **The Contractor shall visit the site to assess the exact quantities of ACM present as well as the extent of physical difficulty involved in its complete removal to a non-ACM substrate.** The Contractor shall consult the Proposed Sequence of Work for the general intent of this Contract Document. There will be an Owners' Representative (Project Monitor) available throughout all phases of the work.

The Contractor will seal off, in the internal work zones of the site, with 4 and 6 mil polyethylene critical and full containment barriers, erect a worker decontamination chamber with air locks, install a HEPA filtration system capable of changing all air in the full containment once each fifteen (15) minutes, and conduct comprehensive personal air sampling test during all phases of the work. The Contractor shall utilize full containment techniques, wet methods, and HEPA vacuums.

Some materials were not sampled during APEC's survey due to prior inspections and/or observations stating materials and areas that are confirmed ACM or Non-ACM. ACM materials are listed in the table below.

**1201 Table 1: Interior (ACM Abatement – greater than 1%):**

<b>Material Type</b>	<b>*General Location</b>	<b>Estimated Quantity</b>
Asbestos containing 9x9 VCT w/ asbestos containing mastic (includes mastic below all rubber seam runners in halls)	Throughout original construction area – not observed in west additions, Gym or Auxiliary Gym	54,770 +/- S.F.
Asbestos containing 12x12 VCT (Mastic ND)	Between West Addition and Trades Addition	815 +/- S.F.
Asbestos containing Mastic (12x12 VCT is ND)	West Addition	9,305 +/- S.F.
4"x4" Blue Ceramic Wall Tile Adhesive	In Restroom C7 in the Admin Office area	182 +/- S.F.
Adhesive on Blue Foam Panels	Tunnel walls that are directly on exterior foundation-east & west side	1,540 +/- S.F.
Laboratory Tables	Room 18	585 +/- S.F.

<b>Material Type</b>	<b>*General Location</b>	<b>Estimated Quantity</b>
Sink Coating - Black	Rooms 19 and 30	8 +/- S.F.
Fireproofing - Gym	Horizontal Structural Beams at Exterior Walls and on roof drain penetration points	3,215 +/- S.F.
Fireproofing – Original Construction Area	Horizontal Structural Beams at Exterior walls and main supports	6,939 +/- S.F.
TSI - Fittings	Mechanical Rooms, wall chases, tunnels and above ceilings	425 +/- Fittings
Vibration Isolators	Mechanical Rooms, Penthouse, Custodial closets and tunnels	180 +/- S.F. (~20)
Mat on Ducting	On venting of large Air Handlers in Penthouse above stage	400 +/- S.F.
Adhesive/Leveler of Rubber Floor Transitions	Located on Seams and Transitions in the Halls of the Original Construction	285 +/- S.F.
Tar Backing (beneath wood Floor in Gym)	Original Gym underlayment	10,200 +/- S.F.
Light Fixture Backing Paper	Original lights-observed in storage rooms, janitor closets and mechanical rooms	20 Fixtures +/-
Pebble Pattern Linoleum	Sink Counter Cover located in storage room C48 of Room 19	14 +/- S.F.
Exterior Sealant (caulking)	Around narrow windows – seal between window frame and brick – located on the east and west of original construction	84 +/- S.F. (~14 windows)
Transite Rock Facia	Located on the exterior at the roof line of the Trades Addition	710 +/- S.F.
**Transite Piping - Vents	Located below slab and observed in the Gym and Auditorium-mix box in C30	895 +/- L.F. (12" & 24")
Black Mastic – Wood Base	Wooden baseboards surrounding the Gym	5 +/- S.F.

**\*Due to the size of the building and the amount of ACM present, all material locations can be found on Exhibit 5**

**\*\*Quantity is based on known locations. Not all Locations were able to be found on as-build or in the field and piping is assumed to be in other areas of the north original build.**

S.F. = Square Feet L.F. = Linear Feet TBV = To Be Verified by Contractor

**--Please Review Section 1300 on the next page for additional ACM information**



## 1202 Additional Interior ACM Specifications

*Once work has started in the area within the building, any entry and work performed within the building requires appropriate personal protective equipment, appropriate work practices and engineering controls.*

- All associated overspray with confirmed ACM that is location above and/or behind any ceiling or wall is considered an ACM and must be abated
- All Ceiling tiles within 6 feet of fireproofing will be removed as an ACM due to acoustical spray existing directly above and removing these damages the material.
- Roofing Tar and Tar impregnated Vapor Barrier was found to be **positive** on the main Deck and parapet walls; however, this material was assessed as non-friable and therefore can stay for demolition
- All water penetrations (between walls and floors) are to be removed and verified that no remaining TSI is present. TSI has been observed in the penetrations by APEC and can be seen in some “wet walls” between restrooms, above drop ceilings, in chases and in the tunnels. If the hard pack is near said penetration, it must be removed.
- Regarding the Transite piping that was observed on the as-builds, the north section of the maps is missing, and locations will not be known until demolition of the slab.
- Control and manage all materials and debris in accordance with the OSHA Standards 29 CFR 1910.1001 and 29 CFR 1926.1101, and other applicable federal, state and local regulations. Wastewater from the work must be filtered to a minimum of five (5) microns and discharged to the sanitary sewer.

The landfill receiving the asbestos-containing materials and/or asbestos contaminated materials or components must be notified of the asbestos content and conditions for proper disposal. All manifests are required to be submitted at the end of the abatement.

\*Based on multiple surveys data (see Exhibits 1-5)

**1300 Interior (OSHA Regulated – less than or equal to 1%):**

Interior Surfacing Materials, located on walls and ceilings throughout the Original Construction area have been verified to be less than or equal to 1% by point counting method. Any OSHA Regulated Materials damaged during ACM abatement activities is required to be cleaned immediately and notated in the Abatement Contractors Log to guarantee said materials are not tracked throughout the jobsite or into permitted work areas. The owner's representative will be contacted, and a visual inspection of the damaged area will occur. This will not require a stop work of active abatement, unless the damage impedes the entrance/exit from the work areas. For additional OSHA Regulated Material information and locations, refer to ***Exhibit 4 – Demolition Inspection Report – All-Phase Environmental 2024.***

**1301 Potential Hazardous Materials (GAC to Verify and Remove):**

- PCB-containing ballasts from fluorescent light fixtures.
- Thermostats with mercury switches.
- Other un-inventoried Regulated Building Materials.

#### **1400 Additional Work/Structure Demolition**

In addition, the contractor doing asbestos abatement and RBM's outlined in this document, may bid and perform the entire structure demolition. However, specifications and requirements are not included in this document, structure demolition requirements will follow HGF Architects specifications.

All requests for clarifications regarding the structure demolition shall be directed in writing, or e-mail to:

Amy Hurtig-Smith  
Principal Architect  
HGF Architects, Inc  
2602 N. Elizabeth St.  
Pueblo, CO 81003  
719-543-7600 direct  
[asmith@hgfarch.com](mailto:asmith@hgfarch.com)

All specifications can be discussed during the walk through and issued as an addendum if applicable.

## 1500 Completion Schedule

The Contractor shall have access to the Work Areas to perform the work of this Contract as specified below. Deviations from the specified schedule must be submitted and approved by the Owners' Representative.

### **Phase 1---Asbestos/RBM Abatement & Transite Pipe:**

Estimated Project Duration: \_\_\_\_\_

\*Project requires all visuals and air clearances passed and work is complete to allow owner to demolish the structure. **Abatement/Demolition may not be performed simultaneously.**

## 1501 Bid Check List:

### **Unit Costs:**

Material	Cost per Square Foot/Linear Foot/Unit
Thermal System Insulation	
Pipe Insulation	
Elbow/Tee	
Transite Piping to include Fittings	
Spray-on acoustic ceiling texture	
Ceiling tiles (suspended)	
Ceiling tile mastic	
Wall and Ceiling systems (Plaster)	
Wall systems (textured Drywall)	
Wall panel mastic	
Floor tile and mastic	
Fire doors	
Chalkboards	

***\*The costs listed above are only for materials that may be encountered that have not been listed within the scope. The cost cannot be altered once GAC is chosen.***

Hourly Labor Cost

(Inclusive)

Supervisor \$ \_\_\_\_\_ Hour Worker \$ \_\_\_\_\_ Hour

\*\*All prices are inclusive of all required and appropriate materials, labor, equipment, tools, transportation, services, licenses, fees, permits, profit and overhead, etc., required by said documents to complete all divisions of the work.

**Base Scope Bid:**

Provide cost as lump sum for complete and full asbestos abatement/environmental control to include the **\*re-mobilization to removed Transite piping below slab**. Other RBM's removal are included in this pricing as indicated in this document. The complete abatement and RBM scope must include all disposal and/or recycling options.

***Please separate bid pricing as listed below:***

Base Scope ACM abatement: \_\_\_\_\_ Dollars

( \$ \_\_\_\_\_ )

\*Transite Pipe – Below Grade ACM abatement: \_\_\_\_\_ Dollars

( \$ \_\_\_\_\_ )

Base Scope RBM's removal: \_\_\_\_\_ Dollars

( \$ \_\_\_\_\_ )

Date: \_\_\_\_\_

Respectfully submitted: \_\_\_\_\_

Company: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Business Address: \_\_\_\_\_

City and State: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

## **Project Checklist**

Roncalli Stem Academy  
Pueblo, Colorado  
Environmental Abatement/Control Project

### **(Please Include with Bid Form)**

#### **Initial – Abatement Only**

1. Bid Form with Acknowledgment of Receipt of any Addenda \_\_\_\_\_
2. Review and Completion of all District #60 Document Requirements \_\_\_\_\_

Printed Name \_\_\_\_\_

Authorized Company Representative Signature \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

## **1600 Proposed Sequence of Work**

The Owner, Contractors, and Owners' Representative shall perform various activities to complete this Project. The general Sequence of Work is stated below and shall be repeated as necessary for each Work Area. The sequence may be altered with written approval by the Owners' Representative.

1. The Contractor shall prepare and submit all notices, permit applications, and project submittals prior to the start of the Work. If required by regulation, a Project Design (as described in AQCC Regulation No. 8 Part B Asbestos, III.C.) shall be developed by the Contractor and submitted as part of the project submittals.
2. The Contractor shall mobilize on-site, post abatement Permit and Project Design (if applicable), and construct all critical barriers applicable to the Work area. Surfaces on and around critical barrier locations shall be pre-cleaned to accommodate adhesion of barriers and duct tape. If temporary partitions or framing are required, these shall be installed prior to critical barrier installation.
3. The Contractor shall establish negative pressure in the Work area by installing and operating negative pressure differential equipment.
4. The Contractor shall build in place all temporary enclosures required for personnel decontamination unit and waste loadout unit. A view port (12"x 12" minimum) shall be installed in a location so that activities inside the work area can be viewed from outside the work area.
5. The Contractor shall perform pre-cleaning of surfaces where applicable and inspect those areas with the Owners' Representative.
6. The Contractor shall cover all fixed objects, as specified, where applicable.
7. The Contractor shall construct all containment barriers and engineering controls and inspect those areas with the Owners' Representative. If permanent enclosures are required, install these enclosures at this time.
8. The Contractor shall begin abatement in accordance with Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61, Subpart M), the requirements of State of Colorado Regulation No. 8, the OSHA Standards 29 CFR 1910.1001 and 29 CFR 1926.1101, and other applicable federal, state and local regulations, by removing and disposing of all ACM items, including flooring and fiberglass insulation on pipes, as asbestos contaminated waste.
9. The Contractor shall complete asbestos abatement and Project Decontamination as specified.
10. The Contractor and Owners' Representative shall visually inspect all Work Area surfaces.

11. The Contractor shall apply lockdown encapsulant to all Work area surfaces. After lockdown encapsulant has sufficiently dried, remove primary poly barrier and clean all surfaces. Critical barriers, Negative Air Pressure Differential Equipment, and Decontamination Units shall all remain in place and remain functional.
12. The Contractor and Owners' Representative shall visually inspect all surfaces in the work area.
13. The Owners' Representative shall collect final clearance air samples.
14. After acceptable clearance samples, the Contractor shall remove all temporary enclosures.
15. The Work includes the completion of a Post Abatement Walk through to identify incomplete and/or corrective action work. The Post Abatement inspection shall include representatives of the Contractor, Owner and Owners' Representative to identify the punch list and schedule for completion.
16. Contractor shall complete punch list work and demobilize. The contractor shall be responsible for completing punch list items one (1) week after completion of each individual phase or after a containment clearance.



## **1700            Applicable Requirements and Guidelines**

### **1701            General Requirements:**

All work under this contract shall be done in strict accordance with all applicable Federal, State and local regulations, standards and codes governing asbestos abatement (including removal, transportation and disposal), and any other trade work done in conjunction with the abatement.

By initiating work on this project, the Contractor is aware of and is knowledgeable of all current Federal, State and local regulations (including those listed below) affecting the work on this project. The act of initiating work on this project indicates that the Contractor is willing to solely accept responsibility for the adherence to all regulations and the enforcement of all personal protection and safety requirements. The Contractor further acknowledges willingness to solely accept responsibility for the defense and resolution of any claims, filed by any party, as they may relate to the work performed by the Contractor on this project.

Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owners' Representative for a decision before proceeding.

### **1702            Specific Regulations:**

Occupational Safety and Health Administration (OSHA).

Title 29 Code of Federal Regulations Section 1926.1101 - Construction Industry Standards for Asbestos.

Title 29 Code of Federal Regulations Section 1910.1001 - General Industry Standard for Asbestos.

Title 29 Code of Federal Regulations Section 1910.134 - General Industry Standard for Respiratory Protection.

Title 29 Code of Federal Regulations Section 1910.20 - Employee Exposure and Medical Records.

Title 29 Code of Federal Regulations Section 1910.1200 - Hazard Communication.

Environmental Protection Agency (EPA).

Title 40 Code of Federal Regulations Part 61 Subparts A and M (Revised Subpart M-11/20/90) - National Emission Standards for Hazardous Air Pollutants  
- Asbestos.

Hazardous Materials Transportation Act (Department of Transportation).

Title 49 Code of Federal Regulations parts 171-180.

State of Colorado Regulation No. 8, Control of Hazardous Air Pollutants, Colorado Air Quality Control Division.

**1703 Copies of Standards:**

Each entity engaged in construction of any part of the Project is required to be familiar with industry standards applicable to that entities' construction activity. Copies of applicable standards are not bound with the Contract Documents. Where copies of standards are needed for performance of a required construction activity, the Contractor shall obtain copies directly from the publication source. Although copies of standards needed for enforcement of requirements may be part of required submittals, the Owners' Representative reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

#### **1704 Abbreviations and Names:**

Trade association names and titles of general standards are frequently abbreviated. The following acronyms or abbreviations as referenced in Contract Documents are defined to mean the associated names. Names and addresses are subject to change, and are believed to be, but are not assured to be, accurate and up-to-date as of date of Contract Documents:

- AIA American Institute of Architects  
1735 New York Ave. NW  
Washington, DC 20006  
(202) 626-7474
- AIHA American Industrial Hygiene Association 475 Wolf Ledges Parkway  
Akron, OH 44311  
(216) 762-7294
- All-Phase Environmental Consultants, Inc.  
721 W. 9<sup>th</sup> Street  
Pueblo, Colorado 81003  
(719) 545-0375
- ANSI American National Standards Institute 1430 Broadway  
New York, NY 10018 (212) 354-3300
- ASTM American Society for Testing and Materials 1916 Race Street  
Philadelphia, PA 19103  
(215) 299-5400
- CFR Code of Federal Regulations  
Available from Government Printing Office:  
Washington, DC 20402  
(usually first published in Federal Register) (202) 783-3238
- DOT Department of Transportation  
400 Seventh St., SW Washington, DC 20509  
(202) 382-3949
- EPA Environmental Protection Agency 401 M. ST., SW  
Washington, DC 20460  
(202) 382-4000
- NIST National Institute of Standards and Technology (U.S. Department of Commerce)  
Gaithersburg, MD 20899  
(301) 975-4016

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

CDPHE Colorado Department of Public Health and Environment Air Pollution Control  
Division  
APCD-IE-B1  
4300 Cherry Creek Drive South Denver, CO 80246-1530  
(303) 692-3100

OSHA Occupational Safety & Health Administration (U.S. Dept. of Labor)  
Government Printing Office Washington, DC 20402  
(202) 783-3238

UL Underwriters Laboratory  
333 Pfingsten Rd.  
Northbrook, IL 60062  
(312) 272-8800

**1800 Submittals, Notices, Codes and Applicable Regulations & Standards**

**1801 Related documents:**

Drawings and general provisions of Contract, including General Conditions, Supplementary General Conditions, and other Division-1 Specification Sections, apply to this Section.

**1802 Summary:**

This Section sets forth governmental regulations and industry standards which are included and incorporated herein by reference and made a part of the specification. This Section also sets forth those notices and permits which are known to the Owner and which either must be applied for and received, or which must be given to governmental agencies before start of Work.

Requirements include adherence to Work practices and procedures set forth in applicable codes, regulations and standards.

Requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with codes, regulations, and standards.

**1803 Codes and Regulations:**

General Applicability of Codes and Regulations, and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to Work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The Contractor shall hold the Owner and Owners' Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

Federal Requirements which govern asbestos abatement Work or hauling and disposal of asbestos waste materials include but are not limited to the following:

OSHA: U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules  
Title 29, Part 1910, Section 1001 and  
Part 1926, Section 1101 of the  
Code of Federal Regulations

Respiratory Protection  
Title 29, Part 1910, Section 134 of the Code of Federal Regulations

Hazard Communication  
Title 29, Part 1910, Section 1200 of the Code of Federal Regulations

Construction Industry  
Title 29, Part 1926, of the Code of Federal Regulations

Access to Employee Exposure and Medical Records  
Title 29, Part 1910, Section 2 of the Code of Federal Regulations

DOT: U. S. Department of Transportation, including but not limited to:  
Hazardous Substances  
Title 49, Part 171 and 172 of the  
Code of Federal Regulations

EPA: U. S. Environmental Protection Agency (EPA), including but not limited to:

Asbestos Hazard Emergency Response Act (AHERA) Regulation  
Asbestos Containing Materials in Schools Final Rule & Notice  
Title 40, Part 763, Sub-part E of the Code of Federal Regulations

Asbestos School Hazard Abatement Reauthorization Act (ASHARA)  
Title 40, Part 763, Revised Appendix C to Subpart E of the Code of Federal Regulations

National Emission Standard for Hazardous Air Pollutants (NESHAPS)  
National Emission Standard for Asbestos  
Title 40, Part 61, Sub-part A, and Sub-part M (Revised Sub-part B) of the Code of  
Federal Regulations

State Requirements which govern asbestos abatement Work or hauling and disposal of  
asbestos waste materials include but are not limited to the following:

Colorado Air Quality Control Commission  
Emission Standards for Asbestos  
Regulation No. 8 "The Control of Hazardous Air Pollutants"  
Part B - Emission Standards for Asbestos

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

Local Requirements: Abide by all local requirements which govern asbestos abatement Work or hauling and disposal of asbestos waste materials.

**1804 Standards:**

General Applicability of Standards: Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all standards pertaining to Work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and Owners' Representative harmless for failure to comply with any applicable standard on the part of himself, his employees, or his subcontractors.

Standards which apply to asbestos abatement Work or hauling and disposal of asbestos waste materials include but are not limited to the following:

American National Standards Institute (ANSI)  
1430 Broadway  
New York, New York 10018  
(212)354-3300

Fundamentals Governing the Design and Operation of Local Exhaust Systems  
Publication Z9.2-79

American Society for Testing and Materials (ASTM)  
1916 Race Street  
Philadelphia, PA 19103  
(215)299-5400

Safety and Health Requirements Relating to Occupational Exposure to Asbestos - E  
849-82  
Standard Practice for Visual Inspection of Asbestos Abatement Projects - E 1368

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

**1805 Notices:**

U.S. ENVIRONMENTAL PROTECTION AGENCY

Send Written Notification as required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR 61, Subpart M) to the regional Asbestos NESHAPS Contact at least 10 working days prior to beginning any Work on asbestos containing materials. Send notification to the following address:

EPA, Region VIII (8ART-TS)  
Asbestos Coordinator/NESHAPS Contact  
1595 Wynkoop Street  
Denver, CO 80202-1129

Notification: Include information in the notification as required by the NESHAPS contact.

STATE AND LOCAL AGENCIES

Send written notification as required by State and local regulations prior to beginning any Work on asbestos-containing materials. Send notification to the following address:

Colorado Department of Public Health and Environment  
Colorado Air Pollution Control Division (APCD-SS-B1)  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

**1806 Permits:**

All asbestos containing waste is to be transported by an entity maintaining a current "Industrial waste hauler permit" specifically for asbestos containing materials to a disposal site. Colorado Department of Public Health and Environment Asbestos Abatement Permit shall be secured, signed by the Project Manager, and on-site prior to start of asbestos abatement.

**1807 Variances:**

Variances: The Contractor may request a variance from the appropriate Federal, State, or local agency whereas the Contractor may demonstrate to the satisfaction of the regulating agency and Owners' Representative that compliance is not practical and feasible or that the proposed alternative procedures provide equivalent control of asbestos. The Contractor shall comply with all terms and conditions of any variance granted. The Owners' Representative must approve in writing any variance application before submission, or variance before the start of Work, and may require additional terms. Acceptance of a variance by a regulatory agency does not constitute approval by the Owners' Representative.

Effect on Contract Sum: The denial of a variance by the Owners' Representative or Regulatory Agency does not constitute a changed condition. There will be no increases in the contract sum



Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

or extension of completion dates based upon the Contractor's ability, or inability, to secure a variance.

**1808            Licenses:**

Maintain current licenses as required by applicable State or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to the Work of this Contract.

**1809            Posting and Filing of Regulations:**

Post all notices at the Project site as required by applicable Federal, State, and local regulations. Keep copies of all applicable Federal, State, and local regulations and standards on file in Contractor's office.

**1810            Submittals:**

Before Start of Work: Submit the following to the Owners' Representative for review. No Work shall begin until these submittals are received by the Owners' Representative.

Permits, Licenses, and Certificates: For the Owners' records, submit copies of notices, permits, licenses, and certifications required by this Section.

Notices: Submit notices required by Federal, State and local regulations together with proof of timely transmittal to agency requiring the notice.

Permits: Submit a copy of application for permit and current valid permit required by State regulations.

Variances: Submit copies of all variances and the corresponding response by regulatory agency.

Licenses: Submit copies of all State and local licenses necessary to carry out the Work of this Contract.

Certifications: Submit copies of all State and local certifications of the contractor and employees of the Contractor necessary to carry out the Work of this Contract.

**1811            Stop Work:**

If the Owners' Representative presents a written stop work order immediately and automatically stop all work. Do not recommence work until authorized in writing by Owners' Representative.

**1812                    Site Use:**

During the scheduled abatement period, the Contractor shall have the use of the project site for construction operations 10 hours a day per each working day (no earlier than 7am/no later than 6pm). Contractors will be mindful that residential areas are within close proximity to the active work. Contractor must confine operations at the site to the areas permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed except as necessary to ensure the safety of those present at or near the site. Conform to site rules and regulations affecting the work while engaged in project construction.

The regulated area is to be restricted only to authorized, licensed, trained, and protected personnel. This may include the Contractor's employees, Owners' Representative and employees of State and local inspectors and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the worker's decontamination area or at the entrance to the project site.

Entry into the regulated area by unauthorized individuals shall be reported immediately to the Owners' Representative by the Contractor.

A logbook shall be maintained by the Contractor in the clean room of the worker decontamination area. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

Access to the regulated area shall be through a single worker decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the work area. The only exceptions for this rule are the waste pass-out airlock which shall be sealed except during removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside. However, they shall be sealed with polyethylene sheeting and tape until needed.

Contractor at their cost shall control site security during ACM removal operations in order to protect work efforts and equipment.

## **1900            Emergency Planning**

An emergency plan (Health and Safety Plan) shall be developed prior to initiation of the asbestos abatement action. A copy of the plan shall be available at the clean room of the worker decontamination area.

The emergency procedures in the Health and Safety Plan shall include telephone numbers for potential emergency response (police, fire department, and emergency medical needs), the location of the nearest telephone and the location to the nearest hospital. A map showing streets with directions to the hospital shall also be provided in the plan.

Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, confined spaces and heat related injury. Written procedures shall be developed and employee training in the procedures shall be provided.

Employees shall be informed of the Health and Safety Planning and trained in evacuation procedures in the event of workplace emergencies.

For non-life-threatening situations (employees only slightly injured) shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the work place to obtain proper medical treatment.

## **SECTION 2 - MATERIALS AND EQUIPMENT**

### **2000 Abatement Materials**

#### **2001 General:**

Deliver all materials in the original packages, containers or bundles bearing the name of the manufacturer and the brand name (where applicable).

Store all materials subject to damage off the ground, away from wet or damp surfaces and under cover sufficient enough to prevent damage or contamination. Replacement materials shall be stored outside of the work area until abatement is completed.

Damaged, deteriorating or previously used materials shall not be used and shall be removed from the work site and disposed of properly.

If used, Glovebags shall be minimum of six (6) mil thickness and be seamless at the bottom. All glovebags shall be removed from the original packing material and thoroughly inspected for defects around all seams and at the point of glove and accessory attachments. Any defective glovebags will be repaired or discarded.

Polyethylene sheeting for walls shall be a minimum of four (4) mil thick.

For floors and all other uses, sheeting of six (6) mil thickness shall be used in widths selected to minimize the frequency of joints.

Method of attachment may include any combination of duct tape or other waterproof tape, furring strips, spray glue, staples, nails, screws or sheets of polyethylene and capable of sealing polyethylene to dissimilar finished or unfinished surfaces under both wet and dry conditions (including the use of amended water).

Polyethylene sheeting utilized for worker decontamination enclosure shall be opaque white or black in color.

Disposal bags shall be of clear, six (6) mil polyethylene, preprinted with labels per OSHA requirement 29 CFR 1910.1001 (j)(2) and 29 CFR 1926.1101 (k)(7).

Disposal drums shall be metal or fiber coated with interlocking ring tops.

Stick-on labels as per OSHA requirements (see 2101.9) for disposal drums.

Warning signs as required by OSHA 29 CFR 1910.1001 (j)(1) and 29 CFR 1926.1101 (k)(6).

**2002                      Removal Chemicals:**

Surfactant (wetting agent) shall be a 50/50 mixture of polyoxyethylene ether polyoxyethylene ester, or equivalent, mixed in a proportion of one (1) fluid ounce of five (5) gallons of water or as specified by manufacturer. An equivalent surfactant shall be understood to mean a material with a surface tension of 29 dynes/cm as tested in its properly mixed concentration, using ASTM method D1331-56- "Surface and Interfacial Tension of Solutions of Surface-Active Agents." Where work area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

Chemical Remover shall be suitable to aid in the removal of ACM. The chemical must not be solvent-based and not be flammable.

Removal, Penetrating and Bridging Encapsulants shall be suitable to aid in removal of ACM. The encapsulants shall act as its own solvent and be capable of binding and encapsulating individual asbestos fibers.

**2003                      Lockdown:**

Encapsulation lockdown materials shall be bridging type. Encapsulants should not be solvent-based or utilize a vehicle (the liquid in which the solid parts of the encapsulant are suspended) consisting of hydrocarbons and shall not be flammable. Lockdown encapsulant must be color tinted so that its application can be easily verified.

## **2100 Abatement Equipment**

### **2101 General:**

A sufficient quantity of HEPA filtration units equipped with multi-stage HEPA filtration and operated in accordance with ANSI standards (local exhaust ventilation requirements) and EPA guidance document EPA 560/5-43-002 Guidance for Controlling Friable Asbestos - Containing Materials in Buildings Appendix F. Recommended Specifications and Operating Procedures for the Use of Negative Pressure Systems for Asbestos Abatement shall be utilized so as to provide at least one workplace air change every fifteen (15) minutes. When performing abatement adjacent to occupied areas, initiate operation of HEPA filtration equipment as needed to provide six air changes in the work area every sixty (60) minutes as demonstrated by volumetric measurements and HEPA filtered air exhaust velocity measurements. If air-supplied respirators are utilized, estimate the volume of supplied air, and add to workplace air volume when calculating ventilation requirements.

Each HEPA filtration machine must have a minimum of 1800 to 2000 cfm capacity.

Each HEPA filtration machine which is utilized on the project shall be tested/certified under the "DOP Test" within the six-month period prior to the start of work. This test is intended to ensure that air does not bypass or leak around the HEPA filter assembly within the HEPA filtration machine.

Each HEPA filtration machine shall have a backdraft damper installed on the discharge of the machine or equivalent.

Type "C" air-supplied respirators in positive pressure or pressure demand mode with full face pieces and HEPA filtered disconnect protection have traditionally been recommended by the EPA for all full shift abatement work until the successful completion of final clearance air monitoring. However, powered air purifying respirators equipped with HEPA filters and full face-pieces with highest NIOSH assigned protection factor may be used if the air fiber level in the regulated area does not exceed 0.5 f/cc during removal work. A sufficient supply of charged replacement batteries, HEPA filters and a flow test meter shall be available in the clean room for use with powered air purifying respirators.

Spectacle kits and eyeglasses must be provided by the Contractor for employees who wear glasses and who must wear full face-piece respirators. Respirators shall be provided by the Contractor that have been tested and approved by the National Institute of Occupational Safety and Health for use in asbestos contaminated atmospheres.

Compressed air systems, if used, shall be designed to provide air volumes and pressures to accommodate respirator manufacturer's specifications. The compressed air systems shall have a receiver of adequate capacity to allow escape of all respirator wearers from contaminated areas in the event of compressor failure. Compressors must meet the requirements of 29 CFR1910.134 (d). Compressors must have an observable in-line carbon monoxide monitor. Documentation of adequacy of compressed air systems/respiratory protection system must be retained onsite. This documentation will include a list of compatible components with the maximum number of and type of respirators that may be used as described in Compressed Gas Association

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

Specifications G-7.1. The Contractor is responsible for having a type "C" System at their disposal in case it is required.

Full body disposable protective clothing, including head, body and foot coverings (unless using reusable/cleanable footwear) consisting of material impenetrable by asbestos fibers (Tyvek or equivalent) authorized visitors in sizes adequate to accommodate movement without tearing.

Additional safety equipment (e.g. hard hats meeting the requirements of ANSI Standard Z87.1-1981, eye protection meeting the requirements of ANSI Standard Z87.1-1979, safety shoes or boots meeting the requirements of ANSI Standard Z41.1-1967, disposable PVC gloves), as necessary, shall be provided to all workers and authorized visitors.

Scaffolding erected for removal shall conform to requirements contained in OSHA 29 CFR 1926, Subpart L. The contractor will ensure that a "competent person", as defined by OSHA 29 CFR 1926.450, is present to inspect scaffolding during each day of project activity.

Non-skid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear to prevent body contamination.

A sufficient supply of disposable mops, rags and sponges for regulated area decontamination shall be available.

## **2102 Removal Equipment:**

A sufficient supply of scaffolds, ladders, lifts and hand tools (e.g. scrapers, wire cutters, brushes, utility knives, wire saws, etc.) shall be provided as needed and shall be erected or set-up and maintained in a safe manner.

Sprayers with pumps capable of providing 500 pounds per square inch (psi) at the nozzle tip at a flow rate of two gallons per minute for spraying amended water.

Rubber or plastic dustpans, shovels, and squeegees shall be provided for cleanup.

Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

A sufficient supply of HEPA filtered vacuum systems shall be available during ACM removal and cleanup. If an outside vacuum system such as a "Guzzler" is used, a full containment enclosure with negative air pressure differential will be required around the system so as to prevent possible contamination to the outside ambient air. A minimum of -0.02 column inches of water pressure differential, relative to outside pressure, shall be maintained within the NPE as evidenced by manometric measurements.

### **SECTION 3 - EXECUTION**

#### **3000 Preparation of Work Areas**

##### **3001 General Requirements:**

This section applies to the construction of a Negative Pressure Enclosure(s) (NPE) at Heroes/Freed School Building, 715 W. 20<sup>th</sup> Street, Pueblo, Colorado.

Post warning signs and warning tape meeting the requirements of OSHA 29 CFR 1910.1001 (j)(1) and 29 CFR 1926.1101 (k)(6) to demarcate the regulated area or other approaches where airborne fiber concentrations may be reasonably expected to exceed ambient background levels. Signs and warning tape shall be posted at a distance sufficiently far enough away from the regulated area to permit an employee or others to read the sign and take the necessary protective measures to avoid exposure. Exterior doors accessing the regulated area must be locked and posted on the outside with warning signs.

Electrical will be shut down and locked out to the building. Make provisions to draw temporary power and lighting to the abatement area. Owner is requiring certified personnel to guarantee safe installation (including ground faulting) of temporary power sources and equipment by compliance with all applicable electrical code requirements and OSHA requirements for temporary electrical systems. All costs for electric shall be paid by the Contractor.

The Contractor will provide water, portable sanitary and power during all abatement activities. The Contractor should connect to existing systems where possible. Portable sanitary systems do exist currently on site for Owner usage only and not to be used at any time by contractors.

##### **3001.1 Pre-Cleaning:**

Pre-clean all movable objects within the regulated area using a HEPA filtered vacuum and/or wet cleaning methods as appropriate. After cleaning, these objects shall be removed from the work area and carefully stored or disposed of in compliance with all applicable Federal, State and local laws.

##### **3001.2 Containment – Criticals:**

Objects in the regulated area which cannot be moved shall be covered with one layer of 6 mil polyethylene sheeting and secured with duct tape.

Seal off all windows, doorways, corridor entrances, drains, ducts, grates, diffusers, skylights and any other openings leading into, out of, or through the regulated area from areas outside of the regulated area with one layer of 6 mil polyethylene sheeting and duct tape/spray adhesive (critical barrier).



Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

For those openings in the regulated area which are part of the heating, venting and air conditioning (HVAC) system, one additional layer of 6 mil polyethylene sheeting shall be applied to those areas.

Construct a clear view port with a minimum size of 12"x 12" viewable area installed to allow a view of the interior of the work area. Install view ports to give a clear view of all abatement work operations.

**Floors (if applicable):**

Floor sheeting in the full containment areas shall consist of two independent layers of 6 mil polyethylene plastic and extend at least twelve (12) inches above the floor on walls.

Floor sheeting shall be installed first and extend up the wall. Wall sheeting shall be placed as close to the ceiling as possible and extend down to overlap the floor sheeting and taped into place.

Plastic shall be sized to minimize seams. If the floor area necessitates seams, those on successive layers of sheeting shall be staggered to reduce the potential for water to penetrate to the flooring material. A distance of at least six (6) feet between seams is sufficient. Do not locate any seams at wall/floor joints.

Floor sheeting shall extend at least twelve (12) inches up the sidewalls of the decontamination unit. Floors inside the decontamination chamber shall be covered with two layers of 6 mil polyethylene sheeting.

Sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material. Vinyl sheeting may be used for improved traction on floors.

**Walls (if applicable):**

Cover walls in the regulated area with polyethylene sheeting. In addition, openings through these walls to uncontaminated areas of the building must be sealed as described previously.

Wall sheeting shall consist of two independent layers of 4-mil polyethylene sheeting.

Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when HEPA filtration systems are utilized.

Floor and wall sheeting shall be installed so that the top layer can be removed independently from the bottom layer.

**3002 Worker Decontamination Area:**

The Worker Decontamination Area shall be provided at locations as close as practically possible to the regulated area. One system at a single location for each contained work area is preferred. The system may consist of existing rooms or areas outside of the work area, if the layout is appropriate, that can be enclosed in plastic sheeting and are accessible from the work area. When this situation does not exist, enclosure systems may be constructed out of metal, wood or plastic support as appropriate.

Worker decontamination enclosure systems constructed at the work site shall be separated from adjacent areas utilizing 6 mil opaque black or white polyethylene sheeting or other acceptable materials for privacy.

The worker decontamination enclosure shall consist of, at least, a clean room, a shower room and an equipment room, each separated from each other and from the work area by airlocks.

Entry to and exit from all airlocks and decontamination enclosure system chambers shall be through curtained doorways consisting of three (3) sheets of overlapping polyethylene sheeting. One (1) sheet shall be secured at the top and left side, the other sheets at the top and opposing sides. All sheets shall be installed to ensure that they hang straight and maintain a seal over the doorway when not in use.

Access between any two (2) rooms in the decontamination enclosure system shall be through an airlock with at least three (3) feet separating each curtained doorway. Pathways into (from clean to contaminated) and out from (contaminated to clean) the work area shall be clearly designated.

Clean room shall be sized to adequately accommodate the work crew. Benches shall be provided as well as hooks for hanging up street clothes (lockers may be provided for valuables; however, workers may be required to secure valuables in their cars). Shelves for storing respirators shall also be provided in this area. Clean work clothes (if required under disposable clothing), clean disposable clothing, replacement filters for respirators, towels and other necessary items shall be provided in adequate supply in the clean room. A location for postings shall also be used to permit access into the clean room from outside the work area. Lighting, heat and electricity shall be provided, as necessary, for comfort. This space shall not be used for storage of tools, equipment or materials, (except as specifically designated) or as office space.

Shower room shall contain one shower head per every five (5) workers in containment or more as necessary to adequately accommodate workers. Each shower head shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed and available at all times. Shower water shall be drained, collected and filtered through a system with at least 5.0-micron particle size collection capability.

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

(Notice: A system containing a series of several filters with progressively smaller pore sizes is recommended to avoid rapid clogging of filtration system by large particles).

No asbestos contaminated water may be allowed to evaporate or leak into non- work areas. All filtered water must be disposed of in a sanitary sewer. This water must not be allowed to go to storm drains, or run off onto adjacent soil or paved surfaces.

The equipment room shall be suited for storage of equipment and tools at the end of a shift after they have been decontaminated using HEPA filter vacuum and/or wet cleaning techniques as appropriate. Replacement filters (in sealed containers until used) for HEPA vacuums and HEPA filtration ventilation equipment, extra tools, containers of surfactant and other materials and equipment that may be required during the abatement may also be stored here. A pool or equivalent filled with water shall be located in the work area just outside the equipment room for workers to clean off foot coverings after leaving the work area and prevent excessive contamination of the worker decontamination enclosure system. A drum lined with a labeled six (6) mil polyethylene bag for collection of disposable clothing may be located in this room. Contaminated footwear (e.g. rubber boots, other reusable footwear) shall be stored in this area for reuse the following work day.

### **3003 Waste Container Pass-Out Airlock:**

The waste container pass-out airlock shall be attached to the abatement containment barriers at a location near the waste disposal transport container.

This airlock system shall consist of an airlock, a container staging area, and another airlock with access to the abatement work area.

The waste container pass-out airlock shall be constructed in a similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs.

The waste container pass-out airlock system **SHALL NOT** be used to enter or exit the work site. Waste containers **SHALL NOT** be removed from the containment through the worker decontamination unit(s).

### **3004 Maintenance of the Negative Pressure Enclosure:**

Following completion of the construction of all polyethylene barriers and decontamination system enclosures, allow settling to ensure that barriers will remain intact and secured to walls and fixtures before beginning actual abatement activities.

The NPE shall be inspected prior to beginning removal work and then be inspected at least twice daily: prior to the start of each day's abatement activities and following the completion of the day's abatement activities. Document inspections and observations on separate sheet or in the daily project log.

Use smoke tubes to test and inspect the NPE.

Damage and defects in the NPE are to be repaired immediately upon discovery.

At any time during the abatement activities, if visible suspect ACM, ACM, or asbestos-contaminated material is observed outside of the work area or if damage occurs to the NPE, work shall immediately stop, repairs be made to barriers, and debris/residue cleaned up using appropriate HEPA vacuuming and wet mopping procedures.

If air samples collected outside of the regulated area during abatement activities indicate airborne fiber concentrations greater than 0.1 f/cc or pre-measured background levels (whichever is lower), work shall immediately stop for inspection and repair of the NPE. Clean-up of surfaces outside of the work area using HEPA vacuum or wet cleaning techniques may be necessary.

Install and initiate operation of HEPA filtration equipment as needed to provide one air change in the work area every fifteen (15) minutes. Openings made in the enclosure system to accommodate these units shall be made air-tight with tape, spray adhesive, and/or caulking as needed. If more than one (1) unit is installed, they should be turned on one at a time, checking the integrity of wall barriers for secure attachment and need for additional reinforcement. Ensure that adequate power supply is available to satisfy the requirements of the ventilating units, air sampling pumps, and other equipment. HEPA filtration units shall be exhausted to the outside of the building whenever feasible. They shall not be exhausted into occupied areas of the building. Appropriate plastic extension ducting shall be used to reach from the work area to the exhaust area. Contractor shall insure that HEPA filters are changed regularly, filters are not obstructed or damaged and that the exhaust ducting does not release fibers into uncontaminated building areas.

A minimum of -0.02 column inches of water pressure differential, relative to outside pressure, shall be maintained within the NPE as evidenced by manometric measurements. When performing abatement adjacent to occupied areas, initiate operation of HEPA filtration equipment as needed to provide six air changes in the work area every sixty (60) minutes as demonstrated by volumetric measurements and HEPA filtered air exhaust velocity measurements. If air-supplied respirators are utilized, estimate the volume of supplied air, and add to workplace air volume when calculating ventilation requirements.

The NPE shall be kept under negative pressure throughout the period of its use.

Monitoring of airborne fiber concentrations may be performed in areas adjoining but outside of the NPE. This air monitoring is intended to demonstrate the integrity of the enclosure, worker decontamination area, and HEPA filtration systems. The area air monitoring will be performed by Owners' Representative.

The area air monitoring will be performed at areas leading into or out of the NPE (clean room, waste pass-out chamber) and within 20 feet from exhaust ports of the HEPA filtration machines.

The air samples will be collected at flow rates between 1 liter per minute to 10 liters per minute with a minimum total air volume of 1200 liters.

Air sample cassettes collected for area monitoring shall be analyzed by PCM methods on a 24-hour turnaround at a laboratory accredited by the AIHA Laboratory Accreditation Program.

### **3005            Emergency Exits:**

Clearly identify and maintain emergency and fire exits from the work area. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy visibility from anywhere within the work area. They shall be secured to prevent access from uncontaminated areas and still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress if needed. These exits may be the worker decontamination enclosure, the waste pass-out airlock and/or other alternative exits satisfactory to fire officials.

### **3006            Commencement of work shall not occur until:**

The NPE has been constructed and inspected for breaches and smoke-tested for leaks.

HEPA filtration ventilation systems are functioning adequately.

Electrical circuits in the NPE are deactivated unless equipped with ground-fault circuit interrupts.

All pre-abatement submissions, notifications, postings, permits, and abatement drawings have been provided and are satisfactory to the Owners' Representative.

All equipment for abatement, clean-up and disposal are on hand and proven to be in operating order.

All worker documentation (training, certifications, medical, and respirator fit testing) is completed and evidence thereof has been provided to Owners' Representative.

### **3100            Workplace Entry and Exit Procedures**

#### **3101            General Requirements:**

All workers and authorized personnel shall enter the work area through the worker decontamination area.

All personnel who enter the regulated area must sign the entry log, located in the clean room, upon entry and exit.

All personnel, before entering the regulated area, shall read and be familiar with all posted regulations, personal protection requirements (including workplace entry and exit procedures) and emergency procedures.

#### **3102            Worker Protection Procedures during Entry and Exit:**

All personnel shall proceed first to the clean room, remove all street clothes and appropriately don respiratory protection (as deemed adequate for the job conditions) and launderable and/or disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized, if required. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the work area.

Personnel wearing designated personal protective equipment shall proceed from the clean room through the shower room and equipment room to the regulated area.

Before leaving the regulated area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing and/or wet wiping procedures. (Small HEPA vacuums with brush attachments may be utilized for this purpose). Each person shall clean bottoms of protective footwear in the walk-off pan using brushes or other appropriate equipment just prior to entering the equipment room.

Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable (or launderable) clothing into appropriately labeled impermeable containers for disposal (or laundering).

Reusable footwear (rubber boots) shall be stored in the equipment room when not in use in the work area. Upon completion of the work, each pair shall be decontaminated at the completion of the abatement action.

Still wearing respirators, personnel shall proceed to the shower area, clean the outside of the respirators and the exposed face area under running water prior to removal of respirator and shower and shampoo to remove residue asbestos contamination. Various types of respirators will require slight modification of these procedures. An airline respirator with HEPA filtered disconnect protection may be disconnected in the equipment room and worn into the shower. A powered air- purifying respirator face-piece will have to be disconnected from the filter-power

pack assembly which is not waterproof, upon entering the shower. Cartridges must be changed for each new entry into the regulated area.

After showering and drying off, proceed to the clean room and don clean disposable (and/or launderable) clothing if there will be later re-entry into the regulated area or street clothes if it is the end of the work shift.

These procedures shall be posted in the clean room and equipment room.

### **3200 Waste Container Pass-out Procedures**

Asbestos contaminated waste that has been containerized shall be transported out of the work area through the waste container pass-out airlock (or through the worker decontamination enclosure if a separate airlock has not been constructed).

Waste pass-out procedures shall utilize two (2) teams of workers, an "inside" team and an "outside" team.

#### **3201 Inside Team:**

The inside team wearing appropriate protective clothing and respirators for inside the regulated area shall clean the outside, including bottom, of properly labeled, impermeable containers (bags, drums, or wrapped components) using HEPA vacuum and wet wiping techniques. The cleaned containers shall then be placed into the waste container pass-out airlock. No worker from the inside team shall further exit the regulated area through this airlock.

#### **3202 Outside Team:**

The outside team wearing protective clothing and appropriately assigned respirators, shall enter the airlock from outside the regulated area, enclose the ACM waste containers into another clean, labeled, six (6) mil polyethylene disposal bag and remove the bags from the airlock to the outside. No worker from the outside team shall enter any further into the regulated area through this airlock.

The double-wrapped disposal bags shall then be loaded into the ACM waste transport trailer.

The exit from this airlock shall be secured to prevent unauthorized entry.

### **3300            Personal Protection Requirements**

#### **3301            General:**

The Contractor, by initiating work on this project, acknowledges that he alone is responsible for providing for and enforcing the personal protection requirements on this project.

The Contractor shall conduct OSHA-mandated personal air monitoring for workers to determine Time Weighted Average and/or Excursion Level fiber concentrations.

The air samples shall be analyzed by PCM methods on a 24-hour laboratory turnaround. A laboratory performing the analysis must be accredited by the AIHA laboratory accreditation program. A mobile laboratory performing the analysis, if used, must be analyzed by a person registered by the AIHA as an asbestos analyst.

The personnel air sampling shall be performed at rates of 0.5 to 5.0 liters per minute with a total air volume between 25 liters to 2400 liters of air sampled during the work process.

#### **3302            Training:**

Prior to commencement of abatement activities, all personnel who will be required to enter the regulated area or handle containerized asbestos containing materials must have received adequate training, in accordance with this document and all applicable regulations.

Special onsite training on equipment and procedures unique to this job site shall be performed as required.

Training in emergency response and evacuation procedures shall be performed as required.



### **3303            Respiratory Protection:**

All respiratory protection shall be provided to workers in accordance with the submitted written respiratory protection program, which includes all items in OSHA 29 CFR 1910.134 (a) (1-11). This program shall be posted in the clean room of the worker decontamination enclosure system.

Workers shall be provided with personally issued, individually identified (marked with waterproof designations) respirators.

Implementation Suggestions: The use of engineering controls such as HEPA filtration ventilation units and HEPA vacuums and good work practices such as the wetting of ACM prior to abatement, removal in small sections, use of glove bags and proper clean-up and containerization all help to reduce airborne fiber levels in the work area. Additionally, air movement should be directed away from workers in the NPE during removal and toward a HEPA filtration device. A properly designed air monitoring program, implemented by a qualified air sampling professional and analytical laboratory, may support the use of respiratory protective devices that provide a lower factor of protection to the workers than air supplied respirators, for some abatement activities. Safety problems associated with the use of airline systems and time and financial constraints may be reduced through the use of alternative types of respiratory protection. It is imperative, however, that adequate air monitoring of fiber levels and a well-designed respiratory protection program (in accordance with 29 CFR 1910.134) be implemented. Basic points of the respirator program include: proper selection of respirator type and size, training of personnel in the proper inspection, donning, cleaning and maintenance procedures for the respirator selected including their use limitations, and a good filtering and fit testing program to provide proper protection. Single-use disposable respirators shall not be used during any asbestos abatement activities.

Negative-pressure dual cartridge respirators shall be equipped with high efficiency filters and exhalation and inhalation valves to permit the performance of positive and HEPA filtration fit checks.

#### **Fit Testing:**

Workers must perform positive and negative pressure fit checks each time a respirator is put on, whenever the respirator design so permits. Powered air- purifying respirators shall be tested for adequate flow as specified by the manufacturer.

Workers shall be given a qualitative fit test in accordance with procedures detailed in the OSHA Asbestos Construction Standard (29 CFR 1926.1101, Appendix C) for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for qualitative fit test.

Documentation of adequate respirator fit must be provided to the Owners' Representative.

No one wearing a beard shall be permitted to don a respirator and enter the work area.

Additional respirators (minimum of 2 of each type) and training on their donning and use must be available at the work site for authorized visitors who may be required to enter the regulated area.

**3304 Protective Clothing:**

Disposable clothing including head foot and full body protection shall be provided by the Contractor in sufficient quantities and adequate sizes for all workers and authorized visitors.

Laundryable clothing, if used, shall be provided by the Contractor in sufficient quantities and adequate sizes for all workers and authorized visitors.

Protective eyewear, gloves, rubber boots and/or other footwear shall be provided by the Contractor as required for workers and authorized visitors. Safety shoes may be required for some activities.

**3305 OSHA Personals:**

Throughout the removal and subsequent cleaning operations, the Contractor is responsible for all personal air monitoring as required under OSHA regulations for the protection of their employees. Samples shall be taken to establish an 8-hour Time-Weighted Average and exposure for each type of employee operation. Sampling and analysis shall be conducted in strict accordance with applicable OSHA regulations. Air samples to be analyzed by phase contrast microscopy (PCM). Analytical results of personal air samples shall be made available to the Owners' Representative on a 24-hour maximum turnaround basis. A general, a minimum of 25% of the workers in each type of work operation should be monitored continuously. All air samples submitted by the Contractor for analysis shall be submitted with two filter blanks to a laboratory currently accredited in the AIHA Laboratory Accreditation Program.

### **3400 Removal Procedures**

#### **3401 Class I Asbestos Removal:**

Pre-clean, isolate and prepare the regulated area.

Wet the ACM with amended water solution using appropriate equipment. Saturate the material to the greatest extent possible. Keep all removed material wet enough to prevent fiber release until it can be containerized for disposal.

Remove the ACM from the substrate. A layer of 6 mil polyethylene sheeting to act as a drop cloth shall be placed on surfaces beneath the removal activity.

Removed material should be containerized (disposal bags) before moving to a new location for continuance of work.

Materials removed from building structures or components shall not be dropped or thrown to the floor and/or ground. Materials should be removed as intact sections or components whenever possible, containerized and carefully lowered to the floor.

Containers (six (6) mil polyethylene disposal bags or drums) shall be sealed when full. (Wet material can be exceedingly heavy. Double bagging of waste material is always necessary.)

Asbestos containing waste with sharp-edge components (e.g. nails, screws, metal lath, tin sheeting, etc.) will tear the polyethylene bags and sheeting, and therefore, this type of materials shall be placed in drums for disposal.

After completion of any stripping work, surfaces from which ACM has been removed shall be wet brushed and sponged or cleaned by some equivalent method to remove all visible residue.

Clean-up shall proceed.

After the regulated area has been rendered free of visible residues, one coat of a satisfactory lockdown encapsulant agent shall be applied to all surfaces in the work area including structural members, building components and plastic sheeting on walls, floors and coverings over non-removable items, to seal in non-visible residue.

#### **3402 Class I Asbestos Removal (Glovebag Procedures for TSI-if applicable):**

Glovebags shall be constructed of 6 mil polyethylene plastic and be seamless at the bottom. The glovebags must have built-in internal sleeve gloves, tool pouch and small openings for the insertion of water sprayers and/or HEPA vacuum nozzles. The glovebags shall be pre-labeled with appropriate EPA, OSHA and DOT warnings.

The glovebags may only be used on straight runs of thermal system insulation ACM of unlimited lengths or on individual mudded pipe fittings.

The glovebags may only be used once and may not be moved.

Glovebags shall not be used on surfaces whose temperatures exceed 150°F.

The glovebag removal work shall be performed by at least two properly trained Contractor employees. The work must also be supervised by the General Superintendent.

Glovebag equipment and supplies shall include:  
Pump-up garden sprayer.

If used, Glovebags shall be minimum of six (6) mil thickness and be seamless at the bottom. All glovebags shall be removed from the original packing material and thoroughly inspected for defects around all seams and at the point of glove and accessory attachments. Any defective glovebags will be repaired or discarded.

Polyethylene sheeting for walls shall be a minimum of four (4) mil thick.

For floors and all other uses, sheeting of six (6) mil thickness shall be used in widths selected to minimize the frequency of joints.

Method of attachment may include any combination of duct tape or other waterproof tape, furring strips, spray glue, staples, nails, screws or sheets of polyethylene and capable of sealing polyethylene to dissimilar finished or unfinished surfaces under both wet and dry conditions (including the use of amended water).

Polyethylene sheeting utilized for worker decontamination enclosure shall be opaque white or black in color.

Disposal bags shall be of clear, six (6) mil polyethylene, preprinted with labels per OSHA requirement 29 CFR 1910.1001 (j) (2) and 29 CFR 1926.1101 (k) (7).

- Disposal drums shall be metal or fiber coated with interlocking ring tops.
- Stick-on labels as per OSHA requirements (see 2101.9) for disposal drums.
- Tape to seal glovebag to piping.
- Amended water and lockdown encapsulant.
- HEPA filtered vacuum system and/or HEPA filtration machine.
- Tools such as wire saws, utility knife, wire cutters, tin snips, scrub brush and rags.
- Pre-labeled, 6 mil disposal bags.
- 4-mil polyethylene sheeting.
- Smoke tubes with aspirator bulb.
- HEPA respirators and protective clothing.

**Glovebag work practices shall consist of the following:**

Isolate the regulated area with critical barriers (one layer of 6 mil polyethylene sheeting) over all openings leading into or out of the area. Place one additional critical barrier layer over all HVAC openings. Demarcate the regulated area with warning signs.

Place critical barriers (6 mil sheeting) over any HVAC system vents adjacent to the work area and drop cloths (6 mil sheeting) over all objects near the work area which cannot be moved.

Ventilate the regulated area using HEPA vacuum system or HEPA filtration machine.

Place one layer of 6 mil polyethylene sheeting on the floor or surface below the entire length of the {{pipe run or pipe fitting}} to be removed so that it extends at least 3 feet to either side of the material.

Wrap and/or seal any pre-existing damaged, friable and/or loose TSI material with tape or a layer of 6 mil polyethylene sheeting prior to glovebag work.

Securely attach glovebag to piping or object. The installation must completely cover the circumference of the pipe or object.

Test glovebag for leaks using smoke tubes. Seal with tape any leaks and retest.

Thoroughly wet the ACM and strip/remove the material to the substrate. Maintain the ACM in the glovebag in a wet condition during the removal process.

After ACM removal, clean the exposed surfaces with brushes and/or wet wiping to remove any remaining residue.

Apply lockdown encapsulant to exposed surfaces and adjacent TSI material, if applicable.

Remove tools from glovebag by pulling them through internal sleeve gloves. Twist the sleeve gloves and tape. The tools may be placed into the next section of glovebag or decontaminated in a bucket of water.

Making sure the removed ACM is in the bottom of the bag, evacuate the air from the glovebag using a HEPA filtered vacuum system, twist the glovebag several times and tape the bag closed.

Place the glovebag into a 6-mil disposal bag and perform clean-up procedures.

Workers performing glovebag removal shall wear, at a minimum, a half-face, dual cartridge HEPA respirator and protective clothing.

**Procedures for negative pressure glovebag use shall comply with work practices described above and to include the following:**

A HEPA filtered vacuum system is attached to bag and a device shall be placed in bag to prevent collapse during work.

The HEPA vacuum system and device to prevent collapse shall be used continuously during glovebag removal operations.

A separate waste collection bag may be used during ACM removal process. The waste bag may only be used once.

The collection/work bag may be reused if the bag is rinsed clean with water prior to next set-up.

**3403            Class II Asbestos Removal:**

All Class II ACM work shall be completed in accordance with the requirements stated in the OSHA Asbestos Standard 29 CFR 1926.1101(g) (7).

Demarcate the area around the removal area with asbestos warning tape and signs.

For indoor work, critical barriers shall be placed over all openings leading into or out of the regulated area.

**For removal of sheetrock wall system**, isolate the work area by constructing a partial containment enclosure (one layer of 6 mil polyethylene sheeting) for temporary walls or along walls which are not ACM and a layer of 6 mil sheeting on the floor. **For removal of floor tile/mastic**, a layer of 6 mil sheeting shall be placed at least 4 feet above the floor along walls in the work area. Contractor may utilize existing sheeting placed for construction of negative pressure enclosure at this area. Both containments shall have HEPA filtration machines placed in the work area. When performing abatement adjacent to occupied areas, initiate operation of HEPA filtration equipment as needed to provide six air changes in the work area every sixty (60) minutes. A minimum of -0.02 column inches of water pressure differential, relative to outside pressure, shall be maintained within the NPE as evidenced by manometric measurements.

***Class II removal practices shall consist of the following:***

Demarcate the area around the removal area with asbestos warning tape and signs.

For indoor work, critical barriers shall be placed over all openings leading into or out of the regulated area.

One layer of 6 mil polyethylene sheeting shall be placed under the removal activity, where practical. A layer of 6 mil sheeting shall be placed at least 4 feet above the floor along walls in the work area. Contractor may utilize existing sheeting placed for construction of negative pressure enclosure at this area. The work area shall have HEPA filtration machines placed in the work area to provide one air change every 15 minutes. When performing abatement adjacent to occupied areas, initiate operation of HEPA filtration equipment as needed to provide six air changes in the work area every sixty (60) minutes. For removal of sheetrock ceiling system, isolate the work area by constructing a partial containment enclosure (one layer of 6 mil polyethylene sheeting) for temporary walls or along walls which are not ACM and a layer of 6 mil sheeting on the floor.

The ACM shall not be removed by high speed abrasive saws, sanders or drills, compressed air systems, mechanical chipping or other types of powered cutting tools.

The ACM shall be removed in an intact state to the extent possible.

The ACM must be thoroughly wetted with amended water prior to removal.

Removed material shall be immediately placed in impermeable leak-tight containers, pre-labeled disposal bags or wrapped in polyethylene sheeting. The material must remain in a wet condition and transferred into waste transport trailer.

Any ACM debris shall be collected using HEPA vacuum system and/or wet wiped.

#### **3404            Mini-Containment Procedures (if applicable):**

Isolate the area by restricting access of unauthorized personnel.

Shutdown and tag/lockout the air handling equipment and isolate the area by restricting access by unauthorized personnel.

Minimum personal protection during set-up and take-down will consist of a half- face respirator with HEPA filters, disposable full-body suits and safety glasses. When removing the ACM, a full-face Powered Air Purifying Respirator (PAPR) with HEPA filters must be substituted for the half-face respirator, unless air monitoring data shows that a half-face respirator would be appropriate.

Place appropriate warning signs on entrances to the work area to prohibit unauthorized personnel from entering the area.

Place or hang critical barriers over openings to the work area. The critical barriers will consist of two layers of six (6) mil poly and duct tape.

Moveable objects should be removed from the work area to protect them from asbestos contamination and to prevent damage to surfaces or equipment. Objects that cannot be removed will be covered with two layers of six (6) mil poly sheeting. If the objects have already

been contaminated, they shall be cleaned with a HEPA vacuum or wet-wiped before being removed or covered with poly.

Place a drop cloth of six (6) mil poly on the ground/sidewalk directly under the work site and assure that it extends a minimum of ten (10) feet in all directions from the work site.

The following describes the two primary components of mini-containment areas:

1. Mini-Containment Work Area
  - a. Ceiling, floor, and walls are comprised of six (6) mil poly.
  - b. Will contain work area and be large enough to accommodate a minimum of five people.
  - c. Ceiling, floor, and wall seams will be sealed with duct tape/spray adhesive.
  - d. Walls will be supported with lumber or PVC or steel piping, as necessary. Attach poly with duct tape or staples. The abatement contractor must submit prior to the construction of the mini-containment work area the type construction, materials used, and methods of attachment (poly and unit to building).

Scaffolding erected for exterior stucco removal/repair shall conform to requirements contained in OSHA 29 CFR 1926, Subpart L. The contractor will ensure that a “competent person”, as defined by OSHA 29 CFR 1926.450, is present to inspect scaffolding during each day of project activity.

- e. Seal penetrations (conduit, pipe, staple holes, etc.) with duct tape.
    - f. Prior to removal of ACMs, a HEPA filtration device consisting of a HEPA vacuum or a negative HEPA filter machine will be attached to the mini-containment area to cause a negative air pressure on the inside of the mini-containment area. Exhaust from such devices will be vented outside the building.

2. Centralized Worker Decontamination Unit

Construct a centralized worker decontamination unit this worker decontamination unit shall be used only by workers who are performing work in the mini-containment work area.



Mini-containment ingress and egress are as follows: Ingress:

- a. Worker dons properly fit-tested PAPR with HEPA filters.
- b. Worker dons two (2) full-body suits over appropriate under garments (e.g. shorts for summer and coveralls for winter).
- c. Worker enters work area through change room. Egress:
- d. Once work is complete, waste is sealed in appropriately labeled bags. After encapsulant has been applied the worker removes the outer suit and proceeds to the centralized decontamination unit into the dirty/equipment room.
- e. Follow proper exit procedures.

### **3500            Clean-up Procedure**

Remove and containerize all visible accumulations of ACM and ACM debris utilizing rubber dust pans and rubber squeegees. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor sheeting.

Clean all surfaces in the regulated area using wet-dry HEPA vacuums, rags, mops and sponges as appropriate.

Remove and/or clean the outer layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain covered. The NPE shall remain in place and continued to be utilized.

Remove all containerized waste from the regulated area and waste container pass-out airlock and place into waste transport trailer.

Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence. Materials and/or equipment which cannot be thoroughly decontaminated must be placed in either locking containers or wrapped in two layers of 6 mil polyethylene sheeting.

Empty HEPA filtered vacuum collection units of ACM waste and remove/change filters from HEPA filtration machines.

Inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be ACM debris, and the cleaning sequence will be repeated.

The regulated area shall be cleaned until it is free of all ACM waste and debris and in compliance with Federal, State and local requirements. Any additional cleaning cycles shall be provided, as necessary, at no cost to the Owner, until all criteria have been met.

**3501            Air Monitoring:**

Ambient and final clearance air sampling will be conducted by the Owners' Representative. The results of this air sampling or final visual clearances will be made available to the Contractor within 24 hours of that activity. Should the Contractor desire this information earlier, he shall make a written request to the Owners' Representative. Air monitoring samples will be analyzed by PCM, NIOSH Method 7400.

Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owners' Representative for a decision before proceeding.

Results of ambient air sampling data, if collected during the course of the ACM removal work, will be submitted to the Contractor by the Owner/Owners' Representative. These sample results are for information only and may not be relied upon by Contractor for any purpose. They serve only to monitor Contractor performance during the project and shall not release the Contractor from any responsibility to sample for OSHA compliance or to otherwise perform Contractor's obligations hereunder. For the Demolition Contractor performing the OSHA-regulated material removal work; personnel worker samples are required and will be set up and taken by the Owners' Representative.

All ambient and final clearance visual inspection and air monitoring will be performed by the Owners' Representative. A copy of which shall be submitted to Contractor for inclusion into their permanent record.

Where in the performance of the work, workers, supervisory personnel, subcontractors, consultants or others may encounter, disturb or otherwise function in the immediate vicinity of any identified asbestos-containing materials take appropriate continuous measures as necessary to protect all building occupants or others from the potential hazard of exposure to airborne asbestos. Such measures shall include the procedures and methods described herein, and compliance with regulations of applicable Federal, State and local agencies.

**3502            Work Area Isolation:**

The purpose of the Owners' air monitoring is to detect faults in the Work Area isolation such as:

- Contamination of the building outside of the Work Area with airborne asbestos fibers,
- Failure of filtration or rupture in the differential pressure system,
- Contamination of air outside the building envelope with airborne asbestos fibers.

Should any of the above occur immediately cease asbestos abatement activities until the fault is corrected. Do not recommence Work until authorized by the Owners' Representative in writing.

**3503 Work Area Airborne Fiber Count:**

The Owners' Representative will monitor airborne fiber counts in the Work Area. The purpose of this air monitoring will be to detect airborne asbestos concentrations which may challenge the ability of the Work Area engineering controls to protect the balance of the building or outside of the building from contamination by airborne fibers.

**3504 Work Area Clearance:**

To determine if the elevated airborne fiber counts encountered during abatement operations have been reduced to an acceptable level, the Owners' Representative will sample and analyze air.

***STOP ACTION LEVELS:***

**3505 Inside Work Area:**

Maintain an average airborne count in the Work Area of less than 0.5 fibers per cubic centimeter. If the fiber counts rise above this figure for any sample taken, revise Work procedures to lower fiber counts. If the Time Weighted Average (TWA) fiber count for any Work shift or 8-hour period exceeds 0.5 fibers per cubic centimeter, stop all Work, leave Pressure Differential System in operation and notify Owners' Representative. After correcting cause of high fiber levels, do not recommence Work until authorized in writing, by Owners' Representative.

If airborne fiber counts exceed 2.0 fibers per cubic centimeter for any period of time cease all Work except corrective action until fiber counts fall below 0.5 fibers per cubic centimeter and notify Owners' Representative. After correcting cause of high fiber levels, do not recommence Work until authorized in writing, by Owners' Representative.

**3506 Outside Work Area:**

If any air sample taken outside of the Work Area exceeds the base line established below, immediately and automatically stop all Work except corrective action. The Owners' Representative will determine the source of the high reading and so notify the Contractor both verbally and in writing.

If the high reading was the result of a failure of Work Area isolation measures initiate the following actions:

- Restrict access to the affected area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Shut off or modify air handling systems to prevent the distribution of airborne fibers. Establish negative air flow using HEPA equipped negative pressure differential equipment to prevent the spread of airborne contamination to other areas of the project site.
- Immediately erect new critical barriers to isolate the affected area from the balance of the building. Erect Critical Barriers at the next existing structural isolation of the involved space (eg. wall, ceiling, floor).
- Decontaminate the affected area.
- Require that respiratory protection be worn in affected area until area is cleared for re-occupancy.
- Leave Critical Barriers in place until completion of Work and ensure that the operation of the pressure differential system in the Work Area results in a flow of air from the balance of the building into the affected area.
- If the exit from the Clean Room of the personnel decontamination unit enters the affected area, establish a new decontamination facility consisting of a Shower Room and Changing Room. The original Clean Room may be considered the new Equipment Room for the duration of the Work.
- After Certification of Visual Inspection in the Work Area remove critical barriers separating the Work Area from the affected area. Final air samples will be taken within the entire area.

If the high reading was the result of other causes initiate corrective action as determined by the Owners' Representative.

**3507                      Effect on Contract Sum:**

Complete corrective Work with no change in the Contract Sum if high airborne fiber counts were caused by Contractor's activities. If the cause of the elevated fiber counts was a result of Contractor error, the Contractor may be held accountable for any additional air sampling and analysis costs. The Contract Sum and schedule will be adjusted for additional Work caused by high airborne fiber counts beyond the Contractor's control.

**3508 Analytical Methods:**

The following methods will be used by the Owners' Representative in analyzing filters used to collect air samples. Sampling rates may be varied from printed standards to allow for high volume sampling.

**Phase Contrast Microscopy (PCM)** will be performed using the NIOSH 7400A method. APEC will be performing all analysis in our certified lab. This analysis will be carried out at the job site, or in our office laboratory located off the job site. This will be at the AMS discretion and based on if a clean environment is available on site at the time of clearance.

**Transmission Electron Microscopy** will be performed using the analysis method set forth in the AHERA regulation 40 CFR Part 763 Appendix A.

**SAMPLE VOLUMES:**

**3509 General:**

The number and volume of air samples taken by the Owners' Representative will be in accordance with the following schedule and of sufficient volume to confidently analyze 0.010 f/cc whenever possible. Sample volumes given may vary depending upon the analytical method used.

**SCHEDULE OF AIR SAMPLES:**

**3510 Before Start of Work:**

The Owners' Representative will secure the following Air Samples to establish a base line before Start of Work (if needed or applicable).

**3511 Sample cassettes:**

Samples will be collected on 25 mm. cassettes as follows:

PCM: 0.8 and/or 0.45 micrometer mixed cellulose ester.

TEM: 0.45 micrometer mixed cellulose ester with 5.0-micron mixed cellulose ester backing filter.

**3512 Sampling sensitivity in the table below refers to:**

Detection Limit for PCM analysis as set forth in the analytical method used Analytical  
 Sensitivity for TEM analysis as set forth in the analytical method used or the AHERA  
 regulation:

Location Sampled	Number of Samples	Analysis Method	Sampling Sensitivity Fibers/cc.	Minimum Volume (Liters)	Rate LPM
Each Work Area	1	PCM and Hold for TEM	0.01	1,300	1-10
Outside Each Work Area	4	PCM and Hold for TEM	0.01	1,300	1-10
Outside Building Work Area	1	PCM and Hold for TEM	0.005	1,300	1-10

**3513 Base Line**

An action level expressed in fibers per cubic centimeter which is greater than the largest of the following:

Average of the PCM samples collected inside the Work Areas

Average of the PCM samples collected outside each Work Area

Average of the PCM samples collected outside the building

0.01 fibers per cubic centimeter

Samples collected for TEM analysis will be held without analysis. These samples may be analyzed as needed to verify PCM analysis or for quality assurance on the Work.

**3514 Daily:**

The Owners' Representative may be taking the following samples on a daily basis.

Samples will be collected on 25 mm. cassettes with the following filter media:

PCM: 0.8 and or 0.45 micrometer mixed cellulose ester.

TEM: 0.45 micrometer mixed cellulose ester with 5.0-micron mixed cellulose ester backing filter.

Location	Number	Analysis	Sampling	Minimum	Rate
Sampled	of	Method	Sensitivity	Volume	LPM
	Samples	Fibers/cc.		(Liters)	
Each Work Area OR AS REQUIRED BY CONDITIONS	1	PCM	0.01	1,200	1-10
Outside Each Work Area at Critical Barrier	1	PCM	0.01	1,200	1-10
Clean Room	1	PCM	0.01	1,200	1-10
Equip Decon	1	PCM	0.01	1,200	1-10
Outside Building	1	PCM	0.01	1,200	1-10
Output Pressure Differential Sys	1	PCM	0.01	1,200	1-10

Additional samples may be taken at Owners' or Owners' Representatives discretion. If airborne fiber counts exceed allowed limits additional samples will be taken as necessary to determine the source of fiber counts and to monitor fiber levels.

**3515                    Laboratory Testing:**

The services of a testing laboratory will be employed by the Owners' Representative to perform laboratory analyses of clearance air samples. A microscope equipped technician will set up at the job site, or samples will be sent overnight on a daily basis, so that verbal reports on air samples can be obtained within 24 hours. The Contractor will have access to all air monitoring tests and results.

A complete record of all air monitoring and results will be furnished to the Owners' Representative, the Owner, and the Contractor upon request.

**3516                    Written Reports:**

All air monitoring tests will be posted at the job site on a daily basis.

**3517                    Personnel Monitoring:**

The Owner and Owners' Representative will not perform air monitoring to meet Contractor's OSHA requirements for personnel sampling or any other purpose.

**3518                    Additional Testing:**

The Contractor may conduct his own air monitoring and laboratory testing. If he elects to conduct his own air monitoring, cost of such air monitoring and laboratory analysis shall be at no additional cost to the Owner.



## **3600 Visual Clearance Inspections and Final Air Clearance Sampling**

### **3601 Visual:**

Following the completion of clean-up operations, the Contractor shall notify the Owners' Representative that the regulated area is ready for a final visual clearance inspection and final air sampling.

The Owners' Representative shall then arrange with the General Superintendent to visually survey areas where ACM has been removed for any remaining asbestos materials or debris. The final visual inspection will be conducted in general accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Visual Inspection of Asbestos Abatement Projects, E 1368 - 11, which is incorporated by reference.

If visible ACM debris or residue is observed, the regulated area shall be re-cleaned. If the regulated area is free of visible ACM debris or residue and passes the final visual clearance inspection, Contractor may apply a lockdown encapsulant (Optional) to all surfaces in the work area.

Lockdown encapsulants shall be spray-applied with a color tinting only after the exposed substrate surfaces are dry.

### **3602 Air:**

Final air sampling shall be conducted in the NPE using sampling pumps calibrated at a flow rate of at least two (2) and not more than ten (10) liters per minute using collection media and procedures in accordance with NIOSH Standard Analytical Method 7400. Air volumes shall be sufficient to provide reliable results down to a concentration of 0.01 fibers per cubic centimeter of air (f/cc) or lower. Minimum air volumes of 1200 liters shall be collected for method 7400.

Air collection filter assemblies (cassettes) shall consist of a pre-assembled 25 mm diameter, 0.8-micron porosity mixed cellulose ester filter with support pad mounted in a carbon filled polypropylene housing.

The cassettes shall be placed on a stand separate from the sampling pumps at a height of approximately four (4) feet above the floor. The cassettes shall be connected to the sampling pumps by flexible tubing and oriented downward at approximately 45 degrees from the horizontal.

Prior to air sampling, sweep all surfaces in the regulated area with the exhaust of a minimum one (1) horsepower leaf blower.

Place stationary fans in the regulated area during air sampling with the flow directed at the ceiling. One fan shall be used for each 10,000 cubic feet of regulated area.

Maintain operation of HEPA filtration machines and negative pressure enclosure during air sampling activities.

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

At the conclusion of air sampling, turn cassettes upward before stopping air flow. Cap ends, label and store cassettes in polyethylene bags for transport.

### **3603 Final Air Requirements:**

The number of final clearance samples that are required (described in the following table) and the specific locations where they shall be taken will be established by the Owners' Representative. Final Air Sampling Requirements are listed as follows:

<b>FINAL AIR SAMPLING REQUIREMENTS</b>		
For each work area within the project where the amount of ACM is:	Minimum Number of Samples to clear each work area	Minimum Number of Samples to clear each project
Less than 3 square/3 linear feet	1	5
From 3 square feet/3 linear feet up to 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum	2	5
Greater than 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum up to 160 square feet/260 linear feet/volume equivalent of a 55-gallon drum	5	5
Greater than 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum	5	5

Air samples shall be analyzed by Phase Contrast Microscopy unless specifically required or requested otherwise by the Owner or the Contractor. If the Contractor requests an alternate method, they will be invoiced for any additional monitoring time and analysis costs.

All air samples collected for clearance purposes shall indicate concentrations of airborne fibers equal to or less than 0.01 f/cc for release of the regulated area.

A regulated area that does not pass a final visual clearance inspection or exceeds the clearance level of 0.01 f/cc shall be re-cleaned until the asbestos material or debris has been satisfactorily removed. **Contractor shall be responsible for all costs associated for re-cleaning and retesting the air within the regulated area for clearance purposes.**

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

### **3700 Waste Disposal Procedures**

For asbestos-containing waste material to be transported off the facility site, label containers or wrapped materials with the name of the waste generator and the location at which the waste was generated.

All asbestos-containing waste material shall be disposed of as soon as is practical by the Contractor. The ACM waste generated from the project site shall be transported directly from the site to the disposal facility. Contractor shall not mingle ACM wastes from other facilities with wastes generated from the project site.

#### **3701 Disposal Bags:**

Provide 6 mil thick leak-tight polyethylene bags labeled with four labels with text as follows:

**First Label:**

DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID OPENING OR BREAKING CONTAINER  
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH

**Second Label:**

Provide in accordance with 29 CFR 1910.1200(f) of the OSHA Hazard Communication Standard:

DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD  
BREATHING AIRBORNE ASBESTOS, TREMOLITE, ANTHOPHYLLITE, OR ACTINOLITE  
FIBERS IS HAZARDOUS TO YOUR HEALTH

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

**Third Label:**

Provide in accordance with U. S. Department of Transportation regulation on hazardous waste marking. 49 CFR parts 171 and 172. Hazardous Substances: Final Rule. Published November 21, 1986. Comply with latest revision.

RQ HAZARDOUS  
SUBSTANCE,  
SOLID, NOS, CLASS 9  
(ASBESTOS)

**Fourth Label:**

Provide the name of the Owner, building location, name of the Contractor and sequential number for each disposal bag. This label must be pre-printed.

Disposal must occur at an approved landfill authorized to accept asbestos waste in accordance with regulatory requirements of NESHAP and other applicable Federal, State and local statutes, laws, ordinances, rules, guidelines and regulations.

Copies of all dump receipts, trip tickets, transportation manifests or other documentation of disposal shall be delivered to the Owners' Representative for inclusion in their records. The record keeping format shall utilize a chain-of- custody form which includes the names and addresses of the Generator (Owner as identified in General Specifications), Contractor, pickup site, and disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form shall be signed by the Generator, the Contractor and the Disposal Site Operator, as the responsibility for the material changes hands. If a separate transporter is employed, their name, address, telephone number and signature shall also appear on the form.

For all asbestos-containing waste material transported off the facility site, maintain waste shipment records (WSR) as stipulated in Section 61.150 of the November 20, 1990, NESHAPs Asbestos Revision (40 CFR, Part 61, Subpart M).

**3702                    Transportation to the Landfill:**

Once drums, bags and wrapped components have been removed from the regulated area, they shall be loaded into an enclosed truck or container for transportation. This truck or container shall be locked to prevent access when not in use.

Mark vehicles used to transport asbestos-containing waste material with asbestos danger signs during the loading and unloading of waste so that the signs are visible. During transportation, the enclosed truck or container shall be marked with a Class 9 placard pursuant to Department of Transportation requirements.

When moving containers, utilize hand trucks, carts and proper lifting techniques to avoid back injuries. Trucks with lift gates are helpful for raising and lowering drums of material to and from the truck.

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

The encapsulated cargo area of the truck must be free of debris and lined with six (6) mil polyethylene sheeting to prevent contamination from leaking or spilling containers. Floor sheeting shall be installed first and extended up the sidewalls. Wall sheeting shall be overlapped and taped into place.

Drums shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large structural components shall be secured to prevent shifting, and bags placed on top. Do not throw containers into truck cargo area.

Personnel loading asbestos containing waste shall be protected by disposable clothing including head, body and foot protection and, at a minimum, half-face- piece, air-purifying, dual cartridge respirators equipped with high efficiency filters.

Any debris, water, or residue observed on containers or surfaces outside of the work area resulting from clean-up or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods as appropriate.

Large metal dumpsters are sometimes used for asbestos waste disposal. These should have doors or tops that can be closed and locked to prevent vandalism or other disturbance of the bagged asbestos debris and wind dispersion of asbestos fibers. Un-bagged material shall not be placed in these containers, nor shall the dumpster be used for non-asbestos waste. Bags shall be placed, not thrown, into these containers to avoid splitting.

### **3703                    Disposal at the Landfill:**

If an independent transporter is employed, he shall, for the purposes of compliance with these specifications, be considered a subcontractor to the abatement contractor and shall be supplied with and held to the provisions of this section.

Upon reaching the landfill, trucks are to approach the dump location as closely as possible for unloading of the asbestos containing waste.

Bags, drums and components shall be inspected as they are off-loaded at the disposal site. Material in damaged containers shall be placed in empty drums or bags or repaired using duct tape as necessary.

Waste containers shall be placed on the ground at the disposal site, not pushed or thrown out of trucks (weight of wet material could rupture containers).

Personnel off-loading containers at the disposal site shall wear protective equipment consisting of disposable head, body and foot protection and, at a minimum, half-face, air-purifying, dual cartridge respirators equipped with high efficiency filters.

Following the removal of all containerized waste, the truck cargo area shall be decontaminated using EPA vacuums and/or wet methods to meet the non-visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing, in bags or drums at the disposal site.

**3800 Release and/or Re-establishment of the Regulated Area**

Re-establishment of the regulated area shall only occur following the completion of clean-up procedures, visual clearance inspection and final air clearance sampling have been performed and documented to the satisfaction of the Owner and the Owners' Representative.

Critical barriers and remaining polyethylene sheeting shall be removed from the regulated area and disposed of as asbestos-contaminated waste.

HEPA filtration machines shall be wrapped in plastic before removal from the regulated area.

The Contractor and the Owners' Representative shall visually inspect the regulated area for any remaining ACM debris. Evidence of contamination will necessitate additional cleaning requirements to be performed at the Contractor's expense.

Additional air monitoring, if necessary, shall be performed at the Contractor's expense if additional clean-up is necessary.

At the discretion of the Contractor, mandatory requirements for personal protective equipment may be waived during removal of remaining barrier sheeting.

## **SECTION 4 – WASTE**

### **4000 Hazardous Waste Management**

#### **4001 Description of the Work:**

This section describes the segregation, packaging, labeling, transport, and disposal of waste materials generated by demolition activities and the subsequent shipment of properly packaged and labeled waste materials to an approved disposal site.

#### **4002 Codes and Regulations:**

Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes and regulations have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

#### **4003 Contractor Responsibility:**

The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to hazardous waste management and disposal. Hold the Owner and Designer harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of the Contractor, the Contractor's employees, or Subcontractors.

#### **4004 Federal Requirements:**

Which govern the management; hauling and disposal of hazardous waste include but are not limited to the following:

#### **4005 DOT: U. S. Department of Transportation, including but not limited to:**

- 1) Hazardous Substances  
Title 49, Part 171 and 172 of the Code of Federal Regulations
- 2) Hazardous Material Regulations  
General Awareness and Training Requirements for Handlers, Loaders and Drivers Title 49, Parts 171-180 of the Code of Federal Regulations
- 3) Hazardous Material Regulations Editorial and Technical Revisions  
Title 49, Parts 171-180 of the Code of Federal Regulations EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:
  - Management of Hazardous Wastes Resource Conservation and Recovery Act RCRA) Title 40, Parts 260-268 of the Code of Federal Regulations, State and Local Requirements: Abide by all state and local requirements which govern the management, hauling and disposal of hazardous waste.

**4006 Hazardous Waste:**

The following waste products are designated by the Owner as non- salvageable and as Hazardous Waste Types:

- |               |  |
|---------------|--|
| Waste Type A: | PCB waste.<br>PCB-containing ballasts from fluorescent light fixtures.                                   |
| Waste Type B: | Mercury-containing waste.<br>Thermostats with mercury switches.<br>Fluorescent, and mercury-vapor lamps. |

**4007 Hazardous Waste Packaging and Labeling:**

Package each segregated Hazardous Waste Type, A and B, in specified containers as follows.  
IMPORTANT: Do Not Mix Waste Streams:

- 1) Waste Type A
  - Package in DOT 17-H Open-Top Drums
  - Fill to capacity only with Waste Type A (Do Not Mix Waste Stream types).
  - Install gasket on lid, apply lock ring, and seal.
  - Apply Hazardous Waste Label to drum side.
  - Enter DOT Shipping Data as follows: RQ Waste Polychlorinated Biphenols, 9, UN-2315, PG-II, (MOOI).
  - Adjacent to each label, enter the date indicating when waste was first placed in each drum.
- 2) Waste Type B
  - Package in DOT 17-H Open-Top Drums with Polyethylene disposal Bag liners
  - Fill liner bags only with Waste Type B (Do Not Mix Waste Stream types); then neck liner bags down into DOT 17-H Open-Top Drum and seal with duct tape.
  - Install gasket on lid, apply lock ring, and seal.
  - Apply Hazardous Waste Label to drum side.



Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

- Enter DOT Shipping Data as follows: RQ Hazardous Waste Solid, NOS, 9, NA3077, PG-III, (D009).
  - Adjacent to each label, enter the date indicating when waste was first placed in each drum.
- 3) Sealed and Labeled Containers: maintain all containers in a continuously sealed condition after they have been sealed.
- Do not reopen sealed containers.
  - Do not place additional waste in sealed containers.

**4008 Temporary Storage:**

Partially filled containers of hazardous waste may be stored at the work site for intermittent packaging provided that (72 hours):

- 1) Each container is properly labeled when it is first placed in service;
- 2) Each container remains closed at all times except when compatible waste types are added; and
- 3) When moved from site to site, each container remains within the geographic boundaries of the facility without moving nor crossing public access highways.

**4009 Removal of Hazardous Wastes:**

Immediately seal containers of hazardous waste as each the container is filled. Remove containers of hazardous waste from the work site within seventy-two (72) hours of being filled.

- 1) transporting filled containers from the work site to an approved disposal site or recycling center.
- 2) Continuously maintain custody of all hazardous material generated at the work site including security, short-term storage, transportation and disposition until custody is transferred to an approved disposal site or recycling center. Document continuous chain-of custody.
- 3) Do not remove, or cause to be removed, hazardous waste from Owners' property without a legally executed Uniform Hazardous Waste manifest
- 4) At completion of hauling and disposal of each load submit copy of waste manifest, chain of custody form, and landfill receipt to Designer.

**4010 Recycling and Recovery:**

Turn over waste which contains materials for which recovery and/or recycling is possible to an approved recycling center. Materials subject to recycling include:

- 1) Fluorescent light tubes.
- 2) Thermostats with mercury switches.
- 3) Lead acid batteries
- 4) Lead-based paint chips, small pieces of debris with lead-based paint, and lead based paint dust.

**4011 Back charges:**

- 1) Where contractor fails to fulfill packaging, handling, transport or disposal requirements as outlined herein, Contractor is responsible for all costs associated with insuring that hazardous wastes are segregated, packaged, transported and disposed of in accordance with all applicable Federal and State regulations.
- 2) Environmental pollution of Owners' property or other environments resulting from Contractor's hazardous waste management activities will be promptly remediated under Owners' direction, to the Owners' sole satisfaction, and at the Contractor's sole expense.
- 3) Contractor agrees to provide all cost or reduce the Contract amount by change order to cover all costs associated with waste re- packaging, waste re-segregation, or pollution remediation efforts.

Transport and legally dispose of non-hazardous waste products, materials, residues and refuse at a location not on Owners' property.

- 1) Emptied hazardous material containers may be disposed of as construction debris waste (i.e. non-hazardous).
  - Personnel protective clothing and safety equipment with de minimis or trace contamination, as determined by visual inspection by Owners' Representative.
- 3) Keep premises in a clean and orderly condition during performance of abatement work.
- 4) Place non-hazardous construction debris wastes on a daily basis in secure containers for local landfill disposal.

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

## **EXHIBIT 1**

### **Supporting Asbestos AHERA Information**

## **AHERA THREE YEAR RE-INSPECTION**

**August 2021**

PREPARED FOR:

**Pueblo City Schools District 60**

**Building Location:**

**Roncalli Middle School**

4202 W. State Hwy 78

Pueblo, CO 81005

Re-Inspection Date: August 12, 2021

Next re-inspection Date: August 2024

**Certified Asbestos Building Inspector:**

Joseph Cardenas #24591

**Certified Management Planner**

Brandice Eslinger # 5494

**Colorado Listed Asbestos Consulting Firm: ACF-19579**

All-Phase Environmental Consultants

721 West 9<sup>th</sup> Street

Pueblo, Colorado 81003

Ph. (719) 545-0375

Web Site: [www.allphaseenvironmental.com](http://www.allphaseenvironmental.com)

**All-Phase Environmental Consultants, Inc.**

**Project # 21-4541 (AA)**

## TABLE OF CONTENTS

### Contents

I. INTRODUCTION .....	3
II. RESPONSILIBILITIES OF THE LOCAL EDUCATION AGENCY (LEA) .....	7
III. DESIGNATED PERSON .....	8
IV. APEC SAMPLE FINDINGS .....	10
V. HAZARD ASSESSMENT AND RESPONSE ACTION EVALUATIONS.....	10
VI. EVALUATION AND SELECTION OF CONTROL OPTIONS.....	10
VII. COMMENTS/DISCREPANCIES/SUMMARY OF NEW FINDINGS.....	11
VIII. SIGNATURES.....	11

### APPENDICES

- A. SITE MAP
- B. REINSPECTION AND ASSESSMENT DATA
- C. CERTIFICATIONS

**LIST OF ACRONYMS / ABBREVIATIONS**

<b>ACBM</b>	Asbestos Containing Building Material
<b>ACM</b>	Asbestos Containing Material
<b>AHERA</b>	Asbestos Hazard Emergency Response Act
<b>APEC</b>	All Phase Environmental Consultants
<b>CABI</b>	Certified Asbestos Building Inspector
<b>EPA</b>	Environmental Protection Agency
<b>LEA</b>	Local Education Agency
<b>O&amp;M</b>	Operations and Maintenance
<b>OSHA</b>	Occupational Safety and Health Administration

**I. INTRODUCTION**

At least once every three years after a Management Plan is in effect the LEA shall conduct a reinspection of all friable and non-friable, known or assumed asbestos in each school building that the school district leases, owns, or otherwise uses as a school building. The inspection is designed to ascertain the physical condition of the material by visual inspection, and hand pressure on the material to determine friability. Any changes in the condition of the material need to be recorded, and then submitted to the person who was designated under Subsection IV.B. A copy of the record must be placed in the most recent Management Plan as an update. Additionally any records of abatement should be noted. The following re-inspection is based solely on the 2018 re-inspections of Dave Kahler of RLH Engineering. It was not within the scope of APEC's services to go back through the entire history of each school/ school building to determine, if Mr.Kahler's reports were thorough. However, if an obvious discrepancy was noted in the field during the 2021 re-inspection those are highlighted in **RED** in section VII. There may be additional discrepancies and/ or unidentified ACBM's that were not in the 2018 reports, thus those were not re-inspected by APEC personnel.

The major purpose of this re-inspection is to satisfy the requirements of the AHERA and Colorado Department of Public Health and Environment requirements as found in Section IV of Regulation Number 8, Part B Effective March 17, 2021. It is assumed that an original AHERA asbestos report was developed in 1988 or when the building was constructed.

**School Inspected:**

The AHERA re-inspection of Roncalli Middle School, Pueblo Colorado was conducted on August 12, 2021. During this investigation, no suspect asbestos samples were obtained.

Synopsis of AHERA Re- inspection regulations:

The following regulations apply to AHERA re-inspection as published in the Federal Register, Part III, The Environmental Protection Agency, 40 CFR Part 763. §763.85 Inspection and re- inspection and §763.88 Assessment.

§763.85 Inspection and reinspections.

- (a) *Inspection.* (1) Except as provided in paragraph (a) (2) of this section, before October 12, 1988, local education agencies shall inspect each school building that they lease, own, or otherwise use as a school building to identify all locations of friable and nonfriable ACBM.
- (2) Any building leased or acquired on or after October 12, 1988, that is to be used as a school building shall be inspected as described under paragraphs (a) (3) and (4) of this section prior to use as a school building. In the event that emergency use of an uninspected building as a school building is necessitated, such buildings shall be inspected within 30 days after commencement of such use.
- (3) Each inspection shall be made by an accredited inspector.
- (4) For each area of a school building, except as excluded under §763.99, each person performing an inspection shall:
  - (i) Visually inspect the area to identify the locations of all suspected ACBM.
  - (ii) Touch all suspected ACBM to determine whether they are friable.
  - (iii) Identify all homogeneous areas of friable suspected ACBM and all homogeneous areas of nonfriable suspected ACBM.
  - (iv) Assume that some or all of the homogeneous areas are ACM, and, for each homogeneous area that is not assumed to be ACM, collect and submit for analysis bulk samples under §§763.86 and 763.87.
  - (v) Assess, under §763.88, friable material in areas where samples are collected, friable material in areas that are assumed to be ACBM, and friable ACBM identified during a previous inspection.
  - (vi) Record the following and submit to the person designated under §763.84 a copy of such record for inclusion in the management plan within 30 days of the inspection:
    - (A) An inspection report with the date of the inspection signed by each accredited person making the inspection, State of accreditation, and if applicable, his or her accreditation number.
    - (B) An inventory of the locations of the homogeneous areas where samples are collected, exact location where each bulk sample is collected, dates that samples are collected, homogeneous areas where friable suspected ACBM is assumed to be ACM, and homogeneous areas where nonfriable suspected ACBM is assumed to be ACM.

- (C) A description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, State of accreditation, and, if applicable, his or her accreditation number.
- (D) A list of whether the homogeneous areas identified under paragraph (a)(4)(vi)(B) of this section, are surfacing material, thermal system insulation, or miscellaneous material.
- (E) Assessments made of friable material, the name and signature of each accredited inspector making the assessment, State of accreditation, and if applicable, his or her accreditation number.
- (b) *Reinspection.* (1) At least once every 3 years after a management plan is in effect, each local education agency shall conduct a reinspection of all friable and nonfriable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building.
- (2) Each inspection shall be made by an accredited inspector.
- (3) For each area of a school building, each person performing a reinspection shall:
  - (i) Visually reinspect, and reassess, under §763.88, the condition of all friable known or assumed ACBM.
  - (ii) Visually inspect material that was previously considered nonfriable ACBM and touch the material to determine whether it has become friable since the last inspection or reinspection.
  - (iii) Identify any homogeneous areas with material that has become friable since the last inspection or reinspection.
  - (iv) For each homogeneous area of newly friable material that is already assumed to be ACBM, bulk samples may be collected and submitted for analysis in accordance with §§763.86 and 763.87.
  - (v) Assess, under §763.88, the condition of the newly friable material in areas where samples are collected, and newly friable materials in areas that are assumed to be ACBM.
  - (vi) Reassess, under §763.88, the condition of friable known or assumed ACBM previously identified.
  - (vii) Record the following and submit to the person designated under §763.84 a copy of such record for inclusion in the management plan within 30 days of the reinspection:
    - (A) The date of the reinspection, the name and signature of the person making the reinspection, State of accreditation, and if applicable, his or her accreditation number, and any changes in the condition of known or assumed ACBM.
    - (B) The exact locations where samples are collected during the reinspection, a description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, State of accreditation, and, if applicable, his or her accreditation number.
    - (C) Any assessments or reassessments made of friable material, the name and signature of the accredited inspector making the assessments, State of accreditation, and if applicable, his or her accreditation number.



- (c) *General.* Thermal system insulation that has retained its structural integrity and that has an undamaged protective jacket or wrap that prevents fiber release shall be treated as nonfriable and therefore is subject only to periodic surveillance and preventive measures as necessary.

§763.88 Assessment.

- (a)(1) For each inspection and reinspection conducted under §763.85 (a) and (c) and previous inspections specified under §763.99, the local education agency shall have an accredited inspector provide a written assessment of all friable known or assumed ACBM in the school building.
- (2) Each accredited inspector providing a written assessment shall sign and date the assessment, provide his or her State of accreditation, and if applicable, accreditation number, and submit a copy of the assessment to the person designated under §763.84 for inclusion in the management plan within 30 days of the assessment.
- (b) The inspector shall classify and give reasons in the written assessment for classifying the ACBM and suspected ACBM assumed to be ACM in the school building into one of the following categories:
  - (1) Damaged or significantly damaged thermal system insulation ACM.
  - (2) Damaged friable surfacing ACM.
  - (3) Significantly damaged friable surfacing ACM.
  - (4) Damaged or significantly damaged friable miscellaneous ACM.
  - (5) ACBM with potential for damage.
  - (6) ACBM with potential for significant damage.
  - (7) Any remaining friable ACBM or friable suspected ACBM.
- (c) Assessment may include the following considerations:
  - (1) Location and the amount of the material, both in total quantity and as a percentage of the functional space.
  - (2) Condition of the material, specifying:
    - (i) Type of damage or significant damage (e.g., flaking, blistering, water damage, or other signs of physical damage).
    - (ii) Severity of damage (e.g., major flaking, severely torn jackets, as opposed to occasional flaking, minor tears to jackets).
    - (iii) Extent or spread of damage over large areas or large percentages of the homogeneous area.
  - (3) Whether the material is accessible.
  - (4) The material's potential for disturbance.

- (5) Known or suspected causes of damage or significant damage (e.g., air erosion, vandalism, vibration, water).
- (6) Preventive measures which might eliminate the reasonable likelihood of undamaged ACM from becoming significantly damaged.
- (d) The local education agency shall select a person accredited to develop management plans to review the results of each inspection, reinspection, and assessment for the school building and to conduct any other necessary activities in order to recommend in writing to the local education agency appropriate response actions. The accredited person shall sign and date the recommendation, provide his or her State of accreditation, and, if applicable, provide his or her accreditation number, and submit a copy of the recommendation to the person designated under §763.84 for inclusion in the management plan.

## **II. RESPONSIBILITIES OF THE LOCAL EDUCATION AGENCY (LEA)**

The appointed LEA Designee must:

- A. The Designated Person must take an approved AHERA EPA asbestos course such as the Inspector/Management Planner or complete the EPA self-study guide including watching the CDPHE video.
- B. Ensure that the activities of any person who perform inspections, re-inspections, and periodic surveillance, develop and update management plans and develop and implement response actions, including operations and maintenance are carried out in accordance with subpart E of §763.84.
- C. Ensure that all custodial and maintenance employees are properly trained as required by subpart E of §763.84 and other applicable Federal and/or State regulations.
- D. Ensure that workers and building occupants or their legal guardians at least once each school year about inspections, reinspections and surveillance activities that are planned or in progress. Parent notification information must be put into the in the management plan.
- E. Ensure that maintenance personnel who would be required to disturb ACBM be given an additional 14 hours of training. O & M or worker training is available at environmental training centers located in many larger cities.
- F. Ensure that part time workers (e.g. telephone repair workers, utility workers or exterminators) who might come in contact with asbestos in a school are provided information regarding the locations of ACBM or assumed to be ACM.
- G. Ensure that warning labels are posted in accordance with §763.95
- H. Ensure that management plans are available for inspection and notification of such availability has been provided as specified in the management plan under §763.95 (g).
  - (1) Designate a person to ensure that requirements under this section are properly implemented.
  - (2) Ensure that the designated person receives adequate training to perform duties assigned under this section. All maintenance staff members need to receive a 2-hour asbestos awareness class

Such training shall provide as necessary to include the basic knowledge of:

- a) Health effects of asbestos exposure.
- b) What is asbestos and why it was used
- c) Detection, identification, and assessment of asbestos.
- d) Location of asbestos containing materials in their school.
- e) How not to disturb asbestos material
- f) How to recognize and report damage,
- g) Who to call and what information to give to the LEA in case of an accidental release
- h) Operation for controlling ACBM.
- i) Asbestos management programs.
- j) Relevant Federal and State regulations concerning asbestos, including those in subpart E and those of OSHA.

### **III. DESIGNATED PERSON**

The Designated person as directed by Pueblo City Schools School District 60 for being responsible for the implementation of the Management Plan is:

**Mr. Anthony Vigil**  
**Safety & Environmental Health Officer, Pueblo City Schools District #60**  
**1902 Montezuma**  
**Pueblo, CO 81003**

The responsibilities of the Plan, as stipulated in section §763.84 of the Asbestos Hazard Emergency Response Act, have been or will be met.

---

Signature of designated person

---

Date

### **Responsibilities of the LEA**

Local education agencies\* (LEAs) must safeguard children from airborne asbestos fibers in schools. Below is a brief summary of an LEA's responsibilities for asbestos inspections, reinspection's, abatement projects, non-friable floor tile removal, management plans and record keeping in schools.

Colorado's Asbestos Abatement Act and Code requires a designated person in each LEA to oversee all asbestos management plan activities. This person must receive adequate training, as required by the federal Asbestos Hazard Emergency Response Act (AHERA), about asbestos and its various uses and forms and about the health effects associated with asbestos exposure. He or she also must know the locations of asbestos-containing building material (ACBM) identified in school buildings and recognize deterioration and delamination of ACBM. The person also should be aware of the availability and location of the school's

management plan and have knowledge of upcoming renovation projects to determine if they will impact asbestos-containing materials (ACM).

Each LEA shall ensure the following:

1. Anyone who conducts any inspections, reinspection's, or abatement projects; develops or updates management plans; or performs operations and maintenance that will disturb ACM are licensed asbestos professionals.
2. All custodial and maintenance staff have received two-hour asbestos awareness training and 16 hours of operations and maintenance training as described in AHERA.
3. The parents, teachers and employee organizations are notified on an annual basis of all inspections, response actions and periodic surveillance that are planned or in progress in regard to asbestos in each school building.
4. Short-term workers (e.g., telephone repair workers, utility workers or exterminators) are informed of the locations of ACBM in school buildings.
5. Warning signs are posted immediately adjacent to ACM in routine maintenance areas that state, "Danger. Asbestos. Hazardous. Do Not Disturb Without Proper Training and Equipment."
6. Parents, teachers and employee organizations are notified in writing on an annual basis of the availability of the school's asbestos management plan.
7. The management plans are available for inspection in each school and the district office.
8. Records are properly maintained.
9. Each management plan contains a statement, signed by the designated person that certifies the LEA's responsibilities have been or will be met. The statement needs to be amended for each new designated person chosen by the LEA and notification of such changes sent to the Colorado Department of Public Health & Environment.
10. Reinspections are conducted at least once every three years after a management plan is in effect and the school reinspection form is sent to CDPHE within 30 days after the inspection.
11. All of the abatement records (final air clearances and manifests for abated bulk asbestos) are located in the AHERA inspection book and readily available for inspection.

**IV. APEC SAMPLE FINDINGS**

*No samples were obtained during the re-inspection of 2021*

**V. HAZARD ASSESSMENT AND RESPONSE ACTION EVALUATIONS**

Per previous re-inspections and this inspection all materials were touched to ascertain friability, with light finger pressure. Materials were assessed to determine the condition and the disturbance potential. A hazard potential number is assigned to the asbestos being assessed using the following criteria as determined by the rules and regulation as stated in the Regulation No 8 under the title “inspections”:

<b>Hazard</b>	<b>ACBM Condition</b>	<b>Disturbance Potential</b>
1	Poor	Any
2	Fair	High
3	Fair	Moderate
4	Fair	Low
5	Good	High
6	Good	Moderate
7	Good	Low

**VI. EVALUATION AND SELECTION OF CONTROL OPTIONS**

There are 5 Control Options alternatives available to the School. They include:

**Repair** – means returning damaged ACM or ACBM to an undamaged condition or to an intact state so as to prevent fiber release.

**Encapsulation** – means application of a liquid material to asbestos-containing material which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant). Painting for purposes other than controlling asbestos fibers is not considered encapsulation

**Enclosure** - an airtight, impermeable, permanent barrier around ACM to minimize the release of asbestos fibers into the air

**Removal** - means the taking out or the stripping of ACM or ACBM from a damaged area, a functional space, or a homogeneous area in or on a facility.

**Operations and Maintenance Program** - means a program of work practices developed by a certified management planner to maintain friable ACM or ACBM in good condition, ensure clean-up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACM or ACBM disturbance or damage.

## VII. COMMENTS/DISCREPANCIES/SUMMARY OF NEW FINDINGS

- CMU/Mortar Block filler has recently been defined as a suspect material and was never addressed in previous re-inspections. At this time it is assumed ACM – Located on all interior and exterior walls – Assessed August 2021
- Damaged 9X9 Floor tiles in cafeteria office, room 9, and media office
- Damaged Cove Base in room 26, 27, custodial closet, band room, and media office
- Hard pack TSI was found in Gym on HVAC units

## VIII. SIGNATURES

### ASBESTOS INSPECTOR

All-Phase Environmental Consultants Inc.



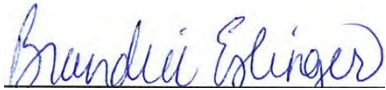
Joseph Cardenas

AHERA Certified Asbestos Inspector

Colorado Certified Asbestos Building Inspector Certification No. 24591

### MANAGEMENT PLANNER

All-Phase Environmental Consultants Inc.



Brandice Eslinger

AHERA Certified Asbestos Inspector

Colorado Certified Asbestos Building Inspector/Management Planner  
Certification No. 5494

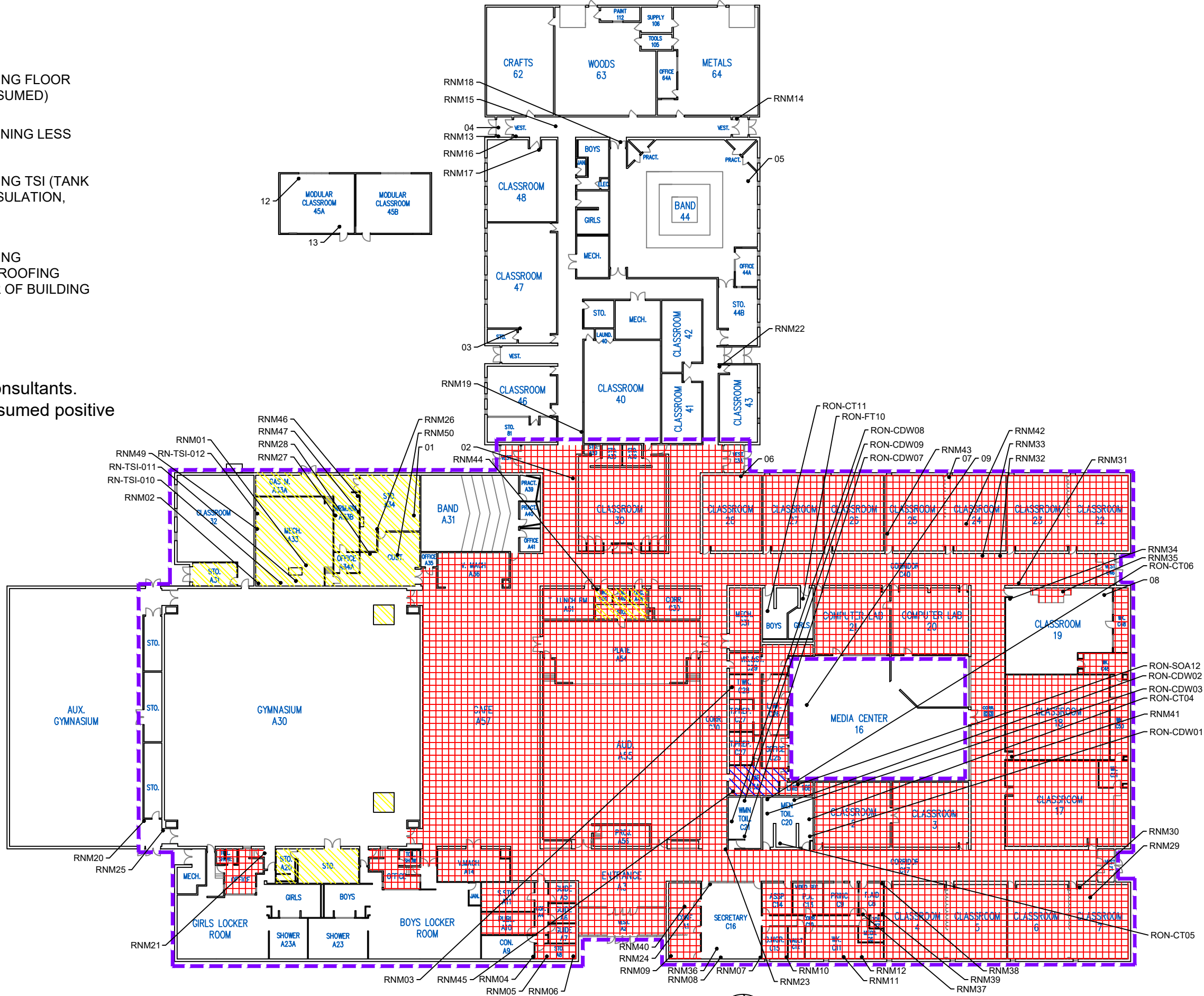
# Appendix A

## Site Map

LEGEND

- ASBESTOS CONTAINING FLOOR TILE (TESTED OR ASSUMED)
- CEILING TILE CONTAINING LESS THAN 1% ASBESTOS
- ASBESTOS CONTAINING TSI (TANK INSULATION, PIPE INSULATION, ETC.)
- ASBESTOS CONTAINING STRUCTURAL FIRE PROOFING AROUND PERIMETER OF BUILDING

NOTE:  
All sampling done by previous consultants.  
CMU filler within the school is assumed positive ACM



FIRST FLOOR PLAN  
NO SCALE

PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
APEC: Project #: 21-4541-AA  
DATE: 2021

NOTE:  
THIS DRAWING MUST BE  
PRINTED IN COLOR TO  
SHOW ALL INFORMATION  
ACCURATELY.

4302 HIGHWAY 78  
PUEBLO, COLORADO 81005



## Appendix B

# Reinspection and Assessment Data

## REINSPECTION AND ASSESSMENT DATA

**LEA: Pueblo School District #60**

**Building: Roncalli Middle School**

**Date: Completed August 12, 2021**

**Inspector Certification #: 24591**

**Inspector: Joseph Cardenas**

Description of ACBM or Assumed ACBM Homogeneous Areas	Type of Material		Damaged Y/N	AHERA Category	Comments and/or Change in Condition from Previous Inspection
	S/T/M	FR/NFR			
<b>1.0 TSI</b>	T	FR			
Pipe Insulation / Fittings	T	FR	Y	Damaged or SD TSI	As of previous inspection, fittings appear to have been removed in janitors closet to west of auditorium. Boiler room TSI appears to have been removed as well. Significant damage to fittings in gym area- remove fittings using properly certified personnel. Potential for disturbance is moderate
TSI Fittings in Gym	T	NFR	N	ACBM w/ Potential for dam	Identified in 2021 Inspection
<b>2.0 Surfacing Material - Wall or Ceiling Texturing</b>	S	FR			
Spray-on acoustical texturing	S	FR	Y	Significantly Damaged FR S	No significant changes from the previous reinspection. This material is unencapsulated and extremely friable. Debris from this material is lying on top of ceiling tiles throughout rooms along the building perimeter. Recommend abating this material ASAP. Potential for disturbance is High due to vibration and air movement.
Drywall walls/ceilings w/glossy texturing	S	FR	N	ACBM w/potential for damage	Material is in good condition throughout. Continue with O&M. Moderate potential for damage.
Hard walls/ceilings w/texturing	S	FR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for damage.
<b>3.0 Ceiling Tiles</b>					Non-ACM per previous reinspections.
<b>4.0 9x9 Floor Tile and Mastic- All types</b>	M	NFR			All types assumed.

## REINSPECTION AND ASSESSMENT DATA

**LEA: Pueblo School District #60**

**Building: Roncalli Middle School**

**Date: Completed August 12, 2021**

**Inspector Certification #: 24591**

**Inspector: Joseph Cradenas**

Description of ACBM or Assumed ACBM Homogeneous Areas	Type of Material		Damaged Y/N	AHERA Category	Comments and/or Change in Condition from Previous Inspection
	S/T/M	FR/NFR			
	M	NFR	Y	ACBM w/potential for damage	Minor cracking in rooms 17, 18, 21, 22, 23, and 26-keep tiles waxed and monitor damage. Damage previously noted in room 27 has been repaired. Continue with O&M. High potential for damage due to foot traffic. Rooms 18, 21, 22 and 26 are well waxed. RM 23 has carpet. Inside North Entrance missing tiles, should be replaced. Throughout building (classrooms and hallways) craked tile, gouges, missing tiles but all well waxed.
<b>5.0 12x12 Floor Tile and Mastic</b>	M	NFR			
Off white w/gray/tan mottled	M	NFR	N	ACBM w/potential for damage	Good condition, well waxed. Continue with O&M. High potential for disturbance.
Tan mottled	M	NFR	N	ACBM w/potential for damage	Good condition, well waxed. Continue with O&M. High potential for disturbance.
Tan w/bronze lines	M	NFR	N	ACBM w/potential for damage	Good condition, well waxed. Continue with O&M. High potential for disturbance.
Tan w/rust & white streaks	M	NFR	N	ACBM w/potential for damage	Material was listed as being in the portable building. Portable building was observed to have carpet. Assume tile is beneath carpet. Potential for disturbance is low.
<b>6.0 Vinyl Flooring</b>	M	NFR			
Vinyl strips	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.
<b>7.0 Tile under Carpet</b>	M	NFR	--	ACBM w/potential for damage	It is assumed that asbestos tile may be present under any carpeted areas. Cannot assess. Low potential for damage.
<b>8.0 Vinyl Wall Base w/mastic</b>	M	NFR			

## REINSPECTION AND ASSESSMENT DATA

**LEA: Pueblo School District #60**

**Building: Roncalli Middle School**

**Date: Completed August 12, 2021**

**Inspector Certification #: 24591**

**Inspector: Joseph Cardenas**

Description of ACBM or Assumed ACBM Homogeneous Areas	Type of Material		Damaged Y/N	AHERA Category	Comments and/or Change in Condition from Previous Inspection
	S/T/M	FR/NFR			
All types	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.
9.0 Countertops – all types	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.
10.0 Laboratory benchtops	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.

### AHERA CATEGORIES

- \_\_\_ Damaged or Significantly Damaged TSI
- \_\_\_ Damaged Friable Surfacing Material
- \_\_\_ Significantly Damaged Friable Surfacing Material
- \_\_\_ Damaged or Significantly Damaged Friable Misc. Material
- \_\_\_ ACBM with Potential for Damage
- \_\_\_ ACBM with Potential for Significant Damage
- \_\_\_ Any Remaining Friable ACBM or Friable Suspect ACBM

**S / T / M - Surfacing Material / TSI / Miscellaneous**  
**TSI - Thermal System Insulation**  
**FR / NFR - Friable / Non-Friable**  
**SD - Significantly Damaged**

# Appendix C Certifications



Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Joseph Cardenas**

**Certification No.: 24591**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued: May 20, 2021**

**Expires: June 10, 2022**

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative

SEAL





Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Brandice N. Eslinger**

**Certification No.: 5494**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Inspector/Management Planner\***

**Issued:** April 27, 2021

**Expires:** May 28, 2022

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative

SEAL

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

## **EXHIBIT 2**

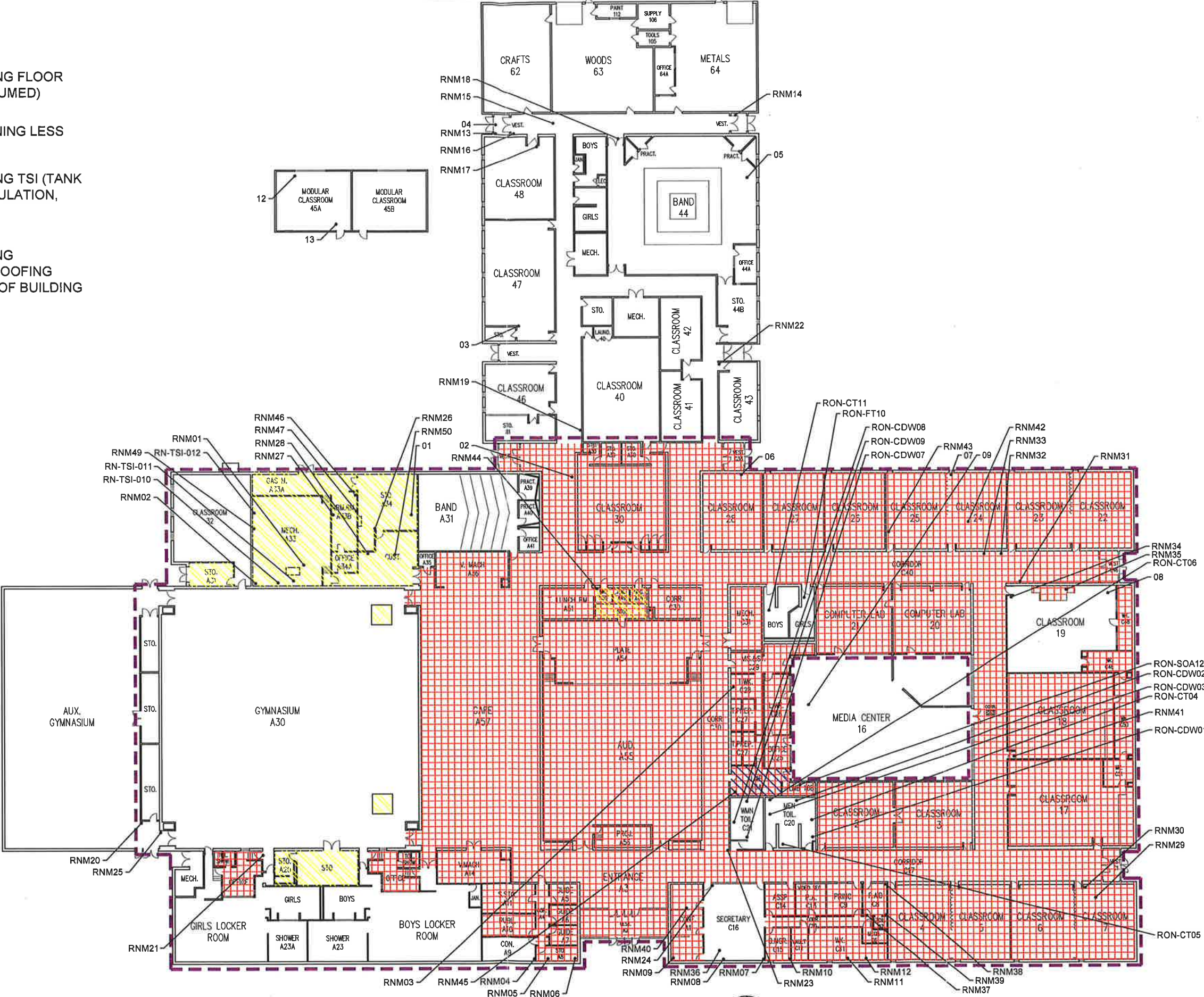
### **Supporting Asbestos Inventory Map – RHL**



LEGEND

- ASBESTOS CONTAINING FLOOR TILE (TESTED OR ASSUMED)
- CEILING TILE CONTAINING LESS THAN 1% ASBESTOS
- ASBESTOS CONTAINING TSI (TANK INSULATION, PIPE INSULATION, ETC.)
- ASBESTOS CONTAINING STRUCTURAL FIRE PROOFING AROUND PERIMETER OF BUILDING

NOTE:  
All sampling done by previous consultants.



FIRST FLOOR PLAN  
NO SCALE

**NOTE:**  
THIS DRAWING MUST BE  
PRINTED IN COLOR TO  
SHOW ALL INFORMATION  
ACCURATELY.

**RLH engineering, inc.**  
Facility Planning, Engineering, & Environmental Services  
541 East Garden Drive, Unit 10  
Wentworth, Colorado 80550  
Phone: (719) 396-5655  
Fax: (719) 396-5656

**PUEBLO SCHOOL DISTRICT #60**  
**RONCALLI MIDDLE SCHOOL**  
**ASBESTOS MANAGEMENT PLAN**  
4202 HIGHWAY 78  
PUEBLO, COLORADO 81005

DRAWING #: 1  
SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
RLH Project #: 12043  
DATE: AUGUST 2012  
CAD File: V:\12043\CAD\  
RONCALLI MS\_MP.DWG

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

**EXHIBIT 3**

**Combined Material Sampling Log**

**1989 - 2006**



**SAMPLE LOG**  
**RONCALLI MIDDLE SCHOOL**

<b>Sample Number</b>	<b>Sample Material</b>	<b>Sample Location</b>	<b>Asbestos Content (%)</b>	<b>Comments</b>
Orig 01	Ceiling panel 2x4	Shelf unit	ND	
Orig 02	FT 9x9 cream/tan	N wall L locker 574	CH 5 no mastic	
Orig 03	FT 12x12 blue	Room 47	ND no mastic	
Orig 04	FT 12x12 wht/tan	School Addition S exit	CH 4	
Orig 05	CT 2x4	N wall L locker 574	ND	
Orig 06	FT 9x9 cream/wht	NE corner N exit	CH 4 no mastic	
Orig 07	FT 9x9 tan	W wall R of window	CH 10	
Orig 08	FT 9x9 cream/tan	NW corner Rm 19	CH 10 no mastic	
Orig 09	CT 2x2	Media Center NW corner	ND	
Orig 10	Sheetrock wall	Rm Counselor A-7	ND	
Orig 11	FT 9x9 no description	Auditorium L side of stage	CH 20	
Orig 12	FT 12x12 wht/tan	S entry portable K24	CH 3 no mastic	
Orig 13	Ceiling panel 4x8	Portable building	ND	
RNM 01	pipe elbow	Main boiler room	CH 12 AM trace CROC 3	
RNM 02	Tank fitting	Main boiler room	CH 12 AM trace CROC 3	
RNM 03	Joint compound	Media Storage room	CH 4	
RNM 04	Spray-on fireproofing	Counselor's office above CT	CH 25	
RNM 05	Spray-on fireproofing	Counselor's office above CT	CH 25	
RNM 06	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 07	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 08	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 09	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 10	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 11	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 12	Spray-on fireproofing	Main office complex above CT	CH 25	
RNM 13	FT 12x12 tan mottled 2nd type	By S exit door	ND no mastic	
RNM 14	FT 12x12 tan mottled Type I	By N exit	CH 3 Mastic ND	
RNM 15	CT 2x4 Type II embossed	by Room 48	ND	

**SAMPLE LOG**  
**RONCALLI MIDDLE SCHOOL**

Sample Number	Sample Material	Sample Location	Asbestos Content (%)	Comments
RNM 16	CT 16x16 Type II	SE corner of hall FS 9a	ND	
RNM 17	Aggregate binder from support beams	By Room 48 doorway	ND	
RNM 18	CT 16x16 Type IV	By Music Room entrance	ND	
RNM 19	FT 12x12 olive green w/rust	Across from Room 46	ND mastic ND	
RNM 20	FT 12x12 Lt. tan mottled	Aux. Gym entrance	ND no mastic	
RNM 21	FT 12x12 wht w/gray	Before Girls RR	ND no mastic	
RNM 22	FT 12x12 Lt. tan mottled	Room 43	ND mastic ND	
RNM 23	FT 12x12	By Girls RR and Hall by main office	ND mastic ND	
RNM 24	FT 12x12 blue/gray	Main office doorway	ND	
RNM 25	Vinyl - lt gold	Aux. Gym entrance	ND mastic ND	
RNM 26	HW	Custodial Storage by boiler room & cust lounge	Trace CH	
RNM 27	DWC	Upper level room of boiler room by elec. Panels	ND	
RNM 28	DWW	Custodial Lounge	ND	
RNM 29	FT mottled w/brown	Room 7	ND mastic ND	
RNM 30	DWW	Room 7 by closet frame	CH 3	
RNM 31	DWW glossy finish	NW hall by locker 485	CH 3	
RNM 32	DWW glossy finish	Before door to Rm 20 NW hall	ND	
RNM 33	DWW glossy finish	NW hall above lockers 438/439	ND	
RNM 34	FT 12x12 gray mottled	Room 19	ND no mastic	
RNM 35	DWW	Room 19	ND	
RNM 36	CT 16x16 Type I	E wall of Main office	ND	
RNM 37	Ct 2x4 Type IV	Vacant room FS 55E	ND	
RNM 38	DWW	FS 55E Vacant room	ND	
RNM 39	FT 12x12 tan w/brn/wht streaks	Before RR	ND mastic ND	
RNM 40	CT 16x16 Type IV	Xerox/mail room	ND	
RNM 41	CT 16x16 Type III	Room 18	ND	

**SAMPLE LOG**  
**RONCALLI MIDDLE SCHOOL**

Sample Number	Sample Material	Sample Location	Asbestos Content (%)	Comments
RNM 42	FT 12x12 tan w/brn lines	Room 24	CH 4 mastic ND	
RNM 43	DWW	Room 25 S wall by bulletin board	ND	
RNM 44	DWC	Teachers Lounge FS 10 above entry	ND	
RNM 45	CT 16x16 Type V spray pattern	Rm 16A	Trace CH	
RNM 46	CT 2x4 Type I	From open box of CT in boiler room	ND	
RNM 47	CT 2x4 Type II	From open box of CT in boiler room	ND	
RNM 48	FT 12x12 off wht w/tan mottled	Custodial Storage FS 23A	ND mastic ND	
RNM 49	HW	Boiler Room S wall	ND	
RNM 50	HC	Custodial Lounge	ND	
RON-MEN'S-CDW01	Composite Drywall	Men's Restroom	Trace CH	Bond Program 2002
RON-MEN'S-CDW02	Composite Drywall	Men's Restroom	Trace CH	Bond Program 2002
RON-MEN'S-CDW03	Composite Drywall	Men's Restroom	Trace CH	Bond Program 2002
RON-MEN'S-CT04	2'x2' Ceiling Tile – random dot pattern	Men's Restroom	ND	Bond Program 2002
RON-MEN'S-CT05	2'x2' Ceiling Tile – chicken scratch pattern	Men's Restroom	ND	Bond Program 2002
RON-MEN'S-CT06	2'x2' Ceiling Tile – wavy, lunar pattern	Men's Restroom	ND	Bond Program 2002
RON-WOMEN'S-CDW07	Composite Drywall	Outside Women's Restroom On Impacted Wall	Trace CH	Bond Program 2002
RON-WOMEN'S-CDW08	Composite Drywall	Women's Restroom	ND	Bond Program 2002
RON-WOMEN'S-CDW09	Composite Drywall	Women's Restroom	Trace CH	Bond Program 2002
RON-WOMEN'S-FT10	9"x9" Floor Tile – tan with red streaks	Women's Restroom	Tile – 10 CH	Bond Program 2002
RON-MEN'S2-CT11	Ceiling Tile – chicken scratch pattern	Men's Restroom 2	ND	Bond Program 2002

2006 AHERA MANAGEMENT PLAN SUPPLEMENT

**SAMPLE LOG  
RONCALLI MIDDLE SCHOOL**

<b>Sample Number</b>	<b>Sample Material</b>	<b>Sample Location</b>	<b>Asbestos Content (%)</b>	<b>Comments</b>
RON-SOA-12	Insulation – white/tan	South Office Area	20 CH	Bond Program 2002
RNTSI010	TSI Fitting – blue	Boiler Room, East Wall At Chiller Pump	30 CH 20 AM	Bond Program 2002
RNTSI011	TSI Fitting – red	Boiler Room, East Wall At Chiller Pump	20 CH 10 AM	Bond Program 2002
RNTSI012	TSI Straight Run	Boiler Room, South Wall	ND	Bond Program 2002
RON-PF-300	Hard Pack Fitting	Main Entrance Area	15 CH	Bond Program 2002
RON-PF-301	Roof Drain Insulation – hard, white	Around Roof Drains	20 CH	Bond Program 2002
RON-PF-302	Hard Pack Fitting	Lobby Area	10 CH	Bond Program 2002
RON-PF-303	Hard Pack Fitting	In Hallway, By Room 30	15 CH	Bond Program 2002
RON-PF-304	Hard Pack Fitting	Hallway Junction, By West Side Cafeteria	10 CH	Bond Program 2002

*Note: 'No "Original" floor tile samples included mastic results.*

**Abbreviations:**

*CH – Chrysotile*

*ND – None Detected*

*ACT – Actinolite*

*TR – Tremolite*

*FT – Floor Tile*

*CT – Ceiling Tile*

*DWW – Drywall Wall*

*AM – Amosite*

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information				Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space	Space No.				
<b>Carpet</b>								
	Music Room and Office	8	Room 41	27	Manage in place w/O&M program	N/A	N/A	It is assumed that asbestos tile may be present under any carpeted areas
	Teacher's Lounge and Restroom	10	Room 43	28				
	Band Room, Office, Practice Rooms	20	Storage	56E				
	Room 42	25	Media Center	40				
<b>Countertop</b>								
pale	Office S of Media	47A			Manage in place w/O&M program	N/A	N/A	
green	Office S of Media	47A						
formica	Room 40 and laundry area	13	Mail Room/Xerox	55A				
	Room 47 and storage	15						
mango	Room 6	52						
mustard	Room 6	52	Office S of Media	47A				
	TV computer storage	46						
off white	Office off Media (with sink and fridge)	40A						
white w/gold marbling	Room 2	50						
woodgrain	Room 28	29						
yellow	Room 6	52						
<b>Floor Tile &amp; Mastic 12x12</b>								
Off white w/grey/tan mottled	Teacher's Lounge and Restroom	10			Repair/replace existing damage. Manage in place w/O&M program	1,700 s.f. @ \$5.00	\$8,500	
Off white w/tan mottled	Custodial Storage	23A						

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information			Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space				
	Band Storage	26					
Tan mottled Type I	Hallway to west end of bldg	9A					
Tan w/bronze lines	Room 24	33					
Tan w/rust and white streaks	Portable	57					
<b>Floor Tile w/Mastic - 9x9</b>				Repair/replace existing damage. Manage in place w/O&M program	75,000 s.f. @ \$5.00	\$375,000	
Beige w/grey, brown streaks	Custodial Storage	11					
Beige w/khaki smears	Room 6 Room 2	52 50					
Beige w/olive green streaks	Office Custodial Office Mail Room/Xerox Storage Vacant Room by Rm 4 Restroom Office off Media (with sink and fridge) Office off Media	1A 2A 55A 55C 55E 47B 40A 40B	Room A-5 Room A-6 Office Room A-7 Room 4 Office Storage Room A-10 Counselor's Office				
			56A 56B 56C 56D 56F 56G				
Brown marbled							
Cocoa brown	Room 24	33					
Cream w/olive green, grey streaks	Auditorium and Stage	X3					
Cream w/rust streaks and white	Cafeteria Serving Area Main Hallway Hall by rooms 2,3,4	1 9 9B	Room 30 Hall to counselors office				
			X2 56				
Dark beige	Room 24	33					
Dark beige w/khaki smears	NW HW of N wing	9(X)					



**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information			Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space				
Dark olive w/black, cream streaks	Vacant Room by Rm 4	55E					
Green w/green streaks	Office off Media	40B	Room 26		31		
	Office S of Media	47A	Room 25		32		
	Room 18	37	Room 23		34		
	Room 17	38	Room 27		30		
	Room 28	29	Room 21		42		
Green w/light green	Room 22	35					
Light beige	2nd storage room off room 19	37B	Locked		38A		
	Room 17	38					
Light beige w/khaki streaks	Room 28	29	Storage off room 18		37A		
	Room 27	30	Room 21		41		
	Room 26	31	Room 21		42		
	Room 25	32	Video Storage		45		
	Room 24	33	TV computer storage		46		
	Room 23	34	Office off Media & E/W hallway		47		
	Room 22	35	Office S of Media		47A		
	Room 19	36	Room 5		53		
	Storage Room off 19	36A	Room 4		54		
	Room 18	37					
Light brown w/dark brown cream streaks	Cafeteria Serving Area	1	Room 30		X2		
Light grey w/dark grey streaks	Auditorium and Stage	X3					
	Office off Media (with sink and fridge)	40A					
Light pumpkin	NW HW of N wing	9(X)					
Medium brown	Main Hallway (to offices and classrooms)	9					
Medium brown w/dark brown, cream streaks	Office off Media (with sink and fridge)	40A					
Medium brown w/off white streaks							

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information			Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space				
Medium brown	Room 23	34					
Off white w/grey, brown streaks	Main Hallway (to offices and classrooms)	9					
Off white, tan mottled	Cafeteria Serving Area	1					
Pale w/orange streaks	NW HW of N wing	9(X)	Cross HW				
Pumpkin	Office off Media (with sink and fridge)	40A	Room 3				
Green w/green streaks	Room 21 Video Storage	41 45	TV computer storage				
<b>Laboratory benchtops</b>				Manage in place w/O&M program	(200 sq. ft)	N/A	
	Room 19	36					
	Room 18	37					
	Room 17	38					
<b>Surfacing material – drywall walls/ceilings</b>				Manage in place w/O&M program	N/A	N/A	Recommend additional sampling to isolate ACM.
<b>(Non-ACBM by analysis but intentional disturbance will require exposure monitoring of personnel for compliance with the OSHA PEL</b>							

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information				Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space	Space No.				
(Construction Standard 29 CFR 1926.1101).								
Ceilings	Office Boiler Room and Storage Area Upper&Lower	1A	PE storage (both rooms)	7B				
		2B	Women's Coaches Office and Restroom	7C				
	Locker Room Girls	6	Teacher's Lounge and Restroom	10				
	Locker Room Boys	7	Room 64 Metals and Office/storage area	19				
	Office Boiler Room and Storage Area Upper&Lower	1A	Restroom Girls	22				
	Locker Room Girls	2B	Restroom Boys	23				
	Locker Room Boys	6	Custodial Storage	23A				
	Male Coaches Office/Restroom	7	Auditorium and Stage	X3				
		7A						
	Cafeteria Serving Area	1	Room A-6 Office	56B				
	Custodial Lounge	2	Room A-7	56C				
Walls	Music Room and Office	8	Room 4 Office Storage	56D				
	Hall by rooms 2,3,4	9B	Storage	56E				
	Teacher's Lounge and Restroom	10	Storage	56E				
	Band Room, Office, Practice Rooms	20	Room A-10	56F				
	Restroom Boys	23	Counselor's Office	56G				
	Room 30	X2	Room 21	41				
	Auditorium and Stage	X3	Room 6	52				
	Main Office	55	Room 2	50				
	Mail Room/Xerox Storage	55A	Media Center	40				
		55C	Office off Media (with sink and fridge)	40A				
	Custodial Storage/Supply unit	55D	Video Storage	45				
	11							

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information				Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space	Space No.				
	Hall to counselors office	56	TV computer storage	46				
	Room A-5	56A	Restroom Boys by computer room	43A				
	Office off Media	40B	Room 18	37				
	Office off Media & E/W Hall	47	Storage off room 18	37A				
	Room 26	31	2nd storage room off room 19	37B				
	Room 25	32	Room 17	38				
	Room 24	33	Locked	38A				
	Room 23	34	Room 28	29				
	Room 22	35	Room 3	39				
	Room 19	36	Room 4	54				
	Storage Room off 19	36A	Room 5	53				
	Room 27	30	Room 7	51				
	Vacant Room by Rm 4	55E	Restroom	47B				
	Restroom Boys	49	Office S of Media	47A				
Surfacing Material – drywall walls w/glossy text					Manage in place w/O&M program.	N/A	N/A	
(Non-ACBM by analysis but intentional disturbance will require exposure monitoring of personnel for compliance with the OSHA PEL								
(Construction Standard 29	NW HW of N wing	9(X)	Cross HW	X1				

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information			Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space				
CFR 1926.1101).							
Surfacing Material – hard walls/ceilings				Manage in place w/O&M program	N/A	N/A	
(Non-ACBM by analysis but intentional disturbance will require exposure monitoring of personnel for compliance with the OSHA PEL (Construction Standard 29 CFR 1926.1101).							
Ceilings	Custodial Lounge Custodial Storage	2 11	Auditorium and Stage		X3		
Walls	Cafeteria Serving Area Custodial Lounge Boiler Room and Storage Area Upper & Lower	1 2 2B	Restroom Media Center		47B 40		

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information			Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space				
<b>Surfacing Material – Spray-Applied Fireproofing</b>				Remove. Material is very friable.	10,000 s.f. @ \$40.00	\$400,000	
			Sprayed on fireproofing runs along the entire perimeter of the original building above the ceilings, according to district records, and above the center portion of classroom 30 (the original chapel). Access above the ceiling along the entire perimeter is restricted in some areas. All areas could not be visually verified.				
<b>Thermal System Insulation</b>							
TSI Hard pipe ins	PE storage (both rooms)	7B					
TSI Mudded fitting	Custodial Storage/Supply unit	55D	Boiler Room and Storage Area Upper & Lower				
TSI Mudded fitting	Gym	3	PE storage (both rooms)				
<b>Vinyl Flooring &amp; adhesive</b>							
Vinyl strip, 1 brown 1 yellow	Room 7	51					
Vinyl strip, brn/tan	Vacant Room by Rm 4	55E					
<b>Vinyl wall base &amp; mastic</b>							
VWB blk lg	Male Coaches Office/Restroom	7A	Women's Coaches Office and Restroom				
	PE storage (both rooms)	7B					
VWB Blk std	Locker Room Girls	6	Counselor's Office				
	Locker Room Boys	7	NW HW of N wing				
	Hallway to west end of bldg	9A	Room 21				
	Teacher's Lounge and Restroom	10	Room 6				
	Band Room, Office, Practice Rooms	20	Media Center				
	Room 42	25	Video Storage				
	Band Storage	26	TV computer storage				

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information		Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space	Space No.		
	Room 41	27	Office off Media & E/W hallway	47		
	Auditorium and Stage	X3	Office S of Media	47A		
	Main Office	55	Room 26	31		
	Mail Room/Xerox	55A	Room 25	32		
	Storage	55C	Room 24	33		
	Vacant Room by Rm 4	55E	Room 23	34		
	Hall to counselors office	56	Room 19	36		
	Room A-5	56A	Room 27	30		
	Room A-6 Office	56B	Room 21	42		
	Room A-7	56C	Storage off room 18	37A		
	Room 4 Office Storage	56D	2nd storage room off room 19	37B		
	Storage	56E	Locked	38A		
	Room A-10	56F	Room 28	29		
	Room 4	54	Room 5	53		
	Room 40 and laundry area	13				
	Office	1A	Room 43	28		
VWB brn lg VWB brn std	Custodial Office	2A	Room 21	41		
	Music Room and Office	8	Cross HW	X1		
	Main Hallway (to offices and classrooms)	9	Office off Media (with sink and fridge)	40A		
	Hall by rooms 2,3,4	9B	Office off Media	40B		
	Custodial Storage	11	Room 22	35		
	Room 40 and laundry area	13	Storage Room off 19	36A		
	Dark Room (film developing)	14	Room 21	42		
	Room 47 and storage	15	Room 17	38		
	Room 48	16	Room 3	39		
	Restroom Girls	22	Room 7	51		
	Mechanical Room	24				

**ABATEMENT COST SUMMARY & RESPONSE ACTIONS**  
**RONCALLI MIDDLE SCHOOL**

ACM Application	Functional Space Information				Recommended Response Action	Estimated Quantity	Estimated Removal Cost	Comments
	Functional Space	Space No.	Functional Space	Space No.				
VWB grey std	Teacher's Lounge and Restroom	10	Restroom Boys	23				
VWB med brn	Room 46 and Restroom	12	Custodial Storage	23A				
Locked	Room 2	50						
Locked	Office	55B	Girls RR by computer room	43B				
	Mechanical Room	44						

*Notes: 'No "Original" floor tile samples included mastic results.*

*If the materials described in this table are identified in locations other than those listed above, they should be assumed CM.*

**Abbreviations:**

ACBM – Asbestos-Containing Building Material

AHERA – Asbestos Hazard Emergency Response Act

AM – Amosite

CH – Chrysotile

DW – Drywall

DWC – Drywall Ceiling

ND – None Detected

FS – Functional Space



Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

**EXHIBIT 4**

**Demolition Inspection Report**

**All-Phase Environmental Consultants, Inc. - 2024**

## **Structure Demolition Assessment: ASBESTOS INSPECTION REPORT**

At

**Roncalli Stem Academy  
4202 CO-78  
Pueblo, CO 81005**



**Prepared for:  
District 60 - Pueblo City Schools**

**Report by:**



**Date(s) of Inspection: August 23 – September 6, 2024 / September 10, 2024 & September 20, 2024**

**Date(s) of Report: October 10, 2024**

**\*This document is not intended to be used as a bid spec, work plan, scope of work or similar\***

## Table of Contents

I.	Introduction .....	3
II.	Homogeneous Sampling Areas; Notes; and Observations .....	4
A.	Homogeneous Materials – Samples Obtained in 2024.....	4
B.	Previously Sampled ACM Materials – BOND/AHERA RE-INSPECTIONS.....	7
C.	Assumed ACM Materials .....	7
D.	Observations of non-sampled or limited samples of materials by All-Phase, due to prior samples being analyzed for the AHERA updates, Bond Improvement Construction and/or Interior Renovations and indicating ACM. ....	7
E.	Exceptions .....	8
III.	Compliance .....	8
A.	<i>Regulatory Compliance &amp; Requirements</i> .....	8
B.	<i>Laboratory Methods and Requirements</i> .....	10
IV.	Field Data & Laboratory Result Summary .....	11
V.	Laboratory Results Table – Confirmed Asbestos .....	22
VI.	Limitations .....	25
VII.	Appendices: .....	26
VIII.	Signature of Asbestos Inspector (s): .....	26
	APPENDIX 1 - FIELD SHEET/ASBESTOS RESULTS.....	27
	APPENDIX 2 - INSPECTION DIAGRAMS, HOMOGENOUS AND ACM FIGURES .....	28
	APPENDIX 3 - INSPECTION PHOTOGRAPHS .....	29
	APPENDIX 4 - ASBESTOS BULK SAMPLE REPORTS .....	36
	APPENDIX 5 - CHAIN OF CUSTODY FORMS.....	37
	APPENDIX 6 - ASBESTOS INSPECTOR & LABORATORY CERTIFICATIONS .....	38
	APPENDIX 7 – PAST ACM INSPECTION DOCUMENTATION – RONCALLI.....	39

**Prepared By: Logan Greenfield – Certification #20715**

**Reviewed By: Brandice Eslinger – Certification #5494**

## **I. Introduction**

Roncalli Stem Academy is located on the southwest side of Pueblo and is of four middle schools that is owned by Pueblo City Schools District #60. According to historical documentation the approximately 87,000 square feet original school was first constructed in 1965 by the Catholic School system. The Diocese closed the school in 1971 and was later reopened by District #60 in the late 70's. There have been several renovations/additions/asbestos abatement activities over the years, with a significant renovation in 2002 due to an approved bond issued for the school and various improvements. Other notable renovations were the addition of trade classrooms on the west end and an auxiliary gym just west of the original. The AHERA details these and the various abatement projects that have occurred over the past 50+ years up until the demolition that is planned for 2024. Although the AHERA has fairly detailed records, All-Phase certified personnel conducted thorough sampling, over several sampling events, as described below in detail and as indicated on the attached ***Field Sheet located in Appendix 1.***

From August 23<sup>rd</sup> to September 6<sup>th</sup>, 2024, and September 10<sup>th</sup> & 20<sup>th</sup>, 2024, Colorado Certified Asbestos Building Inspectors Logan Greenfield and Robert Sais with All-Phase Environmental Consultants, Inc. (APEC) conducted an Asbestos Inspection for verification/clarification of materials slated for demolition at Roncalli. This was a combination of supplemental sampling concurrent of the initial AHERA report, past bulk sampling events, periodic re-inspections, abatements, additions (bonds 2002 & 2014). The purpose was to identify and/or verify materials in all areas going to be impacted by future demolition activities. The property was vacated, and all areas were able to be assessed to include tunnels, above drop ceilings, tunnels and layers of walls, floors and ceilings.

<b>Personnel on Site</b>	<b>CDPHE Certification Number/Expiration</b>
<b>Logan Greenfield</b>	<b>20715/October 31, 2024</b>
<b>Robert Sais</b>	<b>23293/May 5, 2024</b>

***Certifications located in Appendix 6***

## **II. Homogeneous Sampling Areas; Notes; and Observations**

### **A. Homogeneous Materials – Samples Obtained in 2024**

1. Gloss Orange Peel Drywall
2. Textured Drywall – Patch Addition Walls
3. Brush Textured Drywall
4. Smooth Textured Drywall
5. Light Sand Textured Drywall\*
6. Rough Coat Material
7. Heavy Gloss Texture (concrete)
8. Smooth Textured Drywall
9. Textured Drywall
10. CMU Filler – White
11. CMU Filler – Tan
12. CMU Filler – Green
13. CMU Filler – Blue
14. Brick/Mortar
15. 9x9 VCT-Tan (verify)
16. 9x9 VCT-Peach (verify)
17. 12x12 VCT-Blue
18. 1"x1" Mosaic Tile/Mortar\*
19. Light Blue 4"x4" Ceramic
20. Teal 4"x4" Ceramic
21. White 4"x4" Ceramic
22. Blue 4"x4" Ceramic
23. Pink 4"x4" Ceramic
24. Epoxy Flooring – Blue
25. Epoxy Flooring – Green
26. 12x12 VCT – White/Black
27. 12x12 VCT – Tan/Brown
28. 12x12 VCT – Brown/Grey
29. 12x12 VCT – Tan/Grey
30. 12x12 VCT – Brown (tiger)
31. Blue Carpet/Adhesive
32. Brown Carpet/Adhesive
33. Purple Carpet/Adhesive
34. Dark Brown Carpet/Adhesive
35. Fireproofing Spray
36. Ceiling Tile – 2'x2' Star Pattern
37. Ceiling Tile – 2'x2' Fissure
38. Ceiling Tile – 2'x2' Textured
39. Ceiling Tile – 2'x4' Horizontal Fissure
40. Ceiling Tile – 12"x12" Dots
- A41. Ceiling Tile – 2'x4' Vertical Fissure

41. Ceiling Tile – 2'x4' Textured Glitter
42. Ceiling Tile – 2'x4' Star Pattern
43. Wall Pad Adhesive
44. Joint Compound (Drywall)
45. Rough Coat Plaster (Ext)
46. Painted Brick/Mortar
47. Brick/Mortar
48. Expansion Joint – Black
49. Window Caulk – Brown
50. Wall Base – Ceramic Block
51. Insulated Door Fill – Powder
52. Insulated Door Fill – Fiber
53. Rock Decorative Flooring
54. Blue Foam Panel Adhesive (tunnel)
55. Lab Tables
56. Sink Coating
57. Vibration Isolator – 1
58. Vibration Isolator – 2
59. Vibration Isolator – 3
60. Insulation Mat on Ducting
61. Rubber Floor Transition
62. Vermiculite
63. Pebble Pattern Sink Linoleum
64. Cove Base – Black 6"
65. Cove Base – Brown 4" #1
66. Cove Base – Light Brown 4"
67. Cove Base – Black 4" #1
68. Exterior Sealant – White #1
69. Exterior Sealant – Dark Brown
70. Exterior Sealant – White #2
71. Garage Doors Sealant – Brown/White
72. Man Doors Sealant – Black
73. Expansion Joint – Grey
74. Exterior Sealant – Tan
75. Vibration Isolator (tunnel)
76. Rock Prefab Facia #1
77. Rock Prefab Facia #2 w/transite
78. Transite Piping (below slab)
79. Double Drywall w/glue
80. Wall Glue/Adhesive
81. Ceiling Tile – 2'x4' Small Fissure
82. Perlite – Block In-Fill
83. Textured Drywall – Black Backing
84. Black Wood Base Mastic

85. 12x12 VCT – Black
86. Painted CMU
87. Ceramic Cove/Mortar
88. Window Glazing – Interior
89. Fireproofing – Beam & Drain (Gym)
90. Textured Drywall Ceiling – Auditorium
91. Textured Drywall – Skylights
92. Ceiling Tile – 12"x12"-Auditorium
- 93. HA 93 Removed – Duplicate HA**
94. Air Handler Door Mat
95. Vibration Isolator – Penthouse
96. Light Fixture Backing Paper
97. Tunnel Door – Gasket
98. Drywall Addition – Adhesive
99. Tan Sink Coating
100. Stucco Soffits (Ext)
101. Rough Coat Plaster – White\*
102. Hand Textured Drywall – Ceiling
103. Aux Gym Floor
104. Ceiling Tile – 2'x2'-Room 16A Confirmation
105. Carpet/Adhesive – Modular Only
106. Prefab Drywall Panels – Modular Only
107. Ceiling Tile 2'x4' – Modular Only
108. Asphalt Shingles/Backing – Modular Only
109. Plastic Roof Cap Coating
110. Cove Base – 4" Thick Brown
111. Cove Base – 4" Brown #2
112. Cove Base – 4" Black #2
113. Foam Insulation – Block In-Fill
114. Vinyl Drywall Ceiling Tile
115. Cove Base w/White Adhesive
116. FRP w/Adhesive
117. Gym Floor Tar Backing

**Roof – Homogeneous Areas – 9**

1. Lower Deck
2. Parapet – Skylight and wall
3. New Build – Deck
4. Main Deck – Obtained above Mech, Kitchen
5. Main Deck – Café, Old Gym
6. Parapet – Skylight and wall
7. Skylight – Deck
8. New Gym Deck
9. Parapet Wall

**\*Due to insufficient material on Samples 5B, 18B and 101C, APEC obtained additional samples in the location of the original to verify that layer was collected and analyzed. Sample 18B was originally obtained close to the threshold that bordered ACM VCT/Mastic and after additional investigation and review/discussions with the laboratory, mastic from the 9x9 impacted this sample. When the sample was re-obtained, it was done so in a manner not to impact the VCT mastic. This sample analyzed with no layer of mastic and non-detect.**

**B. Previously Sampled ACM Materials – BOND/AHERA RE-INSPECTIONS**

- 9x9 VCT/Mastic (all types and colors) – All hallways and rooms north of the Gym to include below any carpet. Rooms not included are specifically detailed in the attached material location map in **Appendix 2**.
- Fireproofing located on exterior walls on metal support beams.
- TSI Fittings located in the Tunnels and Mechanical Rooms.

**C. Assumed ACM Materials**

- Seam Paste located on Transite Pipes below slab...this material is not accessible at this time, therefore is assumed positive.

**D. Observations of non-sampled or limited samples of materials by All-Phase, due to prior samples being analyzed for the AHERA updates, Bond Improvement Construction and/or Interior Renovations and indicating ACM.**

- Not all 9X9 floor tiles and mastic were sampled, however APEC did obtain random confirmation samples that **confirmed ACM in both layers**.
- Fiberglass TSI with plastic fittings were not sampled. Previous samples were obtained during the Bond improvements. APEC verified that no remnant older TSI was remaining. All areas were cleared.
- Classroom 16A was listed as having “trace” Ceiling Tiles, however APEC obtained samples that analyzed as **non-detect**. APEC also verified above drop ceiling for any left/remaining Ceiling Tile and did not observe any suspect Tiles.
- Main Admin Offices had VCT/Mastic that was abated in 2008. Confirmation Samples were taken and shown to be **non-detect**.
- AHERA and past bulk inspections were performed on the plain drywall with joint compound above ceiling grids due to wire/security upgrades and did show non-detect analysis, however APEC pulled confirmation samples in areas and determined this material to be **less than 1% by point count method - OSHA Regulated**.
- HVAC pastes (gray/brown) were sampled as **non-detect** with Bond Improvements. Locations of samples were verified by APEC.
- **There is a Tunnel that transects areas of the school. APEC inspected all areas, and no damaged/displaced materials were observed. Pipe runs observed were verified to be fiberglass with ACM hard pack fittings.**



#### E. Exceptions

- This inspection was performed using information on materials originally sampled as observed in the multi-year AHERA report with updates, past bulk sampling events and abatement due to bonds, along with APECs sampling events. ***Some materials that were originally analyzed and were identified as an ACM, may not have been sampled.*** Some materials did not have the correct regulatory number of samples or APEC disagreed with the color or location descriptions; therefore supplemental/confirmation samples were taken.

### III. Compliance

#### A. Regulatory Compliance & Requirements

Asbestos surveys follow guidelines established under the U.S. Environmental Protection Agency's (USEPA) Asbestos Hazard and Response Act (AHERA) program and as required by USEPA regulation 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs shall be performed in strict accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling procedures detailed in 40 Code of Federal Regulations (CFR) 763.86. These include but aren't limited to labeling each sample, recording on a chain of custody, taking a photo of the sample, and recording the location on a site diagram. Any Demolition and/or Renovation work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by OSHA, EPA, CDPHE and Local Health Department. **An Asbestos inspection should always be conducted before any type of remodeling or demolition work occurs.**

The EPA and the CDPHE define asbestos containing materials (ACM's) as any materials which tests positive at greater than (>) 1% asbestos. According to AHERA, EPA, and the CDPHE, materials testing at less than (<) or equal to 1% asbestos fibers are not considered to be an ACM. Any friable confirmed *asbestos containing materials* (ACM's) will have to be removed by a licensed Colorado Asbestos Abatement Contractor (prior to being disturbed).

Suspect materials are divided into two types, **friable** and **non-friable**, based upon the material's consistency. **Friable** is a material that, when dry, can be reduced to a powder or crumbled by finger (hand) pressure only, thereby rendering the material friable and allowing suspected asbestos fibers to become airborne. Friable materials produce a human health risk if the fibers are asbestos. When airborne, the asbestos can be inhaled into the lungs causing future health problems and risks. **Non-friable** materials are miscellaneous building materials that in composition are hard and cannot be easily disturbed, and do not present a human health risk, unless activities such as crushing, sanding, or any activity that damages in a destructive way, such as during a demolition, causes its condition to become friable.

Suspect materials are divided into two types, friable and non-friable, based upon the material's consistency. Friable is a material that, when dry, can be reduced to a powder or crumbled by finger (hand) pressure only, thereby rendering the material friable and allowing suspected asbestos fibers to become airborne. Friable materials produce a human health risk if the fibers are asbestos. When airborne, the asbestos can be inhaled into the lungs causing future health problems and risks. Non-friable materials are miscellaneous building materials that in composition are hard and cannot be easily disturbed, and do not present a human health risk, unless activities such as crushing, sanding, or any activity that damages in a destructive way, such as during a demolition, causes its condition to become friable. Sample descriptions including friability, determination of homogenous areas and locations and categorization of materials are located on the **Field Sheet attached as Appendix 1.**

Sample locations are determined per homogeneous areas and are selected by dividing the homogeneous sampling area into nine equally sized subareas. This is done by dividing the length and breadth of the sampling area into three equal lengths and drawing a grid over the diagram. This can be done carefully by eye. Exact measurements are not needed.

If the homogeneous sampling area does not easily fit into a rectangular shape, parts of the grid might not be in the sampling area. This is not a problem in most cases. If, however, a large part of the grid falls outside the homogeneous sampling area (L-shaped), it is to be divided into two or more separate sampling areas, each of which is approximately rectangular, and select sample locations by applying the sampling scheme to each sampling area.

For greatest coverage, one sample from each of the nine grid regions should be collected. If fewer samples are to be collected, subareas are used in order to follow a random sampling scheme. For the first area intended to sample, personnel number the nine subareas. If three samples are needed, they are taken from the subareas marked 1, 2, 3, 4 and 5 and so on. Samples are collected from approximately the center of a subarea or as close as possible to the center if accessibility, presence of light fixtures, etc. make the center location impractical. If the material is drywall, it is common practice to find a "seam" so as to encompass the drywall, tape and mud all in a layered sample. If a subarea is specified that falls entirely outside the sampling area, the next specified subarea is used instead. For example, if subarea three falls outside the sampling area, the third sample is taken from subarea 4.

For very irregular-shaped areas, the homogeneous sampling area may be divided into nine subareas of approximately equal size that do not necessarily form a rectangular grid. When adapting sampling diagrams, the order of the numbered subareas from left to right and top to bottom, are retained, whenever possible. For each sampling area, a new diagram is generated.

### ***B. Laboratory Methods and Requirements***

All samples were delivered for analysis to EMSL Analytical, Inc. in Denver, Colorado or Cinnaminson, NJ, via FedEx. Both laboratories are a member of the National Voluntary Laboratory Accreditation Program (NVLAP) and are qualified to perform the required analysis (**See Appendix 6**). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763. According to section III.A.1.c of *Regulation Number 8* from the CDPHE, if the asbestos content of a sample of friable asbestos is estimated to be 1% asbestos or less, but greater than 0%, by a method other than point counting, the determination shall be repeated using the point count technique with polarized light microscopy.

The asbestos inspection was conducted in accordance with the Colorado Department of Health and Environment's (CDPHE) *Regulation 8. Three Hundred and Thirty-six (346) bulk samples* in total for all dates were collected at the Subject Property and on the **Chain of Custody Forms, Appendix 5**. The lab separated the 346 combined samples submitted into additional layers; there were **609 total layers analyzed, reference Field Sheet in Appendix 1**. The samples were given unique sample IDs and proper chain of custody procedures were utilized when sending all samples to EMSL Analytical. All materials assessed were in good condition throughout the Subject Property at the time of the inspection and damage observed today are from destructive sampling performed by APEC. **Reference the laboratory reports in Appendix 4.**

#### IV. Field Data & Laboratory Result Summary

**Red = Positive ACM**

**Blue=OSHA**

***\*\*\*Sample locations are indicated on the various figures in Appendix 2. The more substantial homogenous areas (HA's), i.e. floor tile throughout, are indicated on the Homogenous Area Location Map in Appendix 2. HA's that are in limited areas will be specified and explained on the field sheet or below due to the quantity of materials identified and in order to maintain the integrity of the maps/figures and locations of materials.***

Classroom numbers as listed on the Figures will be used and **NOT** what is shown on doors or walls as some are missing and/or moved.

##### **Initial 2024 APEC Sampling**

The Gloss Orange Peel Drywall (1A thru 1I) located on the walls, ceilings and soffits in hallways, restrooms, classrooms, and offices throughout the original construction was confirmed to be an **OSHA** Regulated Material by Point Count method:

- ***RMS-D-1A-Joint Compound is <1% Chrysotile (Point Count-.75%)***
- ***RMS-D-1A-Composite is <1% Chrysotile (Point Count-<.25%)***
- ***RMS-D-1C-Joint Compound is <1% Chrysotile (Point Count-.50%)***
- ***RMS-D-1C-Composite is <1% Chrysotile (Point Count-<.25%)***
- ***RMS-D-1G-Joint Compound is <1% Chrysotile (Point Count-.50%)***
- ***RMS-D-1G-Composite is <1% Chrysotile (Point Count-.8%)***

This material assessed in good condition at the time of the inspection and friable.

The Light Sand Textured Drywall (5A thru 5C & 5Q) located on the walls and ceiling soffits in the storage rooms of classroom 19 was confirmed to be an **OSHA** Regulated Material by Point Count method:

- ***RMS-D-5A-Texture/Joint Compound is <1% Chrysotile (Point Count-.75%)***
- ***RMS-D-5Q-Texture is <1% Chrysotile (Point Count-.25%)***
- ***RMS-D-5Q-Joint Compound is <1% Chrysotile (Point Count-.50%)***
- ***RMS-D-5Q-Composite is <1% Chrysotile (Point Count-.50%)***
- ***\*RMS-D-IM5B-Texture is <1% Chrysotile (Point Count-.25%)***
- ***RMS-D-5C-Texture is <1% Chrysotile (Point Count-<.25%)***

This material assessed in good condition at the time of the inspection and friable.

**\*This is a duplicate sample as initial PLM showed Insufficient material regarding the Texture Layer. APEC obtained a sample later in the exact location due to this finding.**

The Heavy Gloss Texture (7A thru 7C) was observed to be applied to the concrete ceilings located in the locker room showers only was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-7A is <1% Chrysotile (Point Count-<.25%)*
- *RMS-D-7B is <1% Chrysotile (Point Count-<.25%)*
- *RMS-D-7C is <1% Chrysotile (Point Count-<.25%)*

This material assessed in good condition at the time of the inspection and friable.

The Smooth Textured Drywall (8A thru 8G) observed on the ceilings of the Locker rooms was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-8G-Texture is <1% Chrysotile (Point Count-<.25%)*

This material assessed in good condition at the time of the inspection and friable.

The Textured Drywall (9A thru 9C & 9Q) located on the ceilings and separation walls in the Custodial/Mechanical rooms west of the Gym was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-9B-Texture is <1% Chrysotile (Point Count-.50%)*
- *RMS-D-9C-Texture is <1% Chrysotile (Point Count-.50%)*

This material assessed in good condition at the time of the inspection and friable.

The Tan 9x9 VCT and Mastic (15A & 15B) located in hallways, auditorium, media, staff rooms and classrooms throughout the original construction was confirmed to be an **ACM** by initial PLM method:

- *RMS-D-15A-VCT is 3% Chrysotile*
- *RMS-D-15A-Mastic/Leveler is 5% Chrysotile*
- *RMS-D-15B-VCT is 3% Chrysotile*
- *RMS-D-15B-Mastic is 8% Chrysotile*

This material was assessed in good condition at the time of the inspection and non-friable. ***Multiple 9x9 VCT's and associated mastics were previously sampled; however, APEC took these samples to verify as some colors were not easily delineated.***

The Peach 9x9 VCT and Mastic (16A & 16B) located in hallways, auditorium, media, staff rooms and classrooms throughout the original construction was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-16A-VCT/Mastic is 8% Chrysotile***
- ***RMS-D-16B-VCT/Mastic is 8% Chrysotile***

This material was assessed in good condition at the time of the inspection and non-friable. ***Multiple 9x9 VCT's and associated mastics were previously sampled as ACM's; however, APEC took these samples to verify as some colors were not easily delineated.***

The Adhesive only beneath the Light Blue 4x4 Ceramic Tiles (19A & 19B) observed only in Restroom C7 was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-19A-Adhesive is 3% Chrysotile***
- ***RMS-D-19B-Adhesive is 3% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Joint Compound on the Drywall beneath the Teal 4x4 Ceramic Wall Tiles (20A, 20B & 20Q) located on the walls in the Men's Restroom C20 was confirmed to be an **OSHA** Regulated Material by Point Count method:

- ***RMS-D-20A-Joint Compound is <1% Chrysotile (Point Count-.50%)***
- ***RMS-D-20Q-Joint Compound is <1% Chrysotile (Point Count-.50%)***
- ***RMS-D-20B-Joint Compound is <1% Chrysotile (Point Count-.75%)***

This material assessed in good condition at the time of the inspection and friable.

The Joint Compound on the Drywall beneath the Pink 4x4 Ceramic Wall Tiles (23A & 23B) located on the walls in the Boys and Girls Restroom near Computer Lab 21 was confirmed to be an **OSHA** Regulated Material by Point Count method:

- ***RMS-D-23B-Joint Compound is <1% Chrysotile (Point Count-.50%)***

This material assessed in good condition at the time of the inspection and friable.

The Mastic only located beneath the Tan/Brown 12x12 VCT (27A & 27B) located in the West Addition Hallways, Rooms 41, 42, 43 and Storage Room 44B was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-27B-Mastic is 5% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Mastic only located beneath the Brown/Grey 12x12 VCT (28A & 28B) located in the West Addition Restrooms and Rooms 41, 42, 43, 46 and 47 was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-28B-Mastic is 4% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Mastic only located beneath the Tan/Grey 12x12 VCT (29A, 29B & 29Q) located in the West Addition Rooms 40 and 48 was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-29A-Mastic is 5% Chrysotile***
- ***RMS-D-29B-Mastic is 5% Chrysotile***
- ***RMS-D-29Q-Mastic is 5% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Brown (tiger) 12x12 VCT only (Mastic ND) (30A & 30B) located in the Hallway that separates the West Addition and the Trade Rooms Addition to the far west was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-30A-VCT is 3% Chrysotile***
- ***RMS-D-30B-VCT is 3% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Adhesive/Leveler only of the Purple Carpet (33A & 33B) located in the Band room 44 and Security office A51 was confirmed to be an **OSHA** Regulated Material by Point Count method:

- ***RMS-D-33A-Adhesive/Leveler is <1% Chrysotile (Point Count-<.25%)***
- ***RMS-D-33B-Adhesive/Leveler is 2% Chrysotile (Point Count-<.25%)***

This material assessed in good condition at the time of the inspection and non-friable.

The Fireproofing Spray (35A thru 35E) located on the horizontal structural beams that are location on exterior walls and main support locations as shown in detail on the attached figures was confirmed to be an **ACM** by initial PLM method:

- **RMS-D-35A is 15% Chrysotile**
- **RMS-D-35B is 15% Chrysotile**
- **RMS-D-35C is 15% Chrysotile**
- **RMS-D-35D is 15% Chrysotile**
- **RMS-D-35E is 15% Chrysotile**

This material assessed in good condition at the time of the inspection and friable. ***This assessment includes all associated overspray and the areas from the beams out 6 feet above all drop ceilings is included and considered positive.***

The Drywall/Joint Compound (\*44A & 44B) above drop ceilings in the main hallways in A3, C30 and C40 was confirmed to be an **OSHA** Regulated Material by Point Count method:

- **RMS-D-44A-Joint Compound is 2% Chrysotile (Point Count-.25%)**
- **RMS-D-44A-Joint Compound 2 is 2% Chrysotile (Point Count-.25%)**
- **RMS-D-44A-Composite is <1% Chrysotile (Point Count-.50%)**
- **RMS-D-44B-Joint Compound is 2% Chrysotile (Point Count-.50%)**
- **RMS-D-44B-Joint Compound 2 is 2% Chrysotile (Point Count-.50%)**
- **RMS-D-44B-Composite is <1% Chrysotile (Point Count-.4%)**

This material assessed in good condition at the time of the inspection and friable.

***\*Samples 44C & 44D were initially combined within this homogenous material; however, after confirmation in the field showed this material to be in a location of Renovation when the Auxiliary Gym was constructed, they were separated. 44C & 44D – Non-Detect.***

The Rough Coat located on the covered entrances into the school (45A thru 45E & 45Q) on the Original Construction Area Only was confirmed to be an **OSHA** Regulated Material by Point Count method:

- **RMS-D-45A-Plaster is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45A-Plaster 2 is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45Q-Plaster is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45Q-Plaster 2 is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45B-Plaster is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45B-Plaster 2 is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45C-Plaster is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-45C-Plaster 2 is <1% Chrysotile (Point Count-.25%)**
- **RMS-D-45D-Plaster is <1% Chrysotile (Point Count-.25%)**
- **RMS-D-45E-Plaster is <1% Chrysotile (Point Count-<.25%)**

This material assessed in good condition at the time of the inspection and friable.



The Blue Foam Panel Adhesive (54A & 54B) is only located on the tunnel walls that are directly against the exterior foundations (east and west) in the Original Construction Area was confirmed to be an **ACM** by Point Count method:

- ***RMS-D-54A-Tar is 2% Chrysotile (Point Count-4.3%)***
- ***RMS-D-54B-Tar is 2% Chrysotile (Point Count-4.6%)***

This material assessed in good condition at the time of the inspection and non-friable.

The Laboratory Tables (55A & 55B) located in Room 18 was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-55A is 30% Chrysotile***
- ***RMS-D-55B is 30% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Sink Coating (56A & 56B) located in Room 19, 30 and its storage room to the southwest was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-56A is 5% Chrysotile***
- ***RMS-D-56B is 5% Chrysotile***

This material assessed in good condition at the time of the inspection and non-friable.

The Vibrations Isolators (all) (57A, 57B, 58A, 58B, 59A, 59B, 75A, 75B, 95A, 95B) located in all mechanical rooms, custodial closets, penthouse above stage, tunnels and above drop ceilings by air exchangers was confirmed to be an **ACM** by initial PLM method:

- ***RMS-D-57A is 50% Chrysotile***
- ***RMS-D-57B is 50% Chrysotile***
- ***RMS-D-58A is 50% Chrysotile***
- ***RMS-D-58B is 50% Chrysotile***
- ***RMS-D-59A is 50% Chrysotile***
- ***RMS-D-59B is 50% Chrysotile***
- ***RMS-D-75A is 70% Chrysotile***
- ***RMS-D-75B is 70% Chrysotile***
- ***RMS-D-95A is 50% Chrysotile***
- ***RMS-D-95B is 50% Chrysotile***

These materials assessed in good condition at the time of the inspection and friable.

The Insulation Mat on Ducting (60A thru 60C) observed in the Penthouse at the rear of the stage in the Auditorium was confirmed to be an **ACM** by initial PLM method:

- *RMS-D-60A-Adhesive/Wrap 2 is 50% Chrysotile*
- *RMS-D-60B-Adhesive/Wrap 2 is 50% Chrysotile*

This material assessed in good condition at the time of the inspection and friable.

The Adhesive/Leveler only located beneath the Rubber Floor Transitions (61A, 61B & 61Q) located in throughout in the hallways and into rooms was confirmed to be an **ACM** by Point Count Method:

- *RMS-D-61A-Adhesive/Leveler is <1% Chrysotile (Point Count-<.25%)*
- *RMS-D-61B-Adhesive is 2% Chrysotile (Point Count-1.1%)*
- *RMS-D-61Q-Adhesive is 4% Chrysotile (Point Count-1.5%)*

This material assessed in good condition at the time of the inspection and non-friable.

The Pebble Pattern Sink Linoleum/Adhesive (63A & 63B) only observed in Room 19's storage room-C48 was confirmed to be an **ACM** by initial PLM method:

- *RMS-D-63A-Linoleum/Adhesive is 15% Chrysotile*
- *RMS-D-63B-Linoleum/Adhesive is 15% Chrysotile*

This material assessed in good condition at the time of the inspection and friable.

The Joint Compound that was pulled from its Drywall substrate of the Cove Base-Brown 4" #1 (65A & 65B) located in the hallways/corridors C17, C53, C40 and classrooms within this area was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-65A-Joint Compound is <1% Chrysotile (Point Count-<.25%)*
- *RMS-D-65B-Joint Compound is <1% Chrysotile (Point Count-<.75%)*

This material assessed in good condition at the time of the inspection and friable.

The Adhesive only of the Cove Base-Black 4" #1 (67A & 67B) located in Rooms 17, 18, A48, A49, C50, A51, Corridor-C30 and the C30 Storage room was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-67A-Adhesive is <1% Anthophyllite (Point Count-<.25%)*
- *RMS-D-67A-Adhesive is <1% Anthophyllite (Point Count-<.25%)*

This material assessed in good condition at the time of the inspection and non-friable.

The Exterior Sealant-Dark Brown (seam caulking) (69A & 69B) located around all narrow windows in the Original Construction Area was confirmed to be an **ACM** by initial PLM Method:

- **RMS-D-69A is 4% Chrysotile**
- **RMS-D-69B is 4% Chrysotile**

This material assessed in good condition at the time of the inspection and non-friable.

The Rock Prefab Facia #2 – Transite Back (77A & 77B) located on the exterior at the roof line of the West Addition only was confirmed to be an **ACM** by initial PLM method:

- **RMS-D-77A-Transite is 20% Chrysotile**
- **RMS-D-77B-Transite is 20% Chrysotile**

This material assessed in good condition at the time of the inspection and non-friable.

The Transite Piping that is BELOW SLAB (78A thru 78C) located below the main concrete slabs in the Gymnasium-A30 and Auditorium-A55 was confirmed to be an **ACM** by initial PLM method:

- **RMS-D-78A-Transite is 20% Chrysotile & 10% Crocidolite**
- **RMS-D-78B-Transite is 20% Chrysotile & 10% Crocidolite**
- **RMS-D-78C-Transite is 20% Chrysotile & 10% Crocidolite**

This material assessed in good condition at the time of the inspection and non-friable. ***APEC reviewed multiple as-builds to help in locating the transite vent lines below slab. It is assumed that piping is also located on the north section of the Original Construction, however these maps are missing, and APEC could not locate pipes while on-site. The joints of the piping were observed to have paste/sealant but due to the depth and size of the piping this material could not be accessed. The paste/sealant is assumed positive until material can be unearthed.***

The Textured Drywall with Black Backing Paper (83A thru 83C) located in the Mechanical Rooms A33, A33A and A33B was confirmed to be an **OSHA** Regulated Material by Point Count method:

- **RMS-D-83A-Texture is <1% Chrysotile (Point Count-<.25%)**

This material assessed in good condition at the time of the inspection and friable.

The Black Wood Base Mastic (84A & 84B) located in the Gym-A30 but only observed on the west wall near room 32 was confirmed to be an **ACM** by initial PLM Method:

- **RMS-D-84A is 5% Chrysotile**
- **RMS-D-84B is 5% Chrysotile**

This material assessed in good condition at the time of the inspection and non-friable. ***APEC did remove other wooden base board throughout the gym and all other areas were observed to be nailed on. However, all bases will need to be removed to verify.***

The Window Glazing-Interior (88A, 88B & 88Q) is located at the separation of the Auxiliary Gym and Original Gym-A30. These windows appear to be original to the building and left in-place when the Auxiliary Gym was constructed. These windows and associated glazing were only observed in this area and was confirmed to be an **OSHA** Regulated Material by Point Count method:

- **RMS-D-88A is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-88B is <1% Chrysotile (Point Count-<.25%)**
- **RMS-D-88Q is <1% Chrysotile (Point Count-<.25%)**

This material assessed in good condition at the time of the inspection and non-friable.

The Fireproofing (89A thru 89C) located in the Gym-A30 on Structural Beams that surround the entire Gym and Roof Drains at their ceiling penetrations as shown in detail on the attached figures was confirmed to be an **ACM** by initial PLM method:

- **RMS-D-89A is 20% Chrysotile**
- **RMS-D-89B is 20% Chrysotile**
- **RMS-D-89C is 20% Chrysotile**

This material assessed in good condition at the time of the inspection and friable. ***This assessment includes all associated overspray on the beams and around the roof drain and the ceiling penetration. Fireproofing on the beams is located above the CMU Blocks where the Drywall begins and is enclosed behind.***

The Textured Drywall Ceiling (90A thru 90C) located in the Auditorium-A55 includes soffits and the stage area was confirmed to be an **OSHA** Regulated Material by Point Count method:

- **RMS-D-90B is <1% Chrysotile (Point Count-.50%)**
- **RMS-D-90C is <1% Chrysotile (Point Count-.25%)**

This material assessed in good condition at the time of the inspection and friable.

The Textured Drywall (91A thru 91C) located around and in the Skylights in the Cafeteria-room A57 was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-91A-Texture is <1% Chrysotile (Point Count-.25%)*
- *RMS-D-91B-Texture is <1% Chrysotile (Point Count-.25%)*

This material assessed in good condition at the time of the inspection and friable.

The Joint Compound that was pulled from its Drywall substrate of the 12x12 Ceiling Tiles (92A & 92B) located on the ceilings of the Auditorum-A55 at the two main entrances was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *RMS-D-92A-Joint Compound is 2% Chrysotile (Point Count-.75%)*
- *RMS-D-92B-Joint Compound is 2% Chrysotile (Point Count-.75%)*

This material assessed in good condition at the time of the inspection and friable.

The Light Fixture Backing Paper (96A, 96B & 96Q) only observed in the Concessions Room A14 was confirmed to be an **ACM** by initial PLM method:

- *RMS-D-96Q is 40% Chrysotile*
- *RMS-D-96A is 40% Chrysotile*
- *RMS-D-96B is 40% Chrysotile*

This material assessed in good condition at the time of the inspection and friable.

The White Rough Coat Plaster (101A thru 101C) located on the covered entrances into the school on the West Addition at the far east entrances was confirmed to be an **OSHA** Regulated Material by Point Count method:

- *\*RMS-D-IM101C-Rough Plaster is <1% Chrysotile (Point Count-<.25%)*

This material assessed in good condition at the time of the inspection and friable.

**\*This is a duplicate sample as initial PLM showed Insufficient material regarding the Rough Plaster Layer. APEC obtained a sample later in the exact location due to this finding.**

The Gym Floor-Tar Backing (117A & 117B) only observed in the Gymnasium-A30 directly beneath the wood floor and directly on the concrete substrate was confirmed to be an **ACM** by initial PLM method:

- **RMS-D-117A is 7% Chrysotile**
- **RMS-D-117B is 5% Chrysotile**

This material assessed in good condition at the time of the inspection and non-friable. ***Even though this material is currently non-friable, APEC will require that it is removed prior to any demolition activities due to its quantity, substrate and difficulty of removal that will render material friable with heavy demolition equipment.***

#### **September 10, 2024 – APEC Roof Sampling**

The Roofing Tar and Tar Paper layer (3A & 3B) located over the Trades Addition on the far west was confirmed to be an **ACM** by initial PLM method:

- **RON-R-3A-Tar is 5% Chrysotile**
- **RON-R-3A-Tar Paper is 10% Chrysotile**
- **RON-R-3B-Tar is 5% Chrysotile**

These materials assessed in good condition at the time of the inspection. ***APEC notated in the field that the Tar Paper base was inseparable from the overlying Tar. Both layers were able to be observed in the field and assessed as Non-Friable.***

The Roofing layer on the Parapet walls around the Skylights (6A & 6B) are located throughout the roof was confirmed to be an **ACM** by initial PLM method:

- **RON-R-6A-Roofing 1 is 7% Chrysotile**
- **RON-R-6B-Tar Paper is 5% Chrysotile**
- **RON-R-6B-Tar is 3% Chrysotile**

These materials assessed in good condition at the time of the inspection. ***APEC notated in the field that the Tar Paper base was inseparable from the overlying Tar. All layers analyzed were observed in the field and were assessed as Non-Friable.***

## V. Laboratory Results Table – Confirmed Asbestos

**One Hundred and Twenty-one (121)** samples and/or layers (*see Photographs in Appendix 3 and Sampling Locations in the Appendix 2*) were confirmed to be an Asbestos Containing Material (ACM) by initial PLM method. Initial PLM and any sample layers that were later analyzed by the Point Count method are described below:

Sample ID	Material/Layer	Asbestos Content	Point Counts	Regulation
RMS-D-1A	Joint Compound	<1% Chrysotile	<b>0.75%</b>	OSHA
RMS-D-1A	Composite	<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-1C	Joint Compound	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-1C	Composite	<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-1G	Joint Compound	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-1G	Composite	<1% Chrysotile	<b>0.8%</b>	OSHA
RMS-D-5A	Texture/JC	<1% Chrysotile	<b>0.75%</b>	OSHA
RMS-D-5Q	Texture	<1% Chrysotile	<b>0.25%</b>	OSHA
RMS-D-5Q	Joint Compound	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-5Q	Composite	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-IM5B	Texture	<1% Chrysotile	<b>0.25%</b>	OSHA
RMS-D-5C	Texture	<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-7A	Texture	<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-7B		<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-7C		<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-8G	Texture	<1% Chrysotile	<b>&lt;0.25%</b>	OSHA
RMS-D-9B	Texture	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-9C	Texture	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-15A	VCT	3% Chrysotile	N/A	ACM
RMS-D-15A	Mastic/Leveler	5% Chrysotile	N/A	ACM
RMS-D-15B	VCT	3% Chrysotile	N/A	ACM
RMS-D-15B	Mastic	8% Chrysotile	N/A	ACM
RMS-D-16A	VCT/Mastic	8% Chrysotile	N/A	ACM
RMS-D-16B	VCT/Mastic	8% Chrysotile	N/A	ACM
RMS-D-19A	Adhesive	3% Chrysotile	N/A	ACM
RMS-D-19B	Adhesive	3% Chrysotile	N/A	ACM
RMS-D-20A	Joint Compound	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-20Q	Joint Compound	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-20B	Joint Compound	<1% Chrysotile	<b>0.75%</b>	OSHA
RMS-D-23B	Joint Compound	<1% Chrysotile	<b>0.50%</b>	OSHA
RMS-D-27B	Mastic	5% Chrysotile	N/A	ACM
RMS-D-28B	Mastic	4% Chrysotile	N/A	ACM
RMS-D-29A	Mastic	5% Chrysotile	N/A	ACM
RMS-D-29B	Mastic	5% Chrysotile	N/A	ACM

Sample ID	Material/Layer	Asbestos Content	Point Counts	Regulation
RMS-D-29Q	Mastic	5% Chrysotile	N/A	ACM
RMS-D-30A	VCT	3% Chrysotile	N/A	ACM
RMS-D-30B	VCT	3% Chrysotile	N/A	ACM
RMS-D-33A	Adhesive/Leveler	<1% Chrysotile	<0.25%	OSHA
RMS-D-33B	Adhesive/Leveler	2% Chrysotile	<0.25%	OSHA
RMS-D-35A	Fireproofing	15% Chrysotile	N/A	ACM
RMS-D-35B		15% Chrysotile	N/A	ACM
RMS-D-35C		15% Chrysotile	N/A	ACM
RMS-D-35D		15% Chrysotile	N/A	ACM
RMS-D-35E		15% Chrysotile	N/A	ACM
RMS-D-44A	Joint Compound	2% Chrysotile	0.25%	OSHA
RMS-D-44A	Joint Compound	2% Chrysotile	0.25%	OSHA
RMS-D-44A	Composite	<1% Chrysotile	0.50%	OSHA
RMS-D-44B	Joint Compound	2% Chrysotile	0.50%	OSHA
RMS-D-44B	Joint Compound	2% Chrysotile	0.50%	OSHA
RMS-D-44B	Composite	<1% Chrysotile	0.4%	OSHA
RMS-D-45A	Plaster	<1% Chrysotile	<0.25%	OSHA
RMS-D-45A		<1% Chrysotile	<0.25%	OSHA
RMS-D-45Q		<1% Chrysotile	<0.25%	OSHA
RMS-D-45Q		<1% Chrysotile	<0.25%	OSHA
RMS-D-45B		<1% Chrysotile	<0.25%	OSHA
RMS-D-45B		<1% Chrysotile	<0.25%	OSHA
RMS-D-45C		<1% Chrysotile	<0.25%	OSHA
RMS-D-45C		<1% Chrysotile	0.25%	OSHA
RMS-D-45D		<1% Chrysotile	0.25%	OSHA
RMS-D-45E		<1% Chrysotile	<0.25%	OSHA
RMS-D-54A	Tar	2% Chrysotile	4.3%	ACM
RMS-D-54B	Tar	2% Chrysotile	4.6%	ACM
RMS-D-55A	Lab Table	30% Chrysotile	N/A	ACM
RMS-D-55B	Lab Table	30% Chrysotile	N/A	ACM
RMS-D-56A	Sink Coating-Black	5% Chrysotile	N/A	ACM
RMS-D-56B		5% Chrysotile	N/A	ACM
RMS-D-57A	Vibration Isolator	50% Chrysotile	N/A	ACM
RMS-D-57B		50% Chrysotile	N/A	ACM
RMS-D-58A		50% Chrysotile	N/A	ACM
RMS-D-58B		50% Chrysotile	N/A	ACM
RMS-D-59A		50% Chrysotile	N/A	ACM
RMS-D-59B		50% Chrysotile	N/A	ACM
RMS-D-75A		70% Chrysotile	N/A	ACM
RMS-D-75B		70% Chrysotile	N/A	ACM
RMS-D-95A		50% Chrysotile	N/A	ACM



Sample ID	Material/Layer	Asbestos Content	Point Counts	Regulation
RMS-D-95B	Vibration Isolator	50% Chrysotile	N/A	ACM
RMS-D-60A	Adhesive/Wrap	50% Chrysotile	N/A	ACM
RMS-D-60B		50% Chrysotile	N/A	ACM
RMS-D-61A	Adhesive/Leveler	<1% Chrysotile	<0.25%	ACM
RMS-D-61B	Adhesive	2% Chrysotile	1.1%	ACM
RMS-D-61Q	Adhesive	4% Chrysotile	1.5%	ACM
RMS-D-63A	Linoleum/Adhesive	15% Chrysotile	N/A	ACM
RMS-D-63B		15% Chrysotile	N/A	ACM
RMS-D-65A	Joint Compound	<1% Chrysotile	0.25%	OSHA
RMS-D-65B	Joint Compound	<1% Chrysotile	0.75%	OSHA
RMS-D-67A	Adhesive	<1% Anthophyllite	<0.25%	OSHA
RMS-D-67A	Adhesive	<1% Anthophyllite	<0.25%	OSHA
RMS-D-69A	Sealant/Caulk	4% Chrysotile	N/A	ACM
RMS-D-69B	Sealant/Caulk	4% Chrysotile	N/A	ACM
RMS-D-77A	Transite	20% Chrysotile	N/A	ACM
RMS-D-77B		20% Chrysotile	N/A	ACM
RMS-D-78A	Transite	20% Chrysotile 10% Crocidolite	N/A	ACM
RMS-D-78B			N/A	ACM
RMS-D-78C			N/A	ACM
RMS-D-83A	Texture	<1% Chrysotile	<0.25%	OSHA
RMS-D-84A	Mastic	5% Chrysotile	N/A	ACM
RMS-D-84B		5% Chrysotile	N/A	ACM
RMS-D-88A	Glazing	<1% Chrysotile	<0.25%	OSHA
RMS-D-88B		<1% Chrysotile	<0.25%	OSHA
RMS-D-88Q		<1% Chrysotile	<0.25%	OSHA
RMS-D-89A	Fireproofing	20% Chrysotile	N/A	ACM
RMS-D-89B		20% Chrysotile	N/A	ACM
RMS-D-89C		20% Chrysotile	N/A	ACM
RMS-D-90A	Texture	<1% Chrysotile	0.50%	OSHA
RMS-D-90B		<1% Chrysotile	0.25%	OSHA
RMS-D-90C		<1% Chrysotile	0.25%	OSHA
RMS-D-91B	Texture	<1% Chrysotile	0.25%	OSHA
RMS-D-92A	Joint Compound	2% Chrysotile	0.75%	OSHA
RMS-D-92B		2% Chrysotile	0.75%	OSHA
RMS-D-96Q	Lighting Paper	40% Chrysotile	N/A	ACM
RMS-D-96A		40% Chrysotile	N/A	ACM
RMS-D-96B		40% Chrysotile	N/A	ACM
RMS-D-IM101C	Plaster	<1% Chrysotile	<0.25%	OSHA
RMS-D-117A	Tar	7% Chrysotile	N/A	ACM
RMS-D-117B		5% Chrysotile	N/A	ACM
RON-R-3A	Tar	5% Chrysotile	N/A	ACM

Sample ID	Material/Layer	Asbestos Content	Point Counts	Regulation
RON-R-3A	Tar Paper	10% Chrysotile	N/A	ACM
RON-R-3B	Tar	5% Chrysotile	N/A	ACM
RON-R-6A	Roofing Layer	7% Chrysotile	N/A	ACM
RON-R-6B	Tar Paper	5% Chrysotile	N/A	ACM
RON-R-6B	Tar	3% Chrysotile	N/A	ACM

NA = Not  
Applicable

## VI. Limitations

Accessibility may have been a limiting condition. A Colorado Certified Building Inspector used reasonable diligence and professional judgment to identify all potential asbestos containing materials in the Subject Property. Materials that are not visible from the surface, i.e., wall cavity insulation, may not have been sampled. This inspection complies with standards and protocol established by the Asbestos Hazardous Emergency Response Act (AHERA) and the CDPHE's, *Regulation 8*. APEC will not be responsible for additional costs associated with future sampling, including services provided by a third party. ACM's that will be disturbed should be handled according to CDPHE, EPA, and OSHA protocol. Materials containing ANY amount of asbestos should be handled according to OSHA protocol.

APEC makes no warranty either expressed or implied as to the completeness of the information contained herein. APEC will not be held liable for property damage or any loss of property value due to the inspection. APEC will not be held responsible for ACMs identified in additional areas of the Subject Property and/or any results of future asbestos inspections. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

- If additional impacted suspect **ACM** or **ACBM** are discovered during renovations, servicing, or maintenance related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos; or assume the material(s) to be asbestos-containing materials, quantify and remove on a unit cost basis.
- Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

## **VII. Appendices:**

### **The attached Appendices include:**

1. Field Sheet/Asbestos Results
2. Inspection Diagrams and ACM Maps
3. Inspection Photographs
4. Asbestos Bulk Sample Report (Lab results)
5. Chain of Custody Forms
6. Asbestos Inspector Certifications & Laboratory Certifications
7. Past ACM Inspection Documentation - Roncalli

## **VIII. Signature of Asbestos Inspector (s):**



**Logan Greenfield**  
**AHERA/EPA Certified Asbestos Inspector**  
**Colorado Certified Asbestos Building Inspector**  
**Certification No. 20715**  
**E-mail: [logan@allphaseenvironmental.com](mailto:logan@allphaseenvironmental.com)**



---

**Robert Sais**  
**AHERA/EPA Certified Asbestos Inspector**  
**Colorado Certified Asbestos Building Inspector**  
**Certification No. 23993**  
**E-mail: [robert@allphaseenvironmental.com](mailto:robert@allphaseenvironmental.com)**

**All-Phase Environmental Consultants Inc.**  
**721 West 9<sup>th</sup> Street**  
**Pueblo, Colorado 81003**  
**Ph. (719) 545-0375**  
**Visit us at [www.allphaseenvironmental.com](http://www.allphaseenvironmental.com)**

## **APPENDIX 1 - FIELD SHEET/ASBESTOS RESULTS**

# Field Sheet/Asbestos Results

Site Address: Roncalli Stem Academy - 4202 CO-78, Pueblo, CO 81005  
Colorado Certified Asbestos building Inspector(s): Logan Greenfield & Robert Sais

APEC # 24-5808	DATE INSPECTED: 8/23/24 thru 9/6/2024, 9/10/2024 & 9/20/2024									
Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
HA 1	RMS-D-1A	Gloss Orange Peel Drywall	Wall, Ceilings, Soffits and Columns in the Original Construction	Joint Compound	Good	<1% Chrysotile	0.75%	~19,173	Surfacing	Friable
	RMS-D-1A			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1A			Composite		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-1B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1C			Joint Compound		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-1C			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1C			Composite		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-1D			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1E			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1F			Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-1F			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1G			Joint Compound		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-1G			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1G			Composite		<1% Chrysotile	0.80%		Surfacing	Friable
	RMS-D-1H			Drywall		ND	NA		Surfacing	Friable
	RMS-D-1I			Drywall		ND	NA		Surfacing	Friable
HA 2	RMS-D-2A	Textured Drywall - Patch Addition	Added Walls when partitions were removed during the bond. Separates rooms 4&5, 6&7, 22&23, 24&35	Texture	Good	ND	NA	~918	Surfacing	Friable
	RMS-D-2A			Drywall		ND	NA		Surfacing	Friable
	RMS-D-2B			Texture/Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-2B			Tape		ND	NA		Surfacing	Friable
	RMS-D-2B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-2C			Texture		ND	NA		Surfacing	Friable
HA 3	RMS-D-3A	Brush Textured Drywall	Patition wall added to the Media Center-16 in the northwest corner	Drywall	Good	ND	NA	~510	Surfacing	Friable
	RMS-D-3A			Texture/Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-3A			Tape		ND	NA		Surfacing	Friable
	RMS-D-3B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-3B			Texture		ND	NA		Surfacing	Friable
	RMS-D-3B			Texture		ND	NA		Surfacing	Friable
	RMS-D-3C			Drywall		ND	NA		Surfacing	Friable
	RMS-D-3C			Texture/Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-3C			Tape		ND	NA		Surfacing	Friable
HA 4	RMS-D-4A	Smooth Textured Drywall	Wall Added to back of the Auditorium Stage to provide storage space.	Drywall	Good	ND	NA	~252	Surfacing	Friable
	RMS-D-4A			Texture		ND	NA		Surfacing	Friable
	RMS-D-4A			Tape		ND	NA		Surfacing	Friable
	RMS-D-4A			Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-4B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-4B			Texture		ND	NA		Surfacing	Friable
	RMS-D-4B			Tape		ND	NA		Surfacing	Friable
	RMS-D-4B			Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-4B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-4C			Texture		ND	NA		Surfacing	Friable
	RMS-D-4C			Tape		ND	NA		Surfacing	Friable
	RMS-D-4C			Joint Compound		ND	NA		Surfacing	Friable
	RMS-D-4C			Drywall		ND	NA		Surfacing	Friable
	RMS-D-4C			Drywall		ND	NA		Surfacing	Friable
HA 5	RMS-D-5A	Light Sand Textured Drywall	Back storage rooms on walls and soffits in Rooms 18 & 19.	Texture/Joint Compound	Good	<1% Chrysotile	0.75%	~840	Surfacing	Friable
	RMS-D-5A			Tape		ND	NA		Surfacing	Friable
	RMS-D-5A			Drywall		ND	NA		Surfacing	Friable
	RMS-D-5Q			Texture		<1% Chrysotile	0.25%		Surfacing	Friable
	RMS-D-5Q			Tape		ND	NA		Surfacing	Friable
	RMS-D-5Q			Joint Compound		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-5Q			Drywall		ND	NA		Surfacing	Friable
	RMS-D-5Q			Composite		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-5B			Texture		Insufficient Material	NA		Surfacing	Friable
	RMS-D-IM5B			Texture		<1% Chrysotile	0.25%		Surfacing	Friable
	RMS-D-5B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-5C			Texture		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-5C			Drywall		ND	NA		Surfacing	Friable
	RMS-D-5C			Drywall		ND	NA		Surfacing	Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
HA 6	RMS-D-6A	Rough Coat Material	Located on the walls and ceilings of Mechanical Room C31	Rough Coat	Good	ND	NA	~864	Miscellaneous	Friable
	RMS-D-6A			Foam Board		ND	NA		Miscellaneous	Friable
	RMS-D-6A			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-6B			Rough Coat		ND	NA		Miscellaneous	Friable
	RMS-D-6B			Foam Board		ND	NA		Miscellaneous	Friable
	RMS-D-6B			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-6C			Rough Coat		ND	NA		Miscellaneous	Friable
	RMS-D-6C			Foam Board		ND	NA		Miscellaneous	Friable
	RMS-D-6C			Adhesive		ND	NA		Miscellaneous	Friable
HA 7	RMS-D-7A	Heavy Gloss Texture (concrete)	Located on the ceilings of the showers in both boys and girls locker rooms. This material is applied on concrete.	Concrete	Good	<1% Chrysotile	<0.25%	~780	Surfacing	Friable
	RMS-D-7B			Concrete		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-7C			Concrete		ND	NA		Surfacing	Friable
	RMS-D-7C			Concrete		<1% Chrysotile	<0.25%		Surfacing	Friable
HA 8	RMS-D-8A	Smooth Textured Drywall	Located on the ceilings of both boys and girls locker rooms, offices and storage areas.	Texture	Good	ND	NA	~2,730	Surfacing	Friable
	RMS-D-8A			Drywall		ND	NA		Surfacing	Friable
	RMS-D-8B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-8C			Texture		ND	NA		Surfacing	Friable
	RMS-D-8C			Drywall		ND	NA		Surfacing	Friable
	RMS-D-8D			Texture		ND	NA		Surfacing	Friable
	RMS-D-8D			Drywall		ND	NA		Surfacing	Friable
	RMS-D-8E			Drywall		ND	NA		Surfacing	Friable
	RMS-D-8F			Texture		ND	NA		Surfacing	Friable
	RMS-D-8F			Drywall		ND	NA		Surfacing	Friable
	RMS-D-8G			Texture		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-8G			Drywall		ND	NA		Surfacing	Friable
HA 9	RMS-D-9A	Textured Drywall	Addition wall that separates the custodian locker room and storage room A34 & ceilings in those rooms	Drywall	Good	ND	NA	~897	Surfacing	Friable
	RMS-D-9B			Texture		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-9B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-9C			Drywall		ND	NA		Surfacing	Friable
	RMS-D-9C			Texture		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-9C			Drywall		ND	NA		Surfacing	Friable
HA 10	RMS-D-10A	CMU Filler - White	Located throughout Original Construction on the south end	Paint/Coating	Good	ND	NA	~26,306	Surfacing	Friable
	RMS-D-10A			CMU		ND	NA		Surfacing	Friable
	RMS-D-10B			CMU		ND	NA		Surfacing	Friable
	RMS-D-10C			CMU		ND	NA		Surfacing	Friable
	RMS-D-10D			CMU		ND	NA		Surfacing	Friable
	RMS-D-10E			CMU		ND	NA		Surfacing	Friable
	RMS-D-10F			CMU		ND	NA		Surfacing	Friable
	RMS-D-10G			CMU		ND	NA		Surfacing	Friable
HA 11	RMS-D-11A	CMU Filler - Tan	Located in the hallways of the West Addition	CMU/Filler	Good	ND	NA	~2,952	Surfacing	Friable
	RMS-D-11B			CMU		ND	NA		Surfacing	Friable
	RMS-D-11C			CMU		ND	NA		Surfacing	Friable
	RMS-D-11D			CMU		ND	NA		Surfacing	Friable
	RMS-D-11E			CMU		ND	NA		Surfacing	Friable
HA 12	RMS-D-12A	CMU Filler - Green	Located in the Rooms of the West Addition	CMU	Good	ND	NA	~4,264	Surfacing	Friable
	RMS-D-12B			CMU		ND	NA		Surfacing	Friable
	RMS-D-12C			CMU		ND	NA		Surfacing	Friable
	RMS-D-12D			CMU		ND	NA		Surfacing	Friable
	RMS-D-12E			CMU		ND	NA		Surfacing	Friable
HA 13	RMS-D-13A	CMU Filler - Blue	Located in the Trades Addition-Far West	CMU	Good	ND	NA	~4,876	Surfacing	Friable
	RMS-D-13Q			CMU		ND	NA		Surfacing	Friable
	RMS-D-13B			Paint/CMU		ND	NA		Surfacing	Friable
	RMS-D-13C			Paint/Adhesive		ND	NA		Surfacing	Friable
	RMS-D-13C			CMU		ND	NA		Surfacing	Friable
	RMS-D-13D			CMU		ND	NA		Surfacing	Friable
	RMS-D-13E			CMU		ND	NA		Surfacing	Friable
HA 14	RMS-D-14A	Brick/Mortar	Located in all vestibules and Exterior of School	Brick	Good	ND	NA	~35,895	Miscellaneous	Friable
	RMS-D-14A			Mortar		ND	NA		Miscellaneous	Friable
	RMS-D-14B			Brick		ND	NA		Miscellaneous	Friable
	RMS-D-14B			Mortar		ND	NA		Miscellaneous	Friable
	RMS-D-14C			Brick		ND	NA		Miscellaneous	Friable
	RMS-D-14C			Mortar		ND	NA		Miscellaneous	Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
HA 14	RMS-D-14D	Brick/Mortar	Located in all vestibules and Exterior of Original Construction	Brick	Good	ND	NA	~35,895	Miscellaneous	Friable
	RMS-D-14D			Mortar		ND	NA		Miscellaneous	Friable
HA 15	RMS-D-15A	Tan 9x9 VCT/Mastic	Located throughout Original Construction Area - Halls, Rooms - Includes all other colors/types of 9x9	VCT	Good	3% Chrysotile	NA	~54,770	Miscellaneous	Non-Friable
	RMS-D-15A			Mastic/Leveler		5% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-15B			VCT		3% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-15B			Mastic		8% Chrysotile	NA		Miscellaneous	Non-Friable
HA 16	RMS-D-16A	Peach 9x9 VCT/Mastic		VCT/Mastic	Good	8% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-16B			VCT/Mastic		8% Chrysotile	NA		Miscellaneous	Non-Friable
HA 17	RMS-D-17A	Blue 12x12 VCT/Mastic	Located in the Admin office area	VCT	Good	ND	NA	~896	Miscellaneous	Non-Friable
	RMS-D-17A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-17B			VCT		ND	NA		Miscellaneous	Non-Friable
	RMS-D-17B			Mastic		ND	NA		Miscellaneous	Non-Friable
HA 18	RMS-D-18A	1"x1" Mosaic Tile/Mortar	Located in Restroom C20 and Boys & Girls restroom south of room 21-Flooring	Tile	Good	ND	NA	~840	Miscellaneous	Non-Friable
	RMS-D-18A			Grout/Mortar		ND	NA		Miscellaneous	Non-Friable
	RMS-D-18A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-18B			Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-18B			Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-18B			Grout/Mortar		ND	NA		Miscellaneous	Non-Friable
	RMS-D-18B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 19	RMS-D-19A	Light Blue 4x4 Ceramic Tile	Located in Restroom C7 in the Admin Office Area	Ceramic Tile	Good	ND	NA	~144	Miscellaneous	Non-Friable
	RMS-D-19A			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-19A			Adhesive		3% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-19B			Ceramic Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-19B			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-19B			Adhesive		3% Chrysotile	NA		Miscellaneous	Non-Friable
HA 20	RMS-D-20A	Teal 4x4 Ceramic Tile	Located on the walls in Restroom C20	Ceramic Tile	Good	ND	NA	~738	Miscellaneous	Non-Friable
	RMS-D-20A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-20A			Joint Compound		<1% Chrysotile	0.50%		Miscellaneous	Friable
	RMS-D-20Q			Ceramic Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-20Q			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-20Q			Joint Compound		<1% Chrysotile	0.50%		Miscellaneous	Friable
	RMS-D-20B			Ceramic Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-20B			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-20B			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-20B			Joint Compound		<1% Chrysotile	0.75%		Miscellaneous	Friable
HA 21	RMS-D-21A	White 4x4 Ceramic Tile	Located on the walls in Restrooms C20 & C21	Ceramic Tile	Good	ND	NA	~686	Miscellaneous	Non-Friable
	RMS-D-21A			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-21A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-21B			Ceramic Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-21B			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-21B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 22	RMS-D-22A	Blue 4x4 Ceramic Tile	Located on the walls in Restrooms C21	Ceramic Tile	Good	ND	NA	~746	Miscellaneous	Non-Friable
	RMS-D-22A			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-22A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-22B			Ceramic Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-22B			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-22B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 23	RMS-D-23A	Pink 4x4 Ceramic Tile	Located in Boys & Girls restroom south of room 21-walls	Ceramic Tile	Good	ND	NA	~1,189	Miscellaneous	Non-Friable
	RMS-D-23A			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-23A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-23B			Ceramic Tile		ND	NA		Miscellaneous	Non-Friable
	RMS-D-23B			Grout		ND	NA		Miscellaneous	Non-Friable
	RMS-D-23B			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-23B			Joint Compound		<1% Chrysotile	0.50%		Miscellaneous	Friable
HA 24	RMS-D-24A	Epoxy Flooring - Blue	Located in Women's Restroom-C21	Epoxy	Good	ND	NA	~280	Miscellaneous	Non-Friable
	RMS-D-24A			Epoxy		ND	NA		Miscellaneous	Non-Friable
	RMS-D-24A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-24B			Epoxy		ND	NA		Miscellaneous	Non-Friable
	RMS-D-24B			Mastic		ND	NA		Miscellaneous	Non-Friable
HA 25	RMS-D-25A	Epoxy Flooring - Green	Located in the Boy's Locker Room	Epoxy	Good	ND	NA	~1,770	Miscellaneous	Non-Friable
	RMS-D-25A			Concrete		ND	NA		Miscellaneous	Non-Friable
	RMS-D-25B			Epoxy/Concrete		ND	NA		Miscellaneous	Non-Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Collection Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
HA 26	RMS-D-26A	12x12 VCT - White/Black	Girl's Locker Room and associated office and storage rooms	VCT	Good	ND	NA	~2,247	Miscellaneous	Non-Friable
	RMS-D-26A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-26B			VCT		ND	NA		Miscellaneous	Non-Friable
	RMS-D-26B			Mastic		ND	NA		Miscellaneous	Non-Friable
HA 27	RMS-D-27A	12x12 VCT - Tan/Brown	West Addition Halls and Classrooms	VCT	Good	ND	NA	~9,305	Miscellaneous	Non-Friable
	RMS-D-27A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-27B			VCT		ND	NA		Miscellaneous	Non-Friable
	RMS-D-27B			Mastic		5% Chrysotile	NA		Miscellaneous	Non-Friable
HA 28	RMS-D-28A	12x12 VCT - Brown/Grey	West Addition Classrooms and Restrooms	VCT	Good	ND	NA	~9,305	Miscellaneous	Non-Friable
	RMS-D-28A			Mastic		4% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-28B			VCT		ND	NA		Miscellaneous	Non-Friable
	RMS-D-28B			Mastic/Leveler		ND	NA		Miscellaneous	Non-Friable
HA 29	RMS-D-29A	12x12 VCT - Tan/Grey	West Addition Classrooms 40 & 48	VCT	Good	ND	NA	~815	Miscellaneous	Non-Friable
	RMS-D-29A			Mastic/Leveler		5% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-29B			VCT		ND	NA		Miscellaneous	Non-Friable
	RMS-D-29B			Mastic/Leveler		5% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-29Q			VCT		ND	NA		Miscellaneous	Non-Friable
	RMS-D-29Q			Mastic/Leveler		5% Chrysotile	NA		Miscellaneous	Non-Friable
HA 30	RMS-D-30A	12x12 VCT - Brown (tiger)	Located in the Hallway that separates the West Addition and the Trades Addition	VCT	Good	3% Chrysotile	NA	~815	Miscellaneous	Non-Friable
	RMS-D-30A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-30B			VCT		3% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-30B			Mastic/Leveler		ND	NA		Miscellaneous	Non-Friable
HA 31	RMS-D-31A	Blue Carpet/Adhesive	Located in the Media Center-16	Carpet	Good	ND	NA	~3,610	Miscellaneous	Non-Friable
	RMS-D-31A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-31B			Carpet		ND	NA		Miscellaneous	Non-Friable
	RMS-D-31B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 32	RMS-D-32A	Brown Carpet/Adhesive	Located in the Band Room-A31	Carpet	Good	ND	NA	~930	Miscellaneous	Non-Friable
	RMS-D-32A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-32B			Carpet		ND	NA		Miscellaneous	Non-Friable
	RMS-D-32B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 33	RMS-D-33A	Purple Carpet/Adhesive	Located in rooms A51 & 44	Carpet	Good	ND	NA	~3,204	Miscellaneous	Non-Friable
	RMS-D-33A			Adhesive/Leveler		<1% Chrysotile	<0.25%		Miscellaneous	Non-Friable
	RMS-D-33B			Carpet		ND	NA		Miscellaneous	Non-Friable
	RMS-D-33B			Adhesive/Leveler		<1% Chrysotile	<0.25%		Miscellaneous	Non-Friable
HA 34	RMS-D-34A	Dark Brown Carpet/Adhesive	Located in offices/practice rooms of the Band Room-A31	Carpet	Good	ND	NA	~171	Miscellaneous	Non-Friable
	RMS-D-34A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-34B			Carpet		ND	NA		Miscellaneous	Non-Friable
	RMS-D-34B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 35	RMS-D-35A	Fireproofing Spray	Horizontal Structural Beams at Exterior walls and main supports	Fireproofing	Good	15% Chrysotile	NA	~6,939	Surfacing	Friable
	RMS-D-35B			Fireproofing		15% Chrysotile	NA		Surfacing	Friable
	RMS-D-35C			Fireproofing		15% Chrysotile	NA		Surfacing	Friable
	RMS-D-35D			Fireproofing		15% Chrysotile	NA		Surfacing	Friable
	RMS-D-35E			Fireproofing		15% Chrysotile	NA		Surfacing	Friable
HA 36	RMS-D-36A	Ceiling Tile - 2'x2' Star Pattern	Ceiling Tiles are Mixed throughout School All Areas and Additions	Ceiling Tile	Good	ND	NA	~73,301	Miscellaneous	Friable
RMS-D-36B	Ceiling Tile	ND		NA		Miscellaneous	Friable			
HA 37	RMS-D-37A	Ceiling Tile - 2'x2' Fissure		Ceiling Tile	Good	ND	NA		Miscellaneous	Friable
	RMS-D-37B			Ceiling Tile		ND	NA		Miscellaneous	Friable
	RMS-D-37Q			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 38	RMS-D-38A	Ceiling Tile - 2'x2' Textured		Ceiling Tile	Good	ND	NA		Miscellaneous	Friable
	RMS-D-38B			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 39	RMS-D-39A	Ceiling Tile - 2'x4' Horizontal Fissure		Ceiling Tile	Good	ND	NA		Miscellaneous	Friable
	RMS-D-39B			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 40	RMS-D-40A	Ceiling Tile - 12"x12" Dots	Located at the entry of Room 28	Ceiling Tile	Good	ND	NA	~12	Miscellaneous	Friable
	RMS-D-40A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-40B			Ceiling Tile		ND	NA		Miscellaneous	Friable
	RMS-D-40B			Mastic		ND	NA		Miscellaneous	Non-Friable
HA A41	RMS-D-A41A	Ceiling Tile - 2'x4' Vertical Fissure	Ceiling Tiles are Mixed throughout School All Areas and Additions	Ceiling Tile	Good	ND	NA	~73,301	Miscellaneous	Friable
	RMS-D-A41B			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 41	RMS-D-41A	Ceiling Tile - 2'x4' Textured Glitter		Mastic	Good	ND	NA		Miscellaneous	Non-Friable
	RMS-D-41A			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 42	RMS-D-41B	Ceiling Tile - 2'x4' Star Pattern		Ceiling Tile	Good	ND	NA		Miscellaneous	Friable
	RMS-D-42A			Ceiling Tile		ND	NA		Miscellaneous	Friable
	RMS-D-42B			Ceiling Tile		ND	NA		Miscellaneous	Friable



Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft²	Material Category	Friability
HA 43	RMS-D-43A	Wall Pad Adhesive	Located in the Gym under backboards	Adhesive	Good	ND	NA	~625	Miscellaneous	Non-Friable
	RMS-D-43A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-43B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 44	RMS-D-44A	Joint Compound on Drywall	Located above drop ceiling in Entrance A3, Corr. C30 and Corr. C40	Joint Compound	Good	2% Chrysotile	0.25%	~1870	Miscellaneous	Friable
	RMS-D-44A			Tape		ND	NA		Miscellaneous	Friable
	RMS-D-44A			Joint Compound		2% Chrysotile	0.25%		Miscellaneous	Friable
	RMS-D-44A			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-44A			Composite		<1% Chrysotile	0.50%		Miscellaneous	Friable
	RMS-D-44B			Joint Compound		2% Chrysotile	0.50%		Miscellaneous	Friable
	RMS-D-44B			Tape		ND	NA		Miscellaneous	Friable
	RMS-D-44B			Joint Compound		2% Chrysotile	0.50%		Miscellaneous	Friable
	RMS-D-44B			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-44B			Composite		<1% Chrysotile	0.40%		Miscellaneous	Friable
HA 44 (newer)	RMS-D-44C	Joint Compound on Drywall	Located in the Aux. Gym Storage Rooms	Joint Compound	Good	ND	NA	~263	Miscellaneous	Friable
	RMS-D-44C			Tape		ND	NA		Miscellaneous	Friable
	RMS-D-44C			Joint Compound		ND	NA		Miscellaneous	Friable
	RMS-D-44C			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-44D			Tape		ND	NA		Miscellaneous	Friable
	RMS-D-44D			Joint Compound		ND	NA		Miscellaneous	Friable
	RMS-D-44D			Drywall		ND	NA		Miscellaneous	Friable
HA 45	RMS-D-45A	Rough Coat Plaster (Exterior)	Located on the Covered Entrances into the school on the Original Construction Area	Plaster	Good	<1% Chrysotile	<0.25%	~2,154	Surfacing	Friable
	RMS-D-45A			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45Q			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45Q			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45B			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45B			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45C			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45C			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45D			Plaster		<1% Chrysotile	0.25%		Surfacing	Friable
	RMS-D-45D			Plaster		<1% Chrysotile	0.25%		Surfacing	Friable
	RMS-D-45E			Plaster		ND	NA		Surfacing	Friable
	RMS-D-45E			Plaster		<1% Chrysotile	<0.25%		Surfacing	Friable
	RMS-D-45E			Plaster		ND	NA		Surfacing	Friable
	RMS-D-46A	Painted Brick/Mortar	Seperation wall between the West Addition and the Trades Addition	Paint/Coating	Good	ND	NA	~825	Miscellaneous	Friable
	RMS-D-46A			Brick		ND	NA		Miscellaneous	Friable
	RMS-D-46A			Mortar		ND	NA		Miscellaneous	Friable
	RMS-D-46B			Brick		ND	NA		Miscellaneous	Friable
	RMS-D-46B			Mortar		ND	NA		Miscellaneous	Friable
HA 47	RMS-D-47A	Brick/Mortar	Located in all vestibules and Exterior of School	Brick	Good	ND	NA	~35,895	Miscellaneous	Friable
	RMS-D-47A			Mortar		ND	NA		Miscellaneous	Friable
	RMS-D-47B			Brick		ND	NA		Miscellaneous	Friable
	RMS-D-47B			Mortar		ND	NA		Miscellaneous	Friable
HA 48	RMS-D-48A	Expansion Joint - Black	Vertical Expansion Joints on Exterior	Expansion Joint	Good	ND	NA	~867	Miscellaneous	Non-Friable
	RMS-D-48A			Foam		ND	NA		Miscellaneous	Non-Friable
	RMS-D-48B			Expansion Joint/Foam		ND	NA		Miscellaneous	Non-Friable
HA 49	RMS-D-49A	Window Caulk - Brown	Window Pane Caulking	Paint/Caulk	Good	ND	NA	~97	Miscellaneous	Non-Friable
	RMS-D-49A			Foam		ND	NA		Miscellaneous	Non-Friable
	RMS-D-49B			Caulk		ND	NA		Miscellaneous	Non-Friable
HA 50	RMS-D-50A	Wall Base - Ceramic Block	Base Boards located in the Original Construction Area-mainly in hallways and large common areas	Ceramic Block	Good	ND	NA	~498	Miscellaneous	Non-Friable
	RMS-D-50A			Grout		ND	NA		Miscellaneous	Friable
	RMS-D-50B			Ceramic Block		ND	NA		Miscellaneous	Non-Friable
	RMS-D-50B			Grout		ND	NA		Miscellaneous	Friable
HA 51	RMS-D-51A	Insulated Door Fill - Powder	Mechanical Room Doors and Gym Doors in the Original Construction Area	Fill	Good	ND	NA	~280	Miscellaneous	Friable
	RMS-D-51B			Fill		ND	NA		Miscellaneous	Friable
	RMS-D-51C			Fill		ND	NA		Miscellaneous	Friable
HA 52	RMS-D-52A	Insulated Door Fill - Fibrous	Mechanical Room Doors in the West Addition	Fill	Good	ND	NA	~160	Miscellaneous	Friable
	RMS-D-52B			Fill		ND	NA		Miscellaneous	Friable
	RMS-D-52C			Fill		ND	NA		Miscellaneous	Friable
	RMS-D-52Q			Fill		ND	NA		Miscellaneous	Friable
HA 53	RMS-D-53A	Rock Décor Flooring	Located in all vestibules entrances in the Original Construction Area	Décor	Good	ND	NA	~210	Miscellaneous	Friable
	RMS-D-53B			Décor		ND	NA		Miscellaneous	Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
HA 54	RMS-D-54A	Blue Foam Panel Adhesive (tunnel)	Located in the Tunnels on Exterior Foundation Walls - East and West	Tar	Good	2% Chrysotile	4.30%	~1,540	Miscellaneous	Non-Friable
	RMS-D-54A			Foam		ND	NA		Miscellaneous	Non-Friable
	RMS-D-54B			Tar		2% Chrysotile	4.60%		Miscellaneous	Non-Friable
	RMS-D-54B			Foam		ND	NA		Miscellaneous	Non-Friable
HA 55	RMS-D-55A	Lab Tables	Located in Room 18	Table	Good	30% Chrysotile	NA	~585	Miscellaneous	Non-Friable
RMS-D-55B	Table			30% Chrysotile		NA	Miscellaneous		Non-Friable	
HA 56	RMS-D-56A	Sink Coating	Located in Room 19, and room 30's storage room	Coating	Good	5% Chrysotile	NA	~8	Miscellaneous	Non-Friable
	RMS-D-56B			Coating		5% Chrysotile	NA		Miscellaneous	Non-Friable
HA 57	RMS-D-57A	Vibration Isolator - 1	Located in Mechanical Rooms, Penthouse, Custodial Closets and Tunnels	Isolator	Good	50% Chrysotile	NA	~160	Miscellaneous	Non-Friable
	RMS-D-57B			Isolator		50% Chrysotile	NA		Miscellaneous	Non-Friable
HA 58	RMS-D-58A	Vibration Isolator - 2		Isolator	Good	50% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-58B			Isolator		50% Chrysotile	NA		Miscellaneous	Non-Friable
HA 59	RMS-D-59A	Vibration Isolator - 3		Isolator	Good	50% Chrysotile	NA		Miscellaneous	Non-Friable
	RMS-D-59B			Isolator		50% Chrysotile	NA		Miscellaneous	Non-Friable
HA 60	RMS-D-60A	Insulation Mat on Ducting	Located on the Large Air Handlers in the Penthouse above Stage	Wrap	Good	ND	NA	~400	TSI	Friable
	RMS-D-60A			Adhesive/Wrap		50% Chrysotile	NA		TSI	Friable
	RMS-D-60A			Adhesive		ND	NA		TSI	Friable
	RMS-D-60A			Insulation		ND	NA		TSI	Friable
	RMS-D-60B			Wrap		ND	NA		TSI	Friable
	RMS-D-60B			Adhesive/Wrap		50% Chrysotile	NA		TSI	Friable
	RMS-D-60B			Adhesive		ND	NA		TSI	Friable
	RMS-D-60B			Insulation		ND	NA		TSI	Friable
	RMS-D-60C			Wrap		ND	NA		TSI	Friable
	RMS-D-60C			Adhesive		ND	NA		TSI	Friable
	RMS-D-60C			Insulation		ND	NA		TSI	Friable
	HA 61			RMS-D-61A		Rubber Floor Transition	Located on Seams and Transitions in the Halls of the Original Construction		Flooring	Good
RMS-D-61A		Adhesive	ND	NA	Miscellaneous			Non-Friable		
RMS-D-61A		Leveler/Adhesive	<1% Chrysotile	<0.25	Miscellaneous			Non-Friable		
RMS-D-61B		Flooring	ND	NA	Miscellaneous			Non-Friable		
RMS-D-61B		Adhesive	2% Chrysotile	2.00%	Miscellaneous			Non-Friable		
RMS-D-61Q		Flooring	ND	NA	Miscellaneous			Non-Friable		
HA 62	RMS-D-62A	Vermiculite	Located in Chases and Voids - Appears to be from base layer of Roofing and has displaced	Adhesive	Good	4% Chrysotile	4.00%	~514	Miscellaneous	Non-Friable
	RMS-D-62A			Vermiculite		ND	NA		Miscellaneous	Non-Friable
	RMS-D-62B			Vermiculite		ND	NA		Miscellaneous	Non-Friable
	RMS-D-62C			Vermiculite		ND	NA		Miscellaneous	Non-Friable
HA 63	RMS-D-63A	Pebble Pattern Sink Linoleum/Adhesive	Located in Room 19's Storage Room-C48	Linoleum/Adhesive	Good	15% Chrysotile	NA	~14	Miscellaneous	Friable
RMS-D-63B	Linoleum/Adhesive			15% Chrysotile		NA	Miscellaneous		Friable	
HA 64	RMS-D-64A	Cove Base - Black 6"	Located at Base throughout Original Construction	Cove Base	Good	ND	NA	~254	Miscellaneous	Non-Friable
	RMS-D-64A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-64B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-64B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 65	RMS-D-65A	Cove Base - Brown 4" #1	Located at Base throughout Original Construction - Joint Compound Layer from Surfacing Substrate	Cove Base	Good	ND	NA	~185	Miscellaneous	Non-Friable
	RMS-D-65A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-65A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-65A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-65A			Joint Compound		<1% Chrysotile	0.25%		Miscellaneous	Friable
	RMS-D-65B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-65B			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-65B			Joint Compound		<1% Chrysotile	0.75%		Miscellaneous	Friable
HA 66	RMS-D-66A	Cove Base - Light Brown 4"	Located at Base throughout West Addition	Cove Base	Good	ND	NA	~174	Miscellaneous	Non-Friable
	RMS-D-66A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-66B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-66B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 67	RMS-D-67A	Cove Base - Black 4" #1	Located at Base throughout Original Construction - Classrooms	Cove Base	Good	ND	NA	~485	Miscellaneous	Non-Friable
	RMS-D-67A			Adhesive		<1% Anthophyllite	<0.25%		Miscellaneous	Non-Friable
	RMS-D-67B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-67B			Adhesive		<1% Anthophyllite	<0.25%		Miscellaneous	Non-Friable
HA 68	RMS-D-68A	Exterior Sealant - White #1	Located on the Exterior-Rock Facia Joint Caulking	Caulk	Good	ND	NA	~197	Miscellaneous	Non-Friable
RMS-D-68B	Caulk			ND		NA	Miscellaneous		Non-Friable	
HA 69	RMS-D-69A	Exterior Sealant - Dark Brown	Located on the Exterior-Caulking around windows with stucco soffits above	Sealant	Good	ND	NA	~84	Miscellaneous	Non-Friable
	RMS-D-69A			Sealant		ND	NA		Miscellaneous	Non-Friable
	RMS-D-69A			Concrete		ND	NA		Surfacing	Non-Friable
	RMS-D-69A			Debris		4% Chrysotile	NA		Surfacing	Non-Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogeneous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft²	Material Category	Friability
HA 69	RMS-D-69B RMS-D-69B	Exterior Sealant - Dark Brown	Located on the Exterior-Caulking around windows with stucco soffits above	Sealant Debris	Good	ND 4% Chrysotile	NA NA	~84	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 70	RMS-D-70A RMS-D-70A RMS-D-70B RMS-D-70C	Exterior Sealant - White #2	Located on the Exterior-Caulking around west doors and joints on Trades Addition	Sealant Plaster Sealant Sealant	Good	ND ND ND ND	NA NA NA NA	~47	Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Non-Friable Non-Friable Non-Friable Non-Friable
HA 71	RMS-D-71A RMS-D-71B	Garage Door Sealant - Brown/White	Located on the Exterior-Caulking around Garage doors on Trades Addition	Sealant Sealant	Good	ND ND	NA NA	~15	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 72	RMS-D-72A RMS-D-72B	Man Doors Sealant - Black	Located on the Exterior-Caulking around man doors on west Addition	Sealant Sealant	Good	ND ND	NA NA	~46	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 73	RMS-D-73A RMS-D-73B	Expansion Joint - Grey	Located on Expansion Joints on Aux Gym	Sealant Sealant	Good	ND ND	NA NA	~124	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 74	RMS-D-74A RMS-D-74B	Exterior Sealant - Tan	Located on Expansion Joints on Aux Gym	Sealant Sealant	Good	ND ND	NA NA	~98	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 75	RMS-D-75A RMS-D-75B	Vibration Isolator (tunnels)	Located on air exchangers in Tunnels	Isolator Isolator	Good	70% Chrysotile 70% Chrysotile	NA NA	~20	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 76	RMS-D-76A RMS-D-76B	Rock Prefab Facia-1	Located on the Original Construction at the Roof Line	Prefab Prefab	Good	ND ND	NA NA	~	Miscellaneous Miscellaneous	Friable Friable
HA 77	RMS-D-77A RMS-D-77A RMS-D-77B RMS-D-77B RMS-D-77B	Rock Prefab Facia-2 w/Transite	Located on the Trades Addition at the Roof Line	Facia Transite Facia Transite/Adhesive Caulk	Good	ND 20% Chrysotile ND 20% Chrysotile ND	NA NA NA NA NA	~710	Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Friable Non-Friable Friable Non-Friable Non-Friable
HA 78	RMS-D-78A RMS-D-78A RMS-D-78B RMS-D-78C RMS-D-78C	Transite Piping (below slab)	Located below slab and observed in the Gym and Auditorium-mix box in C30	Concrete Transite Transite Concrete Transite	Good	ND 20% Chrysotile 10% Crocidolite NA NA	NA NA NA NA NA	~895 LF Observed	Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Non-Friable Non-Friable Non-Friable Non-Friable Non-Friable
HA 79	RMS-D-79A RMS-D-79A RMS-D-79B RMS-D-79B RMS-D-79Q RMS-D-79Q	Double Layer Drywall w/Glue	Wall Separations/Fire walls located in Classrooms and Corridors in Original Construction	Drywall Glue Drywall Glue Drywall Glue	Good	ND ND ND ND ND ND	NA NA NA NA NA NA	~1,257	Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Friable Non-Friable Friable Non-Friable Friable Non-Friable
HA 80	RMS-D-80A RMS-D-80B	Wall Glue/Adhesive	Classrooms behind Chalkboards and pegboards	Glue Glue	Good	ND ND	NA NA	~827	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 81	RMS-D-81A RMS-D-81B	Ceiling Tile - 2'x4' Small Fissure	Located in the hallway of the West Addition and Trades Addition	Ceiling Tile Ceiling Tile	Good	ND ND	NA NA	~950	Miscellaneous Miscellaneous	Friable Friable
HA 82	RMS-D-82A RMS-D-82B	Perlite - Block In-Fill	Located as interior Fill of CMU in the Trades Addition	Perlite Perlite	Good	ND ND	NA NA	~2,587	Miscellaneous Miscellaneous	Friable Friable
HA 83	RMS-D-83A RMS-D-83A RMS-D-83B RMS-D-83C	Textured Drywall - Black Backing	Located on the ceilings of the Mechanical Room-A33, A & B	Drywall Texture Drywall Drywall	Good	ND <1% Chrysotile ND ND	NA <0.25% NA NA	~867	Surfacing Surfacing Surfacing Surfacing	Friable Friable Friable Friable
HA 84	RMS-D-84A RMS-D-84B	Black Wood Base Mastic	Located on the wooden Baseboards in the Gym	Mastic Mastic	Good	5% Chrysotile 5% Chrysotile	NA NA	~5 Observed	Miscellaneous Miscellaneous	Non-Friable Non-Friable
HA 85	RMS-D-85A RMS-D-85A RMS-D-85B RMS-D-85B	12x12 VCT - Black	Located at the 2 entrances from Original Gym into the Aux Gym	VCT Adhesive VCT Adhesive/Leveler	Good	ND ND ND ND	NA NA NA NA	~165	Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Non-Friable Non-Friable Non-Friable Non-Friable
HA 86	RMS-D-86A RMS-D-86A RMS-D-86B RMS-D-86B RMS-D-86C RMS-D-86C	Painted CMU	Located on the Aux Gym	Paint/Coating CMU Paint/Coating CMU Paint/Coating CMU	Good	ND ND ND ND ND ND	NA NA NA NA NA NA	~951	Surfacing Surfacing Surfacing Surfacing Surfacing Surfacing	Friable Friable Friable Friable Friable Friable
HA 87	RMS-D-87A RMS-D-87A RMS-D-87B RMS-D-87B RMS-D-87B	Ceramic Cove/Mortar	Located in the Aux Gym	Ceramic Mortar Ceramic Grout Mortar	Good	ND ND ND ND ND	NA NA NA NA NA	~355	Miscellaneous Miscellaneous Miscellaneous Miscellaneous Miscellaneous	Friable Friable Friable Friable Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft²	Material Category	Friability
HA 88	RMS-D-88A	Window Glazing - Interior	Located on the Original Window at the 2 entrances from Gym to Aux Gym	Glazing	Good	<1% Chrysotile	<0.25%	~355	Miscellaneous	Non-Friable
	RMS-D-88B			Glazing		<1% Chrysotile	<0.25%		Miscellaneous	Non-Friable
	RMS-D-88Q			Glazing		<1% Chrysotile	<0.25%		Miscellaneous	Non-Friable
HA 89	RMS-D-89A	Fireproofing - Beam & Drains (Gym)	Horizontal Structural Beams at Exterior Walls and on roof drain penetration points	Fireproofing	Good	20% Chrysotile	NA	~3,215	Surfacing	Friable
	RMS-D-89B			Fireproofing		20% Chrysotile	NA		Surfacing	Friable
	RMS-D-89C			Fireproofing		20% Chrysotile	NA		Surfacing	Friable
HA 90	RMS-D-90A	Textured Drywall Ceiling - Aud	Located on the ceilings of the Auditorium-A55 (Homogenous with HA 1)	Drywall	Good	ND	NA	~3,843	Surfacing	Friable
	RMS-D-90B			Texture		<1% Chrysotile	0.50%		Surfacing	Friable
	RMS-D-90B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-90C			Texture		<1% Chrysotile	0.25%		Surfacing	Friable
	RMS-D-90C			Drywall		ND	NA		Surfacing	Friable
HA 91	RMS-D-91A	Textured Drywall - Skylights	Located in the Café-A57 around Skylights	Texture/Joint Compound	Good	<1% Chrysotile	0.25%	~847	Surfacing	Friable
	RMS-D-91A			Tape		ND	NA		Surfacing	Friable
	RMS-D-91A			Drywall		ND	NA		Surfacing	Friable
	RMS-D-91B			Texture		<1% Chrysotile	0.25%		Surfacing	Friable
	RMS-D-91B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-91C			Drywall		ND	NA		Surfacing	Friable
HA 92	RMS-D-92A	Ceiling Tile - 12"x12" - Aud	Located at the 2 Entrances into the Auditorium-A55	Ceiling Tile	Good	ND	NA	~480	Miscellaneous	Friable
	RMS-D-92A			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-92A			Joint Compound		2% Chrysotile	0.75%		Miscellaneous	Friable
	RMS-D-92B			Ceiling Tile		ND	NA		Miscellaneous	Friable
	RMS-D-92B			Mastic		ND	NA		Miscellaneous	Non-Friable
	RMS-D-92B			Joint Compound		2% Chrysotile	0.75%		Miscellaneous	Friable
HA 94	RMS-D-94A	Air Handler Door Mat	Located on Large Air Handlers in the Penthouse above the Stage	Insulation	Good	ND	NA	~120	TSI	Friable
	RMS-D-94B			Insulation		ND	NA		TSI	Friable
	RMS-D-94C			Insulation		ND	NA		TSI	Friable
HA 95	RMS-D-95A	Vibration Isolator-Penthouse	Located in the Penthouse above the Stage	Isolator	Good	50% Chrysotile	NA	~40	Miscellaneous	Friable
	RMS-D-95B			Isolator		50% Chrysotile	NA		Miscellaneous	Friable
HA 96	RMS-D-96Q	Light Fixture Backing Paper	Original lights-observed in storage rooms, janitor closets and mechanical rooms	Backing	Good	40% Chrysotile	NA	~20 Fixtures	Miscellaneous	Friable
	RMS-D-96A			Backing		40% Chrysotile	NA		Miscellaneous	Friable
	RMS-D-96B			Backing		40% Chrysotile	NA		Miscellaneous	Friable
HA 97	RMS-D-97A	Tunnel Doors - Gasket	Gasket around all tunnel entrance doors	Gasket	Good	ND	NA	~37	Miscellaneous	Non-Friable
	RMS-D-97B			Gasket		ND	NA		Miscellaneous	Non-Friable
HA 98	RMS-D-98A	Drywall Addition - Adhesive	Located in Hallway C30 - 4' up only	Adhesive	Good	ND	NA	~875	Miscellaneous	Friable
	RMS-D-98B			Adhesive		ND	NA		Miscellaneous	Friable
HA 99	RMS-D-99A	Tan Sink Coating	Located in Classroom 19	Coating	Good	ND	NA	~14	Miscellaneous	Non-Friable
	RMS-D-99B			Coating		ND	NA		Miscellaneous	Non-Friable
HA 100	RMS-D-100A	Stucco Soffits (exterior)	Located on the Exterior-Stucco above windows on the Original Construction	Stucco	Good	ND	NA	~988	Surfacing	Friable
	RMS-D-100B			Stucco		ND	NA		Surfacing	Friable
	RMS-D-100C			Stucco		ND	NA		Surfacing	Friable
	RMS-D-100D			Stucco		ND	NA		Surfacing	Friable
	RMS-D-100E			Stucco		ND	NA		Surfacing	Friable
HA 101	RMS-D-101A	Rough Coat Plaster - White	Located on the Covered Entrances into the school on the West Addition	Plaster	Good	ND	NA	~683	Surfacing	Friable
	RMS-D-101A			Rough Coat		ND	NA		Surfacing	Friable
	RMS-D-101B			Plaster		ND	NA		Surfacing	Friable
	RMS-D-101B			Rough Coat		ND	NA		Surfacing	Friable
	RMS-D-101C			Plaster		ND	NA		Surfacing	Friable
	RMS-D-1M101C			Rough Coat		<1% Chrysotile	<0.25%		Surfacing	Friable
HA 102	RMS-D-102A	Hand Textured Drywall-Ceiling	Located on the Covered Entrance into the school on the West Addition near room 46	Plaster/Texture	Good	ND	NA	~42	Surfacing	Friable
	RMS-D-102A			Drywall		ND	NA		Surfacing	Friable
	RMS-D-102B			Plaster/Texture		ND	NA		Surfacing	Friable
	RMS-D-102B			Drywall		ND	NA		Surfacing	Friable
	RMS-D-102C			Plaster/Texture		ND	NA		Surfacing	Friable
	RMS-D-102C			Drywall		ND	NA		Surfacing	Friable
HA 103	RMS-D-103A	Aux Gym Flooring	Flooring of the Aux Gym	Flooring	Good	ND	NA	~5000	Miscellaneous	Non-Friable
	RMS-D-103B			Flooring		ND	NA		Miscellaneous	Non-Friable
HA 104	RMS-D-104A	Ceiling Tile - 2'x2'-Room 16A Confirm	Ceiling Tiles of Room 16A	Ceiling Tile	Good	ND	NA	~154	Miscellaneous	Friable
	RMS-D-104B			Ceiling Tile		ND	NA		Miscellaneous	Friable
	RMS-D-104Q			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 105	RMS-D-105A	Carpet/Adhesive - Modular	Flooring of the Modular Classroom	Carpet	Good	ND	NA	~1,350	Miscellaneous	Non-Friable
	RMS-D-105A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-105B			Carpet		ND	NA		Miscellaneous	Non-Friable
	RMS-D-105B			Adhesive		ND	NA		Miscellaneous	Non-Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
HA 106	RMS-D-106A	Prefab Drywall Panels - Modular	Walls of the Modular Classroom	Wall Covering	Good	ND	NA	~1,350	Miscellaneous	Friable
	RMS-D-106A			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-106A			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-106B			Wall Covering		ND	NA		Miscellaneous	Friable
	RMS-D-106B			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-106B			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-106C			Wall Covering		ND	NA		Miscellaneous	Friable
	RMS-D-106C			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-106C			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-106D			Wall Covering		ND	NA		Miscellaneous	Friable
	RMS-D-106D			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-106D			Drywall		ND	NA		Miscellaneous	Friable
	RMS-D-106E			Wall Covering		ND	NA		Miscellaneous	Friable
	RMS-D-106E			Adhesive		ND	NA		Miscellaneous	Friable
	RMS-D-106E			Drywall		ND	NA		Miscellaneous	Friable
HA 107	RMS-D-107A	Ceiling Tile - 2'x4' - Modular	Drop Ceiling of the Modular Classroom	Ceiling Tile	Good	ND	NA	~1,350	Miscellaneous	Friable
	RMS-D-107B			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 108	RMS-D-108A	Asphalt Shingles/Backing - Modular	Roofing Material of the Modular Classroom	Shingle	Good	ND	NA	~1,350	Miscellaneous	Non-Friable
	RMS-D-108A			Shingle		ND	NA		Miscellaneous	Non-Friable
	RMS-D-108A			Backing		ND	NA		Miscellaneous	Non-Friable
	RMS-D-108B			Shingle		ND	NA		Miscellaneous	Non-Friable
	RMS-D-108B			Shingle		ND	NA		Miscellaneous	Non-Friable
	RMS-D-108B			Backing		ND	NA		Miscellaneous	Non-Friable
HA 109	RMS-D-109A	Plastic Roof Cap Coating	Skylight Covers on the School Roof	Silver Coating	Good	ND	NA	~450	Miscellaneous	Non-Friable
	RMS-D-109B			Silver Coating		ND	NA		Miscellaneous	Non-Friable
HA 110	RMS-D-110A	Cove Base - 4" Thick Brown	Located in Classroom 30	Cove/Mastic	Good	ND	NA	~85	Miscellaneous	Non-Friable
	RMS-D-110B			Cove/Mastic		ND	NA		Miscellaneous	Non-Friable
HA 111	RMS-D-111A	Cove Base - 4" Brown #2	Located in the West Addition Hallways	Cove Base	Good	ND	NA	~230	Miscellaneous	Non-Friable
	RMS-D-111A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-111B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-111B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 112	RMS-D-112Q	Cove Base - 4" Black #2	Located in the Trades Addition	Cove Base	Good	ND	NA	~327	Miscellaneous	Non-Friable
	RMS-D-112Q			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112Q			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112A			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112B			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112B			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-112B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 113	RMS-D-113A	Foam Insulation - Block In-Fill	Located as interior Fill of CMU in the Aux Gym	Fill	Good	ND	NA	~6,200	Miscellaneous	Non-Friable
	RMS-D-113B			Fill		ND	NA		Miscellaneous	Non-Friable
HA 114	RMS-D-114A	Vinyl Drywall Ceiling Tile	Located in Renovated Restroom A30	Ceiling Tile	Good	ND	NA	~30	Miscellaneous	Friable
	RMS-D-114B			Ceiling Tile		ND	NA		Miscellaneous	Friable
HA 115	RMS-D-115A	Cove Base w/White Adhesive	Located in Renovated Restroom A30	Cove Base	Good	ND	NA	~8	Miscellaneous	Non-Friable
	RMS-D-115A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-115B			Cove Base		ND	NA		Miscellaneous	Non-Friable
	RMS-D-115B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 116	RMS-D-116A	FRP w/Adhesive	Located in Renovated Restroom A30	FRP	Good	ND	NA	~172	Miscellaneous	Non-Friable
	RMS-D-116A			Adhesive		ND	NA		Miscellaneous	Non-Friable
	RMS-D-116B			FRP		ND	NA		Miscellaneous	Non-Friable
	RMS-D-116B			Adhesive		ND	NA		Miscellaneous	Non-Friable
HA 117	RMS-D-117A	Gym Floor Tar Back	Gym Floor beneath wooden flooring	Tar	Good	7% Chrysotile	NA	~10,200	Miscellaneous	Non-Friable
	RMS-D-117B			Tar		5% Chrysotile	NA		Miscellaneous	Non-Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
ROOF SAMPLING										
Roof - HA 1	RON-R-1A	Lower Deck	Original Construction Areas	Tar	Good	ND	NA	~32,702	Miscellaneous	Non-Friable
	RON-R-1A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-1B			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-1B			Insulation		ND	NA		Miscellaneous	Non-Friable
Roof - HA 2	RON-R-2A	Parapet Wall	Original Construction Areas	Sealant	Good	ND	NA	~1,752	Miscellaneous	Non-Friable
	RON-R-2A			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-2A			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-2A			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-2A			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-2A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-2B			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-2B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-2B			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-2B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-2B			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-2B			Insulation		ND	NA		Miscellaneous	Non-Friable
Roof - HA 3	RON-R-3A	Newer Build - Deck	Trades Addition	Tar	Good	5% Chrysotile	NA	~4,815	Miscellaneous	Non-Friable
	RON-R-3A			Felt		ND	NA		Miscellaneous	Non-Friable
	RON-R-3A			Tar Paper		10% Chrysotile	NA		Miscellaneous	Non-Friable
	RON-R-3A			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-3A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-3A			Terrazzo		ND	NA		Miscellaneous	Non-Friable
	RON-R-3B			Tar		5% Chrysotile	NA		Miscellaneous	Non-Friable
	RON-R-3B			Insulation		ND	NA		Miscellaneous	Non-Friable
Roof - HA 4	RON-R-4A	Main Deck-South	Original Construction Areas - Mech and Kitchen	Roofing	Good	ND	NA	~10,258	Miscellaneous	Non-Friable
	RON-R-4A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-4B			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-4B			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-4B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-4B			Insulation		ND	NA		Miscellaneous	Non-Friable
Roof - HA 5	RON-R-5A	Main Deck-Lifted	Original Construction Areas - Café and Old Gym	Roofing	Good	ND	NA	~14,948	Miscellaneous	Non-Friable
	RON-R-5A			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-5A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-5B			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-5B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-5B			Insulation		ND	NA		Miscellaneous	Non-Friable
Roof - HA 6	RON-R-6A	Parapet Wall	Located on the Original Construction Area near Large Skylights	Roofing	Good	7% Chrysotile	NA	~995	Miscellaneous	Non-Friable
	RON-R-6A			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-6A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-6A			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-6A			Terrazzo		ND	NA		Miscellaneous	Non-Friable
	RON-R-6B			Tar Paper		5% Chrysotile	NA		Miscellaneous	Non-Friable
	RON-R-6B			Tar		3% Chrysotile	NA		Miscellaneous	Non-Friable
	RON-R-6B			Tar		3% Chrysotile	NA		Miscellaneous	Non-Friable
Roof - HA 7	RON-R-7A	Skylight - Deck	Main Decking on the Original Construction Area near Large Skylights	Roofing	Good	ND	NA	~3,552	Miscellaneous	Non-Friable
	RON-R-7A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-7B			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-7B			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-7B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-7B			Insulation		ND	NA		Miscellaneous	Non-Friable
Roof - HA 8	RON-R-8A	New Gym Deck	Aux Gym Addition Main Deck	Roofing	Good	ND	NA	~6,901	Miscellaneous	Non-Friable
	RON-R-8A			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-8A			Tar Paper		ND	NA		Miscellaneous	Non-Friable
	RON-R-8A			Fiber Board		ND	NA		Miscellaneous	Non-Friable
	RON-R-8A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Shingle		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Foam		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Foam		ND	NA		Miscellaneous	Non-Friable
	RON-R-8B			Foam		ND	NA		Miscellaneous	Non-Friable

Homogeneous Sampling Area ID	Sample ID	Material	Homogenous/Material Location	Laboratory Identified Layer	Condition	Asbestos Content	Point Count Results	Quantity ft <sup>2</sup>	Material Category	Friability
Roof - HA 9	RON-R-9A	Parapet Wall	Aux Gym Addition Parapet Wall	Roofing	Good	ND	NA	~940	Miscellaneous	Non-Friable
	RON-R-9A			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-9A			Insulation		ND	NA		Miscellaneous	Non-Friable
	RON-R-9A			Fiber Board		ND	NA		Miscellaneous	Non-Friable
	RON-R-9B			Shingle		ND	NA		Miscellaneous	Non-Friable
	RON-R-9B			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-9B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-9B			Tar		ND	NA		Miscellaneous	Non-Friable
	RON-R-9B			Roofing		ND	NA		Miscellaneous	Non-Friable
	RON-R-9B			Insulation		ND	NA		Miscellaneous	Non-Friable

NA = Not Applicable  
ft<sup>2</sup> = square feet  
\* = positive due to homogeneity  
TBD = To be determined upon demo  
SD = Significantly Damaged  
TBI = To Be Impacted  
Per AHERA and State of Colorado, materials tested at less than or equal to (<)1%asbestos are not considered to be an asbestos containing material  
  
*Materials containing ANY amount of asbestos should be handled according OSHA protocol.*

Blue = OSHA  
RED = ACM

1. Damaged or significantly damaged thermal system insulation ACM.  
2. Damaged friable surfacing ACM.  
3. Significantly damaged friable surfacing ACM.  
4. Damaged or significantly damaged friable miscellaneous ACM.  
5. ACBM with potential for damage.  
6. ACBM with potential for significant damage.  
7. Any remaining friable ACBM or friable suspected ACBM.

## **APPENDIX 2 - INSPECTION DIAGRAMS, HOMOGENOUS AND ACM FIGURES-(ACM is Highlighted)**



Aux Gym  
Addition

Original  
Construction

Trades  
Addition

West Addition



FIRST FLOOR PLAN  
NO SCALE



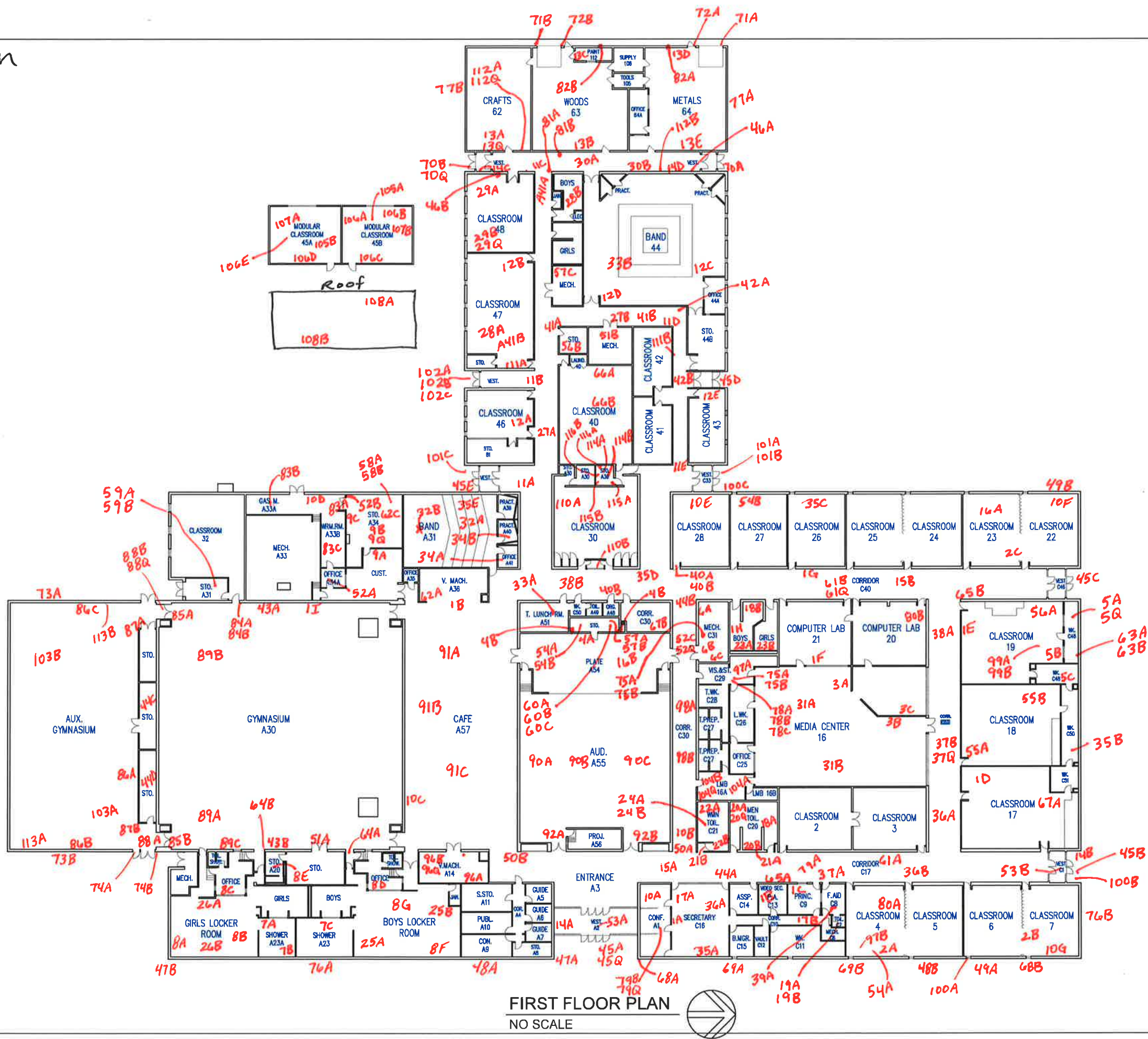
PUEBLO SCHOOL DISTRICT #60

RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

4202 HIGHWAY 78  
PUEBLO, COLORADO 81005

SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
APEC: Project # 21-4541-AA  
DATE: 2021

Sample Location

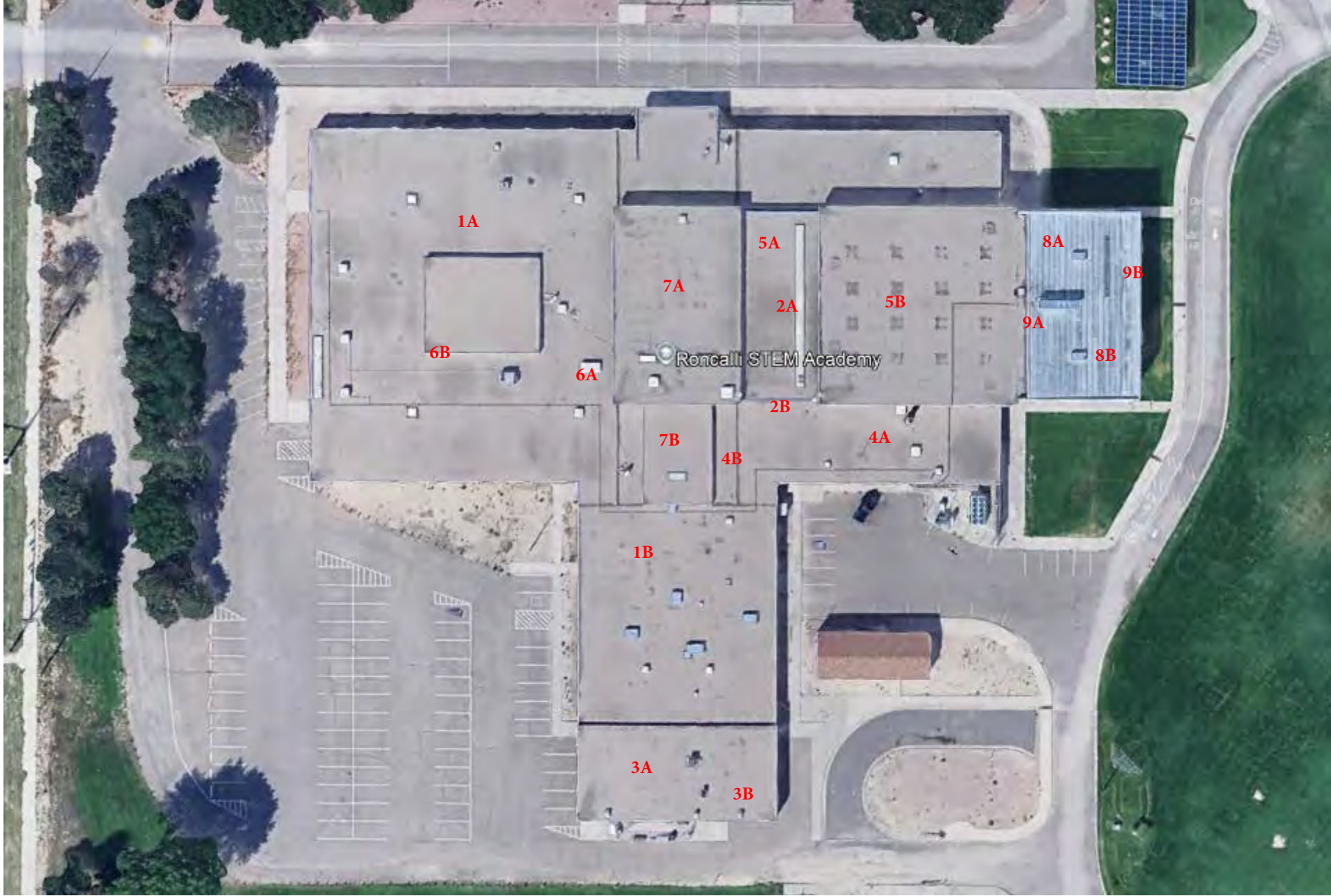


FIRST FLOOR PLAN  
NO SCALE

PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE: 2021





Roncalli STEM Academy

1A

6B

6A

7A

5A

2A

5B

8A

9B

9A

8B

2B

4A

7B

4B

1B

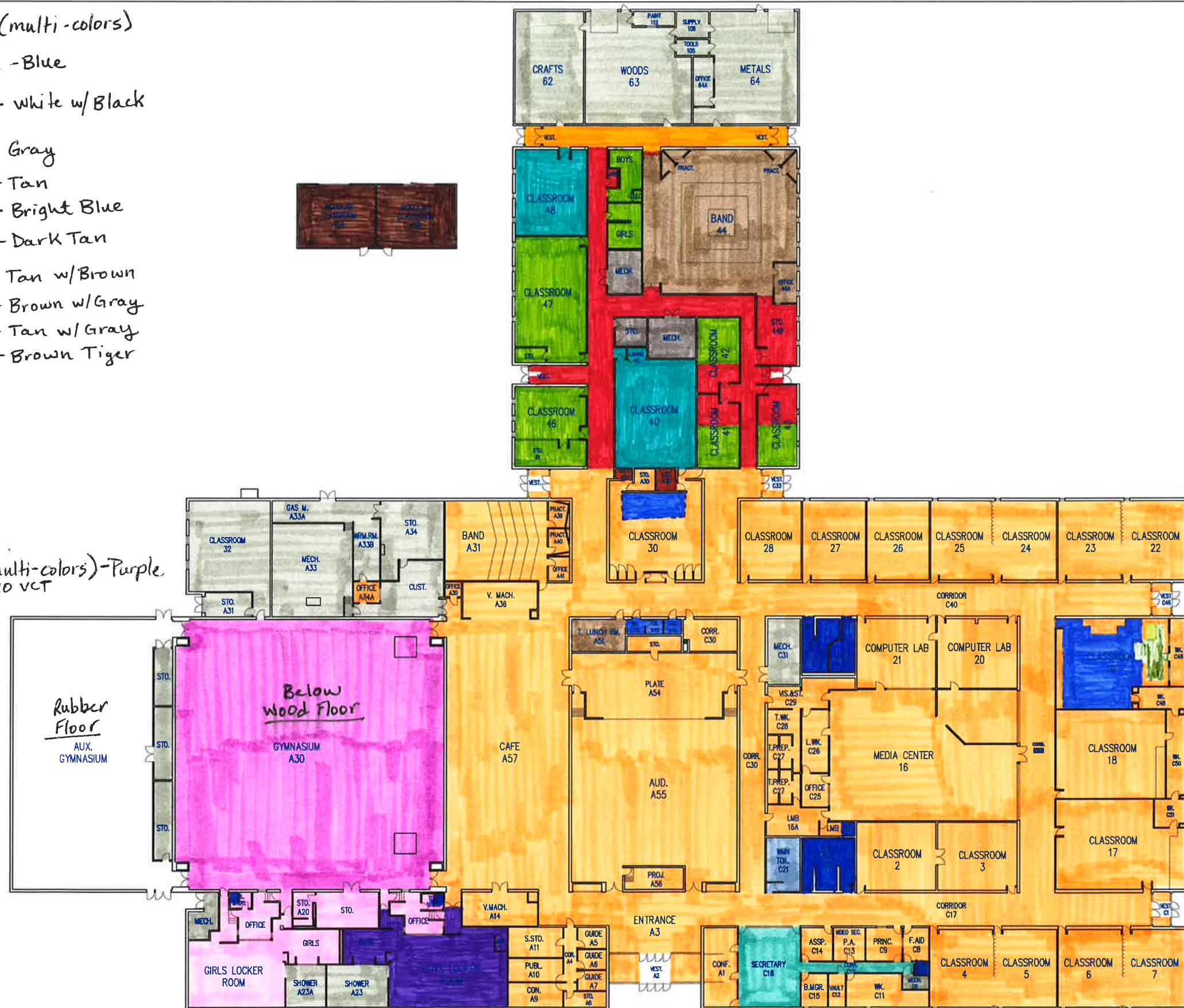
3A

3B



# Flooring

- 9x9 VCT w/Mastic (multi-colors)
- 12x12 VCT w/Mastic - Blue
- 12x12 VCT w/Mastic - White w/Black
- 12x12 VCT w/Mastic - Gray
- 12x12 VCT w/mastic - Tan
- 12x12 VCT w/mastic - Bright Blue
- 12x12 VCT w/mastic - Dark Tan
- 12x12 VCT w/Mastic - Tan w/Brown
- 12x12 VCT w/mastic - Brown w/Gray
- 12x12 VCT w/mastic - Tan w/Gray
- 12x12 VCT w/mastic - Brown Tiger
- Blue Epoxy
- Green Epoxy
- Mosaic Floor Tile
- Concrete Floor
- Carpet/Adhesive (multi-colors) - Purple  
on concrete - NO VCT
- Tar/Cork Backing
- Carpet/Adhesive  
on wood



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

4000 HIGHWAY 70  
PUEBLO, COLORADO 81005

SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE: 2021



# Surfacing

- CMU Filler - White Base
- CMU Filler - Tan Base
- CMU Filler - Green Base
- CMU Filler - Blue Base
- \* // Textured Drywall - Gloss Orange-Peel
- Textured Drywall - New wall additions
- Textured Drywall - Brush style
- Textured Drywall - smooth 1
- Textured Drywall - Sand
- Rough Coat on foam
- // Heavy Gloss on Concrete
- Textured Drywall - smooth 2
- Textured Drywall
- Painted/Decor CMU
- // Drywall/Joint Compound



- \* Walls not marked are Brick/Mortar (+Exterior)
- \* Any Ceilings Not marked are Drop ceiling tile (All ND)
- \* Ceilings are noted with Hatch

FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

ASBESTOS  
PUEBLO, COLORADO 81005

SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
APEC: Project # 21-4341-AA  
DATE: 2021



# Wall Tile

Light blue 4x4 wall tile /  
 teal 4x4 wall tile /  
 white 4x4 wall tile /  
 Blue 4x4 wall tile /  
 Pink 4x4 wall tile /

Joint Compound / / / /

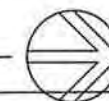
Joint Compound / / / /

Vibration Isolators (Fiber) ○

Vibration Isolators (Rubber) ○



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
 RONCALLI MIDDLE SCHOOL  
 ASBESTOS MANAGEMENT PLAN

4002 HIGHWAY 78  
PUEBLO, COLORADO 81005

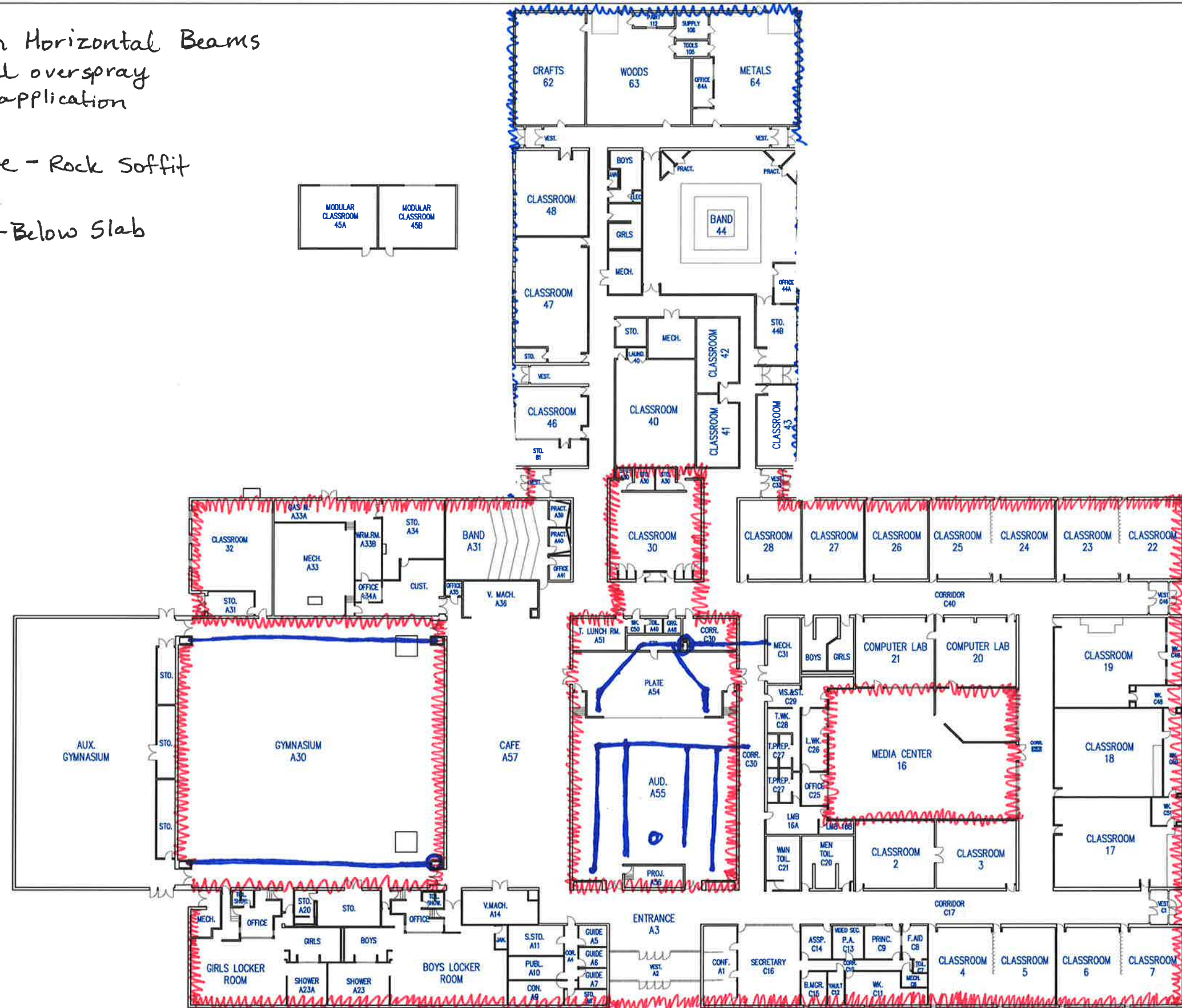
SHEET TITLE: ASBESTOS  
 MANAGEMENT PLAN  
 APEC Project # 21-4541-AA  
 DATE: 2021

# Fireproofing/Transite

Fireproofing - on Horizontal Beams  
\*To include all overspray  
in area of application

Exterior Transite - Rock Soffit

Transite pipe - Below Slab  
o - visible



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC: Project # 21-4541-AA  
DATE 2021

4300 HIGHWAY 78  
PUEBLO, COLORADO 81005



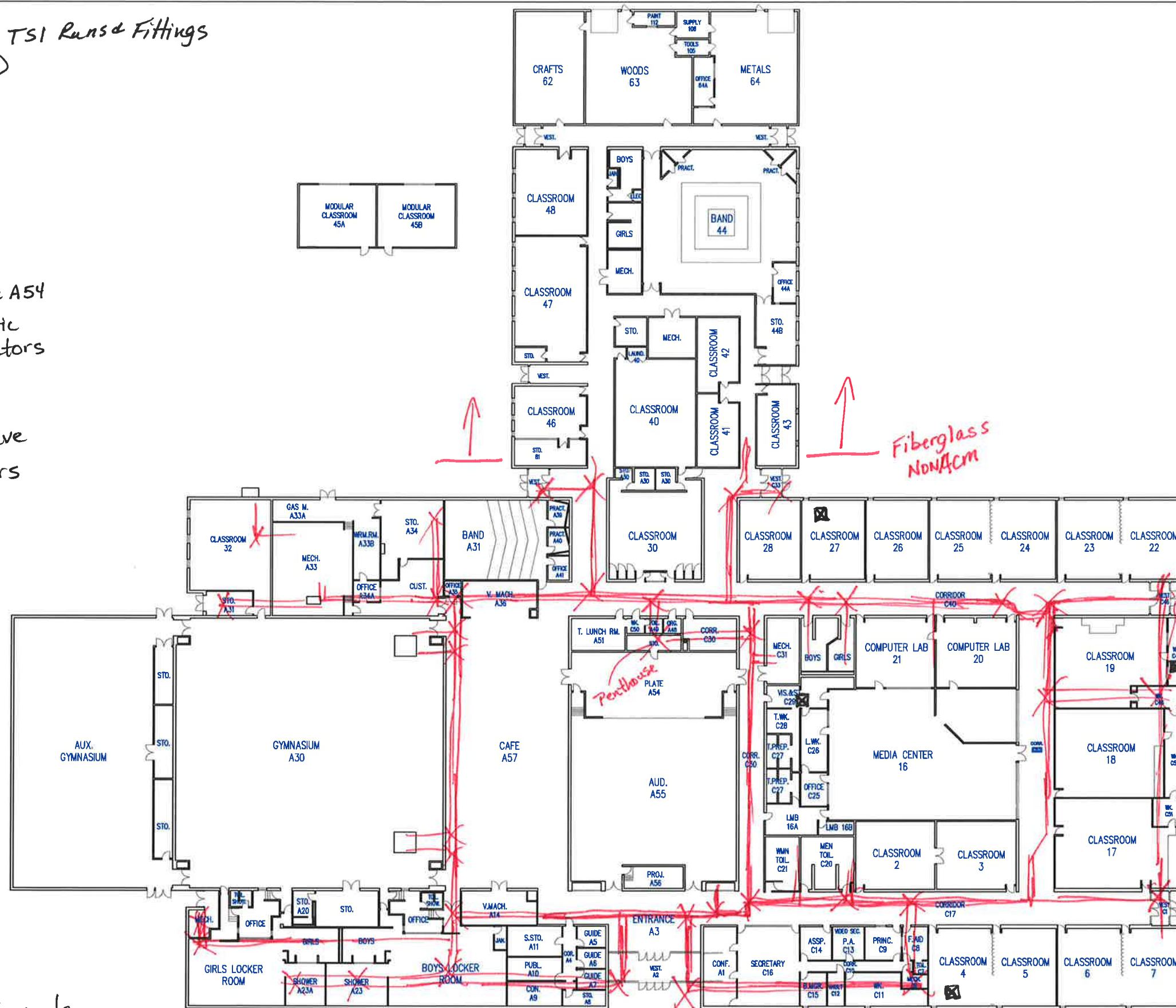
TSI

General Location of TSI Runs & Fittings  
(above ceiling)

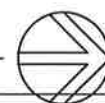
\*Penthouse - Above A54  
- Duct Mat Mastic  
- Vibration Isolators  
- TSI Fittings

\*All Mech Rooms have  
- Vibration Isolators  
- TSI Fittings

\*Vibration Isolators in tunnels  
\*TSI Fittings are located in tunnels  
☒ = tunnel Doors



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60

RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

ASBESTOS MANAGEMENT PLAN  
PUEBLO, COLORADO 81005

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APFC Project # 21-4541-AA  
DATE 2021



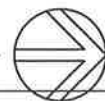
# Flooring

- 9x9 VCT w/mastic (multi-colors)
- 12x12 VCT w/mastic - Blue
- 12x12 VCT w/mastic - White w/Black
- 12x12 VCT w/mastic - Gray
- 12x12 VCT w/mastic - Tan
- 12x12 VCT w/mastic - Bright Blue
- 12x12 VCT w/mastic - Dark Tan
- 12x12 VCT w/mastic - Tan w/Brown
- 12x12 VCT w/mastic - Brown w/Gray
- 12x12 VCT w/mastic - Tan w/Gray
- 12x12 VCT w/mastic - Brown Tiger
- Blue Epoxy
- Green Epoxy
- Mosaic Floor Tile
- Concrete Floor

- Carpet/Adhesive (multi-colors) - Purple on concrete - NO VCT
- Tar/Cork Backing
- Carpet/Adhesive on wood



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60

RONCALLI MIDDLE SCHOOL

ASBESTOS MANAGEMENT PLAN

4302 HIGHTWAY 78  
PUEBLO, COLORADO 81005

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE: 2021



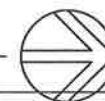
# Surfacing

- CMU Filler - White Base
- CMU Filler - Tan Base
- CMU Filler - Green Base
- CMU Filler - Blue Base
- \* // Textured Drywall - Gloss Orange-Peel
- Textured Drywall - New wall additions
- Textured Drywall - Brush Style
- Textured Drywall - smooth 1
- Textured Drywall - Sand
- Rough Coat on foam
- // Heavy Gloss on Concrete
- Textured Drywall - smooth 2
- Textured Drywall
- Painted/Decor CMU
- // Drywall/Joint Compound



- \* Walls not marked are Brick/Mortar (+Exterior)
- \* Any Ceilings Not marked are Drop ceiling tile (All ND)
- \* Ceilings are noted with Hatch

FIRST FLOOR PLAN  
NO SCALE



# Wall Tile

Light blue 4x4 wall tile /  
 teal 4x4 wall tile /  
 white 4x4 wall tile /  
 Blue 4x4 wall tile /  
 Pink 4x4 wall tile /

Joint Compound / / / /

Joint Compound / / / / /

Vibration Isolators (Fiber) ○

Vibration Isolators (Rubber) ○



FIRST FLOOR PLAN  
 NO SCALE



PUEBLO SCHOOL DISTRICT #60  
 RONCALLI MIDDLE SCHOOL  
 ASBESTOS MANAGEMENT PLAN

502 HIGHWAY 78  
 PUEBLO, COLORADO 81005

SHEET TITLE: ASBESTOS  
 MANAGEMENT PLAN  
 APEC Project # 21-4541-AA  
 DATE: 2021

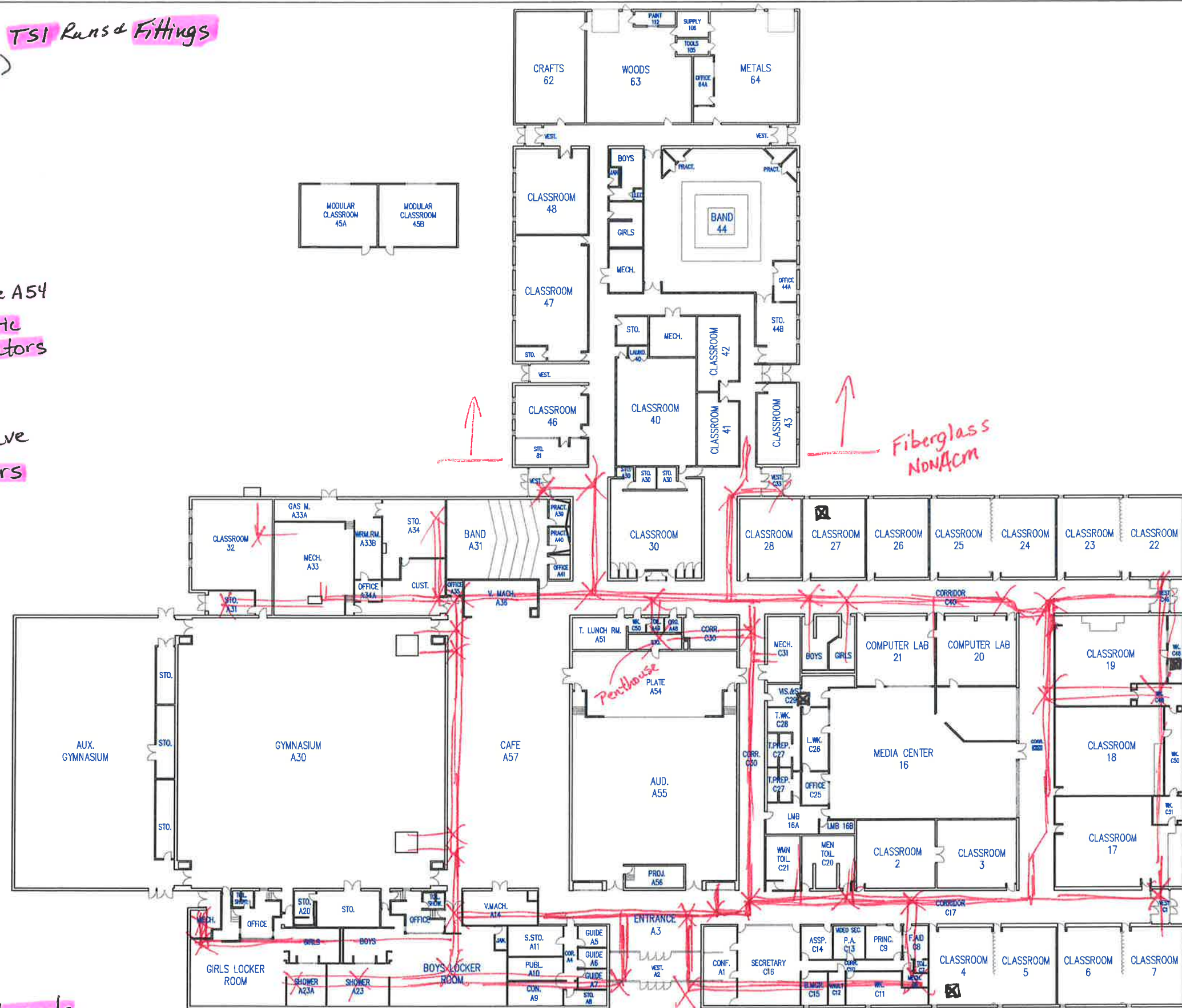


General Location of TSI Runs & Fittings  
(above ceiling)

- \*Penthouse - Above A54
  - Duct Mat Mastic
  - Vibration Isolators
  - TSI Fittings

- \* All mech Rooms have
  - Vibration Isolators
  - TSI Fittings

- \* Vibration Isolators in tunnels
- \* TSI Fittings are located in tunnels
- ☒ = tunnel Doors



FIRST FLOOR PLAN  
NO SCALE

PUEBLO SCHOOL DISTRICT #60

RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

4202 INGIWAW 78

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE 2021

Fireproofing / Transite

Fireproofing - on Horizontal Beams  
\*To include all overspray  
in area of application

Exterior Transite - Rock Soffit

Transite pipe - Below Slab  
o - visible



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

4001 HIGHWAY 78  
PUEBLO, COLORADO 81005

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE 2021



## APPENDIX 3 - INSPECTION PHOTOGRAPHS

### (ACM PHOTOS & DESCRIPTIONS)

(All Photos are available upon request)




	<p><b>9x9 VCT &amp; Mastic – Multiple Colors</b></p> <p>Original Construction</p>
	<p><b>12x12 VCT (tiger) Only</b> Mastic – ND</p> <p>West Addition</p>

	<p><b>Mastic Only</b> Rubber Seam Runner  Original Construction</p>
	<p><b>Mastic Only</b> Multiple 12x12 VCT – ND  West Addition</p>
	<p><b>Adhesive Only</b> Beneath 4x4 Ceramic  Original Construction</p>






	<p><b>Adhesive Only</b> Blue Foundation Foam</p> <p>Tunnels Original Construction</p>
	<p><b>Adhesive Only</b> Beneath 4x4 Ceramic</p> <p>Original Construction</p>
	<p><b>Black Sink Coating</b></p> <p>Original Construction &amp; West Addition</p>






	<p><b>Fireproofing Only</b> Beneath Drywall at Ceiling</p> <p>Gym Original Construction</p>
	<p><b>Fireproofing</b> Original Construction</p>
	<p><b>Typical TSI Fittings</b> Original Construction</p>

	<p><b>Typical Vibration Isolator</b></p> <p>Original Construction</p>
	<p><b>Typical Mat on Ducting</b></p> <p>Penthouse Original Construction</p>
	<p><b>Tar Backing</b></p> <p>Gym Original Construction</p>



	<p><b>Light Fixture Backing</b></p> <p>Original Construction</p>
	<p><b>Pebble Pattern Linoleum</b></p> <p>Original Construction</p>
	<p><b>Exterior Sealant</b></p> <p>Exterior Windows Original Construction</p>

	<p><b>Transite Rock Facia</b></p> <p>Exterior Trades Addition</p>
	<p><b>Transite Piping-Vents</b></p> <p>Below Slab Original Construction</p>
	<p><b>Mastic Only</b> Wood Base Board</p> <p>Gym Original Construction</p>

## **APPENDIX 4 - ASBESTOS BULK SAMPLE REPORTS**



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

**Attn:** Robert Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Collected:** 8/23/2024  
**Received:** 9/09/2024  
**Analyzed:** 9/26/2024

**Proj:** 24-5808 / Roncalli - 1

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-1A- Joint Compound

**Lab Sample ID:** 042418740-0001

**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.25%	0.75% Chrysotile	

**Client Sample ID:** RMS-D-1A- Drywall

**Lab Sample ID:** 042418740-0001A

**Sample Description:** Gloss Orange Peel Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-1A- Composite

**Lab Sample ID:** 042418740-0001B

**Sample Description:** Joint Compound / Gloss Orange Peel Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	10.0%	90.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	100%	<0.25% Chrysotile	This is a composite result of drywall and jt. compound.

**Client Sample ID:** RMS-D-1B- Drywall

**Lab Sample ID:** 042418740-0002

**Sample Description:** Gloss Orange Peel Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-1C- Joint Compound

**Lab Sample ID:** 042418740-0003

**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	

**Client Sample ID:** RMS-D-1C- Drywall

**Lab Sample ID:** 042418740-0003A

**Sample Description:** Gloss Orange Peel Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-1C- Composite

**Lab Sample ID:** 042418740-0003B

**Sample Description:** Joint Compound / Gloss Orange Peel Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	10.0%	90.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	100%	<0.25% Chrysotile	This is a composite result of drywall and jt. compound.





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-1D- Drywall		<b>Lab Sample ID:</b> 042418740-0004				
<b>Sample Description:</b> Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Brown/White	10.0%	90.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-1E- Drywall		<b>Lab Sample ID:</b> 042418740-0005				
<b>Sample Description:</b> Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Brown/White	10.0%	90.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-1F- Joint Compound		<b>Lab Sample ID:</b> 042418740-0006				
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-1F- Drywall		<b>Lab Sample ID:</b> 042418740-0006A				
<b>Sample Description:</b> Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-1G- Joint Compound		<b>Lab Sample ID:</b> 042418740-0007				
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-1G- Drywall		<b>Lab Sample ID:</b> 042418740-0007A				
<b>Sample Description:</b> Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	10.0%	90.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-1G- Composite		<b>Lab Sample ID:</b> 042418740-0007B				
<b>Sample Description:</b> Joint Compound / Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	10.0%	90.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	99.2%	0.8% Chrysotile	This is a composite result of drywall and jt. compound.
<b>Client Sample ID:</b> RMS-D-1H- Drywall		<b>Lab Sample ID:</b> 042418740-0008				
<b>Sample Description:</b> Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-1I- Drywall		<b>Lab Sample ID:</b> 042418740-0009				
<b>Sample Description:</b> Gloss Orange Peel Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2A- Texture		<b>Lab Sample ID:</b> 042418740-0010				
<b>Sample Description:</b> Textured Drywall - Patch Add.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2A- Drywall		<b>Lab Sample ID:</b> 042418740-0010A				
<b>Sample Description:</b> Textured Drywall - Patch Add.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2B- Texture/ Joint Compound		<b>Lab Sample ID:</b> 042418740-0011				
<b>Sample Description:</b> Texture / Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2B- Tape		<b>Lab Sample ID:</b> 042418740-0011A				
<b>Sample Description:</b> Tape						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2B- Drywall		<b>Lab Sample ID:</b> 042418740-0011B				
<b>Sample Description:</b> Textured Drywall - Patch Add.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2C- Texture		<b>Lab Sample ID:</b> 042418740-0012				
<b>Sample Description:</b> Textured Drywall - Patch Add.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-2C- Drywall		<b>Lab Sample ID:</b> 042418740-0012A				
<b>Sample Description:</b> Textured Drywall - Patch Add.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-3A- Texture/ Joint Compound		<b>Lab Sample ID:</b> 042418740-0013				
<b>Sample Description:</b> Textured Drywall - Patch Add.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-3A- Tape **Lab Sample ID:** 042418740-0013A  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Yellow	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-3A- Drywall **Lab Sample ID:** 042418740-0013B  
**Sample Description:** Brush Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-3B- Texture **Lab Sample ID:** 042418740-0014  
**Sample Description:** Brush Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-3B- Texture 2 **Lab Sample ID:** 042418740-0014A  
**Sample Description:** Brush Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-3B- Drywall **Lab Sample ID:** 042418740-0014B  
**Sample Description:** Brush Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-3C- Texture/ Joint Compound **Lab Sample ID:** 042418740-0015  
**Sample Description:** Brush Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-3C- Tape **Lab Sample ID:** 042418740-0015A  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-3C- Drywall **Lab Sample ID:** 042418740-0015B  
**Sample Description:** Brush Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-4A- Texture **Lab Sample ID:** 042418740-0016  
**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-4A- Tape			<b>Lab Sample ID:</b> 042418740-0016A			
<b>Sample Description:</b> Tape						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4A- Joint Compound			<b>Lab Sample ID:</b> 042418740-0016B			
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4A- Drywall			<b>Lab Sample ID:</b> 042418740-0016C			
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4B- Texture			<b>Lab Sample ID:</b> 042418740-0017			
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4B- Tape			<b>Lab Sample ID:</b> 042418740-0017A			
<b>Sample Description:</b> Tape						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4B- Joint Compound			<b>Lab Sample ID:</b> 042418740-0017B			
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4B- Drywall			<b>Lab Sample ID:</b> 042418740-0017C			
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4C- Texture			<b>Lab Sample ID:</b> 042418740-0018			
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-4C- Tape			<b>Lab Sample ID:</b> 042418740-0018A			
<b>Sample Description:</b> Tape						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	99.0%	1.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-4C- Joint Compound **Lab Sample ID:** 042418740-0018B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-4C- Drywall **Lab Sample ID:** 042418740-0018C  
**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-5A- Texture/ Joint Compound **Lab Sample ID:** 042418740-0019  
**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.25%	0.75% Chrysotile	

**Client Sample ID:** RMS-D-5A- Tape **Lab Sample ID:** 042418740-0019A  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-5A- Drywall **Lab Sample ID:** 042418740-0019B  
**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-5Q- Texture **Lab Sample ID:** 042418740-0020  
**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-5Q- Tape **Lab Sample ID:** 042418740-0020A  
**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-5Q- Joint Compound **Lab Sample ID:** 042418740-0020B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.50%	0.50% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-5Q- Drywall **Lab Sample ID:** 042418740-0020C

**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-5Q- Composite

**Lab Sample ID:** 042418740-0020D

**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	20.0%	80.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	99.5%	0.5% Chrysotile	This is a composite result of drywall, jt. compound, and tape.

**Client Sample ID:** RMS-D-5B- Texture

**Lab Sample ID:** 042418740-0021

**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024				Insufficient Material	

**Client Sample ID:** RMS-D-5B- Drywall

**Lab Sample ID:** 042418740-0021A

**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-5C- Texture

**Lab Sample ID:** 042418740-0022

**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-5C- Drywall

**Lab Sample ID:** 042418740-0022A

**Sample Description:** Light Sand Textured Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-6A- Rough Coat

**Lab Sample ID:** 042418740-0023

**Sample Description:** Rough Coat Material

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	White	8.0%	92.0%	None Detected	

**Client Sample ID:** RMS-D-6A- Foam Board

**Lab Sample ID:** 042418740-0023A

**Sample Description:** Foam Board

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Blue	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-6A- Adhesive			<b>Lab Sample ID:</b> 042418740-0023B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-6B- Rough Coat			<b>Lab Sample ID:</b> 042418740-0024			
<b>Sample Description:</b> Rough Coat Material						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	8.0%	92.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-6B- Foam Board			<b>Lab Sample ID:</b> 042418740-0024A			
<b>Sample Description:</b> Foam Board						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Blue	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-6B- Adhesive			<b>Lab Sample ID:</b> 042418740-0024B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-6C- Rough Coat			<b>Lab Sample ID:</b> 042418740-0025			
<b>Sample Description:</b> Rough Coat Material						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	5.0%	95.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-6C- Foam Board			<b>Lab Sample ID:</b> 042418740-0025A			
<b>Sample Description:</b> Foam Board						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Blue	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-6C- Adhesive			<b>Lab Sample ID:</b> 042418740-0025B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-7A- Concrete			<b>Lab Sample ID:</b> 042418740-0026			
<b>Sample Description:</b> Heavy Gloss Texture - Concrete						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	<1% Chrysotile	Concretes are inseparable.
400 PLM Pt Ct	09/26/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-7B- Concrete		<b>Lab Sample ID:</b> 042418740-0027				
<b>Sample Description:</b> Heavy Gloss Texture - Concrete						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	<1% Chrysotile	Concretes are inseparable.
400 PLM Pt Ct	09/26/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	
<b>Client Sample ID:</b> RMS-D-7C- Concrete		<b>Lab Sample ID:</b> 042418740-0028				
<b>Sample Description:</b> Heavy Gloss Texture - Concrete						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-7C- Concrete 2		<b>Lab Sample ID:</b> 042418740-0028A				
<b>Sample Description:</b> Heavy Gloss Texture - Concrete						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	
<b>Client Sample ID:</b> RMS-D-8A- Texture		<b>Lab Sample ID:</b> 042418740-0029				
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-8A- Drywall		<b>Lab Sample ID:</b> 042418740-0029A				
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Green	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-8B- Drywall		<b>Lab Sample ID:</b> 042418740-0030				
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Green	12.0%	88.0%	None Detected	No Texture present.
<b>Client Sample ID:</b> RMS-D-8C- Texture		<b>Lab Sample ID:</b> 042418740-0031				
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-8C- Drywall		<b>Lab Sample ID:</b> 042418740-0031A				
<b>Sample Description:</b> Smooth Textured Drywall						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Green	12.0%	88.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-8D- Texture **Lab Sample ID:** 042418740-0032

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-8D- Drywall **Lab Sample ID:** 042418740-0032A

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Green	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-8E- Drywall **Lab Sample ID:** 042418740-0033

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/Green	10.0%	90.0%	None Detected	No Texture present.

**Client Sample ID:** RMS-D-8F- Texture **Lab Sample ID:** 042418740-0034

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-8F- Drywall **Lab Sample ID:** 042418740-0034A

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/Green	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-8G- Texture **Lab Sample ID:** 042418740-0035

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-8G- Drywall **Lab Sample ID:** 042418740-0035A

**Sample Description:** Smooth Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-9A- Drywall **Lab Sample ID:** 042418740-0036

**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	No Texture present.





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-9B- Texture

**Lab Sample ID:** 042418740-0037

**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	

**Client Sample ID:** RMS-D-9B- Drywall

**Lab Sample ID:** 042418740-0037A

**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-9Q- Drywall

**Lab Sample ID:** 042418740-0038

**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	12.0%	88.0%	None Detected	No Texture present.

**Client Sample ID:** RMS-D-9C- Texture

**Lab Sample ID:** 042418740-0039

**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	

**Client Sample ID:** RMS-D-9C- Drywall

**Lab Sample ID:** 042418740-0039A

**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-10A- Paint/ Coating

**Lab Sample ID:** 042418740-0040

**Sample Description:** White CMU Filler

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Yellow	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-10A- CMU

**Lab Sample ID:** 042418740-0040A

**Sample Description:** White CMU Filler

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-10B- CMU

**Lab Sample ID:** 042418740-0041

**Sample Description:** White CMU Filler

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Gray	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-10C- CMU		<b>Lab Sample ID:</b> 042418740-0042				
<b>Sample Description:</b> White CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-10D- CMU		<b>Lab Sample ID:</b> 042418740-0043				
<b>Sample Description:</b> White CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-10E- CMU		<b>Lab Sample ID:</b> 042418740-0044				
<b>Sample Description:</b> White CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-10F- CMU		<b>Lab Sample ID:</b> 042418740-0045				
<b>Sample Description:</b> White CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-10G- CMU		<b>Lab Sample ID:</b> 042418740-0046				
<b>Sample Description:</b> White CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-11A- CMU/ Filler		<b>Lab Sample ID:</b> 042418740-0047				
<b>Sample Description:</b> Tan CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-11B- CMU		<b>Lab Sample ID:</b> 042418740-0048				
<b>Sample Description:</b> Tan CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-11C- CMU		<b>Lab Sample ID:</b> 042418740-0049				
<b>Sample Description:</b> Tan CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-11D- CMU		<b>Lab Sample ID:</b> 042418740-0050				
<b>Sample Description:</b> Tan CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-11E- CMU			<b>Lab Sample ID:</b> 042418740-0051			
<b>Sample Description:</b> Tan CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-12A- CMU			<b>Lab Sample ID:</b> 042418740-0052			
<b>Sample Description:</b> Green CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-12B- CMU			<b>Lab Sample ID:</b> 042418740-0053			
<b>Sample Description:</b> Green CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-12C- CMU			<b>Lab Sample ID:</b> 042418740-0054			
<b>Sample Description:</b> Green CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-12D- CMU			<b>Lab Sample ID:</b> 042418740-0055			
<b>Sample Description:</b> Green CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-12E- CMU			<b>Lab Sample ID:</b> 042418740-0056			
<b>Sample Description:</b> Green CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-13A- CMU			<b>Lab Sample ID:</b> 042418740-0057			
<b>Sample Description:</b> Blue CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-13Q- CMU			<b>Lab Sample ID:</b> 042418740-0058			
<b>Sample Description:</b> Blue CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-13B- Paint/ CMU			<b>Lab Sample ID:</b> 042418740-0059			
<b>Sample Description:</b> Blue CMU Filler						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-13C- Paint/ Adhesive				<b>Lab Sample ID:</b>	042418740-0060
<b>Sample Description:</b>	Paint Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	<1%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-13C- CMU				<b>Lab Sample ID:</b>	042418740-0060A
<b>Sample Description:</b>	Blue CMU Filler					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-13D- CMU				<b>Lab Sample ID:</b>	042418740-0061
<b>Sample Description:</b>	Blue CMU Filler					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-13E- CMU				<b>Lab Sample ID:</b>	042418740-0062
<b>Sample Description:</b>	Blue CMU Filler					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-14A- Brick				<b>Lab Sample ID:</b>	042418740-0063
<b>Sample Description:</b>	Brick					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-14A- Mortar				<b>Lab Sample ID:</b>	042418740-0063A
<b>Sample Description:</b>	Mortar					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-14B- Brick				<b>Lab Sample ID:</b>	042418740-0064
<b>Sample Description:</b>	Brick					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-14B- Mortar				<b>Lab Sample ID:</b>	042418740-0064A
<b>Sample Description:</b>	Mortar					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-14C- Brick				<b>Lab Sample ID:</b>	042418740-0065
<b>Sample Description:</b>	Brick					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-14C- Mortar			<b>Lab Sample ID:</b> 042418740-0065A			
<b>Sample Description:</b> Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-14D- Brick			<b>Lab Sample ID:</b> 042418740-0066			
<b>Sample Description:</b> Brick						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-14D- Mortar			<b>Lab Sample ID:</b> 042418740-0066A			
<b>Sample Description:</b> Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-15A- VCT			<b>Lab Sample ID:</b> 042418740-0067			
<b>Sample Description:</b> Tan 9x9 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan/Pink	0.0%	97.0%	3% Chrysotile	
<b>Client Sample ID:</b> RMS-D-15A- Mastic/ Leveler			<b>Lab Sample ID:</b> 042418740-0067A			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black/Beige	0.0%	95.0%	5% Chrysotile	Inseparable materials.
<b>Client Sample ID:</b> RMS-D-15B- VCT			<b>Lab Sample ID:</b> 042418740-0068			
<b>Sample Description:</b> Tan 9x9 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan/Beige	0.0%	97.0%	3% Chrysotile	
<b>Client Sample ID:</b> RMS-D-15B- Mastic			<b>Lab Sample ID:</b> 042418740-0068A			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Black	0.0%	92.0%	8% Chrysotile	
<b>Client Sample ID:</b> RMS-D-16A- VCT/ Mastic			<b>Lab Sample ID:</b> 042418740-0069			
<b>Sample Description:</b> Peach 9x9 VCT / Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	92.0%	8% Chrysotile	Inseparable materials.
<b>Client Sample ID:</b> RMS-D-16B- VCT/ Mastic			<b>Lab Sample ID:</b> 042418740-0070			
<b>Sample Description:</b> Peach 9x9 VCT / Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	92.0%	8% Chrysotile	Inseparable materials.



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-17A- VCT		<b>Lab Sample ID:</b> 042418740-0071				
<b>Sample Description:</b> Blue 12x12 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Blue	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-17A- Mastic		<b>Lab Sample ID:</b> 042418740-0071A				
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-17B- VCT		<b>Lab Sample ID:</b> 042418740-0072				
<b>Sample Description:</b> Blue 12x12 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Blue	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-17B- Mastic		<b>Lab Sample ID:</b> 042418740-0072A				
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Black/Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-18A- Tile		<b>Lab Sample ID:</b> 042418740-0073				
<b>Sample Description:</b> 1x1 Mosaic Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-18A- Grout/ Mortar		<b>Lab Sample ID:</b> 042418740-0073A				
<b>Sample Description:</b> Grout / Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-18A- Adhesive		<b>Lab Sample ID:</b> 042418740-0073B				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-18B- Tile		<b>Lab Sample ID:</b> 042418740-0074				
<b>Sample Description:</b> 1x1 Mosaic Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-18B- Tile 2		<b>Lab Sample ID:</b> 042418740-0074A				
<b>Sample Description:</b> 1x1 Mosaic Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Blue	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-18B- Grout/ Mortar **Lab Sample ID:** 042418740-0074B

**Sample Description:** Grout / Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/Beige	0.0%	100.0%	None Detected	Inseparable materials.

**Client Sample ID:** RMS-D-18B- Adhesive

**Lab Sample ID:** 042418740-0074C

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024				Insufficient Material	

**Client Sample ID:** RMS-D-19A- Ceramic Tile

**Lab Sample ID:** 042418740-0075

**Sample Description:** Light Blue 4x4 Ceramic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Blue	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-19A- Grout

**Lab Sample ID:** 042418740-0075A

**Sample Description:** Grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-19A- Adhesive

**Lab Sample ID:** 042418740-0075B

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	97.0%	3% Chrysotile	

**Client Sample ID:** RMS-D-19B- Ceramic Tile

**Lab Sample ID:** 042418740-0076

**Sample Description:** Light Blue 4x4 Ceramic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White/Blue	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-19B- Grout

**Lab Sample ID:** 042418740-0076A

**Sample Description:** Grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-19B- Adhesive

**Lab Sample ID:** 042418740-0076B

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan	0.0%	97.0%	3% Chrysotile	

**Client Sample ID:** RMS-D-20A- Ceramic Tile

**Lab Sample ID:** 042418740-0077

**Sample Description:** Teal 4x4 Ceramic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-20A- Adhesive		<b>Lab Sample ID:</b> 042418740-0077A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-20A- Joint Compound		<b>Lab Sample ID:</b> 042418740-0077B				
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-20Q- Ceramic Tile		<b>Lab Sample ID:</b> 042418740-0078				
<b>Sample Description:</b> Teal 4x4 Ceramic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Green	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-20Q- Adhesive		<b>Lab Sample ID:</b> 042418740-0078A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-20Q- Joint Compound		<b>Lab Sample ID:</b> 042418740-0078B				
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-20B- Ceramic Tile		<b>Lab Sample ID:</b> 042418740-0079				
<b>Sample Description:</b> Teal 4x4 Ceramic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White/Green	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-20B- Grout		<b>Lab Sample ID:</b> 042418740-0079A				
<b>Sample Description:</b> Grout						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-20B- Adhesive		<b>Lab Sample ID:</b> 042418740-0079B				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-20B- Joint Compound		<b>Lab Sample ID:</b> 042418740-0079C				
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.25%	0.75% Chrysotile	
<b>Client Sample ID:</b> RMS-D-21A- Ceramic Tile		<b>Lab Sample ID:</b> 042418740-0080				
<b>Sample Description:</b> White 4x4 Ceramic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-21A- Grout		<b>Lab Sample ID:</b> 042418740-0080A				
<b>Sample Description:</b> Grout						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-21A- Adhesive		<b>Lab Sample ID:</b> 042418740-0080B				
<b>Sample Description:</b> White 4x4 Ceramic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-21B- Ceramic Tile		<b>Lab Sample ID:</b> 042418740-0081				
<b>Sample Description:</b> White 4x4 Ceramic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-21B- Grout		<b>Lab Sample ID:</b> 042418740-0081A				
<b>Sample Description:</b> Grout						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-21B- Adhesive		<b>Lab Sample ID:</b> 042418740-0081B				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-22A- Ceramic Tile		<b>Lab Sample ID:</b> 042418740-0082				
<b>Sample Description:</b> Blue 4x4 Ceramic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Blue	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-22A- Grout				<b>Lab Sample ID:</b>	042418740-0082A
<b>Sample Description:</b>	Grout					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-22A- Adhesive				<b>Lab Sample ID:</b>	042418740-0082B
<b>Sample Description:</b>	Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-22B- Ceramic Tile				<b>Lab Sample ID:</b>	042418740-0083
<b>Sample Description:</b>	Blue 4x4 Ceramic					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White/Blue	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-22B- Grout				<b>Lab Sample ID:</b>	042418740-0083A
<b>Sample Description:</b>	Grout					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-22B- Adhesive				<b>Lab Sample ID:</b>	042418740-0083B
<b>Sample Description:</b>	Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-23A- Ceramic Tile				<b>Lab Sample ID:</b>	042418740-0084
<b>Sample Description:</b>	Pink 4x4 Ceramic					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Pink	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-23A- Grout				<b>Lab Sample ID:</b>	042418740-0084A
<b>Sample Description:</b>	Grout					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-23A- Adhesive				<b>Lab Sample ID:</b>	042418740-0084B
<b>Sample Description:</b>	Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-23B- Ceramic Tile				<b>Lab Sample ID:</b>	042418740-0085
<b>Sample Description:</b>	Pink 4x4 Ceramic					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White/Pink	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-23B- Grout			<b>Lab Sample ID:</b> 042418740-0085A			
<b>Sample Description:</b> Grout						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-23B- Adhesive			<b>Lab Sample ID:</b> 042418740-0085B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-23B- Joint Compound			<b>Lab Sample ID:</b> 042418740-0085C			
<b>Sample Description:</b> Joint Compound						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-24A- Epoxy			<b>Lab Sample ID:</b> 042418740-0086			
<b>Sample Description:</b> Blue Epoxy Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-24A- Epoxy 2			<b>Lab Sample ID:</b> 042418740-0086A			
<b>Sample Description:</b> Blue Epoxy Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-24A- Mastic			<b>Lab Sample ID:</b> 042418740-0086B			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-24B- Epoxy			<b>Lab Sample ID:</b> 042418740-0087			
<b>Sample Description:</b> Blue Epoxy Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-24B- Mastic			<b>Lab Sample ID:</b> 042418740-0087A			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-25A- Epoxy			<b>Lab Sample ID:</b> 042418740-0088			
<b>Sample Description:</b> Green Epoxy Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Green/Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-25A- Concrete			<b>Lab Sample ID:</b> 042418740-0088A			
<b>Sample Description:</b> Concrete						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-25B- Epoxy/ Concrete			<b>Lab Sample ID:</b> 042418740-0089			
<b>Sample Description:</b> Green Epoxy Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	100.0%	None Detected	Inseparable materials.
<b>Client Sample ID:</b> RMS-D-26A- VCT			<b>Lab Sample ID:</b> 042418740-0090			
<b>Sample Description:</b> White/Black 12x12 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-26A- Mastic/ Leveler			<b>Lab Sample ID:</b> 042418740-0090A			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Yellow	0.0%	100.0%	None Detected	Inseparable materials.
<b>Client Sample ID:</b> RMS-D-26B- VCT			<b>Lab Sample ID:</b> 042418740-0091			
<b>Sample Description:</b> White/Black 12x12 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-26B- Mastic			<b>Lab Sample ID:</b> 042418740-0091A			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-27A- VCT			<b>Lab Sample ID:</b> 042418740-0092			
<b>Sample Description:</b> Tan/Brown 12x12 VCT						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-27A- Mastic			<b>Lab Sample ID:</b> 042418740-0092A			
<b>Sample Description:</b> Mastic						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-27B- VCT **Lab Sample ID:** 042418740-0093  
**Sample Description:** Tan/Brown 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-27B- Mastic **Lab Sample ID:** 042418740-0093A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan/Black	0.0%	95.0%	5% Chrysotile	

**Client Sample ID:** RMS-D-28A- VCT **Lab Sample ID:** 042418740-0094  
**Sample Description:** Brown/Gray 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-28A- Mastic **Lab Sample ID:** 042418740-0094A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black/Yellow	0.0%	96.0%	4% Chrysotile	

**Client Sample ID:** RMS-D-28B- VCT **Lab Sample ID:** 042418740-0095  
**Sample Description:** Brown/Gray 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-28B- Mastic/ Leveler **Lab Sample ID:** 042418740-0095A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow/Beige	0.0%	100.0%	None Detected	Inseparable materials.

**Client Sample ID:** RMS-D-29A- VCT **Lab Sample ID:** 042418740-0096  
**Sample Description:** Tan/Gray 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Tan	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-29A- Mastic/ Leveler **Lab Sample ID:** 042418740-0096A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	95.0%	5% Chrysotile	Inseparable materials

**Client Sample ID:** RMS-D-29B- VCT **Lab Sample ID:** 042418740-0097  
**Sample Description:** Tan/Gray 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Tan	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-29B- Mastic/ Leveler **Lab Sample ID:** 042418740-0097A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	95.0%	5% Chrysotile	Inseparable materials.

**Client Sample ID:** RMS-D-29Q- VCT **Lab Sample ID:** 042418740-0098  
**Sample Description:** Tan/Gray 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/Tan	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-29Q- Mastic/ Leveler **Lab Sample ID:** 042418740-0098A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	95.0%	5% Chrysotile	Inseparable materials.

**Client Sample ID:** RMS-D-30A- VCT **Lab Sample ID:** 042418740-0099  
**Sample Description:** Brown Tiger 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	97.0%	3% Chrysotile	

**Client Sample ID:** RMS-D-30A- Mastic **Lab Sample ID:** 042418740-0099A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-30B- VCT **Lab Sample ID:** 042418740-0100  
**Sample Description:** Brown Tiger 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	97.0%	3% Chrysotile	

**Client Sample ID:** RMS-D-30B- Mastic/ Leveler **Lab Sample ID:** 042418740-0100A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Black/Beige	0.0%	100.0%	None Detected	Inseparable materials.

**Client Sample ID:** RMS-D-31A- Carpet **Lab Sample ID:** 042418740-0101  
**Sample Description:** Blue Carpet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	95.0%	5.0%	None Detected	

**Client Sample ID:** RMS-D-31A- Adhesive **Lab Sample ID:** 042418740-0101A  
**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Yellow/Beige	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-31B- Carpet		<b>Lab Sample ID:</b> 042418740-0102				
<b>Sample Description:</b> Blue Carpet						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	95.0%	5.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-31B- Adhesive		<b>Lab Sample ID:</b> 042418740-0102A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow/Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-32A- Carpet		<b>Lab Sample ID:</b> 042418740-0103				
<b>Sample Description:</b> Brown Carpet						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	95.0%	5.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-32A- Adhesive		<b>Lab Sample ID:</b> 042418740-0103A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-32B- Carpet		<b>Lab Sample ID:</b> 042418740-0104				
<b>Sample Description:</b> Brown Carpet						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	95.0%	5.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-32B- Adhesive		<b>Lab Sample ID:</b> 042418740-0104A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-33A- Carpet		<b>Lab Sample ID:</b> 042418740-0105				
<b>Sample Description:</b> Purple Carpet						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	95.0%	5.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-33A- Adhesive/ Leveler		<b>Lab Sample ID:</b> 042418740-0105A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	0.0%	100.0%	<1% Chrysotile	Inseparable materials.
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	100%	<0.25% Chrysotile	Inseparable materials.



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-33B- Carpet **Lab Sample ID:** 042418740-0106  
**Sample Description:** Purple Carpet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	95.0%	5.0%	None Detected	

**Client Sample ID:** RMS-D-33B- Adhesive/ Leveler **Lab Sample ID:** 042418740-0106A  
**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	98.0%	2% Chrysotile	Inseparable materials.
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	100%	<0.25% Chrysotile	Inseparable materials.

**Client Sample ID:** RMS-D-34A- Carpet **Lab Sample ID:** 042418740-0107  
**Sample Description:** Dark Brown Carpet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	95.0%	5.0%	None Detected	

**Client Sample ID:** RMS-D-34A- Adhesive **Lab Sample ID:** 042418740-0107A  
**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-34B- Carpet **Lab Sample ID:** 042418740-0108  
**Sample Description:** Dark Brown Carpet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	95.0%	5.0%	None Detected	

**Client Sample ID:** RMS-D-34B- Adhesive **Lab Sample ID:** 042418740-0108A  
**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-35A **Lab Sample ID:** 042418740-0109  
**Sample Description:** Fireproofing Spray

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	5.0%	15% Chrysotile	

**Client Sample ID:** RMS-D-35B **Lab Sample ID:** 042418740-0110  
**Sample Description:** Fireproofing Spray

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	5.0%	15% Chrysotile	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-35C		<b>Lab Sample ID:</b> 042418740-0111				
<b>Sample Description:</b> Fireproofing Spray						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	5.0%	15% Chrysotile	
<b>Client Sample ID:</b> RMS-D-35D		<b>Lab Sample ID:</b> 042418740-0112				
<b>Sample Description:</b> Fireproofing Spray						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	5.0%	15% Chrysotile	
<b>Client Sample ID:</b> RMS-D-35E		<b>Lab Sample ID:</b> 042418740-0113				
<b>Sample Description:</b> Fireproofing Spray						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	5.0%	15% Chrysotile	
<b>Client Sample ID:</b> RMS-D-36A		<b>Lab Sample ID:</b> 042418740-0114				
<b>Sample Description:</b> 2'x2' Star Pattern Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-36B		<b>Lab Sample ID:</b> 042418740-0115				
<b>Sample Description:</b> 2'x2' Star Pattern Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-37A		<b>Lab Sample ID:</b> 042418740-0116				
<b>Sample Description:</b> 2'x2' Fissure Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-37B		<b>Lab Sample ID:</b> 042418740-0117				
<b>Sample Description:</b> 2'x2' Fissure Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-37Q		<b>Lab Sample ID:</b> 042418740-0118				
<b>Sample Description:</b> 2'x2' Fissure Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-38A		<b>Lab Sample ID:</b> 042418740-0119				
<b>Sample Description:</b> 2'x2' Textured Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-38B				<b>Lab Sample ID:</b>	042418740-0120
<b>Sample Description:</b>	2'x2' Textured Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-39A				<b>Lab Sample ID:</b>	042418740-0121
<b>Sample Description:</b>	2'x4' Horizontal Fissure Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-39B				<b>Lab Sample ID:</b>	042418740-0122
<b>Sample Description:</b>	2'x4' Horizontal Fissure Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-40A- Ceiling Tile				<b>Lab Sample ID:</b>	042418740-0123
<b>Sample Description:</b>	12"x12" Dots Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White/Beige	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-40A- Mastic				<b>Lab Sample ID:</b>	042418740-0123A
<b>Sample Description:</b>	Mastic					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-40B- Ceiling Tile				<b>Lab Sample ID:</b>	042418740-0124
<b>Sample Description:</b>	12"x12" Dots Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White/Beige	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-40B- Mastic				<b>Lab Sample ID:</b>	042418740-0124A
<b>Sample Description:</b>	Mastic					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-A41A- Ceiling Tile				<b>Lab Sample ID:</b>	042418740-0125
<b>Sample Description:</b>	2'x2' Vertical Fissure Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-A41B- Ceiling Tile				<b>Lab Sample ID:</b>	042418740-0126
<b>Sample Description:</b>	2'x2' Vertical Fissure Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-41A- Mastic

**Lab Sample ID:** 042418740-0127

**Sample Description:** Mastic

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-41A- Ceiling Tile

**Lab Sample ID:** 042418740-0127A

**Sample Description:** 2'x4' Tex. Glitter Ceiling Tile

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	

**Client Sample ID:** RMS-D-41B- Ceiling Tile

**Lab Sample ID:** 042418740-0128

**Sample Description:** 2'x4' Tex. Glitter Ceiling Tile

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	

**Client Sample ID:** RMS-D-42A- Ceiling Tile

**Lab Sample ID:** 042418740-0129

**Sample Description:** 2'x4' Star Pattern Ceiling Tile

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	

**Client Sample ID:** RMS-D-42B- Ceiling Tile

**Lab Sample ID:** 042418740-0130

**Sample Description:** 2'x4' Star Pattern Ceiling Tile

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	

**Client Sample ID:** RMS-D-43A- Adhesive

**Lab Sample ID:** 042418740-0131

**Sample Description:** Wallpad Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-43A- Adhesive 2

**Lab Sample ID:** 042418740-0131A

**Sample Description:** Wallpad Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-43B- Adhesive

**Lab Sample ID:** 042418740-0132

**Sample Description:** Wallpad Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-44A- Joint Compound **Lab Sample ID:** 042418740-0133  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	98.0%	2% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-44A- Tape **Lab Sample ID:** 042418740-0133A  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-44A- Joint Compound 2 **Lab Sample ID:** 042418740-0133B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	98.0%	2% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-44A- Drywall **Lab Sample ID:** 042418740-0133C  
**Sample Description:** Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-44A- Composite **Lab Sample ID:** 042418740-0133D  
**Sample Description:** Joint Compound - Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	20.0%	80.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	99.5%	0.5% Chrysotile	This is a composite result of drywall, jt. compound, and tape.

**Client Sample ID:** RMS-D-44B- Joint Compound **Lab Sample ID:** 042418740-0134  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	98.0%	2% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	

**Client Sample ID:** RMS-D-44B- Tape **Lab Sample ID:** 042418740-0134A  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-44B- Joint Compound 2 **Lab Sample ID:** 042418740-0134B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	98.0%	2% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-44B- Drywall **Lab Sample ID:** 042418740-0134C  
**Sample Description:** Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-44B- Composite **Lab Sample ID:** 042418740-0134D  
**Sample Description:** Joint Compound - Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	20.0%	80.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	99.6%	0.4% Chrysotile	This is a composite result of drywall, jt. compound, and tape.

**Client Sample ID:** RMS-D-44C- Joint Compound **Lab Sample ID:** 042418740-0135  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-44C- Tape **Lab Sample ID:** 042418740-0135A  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-44C- Joint Compound 2 **Lab Sample ID:** 042418740-0135B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-44C- Drywall **Lab Sample ID:** 042418740-0135C  
**Sample Description:** Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-44D- Tape **Lab Sample ID:** 042418740-0136  
**Sample Description:** Tape

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	99.0%	1.0%	None Detected	

**Client Sample ID:** RMS-D-44D- Joint Compound **Lab Sample ID:** 042418740-0136A  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-44D- Drywall **Lab Sample ID:** 042418740-0136B  
**Sample Description:** Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-45A- Plaster **Lab Sample ID:** 042418740-0137  
**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-45A- Plaster 2 **Lab Sample ID:** 042418740-0137A  
**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-45Q- Plaster **Lab Sample ID:** 042418740-0138  
**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-45Q- Plaster 2 **Lab Sample ID:** 042418740-0138A  
**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-45B- Plaster **Lab Sample ID:** 042418740-0139  
**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-45B- Plaster 2 **Lab Sample ID:** 042418740-0139A  
**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-45C- Plaster **Lab Sample ID:** 042418740-0140

**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-45C- Plaster 2 **Lab Sample ID:** 042418740-0140A

**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Gray	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-45D- Plaster **Lab Sample ID:** 042418740-0141

**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-45D- Plaster 2 **Lab Sample ID:** 042418740-0141A

**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-45E- Plaster **Lab Sample ID:** 042418740-0142

**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-45E- Plaster 2 **Lab Sample ID:** 042418740-0142A

**Sample Description:** Ext. Rough Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-46A- Paint/ Coating **Lab Sample ID:** 042418740-0143

**Sample Description:** Painted Brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Beige	0.0%	100.0%	None Detected	Inseparable materials.

**Client Sample ID:** RMS-D-46A- Brick **Lab Sample ID:** 042418740-0143A

**Sample Description:** Painted Brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-46A- Mortar			<b>Lab Sample ID:</b> 042418740-0143B			
<b>Sample Description:</b> Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-46B- Brick			<b>Lab Sample ID:</b> 042418740-0144			
<b>Sample Description:</b> Painted Brick						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-46B- Mortar			<b>Lab Sample ID:</b> 042418740-0144A			
<b>Sample Description:</b> Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-47A- Brick			<b>Lab Sample ID:</b> 042418740-0145			
<b>Sample Description:</b> Brick						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-47A- Mortar			<b>Lab Sample ID:</b> 042418740-0145A			
<b>Sample Description:</b> Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-47B- Brick			<b>Lab Sample ID:</b> 042418740-0146			
<b>Sample Description:</b> Brick						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-47B- Mortar			<b>Lab Sample ID:</b> 042418740-0146A			
<b>Sample Description:</b> Mortar						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-48A- Expansion Joint			<b>Lab Sample ID:</b> 042418740-0147			
<b>Sample Description:</b> Black Expansion Joint						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-48A- Foam			<b>Lab Sample ID:</b> 042418740-0147A			
<b>Sample Description:</b> Foam						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-48B- Expansion Joint/ Foam

**Lab Sample ID:** 042418740-0148

**Sample Description:** Black Expansion Joint

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Black/Yellow	0.0%	100.0%	None Detected	Inseparable materials.

**Client Sample ID:** RMS-D-49A- Paint/ Caulk

**Lab Sample ID:** 042418740-0149

**Sample Description:** Brown Window Caulk

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Black	0.0%	100.0%	None Detected	Inseparable materials.

**Client Sample ID:** RMS-D-49A- Foam

**Lab Sample ID:** 042418740-0149A

**Sample Description:** Foam

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-49B- Caulk

**Lab Sample ID:** 042418740-0150

**Sample Description:** Brown Window Caulk

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Black	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-50A- Ceramic Block

**Lab Sample ID:** 042418740-0151

**Sample Description:** Ceramic Block Wall Base

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-50A- Grout

**Lab Sample ID:** 042418740-0151A

**Sample Description:** Grout

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-50B- Ceramic Block

**Lab Sample ID:** 042418740-0152

**Sample Description:** Ceramic Block Wall Base

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-50B- Grout

**Lab Sample ID:** 042418740-0152A

**Sample Description:** Grout

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-51A

**Lab Sample ID:** 042418740-0153

**Sample Description:** Insulated Door Fill - Powder

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	30.0%	70.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-51B			<b>Lab Sample ID:</b> 042418740-0154			
<b>Sample Description:</b> Insulated Door Fill - Powder						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	15.0%	85.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-51C			<b>Lab Sample ID:</b> 042418740-0155			
<b>Sample Description:</b> Insulated Door Fill - Powder						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	15.0%	85.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-52A			<b>Lab Sample ID:</b> 042418740-0156			
<b>Sample Description:</b> Insulated Door Fill - Fiber						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-52B			<b>Lab Sample ID:</b> 042418740-0157			
<b>Sample Description:</b> Insulated Door Fill - Fiber						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-52C			<b>Lab Sample ID:</b> 042418740-0158			
<b>Sample Description:</b> Insulated Door Fill - Fiber						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-52Q			<b>Lab Sample ID:</b> 042418740-0159			
<b>Sample Description:</b> Insulated Door Fill - Fiber						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-53A			<b>Lab Sample ID:</b> 042418740-0160			
<b>Sample Description:</b> Rock Décor Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-53B			<b>Lab Sample ID:</b> 042418740-0161			
<b>Sample Description:</b> Rock Décor Flooring						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-54A- Tar **Lab Sample ID:** 042418740-0162

**Sample Description:** Blue Foam Panel Adhesive - Tunnel

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	98.0%	2% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Black	0.0%	95.7%	4.3% Chrysotile	

**Client Sample ID:** RMS-D-54A- Foam

**Lab Sample ID:** 042418740-0162A

**Sample Description:** Blue Foam Panel Adhesive - Tunnel

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Blue	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-54B- Tar

**Lab Sample ID:** 042418740-0163

**Sample Description:** Blue Foam Panel Adhesive - Tunnel

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	98.0%	2% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Black	0.0%	95.4%	4.6% Chrysotile	

**Client Sample ID:** RMS-D-54B- Foam

**Lab Sample ID:** 042418740-0163A

**Sample Description:** Blue Foam Panel Adhesive - Tunnel

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Blue	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-55A

**Lab Sample ID:** 042418740-0164

**Sample Description:** Lab Tables

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	70.0%	30% Chrysotile	

**Client Sample ID:** RMS-D-55B

**Lab Sample ID:** 042418740-0165

**Sample Description:** Lab Tables

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	70.0%	30% Chrysotile	

**Client Sample ID:** RMS-D-56A

**Lab Sample ID:** 042418740-0166

**Sample Description:** Sink Coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	95.0%	5% Chrysotile	

**Client Sample ID:** RMS-D-56B

**Lab Sample ID:** 042418740-0167

**Sample Description:** Sink Coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	95.0%	5% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-57A		<b>Lab Sample ID:</b> 042418740-0168				
<b>Sample Description:</b> Vibration Isolator - 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	40.0%	10.0%	50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-57B		<b>Lab Sample ID:</b> 042418740-0169				
<b>Sample Description:</b> Vibration Isolator - 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	40.0%	10.0%	50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-58A		<b>Lab Sample ID:</b> 042418740-0170				
<b>Sample Description:</b> Vibration Isolator - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	40.0%	10.0%	50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-58B		<b>Lab Sample ID:</b> 042418740-0171				
<b>Sample Description:</b> Vibration Isolator - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	40.0%	10.0%	50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-59A		<b>Lab Sample ID:</b> 042418740-0172				
<b>Sample Description:</b> Vibration Isolator - 3						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	40.0%	10.0%	50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-59B		<b>Lab Sample ID:</b> 042418740-0173				
<b>Sample Description:</b> Vibration Isolator - 3						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	40.0%	10.0%	50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-60A- Wrap		<b>Lab Sample ID:</b> 042418740-0174				
<b>Sample Description:</b> Insulation Mat on Ducting						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-60A- Adhesive / Wrap 2		<b>Lab Sample ID:</b> 042418740-0174A				
<b>Sample Description:</b> Insulation Mat on Ducting						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Beige	40.0%	10.0%	50% Chrysotile	Inseparable materials.
<b>Client Sample ID:</b> RMS-D-60A- Adhesive 2		<b>Lab Sample ID:</b> 042418740-0174B				
<b>Sample Description:</b> Insulation Mat on Ducting						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-60A- Insulation				<b>Lab Sample ID:</b>	042418740-0174C
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-60B- Wrap				<b>Lab Sample ID:</b>	042418740-0175
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-60B- Adhesive / Wrap 2				<b>Lab Sample ID:</b>	042418740-0175A
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Beige	40.0%	10.0%	50% Chrysotile	Inseparable materials.
<b>Client Sample ID:</b>	RMS-D-60B- Adhesive 2				<b>Lab Sample ID:</b>	042418740-0175B
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-60B- Insulation				<b>Lab Sample ID:</b>	042418740-0175C
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-60C- Wrap				<b>Lab Sample ID:</b>	042418740-0176
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-60C- Adhesive				<b>Lab Sample ID:</b>	042418740-0176A
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-60C- Insulation				<b>Lab Sample ID:</b>	042418740-0176B
<b>Sample Description:</b>	Insulation Mat on Ducting					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	99.0%	1.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-61A- Flooring				<b>Lab Sample ID:</b>	042418740-0177
<b>Sample Description:</b>	Rubber Floor Transition					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Black	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: RMS-D-61A- Adhesive Lab Sample ID: 042418740-0177A

Sample Description: Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/11/2024	Beige	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-61A- Leveler/ Adhesive 2

Lab Sample ID: 042418740-0177B

Sample Description: Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/11/2024	Various	0.0%	100.0%	<1% Chrysotile	Inseparable materials.
400 PLM PtCt Grav. Red.	09/26/2024	Various	0.0%	100%	<0.25% Chrysotile	Inseparable materials.

Client Sample ID: RMS-D-61B- Flooring

Lab Sample ID: 042418740-0178

Sample Description: Rubber Floor Transition

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/11/2024	Black	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-61B- Adhesive

Lab Sample ID: 042418740-0178A

Sample Description: Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/11/2024	Black/Beige	0.0%	98.0%	2% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Black/Beige	0.0%	98.9%	1.1% Chrysotile	

Client Sample ID: RMS-D-61Q- Flooring

Lab Sample ID: 042418740-0179

Sample Description: Rubber Floor Transition

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Black	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-61Q- Adhesive

Lab Sample ID: 042418740-0179A

Sample Description: Adhesive

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Black/Beige	0.0%	96.0%	4% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Black/Beige	0.0%	98.5%	1.5% Chrysotile	

Client Sample ID: RMS-D-63A- Linoleum/ Adhesive

Lab Sample ID: 042418740-0183

Sample Description: Pebble Pattern Sink Line

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/11/2024	Various	3.0%	82.0%	15% Chrysotile	Inseparable materials.

Client Sample ID: RMS-D-63B- Linoleum/ Adhesive

Lab Sample ID: 042418740-0184

Sample Description: Pebble Pattern Sink Line

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Various	3.0%	82.0%	15% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-64A- Cove Base			<b>Lab Sample ID:</b> 042418740-0185			
<b>Sample Description:</b> Black 6" Cove Base						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-64A- Adhesive			<b>Lab Sample ID:</b> 042418740-0185A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/11/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-64B- Cove Base			<b>Lab Sample ID:</b> 042418740-0186			
<b>Sample Description:</b> Black 6" Cove Base						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-64B- Adhesive			<b>Lab Sample ID:</b> 042418740-0186A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-65A- Cove Base			<b>Lab Sample ID:</b> 042418740-0187			
<b>Sample Description:</b> Brown 4" Cove Base - 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-65A- Adhesive			<b>Lab Sample ID:</b> 042418740-0187A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-65A- Adhesive 2			<b>Lab Sample ID:</b> 042418740-0187B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	2.0%	98.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-65A- Adhesive 3			<b>Lab Sample ID:</b> 042418740-0187C			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Tan	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-65A- Joint Compound **Lab Sample ID:** 042418740-0187D

**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-65B- Cove Base

**Lab Sample ID:** 042418740-0188

**Sample Description:** Brown 4" Cove Base - 1

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-65B- Adhesive

**Lab Sample ID:** 042418740-0188A

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Tan	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-65B- Joint Compound

**Lab Sample ID:** 042418740-0188B

**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	White	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.25%	0.75% Chrysotile	

**Client Sample ID:** RMS-D-66A- Cove Base

**Lab Sample ID:** 042418740-0189

**Sample Description:** Light Brown 4" Cove Base

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-66A- Adhesive

**Lab Sample ID:** 042418740-0189A

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White/Yellow	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-66B- Cove Base

**Lab Sample ID:** 042418740-0190

**Sample Description:** Light Brown 4" Cove Base

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-66B- Adhesive

**Lab Sample ID:** 042418740-0190A

**Sample Description:** Light Brown 4" Cove Base

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	White/Yellow	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-67A- Cove Base			<b>Lab Sample ID:</b> 042418740-0191			
<b>Sample Description:</b> Black 4" Cove Base - 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-67A- Adhesive			<b>Lab Sample ID:</b> 042418740-0191A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	2.0%	98.0%	<1% Anthophyllite	
400 PLM PtCt Grav. Red.	09/26/2024	Brown	0.0%	100%	<0.25% Anthophyllite	
<b>Client Sample ID:</b> RMS-D-67B- Cove Base			<b>Lab Sample ID:</b> 042418740-0192			
<b>Sample Description:</b> Black 4" Cove Base - 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-67B- Adhesive			<b>Lab Sample ID:</b> 042418740-0192A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown	2.0%	98.0%	<1% Anthophyllite	
400 PLM PtCt Grav. Red.	09/26/2024	Brown	0.0%	100%	<0.25% Anthophyllite	
<b>Client Sample ID:</b> RMS-D-68A			<b>Lab Sample ID:</b> 042418740-0193			
<b>Sample Description:</b> Exterior Sealant - White 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	<1%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-68B			<b>Lab Sample ID:</b> 042418740-0194			
<b>Sample Description:</b> Exterior Sealant - White 1						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-69A- Sealant			<b>Lab Sample ID:</b> 042418740-0195			
<b>Sample Description:</b> Dark Brown Exterior Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	<1%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-69A- Sealant 2			<b>Lab Sample ID:</b> 042418740-0195A			
<b>Sample Description:</b> Dark Brown Exterior Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Clear	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-69A- Concrete		<b>Lab Sample ID:</b> 042418740-0195B				
<b>Sample Description:</b> Concrete						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	<1%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-69A- Debris		<b>Lab Sample ID:</b> 042418740-0195C				
<b>Sample Description:</b> Debris						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	0.0%	96.0%	4% Chrysotile	
<b>Client Sample ID:</b> RMS-D-69B- Sealant		<b>Lab Sample ID:</b> 042418740-0196				
<b>Sample Description:</b> Dark Brown Exterior Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-69B- Debris		<b>Lab Sample ID:</b> 042418740-0196A				
<b>Sample Description:</b> Debris						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray	0.0%	96.0%	4% Chrysotile	
<b>Client Sample ID:</b> RMS-D-70A- Sealant		<b>Lab Sample ID:</b> 042418740-0197				
<b>Sample Description:</b> Exterior Sealant - White 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	White	2.0%	98.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-70A- Plaster		<b>Lab Sample ID:</b> 042418740-0197A				
<b>Sample Description:</b> Plaster						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-70B		<b>Lab Sample ID:</b> 042418740-0198				
<b>Sample Description:</b> Exterior Sealant - White 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-70Q		<b>Lab Sample ID:</b> 042418740-0199				
<b>Sample Description:</b> Exterior Sealant - White 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/14/2024	White	2.0%	98.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-71A		<b>Lab Sample ID:</b> 042418740-0200				
<b>Sample Description:</b> Brown/White Garage Door Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-71B			<b>Lab Sample ID:</b> 042418740-0201			
<b>Sample Description:</b> Brown/White Garage Door Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-72A			<b>Lab Sample ID:</b> 042418740-0202			
<b>Sample Description:</b> Black Man Door Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-72B			<b>Lab Sample ID:</b> 042418740-0203			
<b>Sample Description:</b> Black Man Door Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-73A			<b>Lab Sample ID:</b> 042418740-0204			
<b>Sample Description:</b> Gray Expansion Joint						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-73B			<b>Lab Sample ID:</b> 042418740-0205			
<b>Sample Description:</b> Gray Expansion Joint						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-74A			<b>Lab Sample ID:</b> 042418740-0206			
<b>Sample Description:</b> Tan Exterior Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-74B			<b>Lab Sample ID:</b> 042418740-0207			
<b>Sample Description:</b> Tan Exterior Sealant						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-75A			<b>Lab Sample ID:</b> 042418740-0208			
<b>Sample Description:</b> Vibration Isolator - Tunnel						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	30.0%	0.0%	70% Chrysotile	
<b>Client Sample ID:</b> RMS-D-75B			<b>Lab Sample ID:</b> 042418740-0209			
<b>Sample Description:</b> Vibration Isolator - Tunnel						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	30.0%	0.0%	70% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-76A **Lab Sample ID:** 042418740-0210

**Sample Description:** Rock Prefab Facia - 1

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-76B **Lab Sample ID:** 042418740-0211

**Sample Description:** Rock Prefab Facia - 1

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-77A- Facia **Lab Sample ID:** 042418740-0212

**Sample Description:** Rock Prefab Facia - 2

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Yellow/Beige	2.0%	98.0%	None Detected	

**Client Sample ID:** RMS-D-77A- Transite **Lab Sample ID:** 042418740-0212A

**Sample Description:** Transite

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	80.0%	20% Chrysotile	

**Client Sample ID:** RMS-D-77B- Facia **Lab Sample ID:** 042418740-0213

**Sample Description:** Rock Prefab Facia - 2

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow/Beige	2.0%	98.0%	None Detected	

**Client Sample ID:** RMS-D-77B- Transite/ Adhesive **Lab Sample ID:** 042418740-0213A

**Sample Description:** Transite

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/Tan	0.0%	80.0%	20% Chrysotile	Inseparable materials.

**Client Sample ID:** RMS-D-77B- Caulk **Lab Sample ID:** 042418740-0213B

**Sample Description:** Rock Prefab Facia - 2

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-78A- Concrete **Lab Sample ID:** 042418740-0214

**Sample Description:** Transite Piping - below Slab

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-78A- Transite **Lab Sample ID:** 042418740-0214A

**Sample Description:** Transite Piping - below Slab

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	70.0%	20% Chrysotile	
	09/12/2024				10% Crocidolite	

**Client Sample ID:** RMS-D-78B

**Lab Sample ID:** 042418740-0215

**Sample Description:** Transite Piping - below Slab

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	70.0%	20% Chrysotile	
	09/12/2024				10% Crocidolite	

**Client Sample ID:** RMS-D-78C- Concrete

**Lab Sample ID:** 042418740-0216

**Sample Description:** Transite Piping - below Slab

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-78C- Transite

**Lab Sample ID:** 042418740-0216A

**Sample Description:** Transite Piping - below Slab

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	0.0%	70.0%	20% Chrysotile	
	09/16/2024				10% Crocidolite	

**Client Sample ID:** RMS-D-79A- Drywall

**Lab Sample ID:** 042418740-0217

**Sample Description:** Double Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-79A- Glue

**Lab Sample ID:** 042418740-0217A

**Sample Description:** Glue

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-79B- Drywall

**Lab Sample ID:** 042418740-0218

**Sample Description:** Double Drywall

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-79B- Glue

**Lab Sample ID:** 042418740-0218A

**Sample Description:** Glue

TEST	Analyzed	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-79Q- Drywall				<b>Lab Sample ID:</b>	042418740-0219
<b>Sample Description:</b>	Double Drywall					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	10.0%	90.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-79Q- Glue				<b>Lab Sample ID:</b>	042418740-0219A
<b>Sample Description:</b>	Glue					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-80A				<b>Lab Sample ID:</b>	042418740-0220
<b>Sample Description:</b>	Wall Glue / Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	<1%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-80B				<b>Lab Sample ID:</b>	042418740-0221
<b>Sample Description:</b>	Wall Glue / Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray	<1%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-81A				<b>Lab Sample ID:</b>	042418740-0222
<b>Sample Description:</b>	2'x4' Small Fissure Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-81B				<b>Lab Sample ID:</b>	042418740-0223
<b>Sample Description:</b>	2'x4' Small Fissure Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-82A				<b>Lab Sample ID:</b>	042418740-0224
<b>Sample Description:</b>	Perlite Block In-Fill					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-82B				<b>Lab Sample ID:</b>	042418740-0225
<b>Sample Description:</b>	Perlite Block In-Fill					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-83A- Drywall				<b>Lab Sample ID:</b>	042418740-0226
<b>Sample Description:</b>	Textured Drywall - Black Backing					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	10.0%	90.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-83A- Texture **Lab Sample ID:** 042418740-0226A  
**Sample Description:** Textured Drywall - Black Backing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-83B **Lab Sample ID:** 042418740-0227  
**Sample Description:** Textured Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	10.0%	90.0%	None Detected	No Texture present.

**Client Sample ID:** RMS-D-83C **Lab Sample ID:** 042418740-0228  
**Sample Description:** Textured Drywall - Black Backing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	10.0%	90.0%	None Detected	No Texture present.

**Client Sample ID:** RMS-D-84A **Lab Sample ID:** 042418740-0229  
**Sample Description:** Black Wood Base Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Black	0.0%	95.0%	5% Chrysotile	

**Client Sample ID:** RMS-D-84B **Lab Sample ID:** 042418740-0230  
**Sample Description:** Black Wood Base Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	95.0%	5% Chrysotile	

**Client Sample ID:** RMS-D-85A- VCT **Lab Sample ID:** 042418740-0231  
**Sample Description:** Black 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White/Black	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-85A- Adhesive **Lab Sample ID:** 042418740-0231A  
**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Tan	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-85B- VCT **Lab Sample ID:** 042418740-0232  
**Sample Description:** Black 12x12 VCT

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Black	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: RMS-D-85B- Adhesive/ Leveler

Lab Sample ID: 042418740-0232A

Sample Description: Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Tan	0.0%	100.0%	None Detected	Inseparable materials.

Client Sample ID: RMS-D-86A- Paint/ Coating

Lab Sample ID: 042418740-0233

Sample Description: Painted CMU

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White/Beige	0.0%	100.0%	None Detected	Inseparable materials.

Client Sample ID: RMS-D-86A- CMU

Lab Sample ID: 042418740-0233A

Sample Description: Painted CMU

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-86B- Paint/ Coating

Lab Sample ID: 042418740-0234

Sample Description: Painted CMU

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	White/Beige	0.0%	100.0%	None Detected	Inseparable materials.

Client Sample ID: RMS-D-86B- CMU

Lab Sample ID: 042418740-0234A

Sample Description: Painted CMU

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-86C- Paint/ Coating

Lab Sample ID: 042418740-0235

Sample Description: Painted CMU

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White/Beige	0.0%	100.0%	None Detected	Materials are inseparable.

Client Sample ID: RMS-D-86C- CMU

Lab Sample ID: 042418740-0235A

Sample Description: Painted CMU

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-87A- Ceramic Cove

Lab Sample ID: 042418740-0236

Sample Description: Ceramic Cove

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown	0.0%	100.0%	None Detected	

Client Sample ID: RMS-D-87A- Mortar

Lab Sample ID: 042418740-0236A

Sample Description: Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-87B- Ceramic Cove **Lab Sample ID:** 042418740-0237  
**Sample Description:** Ceramic Cove

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-87B- Grout **Lab Sample ID:** 042418740-0237A  
**Sample Description:** Grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-87B- Mortar **Lab Sample ID:** 042418740-0237B  
**Sample Description:** Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-88A **Lab Sample ID:** 042418740-0238  
**Sample Description:** Interior Window Glazing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Gray/Beige	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-88B **Lab Sample ID:** 042418740-0239  
**Sample Description:** Interior Window Glazing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Gray/Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Gray/Beige	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-88Q **Lab Sample ID:** 042418740-0240  
**Sample Description:** Interior Window Glazing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM PtCt Grav. Red.	09/26/2024	Gray/Beige	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-89A **Lab Sample ID:** 042418740-0241  
**Sample Description:** Beam & Drain Fireproofing - Gym

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	75.0%	5.0%	20% Chrysotile	

**Client Sample ID:** RMS-D-89B **Lab Sample ID:** 042418740-0242  
**Sample Description:** Beam & Drain Fireproofing - Gym

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Various	75.0%	5.0%	20% Chrysotile	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-89C		<b>Lab Sample ID:</b> 042418740-0243				
<b>Sample Description:</b> Beam & Drain Fireproofing - Gym						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	75.0%	5.0%	20% Chrysotile	
<b>Client Sample ID:</b> RMS-D-90A- Drywall		<b>Lab Sample ID:</b> 042418740-0244				
<b>Sample Description:</b> Textured Drywall Ceiling - Aud						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	No Texture present.
<b>Client Sample ID:</b> RMS-D-90B- Texture		<b>Lab Sample ID:</b> 042418740-0245				
<b>Sample Description:</b> Textured Drywall Ceiling - Aud						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.50%	0.50% Chrysotile	
<b>Client Sample ID:</b> RMS-D-90B- Drywall		<b>Lab Sample ID:</b> 042418740-0245A				
<b>Sample Description:</b> Textured Drywall Ceiling - Aud						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-90C- Texture		<b>Lab Sample ID:</b> 042418740-0246				
<b>Sample Description:</b> Textured Drywall Ceiling - Aud						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.75%	0.25% Chrysotile	
<b>Client Sample ID:</b> RMS-D-90C- Drywall		<b>Lab Sample ID:</b> 042418740-0246A				
<b>Sample Description:</b> Textured Drywall Ceiling - Aud						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-91A- Texture/ Joint Compound		<b>Lab Sample ID:</b> 042418740-0247				
<b>Sample Description:</b> Textured Drywall - Skylights						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.75%	0.25% Chrysotile	
<b>Client Sample ID:</b> RMS-D-91A- Tape		<b>Lab Sample ID:</b> 042418740-0247A				
<b>Sample Description:</b> Tape						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	99.0%	1.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-91A- Drywall **Lab Sample ID:** 042418740-0247B  
**Sample Description:** Textured Drywall - Skylights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-91B- Texture **Lab Sample ID:** 042418740-0248  
**Sample Description:** Textured Drywall - Skylights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Beige	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-91B- Drywall **Lab Sample ID:** 042418740-0248A  
**Sample Description:** Textured Drywall - Skylights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/12/2024	Brown/White	12.0%	88.0%	None Detected	

**Client Sample ID:** RMS-D-91C- Drywall **Lab Sample ID:** 042418740-0249  
**Sample Description:** Textured Drywall - Skylights

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown/White	12.0%	88.0%	None Detected	No Texture present.

**Client Sample ID:** RMS-D-92A- Ceiling Tile **Lab Sample ID:** 042418740-0250  
**Sample Description:** 12"x12" Ceiling Tile - Aud

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	

**Client Sample ID:** RMS-D-92A- Mastic **Lab Sample ID:** 042418740-0250A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-92A- Joint Compound **Lab Sample ID:** 042418740-0250B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	98.0%	2% Chrysotile	
400 PLM Pt Ct	09/26/2024	Beige	0.00%	99.25%	0.75% Chrysotile	

**Client Sample ID:** RMS-D-92B- Ceiling Tile **Lab Sample ID:** 042418740-0251  
**Sample Description:** 12"x12" Ceiling Tile - Aud

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray/White	80.0%	20.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-92B- Mastic **Lab Sample ID:** 042418740-0251A  
**Sample Description:** Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-92B- Joint Compound **Lab Sample ID:** 042418740-0251B  
**Sample Description:** Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	White	0.0%	98.0%	2% Chrysotile	
400 PLM Pt Ct	09/26/2024	White	0.00%	99.25%	0.75% Chrysotile	

**Client Sample ID:** RMS-D-94A **Lab Sample ID:** 042418740-0252  
**Sample Description:** Air Handler Door Mat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan/Yellow	85.0%	15.0%	None Detected	

**Client Sample ID:** RMS-D-94B **Lab Sample ID:** 042418740-0253  
**Sample Description:** Air Handler Door Mat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan/Yellow	85.0%	15.0%	None Detected	

**Client Sample ID:** RMS-D-94C **Lab Sample ID:** 042418740-0254  
**Sample Description:** Air Handler Door Mat

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Tan/Yellow	85.0%	15.0%	None Detected	

**Client Sample ID:** RMS-D-95A **Lab Sample ID:** 042418740-0255  
**Sample Description:** Vibration Isolator - Pent H.

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	40.0%	10.0%	50% Chrysotile	

**Client Sample ID:** RMS-D-95B **Lab Sample ID:** 042418740-0256  
**Sample Description:** Vibration Isolator - Pent H.

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray/White	40.0%	10.0%	50% Chrysotile	

**Client Sample ID:** RMS-D-96Q **Lab Sample ID:** 042418740-0257  
**Sample Description:** Light Fixture Backing Paper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Silver	30.0%	30.0%	40% Chrysotile	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-96A **Lab Sample ID:** 042418740-0258

**Sample Description:** Light Fixture Backing Paper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Silver	30.0%	30.0%	40% Chrysotile	

**Client Sample ID:** RMS-D-96B **Lab Sample ID:** 042418740-0259

**Sample Description:** Light Fixture Backing Paper

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Gray/Silver	30.0%	30.0%	40% Chrysotile	

**Client Sample ID:** RMS-D-97A **Lab Sample ID:** 042418740-0260

**Sample Description:** Tunnel Doors - Gasket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-97B **Lab Sample ID:** 042418740-0261

**Sample Description:** Tunnel Doors - Gasket

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Brown/Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-98A **Lab Sample ID:** 042418740-0262

**Sample Description:** Drywall Add. Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-98B **Lab Sample ID:** 042418740-0263

**Sample Description:** Drywall Add. Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/14/2024	Tan	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-99A **Lab Sample ID:** 042418740-0264

**Sample Description:** Tan Sink Coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-99B **Lab Sample ID:** 042418740-0265

**Sample Description:** Tan Sink Coating

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	10.0%	90.0%	None Detected	

**Client Sample ID:** RMS-D-100A **Lab Sample ID:** 042418740-0266

**Sample Description:** Ext. Stucco Soffits

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	<1%	100.0%	None Detected	



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-100B			<b>Lab Sample ID:</b> 042418740-0267			
<b>Sample Description:</b> Ext. Stucco Soffits						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/Beige	<1%	100.0%	None Detected	Stuccos are inseparable.
<b>Client Sample ID:</b> RMS-D-100C			<b>Lab Sample ID:</b> 042418740-0268			
<b>Sample Description:</b> Ext. Stucco Soffits						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	<1%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-100D			<b>Lab Sample ID:</b> 042418740-0269			
<b>Sample Description:</b> Ext. Stucco Soffits						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	<1%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-100E			<b>Lab Sample ID:</b> 042418740-0270			
<b>Sample Description:</b> Ext. Stucco Soffits						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	<1%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-101A- Plaster			<b>Lab Sample ID:</b> 042418740-0271			
<b>Sample Description:</b> Whitie Rough Coat Plaster						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-101A- Rough Coat			<b>Lab Sample ID:</b> 042418740-0271A			
<b>Sample Description:</b> Whitie Rough Coat Plaster						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-101B- Plaster			<b>Lab Sample ID:</b> 042418740-0272			
<b>Sample Description:</b> Whitie Rough Coat Plaster						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-101B- Rough Coat			<b>Lab Sample ID:</b> 042418740-0272A			
<b>Sample Description:</b> Whitie Rough Coat Plaster						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-101C- Plaster			<b>Lab Sample ID:</b> 042418740-0273			
<b>Sample Description:</b> Whitie Rough Coat Plaster						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-101C- Rough Coat				<b>Lab Sample ID:</b>	042418740-0273A
<b>Sample Description:</b>	Whitie Rough Coat Plaster					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024				Insufficient Material	
<b>Client Sample ID:</b>	RMS-D-102A- Plaster/ Texture				<b>Lab Sample ID:</b>	042418740-0274
<b>Sample Description:</b>	Hand Textured Drywall Ceiling					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	Inseparable materials.
<b>Client Sample ID:</b>	RMS-D-102A- Drywall				<b>Lab Sample ID:</b>	042418740-0274A
<b>Sample Description:</b>	Hand Textured Drywall Ceiling					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-102B- Plaster/ Texture				<b>Lab Sample ID:</b>	042418740-0275
<b>Sample Description:</b>	Hand Textured Drywall Ceiling					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	Inseparable materials.
<b>Client Sample ID:</b>	RMS-D-102B- Drywall				<b>Lab Sample ID:</b>	042418740-0275A
<b>Sample Description:</b>	Hand Textured Drywall Ceiling					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-102C- Plaster/ Texture				<b>Lab Sample ID:</b>	042418740-0276
<b>Sample Description:</b>	Hand Textured Drywall Ceiling					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	Inseparable materials.
<b>Client Sample ID:</b>	RMS-D-102C- Drywall				<b>Lab Sample ID:</b>	042418740-0276A
<b>Sample Description:</b>	Hand Textured Drywall Ceiling					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-103A				<b>Lab Sample ID:</b>	042418740-0277
<b>Sample Description:</b>	Aux Gym Floor					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/13/2024	Tan	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-103B				<b>Lab Sample ID:</b>	042418740-0278
<b>Sample Description:</b>	Aux Gym Floor					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
	Date		Fibrous	Non-Fibrous		
PLM	09/16/2024	Tan	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-104A		<b>Lab Sample ID:</b> 042418740-0279				
<b>Sample Description:</b> 2'x2' Ceiling Tile - RM16A Conf.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-104B		<b>Lab Sample ID:</b> 042418740-0280				
<b>Sample Description:</b> 2'x2' Ceiling Tile - RM16A Conf.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-104Q		<b>Lab Sample ID:</b> 042418740-0281				
<b>Sample Description:</b> 2'x2' Ceiling Tile - RM16A Conf.						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-105A- Carpet		<b>Lab Sample ID:</b> 042418740-0282				
<b>Sample Description:</b> Carpet - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/Beige	95.0%	5.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-105A- Adhesive		<b>Lab Sample ID:</b> 042418740-0282A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-105B- Carpet		<b>Lab Sample ID:</b> 042418740-0283				
<b>Sample Description:</b> Carpet - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/Beige	95.0%	5.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-105B- Adhesive		<b>Lab Sample ID:</b> 042418740-0283A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-106A- Wall Covering		<b>Lab Sample ID:</b> 042418740-0284				
<b>Sample Description:</b> Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-106A- Adhesive		<b>Lab Sample ID:</b> 042418740-0284A				
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	None Detected	





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-106A- Drywall					<b>Lab Sample ID:</b>	042418740-0284B
<b>Sample Description:</b>	Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Brown/White	10.0%	90.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106B- Wall Covering					<b>Lab Sample ID:</b>	042418740-0285
<b>Sample Description:</b>	Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Various	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106B- Adhesive					<b>Lab Sample ID:</b>	042418740-0285A
<b>Sample Description:</b>	Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Beige	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106B- Drywall					<b>Lab Sample ID:</b>	042418740-0285B
<b>Sample Description:</b>	Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Brown/White	10.0%	90.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106C- Wall Covering					<b>Lab Sample ID:</b>	042418740-0286
<b>Sample Description:</b>	Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Various	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106C- Adhesive					<b>Lab Sample ID:</b>	042418740-0286A
<b>Sample Description:</b>	Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Beige	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106C- Drywall					<b>Lab Sample ID:</b>	042418740-0286B
<b>Sample Description:</b>	Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/13/2024	Brown/White	10.0%	90.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106D- Wall Covering					<b>Lab Sample ID:</b>	042418740-0287
<b>Sample Description:</b>	Prefab Drywall Panels - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/16/2024	Various	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-106D- Adhesive					<b>Lab Sample ID:</b>	042418740-0287A
<b>Sample Description:</b>	Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
	Date		Fibrous	Non-Fibrous			
PLM	09/16/2024	Beige	0.0%	100.0%	None Detected		





# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-106D- Drywall				<b>Lab Sample ID:</b>	042418740-0287B
<b>Sample Description:</b>	Prefab Drywall Panels - Mod					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	10.0%	90.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-106E- Wall Covering				<b>Lab Sample ID:</b>	042418740-0288
<b>Sample Description:</b>	Prefab Drywall Panels - Mod					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Various	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-106E- Adhesive				<b>Lab Sample ID:</b>	042418740-0288A
<b>Sample Description:</b>	Adhesive					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-106E- Drywall				<b>Lab Sample ID:</b>	042418740-0288B
<b>Sample Description:</b>	Prefab Drywall Panels - Mod					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	10.0%	90.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-107A				<b>Lab Sample ID:</b>	042418740-0289
<b>Sample Description:</b>	2'x4' Mod - Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-107B				<b>Lab Sample ID:</b>	042418740-0290
<b>Sample Description:</b>	2'x4' Mod - Ceiling Tile					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Gray/White	80.0%	20.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-108A- Shingle				<b>Lab Sample ID:</b>	042418740-0291
<b>Sample Description:</b>	Asphalt Shingle - Mod					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Various	15.0%	85.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-108A- Shingle 2				<b>Lab Sample ID:</b>	042418740-0291A
<b>Sample Description:</b>	Asphalt Shingle - Mod					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	20.0%	80.0%	None Detected	
<b>Client Sample ID:</b>	RMS-D-108A- Backing				<b>Lab Sample ID:</b>	042418740-0291B
<b>Sample Description:</b>	Backing					
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	80.0%	20.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b>	RMS-D-108B- Shingle					<b>Lab Sample ID:</b>	042418740-0292
<b>Sample Description:</b>	Asphalt Shingle - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/16/2024	Various	15.0%	85.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-108B- Shingle 2					<b>Lab Sample ID:</b>	042418740-0292A
<b>Sample Description:</b>	Backing						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/16/2024	Black	20.0%	80.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-108B- Backing					<b>Lab Sample ID:</b>	042418740-0292B
<b>Sample Description:</b>	Asphalt Shingle - Mod						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/16/2024	Black	80.0%	20.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-109A					<b>Lab Sample ID:</b>	042418740-0293
<b>Sample Description:</b>	Plastic Roof Cap Coating - RMS						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/13/2024	Silver	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-109B					<b>Lab Sample ID:</b>	042418740-0294
<b>Sample Description:</b>	Plastic Roof Cap Coating - RMS						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/16/2024	Silver	5.0%	95.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-110A- Cove Base/ Adhesive					<b>Lab Sample ID:</b>	042418740-0295
<b>Sample Description:</b>	4" Thick Brown Cove Base						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/13/2024	Various	0.0%	100.0%	None Detected	Inseparable materials.	
<b>Client Sample ID:</b>	RMS-D-110B- Cove Base/ Adhesive					<b>Lab Sample ID:</b>	042418740-0296
<b>Sample Description:</b>	4" Thick Brown Cove Base						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/16/2024	Gray/Yellow	0.0%	100.0%	None Detected	Inseparable materials.	
<b>Client Sample ID:</b>	RMS-D-111A- Cove Base					<b>Lab Sample ID:</b>	042418740-0297
<b>Sample Description:</b>	4" Brown Cove Base - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected		
<b>Client Sample ID:</b>	RMS-D-111A- Adhesive					<b>Lab Sample ID:</b>	042418740-0297A
<b>Sample Description:</b>	Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment	
			Fibrous	Non-Fibrous			
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected		



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-111B- Cove Base			<b>Lab Sample ID:</b> 042418740-0298			
<b>Sample Description:</b> 4" Brown Cove Base - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-111B- Adhesive			<b>Lab Sample ID:</b> 042418740-0298A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112Q- Cove Base			<b>Lab Sample ID:</b> 042418740-0299			
<b>Sample Description:</b> 4" Black Cove Base - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112Q- Adhesive			<b>Lab Sample ID:</b> 042418740-0299A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112Q- Adhesive 2			<b>Lab Sample ID:</b> 042418740-0299B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112A- Cove Base			<b>Lab Sample ID:</b> 042418740-0300			
<b>Sample Description:</b> 4" Black Cove Base - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Black	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112A- Adhesive			<b>Lab Sample ID:</b> 042418740-0300A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112A- Adhesive 2			<b>Lab Sample ID:</b> 042418740-0300B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112B- Cove Base			<b>Lab Sample ID:</b> 042418740-0301			
<b>Sample Description:</b> 4" Black Cove Base - 2						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Black	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

<b>Client Sample ID:</b> RMS-D-112B- Adhesive			<b>Lab Sample ID:</b> 042418740-0301A			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-112B- Adhesive 2			<b>Lab Sample ID:</b> 042418740-0301B			
<b>Sample Description:</b> Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-113A			<b>Lab Sample ID:</b> 042418740-0302			
<b>Sample Description:</b> Foam Insulation Block In-Fill						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-113B			<b>Lab Sample ID:</b> 042418740-0303			
<b>Sample Description:</b> Foam Insulation Block In-Fill						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-114A			<b>Lab Sample ID:</b> 042418740-0304			
<b>Sample Description:</b> Vinyl Drywall Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-114B			<b>Lab Sample ID:</b> 042418740-0305			
<b>Sample Description:</b> Vinyl Drywall Ceiling Tile						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown/White	12.0%	88.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-115A- Cove Base			<b>Lab Sample ID:</b> 042418740-0306			
<b>Sample Description:</b> Cove Base						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Brown	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-115A- Adhesive			<b>Lab Sample ID:</b> 042418740-0306A			
<b>Sample Description:</b> White Adhesive						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Beige	0.0%	100.0%	None Detected	
<b>Client Sample ID:</b> RMS-D-115B- Cove Base			<b>Lab Sample ID:</b> 042418740-0307			
<b>Sample Description:</b> Cove Base						
TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Brown	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-115B- Adhesive **Lab Sample ID:** 042418740-0307A

**Sample Description:** White Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Beige	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-116A- FRP **Lab Sample ID:** 042418740-0308

**Sample Description:** FRP

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	White	30.0%	70.0%	None Detected	

**Client Sample ID:** RMS-D-116A- Adhesive **Lab Sample ID:** 042418740-0308A

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/13/2024	Yellow	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-116B- FRP **Lab Sample ID:** 042418740-0309

**Sample Description:** FRP

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	White	30.0%	70.0%	None Detected	

**Client Sample ID:** RMS-D-116B- Adhesive **Lab Sample ID:** 042418740-0309A

**Sample Description:** Adhesive

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	09/16/2024	Yellow	0.0%	100.0%	None Detected	



## EMSL Analytical, Inc.

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

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

**Attn:** Robert Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

Phone: (719) 545-0375  
Fax: (719) 542-2807  
Collected: 8/23/2024  
Received: 9/09/2024  
Analyzed: 9/26/2024

**Proj:** 24-5808 / Roncalli - 1

The samples in this report were submitted for asbestos bulk analysis. The reference number for these samples is the Order ID above. Please use this reference number when calling about these samples.

Sample Receipt Date: 09/09/2024

Sample Receipt Time: 8:50 am

Analysis Completed Date: 09/26/2024

Analysis Completed Time: 4:47 pm

### Analyst(s):

Cara Blount PLM (59)  
400 PLM Pt Ct (23)

Emma Campbell PLM (117)

Erica Furphy PLM (35)  
400 PLM PtCt Grav. Red (10)  
400 PLM Pt Ct (2)

Jose Madril PLM (144)  
400 PLM PtCt Grav. Red (3)  
400 PLM Pt Ct (4)

Nathan Stancik PLM (57)

Nezzarae Choate PLM (124)  
400 PLM PtCt Grav. Red (5)  
400 PLM Pt Ct (11)

### Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This is a summary report; official reports are available on LabConnect or upon request and relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937, CO AL-19027, CA 2761, TX 300484, HI L-14-004, LA 05113



## EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order ID: 042418740  
Customer ID: ALLP62  
Customer PO:  
Project ID:

**Attn:** Robert Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

Phone: (719) 545-0375  
Fax: (719) 542-2807  
Collected: 8/23/2024  
Received: 9/09/2024  
Analyzed: 9/26/2024

**Proj:** 24-5808 / Roncalli - 1



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 042418740

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Robert Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received:** 09/09/2024 8:50 AM  
**Analysis Date:** 09/17/2024  
**Collected:** 08/23/2024

**Project:** 24-5808 / Roncalli - 1

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy and Milling Prep. Quantitation using 400 Point Count Procedure.

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RMS-D-62A 042418740-0180	Vermiculite	Tan Fibrous Homogeneous HA: 62	2% Synthetic	98.0% Non-fibrous (Other)	None Detected
RMS-D-62B 042418740-0181	Vermiculite	Tan Fibrous Homogeneous HA: 62	2% Synthetic	98.0% Non-fibrous (Other)	None Detected
RMS-D-62C 042418740-0182	Vermiculite	Tan Fibrous Homogeneous HA: 62	2% Synthetic	98.0% Non-fibrous (Other)	None Detected

Analyst(s)

Sean Dyson (3)

Samantha Rundstrom, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, PA ID# 68-00367

Initial report from: 09/17/2024 10:17:23





# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 042419676

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 09/21/2024 10:55 AM  
**Analysis Date:** 09/23/2024  
**Collected Date:** 09/20/2024

**Project:** 24-5808-IM-Roncalli (3)

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RMS-D-IM5B-Drywa II 042419676-0001	Light Sand Texture Drywall	Brown/Gray Fibrous Homogeneous	15% Cellulose 3% Glass	82.0% Non-fibrous (Other)	None Detected
HA: 5					
RMS-D-IM5B-Textur e 042419676-0001A	Light Sand Texture Drywall	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
HA: 5					
RMS-D-IM18B-Tile 042419676-0002	1x1 Mosaic Tile	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
HA: 18					
RMS-D-IM18B-Morta r 042419676-0002A	Mortar	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
HA: 18					
RMS-D-IM18B-Tile 2 042419676-0002B	Mortar	Green Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
HA: 18					
RMS-D-IM101C-Plas ter Rough 042419676-0003	Rough Coat Plaster - White	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
HA: 101					
RMS-D-IM101C-Plas ter Skim 042419676-0003A	Rough Coat Plaster - White	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
HA: 101					

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 09/23/2024 15:33:55



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 042419676

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 250-0036

**Fax:** (719) 542-2807

**Received Date:** 09/21/2024 10:55 AM

**Analysis Date:** 09/23/2024

**Collected Date:** 09/20/2024

**Project:** 24-5808-IM-Roncalli (3)

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RMS-D-IM117A 042419676-0004	Gym Floor - Tar Back	Brown/Black Fibrous Homogeneous	15% Cellulose	78.0% Non-fibrous (Other)	7% Chrysotile
HA: 117					
RMS-D-IM117B 042419676-0005	Gym Floor - Tar Back	Brown/Black Fibrous Homogeneous	30% Cellulose	65.0% Non-fibrous (Other)	5% Chrysotile
HA: 117					

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 09/23/2024 15:33:55



## EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 042419676

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 250-0036  
**Fax:** (719) 542-2807  
**Received Date:** 09/21/2024 10:55 AM  
**Analysis Date:** 09/23/2024  
**Collected Date:** 09/20/2024

**Project:** 24-5808-IM-Roncalli (3)

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

### Report Comments:

Sample Receipt Date: 09/21/2024

Sample Receipt Time: 10:55 AM

Analysis Completed Date: 09/23/2024

Analysis Completed Time: 1:35 PM

### **Analyst(s):**

Brett Polumbo PLM (8)

Dave Poitras PLM (1)

### **Samples Reviewed and approved by:**

Samantha Rundstrom, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 09/23/2024 15:33:55



# EMSL Analytical, Inc.

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

EMSL Order ID: 042419676  
Customer ID: ALLP62  
Customer PO:  
Project ID:

**Attn:** Logan Greenfield  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Collected:** 9/20/2024  
**Received:** 9/21/2024  
**Analyzed:** 9/24/2024

**Proj:** 24-5808-IM-Roncalli (3)

## Summary Test Report for Asbestos Analysis of Bulk Material

**Client Sample ID:** RMS-D-IM5B- Drywall **Lab Sample ID:** 042419676-0001

**Sample Description:** Light Sand Texture Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Brown/Gray	18.0%	82.0%	None Detected	

**Client Sample ID:** RMS-D-IM5B- Texture

**Lab Sample ID:** 042419676-0001A

**Sample Description:** Light Sand Texture Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Tan	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	9/24/2024	Tan	0.00%	99.75%	0.25% Chrysotile	

**Client Sample ID:** RMS-D-IM18B-Tile

**Lab Sample ID:** 042419676-0002

**Sample Description:** 1x1 Mosaic Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	White	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-IM18B- Mortar

**Lab Sample ID:** 042419676-0002A

**Sample Description:** Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Gray	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-IM18B-Tile 2

**Lab Sample ID:** 042419676-0002B

**Sample Description:** Mortar

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Green	0.0%	100.0%	None Detected	

**Client Sample ID:** RMS-D-IM101C- Plaster Rough

**Lab Sample ID:** 042419676-0003

**Sample Description:** Rough Coat Plaster - White

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Gray	0.0%	100.0%	<1% Chrysotile	
400 PLM Pt Ct	9/24/2024	Gray	0.0%	100.0%	<0.25% Chrysotile	

**Client Sample ID:** RMS-D-IM101C- Plaster Skim

**Lab Sample ID:** 042419676-0003A

**Sample Description:** Rough Coat Plaster - White

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	White	0.0%	100.0%	None Detected	



# EMSL Analytical, Inc.

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

EMSL Order ID: 042419676  
Customer ID: ALLP62  
Customer PO:  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: RMS-D-IM117A

Lab Sample ID: 042419676-0004

Sample Description: Gym Floor/Tar Back

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Brown/Black	15.0%	78.0%	7% Chrysotile	

Client Sample ID: RMS-D-IM117B

Lab Sample ID: 042419676-0005

Sample Description: Gym Floor/Tar Back

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	9/23/2024	Brown/Black	30.0%	65.0%	5% Chrysotile	

### Analyst(s):

Brett Polumbo PLM (8)  
Brett Teixeira 400 PLM Pt Ct (2)  
Dave Poitras PLM (1)

### Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This is a summary report; official reports are available on LabConnect or upon request and relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Report amended: 09/24/2024 11:35:00 Replaces initial report from: 09/23/2024 15:33:57 Reason Code: Client-Additional Analysis



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-1A-Tar 222404533-0001	Lower deck	Black Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
Ron-R-1A-Insulation 222404533-0001A	Lower deck	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-1B-Tar 222404533-0002	Lower deck	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-1B-Insulation 222404533-0002A	Lower deck	Brown Fibrous Homogeneous	75% Cellulose	25.0% Non-fibrous (Other)	None Detected
Ron-R-2A-Sealant 222404533-0003	Parapet - skylight	White/Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-2A-Tar Paper 222404533-0003A	Parapet - skylight	Brown/Black Fibrous Homogeneous	15% Cellulose 25% Glass	60.0% Non-fibrous (Other)	None Detected
Ron-R-2A-Tar 1 222404533-0003B	Parapet - skylight	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-2A-Roofing 222404533-0003C	Parapet - skylight	Black Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95.0% Non-fibrous (Other)	None Detected
Ron-R-2A-Tar 2 222404533-0003D	Parapet - skylight	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-2A-Insulation 222404533-0003E	Parapet - skylight	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-2B-Tar Paper 1 222404533-0004	Parapet - wall	Black Non-Fibrous Homogeneous	10% Cellulose 25% Glass	65.0% Non-fibrous (Other)	None Detected
Ron-R-2B-Roofing 1 222404533-0004A	Parapet - wall	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-2B-Tar Paper 2 222404533-0004B	Parapet - wall	Black Non-Fibrous Homogeneous	1% Cellulose 15% Glass	84.0% Non-fibrous (Other)	None Detected
Ron-R-2B-Roofing 2 222404533-0004C	Parapet - wall	Black Non-Fibrous Homogeneous	25% Cellulose	75.0% Non-fibrous (Other)	None Detected
Ron-R-2B-Insulation 222404533-0004D	Parapet - wall	Brown Non-Fibrous Homogeneous	75% Cellulose	25.0% Non-fibrous (Other)	None Detected
Ron-R-3A-Tar 222404533-0005	New build - deck	Black Non-Fibrous Homogeneous		95.0% Non-fibrous (Other)	5% Chrysotile
Ron-R-3A-Felt 222404533-0005A	New build - deck	Gray/Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-3A-Tar Paper 222404533-0005B	New build - deck	Brown/Black Fibrous Homogeneous	60% Cellulose	30.0% Non-fibrous (Other)	10% Chrysotile

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02





# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-3A-Roofing 222404533-0005C	New build - deck	Black Non-Fibrous Homogeneous	5% Cellulose 10% Glass	85.0% Non-fibrous (Other)	None Detected
Ron-R-3A-Insulation 222404533-0005D	New build - deck	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-3A-Terrazzo 222404533-0005E	New build - deck	Gray/White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-3B-Tar 222404533-0006	New build - deck	Black Non-Fibrous Homogeneous		95.0% Non-fibrous (Other)	5% Chrysotile
Ron-R-3B-Insulation 222404533-0006A	New build - deck	Brown Non-Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-4A-Roofing 222404533-0007	Mech RM - deck	Black Non-Fibrous Homogeneous	20% Cellulose 5% Glass	75.0% Non-fibrous (Other)	None Detected
three indistinguishable chunks of roofing tar - analyzed as one					
Ron-R-4A-Insulation 222404533-0007A	Mech RM - deck	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-4B-Tar Paper 222404533-0008	Kitchen - deck	Black Fibrous Homogeneous	10% Cellulose 25% Glass	65.0% Non-fibrous (Other)	None Detected
Ron-R-4B-Tar 222404533-0008A	Kitchen - deck	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02





# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-4B-Roofing 222404533-0008B	Kitchen - deck	Black Non-Fibrous Homogeneous	25% Cellulose	75.0% Non-fibrous (Other)	None Detected
Ron-R-4B-Insulation 222404533-0008C	Kitchen - deck	Brown Non-Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-5A-Roofing 1 222404533-0009	Café - deck	Black Non-Fibrous Homogeneous	20% Cellulose	80.0% Non-fibrous (Other)	None Detected
Ron-R-5A-Roofing 2 222404533-0009A	Café - deck	Black Non-Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected
Ron-R-5A-Insulation 222404533-0009B	Café - deck	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-5B-Tar Paper 222404533-0010	Old gym - deck	Black Non-Fibrous Homogeneous	10% Cellulose 25% Glass	65.0% Non-fibrous (Other)	None Detected
Ron-R-5B-Roofing 222404533-0010A	Old gym - deck	Black Non-Fibrous Homogeneous	25% Cellulose	75.0% Non-fibrous (Other)	None Detected
Ron-R-5B-Insulation 222404533-0010B	Old gym - deck	Brown Non-Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-6A-Roofing 1 222404533-0011	Parapet - skylight	Black Non-Fibrous Homogeneous	10% Cellulose 3% Glass	80.0% Non-fibrous (Other)	7% Chrysotile

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-6A-Roofing 2 222404533-0011A	Parapet - skylight	Black Non-Fibrous Homogeneous	10% Glass	90.0% Non-fibrous (Other)	None Detected
Ron-R-6A-Insulation 222404533-0011B	Parapet - skylight	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-6A-Roofing 3 222404533-0011C	Parapet - skylight	Black Non-Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected
Ron-R-6A-Terrazzo 222404533-0011D	Parapet - skylight	Gray/White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-6B-Tar Paper 222404533-0012	Parapet - wall	Black Non-Fibrous Homogeneous	10% Cellulose 25% Glass	60.0% Non-fibrous (Other)	5% Chrysotile
Ron-R-6B-Tar 222404533-0012A	Parapet - wall	Black Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile
Ron-R-7A-Roofing 222404533-0013	Skylight - deck	Black Non-Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected
Ron-R-7A-Insulation 222404533-0013A	Skylight - deck	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-7B-Tar Paper 222404533-0014	Skylight - deck	Black Non-Fibrous Homogeneous	10% Cellulose 25% Glass	65.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-7B-Tar 222404533-0014A	Skylight - deck	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-7B-Roofing 222404533-0014B	Skylight - deck	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85.0% Non-fibrous (Other)	None Detected
Ron-R-7B-Insulation 222404533-0014C	Skylight - deck	Brown Non-Fibrous Homogeneous	75% Cellulose	25.0% Non-fibrous (Other)	None Detected
Ron-R-8A-Roofing 222404533-0015	New gym deck	Black Non-Fibrous Homogeneous	5% Cellulose 10% Synthetic	85.0% Non-fibrous (Other)	None Detected
Ron-R-8A-Tar 222404533-0015A	New gym deck	Black Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
Ron-R-8A-Tar Paper 222404533-0015B	New gym deck	Black Fibrous Homogeneous	25% Cellulose	75.0% Non-fibrous (Other)	None Detected
Ron-R-8A-Fiber Board 222404533-0015C	New gym deck	Tan Fibrous Homogeneous	99% Cellulose	1.0% Non-fibrous (Other)	None Detected
Ron-R-8A-Insulation 222404533-0015D	New gym deck	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
		foam insulation			
Ron-R-8B-Shingle 222404533-0016	New gym deck	Black Non-Fibrous Homogeneous	20% Glass	80.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-8B-Tar 222404533-0016A	New gym deck	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-8B-Roofing 222404533-0016B	New gym deck	Black Non-Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected
Ron-R-8B-Insulation 222404533-0016C	New gym deck	Brown Non-Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-8B-Foam 222404533-0016D	New gym deck	Yellow/Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-9A-Roofing 1 222404533-0017	Parapet wall	Black Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
Ron-R-9A-Roofing 2 222404533-0017A	Parapet wall	Black Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
Ron-R-9A-Insulation 222404533-0017B	Parapet wall	Gray Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected
Ron-R-9A-Fiber Board 222404533-0017C	Parapet wall	Tan/Black Fibrous Homogeneous	99% Glass	1.0% Non-fibrous (Other)	None Detected
Ron-R-9B-Shingle 222404533-0018	Parapet wall	Black Non-Fibrous Homogeneous	15% Glass	85.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Ron-R-9B-Tar 1 222404533-0018A	Parapet wall	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-9B-Roofing 1 222404533-0018B	Parapet wall	Black Non-Fibrous Homogeneous	20% Synthetic	80.0% Non-fibrous (Other)	None Detected
Ron-R-9B-Tar 2 222404533-0018C	Parapet wall	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
Ron-R-9B-Roofing 2 222404533-0018D	Parapet wall	Black Non-Fibrous Homogeneous	20% Cellulose 5% Synthetic	75.0% Non-fibrous (Other)	None Detected
Ron-R-9B-Insulation 222404533-0018E	Parapet wall	Brown Fibrous Homogeneous	75% Cellulose	5% Perlite 20.0% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02



# EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204

Tel/Fax: (303) 740-5700 / (303) 741-1400

<http://www.EMSL.com> / [denverlab@emsl.com](mailto:denverlab@emsl.com)

EMSL Order: 222404533

Customer ID: ALLP62

Customer PO:

Project ID:

**Attention:** Rober Sais  
All-Phase Environmental Consultants, Inc  
721 West 9th Street  
Pueblo, CO 81003

**Phone:** (719) 545-0375  
**Fax:** (719) 542-2807  
**Received Date:** 09/12/2024 10:00 AM  
**Analysis Date:** 09/18/2024  
**Collected Date:** 09/10/2024

**Project:** 24-5808-Roncolli Roof

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

## Report Comments:

Sample Receipt Date: 09/12/2024

Sample Receipt Time: 10:00 AM

Analysis Completed Date: 09/18/2024

Analysis Completed Time: 4:48 PM

## **Analyst(s):**

Paul O'Neill PLM (33)

Tracy Ma PLM (35)

## **Samples Reviewed and approved by:**

Timothy Kleehammer, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 09/18/2024 17:32:02

## **APPENDIX 5 - CHAIN OF CUSTODY FORMS**



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma StreetDenver, CO 80204  
PHONE (303) 740-5700  
EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
DENVER  
2024 SEP 11 10:55 AM

Customer Information	Customer ID:	Billing ID:	
	Company Name: All-Phase Environmental Consultants, Inc	Company Name: All-Phase Environmental Consultants, Inc	
	Contact Name: Robert Sais	Billing Contact: Brandice Eslinger	
	Street Address: 721 West 9th Street	Street Address: 721 West 9th Street	
	City, State, Zip: Pueblo CO 81003 Country: US	City, State, Zip: Pueblo CO 81003 Country: US	
	Phone: 719-545-0375	Phone: 719-240-4690	
Email(s) for Report: robert@allphaseenvironmental.com		Email(s) for Invoice: accounting@allphaseenvironmental.com	

## Project Information

Project Name/No: 24-5808 - Boncalli (1)	Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)	US State where samples collected: CO
State of Connecticut (CT) must select project location:	<input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)
Sampled By Name: Robert Sais	Sampled By Signature: [Signature]
No. of Samples in Shipment: 309	

## Turn-Around-Time (TAT)

<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 4-4.5 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 32 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
---------------------------------	-------------------------------------	---------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	----------------------------------	--	---------------------------------

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

<b>PCM Air</b>		
<input type="checkbox"/> NIOSH 7400	<input type="checkbox"/> AHERA 40 CFR, Part 763	<input type="checkbox"/> TEM - Settled Dust
<input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA	<input type="checkbox"/> NIOSH 7402	<input type="checkbox"/> Microvac - ASTM D5755
<b>PLM - Bulk (reporting limit)</b>		
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> EPA Level II	<input type="checkbox"/> Wipe - ASTM D6480
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> ISO 10312*	<input type="checkbox"/> Qualitative via Filtration Prep
<input type="checkbox"/> POINT COUNT	<b>TEM - Bulk</b>	
<input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)	<input type="checkbox"/> TEM EPA NOB	<input type="checkbox"/> Qualitative via Drop Mount Prep
POINT COUNT w/ GRAVIMETRIC	<input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY)	<b>Soil - Rock - Vermiculite (reporting limit)*</b>
<input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)	<input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%)	<input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%)
<input type="checkbox"/> NIOSH 9002 (<1%)	<b>Other Test (please specify)</b>	<input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%)
<input type="checkbox"/> NYS 198.1 (Friable - NY)		<input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%)
<input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY)		<input type="checkbox"/> TEM Qualitative via Filtration Prep
<input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep

\*Please call with your project-specific requirements.

<input type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)	Filter Pore Size (Air Samples) <input type="checkbox"/> 0.8um <input type="checkbox"/> 0.45um
--	---

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-1A	Gloss Orange Peel Drywall	HA 1	Aug 23 <sup>rd</sup> → Sept. 6, 2024
- 1B			
- 1C			
- 1D			
- 1E			
- 1F			
- 1G			
- 1H			

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: Fedex	Sample Condition Upon Receipt:
Relinquished by: [Signature]	Received by: [Signature] EMSL FX
Date/Time: 9-6-24/1:30p	Date/Time: 9/9/24 8:50
Relinquished by:	Received by:
Date/Time:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-1I	Gloss Orange Peel Drywall	HA 1	
- 2A	Textured Drywall-Patch Add.	HA 2	
- 2B	↓	↓	
- 2C	↓	↓	
- 3A	Brush Textured Drywall	HA 3	
- 3B	↓	↓	
- 3C	↓	↓	
- 4A	Smooth Textured Drywall	HA 4	
- 4B	↓	↓	
- 4C	↓	↓	
- 5A	Light Sand Textured Drywall	HA 5	
- 5Q	↓	↓	
- 5B	↓	↓	
- 5C	↓	↓	
- 6A	Rough Coat Material	HA 6	
- 6B	↓	↓	
- 6C	↓	↓	
- 7A	Heavy Gloss Texture (concrete)	HA 7	
- 7B	↓	↓	
- 7C	↓	↓	
- 8A	Smooth Textured Drywall	HA 8	
- 8B	↓	↓	
- 8C	↓	↓	
- 8D	↓	↓	
- 8E	↓	↓	

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: <i>Chalun EMSLFX</i>	Date/Time: 9/9/24 850
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - CQC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

denverlab@emsl.com

0424 18740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -9 A 9:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-8F	Smooth Textured Drywall	HA 8	
- 8G	↓	↓	
- 9A	Textured Drywall	HA 9	
- 9B	↓	↓	
- 9C	↓	↓	
- 9D	↓	↓	
- 9E	↓	↓	
- 9F	↓	↓	
- 9G	↓	↓	
- 10A	CMU Filler - white	HA 10	
- 10B	↓	↓	
- 10C	↓	↓	
- 10D	↓	↓	
- 10E	↓	↓	
- 10F	↓	↓	
- 10G	↓	↓	
- 11A	CMU Filler - Tan	HA 11	
- 11B	↓	↓	
- 11C	↓	↓	
- 11D	↓	↓	
- 11E	↓	↓	
- 12A	CMU Filler - Green	HA 12	
- 12B	↓	↓	
- 12C	↓	↓	
- 12D	↓	↓	
- 12E	↓	↓	
- 13A	CMU Filler - Blue	HA 13	
- 13B	↓	↓	
- 13C	↓	↓	
- 13D	↓	↓	
- 13E	↓	↓	
- 13F	↓	↓	
- 13G	↓	↓	
- 13H	↓	↓	
- 13I	↓	↓	
- 13J	↓	↓	
- 13K	↓	↓	
- 13L	↓	↓	
- 13M	↓	↓	
- 13N	↓	↓	
- 13O	↓	↓	
- 13P	↓	↓	
- 13Q	↓	↓	
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: <i>Chalen</i> EMSL FX	Date/Time: 9/9/24 850
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - CQC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

58





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL: denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-13B	CMU Filler - Blue	HA 13	
-13C	↓	↓	
-13D			
-13E			
-14A	Brick / Mortar	HA 14	
-14B	↓	↓	
-14C			
-14D			
-15A	9x9 VCT - Tan (Verify)	HA 15	
-15B	↓	↓	
-16A	9x9 VCT - Peach (Verify)	HA 16	
-16B	↓	↓	
-17A	12x12 VCT - Blue	HA 17	
-17B	↓	↓	
-18A	1x1 Mosaic tile/Mortar	HA 18	
-18B	↓	↓	
-19A	Light Blue 4x4 Ceramic	HA 19	
-19B	↓	↓	
-20A	Teal 4x4 Ceramic	HA 20	
-20Q	↓	↓	
-20B			
-21A	White 4x4 Ceramic	HA 21	
-21B	↓	↓	
-22A	Blue 4x4 Ceramic	HA 22	
-22B	↓	↓	

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: <i>Chloe EMSLFX</i>	Date/Time: 9/9/24 850
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - CDC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

83



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -9 A 9:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-23A	Pink 4x4 Ceramic	HA 23	
- -23B	↓	↓	
- -24A	Epoxy Flooring - Blue	HA 24	
- -24B	↓	↓	
- -25A	Epoxy Flooring - Green	HA 25	
- -25B	↓	↓	
- -26A	12x12 VCT - White/Black	HA 26	
- -26B	↓	↓	
- -27A	12x12 VCT - Tan/Brown	HA 27	
- -27B	↓	↓	
- -28A	12x12 VCT - Brown/Grey	HA 28	
- -28B	↓	↓	
- -29A	12x12 VCT - Tan/Grey	HA 29	
- -29B	↓	↓	
- -29Q	↓	↓	
- -30A	12x12 VCT - Brown (tiger)	HA 30	
- -30B	↓	↓	
- -31A	Blue Carpet / Adhesive	HA 31	
- -31B	↓	↓	
- -32A	Brown Carpet / Adhesive	HA 32	
- -32B	↓	↓	
- -33A	Purple Carpet / Adhesive	HA 33	
- -33B	↓	↓	
- -34A	Dark Brown Carpet / Adhesive	HA 34	
↓ - ↓ -34B	↓	↓	

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: <i>Chelen EMSL EX</i>	Date/Time: 9/9/24 850
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

108





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-35A	Fire proofing spray	HA 35	
- -35B	↓	↓	
- -35C			
- -35D			
- -35E			
- -36A	Ceiling Tile - 2'x2' star pattern	HA 36	
- -36B	↓	↓	
- -37A	Ceiling Tile - 2'x2' fissure	HA 37	
- -37B	↓	↓	
- -37Q			
- -38A	Ceiling Tile - 2'x2' - Textured	HA 38	
- -38B	↓	↓	
- -39A	Ceiling Tile - 2'x4' - Horiz. Fissure	HA 39	
- -39B	↓	↓	
- -40A	Ceiling Tile - 12"x12" Dots	HA 40	
- -40B	↓	↓	
- -41A	Ceiling Tile - 2'x4' - Vert. Fissure	HA 41	
- -41B	↓	↓	
- -41A	Ceiling Tile - 2'x4' - Tex Glicher	HA 41	
- -41B	↓	↓	
- -42A	Ceiling tile - 2x4 - star pattern	HA 42	
- -42B	↓	↓	
- -43A	Wall Pad Adhesive	HA 43	
- -43B	↓	↓	
↓ - ↓ -44A	Joint Compound (Drywall)	HA 44	↓

Method of Shipment:

Sample Condition Upon Receipt:

Relinquished by:

Date/Time:

Received by:

Chalen EMSLFX

Date/Time

9/9/24 850

Relinquished by:

Date/Time:

Received by:

Date/Time

Controlled Document - COC-05 Asbestos R15 4/23/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -9 A 9:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-44B	Joint Compound (Drywall)	HA 44	
-44C	↓	↓	
-44D	↓	↓	
-45A	Rough Coat Plaster (EXT)	HA 45	
-45Q	↓	↓	
-45B	↓	↓	
-45C	↓	↓	
-45D	↓	↓	
-45E	↓	↓	
-46A	Painted Brick/Mortar	HA 46	
-46B	↓	↓	
-47A	Brick/Mortar	HA 47	
-47B	↓	↓	
-48A	Expansion Joint - Black	HA 48	
-48B	↓	↓	
-49A	Window Caulk - Brown	HA 49	
-49B	↓	↓	
-50A	Wall Base - Ceramic Block	HA 50	
-50B	↓	↓	
-51A	Insulated Door Fill - powder	HA 51	
-51B	↓	↓	
-51C	↓	↓	
-52A	Insulated Door fill - Fiber	HA 52	
-52B	↓	↓	
-52C	↓	↓	
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: <i>Chelw EMSLFX</i>	Date/Time: 9/9/24 8:50
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - CQC-05 Asbestos R15 4/23/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

158





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver CO 80204

PHONE (303) 740-5700

EMAIL: denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -4 A 9:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-52Q	Insulated Door Fill - fiber	HA 52	
- 53A	Rock Decor Flooring	HA 53	
- 53B	↓	↓	
- 54A	Blue Foam Panel Adhesive (tunnel)	HA 54	
- 54B	↓	↓	
- 55A	Lab tables	HA 55	
- 55B	↓	↓	
- 56A	sink Coating	HA 56	
- 56B	↓	↓	
- 57A	Vibration Isolator - 1	HA 57	
- 57B	↓	↓	
- 58A	Vibration Isolator - 2	HA 58	
- 58B	↓	↓	
- 59A	Vibration Isolator - 3	HA 59	
- 59B	↓	↓	
- 60A	Insulation Mat on Ducting	HA 60	
- 60B	↓	↓	
- 60C	↓	↓	
- 61A	Rubber floor transition	HA 61	
- 61B	↓	↓	
- 61Q	↓	↓	
- 62A	Vermiculite	HA 62	
- 62B	↓	↓	
- 62C	↓	↓	
↓ - ↓ - 63A	Pebble Pattern Sink Lino	HA 63	↓
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: <i>Chalun EMSL FX</i>	Date/Time: 9/9/24 8:50
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

CY2418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

2024 SEP -9 A 9:55

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-63B	Pebble Pattern Sink Lino	HA 63	
-64A	Cove Base - Black 6"	HA 64	
-64B	↓	↓	
-65A	Cove Base - Brown 4" #1	HA 65	
-65B	↓	↓	
-66A	Cove Base - Light Brown 4"	HA 66	
-66B	↓	↓	
-67A	Cove Base - Black 4" #1	HA 67	
-67B	↓	↓	
-68A	Exterior Sealant - White #1	HA 68	
-68B	↓	↓	
-69A	Exterior Sealant - Dark Brown	HA 69	
-69B	↓	↓	
-70A	Exterior Sealant - White #2	HA 70	
-70B	↓	↓	
-70Q	↓	↓	
-71A	Garage Doors Sealant - Brown/White	HA 71	
-71B	↓	↓	
-72A	Man Doors Sealant - Black	HA 72	
-72B	↓	↓	
-73A	Expansion Joint - Grey	HA 73	
-73B	↓	↓	
-74A	Exterior Sealant - Tan	HA 74	
-74B	↓	↓	
↓-75A	Vibration Isolator (tunnel)	HA 75	
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time	Received by: <i>Chelan EMSL FX</i>	Date/Time: 9/9/24 850
Relinquished by:	Date/Time	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

208





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

FAX (303) 740-5700  
EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -4 A 9:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-75B	Vibration Isolator (tunnel)	HA 75	
-76A	Rock Prefab Facia #1	HA 76	
-76B	↓	↓	
-77A	Rock Prefab Facia #2 w/transite	HA 77	
-77B	↓	↓	
-78A	Transite Piping (below slab)	HA 78	
-78B	↓	↓	
-78C	↓	↓	
-79A	Double Drywall w/ Glue	HA 79	
-79B	↓	↓	
-79C	↓	↓	
-80A	Wall Glue/Adhesive	HA 80	
-80B	↓	↓	
-81A	Ceiling Tile - 2'x4' - small fissure	HA 81	
-81B	↓	↓	
-82A	Perlite - Block In-Fill	HA 82	
-82B	↓	↓	
-83A	Textured Drywall - Black Backing	HA 83	
-83B	↓	↓	
-83C	↓	↓	
-84A	Black Wood Base mastic	HA 84	
-84B	↓	↓	
-85A	12x12 VCT - Black	HA 85	
-85B	↓	↓	
-86A	Painted CMU	HA 86	
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: Chalen EMSLFX	Date/Time: 9/9/24 8:50
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

753



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -4 A 7:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-B4B	Painted CMU	HA 86	
- - B6C	↓	↓	
- - B7A	Ceramic Cove / Mortar	HA 87	
- - B7B	↓	↓	
- - B8A	Window Glazing - Interior	HA 88	
- - B8B	↓	↓	
- - B8Q	↓	↓	
- - B9A	Fireproofing - Beam & Drain (Gym)	HA 89	
- - B9B	↓	↓	
- - B9C	↓	↓	
- - 90A	Textured Drywall Ceiling - Aud	HA 90	
- - 90B	↓		
- - 90C	↓		
- - 91A	Textured Drywall - skylights	HA 91	
- - 91B	↓		
- - 91C	↓		
- - 92A	Ceiling Tile - 12"x12" - Aud	HA 92	
- - 92B	↓		
- - 93A	Air Handler Door Mat	HA 94	
- - 93B	↓		
- - 93C	↓		
- - 95A	Vibration Isolator - PentH	HA 95	
- - 95B	↓		
- - 96Q	Light Fixture Backing Paper	HA 96	
↓ - ↓ - 96A	↓	↓	
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: Chaleen EMSL FX	Date/Time: 9/9/24 8:50
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

#HA 93 Removed - Duplicant Sample

25





EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, N.J.

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -9 A 9:55

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-96B	Light Fixture Backing Paper	HA 96	
- 97A	Tunnel Doors - Gasket	HA 97	
- 97B	↓	↓	
- 98A	Drywall Add. - Adhesive	HA 98	
- 98B	↓	↓	
- 99A	Tan Sink Coating	HA 99	
- 99B	↓	↓	
- 100A	Stucco soffits (EXT)	HA 100	
- 100B	↓	↓	
- 100C	↓	↓	
- 100D	↓	↓	
- 100E	↓	↓	
- 101A	Rough Coat Plaster - White	HA 101	
- 101B	↓	↓	
- 101C	↓	↓	
- 102A	Hand Textured Drywall - Ceiling	HA 102	
- 102B	↓	↓	
- 102C	↓	↓	
- 103A	Aux Gym Floor	HA 103	
- 103B	↓	↓	
- 104A	Ceiling Tile - 2'x2' - RM14A Conf.	HA 104	
- 104B	↓	↓	
- 104C	↓	↓	
- 105A	Carpet / Adhesive - mod	HA 105	
↓ - 105B	↓		

Method of Shipment		Sample Condition Upon Receipt	
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	Date/Time	Received by	Date/Time

Controlled Document - COC-05 Asbestos R15 4/23/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

283





EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

042418740

RECEIVED  
EMSL  
CINNAMINSON, NJ

2024 SEP -9 A 9:55

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-106A	Prefab Drywall Panels-mod	HA 106	
-106B	↓	↓	
-106C			
-106D			
-106E			
-107A	Ceiling Tile - 2'x4' - mod	HA 107	
-107B	↓	↓	
-108A	Asphalt Shingles/Backing-mod	HA 108	
-108B	↓	↓	
-109A	Plastic Roof Cap Coating-RMS	HA 109	
-109B	↓	↓	
-110A	Cove Base - 4" thick brown	HA 110	
-110B		↓	
-111A	Cove Base - 4" Brown #2	HA 111	
-111B		↓	
-112Q	Cove Base - 4" Black #2	HA 112	
-112A	↓	↓	
-112B			
-113A	Foam Insulation - Block In-Fill	HA 113	
-113B	↓	↓	
-114A	Vinyl Drywall Ceiling Tile	HA 114	
-114B	↓	↓	
-115A	Cove Base w/White Adhesive	HA 115	
-115B	↓	↓	
-116A	FRP w/Adhesive	HA 116	

Method of Shipment:

Sample Condition Upon Receipt:

Relinquished by:

Date/Time:

Received by:

Chelene EMSLFX

Date/Time

9/9/24 850

Relinquished by:

Date/Time:

Received by:

Date/Time

Controlled Document - COC-05 Asbestos R15 4/23/2021



AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

305

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

1010 Yuma Street

Denver, CO 80204

PHONE (303) 740-5700

EMAIL denverlab@emsl.com

EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

042418740

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

2024 SEP -9 A 9:55

RECEIVED  
EMSL  
CINNAMINSON, N.J.

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)				
RMS-D-116B	FRP w/ Adhesive	HA 116	↓				
Method of Shipment:		Sample Condition Upon Receipt:					
Relinquished by:	Date/Time:	Received by: <i>Chalmer EMSLFX</i>	Date/Time: 9/9/24 850				
Relinquished by:	Date/Time:	Received by:	Date/Time:				

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.





**EMSL ANALYTICAL, INC.**  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

042419676

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204  
PHONE: (303) 740-5700  
EMAIL: denverlab@emsl.com

<b>Customer Information</b> Customer ID: _____ Company Name: <b>All-Phase Environmental Consultants, Inc</b> Contact Name: <b>Logan Greenfield</b> Street Address: <b>721 West 9th Street</b> City, State, Zip: <b>Pueblo CO 81003</b> Country: <b>US</b> Phone: <b>719-250-0036</b> Email(s) for Report: <b>logan@allphaseenvironmental.com</b>		<b>Billing Information</b> Billing ID: _____ Company Name: <b>All-Phase Environmental Consultants, Inc</b> Billing Contact: <b>Brandice Eslinger</b> Street Address: <b>721 West 9th Street</b> City, State, Zip: <b>Pueblo CO 81003</b> Country: <b>US</b> Phone: <b>719-240-4690</b> Email(s) for Invoice: <b>accounting@allphaseenvironmental.com</b>	
<b>Project Information</b> Project Name/No: <b>24-5808 - IM - Roncalli (3)</b> Purchase Order: _____ EMSL LIMS Project ID: _____ US State where samples collected: <b>CO</b> State of Connecticut (CT) must select project location: (If applicable, EMSL will provide) <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) Sampled By Name: <b>L. Greenfield</b> Sampled By Signature: <b>[Signature]</b> No. of Samples in Shipment: <b>3</b> Turn-Around-Time (TAT): <input type="checkbox"/> 3 Hour <input type="checkbox"/> 4-4.5 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 32 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week TEM Air 3-6 Hours, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.			
<b>PCM Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NYS 198.1 (Friable - NY) <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)		<b>Test Selection</b> <b>TEM - Air</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312* <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY) <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) <b>Other Test (please specify)</b> _____	
<b>TEM - Settled Dust</b> <input type="checkbox"/> Microvac - ASTM D5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Qualitative via Filtration Prep <input type="checkbox"/> Qualitative via Drop Mount Prep		<b>Soil - Rock - Vermiculite (reporting limit)*</b> <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep	
*Please call with your project-specific requirements.			
<input type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)		Filter Pore Size (Air Samples) <input type="checkbox"/> 0.8um <input type="checkbox"/> 0.45um	
Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
RMS-D-IM5B	Light Sand Textured Drywall	HA 5	9-20-24
RMS-D-IM18B	1"x1" Mosaic tile/Mortar	HA 18	
RMS-D-IM101C	Rough Coal Plaster - White	HA 101	
↓ - 117A	Gym Floor Tar Back	HA 117	
↓ - 117B			
Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)			
Method of Shipment: <b>Fedex</b>		Sample Condition Upon Receipt:	
Relinquished by: <b>[Signature]</b>	Date/Time: <b>9-20-24/410</b>	Received by: <b>[Signature] EFV</b>	Date/Time: <b>9/20/24 1055</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

RECEIVED

EMSL  
CINNAMINSON, NJ

24 SEP 21 AM 10:53

500



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

## Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

222404533

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204  
PHONE: (303) 740-5700  
EMAIL: denverlab@emsl.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID	Company Name: All-Phase Environmental Consultants, Inc	Billing ID:	Company Name: All-Phase Environmental Consultants, Inc
Contact Name: Robert Sais	Street Address: 721 West 9th Street	Billing Contact: Brandice Eslinger	Street Address: 721 West 9th Street
City, State, Zip: Pueblo CO 81003 Country: US	Phone: 719-545-0375	City, State, Zip: Pueblo CO 81003 Country: US	Phone: 719-240-4690
Email(s) for Report: robert@allphaseenvironmental.com	Email(s) for Invoice: accounting@allphaseenvironmental.com		

Project Information		Purchase Order:
Project Name/No: 24-5808-Roncolli Roof	US State where samples collected: CO	State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)
EMSL LIMS Project ID: (If applicable, EMSL will provide)	Sampled By Name: Robert Sais	No. of Samples in Shipment: 18
Sampled By Signature: [Signature]		

Turn-Around-Time (TAT)									
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 4-4.5 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 32 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

PCM Air		TEM - Air		TEM - Settled Dust	
<input type="checkbox"/> NIOSH 7400	<input type="checkbox"/> AHERA 40 CFR, Part 763	<input type="checkbox"/> Microvac - ASTM D5755			
<input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA	<input type="checkbox"/> NIOSH 7402	<input type="checkbox"/> Wipe - ASTM D6480			
PLM - Bulk (reporting limit)		<input type="checkbox"/> EPA Level II	<input type="checkbox"/> Qualitative via Filtration Prep		
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> ISO 10312*	<input type="checkbox"/> Qualitative via Drop Mount Prep			
<input type="checkbox"/> PLM EPA NOB (<1%)	TEM - Bulk		Soil - Rock - Vermiculite (reporting limit)*		
<input type="checkbox"/> POINT COUNT	<input type="checkbox"/> TEM EPA NOB	<input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%)	<input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%)		
<input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)	<input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY)	<input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep		
POINT COUNT w/ GRAVIMETRIC	<input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep			
<input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)	Other Test (please specify)				
<input type="checkbox"/> NIOSH 9002 (<1%)					
<input type="checkbox"/> NYS 198.1 (Friable - NY)					
<input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY)					
<input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)					

\*Please call with your project-specific requirements

<input type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)	Filter Pore Size (Air Samples) <input type="checkbox"/> 0.8um <input type="checkbox"/> 0.45um
--	---

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
Ron-R-1A	Lower Deck		9-10-24
-1B	↓		
-2A	ParaPet - Sky light		
-2B	ParaPet - Wall		
-3A	New build - Deck		
-3B	↓		
-4A	Mech Rm - Deck		
↓ -4B	Kitchen - Deck		

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

EFE7968 9942 1583

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: Robert Sais	Date/Time: 9/10/24	Received by: NL	Date/Time: 9/12/24
Relinquished by:	Date/Time:	Received by:	Date/Time: 10:00AM

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

# Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.  
1010 Yuma Street

Denver, CO 80204

PHONE: (303) 740-5700

EMAIL: denverlab@emsl.com

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
Ron-R - 5A	Cafe - Deck		9-10-24
- 5B	old Gym - Deck		
- 6A	Parapet - Sky light		
- 6B	parapet - wall		
- 7A	Sky light - Deck		
- 7B	↓		
- 8A	New Gym Deck		
- 8B	↓		
- 9A	Parapet wall		
↓ - 9B	↓		

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



## **APPENDIX 6 - ASBESTOS INSPECTOR & LABORATORY CERTIFICATIONS**



Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Logan Greenfield**

**Certification No.: 20715**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued: October 27, 2023**

**Expires: October 31, 2024**

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative

SEAL





Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Robert Sais**

**Certification No.: 23993**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued: April 26, 2024**

**Expires: May 05, 2025**

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative

SEAL





Colorado Department  
of Public Health  
and Environment

## ASBESTOS LABORATORY

This certifies that

**EMSL Analytical, Inc. - Cinnaminson**

**Registration No.: AL - 15133**

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos laboratory testing activities, as required by Regulation No 8, Part B, in the state of Colorado.

Issued: December 12, 2023

Expires: January 30, 2025

Authorized APCD Representative

SEAL





Colorado Department  
of Public Health  
and Environment

## ASBESTOS LABORATORY

This certifies that

**EMSL Analytical, Inc. - Denver**

Registration No.: AL - 15063

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos laboratory testing activities, as required by Regulation No. 8, Part B, in the state of Colorado.

Issued: November 13, 2023

Expires: December 11, 2024

Authorized APGD Representative

SFAI

## **APPENDIX 7 – PAST ACM INSPECTION DOCUMENTATION – RONCALLI**

## **AHERA THREE YEAR RE-INSPECTION**

**August 2021**

PREPARED FOR:

**Pueblo City Schools District 60**

**Building Location:**

**Roncalli Middle School**

4202 W. State Hwy 78

Pueblo, CO 81005

Re-Inspection Date: August 12, 2021

Next re-inspection Date: August 2024

**Certified Asbestos Building Inspector:**

Joseph Cardenas #24591

**Certified Management Planner**

Brandice Eslinger # 5494

**Colorado Listed Asbestos Consulting Firm: ACF-19579**

All-Phase Environmental Consultants

721 West 9<sup>th</sup> Street

Pueblo, Colorado 81003

Ph. (719) 545-0375

Web Site: [www.allphaseenvironmental.com](http://www.allphaseenvironmental.com)

**All-Phase Environmental Consultants, Inc.**

**Project # 21-4541 (AA)**

## TABLE OF CONTENTS

### Contents

I. INTRODUCTION .....	3
II. RESPONSILIBILITIES OF THE LOCAL EDUCATION AGENCY (LEA) .....	7
III. DESIGNATED PERSON .....	8
IV. APEC SAMPLE FINDINGS .....	10
V. HAZARD ASSESSMENT AND RESPONSE ACTION EVALUATIONS.....	10
VI. EVALUATION AND SELECTION OF CONTROL OPTIONS.....	10
VII. COMMENTS/DISCREPANCIES/SUMMARY OF NEW FINDINGS.....	11
VIII. SIGNATURES.....	11

### APPENDICES

- A. SITE MAP
- B. REINSPECTION AND ASSESSMENT DATA
- C. CERTIFICATIONS



**LIST OF ACRONYMS / ABBREVIATIONS**

<b>ACBM</b>	Asbestos Containing Building Material
<b>ACM</b>	Asbestos Containing Material
<b>AHERA</b>	Asbestos Hazard Emergency Response Act
<b>APEC</b>	All Phase Environmental Consultants
<b>CABI</b>	Certified Asbestos Building Inspector
<b>EPA</b>	Environmental Protection Agency
<b>LEA</b>	Local Education Agency
<b>O&amp;M</b>	Operations and Maintenance
<b>OSHA</b>	Occupational Safety and Health Administration

**I. INTRODUCTION**

At least once every three years after a Management Plan is in effect the LEA shall conduct a reinspection of all friable and non-friable, known or assumed asbestos in each school building that the school district leases, owns, or otherwise uses as a school building. The inspection is designed to ascertain the physical condition of the material by visual inspection, and hand pressure on the material to determine friability. Any changes in the condition of the material need to be recorded, and then submitted to the person who was designated under Subsection IV.B. A copy of the record must be placed in the most recent Management Plan as an update. Additionally any records of abatement should be noted. The following re-inspection is based solely on the 2018 re-inspections of Dave Kahler of RLH Engineering. It was not within the scope of APEC's services to go back through the entire history of each school/ school building to determine, if Mr.Kahler's reports were thorough. However, if an obvious discrepancy was noted in the field during the 2021 re-inspection those are highlighted in **RED** in section VII. There may be additional discrepancies and/ or unidentified ACBM's that were not in the 2018 reports, thus those were not re-inspected by APEC personnel.

The major purpose of this re-inspection is to satisfy the requirements of the AHERA and Colorado Department of Public Health and Environment requirements as found in Section IV of Regulation Number 8, Part B Effective March 17, 2021. It is assumed that an original AHERA asbestos report was developed in 1988 or when the building was constructed.

**School Inspected:**

The AHERA re-inspection of Roncalli Middle School, Pueblo Colorado was conducted on August 12, 2021. During this investigation, no suspect asbestos samples were obtained.

Synopsis of AHERA Re- inspection regulations:

The following regulations apply to AHERA re-inspection as published in the Federal Register, Part III, The Environmental Protection Agency, 40 CFR Part 763. §763.85 Inspection and re- inspection and §763.88 Assessment.

§763.85 Inspection and reinspections.

- (a) *Inspection.* (1) Except as provided in paragraph (a) (2) of this section, before October 12, 1988, local education agencies shall inspect each school building that they lease, own, or otherwise use as a school building to identify all locations of friable and nonfriable ACBM.
- (2) Any building leased or acquired on or after October 12, 1988, that is to be used as a school building shall be inspected as described under paragraphs (a) (3) and (4) of this section prior to use as a school building. In the event that emergency use of an uninspected building as a school building is necessitated, such buildings shall be inspected within 30 days after commencement of such use.
- (3) Each inspection shall be made by an accredited inspector.
- (4) For each area of a school building, except as excluded under §763.99, each person performing an inspection shall:
  - (i) Visually inspect the area to identify the locations of all suspected ACBM.
  - (ii) Touch all suspected ACBM to determine whether they are friable.
  - (iii) Identify all homogeneous areas of friable suspected ACBM and all homogeneous areas of nonfriable suspected ACBM.
  - (iv) Assume that some or all of the homogeneous areas are ACM, and, for each homogeneous area that is not assumed to be ACM, collect and submit for analysis bulk samples under §§763.86 and 763.87.
  - (v) Assess, under §763.88, friable material in areas where samples are collected, friable material in areas that are assumed to be ACBM, and friable ACBM identified during a previous inspection.
  - (vi) Record the following and submit to the person designated under §763.84 a copy of such record for inclusion in the management plan within 30 days of the inspection:
    - (A) An inspection report with the date of the inspection signed by each accredited person making the inspection, State of accreditation, and if applicable, his or her accreditation number.
    - (B) An inventory of the locations of the homogeneous areas where samples are collected, exact location where each bulk sample is collected, dates that samples are collected, homogeneous areas where friable suspected ACBM is assumed to be ACM, and homogeneous areas where nonfriable suspected ACBM is assumed to be ACM.

- (C) A description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, State of accreditation, and, if applicable, his or her accreditation number.
- (D) A list of whether the homogeneous areas identified under paragraph (a)(4)(vi)(B) of this section, are surfacing material, thermal system insulation, or miscellaneous material.
- (E) Assessments made of friable material, the name and signature of each accredited inspector making the assessment, State of accreditation, and if applicable, his or her accreditation number.
- (b) *Reinspection.* (1) At least once every 3 years after a management plan is in effect, each local education agency shall conduct a reinspection of all friable and nonfriable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building.
- (2) Each inspection shall be made by an accredited inspector.
- (3) For each area of a school building, each person performing a reinspection shall:
  - (i) Visually reinspect, and reassess, under §763.88, the condition of all friable known or assumed ACBM.
  - (ii) Visually inspect material that was previously considered nonfriable ACBM and touch the material to determine whether it has become friable since the last inspection or reinspection.
  - (iii) Identify any homogeneous areas with material that has become friable since the last inspection or reinspection.
  - (iv) For each homogeneous area of newly friable material that is already assumed to be ACBM, bulk samples may be collected and submitted for analysis in accordance with §§763.86 and 763.87.
  - (v) Assess, under §763.88, the condition of the newly friable material in areas where samples are collected, and newly friable materials in areas that are assumed to be ACBM.
  - (vi) Reassess, under §763.88, the condition of friable known or assumed ACBM previously identified.
  - (vii) Record the following and submit to the person designated under §763.84 a copy of such record for inclusion in the management plan within 30 days of the reinspection:
    - (A) The date of the reinspection, the name and signature of the person making the reinspection, State of accreditation, and if applicable, his or her accreditation number, and any changes in the condition of known or assumed ACBM.
    - (B) The exact locations where samples are collected during the reinspection, a description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, State of accreditation, and, if applicable, his or her accreditation number.
    - (C) Any assessments or reassessments made of friable material, the name and signature of the accredited inspector making the assessments, State of accreditation, and if applicable, his or her accreditation number.

- (c) *General.* Thermal system insulation that has retained its structural integrity and that has an undamaged protective jacket or wrap that prevents fiber release shall be treated as nonfriable and therefore is subject only to periodic surveillance and preventive measures as necessary.

§763.88 Assessment.

- (a)(1) For each inspection and reinspection conducted under §763.85 (a) and (c) and previous inspections specified under §763.99, the local education agency shall have an accredited inspector provide a written assessment of all friable known or assumed ACBM in the school building.
- (2) Each accredited inspector providing a written assessment shall sign and date the assessment, provide his or her State of accreditation, and if applicable, accreditation number, and submit a copy of the assessment to the person designated under §763.84 for inclusion in the management plan within 30 days of the assessment.
- (b) The inspector shall classify and give reasons in the written assessment for classifying the ACBM and suspected ACBM assumed to be ACM in the school building into one of the following categories:
  - (1) Damaged or significantly damaged thermal system insulation ACM.
  - (2) Damaged friable surfacing ACM.
  - (3) Significantly damaged friable surfacing ACM.
  - (4) Damaged or significantly damaged friable miscellaneous ACM.
  - (5) ACBM with potential for damage.
  - (6) ACBM with potential for significant damage.
  - (7) Any remaining friable ACBM or friable suspected ACBM.
- (c) Assessment may include the following considerations:
  - (1) Location and the amount of the material, both in total quantity and as a percentage of the functional space.
  - (2) Condition of the material, specifying:
    - (i) Type of damage or significant damage (e.g., flaking, blistering, water damage, or other signs of physical damage).
    - (ii) Severity of damage (e.g., major flaking, severely torn jackets, as opposed to occasional flaking, minor tears to jackets).
    - (iii) Extent or spread of damage over large areas or large percentages of the homogeneous area.
  - (3) Whether the material is accessible.
  - (4) The material's potential for disturbance.

- (5) Known or suspected causes of damage or significant damage (e.g., air erosion, vandalism, vibration, water).
- (6) Preventive measures which might eliminate the reasonable likelihood of undamaged ACM from becoming significantly damaged.
- (d) The local education agency shall select a person accredited to develop management plans to review the results of each inspection, reinspection, and assessment for the school building and to conduct any other necessary activities in order to recommend in writing to the local education agency appropriate response actions. The accredited person shall sign and date the recommendation, provide his or her State of accreditation, and, if applicable, provide his or her accreditation number, and submit a copy of the recommendation to the person designated under §763.84 for inclusion in the management plan.

## **II. RESPONSIBILITIES OF THE LOCAL EDUCATION AGENCY (LEA)**

The appointed LEA Designee must:

- A. The Designated Person must take an approved AHERA EPA asbestos course such as the Inspector/Management Planner or complete the EPA self-study guide including watching the CDPHE video.
- B. Ensure that the activities of any person who perform inspections, re-inspections, and periodic surveillance, develop and update management plans and develop and implement response actions, including operations and maintenance are carried out in accordance with subpart E of §763.84.
- C. Ensure that all custodial and maintenance employees are properly trained as required by subpart E of §763.84 and other applicable Federal and/or State regulations.
- D. Ensure that workers and building occupants or their legal guardians at least once each school year about inspections, reinspections and surveillance activities that are planned or in progress. Parent notification information must be put into the in the management plan.
- E. Ensure that maintenance personnel who would be required to disturb ACBM be given an additional 14 hours of training. O & M or worker training is available at environmental training centers located in many larger cities.
- F. Ensure that part time workers (e.g. telephone repair workers, utility workers or exterminators) who might come in contact with asbestos in a school are provided information regarding the locations of ACBM or assumed to be ACM.
- G. Ensure that warning labels are posted in accordance with §763.95
- H. Ensure that management plans are available for inspection and notification of such availability has been provided as specified in the management plan under §763.95 (g).
  - (1) Designate a person to ensure that requirements under this section are properly implemented.
  - (2) Ensure that the designated person receives adequate training to perform duties assigned under this section. All maintenance staff members need to receive a 2-hour asbestos awareness class

Such training shall provide as necessary to include the basic knowledge of:

- a) Health effects of asbestos exposure.
- b) What is asbestos and why it was used
- c) Detection, identification, and assessment of asbestos.
- d) Location of asbestos containing materials in their school.
- e) How not to disturb asbestos material
- f) How to recognize and report damage,
- g) Who to call and what information to give to the LEA in case of an accidental release
- h) Operation for controlling ACBM.
- i) Asbestos management programs.
- j) Relevant Federal and State regulations concerning asbestos, including those in subpart E and those of OSHA.

### **III. DESIGNATED PERSON**

The Designated person as directed by Pueblo City Schools School District 60 for being responsible for the implementation of the Management Plan is:

**Mr. Anthony Vigil**  
**Safety & Environmental Health Officer, Pueblo City Schools District #60**  
**1902 Montezuma**  
**Pueblo, CO 81003**

The responsibilities of the Plan, as stipulated in section §763.84 of the Asbestos Hazard Emergency Response Act, have been or will be met.

---

Signature of designated person

---

Date

### **Responsibilities of the LEA**

Local education agencies\* (LEAs) must safeguard children from airborne asbestos fibers in schools. Below is a brief summary of an LEA's responsibilities for asbestos inspections, reinspection's, abatement projects, non-friable floor tile removal, management plans and record keeping in schools.

Colorado's Asbestos Abatement Act and Code requires a designated person in each LEA to oversee all asbestos management plan activities. This person must receive adequate training, as required by the federal Asbestos Hazard Emergency Response Act (AHERA), about asbestos and its various uses and forms and about the health effects associated with asbestos exposure. He or she also must know the locations of asbestos-containing building material (ACBM) identified in school buildings and recognize deterioration and delamination of ACBM. The person also should be aware of the availability and location of the school's

management plan and have knowledge of upcoming renovation projects to determine if they will impact asbestos-containing materials (ACM).

Each LEA shall ensure the following:

1. Anyone who conducts any inspections, reinspection's, or abatement projects; develops or updates management plans; or performs operations and maintenance that will disturb ACM are licensed asbestos professionals.
2. All custodial and maintenance staff have received two-hour asbestos awareness training and 16 hours of operations and maintenance training as described in AHERA.
3. The parents, teachers and employee organizations are notified on an annual basis of all inspections, response actions and periodic surveillance that are planned or in progress in regard to asbestos in each school building.
4. Short-term workers (e.g., telephone repair workers, utility workers or exterminators) are informed of the locations of ACBM in school buildings.
5. Warning signs are posted immediately adjacent to ACM in routine maintenance areas that state, "Danger. Asbestos. Hazardous. Do Not Disturb Without Proper Training and Equipment."
6. Parents, teachers and employee organizations are notified in writing on an annual basis of the availability of the school's asbestos management plan.
7. The management plans are available for inspection in each school and the district office.
8. Records are properly maintained.
9. Each management plan contains a statement, signed by the designated person that certifies the LEA's responsibilities have been or will be met. The statement needs to be amended for each new designated person chosen by the LEA and notification of such changes sent to the Colorado Department of Public Health & Environment.
10. Reinspections are conducted at least once every three years after a management plan is in effect and the school reinspection form is sent to CDPHE within 30 days after the inspection.
11. All of the abatement records (final air clearances and manifests for abated bulk asbestos) are located in the AHERA inspection book and readily available for inspection.



**IV. APEC SAMPLE FINDINGS**

*No samples were obtained during the re-inspection of 2021*

**V. HAZARD ASSESSMENT AND RESPONSE ACTION EVALUATIONS**

Per previous re-inspections and this inspection all materials were touched to ascertain friability, with light finger pressure. Materials were assessed to determine the condition and the disturbance potential. A hazard potential number is assigned to the asbestos being assessed using the following criteria as determined by the rules and regulation as stated in the Regulation No 8 under the title “inspections”:

<b>Hazard</b>	<b>ACBM Condition</b>	<b>Disturbance Potential</b>
1	Poor	Any
2	Fair	High
3	Fair	Moderate
4	Fair	Low
5	Good	High
6	Good	Moderate
7	Good	Low

**VI. EVALUATION AND SELECTION OF CONTROL OPTIONS**

There are 5 Control Options alternatives available to the School. They include:

**Repair** – means returning damaged ACM or ACBM to an undamaged condition or to an intact state so as to prevent fiber release.

**Encapsulation** – means application of a liquid material to asbestos-containing material which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant). Painting for purposes other than controlling asbestos fibers is not considered encapsulation

**Enclosure** - an airtight, impermeable, permanent barrier around ACM to minimize the release of asbestos fibers into the air

**Removal** - means the taking out or the stripping of ACM or ACBM from a damaged area, a functional space, or a homogeneous area in or on a facility.

**Operations and Maintenance Program** - means a program of work practices developed by a certified management planner to maintain friable ACM or ACBM in good condition, ensure clean-up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACM or ACBM disturbance or damage.

## VII. COMMENTS/DISCREPANCIES/SUMMARY OF NEW FINDINGS

- CMU/Mortar Block filler has recently been defined as a suspect material and was never addressed in previous re-inspections. At this time it is assumed ACM – Located on all interior and exterior walls – Assessed August 2021
- Damaged 9X9 Floor tiles in cafeteria office, room 9, and media office
- Damaged Cove Base in room 26, 27, custodial closet, band room, and media office
- Hard pack TSI was found in Gym on HVAC units

## VIII. SIGNATURES

### ASBESTOS INSPECTOR

All-Phase Environmental Consultants Inc.



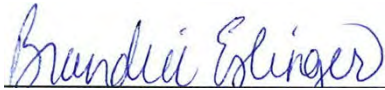
Joseph Cardenas

AHERA Certified Asbestos Inspector

Colorado Certified Asbestos Building Inspector Certification No. 24591

### MANAGEMENT PLANNER

All-Phase Environmental Consultants Inc.



Brandice Eslinger

AHERA Certified Asbestos Inspector

Colorado Certified Asbestos Building Inspector/Management Planner  
Certification No. 5494

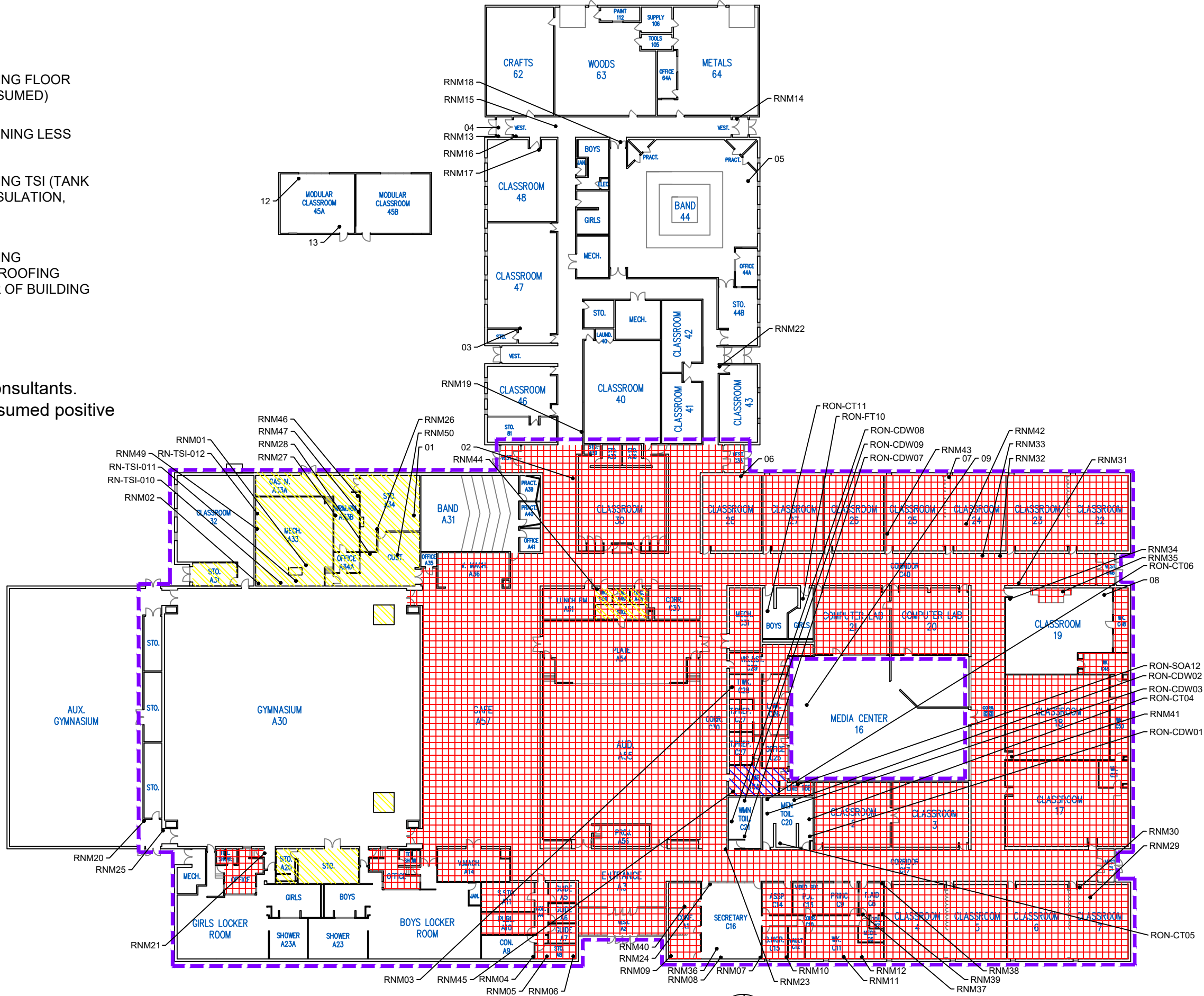
# Appendix A

## Site Map

LEGEND

- ASBESTOS CONTAINING FLOOR TILE (TESTED OR ASSUMED)
- CEILING TILE CONTAINING LESS THAN 1% ASBESTOS
- ASBESTOS CONTAINING TSI (TANK INSULATION, PIPE INSULATION, ETC.)
- ASBESTOS CONTAINING STRUCTURAL FIRE PROOFING AROUND PERIMETER OF BUILDING

NOTE:  
All sampling done by previous consultants.  
CMU filler within the school is assumed positive ACM



FIRST FLOOR PLAN  
NO SCALE

PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

SHEET TITLE: ASBESTOS  
MANAGEMENT PLAN  
APEC: Project #: 21-4541-AA  
DATE: 2021

NOTE:  
THIS DRAWING MUST BE  
PRINTED IN COLOR TO  
SHOW ALL INFORMATION  
ACCURATELY.

4302 HIGHWAY 78  
PUEBLO, COLORADO 81005

## Appendix B

# Reinspection and Assessment Data

## REINSPECTION AND ASSESSMENT DATA

**LEA: Pueblo School District #60**

**Building: Roncalli Middle School**

**Date: Completed August 12, 2021**

**Inspector Certification #: 24591**

**Inspector: Joseph Cardenas**

Description of ACBM or Assumed ACBM Homogeneous Areas	Type of Material		Damaged Y/N	AHERA Category	Comments and/or Change in Condition from Previous Inspection
	S/T/M	FR/NFR			
<b>1.0 TSI</b>	T	FR			
Pipe Insulation / Fittings	T	FR	Y	Damaged or SD TSI	As of previous inspection, fittings appear to have been removed in janitors closet to west of auditorium. Boiler room TSI appears to have been removed as well. Significant damage to fittings in gym area- remove fittings using properly certified personnel. Potential for disturbance is moderate
TSI Fittings in Gym	T	NFR	N	ACBM w/ Potential for dam	Identified in 2021 Inspection
<b>2.0 Surfacing Material - Wall or Ceiling Texturing</b>	S	FR			
Spray-on acoustical texturing	S	FR	Y	Significantly Damaged FR S	No significant changes from the previous reinspection. This material is unencapsulated and extremely friable. Debris from this material is lying on top of ceiling tiles throughout rooms along the building perimeter. Recommend abating this material ASAP. Potential for disturbance is High due to vibration and air movement.
Drywall walls/ceilings w/glossy texturing	S	FR	N	ACBM w/potential for damage	Material is in good condition throughout. Continue with O&M. Moderate potential for damage.
Hard walls/ceilings w/texturing	S	FR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for damage.
<b>3.0 Ceiling Tiles</b>					Non-ACM per previous reinspections.
<b>4.0 9x9 Floor Tile and Mastic- All types</b>	M	NFR			All types assumed.

## REINSPECTION AND ASSESSMENT DATA

**LEA: Pueblo School District #60**

**Building: Roncalli Middle School**

**Date: Completed August 12, 2021**

**Inspector Certification #: 24591**

**Inspector: Joseph Cradenas**

Description of ACBM or Assumed ACBM Homogeneous Areas	Type of Material		Damaged Y/N	AHERA Category	Comments and/or Change in Condition from Previous Inspection
	S/T/M	FR/NFR			
	M	NFR	Y	ACBM w/potential for damage	Minor cracking in rooms 17, 18, 21, 22, 23, and 26-keep tiles waxed and monitor damage. Damage previously noted in room 27 has been repaired. Continue with O&M. High potential for damage due to foot traffic. Rooms 18, 21, 22 and 26 are well waxed. RM 23 has carpet. Inside North Entrance missing tiles, should be replaced. Throughout building (classrooms and hallways) craked tile, gouges, missing tiles but all well waxed.
<b>5.0 12x12 Floor Tile and Mastic</b>	M	NFR			
Off white w/gray/tan mottled	M	NFR	N	ACBM w/potential for damage	Good condition, well waxed. Continue with O&M. High potential for disturbance.
Tan mottled	M	NFR	N	ACBM w/potential for damage	Good condition, well waxed. Continue with O&M. High potential for disturbance.
Tan w/bronze lines	M	NFR	N	ACBM w/potential for damage	Good condition, well waxed. Continue with O&M. High potential for disturbance.
Tan w/rust & white streaks	M	NFR	N	ACBM w/potential for damage	Material was listed as being in the portable building. Portable building was observed to have carpet. Assume tile is beneath carpet. Potential for disturbance is low.
<b>6.0 Vinyl Flooring</b>	M	NFR			
Vinyl strips	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.
<b>7.0 Tile under Carpet</b>	M	NFR	--	ACBM w/potential for damage	It is assumed that asbestos tile may be present under any carpeted areas. Cannot assess. Low potential for damage.
<b>8.0 Vinyl Wall Base w/mastic</b>	M	NFR			



## REINSPECTION AND ASSESSMENT DATA

**LEA: Pueblo School District #60**

**Building: Roncalli Middle School**

**Date: Completed August 12, 2021**

**Inspector Certification #: 24591**

**Inspector: Joseph Cardenas**

Description of ACBM or Assumed ACBM Homogeneous Areas	Type of Material		Damaged Y/N	AHERA Category	Comments and/or Change in Condition from Previous Inspection
	S/T/M	FR/NFR			
All types	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.
9.0 Countertops – all types	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.
10.0 Laboratory benchtops	M	NFR	N	ACBM w/potential for damage	Good condition. Continue with O&M. Moderate potential for disturbance.

### AHERA CATEGORIES

- \_\_\_ Damaged or Significantly Damaged TSI
- \_\_\_ Damaged Friable Surfacing Material
- \_\_\_ Significantly Damaged Friable Surfacing Material
- \_\_\_ Damaged or Significantly Damaged Friable Misc. Material
- \_\_\_ ACBM with Potential for Damage
- \_\_\_ ACBM with Potential for Significant Damage
- \_\_\_ Any Remaining Friable ACBM or Friable Suspect ACBM

**S / T / M - Surfacing Material / TSI / Miscellaneous**  
**TSI - Thermal System Insulation**  
**FR / NFR - Friable / Non-Friable**  
**SD - Significantly Damaged**

# Appendix C

# Certifications



Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Joseph Cardenas**

**Certification No.: 24591**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued: May 20, 2021**

**Expires: June 10, 2022**

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative

SEAL





Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Brandice N. Eslinger**

**Certification No.: 5494**

has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Inspector/Management Planner\***

**Issued:** April 27, 2021

**Expires:** May 28, 2022

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

Authorized APCD Representative

SEAL

Asbestos Abatement/Environmental Control  
Roncalli Stem Academy – Pueblo  
Building Abatement & Demolition

## **EXHIBIT 5**

**All-Phase Environmental Consultants, Inc.**

**ACM Location Diagram**



Aux Gym  
Addition

Original  
Construction

Trades  
Addition

West Addition



FIRST FLOOR PLAN  
NO SCALE

PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN  
401 S. HIGHWAY 70  
PUEBLO, COLORADO 81005

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project #: 21-4541-AA  
DATE: 2021



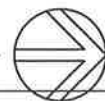
# Flooring

- 9x9 VCT w/mastic (multi-colors)
- 12x12 VCT w/mastic - Blue
- 12x12 VCT w/mastic - White w/Black
- 12x12 VCT w/mastic - Gray
- 12x12 VCT w/mastic - Tan
- 12x12 VCT w/mastic - Bright Blue
- 12x12 VCT w/mastic - Dark Tan
- 12x12 VCT w/mastic - Tan w/Brown
- 12x12 VCT w/mastic - Brown w/Gray
- 12x12 VCT w/mastic - Tan w/Gray
- 12x12 VCT w/mastic - Brown Tiger
- Blue Epoxy
- Green Epoxy
- Mosaic Floor Tile
- Concrete Floor

- Carpet/Adhesive (multi-colors) - Purple on concrete - NO VCT
- Tar/Cork Backing
- Carpet/Adhesive on wood



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE: 2021

4303 HIGHTWAY 78  
PUEBLO, COLORADO 81005



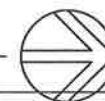
# Surfacing

- CMU Filler - White Base
- CMU Filler - Tan Base
- CMU Filler - Green Base
- CMU Filler - Blue Base
- \* // Textured Drywall - Gloss Orange-Peel
- Textured Drywall - New wall additions
- Textured Drywall - Brush Style
- Textured Drywall - smooth 1
- Textured Drywall - Sand
- Rough Coat on foam
- // Heavy Gloss on Concrete
- Textured Drywall - smooth 2
- Textured Drywall
- Painted/Decor CMU
- // Drywall/Joint Compound



- \* Walls not marked are Brick/Mortar (+Exterior)
- \* Any Ceilings Not marked are Drop ceiling tile (All ND)
- \* Ceilings are noted with Hatch

FIRST FLOOR PLAN  
NO SCALE



# Wall Tile

Light blue 4x4 wall tile /  
 teal 4x4 wall tile /  
 white 4x4 wall tile /  
 Blue 4x4 wall tile /  
 Pink 4x4 wall tile /

Joint Compound / / / /

Joint Compound / / / / /

Vibration Isolators (Fiber) ○

Vibration Isolators (Rubber) ○



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
 RONCALLI MIDDLE SCHOOL  
 ASBESTOS MANAGEMENT PLAN

502 HIGHWAY 78  
PUEBLO, COLORADO 81005

SHEET TITLE: ASBESTOS  
 MANAGEMENT PLAN  
 APEC Project # 21-4541-AA  
 DATE: 2021

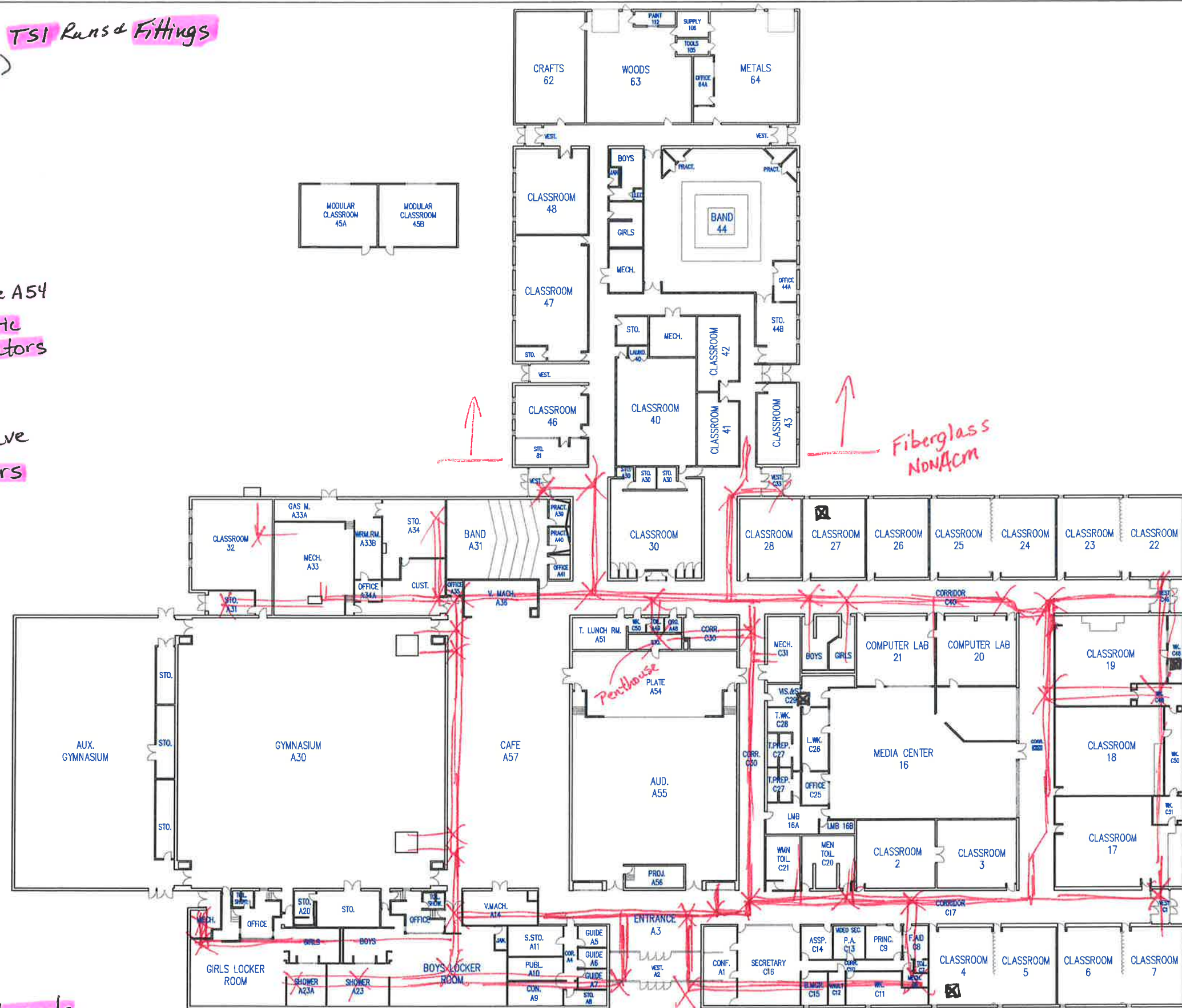


General Location of TSI Runs & Fittings  
(above ceiling)

- \*Penthouse - Above A54
  - Duct Mat Mastic
  - Vibration Isolators
  - TSI Fittings

- \* All mech Rooms have
  - Vibration Isolators
  - TSI Fittings

- \* Vibration Isolators in tunnels
- \* TSI Fittings are located in tunnels
- ☒ = tunnel Doors



FIRST FLOOR PLAN  
NO SCALE

**PUEBLO SCHOOL DISTRICT #60**  
**RONCALLI MIDDLE SCHOOL**  
**ASBESTOS MANAGEMENT PLAN**

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE: 2021

42021NGIWAY78

Fireproofing/Transite

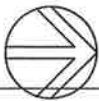
Fireproofing - on Horizontal Beams  
\*To include all overspray  
in area of application

Exterior Transite - Rock Soffit

Transite pipe - Below Slab  
o - visible



FIRST FLOOR PLAN  
NO SCALE



PUEBLO SCHOOL DISTRICT #60  
RONCALLI MIDDLE SCHOOL  
ASBESTOS MANAGEMENT PLAN

SHEET TITLE ASBESTOS  
MANAGEMENT PLAN  
APEC Project # 21-4541-AA  
DATE 2021

4001 HIGHWAY 78  
PUEBLO, COLORADO 81005