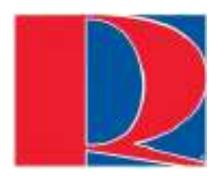
ASBESTOS PROJECT DESIGN



RAYTOWN QUALITY SCHOOLS

LOCATIONS: CENTRAL MIDDLE SCHOOL, SOUTHWOOD ELEMENTARY, NORTHWOOD ELEMENTARY, LAUREL HILLS ELEMENTARY, SPRING VALLEY ELEMENTARY

Prepared for:

Josh Hustad

Director of Facility Operations Raytown Quality Schools 5911 Blue Ridge Boulevard Raytown, Missouri 64133

Prepared by:



PO Box 47166 Kansas City, MO 64188 816-678-7894

Project Designer: Glenn Robinson License #: 7011010421MOPDR4804

March 4, 2022

Asbestos Project Design – Raytown Quality Schools – Various Locations

Table of Contents

Bidding Requirements	
SECTION 00100 BID SOLICITATION	2
SECTION 00400 BID FORM	
SECTION 004300 BID FORM SUPPLMENTS - BONDS	7
Contract Forms	
SECTION 00520 AGREEMENT FORM	7
Conditions	
SECTION 00700 – GENERAL CONDITIONS	
SECTION 00830 – WAGE DETERMINATION SCHEDULE	
SECTION 00835 – AFFIDAVIT COMPIANCE WITH PREVAILING WAGE	9
Division 1 General Requirements	
SECTION 01010 – SUMMARY OF WORK	
SECTION 01040 – COORDINATION	
SECTION 01095 – CODES, REGULATIONS, AND STANDARDS	
SECTION 01300 – SUBMITTALS	
SECTION 01500 – CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS	
SECTION 01560 – WORKER PROTECTION	
SECTION 01565 – RESPIRATORY PROTECTION	
SECTION 01700 – PROJECT CLOSEOUT	32
Division 2 Site Work	
SECTION 02071 – ASBESTOS ABATEMENT	
SECTION 02074 – TESTING	14
Attachments	
Attachment A – Asbestos Containing Material Quantity and Location	
Attachment B – Asbestos Inspection Reports 2022	
Attachment C – Project Designer Certification	
$Attachment\ D-Affidavit\ Compliance\ with\ Prevailing\ Wage\ Law/Annual\ Wage\ Determination\ School Scho$	ıedule
Attachment E – E-Verify Letter	
Attachment F – Subcontractor List	
Attachment G – 10 Hour OSHA Training Affidavit	
Attachment H – Drug and Alcohol Testing Program Affidavit	
Attachment I – Missouri Service-Disabled Veteran Business Preference	
Attachment J – Floor Plans	

Bidding Requirements

1

SECTION 00100 BID SOLICITATION

PROJECT: Raytown Quality Schools - "Asbestos Abatement"

Central Middle School 10601 East 59th Street Raytown, Missouri 64133

Southwood Elementary 8015 Raytown Road Raytown, Missouri 64138

Northwood Elementary 4400 Sterling Avenue Kansas City, Missouri 64133

OWNER: Raytown Quality Schools

5911 Blue Ridge Boulevard Raytown, Missouri 64133

CONSULTANT: Axiom Service Professionals

PO Box 47166

Kansas City, Missouri 64188

Laurel Hills Elementary 5401 Lane Avenue Raytown, Missouri 64133

Spring Valley Elementary 8838 East 83rd Street Raytown, Missouri 64138

Contractors are invited to submit a lump sum bid, on Bid Form provided, for a General Contract under seal to Owner, at the main receptionist desk at the office of the Raytown Quality Schools at 5911 Blue Ridge Boulevard, Raytown, Missouri 64133 before 10:00 a.m. local time on Thursday, March 10, 2022 for the above project. Bids received after this time will not be accepted. Mark envelopes "ASBESTOS ABATEMENT" Raytown Quality Schools.

Contractors and Sub-contractors may obtain bidding documents on or after March 4, 2022. Documents may be obtained electronically at no charge by e-mail request to priority@axiomservicepros.com or jessicas@axiomservicepros.com.

A <u>mandatory attendance</u> pre-bid conference will be held on Tuesday, March 8, 2022, beginning at 3:00 p.m. at Central Middle School located at 10601 East 59th Street, Raytown, Missouri 64133. Project review will immediately follow. <u>Attendance of pre-bid meeting and site visit attendance (as a group with Axiom Service Professionals) is prerequisite to acceptance of bid.</u>

Bidder agrees to start abatement work at on the first floor of Central Middle School on March 28, 2022 and to achieve Final Completion no later than April 1, 2022. For the Central Middle School lower-level and the remaining schools, the bidder agrees to start abatement work on May 31, 2022 and to achieve Final Completion no later than June13, 2022.

Each school will be awarded under a separate contract to ensure the work can be completed within the timeframe. It is the Owners intent to award the contracts on following board approval March 14, 2022.

Bids will be required to be submitted under a condition of irrevocability for a period of sixty days after submission. The Owner reserves the right to accept any Bid, to waive irregularities in bids and bidding, and to reject any or all Bids. Prevailing Wage rates as determined by the Missouri Department of Labor and Industrial Relations Division of Labor Standards; shall apply to this project should they meet the requirements of Legislation (HB 1729) as passed by the Missouri General Assembly August 28, 2018.

SECTION 00400 BID FORM

ASBESTOS ABATEMENT

For

Raytown Quality Schools – Various Locations 5911 Blue Ridge Boulevard, Raytown, Missouri 64133

Bid Due Date: Thursday, March 10, 2022 at 10:00 AM CST

From:	
	(Legal name of bidder, hereinafter called "Bidder")
(Check	one of the following.) [] A corporation registered in the State of [] A partnership [] A sole proprietor
Го:	Mr. Josh Hustad Director of Operations Raytown Quality Schools 5911 Blue Ridge Boulevard Raytown, Missouri 64133 Email: josh.hustad@raytownschools.org
and ned cor cor in s	e undersigned, having familiarized itself with the scope of work outlined by the Asbestos Project Manual d local conditions effecting the cost of the Work and considered the availability of labor, materials, cessary tools, expendable equipment, and all utility and transportation service necessary to perform and mplete in a workmanlike and timely manner all of the Work required for the Project and having nsidered all applicable laws and regulations that protect the environment or human health and safety, all strict conformance with the Bidding Documents (including Addenda Nos,, and, ereceipt of which is hereby acknowledged), for the lump sums hereinafter proposed.
2. BA	ASE BID FOR STRUCTURE
and	BASE BID #1 – Central Middle School: All prescribed work outlined by the Asbestos Project Manual d Attachment A, excluding content handling, content moving, content removal, content storage, and ntent disposal.
	A. The Sum of Dollars (\$) for the work at Central Middle School outlined in the Asbestos Project Manual and Attachment A.

	and content disposal. A. The Sum of	ollars (\$)
	A. The Sum of Do for the work at Southwood Elementary School outlined in the Attachment A.	e Asbestos Pro	ject Manual and
N	3 BASE BID #3 – Northwood Elementary : All prescribed work of anual and Attachment A, excluding content handling, content moving, and content disposal.		
	A. The Sum of Do for the work at Northwood Elementary School outlined in the Attachment A.	ollars (\$ e Asbestos Pro	ject Manual and
N	4 BASE BID #4 – Laurel Hills Elementary: All prescribed work fanual and Attachment A, excluding content handling, content moving, and content disposal.		
	A. The Sum of Do for the work at Laurel Hills Elementary School outlined in the Attachment A.	ollars (\$ ne Asbestos Pro	ject Manual and
N	5 BASE BID #5 – Spring Valley Elementary : All prescribed work fanual and Attachment A, excluding content handling, content moving, and content disposal.		
3. U	A. The Sum of Do for the work at Spring Valley Elementary School outlined in the Attachment A. NIT PRICES (add and deduct)	ollars (\$	ject Manual and
1.	Unit price per 40-yard asbestos dumpster including placement & disposal	Each	\$
2.	Unit price Asbestos Laborer:	Per Hour	\$
3.	Unit price Asbestos Supervisor:	Per Hour	\$
4.	Unit price to remove asbestos floor tile & mastic:	Per SF	\$
5.	Unit price to remove asbestos floor tile & mastic under carpet:	Per SF	\$
6.	Unit price to remove asbestos floor tile & mastic under 12" floor tile:	Per SF	\$
7.	Unit price to remove black mastic under carpet:	Per SF	\$
8	Unit price to remove non-asbestos floor tile:	Per SF	\$
9.	Mark-up on materials utilized during T&M work:	%	
10.	Unit price for Re-mobilization to site	Per Event	\$

Unit price for Re-mobilization to site

3.

10.

4. FEES FOR CHANGES IN THE WORK:

No more than the following fees shall be used for lump sum pricing and actual cost pricing of additions and deletions to Work not covered by Unit Prices:

		Profit &
		Overhead
A.	To Contractor for work performed by Contractor's own forces:	10%
B.	To Contractor for work performed by other than Contractor's own forces:	5%
C.	To Subcontractor for work performed by Subcontractor's own forces:	10%
D.	To Subcontractor for work performed by other than Subcontractor's own forces:	5%

Percentages for overhead and profit will not be allowed on applicable taxes and bond premiums.

5. If a	awarded a Projec	et, Bidder's su	perintendent and r	epresentative will be	
---------	------------------	-----------------	--------------------	-----------------------	--

The Bidder agrees to furnish all labor, materials and equipment and services required to do, perform and complete Work in accordance with the Contract Documents.

- 6. The Bidder agrees that Owner reserves the right to accept or reject any or all Bids, Alternates or Unit Prices, and reject a Bid not accompanied by required bid security or by information required by Bidding Documents. Owner can reject a Bid, if in any way incomplete or irregular, and waive irregularities in Bids received and minor discrepancies in the bidding procedures. The following submittals are required with the bid:
 - a. Bid Form
 - b. Bonds (When Applicable)
 - c. List of SubContractors
 - d. Affidavit of Compliance with Prevailing Wage Laws
 - e. E-Verify Affidavit
 - f. OSHA 10 Training Affidavit
 - g. Drug and Alcohol Testing Program Affidavit
 - h. Missouri Service Disabled Vetran Business Preference (if applicable)
 - i. Insurance Certificates

The Bidder Agrees to start work for the Base Bid #1 at Central Middle School, first floor, on March 28, 2022 and to achieve final completion no later than April 1, 2022. For Central Middle School lower level and the remaining schools, the Bidder Agrees to start work for the lower level of Base Bid #1 and Base Bids #2 through #5 on May 31, 2022 and to achieve final completion no later than June 13, 2022. The Bidder agrees to pay penalties as specified in General Conditions Paragraph 18. The Liquidated Damages if deemed necessary.

7. CERTIFICATION OF EQUAL EMPLOYEMENT OPPORTUNITY AND AFFIRMATIVE ACTION:

The Bidder represents that:

A. The Bidder will, in all solicitation or advertisement for employees placed by or on behalf of the Bidder, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin or age.

- B. The Bidder will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or age. The Bidder will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to race, color, religion, sex, national origin or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- C. The Bidder certifies that they have a written Affirmative Action Plan.

8. CERTIFICATION:

Bidder hereby warrants, represents, and certifies that the following statements are true and correct:

- A. That the Bidder is not delinquent in any real estate, personal property, or earnings taxes assessed against it or which it is obligated to pay to Jackson County.
- B. That no unidentified third party will have an interest in any resulting contract or in the performance of any work thereunder.
- C. That Bidder does not do business as or operate by any fictitious name except the following:

- D. That no official, officer or employee of the Client (or their spouse or dependent children or any business with which any of them are associated) will receive any monetary benefit or financial gain regarding this Bid or any resulting contract; and
- E. That the Bidder's individual officers and key employees have not been convicted of a felony within the last five (5) years immediately preceding the opening of bids or proposals, which felony is related in any way to providing the services and/or items referenced in this Bid or to the competency of the individual or the potential awardee to perform under any resulting contract.
- F. That the Bidder has not been excluded from any Procurement and Non-procurement Programs with the government as identified by the U. S. General Service Administration Office of Acquisition Policy.
- G. That the Bidder is aware of, understands, and has the appropriate expertise, certifications, and licenses to address any issues arising during the course of the Work from any laws or regulations that protect the environment or human health and safety.

•	•	ght to reject any and all bids has been reserved by a period of sixty (60) days from the opening there				
Dated this	day of					
(Corporate Seal)		(Name of Bidder)				
ATTESTED:		(Address of Bidder)				
(Notary)		(Signature of Authorized Officer and Title)				

SECTION 00430 BID FORM SUPPLEMENTS – BONDS

LABOR AND MATERIAL PAYMENT BOND

Raytown Quality Schools Asbestos Abatement 2022

School(s): KNOW ALL PERSONS BY THESE PRESENTS: That we _____ as the Contractor and principal , and _______, a corporation organized under the laws of the State of_____ authorized to transact business in the State of Missouri, as surety, are held and firmly bound unto the Raytown Quality Schools in the penal sum of _____) lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, and our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents. THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT: WHEREAS, the said Contractor has on the _____ day of _____, 20____,entered into an Agreement with Raytown Quality Schools a copy of which is attached hereto and incorporated herein for furnishing tools, equipment, materials transportation and supplies, performing all labor, and performing asbestos abatement and demolition as described in the Agreement and the Contract Documents, all in accordance with Provisions, Specifications, Plans and Contract Documents on file in the office of NOW THEREFORE, if the Contractor or the subcontractors of the Contractor shall pay all indebtedness incurred for supplies, materials, transportation or labor furnished, or equipment used or consumed in connection with or in or about the project described in the above-mentioned Contract Documents, then this obligations shall be void; otherwise, it shall remain in full force and effect. The said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alterations or addition to the terms of the Agreement and the Contract Documents to the work to be performed thereunder, or the Plans and Specifications accompanying the same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Agreement, Contract Documents or to the Plans and Specifications. Provided, that it is expressly agreed that this bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Agreement not increasing the contract

price more that 50%, so as to bind the Contractor and Suety to the full and faithful performance of the Agreement as amended. The term "amendment," wherever used in this bond and whether referring to this bond or the Agreement shall include any alteration, addition, extension or modification of any character whatsoever.

20 .

			Contractor/Principal	
ATTEST:				
	By			
	(Seal)			
			Surety Company	
		Ву	Attorney-in-Fact	(Seal)

NOTE:

- 1. A Labor and Material Payment Bond is required only in connection with a Contract which does not exceed one hundred thousand dollars (\$100,000.00).
- 2. Date on bond must not be prior to date of contract.
- 3. If Contractor is partnership, all partners should execute bond.
- 4. Surety companies executing bonds must appear on the Treasury Department's most current list and be authorized to transact business in the State of Missouri.
- 5. Accompany this bond with Attorney-in-Fact's Authority from the surety company certified to include the date of the bond.

PERFORMANCE BOND

Raytown Quality Schools Asbestos Abatement 2022 School(s):

KNOW ALL PERSONS BY THESE PRESENTS: That we the	he undersigned	as the
Contractor and principal, and		
under the laws of the State of		
State of Missouri, as surety, are held and firmly bound unto theDollars (\$	Raytown Quality Schools in the	penal sum of
of America, for the payment of which sum well and truly to	be made, we bind ourselves, a	and our heirs,
executors, administrators, successors, and assigns, jointly and se	everally, firmly by these presents	
THE CONDITION OF THE FOREGOING OBLIGATION IS S		
WHEREAS, the above bonded Contractor has on the	day of, 20_	, executed
a written Agreement with the Raytown Quality Schools for f	furnishing in a good, substantial	workmanlike
manner all labor, tools, equipment, materials transportation	and supplies, for performing a	all labor, and
performing asbestos abatement and demolition as describe in the	•	
in accordance with Provisions, Specifications, Plans and Contra	act Documents for Raytown Qual	lity Schools -
Asbestos Abatement designated and describe in the Agreement a		
to include the General Conditions, Project Special Provision	ns, Specifications, Plans and o	ther Contract
Documents therefor; a copy of the Agreement being attached he	ereto and made a part hereof.	

NOW THEREFORE, if said Contractor shall particulars promptly and faithfully perform each and every covenant, condition, and part of the Agreement, and the General Conditions, Project Special Provisions, Specifications, Plans and other Contract Documents thereto attached or by reference mad a part thereof, according to the true intend and meaning in each case, upon written acceptance by the Center School District of the improvement herein described in substantial compliance with the Contract Documents and upon the effective date of the substantial completion for the work then this obligation shall be and become null and void.

PROVIDED, that said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the rems of the Agreement or the Work to be performed thereunder or the General Conditions, Project Special Provisions, Specifications, Plans and other Contract Documents accompanying same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Agreement or to the Work or the Specifications, Plans and other Contract Documents.

PROVIDED, FURTHER, that it is expressly agreed that the bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Agreement not increasing the contract price more than fifty percent, so as to bind the Contractor and the Surety to the full and faithful performance of the Agreement so amended. The term "amendment," wherever used in this bond, and whether referring to this bond or the Agreement, shall include any alteration, addition, extension, or modification of any character whatsoever.

Whenever Contractor is declared by the Owner to be in default under the Contract Documents, the Surety may promptly remedy the default or shall within fourteen (14) calendar days from the date of the notice from the Owner:

1. Commence completing the Work of the Agreement in accordance with its terms and conditions. However, Surety may not sue the defaulting Contractor, or any legal reformation of the defaulting

	Contractor	to (complete	the	Work	without	the	written	consent	of	the	Owner	, 01
2.	Commence accordance of the lower and the Own less the bala liable hereu term "balan the Owner to paid by the person or co	with it st and her, and ance of the control of the	s terms are best responded make averaged the Contraction under to Contraction	nd coronsive ailable tract per shall ct Priedler the actor.	nditions, , response e as the vorice incl l not excee," as u e Agreen	and upon sible bidde work programmed and and and and action	deterrer, arraesses er cosmount paragrant and shall	nination bange for a sufficient t and dam set forth aph, shall accrue on	by the Owr n Agreement funds to parages for win the first mean the sthereto, I n this bond	ner an ent be ay the which t para total ess th	the etween e cost of the sugraph amount	surety join such boof complesurety man hereof. Int payabount pro	ointly oidder letion ay be The ole by operly
these p	STIMONY Woresents to be authorized then	execu	ted in its	name,	and its	corporate	seal to	be hereu	ınto affixe	d, by	its at	torney-ii	n-fact
									Contract	or/Pr	incipa	 al	
ATTE	ST:												
						By							
Secreta	ary				(Sea	11)							
									Surety (Comp	any		
						F	3y					((Seal)
								At	ttorney-in-	Fact		、	

Contractor, to complete the Work and Surety may not use any of the subcontractors of the defaulting

NOTE:

- 1. Date on bond must not be prior to date of contract.
- 2. If Contractor is partnership, all partners should execute bond.
- 3. Surety companies executing bonds must appear on the Treasury Department's most current list and be authorized to transact business in the **State of Missouri**.
- 4. Accompany this bond with Attorney-in-Fact's Authority from the surety company certified to include the date of the bond.

Contract Forms

SECTION 00520 AGREEMENT FORM

Agreement between the Owner and Contractor

This agreement is made and entered into this day of, 20, by and between Raytown Quality Schools, hereinafter the "Owner, and hereinafter the "Contractor".	the,
The Owner has caused to be prepared, in accordance with the law, Bid Solicitation, Asbestos Project Des Bid Form, General Condition, other Contract Documents, as defined in the General Conditions, for the value herein described, and has approved and adopted these said Contract Documents, which are incorporated this Agreement by reference herein, and has caused to be published, in the manner and for the time require law, an advertisement inviting sealed Bids for providing materials, labor, tools, equipment, and transportancessary for, and in connection with, the project specifications and in accordance with the terms of Agreement; and	work into ed by ation
The Contractor has submitted a sealed Bid to the Owner, in the manner and at the date and time specified response to the advertisement and in accordance with the terms of this Agreement; and	d, in
The Owner, in the manner prescribed by law, has publicly opened, examined and evaluated the Bids submit and as a result of this process has determined and declared the Contractor to be the lowest responsible bid for the abatement as described in the project specifications within the Asbestos Project Design. The Owner awarded a contract to the Contractor that has set forth the terms and conditions in this Agreement for the sun named in the Bid attached to and made a part of this Agreement. To the extent any portion of the attached is inconsistent with or conflicts with this Agreement, this Agreement will control.	dder r has m(s)
Therefore, in consideration of the compensation to be paid to the Contractor, and of the mutual agreem herein contained, the parties hereto have agreed, and hereby agree, the Owner for itself and its successors, the Contractor for itself, himself/herself or themselves, its, his/her or their successors and assigns, or its, his or their executors and administrators, as follows:	, and
ARTICLE I. The Contractor will furnish at its own cost and expense all labor, tools, equipment, materials transportation required to complete the work as designated by the Contract Documents and as outlined Asbestos Project Design Base Bid(s), all together with this Agreement form the Contract, are as fully a part hereof as if repeated verbatim herein; all work to be done in a good substantial workmanlike manner to the entire satisfaction of the Owner, and in accordance with the laws of the State Missouri and the United States of America. All terms used herein shall have the meanings ascribed to the General Conditions unless otherwise specified.	d the and and te of
ARTICLE II. The Owner shall pay to the Contractor for the performance of the work outlined in this Cont and the Contractor will accept in full compensation the sum Dollars (\$	of
covered by and included in the Contract award and designated in Article I. This sum may be adjusted as outl by the unit pricing within the Bid Form. The entire unpaid balance of the Contract Sum shall be made by Owner to the Contractor at completion of the contracted work. Payment shall be made in cash or its equiva	lined y the
ARTICLE III. The Contractor shall commence work upon the date stated in the Bid Solicitation and complete all work covered by this Contract within the dates specified on the Bid Solicitation. According	

liquidated damages (if applicable) shall be assessed against the Contractor in the amount specified within the

General Conditions (Section 00700).

ARTICLE IV. The Contractor shall not subcontract, sell, transfer, assign, or otherwise dispose of the Contract or any portion without previous written consent of the Owner, unless delegations are outlined within the Subcontractor List. No subcontracts, or other transfer of Contract, shall release the Contractor of its liability under the Contract and Bonds (if applicable).

ARTICLE V. Contractor specifically acknowledges and confirms that: (1) it has visited the site, made all inspections it deems appropriate and has read and fully understands the Contract Documents, including all obligations and responsibilities undertaken by it as specified herein and in the other Contract Documents and knowingly accepts same; (2) it has furnished copies of all Contract Documents to its insurance carrier(s) and its surety(ies); and (3) its insurance carrier(s) and surety(ies) agree to be bound as specified herein, the Contract Documents and in the insurance policy(ies) and bonds as to liability and surety coverage (as applicable).

ARTICLE VI. Contractor agrees to indemnify, defend and hold Owner, its board members, administrators, employees and agents harmless from and against liability for any and all claims, demands, costs, penalties, fees (including without limitation, expert witness and attorneys' fees), damages, and liabilities whatsoever for, among other things, bodily injury, death, property damage, personal injury, economic loss and/or products liability asserted by any person or entity, resulting directly or indirectly, in whole or in part, from the acts and/or omissions of Contractor and/or its employees, directors, agents, subcontractors and/or consultants arising from or connected with Contractor's and/or its employees, directors, agents, subcontractors and/or consultants performance under this Agreement. Contractor shall defend such allegations through counsel chosen by the Contractor with the advice and approval of the Owner such approval not to be unreasonably withheld. Contractor's obligations under this paragraph shall survive the expiration or termination of this Agreement for any reason.

ARTICLE VII. Miscellaneous.

Contractor agrees that in the event of any strike, picket, sympathy strike, work stoppage, or other form of labor dispute (collectively "Labor Dispute") in connection with the work of the other contractors, subcontractors, Owner or any other party other than Contractor, the Contractor will continue to perform the Work without interruption or delay, contingent upon Owner providing a picket-free entrance. In the case of a Labor Dispute directed at Contractor, Contractor shall determine its own course of action to ensure continued performance of the Work. In the event Contractor delays or interrupts performance of the Work because of a Labor Dispute, Owner may terminate this Contract after giving forty-eight (48) hours written notice of an intent to do so, or Owner may invoke any of the rights set forth elsewhere in the Contract Documents.

Contractor shall ensure that each worker on the site of the Work is paid the then current prevailing wage, as determined by the State in which the Project is located, if applicable. Not less than the prevailing hourly rate of wages specified under Sections 290.210-290.340 (Mo. Rev. Stat.) and set out in the Wage Determination provided in the Project Manual shall be paid to all workers performing Work under this Contract. Contractor shall provide certified payroll and other documentation required by the Missouri Prevailing Wage Statutes.

Contractor shall furnish both a payment bond which meets all statutory requirements for public works projects (Missouri Revised Statute 107.170) and a performance bond in the full amount of the cost of the Work and such performance bond shall meet any and all requirements set forth in the Construction Documents. Contractor's bonds shall include such provisions as will guarantee faithful performance of the prevailing hourly wage clauses under this Contract. The bonds shall be written on a form and by a surety acceptable to the Owner and the Construction Manager. The surety must be rated A- or better with a treasury rating less than or equal to the face value of the bond.

Pursuant to Missouri Revised Statute 285.530, all business entities awarded any contract in excess of five thousand dollars (\$5,000.00) with a Missouri public school district must, as a condition to the award of any such contract, be enrolled in and participate in a federal work authorization program with respect to the employees working in connection with the contracted services to be provided, to the Owner (to the extent allowed by E-Verify). Accordingly, the Contractor shall affirm that it is enrolled in such a federal work authorization program and shall provide a sworn affidavit to that effect, which affidavit shall also state that the Contractor does not knowingly employ any person who is an unauthorized alien in connection with the services to be provided to the Owner in the form attached as Exhibit F. The Contractor shall also provide such additional documentation as is requested by the Owner to confirm the foregoing.

Contractor shall comply with Missouri Revised Statute 292.675 and provide a ten-hour OSHA construction safety program for on-site employees which includes a course in construction safety and health approved by OSHA or a similar program approved by the Missouri Department of Labor and Industrial Relations which is at least as stringent as an approved OSHA program. All employees are required to complete the program within 60 days of beginning work on such project. Contractor shall forfeit as a penalty to Owner, \$2,500 plus \$100 for each employee employed by Contractor or its subcontractors for each calendar day or portion thereof that any such employee is employed without the required training.

The prevailing party in any legal or alternative dispute resolution proceeding entered into to enforce the terms or provisions of this Contract shall be entitled to recover its reasonable attorneys' fees and/or legal expenses to the extent the party succeeds in such proceeding.

Contractor shall comply with Missouri Revised Statute 161.371 and shall establish and implement a random drug and alcohol testing program which shall be administered by a laboratory duly certified by the U.S. Department of Health and Human Services or similar agency approved by the State of Missouri. Such program will require notification to the employer and employee of the results of any positive drug or alcohol test, Contractor shall immediately take appropriate action with respect to such employee in order to protect the safety of the students, and the Owner shall be notified of the action taken to protect the safety of the students as a result of such positive test result. All costs of the program of screening and testing workers for alcohol and controlled substances, as well as all costs for administration of such drug and alcohol testing program shall be paid by Contractor and not Owner.

Every transient employer as defined in Missouri Revised Statute 285.230 must post in a prominent and easily accessible place at the work site a clearly legible copy of the following: (1) notice of registration for employer withholding issued to such transient employer by the director of revenue; (2) proof of coverage for workers compensation insurance or self-insurance signed by the transient employer and verified by the department of revenue through the records of the division of workers compensation; and (3) the notice of registration for unemployment insurance issued to such transient employer by the division of employment security. Any transient employer failing to comply with these requirements shall be liable for a penalty of \$500 per day until the notices required by this section are posted as required by statute.

ARTICLE VIII. It is agreed between the parties executing this Agreement that the Contract Documents are not intended to create any third party beneficiary relationship and does not authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions in this Agreement. The duties, obligations, and responsibilities of the parties to this Agreement with respect to third parties shall remain as imposed by law.

ARTICLE IX. This Agreement, together with the other Contract Documents, constitutes the entire agreement between the parties and supersedes all prior agreements, whether oral or written, covering the same subject matter. This Agreement may not be modified or amended except as provided herein or in the other Contract Documents.

ARTICLE X. This Agreement is entered into, under the pursuant to, and is to be construed and enforceable in accordance with, the laws of the State of Missouri. Venue for any lawsuit related to or arising out of this Agreement will be in the Circuit Court of Jackson County, Missouri, or the United States District Court for the Western District of Missouri. The parties expressly waive any claims of forum non conveniens.

ARTICLE XI. Should any provisions of this Agreement or the other Contract Documents be determined to be void, invalid, unenforceable or illegal for whatever reason, such provision(s) shall be null and void; provided, however, that the remaining provisions of this Agreement and/or the other Contract Documents shall be unaffected thereby and shall continue to be valid and enforceable.

ARTICLE XII. All notices required under this Agreement shall be sent via U.S. main, first class, postage prepaid, personal delivery, or other nationally recognized courier service to the following.

If to the Owner:	If to the Contractor:
Raytown Quality Schools 5911 Blue Ridge Boulevard Raytown, Missouri 64133	
Contractor has executed the required sub-	be executed on its behalf, thereunto duly authorized, and the said mittals as described within the project documents as outlined in entered by both parties as outlined within this Agreement on the
Raytown Quality Schools	Contractor (As Defined Above)
Owner (Print)	Contractor (Print)
Owner (Sign)	Contractor (Sign)

4	
	Conditions
I	

1

SECTION 00700 - GENERAL CONDITIONS

- 1. "Work" referred to in these documents consists of furnishing all labor, materials and equipment for complete installation of all Work as specified herein and shown on drawings, including: delivery, unloading, uncrating, assembling, setting-in-place, leveling, adjustment, completely installing and cleaning up of any debris."
- 2. Work shall be in strict accordance with Drawings and Specifications. Contractor shall thoroughly investigate all local trade jurisdictional rulings and shall be held completely responsible for settlement of any disputes arising from fabrication, installation, or completion of Work under this Contract.
- 3. Reference to standard specifications of any technical society, organization, or association, or to codes of local or state authorities, shall mean latest standard, code, specification, or tentative specification adopted and published at date of taking bid, unless specifically stated otherwise. Contractor shall notify Owners Representative in writing of any inconsistency found between specifications and drawings. Owners Representative will then advise Contractor on whether specifications will control. Terms "this Contractor", "furnished under other sections", "included as part of other sections", "related Work in other sections" or similar description of segregation shall not be interpreted to limit responsibility of any party involved in Work. Limitations of any Subcontractor's Work shall rest solely upon agreement between Contractor and Subcontractor, regardless of where Work is called for in Contract Documents.
- 4. When Owners Representative's Additional Services are required because of defective Work, neglect, failure, deficiencies, or default by Contractor, Owners Representative's compensation for such services shall be based on Owners Representatives invoice to Owner. Invoice, when approved by Owner, along with other cost, damages and liabilities incurred by Owner or Architect, shall be basis for adjusting Contract Sum, by Change Order, to compensate Owners Representative for Additional Services.
- 5. "If Contractor performs any construction activity knowing it involves a recognized error, inconsistency or omission in Contract Documents without such notice to Owners Representative, Contractor shall thereby assume responsibility for performance and bear attributable correction cost."
- 6. Products are generally specified by ASTM (American Society of Testing Materials) or other referenced standard, and/or by manufacturer's name and model number or trade name. When specified only by reference standard, Contractor may select any product meeting this standard by any manufacturer. When several products or manufacturers are specified as being equally acceptable, Contractor has option of using any product and manufacturer combination listed.
- 7. Contractor shall and does hereby guarantee all Work for a period of two years from Date of Substantial Completion of Work. All movable or adjustable parts shall remain in good working order, including hardware, apparatus, and electrical and all other equipment. Nothing in above intends or implies that this guarantee shall apply where damage occurs due to improper maintenance or operation, or to normal wear and usage.

8. "Average number of calendar days, including weekends and holidays, during which adverse weather should be anticipated for general locale of this project are listed below for each month for year. These are based upon NOAA information and upon data used by U.S. Army Corps of Engineers."

January	February	March	April	May	June	July	August	September	October	November	December
16	11	6	7	7	8	7	5	6	5	3	9

Contractors shall include provision in their bids and construction schedules for no less than this number of calendar days per month during which adverse weather might potentially delay their Work. Contractors shall also keep detailed onsite logs to substantiate the actual weather conditions and site conditions, including temperature, precipitation, snow or ice cover, wind and similar environmental data; and to document the number of personnel onsite, their activities and time periods for those activities; and the specific days and times when adverse weather prevented Work from occurring, and why or how it did.

Should any Contractor feel that their Work was delayed by adverse weather conditions exceeding number of days identified in Subparagraph 8. as normally anticipated for that month, and should they wish to therefore request a time extension to Contract, they shall submit such request in writing to Owners Representative. Such request shall include copies of onsite logs during period in question, as well as any additional data or explanations, which can substantiate this request.

To be eligible for a time extension to Contract due to adverse weather, Contractor must have been prevented from Working for 50% or more of Contractor's scheduled Work effort for that day, and Work delayed must be on critical path of Contractor's Construction Schedule.

Requests for time extensions and Work of separate Contractors will be considered independently, since a delay to one may or may not affect others. A time extension to one separate Contractor does not imply that a similar time extension will also be granted to other separate Contractors; although requests will be considered from a Contractor not directly delayed by adverse weather who can substantiate that delayed Work of another Contractor will affect timely completion of his Work.

Owners Representative shall advise Contractor and Owner in writing of his decision within fifteen days of Contractor's request. Any time extensions, which Architect agrees, are reasonable and appropriate shall be incorporated by Contract Change Order.

- 9. "General Contractor shall assume general coordination and direction of project. Each Contractor shall cooperate with other contractors on Work and install their Work in sequence to facilitate and not delay installations of such other contractors. Owners Representative is neither coordinator nor expeditor of Work of various contracts. Owner will provide for coordination of activities of Owner's forces. Construction progress schedule shall be as described in General Requirements."
- 10. Allowance for combined overhead and profit to be included in total cost to Owner for any of methods for determining adjustments to Contract Sum shall not exceed following schedule:
 - 1. For Contractor, for Work performed by Contractor's own forces, 10% of cost
 - 2. For Contractor, for Work performed by Contractor's Subcontractor, 5% of amount due Subcontractor
 - 3. For each Subcontractor's or Sub-subcontractors' own forces, 10 % of cost
 - 4. Cost to which overhead and profit is to be applied shall be determined by Owner and Owners Representative.

- 5. In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Subcontracts. Labor and materials shall be itemized in manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also. In no case will a change involving over \$500 be approved without such itemization.
- 11. "The date of approval of award of contract by Board of Education shall be Owner's authorization for Contractor to proceed with procurement of tangible personal property and materials to be incorporated or consumed in Work. Owner's receipt of Contract Bonds and Insurance will constitute (Notice to Proceed with Construction) and will be so indicated in Agreement. Date shall not be postponed by failure to act of Contractor or of persons or entities for which Contractor is responsible." Contractor shall anticipate a delay of up to sixty (60) days for plan review by agency of jurisdiction. No extension of Contract Time will be allowed for this period. Contractor shall pay for all permits including partial permit fees if required.
- 12. "If Contractor is delayed at any time in progress of Work by any act or neglect of Owner or Architect, or by any employee of either, or any separate Contractor employed by Owner, or by changes ordered in Work, or by labor disputes, fire, unusual delay in transportation, unavoidable causalities or causes beyond Contractor's control (not including weather or results of weather), or delay authorized by Owner, or by any cause which Owners Representative determines may justify delay (not including weather or results of weather), then contract Time shall be extended by Change Order for such reasonable time as Architect may determine.
- 13. "All claims for extensions of time shall be made in writing (stating dates and causes) to Architect each month and shall accompany Application for Payment; otherwise, they shall be waived. In case of continuing cause of delay, only one claim is necessary."
- 14. 10% of certified amount completed shall be withheld as retainage. Retainage will not be reduced until project has been approved for final completion and has received final Certificate of Occupancy from local building code officials.
- 15. "Final payment shall be made within thirty (60) days after issue of final Certificate of Payment."
- 16. Certificate of final acceptance of Work shall be obtained prior to release of any retained percentage. A final Certificate of Occupancy shall be obtained from jurisdiction having authority prior to release of any retained percentage.
- 17. Contractor shall provide Owner with a statement under oath certifying that Contractor has paid all subcontractors the sums due and owing to Subcontractors as evidenced by prior Application for Payment. Contractor shall not be entitled to receive any further payments pursuant to Agreement unless and until Contractor is in compliance with terms of this paragraph. Contractor acknowledges right of Owner to advise subcontractors and sub-subcontractors that Owner has made a Progress Payment or has made Final Payment to Contractor.

18. LIQUIDATED DAMAGES: If the Contractor refuses, neglects, or fails to complete the Work within the time stated at each Phase in the Contract, then the Contractor and the Contractor's surety, if any, shall be liable for and shall pay the Owner, as a penalty, the sum indicated below for each calendar day that the Contractor is in default after the time stipulated in the Contract for completing the Work until the Work is Complete. 'The Owner may withhold from payments due the Contractor, such amounts as may be assessed as penalties. Upon Substantial and Final Completion of the Work, the Owner may adjust the Contract Sum by the amount of the assessed penalties. Substantial completion shall be defined as "Completion of all work identified in the Project Manual". Final completion shall be defined as "Completion of all work including items noted at pre-final review".

Location	Available Start Date	Final Completion Date	Liquidated Damages
Central Middle School First Floor	March 28, 2022	April 1, 2022	\$500 / day
Central Middle School Lower Level	May 31, 2022	June 13, 2022	\$500 / day
Southwood Elementary	May 31, 2022	June 13, 2022	\$500 / day
Northwood Elementary	May 31, 2022	June 13, 2022	\$500 / day
Laurel Hills Elementary	May 31, 2022	June 13, 2022	\$500 / day
Spring Valley Elementary	May 31, 2022	June 13, 2022	\$500 / day

- 19. When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary, Contractor shall give Owner reasonable advance notice.
- 20. Liability insurance shall include all major divisions of coverage and be on a comprehensive basis including:
 - 1. Premises Operations (including X, C and U coverage as applicable)
 - 2. Independent Contractors' Operations
 - 3. Products and Completed Operations
 - 4. Personal Injury Liability with Employment exclusion deleted
 - 5. Contractual, including specified provision for Contractor's obligation under.
 - 6. Owner, non-owned and hired motor vehicles
 - 7. Broad Form Property Damage including Completed Operations

If General Liability coverage is provided by a Commercial General Liability Policy on a claims-made basis, policy date or Retroactive Date shall predate Contract; termination date of policy or applicable extended reporting period shall be no earlier than termination date of coverage required to be maintained after final payment.

- 21. Insurance required shall be written for not less than the following limits, or greater if required by law:
 - 1. Commercial or Comprehensive General Liability:
 - a) General Aggregate (Commercial General Liability policies): \$2,000,000 (Policy shall be endorsed to state that this amount shall apply, in total, to this project only)
 - b) Products and Completed Operations Aggregate: \$1,000,000
 - c) Personal Injury Aggregate: \$1,000,000
 - d) All types of General Liability Insurance Each Occurrence: \$1,000,000
 - e) Medical Expense Limit, on any one person: \$5,000
 - f) Policy shall be endorsed to state that Property Damage coverage includes explosion (x), collapse (c) and underground (u) hazards

- g) Broad Form Property Damage coverage shall include Completed Operations
- h) General Liability insurance coverage shall include Premises-Operations, Independent Contractors, Broad Form Property Damage and Contractual Liability. (If ACCORD form is used, policy shall be endorsed to state that these coverages are included)
- 2. Automobile Liability:
 - a) Bodily injury (per person): \$1,000,000
 - b) Bodily injury (per accident): \$1,000,000
 - c) Property Damage: \$1,000,000
 - d) Contractor may, at his option, provide Combined Single Limit (CSL) coverage for not less than \$1,000,000 for each occurrence.
 - e) Hazards each occurrence
- 3. Worker's Compensation: Statutory
- 4. Employer's Liability:
 - a) Each Accident: \$100,000
 - b) Disease Policy Limit: \$500,000c) Disease Each Employee: \$100,000
- 22. "If this insurance is written on Comprehensive General Liability policy form, Certificates shall be AIA Document G705, Certificate of Insurance. If this insurance is written on a Commercial General Liability policy form, ACCORD form 25S will be acceptable. Certificates and policies shall indicate Owner and Owners Representative are additional insured parties on from C61020 (11-85 ed). Policy MUST include the following condition: NAME Raytown Quality Schools AS "ADDITIONAL INSURED". Contractor shall include a Waiver of Subrogation on Commercial General Liability and Workers' Compensation in favor of Owner and Owners Representative. Contractors shall require subcontractors to provide and maintain same insurance with same minimum limits.
- 23. All warranties required by Contract Documents shall commence on date of Substantial Completion of Work or designated portions thereof, or for Work first completed after Substantial Completion, on date of its acceptance, unless some other commencement date is specifically referenced elsewhere in contract documents for a specific warranty. Contractor shall be required to secure any extended warranties or special riders to standard warranties, which are required to comply with these requirements.
- 24. Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, or age. Contractor shall take affirmative action to ensure that applicants are employed, and that applicants are treated during employment, without regard to that applicant's race, religion, color, sex, national origin, or age. Such action shall include, but not be limited to, employment, upgrading, demotion, transfer, recruitment advertisement, layoff, termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. Contractor shall post in conspicuous places, available to employees and applicants for employment, notices setting forth requirements of these non-discrimination provisions. Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, national origin, or age.

- 26. If, after notice of termination for failure to fulfill Contract obligations, it is determined that Contractor had not defaulted, termination shall be deemed to have been affected for convenience of Owner, and Contractor shall be paid in accordance. Contractor shall be paid only for value of Work completed and material supplied as of date of termination, and Contractor shall not be entitled to anticipated profits or anticipated overhead upon whole Contract or for other direct or consequential damages arising out of or resulting from Owner's termination.
- 27. REGULATIONS: Contractor shall assume all responsibility and costs in complying with Federal, State and Local regulations for Equal Opportunity Employment, Anti-Discrimination, Safety, and other Regulations.

END OF SECTION 00700

SECTION 00830 - WAGE DETERMINATION SCHEDULE

PART 1 GENERAL

1.1 WAGE DETERMINATION SCHEDULE

- 1.1.1 Missouri Department of Labor and Industrial Relations Division of Labor Standards, Jackson County Annual Wage Order 28 if project does not meet the requirements of Legislation (HB 1729) passed by the Missouri General Assembly and effective since August 28, 2018.
- 1.1.2 Following is a Wage and Hour Section for workers required to perform the Contract, which shall be adhered to as required by the Division of Labor Standards, State of Missouri. On construction projects, Raytown Quality Schools warrants HB 1729 that meets **prevailing wage** in its area.

END OF SECTION 00830

SECTION 00835 - AFFIDAVIT COMPIANCE WITH PREVAILING WAGE

PART 1 - GENERAL

1.1 APPLICABLE FORMS

- 1.1.1 Missouri Department of Labor and Industrial Relations Division of Labor Standards,
 - 1.1.1.1 Following is a Wage and Hour Section for workers required performing the Contract, which shall be adhered to as required by the Division of Labor Standards, State of Missouri.
 - 1.1.1.1.1 Section 048, Jackson County
- 1.1.2 Affidavit Compliance with the Prevailing Wage Law found as Attachment D.
- 1.1.3 Prevailing Wage Law applies to public projects valued at or above \$75,000.
- 1.1.4 Contractor shall file with Owner and Owners Consultant upon completion of the project, prior to final payment, the enclosed affidavit stating they have fully complied with the provisions and requirements of "Prevailing Wage Law" Section.
- 1.1.5 Owners Consultant shall not approve final application for payment until affidavit is filed and is in proper form and order.

END OF SECTION 00835

Division 1
General Requirements

SECTION 01010 – SUMMARY OF WORK

PART 2 GENERAL

1.1 WORK INCLUDES

- 1.1.1 The work is comprised of abatement of asbestos containing floor tile, black mastic, and associated cove base and adhesive. These materials for each Base Bid are outlined by the Raytown Quality Schools Asbestos Scope Table included as Attachment A. Contractor shall verify at the project site, all specified and/or diagramed areas of asbestos abatement work and shall be responsible for complete removal of all non-friable asbestos containing materials as outlined in contracted work areas.
- 1.1.2 If the contractors work plan includes floor tile removal by mechanical methods, then a full enclosure containment as outlined in this project manual will be required.
- 1.1.3 Asbestos pre-renovation surveys were completed by Axiom Service Professionals throughout the areas of planned renovation and can be found as Attachment B.
- 1.1.4 The bid shall include all labor, equipment, materials, transportation, and disposal as necessary for the proper control, cleaning, and removal of asbestos containing materials.
- 1.1.5 Upon issuance of the notice to award and/or contract and/or receipt of written notice to proceed the Contractor shall complete the Work, described by the Owner or his/her representative and this specification, within the agreed upon schedule. The Work includes but is not necessarily limited to:
 - 1.1.5.1 Submitting a project completion schedule to Owner and Owner Representative for their approval.
 - 1.1.5.2 Submitting list or video/photos of existing damage to subject site, surfaces, and equipment or of existing conditions that could be misconstrued as damage resulting from work.
 - 1.1.5.3 Submitting an asbestos abatement work plan to include plan for containment (if required), decon, staging of work, load out, decontamination procedures, etc. If the Contractor chooses to remove floor tile using a machine, full enclosure requirements would be necessary to complete abatement work.
 - 1.1.5.4 Provide temporary barricades and other forms of protection as required to protect the Owner's personnel and general public from injury due to selective abatement work.
 - 1.1.5.5 Provide protective measures as required to provide free and safe passage of Owner's personnel and general public to and from occupied portions of the building i.e. barrier curtains, negative air pressure, etc.

- 1.1.5.6 Provide temporary HEPA filtered air scrubbers capable of providing four airchanges per hour.
- 1.1.5.7 Protect existing finish work, known or exposed, during abatement operations that is to remain in place from damage (i.e. splash curtains, plastic drop cloths, etc.).
- 1.1.5.8 Protect surrounding finishes and floors with suitable coverings when necessary.
- 1.1.5.9 Construct temporary dust proof partitions where required to separate work areas where noisy or extensive dirt, dust, or asbestos abatement operations are performed. Equip partitions with three-way flaps.
- 1.1.5.10 Conduct selective asbestos abatement operations and debris removal in a manner to ensure minimum interference with adjacent occupied or used facilities.
- 1.1.5.11 Do not enclose, block, or otherwise obstruct streets, walks, or other occupied or used facilities without written permission from appropriate authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- 1.1.5.12 Maintain existing utilities indicated to remain, keep in service, and protect against damage during demolition operations.
- 1.1.5.13 Use water sprinkling, temporary enclosures, and other suitable methods to limit dust rising and scattering in the air to the lowest practical level. Comply with governing regulations pertaining to environmental protection. Do not sure water when it may create hazardous or objectionable conditions, such as ice, flooding, pollution.
- 1.1.5.14Obtaining necessary permits to conduct asbestos abatement from all applicable local, state, and federal authorities.
- 1.1.5.15Mobilization of workers and equipment to and from the work site.
- 1.1.5.16Installing measures as necessary to ensure a safe work site.
- 1.1.5.17 Any required demolition shall be done by wet methods to minimize visible emissions.
- 1.1.5.18Removal and proper disposal of asbestos containing materials and materials such as asbestos floor tile and black mastic.
- 1.1.5.19Removal of barriers and post-removal cleaning.
- 1.1.5.20Contractor's supervisors, laborers and subcontractors working on site are required to be properly licensed, insured, permitted, qualified, trained, to perform the work prescribed herein.

2.1 CONTRACTOR'S DUTIES

2.1.1 The Contractor is responsible for verifying quantities and site conditions prior to bidding the project. The Contractor shall inform himself of the conditions for the project and is responsible for verifying the quantities and location of all work to be performed as outlined in this section, project manual, and attachments. Failure to do so shall not relieve the Contractor of his obligation to furnish all materials and labor necessary to carry out the provisions of the follows:

- 2.1.1.1 Removal and proper disposal of asbestos containing materials and associated materials such as asbestos floor tile, mastic, and associated cove base and adhesive.
- 2.1.1.2 All required demolition shall be done by wet methods to minimize visible emissions.
- 2.1.1.3 Cleaning all abatement work areas and disposing of materials removed as asbestos-contaminated waste in accordance with regulations and these specifications.
- 2.1.2 Provide and pay for labor, materials, equipment, tools, construction equipment, machinery, and other facilities and services for proper execution and completion of work.
- 2.1.3 Pay legally required consumer, payroll, privilege, and other taxes.
- 2.1.4 Comply with all applicable federal, state, and local laws regarding job discrimination.
- 2.1.5 Use of EPA & Missouri trained and licensed asbestos workers with at least one competently trained and licensed supervisor.
- 2.1.6 Enforce strict discipline and good order among employees. Employ on the project only skilled persons in the assigned task.
- 2.1.7 Secure and pay for, as necessary for proper execution and completion of work and as applicable at the time of bids:
 - 2.1.7.1 Permits/Notifications
 - 2.1.7.2 Government Fees
 - 2.1.7.3 Licenses
 - 2.1.7.4 Waste disposal permits and costs
- 2.1.8 Give required notices.
- 2.1.9 All work under this contract shall comply with codes, ordinance, rules, regulations, orders and other legal requirements of public authorities (including EPA, NESHAPS, State of Missouri, and OSHA regulations) which bear on performance work. Where conflicts occur between these specifications and/or the abovementioned regulations, the more stringent shall govern.
- 2.1.10 If the Contractor observes that any of the Contract Documents are at variance therewith in any respect, he shall promptly notify the Owner and the consulting firm verbally and in writing, and any necessary changes shall be accomplished by appropriate modifications. It is the Contractor's responsibility to make certain that

the Contract Documents are in accordance with applicable laws, statutes, building codes and regulations. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner and the consultant, the Contractor shall assume full responsibility therefore and shall bear all cost attributable thereto.

- 2.1.11 If the Contractor discovers previously unknown asbestos contamination or suspect asbestos containing materials that have not been previously tested, the contractor shall immediately cease work and notify the Owner and consultant of the findings.
- 2.1.12 The use of the best available technology, procedures, and methods for preparation, execution, cleanup, disposal, and safety are absolutely required. This compliance is the sole responsibility of the abatement contractor.
- 2.1.13 Assume responsibility for the proper and safe execution of the work.
- 2.1.14 The owner or their representative may request prior to an award decision, and shall be provided, bidder's applicable licensing, all notice of violations administered by federal, state, or local regulatory agencies, a written Work Plan to include a plan for containment, decon, staging, load out, decontamination procedures, a list of chemicals used (i.e. mastic removers, encapsulants, etc.), Material Safety Data Sheets (MSDS). The work plan must be approved by the Owner prior to commencement of work.
- 2.1.15 Obtaining approval for waste disposal in compliance with EPA Regulation Section 61.25 and Missouri Regulations. Legally dispose of asbestos containing materials. Posting of EPA and OSHA regulations at the job site is required.
- 2.1.16 Work shall comply with all Federal, State, County and Municipal laws, codes, ordinances and regulations applicable to the Work in this contract and shall comply with all requirements of the National Fire Protection Association. If there is a discrepancy between laws, codes, ordinances, and regulations, the strictest will be implemented.
- 2.1.17 Meeting all air quality standards: Clearance and/or daily air samples collected for TEM and/or PCM analysis shall meet EPA AHERA, EPA NESHAPS, State of Missouri, and OSHA protocols for response action completion.
- 2.1.18 At the conclusion of the project, the contractor shall provide a final closeout report to include licensing, notifications, insurance certificate, daily work logs, sign-in logs, OSHA air monitoring, and waste manifests.
- 2.1.19 Providing documentation satisfying EPA, OSHA, and project appropriate State and Local Entities of job completion and closeout requirements.

- 2.1.20 Providing copies of all permits, notifications, licenses, and any other requested paperwork to the Owner.
- 2.1.21 The work covered by this project manual is in conjunction with the Missouri prevailing wage law.

3.1 WORK BY OWNER

3.1.1 The owner may award other contracts for work that coincides with the asbestos abatement. Strict coordination of all abatement activities is required and must be coordinated with the owner or their representative.

4.1 CONTRACTOR USE OF SITE AND PREMISES

- 4.1.1 Confine operations at the site to work areas described and permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed.
- 4.1.2 Utility outages or shutdowns are not permitted without prior authorization from the Owner or his representative.

5.1 EXISTING CONDITIONS

- 5.1.1 The Owner assumes no responsibility for the actual condition of items or structure to be demolished.
- 5.1.2 The Owner will maintain conditions existing at the time of commencement of Contract as feasible. However, variations within structures may occur by Owner's removal and salvage operations prior to the start of selective demolition work.
- 5.1.3 Bidders shall not later request, nor expect to receive, additional payment for work related to variations which can be determined by examination of the existing building and site by the date set for receipt of Bids for this Contract.
- 5.1.4 This building has materials that have been identified to contain asbestos. Limited asbestos inspection reports related to this project are available and provided as attachments which specify the locations of known asbestos containing building materials and materials assumed to contain asbestos. If suspect materials are encountered that will be impacted during the course of this project, the contractor shall immediately notify the Owner and consultant. The Owner or consultant at that time will either produce additional asbestos inspection documentation, assume the suspect material to be asbestos containing, or sample the suspect material to determine asbestos content.

6.1 FUTURE WORK

6.1.1 Contractor shall conduct asbestos abatement work and associated demolition as carefully as possible to prevent unnecessary damage to the structure and building components. Following this work, reconstruction crews, hired by others, will be onsite to perform build-back.

7.1 WORK SEQUENCE

- 7.1.1 A notice to proceed will be issued to the successful bidder by the Owner. An environmental consultant (Axiom Service Professionals) will be provided by the Owner at no cost to the Contractor to serve as the owner's asbestos representative providing asbestos sampling throughout the project (area and clearance air sampling and any required bulk sampling), daily contractor oversight, and serve as a liaison between the owner and abatement contractor. ASP shall be notified a minimum of ten (10) days prior to starting the project.
- 7.1.2 The Contractor and all Subcontractors shall furnish enough work force and equipment as may be required to ensure the prosecution of the work in accordance with the mutually agreed upon completion schedule. Failure to complete the work within this time frame may result in the termination of the contract and/or liquidated damages.
- 7.1.3 The Contractor should anticipate possible downtime and maintain flexibility in their work schedule to allow uninterrupted operations.
- 7.1.4 If in the opinion of the Owner, the Contractor falls behind the mutually agreed upon completion schedule, the Contractor shall take such steps as may be necessary to improve the progress and the Owner may require him to increase the number of shifts, and/or overtime operations, days of work including holidays, Saturdays and Sundays, all without additional costs to the Owner.

8.1 SALVAGE

- 8.1.1 All existing structures and their contents present on the date of the Notice to Proceed shall become the property of the Contractor, who shall be responsible for the proper removal and disposal of items thereof. All removal work on the site must be performed by the Contactor or his approved subcontractors. No other individuals or firms shall be permitted to access the site for the purpose of removing or salvaging materials. The Contractor shall not be permitted to use the project site for the purposes of selling, exhibiting, or auctioning of any salvaged materials from the property.
- 8.1.2 Items indicated to be removed but salvageable value to the Owner may be removed from the structure as work progresses. Transport salvaged items from the site as they are removed.
- 8.1.3 Storage or sale of removed items on site will not be permitted.
- 8.1.4 Owner and Consultant will not be held responsible for any materials salvaged and/or recycled from the site.

PART 2 - PRODUCTS (Not Applicable)

SECTION 01040 – COORDINATION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

1.1.1. General provisions of the Contract, including General and Supplementary Conditions, Bid Form, and other Division 1 Specification Sections, apply to this Section.

1.2. SUMMARY

- 1.2.1. This Section includes administrative and supervisory requirements necessary for coordinating construction operations including, but not necessarily limited to, the following:
 - 1.2.1.1. Coordination with other contracts let by the Owner in connection with this work.

1.3. COORDINATION

- 1.3.1. Coordinate construction operations for this project with the Owner or their representative and facility personnel to assure efficient and orderly completion of the Work.
 - 1.3.1.1. Coordinate construction operations to accommodate construction operations of other contracts let by the Owner.
- 1.3.2. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.

1.4 SUBMITTALS

1.4.1 Schedule: If requested provide a schedule which coordinates the construction activities of this work with the work of other contracts. At the time of award, the contractor must provide an updated completion schedule.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 GENERAL COORDINATION PROVISIONS

3.1.1 A pre-construction conference may be held prior to beginning of construction. The date, time, and exact place of this meeting will be determined after contract award and notification of all interested parties. The Contractor shall arrange to have the job superintendent and any prime subcontractors present at the meeting. During the pre-construction conference, the construction procedures and information necessary for submitting payment requests will be discussed and materials distributed, along with any other pertinent information.

3.2 SPECIFIC COORDINATION PROVISIONS

- 3.2.1 Coordinate with third party air monitoring firm/environmental consultant provided by the Owner.
- 3.2.2 Perform abatement work as required to accommodate demolition and reconstruction. Understand that demolition and reconstruction will be taking place throughout the abatement. Prepare containments and alter work as necessary to accommodate demo and reconstruction to take place immediately following completion of phased abatement and in close proximity to active abatement work areas.

SECTION 01095 – CODES, REGULATIONS, AND STANDARDS

PART 1 - GENERAL

1.1 SUMMARY

- 1.1.1. 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.
- 1.1.2. Requirements include adherence to work practices and procedures set forth in applicable codes, regulations and standards.
- 1.1.3. Requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with codes, regulations, and standards.

1.2 CODES AND REGULATIONS

- 1.2.1 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.
- 1.2.2 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. It is not the function of the Owner or Owner's Representative to specify all of the means by which the Contractor will obtain the intended results nor to state all of the environmental conditions that must be present for the safety of workmen who are employed to produce the intended results, or for the safety of others during construction. The Contractor shall establish means and environmental conditions that meet applicable laws and regulations. The Owner will not attempt to enforce such laws and regulations; however, Owner, Owner's Representative, or Consultant have the authority to stop asbestos abatement work when conditions are not in compliance with the specifications or applicable federal, state and local regulations. Safety of the project area for the protection of the Contractors, Owner, Consultants, and the General Public is the responsibility of the Contractor. The Contractor shall hold the Owner 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 sub-contractors.
- 1.2.3 Federal Requirements which govern asbestos abatement work or hauling, and disposal of asbestos waste materials include but are not limited to the following:
 - 1.2.3.1 OSHA: U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:
 - 1.2.3.1.1 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
 - 1.2.3.1.2. Respiratory Protection
 Title 29, Part 1910, Section 134 of the
 Code of Federal Regulations
 - 1.2.3.1.3. Construction Industry
 Title 29, Part 1926, of the
 Code of Federal Regulations
 - 1.2.3.1.4. Access to Employee Exposure and Medical Records
 Title 29, Part 1910, Section 2 of the
 Code of Federal Regulations
 - 1.2.3.1.5. Hazard Communication Title 29, Part 1910, Section 1200 of the Code of Federal Regulations
 - 1.2.3.1.6. Specifications for Accident Prevention Signs and Tags Title 29, Part 1910, Section 145 of the Code of Federal Regulations
 - 1.2.3.2. DOT: U.S. Department of Transportation, including but not limited to:
 - 1.2.3.2.1. Hazardous Substances
 Title 29, Part 171 and 172 of the
 Code of Federal Regulations

- 1.2.3.3. EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:
 - 1.2.3.3.1. 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
 - 1.2.3.3.2. Training Requirements of (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Sub-part E, Appendix C of the Code of Federal Regulations
 - 1.2.3.3.3. 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
- 1.2.3.4. State and Local Requirements that govern asbestos abatement work or hauling and disposal of asbestos waste materials are included in the requirements of this specification and are delineated as the responsibility of the Contractor to assure compliance.

1.3 STANDARDS

- 1.3.1. 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.
- 1.3.2. 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 Consultant harmless for failure to comply with any applicable standard on the part of himself, his employees, or his sub-contractors.
- 1.3.3. Standards: Which apply to asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:
 - 1.3.3.1.1. American National Standards Institute (ANSI)
 1430 Broadway
 New York, New York 10018
 212/354-3300
 Fundamentals, Governing the Design and C

Fundamentals Governing the Design and Operation of Local Exhaust Systems Publication Z9.2-79 & Practices for Respiratory Protection Publication ANSI/ASSE Z88.2-2015

1.3.3.1.2. 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 ASTM Practice E 849-82

1.3.3.1.3. Occupational Health & Safety Administration

200 Constitution Ave., NW,

Washington, DC 20210

800-321-6742 (OSHA)

1926-1101: Asbestos Standard for Construction --Building and Construction Trades Department.

1.3.3.1.4. AIA Service Corporation

"Guide" Specification - 02080 Asbestos Removal AIA Service

Corporation

1735 New York Avenue NW

Washington, DC

1.3.3.1.5. General Services Administration

Asbestos Control Program

NBSIR 87-2688

Guidelines for Assessment and Abatement of Asbestos-Containing

Material in Buildings, May 1983

1.3.3.1.6. U.S. Department of Commerce

National Bureau of Standards

National Engineering Lab

Center for Building Technology

1.4 EPA GUIDANCE DOCUMENTS

- 1.4.1. EPA Guidance Documents discuss asbestos abatement work or hauling and disposal of asbestos waste materials listed below for the Contractor's information only. These documents do not describe the work and are not a part of the work of this contract. EPA maintains an information number (800) 334-8571, publications can be ordered from (800) 424-9065 (554-1404 in Washington, DC):
- 1.4.2. Asbestos-Containing Materials in School Buildings A Guidance Document. Part 1 & 2. (Orange Books) EPA C00090 (out of print)
- 1.4.3. Guidance for Controlling Asbestos-Containing Materials in Buildings (purple Book) EPA 560/5-85-024

- 1.4.4. Friable Asbestos-Containing Materials in Schools: Identification and Notification Rule (40 CFR Part 763)
- 1.4.5. Evaluation of the EPA Asbestos-in-Schools Identification and Notification Rule. EPA 560/5-84-005.
- 1.4.6. Asbestos in Buildings: National Survey of Asbestos-Containing Friable Materials. EPA 560/5-84-006.
- 1.4.7. Asbestos in Buildings: Guidance for Service and Maintenance Personnel. EPA 560/5-85-018.
- 1.4.8. Asbestos Waste Management Guidance. EPA 530-SW-85-007.
- 1.4.9. Asbestos Fact Book. EPA Office of Public Affairs. Asbestos in Buildings. Simplified Sampling Scheme for Friable Surfacing Materials.
- 1.4.10. Commercial Laboratories with Polarized Light Microscopy Capabilities for Bulk Asbestos Identification.
- 1.4.11. A Guide to Respiratory Protection for the Asbestos Abatement Industry. EPA 560-OPTS-86-001.

1.5 NOTICES:

1.5.1 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:

Asbestos NESHAPS Contact Air & Waste Management Division USEPA 11201 Renner Blvd. Lenexa, KS 66219 913/551-7003

- 1.5.1.1 Notification shall include:
 - 1.5.1.1.1 The name and address of owner or operator.
 - 1.5.1.1.2 Description of the facility being demolished or renovated, including the size, age, and prior use of the facility.

- 1.5.1.1.3 Estimate of the approximate amount of friable and non-friable asbestos material present in the facility in terms of linear, square or cubic feet.
- 1.5.1.1.4 Location of the facility being demolished or renovated.
- 1.5.1.1.5 Scheduled starting and completion dates of demolition or renovation.
- 1.5.1.1.6 Nature of planned demolition or renovation and method(s) to be used.
- 1.5.1.1.7 Procedures to be used to comply with the requirements of USEPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR 61 Subpart M).
- 1.5.1.9.1. Name and location of the waste disposal site where the friable asbestos waste material will be deposited.

1.6 STATE AND LOCAL AGENCIES

1.6.1 Send written notification as required by MDNR and/or any local governing agencies at least 10 working days prior to beginning any work on asbestos-containing materials. Send written notification to the following address:

Missouri Department of Natural Resources APCP, Asbestos PO Box 176 Jefferson City, MO

1.7 PERMITS

1.7.1 Permit: All asbestos-containing waste is to be transported by an entity maintaining a current "Industrial waste hauler permit" specifically for asbestos-containing materials, as required for transporting of waste asbestos-containing materials to a disposal site.

1.8 LICENSES

1.8.1 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.

1.9 POSTING AND FILING OF REGULATIONS

1.9.1 Posting and Filing of Regulations: Post all notices required by applicable federal, state and local regulations. Maintain two (2) copies of applicable federal, state and local regulations and standard. Maintain one copy of each at job site. Keep on file in Contractor's office one copy of each.

1.10 SUBMITTALS

1.10.1 Before Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals are returned with Owner's action stamp indicating that the submittal is returned for unrestricted use or final-but-restricted use:

Permits, Licenses, and Certificates: For the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the Work including:

- 1.10.1.1 State and Local Regulations: Submit copies of codes and regulations applicable to the work.
- 1.10.1.2 Permits: Submit copies of current valid permits required by state and local regulations.
- 1.10.1.3 Licenses: Submit copies of all state and local licenses and permits necessary to carry out the work of this contract

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

SECTION 01300 – SUBMITTALS

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

1.1.1. General provisions of the Contract, including General and Supplementary Conditions and other Specification Sections, apply to this Section.

1.2. SUMMARY

- 1.2.1. This Section includes administrative and procedural requirements for submittals required **prior to the beginning of work, and upon submission of bid to be included in the bidding process 1.2.1.1. through 1.2.1.9.** The remianing submittles are required prior to perfomance of the Work. These submittals include but are not limited to:
 - 1.2.1.1. List of SubContractors
 - 1.2.1.2. Unit Pricing Form
 - 1.2.1.3. Affidavit of Compliance with Prevailing Wage Laws
 - 1.2.1.4. E-Verify Affidavit
 - 1.2.1.5. OSHA 10 Training Affidavit
 - 1.2.1.6. Drug and Alcohol Testing Program Affidavit
 - 1.2.1.7. Missouri Service Disabled Vetran Business Preference (if applicable)
 - 1.2.1.8. Construction Progress Schedule
 - 1.2.1.9. Asbestos Abatement Work Plan to include plan for containment, decon, staging, load out, content movement and management.
 - 1.2.1.10. Insurance Certificates
 - 1.2.1.11. Safety Orientation & Acknowledgement form from each worker
 - 1.2.1.12. Daily Safety Meeting Agenda & Attendance Forms
 - 1.2.1.13. Applications for Payment
 - 1.2.1.14. Final Receipt of Payment and Release Forms
 - 1.2.1.15. Certification of Substantial Completion
 - 1.2.1.16. Notification, Permits
 - 1.2.1.17. Worker & Company Asbestos Certificates
 - 1.2.1.18. Asbestos Medical Exams & Fit Tests
 - 1.2.1.19. Demolition Notifications & Permits
 - 1.2.1.20. Final Report including Daily Activity Reports, OSHA Air Monitoring, Certificates and Licensing, Containment Logs, Notifications, and Waste Manifests.

1.3. SUBMITTAL PROCEDURES

1.1.1 The procedures shall comply with the General and Supplementary Conditions and other applicable sections of the Contract Documents. The Contractor shall submit, with such promptness as to cause no delay in his work or in that of any other contractors, all required submittals indicated in this section and elsewhere in the Contract Documents. Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.

- 1.1.1.1 Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination.
- 1.1.1.2 The Designer reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.

PART 2 - PRODUCTS (Not Applicable)

SECTION 01500 – CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES:

- 1.1.1. Temporary Utilities: Electricity, water, lighting, and ventilation.
- 1.1.2. Temporary Controls: Barriers, enclosures, protection of the Work.
- 1.1.3. Construction Facilities: Parking, progress cleaning, and project signage.

1.2 TEMPORARY ELECTRICITY

- 1.2.1 Owner's permanent convenience receptacles may be utilized where available during asbestos abatement. However, if the use of generators is needed to complete the asbestos abatement, the abatement contractor will be expected to provide said generators and any costs shall be included in the abatement contractor's base bid.
- 1.2.2 If using owner's permanent convenience receptacles, power consumption shall not disrupt Owner's need for continuous service. Any disruption of service shall be made only upon 48-hour prior notice to the Owner and all such disruptions shall be held to a minimum.
- 1.2.3 Exercise measures to conserve energy.

1.3 TEMPORARY LIGHTING

1.3.1 Owner's permanently installed lighting may be utilized where available during asbestos abatement. However, if temporary lighting is needed, the abatement contractor will be expected to provide temporary lighting as necessary to complete the asbestos abatement. All costs associated with providing temporary lighting shall be included in the abatement contractor's base bid.

1.4 TEMPORARY VENTILATION

- 1.4.1 Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
- 1.4.2 Provide HEPA filtered ventilation equipment as required to maintain air as specified in Section 02071.

1.5 BARRIERS

1.5.1 Provide barriers and signage to prevent unauthorized entry to asbestos abatement areas. Allow for Owner's use of site and protect existing facilities and adjacent properties from damage from construction operations and demolition.

1.6 INTERIOR ENCLOSURES

1.6.1 Provide and maintain temporary contamination barriers using partitions and ceilings as required to separate work areas from Owner occupied areas as specified in Section 02071.

1.7 SECURITY

- 1.7.1 Owner assumes no responsibility for the security of contractor's equipment, materials, vehicles, etc.
- 1.7.2 Contractor shall coordinate with Owner's security program. Maintain all existing security systems during the contract period. Repair or replace all systems, wiring and equipment damaged by construction activities.

1.8 PARKING

1.8.1. Arrange for temporary parking areas to accommodate construction personnel. Owner assumes no responsibility for temporary parking.

1.9 PROGRESS CLEANING

- 1.9.1 Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly fashion.
- 1.9.2 Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- 1.9.3 Preclean identified asbestos contaminated work areas using HEPA vacuums prior to commencement of abatement as specified in Section 02071.
- 1.9.4 Remove waste materials, debris, and rubbish from site and dispose off-site as specified in Section 02071.
- 1.9.5 Paved driveways on Owner's property and public streets and thoroughfares shall be kept clean, by cleaning daily or more often if necessary, of earth and debris spillage from vehicles involved in the construction operations.

1.10 SIGNS

1.10.1 No signs are allowed except those required by law/ordinances, for safety, traffic control and protection of persons and property. Signs shall meet the requirements of all applicable ordinances, rules and regulations.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

SECTION 01560 – WORKER PROTECTION

PART 1 GENERAL

1.1 DESCRIPTION OF WORK

- 1.1.1 This section describes the equipment and procedures required for protecting workers against asbestos contamination and other workplace hazards except for respiratory protection.
- 1.1.2 Prior to commencement or work, the workers shall be instructed and shall be knowledgeable on the hazards of asbestos exposure, use and fitting of respirators, protective clothing, decontamination procedures, and all aspects of asbestos work procedures. Workers shall have medical examinations.
- 1.1.3 The Contractor is solely responsible for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard for each phase of operation.
- 1.1.4 Provide authorized visitors with suitable protective clothing, headgear, footwear, and gloves as described above whenever they are required to enter the regulated area.

1.2 RELATED SECTIONS

1.2.1 Section 01565 - Respiratory Protection

1.3 WORKER TRAINING

- 1.3.1 State and Local License: All workers are to be trained, certified and accredited as required by state or local code or regulation.
- 1.3.2 AHERA Accreditation: All workers are to be accredited as Abatement Workers as required by AHERA regulation 40 CFR 763 Appendix C to Subpart E, April 30, 1987.
- 1.3.3 Train, in accordance with OSHA 29 CFR 1926. 1101, all workers in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures.

1.4 MEDICAL EXAMINATIONS

1.4.1 Provide medical examinations for all workers who may encounter an airborne fiber level of 0.1 f/cc or greater for an 8-hour Time Weighted Average. In the absence of specific airborne fiber data provide medical examinations for all workers who will enter the Work Area for any reason. Examination shall at a minimum meet OSHA requirements as set forth in 29 CFR 1926. In addition, provide an evaluation of the individual's ability to work in environments capable of producing heat stress in the worker.

1.5 SUBMITTALS

- 1.5.1 Before Start of Work: Submit the following for the Owner to review. Do not start work until these submittals are returned with The Owner's action indicating that the submittal is returned for unrestricted use.
- 1.5.2 State and Local License: Submit evidence that all workers have been trained, certified and accredited as required by state or local code or regulation.
- 1.5.3 Report from Medical Examination: Conducted within last 12 months as part of compliance with OSHA medical surveillance requirements for each worker who is to enter the Work Area. Submit, at a minimum, for each worker the following:
 - 1.5.3.1 Name and Valid Identification
 - 1.5.3.2 Physicians Written Opinion from examining physician including at a minimum the following:
 - 1.5.3.2.1 Whether worker has any detected medical conditions that would place the worker at an increased risk of material health impairment from exposure to asbestos.
 - 1.5.3.2.2 Any recommended limitations on the worker or on the use of personal protective equipment such as respirators.
 - 1.5.3.2.3 Statement that worker is able to wear and use the type of respiratory protection proposed for the project.
- 1.5.4 Notarized Certifications: Submit certification signed by an officer of the abatement contracting firm and notarized that exposure measurements, medical surveillance, and worker training records are being kept in conformance with 29 CFR 1926.

PART 2 - EQUIPMENT

2.1 PROTECTIVE CLOTHING

- 2.1.1 Coveralls: Provide disposable full-body coveralls and disposable head covers and require that they be worn by all workers in the Work Area. Provide a sufficient number for all required changes, for all workers in the Work Area.
- 2.1.2 Boots: Provide steel toe work boots with non-skid soles, and where required by OSHA, foot protection, for all workers. Provide boots at no cost to workers. Do not allow boots to be removed from the Work Area for any reason, after being contaminated with asbestos-containing material.
- 2.1.3 Hard Hats: Provide head protection (hard hats) as required by OSHA for all workers. Label hats with same warning labels as used on disposal bags. Require hard hats to be worn at all times that work is in progress that may potentially cause head injury. Provide hard hats of type with plastic strap type suspension. Require hats to remain in the Work Area throughout the work. Thoroughly clean, decontaminate and bag hats before removing them from Work Area at the end of the work.
- 2.1.4 Safety Glasses/Goggles: Provide eye protection as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury. Thoroughly clean, decontaminate and bag eye protection before removing them from Work Area at the end of the work.
- 2.1.4 Gloves: Provide work gloves to all workers and require that they be worn at all times in the Work Area. Do not remove gloves from Work Area and dispose of as asbestoscontaminated waste at the end of the work.

PART 3 - EXECUTION

3.1 GENERAL

- 3.1.1 Provide worker protection as required by the most stringent OSHA and/or EPA standards applicable to the work. The following procedures are minimums to be adhered to regardless of fiber count in the Work Area.
- 3.1.4 Each time Work Area is entered remove all street clothes in the Changing Room of the Personnel Decontamination Unit and put on new disposable coverall, new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots. Reusable type protective clothing and footwear intended for reuse shall be left in the Equipment Room until the end of the asbestos abatement work at which time such items shall be disposed of as contaminated waste.
- 3.1.5 Provide authorized visitors with suitable protective clothing, headgear, footwear, and gloves as described above whenever they are required to enter the regulated area.

3.2 WORKER PROTECTION - IN CLEAN AND EQUIPMENT ROOMS

- 3.2.1 All workers and authorized personnel, in order to enter the regulated area, shall:
 - 3.2.1.1 Don appropriate protective clothing (coveralls, gloves, boots, etc.) before entering regulated area.
 - 3.2.1.2 Don the appropriate respiratory protection, following all training procedures and manufacturer's instructions. Hood shall be worn over respirator straps.
- 3.2.2 All workers and authorized personnel, in order to exit the regulated area, shall:
 - 3.2.2.1 Remove gross (visible) contamination from themselves and their equipment. Personal protective equipment must be cleaned with a HEPA vacuum before being removed.
 - 3.2.2.2 All equipment and surfaces of containers filled with ACM must be cleaned using HEPA vacuum and wet methods prior to removing them from the regulated area.
- 3.2.3 Within Work Area and Decontamination Area:
 - 3.2.3.1 Remove gross (visible) contamination from themselves and their equipment. Personal protective equipment must be cleaned with a HEPA vacuum before being removed.
 - 3.2.3.2 All equipment and surfaces of containers filled with ACM must be cleaned using HEPA vacuum and wet methods prior to removing them from the regulated area.
 - 3.2.3.3 Require that workers NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area. To eat, chew, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-Work Areas of the building.

SECTION 01565 – RESPIRATORY PROTECTION

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

1.1.1 Instruct and train each worker involved in asbestos abatement or maintenance and repair of friable asbestos-containing materials in proper respiratory use. Require that each worker always wear a respirator, properly fitted on the face in the Work Area from the start of any operation that may cause airborne asbestos fibers until the Work Area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the workplace or as required for other toxic or oxygendeficient situations encountered.

1.2 STANDARDS

- 1.2.1 Except to the extent that more stringent requirements are written directly into the Contract Documents, the following 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 were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards meet the more stringent requirement.
 - 1.2.1.1 OSHA U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910.1001, 1910.134, 1926.1101, and 1926.103.
 - 1.2.1.2 CGA Compressed Gas Association, Inc., New York, Pamphlet G-7, "Compressed Air for Human Respiration", and Specification G-7.1 "Commodity Specification for Air".
 - 1.2.1.3 ANSI American National Standard Practices for Respiratory Protection, ANSI Z88.2-2015.
 - 1.2.1.4 NIOSH National Institute for Occupational Safety & Health

1.3 RESPIRATOR FIT TEST RECORDS FOR ALL SUPERVISORS AND WORKERS

- 1.3.1 The Contractor is solely responsible for enforcing personnel protection requirements and these specifications provide only a minimum acceptable standard for each phase of operation.
- 1.3.2 Respiratory Protection Program: Submit Contractor's written respiratory protection program manual as required by OSHA 1926.1101, 1926.103, and 1910.134.

PART 2 - EQUIPMENT

2.1 RESPIRATOR REQUIREMENTS

- 2.1.1. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and accepted by OSHA.
- 2.1.1 Air supply for Type "C" shall be, at minimum, grade "D" in compliance with OSHA 1926.103 and 1910.134. The Contractor shall provide sampling and testing of air in the presence of the Consultant when requested to do so.
 - 2.1.1.1. Type "C" respirators shall be pressure demand with full face piece with a minimum protection factor of 1,000. The air supply shall be a positive pressure, externally supplied, compressed air system, incorporating enough high-pressure automatic air storage within an ASME certified air "bank" to provide each individual on line in the regulated area with sufficient air supply for decontamination in the event of a system failure. For this project, approved air systems are:

"PAPS 3" American Bristol Harbor City, California 90710 1-213-534-598

"Hazard Master"
Control Resource Systems, Inc.
670 Mariner Drive
Michigan City, Indiana 46360
1-219-872-5591

Or approved equal

- 2.1.2. The compressed air system for removal workers shall incorporate a compressor failure alarm, high-temperature alarm, a continuous carbon-monoxide monitoring device, and in-line purifying sorbet beds and filters to deliver air free of water, oil, odors, vapors, and particulate. Contractor shall comply with all applicable codes and regulations that apply to the operation of such system.
- 2.1.3. AIR PURIFYING RESPIRATORS: Negative pressure half or full-face mask: Supply a sufficient quantity of respirator filters approved for asbestos, so that workers can change filters during the work day. Respirators shall be wet-rinsed, and filters discarded, each time a worker leaves the Work Area. New filters shall be installed each time a worker re-enters the Work Area. Store respirators and filters at the job site in the changing room and protect totally from exposure to asbestos prior to their use.

2.1.4. POWERED AIR PURIFYING - half or full-face mask: Supply a sufficient quantity of high efficiency respirator filters approved for asbestos so that workers can change filters at any time that flow through the face piece decreases to the level at which the manufacturer recommends filter replacement. Require that regardless of flow, filter cartridges be replaced after 40 hours of use. HEPA elements in filter cartridges shall be protected from wetting during showering. Exterior housing of respirator, including blower unit, filter cartridges, hoses, battery pack, face mask, belt, and cords, shall be washed each time a worker leaves the Work Area. Caution should be used to avoid shorting battery pack during washing. Provide an extra battery pack for each respirator so that one can be charging while one is in use.

2.1.5. For Type "C" gross abatement operations:

- 2.1.6.1 One open airline shall be maintained at all times. Removal of a worker to provide this line will not be acceptable.
- 2.1.6.2 Air Systems Monitor: Continuously monitor the air system operation including compressor operation, filter system operation, back-up air capacity and all warning and monitoring devices at all times that system is in operation. Assign no other duties to this individual, which will take him away from monitoring the air system.

2.2 RESPIRATORY PROTECTION FACTOR

2.2.1 Provide Respiratory Protection through determining the proper level of protection by dividing the expected or actual airborne fiber count in the Regulated Area by the "protection factors" given below. The level of respiratory protection which supplies an airborne fiber level inside the respirator, at the breathing zone of the wearer, at or below the permissible exposure limit (PEL), as defined below, is the minimum level of protection allowed.

Respirator Type	Protection Factor
Air purifying:	10
Negative pressure respirator	
High efficiency filter	
Half face piece	
Air purifying:	50
Negative pressure respirator	
High efficiency filter	
Full face piece	
Powered Air Purifying (PAPR):	1,000
Positive pressure respirator	
High efficiency filter	
Full face piece	

Respirator Type	Protection Factor
Type C supplied air:	50
Positive pressure respirator	
Pressure demand	
Half face piece	
Type C supplied air:	1,000
Positive pressure respirator	
Pressure demand	
Full face piece	
Equipped with an auxiliary positive	
pressure	
Self-contained breathing apparatus	>1,000
(SCBA):	,
Positive Pressure respirator	
Pressure demand	

PART 3 - EXECUTION

3.1 GENERAL

- 3.1.1. Respiratory Protection Program: Comply with ANSI Z88.2 2015 "Practices for Respiratory Protection" and OSHA 29 CFR 1910 and 1926.
 - 3.1.1.1. Require that respiratory protection be used at all times that there is any possibility of disturbance of asbestos-containing materials whether intentional or accidental.
 - 3.1.1.2. A respirator shall be worn by anyone in a regulated area at all times, regardless of activity, during a period that starts with any operation which could cause airborne fibers until the area has been cleared for re-occupancy in accordance with Section 02074.
 - 3.1.1.3. Should any condition, for any reason, be encountered where the exposure level, after application of the appropriate protection factor of the respiratory equipment in use, exceeds 0.1 f/cc, then the Contractor must substitute respiratory equipment with protection factors which reduce worker exposure levels below 0.1 f/cc. Should any such condition come to the Owner's attention, the right is reserved to require the use of respiratory equipment with higher protection factors for any or all phases of the work.
 - 3.1.1.4. Regardless of Airborne Fiber Levels: Require that the minimum level of respiratory protection used be half-face air-purifying respirators with high efficiency filters.

- 3.1.1.5. Do not allow the use of single-use, disposable, or quarter-face respirators for any purpose.
- 3.1.1.6. Provide authorized visitors with respirators containing fresh cartridges that meet or exceed the protection requirements for the regulated area, whenever they are required to enter the regulated area, to a maximum of 4 per day. All persons shall be medically qualified to wear a respirator and fit tested for the specific respirator being worn.
- 3.1.1.7. Respiratory equipment shall be cleaned, repaired, and sanitized after each use.

3.2 FIT TESTING

- 3.2.1. Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training. Fit types of respirator to be actually worn by each individual. Allow an individual to use only those respirators for which training and fit testing have been provided. Workers shall have medical examinations.
- 3.2.2. Upon Each Wearing: Require that each time an air-purifying respirator is put on it be checked for fit with a positive and negative pressure fit test in accordance with the manufacturer's instructions or ANSI Z88.2 2015.

3.3 TYPE OF RESPIRATORY PROTECTION REQUIRED

3.3.1 Provide Respiratory Protection through determining the proper level of protection by dividing the expected or actual airborne fiber count in the Regulated Area by the "protection factors" given below. The level of respiratory protection which supplies an airborne fiber level inside the respirator, at the breathing zone of the wearer, at or below the permissible exposure limit (PEL), as defined below, is the minimum level of protection allowed.

3.4 PERMISSIBLE EXPOSURE LIMIT (PEL)

- 3.4.1 8-Hour Time Weighted Average (TWA) of asbestos fibers to which any worker may be exposed shall not exceed 0.1 fibers/cubic centimeter.
- 3.4.2 30-Minute Time Weighted Average (TWA) of asbestos fibers to which any worker may be exposed shall not exceed 1 fiber /cubic centimeter.
- 3.4.3 Fibers: For purposes of this section, fibers are defined as all fibers regardless of composition as counted in the NIOSH 7400 procedure.

SECTION 01700 - PROJECT CLOSEOUT

PART 1 GENERAL

1.1. SECTION INCLUDES

- 1.1.1. Closeout Procedures
- 1.1.2. Final Cleaning

1.2. RELATED SECTIONS

- 1.2.1. Section 01095 Codes, Regulations, and Standards Asbestos Abatement
- 1.2.2. Section 01500 Construction Facilities and Temporary Controls
- 1.2.3. Section 01300 Submittals

1.3. FINAL COMPLETION

- 1.3.1. Complete final cleaning and remove temporary facilities.
- 1.3.2. Final cleaning at closeout time of each regulated area, clean the entire work area to normal level for "first class" maintenance/cleaning of building projects of a similar nature. Remove non-permanent protection and labels, clean exposed finishes, remove debris and broom clean non-occupied spaces as necessary, police yards and grounds, and perform similar cleanup operations needed to produce a "clean" condition as judged by Owner.

1.4. FINAL PROJECT COMPLETION AND FINAL PAYMENT

- 1.4.1. Provide submittals to Owner that are required by governing or other authorities. Confirm that all submittals required by the construction documents have been transmitted.
- 1.4.2. Final Completion: For the purpose of determining a date at which the project is finished, final completion may be defined to include, but is not limited to:
 - 1.4.2.1.Substantial Completion and all punch list work completed, reviewed and accepted by the Owner.
 - 1.4.2.2.Final cleaning.

1.4.3. All of the above items are required by individual specification requirements and found in the Contract Documents. These individual requirements shall take precedence over this definition if any conflict should arise.

1.5. FINAL CLEANING

- 1.5.1. Execute final cleaning prior to final inspection conducted by Owner or Owner's Representative as specified in Section 02071.
- 1.5.2. Clean surfaces exposed to view; remove temporary labels, stains and foreign substances, vacuum carpeted and soft surfaces.
- 1.5.3. Clean equipment and fixtures to a sanitary condition.
- 1.5.4. Clean site rake clean landscaped surfaces.
- 1.5.5. Remove waste and surplus materials, rubbish, and construction facilities from the site.

1.6. PROJECT RECORD DOCUMENTS

- 1.6.1. Maintain on site, one set of the following record documents; record actual revisions to the Work:
 - 1.6.1.1.Specifications.
 - 1.6.1.2.Addenda.
 - 1.6.1.3. Change Orders and other Modifications to the Contract.
 - 1.6.1.4. Company, supervisor and worker licenses and certifications.
 - 1.6.1.5. Asbestos Abatement Notifications
- 1.6.2. Store Record Documents separate from documents used for construction.
- 1.6.3. Record information concurrent with construction progress.
- 1.6.4. Submit documents to Owner with claim for final Application for Payment.

1.7. AFFIDAVIT IN REGARD TO LIENS

1.7.1. An executed Final Lien Waiver from the Contractor and his Subcontractors must be submitted with the Contractor's final application for payment.

PART 2 CLOSEOUT PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

Division 2
Site Work

SECTION 02071 – ASBESTOS FLOOR TILE AND MASTIC REMOVAL

PART 1 GENERAL

1.1 SCOPE

This section covers the removal of asbestos-containing materials as identified in Section 01010 - Summary of Work. Compliance with all applicable Federal, State, and local regulations and the use of the best available technology, procedures, and methods for preparation, execution, cleanup, disposal, and safety are absolutely required. This compliance is the sole responsibility of the Contractor.

1.2 DESCRIPTION

- 1.2.1 The following area asbestos containing materials or asbestos contaminated installations that are covered in this section.
 - 1.2.1.1 Vinyl floor tile
 - 1.2.1.2 Cove base
 - 1.2.1.3 Mastic
- 1.2.2 Non-asbestos demolition work: Non-asbestos demolition requires the selective removal and subsequent off-site disposal, of the following non-asbestos containing installations.
 - 1.2.2.1 Portions of the building structure as indicated on the drawings or as needed.
- 1.2.3 The contractor shall furnish all labor, materials, services, insurance, and equipment in accordance with the most stringent requirements of EPA and OSHA and all other applicable regulatory agencies, to complete the removal of asbestos-containing materials as described in this section, Section 01010, and Attachment A.

1.3 SITE CONDITIONS

1.3.1 It shall be the Contractor's responsibility to replace or repair to the Owner's satisfaction, prior to close out of the project, all damaged items caused by the Contractor and not proven otherwise. All items damaged prior to abatement shall be brought to the attention of the Owner and The Owner during the Design and Planning Meeting.

1.4 SUBMITTAL REQUIREMENTS

1.4.1 Reference: Section 01300.

1.5 TERMINOLOGY (Definitions)

1.5.1 <u>ABATEMENT</u>: Procedure to minimize the hazards of exposure to asbestoscontaining materials.

- 1.5.2 <u>AIR MONITORING:</u> The process of measuring the fiber content of specific volume of air in a stated period of time. When "aggressive" air sampling is required, blowers/fans are used to dispense settled fibers into the air during sampling.
- 1.5.3 <u>AMENDED WATER</u>: Water to which a surfactant has been added to reduce water surface tension and thereby provide a more rapid penetration.
- 1.5.4 <u>ASBESTOS</u>: The asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummintonite-grunerite, anthophyllite, and actinolite-tremolite. For purposes of determining respiratory and worker protection both the asbestiform and non-asbestiform varieties of the above minerals and any of these materials that have been chemically treated and/or altered shall be considered as asbestos.
- 1.5.5 <u>ASBESTOS-CONTAINING MATERIAL (ACM):</u> Any material containing more than 1% by weight of asbestos of any type or mixture of types.
- 1.5.6 <u>ASBESTOS-CONTAINING BUILDING MATERIAL (ACBM):</u> Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a building.
- 1.5.7 <u>ASBESTOS-CONTAINING WASTE MATERIAL</u>: Any material, which is or is suspected of being or any material contaminated with an asbestos-containing material, which is to be removed from a work area for disposal.
- 1.5.8 <u>ASBESTOS DEBRIS:</u> Pieces of ACBM/ACM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM
- 1.5.9 <u>AUTHORIZED VISITOR:</u> The Owner, his authorized Representative, or regulatory officials with jurisdiction over the project.
- 1.5.10 <u>BARRIER</u>: Any surface that seals off the work area to inhibit the movement of fibers and prevent entry of unauthorized personnel.
- 1.5.11 COMPETENT PERSON: Contractor's employee who is capable of identifying existing asbestos hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them, as in 29 CFR 1926.32(f). The duties of the competent person include at least the following: establishing the negative pressure enclosure, ensuring its integrity, and controlling entry to and exit from the enclosure, supervising any employee exposure monitoring required by the standards, ensuring that all employees working within such an enclosure wear the appropriate personal protective equipment, are trained in the use of appropriate methods of exposure control, and use the hygiene facilities and decontamination procedures specified in the standard, and ensuring that engineering controls in use are in proper operating condition and are functioning properly.
- 1.5.12 <u>CONTAMINATED</u>: A term commonly applied to the regulated side of abatement enclosures or a condition in which asbestos-containing material is found on other objects as debris, is not covered with jacketing, has been damaged or is otherwise no longer intact which may or has resulted in fiber release but not necessarily a visible release, hazardous condition or of a measurable quantity.
- 1.5.13 <u>CURTAINED DOORWAY:</u> Device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms. Is typically constructed by placing three overlapping sheets of opaque 6-mil polyethylene over an existing or temporarily framed doorway. Secure each sheet along the top of the doorway and the vertical edge of one sheet along one vertical side of the doorway.

- Secure the vertical edge of the second sheet along the opposite vertical side of the doorway and attach the third sheet along the same side of the doorway as the first sheet so that the second sheet is between the first and third sheets.
- 1.5.14 <u>DECONTAMINATION ENCLOSURE SYSTEM:</u> A series of connected rooms with curtained doorways between any two adjacent rooms, for the decontamination of workers and/or materials and equipment, constructed or moved onto site.
 - 1.5.14.1<u>DECONTAMINATION AREA:</u> An area adjacent to regulated area, for the decontamination of workers and/or materials and equipment, constructed or moved onto site (Sometimes referred to as a Dry Decon).
 - 1.5.14.2EQUIPMENT DECONTAMINATION ENCLOSURE SYSTEM:

 (Also referred to as a Load-out.) A room or portion of a regulated area at an exit where waste disposal bags are covered with a second, clean waste disposal bag prior to hand off to uncontaminated workers outside the regulated area for transport to a landfill or in which equipment is washed down and decontaminated prior to transfer from the regulated area.
 - 1.5.14.3 FULL STAGE DECONTAMINATION ENCLOSURE SYSTEM: A Decontamination enclosure system for workers to enter and exit the regulated area through, typically consisting of a curtained doorway, an equipment room, a curtained doorway, a shower, a curtained doorway, and a clean room (Also referred to as a Wet Decon).
- 1.5.15 <u>ENCLOSURE</u>: The construction of an airtight, impermeable barrier around asbestos-containing material to control the release of asbestos fibers into the air.
- 1.5.16 <u>FIXED OBJECT:</u> A unit of equipment or furniture in the regulated area that cannot be removed without dismantling.
- 1.5.17 GROSS ABATEMENT AREA: Wet removal of ACM is performed in a regulated area that is sealed and fully contained in polyethylene sheeting. Workers enter the regulated area through a decontamination enclosure system.
- 1.5.18 <u>HEPA FILTER:</u> A high efficiency particulate air (HEPA) filter capable of collecting and retaining 99.97% of monodispersed particles greater than or equal to 0.3 microns in diameter.
- 1.5.19 <u>HEPA VACUUM EQUIPMENT:</u> High efficiency particulate air filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining monodispersed particles greater than or equal to 0.3 microns in diameter.
- 1.5.20 <u>NEGATIVE AIR PRESSURE EQUIPMENT:</u> A local exhaust system, capable of maintaining a constant, low velocity airflow through the decontamination enclosure system and into the regulated area from adjacent uncontaminated areas and exhausting that air outside the building through HEPA filters.
- 1.5.21 NIOSH: National Institute for Occupational Safety and Health.
- 1.5.22 ENCAPSULATION: A liquid material which can be applied to surfaces from which asbestos containing materials have been removed to control the possible release of residual asbestos fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components (penetrating encapsulant).

- 1.5.23 <u>REMOVAL</u>: The taking out or stripping of substantially all ACBM/ACM from a damaged area, a functional space, or a homogeneous area in a building.
- 1.5.24 <u>REPAIR</u>: Returning damaged ACBM/ACM to an undamaged condition or to an intact state to prevent fiber release.
- 1.5.25 <u>SURFACTANT</u>: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
- 1.5.26 UNCONTAMINATED: Does not meet the definition of Contaminated, 1.4.12.
- 1.5.27 <u>WET CLEANING/WIPING:</u> The process of eliminating contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.
- 1.5.28 <u>WORK AREA</u>: The area where asbestos related work or removal operations are performed which is defined and/or isolated to prevent the spread of asbestos dust, fibers, or debris, and entry by unauthorized personnel.

PART 2 EQUIPMENT AND MATERIALS

2.1 MATERIALS

- 2.2.1 Deliver all materials in the original packages, containers, or bundles bearing the name of the manufactured and the brand name.
 - 2.2.1.1 Store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficiently to prevent damage or contamination.
 - 2.2.1.2 Damaged or deteriorating materials shall not be used and shall be removed from the premises. Material that becomes contaminated with asbestos shall be disposed of in accordance with applicable regulations.
- 2.2.2 <u>POLYETHYLENE SHEETING:</u> (Also called Plastic) A minimum of 6-mil shall be used for critical barriers, floors, covering fixed objects, and wrapping irregularly shaped waste. A minimum of 4-mil shall be used for walls, in sizes to minimize the frequency of joints.
- 2.2.3 <u>TAPE</u>: Capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.
- 2.2.4 <u>ADHESIVES</u>: Capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.
 - 2.2.4.1 For this project 3M76, 77, Poly Prep spray adhesive or equal.

- 2.2.5 <u>CAULKS</u>: As approved.
- 2.2.6 <u>SURFACTANT</u>: Shall consist of 50% polyoxyethylene ether and 50% of polyoxyethylene ester, or equivalent, and shall be mixed with water to provide a concentration of one ounce of surfactant to 5 gallons of water. Use "Aqua-Gro" by Aquatrols Corp. of America, Pennsauken, New Jersey, or approved equal. The Contractor shall be responsible for verifying that this surfactant is compatible with the materials to be removed and their substrates. If found to be incompatible, the Contractor shall supply suitable wetting agents at no extra cost to the Owner.
- 2.2.7 IMPERMEABLE CONTAINERS: Suitable to receive and retain any asbestos-containing or contaminated materials until disposal at an approved site. The containers shall be labeled in accordance with OSHA Regulation 29 CFR 1926.1101 and NESHAP Title 40 Part 61. Containers must be both air and watertight and must be resistant to damage and rupture. The containers shall be a pair of 6-mil polyethylene bags unless approved otherwise by Consultant. Oversized or irregularly shaped waste material shall be wrapped in two layers of 6-mil polyethylene sheeting, taped and labeled so as to be resistant to damage, rupture, and be air and watertight.
- 2.2.8 <u>WARNING LABELS AND SIGNS:</u> As required by OSHA regulation 29 CFR 1926.1101 and NESHAP Title 40 Part 61.
- 2.2.10 <u>MASTIC REMOVAL SOLVENT:</u> Solvent capable of removing mastic using hand pressure accompanied by hand tools. Solvent must <u>not</u> meet EPA's characteristics of hazardous waste and must be of low odor.
- 2.2.11 OTHER MATERIALS: Provide all other materials, such as, but not limited to lumber, plywood, nails, and hardware, which may be required to properly prepare and complete the project.

2.3 TOOLS AND EQUIPMENT

- 2.3.1 Provide suitable tools for asbestos removal.
 - 2.3.1.1 <u>Water Sprayer:</u> Airless or a low-pressure sprayer for amended water application as appropriate.
 - 2.3.1.2 <u>Air-Purifying Equipment:</u> Shall comply with ANSI Z9.2-79. No air movement system or air equipment should discharge asbestos fibers outside the abatement area. Thus, the negative air equipment shall be equipped with a three-filter bank with the last being the HEPA filter
 - 2.3.1.4 <u>Vacuums</u>: Use HEPA type such as Nilfisk GA 73, or other vacuums certified for asbestos abatements.

- 2.3.1.5 <u>Backflow check valves</u>: Are to be used when attaching to Owner's faucets.
- 2.3.1.6 Other tools and equipment as necessary.

PART 3 EXECUTION OF ABATEMENT

3.1 POSTING OF THE PROJECT

Post signs to comply with OSHA regulation 29 CFR 1926.1101 and with all other Federal, State, and Local requirements.

3.2 WORK AREA PREPARATION

- 3.2.1 The Contractor, in coordination with the Owner, shall shut down electric power to proposed regulated areas as necessary for safety.
- 3.2.2 The Contractor, in coordination with the Owner, shall shut down or isolate heating, cooling, and ventilating air systems to proposed regulated areas.
- 3.2.3 Remove all removable items and equipment from proposed regulated areas prior to the beginning of work by the contractor.
- 3.2.4 Preclean proposed regulated areas and fixed objects within, first using HEPA vacuum equipment and then wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters. Do not use HEPA vacuum equipment on wet surfaces unless units are specially constructed for wet/dry use. Completely enclose fixed objects with a minimum 6-mil plastic sheeting sealed with tape.

3.3 WORK AREAS

- 3.3.1 Work areas must be constructed and utilized in accordance with State of Missouri Asbestos Regulations and Statutes, EPA NESHAPS, and OSHA 29 CFR 1926.1101.
 - 3.3.1.1 This should include the installation of splashguards, critical barriers on HVAC vents, and negative air machines to establish four air exchanges per hour.
 - 3.3.1.2 If floor tile will be removed using mechanical means, then a full enclosure containment shall be used as required by State and/or Federal regulations. Where differences in regulations occur, the most stringent shall apply.
- 3.3.2 At the beginning of each work shift and throughout removal, all barriers shall be inspected, and if not found in proper condition, repaired immediately.

3.4 DECONTAMINATION

- 3.4.1 Decontamination Enclosure Systems must be constructed and utilized in accordance with State of Missouri Asbestos Regulations, EPA NESHAPS, and OSHA 29 CFR 1926.1101.
- 3.4.2 <u>EQUIPMENT DECONTAMINATION ENCLOSURE SYSTEM:</u> A room or portion of a regulated area at an exit where waste disposal bags are covered with a second, clean waste disposal bag prior to hand off to uncontaminated workers outside the regulated area for transport to a landfill or in which equipment is washed down and decontaminated prior to transfer from the regulated area.
 - 3.4.2.1 Contractor may elect to construct equipment decontamination enclosure system on side of equipment room of full stage decontamination enclosure system.
 - 3.4.2.2 If equipment decontamination enclosure system is outside building, cover in 1/2" plywood and have securable door.
- 3.4.3 <u>DECONTAMINATION AREA:</u> Small-scale short duration projects, glovebag removals, and non-friable abatements do not require a full stage decontamination enclosure system.
 - 3.4.3.1 Establish a decontamination area that is adjacent to or within the regulated area for decontamination of employees and equipment. Use of portable decontamination enclosure systems acceptable to State of Missouri, EPA and OSHA may be used. At a minimum the decontamination location shall consist of an area covered by an impermeable drop cloth on the floor or horizontal-working surface of sufficient size to accommodate cleaning of equipment and removing personal protective equipment without spreading contamination.
 - 3.4.3.2 A HEPA equipped vacuum shall be used to clean debris from protective clothing.
 - 3.4.3.3 Sufficient water shall be available for workers to clean with.
 - 3.4.3.4 Entry to and exit from the regulated area shall be through the decontamination area.
 - 3.4.3.5 At the end of each work shift: Thoroughly disinfected, HEPA vacuumed, and wet cleaned. All debris and rubbish shall be removed, bagged, and disposed of as asbestos-containing materials.

3.5 SEPARATION OF WORK AREAS FROM NON-WORK AREAS

3.5.1 The work areas are to be separated from occupied areas by temporary barriers. The barriers are to meet with State of Missouri Asbestos Regulations, EPA NESHAPS, and OSHA 29 CFR 1926.1101.

3.6 COMMUNICATIONS

3.7.1 In large noisy or multiple work areas where shouting is not effective, provide an electronic communications system suitable for inside or outside, and inter-room communications, in order to monitor all activities within the regulated area, to readily transfer messages from one location to another.

3.8 FIRE EXITS

3.8.1 Designate and maintain emergency and fire exits from the regulated area in accordance with local codes and regulation. All exits shall be clearly marked with fluorescent tape or red enamel and shall be clearly visible from any part of the regulated area.

3.9 **SECURITY**

3.9.1 Assist Owner in maintaining the security for building. Contractor is responsible for the security of the work area.

3.10 VENTILATION SYSTEMS

- 3.10.1 <u>FULL ENCLOSURE</u>: required when Contractor uses mechanical means to remove floor tile unless a waiver is granted by the appropriate governing bodies.
 - 3.10.1.1 Comply with paragraph J.2 of the EPA document, Guidance of Controlling Friable Asbestos-Containing Materials in Buildings, June 1985.
 - 3.10.1.2 Have one spare unit of negative air pressure equipment available at all times. Spare units of negative air pressure equipment shall be of the same size and capacity as the largest operating equipment.
 - 3.10.1.3 Suspend electrical cords off the floor and out of workers' way to protect the cords from damage from traffic, sharp objects, and pinching. Do not fasten cords with staples, and do not hang cords from nails or suspend with wire.

- 3.10.1.4 Provide sufficient units of negative air pressure equipment in each regulated area to complete at least one air change every 15 minutes in all locations of the regulated areas. Units of negative air pressure equipment are assumed to draw 80% of their rated capacity. If it can be proven to the Consultant that the equipment draws over 80% of their rated capacity, the number of negative air pressure equipment units may be altered.
- 3.10.1.5 Locate units of negative air pressure equipment so that make-up air enters the regulated area primarily through the decontamination enclosure system and transverses the regulated area as much as possible. Use Section J.3 of the referenced standard as a guide.
- 3.10.1.6 Provide additional make-up air openings as shall be necessary to effectively move air through the regulated area and to avoid creating too high a pressure differential that would damage or cause "blown-in" of temporary barriers and plastic coverings. Provide inlets by making openings in the plastic sheeting near the ceiling and as far as possible from the negative air pressure equipment. Provide self-closing polyethylene flaps over the openings to prevent backflow of air from the enclosure to the outside.
- 3.10.1.7 Provide only enough auxiliary make-up air openings to maintain visible signs of adequate negative pressure, such as the plastic sheeting on barriers moving in towards the regulated area. A pressure differential in excess of 0.02 inches of water shall be maintained.
- 3.10.1.8 Vent all units of negative air pressure equipment to the outside of the building. Provide flexible or rigid duct as necessary to provide exterior venting and proper location of negative air pressure equipment. Ducts shall be completely sealed, in good repair, and protected from possible damage within the regulated area.
- 3.10.1.9 After the regulated area has been prepared, the decontamination enclosure system set up, and the negative air pressure equipment installed, start the equipment (one at a time if more than one is provided). Visually check the direction of air movement through the openings in the barriers and verify movement of air in all locations of the regulated areas by use of ventilation smoke tubes. Adjust the location of the negative air pressure equipment or provide additional negative air pressure equipment for the regulated area if the test indicates inadequate or improper air movement.
- 3.10.1.10 After removal has begun, maintain operation of negative air pressure equipment continuously to maintain a constant negative pressure until approved by Consultant. Do not turn equipment off at the end of the work shift or when removal operations temporarily stop.

- 3.10.2 When approved by Consultant, remove and dispose of pre-filters and shut off the negative air pressure equipment. If the negative air pressure equipment is to be used in another regulated area, leave the final filter in place and seal all intake openings to the equipment to prevent contamination due to asbestos fibers collected on the final filter. If the negative air pressure equipment is not to be used in other regulated areas, remove the final filter and dispose of as contaminated waste. If dismantling of negative air pressure equipment results in visible dust on surfaces HEPA vacuum and wet wipe area.
- 3.10.3 Change filters in negative air pressure equipment in accordance with manufacturer's recommendations and Paragraph J.3.2.2.1 of the EPA document, Guidance of Controlling Friable Asbestos-Containing Materials in Buildings, June 1985, or when there is obvious loss of negative pressure.

3.11 PREWORK INSPECTIONS

- 3.11.1 Upon completion of all regulated area preparation and immediately before work is to begin, notify Consultant that the regulated area is ready for inspection.
- 3.11.2 The Contractor shall not begin abatement work until the Consultant has inspected the area and any deficiencies have been corrected.

3.12 GROSS REMOVAL

- 3.12.1 <u>FULL ENCLOSURE:</u> for gross abatement of friable asbestos-containing materials. If removal of floor tile is completed using machine methods, then the material is deemed friable. Related Sections: 02071 3.2 (Work Area Preparation), 3.3 (Work Areas), 3.4 (Decontamination Enclosure Systems), 3.5 (Separation of Work Areas), 3.6 (Worker Protection), 3.7 (Communication), 3.8 (Fire Exits), 3.9 (Security), 3.10 (Ventilation Systems), 3.11 (Pre-work Inspection), and 3.15 (Post-Removal Encapsulation of Affected Areas), 3.16 (Test for final clearance).
 - 3.12.1.1 Any housing grills, vents, penetrations, or other components concealing asbestos-containing materials shall be lowered and/or removed and protected to provide access to the materials. Replacement or reattachment of these shall be in a manner such that function, and appearance is equal to or exceeds the original condition.
 - 3.12.1.2 All fixtures, grills, clocks, intercom systems, and any other metal objects shall be protected from amended water. Surfactant will cause oxidation. Painted surfaces shall also be protected. Gauges or other items susceptible to rust shall be cleaned with an acceptable substitute such as isopropyl alcohol.

- 3.12.1.3 Spray asbestos-containing material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excessive dripping. The use of high RPM power equipment, pressure washers, or hydroblasters shall not be acceptable without permission from Consultant. Remove the saturated asbestos material in small sections from all areas. Material drop shall not exceed fifteen feet (15'). For heights up to fifty feet (50'), provide inclined chutes to intercept drop. For heights exceeding fifty feet (50') provide enclosed, dust proof chutes. Material shall not be allowed to dry before placing in sealable polyethylene bags of 6-mil minimum thickness. All asbestos-containing material shall be removed thoroughly and totally. Nylon fiber brushes shall be used to clean asbestos fibers from rough surfaces. Any contaminated material capable of puncturing the polyethylene shall be packaged separately.
- 3.12.2 Maintain regulated areas free of accumulated asbestos-containing materials at all times. Keep waste materials wet until enclosed in impermeable containers.
- 3.12.3 If impermeable containers are 6-mil bags, then the bags shall be wet cleaned or HEPA vacuumed. Single bagged material shall be placed in a clean bag or into a lined drum. Ensure that all double-bagged items yield a minimum covering of 12-mil before removal from the regulated area. At no time shall a removal worker pass through the Equipment Decontamination Enclosure System into the uncontaminated area.
- 3.12.4 Once the removal has been completed, notify Consultant that the area is ready for visual inspection. The Consultant will inspect area for cleanliness. If area is not considered to be clean, the Contractor will reclean area. Upon approval by Consultant, encapsulate area as described in 3.15 (Post Removal Encapsulation of Affected Areas). Consultant will then reinspect area to ensure proper encapsulation procedures were followed. Consultant will initiate aggressive final air sampling. Consultant will provide final air sampling results to the Contractor and the Owner.
- 3.12.5 If testing results indicate fiber concentrations not acceptable by EPA AHERA and this project manual, the regulated area shall remain sealed until acceptable standards are met.

3.14 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL AND ASBESTOS CONTAMINATED WASTE (SOLID AND/OR LIQUID)

3.14.1 Vehicles used for transporting asbestos-containing materials to disposal sites shall have a completely enclosed, lockable storage compartment unless drums are used. All storage compartments left on-site shall be totally enclosed and locked. Storage compartments shall be plasticized and sealed with a minimum of one (1) layer of 6-mil polyethylene on the sides and top and two (2) layers of 6-mil polyethylene on the

floor. The compartments shall be thoroughly wet cleaned and/or HEPA-vacuumed following the disposal of each load of material at the dumpsite. At the conclusion of the project (or before transport vehicles are used for other purposes), the polyethylene shall be properly removed and disposed of as contaminated waste. After this is accomplished, compartments shall once again be wet cleaned and/or HEPA-vacuumed in order to eliminate all debris prior to reuse of the vehicles. Ensure rented vehicles are clean prior to being returned to the rental company. All plastic sheeting, tape, cleaning material, including mops and sponges, clothing, filters, and all other contaminated disposable materials shall be packaged, labeled, and disposed of as asbestos-containing waste.

- 3.14.2 Dispose of materials at an authorized disposal site in accordance with the requirements of federal, state, and local disposal authorities.
- 3.14.3 Workers unloading waste material at the disposal site shall be dressed in full-body protective clothing and dual cartridge respirators.

3.16 TEST FOR FINAL CLEARANCES

- 3.16.1 After all surfaces are wet wiped and HEPA-vacuumed upon completion of asbestos removal and all areas within the regulated area are visually clean and encapsulated (if applicable), negative air filtration will continue.
- 3.16.2 Clearance sampling will be undertaken in accordance with Section 02074.
- 3.16.3 Once clearance levels are achieved, the Consultant will notify the Contractor who will within a day of notification begin the removal of containment and equipment, etc. from the jobsite.
- 3.16.4 If upon removal of the containment and equipment, visible dust on surfaces is observed, HEPA-vacuum and wet wipe area.
- 3.16.5 Once visually clean and approved by the Consultant, the Contractor can remove the critical barriers and negative air machines.

END OF SECTION 02071

SECTION 02074 – TESTING

PART 1 - GENERAL

1.1. TESTING/AIR MONITORING

- 1.1.1 Throughout the duration of the abatement operation, a third-party Consultant, hired by the owner shall conduct air monitoring and site observation. The Consultant is to be independent from the Contractor so that no conflict of interest may arise. The Consultant is to verify whether the Contractor is complying with EPA and OSHA regulations and any applicable state and local government regulations as well as Section 02071. If the Consultant discovers otherwise, the Consultant will notify the owner immediately.
- 1.1.2 The Consultant will have to work closely with the Contractor and the Owner to coordinate on site activities, schedules, air monitoring, clearance testing, and removal of containment enclosures. The Consultant shall assure timely clearance testing so as not to delay the project.
- 1.1.3 The Contractor shall be responsible for providing personal monitoring of his employees as per 29 CFR 1926.1101.
- 1.1.4 <u>Monitoring Prior to Actual Removal</u>: When feasible the Consultant will conduct background area air monitoring and establish the reference baseline ambient fiber concentrations one day prior to the masking and sealing operations for each work area.
- 1.1.5 Monitoring During Asbestos Removal: Consultant will conduct quality control area air monitoring during abatement operations. If monitoring outside the asbestos control area shows airborne concentrations exceeding the prework baseline reference, or 0.01 f/cc (PCM) if baseline monitoring is not conducted, the Consultant will notify the Contractor and Owner immediately of such results. The Contractor shall stop all work and correct the condition(s) causing the elevated concentrations.
- 1.1.6 <u>Visual Inspection After Final Cleanup</u>: Consultant will conduct a visual inspection in accordance with EPA AHERA 40 CFR Part 763.90. If any part of the containment fails the visual inspection, the abatement contractor must reclean the failed areas (wet methods and hepa vacuum) and consultant must reconduct the visual inspection until failed areas pass.
- 1.1.7 Monitoring After Final Cleanup: Consultant will provide aggressive PCM and/or TEM clearance air monitoring in accordance with EPA AHERA 40 CFR Part 763.90 after final cleanup but before removal of the enclosure of the asbestos control area. All PCM and TEM clearance samples will be overnighted the same day of collection, to an accredited laboratory. Consultant will interpret results and notify contractor of clearance results.

- 1.1.8 <u>Clearance Levels</u>: The air clearance levels must be in accordance with EPA AHERA 40 CFR Part 763.90 and this specification. An airborne concentration of 0.01 fibers / cubic centimeter by PCM or an average of 70 structures / millimeters squared by TEM will be regarded as the clearance level. If these criteria are not met, the Contractor must reclean the failed areas until clearance levels are achieved.
- 1.1.9 <u>Monitoring Results</u>: All PCM and/or TEM sample results will be available within 48 hours after collection. Consultant will notify the Contractor and the Owner of clearance results immediately upon receipt of clearance air sampling.

END OF SECTION - 02074

Attachment

Attachment A Asbestos Containing Material Quantity and Location



Client: Raytown Quality Schools

Project: Raytown Quality Schools Asbestos Flooring Abatement 2022

Location	Materials	Quantity					
Base Bid #1 - Central Middle S	School						
1st Floor Corridors	9" Floor Tile and Black Mastic	5,017 Square Feet					
Lower Level Floor Corridors and 118A and 118B	9" Floor Tile and Black Mastic	7,330 Square Feet					
Base Bid #2 - Southwood Elementary							
1st Floor Corridors	9" Floor Tile and Black Mastic	4,740 Square Feet					
Lower Level Floor Corridors and Cafeteria	9" Floor Tile and Black Mastic	4,317 Square Feet					
Base Bid #3 - Northwood Elen	nentary						
Lower Level FACS Room 1	9" Floor Tile and Black Mastic	815 Square Feet					
Base Bid #4 - Laurel Hills Eler	nentary						
1st Floor Corridors	9" Floor Tile and Black Mastic	7,582 Square Feet					
Base Bid #5 - Spring Valley El	ementary						
1st Floor Corridors	9" Floor Tile and Black Mastic	8,808 Square Feet					

Attachment B Asbestos Inspection Report



March 2, 2022

Mr. Josh Hustad Director of Facilities and Grounds Raytown School District Raytown, Missouri

Limited Asbestos Sampling

Date Performed: **February 18, 2022**Location: **Raytown Central Middle School**

Address: 10601 East 59th Street, Raytown, Missouri 64133

Area Description: 1st Floor Corridors/Hallways, Cafeteria, Classroom 115, Classroom 118

Requested By: Josh Hustad

Reason for Request: Planned Renovations

Performed By: Kody Tramm

Certification #: 7011070821MOIR19410

Dear Mr. Hustad:

Axiom Service Professionals (ASP) conducted the limited asbestos sampling detailed above. The sampling was conducted to determine asbestos content of suspect materials prior to planned renovations.

Asbestos samples were collected in accordance with EPA AHERA, and other applicable local, state, and federal asbestos guidelines and regulations. The samples were submitted to Hayes Microbial for analysis. The lab is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and the NVLAP Lab code number is 5000-96-0. The bulk samples were analyzed by polarized light microscopy (PLM) using EPA Method Reference 600/M4-82-020 and 600/R-93/116.

A material is considered to be an asbestos-containing material (ACM) if at least one sample collected from the material showed asbestos present in an amount greater than one percent (1%), in accordance with the definition of ACM per the Environmental Protection Agency (EPA). Laboratory results may indicate that some materials listed below contain trace amounts (<1%) of asbestos. If so, the material does not meet the EPA definition of asbestos-containing material (1% or greater) and therefore, such material would not be regulated by EPA National Emissions Standards for Hazardous Air Pollutants (NESHAPS). However, these materials would still be regulated under OSHA 29 CFR 1926.1101 the Asbestos Worker Construction Standard which sets protocols for the protection of workers who may encounter asbestos during their work activities.

The sampling was performed only on suspect materials that may be impacted by renovations in the areas described above. Laboratory results and the chain of custody can be found attached as Appendix A.

All materials listed below highlighted in red text are federally regulated regarding abatement methods, worker training, and notification of building occupants, employees, and contractors.

Sample #	ple # Sample Description Area Description Friabilit		Friability	% Asbestos*
10601-FT 1-1, 1-2	9" Floor Tile Various Colors w/ Black Mastic	Corridor @ Media Center Corridor @ Classroom 212	Non-Friable	5% Chrysotile (Floor Tile Layer) 3% Chrysotile (Mastic Layer)
10601-FT 2-1, 2-2			Non-Friable	5% Chrysotile (Floor Tile Layer) 3% Chrysotile (Mastic Layer)
10601-FT 3-1, 3-2	,		Non-Friable	NAD
10601-FT 4-1, 4-2	9" Floor Tile Various Colors w/ Black Mastic	Corridor @ Girls Restroom Corridor @ Classroom 207	Non-Friable	5% Chrysotile (Floor Tile Layer) 2% Chrysotile (Mastic Layer)
10601-FT 5-1, 5-2	12" Floor Tile Cream w/ Tan & White Speckle w/ Beige Adhesive	Corridor @ Office 201 Corridor @ Counseling Center	Non-Friable	NAD
10601-FT 6-1, 6-2	9" Floor Tile Various Colors w/ Black Mastic	I No		6% Chrysotile (Floor Tile Layer) 2% Chrysotile (Mastic Layer)
10601-FT 7-1, 7-2	12" Floor Tile Grey w/ White Speckle & Black Mastic Stairwell @ Classroom 228		Non-Friable	NAD
10601-FT 8-1, 8-2	I White Speckle & Riack I		Non-Friable	<1% Chrysotile (Floor Tile Layer) <3% Chrysotile (Mastic Layer)
10601-FT 9-1, 9-2	9" Floor Tile Various Colors w/ Black Mastic	Corridor @ Classroom 101 Corridor @ Classroom 106	Non-Friable	5% Chrysotile (Floor Tile Layer) NAD (Mastic Layer)

10601-FT 10-1, 10-2	12" Floor Tile Light Green w/ Dark Grey Speckle w/ Base Adhesive	Corridor @ Custodian Office	Non-Friable	NAD
10601-FT 11-1, 11-2	12" Floor Tile Various Colors w/ Beige Adhesive	Cafeteria Cafeteria	Non-Friable	NAD
10601-FT 12-1, 12-2	I Tan & White Speckle I		Non-Friable	NAD
10601-FT 13-1, 13-2 12" Floor Tile Grey w Dark Grey Speckle & Beige Adhesive		Classroom 116 Classroom 116	Non-Friable	NAD
10601-FT 14-1, 14-2	12" Floor Tile White w/ Blue Streaks	Classroom 118 B Classroom 118 A	Non-Friable	NAD (Tile Layer) 2% Chrysotile (Mastic Layer)
10601-FT 15-1, 15-2	12" Floor Tile Grey w/ Dark Grey Speckle & Beige Adhesive	Classroom 115 C Classroom 115 C	Non-Friable	NAD
10601-GP 16-1, 16-2	Brown Glue Pucks	Cafeteria Classroom 118	Non-Friable	2% Chrysotile
10601-BA 17-1, 17-2	· · · · · · · · · · · · · · · · · · ·		Non-Friable	NAD
10601-DW 18-1, 18-2	Drywall & Joint Compound	Classroom 115 C Classroom 115 C	Non-Friable	NAD

NAD - No Asbestos Detected

^{* -} Asbestos percentage in the table reflects the highest reported concentration. The full laboratory report is attached as Appendix A.

Axiom Service Professionals appreciates the opportunity to serve you. If you have any questions, please feel free to call or email.

Sincerely,

Kody Tramm 913-322-3862

kodyt@axiomservicepros.com

Limitations of Inspection

Axiom Service Professionals collected samples of suspect asbestos containing materials that will be impacted by planned renovations only. Other suspect materials within the rooms were not sampled and should be presumed to be asbestos containing until sampling proves otherwise.

Appendix A Laboratory Analytical Report





Analysis Report prepared for

Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188

Phone: (816) 678-7894

Raytown Central 10601 E 59th Street Raytown, MO 64133

Collected: February 18, 2022 Received: February 23, 2022 Reported: February 25, 2022 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 36 samples by FedEx in good condition for this project on February 23rd, 2022.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Ephon N. Hoyes

Lab ID: #188863



DPH License: #PH-0198

Raytown Central 10601 E 59th Street Raytown, MO 64133 #22006735

Asbestos PLM Bulk EPA 600/R-93, M-4/82-020

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

÷	#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
	1	1 10601 - FT - 1 - 1 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ Media Cen.	Tile / Tan		5% Chrysotile
			Mastic / Black		3% Chrysotile
	2	1 10601 - FT - 1 - 2 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ Class 212	Tile / Tan		(Not Analyzed, Positive Stop)
			Mastic / Black		(Not Analyzed, Positive Stop)
;	3	2 10601 - FT - 2 - 1 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ Class 214	Tile / Gray		5% Chrysotile
			Mastic / Black		3% Chrysotile
	4	2 10601 - FT - 2 - 2 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ Class 219	Tile / Gray		(Not Analyzed, Positive Stop)
			Mastic / Black		(Not Analyzed, Positive Stop)
	5	3 10601 - FT - 3 - 1 - 12" Floor Tile Various Colors w/ Beige Mastic, Entry Corridor	Tile / Purple		None Detected
			Adhesive / Tan		None Detected
	6	3 10601 - FT - 3 - 2 - 12" Floor Tile Various Colors w/ Beige Mastic, Entry Corridor	Tile / White		None Detected
			Adhesive / Yellow		None Detected



Collected: Feb 18, 2022

Project Analyst:

Darien Williams,

Received: Feb 23, 2022

Reported: Feb 25, 2022

9/1/:

02 - 24 - 2022

Date:

Reviewed By:
Geepha Jacob,

Ver

Date:

02 - 25 - 2022

/ anen

Raytown Central 10601 E 59th Street #22006735

Asbestos PLM Bulk

P.O. Box 47166 Raytown, MO 64133 Kansas City, MO 64188 (816) 678-7894 EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
7	4 10601 - FT - 4 - 1 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ Girls RR	Tile / Gray		5% Chrysotile
		Mastic / Black		2% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
8	4 10601 - FT - 4 - 2 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ Class 207	Tile / Gray		(Not Analyzed, Positive Stop)
		Mastic / Black		(Not Analyzed, Positive Stop)
9	5 10601 - FT - 5 - 1 - 12" Floor Tile Cream w/ Tan & White Speckle w/ Beige Adhesive, Office 201	Tile / White		None Detected
		Adhesive / Green		None Detected
10	5 10601 - FT - 5 - 2 - 12" Floor Tile Cream w/ Tan & White Speckle w/ Beige Adhesive, Counseling Center	Tile / White		None Detected
		Adhesive / Green		None Detected
11	6 10601 - FT - 6 - 1 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ CL 223	Tile / Gray		6% Chrysotile
		Mastic / Black		2% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
12	6 10601 - FT - 6 - 2 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ CL 226	Tile / Gray		(Not Analyzed, Positive Stop)
		Mastic / Black		(Not Analyzed, Positive Stop)



Collected: Feb 18, 2022

Received: Feb 23, 2022

Reported: Feb 25, 2022

Project Analyst: Darien Williams, / anen Date: 02 - 24 - 2022 Reviewed By: Geepha Jacob,

Date:

#22006735

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894 Raytown Central 10601 E 59th Street Raytown, MO 64133

Asbestos PLM Bulk EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
13	7 10601 - FT - 7 - 1 - 12" Floor Tile Grey w/ White Speckle & Black Mastic, Stairwell	Tile / Gray		None Detected
		Mastic / Black		None Detected
14	7 10601 - FT - 7 - 2 - 12" Floor Tile Grey w/ White Speckle & Black Mastic, Stairwell CL 228	Tile / Gray		None Detected
	-	Mastic / Black		None Detected
15	8 10601 - FT - 8 - 1 - 12" Floor Tile Green w/ White Speckle & Black Mastic, Corridor @ CL 108	Tile / Gray		<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
	- -	Mastic / Black		3% Chrysotile
16	8 10601 - FT - 8 - 2 - 12" Floor Tile Green w/ White Speckle & Black Mastic, Corridor @ Elev.	Tile / Gray		<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
	-	Mastic / Black		(Not Analyzed, Positive Stop)
17	9 10601 - FT - 9 - 1 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ CL 101	Tile / Gray		5% Chrysotile
	-	Mastic / Black		None Detected
18	9 10601 - FT - 9 - 2 - 9" Floor Tile Various Colors w/ Black Mastic, Corridor @ CL 106	Tile / Gray		(Not Analyzed, Positive Stop)
	- -	Mastic / Black		None Detected



Collected: Feb 18, 2022

Received: Feb 23, 2022

2 Reported: **Feb 25, 2022**

Project Analyst:
Darien Williams, a anien Williams

Date: **02 - 24 - 2022**

Reviewed By:

Geepha Jacob, 4

Date:

Raytown Central 10601 E 59th Street Raytown, MO 64133 #22006735

Asbestos PLM Bulk EPA 600/R-93, M-4/82-020

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

()			LI /	4 000/N-93, W-4/82-020
#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
19	10 10601 - FT - 10 - 1 - 12" Floor Tile Light Green w/ Dark Grey Speckle w/ Base Adhesive, Corridor @ Cust. Office	Tile / Gray		None Detected
		Adhesive / Yellow		None Detected
20	10 10601 - FT - 10 - 2 - 12" Floor Tile Light Green w/ Dark Grey Speckle w/ Base Adhesive, Corridor @ Cust. Office	Tile / Gray		None Detected
		Adhesive / Yellow		None Detected
21	11 10601 - FT - 11 - 1 - 12" Floor Tile Various Colors w/ Beige Adhesive, Cafeteria	Tile / White		None Detected
		Adhesive / Yellow		None Detected
22	11 10601 - FT - 11 - 2 - 12" Floor Tile Various Colors w/ Beige Adhesive, Cafeteria	Tile / Purple		None Detected
		Adhesive / Yellow		None Detected
23	12 10601 - FT - 12 - 1 - 12" Floor Tile Cream w/ White Speckle & Beige Adhesive, CL 118	Tile / White		None Detected
		Adhesive / Yellow		None Detected
24	12 10601 - FT - 12 - 2 - 12" Floor Tile Cream w/ White Speckle & Beige Adhesive, CL 118	Tile / White		None Detected
		Adhesive / Yellow		None Detected
25	13 10601 - FT - 13 - 1 - 12" Floor Tile Grey w/ Dark Grey Speckle & Beige Adhesive, CL 116	Tile / Gray		None Detected
		Adhesive / Yellow		None Detected



Collected: Feb 18, 2022

Received: Feb 23, 2022

Reported: Feb 25, 2022

Project Analyst:
Darien Williams, a lanen Williams

02 - 24 - 2022

Date:

Reviewed By: Geepha Jacob,

Ver Ver

Date:

Raytown Central 10601 E 59th Street #22006735

Asbestos PLM Bulk EPA 600/R-93, M-4/82-020

P.O. Box 47166

Kansas City, MO 64188

(816) 678-7894

Raytown, MO 64133

Asbes

`	,				LI A 000/11 30, W 4/02 020
	#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
	26	13 10601 - FT - 13 - 2 - 12" Floor Tile Grey w/ Dark Grey Speckle & Beige Adhesive, CL 116	Tile / Gray		None Detected
			Adhesive / Yellow		None Detected
	27	14 10601 - FT - 14 - 1 - 12" Floor Tile White w/ Blue Streaks, CL118 B	Tile / White		None Detected
		_	Mastic / Black		2% Chrysotile
	28	14 10601 - FT - 14 - 2 - 12" Floor Tile White w/ Blue Streaks, CL118 A	Tile / White		None Detected
			Mastic / Black		(Not Analyzed, Positive Stop)
	29	15 10601 FT - 15 - 1 - 12" Floor Tile Grey w/ Dark Grey Speckle & Beige Adhesive CL115 C	Tile / Gray		None Detected
			Adhesive / Yellow		None Detected
	30	15 10601 - FT - 15 - 2 - 12" Floor Tile Grey w/ Dark Grey Speckle & Beige Adhesive CL115 C	Tile / Gray		None Detected
			Adhesive / Yellow		None Detected
	31	16 10601 - GP - 16 - 1 - Brown Glue Pucks, Cafeteria	Adhesive / Brown		2% Chrysotile
	32	16 10601 - GP - 16 - 2 - Brown Glue Pucks, Classroom 118	Adhesive / Brown		(Not Analyzed, Positive Stop)
	33	17 10601 - BA - 17 - 1 - 4" Grey Cove Base w/ Beige Adhesive, CL118 C	Cove Base / Gray		None Detected
			Adhesive / Yellow		None Detected



Collected: Feb 18, 2022

a Jamen

Project Analyst:

Darien Williams,

Received: Feb 23, 2022

02 - 24 - 2022

Date:

Reviewed By:

Geepha Jacob,

Reported: Feb 25, 2022

if le

Date:

Kody Tramm Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Raytown Central 10601 E 59th Street Raytown, MO 64133 #22006735

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
34	17 10601 - BA - 17 - 2 - 4" Grey Cove Base w/ Beige Adhesive, CL118 C	Cove Base / Gray		None Detected
		Adhesive / Yellow		None Detected
35	18 10601 - DW - 18 - 1 - Drywall & Joint Compound - CL 115 C	Drywall / White/Brown	10% Cellulose Fibers	None Detected
		Joint Compound / White		None Detected
36	18 10601 - DW - 18 - 2 - Drywall & Joint Compound - CL 115 C	Drywall / White/Brown	10% Cellulose Fibers	None Detected
		Joint Compound / White		None Detected

MICROBIAL CONSULTING

Collected: Feb 18, 2022

Received: Feb 23, 2022

Reported: Feb 25, 2022

Project Analyst: Darien Williams,

a Jamen

Date: 02 - 24 - 2022 Reviewed By:

Geepha Jacob,

Date:

Kody Tramm Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Raytown Central 10601 E 59th Street Raytown, MO 64133

#22006735

Asbestos Analysis Information

Analysis Details	All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.
PLM Analysis	All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Materials with interfering matrix, low asbestos content, or small fiber size may require additional analysis via TEM Analysis.
TEM Analysis	Analysis by TEM is capable of providing positive identification of asbestos type(s) and semi-quantitation of asbestos content.
Definitions	'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.
New York ELAP	Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.
	Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.





Job Number:

Axiom Service Professionals

P.O. Box 47166

Kansas City, MO 64155

SHIP: FEDEX - ENV 50 DATE: 02-23-2022 ASBESTOS

8166 1959 9830

Mobile: (913) 322.3862 Email: kodyt@axiomservicepros.com

Collec	Collector: Kody Tramm						Mobile: (913) 322.3862 Email: kodyt@axiomservicepros.co					vicepros.co	
Date	Collected	water	2/18/22	Can town	, mo 64133		Note:						
	Analysis	Туре	111		Analysis Methods				Turnar	ound Time	es		
PLM	Bulk		EPA 600				3 Hour	Same Day	1 Day	2	Day	3 Day	5 Day
**************************************	Point Count 400 Point, 1000 Point					3 Hour	Same Day	1 Day	2	Day	3 Day	5 Day	
	Verr	niculite	CARB 435				3 Hour	Same Day	1 Day	2	Day	3 Day	5 Day
TEM	Air		EPA AHERA	, NIOSH 7402			-	Same Day	1 Day	2	Day	3 Day	5 Day
	Bulk		Chatfield				-	Same Day	1 Day	2	Day	3 Day	5 Day
	Wipe	9	ASTM D648	0-05			-	Same Day	1 Day	2	Day	3 Day	5 Day
	Mici	ovac	ASTM D575	5-09			-	Same Day	1 Day	2	Day	3 Day	5 Day
PCM	Air		NIOSH 740)			-	Same Day	1 Day	2	Day	3 Day	5 Day
#	Group	Nur	mber		Sample Name	160	millor@	Analysis Type	Turnaı	round	Volum	ne / Area	Stop (+)
1	1	10601-F7	1.1	9" Floor 7	The Various Colors h	1 Block Mestry or	elsa Center	PLM	SDAN		N	A	105
2	4	11	1-1	28			Sroin 212	1	1		1		1
3	7		2-1	**		" Classroo	7214						
4	4		2-2	**		11 Classons	219						
5	3		3-1	R. Flan Til	Various Colors W Beige	Musha, Finty (orribu ~						
6	7		3.2	10			- 1						
7	4		4-1	9" How Tile 1	lorrous Colors v Black 1	lutic, corridge 6	-15 RR						
8	4		4.2	11	Jones (des + Black M	1 a du	som 25						
9	5		5-1	12" Fla-Tu	ream w/ Ton: Wh. he Spe	dele w Berge Auh	1500,00	Le 201					
10	4		5.2	10	,	1 - 1	1 1 (0	in Seling Centry			1		
11	6		6-1	91 Floo-Tike	Vonous Celes w/ Black	Moster Corridora	CLZ2	3 -			1		
12	t		6.2	× .		11 0	CL 224						
13	7		7-1	12 Plas Tile	bry u While Speciale ?	Black Mistre, Ster	Muni				-		
14	P		7.2	*	7 (" Stairme	110 chz	28 1			1		
15	8		8-1	n. Por Tike	brey up While Speciale ? Green w While Specials ? B	look Mustic, Comin	ed lo	5					
16	¥		8.2	14		", "	d flev.						
17	9	4 4	9-1	9" Plan-Tile	Various Wors w/ Blat M			4	V		V		7
Relea	sed by:				Date:	Received By:	Sm					Date: 2	23/22





Axiom Service Professionals

P.O. Box 47166

Job Nama

Kansas City, MO 64155

SHIP: FEDEX - ENV 50 DATE: 02-23-2022

ASBESTOS

22006735

8166 1959 9830

Job Number: Mobile: (913) 322.3862 Email: kodyt@axiomservicepros.com Collector: Kody Tramm Date Collected: Note: Turnaround Times **Analysis Type Analysis Methods** 2 Day 5 Day Bulk **EPA 600** 3 Hour Same Day 1 Day 3 Day PLM 5 Day 1 Day 2 Day 3 Day Point Count 400 Point, 1000 Point 3 Hour Same Day 5 Day 2 Day 3 Day Vermiculite **CARB 435** 3 Hour Same Day 1 Day 2 Day 3 Day 5 Day Air EPA AHERA, NIOSH 7402 Same Day 1 Day TEM Same Day 1 Day 2 Day 3 Day 5 Day Bulk Chatfield Same Day 1 Day 2 Day 3 Day 5 Day ASTM D6480-05 Wipe 1 Day 2 Day 3 Day 5 Day ASTM D5755-09 Same Day Microvac 2 Day 3 Day 5 Day Same Day 1 Day **PCM** Air **NIOSH 7400** Volume / Area Stop (+) **Analysis Type** Turnaround # Group Number Sample Name XQ 10601-FT-9-1 PLM 1 crion Lawre and Black Marker Corribor @ CL Jule SDAY NIA 2 10-1 10 3 10-2 4 11 A 5 11-7-6 12 12-1 7 12-2 8 13-1 9 13.2 10 14-1 11 12 15-1 13 16 14 15 4 + 16.2 16 BA-17-1 Box Albery, Ch 118 C 17 BA-17-2 Date: 1 Released by: Date: Received By:

Chain of Custody

contact@hayesmicrobial.com



Collector: Kody Tramm

Job Number:

Axiom Service Professionals

P.O. Box 47166

Job Nama

Kansas City, MO 64155

SHIP: FEDEX - ENV 50 DATE: 02-23-2022

ASBESTOS

8166 1959 9830

Mobile: (913) 322.3862 Email: kodyt@axiomservicepros.com

Date Collected:				-	Note:					
Analysis Type			Analysis Methods		Turnaround Times					
PLM	Bulk EPA 600				3 Hour	Same Day	1 Day	2 Day	3 Day	5 Day
	Point Count 400 Point, 1		00 Point		3 Hour	Same Day	1 Day	2 Day	3 Day	5 Day
	Vermiculite CARB 435				3 Hour	Same Day	1 Day	2 Day	3 Day	5 Day
TEM	Air	EPA AHERA, I	NIOSH 7402		-	Same Day	1 Day	2 Day	3 Day	5 Day
	Bulk	Chatfield		4	-	Same Day	1 Day	2 Day	3 Day	5 Day
	Wipe ASTM		-05	N.	-	Same Day	1 Day	2 Day	3 Day	5 Day
	Microvac ASTM D575		-09		-	Same Day	1 Day	2 Day	3 Day	5 Day
PCM Air NIOSH 7400		NIOSH 7400			-	Same Day	1 Day	2 Day	3 Day	5 Day

PCM	Air	NIOSH 7400			Same Day	1 Day 2	Day 3 Day	o buy
#	Group	Number	Sample Name	_	Analysis Type	Turnaround	Volume / Area	Stop (+)
1	18	10601-0W-18-1	Dynah & Jork Corporad - CL 1186		PLM	SDAY	NIA	Yes
2	4	t \$ 18.2	" +		+	古	4	4
3			Y .					
4			₹					
5			V.					
6								
7								
8								
9								
10								
11								
12			1					
13								
14							,	
15								
16								
17							12.0	

Released by:

Date: 2/22/12

Received By:

SM

Appendix B Certification



Missouri Department of

dnr.mo.gov





NATURAL RESOURCES

Michael L. Parson, Governor

July 27, 2021

Kody L Tramm 111 West 5th St Edgerton, KS 66021 Dru Buntin, Acting Director CERTIFICATION NUMBER:

7011070821MOIR19410

THIS CERTIFIES

Kody L Tramm

HAS COMPLETED THE CERTIFICATION

Inspector

APPROVED: 07/27/2021
EXPIRES: 07/27/2022

TRAINING DATE 07/08/2021

Aury Trayle

RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011070821MOIR19410

Course Training Date: July 08, 2021

Missouri Certification Approval Date: July 27, 2021 Missouri Certification Expiration Date: July 27, 2022

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
 - Sections 643.225 to 643.250, RSMo;
 - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
 - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

200 to Bylen



January 20, 2022

Mr. Josh Hustad Director of Facilities and Grounds Raytown School District Raytown, Missouri

Limited Asbestos Sampling

Date Performed: **December 29, 2021**Location: **Southwood Elementary School**

Address: **8015 Raytown Road, Raytown, Missouri 64138**Area Description: **1**st **Floor and Basement Corridors/Hallways**

Requested By: Josh Hustad

Reason for Request: Planned Renovations

Performed By: Kody Tramm

Certification #: 7011070821MOIR19410

Dear Mr. Hustad:

Axiom Service Professionals (ASP) conducted the limited asbestos sampling detailed above. The sampling was conducted to determine asbestos content of suspect materials prior to planned renovations.

Asbestos samples were collected in accordance with EPA AHERA, and other applicable local, state, and federal asbestos guidelines and regulations. The samples were submitted to Hayes Microbial for analysis. The lab is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and the NVLAP Lab code number is 5000-96-0. The bulk samples were analyzed by polarized light microscopy (PLM) using EPA Method Reference 600/M4-82-020 and 600/R-93/116.

A material is considered to be an asbestos-containing material (ACM) if at least one sample collected from the material showed asbestos present in an amount greater than one percent (1%), in accordance with the definition of ACM per the Environmental Protection Agency (EPA). Laboratory results may indicate that some materials listed below contain trace amounts (<1%) of asbestos. If so, the material does not meet the EPA definition of asbestos-containing material (1% or greater) and therefore, such material would not be regulated by EPA National Emissions Standards for Hazardous Air Pollutants (NESHAPS). However, these materials would still be regulated under OSHA 29 CFR 1926.1101 the Asbestos Worker Construction Standard which sets protocols for the protection of workers who may encounter asbestos during their work activities.

The sampling was performed only on suspect materials that may be impacted by renovations in the areas described above. Laboratory results and the chain of custody can be found attached as Appendix A.

All materials listed below highlighted in red text are federally regulated regarding abatement methods, worker training, and notification of building occupants, employees, and contractors.

Sample #	Sample Description	Area Description	Friability	% Asbestos*
SE-FTM 1-1, 1-2	9" Floor Tile with Black Mastic, Various Colors	1 st Floor Corridor @ Classroom 21 Classroom 29	Non-Friable	4% Chrysotile (Floor Tile Layer) <1% Chrysotile (Mastic Layer)
SE-FTM 2-1, 2-2	9" Floor Tile with Black Mastic, Various Colors	1 st Floor Corridor @ Classroom 11 Classroom 16	Non-Friable	5% Chrysotile (Floor Tile Layer) NAD (Mastic Layer)
SE-FTM 3-1, 3-2	12" Floor Tile with Black Mastic, Tan	1 st Floor Corridor @ TL2 Classroom 31	Non-Friable	NAD
SE-FTM 4-1, 4-2	9" Floor Tile with Black Mastic, Various Colors	Basement Corridor @ Classroom 9 Classroom 4	Non-Friable	6% Chrysotile (Floor Tile Layer) <1% Chrysotile (Mastic Layer)

NAD - No Asbestos Detected

Axiom Service Professionals appreciates the opportunity to serve you. If you have any questions, please feel free to call or email.

Sincerely,

Kody Tramm 913-322-3862

kodyt@axiomservicepros.com

Limitations of Inspection

Axiom Service Professionals collected samples of suspect asbestos containing materials that will be impacted by planned renovations only. Other suspect materials within the rooms were not sampled and should be presumed to be asbestos containing until sampling proves otherwise.

^{* -} Asbestos percentage in the table reflects the highest reported concentration. The full laboratory report is attached as Appendix A.

Appendix A Laboratory Analytical Report





Analysis Report prepared for

Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188

Phone: (816) 678-7894

Southwood Elementary

Collected: December 24, 2021 Received: January 12, 2022 Reported: January 17, 2022 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 8 samples by FedEx in good condition for this project on January 12th, 2022.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Eplan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Southwood Elementary

#22001263

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
"	·	•		
1	#1 SE-FTM-1-1 - 9" Floor Tile W/ Black Mastic, Various Colors, 1st Floor Corr. @ Classroom 21	Tile / Lt.Brown	<1% Fibrous Other	4% Chrysotile
		Mastic / Black		<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
2	#1 SE-FTM-1-2 - 9" Floor Tile W/ Black Mastic, Various Colors, @ Classroom 29	Tile / Lt.Brown	<1% Fibrous Other	3% Chrysotile <1% Anthophyllite
		Mastic / Black		<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
3	#2 SE-FTM-2-1 - 9" Floor Tile W/ Black Mastic, Various Colors, @ Classroom 11	Tile / Brown	<1% Fibrous Other	5% Chrysotile
		Mastic / Black		None Detected
4	#2 SE-FTM-2-2 - 9" Floor Tile W/ Black Mastic, Various Colors, @ Classroom 16	Tile / Brown	<1% Fibrous Other	4% Chrysotile
		Mastic / Black	2% Cellulose Fibers	None Detected
5	#3 SE-FTM-3-1 - 12" Floor Tile Tan W/ Black Mastic, @ TL2	Tile / Tan	2% Cellulose Fibers	None Detected
	Lab Note: Recommend TEM Analysis.			
		Mastic / Black	5% Cellulose Fibers	None Detected



Collected: Dec 24, 2021

Geepha Jacob,

Received: Jan 12, 2022

Reported: Jan 17, 2022

Date: 01 - 17 - 2022

Samuel Settle, Jamue

Date:

01 - 17 - 2022

Southwood Elementary

#22001263

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
6	#3 SE-FTM-3-2 - 12" Floor Tile Tan W/ Black Mastic, @ Classroom 31	Tile / Tan		None Detected
	Lab Note: Recommend TEM Analysis.			
		Mastic / Black	5% Cellulose Fibers	None Detected
7	#4 SE-FTM-4-1 - 9" Floor Tile W/ Black Mastic, Various Colors, @ Classroom 9 BSMT Corr.	Tile / Dark Brown		6% Chrysotile
		Mastic / Black	<1% Fibrous Other	<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
8	#4 SE-FTM-4-2 - 9" Floor Tile W/ Black Mastic, Various Colors, @ Classroom 4 BSMT Corr.	Tile / Dark Brown		6% Chrysotile
		Mastic / Black	<1% Fibrous Other	<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			



Collected: Dec 24, 2021

Geepha Jacob,

Received: Jan 12, 2022

Reported: Jan 17, 2022

Date:

01 - 17 - 2022

Samuel Settle, Jamue

Date:

01 - 17 - 2022

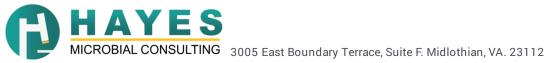
Southwood Elementary

#22001263

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos Analysis Information

Analysis Details	All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.
PLM Analysis	All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Materials with interfering matrix, low asbestos content, or small fiber size may require additional analysis via TEM Analysis.
TEM Analysis	Analysis by TEM is capable of providing positive identification of asbestos type(s) and semi-quantitation of asbestos content.
Definitions	'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.
New York ELAP	Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.
	Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.





Axiom Service Professionals

P.O. Box 47166

Kansas City, MO 64155

SHIP: DATE:

SHIP: FEDEX - PAK 50 DATE: 01-12-2022

ASBESTOS

8166 1959 9760

Job Name: Job Number: Southwood Elementory Mobile: 913. 322.3862 Email: kodyt@axiomservicepros.com Collector: Kody Tramm Date Collected: 12/24/21 Note: **Turnaround Times Analysis Type Analysis Methods** 5 Day Bulk EPA 600 3 Hour Same Day 1 Day 2 Day 3 Day PLM 2 Day 3 Day 5 Day Point Count 400 Point, 1000 Point 3 Hour Same Day 1 Day 2 Day 3 Day 5 Day **CARB 435** 3 Hour Same Day 1 Day Vermiculite Same Day 1 Day 2 Day 3 Day 5 Day TEM Air EPA AHERA, NIOSH 7402 Bulk Chatfield Same Day 1 Day 2 Day 3 Day 5 Day ASTM D6480-05 Same Day 1 Day 2 Day 3 Day 5 Day Wipe 1 Day 2 Day 3 Day 5 Day ASTM D5755-09 Same Day Microvac 1 Day 2 Day 3 Day 5 Day Same Day **PCM** Air **NIOSH 7400**

#	Group	Number	Sample Name	215+ Flow F.	Analysis Type	Turnaround	Volume / Area	Stop (+)
1	11	SE-FTM-1-1	9" Floor Tile of Black Mustice, Verious	alors @ Classian 71	PLM	5	NIA	NO SHE
2	4	1 1-2	- <u>-</u> 1 &	@ classion 29	1	1 2	<u></u>	
3	p12	2.1		@ clusion 11				
4	4	7.2	4	@ clossion 16				
5	B3	3.1	M" Flor Tile Ton of Black Mostic @ 9" Flor Tile & Black Mistic Verrous Color	Tiz				
6	4	3.1	4 (@	(cs5rown 31				
7	HY	1 4.1	9" Flor The Black Mistre Versons Color	s , a clusicon 9 Bon	Tom			
8	4	T T 4.2	1	a classoon 1 BSM	丁上女	To	V	:4
9								
10								
11								
12								
13								
14								
15								
16		u u						
17								
Rele	ased by:		Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	eceived By: SMC			Date:	25/21

Hayes Microbial Consulting, LLC.

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

Form #20, Rev.3, March 23, 2019 Chain of Custody

Appendix B Certification



Missouri Department of

dnr.mo.gov





NATURAL RESOURCES

Michael L. Parson, Governor

July 27, 2021

Kody L Tramm 111 West 5th St Edgerton, KS 66021 Dru Buntin, Acting Director CERTIFICATION NUMBER:

7011070821MOIR19410

THIS CERTIFIES

Kody L Tramm

HAS COMPLETED THE CERTIFICATION

Inspector

APPROVED: 07/27/2021
EXPIRES: 07/27/2022

TRAINING DATE 07/08/2021

Aury Trayle

RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011070821MOIR19410

Course Training Date: July 08, 2021

Missouri Certification Approval Date: July 27, 2021 Missouri Certification Expiration Date: July 27, 2022

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
 - Sections 643.225 to 643.250, RSMo;
 - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
 - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

200 to Bylen



January 20, 2022

Mr. Josh Hustad Director of Facilities and Grounds Raytown School District Raytown, Missouri

Limited Asbestos Sampling

Date Performed: **December 29, 2021**Location: **Northwood Elementary School**

Address: 8015 Raytown Road, Raytown, Missouri 64138

Area Description: 1st Floor and Basement Corridors/Hallways, Basement FACS Classroom

Requested By: Josh Hustad

Reason for Request: Planned Renovations

Performed By: Kody Tramm

Certification #: 7011070821MOIR19410

Dear Mr. Hustad:

Axiom Service Professionals (ASP) conducted the limited asbestos sampling detailed above. The sampling was conducted to determine asbestos content of suspect materials prior to planned renovations.

Asbestos samples were collected in accordance with EPA AHERA, and other applicable local, state, and federal asbestos guidelines and regulations. The samples were submitted to Hayes Microbial for analysis. The lab is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and the NVLAP Lab code number is 5000-96-0. The bulk samples were analyzed by polarized light microscopy (PLM) using EPA Method Reference 600/M4-82-020 and 600/R-93/116.

A material is considered to be an asbestos-containing material (ACM) if at least one sample collected from the material showed asbestos present in an amount greater than one percent (1%), in accordance with the definition of ACM per the Environmental Protection Agency (EPA). Laboratory results may indicate that some materials listed below contain trace amounts (<1%) of asbestos. If so, the material does not meet the EPA definition of asbestos-containing material (1% or greater) and therefore, such material would not be regulated by EPA National Emissions Standards for Hazardous Air Pollutants (NESHAPS). However, these materials would still be regulated under OSHA 29 CFR 1926.1101 the Asbestos Worker Construction Standard which sets protocols for the protection of workers who may encounter asbestos during their work activities.

The sampling was performed only on suspect materials that may be impacted by renovations in the areas described above. Laboratory results and the chain of custody can be found attached as Appendix A.

All materials listed below highlighted in red text are federally regulated regarding abatement methods, worker training, and notification of building occupants, employees, and contractors.

Sample #	Sample Description	Area Description	Friability	% Asbestos*
NE-FTM 1-1, 1-2, 1-3, 1-4	9" Floor Tile with Black Mastic, Various Colors	1 st Floor Corridor @ Classroom 104 Classroom 107 Classroom 112 Classroom 114	Non-Friable	4% Chrysotile (Floor Tile Layer) NAD (Mastic Layer)
NE-FTM 2-1, 2-2	12" Floor Tile with Black Mastic, Tan	1 st Floor Corridor @ Timeout Room	Non-Friable	NAD
NE-FTM 3-1, 3-2	9" Floor Tile with Black Mastic, Various Colors	Basement Corridor @ Classroom 1 Boiler Room	Non-Friable	4% Chrysotile (Floor Tile Layer) NAD (Mastic Layer)
NE-FTM 4-1, 4-2	12" Floor Tile with Black Mastic, Grey	Basement FACS Classroom	Non-Friable	<1% Chrysotile (Floor Tile Layer) 6% Chrysotile (Mastic Layer)
NE-DW 5-1, 5-2	Drywall and Joint Compound	Basement FACS Classroom	Non-Friable	NAD
NE-CBA 6-1, 6-2	Black Cove Base with Brown and Beige Adhesive	Basement FACS Classroom	Non-Friable	NAD

NAD - No Asbestos Detected

Axiom Service Professionals appreciates the opportunity to serve you. If you have any questions, please feel free to call or email.

Sincerely,

Kody Tramm 913-322-3862

kodyt@axiomservicepros.com

Limitations of Inspection

Axiom Service Professionals collected samples of suspect asbestos containing materials that will be impacted by planned renovations only. Other suspect materials within the rooms were not sampled and should be presumed to be asbestos containing until sampling proves otherwise.

^{* -} Asbestos percentage in the table reflects the highest reported concentration. The full laboratory report is attached as Appendix A.

Appendix A Laboratory Analytical Report





Analysis Report prepared for

Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188

Phone: (816) 678-7894

Northwood Elementary

Collected: December 29, 2021 Received: January 12, 2022 Reported: January 17, 2022 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 14 samples by FedEx in good condition for this project on January 12th, 2022.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Eplan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

#22001266

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
1	#1 NE-FTM-1-1 - 9" Floor Tile W/ Black Mastic, Various Colors, 1st Floor Corr., @ Classroom 104	Tile / Brown	<1% Fibrous Other	4% Chrysotile
	-	Mastic / Black		None Detected
2	#1 NE-FTM-1-2 - 9" Floor Tile W/ Black Mastic, Various Colors, 1st Floor Corr., @ Classroom 107	Tile / Brown	<1% Fibrous Other	4% Chrysotile
		Mastic / Black		None Detected
3	#1 NE-FTM-1-3 - 9" Floor Tile W/ Black Mastic, Various Colors, 1st Floor Corr., @ Classroom 112	Tile / Brown	<1% Fibrous Other	4% Chrysotile
		Mastic / Black		None Detected
4	#1 NE-FTM-1-4 - 9" Floor Tile W/ Black Mastic, Various Colors, 1st Floor Corr., @ Classroom 114	Tile / Dark Brown		None Detected
		Mastic / Black/Brown	2% Cellulose Fibers	None Detected
5	#2 NE-FTM-2-1 - 12" Tan Floor Tile W/ Black Mastic, 1st Floor Corr., @ Time Out Room	Tile / White		None Detected
		Mastic / Black		None Detected
6	#2 NE-FTM-2-2 - 12" Tan Floor Tile W/ Black Mastic, 1st Floor Corr., @ Time Out Room	Tile / White		None Detected
		Mastic / Black		None Detected
7	#3 NE-FTM-3-1 - 9" Floor Tile W/ Black Mastic, Various Colors BSMT Corr. @ Classroom 1	Tile / Red	3% Cellulose Fibers	<1% Chrysotile
		Mastic / Black		None Detected



Collected: Dec 29, 2021

Received: Jan 12, 2022

Reported: Jan 17, 2022

Project Analyst:

Geepha Jacob,

01 - 17 - 2022

Date:

Reviewed By: Samuel Settle, Samuel Settle,

Date: **01 - 17 - 2022**

#22001266

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
8	#3 NE FTM-3-2 - 9" Floor Tile W/ Black Mastic, Various Colors BSMT Corr. @ Boiler Room	Tile / Tan	<1% Fibrous Other	4% Chrysotile
	-	Mastic / Black		None Detected
9	#4 NE-FTM-4-1 - 12" Floor Tile Grey W/ Black Mastic, BSMT FACS Classroom	Tile / White	5% Cellulose Fibers	<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
	-	Mastic / Black		6% Chrysotile
10	#4 NE-FTM-4-2 - 12" Floor Tile Grey W/ Black Mastic, BSMT FACS Classroom	Tile / White		<1% Chrysotile
	Lab Note: Presence of Asbestos May Be Due to Contamination from Adjacent Material.			
	-	Mastic / Black		6% Chrysotile
11	#5 NE-FTM-5-1 - Drywall + Joint Compound, BSMT FACS Classroom	Drywall / White/Brown	12% Cellulose Fibers	None Detected
	-	Joint Compound / White		None Detected
12	#5 NE-FTM-5-2 - Drywall + Joint Compound, BSMT FACS Classroom	Drywall / White/Brown	10% Cellulose Fibers	None Detected
	-	Joint Compound / White		None Detected
13	#6 NE-CBA-6-1 - Black Cove Base W/ Brown & Beige Adhesive, BSMT FACS	Cove Base / Black		None Detected
		Mastic / Brown	<1% Wood Fibers	None Detected



Collected: Dec 29, 2021

Received: Jan 12, 2022

Date:

01 - 17 - 2022

Reviewed By: Samuel Settle, January Settle Date:

01 - 17 - 2022

Reported: Jan 17, 2022

#22001266

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
14	#6 NE-CBA-6-2 - Black Cove Base W/ Brown & Beige Adhesive, BSMT FACS Classroom	Cove Base / Black		None Detected
	-	Mastic / Brown	<1% Fibrous Other	None Detected



Collected: Dec 29, 2021

Received: Jan 12, 2022

Reported: Jan 17, 2022

Project Analyst: Geepha Jacob,

st: o, 4

01 - 17 - 2022

Date:

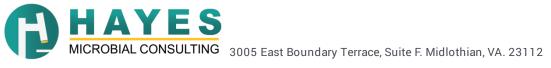
Reviewed By: Samuel Settle, Samuel Settle Date: **01 - 17 - 2022**

#22001266

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos Analysis Information

Analysis Details	All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.
PLM Analysis	All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Materials with interfering matrix, low asbestos content, or small fiber size may require additional analysis via TEM Analysis.
TEM Analysis	Analysis by TEM is capable of providing positive identification of asbestos type(s) and semi-quantitation of asbestos content.
Definitions	'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.
New York ELAP	Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.
	Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.





Job Number:

Axiom Service Professionals

P.O. Box 47166

Job Name:

Kansas City, MO 64155

SHIP: FEDEX - PAK 50 DATE: 01-12-2022



8166 1959 9760

00011441						# H H H H H H H H H H	Simil a minimum and the state of			
		dy Tramm		Northmod Elementery	Морне	413.3223	S6Z Ema	il: kodyt	t@axioms	ervicepros.
Date Co	llected	12/29/21		3	Note:				Washington and The Control of the Co	
	Analysis	Туре		Analysis Methods		AND COMMON TO THE PARTY OF THE	Turnaround	Times	NAME OF THE PERSON OF THE OWN	AND DESCRIPTION OF THE PARTY OF
PLM	Bulk		EPA 600		3 Hour	Same Day	1 Day	2 Day	3 Day	5 Day
	Poin	nt Count	400 Point, 1	000 Point	3 Hour	Same Day	1 Day	2 Day	3 Day	5 Day
	Vern	niculite	CARB 435		3 Hour	Same Day	1 Day	2 Day	3 Day	5 Day
TEM	Air		EPA AHERA,	NIOSH 7402	-	Same Day	1 Day	2 Day	3 Day	5 Day
	Bulk		Chatfield		-	Same Day	1 Day	2 Day	3 Day	5 Day
	Wipe	e	ASTM D648	0-05	-	Same Day	1 Day	2 Day	3 Day	5 Day
	Micr	rovac	ASTM D575	5-09	-	Same Day	1 Day	2 Day	3 Day	5 Day
PCM	Air	alfort manufathas providents planted and state of page based as	NIOSH 7400		-	Same Day	1 Day	2 Day	3 Day	5 Day
#	Group	Nur	nber	Sample Name		Analysis Type	Turnaround	Volu	me / Area	Stop (+)
	11	NE-FTM-	1-1	9" Floor Tile 1 Black Mestic, Various Colors 1st Floor @ []	25500m 104	PLM	Sanco	\ \ \ \	SIA	Vers N
2	1	1 1	1.2		107		\ \	2	1	
3			1-3		1112					
4	*		1-4	* *	\$ 114					
	12		2-1	12" Ton Floor The up Black Moste, 1st Floor, & Time 1	Jul Room					
6	A		2.2	4	V					
	3		3-1	9" Floor The wy Block Moster, Various Colors BSMT@	Clessroom 1				1	/_
8	<u> </u>	11-1-	3.2	4 66	boiler Room					
	ŀЧ		4-1	12- Floor Tile Grey of Blockmestic, BSMT FACS	Classroom					
10	<u> </u>	1 1	4,2	7						
	5	NE-DM.	5-1	9" Floor Tile w/ Black Moster, 1st Floor, & Time of the Floor Tile w/ Black Moster, Various Colors BSMT@ + 4 @C 12" Floor Tile Grey w/ Black Mastin, BSMT FACS Drywoll & Joint Compound, BSMT FACS Classing	~0v		<u> </u>			
12	7		5-2	*					1	
	16	-CBA-	6-1	Block Combise of Brown & Brige Adhesive, BSMT	FACS				1	
14	7	1 L-	6-2	, 4 4	clossrow	4	A		4	*
15							ļ			
16										
17	*******************************				****					

Appendix B Certification



Missouri Department of

dnr.mo.gov





NATURAL RESOURCES

Michael L. Parson, Governor

July 27, 2021

Kody L Tramm 111 West 5th St Edgerton, KS 66021 Dru Buntin, Acting Director CERTIFICATION NUMBER:

7011070821MOIR19410

THIS CERTIFIES

Kody L Tramm

HAS COMPLETED THE CERTIFICATION

Inspector

APPROVED: 07/27/2021
EXPIRES: 07/27/2022

TRAINING DATE 07/08/2021

Aury Trayle

RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011070821MOIR19410

Course Training Date: July 08, 2021

Missouri Certification Approval Date: July 27, 2021 Missouri Certification Expiration Date: July 27, 2022

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
 - Sections 643.225 to 643.250, RSMo;
 - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
 - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

200 to Bylen



January 20, 2022

Mr. Josh Hustad Director of Facilities and Grounds Raytown School District Raytown, Missouri

Limited Asbestos Sampling

Date Performed: **December 29, 2021**Location: **Laurel Hills Elementary School**

Address: 5401 Lane Avenue, Raytown, Missouri 64133

Area Description: 1st Floor Corridors/ Hallways

Requested By: Josh Hustad

Reason for Request: Planned Renovations

Performed By: Kody Tramm

Certification #: 7011070821MOIR19410

Dear Mr. Hustad:

Axiom Service Professionals (ASP) conducted the limited asbestos sampling detailed above. The sampling was conducted to determine asbestos content of suspect materials prior to planned renovations.

Asbestos samples were collected in accordance with EPA AHERA, and other applicable local, state, and federal asbestos guidelines and regulations. The samples were submitted to Hayes Microbial for analysis. The lab is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and the NVLAP Lab code number is 5000-96-0. The bulk samples were analyzed by polarized light microscopy (PLM) using EPA Method Reference 600/M4-82-020 and 600/R-93/116.

A material is considered to be an asbestos-containing material (ACM) if at least one sample collected from the material showed asbestos present in an amount greater than one percent (1%), in accordance with the definition of ACM per the Environmental Protection Agency (EPA).

The sampling was performed only on suspect materials that may be impacted by renovations in the areas described above. Laboratory results and the chain of custody can be found attached as Appendix A.

All materials listed below highlighted in red text are federally regulated regarding abatement methods, worker training, and notification of building occupants, employees, and contractors.

Sample #	Sample Description	Area Description	Friability	% Asbestos*
LHE-FTM 1-1, 1-2, 1-3, 1-4, 1-5, 1-6	12" Floor Tile with Black Mastic, Cream	1st Floor Corridor @ Classroom 22 Classroom 3 Main Office A1 Classroom 11 Classroom 15	Non-Friable	2% Chrysotile (Floor Tile Layer) 6% Chrysotile (Mastic Layer)
LHE-FTM 2-1, 2-2	12" Floor Tile with Beige Adhesive, Grey	1 st Floor Corridor @ Classroom 31 Classroom 33	Non-Friable	NAD

NAD - No Asbestos Detected

Axiom Service Professionals appreciates the opportunity to serve you. If you have any questions, please feel free to call or email.

Sincerely,

Kody Tramm 913-322-3862

kodyt@axiomservicepros.com

Limitations of Inspection

Axiom Service Professionals collected samples of suspect asbestos containing materials that will be impacted by planned renovations only. Other suspect materials within the rooms were not sampled and should be presumed to be asbestos containing until sampling proves otherwise.

^{* -} Asbestos percentage in the table reflects the highest reported concentration. The full laboratory report is attached as Appendix A.

Appendix A Laboratory Analytical Report





Analysis Report prepared for

Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188

Phone: (816) 678-7894

Laurel Hills Elementary

Collected: December 24, 2021 Received: January 12, 2022 Reported: January 17, 2022 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 8 samples by FedEx in good condition for this project on January 12th, 2022.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Eplan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Laurel Hills Elementary

#22001264

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
1	#1 LHE-FTM-1-1 - 12" Cream Floor Tile W/ Black Mastic, 1st Floor Corr., @ Classroom 22	Tile / Lt.Brown		2% Chrysotile
		Mastic / Black		6% Chrysotile
2	#1 LHE-FTM-1-2 - 12" Cream Floor Tile W/ Black Mastic, 1st Floor Corr., @ Classroom 3	Tile / Lt.Brown		2% Chrysotile
		Mastic / Black		6% Chrysotile
3	#1 LHE-FTM-1-3 - 12" Cream Floor Tile W/ Black Mastic, 1st Floor Corr., @ Main Office	Tile / Lt.Brown		2% Chrysotile
		Mastic / Black		6% Chrysotile
4	#1 LHE-FTM-1-4 - 12" Cream Floor Tile W/ Black Mastic, 1st Floor Corr., @ A1	Tile / Lt.Brown		2% Chrysotile
		Mastic / Black		6% Chrysotile
5	#1 LHE-FTM-1-5 - 12" Cream Floor Tile W/ Black Mastic, 1st Floor Corr., @ Classroom 11	Tile / Lt.Brown		2% Chrysotile
		Mastic / Brown		6% Chrysotile
6	#1 LHE-FTM-1-6 - 12" Cream Floor Tile W/ Black Mastic, 1st Floor Corr., @ Classroom 15	Tile / Lt.Brown		2% Chrysotile
		Mastic / Black		6% Chrysotile



Collected: Dec 24, 2021

Received: Jan 12, 2022

Reported: Jan 17, 2022

Project Analyst:
Geepha Jacob,

01 - 17 - 2022

Date:

Reviewed By: Samuel Settle, Samuel Settle

Date: **01 - 17 - 2022**

Laurel Hills Elementary

#22001264

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
7	#2 LHE-FTM-2-1 - 12" Gray Floor Tile W/ Beige Adhesive, @ Classroom 31	Tile / Gray/Tan		None Detected
	Lab Note: Recommend TEM Analysis.			
		Adhesive / Tan		None Detected
8	#2 LHE-FTM-2-2 - 12" Gray Floor Tile W/ Beige Adhesive, @ Classroom 33	Tile / Gray/Tan		None Detected
	Lab Note: Recommend TEM Analysis.			
		Adhesive / Tan		None Detected

HAYES
MICROBIAL CONSULTING

Collected: Dec 24, 2021

Received: Jan 12, 2022

Reported: Jan 17, 2022

Project Analyst: Geepha Jacob,

y Ne

01 - 17 - 2022

Date:

Reviewed By: Samuel Settle, Samuel Settle

Date:

01 - 17 - 2022

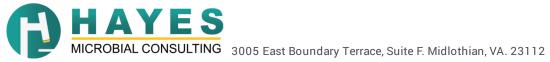
Laurel Hills Elementary

#22001264

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos Analysis Information

Analysis Details	All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.
PLM Analysis	All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Materials with interfering matrix, low asbestos content, or small fiber size may require additional analysis via TEM Analysis.
TEM Analysis	Analysis by TEM is capable of providing positive identification of asbestos type(s) and semi-quantitation of asbestos content.
Definitions	'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.
New York ELAP	Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.
	Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.





Job Number:

Axiom Service Professionals

P.O. Box 47166

Job Name:

Kansas City, MO 64155

SHIP: FEDEX - PAK 50 DATE: 01-12-2022

ASBESTOS

8166 1959 9760

Note: Note	Collector:	Kody Tramm		1 1111. (1)	Mobil	o. Q12 222	ed a Ema	oil: Isadi 4@a	
PLM Bulk EPA 600 Same Day 1 Day 2 Day 3 Day	Date Collected: 12/19/21 Note:					an. kodyt@a	xiomservicepros.c		
Point Count			Transmission to the base to be designed and	Analysis Methods			Turnaround	Times	
Vermiculite	PLM B	Bulk	EPA 600		3 Hour	Same Day	1 Day	2 Day	3 Day 5 Day
Air EPA AHERA, NIOSH 7402 - Same Day 1 Day 2 Day 3 Day Bulk Chatfield - Same Day 1 Day 2 Day 3 Day Wipe ASTM D6480-05 - Same Day 1 Day 2 Day 3 Day Microvac ASTM D6755-09 - Same Day 1 Day 2 Day 3 Day PCM Air NIOSH 7400 - Same Day 1 Day 2 Day 3 Day PCM Air NIOSH 7400 - Same Day 1 Day 2 Day 3 Day 1 Day 2 Day 3 Day 3 Day PCM Air NIOSH 7400 - Same Day 1 Day 2 Day 3 Day 1 Day 2 Day 3 Day 2 Day 3 Day 3 Day 4 Day 2 Day 3 Day 4 Day 2 Day 3 Day 4 Day 2 Day 3 Day 4 Day 2 Day 3 Day 4 Day 2 Day 3 Day 5 Day 6 Day 6 Day 7 Day 8 Day 8 Day 8 Day 9 D	P	Point Count	400 Point, 1	000 Point	3 Hour	Same Day	1 Day	2 Day	
Bulk Chaffield Same Day 1 Day 2 Day 3 Day	V	/ermiculite	CARB 435		3 Hour	Same Day	1 Day	2 Day	
Wipe	TEM A	Air	EPA AHERA,	, NIOSH 7402	-	Same Day	1 Day	2 Day	3 Day 5 Day
Microvac ASTM D5755-09 Same Day 1 Day 2 Day 3 Day	В	Bulk	Chatfield		-	Same Day	1 Day	2 Day	3 Day 5 Day
Air NIOSH 7400 Same Day 1 Day 2 Day 3 Day	٧	Vipe	ASTM D648	30-05	-	Same Day	1 Day	2 Day	3 Day 5 Day
# Group Number Sample Name / F Flor Corn Analysis Type Turnaround Volume / Area 1	N	//icrovac	ASTM D575		-	Same Day	1 Day	2 Day	3 Day 5 Day
1	PCM A	Air	NIOSH 7400	0	-	Same Day	1 Day	2 Day	3 Day 5 Day
1	# Group	Nur	nber	Sample Name //5+ Flu	or Corn	Analysis Type	Turnaround	Volume /	Area Stop (+)
4 1-4 (a) A1 5 1-4 (b) A1 6 4 7 1-4 (c) A1 7 1-7 1-7 1-7 1-7 1-7 1-7 1-7 1-7 1-7 1-	1 A1	LHE-FTM	-1-1	12" (remon Plans Tile and Black Martin Delass	77	PLM	C 3 DAN	NIC	1 1 5
1-4	2	1 1	1.2	1 6 /100	100 3	1	1	5 11/1	,
6 4 1 1 1 4 6 clessroom 15 7 HZ LHE-FTM. 2-1 12" bay Placer The of Berge Adhesin & Clessroom 31 8 4 5 7.2 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		1-3	@ M.	1860				
5 15 16 17 17 17 18 18 18 18 18	4		1-4	@ 41	0.4.0				
7 HZ LHE-FTM-2:1 12" 612 Plant The Berge Alberta (20 Classroom 3) 8 + 1 7.2 9 Classroom 32 10 Classroom 32 11 Classroom 32 11 Classroom 32 12 Classroom 32 13 Classroom 32 14 Classroom 32 15 Classroom 32 16 Classroom 31 17 Classroom 31 18 Classroom 32 19 Classroom 32 10 Classroom 32 10 Classroom 32 11 Classroom 32 11 Classroom 32 12 Classroom 32 13 Classroom 32 14 Classroom 32 15 Classroom 32 16 Classroom 32 17 Classroom 32 18 Classroom 32 19 Classroom 32 10 Classroom 32 10 Classroom 32 11 Classroom 32 11 Classroom 32 12 Classroom 32 13 Classroom 32 14 Classroom 32 16 Classroom 32 17 Classroom 32 18 Classroom 32 19 Classroom 32 10 Classroom 32 10 Classroom 32 11 Classroom 32 11 Classroom 32 11 Classroom 32 12 Classroom 32 13 Classroom 32 14 Classroom 32 15 Classroom 32 16 Classroom 32 17 Classroom 32 18 Classroom 32 19 Classroom 32 10 Classroom 32 10 Classroom 32 11 Classroom 32 11 Classroom 32 12 Classroom 32 13 Classroom 32 14 Classroom 32 16 Classroom 32 17 Classroom 32 18 Classroom 32 18 Classroom 32 19 Classroom 32 10 Classroom 32 10 Classroom 32 10 Classroom 32 11 Classroom 32 11 Classroom 32 12 Classroom 32 13 Classroom 32 14 Classroom 32 16 Classroom 32 17 Classroom 32 18 Classroom 32 18 Classroom 32 18 Classroom 32 19 Classroom 32 10 Classro	5		r5	O Classe	nan 11				
7 HZ LHE-FTM-2-1 12" 600 Ploor The of Beign Adhering @ (16551000m 31) 8	6	1	1.1.	1 1 1 1 1 1 1 1 1 1	1				
9	7 42	LHE-FTM.	2-1	12" been Plant Til VI Being Adhesin @ 1/1650	nom 31				
9	8 4	专与	7.2	t Octor	22	+	₹V	1	40
11	9			0,55	00.1 23	X			
2 3	0	-			***************************************	The Ford Control of the State o			
3 4 5 6 7	1					· · · · · · · · · · · · · · · · · · ·			
4 5 6 7	12								
5 6 7	3		~						
6 7 7 T T T T T T T T T T T T T T T T T	4								
7	5								
	6								
	7	_							
Released by: Pate:	Released by	1/1		Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	d By: Sime		A Joseph Company of the Company of t	Dat	e: 1/12/22

Appendix B Certification



Missouri Department of

dnr.mo.gov





NATURAL RESOURCES

Michael L. Parson, Governor

July 27, 2021

Kody L Tramm 111 West 5th St Edgerton, KS 66021 Dru Buntin, Acting Director CERTIFICATION NUMBER:

7011070821MOIR19410

THIS CERTIFIES

Kody L Tramm

HAS COMPLETED THE CERTIFICATION

Inspector

APPROVED: 07/27/2021
EXPIRES: 07/27/2022

TRAINING DATE 07/08/2021

Aury Trayle

RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011070821MOIR19410

Course Training Date: July 08, 2021

Missouri Certification Approval Date: July 27, 2021 Missouri Certification Expiration Date: July 27, 2022

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
 - Sections 643.225 to 643.250, RSMo;
 - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
 - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

200 to Bylen



January 20, 2022

Mr. Josh Hustad Director of Facilities and Grounds Raytown School District Raytown, Missouri

Limited Asbestos Sampling

Date Performed: **December 29, 2021**Location: **Spring Valley Elementary School**

Address: 8838 East 83rd Street, Raytown, Missouri 64138

Area Description: 1st Floor Corridors/ Hallways

Requested By: Josh Hustad

Reason for Request: Planned Renovations

Performed By: Kody Tramm

Certification #: 7011070821MOIR19410

Dear Mr. Hustad:

Axiom Service Professionals (ASP) conducted the limited asbestos sampling detailed above. The sampling was conducted to determine asbestos content of suspect materials prior to planned renovations.

Asbestos samples were collected in accordance with EPA AHERA, and other applicable local, state, and federal asbestos guidelines and regulations. The samples were submitted to Hayes Microbial for analysis. The lab is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and the NVLAP Lab code number is 5000-96-0. The bulk samples were analyzed by polarized light microscopy (PLM) using EPA Method Reference 600/M4-82-020 and 600/R-93/116.

A material is considered to be an asbestos-containing material (ACM) if at least one sample collected from the material showed asbestos present in an amount greater than one percent (1%), in accordance with the definition of ACM per the Environmental Protection Agency (EPA).

The sampling was performed only on suspect materials that may be impacted by renovations in the areas described above. Laboratory results and the chain of custody can be found attached as Appendix A.

All materials listed below highlighted in red text are federally regulated regarding abatement methods, worker training, and notification of building occupants, employees, and contractors.

Sample #	Sample Description	Area Description	Friability	% Asbestos*
SVE-FTM 1-1, 1-2 1-3, 1-4	9" Floor Tile with Black Mastic, Grey	1 st Floor Corridor @ Classroom 115 CC1 Classroom 101 Classroom 115	Non-Friable	2% Chrysotile (Floor Tile Layer) 6% Chrysotile (Mastic Layer)

NAD - No Asbestos Detected

* - Asbestos percentage in the table reflects the highest reported concentration. The full laboratory report is attached as Appendix A.

Axiom Service Professionals appreciates the opportunity to serve you. If you have any questions, please feel free to call or email.

Sincerely,

Kody Tramm 913-322-3862

kodyt@axiomservicepros.com

Limitations of Inspection

Axiom Service Professionals collected samples of suspect asbestos containing materials that will be impacted by planned renovations only. Other suspect materials within the rooms were not sampled and should be presumed to be asbestos containing until sampling proves otherwise.

Appendix A Laboratory Analytical Report





Analysis Report prepared for

Axiom Service Professionals

P.O. Box 47166 Kansas City, MO 64188

Phone: (816) 678-7894

Spring Valley Elementary

Collected: December 29, 2021 Received: January 12, 2022 Reported: January 17, 2022 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 4 samples by FedEx in good condition for this project on January 12th, 2022.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT(ASCP) Laboratory Director

Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Eplan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Spring Valley Elementary

#22001268

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos PLM Bulk

EPA 600/R-93, M-4/82-020

#	Sample	Material Description	Non-Asbestos Fibers	Asbestos Fibers
1	#1 SVE-FTM-1-1 - 9" Grey Floor Tile W/ Black Mastic, 1st Floor Hallway/Corr., @ Classroom 115	Tile / Gray		2% Chrysotile
		Mastic / Black		4% Chrysotile
2	#1 SVE-FTM-1-2 - 9" Grey Floor Tile W/ Black Mastic, 1st Floor Hallway/Corr., @ CC1	Tile / Gray		2% Chrysotile
		Mastic / Black		4% Chrysotile
3	#1 SVE-FTM-1-3 - 9" Grey Floor Tile W/ Black Mastic, 1st Floor Hallway/Corr., @ Classroom 101	Tile / Gray		2% Chrysotile
		Mastic / Black		5% Chrysotile
4	#1 SVE-FTM-1-4 - 9" Grey Floor Tile W/ Black Mastic, 1st Floor Hallway/Corr., @ Classroom 115	Tile / Gray		2% Chrysotile
		Mastic / Black		6% Chrysotile

HAYES
MICROBIAL CONSULTING

Collected: Dec 29, 2021

Project Analyst:

Geepha Jacob,

Received: Jan 12, 2022

Reported: Jan 17, 2022

Date:

01 - 17 - 2022

Reviewed By: Samuel Settle, Samuel Settle

Date:

01 - 17 - 2022

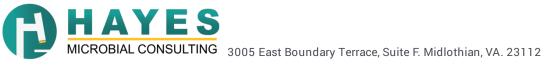
Spring Valley Elementary

#22001268

P.O. Box 47166 Kansas City, MO 64188 (816) 678-7894

Asbestos Analysis Information

Analysis Details	All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.
PLM Analysis	All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Materials with interfering matrix, low asbestos content, or small fiber size may require additional analysis via TEM Analysis.
TEM Analysis	Analysis by TEM is capable of providing positive identification of asbestos type(s) and semi-quantitation of asbestos content.
Definitions	'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.
New York ELAP	Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.
	Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.





Job Number:

Axiom Service Professionals

P.O. Box 47166

Job Name:

Kansas City, MO 64155

SHIP: FEDEX - PAK 50 DATE: 01-12-2022



8166 1959 9760

				Job Hame.							
Collector: Kody Tramm Spring Valley Elementery		Mobile: 913.322.3562 Email: kodyt@axiomservicepros.c									
Date C	ollecte	ed: 12/29/21		1 2 11 12 11 13		Note:					
	Analysis Type Analysis Methods				Turnaround Times						
PLM	Bu	lk	EPA 600			3 Hour	Same Day	1 Day	2 Day	3 Day	5 Da
*	Po	int Count	400 Point, 10	000 Point		3 Hour	Same Day	1 Day	2 Day	3 Day	5 Da
	Ve	rmiculite	CARB 435			3 Hour	Same Day	1 Day	2 Day	3 Day	5 Da
ΓEM	Air		EPA AHERA, NIOSH 7402			-	Same Day	1 Day	2 Day	3 Day	5 Da
	Bu	lk	Chatfield			-	Same Day	1 Day	2 Day	3 Day	5 Da
	Wij	pe	ASTM D6480)-05		-	Same Day	1 Day	2 Day	3 Day	5 Da
1.	Mid	crovac	ASTM D5755	5-09		-	Same Day	1 Day	2 Day	3 Day	5 Da
PCM A			NIOSH 7400			=	Same Day	1 Day	2 Day	3 Day	5 Da
#	Group	Nu	mber	9" Grey Floor The of Black M	ame /	St Flat	Analysis Type	Turnaroun	d Volu	me / Area	Stop (+)
1 #	12	SVE-FTM-	1-1	9" Gres Floor The W Black M	late 1st Floor Holland	14400	PLM	Turnaroun	1	VIA	Man N
2	1		1-2	1	()	CCI	1	1	2	1	71000 10
3			J- 3		(0)	laware lal				1	
4	A	4 4	1-1	4	V ades	lassoom 101 500m 175	4	4	-	W	1
5					10 515					-	
6											
7							Maria de la companya				
8											
9											
0											
1											
2											
3							***************************************				
4											
5											
6											
7											
Release	ed by:	Wi		Date: \landar	Received By:	Since		Assessment		Date: 1/1	1
	- hi-10-	nsulting, LLC.	2007 5 0	Date:)) 7 2 1	(804) 562-3435					Date.	21/2

Appendix B Certification



Missouri Department of

dnr.mo.gov





NATURAL RESOURCES

Michael L. Parson, Governor

July 27, 2021

Kody L Tramm 111 West 5th St Edgerton, KS 66021 Dru Buntin, Acting Director CERTIFICATION NUMBER:

7011070821MOIR19410

THIS CERTIFIES

Kody L Tramm

HAS COMPLETED THE CERTIFICATION

Inspector

APPROVED: 07/27/2021
EXPIRES: 07/27/2022

TRAINING DATE 07/08/2021

Aury Trayle

RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011070821MOIR19410

Course Training Date: July 08, 2021

Missouri Certification Approval Date: July 27, 2021 Missouri Certification Expiration Date: July 27, 2022

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
 - Sections 643.225 to 643.250, RSMo;
 - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
 - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

200 to Bylen

Attachment C Project Designer Certification



Missouri Department of

dnr.mo.gov

Carol S. Comer, Director

NATURAL RESOURCES

Michael L. Parson, Governor

February 8, 2021

Glenn S Robinson 9065 Waverly Rd DeSoto, KS 66018 CERTIFICATION NUMBER:

7011010421MOPDR4804

THIS CERTIFIES

Glenn S Robinson

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Project Designer

APPROVED: 02/08/2021 EXPIRES: 01/04/2022

TRAINING DATE: 01/04/2021

Director of Air Pollution Control Program

RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Project Designer, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7011010421MOPDR4804

Course Training Date: January 04, 2021

Missouri Certification Approval Date: February 08, 2021 Missouri Certification Expiration Date: January 04, 2022

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
 - o Sections 643.225 to 643.250, RSMo;
 - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
 - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

2024 Byles



Attachment D Affidavit Compliance with Prevailing Wage Law Annual Wage Determination Schedule



MISSOURI DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS DIVISION OF LABOR STANDARDS

AFFIDAVIT COMPLIANCE WITH THE PREVAILING WAGE LAW

I,	, upon being duly sworn upon my oath state that: (1) I am the
(Name)	10 Yamana
of	; (2) all requirements of
	the payment of wages to workers employed on public works projects
have been fully satisfied with regard to this con	(Name of Project)
(3) I have reviewed and am familiar with the pr	revailing wage rules in 8 CSR 30-3.010 to 8 CSR 30-3.060; (4) based
•	ne occupational titles set out in 8 CSR 30-3.060, I have completed full
	e names, occupations, and crafts of every worker employed by this
	her with an accurate record of the number of hours worked by each
	s or type of work performed, (b) the payroll deductions that have been
made for each worker, and (c) the amounts pair	id to provide fringe benefits, if any, for each worker; (5) the amounts
paid to provide fringe benefits, if any, were irr	evocably paid to a trustee or to a third party pursuant to a fund, plan,
or program on behalf of the workers; (6) these	payroll records are kept and have been provided for inspection to the
authorized representative of the contracting pul	blic body and will be available, as often as may be necessary, to such
body and the Missouri Department of Labor	and Industrial Relations; (7) such records shall not be destroyed or
removed from the state for one year following	the completion of this company's work on this project; (8) when in
effect, the requirements of §§ 290.550 through	n 290.580, RSMo, pertaining to excessive unemployment were fully
	on to the full and complete compliance with the provisions and
	Section issued by the Missouri Division of Labor Standards
	County, Missouri, and completed on the day of
and applicable to this project located in	county, wissour, and completed on the day or
The metters stated have a section one two to the	a hast of any information lunculator and hallof the during that
	e best of my information, knowledge, and belief. I acknowledge that
	ove may subject me to criminal prosecution pursuant to §§290.340,
570.090, 575.040, 575.050, or 575.060, RSMo.	
	Signature
Subscribed and sworn to me this day of _	,
My commission expires	
	
Notary Public	
	Receipt by Authorized Public Representative
	ACCOUNT BY AMERICANCE A REPORT OF THE SCHOOL

Attachment E E Verify Letter



As a condition for the award of any service contract or grant in excess of five thousand dollars (\$5,000) by the state or by any political subdivision of the state to a business entity, or for any business entity receiving a state-administered or subsidized tax credit, tax abatement, or loan from the state, a business entity shall submit the following affidavit.

participating in, E-verify or any other e operated by the United State Department Act of 1986 (IRCA); and	(Company Name) is enrolled in, and is currently divalent electronic verification of work authorization program of Homeland Security under the Immigration Reform and controus (Company Name) does not knowingly alien in conjunction with the contracted services.	
Name (Please Print) of registered agent,	legal representative or corporate officer	
Title		
Signature of registered agent, legal repre-	sentative or corporate officer	
Notary		

Attachment F
Subcontractor List

Subcontractor List

Per the Agreement, the following information must be submitted with the Bid Form.

The Contractor hereby certifies that the following subcontractors will be used in performance of the work. Failure to list subcontractors, if applicable, for work identified in this Bid or listing more than one subcontractor for any category of work without designating the portion of work to be performed by each may be grounds for rejection of bid. List the name, address, city, and state of the subcontractor within the table below. If more than one subcontractor will perform work within a category, Contractor shall provide name, address, city, and state of each subcontractor and specify the exact portion of work to be performed by each. If Contractor intends to perform any designated subcontract work by using Contractors own employees, then the Contractor shall list their own name, address, city, and state.

Subcontractor	Name, Address, City, State
Subcontractor Portion of Work:	

Attachment G	
OSHA 10 Affidavit	

AFFIDAVIT OF 10 HOUR OSHA TRAINING

Comes nowName	as	first
Name	Office I	ield
being duly sworn, on my oath, affirm	Company Name	does
	Combany Mann	5
comply with the requirements of Section 292, subcontractors doing work on the project to p complete a ten-hour course in construction sa Safety and Health Administration (OSHA) or Department of Industrial Relations which is a	rovide, and require its fety and health approve a similar program app	on-site employees to ed by the Occupational roved by the Missouri
In Affirmation thereof, the facts stated above understands that false statements made in th under Section 292.675, RSMo).		
Signature (person with authority)	Printed 1	Vame
Title	Date	The second secon
Subscribed and sworn to before me this	of	, 20
Signature of notary	Date	

Attachment H
Drug and Alcohol Testing Program Affidavit

Contractor's Affidavit Concerning Drug/Alcohol Testing Program

STATE OF MISSOURI)	
COUNTY OF)	
COMES NOW the Affiant after	having first been duly sworn and testifies as follows:
My name is	. I hold the principal office of
for	. I, the undersigned, being duly sworn, certify that
is in comp	liance with the provisions of Missouri Revised Statute §
161.371; that	has established and implemented a random drug and
alcohol testing program as required by	Missouri Revised Statute § 161.371 and any applicable
regulations. I further certify that	shall subcontract work only to
subcontractors meeting the requirement	ts of Missouri Revised Statute § 161.371.
	Name of Contractor
	Address
	City
	State
	Ву:
Subscribed and sworn to before me this	s day of20
	Notary Public

My Commission Expires:

Attachment I

Missouri Service-Disabled Veteran Business Preference



MISSOURI SERVICE-DISABLED VETERAN BUSINESS PREFERENCE

Pursuant to section 34.074, RSMo, a preference will be given all contracts for the performance of any job or service to service-disabled veteran business either doing business as Missouri firms, corporations, or individuals; or which maintain Missouri offices or places of business, when the quality of performance promised is equal or better and the price quoted is the same or less or whenever competing bids, in their entirety, are comparable.

Definitions:

Service-Disabled Veteran is defined as any individual who is disabled as certified by the appropriate federal agency responsible for the administration of veterans' affairs.

Service-Disabled Veteran Business is defined as a business concern:

- a. Not less than fifty-one (51) percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than fifty-one (51) percent of the stock of which is owned by one or more service-disabled veterans; and
- The management and daily business operations of which are controlled by one or more servicedisabled veterans.

If a bidder meets the definitions of a service-disabled veteran and a service-disabled veteran business as defined in section 34.074, RSMo, and is either doing business as a Missouri firm, corporation, or individual; or maintains a Missouri office or place of business, the bidder <u>must</u> provide the following with the proposal in order to receive the Missouri service-disabled veteran business preference over a non-Missouri service-disabled veteran business when the quality of performance promised is equal or better and the price quoted is the same or less or whenever competing proposals, in their entirety, are comparable:

- a. A copy of a letter from the Department of Veterans Affairs (VA), or a copy of the bidder's discharge paper (DD Form 214, Certificate of Release or Discharge from Active Duty) from the branch of service the bidder was in; and
- b. A completed copy of this exhibit

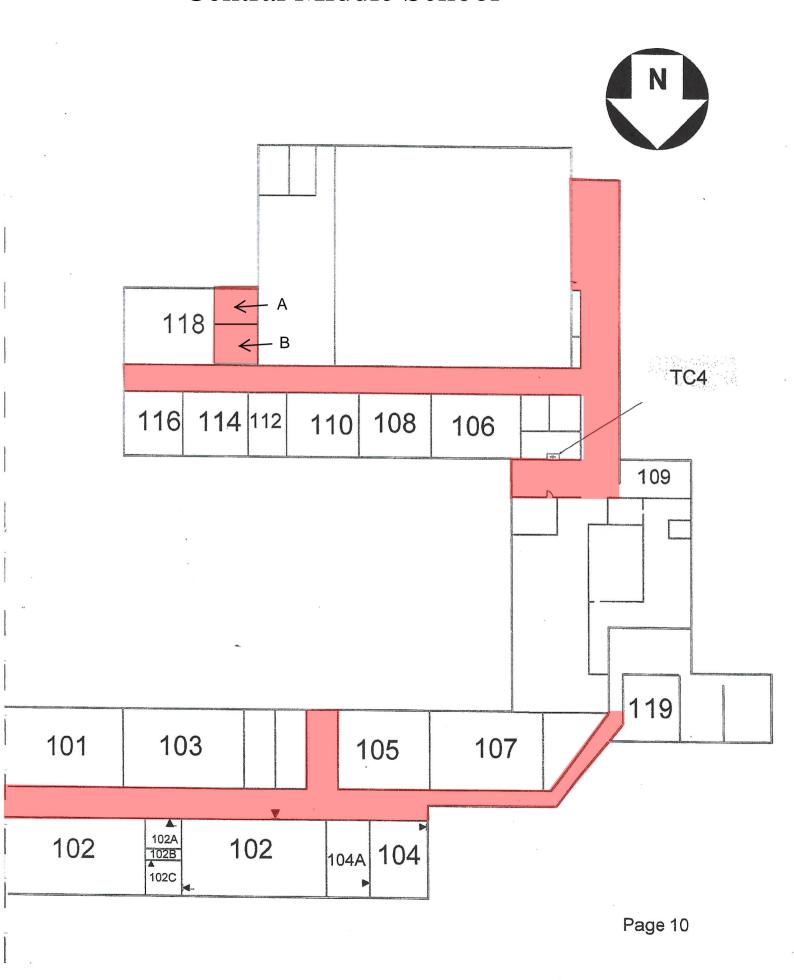
(NOTE: For ease of evaluation, please attach copy of the above-referenced letter from the VA or a copy of the bidder's discharge paper to this Exhibit. The above-referenced letter from the VA and a copy of the bidder's discharge paper shall be considered confidential pursuant to subsection 14 of section 610.021, RSMo.)

By signing below, I certify that I meet the definitions of a service-disabled veteran and a service-disabled veteran business as defined in 34.074 RSMo and that I am either doing business as a Missouri firm, corporation, or individual; or maintain Missouri offices or places of business at the location(s) listed below.

Service-Disabled Veteran's Name (Please Print)	Service Disabled Veteran Business Name	
Service-Disabled Veteran's Signature	Missouri Address of Service-Disabled Veteran Business	

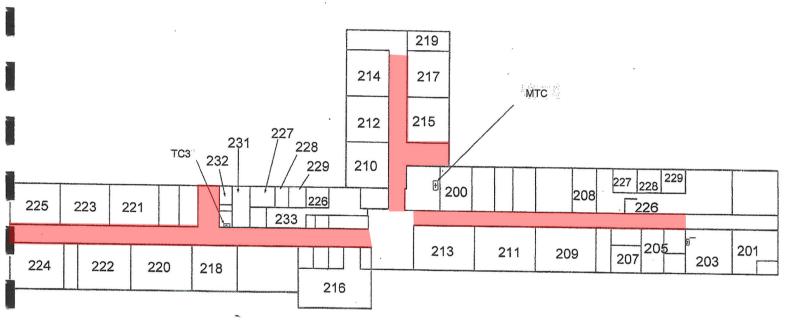
Attachment .	J
Floor Plans	ıs

Central Middle School

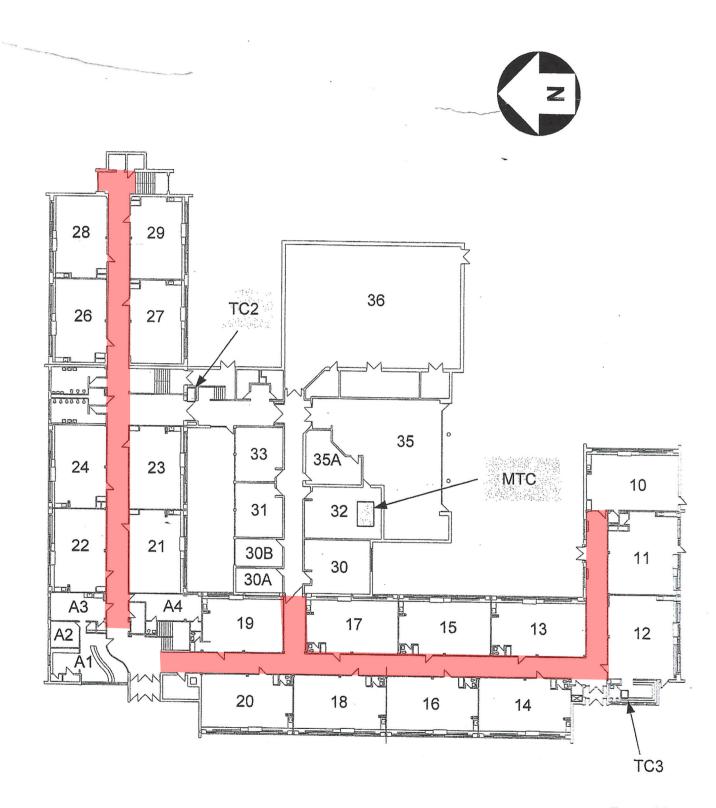


Central Middle School



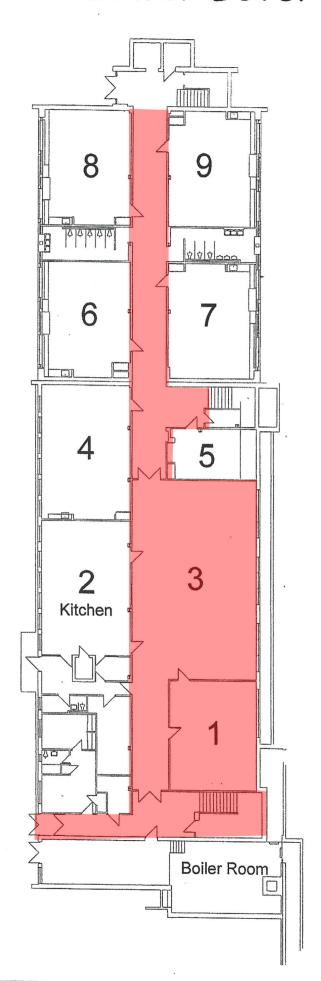


Southwood First Floor



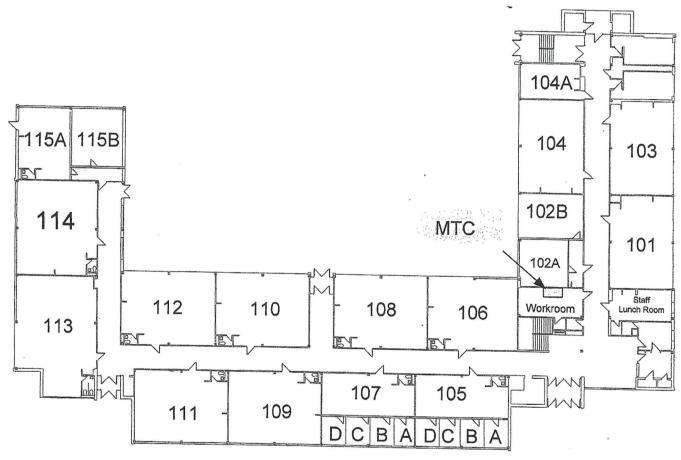
Southwood Lower Level



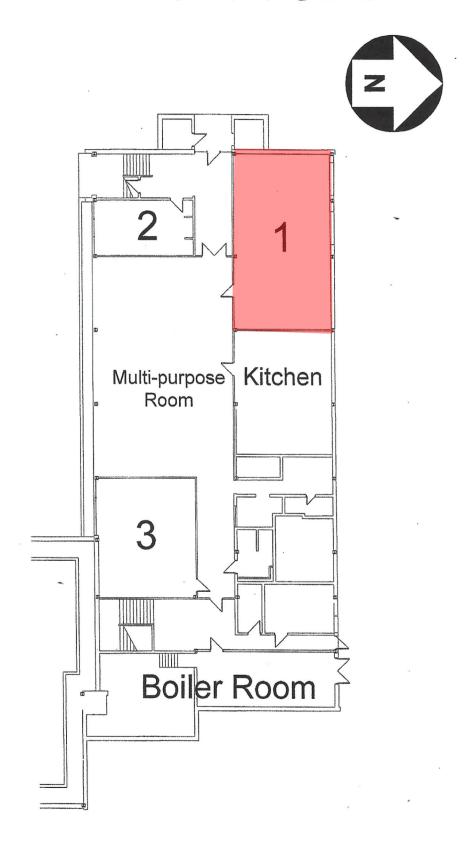


Northwood First Floor



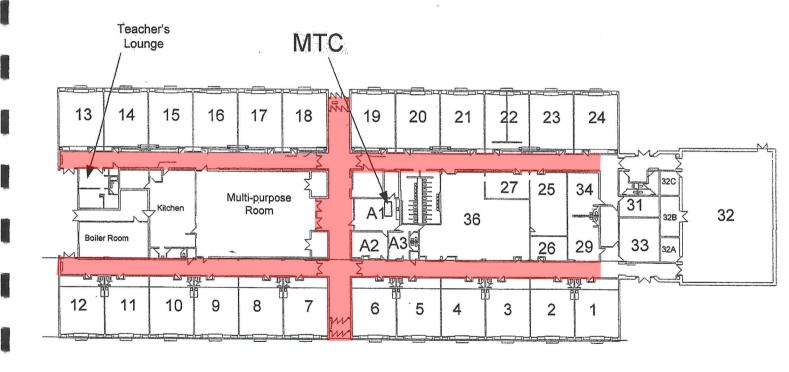


Northwood Lower Level



Laural Hills





Spring Valley



