A D D E N D U M N O. 1

HVAC MODIFICATIONS – PHASE 2 ELEMENTARY SCHOOLS
West Main Elementary School
Willyard Elementary School
West Park Elementary School

RAVENNA CITY SCHOOLS
RAVENNA, OH 44266

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Pre-Bid Agenda and Meeting Minutes
Pre-Bid Sign-In Sheet
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School Calendar 2023-2024

October 26, 2023

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Ohio.

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated October 6, 2023, for HVAC Modifications - Phase 2 Elementary Schools, Ravenna City Schools, 534 Summit Street, Ravenna, Ohio 44266; as prepared by Fanning/Howey Associates, Inc., Dublin, Ohio.

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

A. Page 00 01 10-1, Bidding Requirements: Add Document 00 31 26.01 – AHERA Three-Year Reinspection Report.

B. Page 00 01 10-1, Bidding Requirements: Delete Document 00 73 43 – Wage Rates (Federal).

C. Page 00 01 10-2, Division 23: Add Section 23 21 13 – Hydronic Piping.

ITEM NO. 2. PROJECT MANUAL DOCUMENT 00 73 43 – WAGE RATES (FEDERAL)

A. Delete Document 00 73 43 – Wage Rates (Federal) in their entirety.

ITEM NO. 3. REVISED PROJECT MANUAL DOCUMENT

A. Document 00 01 10 – Table of Contents and Document 00 21 13 – Instructions to Bidders have been revised, dated 10-26-23, are included with and hereby made a part of this Addendum.

ITEM NO. 4. NEW PROJECT MANUAL SECTION

A. New Project Manual Section 23 21 13 – Hydronic Piping is included with and hereby made a part of this Addendum.

ITEM NO. 5. REVISED DRAWING SHEETS

A. Drawing Sheet Nos. WI-M2.01, WI-M2.02, WM-M2.01, WM-M2.02, and WP-M2.01 have been revised, dated 10-26-23, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

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01 29 00	Applications for Payment
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DOCUMENT 00 21 13 - INSTRUCTIONS TO BIDDERS

Described herein are general and specific instructions provided to assist bidders in the responsible preparations of complete bids. However, it is imperative that each bidder become familiar with all aspects of the Bidding Documents in recognition that only the detailed requirements contained therein shall serve as the basis of compliance with this project.

PART 1 GENERAL

1.01 DEFINITIONS

A. Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement or Notice to Bid, Instructions to Bidders, Supplementary Instructions to Bidders, the bid form, and other sample bidding and contract forms. The proposed Contract Documents consist of the Form of Agreement between the Owner and Contractor, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, and all Addenda issued prior to the execution of the Contract.

B. Definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201, or in other Contract Documents are applicable to the Bidding Documents.

C. Addenda are written or graphic instructions issued by the Architect/Engineer (A/E) prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications, or corrections.

D. A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

E. The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids.

F. An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

G. A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the Work as described in the Bidding Documents.

H. A Prime Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

I. A sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment or labor for a portion of the Work.

1.02 DOCUMENTS

A. Architect will not be responsible for choosing correct sheets for Contractor. Contractor shall request which sheets he wants.

B. Prime Bidders are required to obtain full, complete sets of Bidding Documents.

1.03 BIDDERS EXAMINATION AND REPRESENTATION

A. Before submitting a bid, each bidder should carefully examine the documents and the construction site and inform himself of the limitations and conditions related to the Work covered by his bid, and shall include in his bid a sum to cover the cost of such items. Each bidder represents and warrants for himself any are relevant, subcontractors he intends to employ on the project, that he has observed all nature of the work, that he has had opportunity to inquire about site conditions including public right-of-ways and areas adjacent to the site which might affect the Work, and that he has prepared his proposal with the requisite understanding of the project and site conditions. Contractors will not be given extra payments for conditions which could have been determined by examining the site and documents.

B. It is the purpose and intent of the Contract Documents, that a complete job be accomplished. It shall be each bidder's responsibility to include costs necessary to provide labor and materials for that portion of the Work bid upon, including incidentals, whether or not specifically called for in the Specifications and Drawings.

C. Each bidder by making his bid represents that he has read and understands the bidding documents. Bid is made in compliance with Bidding Documents.

D. Each bidder by making his bid represents that he has visited the site and familiarized himself with the local conditions under which the Work is to be performed and has correlated the Bidder’s personal observations with the requirements of the requirements of the proposed Contract Documents.

E. Each bidder shall be responsible for being completely familiar with the Work of other bid package(s) which require interface of Work with the bid package(s) the bidder is bidding on. Bid shall be based upon the materials, equipment, and systems required by the Contract Documents without exception.

F. No allowance shall be subsequently made in behalf of a bidder by reason of error or oversight on his part resulting from his failure to so examine the Construction Documents for the other trades.

G. Each bidder understands that past acceptance of products does not assure acceptance on this Project. Products not specifically specified require requests for approval prior to bid due date.

1.04 QUALIFICATIONS OF BIDDERS

A. The Owner will have the right to take such steps as he deems necessary to determine the ability of the bidder to perform the Work, and the apparent low bidders shall furnish the Owner such data for this purpose as the Owner may request. When requested, this shall clearly show the bidder's financial resources, his construction experience, his organization, and equipment available for Work contemplated.

B. Unless otherwise noted, the apparent low bidders shall complete the AIA Document A305 including all Exhibits A-E, Contractor Qualifications Statement, and thereafter provide it to the Architect within 72 hours after bids are received and any such additional information as the Architect may request regarding the bidder's responsibility. Additionally, upon request from the Architect, other bidders will promptly complete and submit to the Architect AIA Document A305, Contractor Qualifications Statement, and such additional information as the Architect may request regarding the bidder's responsibility.

1.05 INTERPRETATION

A. Questions for this Project shall be directed to: OhioBidQuestions@fhai.com

B. If the Bidder finds any perceived ambiguity, conflict, error, omission, or discrepancy on or between any of the Contract Documents, including without limitation the Drawings and Specifications, or between any of the Contract Documents and any applicable provision of law, including without limitation, the Building Code, the Bidder shall submit a written request to the A/E, for an interpretation or clarification.

1. In order to prevent an extension of the bid opening, the Bidder shall make all requests for interpretation or clarification a minimum of 7 days before bid opening.

C. Prospective bidders in doubt as to the true meaning of a part of the Drawings, Specifications or other Contract Documents shall submit to the Architect not less than 7 days before closing time for bids, a written request for interpretation and clarification. Request made after 7 days may not be answered.

D. Bidders are instructed to request interpretations and the issuing of addenda if the Contract Documents call for materials, equipment, or methods which adversely affect the cost or quality of the project, or are unavailable.

E. The Bidder shall not, at any time after the execution of the Contract, be compensated for a claim alleging insufficient data, incomplete, ambiguous, conflicting, or erroneous Contract Documents, any discrepancy on or between Contract Documents, or incorrectly assumed conditions regarding the nature or character of the Work, if no request for interpretation or clarification regarding such matter was made by the Bidder prior to the bid opening.

F. Interpretations, corrections and changes of the Bidding Documents will be made by Addendum. Interpretations, corrections and changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon them.

1.06 SUBSTITUTIONS

A. The materials, products and equipment described in the Bidding Documents established a standard of required function, dimension, appearance, and quality to be met by any proposed substitution. Each bid will be based on these brands, which may be referred to in the Bid Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Bid Documents, when the bidder or the contractor seeks to have a different brand of material or apparatus than that specified and approved by the Owner for use in the Project) may be requested as provided herein.

B. If a Contractor preparing bids for submission on the Work is in doubt as to the acceptability of a manufacturer's material or equipment, under the requirements as set forth in the Specifications, he should require that representatives of the proposed manufacturer or supplier contact the Architect and request a ruling on the acceptability of the material or equipment in question.

C. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the A/E at least ***seven (7)*** days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, including changes in the Work of other contracts that incorporation of the proposed substitution would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The A/E's decision of approval or disapproval of a proposed substitution shall be final.

1. Request shall be accompanied by Division 00 Document "Substitution Request Form (During Procurement)".

D. Requests for product approval shall be submitted on sample form following this Section and sent to the Project Manager and copied to the Bidding Coordinator:

E. If the A/E approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

F. No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

1.07 ADDENDA

A. If the A/E determines that an interpretation or clarification is warranted, the A/E shall issue an Addendum. All addenda become part of the Contract.

B. A copy of the addenda will be mailed or delivered to each bidder of record, and to each prospective bidder requesting a copy. Bidders who request and are sent documents by the Architect are considered "Bidders of Record." Copies of addenda will be available for inspection wherever Contract Documents are on file for that purpose.

C. The Owner reserves the right to issue addenda changing, altering, or supplementing the Contract Documents, at any time prior to the time set for receiving bids.

D. Bidders are responsible for acquiring each issued addenda in time to incorporate them into their proposal.

E. In the event delivery of addenda to bidders is delayed, for reasons not the fault of the bidders, the Owner may be requested to allow a reasonable extension of time for the opening of bids, to permit inclusion of such addenda.

F. Each Bidder shall ascertain prior to submitting a Bid that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

G. If a bidder fails to indicate receipt of each addendum through the last addendum, issued by the Architect, on its Supplemental Bid Proposal Form, the bid of such bidder will be deemed to be responsive only if:
   1. The bid received clearly indicates that the bidder received the addendum, such as where the addendum added another item to be bid upon and the bidder submitted a bid on that item; or
   2. The addendum involves only a matter of form or is one which has either no effect or has merely a trivial or negligible effect on price, quantity, quality, or delivery of the item bid upon.

1.08 ALTERNATES (IF REQUESTED)

A. Requested alternates are listed on the Bid Form and are described in detail under Division 1 - Alternates. NOTE: The terms "alternate" and "alternative" are used interchangeably in this Project Manual and on the Drawings.
   1. The price of the Bid for each alternate will be the amount to be added to or deducted from the price of the Base Bid if the Owner selects the alternate.
   2. The Owner may accept alternates in any order, regardless of how they are listed, and determine the lowest responsible bidder on the basis of the sum of the base bid plus any selected alternates.
   3. If the Bidder does not indicate if the amount state is an add to or a deduct from the base bid amount, the amount shall be deemed to be an addition to the base bid amount.

B. The cost of each alternate shall include omissions, additions, and adjustments of trades as may be necessary because of each change, substitution, addition, or omission.

C. Each bidder shall be responsible for bidding alternates which affect the Work of the base bid he is bidding, regardless of whether listed or not listed on the Bid Form. All requested Alternates shall be bid. If no change in the Base Bid is required, enter “No Change”. If an applicable alternate(s) is not listed on the Bid Form, the bidder shall submit on his letterhead the cost of said alternate(s). No additional monies will be allowed after signing of contract for failure to bid applicable alternates.

D. Bidder shall fill in the applicable blank with an increased or decreased bid amount. The Owner reserves the right to accept or reject any or all bids on Alternates, in whole or in part, and in any order.
   1. If no change in the bid amount is required, indicate “No Change”.
   2. A blank entry or an entry of “No Bid”, “N/A”, or similar entry on any Alternate will cause the bid to be rejected as nonresponsive only if that Alternate is selected.
   3. If an Alternate is not selected, an entry as listed in paragraph hereinbefore on that Alternate will not, by itself, render a bid nonresponsive.
   4. In a combined bid, a blank entry, or an entry of “No Bid”, “N/A”, or similar entry on an Alternate will cause the bid to be rejected as nonresponsive only if that Alternate applies to the combined bid and that Alternate is selected.

E. The Owner retains the right to include or exclude work required by alternates for the sums established exercisable within 60 days from and including the date of signing the Contract.

1.09 UNIT PRICES (Not Applicable)

A. Refer to Unit Price Sheet included in the Project Manual.

B. The low bidders shall agree to submit the unit prices requested by the Architect within 10 days of when the bids were received.

C. Unit prices shall be executed on the form provided by the Architect (see Table of Contents), shall include overhead and profit, shall be negotiated between the bidder and the Architect, and when mutually agreed upon, they shall be attached to and become a part of the awarded Construction Contract (Form of Agreement).

D. Requested unit prices will not be considered in the award, unless otherwise noted.

1.10 BIDDING PROCEDURES

A. Each bid shall be submitted on the Bid Form and sealed in an envelope clearly marked as containing a bid, indicating the Project Name, the bid package (scope), and the date of the bid opening on the envelope.
   1. Any substantial change, alteration or addition in the wording of the Bid Form may cause a bid to be rejected as not responsible for award of a Contract.
   2. Unless the Bidder withdraws the bid, the Bidder will be required to comply with all requirements of the Contract Documents, regardless of whether the Bidder had actual knowledge of requirements and regardless of any statement or omission made by the Bidder which might indicate a contrary intention.

B. Bids shall be executed upon the Bid Form provided, and relevant blank spaces in the form shall be filled in ink and not in pencil. The signature shall be in longhand and the completed form shall be without interlineation, alteration, or erasure. Each bidder is required to bid every item called for, including alternate and unit costs.
   1. The Bidder shall show all bid amounts in both words and figures. In case of a conflict between the words and figures, the amount shown in words shall govern, where such words are not ambiguous. When the Bidder's intention and the meaning of the words are clear, omissions or misspelling of words will not render the words ambiguous.
   2. Any alteration or erasure of items filled in on the Bid Form shall be initialed by the Bidder.

C. A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of bids indicated in the Advertisement for Bids, or prior to extension thereof issued to the bidders.

D. Oral, telephonic, telegraphic, facsimile or other electronically transmitted bids will not be considered.

E. Bids which are not signed by the individuals making them shall have attached thereto a Power of Attorney evidencing authority to sign the bid in the name of the person for whom it is signed. Bids which are signed for a partnership shall be signed by the partners, or by an attorney-in-fact. If signed by an attorney-in-fact, there shall be attached to the bid a Power of Attorney evidencing authority to sign the bid, executed by the partners.

F. Bids which are signed for a corporation shall have the authorized officer of the corporation manually written below the corporate name, following the word "By __." If such a bid is manually signed by an official other than the president of the corporation, a certified copy of a resolution by the Board of Directors evidencing the authority of such official to sign the bid shall be attached to it. The bid shall also bear the attesting signature of the secretary of the corporation.

G. It is the bidder's responsibility to include in his bid costs necessary for a completed and finished job for items of Work bid upon.

H. Submit bids in duplicate with Bid Security and other requested supplemental material attached; properly and completely executed.

I. Proposals for Work shall not include the Ohio Sales Tax for materials to be incorporated into this Project. Owner will provide necessary tax exemption forms.

1.11 BID SECURITY

A. Each Bid shall be accompanied by a bid security in the form and amount required if so stipulated in the Advertisement for Bids. The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and will, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.

B. The Bid Security of bidders, except the 3 selected best qualified in each category, may be returned within 3 days after the opening of bids, at the Owner's or Architect's option.

C. Bid Security of the 3 selected qualified bidders may be held by the Owner, following the bid opening, for not more than the maximum number of days stipulated in the Advertisement for Bids, unless the Owner and the bidders agree otherwise; except that in the event a qualified bidder has been awarded the Contract and has failed to execute same and furnish Contract Bond, then the Bid Security of such bidder will be subject to forfeit and the next qualified bidder, if tendered the Contract, will be subject to the same provisions as hereinbefore set forth. Should the award fall to the third qualified bidder because of a default of the previous 2 qualified bidders, the same condition will apply to the third bidder as hereinbefore set forth.

D. The Bid Security of the 3 selected bidders will be returned within 72 hours after the Form of Agreement has been executed.

E. In the event that the Owner should decide to reject all bids, the Bid Securities will be returned within 72 hours following that decision.

F. Bid security is subject to forfeiture if a bid is withdrawn during the time period bids are to be held.

1.12 IDENTIFICATION AND SUBMISSION OF BID PROPOSAL

A. Enclose bids in opaque, sealed envelope with Bid Security and other requested exhibits. The envelope shall have clearly marked in indelible material on its face, the following:
   1. Name of Project
   2. Name of Bidder
   3. Base Bid(s) _____

(Note: Classification of Work bid upon; such as, Base Bid "A").

4. Date and time of closing of bids

B. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation “SEALED BID ENCLOSED” on the face thereof.

C. Bids shall be deposited at the designated location prior to the time and date of receipt of Bids. Bid received after the time and date for receipt of Bids will be returned unopened.

D. The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

1.13 MODIFICATION OR WITHDRAWAL OF BID PROPOSAL

A. A bidder may withdraw his bid prior to the scheduled time for the receipt of bids, without forfeiture of bid security. If a postponement of the time for receiving bids is made, the new time established therein shall be the time within the meaning of this Article.

B. Bids may be modified prior to bid closing time.

C. After pronouncement of the closing of bids, no Contractor may recall his bid, except in accordance with Ohio Revised Code.

D. A Bid may not be modified, withdrawn, or concealed by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and each Bidder so agrees in submitting a Bid.

1.14 OPENING OF BIDS

A. The Advertisement to Bid indicates the time and place fixed for opening bids. If stipulated in the Advertisement, the properly identified Bids received on time will be publicly opened and will be read aloud. An abstract of the Bids may be made available to Bidders. Bids received after advertised time will be returned unopened. Bids will be stamped showing the date and time received.

B. Bids received prior to the time of opening will be securely kept, unopened. The officer whose duty it is to open them will decide when the specified time has arrived, and no bid received thereafter will be considered.

C. No responsibility will be attached to an officer for the premature opening of a bid not properly addressed and identified.

D. The amounts involved in alternates requested will be read or disclosed as part of the requirements of this Article. Voluntary alternates will not be read.

E. The Owner reserves the right to delay the time for opening of bids when, in his judgment, it is desirable or necessary.

1.15 DISQUALIFICATION

A. The Owner reserves the right to reject each and every bid, to waive formalities and informalities in bidding, to accept and reject alternates regardless of their order or sequence, unless otherwise called for on the Bid Form. The Owner has the right to reject bids not accompanied by a required bid security or by other data required by the Bidding Documents, or a Bid which is in any way incomplete or irregular is subject to rejection.

B. The right is reserved to reject a bid where an investigation of the available evidence of information does not satisfy the Owner that the bidder is qualified to properly carry out the terms of the Contract Documents.

C. Bona fide bids in a definite stated amount, without special clauses governing price of labor and material increases, shall be the only ones that will be considered. No contract shall be entered into carrying what is commonly known as an "Escalator Clause."

D. Bids which contain qualifications or conditions that are contrary to the text or intent of the Contract Documents, and which are inserted in the bid for the purpose of limiting or otherwise qualifying the responsibility of the bidder, outside of the text or intent of the Contract Documents, will be subject to disqualification.

E. The Owner also reserves the right to reject the bid of a bidder who has previously failed to perform properly or to complete contracts of a similar nature on time, who is not in a position to perform the contract, or who has habitually, and without just cause neglected the payment of bills or otherwise disregarded his obligations to subcontractors, materialmen, or employees.

F. The ability of the bidder to obtain or qualify for a Contract Bond shall not be regarded as a sole test of such bidder's competence or responsibility.

1.16 DETERMINATION OF LOWEST RESPONSIBLE BID

A. Subject to the right of the Owner to reject each and every bid, the Owner will award the Contract for the Work to the bidder submitting the lowest responsible bid. In determining which bid is the lowest responsible bid, the Owner may take into consideration not only the amount of the bid but such of the following criteria as it, in its discretion, deems appropriate and may give such weight thereto as it deems appropriate:

1. The bidder's financial ability to complete the Contract successfully without resort to its Surety;
2. The bidder's prior experience with similar work on comparable or more complex projects;
3. The bidder's prior history for the successful and timely completion of projects;
4. The bidder's equipment and facilities;
5. The adequacy, in numbers and experience, of the bidder's work force to complete the Contract successfully and on time;
6. The bidder's prior experience on other projects of the Owner, including the bidder's demonstrated ability to complete its Work on these projects in accordance with the Contract Documents and on time;
7. The bidder's compliance with federal, state, and local laws, rules, and regulations, including, but not limited to, the prevailing wage law;
8. Depending upon the type of the work, other essential factors.

B. The failure to submit requested information on a timely basis may result in the determination that the bidder is not responsible.

C. Affidavit as to Property Taxes

1. Section 5719-042 of the Ohio Revised Code, effective September 21, 1982, requires the successful bidder(s) to furnish the Project Taxing District with a statement under oath that he or his company has or does not have any delinquent personal property taxes due and payable within the county of the Project, 22.2 (ORC) Sec. 5719.042. After the award by a taxing district of any contract let by competitive bid and prior to the time the contract is entered into, the person making a bid shall submit to the district's fiscal officer a statement affirmed under oath that the person with whom the contract is to be made was not charged at the time the bid was submitted with any delinquent personal property taxes on the general tax list of personal property of any county in which the taxing district has territory or that such person was charged with delinquent personal property taxes on any such tax list, in which case the statement shall also set forth the amount of such due and unpaid delinquent taxes and any due and unpaid penalties and interest thereon. If the statement indicates that the taxpayer was charged

with any such taxes, a copy of the statement shall be transmitted by the fiscal officer to the County Treasurer within thirty days of date it is submitted. A copy of the statement shall also be incorporated into the contract, and no payment shall be made with respect to any contract to which this section applies unless such statement has been so incorporated as a part thereof.

1.17 CONTRACT BOND

A. To satisfy the bond requirements the bidders who become the Contractors must have submitted a combination Bid Guaranty and Contract Bond as prescribed in Sections 153.54, 153.57, and 153.571 of the Ohio Revised Code or the following:

B. The bidders who become the Contractors, who submitted as a Bid Security, a certified check, cashier's check, or letter of credit, shall be required to provide a Contract Bond, covering the faithful performance of the contract and the payment of obligations arising thereunder in a penal sum equal to 100 percent of the amount of the contract sum. Said bonds shall remain in effect for 12 months after date established as start of one-year guarantee period. Premiums shall be included in the bid and paid for by the Contractor.
   1. Bonds shall be submitted on form provided in Division 00 “Bid Forms”.
   2. The bidder shall deliver the required bonds to the Owner not later than the date of execution of the Contract.

C. A surety company authorized by the Ohio Department of Insurance to transact business in the State of Ohio must issue the bond. The bond must be issued by a surety capable of demonstrating a record of competent underwriting, efficient management, adequate reserves, and sound investments. These criteria will be met if the surety currently has an A.M. Best Company Policyholders Rating of "A+", "A", or "A-" or better and has or exceeds the Best Financial Size Category of Class VII.

D. Bonds shall be signed by an authorized agent of an acceptable Surety Bonding Company and by the bidder. (Affix Corporate Seals to each copy.)

E. Surety Bonding Company bonds shall be supported by credentials showing the Power of Attorney of the agent, and a certificate showing the legal right of the Bonding Company to do business in the State of Ohio, and a financial statement of the Surety.

F. The Bid Guaranty, as applicable, shall be in the name of or payable to the order of the Owner.

G. The name and address of the Surety and the name and address of the Surety's Agent should be typed or printed on each bond.

1.18 EXECUTION OF THE CONTRACT

A. Subsequent to the award, and within 10 days after the prescribed Form of Agreement is presented for his signature, the Awardee shall execute and deliver them to the Owner through the Architect, in such number of counterparts as the Owner may require.

B. The failure of the Awardee to execute the Contract and to supply the required bonds when the Agreement is presented for signature, or within such extended period as the Owner may grant, based upon reasons determined adequate by the Owner, shall constitute a default; and the Owner may either award the Contract to the next responsible bidder or readvertise for bids. In the event of a default, the Owner shall have the right to declare the amount of the bid security forfeited. It shall be a further condition that the Owner shall not collect more on a defaulted bid than the difference between the defaulted bid amount and the bid of the firm to which the award is made, after giving due weight and consideration to alternates accepted.

C. A Contractor receiving an award will be required to furnish and execute the following within 14 days after the form of the Contract is presented for signature.
   1. Agreement Form

2. Contract Bond
3. Insurance requirements specified in Article 11 of the "Supplementary General Conditions," shall be properly executed on Certificate of Insurance, Acord 25-S or other acceptable form, in duplicate.
4. Enrollment in good standing in the Ohio Bureau of Workers' Compensation (BWC) Drug-Free Workplace Program (DFWP) or an equivalent BWC approved DFWP in accordance with but not limited to Ohio Administrative Code Chapter 4123-17 and Executive Order 2002-13T.
5. Property Tax Affidavit per Section 5719.042 of the O.R.C.
6. Subcontractors and Major Material Suppliers List on form bound herein and specified in Division 01 Section "Submittal Procedures."

1.19 TIME OF COMMENCEMENT AND COMPLETION

A. The Contractor shall commence Work within 10 days after the effective date of the Contract, or when notified in writing to proceed, and shall complete the Work within the time limitations established in the Form of Agreement, these Instructions To Bidders, and in Division 01 Section "Multiple Contract Summary".

1.20 COMBINED BIDS

A. Bidders desiring to submit a combined bid for two or more base bid Areas of Work shall so indicate in his combined bid together with the separate base bid areas included on the appropriate page(s) of the Bid Form.

B. The individual cost amounts of each base bid (including alternates) shall be indicated in the appropriate spaces for each and every base bid included under the combined bid.

1.21 TAX EXEMPT

A. The Owner is a political subdivision of the State of Ohio. Building materials that the successful bidder purchases for incorporation into the Project will be exempt from state sales and use taxes if the successful bidder provides a properly completed sales tax exemption certificate, executed by the successful bidder and the Owner, to the vendors or suppliers when the materials are acquired. The Owner will execute properly completed certificates on request.

~~1.22 ***DAVIS-BACON ACT REQUIREMENTS***~~

~~A. ***The Project is being financed with Qualified School Construction Bonds, which require payment of federal prevailing wage rates for Portage and compliance with other requirements of the Davis-Bacon Act.***~~

~~B. ***Davis-Bacon Wage Decision must be posted by the employing contractor. Wages to anyone performing work on the project must be paid at not less than the rates included in this decision throughout the term of the contract.***~~

~~C. ***The Davis-Bacon poster (WH-1 321) shall be posted at all times by each contractor and its subcontractors at the site of the work by in a prominent and accessible place where it can be easily seen by the workers. A copy of the poster is included in the Project Manual. The poster is available on the I.S. Department of Labors Wage and Hour Division website.***~~

~~D. ***Certain contract clauses are required to be inserted into the contract for construction by 29 CFR 5.5 for any contract in excess of $2,000. These clauses are included in the AIA Document AI0I-2007, Standard Form of Agreement between Owner and Contractor where the basis of payment is a stipulated sum, under Section 8.6 and certain references to these requirements will be included in the AIA Document A201-2007, General Conditions of the Contract for Construction. The following clauses will be inserted in AIA Document AI 01-2007 under Section 8.6 in the agreement prepared for each successful bidder as required by 29 CFR 5.5:***~~

1. ***Minimum wages.***

a. ***All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.***

b. ***Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1 (b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(i)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4) [apprentices and trainees]. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1 321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.***

c. ***The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:***

1) ***The work to be performed by the classification requested is not performed by a classification in the wage determination; and***

2) ***The classification is utilized in the area by the construction industry; and***

3) ***The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.***

d. ***If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30 day period that additional time is necessary.***

e. ~~*In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer to the Administrator for determination The Administrator or an authorized representative will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30 day period that additional time is necessary.*~~

f. ~~*The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.*~~

1) ~~*Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.*~~

2) ~~*If the contractor does not make payments to a trustee or other third person the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.*~~

2. ~~*Withholding the Owner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance or guarantee of funds until such violations have ceased*~~

3. ~~*Payrolls and basic records.*~~

a. ~~*Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shalt contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fidé fringe benefits or cash equivalents thereof of the types described in section 1 (b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv)*~~

~~*that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1 (b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, arid the ratios and wage rates prescribed in the applicable programs.*~~

~~b. *The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the (write in name of appropriate federal agency) if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the (write in name of agency). The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http:llwww.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the (write in name of appropriate federal agency) if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the (Write in name of agency), the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).*~~

~~c. *Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:*~~

~~1) *That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;*~~

~~2) *That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than: permissible deductions as set forth in Regulations, 29 CFR part 3;*~~

3) ~~*That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.*~~

d. ~~*The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.*~~

e. ~~*The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.*~~

4. ~~*The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the (write the name of the agency) or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment advance or guarantee of funds Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.*~~

5. ~~*Apprentices and trainees*~~

a. ~~*Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor Employment and Training Administration Office of Apprenticeship Training, Employer and Labor Services or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program who is not individually registered in the program but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.*~~

~~*In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.*~~

b. ~~*Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.*~~

c. ~~*Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 1 1246, as amended, and 29 CFR part 30.*~~

6. ~~*Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.*~~

7. ~~*Subcontracts. The contractor or subcontractor shalt insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the (write in the name of the Federal agency) may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.*~~

8. ~~*Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.*~~

9. ~~*Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.*~~

10. ***Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.***

11. ***Certification of eligibility***

    a. ***By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis- Bacon Act or 29 CFR 5.12(a)(1).***

    b. ***No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).***

    c. ***The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.***

E. ***If the contract sum is in excess of $100,000, each contractor and its subcontractors are subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. The following clauses are required to be inserted in the construction contract by 29 CFR 5.5(b) and will be inserted in AIA Document A101-2007, under Section 8.6, following the clauses set forth in D above for any contract with a contract sum in excess of $100 000 (as used in these clauses, the terms laborers and mechanics include watchmen and guards):***

1. ***Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.***

2. ***Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1)of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section. (3) Withholding for unpaid wages and liquidated damages. The (write in the name of the Federal agency or the loan or grant recipient) shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.***

~~3. ***Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.***~~

~~F. ***To the extent that any of the preceding contract clauses required to be inserted into the contract with the successful bidder conflicts with any of the terms and conditions in the Contract Documents, the clauses required by the Davis-Bacon Act will control. All other terms and conditions in the Contract Documents shall be interpreted in a way that is consistent with the Davis-Bacon Act requirements.***~~

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF DOCUMENT 00 21 13

AHERA Three-Year Reinspection Report

June 2021

Ravenna School District
507 East Main Street
Ravenna, Ohio 44266

FE Project Number: 2105.01

Prepared on: July 5, 2021

Prepared for: Ravenna School District
507 East Main Street
Ravenna, Ohio 44266

Prepared by: FREEMAN ENVIRONMENTAL

37000 Center Ridge Road
North Ridgeville, Ohio 44039

440-915-5913

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Appendix A Credentials

Section 1 Introduction

1.1 General

Freeman Environmental, LLC (FE) was retained by the Ravenna School District (RSD) to conduct an Asbestos Hazard Emergency Response Act (AHERA) Three-Year Reinspection. The purpose of this reinspection was to provide compliance with the United States Environmental Protection Agency (US-EPA) AHERA reinspection requirements for the Local Education Agency (LEA), which include reinspection by an accredited inspector of asbestos-containing building materials (ACBM) at least once every three years after the asbestos management plan is in effect. Previous asbestos records, along with findings during this reinspection, were utilized in preparation of this report.

1.2 Scope of Work

The reinspection was conducted in general accordance with the US-EPA AHERA regulation 40 CFR 763 Subpart E. The scope of work for this reinspection included:

- Review of existing asbestos records
- Visual and tactile inspection of known and assumed ACBM
- Reassessment of condition, type of damage and potential for disturbance of ACBM
- Determination of appropriate response actions
- Development of reinspection report for inclusion in the existing asbestos management plan

The reinspection was limited to the facilities, and portions thereof, included in the original Asbestos Management Plan (AMP) and previous AHERA three-year reinspection report. Any additions or new construction, where AHERA 763.99 exclusions have not been met, will require an initial AHERA inspection and development of an AMP.

1.3 Facilities

The following facilities were included in this reinspection:

Brown Middle School
238 South Scranton Street
Ravenna, Ohio 44266

Carlin Elementary School
531 Washington Avenue
Ravenna, Ohio 44266

Rausch Building
3582 State Route 59
Ravenna, Ohio 44266

Ravenna High School Athletic Complex
6589 North Chestnut Street
Ravenna, Ohio 44266

Ravenna Transportation Office and Garage
703 Oakwood Street
Ravenna, Ohio 44266

Tappan Building
310 Bennet Avenue
Ravenna, Ohio 44266

West Main Elementary School
639 West Main Street
Ravenna, Ohio 44266

West Park Elementary School
1071 Jones Street
Ravenna, Ohio 44266

Willyard Elementary School
680 Summit Road
Ravenna, Ohio 44266

The following facility is included in the existing AMP; however, this facility is no longer owned by RSD and was excluded from this periodic surveillance:

Walnut Building
315 North Walnut Street
Ravenna, Ohio 44266

The following facility has been determined to be exempted from AHERA reinspection and periodic surveillance requirements and was not included during this three-year reinspection:

Ravenna High School
6589 North Chestnut Street
Ravenna, Ohio 44266

1.4 Project Authorization

Authorization to perform this work was given on June 10, 2020, by Stephen York, Direction of Business Operations for RSD. The project was conducted in accordance with the scope, terms and conditions of Proposal Number FE2010, dated June 10, 2020.

1.5 Warranty

The findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations after the date of this inspection could not have been anticipated and have not been addressed in this report.

The inspection results reported herein are considered sufficient in detail and scope to determine the condition of accessible and exposed ACBM which have been identified in the existing Asbestos Management Plan and which were present in the facilities at the time of the inspection. No other warrantees are implied or expressed.

Section 2 Methodology

2.1 General

Reinspection procedures were performed by a US-EPA accredited Building Inspector and Management Planner in general accordance with the guidelines published by the EPA in 40 CFR, Part 763, Subpart E, October 30, 1987. Before beginning the reinspection, the inspector coordinated with a representative of the LEA to discuss the facility reinspection, including the designating of escorts, providing access, preferred inspection and other issues.

The reinspection included the following tasks:

Record Document Review

Prior to conducting the visual inspection, FE reviewed the following asbestos-related document provided by the client:

- AHERA Periodic Surveillance Report – July 2019, prepared by FE, dated July 6, 2019

Reinspection and Reassessment

Each homogenous area (HA) of known or assumed ACBM, as identified in the provided asbestos-related document, was visually inspected and then touched to determine friability. Areas of ACBM that were observed to be damaged or to have changed since the last reinspection were photographed and the location noted on the floor plan.

The condition of the ACBM was reassessed to determine the likelihood that the ACBM would release asbestos fibers into the environment. The condition of each homogeneous known or assumed ACBM was assessed using the following considerations:

Friability:

- Friable: the material may be crumbled, pulverized or reduced to powder by hand pressure when dry.
- Non-Friable: the material remains intact and does not become crumbled, pulverized or reduced to powder by hand pressure when dry

Condition:

- No Damage: No damage or little damage
- Damaged: Less than 10% damaged, evenly distributed over the entire material or less than 25% damaged confined to a localized area of the material
- Significantly Damaged: More than 10% damaged distributed evenly over the entire material or more than 25% damaged within a localized area of the material

Type of Damage:

- Physical Damage
- Water Damage
- Air Erosion

- Delamination and Deterioration
- Abrasions, Blistering, Crumbling, etc.

Potential for Disturbance:

- Frequency of access to material
- Height of material above the floor or other climbable surface
- Location of material in a plenum
- Degree of exposure of material
- Accessibility of material
- Presence in an area of air movement, vibrations or loud noises

Based on the above criteria, identified ACBM were classified into one of the following seven AHERA assessment categories:

- Significantly Damaged or Damaged Thermal System Insulation ACM
- Damaged Friable Surfacing ACM
- Significantly Damaged Friable Surfacing ACM
- Significantly Damaged or Damaged Friable Miscellaneous ACM
- ACBM with Potential for Damage
- ACBM with Potential for Significant Damage
- Any Remaining Friable ACBM or Friable Suspected ACBM

Reinspection Limitations

The reinspection was limited to the facilities, and portions thereof, included in the existing Asbestos Management Plan (AMP) and previous AHERA three-year reinspection report. Any additions or new construction, where AHERA 763.99 exclusions have not been met, will require an initial AHERA inspection and development of an AMP. The reinspection was further limited by accessibility of the building spaces. Inaccessible areas of the building, where locked or admittance was not otherwise permitted, are indicated in the ACBM Assessment Form and on the Floor Plans.

The reinspection is intended to meet the AHERA requirements for conducting three-year reinspections. This report is not intended to meet the renovation and demolition asbestos inspection requirements for the National Emissions Standards for Hazardous Air Pollutants (NESHAP).

Response Actions

The reassessment findings were reviewed to determine the appropriate AHERA response action. In selecting a response action, the action must protect human health and the environment, and be the least burdensome to the LEA. AHERA's five response actions include:

- Operation and Maintenance (O&M) Program: a program of training, cleaning, work practices, and periodic surveillance to maintain ACBM in good condition.
- Repair: limited replacement and patching to return damaged ACBM to an undamaged condition or to an intact state
- Encapsulation: treating ACBM with a liquid that, after proper application, surrounds or embeds asbestos fibers in an adhesive matrix to prevent fiber release.

- Enclosure: an airtight barrier installed between the subject ACBM and the building environment.
- Removal

Section 3 Facility Specific Records

General

For each facility assessed during the three-year reinspection, the following parts are presented to document the AHERA-related findings and records:

Part 1 – Floor Plan

Floor plans are provided to assist in identification of areas included in the three-year reinspection and for general reference. The floor plans also include locations where photographs, included in Part 2, were taken.

Part 2 – Photographs

Where damaged areas of ACBM were observed, a photograph of the area was taken to document the site condition identified by the inspector. Information regarding the subject location, type of ACBM, observation and response action recommendation is provided for each photograph.

Part 3 – ACBM Assessment Form

This form contains the findings of the reinspection and reassessment of known and assumed ACBM. For each ACBM, information is provided regarding friability, condition, type of damage, potential for disturbance, AHERA hazard assessment category, and recommended response action.

Section 4 Regulatory Guidelines

Acronyms

ACM: Asbestos-Containing Material

ACBM: Asbestos-Containing Building Material

AHERA: Asbestos Hazardous Emergency Response Act

LEA: Local Education Agency

OEPA: Ohio Environmental Protection Agency

O&M: Operations and Maintenance

TSI: Thermal System Insulation

US-EPA: United States Environmental Protection Agency

Definitions

Asbestos-containing material (ACM): any material or product which contains more than 1 percent asbestos.

Asbestos-containing building material (ACBM): ACM that is found in or on interior structural members or other parts of a school building.

Asbestos debris: pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.

Damaged ACM: ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Encapsulation: the treatment of ACBM with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers, as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

Enclosure: an airtight, impermeable, permanent barrier around ACBM to prevent the release of asbestos fibers into the air.

Friable: means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable

material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Functional space: a room or group of rooms, such as classrooms, cafeteria, gymnasium, hallways, designated by a person accredited to prepare management plans, design abatement projects, or conduct response actions.

Homogeneous area: an area of material that is uniform in color and texture.

Inspection: an activity to determine the presence or location, or to assess the condition of, friable or non-friable ACBM, whether by visual or physical examination, or by collecting samples of such material. This term includes reinspections of friable and non-friable known or assumed ACBM which has been previously identified.

Local education agency (LEA): Any local educational agency as defined in section 198 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 3381); or the owner of any nonpublic, nonprofit elementary, or secondary school building. provided for under the Defense Dependents' Education Act of 1978 (20 U.S.C. 921, et seq.).

Management Plan: a site-specific guidance document that the LEA designated person must follow in managing the ACBM present in a school building.

Miscellaneous ACM: means interior ACBM on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

Nonfriable: means material which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure.

Operations and maintenance (O&M) program: a program of work practices to maintain friable ACBM in good condition, ensure cleanup of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACBM disturbance or damage.

Removal: the taking out or the stripping of substantially all ACBM from a damaged area, a functional space, or a homogeneous area in a school building.

Repair: returning damaged ACBM to an undamaged condition or to an intact state so as to prevent fiber release.

Response action: a method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACBM.

Routine maintenance area: an area, such as a boiler room or mechanical room, that is not normally frequented by students and in which maintenance employees or contract workers regularly conduct maintenance activities.

Significantly damaged ACM: damaged friable ACM where the damage is extensive and severe.

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

Thermal system insulation (TSI): material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

US-EPA AHERA

Under AHERA, a plan for reinspection must be included in the Asbestos Management Plan (AMP). The reinspection must be made by an accredited inspector of all friable and nonfriable known or assumed ACBM in each school building that the LEA leases, owns, or otherwise uses as a school building.

LEAs are responsible for ensuring compliance with the AHERA rule and are required, among other things, to develop and maintain an up-to-date AMP, conduct training, inspections, and sampling related to asbestos, manage asbestos properly and provide yearly notification to parents, teachers and employee organizations about the AMP and any asbestos-related activities.

LEAs are also responsible for designating a contact person known as the Designated Person (DP) to oversee asbestos-related activities in the school and ensure that the AHERA responsibilities of the LEA are met. The quality of a school's AMP depends heavily upon the dedication and work of the DP with the support of the LEA. The LEA and the DP work together to ensure that each school is in compliance with federal, state and local asbestos regulations and that there are no uncontrolled releases of asbestos fibers in the school which could pose a health threat to children and school workers.

Section 5 Qualifications

Inspector

I have inspected the subject facilities as part of the AHERA Three-Year Reinspection in general accordance with 40 CFR, Part 763, Subpart E, Section 763.85 and 763.88.

Signature: _____

Inspector: Leann Freeman

Dates of Reinspection: June 14, 2021 and June 15, 2021

US-EPA Accreditation: 21 TSI 86781 ir

Management Planner

I have reviewed the reassessment of ACBM and made recommendations for response actions in general accordance with 40 CFR, Part 763, Subpart E, Section 763.90.

Signature: _____

Management Planner: Leann Freeman

Date: July 5, 2021

US-EPA Accreditation: 21 TSI 86797 mpr

Report

The following FE representative developed the Three-Year Reinspection Report:

Signature: _____

Name: Leann Freeman

Prepared on: July 5, 2021

Section A – Brown Middle School

Part 1 – Floor Plans

Basement Level

Drawing Type: Floor Plan

Project Location: Brown Middle School
228 South Scranton St
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Ground Level

Drawing Type: Floor Plan

Project Location: Brown Middle School
228 South Scranton St
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

— Space identification

Photo location

FREEMAN ENVIRONMENTAL
37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Ground Level

Drawing Type: Floor Plan

Project Location: Brown Middle School
228 South Scranton St
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Second Level

Drawing Type: Floor Plan

Project Location: Brown Middle School
228 South Scranton St
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section A – Brown Middle School

Part 2 – Photographs

Part 2 – Photographs

Facility:	Brown Middle School – 228 South Scranton Street, Ravenna, Ohio 44266

Photo 01:

Location:
Boiler 01 – ceiling

Material:
Hard plaster ceiling (HA-23)

Observation:
Physical damage, delamination from substrate

Photo 02:

Location:
Boiler 02 – ceiling near entrance to room

Material:
Hard plaster ceiling (HA-23)

Observation:
Physical damage, delamination from substrate

Photo 03:

Location:
Space 20 – Library Office

Material:
Drywall wall system

Observation:
Vertical crack with peeling

Photo 04:
Location:
Space 24 – Gymnasium, east wall
Material:
Pipe joint insulation
Observation:
Crack with friable edges

Photo 05:
Location:
Space 24 – Gymnasium, north wall
Material:
Pipe insulation
Observation:
Damage with friable edges

Photo 06:
Location:
Space 62-B – Girls Restroom
Material:
Ceiling plaster system, smooth finish
Observation:
Delamination of finish coat from scratch coat

Section A – Brown Middle School

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Brown Middle School – 228 South Scranton Street, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
Stair 01	23	Ceiling Plaster, Light Textured	100 sf	Assumed	1	1	1	-	-	1
Stair 02	23	Ceiling Plaster, Light Textured	115 sf	Assumed	1	1	1	-	-	1
Stair 03	23	Ceiling Plaster, Light Textured	100 sf	Assumed	1	1	1	-	-	1
Boiler 01	23	Ceiling Plaster, Light Textured	250 sf	ACBM	4	2	2	2	1	2
	28	Pipe Insulation, Corrugated Paper	30 lf	ACBM	4	1	1	7	-	1
	29	Pipe Joint Insulation, cementitious	10 joints	ACBM	4	1	1	-	-	1
	41	Fire Door Assembly	1 door	Assumed	4	1	1	-	-	1
Boiler 02	23	Ceiling Plaster, Light Textured	1925 sf	ACBM	4	2	2	2	1	2
	28	Pipe Insulation, Corrugated Paper	Removed	-	-	-	-	-	-	-
	29	Pipe Joint Insulation, Cementitious	Removed	-	-	-	-	-	-	-
	30	Breaching Insulation	Removed	-	-	-	-	-	-	-
	31	Distribution Header Insulation	Removed	-	-	-	-	-	-	-
	32	Header Joint Insulation	Removed	-	-	-	-	-	-	-
	33	Boiler Insulation	Removed	-	-	-	-	-	-	-
01	23	Ceiling Plaster, Light Textured	185 sf	Assumed	1	1	1	-	-	1
	29	Pipe Joint Insulation, Cementitious	3 joints	ACBM	1	1	1	-	-	1
B-A	23	Ceiling Plaster, Light Textured	60 sf	Assumed	1	1	1	-	-	1
	29	Pipe Joint Insulation, Cementitious	3 joints	ACBM	1	1	1	-	-	1
B-B	23	Ceiling Plaster, Light Textured	125 sf	Assumed	3	1	1	-	-	1
	28	Pipe Insulation, Corrugated Paper	Removed	-	-	-	-	-	-	-
	29	Pipe Joint Insulation, Cementitious	9 joints	ACBM	3	1	1	-	-	1
B-C	23	Ceiling Plaster, Light Textured	20 sf	Assumed	4	1	1	-	-	1
	28	Pipe Insulation, Corrugated Paper	12 lf	ACBM	4	1	1	7	-	1
B-F	29	Pipe Joint Insulation, Cementitious	3 joints	ACBM	3	1	1	-	-	1
B-M	29	Pipe Joint Insulation, Cementitious	16 joints	ACBM	1	1	1	-	-	1
G-A	23	Ceiling Plaster, Light Textured	20 sf	Assumed	1	1	1	-	-	1
G-B	23	Ceiling Plaster, Light Textured	200 sf	Assumed	1	1	1	-	-	1
	29	Pipe Joint Insulation, Cementitious	8 joints	ACBM	1	1	1	-	-	1
G-C	23	Ceiling Plaster, Light Textured	115 sf	Assumed	1	1	1	-	-	1
	28	Pipe Insulation, Corrugated Paper	27 lf	ACBM	1	1	1	7	-	1
G-D	23	Ceiling Plaster, Light Textured	100 sf	Assumed	3	1	1	-	-	1
	28	Pipe Insulation, Corrugated Paper	57 lf	ACBM	3	1	1	7	-	1
	29	Pipe Joint Insulation, Cementitious	6 joints	ACBM	3	1	1	-	-	1
G-E	23	Ceiling Plaster, Light Textured	200 sf	Assumed	1	1	1	-	-	1
G-F	23	Ceiling Plaster, Light Textured	115 sf	Assumed	1	1	1	-	-	1
G-G	23	Ceiling Plaster, Light Textured	100 sf	Assumed	3	1	1	-	-	1
	28	Pipe Insulation, Corrugated Paper	38 lf	ACBM	3	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
G-H	23	Ceiling Plaster, Light Textured	20 sf	Assumed	1	1	1	-	-	1
02	23	Ceiling Plaster, Light Textured	500 sf	Assumed	3	1	1	-	-	1
	28	Pipe Insulation, Corrugated Paper	Unknown	ACBM	3	1	1	7	-	1
	29	Pipe Joint Insulation, Cementitious	Unknown	ACBM	3	1	1	-	-	1
03	20	Wall Plaster, Light Textured Finish	390 sf	Assumed	1	1	1	-	-	1
	24	Plaster Ceiling, Acoustic Finish	375 sf	Assumed	1	1	2	5	-	1
04	20	Wall Plaster, Light Textured Finish	2400 sf	Assumed	1	1	1	-	-	1
	24	Plaster Ceiling, Acoustic Finish	1735 sf	Assumed	1	1	2	5	-	1
05	03	Floor Tile, 12” Beige w/ White/Tan	695 sf	Assumed	2	1	1	-	-	1
	18	Vinyl Cove Base, 4” Black	105 lf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Finish	1160 sf	Assumed	2	1	1	-	-	1
	24	Plaster Ceiling, Acoustic Finish	695 sf	Assumed	2	1	2	5	-	1
06-A	10	Floor Tile, 9” Dark Green w/ Cream	120 sf	Assumed	4	1	1	-	-	1
	11	Floor Tile, 9” Cream w/ Dark Green	120 sf	Assumed	4	1	1	-	-	1
	19	Vinyl Cove Base, 4” Dark Green	60 lf	Assumed	4	1	1	-	-	1
	20	Wall Plaster, Light Textured Finish	600 sf	Assumed	4	1	1	-	-	1
	24	Plaster Ceiling, Acoustic Finish	240 sf	Assumed	4	1	2	-	-	1
06-B	05	Floor Tile, 9” Cream w/ Black/Gray	25 sf	Assumed	4	1	1	-	-	1
	17	Vinyl Cove Base, 4” Light Beige	15 lf	Assumed	4	1	1	-	-	1
	20	Wall Plaster, Light Textured Finish	195 sf	Assumed	4	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	25 sf	Assumed	4	1	1	-	-	1
07	12	Floor Tile, 9” Dark Rose w/ Cream	25 sf	Assumed	4	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	15 lf	Assumed	4	1	1	-	-	1
	20	Wall Plaster, Light Textured Finish	195 sf	Assumed	4	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	25 sf	Assumed	4	1	1	-	-	1
08	20	Wall Plaster, Light Textured Finish	215 sf	Assumed	4	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	240 sf	Assumed	4	1	1	-	-	1
09	08	Floor Tile, 9” Green w/ Green/White	145 sf	Removed	-	-	-	-	-	-
	20	Wall Plaster, Light Textured Finish	275 sf	Assumed	1	1	1	-	-	1
	24	Plaster Ceiling, Acoustic Finish	145 sf	Assumed	1	1	2	5	-	1
	New	Floor Tile, 12” royal blue & white	145 sf	Assumed	1	1	1	-	-	1
10	01	Floor Tile, 12” Beige w/ Cream/Tan	120 sf	Assumed	1	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	45 lf	Assumed	1	1	1	-	-	1
	22	Wall Mastic, Under Plastic Panels	485 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	120 sf	Assumed	1	1	1	-	-	1
	25	Suspended Panel Ceiling	120 sf	Assumed	1	1	1	-	-	1
11	01	Floor Tile, 12” Beige w/ Cream/Tan	25 sf	Assumed	1	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	15 lf	Assumed	1	1	1	-	-	1
	22	Wall Mastic, Under Plastic Panels	150 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	25 sf	Assumed	1	1	1	-	-	1
	26	Suspended Panel Ceiling	25 sf	Assumed	1	1	1	-	-	1
12-A	01	Floor Tile, 12” Beige w/ Cream/Tan	15 sf	Assumed	1	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	15 lf	Assumed	1	1	1	-	-	1
	22	Wall Mastic, Under Plastic Panels	115 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	15 sf	Assumed	1	1	1	-	-	1
12-B	01	Floor Tile, 12” Beige w/ Cream/Tan	100 sf	Assumed	1	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	35 lf	Assumed	1	1	1	-	-	1
	22	Wall Mastic, Under Plastic Panels	395 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	100 sf	Assumed	1	1	1	-	-	1
	25	Suspended Panel Ceiling	100 sf	Assumed	1	1	1	-	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
12-C	01	Floor Tile, 12” Beige w/ Cream/Tan	15 sf	Assumed	1	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	15 lf	Assumed	1	1	1	-	-	1
	22	Wall Mastic, Under Plastic Panels	115 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	15 sf	Assumed	1	1	1	-	-	1
13	20	Wall Plaster, Light Textured	235 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	270 sf	Assumed	1	1	1	-	-	1
14-A	20	Wall Plaster, Light Textured Finish	235 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	250 sf	Assumed	1	1	1	-	-	1
14-B	-	No Assumed ACBM observed	-	-	-	-	-	-	-	-
15	09	Floor Tile, 12” White w/ Gray	200 sf	Removed	-	-	-	-	-	-
	18	Vinyl Cove Base, 4” Black	55 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured	640 sf	Assumed	3	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	160 sf	Assumed	3	1	1	-	-	1
	24	Plaster Ceiling System, Finish	480 sf	Assumed	3	1	2	5	-	1
	New	Floor Tile, 12” Royal Blue	200 sf	Assumed	3	1	1	-	-	1
16	09	Floor Tile, 12” White w/ Gray	410 sf	Removed	-	-	-	-	-	-
	18	Vinyl Cove Base, 4” Black	85 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Finish	785 sf	Assumed	3	1	1	-	-	1
	27	Ceiling Tile System, 1’x1’	410 sf	Assumed	3	1	1	-	-	1
	New	Floor Tile, 12” Royal Blue	410 sf	Assumed	3	1	1	-	-	1
17	09	Floor Tile, 12” White w/ Gray	135 sf	Removed	-	-	-	-	-	-
	18	Vinyl Cove Base, 4” Black	45 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster Light Textured Finish	535 sf	Assumed	3	1	1	-	-	1
	24	Plaster Ceiling System, Acoustic	135 sf	Assumed	3	1	2	5	-	1
	New	Floor Tile, 12” Royal Blue	135 sf	Assumed	3	1	1	-	-	1
18	08	Floor Tile, 9” Green w/ Green/White	4560 sf	Removed	-	-	-	-	-	-
	27	Ceiling Tile System, 1’x1’	4985 sf	Assumed	1	1	1	7	-	1
	New	Floor Tile, 12” Royal Blue	4560 sf	Assumed	3	1	1	-	-	1
19	15	Carpet Mastic	1725 sf	Assumed	1	1	1	-	-	1
	18	Vinyl Cove Base, 4” Black	190 lf	Assumed	1	1	1	-	-	1
	-	Drywall wall system	2125 sf	Assumed	1	1	1	-	-	1
	27	Ceiling Tile System. 1’x1’	1725 sf	Assumed	1	1	1	7	-	1
20	01	Floor Tile, 12” Beige w/ Cream/Tan	125 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	45 lf	Assumed	3	1	1	-	-	1
	-	Drywall wall system	480 sf	Assumed	3	2	2	4	1	2
	27	Ceiling Tile System, 1’x1’	125 sf	Assumed	3	1	1	7	-	1
21	08	Floor Tile, 9” Green w/ Green/White	80 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	30 lf	Assumed	3	1	1	-	-	1
	-	Drywall wall system	350 sf	Assumed	3	1	1	-	-	1
	27	Ceiling Tile System, 1’x1’	80 sf	Assumed	3	1	1	7	-	1
22-A	20	Wall Plaster, Light Textured Finish	150 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	900 sf	Assumed	1	1	1	-	-	1
	25	Suspended Panel Ceiling	900 sf	Assumed	1	1	1	7	-	1
22-B	20	Wall Plaster, Light Textured Finish	200 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	640 sf	Assumed	1	1	1	-	-	1
	25	Suspended Panel Ceiling	640 sf	Assumed	1	1	1	7	-	1
22-C	20	Wall Plaster, Textured Finish	300 sf	Assumed	1	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	1440 sf	Assumed	1	1	1	-	-	1
	25	Suspended Panel Ceiling	1440 sf	Assumed	1	1	1	7	-	1
23	27	Ceiling Tile System	1145 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
24	28	Pipe Insulation, Corrugated Paper	255 lf	ACBM	1	2	2	1	1	2
	29	Pipe Joint Insulation, Cementitious	13 joints	ACBM	1	2	2	1	1	2
	34	Sump Insulation Roof Drain System	2 sumps	Assumed	1	1	1	-	-	1
	35	Pipe Insulation Roof Drain System	6 lf	Assumed	1	1	1	7	-	1
	36	Pipe Joint Insulation Roof Drain	2 joints	Assumed	1	1	1	-	-	1
25	23	Ceiling Plaster, Light Textured	1960 sf	Assumed	3	1	1	-	-	1
	-	Vinyl cove base, 4” brown	25 lf	Assumed	3	1	1	-	-	1
	26	Suspended Panel Ceiling	1960 sf	Assumed	3	1	1	7	-	1
29	23	Ceiling Plaster, Light Textured	120 sf	Assumed	3	1	1	-	-	1
	26	Suspended Panel Ceiling	120 sf	Assumed	3	1	1	7	-	1
30	23	Ceiling Plaster, Light Textured	665 sf	Assumed	3	1	1	-	-	1
32-A	23	Ceiling Plaster, Light Textured	100 sf	Assumed	4	1	1	-	-	1
32-B	23	Ceiling Plaster, Light Textured	15 sf	Assumed	4	1	1	-	-	1
34	20	Wall Plaster, Light Textured	400 sf	Assumed	3	1	1	-	-	1
	23	Ceiling Plaster, Light Textured	120 sf	Assumed	3	1	1	-	-	1
36	20	Wall Plaster, Light Textured	775 sf	Assumed	1	1	1	-	-	1
	24	Plaster Ceiling System, Acoustic	500 sf	Assumed	1	1	2	5	-	1
37	13	Floor Tile, 12” Cream w/ Brown	4510 sf	Assumed	1	1	1	-	-	1
	17	Vinyl Cove Base, 4” Dark Brown	265 sf	Assumed	1	1	1	-	-	1
	34	Sump Insulation, Roof Drain	2 sumps	Assumed	1	1	1	-	-	1
	35	Pipe Insulation, Roof Drain System	2 lf	Assumed	1	1	1	7	-	1
	36	Pipe Joint Insulation Roof Drain System	2 joints	Assumed	1	1	1	-	-	1
38	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	225 sf	Assumed	3	1	1	7	-	1
39-A	23	Ceiling Plaster System Light Textured Finish	440 sf	Assumed	1	1	1	-	-	1
39-B	23	Ceiling Plaster System Light Textured Finish	440 sf	Assumed	1	1	1	-	-	1
40-A	23	Ceiling Plaster System Light Textured Finish	55 sf	Assumed	3	1	1	-	-	1
40-B	23	Ceiling Plaster System Light Textured Finish	55 sf	Assumed	3	1	1	-	-	1
41	29	Pipe Joint Insulation Cementitious Material	1 joint	ACBM	1	1	1	-	-	1
42-A	23	Ceiling Plaster System Light Textured Finish	385 sf	Assumed	5	1	1	-	-	1
	28	Pipe Insulation Corrugated Paper	52 lf	ACBM	5	1	1	7	-	1
	29	Pipe Joint Insulation Cementitious Material	6 joints	ACBM	5	1	1	-	-	1
	37	Duct Flex Connector Brown on Round Duct	1 sf	Assumed	5	1	1	7	-	1
	38	Duct Flex Connector Medium Brown on Square Duct	1 sf	Assumed	5	1	1	7	-	1
	39	Duct Flex Connector Light Brown on Square Duct	8 sf	Assumed	5	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
42-B	23	Ceiling Plaster System Light Textured Finish	385 lf	Assumed	5	1	1	-	-	1
	28	Pipe Insulation Corrugated Paper	27 lf	ACBM	5	1	1	7	-	1
	29	Pipe Joint Insulation Cementitious Material	4 joints	ACBM	5	1	1	-	-	1
	37	Duct Flex Connector Brown on Round Duct	5 sf	Assumed	5	1	1	7	-	1
	38	Duct Flex Connector Medium Brown on Square Duct	5 sf	Assumed	5	1	1	7	-	1
	39	Duct Flex Connector Light Brown on Square Duct	17 sf	Assumed	5	1	1	7	-	1
	40	Duct Plaster Seams and Fasteners	150 sf	Assumed	5	1	1	7	-	1
43	16	Carpet Mastic Under Brown Carpet	90 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	30 lf	Assumed	3	1	1	-	-	1
	21	Wall Drywall System Smooth Finish	85 sf	Assumed	3	1	1	-	-	1
	23	Ceiling Plaster System Light Textured Finish	90 sf	Assumed	3	1	1	-	-	1
44	17	Vinyl Cove Base 4” Dark Brown	30 lf	Assumed	3	1	1	-	-	1
	21	Wall Drywall System Smooth Finish	85 sf	Assumed	3	1	1	-	-	1
	23	Ceiling Plaster System Light Textured Finish	150 sf	Assumed	3	1	1	-	-	1
45	01	Composition Floor Tile 12” Beige w/ Cream and Tan	1330 sf	Assumed	2	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	125 lf	Assumed	2	1	1	-	-	1
	27	Ceiling Tile System 1’x1’ with Random Fissures	1330 sf	Assumed	2	1	1	7	-	1
	29	Pipe Joint Insulation Cementitious Material	4 joints	ACBM	2	1	1	-	-	1
46	01	Composition Floor Tile 12” Beige w/ Cream and Tan	50 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	25 lf	Assumed	3	1	1	-	-	1
	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	50 sf	Assumed	3	1	1	7	-	1
47	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	50 sf	Assumed	3	1	1	7	-	1
48	01	Composition Floor Tile 12” Beige w/ Cream and Tan	50 sf	Assumed	2	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	25 lf	Assumed	2	1	1	-	-	1
	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	50 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
49	01	Composition Floor Tile 12” Beige w/ Cream and Tan	50 sf	Assumed	2	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	25 lf	Assumed	2	1	1	-	-	1
	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	50 sf	Assumed	2	1	1	7	-	1
50	01	Composition Floor Tile 12” Beige w/ Cream and Tan	50 sf	Assumed	2	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	25 lf	Assumed	2	1	1	-	-	1
	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	50 sf	Assumed	2	1	1	7	-	1
51	01	Composition Floor Tile 12” Beige w/ Cream and Tan	50 sf	Assumed	2	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	25 lf	Assumed	2	1	1	-	-	1
	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	50 sf	Assumed	2	1	1	7	-	1
52	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	90 sf	Assumed	1	1	1	7	-	1
Stair 04	26	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	125 sf	Assumed	1	1	1	7	-	1
53	23	Ceiling Plaster System Light Textured Finish	1715 sf	Assumed	2	1	1	-	-	1
	-	Carpet adhesive	1715 sf	Assumed	2	1	1	-	-	1
	-	Vinyl cove base, 4” red/brown	75 lf	Assumed	2	1	1	-	-	1
54	23	Ceiling plaster system	50 sf	Assumed	2	1	1	-	-	1
55	23	Ceiling plaster system	30 sf	Assumed	2	1	1	-	-	1
	29	Pipe fitting insulation	2 ea	Assumed	2	1	1	-	-	1
56A	-	Carpet adhesive	600 sf	Assumed	2	1	1	-	-	1
	-	Vinyl cove base, 4” red/brown	50 lf	Assumed	2	1	1	-	-	1
	29	Pipe fitting insulation	2 ea	Assumed	2	1	1	-	-	1
56B	23	Ceiling Plaster System Light Textured Finish	290 sf	Assumed	3	1	1	-	-	1
	29	Pipe Joint Insulation Cementitious Material	5 joints	ACBM	3	1	1	-	-	1
57	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Light Textured Finish	75 sf	Assumed	1	1	1	-	-	1
58	02	Composition Floor Tile 9” Cream w/ Blue & Dark Brown	1070 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	1070 sf	Assumed	2	1	1	7	-	1
59-A	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	-	Hard plaster ceiling, smooth finish	25 sf	Assumed	1	1	1	-	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
59-B	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	-	Hard plaster ceiling, smooth finish	180 sf	Assumed	1	1	1	-	-	1
Stair 05	25	Suspended Panel Ceiling 2'x4' w/ Fissures/Perforations	150 sf	Assumed	1	1	1	7	-	1
61	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Light Textured Finish	85 sf	Assumed	4	1	1	-	1	1
62-A	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	25 sf	Assumed	1	1	1	-	-	1
62-B	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	260 sf	Assumed	1	2	2	2	3	2
63-A	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	25	Suspended Panel Ceiling 2'x4' w/ Fissures/Perforations	3200 sf	Assumed	1	1	1	7	-	1
63-B	29	Pipe Joint Insulation Cementitious Material	Not Known	ACBM	5	1	1	-	-	1
64	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	165 sf	Assumed	3	1	1	7	-	1
65	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Light Textured Finish	30 sf	Assumed	3	1	1	-	-	1
66	03	Composition Floor Tile 9" Lt Beige w/ White and Tan	115 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	115 sf	Assumed	3	1	1	7	-	1
67	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Light Textured Finish	100 sf	Assumed	3	1	1	-	-	1
68	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
69	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
70	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	325 sf	Assumed	3	1	1	7	-	1
Stair 06	25	Suspended Panel Ceiling 2'x4' w/ Fissures/Perforations	590 sf	Assumed	1	1	1	7	-	1
71-A	23	Ceiling Plaster System Light Textured Finish	80 sf	Assumed	1	1	1	-	-	1
72	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
73	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
74	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
75	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
76	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
77	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
78	-	No suspect materials	-	-	-	-	-	-	-	-
Stair 07	25	Suspended Panel Ceiling 2'x4' w/ Fissures/Perforations	250 sf	Assumed	1	1	1	7	-	1
79	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
80	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
81	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
82	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
83	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
84	05	Composition Floor Tile 9” Cream w/ Black and Gray	45 sf	Assumed	3	1	1	-	-	1
	14	Carpet Mastic Under Blue/Brown/Beige Carpet	315 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	330 sf	Assumed	3	1	1	7	-	1
85	14	Carpet Mastic Under Blue/Brown/Beige Carpet	150 sf	Assumed	3	1	1	-	-	1
	27	Ceiling Tile System 1’x1’ with Random Fissures	150 sf	Assumed	3	1	1	7	-	1
86	14	Carpet Mastic Under Blue/Brown/Beige Carpet	95 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4” Black	35 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	95 sf	Assumed	3	1	1	7	-	1
87	14	Carpet Mastic Under Blue/Brown/Beige Carpet	80 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	30 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	80 sf	Assumed	3	2	3	4	1	2

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
88	14	Carpet Mastic Under Blue/Brown/Beige Carpet	115 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4" Dark Brown	20 lf	Assumed	3	1	1	-	-	1
	27	Ceiling Tile System 1'x1' with Random Fissures	115 sf	Assumed	3	1	1	7	-	1
89-A	14	Carpet Mastic Under Blue/Brown/Beige Carpet	30 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4" Dark Brown	10 lf	Assumed	3	1	1	-	-	1
	27	Ceiling Tile System 1'x1' with Random Fissures	30 sf	Assumed	3	1	1	7	-	1
89-B	14	Carpet Mastic Under Blue/Brown/Beige Carpet	105 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4" Dark Brown	40 lf	Assumed	3	1	1	-	-	1
	20	Wall plaster, light texture	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	105 sf	Assumed	3	1	1	7	-	1
90	14	Carpet Mastic Under Blue/Brown/Beige Carpet	135 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4" Dark Brown	45 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	135 sf	Assumed	3	1	1	7	-	1
91	14	Carpet Mastic Under Blue/Brown/Beige Carpet	130 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4" Dark Brown	45 lf	Assumed	3	1	1	-	-	1
	27	Ceiling Tile System 1'x1' with Random Fissures	130 sf	Assumed	3	1	1	7	-	1
92	14	Carpet Mastic Under Blue/Brown/Beige Carpet	85 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4" Dark Brown	30 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	85 sf	Assumed	3	1	1	7	-	1
93	06	Composition Floor Tile 9" Gold w/ White and Gray	500 sf	Assumed	2	1	1	-	-	1
	07	Composition Floor Tile 9" Cream w/ White and Gold	500 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	1000 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
94	04	Composition Floor Tile 9” Cream w/ Orange and Brown	325 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	325 sf	Assumed	2	1	1	7	-	1
95	06	Composition Floor Tile 9” Gold w/ White and Gray	12 sf	Assumed	3	1	1	-	-	1
	07	Composition Floor Tile 9” Cream w/ White and Gold	12 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	25 sf	Assumed	3	1	1	7	-	1
96	06	Composition Floor Tile 9” Gold w/ White and Gray	12 sf	Assumed	3	1	1	-	-	1
	07	Composition Floor Tile 9” Cream w/ White and Gold	12sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	25 sf	Assumed	3	1	1	7	-	1
97	04	Composition Floor Tile 9” Cream w/ Orange and Brown	875 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	875 sf	Assumed	2	1	1	7	-	1
98	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	25	Suspended Panel Ceiling 2’x4’ w/ Fissures/Perforations	4665 sf	Assumed	1	1	1	7	-	1
99	-	Elevator	-	-	-	-	-	-	-	-
100	04	Composition Floor Tile 9” Cream w/ Orange and Brown	1950 sf	Assumed	2	1	1	-	-	1
	21	Wall Drywall System Smooth Finish	360 sf	Assumed	2	1	1	-	-	1
	27	Ceiling Tile System 1’x1’ with Random Fissures	1950 sf	Assumed	2	1	1	7	-	1
102	01	Composition Floor Tile 12” Beige w/ Cream and Tan	600 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	600 sf	Assumed	3	1	1	7	-	1
103	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
104	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
105	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
106	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	3	1	1	7	-	1
107-A	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	25 sf	Assumed	1	1	1	-	-	1
107-B	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	255 sf	Assumed	1	1	1	-	-	1
108	17	Vinyl Cove Base 4” Dark Brown	45 lf	Assumed	4	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Light Textured Finish	105 sf	Assumed	4	1	1	-	-	1
	29	Pipe Joint Insulation Cementitious Material	2 joints	ACBM	4	1	1	-	-	1
	29	Pipe Joint Insulation Inside pipe chase	20 joints	ACBM	4	1	1	-	-	1
109-A	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	25 sf	Assumed	1	1	1	-	-	1
109-B	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	265 sf	Assumed	1	1	1	-	-	1
110	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	23	Ceiling Plaster System Smooth finish	105 sf	Assumed	3	1	1	-	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
111	05	Composition Floor Tile 9” Cream w/ Black and Gray	210 sf	Assumed	3	1	1	-	-	1
	17	Vinyl Cove Base 4” Dark Brown	55 lf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	210 sf	Assumed	3	1	1	7	-	1
112	04	Composition Floor Tile 9” Cream w/ Orange and Brown	1815 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	1815 sf	Assumed	2	1	1	7	-	1
113	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
114	04	Composition Floor Tile 9” Cream w/ Orange and Brown	235 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	235 sf	Assumed	2	1	1	7	-	1
115	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
116	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
117	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
118	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
119	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
120	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
121	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
122	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
123	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
124	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
125	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
126	04	Composition Floor Tile 9” Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1’x1’ with Random Fissures	725 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
127	10	Composition Floor Tile 9" Dark Green w/ Cream	360 sf	Assumed	2	1	1	-	-	1
	11	Composition Floor Tile 9" Cream w/ Dark Green	360 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
128	10	Composition Floor Tile 9" Dark Green w/ Cream	360 sf	Assumed	2	1	1	-	-	1
	11	Composition Floor Tile 9" Cream w/ Dark Green	360 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
129	10	Composition Floor Tile 9" Dark Green w/ Cream	360 sf	Assumed	2	1	1	-	-	1
	11	Composition Floor Tile 9" Cream w/ Dark Green	360 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
130	04	Composition Floor Tile 9" Cream w/ Orange and Brown	725 sf	Assumed	2	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	725 sf	Assumed	2	1	1	7	-	1
131	04	Composition Floor Tile 9" Cream w/ Orange and Brown	325 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	325 sf	Assumed	3	1	1	7	-	1
132	04	Composition Floor Tile 9" Cream w/ Orange and Brown	185 sf	Assumed	3	1	1	-	-	1
	20	Wall Plaster, Light Textured Light Textured Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Ceiling Tile System 1'x1' with Random Fissures	185 sf	Assumed	3	1	1	7	-	1

References:

1 Limited Asbestos Survey Report – Hard Plaster Systems – South Classroom Wing - issued June 18, 2018 by Freeman Environmental

Section B – Carlin Elementary School

Part 1 – Floor Plans

First Floor

Drawing Type: Floor Plan

Project Location: Carlin Elementary
531 Washington St.
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Second Floor

Drawing Type: Floor Plan

Project Location: Carlin Elementary
531 Washington St.
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section B – Carlin Elementary School

Part 2 – Photographs

Part 2 – Photographs	
Facility:	Carlin Elementary School – 531 Washington Street, Ravenna, Ohio 44266

No photos collected during the June 2021 reinspection; No significant damaged to assumed or confirmed ACBM were observed.

Section B – Carlin Elementary School

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Carlin Elementary School – 531 Washington Street, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Exterior 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
01	40	Fire Door Assembly	1 door	Assumed	4	1	1	-	-	1
02-A	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling	1625 sf	Assumed	2	1	1	7	-	1
02-B	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
02-C	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	50 sf	Assumed	2	1	1	7	-	1
03	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling	225 sf	Assumed	2	1	1	7	-	1
04-A	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	32	Pipe Insulation, Corrugate Paper	36 lf	ACBM	4	1	1	5	-	1
04-B	32	Pipe Insulation, Corrugate Paper	70 lf	ACBM	4	1	1	5	-	1
	33	Pipe Joint Insulation, Cementitious	8 joints	Assumed	4	1	1	5	-	1
05	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling	225 sf	Assumed	2	2	2	4	2	5
06	17	Carpet Mastic	275 sf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
07	17	Carpet Mastic	190 sf	Assumed	3	1	1	-	-	1
	20	Vinyl Cove Base, 4" Dark Brown	45 lf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	550 sf	Assumed	3	1	1	-	-	1
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	190 sf	Assumed	3	1	1	7	-	1
08	17	Carpet Mastic	125 sf	Assumed	3	1	1	-	-	1
	21	Vinyl Cove Base, 4" Medium Brown	35 lf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	125 sf	Assumed	3	1	1	7	-	1
09	05	Sheet Flooring, Cream and Black	200 sf	Assumed	3	2	2	4	1	2
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	
	28	Ceiling Tile, 1'x1' Random Drill Holes	200 sf	Assumed	3	1	1	7	-	1
	32	Pipe Insulation, Corrugate Paper	12 lf 3"	ACBM	3	1	1	5	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
10	01	Composition Floor Tile, 12" Tan Mottle	20 sf	Assumed	3	1	1	-	-	1
	22	Vinyl Cove Base, 6" Dark Brown	15 lf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
11	02	Floor Tile, 9" White w/ Dark Gray	10 sf	Assumed	2	1	1	-	-	1
	06	Sheet Flooring, Gray/Peach Marble	775 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	800 sf	Assumed	2	1	1	7	-	1
	29	Sheet on Bookcase, Green	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
	32	Pipe Insulation, Corrugate Paper	12 lf 3"	ACBM	2	1	1	5	-	1
12	07	Sheet Flooring, Green/Blue Marble	715 sf	Assumed	2	1	1	-	-	1
	08	Sheet Flooring, Green with Cream	75 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	790 sf	Assumed	2	1	1	7	-	1
	29	Sheet on Bookcase, Green	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
	32	Pipe Insulation, Corrugate Paper	24 lf 3"	ACBM	2	1	1	5	-	1
13	18	Carpet Mastic, Under Brown Carpet	970 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	970 sf	Assumed	2	1	1	7	-	1
	30	Sheeting on Bookcase, Brown	-	Non-ACBM[2]	-	-	-	-	-	-
	32	Pipe Insulation, Corrugate Paper	12 lf 3"	ACBM	2	1	1	5	-	1
14	09	Sheet Flooring, Brown Streaks	55 sf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	32	Pipe Insulation, Corrugate Paper	36 lf	ACBM	3	1	1	5	-	1
15	09	Sheet Flooring, Brown Streaks	85 sf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
16-A	17	Carpet Mastic, Gray/Pink/Blue Carpet	45 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
17	02	Floor Tile, 9"x9" White w/ Dark Gray	5 sf	Assumed	2	1	1	-	-	1
	03	Floor Tile, 9" Brown w/ White/Brown	5 sf	Assumed	2	1	1	-	-	1
	10	Sheet Flooring, Rust/Cream Marble	645 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	655 sf	Assumed	2	1	1	7	-	1
	30	Sheeting on Bookcase, Brown	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
18	-	No suspect ACBM	-	-	-	-	-	-	-	-
19	11	Sheet Flooring, Tan/Red/Green	130 sf	Assumed	4	1	1	-	-	1
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
20	32	Pipe Insulation, Corrugate Paper	30 lf	ACBM	2	1	1	5	-	1
	33	Pipe Joint Insulation, Cementitious	2 joints	Assumed	2	1	1	5	-	1
	34	Roof Sump Insulation, Cementitious	2 sumps	Assumed	2	1	1	5	-	1
	35	Roof Drainpipe Insulation, Paper	35 lf	Assumed	2	1	1	5	-	1
	36	Roof Drainpipe Joint Insulation	4 joints	Assumed	2	1	1	5	-	1
21-A	32	Pipe Insulation, Corrugate Paper	2 lf	ACBM	4	1	1	5	-	1
	37	Duct Flex Connector, Beige Square	2 sf	Assumed	4	1	1	7	-	1
	38	Duct Flex Connector, Brown Square	3 sf	Assumed	4	1	1	7	-	1
21-B	32	Pipe Insulation, Corrugate Paper	20 lf	ACBM	4	1	1	5	-	1
	33	Pipe Joint Insulation, Cementitious	6 joints	Assumed	4	1	1	5	-	1
	37	Duct Flex Connector, Beige Square	2 sf	Assumed	4	1	1	7	-	1
	38	Duct Flex Connector, Brown Square	3 sf	Assumed	4	1	1	7	-	1
22	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
24-A/B	19	Carpet Mastic, Under Blue/Gray	245 sf	Assumed	3	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	32	Pipe Insulation, Corrugate Paper	12 lf	ACBM	3	1	1	5	-	1
24-C	32	Pipe Insulation, Corrugate Paper	14 lf	ACBM	4	1	1	5	-	1
	33	Pipe Joint Insulation, Cementitious	9 joints	Assumed	4	1	1	5	-	1
	39	Duct Flex Connector, Beige Round	1 sf	Assumed	4	1	1	7	-	1
28	04	Floor Tile, 9” White w/ Green/Gray	780 sf	Assumed	2	1	1	-	-	1
	25	Acoustical Wall Panels, 1’x1’	70 sf	Assumed	2	1	1	7	-	1
29	04	Floor Tile, 9” White w/ Green/Gray	780 sf	Assumed	2	1	1	-	-	1
	25	Acoustical Wall Panels, 1’x1’	70 sf	Assumed	2	1	1	7	-	1
30	04	Floor Tile, 9” White w/ Green/Gray	780 sf	Assumed	2	1	1	-	-	1
	23	Vinyl Cove Base, 4” Light Gray	10 lf	Assumed	2	1	1	-	-	1
	25	Acoustical Wall Panels, 1’x1’	70 sf	Assumed	2	1	1	7	-	1
31	04	Floor Tile, 9” White w/ Green/Gray	780 sf	Assumed	2	1	1	-	-	1
	23	Vinyl Cove Base, 4” Light Gray	10 lf	Assumed	2	1	1	-	-	1
	25	Acoustical Wall Panels, 1’x1’	70 sf	Assumed	2	1	1	7	-	1
32	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
33	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling, 2’x4’	1055 sf	Assumed	2	1	1	7	-	1
34	02	Floor Tile, 9” White w/ Dark Gray	2 sf	Assumed	2	1	1	-	-	1
	09	Sheet Flooring, Brown Streaks	35 sf	Assumed	2	1	1	-	-	1
	15	Sheet Flooring, Rose/Green/Cream	745 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1’x1’ Random Drill Holes	785 sf	Assumed	2	1	1	7	-	1
	30	Sheeting on Bookcase, Brown	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
35	16	Sheet Flooring, Green/Cream Marble	255 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling, 2’x4’	255 sf	Assumed	2	1	1	7	-	1
36	12	Sheet Flooring, Green/Cream/Black	810 sf	Assumed	2	1	1	-	-	1
	22	Vinyl Cove Base, 6” Dark Brown	130 lf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
-	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1’x1’ Random Drill Holes	810 sf	Assumed	2	1	1	7	-	1
37	28	Ceiling Tile, 1’x1’ Random Drill Holes	85 sf	Assumed	3	3	3	4	2	5
	33	Pipe Joint Insulation, Cementitious	2 joints	Assumed	3	1	1	5	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
38	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling, 2'x4'	264 sf	Assumed	2	1	1	7	-	1
39-A	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
39-B	32	Pipe Insulation, Corrugate Paper	30 lf	ACBM	4	1	1	5	-	1
	33	Pipe Joint Insulation, Cementitious	2 joints	Assumed	4	1	1	5	-	1
40	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling, 2'x4'	240 sf	Assumed	2	1	1	7	-	1
41	14	Sheet Flooring, Tan/Red/Black Marble	775 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	30	Sheeting on Bookcase, Brown		Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
42	13	Sheet Flooring, Cream/Red/Green	200 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
43	01	Floor Tile, 12"x12" Tan Mottle	18 sf	Assumed	2	1	1	-	-	1
	22	Vinyl Cove Base, 6" Dark Brown	15 lf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
44	03	Floor Tile. 9" Brown w/ White/Dk	10 sf	Assumed	2	1	1	-	-	1
	10	Sheet Flooring, Rust/Cream Marble	725 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	735 sf	Assumed	2	1	1	7	-	1
	30	Sheeting on Bookcase, Brown	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
45	08	Sheet Flooring, Green with Cream	30 sf	Assumed	2	1	1	-	-	5
	12	Sheet Flooring, Green/Cream/Black	670 sf	Assumed	2	1	1	-	-	5
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	700 sf	Assumed	2	1	1	7	-	1
	29	Sheet on Bookcase, Green	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
46	06	Sheet Flooring, Gray and Peach	750 sf	Assumed	2	1	1	-	-	1
	08	Sheet Flooring, Green with Cream	35 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	785 sf	Assumed	2	1	1	7	-	1
	29	Sheet on Bookcase, Green	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
47	08	Sheet Flooring, Green with Cream	70 sf	Assumed	2	1	1	-	-	1
	12	Sheet Flooring, Green/Cream/Black	700 sf	Assumed	2	1	1	-	-	1
	24	Wall Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	26	Ceiling Plaster System, Smooth Finish	-	Non-ACBM[1]	-	-	-	-	-	-
	28	Ceiling Tile, 1'x1' Random Drill Holes	770 sf	Assumed	2	1	1	7	-	1
	29	Sheet on Bookcase, Green	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Sheeting on Sink Countertop	-	Non-ACBM[2]	-	-	-	-	-	-
48	26	Ceiling Plaster System, Smooth Finish	180 sf	Non-ACBM[1]	-	-	-	-	-	-
	27	Suspended Panel Ceiling, 2'x4'	180 sf	Assumed	2	1	1	7	-	1

Space ID	HA	Material Description	Quantity (Estimate.)	Asbestos Content	A	B	C	D	E	F
References:										
1 – Limited Asbestos Survey Report – Hard Plaster Systems issued June 18, 2018 by Freeman Environmental										
2 – Limited Asbestos Survey Report – Countertop Sheet Products issued August 23, 2012 by RJRL										

Section C – Rausch Building

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: Rausch
3582 St Rt 59
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

General areas of typical plaster damage

Rausch Building

First Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Drawing Type: Floor Plan

Project Location: Rausch
3582 St Rt 59
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

General areas of typical plaster damage

Rausch Building

Second Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Drawing Type: Floor Plan

Project Location: Rausch
3582 St Rt 59
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

General areas of typical plaster damage

Rausch Building

Third Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section C – Rausch Building

Part 2 – Photographs

Part 2 – Photographs	
Facility:	Rausch – 3582 State Route 59, Ravenna, Ohio 44266

Photo 01:

Location:
Space 03-A – Boiler Room

Material:
Hard plaster ceiling

Observation:
Physical damage, friable material edges

Photo 02:

Location:
Areas of hard plaster damage observed throughout building

Material:
Hard plaster ceilings and walls

Observation:
Water damage and delamination

Section C – Rausch Building

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Rausch – 3582 State Route 59, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
Stair 01	07	Vinyl Stair Tread and Riser Gray with White	175 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	870 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	125 sf	Suspect	1	2	2	2	3	2
	20	Pipe Insulation Corrugated Paper	2 lf	Suspect	1	1	1	7	-	1
	21	Pipe Joint Insulation Cementitious Material	4 joints	Suspect	1	1	1	-	-	1
Stair 02	07	Vinyl Stair Tread and Riser Gray with White	200 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	2000 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	300 sf	Suspect	1	2	2	2	3	2
Stair 03	07	Vinyl Stair Tread and Riser Gray with White	200 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	2000 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	300 sf	Suspect	1	2	2	2	3	2
Stair 04	07	Vinyl Stair Tread and Riser Gray with White	50 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	475 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	75 sf	Suspect	1	1	1	-	-	1
Stair 05	07	Vinyl Stair Tread and Riser Gray with White	160 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1710 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	140 sf	Suspect	1	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
Stair 06	07	Vinyl Stair Tread and Riser Gray with White	20 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	460 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	60 sf	Suspect	1	1	1	-	-	1
Stair 07	07	Vinyl Stair Tread and Riser Gray with White	50 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	475 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	75 sf	Suspect	1	1	1	-	-	1
Stair 08	07	Vinyl Stair Tread and Riser Gray with White	35 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	460 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	60 sf	Suspect	1	1	1	-	1	1
01	16	Ceiling Plaster System Light Textured Finish	415 sf	Suspect	1	1	1	-	-	1
02-C	22	Fire Door Boiler Room Door	1 door	Suspect	4	1	1	-	-	1
03-A	16	Ceiling Plaster System Light Textured Finish	465 sf	Suspect	4	3	2	2	1	2
	22	Fire Door Boiler Room Door	2 doors	Suspect	4	1	1	-	-	1
03-D	23	Duct Flex Connector Beige on Square Duct	6 sf	Suspect	4	1	1	7	-	1
04-A	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	225 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	3	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	750 sf	Suspect	3	1	1	7	-	1
	21	Pipe Joint Insulation Cementitious Material	2 joints	Suspect	3	1	1	-	-	1
04-B	04	Carpet Mastic Under Brown/Tan Carpet	80 sf	Suspect	3	1	1	-	-	1
05	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	225 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	3	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	750 sf	Suspect	3	1	1	7	-	1
	21	Pipe Joint Insulation Cementitious Material	3 joints	Suspect	3	1	1	-	-	1
07	16	Ceiling Plaster System Light Textured Finish	13 sf	Suspect	4	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
08	01	Composition Floor Tile 12” Tan Mottle	165 sf	Suspect	1	1	1	-	-	1
	11	Vinyl Cove Base 4” Beige	55 lf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	165 sf	Suspect	1	1	1	-	-	1
	21	Pipe Joint Insulation Cementitious Material	3 joints	Suspect	1	1	1	-	-	1
09	16	Ceiling Plaster System Light Textured Finish	165 sf	Suspect	3	1	1	-	-	1
10	01	Composition Floor Tile 12” Tan Mottle	165 sf	Suspect	1	1	1	-	-	1
	11	Vinyl Cove Base 4” Beige	55 lf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	165 sf	Suspect	1	1	1	-	-	1
11	04	Carpet Mastic Under Brown/Tan Carpet	1045 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	750 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	1045 sf	Suspect	3	2	2	2	3	2
	21	Pipe Joint Insulation Cementitious Material	3 joints	Suspect	3	1	1	-	-	1
12	04	Carpet Mastic Under Brown/Tan Carpet	405 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	325 sf	Suspect	3	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	55 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	405 sf	Suspect	3	1	1	-	-	1
	21	Pipe Joint Insulation Cementitious Material	2 joints	Suspect	3	1	1	-	-	1
13-A	04	Carpet Mastic Under Brown/Tan Carpet	30 sf	Suspect	3	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	95 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	30 sf	Suspect	3	1	1	-	-	1
13-B	04	Carpet Mastic Under Brown/Tan Carpet	35 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	145 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	35 sf	Suspect	3	1	1	-	-	1
14	12	Wall Plaster System Light Textured Finish	305 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	125 sf	Suspect	1	2	2	2	3	2
	21	Pipe Joint Insulation Cementitious Material	1 joint	Suspect	1	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
15	12	Wall Plaster System Light Textured Finish	This material is quantified under Brown Middle School							
	17	Acoustical Ceiling Plaster System Acoustic Finish	This material is quantified under Brown Middle School							
16	-	No suspect materials	-	-	-	-	-	-	-	-
17	03	Composition Floor Tile 12" Orange w/ Yellow/Brown	240 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	240 sf	Suspect	3	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	240 sf	Suspect	3	1	1	7	-	1
18-A	16	Ceiling Plaster System Light Textured Finish	725 sf	Suspect	1	1	1	-	-	1
18-B	16	Ceiling Plaster System Light Textured Finish	25 sf	Suspect	3	1	1	-	-	1
20	01	Composition Floor Tile 12" Tan Mottle	115 sf	Suspect	1	1	1	-	-	1
	11	Vinyl Cove Base 4" Brown	35 lf	Suspect	1	1	1	-	-	1
	15	Wall Mastic Under Plastic Wall Panels	300 sf	Suspect	1	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and gouges	115 sf	Suspect	1	1	1	7	-	1
21	01	Composition Floor Tile 12" Tan Mottle	45 sf	Suspect	3	1	1	-	-	1
	10	Vinyl Cove Base 4" Medium Brown	25 lf	Suspect	3	1	1	-	-	1
	15	Wall Mastic Under Plastic Wall Panels	195 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	45 sf	Suspect	3	1	1	7	-	1
22	01	Composition Floor Tile 12" Tan Mottle	45 sf	Suspect	1	1	1	-	-	1
	10	Vinyl Cove Base 4" Medium Brown	25 lf	Suspect	1	1	1	-	-	1
	15	Wall Mastic Under Plastic Wall Panels	195 sf	Suspect	1	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and gouges	45 sf	Suspect	1	1	1	7	-	1
23	04	Carpet Mastic Under Brown/Tan Carpet	370 sf	Suspect	3	1	1	-	-	1
	16	Hard plaster ceiling	370 sf	Suspect	3	2	2	2	1	2

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
24-A	01	Composition Floor Tile 12” Tan Mottle	135 sf	Suspect	3	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	45 lf	Suspect	3	1	1	-	-	1
	15	Wall Mastic Under Plastic Wall Panels	375 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and gouges	135 sf	Suspect	3	1	1	7	-	1
24-B	01	Composition Floor Tile 12” Tan Mottle	30 sf	Suspect	3	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	30 lf	Suspect	3	1	1	-	-	1
	15	Wall Mastic Under Plastic Wall Panels	195 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and gouges	30 sf	Suspect	3	1	1	7	-	1
25	04	Carpet Mastic Under Brown/Tan Carpet	660 sf	Suspect	2	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	75 lf	Suspect	2	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	180 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	660 sf	Suspect	2	1	1	7	-	1
26	04	Carpet Mastic Under Brown/Tan Carpet	25 sf	Suspect	3	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	15 lf	Suspect	3	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	75 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	25 sf	Suspect	3	1	1	7	-	1
27	04	Carpet Mastic Under Brown/Tan Carpet	65 sf	Suspect	2	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	30 lf	Suspect	2	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	115 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	65 sf	Suspect	2	1	1	7	-	1
28	03	Composition Floor Tile 12” Yellow/Brown/Tan	275 sf	Suspect	1	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	75 lf	Suspect	1	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	750 sf	Suspect	1	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and gouges	275 sf	Suspect	1	1	1	7	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
29	03	Composition Floor Tile 12” Yellow/Brown/Tan	615 sf	Suspect	2	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	95 lf	Suspect	2	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	1005 lf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	615 sf	Suspect	2	1	1	7	-	1
30	03	Composition Floor Tile 12” Yellow/Brown/Tan	395 sf	Suspect	2	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	75 lf	Suspect	2	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	805 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	395 sf	Suspect	2	1	1	7	-	1
31	03	Composition Floor Tile 12” Yellow/Brown/Tan	1200 sf	Suspect	1	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	135 lf	Suspect	1	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	1540 sf	Suspect	1	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	1200 sf	Suspect	1	1	1	7	-	1
32	03	Composition Floor Tile 12” Yellow/Brown/Tan	615 sf	Suspect	2	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	95 lf	Suspect	2	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	1030 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	615 sf	Suspect	2	1	1	7	-	1
33	06	Carpet Mastic Under Maroon/Blue/Green Carpet	175 sf	Suspect	3	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	50 lf	Suspect	3	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	535 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	175 sf	Suspect	3	1	1	7	-	1
34	06	Carpet Mastic Under Maroon/Blue/Green Carpet	185 sf	Suspect	3	1	1	-	-	1
	10	Vinyl Cove Base 4” Medium Brown	55 lf	Suspect	3	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	585 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Perforations and Fissures	185 sf	Suspect	3	1	1	7	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
35	04	Carpet Mastic Under Brown/Tan Carpet	600 sf	Suspect	1	1	1	-	-	1
	08	Vinyl Cove Base 6” Beige	95 lf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1000 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	600 sf	Suspect	1	1	1	-	-	1
	20	Pipe Insulation Corrugated Paper	25 lf	Suspect	1	1	1	7	-	1
36	04	Carpet Mastic Under Brown/Tan Carpet	600 sf	Suspect	3	1	1	-	-	1
	08	Vinyl Cove Base 6” Beige	95 lf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1000 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	600 sf	Suspect	3	2	2	2	3	2
	20	Pipe Insulation Corrugated Paper	25 lf	Suspect	3	1	1	7	-	1
37	04	Carpet Mastic Under Brown/Tan Carpet	600 sf	Suspect	3	1	1	-	-	1
	08	Vinyl Cove Base 6” Beige	95 lf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1000 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	600 sf	Suspect	3	2	2	2	3	2
	20	Pipe Insulation Corrugated Paper	25 lf	Suspect	3	1	1	7	-	1
38	12	Wall Plaster System Light Textured Finish	1695 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	550 sf	Suspect	1	1	1	-	-	1
39	12	Wall Plaster System Light Textured Finish	3750 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	1370 sf	Suspect	1	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	1370 sf	Suspect	1	1	1	7	-	1
40	04	Carpet Mastic Under Brown/Tan Carpet	80 sf	Suspect	4	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	30 lf	Suspect	4	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	80 sf	Suspect	4	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
41	12	Wall Plaster System Light Textured Finish	115 sf	Suspect	3	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	200 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	75 sf	Suspect	3	1	1	-	1	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	75 sf	Suspect	3	1	1	7	-	1
42	12	Wall Plaster System Light Textured Finish	165 sf	Suspect	4	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	30 sf	Suspect	4	1	1	-	-	1
43	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1140 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	750 sf	Suspect	2	1	1	7	-	1
44	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1140 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	3	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	750 sf	Suspect	3	1	1	7	-	1
45-A	04	Carpet Mastic Under Brown/Tan Carpet	155 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	340 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	155 sf	Suspect	3	1	1	-	-	1
45-B	-	Floor tile 9” gold with red and black	10 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	85 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	10 sf	Suspect	3	1	1	-	-	1
46	14	Wall Drywall System Smooth Finish	235 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	65 sf	Suspect	3	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	65 sf	Suspect	3	1	1	7	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
47	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1140 sf	Suspect	2	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	750 sf	Suspect	2	1	1	7	-	1
48-A	04	Carpet Mastic Under Brown/Tan Carpet	155 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	340 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	155 sf	Suspect	3	1	1	-	-	1
48-B	04	Carpet Mastic Under Brown/Tan Carpet	10 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	85 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	10 sf	Suspect	3	1	1	-	-	1
49	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1140 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	2	2	2	3	2
50	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1140 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	750 sf	Suspect	2	1	1	7	-	1
51	12	Wall Plaster System Light Textured Finish	695 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	195 sf	Suspect	3	1	1	-	-	1
52	12	Wall Plaster System Light Textured Finish	1465 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	665 sf	Suspect	3	1	1	-	-	1
53	05	Carpet Mastic Under Purple Carpet	190 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	465 sf	Suspect	2	1	1	-	-	1
	14	Wall Drywall System Smooth Finish	160 sf	Suspect	2	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	190 sf	Suspect	2	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
54	05	Carpet Mastic Under Purple Carpet	180 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	385 sf	Suspect	2	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	180 sf	Suspect	2	1	1	-	-	1
55	04	Carpet Mastic Under Brown/Tan Carpet	740 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1115 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	740 sf	Suspect	3	1	1	-	-	1
56	04	Carpet Mastic Under Brown/Tan Carpet	10 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	125 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	10 sf	Suspect	3	1	1	-	-	1
57	04	Carpet Mastic Under Brown/Tan Carpet	740 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	115 sf	Suspect	2	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	740 sf	Suspect	2	2	2	2	3	2
58	04	Carpet Mastic Under Brown/Tan Carpet	10 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	125 sf	Suspect	3	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	10 sf	Suspect	3	1	1	-	-	1
59	04	Carpet Mastic Under Brown/Tan Carpet	815 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	805 sf	Suspect	2	2	2	2	3	2
	13	Wall Board Unfinished Wall System	345 sf	Suspect	2	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	815 sf	Suspect	2	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	815 sf	Suspect	2	1	1	7	-	1
60-A	12	Wall Plaster System Light Textured Finish	4455 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	2080 sf	Suspect	1	2	2	2	3	2
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	2080 sf	Suspect	1	1	1	7	-	1
60-B	12	Wall Plaster System Light Textured Finish	130 sf	Suspect	4	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
61	04	Carpet Mastic Under Brown/Tan Carpet	815 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	745 sf	Suspect	2	1	1	-	-	1
	13	Wall Board Unfinished Wall System	345 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	815 sf	Suspect	2	1	1	-	-	1
	18	Suspended Panel Ceiling 2x4 Fissures and Perforations	815 sf	Suspect	2	1	1	7	-	1
62	12	Wall Plaster System Light Textured Finish	1135 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	550 sf	Suspect	1	1	1	-	-	1
63	04	Carpet Mastic Under Brown/Tan Carpet	600 sf	Suspect	2	1	1	-	-	1
	08	Vinyl Cove Base 6” Beige	95 lf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	925 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	600 sf	Suspect	2	2	2	2	2	2
64	04	Carpet Mastic Under Brown/Tan Carpet	600 sf	Suspect	2	1	1	-	-	1
	08	Vinyl Cove Base 6” Beige	95 lf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	925 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	600 sf	Suspect	2	2	2	2	3	2
65	04	Carpet Mastic Under Brown/Tan Carpet	600 sf	Suspect	2	1	1	-	-	1
	08	Vinyl Cove Base 6” Beige	95 lf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	925 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	600 sf	Suspect	2	2	2	2	3	2
66	02	Composition Floor Tile 9” Golden Yellow w/ Brown	195 sf	Suspect	1	1	1	-	-	1
	09	Vinyl Cove Base 6” Medium Brown	55 lf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	630 sf	Suspect	1	1	1	-	-	1
	16	Ceiling Plaster System Light Textured Finish	195 sf	Suspect	1	1	1	-	-	1
67	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1055 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
68	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1055 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1
69	04	Carpet Mastic Under Brown/Tan Carpet	165 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	365 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	165 sf	Suspect	3	1	1	-	-	1
70	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1055 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	2	2	2	3	2
71	04	Carpet Mastic Under Brown/Tan Carpet	165 sf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	365 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	165 sf	Suspect	1	1	1	-	-	1
72	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1055 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1
73	04	Carpet Mastic Under Brown/Tan Carpet	750 sf	Suspect	2	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	1055 sf	Suspect	2	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	750 sf	Suspect	2	1	1	-	-	1
74	01	Composition Floor Tile 12” Tan Mottle	195 sf	Suspect	1	1	1	-	-	1
	09	Vinyl Cove Base 6” Medium Brown	55 lf	Suspect	1	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	630 sf	Suspect	1	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	195 sf	Suspect	1	1	1	-	-	1
75	04	Carpet Mastic Under Brown/Tan Carpet	370 sf	Suspect	3	1	1	-	-	1
	12	Wall Plaster System Light Textured Finish	790 sf	Suspect	3	2	2	2	3	2
	16	Ceiling Plaster System Light Textured Finish	370 sf	Suspect	3	1	1	-	-	1

Section D – Ravenna High School Athletic Complex

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: Athletic Complex
6589 N Chestnut St.
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

Ravenna High School Athletic Complex

No damaged observed

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section D – Ravenna High School Athletic Complex

Part 2 – Photographs

Part 2 – Photographs	
Facility:	Athletic Complex – 6589 North Chestnut Street, Ravenna, Ohio 44266

No photos collected during the three-year reinspection.

Section D – Ravenna High School Athletic Complex

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Athletic Complex – 6589 North Chestnut Street, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
01	03	Wall Drywall Board Unfinished	90 sf	Suspect	2	1	1	-	-	1
	05	Wall Drywall Board Stucco Finish	90 sf	Suspect	2	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	325 sf	Suspect	2	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	2	1	1	-	-	1
02	02	Vinyl Cove Base 4” Gray	15 lf	Suspect	2	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	115 sf	Suspect	2	1	1	-	-	1
	09	Suspended Panel Ceiling 2’x4’ Light Texture	30 sf	Suspect	2	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	2	1	1	-	-	1
03	02	Vinyl Cove Base 4” Gray	55 lf	Suspect	1	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	240 sf	Suspect	1	1	1	-	-	1
	09	Suspended Panel Ceiling 2’x4’ Light Texture	245 sf	Suspect	1	1	1	7	-	1
04	02	Vinyl Cove Base 4” Gray	35 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	145 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2’x4’ Light Texture	40 sf	Suspect	3	1	1	7	-	1
05	02	Vinyl Cove Base 4” Gray	20 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	245 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2’x4’ Light Texture	35 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
06	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	45 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	20 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
07	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	95 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	20 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
08	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	85 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	15 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
09	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	4	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	105 sf	Suspect	4	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	25 sf	Suspect	4	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	4	1	1	-	-	1
10	02	Vinyl Cove Base 4" Gray	30 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	115 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	60 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
11	02	Vinyl Cove Base 4" Gray	80 lf	Suspect	2	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	365 sf	Suspect	2	1	1	-	-	1
	05	Wall Drywall Board Stucco Finish	135 sf	Suspect	2	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
12	02	Vinyl Cove Base 4" Gray	35 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	145 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	105 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
13	02	Vinyl Cove Base 4" Gray	30 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	185 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	70 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
14	02	Vinyl Cove Base 4" Gray	30 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	185 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	70 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
15	02	Vinyl Cove Base 4" Gray	30 lf	Suspect	4	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	190 sf	Suspect	4	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	75 sf	Suspect	4	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	4	1	1	-	-	1
16	02	Vinyl Cove Base 4" Gray	50 lf	Suspect	2	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	195 sf	Suspect	2	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	165 sf	Suspect	2	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	2	1	1	-	-	1
17	02	Vinyl Cove Base 4" Gray	55 lf	Suspect	1	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	240 sf	Suspect	1	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	245 sf	Suspect	1	1	1	7	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
18	02	Vinyl Cove Base 4" Gray	30 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	115 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	60 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
19	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	105 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	25 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
20	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	85 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	15 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
21	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	95 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	20 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
22	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	45 sf	Suspect	3	1	1	-	-	1
	08	Ceiling Drywall System Smooth Finish	20 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
23	02	Vinyl Cove Base 4" Gray	20 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	245 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	35 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
24	02	Vinyl Cove Base 4" Gray	35 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	145 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	40 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
25	02	Vinyl Cove Base 4" Gray	15 lf	Suspect	2	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	115 sf	Suspect	2	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	30 sf	Suspect	2	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	2	1	1	-	-	1
26	05	Wall Drywall Board Stucco Finish	90 sf	Suspect	2	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	2	1	1	-	-	1
27	03	Wall Drywall Board Unfinished	45 sf	Suspect	2	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	205 sf	Suspect	2	1	1	-	-	1
28	03	Wall Drywall Board Unfinished	90 sf	Suspect	2	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	115 sf	Suspect	2	1	1	-	-	1
29	03	Wall Drywall Board Unfinished	35 sf	Suspect	2	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	170 sf	Suspect	2	1	1	-	-	1
30	03	Wall Drywall Board Unfinished	70 sf	Suspect	2	1	1	-	-	1
	05	Wall Drywall Board Stucco Finish	90 sf	Suspect	2	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	65 sf	Suspect	2	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	2	1	1	-	-	1
31	11	Fire Door Assembly	1 door	Suspect	4	1	1	-	-	1
32	11	Fire Door Assembly	1 door	Suspect	4	1	1	-	-	1
33	05	Wall Drywall Board Stucco Finish	95 sf	Suspect	3	1	1	-	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
34	01	Carpet Mastic Under Blue Carpet	110 sf	Suspect	3	1	1	-	-	1
	02	Vinyl Cove Base 4" Gray	30 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	180 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	110 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
35	01	Carpet Mastic Under Blue Carpet	110 sf	Suspect	3	1	1	-	-	1
	02	Vinyl Cove Base 4" Gray	40 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	150 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	110 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
36	02	Vinyl Cove Base 4" Gray	70 lf	Suspect	3	1	1	-	-	1
	04	Wall Drywall System Smooth Finish	240 sf	Suspect	3	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	55 sf	Suspect	3	1	1	-	-	1
	09	Suspended Panel Ceiling 2'x4' Light Texture	55 sf	Suspect	3	1	1	7	-	1
	11	Fire Door Assembly	1 door	Suspect	3	1	1	-	-	1
37	06	Wall Board Unfinished	130 sf	Suspect	1	1	1	-	-	1
39	06	Wall Board Unfinished	130 sf	Suspect	3	1	1	-	-	1
41	06	Wall Board Unfinished	130 sf	Suspect	1	1	1	-	-	1
42	06	Wall Board Unfinished	130 sf	Suspect	1	1	1	-	-	1
45	06	Wall Board Unfinished	130 sf	Suspect	3	1	1	-	-	1
46	06	Wall Board Unfinished	130 sf	Suspect	1	1	1	-	-	1
47	03	Wall Drywall Board Unfinished	100 sf	Suspect	2	1	1	-	-	1
	07	Ceiling Gypsum Board Unfinished	290 sf	Suspect	2	1	1	-	-	1
48	10	Suspended Panel Ceiling 2'x4' Random Perforations	60 sf	Suspect	3	1	1	7	-	1
49	10	Suspended Panel Ceiling 2'x4' Random Perforations	45 sf	Suspect	4	1	1	7	-	1
50	07	Ceiling Drywall Board Unfinished	25 sf	Suspect	3	1	1	-	-	1

Space ID	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
51	10	Suspended Panel Ceiling 2'x4' Random Perforations	55 sf	Suspect	3	1	1	7	-	1

Section E – Transportation Office and Garage

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: Transportation Office
703 Oakwood St.
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

Ravenna Transportation Office and Garage

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section E – Transportation Office and Garage

Part 2 – Photographs

Part 2 – Photographs	
Facility:	Transportation Building – 703 Oakwood Street, Ravenna, Ohio 44266

Photo 01:

Location:
01 – Main entrance

Material:
Floor tile
12”x12” beige with gray and white

Observation:
Physical damage to isolated area near exterior door.

Photo 02:

Location:
04 – Driver lounge

Material:
Floor tiles

12” beige with gray and white
12” medium gray mottle

Observation:
Physical damage to isolated area near exterior door and window.

Section E – Transportation Office and Garage

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Transportation Building – 703 Oakwood Street, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
01	01	Composition Floor Tile 12” Beige with Gray and White	40 sf	Suspect	3	2	3	4	1	5
	05	Wall Drywall System	150 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	40 sf	Suspect	3	1	1	7	-	1
02	01	Composition Floor Tile 12” Beige with Gray and White	120 sf	Suspect	3	1	1	-	-	1
	02	Carpet Mastic Under Multi-Color Carpet	85 sf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	470 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	205 sf	Suspect	3	1	1	7	-	1
03	01	Composition Floor Tile 12” Beige with Gray and White	35 sf	Suspect	3	1	1	-	-	1
	02	Carpet Mastic Under Multi-Color Carpet	90 sf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	300 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	125 sf	Suspect	3	1	1	7	-	1
04	01	Composition Floor Tile 12” Beige with Gray and White	655 sf	Suspect	3	2	3	4	1	5
	-	Floor tile – 12” medium gray mottle	100 sf	Suspect	3	2	3	4	1	5
	03	Vinyl Cove Base 4” Gray	280 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	2260 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	755 sf	Suspect	3	1	1	7	-	1
05	01	Composition Floor Tile 12” Beige with Gray and White	110 sf	Suspect	3	1	1	-	-	1
	04	Vinyl Cove Base 6” Gray/Brown	45 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	330 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	110 sf	Suspect	3	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
06	01	Composition Floor Tile 12” Beige with Gray and White	55 sf	Suspect	3	1	1	-	-	1
	04	Vinyl Cove Base 6” Gray/Brown	30 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	240 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	55 sf	Suspect	3	1	1	7	-	1
07	01	Composition Floor Tile 12” Beige with Gray and White	220 sf	Suspect	3	1	1	-	-	1
	03	Vinyl Cove Base 4” Gray	55 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	285 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	220 sf	Suspect	3	1	1	7	-	1
08	01	Composition Floor Tile 12” Beige with Gray and White	15 sf	Suspect	3	1	1	-	-	1
	03	Vinyl Cove Base 4” Gray	10 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	95 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	15 sf	Suspect	3	1	1	7	-	1
09	01	Composition Floor Tile 12” Beige with Gray and White	145 sf	Suspect	3	1	1	-	-	1
	03	Vinyl Cove Base 4” Gray	50 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	390 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	145 sf	Suspect	3	1	1	7	-	1
11	07	Loose Insulation White, Fluffy	2000 sf	Suspect	3	1	3	6	-	1
13	03	Vinyl Cove Base 4” Gray	110 lf	Suspect	3	1	1	-	-	1
	05	Wall Drywall System	1100 sf	Suspect	3	1	1	-	-	1
	06	Suspended Panel Ceiling 2’x4’ White	110 lf	Suspect	3	1	1	7	-	1
	09	Fire Doors 1.5 Hour Fire Rating	2	Suspect	3	1	1	-	-	1
14	05	Wall Drywall System	2450 sf	Suspect	3	1	1	-	-	1
	08	Sprayed-On Fireproofing White, Fluffy	2575 sf	Suspect	3	1	2	5	-	1

Section F – Tappan Building

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: Tappan Elementary
310 Bennet Avenue
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Drawing Type: Floor Plan

Project Location: Tappan Elementary
310 Bennet Avenue
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section F – Tappan Building

Part 2 – Photographs

Part 2 – Photographs	
Facility:	Tappan Elementary – 310 Bennet Avenue, Ravenna, Ohio 44266

Photo 01:

Location:
Space 07A – Stage

Material:
43 – Roof drainpipe fitting insulation
Cementitious material with jacket

Observation:
Damage to the jacket enclosure.
Exposed friable insulation observed.

Photo 02:

Location:
Space 07A – Stage

Material:
43 – Roof drainpipe fitting insulation
Cementitious material with jacket

Observation:
Insulation debris observed on floor around pipe.

Section F – Tappan Building

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Tappan Elementary School – 310 Bennet Avenue, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
Crawl Space	39	Pipe Insulation – Heating System Corrugated Paper	Debris Throughout	ACBM[1]	5	3	3	1	1	5
	40	Pipe Joint Insulation – Heating Cementitious Material	Debris Throughout	ACBM[1]	5	3	3	1	1	5
01	47	Fire Door Assembly	1 door	Suspect	4	1	1	-	-	1
04-A	01	Composition Floor Tile 12” Cream w/ White/Brown	265 sf	Suspect	3	1	1	-	-	1
	28	Vinyl Cove Base 4” Beige	80 lf	Suspect	3	1	1	-	-	1
	39	Pipe Insulation – Heating System Corrugated Paper	26 lf	ACBM[1]	3	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	8 joints	ACBM[1]	3	1	1	7	-	1
04-C	39	Pipe Insulation – Heating System Corrugated Paper	14 lf	ACBM[1]	5	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	2 joints	ACBM[1]	5	1	1	7	-	1
	46	Duct Flex Connector Beige Cloth on Round Duct	1 sf	Suspect	5	1	1	7	-	1
05-A	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2’x4’ Random Perf/Fissures	1530 sf	Suspect	2	1	1	7	-	1
	35	Ceiling Tile 1’x1’ Random Drill Holes	1530 sf	Suspect	2	1	1	7	-	1
05-B	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
05-C	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
05-D	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2'x4' Random Perf/Fissures	50 sf	Suspect	2	1	1	7	-	1
	35	Ceiling Tile 1'x1' Random Drill Holes	50 sf	Suspect	2	1	1	7	-	1
06	17	Sheet Flooring Tan/Brown Marble	120 sf	Suspect	3	1	1	-	-	1
	32	Hard Plaster Ceiling – Smooth	-	Non-ACBM[3]	-	-	-	-	-	-
07-A	40	Pipe Joint Insulation – Heating Cementitious Material	2 joints	ACBM[1]	2	1	1	7	-	1
	41	Roof Sump Insulation Cementitious Material	2 sumps	Suspect	2	1	1	-	-	1
	42	Roof Drainpipe Insulation Corrugated Paper	35 lf	Suspect	2	1	1	7	-	1
	43	Roof Drainpipe Joint Insulation Cementitious Material	9 joints	Suspect	2	2	3	1	1	2
07-B	05	Composition Floor Tile 9" Dark Red w/ White	10 sf	Suspect	2	1	1	-	-	1
	06	Composition Floor Tile 0" White w/ Brown/Gray	10 sf	Suspect	2	1	1	-	-	1
	14	Sheet Flooring Cream/Rust Marble	15 sf	Suspect	2	1	1	-	-	1
	16	Sheet Flooring Red/Black Marble	15 sf	Suspect	2	1	1	-	-	1
08	40	Pipe Joint Insulation – Heating Cementitious Material	4 joints	ACBM[1]	5	1	1	7	-	1
	44	Duct Flex Connector Beige Cloth on Square Duct	3 sf	Suspect	5	1	1	7	-	1
	45	Duct Flex Connector Brown Cloth on Square Duct	4 sf	Suspect	5	1	1	7	-	1
09	40	Pipe Joint Insulation – Heating Cementitious Material	3 joints	ACBM[1]	5	1	1	7	-	1
	44	Duct Flex Connector Beige Cloth on Square Duct	3 sf	Suspect	5	1	1	7	-	1
	45	Duct Flex Connector Brown Cloth on Square Duct	4 sf	Suspect	5	1	1	7	-	1
13	32	Ceiling Plaster System Smooth Finish	215 sf	Suspect	2	1	1	-	-	1
	33	Suspended Panel Ceiling 2'x4' Random Perf/Fissures	215 sf	Suspect	2	1	1	7	-	1
	35	Ceiling Tile 1'x1' Random Drill Holes	215 sf	Suspect	2	1	1	7	-	1
14-A	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	39	Pipe Insulation – Heating System Corrugated Paper	20 lf	ACBM[1]	4	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
15	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2'x4' Random Perf/Fissures	215 sf	Suspect	2	1	1	7	-	1
	35	Ceiling Tile 1'x1' Random Drill Holes	215 sf	Suspect	2	1	1	7	-	1
16	01	Composition Floor Tile 12" Cream w/ White/Brown	15 sf	Suspect	2	1	1	-	-	1
	12	Sheet Flooring Dark Green Marble	430 sf	Suspect	2	1	1	-	-	1
	14	Sheet Flooring Cream/Rust Marble	100 sf	Suspect	2	1	1	-	-	1
	15	Sheet Flooring Red	10 sf	Suspect	2	1	1	-	-	1
	24	Carpet Mastic Under Blue/Gray Carpet	100 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	655 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Painted Cream	-	Non-ACBM[2]	-	-	-	-	-	-
	39	Pipe Insulation – Heating System Corrugated Paper	13 lf	ACBM[1]	2	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	2 joints	ACBM[1]	2	1	1	-	-	1
17	02	Composition Floor Tile 9" Green w/ White	20 sf	Suspect	2	1	1	-	-	1
	04	Composition Floor Tile 9" Green w/ Black/White	4 sf	Suspect	2	1	1	-	-	1
	10	Sheet Flooring Multi-Color Design	25 sf	Suspect	2	1	1	-	-	1
	11	Sheet Flooring Peach/Green/Black Marble	915 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	970 sf	Suspect	2	2	2	4	-	1
	36	Sheeting on Bookcase Counter Painted Cream	-	Non-ACBM[2]	-	-	-	-	-	-
	39	Pipe Insulation – Heating System Corrugated Paper	26 lf	ACBM[1]	2	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	4 joints	ACBM[1]	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
18	08	Sheet Flooring Peach/Green/Black Marble	30 sf	Suspect	3	1	1	-	-	1
	12	Sheet Flooring Dark Green Marble	25 sf	Suspect	3	1	1	-	-	1
	13	Sheet Flooring Yellow	2 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	39	Pipe Insulation – Heating System Corrugated Paper	23 lf	ACBM[1]	3	1	1	7	-	1
19	12	Sheet Flooring Dark Green Marble	90 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
20-A	03	Composition Floor Tile 9” White w/ Dark Gray	60 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
20-B	39	Pipe Insulation – Heating System Corrugated Paper	Not Known	ACBM[1]	5	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	Not Known	ACBM[1]	5	1	1	7	-	1
21	01	Composition Floor Tile 12” Cream w/ White/Brown	785 sf	Suspect	2	1	1	-	-	1
	27	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1’x1’ Pattern Drill Holes	785 sf	Suspect	2	2	2	4	-	1
	36	Sheeting on Bookcase Counter Painted Cream	-	Non-ACBM[2]	-	-	-	-	-	-
	39	Pipe Insulation – Heating System Corrugated Paper	20 lf	ACBM[1]	2	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	2 joints	ACBM[1]	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
22	08	Sheet Flooring Peach /Green/Black Marble	12 sf	Suspect	2	1	1	-	-	1
	23	Carpet Mastic Under Gray/Pink Blue Carpet	770 sf	Suspect	2	1	1	-	-	1
	26	Vinyl Cove Base 6" Medium Gray	110 lf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	780 sf	Suspect	2	2	2	4	-	1
	36	Sheeting on Bookcase Counter Painted Cream	-	Non-ACBM[2]	-	-	-	-	-	-
	39	Pipe Insulation – Heating System Corrugated Paper	30 lf	ACBM[1]	2	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	1 joint	Positive	2	1	1	7	-	1
23	08	Sheet Flooring Peach/Green/Black Marble	200 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	200 sf	Suspect	3	1	1	7	-	1
	39	Pipe Insulation – Heating System Corrugated Paper	20 lf	ACBM[1]	3	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	1 joint	ACBM[1]	3	1	1	7	-	1
24	09	Sheet Flooring Painted Cream	25 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
25	21	Carpet Mastic Under Gray/Blue/Cream Carpet	100 sf	Suspect	3	1	1	-	-	1
	25	Vinyl Cove Base 4" Medium Gray	35 lf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	100 sf	Suspect	3	2	2	4	-	1
	39	Pipe Insulation – Heating System Corrugated Paper	4 lf	ACBM[1]	3	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	1 joint	ACBM[1]	3	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
26	21	Carpet Mastic Under Gray/Blue/Cream Carpet	185 sf	Suspect	3	1	1	-	-	1
	25	Vinyl Cove Base 4" Medium Gray	40 lf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	185 sf	Suspect	3	1	1	7	-	1
27	22	Carpet Mastic Under Cream/Blue/Pink Carpet	295 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
29	03	Composition Floor Tile 9" White w/ Dark Gray	6 sf	Suspect	2	1	1	-	-	1
	06	Composition Floor Tile 9" White w/ Brown/Gray	735 sf	Suspect	2	1	1	-	-	1
	28	Vinyl Cove Base 4" Beige	25 lf	Suspect	2	1	1	-	-	1
	29	Vinyl Cove Base 4" Light Gray	10 lf	Suspect	2	1	1	-	-	1
	31	Acoustical Wall Tiles 1'x1' Random Fissures	70 sf	Suspect	2	1	1	7	-	1
30	07	Composition Floor Tile 9" White w/ Green/Gray	740 sf	Suspect	2	1	1	-	-	1
	28	Vinyl Cove Base 4" Beige	25 lf	Suspect	2	1	1	-	-	1
	29	Vinyl Cove Base 4" Light Gray	10 lf	Suspect	2	1	1	-	-	1
	31	Acoustical Wall Tiles 1'x1' Random Fissures	70 sf	Suspect	2	1	1	7	-	1
31	03	Composition Floor Tile 9" White w/ Dark Gray	6 sf	Suspect	2	1	1	-	-	1
	07	Composition Floor Tile 9" White w/ Green/Gray	735 sf	Suspect	2	1	1	-	-	1
	28	Vinyl Cove Base 4" Beige	25 lf	Suspect	2	1	1	-	-	1
	29	Vinyl Cove Base 4" Light Gray	10 lf	Suspect	2	1	1	-	-	1
	31	Acoustical Wall Tiles 1'x1' Random Fissures	70 sf	Suspect	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
32	03	Composition Floor Tile 9” White w/ Dark Gray	6 sf	Suspect	2	1	1	-	-	1
	06	Composition Floor Tile 9” White w/ with Brown/Gray	735 sf	Suspect	2	1	1	-	-	1
	28	Vinyl Cove Base 4” Beige	25 lf	Suspect	2	1	1	-	-	1
	29	Vinyl Cove Base 4” Light Gray	10 lf	Suspect	2	1	1	-	-	1
	31	Acoustical Wall Tiles 1’x1’ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
33-A	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2’x4’ Random Perf/Fissures	875 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1’x1’ Pattern Drill Holes	875 sf	Suspect	2	1	1	7	-	1
33-B	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1’x1’ Pattern Drill Holes	310 sf	Suspect	2	1	1	7	-	1
33-C	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1’x1’ Pattern Drill Holes	180 sf	Suspect	2	1	1	7	-	1
34	18	Sheet Flooring Green/Cream/Brown Marble	170 sf	Suspect	2	1	1	-	-	1
	19	Sheet Flooring Dark Gray Marble	80 sf	Suspect	2	1	1	-	-	1
	26	Vinyl Cove Base 6” Black	75 lf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2’x4’ Random Perf/Fissures	255 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1’x1’ Pattern Drill Holes	255 sf	Suspect	2	1	1	7	-	1
35	35	Ceiling Tile 1’x1’ Random Drill Holes	85 sf	Suspect	3	2	2	4	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
36	18	Sheet Flooring Green/Cream/Brown Marble	565 sf	Suspect	2	1	1	-	-	1
	20	Sheet Flooring Light Rose/Cream Marble	215 sf	Suspect	2	1	1	-	-	1
	26	Vinyl Cove Base 6" Black	120 lf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	35	Ceiling Tile 1'x1' Random Drill Holes	810 sf	Suspect	2	1	1	7	-	1
37	12	Sheet Flooring Dark Green Marble	665 sf	Suspect	2	1	1	-	-	1
	14	Sheet Flooring Cream/Rust Marble	110 sf	Suspect	2	1	1	-	-	1
	15	Sheet Flooring Red	5 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	38	Sheeting on Bookcase Counter Brown	25 sf	Non-ACBM[2]	-	-	-	-	-	-
38	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2'x4' Random Perf/Fissures	265 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1'x1' Pattern Drill Holes	265 sf	Suspect	2	1	1	7	-	1
39-A	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	46	Duct Flex Connector Beige Cloth on Round Duct	1 sf	Suspect	4	1	1	7	-	1
39-B	39	Pipe Insulation – Heating System Corrugated Paper	30 sf	ACBM[1]	5	1	1	7	-	1
	40	Pipe Joint Insulation – Heating Cementitious Material	1 joint	ACBM[1]	5	1	1	7	-	1
40	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	33	Suspended Panel Ceiling 2'x4' Random Perf/Fissures	225 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1'x1' Pattern Drill Holes	225 sf	Suspect	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
41	12	Sheet Flooring Dark Green Marble	110 sf	Suspect	2	1	1	-	-	1
	15	Sheet Flooring Red	10 sf	Suspect	2	1	1	-	-	1
	17	Sheet Flooring Tan Brown Marble	655 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	775 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Counter Painted Cream	25 sf	Non-ACBM[2]	-	-	-	-	-	-
42	17	Sheet Flooring Tan/Brown Marble	20 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
43	12	Sheet Flooring Dark Green Marble	105 sf	Suspect	3	1	1	-	-	1
	13	Sheet Flooring Solid Yellow	5 sf	Suspect	3	1	1	-	-	1
	17	Sheet Flooring Tan/Brown Marble	70 sf	Suspect	3	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
44	08	Sheet Flooring Peach/Green/Black Marble	115 sf	Suspect	2	1	1	-	-	1
	12	Sheet Flooring Dark Green Marble	720 sf	Suspect	2	1	1	-	-	1
	15	Sheet Flooring Red	10 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	845 sf	Suspect	2	1	1	7	-	1
	37	Sheeting on Bookcase Counter Green	-	Non-ACBM[2]	-	-	-	-	-	-

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
45	03	Composition Floor Tile 9" White w/ Dark Gray	5 sf	Suspect	2	1	1	-	-	1
	08	Sheet Flooring Peach/Green/Black Marble	575 sf	Suspect	2	1	1	-	-	1
	14	Sheet Flooring Cream/Rust Marble	105 sf	Suspect	2	1	1	-	-	1
	15	Sheet Flooring Red	10 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	700 sf	Suspect	2	1	1	7	-	1
	38	Sheeting on Bookcase Counter Brown	-	Non-ACBM[2]	-	-	-	-	-	-
46	08	Sheet Flooring Peach/Green/Black Marble	110 sf	Suspect	2	2	2	-	-	1
	14	Sheet Flooring Cream/Rust Marble	665 sf	Suspect	2	1	1	-	-	1
	15	Sheet Flooring Red	10 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	785 sf	Suspect	2	1	1	7	-	1
47	08	Sheet Flooring Peach/Green/Black	650 sf	Suspect	2	2	2	-	-	1
	15	Sheet Flooring Red	10 sf	Suspect	2	1	1	-	-	1
	16	Sheet Flooring Red/Black Marble	110 sf	Suspect	2	1	1	-	-	1
	30	Wall Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	32	Ceiling Plaster System Smooth Finish	-	Non-ACBM[3]	-	-	-	-	-	-
	34	Ceiling Tile 1'x1' Pattern Drill Holes	770 sf	Suspect	2	1	1	7	-	1

References:

1 – As indicated in the original Asbestos Management Plan
2 – Limited Asbestos Survey Report – Countertop Sheet Products issued August 23, 2012 by RJRL
3 – Limited Asbestos Survey Report – Hard Plaster Systems issued June 18, 2018 by Freeman Environmental

Section G – West Main Elementary School

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: West Main Elementary
639 W Main St.
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

West Main Elementary School

First Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Drawing Type: Floor Plan

Project Location: West Main Elementary
639 W Main St.
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

West Main Elementary School

Second Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section G – West Main Elementary School

Part 2 – Photographs

Part 2 – Photographs

Facility:	West Main Elementary – 639 West Main Street, Ravenna, Ohio 44266

Photo 01:

Location:
Courtyard entrance outside space 39

Material:
Hard plaster canopy

Observation:
Cracking and delamination

Photo 02:

Location:
Courtyard entrance outside space 39

Material:
Hard plaster canopy

Observation:
Debris on concrete pavement below canopy

Photo 03:

Location:
Space 54 – Classroom

Material:
Ceiling tile – 1'x1' with random drill holes

Observation:
Physical damage

Section G – West Main Elementary School

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	West Main Elementary – 639 West Main Street, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
01	45	Fire Door Assembly Boiler Room	1 door	Suspect	4	1	1	-	-	1
03-A	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	1760 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	1760 sf	Suspect	1	1	1	7	-	1
03-B	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	145 sf	Suspect	1	1	1	7	-	1
03-C	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	85 sf	Suspect	1	2	2	7	-	1
03-D	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	50 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	50 sf	Suspect	1	1	1	7	-	1
03-E	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	50 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	50 sf	Suspect	1	1	1	7	-	1
03-F	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	55 sf	Suspect	1	1	1	7	-	1
04	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	30 sf	Suspect	1	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
05	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	180 sf	Suspect	1	1	1	7	-	1
06-A	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	37	Pipe Insulation Corrugated Paper on Heating	19 lf	ACBM[1]	4	1	1	7	-	1
06-B	37	Pipe Insulation Corrugated Paper on Heating	37 lf	ACBM[1]	5	1	1	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	6 joints	ACBM[1]	5	1	1	-	-	1
07	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	30 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	30 sf	Suspect	1	1	1	7	-	1
08	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	32	Suspended Panel Ceiling 2'x2' Texture with Pinholes	180 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	180 sf	Suspect	1	1	1	7	-	1
09	14	Carpet Mastic Under Brown/Peach/Blue	490 sf	Suspect	3	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	80 lf	Suspect	3	1	1	-	-	1
	26	Wall Drywall System Smooth Finish	700 sf	Suspect	3	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	450 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	490 sf	Suspect	3	2	2	7	-	1
	44	Fire Door Assembly Wood	1 door	Suspect	3	1	1	-	-	1
10	14	Carpet Mastic Under Brown/Peach/Blue	310 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	60 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Wall Drywall System Smooth Finish	210 sf	Suspect	2	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	290 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	310 sf	Suspect	2	2	2	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
11	14	Carpet Mastic Under Brown/Peach/Blue	75 sf	Suspect	3	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	30 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	75 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	75 sf	Suspect	3	1	1	7	-	1
12	03	Sheet Flooring White/Beige/Blue/Rose	60 sf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Drywall wall system	100 sf	Suspect	3	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
13-A	03	Sheet Flooring White/Beige/Blue/Rose	135 sf	Suspect	2	1	1	-	-	1
	14	Carpet Mastic Under Brown/Peach/Blue	410 sf	Suspect	2	1	1	-	-	1
	20	Vinyl Cove Base 4" Light Tan	65 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Wall Drywall System Smooth Finish	210 sf	Suspect	2	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	535 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	545 sf	Suspect	2	2	2	7	-	1
	37	Pipe Insulation Corrugated Paper on Heating	24 lf	ACBM[1]	2	1	1	7	-	1
13-B	01	Composition Floor Tile 12" Cream w/ White/Brown	630 sf	Suspect	2	1	1	-	-	1
	20	Vinyl Cove Base 4" Light Tan	70 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Wall Drywall System Smooth Finish	210 sf	Suspect	2	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	580 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	630 sf	Suspect	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
14	03	Sheet Flooring White/Beige/Blue/Rose	40 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	20 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	31	Suspended Panel Ceiling 2'x4' w/ Fissures/Perforation	40 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	40 sf	Suspect	2	1	1	7	-	1
15	14	Carpet Mastic Under Brown/Peach/Blue	540 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	75 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Wall Drywall System Smooth Finish	210 sf	Suspect	2	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	500 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	540 sf	Suspect	2	2	2	7	-	1
	35/36	Sheeting on Bookcase Painted Cream	10 sf	Suspect	2	1	1	-	-	1
17	03	Sheet Flooring White/Beige/Blue/Rose	140 sf	Suspect	2	1	1	-	-	1
	14	Carpet Mastic Under Brown/Peach/Blue	630 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	65 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	715 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	770 sf	Suspect	2	2	2	7	-	1
	37	Pipe Insulation Corrugated Paper on Heating	21 lf	ACBM[1]	2	1	1	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	1 joint	ACBM[1]	2	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
18	14	Carpet Mastic Under Brown/Peach/Blue	1680 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gary	135 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Wall Drywall System Smooth Finish	105 sf	Suspect	2	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	1455 sf	Suspect	2	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	1570 sf	Suspect	2	2	2	7	-	1
	37	Pipe Insulation Corrugated Paper on Heating	11 lf	ACBM[1]	2	1	1	7	-	1
	44	Fire Door Assembly Interior Wood Panel	2 doors	Suspect	2	1	1	-	-	1
19	14	Carpet Mastic Under Brown/Peach/Blue	50 sf	Suspect	3	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	25 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	26	Wall Drywall System Smooth Finish	105 sf	Suspect	3	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	50 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	50 sf	Suspect	3	1	1	7	-	1
20	03	Sheet floor Pebble design	205 sf	Suspect	3	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	55 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	205 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	205 sf	Suspect	3	1	1	7	-	1
	37	Pipe Insulation Corrugated Paper on Heating	11 lf	ACBM[1]	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
21	03	Sheet Flooring White/Beige/Blue/Rose	25 sf	Suspect	3	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	15 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	25 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	25 sf	Suspect	3	1	1	7	-	1
22	17	Carpet Mastic Under purple Carpet	245 sf	Suspect	3	1	1	-	-	1
	18	Vinyl Cove Base 4" Dark gray	60 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	245 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	245 sf	Suspect	3	1	1	7	-	1
23	01	Composition Floor Tile 12" Cream w/ White/Brown	130 sf	Suspect	3	1	1	-	-	1
	17	Carpet Mastic Under Gray/Brown Carpet	205 sf	Suspect	3	1	1	-	-	1
	18	Vinyl Cove Base 4" Black	65 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	335 sf	Suspect	3	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	335 sf	Suspect	3	1	1	7	-	1
	44	Fire Door Assembly Interior Wood Panel	1 door	Suspect	3	1	1	-	-	1
24	-	No suspect ACBM observed	-	-	-	-	-	-	-	-
25-A	03	Sheet Flooring White/Beige/Blue/Rose	75 sf	Suspect	1	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	35 lf	Suspect	1	1	1	-	-	1
	26	Wall Drywall System Smooth Finish	40 sf	Suspect	1	1	1	-	-	1
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	75 sf	Suspect	1	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
25-B	37	Pipe Insulation Corrugated Paper on Heating	0.5 lf	ACBM[1]	5	1	1	7	-	1
27	14	Carpet Mastic Under Brown/Peach/Blue	95 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	35 lf	Suspect	2	1	1	-	-	1
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	95 sf	Suspect	2	1	1	7	-	1
28	14	Carpet Mastic Under Brown/Peach/Blue	95 sf	Suspect	2	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	35 lf	Suspect	2	1	1	-	-	1
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	95 sf	Suspect	2	1	1	7	-	1
30	01	Floor Tile 12" Cream	130 sf	Suspect	3	1	1	-	-	1
	29	Ceiling plaster system – smooth	-	Non-ACBM[2]	-	-	-	-	-	-
32-B	37	Pipe Insulation Corrugated Paper on Heating	35 lf	ACBM[1]	2	1	1	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	2 joints	ACBM[1]	2	1	1	-	-	1
	39	Roof Sump Insulation Cementitious Material	2 sumps	Suspect	2	1	1	-	-	1
	40	Pipe Insulation – Roof Drain Corrugated Paper	35 lf	Suspect	2	1	1	7	-	1
	41	Pipe Joint Insulation – Roof Cementitious Material	4 joints	Suspect	2	1	1	-	-	1
32-C	37	Pipe Insulation Corrugated Paper on Heating	11 lf	ACBM[1]	5	1	1	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	5 joints	ACBM[1]	5	1	1	-	-	1
	42	Duct Flex Connector Brown Cloth on Square Duct	3 sf	Suspect	5	1	1	7	-	1
	43	Duct Flex Connector Beige Cloth on Square Duct	2 sf	Suspect	5	1	1	7	-	1
32-D	37	Pipe Insulation Corrugated Paper on Heating	5 lf	ACBM[1]	5	1	1	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	4 joints	ACBM[1]	5	1	1	-	-	1
	42	Duct Flex Connector Brown Cloth on Square Duct	3 sf	Suspect	5	1	1	7	-	1
	43	Duct Flex Connector Beige Cloth on Square Duct	2 sf	Suspect	5	1	1	7	-	1
35-B	37	Pipe Insulation Corrugated Paper on Heating	Debris	ACBM[1]	5	3	3	1	1	5
	38	Pipe Joint Insulation Cementitious Material on Heat	Debris	ACBM[1]	5	3	3	1	1	5
36	33	Suspended Panel Ceiling 2'x2' w/ Random Fissures	105 sf	Suspect	1	1	1	7	-	1
37	-	No suspect ACBM observed	-	-	-	-	-	-	-	-
38	33	Suspended Panel Ceiling 2'x2' w/ Random Fissures	105 sf	Suspect	1	1	1	7	-	1
39	33	Suspended Panel Ceiling 2'x2' w/ Random Fissures	1575 sf	Suspect	1	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
40	04	Sheet flooring Olive Marble	775 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
41	04	Sheet flooring Olive Marble	775 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
42	04	Sheet flooring Olive Marble	775 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
43	15	Carpet Mastic Under Tan/Beige/Gray Carpet	775 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
44	15	Carpet Mastic Under Tan/Beige/Gray Carpet	825 sf	Suspect	2	1	1	-	-	1
	21	Vinyl Cove Base 4" Dark Brown	115 lf	Suspect	2	1	1	-	-	1
	26	Wall Drywall System Smooth Finish	80 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
45-A	20	Vinyl Cove Base 4" Light Tan	30 sf	Suspect	2	1	1	-	-	1
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	30 sf	Suspect	2	1	1	7	-	1
45-B	15	Carpet Mastic Under Tan/Beige/Gray Carpet	30 sf	Suspect	3	1	1	-	-	1
	21	Vinyl Cove Base 4" Dark Brown	15 lf	Suspect	3	1	1	-	-	1
	26	Wall Drywall System Smooth Finish	80 sf	Suspect	3	1	1	-	-	1
	31	Suspended Panel Ceiling 2'x4' w/ Fissures/Perforation	30 sf	Suspect	3	1	1	7	-	1
46	15	Carpet Mastic Under Tan/Beige/Gray Carpet	825 sf	Suspect	2	1	1	-	-	1
	26	Wall Drywall System Smooth Finish	80 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
47	15	Carpet Mastic Under Tan/Beige/Gray Carpet	30 sf	Suspect	3	1	1	-	-	1
	19	Vinyl Cove Base 4" Medium Gray	15 lf	Suspect	3	1	1	-	-	1
	26	Wall Drywall System Smooth Finish	80 sf	Suspect	3	1	1	-	-	1
	28	Wall Carpet Mastic Under Brown Carpet	50 sf	Suspect	3	1	1	-	-	1
	26	Drywall ceiling	30 sf	Suspect	3	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
48	33	Suspended Panel Ceiling 2'x2' w/ Random Fissures	30 sf	Suspect	2	1	1	7	-	1
49	15	Carpet Mastic Under Tan/Beige/Gray Carpet	775 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
50	15	Carpet Mastic Under Tan/Beige/Gray Carpet	775 sf	Suspect	2	1	1	-	-	1
	27	Acoustical Wall Tiles 1'x1' w/ Random Fissures	70 sf	Suspect	2	1	1	7	-	1
51-A	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	1225 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	1225 sf	Suspect	1	1	1	7	-	1
51-B	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	195 sf	Suspect	1	1	1	7	-	1
51-C	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	180 sf	Suspect	1	1	1	7	-	1
52	12	Sheet Flooring Olive Green Shades	175 sf	Suspect	1	1	1	-	-	1
	13	Sheet Flooring Gray Shades	75 sf	Suspect	1	1	1	-	-	1
	23	Vinyl Cove Base 6" Dark Brown	70 lf	Suspect	1	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	30	Suspended Panel Ceiling 2x2 w/ Fissures and Reveal	250 sf	Suspect	1	1	1	7	-	1
	34	Ceiling Tile 1x1 w/ Random Drill Holes	250 sf	Suspect	1	1	1	7	-	1
53	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	155 sf	Suspect	3	2	2	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	1 joint	ACBM[1]	3	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
54	01	Composition Floor Tile 12” Cream w/ White/Brown	815 sf	Suspect	2	1	1	-	-	1
	23	Vinyl Cove Base 6” Dark Brown	115 sf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	815 sf	Suspect	2	2	2	4	1	5
55	01	Composition Floor Tile 12” Cream w/ White/Brown	780 sf	Suspect	2	1	1	-	-	1
	23	Vinyl Cove Base 4” taupe	110 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
56	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	30 sf	Suspect	1	1	1	7	-	1
57	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	215 sf	Suspect	1	1	1	7	-	1
58-A	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
58-B	37	Pipe Insulation Corrugated Paper on Heating	Not Known	ACBM[1]	5	1	1	7	-	1
	38	Pipe Joint Insulation Cementitious Material on Heat	Not Known	ACBM[1]	5	1	1	-	-	1
59	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	30 sf	Suspect	1	1	1	7	-	1
60	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	230 sf	Suspect	1	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
61	01	Composition Floor Tile 12" Cream w/ White/Brown	780 sf	Suspect	2	1	1	-	-	1
	20	Vinyl Cove Base 4" Light Tan	110 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Green	25 sf	Suspect	2	1	1	7	-	1
62	06	Sheet Flooring Solid Khaki	10 sf	Suspect	2	1	1	-	-	1
	07	Sheet Flooring Green/Gray Streaks	110 sf	Suspect	2	1	1	-	-	1
	11	Sheet Flooring Gray w/ Pink/Cream/Black	660 sf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Green	25 sf	Suspect	2	1	1	-	-	1
63	08	Sheet Flooring Khaki with Brown Marble	25 sf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
64	02	Composition Floor Tile 12" White w/ Gray Chips	25 sf	Suspect	3	1	1	-	-	1
	18	Vinyl Cove Base 4" Black	15 lf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
65	08	Sheet Flooring Khaki with Brown Marble	95 sf	Suspect	3	1	1	-	-	1
	09	Sheet Flooring Solid Green/Blue	5 sf	Suspect	3	1	1	-	-	1
	10	Sheet Flooring Gray Streaks	45 sf	Suspect	3	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
66	01	Composition Floor Tile 12" Cream w/ White/Brown	780 sf	Suspect	2	1	1	-	-	1
	20	Vinyl Cove Base 4" Light Tan	110 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	35/36	Sheeting on Bookcase Painted Cream	25 sf	Suspect	2	1	1	-	-	1
67	01	Composition Floor Tile 12" Cream w/ White/Brown	780 sf	Suspect	2	1	1	-	-	1
	20	Vinyl Cove Base 4" Light Tan	110 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Green	25 sf	Suspect	2	1	1	7	-	1
68	05	Sheet Flooring Khaki with Green/Red Marble	660 sf	Suspect	2	1	1	-	-	1
	06	Sheet Flooring Solid Khaki	10 sf	Suspect	2	1	1	-	-	1
	07	Sheet Flooring Green/Gray Streaks	110 sf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Green	25 sf	Suspect	2	2	2	4	1	5
69	16	Carpet Mastic Under Brown Carpet	780 sf	Suspect	2	1	1	-	-	1
	22	Vinyl Cove Base 6" Medium Brown/Gray	110 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
70	01	Composition Floor Tile 12" Cream w/ White/Brown	780 sf	Suspect	2	1	1	-	-	1
	20	Vinyl Cove Base 4" Light Tan	110 lf	Suspect	2	1	1	-	-	1
	25	Wall Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	29	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
	34	Ceiling Tile 1x1 w/ Random Drill Holes	780 sf	Suspect	2	1	1	7	-	1
	36	Sheeting on Bookcase Green	25 sf	Suspect	2	1	1	-	-	1
71	17	Carpet Mastic Under Gray/Brown Carpet	45 sf	Suspect	1	1	1	-	-	1
	24	Vinyl Cove Base 4" Beige/Gray	20 lf	Suspect	1	1	1	-	-	1
72	17	Carpet Mastic Under Gray/Brown Carpet	225 sf	Suspect	2	1	1	-	-	1
	24	Vinyl Cove Base 4" Beige/Gray	60 lf	Suspect	2	1	1	-	-	1
73	17	Carpet Mastic Under Gray/Brown Carpet	115 sf	Suspect	2	1	1	-	-	1
	24	Vinyl Cove Base 4" Beige/Gray	40 lf	Suspect	2	1	1	-	-	1
74	17	Carpet Mastic Under Gray/Brown Carpet	225 sf	Suspect	2	1	1	-	-	1
	24	Vinyl Cove Base 4" Beige/Gray	55 lf	Suspect	2	1	1	-	-	1
-	-	Exterior hard plaster canopy	50 sf	Suspect	1	2	2	2	3	2

References:
1 – As indicated in the original Asbestos Management Plan
2 – Limited Asbestos Survey Report – Hard Plaster Systems issued June 18, 2018 by Freeman Environmental

Section H – West Park Elementary School

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: West Main Elementary
1071 Jones Street
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

West Park Elementary School

First Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section H – West Park Elementary School

Part 2 – Photographs

Part 2 – Photographs	
Facility:	West Park Elementary School – 1071 Jones Street, Ravenna, Ohio 44266

Photo 01:
Location:
28 – Classroom restroom
Material:
18 – Hard plaster ceiling system
Observation:
Removed vent cover has exposed friable edges of plaster ceiling

Section H – West Park Elementary School

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	West Park Elementary School – 1071 Jones Street, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
01-B	21	Pipe Insulation Corrugated Paper	Removed	ACBM[1]	-	-	-	-	-	-
	22	Pipe Joint Insulation Cementitious Material – 3" OD	Removed	ACBM[1]	-	-	-	-	-	-
	23	Boiler Breaching 12" OD	Removed	ACBM[1]	-	-	-	-	-	-
	23	Boiler Breaching 16" OD	Removed	ACBM[1]	-	-	-	-	-	-
	23	Distribution Header Insulation 5" OD	Removed	ACBM[1]	-	-	-	-	-	-
02	09	Sheet Flooring Gold/Tan Pebble Inlay	1340 sf	Suspect	1	1	1	-	-	1
	15	Vinyl Cove Base 4" Brown	330 lf	Suspect	1	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	1340 sf	Suspect	1	1	1	7	-	1
03	09	Sheet Flooring Gold/Tan Pebble Inlay	700 sf	Suspect	1	1	1	-	-	1
	13	Vinyl Stair Tread and Riser Light Brown	70 sf	Suspect	1	1	1	-	-	1
	15	Vinyl Cove Base 4" Brown	215 lf	Suspect	1	1	1	-	-	1
	16	Hard plaster wall system	480 sf	Suspect	1	1	1	-	-	1
04	11	Carpet Mastic Under Rust Carpet	865 sf	Suspect	2	1	1	-	-	1
05	04	Composition Floor Tile 9" Light Gray w/ White/Dk Gray	220 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	645 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4" Black	115 lf	Suspect	2	1	1	-	-	1
06	04	Composition Floor Tile 9" Light Gray w/ White/Dk Gray	155 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	710 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4" Black	115 lf	Suspect	2	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
07	03	Composition Floor Tile 9” Beige w/ White/Brown	220 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	645 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
08	02	Composition Floor Tile 9” Cream/Tan Marble	100 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	765 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Brown	115 lf	Suspect	2	1	1	-	-	1
09	01	Composition Floor Tile 9”x9” Light Olive	155 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	710 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Brown	115 lf	Suspect	2	1	1	-	-	1
10	01	Composition Floor Tile 9”x9” Light Olive	155 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	710 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Brown	115 lf	Suspect	2	1	1	-	-	1
11	02	Composition Floor Tile 9” Cream/Tan Marble	685 sf	Suspect	2	1	1	-	-	1
	-	Carpet adhesive	685 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
12	05	Composition Floor Tile 12” tan/gray mottle	175 sf	Suspect	1	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	175 sf	Suspect	1	1	1	-	-	1
13	05	Composition Floor Tile 12” tan/peach mottle	175 sf	Suspect	1	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	175 sf	Suspect	1	1	1	-	-	1
14	22	Pipe Joint Insulation Cementitious Material	4 joints	ACBM[1]	4	1	1	-	-	1
15	02	Composition Floor Tile 9” Cream/Tan Marble	160 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	50 lf	Suspect	3	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	160 sf	Suspect	3	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
16	01	Composition Floor Tile 9”x9” Light Olive	145 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	870 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	125 lf	Suspect	2	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	60 sf	Suspect	2	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	100 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	800 sf	Suspect	2	1	1	7	-	1
17	17	Wall Plaster System Light Texture Finish	60 sf	Suspect	2	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	20 sf	Suspect	2	1	1	-	-	1
18-A	01	Composition Floor Tile 9”x9” Light Olive	190 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	50 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	390 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	190 sf	Suspect	3	1	1	7	-	1
18-B	01	Composition Floor Tile 9”x9” Light Olive	525 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” brown	85 lf	Suspect	2	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	185 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	525 sf	Suspect	2	1	1	7	-	1
19	17	Wall Plaster System Light Texture Finish	105 sf	Suspect	2	1	1	-	-	1
	18	Ceiling plaster system Light texture finish	20 sf	Suspect	2	1	1	-	-	1
20	17	Wall Plaster System Light Texture Finish	105 sf	Suspect	3	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	20 sf	Suspect	3	1	1	-	-	1
21	10	Carpet Mastic Under Blue/Peach/Gray	120 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	35 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	175 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	120 sf	Suspect	3	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
22	10	Carpet Mastic Under Blue/Peach/Gray	155 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	45 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	300 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	155 sf	Suspect	3	1	1	7	-	1
23	10	Carpet Mastic Under Blue/Peach/Gray	155 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	35 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	285 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	155 sf	Suspect	3	1	1	7	-	1
24	10	Carpet Mastic Under Blue/Peach/Gray	110 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	40 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	260 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	110 sf	Suspect	3	1	1	7	-	1
25-A	01	Composition Floor Tile 9”x9” Light Olive	205 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	55 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	440 sf	Suspect	3	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	25 sf	Suspect	3	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	180 sf	Suspect	3	1	1	7	-	1
25-B	01	Composition Floor Tile 9”x9” Light Olive	15 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	10 lf	Suspect	3	1	1	-	-	1
	17	Wall Plaster System Light Texture Finish	80 sf	Suspect	3	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	15 sf	Suspect	3	1	1	-	-	1
26	17	Wall Plaster System Light Texture Finish	70 sf	Suspect	3	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	25 sf	Suspect	3	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
27	02	Composition Floor Tile 9” Cream/Tan Marble	80 sf	Suspect	2	1	1	-	-	1
	12	Carpet Mastic Under Blue Carpet	700 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	125 lf	Suspect	2	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	100 sf	Suspect	2	1	1	-	-	1
	19	Suspended Panel Ceiling 2x4 Fissures/Perforations	800 sf	Suspect	2	1	1	7	-	1
28	17	Wall Plaster System Light Texture Finish	60 sf	Suspect	2	1	1	-	-	1
	18	Ceiling Plaster System Light Texture Finish	20 sf	Suspect	2	2	2	2	1	2
29	06	Composition Floor Tile 12” Orange/Rust Mottle	1065 sf	Suspect	1	1	1	-	-	1
	07	Composition Floor Tile 12” Cream w/ Brown Mottle	3365 sf	Suspect	1	1	1	-	-	1
	08	Composition Floor Tile 12” Medium Brown Mottle	430 sf	Suspect	1	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	270 lf	Suspect	1	1	1	-	-	1
30	22	Pipe Joint Insulation Cementitious Material	10 joints	ACBM[1]	3	1	1	-	-	1
	24	Duct Flex Connector Painted Cream	5 sf	Suspect	3	1	1	7	-	1
31	09	Sheet Flooring Gold/Tan Pebble Inlay	20 sf	Suspect	3	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	15 lf	Suspect	3	1	1	-	-	1
	20	Suspended Panel Ceiling 2x2’ Perforations	20 sf	Suspect	3	1	1	7	-	1
32	22	Pipe Joint Insulation Cementitious Material	2 joints	Positive	4	1	1	-	-	1
33	08	Composition Floor Tile 12” Medium Brown Mottle	270 sf	Suspect	2	1	1	-	-	1
	16	Vinyl Cove Base 6” Light Gray/Beige	40 lf	Suspect	2	1	1	-	-	1
	20	Suspended Panel Ceiling 2x4 Perforations	270 sf	Suspect	2	-	-	7	-	1
34	07	Composition Floor Tile 12” Cream w/ Brown Mottle	235 sf	Suspect	2	1	1	-	-	1
	16	Vinyl Cove Base 6” Light Gray/Beige	30 lf	Suspect	2	1	1	-	-	1
	20	Suspended Panel Ceiling 2x4 Perforations	235 sf	Suspect	2	1	1	7	-	1
35	07	Composition Floor Tile 12” Cream w/ Brown Mottle	150 sf	Suspect	2	1	1	-	-	1
	16	Vinyl Cove Base 6” Light Gray/Beige	45 lf	Suspect	2	1	1	-	-	1
	20	Suspended Panel Ceiling 2x4 Perforations	150 sf	Suspect	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
36	09	Sheet Flooring Gold/Tan Pebble Inlay	350 sf	Suspect	1	1	1	-	-	1
	14	Stair Tread and Riser Medium Brown w/ White	70 sf	Suspect	1	1	1	-	-	1
	16	Hard plaster wall system	240 sf	Suspect	1	1	1	-	-	1
37	01	Composition Floor Tile 9”x9” Light Olive	225 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	640 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
38	02	Composition Floor Tile 9” Cream/Tan Marble	225 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	640 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
39	03	Composition Floor Tile 9” Beige w/ White/Brown	225 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	640 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
40	04	Composition Floor Tile 9” Light Gray w/ White/Dk Gray	225 sf	Suspect	2	1	1	-	-	1
	10	Carpet Mastic Under Blue/Peach/Gray	640 sf	Suspect	2	1	1	-	-	1
	15	Vinyl Cove Base 4” Black	115 lf	Suspect	2	1	1	-	-	1
41	22	Pipe Joint Insulation Cementitious Material	Not Known	ACBM[1]	5	1	1	-	-	1

References:

1 – As indicated in the original Asbestos Management Plan

Section I – Willyard Elementary School

Part 1 – Floor Plans

Drawing Type: Floor Plan

Project Location: Willyard Elementary
680 Summit Road
Ravenna, Ohio 44266

FE Project ID: 2105.01

Date: July 2021

General Notes: Not to scale

This drawing is intended to assist in identifying the space identification numbers and photo locations of the AHERA Three-Year Reinspection.

Legend:

Space identification

Photo location

Willyard Elementary School

First Floor

FREEMAN ENVIRONMENTAL

37000 Center Ridge Road, Unit A
North Ridgeville, Ohio 44039

Section I – Willyard Elementary School

Part 2 – Photographs

Part 2 – Photographs	
Facility:	Willyard Elementary School – 680 Summit Road, Ravenna, Ohio 44266

No photos were collected during this three-year reinspection.

Section I – Willyard Elementary School

Part 3 – ACBM Assessment Form

Part 3 – ACBM Assessment Form	
Facility:	Willyard Elementary School – 680 Summit Road, Ravenna, Ohio 44266

A Access Code	B Condition of Material	C Potential for Disturbance	D Hazard Assessment (AHERA)	E Damage Categories	F Response Action
1. Common 2. Student 3. Staff 4. Maintenance 5. Unoccupied	1. Good 2. Fair 3. Poor	1. Low 2. Moderate 3. High	1. Damaged or significantly damaged TSI 2. Damaged friable surfacing ACBM 3. Significantly damaged friable surfacing ACBM 4. Damaged or significantly damaged misc. ACBM 5. ACBM with potential for damage 6. ACBM with potential for significant damage 7. Any remaining friable ACBM	1. Physical Damage 2. Water Damage 3. Delamination 4. Flaking/Dusting 5. Blistering 6. Vibration 7. Air Erosion	1. O&M 2. Repair 3. Encap 4. Enclose 5. Remove

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
01-A	11	Suspended Panel Ceiling 2x2 Perforations	615 sf	Suspect	1	1	1	7	-	1
01-B	11	Suspended Panel Ceiling 2x2 Perforations	3900 sf	Suspect	1	1	1	7	-	1
02	01	Composition Floor Tile 12" Khaki w/ Brown/White	3525 sf	Suspect	1	1	1	-	-	1
	02	Composition Floor Tile 12" Medium Brown Streaks	75 sf	Suspect	1	1	1	-	-	1
	19	Roof Sump Insulation White Exterior	2 sumps	Suspect	1	1	1	-	-	1
	20	Roof Drain Insulation White Exterior	4 joints	Suspect	1	1	1	-	-	1
03	01	Composition Floor Tile 12" Khaki w/ Brown/White	2055 sf	Suspect	1	1	1	-	-	1
	06	Vinyl Stair Tread Medium Brown/Orange	13 sf	Suspect	1	1	1	-	-	1
	07	Vinyl Stair Riser Dark Brown	5 sf	Suspect	1	1	1	-	-	1
	15	Pipe Joint Insulation White Exterior	40 joints	Suspect	1	1	1	-	-	1
	19	Roof Sump Insulation White Exterior	2 sumps	Suspect	1	1	1	-	-	1
	20	Roof Drain Insulation White Exterior	4 joints	Suspect	1	1	1	-	-	1
	25	Duct Flex Connector White Exterior	10 sf	Suspect	1	1	1	-	-	1
04	14	Pipe Joint Insulation White Exterior	7 joints	Suspect	1	1	1	-	-	1
	19	Roof Sump Insulation White Exterior	1 sump	Suspect	3	1	1	-	-	1
	20	Roof Drain Insulation White Exterior	1 joint	Suspect	3	1	1	-	-	1
05-A	11	Suspended Panel Ceiling 2x2 Perforations	170 sf	Suspect	1	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
05-B	01	Composition Floor Tile 12" Khaki w/ Brown/White	40 sf	Suspect	1	1	1	-	-	1
	06	Vinyl Stair Tread Medium Brown/Orange	16 sf	Suspect	1	1	1	-	-	1
	07	Vinyl Stair Riser Dark Brown	5 sf	Suspect	1	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	40 sf	Suspect	1	1	1	7	-	1
06	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
07	04	Carpet Mastic Under Blue Carpet	260 sf	Suspect	2	1	1	-	-	1
	08	Wall Plaster System Smooth Finish	15 sf	Suspect	2	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
08	10	Ceiling Plaster System Light Textured Finish	85 sf	Suspect	2	1	1	-	-	1
09	08	Wall Plaster System Smooth Finish	15 sf	Suspect	2	1	1	-	-	1
	10	Ceiling Plaster System Light Textured Finish	341 sf	Suspect	2	1	1	-	-	1
10	10	Ceiling Plaster System Light Textured Finish	85 sf	Suspect	2	1	1	-	-	1
11	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
12	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
13	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
14	01	Composition Floor Tile 12" Khaki w/ Brown/White	30 sf	Suspect	3	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
15	01	Composition Floor Tile 12" Khaki w/ Brown/White	30 sf	Suspect	3	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
16	05	Carpet Mastic Under Blue/Pink/Cream Carpet	175 sf	Suspect	2	1	1	-	-	1
	12	Suspended Panel Ceiling 2x2 Perforations and Fissures	175 sf	Suspect	2	1	1	7	-	1
	15	Pipe Joint Insulation White Exterior	3 joints	Suspect	2	1	1	-	-	1
17	11	Suspended Panel Ceiling 2x2 Perforations	260 sf	Suspect	1	1	1	7	-	1
18	15	Pipe Joint Insulation White Exterior	20 joints	Suspect	4	1	1	-	-	1
19	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
20	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
21	15	Pipe Joint Insulation White Exterior	12 joints	Suspect	3	1	1	-	-	1
22-A	11	Suspended Panel Ceiling 2x2 Perforations	25 sf	Suspect	4	1	1	7	-	1
22-B	16	Pipe Joint Insulation White Exterior	9 joints	Suspect	4	1	1	-	-	1
	17	Pipe Joint Insulation Orange Exterior	14 joints	Suspect	4	1	1	-	-	1
	18	Pipe Joint Insulation Blue Exterior	11 joints	Suspect	4	1	1	-	-	1
	21	Boiler Breaching Insulation Blue Exterior	225 lf	ACBM[1]	4	1	1	-	-	1
	22	Boiler Breaching Joint Insulation Blue Exterior	14 joints	ACBM[1]	4	1	1	-	-	1
23	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
	23	Sink Insulation White	2 basins	Suspect	2	1	1	-	-	1
24	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
25	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
26	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
27	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
28	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
29	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
30	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
31	01	Composition Floor Tile 12" Khaki w/ Brown/White	850 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	625 sf	Suspect	2	1	1	7	-	1
32	01	Composition Floor Tile 12" Khaki w/ Brown/White	170 sf	Suspect	3	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	170 sf	Suspect	3	1	1	7	-	1
33	05	Carpet Mastic Under Blue/Pink/Cream Carpet	170 sf	Suspect	3	1	1	-	-	1
	12	Suspended Panel Ceiling 2x2 Perforations and Fissures	170 sf	Suspect	3	1	1	7	-	1
34	01	Composition Floor Tile 12" Khaki w/ Brown/White	120 sf	Suspect	3	1	1	-	-	1
	05	Carpet Mastic Under Blue/Pink/Cream Carpet	275 sf	Suspect	3	1	1	-	-	1
	12	Suspended Panel Ceiling 2x2 Perforations and Fissures	395 sf	Suspect	3	1	1	7	-	1
35	01	Composition Floor Tile 12" Khaki w/ Brown/White	280 sf	Suspect	3	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	280 sf	Suspect	3	1	1	7	-	1
	23	Sink Insulation White	1 basin	Suspect	3	1	1	-	-	1
36	01	Composition Floor Tile 12" Khaki w/ Brown/White	30 sf	Suspect	3	1	1	-	-	1
	09	Hard plaster ceiling Smooth finish	-	Non-ACBM[2]	-	-	-	-	-	-
37	05	Carpet Mastic Under Blue/Pink/Cream Carpet	110 sf	Suspect	3	1	1	-	-	1
	12	Suspended Panel Ceiling 2x2 Perforations and Fissures	110 sf	Suspect	3	1	1	7	-	1
	23	Sink Insulation White	1 basin	Suspect	3	1	1	-	-	1
38	11	Suspended Panel Ceiling 2x2 Perforations	260 sf	Suspect	1	1	1	7	-	1
39	15	Pipe Joint Insulation White Exterior	25 joints	Suspect	4	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
40	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
41	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
42	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
43	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
44	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
45	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
46	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
47	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
48	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
49	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
50	01	Composition Floor Tile 12" Khaki w/ Brown/White	785 sf	Suspect	2	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	225 sf	Suspect	2	1	1	7	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	560 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
51	05	Carpet Mastic Under Blue/Pink/Cream Carpet	1200 sf	Suspect	1	1	1	-	-	1
	13	Suspended Panel Ceiling 2x4 Perforations and Fissures	1200 sf	Suspect	1	1	1	7	-	1
52	01	Composition Floor Tile 12" Khaki w/ Brown/White	135 sf	Suspect	3	1	1	-	-	1
	13	Suspended Panel Ceiling 2x4 Perforations and Fissures	135 sf	Suspect	3	1	1	7	-	1
53	01	Composition Floor Tile 12" Khaki w/ Brown/White	160 sf	Suspect	3	1	1	-	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	160 sf	Suspect	3	1	1	7	-	1
54	04	Carpet Mastic Under Blue Carpet	225 sf	Suspect	3	1	1	-	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	225 sf	Suspect	3	1	1	7	-	1
55	01	Composition Floor Tile 12" Khaki w/ Brown/White	400 sf	Suspect	3	1	1	-	-	1
	14	Suspended Panel Ceiling 2x2 Perforations	400 sf	Suspect	3	1	1	7	-	1
56	01	Composition Floor Tile 12" Khaki w/ Brown/White	35 sf	Suspect	3	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-
57	01	Composition Floor Tile 12" Khaki w/ Brown/White	35 sf	Suspect	3	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	-	Non-ACBM[2]	-	-	-	-	-	-

Space Number	HA	Material Description	Quantity (est.)	Asbestos Content	A	B	C	D	E	F
58	05	Carpet Mastic Under Blue/Pink/Cream Carpet	375 sf	Suspect	2	1	1	-	-	1
	14	Suspended Panel Ceiling 2x4 Perforations	375 sf	Suspect	2	1	1	7	-	1
59	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	315 sf	Suspect	1	1	1	-	-	1
	11	Suspended Panel Ceiling 2x2 Perforations	315 sf	Suspect	1	1	1	7	-	1
60	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	200 sf	Suspect	2	1	1	-	-	1
	05	Carpet Mastic Under Blue/Pink/Cream Carpet	775 sf	Suspect	2	1	1	-	-	1
	12	Suspended Panel Ceiling 2x4' two-sizes of perforations	975 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
61	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	40 sf	Suspect	2	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	40 sf	Suspect	2	1	1	-	-	1
62	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	40 sf	Suspect	2	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	40 sf	Suspect	2	1	1	-	-	1
63	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	110 sf	Suspect	2	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	110 sf	Suspect	2	1	1	-	-	1
64	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	200 sf	Suspect	2	1	1	-	-	1
	05	Carpet Mastic Under Blue/Pink/Cream Carpet	775 sf	Suspect	2	1	1	-	-	1
	12	Suspended Panel Ceiling 2x2 Perforations and Fissures	975 sf	Suspect	2	1	1	7	-	1
	24	Sink Insulation Black	2 basins	Suspect	2	1	1	-	-	1
65	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	40 sf	Suspect	2	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	40 sf	Suspect	2	1	1	-	-	1
66	03	Composition Floor Tile 12" Brown w/ Brown/White/Pink	40 sf	Suspect	2	1	1	-	-	1
	09	Ceiling Plaster System Smooth Finish	40 sf	Suspect	2	1	1	-	-	1
67	15	Pipe Joint Insulation White Exterior	Unknown	Suspect	5	1	1	-	-	1

References:
1 – As indicated in the original Asbestos Management Plan
2 – Limited Asbestos Inspection Report – Hard Plaster Ceiling System; prepared by FE on June 26, 2019

Appendix A – Consultant Credentials

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Leann B Freeman

Ohio Environmental Protection Agency

36285 Hedgerow Park Drive
North Ridgeville OH 44039

DOB: 10/22/79

Certification Number	Expiration Date
ES33964	1/16/22

Card not Valid if Altered

TSI *Training Services International*

Asbestos Management Planner Refresher

Leann B. Freeman

XXX-XX-8081

HAS ATTENDED THE COURSE AND SUCCESSFULLY PA[illegible] EXAMINAT[illegible] A SCORE OF 70% OR BETTER IN ACCORDANCE WITH TSCA [illegible] INDIANA R[illegible] 18-2, ILLINIOS TITLE 77 SECTION 855.120 AND CHAPTER 3745-[illegible] ADMINISTE[illegible] E.

Instructor	Exp Date	Class Date(s)	Test Date	Location
	6/10/22	6/10/21	6/10/21	Cleveland , OH

21 TSI **86797 mpr**

TSI *Training Services International*

Asbestos Building Inspector Refresher

Leann B. Freeman

XXX-XX-8081

HAS ATTENDED THE COURSE AND SUCCESSFULLY PA[illegible] EXAMINAT[illegible] A SCORE OF 70% OR BETTER IN ACCORDANCE WITH TSCA [illegible] INDIANA R[illegible] 18-2, ILLINIOS TITLE 77 SECTION 855.120 AND CHAPTER 3745-[illegible] ADMINISTE[illegible] E.

Instructor	Exp Date	Class Date(s)	Test Date	Location
	6/10/22	6/10/21	6/10/21	Cleveland , OH

21 TSI **86781 ir**

SECTION 23 21 13 - HYDRONIC PIPING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes pipe and fitting materials, joining methods, special-duty valves, and specialties for the following:
   1. Condensate-drain piping.

1.2 PERFORMANCE REQUIREMENTS

A. Hydronic piping components and installation shall be capable of withstanding the following minimum working pressure and temperature:
   1. Condensate-Drain Piping: 150 deg F.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of the following:
   1. Piping material and fittings.

PART 2 - PRODUCTS

2.1 PVC PIPE AND FITTINGS

A. PVC Material: The material used in the manufacture of the pipe shall be a rigid polyvinyl chloride (PVC) compound, Type I Grade I, with a Cell Classification of 12454 as defined in ASTM D1784. This compound shall be light gray in color.

B. Pipe Dimensions: All sizes of PVC Schedule 80 pipe shall be manufactured by and ISO 9001 certified manufacture in strict accordance to the requirements of ASTM D1785 for physical dimensions and tolerances. Each production run of pipe manufactured in compliance to the standard, shall also meet or exceed the test requirements for materials, workmanship, burst pressure, flattening, and extrusion quality defined in ASTM D1785.

C. Pipe Markings: Product marking shall meet the requirements of ASTM D1785 and shall include: the manufacturer's name (or the manufacturer's trademark when privately labeled); the nominal pipe size; the material designation code; the pipe schedule and pressure rating in PSI for water @ 73°F; the ASTM designation D1785.

D. Threaded metal to plastic connections are not permitted. Where transitions between plastic and metal pipe and fittings occur, compression style metal to plastic unions, flanges, or grooved connections shall be utilized.

2.2 CPVC PIPE AND FITTINGS

A. CPVC Material: The material used in the manufacture of the pipe shall be a rigid polyvinyl chloride (PVC) compound, Type IV Grade I, with a Cell Classification of 23447 as defined in ASTM D1784. This compound shall be light gray in color.

B. Pipe Dimensions: All sizes of CPVC Schedule 80 pipe shall be manufactured in strict accordance to the requirements of ASTM F 441 for physical dimensions and tolerances. Each production run of pipe manufactured in compliance to the standard, shall also meet or exceed the test requirements for materials, workmanship, burst pressure, flattening, and extrusion quality defined in ASTM D1784.

C. Pipe Markings: Product marking shall meet the requirements of ASTM F 441 and shall include: the manufacturer's name (or the manufacturer's trademark when privately labeled); the nominal pipe size; the material designation code; the pipe schedule and pressure rating in PSI for water @ 73°F; the ASTM designation D1784.

2.3 JOINING MATERIALS

A. PVC solvent Joints: Solvent-cemented joints should be utilized in a two step process with primer manufactured for thermoplastic piping systems conforming to ASTM F656 and solvent cement conforming to ASTM 2564. Primer shall be clear. Solvent-cement shall be clear, medium-bodied and medium-setting and formulated for PVC piping.

B. CPVC solvent joints: Solvent-cemented joints should be utilized in a two step process with primer manufactured for thermoplastic piping systems and solvent cement conforming to ASTM F493. Primer shall be clear. Solvent-cement shall be clear, medium-bodied and medium-setting and formulated for CPVC piping.

PART 3 - EXECUTION

3.1 PIPING APPLICATIONS

A. Condensate-Drain Piping:
   1. Within non-plenum rated buildings areas:
      a. Schedule 40 PVC, Schedule 80 PVC or Schedule 80 CPVC pipe with solvent-cement joints. Pipe shall not bear the weight of installed equipment and flow control devices. Where pipe connections are used to bear the weight of equipment, equipment shall be independently supported, and if necessary copper or stainless spool pieces utilized to perform this function.
   2. Within plenum rated buildings areas:
      a. Schedule 80 CPVC pipe with solvent-cement joints. Pipe shall not bear the weight of installed equipment and flow control devices. Where pipe connections are used to bear the weight of equipment, equipment shall be independently supported, and if necessary copper or stainless spool pieces utilized to perform this function.

3.2 PIPING INSTALLATIONS

A. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicate piping locations and arrangements if such were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.

B. Install piping in concealed locations, unless otherwise indicated and except in equipment rooms and service areas.

C. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.

D. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.

E. Install piping to permit valve servicing.

F. Install piping at indicated slopes.

G. Install piping free of sags and bends.

H. Install fittings for changes in direction and branch connections.

I. Install piping to allow application of insulation.

J. Select system components with pressure rating equal to or greater than system operating pressure.

K. Install groups of pipes parallel to each other, spaced to permit applying insulation and servicing of valves.

L. Reduce pipe sizes using eccentric reducer fitting installed with level side up for horizontal piping.

M. Identify piping as specified in Division 23 Section "Identification for HVAC Piping and Equipment."

3.3 HANGERS AND SUPPORTS

A. Hanger, support, and anchor devices are specified in Division 23 Section "Hangers and Supports for HVAC Piping and Equipment." Comply with the following requirements for maximum spacing of supports.

B. Pipe attachments shall be located adjacent to fittings at each offset or change in direction, at ends of branches over 5 feet long, at riser pipes, and along piping where necessary to prevent sags, bends, or vibration. Piping risers shall be supported at each floor level.

C. Hanger rod must hang perpendicular before and after pipe covering or insulation is applied.
   1. Support piping from rolled steel beams or channels from any point on either top or bottom flanges.
   2. Support piping from open web steel joists from hangers connected to either top or bottom chords within 3 inches of center of chord panel points (intersection of diagonal or vertical chord with top or bottom chord). Joist reinforcement will be required if hangers are not installed at panel points.
   3. In addition to maximum spacing of hangers or supports specified below, the number and spacing of hangers and supports shall be such as to equally distribute loads to all structural members in the system.
   4. Connections to structural members shall be clamping devices which do not damage or deform structural elements. Welding to or drilling holes in structural members is not permitted unless specifically approved by Architect.
   5. Threaded rod shall not be bent. Provide swivel connection or other means to prevent stress on threaded rod.

D. Support vertical runs at roof, at each floor, and at 10-foot intervals between floors.

3.4 PIPE JOINT CONSTRUCTION

A. Join pipe and fittings according to the following requirements and Division 23 Sections specifying piping systems.

B. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

END OF SECTION 23 21 13

A. Pre-Bid Meeting Minutes: The pre-bid meeting minutes and sign in sheet have been processed and enclosed herein for informational use only. We, the A/E, do not accept responsibility for the accuracy of these minutes and they do not modify the Contract. The pre-bid meeting minutes are for information only. Any items brought up at the pre-bid meeting that required contract modification has been issued as part of the Addendum.

1. Attachments
    a. Pre-Bid Agenda and Meeting Minutes
    b. Pre-Bid Sign-In Sheet
    c. School Calendar 2022-2023
    d. School Calendar 2023-2024

FANNING
HOWEY

4930 Bradenton Ave
Suite 200
Dublin, OH 43017
614.764.4661
fhai.com

PREBID MEETING

Date: October 24, 2023

Re: HVAC Modifications – Phase 2 Elementary Schools
Ravenna City Schools
Ravenna, OH
Project No. 221119.00

Present: Ravenna City Schools
Stephen York, Director of Business Operations
Kyle Lawrence, Maintenance

Interested Contractors
As shown on the attached Sign-In Sheet

Fanning/Howey Associates, Inc.
Jonathan Landis, Mechanical Engineer

Purpose: Prebid Meeting

1. Introductions:

   a. Jonathan Landis introduced the Owner to the contractors present and thanked the contractors for considering bidding this Project.

   b. It was noted that we would review the specifics for bidding the Project.

2. Scope:

   a. Provide mini-split cooling units to classrooms at West Main, West Park and Willyard Elementary Schools.

3. Advertisement to Bid

   a. Per the information contained in the Advertisement For Bids in the Project Manual, the Board of Education will receive bids until **11:00 a.m. (local time) on Thursday November 2, 2023** at Carlin Elementary School Gym, 531 Washington Avenue, Ravenna, OH 44266. Bids received after 11:00 a.m. local time on that day will be returned unopened.

4. Obtaining Bid Documents

   a. Copies of the Contract Documents may be viewed at the Plan Rooms identified in the Advertisement for Bids or available through DC Reprographics, as denoted in the Advertisement For Bids.

5. Instructions to Bidders

   a. Per the information contained in the Project Manual, bids shall be executed on the Bid Proposal Form provided. Other information to be included with the Bid Form is outlined in the Instructions to Bidders.

6. Bid Submittals

   a. Each Bid Proposal shall be submitted with all required submissions listed in the specifications. The Project will be constructed under a Single-Prime Contract.

   b. The entire Bid Proposal and all required information shall be submitted.

7. Identification of Submission of Bid Proposal

   a. Per the Instructions to Bidders, the Bid Proposal shall be submitted in a sealed opaque envelope with the identifications and markings as outlined in the specifications.

8. Bonds

   a. See the Instructions to Bidders for the requirements of bid securities and bonds required.

9. Prebid Site Visits

   a. Owner may provide Bidders access to the Project site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid.

10. Determination of Lowest Responsible Bid

    a. The Bidder's compliance with the Bid Form, bid requirements, and other criteria listed in the Instructions to Bidders, will be considered by the Owner during the Bid and Bidder responsibility evaluation process. Refer to Specifications.

11. Contractors Construction Sequence

    a. The Work will be performed concurrently and is scheduled to be completed by March 1, 2024.

12. Temporary Facilities and Controls

    a. Information on temporary facilities and controls are listed in Specification Section 01 50 00 of the Project Manual.

13. Alternates

    a. Alternate No. 1 – HVAC Equipment Outlets – West Main Elementary School

    b. Alternate No. 2 – HVAC Equipment Outlets – West Park Elementary School

    c. Alternate No. 3 – HVAC Equipment Outlets – Willyard Elementary Schools

    d. Alternate No. 4 – HVAC Equipment Outlets – West Main, West Park and Willyard Elementary Schools

14. Request for Approval of Product Substitution

    a. Requests for the approval of product substitutions are to be submitted at least 7 days before the bid date. The date for receiving such requests closes on Thursday October 26, 2023, by 5:00 pm.

15. Questions and Clarifications

    a. Per the instructions in the Project Manual, questions should be emailed to OhioBidQuestions@fhai.com. Questions requiring clarifications or revisions will be addressed in an Addendum.

    b. Any final Request for Interpretations (RFI) must be submitted no later than Thursday October 26, 2023, by 5:00 pm.

16. Addenda

    a. No addendums have been released yet. We anticipate releasing Addendum No. 1 on October 26, 2023.

17. Permits, Fees, and Notices

    a. Fanning Howey will submit the project drawings for plan approval with the City of Ravenna after the project is awarded. The Owner will pay for the plan approval fees.

    b. Contractor is responsible for all permits, inspections, governmental fees, tap-in fees and licenses and their associated costs.

18. Submittals

    a. List of submissions for any critical lead time items must be submitted within 15 days of issuance of the Letter of Intent to Award. No time extensions shall be granted for materials due to availability or lead times.

19. Other Important Items:

    a. This Project is not required to meet all Federal Prevailing Wage requirements. This will be updated in Addendum No. 1.

    b. A reminder to include the allowance into your bids, the amount is $25,000.00 per Elementary School ($75,000.00 total). Refer to the specifications.

20. Questions:

    a. What will the work hours be?
        .1 Work hours will be 2nd shift when school is in session. Certain exterior work may be accomplished during school hours. Background checks must be obtained for all personnel working during school hours.
        .2 The City of Ravenna requirements would apply to work outside of the building.
        .3 Work may be accomplished during school in-service days and/or breaks. Refer to school calendar attached.
        .4 All working hours shall be coordinated with the Owner.

    b. How will the buildings be accessed?
        .1 Custodians will be on site after school hours. Coordinate specific access requirements with the Owner.

    c. What is the existing building automation system (BAS)?
        .1 There will be no integration of new controls into the existing BAS. All new equipment will have standalone controls.

d. Is PVC condensate acceptable?
   .1 Yes. This will be updated in Addendum No. 1.

e. What color shall the refrigerant line set covers be?
   .1 White. This is specified in Note 1 on the Drawings.

f. Are plastic condensing unit pads acceptable?
   .1 Yes. This will be updated in the Addendum No. 1.

g. Are there any hazardous materials in the buildings?
   .1 Owner confirmed there is asbestos in the ceiling at West Main. West Park and Willyard do not have any hazardous material.
   .2 Hazardous material report for West Main will be added in the Addendum.
   .3 The Owner will be responsible for the removal of any hazardous material. Coordinate with the Owner.

FANNING HOWEY

Project Name HVAC Modifications – Phase 2 Elementary Schools
Project No. 221119.00
Meeting Date 10/24/2023

PLEASE PRINT CLEARLY. YOUR NAME AND TITLE WILL BE INCLUDED IN THE MEETING REPORT.

THANK YOU!

SIGN-IN SHEET

NAME *(Please print)*	TITLE	COMPANY	PHONE/ FAX	E-MAIL
Melanie Kruger	Lead Estimator	Standard Plbg & Htg	330-327-4295	mKruger@Standardparch.com
Rebekah Wright	COO	Wright Heating	330 673-3507	rebekah@wrightheating.com

Ravenna School District
2022 – 2023 Calendar

August 2022

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September 2022

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October 2022

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November 2022

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December 2022

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January 2023

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Key

	Staff Only ~ No Students
	School Closed
	End of Grading Period

Important Dates

August

(**15**) Staff Convocation Day
(**16**) Staff Preparation Day
(**17**) First Day of School - Students

September

(**5**) Labor Day – No School

October

(**14**) NEOEA Day - No School
(**21**) End of 1st Grading Period
(_46_ days)

November

(**8**) Staff Professional Development Day – No School
(**24-25**) Thanksgiving Break
(**28**) Conference Day – No School

December

(**21**) Start Winter Break
(**25**) Christmas

January

(**1**) New Year's Day
(4) Return to School – Winter Break
(**12**) End of 2nd Grading Period (**_45_ days**)
End of 1st Semester (**_91_days**)
(**13**) Record's Day - No School
(**16**) Martin Luther King Day – No School

February

(**17**) Staff Professional Development Day – No School
(**20**) President's Day - No School

March

(**17**) End of 3rd Grading Period
(**_42__ days**)

April

(**3**) Start Spring Break
(**7**) Good Friday
(**10**) Conference Day – No School
(**11**) Return to School - Spring Break

May

(**25**) End of 4th Grading Period
(**_43_ days**)
End of 2nd Semester (**85_days**)
(**26**) Record's Day – No School
(**29**) Memorial Day - No School

July

(4) Independence Day

February 2023

S	M	T	W	T	F	S
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March 2023

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April 2023

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May 2023

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June 2023

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July 2023

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OST Testing

Ravenna School District
2023 – 2024 Calendar

August 2023

S	M	T	W	T	F	S
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September 2023

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October 2023

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November 2023

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December 2023

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January 2024

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	Staff Only – No Students
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	End of Grading Period

Important Dates

August
(**14**) Staff Convocation Day
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October
(**13**) NEOEA Day - No School
(**20**) End of 1st Grading Period
(_46__ days)

November
(**7**) Staff Professional Development Day – No School
(**23-24**) Thanksgiving Break
(**27**) Conference Day – No School

December
(**20**) Start Winter Break
(**25**) Christmas

January
(**1**) New Year's Day
(**3**) Return to School – Winter Break
(**11**) End of 2nd Grading Period
(**_45__ days**)
End of 1st Semester (**_91_days**)
(**12**) Record's Day - No School
(**15**) Martin Luther King Day – No School

February
(**16**) Staff Professional Development Day – No School
(**19**) President's Day - No School

March
(**15**) End of 3rd Grading Period
(**_42_ days**)
(**29**) Good Friday

April
(**1**) Start Spring Break
(**5**) Conference Day – No School
(**8**) Return to School - Spring Break

May
(**23**) End of 4th Grading Period
(**_43__ days**)
End of 2nd Semester (**_85_days**)
(**24**) Record's Day – No School
(**27**) Memorial Day - No School

June
(**19**) Juneteenth

July
(**4**) Independence Day

February 2024

S	M	T	W	T	F	S
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March 2024

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April 2024

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May 2024

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June 2024

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July 2024

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28	29	30	31			

OST Testing

MINI-SPLIT HEAT PUMP UNIT

MARK	NOMINAL TONS CLG CAPACITY	EVAPORATOR UNIT AIRFLOW CFM	EVAPORATOR UNIT COOLING BTUH	EVAPORATOR UNIT HEATING BTUH	EVAPORATOR UNIT MODEL NUMBER	POWER BREAKER	POWER RLA	POWER ELEC SERV	OUTDOOR CONDENSING UNIT AIRFLOW CFM	OUTDOOR CONDENSING UNIT MODEL NUMBER	SEER
MSCU-075	3/4 TON	219/249/322/431	4,400-10,200	4,400-13,000	FTX09AXVJU	15 AMP	8.5	208/1	1,083-1,103	RX09AXVJU	19.0
MSCU-15	1.5 TON	395/467/605/716	5,500-20,000	5,500-24,000	FTX18AXVJU	20 AMP	18.25	208/1	1,905-2,005	RX18AXVJU	20.3
MSCU-20	2 TON	395/467/605/716	5,500-24,000	5,800-27,600	FTX24AXVJU	20 AMP	18.25	208/1	1908	RX24AXVJU	20.0
MSCU-25	2.5 TON	512/572/727/890	10,200-31,400	10,200-34,800	FTX30NVJU	20 AMP	18.25	208/1	2,274-2,528	RX30NMVJUA	17.5

NOTES

1. HARDWIRED OR WIRELESS TEMPERATURE THERMOSTAT MOUNTED ON WALL.
2. INCOMING POWER SHALL BE TO CONDENSING UNIT. ELECTRICAL CONTRACTOR SHALL TAP OFF TO INDOOR UNIT.
3. ENTERING AIR CONDITIONS = 75 DEGREES F @ 50% RH.
4. SUPPORT INDOOR UNIT FROM WALL BELOW CEILING. OUTDOOR CONDENSER SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD ON GRADE OR MOUNTED TO THE WALL USING MANUFACTURER PROVIDED WALL BRACKET AS DETERMINED ON THE DRAWINGS. REFER TO SPECIFICATION 230529.
5. OUTDOOR TEMPERATURE OPERATING RANGES: COOLING: -4° - 115°
   HEATING: 5° - 65°
6. EVAPORATOR SECTION COMPLETE WITH COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER.
7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
8. MINIMUM THREE FAN SPEED SETTINGS AND AUTO SETTING.
9. DISCONNECT SWITCH BY DIVISION 26-ELECTRICAL.

MULTI MINI-SPLIT HEAT PUMP UNIT

MARK	NOMINAL TONS CLG CAPACITY	EVAPORATOR/FAN COIL UNIT AIRFLOW CFM	EVAPORATOR/FAN COIL UNIT COOLING BTUH	EVAPORATOR/FAN COIL UNIT HEATING BTUH	EVAPORATOR/FAN COIL UNIT MODEL NUMBER	EVAPORATOR/FAN COIL UNIT ELEC SERV	OUTDOOR CONDENSING UNIT UNIT MARK	OUTDOOR CONDENSING UNIT BREAKER	OUTDOOR CONDENSING UNIT MCA	OUTDOOR CONDENSING UNIT ELEC SERV	OUTDOOR CONDENSING UNIT MODEL NUMBER
FC-20	2.0 TON	643/494/350/328	5,500-24,000	5,500-27,000	FTXS24WVJU9	208/1	CU-40	35	30.8	208/1	5MXS48WVJU9
FC-20	2.0 TON	643/494/350/328	5,500-24,000	5,500-27,000	FTXS24WVJU9						

NOTES

1. EACH INDOOR UNIT TO BE PROVIDED WITH HARDWIRED OR WIRELESS TEMPERATURE THERMOSTAT MOUNTED ON WALL.
2. INCOMING POWER SHALL BE TO CONDENSING UNIT. ELECTRICAL CONTRACTOR SHALL TAP OFF TO INDOOR UNIT.
3. COOLING EAT = 75 DEGREES F @ 50% RH, HEATING = 47 DEGREES F
4. SUPPORT INDOOR UNIT FROM WALL BELOW CEILING. OUTDOOR CONDENSER SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD ON GRADE OR MOUNTED TO THE WALL USING MANUFACTURER PROVIDED WALL BRACKET AS DETERMINED ON THE DRAWINGS. REFER TO SPECIFICATION 230529.
5. OUTDOOR TEMPERATURE OPERATING RANGES: COOLING: 14° - 115°
   HEATING: 5° - 60°
6. EVAPORATOR SECTION COMPLETE WITH COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER.
7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
8. MINIMUM THREE FAN SPEED SETTINGS AND AUTO SETTING.
9. DISCONNECT SWITCH BY DIVISION 26-ELECTRICAL.

1 REFRIGERANT PIPING DETAIL

NO SCALE

NOTE:
DRAIN PIPE TO MATCH DRAIN OUTLET SIZE.

2 CONDENSATE TRAP PIPING DETAIL

(BLOW THROUGH CONFIGURATION) NO SCALE

3 CONDENSATE PUMP/PIPE DETAIL

NO SCALE

UNIT A - FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - FIRST FLOOR

ROOM NO.	ROOM NAME	AREA (SF)
1	ENTRY	650 SF
2	CORRIDOR	376 SF
3	TOILET	36 SF
4	TOILET	36 SF
5	STORAGE	43 SF
6	KINDERGARTEN	946 SF
7	KINDERGARTEN	946 SF
8	STORAGE	43 SF
9	COMPUTER ROOM	432 SF
10	STORAGE	117 SF
11	WORK	155 SF
12	LIBRARY	1169 SF
13	AUDIO-VISUAL	128 SF
14	CONFERENCE	219 SF
15	FACULTY	344 SF
16	WOMEN	34 SF
17	MEN	34 SF
18	CORRIDOR	1317 SF
19	CORRIDOR	116 SF
20	1ST GRADE	844 SF
21	1ST GRADE	844 SF
22	L.D.	844 SF
23	READING	844 SF
24	2ND GRADE	844 SF
25	CORRIDOR	1165 SF
26	2ND GRADE	844 SF
27	2ND GRADE	844 SF
28	MUSIC	844 SF
29	ART	844 SF
30	WASH AREA	240 SF
31	GIRLS	171 SF
32	JANITOR	85 SF
33	BOYS	185 SF
34	GENERAL OFFICE	401 SF
35	WORK	107 SF
36	TOILET	32 SF
37	CLINIC	280 SF
38	PRINCIPAL	174 SF
39	WORK	174 SF
40	BOYS	185 SF
41	JANITOR	85 SF
42	GIRLS	171 SF
43	WASH AREA	256 SF
44	PHYSICAL HANDICAP	835 SF
45	4TH GRADE	835 SF
46	4TH GRADE	835 SF
47	RESOURCE II L.D.	835 SF
48	3RD GRADE	835 SF
49	CORRIDOR	1878 SF
50	3RD GRADE	835 SF
51	RESOURCE L.D.	835 SF
52	5TH GRADE	835 SF
53	4TH GRADE	835 SF
54	BOILER ROOM	705 SF
55	PASSAGE	152 SF
56	BOOKS	171 SF
57	RECEIVE	325 SF
58	FOOD	127 SF
59	TOILET	32 SF
60	KITCHEN	921 SF
61	SOILED DISH AREA	91 SF
62	PASSAGE	59 SF
63	PASSAGE	248 SF
64	BOYS LOCKER	339 SF
65	GIRLS LOCKER	266 SF
66	BOYS SHOWER	87 SF
67	GIRLS SHOWER	87 SF
68	STORAGE	307 SF
69	PLAYROOM	3672 SF
70	PLATFORM / CAFETERIA	2096 SF
71	VESTIBULE	19 SF
72	PASSAGE	28 SF
73	BOYS	50 SF
74	GIRLS	44 SF
75	CORRIDOR	527 SF

MECHANICAL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE DROP CEILING. WHEN NO DROP CEILING IS PRESENT, ALL PIPING AND VALVES SHALL BE EXPOSED ALONG THE INTERIOR AND EXTERIOR WALLS. ALL EXPOSED PIPING IN FINISHED SPACES TO BE PROTECTED WITH WHITE PVC JACKET.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
F. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
G. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
H. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
I. EXISTING MECHANICAL SYSTEMS SHOWN AS DOTTED LINES AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE STARTING CONSTRUCTION.

MECHANICAL PLAN NOTES

X

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
1	REFRIGERANT SUCTION AND DISCHARGE LINES TO MINI-SPLIT CONDENSING UNIT. ALL PIPING PENETRATING THE WALL OR ROOF SHALL BE SEALED WATER TIGHT. REFRIGERANT PIPING SHALL BE INSULATED THE FULL LENGTH. REFRIGERANT PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE PROTECTED WITH A SELF-SEALING JACKET. ALL EXPOSED INTERIOR PIPING IN FINISHED SPACES TO BE PROVIDED WITH WHITE PVC JACKET.
2	LINE SIZE PVC CONDENSATE PIPING FROM INDOOR EVAPORATOR TO GRADE OUTSIDE. TERMINATE CONDENSATE PIPING A MINIMUM OF 18" ABOVE GRADE. COORDINATE EXACT LOCATION WITH EXISTING UTILITIES, EQUIPMENT AND GRADE.
3	OUTDOOR CONDENSING UNIT FOR INDOOR SPLIT SYSTEM SHALL BE INSTALLED ON HEAVY DUTY PLASTIC HOUSEKEEPING PAD. LEVEL PAD WITH GRAVEL AS REQUIRED. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
4	INSTALL THE TOP OF THE INDOOR WALL MOUNTED EVAPORATOR AT 8'-0" AFF. EXACT MOUNTING LOCATION SHALL BE COORDINATED WITH THE OWNER AND THE EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION. INDOOR UNIT SHALL BE LABELED WITH THE ROOM NUMBER WHERE THE UNIT IS LOCATED. FIELD VERIFY/COORDINATE THE EXACT ROOM NUMBERS WITH THE OWNER.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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WILLYARD ELEMENTARY SCHOOL: HVAC MODIFICATIONS

680 SUMMIT STREET
RAVENNA, OHIO 44266

RAVENNA LOCAL SCHOOL DISTRICT

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO MARK Z. HOPE E-79009 REGISTERED PROFESSIONAL ENGINEER

PROJECT MANAGER: TIM LEHMAN
DRAWN BY: JWL
PROJECT NUMBER: 221119.00
PROJECT ISSUE DATE: 10/06/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	10/26/23

FIRST FLOOR MECHANICAL PLAN - UNIT A, SCHEDULES & DETAILS

WI-M2.01

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UNIT B - FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - FIRST FLOOR

ROOM NO.	ROOM NAME	AREA (SF)
1	ENTRY	650 SF
2	CORRIDOR	376 SF
3	TOILET	36 SF
4	TOILET	36 SF
5	STORAGE	43 SF
6	KINDERGARTEN	946 SF
7	KINDERGARTEN	946 SF
8	STORAGE	43 SF
9	COMPUTER ROOM	432 SF
10	STORAGE	117 SF
11	WORK	155 SF
12	LIBRARY	1169 SF
13	AUDIO-VISUAL	128 SF
14	CONFERENCE	219 SF
15	FACULTY	344 SF
16	WOMEN	34 SF
17	MEN	34 SF
18	CORRIDOR	1317 SF
19	CORRIDOR	116 SF
20	1ST GRADE	844 SF
21	1ST GRADE	844 SF
22	L.D.	844 SF
23	READING	844 SF
24	2ND GRADE	844 SF
25	CORRIDOR	1165 SF
26	2ND GRADE	844 SF
27	2ND GRADE	844 SF
28	MUSIC	844 SF
29	ART	844 SF
30	WASH AREA	240 SF
31	GIRLS	171 SF
32	JANITOR	85 SF
33	BOYS	185 SF
34	GENERAL OFFICE	401 SF
35	WORK	107 SF
36	TOILET	32 SF
37	CLINIC	280 SF
38	PRINCIPAL	174 SF
39	WORK	174 SF
40	BOYS	185 SF
41	JANITOR	85 SF
42	GIRLS	171 SF
43	WASH AREA	256 SF
44	PHYSICAL HANDICAP	835 SF
45	4TH GRADE	835 SF
46	4TH GRADE	835 SF
47	RESOURCE II L.D.	835 SF
48	3RD GRADE	835 SF
49	CORRIDOR	1878 SF
50	3RD GRADE	835 SF
51	RESOURCE L.D.	835 SF
52	5TH GRADE	835 SF
53	4TH GRADE	835 SF
54	BOILER ROOM	705 SF
55	PASSAGE	152 SF
56	BOOKS	171 SF
57	RECEIVE	325 SF
58	FOOD	127 SF
59	TOILET	32 SF
60	KITCHEN	921 SF
61	SOILED DISH AREA	91 SF
62	PASSAGE	59 SF
63	PASSAGE	248 SF
64	BOYS LOCKER	339 SF
65	GIRLS LOCKER	266 SF
66	BOYS SHOWER	87 SF
67	GIRLS SHOWER	87 SF
68	STORAGE	307 SF
69	PLAYROOM	3672 SF
70	PLATFORM / CAFETERIA	2096 SF
71	VESTIBULE	19 SF
72	PASSAGE	28 SF
73	BOYS	50 SF
74	GIRLS	44 SF
75	CORRIDOR	527 SF

MECHANICAL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE DROP CEILING. WHEN NO DROP CEILING IS PRESENT, ALL PIPING AND VALVES SHALL BE EXPOSED ALONG THE INTERIOR AND EXTERIOR WALLS. ALL EXPOSED PIPING IN FINISHED SPACES TO BE PROTECTED WITH WHITE PVC JACKET.

B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.

C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.

D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.

E. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.

F. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.

G. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.

H. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.

I. EXISTING MECHANICAL SYSTEMS SHOWN AS DOTTED LINES AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE STARTING CONSTRUCTION.

MECHANICAL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
1	REFRIGERANT SUCTION AND DISCHARGE LINES TO MINI-SPLIT CONDENSING UNIT. ALL PIPING PENETRATING THE WALL OR ROOF SHALL BE SEALED WATER TIGHT. REFRIGERANT PIPING SHALL BE INSULATED THE FULL LENGTH. REFRIGERANT PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE PROTECTED WITH A SELF-SEALING JACKET. ALL EXPOSED INTERIOR PIPING IN FINISHED SPACES TO BE PROVIDED WITH WHITE PVC JACKET.
2	LINE SIZE PVC CONDENSATE PIPING FROM INDOOR EVAPORATOR TO GRADE OUTSIDE. TERMINATE CONDENSATE PIPING A MINIMUM OF 18" ABOVE GRADE. COORDINATE EXACT LOCATION WITH EXISTING UTILITIES, EQUIPMENT AND GRADE.
3	OUTDOOR CONDENSING UNIT FOR INDOOR SPLIT SYSTEM SHALL BE INSTALLED ON HEAVY DUTY PLASTIC HOUSEKEEPING PAD. LEVEL PAD WITH GRAVEL AS REQUIRED. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
4	INSTALL THE TOP OF THE INDOOR WALL MOUNTED EVAPORATOR AT 8'-0" AFF. EXACT MOUNTING LOCATION SHALL BE COORDINATED WITH THE OWNER AND THE EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION. INDOOR UNIT SHALL BE LABELED WITH THE ROOM NUMBER WHERE THE UNIT IS LOCATED. FIELD VERIFY/COORDINATE THE EXACT ROOM NUMBERS WITH THE OWNER.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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WILLYARD ELEMENTARY SCHOOL: HVAC MODIFICATIONS

680 SUMMIT STREET
RAVENNA, OHIO 44266

RAVENNA LOCAL SCHOOL DISTRICT

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK Z. HOPE
E-79009
REGISTERED
PROFESSIONAL ENGINEER

PROJECT MANAGER: TIM LEHMAN

DRAWN BY: JWL

PROJECT NUMBER: 221119.00

PROJECT ISSUE DATE: 10/06/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	10/26/23

FIRST FLOOR MECHANICAL PLAN - UNIT B

WI-M2.02

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ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
01	HALL	45 SF
02	KITCHEN	126 SF
03	PLATFORM	809 SF
04	STORAGE	174 SF
05	TABLE STORAGE	320 SF
06	STOR. & EQUIP.	186 SF
07	STOR. & EQUIP.	186 SF
68-101	KINDERGARTEN	972 SF
68-102	KINDERGARTEN	972 SF
68-103	TOILET	19 SF
68-104	TOILET	19 SF
68-105	CORRIDOR	791 SF
68-106	CLASSROOM	824 SF
68-107	CLASSROOM	824 SF
68-108	CLASSROOM	824 SF
68-109	CLASSROOM	824 SF
68-110	CORRIDOR	798 SF
68-111	CLASSROOM	824 SF
68-112	CLASSROOM	824 SF
68-113	JANITOR	23 SF
68-114	BOYS	108 SF
68-115	GIRLS	108 SF
101	REMEDIAL READING	601 SF
102	MULTI-HANDICAPPED	625 SF
103	STORAGE	90 SF

ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
104	TOILET	44 SF
105	HANDICAPPED	312 SF
106	COATS	58 SF
107	TEACHERS WORKROOM	517 SF
108	GIRLS	221 SF
109	JANITOR	93 SF
110	BOYS	221 SF
111	BOILER ROOM	795 SF
112	TRANSFORMER ROOM	147 SF
113	ELECTRICAL ROOM	45 SF
114	SPEECH	90 SF
115	PHSYC	90 SF
116	WAITING ROOM	104 SF
117	SHOWER	54 SF
118	MUSIC	835 SF
119	LIBRARY	1610 SF
120	CLINIC	196 SF
121	TOILET	24 SF
122	PRINCIPAL	248 SF
123	GENERAL OFFICE	339 SF
124	GYM	2893 SF
125A	HALL	1408 SF
125B	HALL	597 SF
126	HALL	579 SF
127	OFFICE	58 SF
136	PIPE SPACE	12 SF

UNIT A - FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

MECHANICAL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE DROP CEILING. WHEN NO DROP CEILING IS PRESENT, ALL PIPING AND VALVES SHALL BE EXPOSED ALONG THE INTERIOR AND EXTERIOR WALLS. ALL EXPOSED PIPING IN FINISHED SPACES TO BE PROTECTED WITH WHITE PVC JACKET.

B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.

C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.

D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.

E. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.

F. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.

G. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.

H. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.

I. EXISTING MECHANICAL SYSTEMS SHOWN AS DOTTED LINES AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE STARTING CONSTRUCTION.

MECHANICAL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
1	REFRIGERANT SUCTION AND DISCHARGE LINES TO MINI-SPLIT CONDENSING UNIT. ALL PIPING PENETRATING THE WALL OR ROOF SHALL BE SEALED WATER TIGHT. REFRIGERANT PIPING SHALL BE INSULATED THE FULL LENGTH. REFRIGERANT PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE PROTECTED WITH A SELF-SEALING JACKET. ALL EXPOSED INTERIOR PIPING IN FINISHED SPACES TO BE PROVIDED WITH WHITE PVC JACKET.
2	LINE SIZE PVC CONDENSATE PIPING FROM INDOOR EVAPORATOR TO GRADE OUTSIDE. TERMINATE CONDENSATE PIPING A MINIMUM OF 18" ABOVE GRADE. COORDINATE EXACT LOCATION WITH EXISTING UTILITIES, EQUIPMENT AND GRADE.
3	OUTDOOR CONDENSING UNIT FOR INDOOR SPLIT SYSTEM SHALL BE INSTALLED ON HEAVY DUTY PLASTIC HOUSEKEEPING PAD. LEVEL PAD WITH GRAVEL AS REQUIRED. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
4	INSTALL THE TOP OF THE INDOOR WALL MOUNTED EVAPORATOR AT 8'-0" AFF. EXACT MOUNTING LOCATION SHALL BE COORDINATED WITH THE OWNER AND THE EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION. INDOOR UNIT SHALL BE LABELED WITH THE ROOM NUMBER WHERE THE UNIT IS LOCATED. FIELD VERIFY/COORDINATE THE EXACT ROOM NUMBERS WITH THE OWNER.
5	PROVIDE INDOOR EVAPORATOR UNIT WITH A CONDENSATE PUMP.
7	OUTDOOR CONDENSING UNIT FOR INDOOR SPLIT SYSTEM SHALL BE WALL MOUNTED USING MANUFACTURER'S PROVIDED WALL BRACKET. MOUNT BOTTOM OF UNIT AT OR ABOVE THE EXISTING WINDOW SILL ELEVATION. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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419-586-7771 WWW.FHAI.COM

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK Z. HOPF
E-79009
REGISTERED
PROFESSIONAL ENGINEER

PROJECT MANAGER: TIM LEHMAN

DRAWN BY: JWL

PROJECT NUMBER: 221119.00

PROJECT ISSUE DATE: 10/06/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	10/26/23

FIRST FLOOR MECHANICAL PLAN

WM-M2.01

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ROOM LEGEND - SECOND FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
201	LEVEL 3	836 SF
202	LEVEL 3	835 SF
203	L.D. TUTOR	199 SF
204	LEVEL 3	835 SF
205	GIRLS	262 SF
206	BOYS	290 SF
207	LEVEL 2	835 SF
208	ART / MULTI-PURPOSE	916 SF
209	LEVEL 3	835 SF
210	LEVEL 3	835 SF
211	LEVEL 3	835 SF
212	LEVEL 2	835 SF
213	TOILET	18 SF
214	HALL	2165 SF
215	ART SUPPLIES	188 SF
216	JANITOR	24 SF

UNIT A - SECOND FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

MINI-SPLIT HEAT PUMP UNIT

MARK	NOMINAL TONS CLG CAPACITY	EVAPORATOR UNIT				POWER			OUTDOOR CONDENSING UNIT		SEER
		AIRFLOW CFM	COOLING BTUH	HEATING BTUH	MODEL NUMBER	BREAKER	RLA	ELEC SERV	AIRFLOW CFM	MODEL NUMBER	
MSCU-075	3/4 TON	219/249/322/431	4,400-10,200	4,400-13,000	FTX09AXVJU	15 AMP	8.5	208/1	1,083-1,103	RX09AXVJU	19.0
MSCU-15	1.5 TON	395/467/605/716	5,500-20,000	5,500-24,000	FTX18AXVJU	20 AMP	18.25	208/1	1,905-2,005	RX18AXVJU	20.3
MSCU-20	2 TON	395/467/605/716	5,500-24,000	5,800-27,600	FTX24AXVJU	20 AMP	18.25	208/1	1908	RX24AXVJU	20.0
MSCU-25	2.5 TON	512/572/727/890	10,200-31,400	10,200-34,800	FTX30NVJU	20 AMP	18.25	208/1	2,274-2,528	RX30NMVJUA	17.5

NOTES

1. HARDWIRED OR WIRELESS TEMPERATURE THERMOSTAT MOUNTED ON WALL.
2. INCOMING POWER SHALL BE TO CONDENSING UNIT. ELECTRICAL CONTRACTOR SHALL TAP OFF TO INDOOR UNIT.
3. ENTERING AIR CONDITIONS = 75 DEGREES F @ 50% RH.
4. SUPPORT INDOOR UNIT FROM WALL BELOW CEILING. OUTDOOR CONDENSER SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD ON GRADE OR MOUNTED TO THE WALL USING MANUFACTURER PROVIDED WALL BRACKET AS DETERMINED ON THE DRAWINGS. REFER TO SPECIFICATION 230529.
5. OUTDOOR TEMPERATURE OPERATING RANGES: COOLING: -4° - 115° HEATING: 5° - 65°
6. EVAPORATOR SECTION COMPLETE WITH COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER.
7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
8. MINIMUM THREE FAN SPEED SETTINGS AND AUTO SETTING.
9. DISCONNECT SWITCH BY DIVISION 26-ELECTRICAL.

MULTI MINI-SPLIT HEAT PUMP UNIT

MARK	NOMINAL TONS CLG CAPACITY	EVAPORATOR/FAN COIL UNIT					OUTDOOR CONDENSING UNIT				
		AIRFLOW CFM	COOLING BTUH	HEATING BTUH	MODEL NUMBER	ELEC SERV	UNIT MARK	BREAKER	MCA	ELEC SERV	MODEL NUMBER
FC-10	1.0 TON	403/307/205/155	12,000	14,000	FTXS12WVJU9	208/1	CU-30	25	20.9	208/1	4MXS36WVJU9
FC-20	2.0 TON	643/494/350/328	24,000	27,000	FTXS24WVJU9						
FC-20	2.0 TON	643/494/350/328	24,000	27,000	FTXS24WVJU9	208/1	CU-40	35	30.8	208/1	5MXS48WVJU9
FC-20	2.0 TON	643/494/350/328	24,000	27,000	FTXS24WVJU9						

NOTES

1. EACH INDOOR UNIT TO BE PROVIDED WITH HARDWIRED OR WIRELESS TEMPERATURE THERMOSTAT MOUNTED ON WALL.
2. INCOMING POWER SHALL BE TO CONDENSING UNIT. ELECTRICAL CONTRACTOR SHALL TAP OFF TO INDOOR UNIT.
3. COOLING EAT = 75 DEGREES F @ 50% RH, HEATING = 47 DEGREES F
4. SUPPORT INDOOR UNIT FROM WALL BELOW CEILING. OUTDOOR CONDENSER SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD ON GRADE OR MOUNTED TO THE WALL USING MANUFACTURER PROVIDED WALL BRACKET AS DETERMINED ON THE DRAWINGS. REFER TO SPECIFICATION 230529.
5. OUTDOOR TEMPERATURE OPERATING RANGES: COOLING: 14° - 115° HEATING: 5° - 60°
6. EVAPORATOR SECTION COMPLETE WITH COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER.
7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
8. MINIMUM THREE FAN SPEED SETTINGS AND AUTO SETTING.
9. DISCONNECT SWITCH BY DIVISION 26-ELECTRICAL.

1 REFRIGERANT PIPING DETAIL

NO SCALE

NOTE:
DRAIN PIPE TO MATCH DRAIN OUTLET SIZE.

2 CONDENSATE TRAP PIPING DETAIL

(BLOW THROUGH CONFIGURATION) NO SCALE

3 CONDENSATE PUMP/PIPE DETAIL

NO SCALE

MECHANICAL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE DROP CEILING. WHEN NO DROP CEILING IS PRESENT, ALL PIPING AND VALVES SHALL BE EXPOSED ALONG THE INTERIOR AND EXTERIOR WALLS. ALL EXPOSED PIPING IN FINISHED SPACES TO BE PROTECTED WITH WHITE PVC JACKET.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
F. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
G. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
H. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
I. EXISTING MECHANICAL SYSTEMS SHOWN AS DOTTED LINES AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE STARTING CONSTRUCTION.

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(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
1	REFRIGERANT SUCTION AND DISCHARGE LINES TO MINI-SPLIT CONDENSING UNIT. ALL PIPING PENETRATING THE WALL OR ROOF SHALL BE SEALED WATER TIGHT. REFRIGERANT PIPING SHALL BE INSULATED THE FULL LENGTH. REFRIGERANT PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE PROTECTED WITH A SELF-SEALING JACKET. ALL EXPOSED INTERIOR PIPING IN FINISHED SPACES TO BE PROVIDED WITH WHITE PVC JACKET.
2	LINE SIZE PVC CONDENSATE PIPING FROM INDOOR EVAPORATOR TO GRADE OUTSIDE. TERMINATE CONDENSATE PIPING A MINIMUM OF 18" ABOVE GRADE. COORDINATE EXACT LOCATION WITH EXISTING UTILITIES, EQUIPMENT AND GRADE.
4	INSTALL THE TOP OF THE INDOOR WALL MOUNTED EVAPORATOR AT 8'-0" AFF. EXACT MOUNTING LOCATION SHALL BE COORDINATED WITH THE OWNER AND THE EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION. INDOOR UNIT SHALL BE LABELED WITH THE ROOM NUMBER WHERE THE UNIT IS LOCATED. FIELD VERIFY/COORDINATE THE EXACT ROOM NUMBERS WITH THE OWNER.
6	OUTDOOR CONDENSING UNIT FOR INDOOR SPLIT SYSTEM SHALL BE WALL MOUNTED USING MANUFACTURER'S PROVIDED WALL BRACKET. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.

VERIFICATION NOTE

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REGISTERED
PROFESSIONAL ENGINEER

PROJECT MANAGER: TIM LEHMAN
DRAWN BY: JWL
PROJECT NUMBER: 221119.00
PROJECT ISSUE DATE: 10/06/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	10/26/23

SECOND FLOOR MECHANICAL PLAN, SCHEDULES & DETAILS

WM-M2.02

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UNIT A - FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

MINI-SPLIT HEAT PUMP UNIT											
		EVAPORATOR UNIT				POWER			OUTDOOR CONDENSING UNIT		
MARK	NOMINAL TONS CLG CAPACITY	AIRFLOW CFM	COOLING BTUH	HEATING BTUH	MODEL NUMBER	BREAKER	RLA	ELEC SERV	AIRFLOW CFM	MODEL NUMBER	SEER
MSCU-075	3/4 TON	219/249/322/431	4,400-10,200	4,400-13,000	FTX09AXVJU	15 AMP	8.5	208/1	1,083-1,103	RX09AXVJU	19.0
MSCU-15	1.5 TON	395/467/605/716	5,500-20,000	5,500-24,000	FTX18AXVJU	20 AMP	18.25	208/1	1,905-2,005	RX18AXVJU	20.3
MSCU-20	2 TON	395/467/605/716	5,500-24,000	5,800-27,600	FTX24AXVJU	20 AMP	18.25	208/1	1908	RX24AXVJU	20.0
MSCU-25	2.5 TON	512/572/727/890	10,200-31,400	10,200-34,800	FTX30NVJU	20 AMP	18.25	208/1	2,274-2,528	RX30NMVJUA	17.5

NOTES

1. HARDWIRED OR WIRELESS TEMPERATURE THERMOSTAT MOUNTED ON WALL.
2. INCOMING POWER SHALL BE TO CONDENSING UNIT. ELECTRICAL CONTRACTOR SHALL TAP OFF TO INDOOR UNIT.
3. ENTERING AIR CONDITIONS = 75 DEGREES F @ 50% RH.
4. SUPPORT INDOOR UNIT FROM WALL BELOW CEILING. OUTDOOR CONDENSER SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD ON GRADE OR MOUNTED TO THE WALL USING MANUFACTURER PROVIDED WALL BRACKET AS DETERMINED ON THE DRAWINGS. REFER TO SPECIFICATION 230529.
5. OUTDOOR TEMPERATURE OPERATING RANGES: COOLING: -4° - 115° HEATING: 5° - 65°
6. EVAPORATOR SECTION COMPLETE WITH COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER.
7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
8. MINIMUM THREE FAN SPEED SETTINGS AND AUTO SETTING.
9. DISCONNECT SWITCH BY DIVISION 26-ELECTRICAL.

MULTI MINI-SPLIT HEAT PUMP UNIT											
		EVAPORATOR/FAN COIL UNIT					OUTDOOR CONDENSING UNIT				
MARK	NOMINAL TONS CLG CAPACITY	AIRFLOW CFM	COOLING BTUH	HEATING BTUH	MODEL NUMBER	ELEC SERV	UNIT MARK	BREAKER	MCA	ELEC SERV	MODEL NUMBER
FC-20	2.0 TON	643/494/350/328	5,500-24,000	5,500-27,000	FTXS24WVJU9	208/1	CU-40	35	30.8	208/1	5MXS48WVJU9
FC-20	2.0 TON	643/494/350/328	5,500-24,000	5,500-27,000	FTXS24WVJU9						

NOTES

1. EACH INDOOR UNIT TO BE PROVIDED WITH HARDWIRED OR WIRELESS TEMPERATURE THERMOSTAT MOUNTED ON WALL.
2. INCOMING POWER SHALL BE TO CONDENSING UNIT. ELECTRICAL CONTRACTOR SHALL TAP OFF TO INDOOR UNIT.
3. COOLING EAT = 75 DEGREES F @ 50% RH, HEATING = 47 DEGREES F
4. SUPPORT INDOOR UNIT FROM WALL BELOW CEILING. OUTDOOR CONDENSER SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PAD ON GRADE OR MOUNTED TO THE WALL USING MANUFACTURER PROVIDED WALL BRACKET AS DETERMINED ON THE DRAWINGS. REFER TO SPECIFICATION 230529.
5. OUTDOOR TEMPERATURE OPERATING RANGES: COOLING: 14° - 115° HEATING: 5° - 60°
6. EVAPORATOR SECTION COMPLETE WITH COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER.
7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
8. MINIMUM THREE FAN SPEED SETTINGS AND AUTO SETTING.
9. DISCONNECT SWITCH BY DIVISION 26-ELECTRICAL.

1 REFRIGERANT PIPING DETAIL

NO SCALE

NOTE:
DRAIN PIPE TO MATCH DRAIN OUTLET SIZE.

2 CONDENSATE TRAP PIPING DETAIL

(BLOW THROUGH CONFIGURATION) NO SCALE

3 CONDENSATE PUMP/PIPE DETAIL

NO SCALE

UNIT B - FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

MECHANICAL PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE DROP CEILING. WHEN NO DROP CEILING IS PRESENT, ALL PIPING AND VALVES SHALL BE EXPOSED ALONG THE INTERIOR AND EXTERIOR WALLS. ALL EXPOSED PIPING IN FINISHED SPACES TO BE PROTECTED WITH WHITE PVC JACKET.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
F. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
G. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
H. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
I. EXISTING MECHANICAL SYSTEMS SHOWN AS DOTTED LINES AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS BEFORE STARTING CONSTRUCTION.

MECHANICAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
1	REFRIGERANT SUCTION AND DISCHARGE LINES TO MINI-SPLIT CONDENSING UNIT. ALL PIPING PENETRATING THE WALL OR ROOF SHALL BE SEALED WATER TIGHT. REFRIGERANT PIPING SHALL BE INSULATED THE FULL LENGTH. REFRIGERANT PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE PROTECTED WITH A SELF-SEALING JACKET. ALL EXPOSED INTERIOR PIPING IN FINISHED SPACES TO BE PROVIDED WITH WHITE PVC JACKET.
2	LINE SIZE PVC CONDENSATE PIPING FROM INDOOR EVAPORATOR TO GRADE OUTSIDE. TERMINATE CONDENSATE PIPING A MINIMUM OF 18" ABOVE GRADE. COORDINATE EXACT LOCATION WITH EXISTING UTILITIES, EQUIPMENT AND GRADE.
3	OUTDOOR CONDENSING UNIT FOR INDOOR SPLIT SYSTEM SHALL BE INSTALLED ON HEAVY DUTY PLASTIC HOUSEKEEPING PAD. LEVEL PAD WITH GRAVEL AS REQUIRED. COORDINATE EXACT LOCATION WITH EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
4	INSTALL THE TOP OF THE INDOOR WALL MOUNTED EVAPORATOR AT 8'-0" AFF. EXACT MOUNTING LOCATION SHALL BE COORDINATED WITH THE OWNER AND THE EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION. INDOOR UNIT SHALL BE LABELED WITH THE ROOM NUMBER WHERE THE UNIT IS LOCATED. FIELD VERIFY/COORDINATE THE EXACT ROOM NUMBERS WITH THE OWNER.

ROOM LEGEND - FIRST FLOOR

ROOM NO.	ROOM NAME	AREA (SF)
101	CORRIDOR	600 SF
102	CORRIDOR	558 SF
103	CORRIDOR	434 SF
104	CORRIDOR	1000 SF
105	CORRIDOR	612 SF
106	CORRIDOR	576 SF
107	CLASSROOM	863 SF
108	CLASSROOM	863 SF
109	CLASSROOM	863 SF
110	CLASSROOM	864 SF
111	CLASSROOM	863 SF
112	CLASSROOM	863 SF
113	CLASSROOM	863 SF
114	CLASSROOM	864 SF
115	CLASSROOM	863 SF
116	CLASSROOM	863 SF
117	CLASSROOM	863 SF
118	CLASSROOM	864 SF
119	KINDERGARTEN	1004 SF
120	KINDERGARTEN	1004 SF
121	BOILER RM	424 SF
122	GIRLS TOILET	186 SF
123	BOYS TOILET	220 SF
124	JANITOR	128 SF
125	MPR STORAGE	322 SF
126	KITCHENETTE	155 SF
127	MULTI-PURPOSE RM	4852 SF
128	STAFF RM4	156 SF
129	GIRLS TOILET	287 SF
130	BOYS TOILET	355 SF
131	JANITOR	60 SF
132	TOILET	18 SF
133	LIBRARY	516 SF
134	TOILET	22 SF
135	TOILET	22 SF
136	WORK RM	161 SF
136A	Room	109 SF
137	TEACHERS LOUNGE	153 SF
138	RECEPTION	171 SF
139	OFFICE	120 SF
140	TOILET	18 SF
141	CLINIC	204 SF
142	CLOSET	18 SF
143	TOILET	18 SF

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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WEST PARK ELEMENTARY: HVAC MODIFICATIONS

1071 JONES AVENUE
RAVENNA, OHIO 44266

RAVENNA LOCAL SCHOOL DISTRICT

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO MARK Z. HOFF E-79009 REGISTERED PROFESSIONAL ENGINEER

PROJECT MANAGER: TIM LEHMAN

DRAWN BY: JWL

PROJECT NUMBER: 221119.00

PROJECT ISSUE DATE: 10/06/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	10/26/23

FIRST FLOOR MECHANICAL PLAN

WP-M2.01

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