Invitation to Bid

ASBESTOS ABATEMENT – BOILER ROOMS

Responses to an Invitation to Bid will be received by the Purchasing Coordinator, Sumner County Board of Education, 1500 Airport Road, Gallatin, TN 37066 for ASBESTOS ABATEMENT – BOILERS ROOMS until 9:30 a.m. CDT Tuesday May 24, 2011. Bid responses will be opened at that time, taken under advisement and evaluated. Should you have any questions please call Kellie Carver, Maintenance Department, at (615) 939-2179 or (615) 451-5255. All proposals are subject to the Board of Education’s conditions and specifications which are available from Vicky Currey, Purchasing Coordinator (615) 451-6560. All bids can be viewed on line at www.sumnerschools.org.
Asbestos Abatement Specification
Sumner County Schools
Gallatin Tennessee

Prepared by:

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PROJECT DIRECTORY

PROJECT PARTY

Project:

RT Fisher Alternative School
J.W. Wiseman Elementary
Watt Hardison Elementary

Owner:

Sumner County Schools
695 East Main Street
Gallatin Tennessee 37066

Kellie Carver
(615) 804-6211

Consultant:

Frost Environmental Services, LLC
101 Ash Court
Hendersonville, TN 37075

Seth Frost
(615) 562-2669

END OF PROJECT DIRECTORY
SECTION 01010
SUMMARY OF WORK AND SCHEDULE

PART 1 - GENERAL

1.01 DESCRIPTION

A. The general intent of the Work is the removal of all asbestos containing thermal system insulation (TSI) within the boiler rooms of RT Fisher Alternative School, J.W. Wiseman Elementary School, and Watt Hardison Elementary School schools located in Gallatin and Portland Tennessee.

B. Include work listed below and incidentals thereto. Require that all phases of the Work be executed by skilled craftsman experienced in their respective trades.

C. Contractor may subcontract any phase or portion of the Work. However, such subcontract shall not relieve Contractor from enforcing the use of all required safety equipment by subcontractor and its employees providing any phase of the Work in contaminated areas. Require and verify that all materials and methods used by subcontractor are consistent with materials and methods for established and safe asbestos removal procedures and consistent with the Contract Documents.

1.02 WORK INCLUDED

A. Work included in the Contract Documents (Reference other Sections of the Specifications for specific details):

1. Identify location and amount of all asbestos-containing materials present in the boiler rooms.

2. Prepare work areas prior to asbestos-containing material abatement as described in Section 02080.

3. Abate all friable and potentially friable asbestos-containing materials TSI within the boiler rooms as described in Section 02080.

4. Clean and clear all work areas, properly dispose of all removed asbestos-containing material, asbestos-contaminated materials and wastes as described in Section 02080.

5. Follow proper Occupational Safety and Health Administration (OSHA) work practices during disturbance of lead based paint as described in Section 02081.
B. Related Work

1. Provide personnel air monitoring for safety of Contractor's employees required by the U.S. and Tennessee Occupational Safety and Health Administrations and in accordance with Contract Documents.

1.03 SCHEDULING OF THE WORK

A. Work on the sites may begin as soon as submittals are approved and permits are in place.

1.04 WORK NOT INCLUDED IN THE CONTRACT DOCUMENTS

A. Environmental Air Monitoring during abatement. Environmental Air monitoring will be performed for the Owner by Frost Environmental Services, LLC.

1.05 EXISTING CONDITIONS

A. Existing conditions are reflected correctly to the best of facilities', Architect's and Consultant's knowledge. Should minor conditions be encountered which are not exactly as indicated, modification to the Work shall be made as required at no additional expense to Owner.

B. The Contractor shall visit the properties prior to preparing his bid.

1.06 BUILDING OCCUPANCY

A. The Schools will be occupied during abatement activities.

B. The Contractor shall coordinate Work with Consultant, the Owner to minimize conflict and facilitate restoration of the property.

1.07 PRE-JOB DAMAGE SURVEY

A. As part of the Pre-Construction Meeting, perform a thorough survey of the boiler rooms of the property with Consultant and Owner prior to starting the Work in order to document existing damage. A list of damaged items will be compiled. The Contractor may elect to photograph or videotape existing conditions for reference at his expense.

1.08 CORRECTION OF DAMAGE TO PROPERTY

A. Consider any damage to building or property not identified in the pre-job damage survey as having resulted from execution of this Contract.

B. Correct all such damage at no additional expense to Owner.
1.09 OBSERVATIONS

A. Consultant will periodically observe the status and progress of the Work for completeness and general compliance with the requirements of the Contract Documents. At a minimum, the observations will be conducted at the following times during the Project:

1. Pre-job damage survey
2. Following complete preparation of work areas and prior to proceeding with actual removal of asbestos-containing material;
3. Final inspection and clearance monitoring prior to tear down of containment.
4. Upon completion of work.
5. As appropriate during the Work.

B. Notify Consultant at least 24 hours in advance of the need and readiness for such observations. Should advance notice not be given to Consultant, Consultant will make reasonable effort to comply with time of requested observations. Any delay in the completion of the Project caused by lack of advance notice by Contractor to Consultant shall not be sufficient cause for any extension of time or extension of the Project completion deadline. Also, compensation for time spent by Consultant on the Project resulting from prearranged meetings at which the Work has not progressed to the designated point shall be the responsibility of Contractor and will be deducted by Owner from payment due to Contractor.

1.10 SALVAGEABLE MATERIALS

A. Consider all materials and items demolished or removed in the execution of the Work unsalvageable unless specifically noted otherwise in the Contract Documents.

1.11 INSURANCE REQUIREMENTS

A. The company or companies providing insurance coverage shall be licensed, or approved as a Surplus Lines Carrier, to transact business in the State of Tennessee by the Tennessee Department of Commerce and Insurance. Certificate(s) of insurance provided to attest to coverage shall specifically cite each element of coverage not less than limits set forth in Paragraph 1.11.B as confirmation of complete coverage, and shall identify Contractor, Producer, insurance Carrier, Project, and certificate holder; and, should policies be canceled or modified before expiration date thereof Producer will endeavor to mail 30 days written notice to certificate holder named therein.
B. The Contractor or subcontractor shall maintain throughout the life of this Contract liability insurance written in a comprehensive form, consistent with the project requirements.

1. Workman’s Compensation Insurance as required by statute. Employees Liability Insurance for protection of such of his employees who cannot be covered by Workman’s Compensation Insurance.

2. Public Liability Insurance in the amount not less than $100,000.00 for injuries, including Death, to any one person, and subject to the same limit for each person, in the amount of not less than $300,000.00 on account of one accident.

3. Property Damage Insurance in an amount not less than $50,000.00 for damages on account of any one accident and in an amount not less than $100,000.00 on account of all accidents.

4. Automobile Public Liability Insurance in an amount not less than $500,000.00 for injuries, including death, to any one person, and subject to the same limit for each person, in an amount not less than $1,000,000.00 on account of one accident.

5. Automobile Property Damage Insurance in an amount not less than $50,000.00 for damages on account of any one accident and in an amount not less than $100,000.00 on account of all accidents.

6. Since the Work includes asbestos removal or abatement, Contractor shall provide a Certificate of Insurance evidencing a Special Endorsement for Asbestos Abatement Insurance with a minimum $500,000 limit of liability. Contractor's other General Liability Insurance coverage, as set forth in the specification, may show a notation excluding risks associated with asbestos. If a subcontractor is performing all of the asbestos removal or abatement, the Contractor may provide a Certificate of Insurance for Asbestos Abatement Insurance from the Asbestos Abatement Subcontractor in lieu of his own.

1.12 PERMITS

A. Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for permits and governmental fees, licenses and inspections necessary for the proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required at the time the bids are received.
B. The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner, the Architect and Consultant harmless from loss on account thereof, except that the Owner shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified, but if the Contractor has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the University.

1.13 PROJECT MEETINGS

A. Conduct all meetings with appropriate parties as scheduled and as otherwise necessary to accomplish the Work of the Contract Documents.

B. Provide or designate only persons with authority to commit Contractor, subcontractors and suppliers to revision, modifications and solutions agreed upon in progress meetings.

C. Consultant will advise other interested parties, and request their attendance as necessary.

D. Pre-construction meeting and progress meetings will be held on site.

E. Conduct pre-construction meeting prior to the start of the Work to clarify construction contract administration procedures and address potential problems.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION
SECTION 01300
SUBMITTALS

PART 1 - GENERAL

1.01 DESCRIPTION

A. Make submittals required by the Contract Documents in a timely manner and at appropriate times in the execution of the Work to allow for sufficient and prompt review by Consultant.

B. Revise and resubmit all such documentation as necessary to establish compliance with the specified requirements.

1.02 WORK INCLUDED

A. Submit complete, bound sets of the submittals required in the Contract Documents. Submit separate sets entitled "Pre-Job Submittals" and "Post-Job Submittals".

B. Update submittals to Consultant on a weekly basis to account for all new equipment and employees used on the Project.

C. Submit three complete sets of "Pre-Job Submittals" to Consultant for review, no later than 10 days prior to start. The abatement may not proceed until the complete pre-job submittal package has been accepted by Consultant.

D. Submit three complete sets of "Post-Job Submittals" to the Consultant for review, within 10 days following the final completion of the Work from each area. Request for final payment will not be approved until the post-job submittal package has been reviewed and accepted by Consultant.

E. Identify individual submittals by name and include a table of contents in each submittal package.

1.03 QUALITY ASSURANCE

A. Carefully review and coordinate all aspects of each item being submitted.

B. Verify that each item and its appropriate submittal conform in all respects with the specified requirements.

C. Certify, by affixing original signature of Contractor's authorized representative to the corner of the first page of each copy of each submittal package, that this coordination has taken place.
1.04 PRE-JOB SUBMITTALS

A. Reference other Technical Specification Sections for specific items to be submitted.

B. Submit a proposed progress schedule for the Work. Include delineations of scheduling in sufficient detail for Consultant to determine and evaluate plan such as preparation, removal of asbestos-containing materials, and clearance.

1.05 POST-JOB SUBMITTALS

Reference other Technical Specification Sections for specific items to be submitted.

PART 2 - PRODUCTS

2.01 SAMPLES

Reference other technical sections for samples.

2.02 MANUFACTURER'S LITERATURE

A. Where contents of submitted literature from manufacturers include data not pertinent to the submittal, clearly indicate which portions of the contents are being submitted for review.

B. Submit a minimum of three copies to Consultant for review.

PART 3 - EXECUTION

3.01 IDENTIFICATION OF SUBMITTALS

A. Number consecutively and clearly identify all submittals. Show identification on at least the first page of each submittal, and elsewhere as necessary for positive identification of the submittal.

B. Accompany each submittal package with a letter of transmittal showing all information required for identification and checking.

3.02 TIMING OF SUBMITTALS

A. Make submittals far enough in advance of scheduled dates of commencement, execution or installation to provide time required for reviews, for securing necessary approvals, for possible revisions and re-submittals, and for placing orders and securing delivery.

B. Accept sole responsibility for delays resulting from incomplete or unsigned submittal packages.
3.03 CONSULTANT'S REVIEW

A. Partial submittals may be rejected for non-compliance with the Contract Documents.

B. Review by Consultant shall not relieve Contractor from sole responsibility for errors that may exist in the submitted data.

C. Make revisions promptly when required by Consultant and resubmit for review.

D. "Or Equivalent", "Approved Equivalent", "Other As Approved", etc.

1. Where the phrases "or equivalent," or "approved equivalent" or "other as approved" or similar wording occurs in the Contract Documents, specific materials, equipment, or methods will not be considered as equivalent unless the item has been specifically so approved for this Work by Consultant.

2. Wherever a particular item is listed by manufacturer's name, model number or other identifying information, it shall be interpreted to include equivalent products of other manufacturers whether "approved equivalent", etc. is stated or not.

3. Whenever a manufacturer's product is specified to the exclusion of all other products, it shall be so identified and declared.

E. Decision of the Consultant shall be accepted as final.

END OF SECTION
## PART 1 - GENERAL

### 1.01 SUMMARY

A. Owner will provide a qualified Testing Laboratory to perform routine and special environmental testing of the Work performed under Section 02080 of the Contract Documents to determine general compliance. The Testing Laboratory representative will, in addition to performing routine and special testing necessary to determine general compliance with the Contract Documents, observe and document, on a daily basis, the execution and progress of the Work. Such observation and documentation shall be for the sole benefit of Owner and shall not be construed in any way as to include responsibility for Contractor's means, methods, techniques, sequences or procedures involved with the execution of the Work. Nor shall such observation and documentation by Testing Laboratory be construed as to include responsibility for any safety programs or procedures either utilized or not utilized by Contractor during the Work.

B. Contractor shall select and provide a qualified Testing Laboratory to perform personal monitoring required by Occupational Safety and Health Administration (OSHA) to determine proper respiratory protection for asbestos.

C. The selection of the Testing Laboratory by Owner to perform testing for Owner shall not relieve Contractor from providing its own OSHA or supplemental air testing to determine proper respiratory protection and for compliance with all applicable codes, regulations, requirements as specified in this Section and elsewhere in the Contract Documents.

### 1.02 WORK INCLUDED

A. Cooperate with Owner’s Testing Laboratories in all aspects of the testing to expedite testing and results.

B. The Contractor shall provide and pay for a qualified testing laboratory he selects to perform OSHA personal air monitoring of workers.

C. Provide Owner’s Testing Laboratory representatives access to the Work at all times and in all locations requested as necessary to perform testing and work practice documentation.

D. Pay for all additional testing performed by owners testing laboratory subsequent to noncompliance of Preliminary and Final air clearance tests or wipe tests as required in the Contract Documents.
1.03 WORK NOT INCLUDED

A. Selection of Testing Laboratory for the Owner.

B. Payment for the Owner’s Testing Laboratory.

1.04 REFERENCES

A. OSHA Regulations 29 CFR 1926.1101

B. EPA AHERA 40 CFR 763 Subpart E

C. National Institute for Occupational Safety and Health (NIOSH) 7400 Method (Issue 2, August 1994).

C. Environmental Protection Agency (EPA) Office of Pesticides and Toxic Substance (OPTS) Guide Documents:

1. "Guidance for Controlling Asbestos-Containing Materials in Buildings: (EPA 560/5-85-240, June 1985);


1.05 PRE-JOB SUBMITTALS

A. Submit a statement of qualifications for the Contractor's Laboratories. Refer to Paragraph "Quality Assurance" for a description of the qualifications required.

1.06 QUALITY ASSURANCE

A. Qualifications, Testing Laboratory

1. As a minimum and as appropriate to the services provided for the Project, any Testing Laboratory shall:

   a. Be enrolled in the AIHA Proficiency Analytical Testing (PAT) Program for Phase Contract Microscopy (PCM) and have equipment to read asbestos samples on site.

   c. Have successfully performed field and laboratory testing, or air monitoring and work practice documentation services on at least three projects of a similar scope and magnitude to the Project during the past five years.
2. As a minimum, the personnel assigned to the Project by any Testing Laboratory shall have the following qualifications:

   a. All personnel entering the asbestos abatement work areas or handling asbestos-containing samples shall be instructed in and shall be knowledgeable of the health hazards associated with asbestos exposure and the appropriate procedures for personnel protection.

   b. All personnel performing or reviewing air monitoring tests and work practice documentation shall have successfully completed NIOSH Course 582 - Sampling and Evaluating Airborne Asbestos Dust, or an equivalent course approved by the Consultant.

   c. Person monitoring the project shall be a State of Tennessee certified Project Monitor.

1.07 PAYMENT FOR TESTING SERVICES

   A. The client will pay for up to fifteen (15) eight (8) hour shifts of air testing for asbestos, including Initial and Final air clearance testing, as required by the Contract Documents. When Initial and Final clearance tests indicate noncompliance with the Contract Documents, subsequent retesting will be performed by the same testing Laboratory, and all additional costs will be deducted by owner from payments due the Contractor.

   B. When additional testing is required due to either a breach in the containment, or Contractor Non-compliance with the Contract Documents, subsequent and additional testing shall be performed by Testing Laboratory and all associated costs will be deducted by the owner from the payments due the Contractor. These costs include on-site services at a rate of $500.00 per regular shift or $600.00 per Holiday or weekend shift with a minimum half shift charge for any site visit plus travel expenses at cost plus 15%.

1.08 SCHEDULING

   A. Testing Laboratory shall perform tests in areas and at times during the Work as deemed necessary by the Testing Laboratory and as specified in the Contract Documents.

   B. Notify Testing Laboratory of need for Preliminary and Final clearance air testing at least 24 hours prior to desired time of testing.

   C. Coordinate other scheduling with Testing Laboratory as necessary.
1.09 RESULTS

A. Testing Laboratory will perform all testing and analysis promptly and issue results expeditiously in order to minimize any possible delay in the progress of the Work.

B. Results of asbestos air monitoring tests performed by the Contractor's Testing Laboratory shall be available to Consultant, Owner and Contractor as quickly as possible, but not necessarily earlier than 24 hours following completion of tests.

C. Results of asbestos air clearance tests and other tests performed by the Owner's Testing Laboratory will be made available to the Contractor 24 hours following completion of tests.

D. Contractor is cautioned, however, that should interpretations be made, opinions be formed and conclusions be drawn as a result of examining the test results, these interpretations, opinions and conclusions will be those made, formed and drawn solely by Contractor. Contractor is responsible for performing air tests required for its evaluation of the safety of its employees.

PART 2 - PRODUCTS

2.01 EQUIPMENT

A. The Contractor shall supply the following equipment for the Testing Laboratory's use during the Work:

   1. Ground Fault Interrupter (GFI) Protected Extension Cords. No. 12 gauge copper in lengths sufficient for clearance testing.

B. Testing Laboratory shall provide all other test equipment and supplies.

PART 3 - EXECUTION

3.01 AIR TESTING

A. Clearance air testing will be conducted in general accordance with EPA AHERA 40 CFR 763 Subpart E, appendix A

END OF SECTION
SECTION 02080
ASBESTOS ABATEMENT

PART 1 - GENERAL

1.01 DESCRIPTION

A. Perform all planning, coordination, administration, execution, and cleaning necessary to safely remove friable asbestos-containing TSI from the boiler rooms of RT Fisher Alternative School, J.W. Wiseman Elementary School and Watt Hardison Elementary School as indicated herein.

B. Fully Indemnify and save harmless the Owner, Consultant, and Testing Laboratory from all claims of damages and expenses arising out of or connected with the project.

C. Approval of or acceptance by Consultant or Owner of various construction activities or methods proposed by Contractor does not constitute an assumption of liability either by the Consultant or Owner for inadequacy or adverse consequences of said activities or methods.

1.02 WORK INCLUDED

A. The asbestos abatement work includes the following:

1. RT Fisher Alternative School
   a. Removal of all asbestos containing TSI boiler insulation consisting of approximately 180sqft and ACM TSI pipe insulation consisting of approximately 100lnft.

2. J. W. Wiseman Elementary School
   a. Removal of all asbestos containing TSI boiler insulation consisting of approximately 120sqft and ACM TSI pipe insulation consisting of approximately 20lnft and 5 ACM pipe fittings on fiberglass pipe runs.

3. Watt Hardison Elementary School
   a. Removal of all asbestos containing TSI boiler insulation consisting of approximately 180sqft and ACM TSI pipe insulation consisting of approximately 170lnft and 5 ACM pipe fittings on fiberglass pipe runs.

1.03 DEFINITIONS

A. The following definitions pertain to the Work of these Contract Documents.

1. **Abatement** - procedures to decrease or eliminate fiber release from precast, spray- or trowel-applied asbestos-containing building materials by removal, encapsulation, or enclosure of these materials.

2. **Airlock** - system for permitting ingress or egress of personnel without permitting air movement between a contaminated area and an uncontaminated area, typically consisting of two curtained or fixed-louvered doorways at least 3 feet apart.
3. **Air Monitoring** - the process of measuring the fiber content of a specific volume of air during a stated period of time.

4. **Amended water** - water that has had surfactant added.

5. ANSI - American National Standards Institute.

6. **Clean Room** - an uncontrolled area or room that is part of the worker decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment. Also known as the "Change Room".

7. **Critical Barrier** - Seal applied to openings connecting the abatement area with adjacent spaces that will not be included in the containment. Critical barriers shall not be exposed to the gross removal environment. Examples of openings requiring critical barriers include, but are not limited to HVAC vents and diffusers; doorways; windows; floor, wall, and ceiling penetrations; and air plenums.

8. **Decontamination Enclosure System** - a series of connected rooms, with doorways between any two adjacent rooms, for the decontamination of workers or of materials and equipment. A worker decontamination enclosure system always contains at least five airlocks (rooms). An equipment decontamination system always contains at least three airlocks (rooms).

9. **Doorway** - a device to allow ingress or egress from one room to another while minimizing air movement between the rooms. Two curtained doorways or rigid doors with fixed louvers spaced a minimum of three feet apart form the doorways for an airlock.

10. **Encapsulation** - the sealing of surfaces following abatement involving application of a material (encapsulant) that will eliminate fiber fallout.

11. **EPA** - United States Environmental Protection Agency.

12. **Equipment Decontamination Enclosure System** - a decontamination enclosure system for materials and equipment, typically consisting of a washroom, an airlock, and a holding area.

13. **Equipment Room** - a contaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.

14. **Fixed Object (Immovable object)** - a unit of equipment or furniture in the work area, which cannot be removed from the work area.

15. **Glove Bag** - A method for removing asbestos-containing material from piping, valves, joints, and elbows in a non-contaminated work area. The glove bag assembly is a manufactured or fabricated device consisting of a glove bag (typically constructed of six-mil transparent plastic), two inward projecting long sleeve rubber gloves, one inward projecting waterwand sleeve, and internal tool punch, and an attached labeled receptacle for asbestos waste. The glove bag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and contains all asbestos fibers released during the removal process.

16. **HEPA Filter** - a High Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 microns in length.

17. **HEPA Vacuum Equipment** - vacuuming equipment equipped with a HEPA-filtration system.

18. **Holding Area** - a chamber between the washroom and uncontaminated area in the equipment decontamination enclosure system. The holding area comprises an airlock.

19. **Movable Object** - a unit of equipment or furniture in the work area, which can be removed from the work area.


22. **OSHA** - Occupational Safety and Health Administration.
23. **Plastic Sheeting** - plastic sheet material of specified thickness used for protection of walls, floors, etc., and used to seal openings into the work area.

24. **Removal** - the act of removing asbestos-containing or contaminated materials from the structure under properly controlled conditions to a suitable disposal site.

25. **Shower Room** - a room constituting an airlock, between the clean room and the equipment room in the worker decontamination enclosure system, with hot and cold or warm running water suitably arranged for complete showering during decontamination.

26. **Surfactant** - a chemical wetting agent added to water to improve penetrating ability, thus reducing the quantity of water required to saturate asbestos-containing materials.

27. **Wet Cleaning** - the process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with amended water, and disposing of these cleaning tools as asbestos-contaminated waste.

28. **Washroom** - a room between the work area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.

29. **Work Area** - area or areas of Project that undergo abatement or are contaminated.

30. **Worker Decontamination Enclosure System** - a decontamination enclosure system for workers, typically consisting of a clean room, an airlock, a shower room, an airlock, and an equipment room.

### 1.04 QUALIFICATIONS FOR PERFORMANCE OF WORK

A. Contractor performing asbestos removal shall be a State of Tennessee licensed contractor with an asbestos specialty classification and State of Tennessee Certified Asbestos Firm.

B. Have a record during the past three years of successful experience in asbestos removal and related work on at least three projects similar in scope and magnitude to this Project.

C. Provide a full-time On-Site Supervisor who is experienced in administration and supervision of asbestos abatement projects including work practices, protective measures, disposal procedures, etc. This person is the Competent Person as required by OSHA in 29 CFR 1926 for the Contractor and is the Contractor's Representative responsible for compliance with all applicable federal, state and local regulations, particularly those relating to asbestos-containing materials. Supervisor must be approved by Consultant prior to the start of the Work and shall not be changed without prior approval from Consultant.

D. The Contractor's On-Site Supervisor shall have completed training in an EPA-approved asbestos supervisor update course within the last 12 months and must have had a minimum of two years on-the-job training as a Project Supervisor and meet any additional requirements set forth in 29 CFR 1926 for a Competent Person and is certified as an Asbestos Contractor Supervisor with the State of Tennessee. Supervisor shall remain on site at all times work is in progress.

E. Provide one experienced Job Foreman for every twelve asbestos removal workers (laborers) or portion thereof utilized on the Project. Job Foreman shall have completed training in an EPA-approved asbestos supervisor course or update course within the last 12 months and is certified with the State of Tennessee to perform asbestos abatement.
F. Use only trained and experienced asbestos removal workers to perform the Work of this Section. Asbestos removal workers shall have completed training in an EPA-approved asbestos worker training course or update course within the last 12 months and are certified with the State of Tennessee to perform asbestos abatement.

1.05 REFERENCE STANDARDS

A. Acknowledge, by execution of the Contract, awareness and familiarity with the contents and requirements of the following regulations, codes, standards, and guidance documents. Assume responsibility for the performance of the Work in strict compliance with these documents and for every instance of failure to comply with these documents. The current issue of each document shall govern. Where conflict exists between these documents and the Contract Documents, the more stringent requirements shall apply.

9. Rules of the Tennessee Department of Health and Environment, Bureau of Environment, Division of Air Pollution Control, Chapter 1200-3-11, Hazardous Air Contaminants.
10. Rules of the Tennessee Board of Licensing General Contractors, Chapter 0680.
11. Tennessee Solid Waste Disposal Act, as amended, Acts 1969, Chapter 295, Section 1; TCA; Section 53-4301.
12. Tennessee hazardous Material Right-to-know Laws.
13. All State, County, and City codes and ordinances as applicable.

B. Make available for review at the site one copy of DOT, EPA, OSHA, and applicable State, County and City regulations governing the Work of this Section.

1.06 PERSONNEL PROTECTION

A. Prior to commencement of work, instruct all workers in the appropriate procedures for personnel protection and asbestos removal. Ensure that workers are knowledgeable in these procedures.

B. Acknowledge and agree to sole responsibility for enforcing worker protection requirements at least equal to those specified in this Section.

C. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and OSHA for the type of work being performed.
D. Where respirators with disposable filters are used, provide sufficient filters for replacement as necessary.

E. Provide respiratory protection with the appropriate Respiratory Protection Factor as required by OSHA or as more stringently specified herein from the time of the first operation (including construction of airtight barriers/barricades, and placing of plastic sheeting on walls) until acceptance of final air test results by Consultant.

1. Provide as a minimum an Air purifying, Negative pressure, Half-face, High Efficiency dual cartridge respirators (PF=10) for workers anytime a possibility for disturbance of the asbestos-containing material may occur.

2. Provide full facepiece supplied air respirator operated in the pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus for all employees within the regulated area where Class I work is being performed for which a negative exposure assessment has not been produced.

F. Be solely responsible for scheduling necessary air sampling by an independent testing laboratory for compliance monitoring of abatement workers' respiratory protection with OSHA regulations. Pay for all costs in excess of allotted testing.

G. Permit no visitors, except for governmental inspectors having jurisdiction, or as authorized by Consultant and/or Owner, in the work areas after commencement of asbestos disturbance or removal.

H. Provide workers with sufficient sets of protective disposable clothing, consisting of full-body coveralls, head covers, gloves, and foot covers, of sizes to properly fit individual workers.

I. Leave reusable equipment, apparel, and personal protective equipment (excluding respirators) in the contaminated equipment room until the end of the asbestos abatement work, at which time such items shall be disposed of as contaminated waste or decontaminated for reuse.

J. Provide suitable respirators and other personal protective equipment for use by authorized visitors, Owner, Consultant, and Testing Laboratory representatives. Furnish these items in as many sets as required for full-time monitoring by Testing Laboratory.

1.07 SCHEDULING OF THE WORK

A. No asbestos-containing material may be disturbed until a ten day asbestos notice has been filed with the State of Tennessee.

B. The Consultant or his representative shall not be expected to inspect each area more than once. Compensation for time spent by the Consultant on the project resulting from erroneous scheduling or remedial work by the Contractor shall be the responsibility of the contractor and will be deducted from future payments to the Contractor.
1.08 SUBMITTALS

A. Timing and Review of Submittals

1. Make submittals far enough in advance of schedule dates of commencement, execution or installation to provide time required for reviews, for securing necessary approvals, for possible revisions and re-submittals, and for placing orders and securing delivery.

2. Accept sole responsibility for delays resulting from incomplete submittal package. Partial submittals may be rejected for non-compliance with the Contract Documents.

3. Review by Consultant does not relieve Contractor from sole responsibility for errors that may exist in the submitted data.

B. Pre-Job Submittals

1. Copy of the Contractor’s license and firm certification from the State of Tennessee to perform asbestos abatement.

2. Notice of impending commencement of asbestos removal work 10 days prior to commencing work in writing to:

   Tennessee Department of Environment and Conservation
   Division of Air pollution Control
   9th Floor Life and Casualty Tower
   401 Church Street
   Nashville, Tennessee 37243-1531

   Submit notice package along with Certified Mail Receipts of notification to aforementioned agency. If the time from signing of the Contract to the scheduled start of Work is less than the applicable notice period, seek a waiver of the notice period. Without written approval from said agencies, do not shorten the applicable notice period. (SF-1)

3. All required permits, site location, and arrangements for on-site temporary storage, transport and disposal of asbestos-containing or contaminated materials. Submit letter from the landfill or the agency accepting the material that states that the landfill site to be used meets all regulatory standards.

4. List of projects similar in size and scope to the Work of this Project that has been successfully completed by the Contractor. Representative jobs thus cited shall span a period of not less than three years preceding the commencement of the Work. Include names and telephone numbers of references for verification of completion and quality of work.

5. OSHA abatement worker personnel air monitoring results from 3 similar jobs within the last twelve months.
6. Manufacturer's specifications for air cleaning, vacuum equipment, and air handling equipment, as well as any special tools or safety equipment to be utilized on this Project.

7. Written description, sketch, or combination thereof, of the plans for construction of an asbestos worker and barrel/equipment decontamination enclosure system and for isolation of the work area in compliance with the Contract Documents.

8. Written description, sketch, or combination thereof, of the security plan to be utilized and the locations of fire and emergency exits to be maintained during each phase of the Work.

9. Work procedures or practices to be utilized on the Project.

10. Specimen copy of Sign In/Sign Out Log forms to be used. Indicate name, date, time, company or agency represented, and reason for entering Work area.

11. Listing of supervisory personnel (including foremen) and their experience, qualifications, and training.

12. Copies of certificates attesting to the fact that each worker has received and successfully completed an EPA accredited course of not less than 4 days, conducted per Paragraph 1.04 this Section.

13. Notarized documentation that each and every asbestos abatement employee to be utilized on the Project has had instruction on the hazards of asbestos exposure, protective dress, use of showers, entry to and exit from work areas, and all aspects of work procedures and protective measures regarding asbestos removal.

14. Certification that each and every asbestos abatement worker to be utilized on the Project is actively involved in an employee medical surveillance program. Include copies of each employee's medical examination records.

15. Individually signed copies of form SF-2 by each and every asbestos abatement worker to be utilized on the Project, documenting that each is actively involved in a company employee respirator protection program and has had appropriate training in respiratory protection.

16. Individually signed copies of Certificate of Worker's Release Form SF-3 for each and every asbestos abatement worker to be utilized on the Project.

17. Certification that the air filtration devices to be utilized meet the requirements of the Contract Documents. Also, submit copies of manufacturer's specifications including rated flow capacity.

18. Manufacturer's certification or independent test reports confirming that materials to be utilized on this Project meet or exceed all performance criteria required by the Specifications. Include Form SF-5 or certifications from the Manufacturer that replacement materials are asbestos-free and are compatible with the substrates to which they will be applied. Include Manufacturer's Safety Data Sheets (MSDS) for all aerosol adhesives, sealants, encapsulants or cleaning agents.
19. Listing of any special equipment, techniques, etc., to be used on the Project.

20. Listing of all citations issued by regulatory agencies or judgments against Contractor or subcontractor or a statement indicating “Not Applicable”.

21. Listing of assessed penalties or liquidated damages, and project for which they occurred or a statement indicating “Not Applicable”.

22. Listing of any and all contract terminations or a statement indicating “Not Applicable.”

23. Listing of any revocation of licenses or permits to perform abatement work the firm may have received from any state or regulatory agency or a statement indicating “Not Applicable”.

C. Post-Job Submittals

1. Affidavit of Release of Liens.

2. Copy of executed Sign In/Sign Out Logs for project duration.

3. Copy of employee personnel air monitoring results relative to OSHA respiratory protection level compliance.

4. Medical examinations, worker release forms, asbestos training certification forms, and respirator training documentation of all new employees used on the Project.

5. Transport manifests and Receipts from landfill operator or forms SF-5 that acknowledge the Contractor's deliveries of waste material. Receipts shall include date, quantity of material delivered, a written description or sketch of location of material in landfill, and signature of authorized representative of landfill.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Plastic Sheeting – thickness as specified, in sizes to minimize the frequency of joints. Utilize reinforced plastic sheeting of specified thickness as crawl space barriers.

B. Tape - glass fiber or other type capable of sealing joints of adjacent sheets of plastic and for attachment of plastic sheet to finished or unfinished surfaces under both dry and wet conditions.

C. Surfactant (wetting agent) - mixture of "Dust-Set Amended Water Base" (Matheson Chemical Corporation), and water, mixed to Manufacturer's specifications or BWE Removal encapsulant (Better Working Environments, Inc.) mixed to Manufacturer's specifications or equal.

D. Sealant (encapsulant) - manufactured by reputable, established manufacturer of encapsulant/sealant materials and approved specifically for use in asbestos-contaminated environment.
E. **Impermeable Containers** - suitable to receive and retain asbestos-containing or contaminated materials until disposal at an approved site and labeled in accordance with 29 CFR 1926.1101 and 49 CFR 171-172. Containers shall be both air and water tight. Use two types of impermeable containers:

1. Metal or fiber drums with tightly fitting lids, lined with six-mil plastic,
2. Double-bagged six-mil plastic bags.
3. Plastic lined lockable dumpsters

F. **Warning Labels and Signs** - as required by OSHA 29 CFR 1926.1101 and DOT 49 CFR 172.

G. **Clothing** - full-body coveralls including head covers and foot covers of sizes to properly fit individual workers. Pre-approved products are DuPont "Tyvek-Type 14" or Kimberly-Clark "Kleenguard."

H. **Other Materials** - provide all other materials, such as lumber, nails and hardware, which may be required to construct and dismantle the decontamination system and the barriers that isolate the work area.

2.02 **TOOLS AND EQUIPMENT**

A. **Sprayer** - utilize airless or other low-pressure sprayer for amended water and encapsulant application.

B. **Air Filtration Devices (AFD's)** - Provide high efficiency particulate air (HEPA) filtration systems equipped with filters which complies with ANSI 29.2-79, for local exhaust ventilation and work area air filtration. The AFD's shall be capable of maintaining an air pressure differential across the filters equivalent to 0.05 inches of water. Air movement systems or air filtering equipment shall not discharge unfiltered air outside the work area. A sufficient quantity of AFD's (both inside the work area and at work area exhaust) shall be utilized so as to provide full air circulation and one work area air change every 10 minutes.

C. **Scaffolding** - as required to accomplish the specified work and meet all applicable safety regulations.

D. **Transportation** - as required for loading, temporary storage, transit, and unloading of contaminated waste without exposure to persons or property. Use only enclosed or covered trucks or dumpsters to haul waste containers to prevent loss or damage of containers in route to the landfill.

E. **Differential Pressure Recorder** - capable of producing a continuous strip chart recording of the water column differential pressure in the work area. Instrument shall have a visual and an audible alarm, which is activated if diminished pressure differential in work area of 0.02 inches of water, is not maintained.

F. **Supplied–Air (Type C) Respirator Equipment** supplied air, pressure demand distribution system, air hoses, with compatible connections, etc. Approved by NIOSH for asbestos removal work..
PART 3 - EXECUTION

3.01 PREPARATION

A. Coordinate sequence of work area preparation throughout Project with Owner, Consultant, Testing Laboratory, and other trades or contractors.

B. Work Site Preparation for gross removal of ACM TSI.

1. Coordinate with Owner, shut down of all heating, ventilation and air conditioning (HVAC) systems servicing the work area.

2. Isolate the work areas, until acceptable by Testing Laboratory of final air tests results, by completely sealing off all openings such as corridors not undergoing asbestos removal, doorways, ducts, grills, diffusers, and any other penetrations of the work areas with plastic sheeting sealed with tape.

3. Critical barrier all other penetrations for the duration of abatement except vent pipes which must remain open. Seal walls, floors, ceiling, wall-mounted fixtures, exit signs, etc. with minimum two layers of six-mil plastic sheeting.

4. Clean the work areas using HEPA vacuum equipment or wet-cleaning methods as appropriate. Do not use methods that raise dust such as dry sweeping or vacuuming with equipment not equipped with HEPA filtration. Perform this operation prior to placing items following cleaning.

5. Preclean immovable objects, within the proposed work areas, using HEPA vacuum equipment or wet cleaning methods as appropriate. Completely seal in plastic all immovable items following cleaning.

6. Construct worker and barrel/equipment decontamination units in compliance with EPA guidelines concerning number, size and equipment of airlocks, etc. Shower in worker decontamination unit shall open into airlocks on both contaminated and uncontaminated sides. Construct decontamination units of appropriate materials including plastic sheeting (to provide airtight barriers) and plywood or other suitable rigid materials to allow continuous negative pressure to be maintained in work areas. Supply sufficient number of baskets or lockers, in worker decon change or "clean" room, for worker's clothing. Reserve one basket or locker for Testing Laboratory personnel or authorized visitors. Post OSHA decontamination procedures in change room for duration of Project. The Contractor shall coordinate location of decontamination unit with Owner and Consultant.

7. Place work area under diminished air pressure with local exhaust ventilation. Allow no air movement system or air filtering equipment to discharge unfiltered air outside the work area. Maintain an air of diminished pressure on the work area continuously (24 hours per day) from the start of asbestos removal and until the area has been decontaminated and certified as such by the required air testing. Maintain a minimum of 0.02 inches of water equivalent diminished air pressure. Exhaust all filtered and discharged air outside the building away from any air intake devices. Coordinate with Owner, removal of window to allow for exhaust to exterior.
8. Ensure that all barriers and plastic enclosures remain effectively sealed and taped for duration of asbestos removal and subsequent cleaning. Repair damaged barriers and remedy defects immediately upon discovery. Visually inspect enclosures at the beginning of each work period. Use smoke methods to test effectiveness of barriers.

9. Maintain emergency and fire exits from the work areas, or establish alternative exits satisfactory to fire officials of local jurisdiction.

10. Provide temporary power, lighting and heating as necessary to maintain a comfortable work environment.

11. Notify Consultant and/or testing laboratory for observation of the preparation of jobsite prior to any removal of asbestos-containing material. Prior to notification, complete plasticizing of gross removal work areas and construction of worker and barrel/equipment decontamination enclosure systems, and store all equipment required by Project.

12. Maintain for the duration of Project from the first activity requiring disturbance of asbestos-containing materials, a Sign In/Out Log in the immediate area of the change room. Require that log be utilized by every person each time upon entering and leaving the work area.

13. In decontamination system shower trap, filters using filter having pore size of not larger that one micron, and drain shower wastewater into a sanitary sewer. Replace contaminated filters when they become clogged but not less than every third day. Dispose of filters as contaminated waste. Contractor may trap and collect shower wastewater in impermeable containers and dispose of as contaminated material, at his option, rather than filtering and draining into sanitary sewer.

3.02 ASBESTOS REMOVAL

A. Remove and properly dispose of all asbestos-containing materials indicated to be removed as described in the Contract Documents in accordance with the methods and procedures outlined in the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Asbestos Regulations (Code of Federal Regulations Title 29, Part 1926, Section 1926.1101) or as more stringently specified herein.

B. Gross Removal of Asbestos Containing TSI.

1. Prepare work areas as previously specified.

2. Spray areas of asbestos-containing material with amended water, using spray equipment recommended by surfactant manufacturer and that is capable of providing a "mist" application to reduce the release of fibers. Wet the material sufficiently to penetrate without causing damage to the substrate. Maintain wet condition of the asbestos-containing material, but do not use excessive amounts of water or removal encapsulant.

3. Contractor shall be solely and completely, financially and otherwise responsible for all damage caused by using water throughout the removal operation. Observation of the effects of the removal operation by the Owner, Consultant or Testing Laboratory will not release the Contractor from sole responsibility from any damage.
4. Remove the wetted asbestos material in small sections. Do not allow material to dry out. As it is removed, place material, saturated with amended water or removal encapsulant, in sealable plastic bags of six-mil minimum thickness, double bag and place in labeled containers for transport.

5. Following removal and encapsulation of the asbestos-containing material, notify Testing Laboratory to conduct preliminary visual observation and clearance air monitoring.

3.03 CLEANUP AND CLEARANCE TESTING

A. Standard of Cleaning for Clearance

1. The work area and all other decontaminated areas and cleaned areas shall be considered clean when visibly clean and free of debris and air testing shows fiber concentrations equal to or less to 0.01 fibers per cubic centimeter of air (f/cc) for all clearance test samples based on a minimum of five Phase Contrast Microscopy (PCM) air samples collected in each work area, if total quantity is less than or equal to 160 square feet or 260 linear feet or the work areas and all other decontaminated areas and cleaned areas shall be considered clean when visibly clean and free of debris and air testing shows asbestos fiber concentrations less than 70 structures per square centimeter (70s/mm²) from the average of five air samples collected within the contained area and analyzed by a qualified laboratory which is certified by the National Voluntary Laboratory Accreditation Program (NVLAP). A total of thirteen (13) samples will be collected per containment, five inside, five outside the containment, two field blanks and one lab blank, if total quantity is greater than 160sqft or 260lnft.

2. Clearance testing for the interior gross removal shall be accomplished with the air environment agitated by mechanical devices such as fans or leaf blowers in accordance with EPA Guidance Document "Measuring Airborne Asbestos Following An Abatement Action (EPA 600/4-85-049, November 1985)."

B. Clean Up:

1. Remove all visible accumulations of asbestos-containing or contaminated material and debris.

2. Clean all surfaces in the work area.

3. Clean all sealed impermeable containers and all equipment (excluding that needed for further cleaning) used in the work area and remove from work area via the equipment decontamination enclosure system.

4. Notify Testing Laboratory for observation of initial cleaning to determine completeness. Re-clean areas that are not completely cleaned.

5. After a settling period perform second cleaning of all horizontal surfaces in work area and immediately adjacent areas.
6. Notify Consultant and Testing Laboratory for observation of final cleaning to determine completeness for encapsulation application.

C. Initial Observations and Testing:

1. Areas which do not comply with the standard of cleaning for clearance shall continue to be cleaned by and at the Contractor's expense until the specified standard of cleaning is achieved as evidenced by visual observation and results of air sampling tests accepted by Testing Laboratory as previously specified.

2. Following successful compliance with the standard of cleaning apply one coat of approved encapsulant to all floor, ceiling, and wall plastic in work area using misting, spraying and pumping equipment, as recommended by the encapsulant material manufacturer. Encapsulant shall be a minimum of one coat, mixed and applied in accordance with the manufacturer's written instructions.

3. Notify Testing Laboratory of readiness of work area for observation of encapsulant application for completeness and air testing.

D. Final Observation and Testing:

1. Upon notice from the Testing Laboratory that the Initial Clearance level has been achieved, remove any wall and floor plastic and dispose of as contaminated waste. Do not remove critical barriers or plastic sheeting covering penetrations to areas outside of the work area.

2. A final observation of the cleaning work of this Section will be performed by Testing Laboratory and deficiencies reported to the contractor. When the contractor achieves the visual standard of cleaning, the Testing Laboratory will perform clearance testing as described in 3.03 A and EPA AHERA 40 CFR 763 Subpart E, appendix A.

3. When standard of cleaning is achieved and observation by Testing Laboratory visually determines that the areas have been decontaminated and no glove bag removal is scheduled in the area, the decontamination enclosure system shall be removed, the areas thoroughly cleaned, and materials from the equipment room and shower disposed of as contaminated waste. The remaining barriers between contaminated and clean areas and all seals over openings into the work area shall be removed and disposed of as contaminated waste.

3.04 DISPOSAL OF CONTAMINATED WASTE

A. Remove sealed and labeled containers of contaminated material and wastes and dispose of in approved sanitary landfill as follows:

1. Treat, package, label, and dispose of asbestos-containing waste material in accordance with 40 CFR 61 and 49 CFR 171 and 172.

2. Use only enclosed or covered vehicles to haul impermeable containers to prevent loss or damage to containers enroute to landfill.
3. Allow only sealed plastic bags or impermeable containers to be deposited in landfill. Leave damaged, broken, or leaking plastic bags in the impermeable container and deposit entire container in landfill.

4. Ensure that there are no visible emissions to air from site where materials and waste are deposited.

5. Contractor may recycle uncontaminated impermeable containers.

3.05 STANDARD FORMS

The following special standard forms for the Contractor's use and reference in documenting the Project are attached:

1. SF-1, Notification of Asbestos Demolition or Renovation
2. SF-2, Respirator Training Certification
3. SF-3, Certificate of Asbestos Worker's Release
4. SF-4, Waste Shipment Record
5. SF-5, Affidavit of Asbestos Free Material
## TENNESSEE DIVISION OF AIR POLLUTION CONTROL
NOTIFICATION OF ASBESTOS - DEMOLITION OR RENOVATION

<table>
<thead>
<tr>
<th>OPERATOR PROJECT #</th>
<th>POSTMARK</th>
<th>DATE RECEIVED</th>
<th>NOTIFICATION #</th>
</tr>
</thead>
</table>

### II. Type Of Notification: (O - Orig.     R - Revised       C - Canceled)

### II. Facility Information-- (Identify Owner, Removal contractor, operator)

<table>
<thead>
<tr>
<th>Owner Name:</th>
<th>Address:</th>
<th>City:</th>
<th>State:</th>
<th>Zip:</th>
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<tr>
<th>Removal Contractor:</th>
<th>Address:</th>
<th>City:</th>
<th>State:</th>
<th>Zip:</th>
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<tr>
<th>Other Operator (If Different From Owner):</th>
<th>Address:</th>
<th>City:</th>
<th>State:</th>
<th>Zip:</th>
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### III. Type of Operation (D-Demo.  O-Ordered Demo.  R-Renov.  E-Emer.  Renov.)

### IV. Is Asbestos Present? (Yes/NO)

### V. Facility Description (Include Building Name, Number and Floor or Room Number)

<table>
<thead>
<tr>
<th>Bldg. Name:</th>
<th>Address:</th>
<th>City:</th>
<th>State:</th>
<th>Zip:</th>
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<tr>
<th>Site Location:</th>
<th>Total Sq. Ft.:</th>
<th># of Floors:</th>
<th>Age in Years:</th>
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### VI. Procedure and Analytical Method Used to Detect the Presence of Asbestos Material

### VII. Approximate Amount of Asbestos In Work Area Including:

<table>
<thead>
<tr>
<th>1. Regulated ACM to Be Removed</th>
<th>RACM (Regulated Asbestos)</th>
<th>Nonfriable Asbestos Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Category I ACM Not Removed</td>
<td>Cat I</td>
<td>Cat I</td>
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<tr>
<td>3. Category II ACM Not Removed</td>
<td>Cat II</td>
<td>Cat II</td>
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<thead>
<tr>
<th>Units of Measurement</th>
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<tbody>
<tr>
<td>LnFt (Linear Foot)</td>
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<tr>
<td>Ln m (Linear Meter)</td>
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<tr>
<td>SqFt (Square Foot)</td>
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<tr>
<td>Sq m (Square Meter)</td>
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<tr>
<td>CuFt (Cubic Foot)</td>
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<td>Cu m (Cubic Meter)</td>
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### VIII. Scheduled Dates Asbestos Removal

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<th>Start:</th>
<th>Complete:</th>
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### VIII. Scheduled Dates of Preparation

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<th>Start:</th>
<th>Complete:</th>
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### VIII. Days of Week: (circle) All Sun Mon Tue Wed Thur Fri Sat Hours of Day:

### VIII. Scheduled Dates Demo/Renovation

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<thead>
<tr>
<th>Start:</th>
<th>Complete:</th>
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NOTIFICATION OF DEMOLITION OR RENOVATION (continued)  

<table>
<thead>
<tr>
<th>II. Description of Planned Demolition or Renovation Work Method(s) to be Used:</th>
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<thead>
<tr>
<th>III. Waste Transporter #1</th>
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<tbody>
<tr>
<td><strong>Name:</strong></td>
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<tr>
<td><strong>Address:</strong></td>
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<td><strong>City:</strong></td>
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<tr>
<td><strong>Contact Person:</strong></td>
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<tr>
<th>III. Waste Transporter #2</th>
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<td><strong>Name:</strong></td>
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<tr>
<td><strong>Address:</strong></td>
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<td><strong>City:</strong></td>
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<td><strong>Contact Person:</strong></td>
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<tr>
<th>XIII. Waste Disposal Site</th>
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<tbody>
<tr>
<td><strong>Name:</strong></td>
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<tr>
<td><strong>Location:</strong></td>
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<td><strong>City:</strong></td>
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<td><strong>Telephone:</strong></td>
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<tr>
<th>XIV. If Demolition Ordered by a Government Agency, Please Identify Below-</th>
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<tbody>
<tr>
<td><strong>Name:</strong></td>
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<tr>
<td><strong>Title:</strong></td>
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<tr>
<td><strong>Authority:</strong></td>
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<tr>
<td><strong>Date of Order (MM/DD/YY):</strong></td>
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<tr>
<th>XV. For Emergency Renovations</th>
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<tbody>
<tr>
<td><strong>Date and Hour of Emergency (MM/DD/YY):</strong></td>
</tr>
<tr>
<td><strong>Description of the Sudden, Unexpected Event:</strong></td>
</tr>
<tr>
<td><strong>Explanation of How the Event Caused Unsafe Conditions or Would Cause Equipment Damage or an Unreasonable Financial Burden:</strong></td>
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<tr>
<th>XVI. Description of Procedures to be Followed in the Event Asbestos is Found or Previously Nonfriable Asbestos Material Becomes Crumbled, Pulverized, or Reduced to Powder.</th>
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<tr>
<th>XVII. Certify That an Individual Trained in the Provisions of This Regulation (40 CFR Part 61, Subpart M) Will be On-Site During the Demolition or Renovation and Evidence That Required Training has Been Accomplished by This Person Will be Available for Inspection During Normal Business Hours. (REQUIRED AFTER NOVEMBER 20, 1991)</th>
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<tr>
<td><strong>(Signature of Owner/Operator) Date</strong></td>
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<tr>
<th>IVIII. I Certify That the Above Information is Correct</th>
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<td><strong>(Signature of Owner/Operator) Date</strong></td>
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Submit Completed Form US. Postal Service / Commercial Delivery Service or Hand Deliver.  
Tennessee Air Pollution Control, 9th Floor, L&C Annex, 401 Church St., Nashville, TN 37243
RESPIRATOR TRAINING CERTIFICATION

PROJECT: __________________________________________
__________________________________________

I hereby certify that I have been trained in the use of each type of respiratory protection equipment required for use on this Project. The training included the following:

1. Explanation of dangers related to misuse.
2. Instruction on putting on, fitting, testing and wearing the respirator.
3. Instruction on inspection, cleaning and maintaining respirator.
4. Instruction on emergency situations.

I further certify that I understand the use, care and inspection of the respirator and have tested and worn the unit.

Social Security No.: ________________________________

Name (print or type): ________________________________

Signed: ____________________________________________

(Submit one copy for each employee prior to starting work)
CERTIFICATE OF ASBESTOS AND LEAD WORKER'S RELEASE

TO: ________________________________

In consideration of my employment by ________________________(Contractor) in connection with the removal and disposal of asbestos, or other work in asbestos-contaminated work areas, and in consideration of the sum of ONE AND NO/100 DOLLAR ($1.00) and other good and valuable consideration in hand paid, at and before the sealing and delivery of these presents, the receipt, sufficiency, and adequacy of which are hereby acknowledged, the undersigned does hereby acknowledge, warrant, represent, covenant, and agree as follows:

1. I acknowledge and understand that I have been or will be employed in connection with removal of, disposal of, or other work in asbestos-contaminated work areas, and I acknowledge that I have been advised of and I understand that dangers inherent in handling asbestos and breathing asbestos dust, including, but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A KNOWN CARCINOGEN AND CAN, THEREFORE CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW UP FOR MANY YEARS, and I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos, and I do hereby covenant not to sue, and to release and forever discharge the Owner, Consultant, Testing Laboratory or consultants employed by the Owner, Consultant, or Testing Laboratory and all of their directors, officers, employees, nominees, personal representatives, affiliates, successors, and assigns for, from and against any and all liability whatsoever, at common law or otherwise, except any rights which I may have under the provision of the applicable workmen's compensation laws. Except as specifically set forth herein I hereby waive and relinquish any and all claims of every nature which I now have or may have or claim to have which are in any way, directly or indirectly, related to exposure to asbestos and asbestos-containing materials.

4. I hereby warrant and represent that I can read the English language, or that I have had someone read this instrument to me, and that I understand the meaning of all the provisions contained herein.

Name (Print): ____________________________________________

Signature: ______________________________________________

Social Security Number: ________________________________
WASTE SHIPMENT RECORD

GENERATOR
1. Work site name and mailing address:
   Owner's name
   Owner's telephone no.:

2. Operator's name and address:
   Operator's telephone no.:

3. Waste disposal site (WDS) name, mailing address, and physical site location:
   WDS telephone no.:

4. Name, and address of responsible agency:

5. Description of materials:

6. Containers:  No.:  Type:

7. Total quantity:  m$^3$ (yd$^3$)

8. Special handling instructions and additional information:

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

   Printed/typed name & title:

   Signature: ________________________________________  Month/Day/Year:

TRANSPORTER
10. Transporter 1 (Acknowledgment of receipt of materials)

    Printed/typed name & title:

    Signature: ________________________________________  Month/Day/Year:
    Address and telephone no.:

11. Transporter 2 (Acknowledgment of receipt of materials)

    Printed/typed name & title:

    Signature: ________________________________________  Month/Day/Year:
    Address and telephone no.:

DISPOSAL SITE
12. Discrepancy indication space:

13. Waste disposal site Owners or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in Item 12.

    Printed/typed name & title:

    Signature: ________________________________________  Month/Day/Year:
AFFIDAVIT OF ASBESTOS FREE MATERIAL

TO:

RE:

PERSONALLY APPEARED before me, the undersigned authority in and for the aforesaid jurisdiction, who, after first being sworn by me, stated on his oath as follows:

1. I am ____________________________ of ____________________________, a corporation duly organized and existing under and by virtue of the laws of ________________.

2. I do hereby certify and attest that replacement materials utilized project are 100% asbestos free.

Name (Print): ____________________________________________
Signature: ____________________________
Social Security Number: ____________________________
State of: ____________________________ County of: ____________________________
Sworn to and subscribed before me this ____________________________ day of ____________________________, 19__________________________
Notary Public: ____________________________
My Commission Expires: ____________________________

END OF SECTION
BID SHEET

ASBESTOS ABATEMENT
BOILER ROOMS

R.T. FISHER ALTERNATIVE    $_________________________

J.W. WISEMAN ELEMENTARY    $_________________________

WATT HARDISON ELEMENTARY    $_________________________

NOTE: Each location will be awarded individually. Bids will be awarded and contracted based on availability of funds. Individual locations may not be contracted due to availability of funds.

THERE WILL BE A PRE-BID MEETING AT 9:00 AM FRIDAY MAY 13, 2011 AT THE FACILITIES BUILDING AT 1500 AIRPORT ROAD GALLATIN, TN
NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Coordinator in the SUPORT SERVICE FACILITY CONFERENCE ROOM, Sumner County Board of Education, 1500 Airport Road Gallatin, TN 37066. They will be received until 9:30 A.M. CDT TUESDAY MAY 24, 2011 for ASBESTOS ABATEMENT BOILER ROOMS, at which time the responses will be opened, taken under advisement and evaluated. BIDS WILL BE POSTED ON www.sumnerschools.org

GENERAL REQUIREMENTS AND CONDITIONS

1. The Sumner County Board of Education reserves the right to accept or reject any and/or all responses in whole or in part, and to waive informalities therein.

2. Any responses received after the scheduled closing time for the receipt for responses will not be considered.

3. If a mistake is discovered after the responses are received, only the Sumner County Board of Education may allow the respondent to withdraw the entire response.

4. Partial payments will not be approved unless justification for such payment can be shown. Terms will be net 30 days.

5. Payment will not be made until the said ASBESTOS ABATEMENT BOILER ROOMS are inspected and approved as meeting all specifications by persons appointed by the Sumner County Board of Education.

6. Responses submitted must be in a sealed envelope and marked on the outside as follows:
   RESPONSE: ASBESTOS ABATEMENT BOILER ROOMS
   DEADLINE: 9:30 A.M. TUESDAY, MAY 24, 2011

7. Facsimile responses will not be considered.

8. If a successful bidder violates any terms of their bid, the contract, school board policy or any law they may be disqualified from bidding for a period of two years for minor violations or longer for major violations. Bids from disqualified bidders will not be accepted during the period of disqualification.

9. Prices quoted on the response (if any) are to be considered firm and binding until the said ASBESTOS ABATEMENT BOILER ROOMS are in the possession of the Sumner County Board of Education.

10. No purchase or contract is authorized or valid until the issuance of a Board Purchase Order in accordance with Board Policy. No Board Employee is authorized to purchase equipment, supplies or services prior to the issuance of such a Purchase Order.

11. Any deviation from these stated terms, specifications and conditions must be coordinated with and approved in writing by the Purchasing Coordinator, Vicky Currey (615) 451-6560.

12. All bids that exceed $25,000 must have the Company Name, License Number, Expiration Date thereof and License Classification of Contractor listed on outside of sealed envelope. As required by State of Tennessee Code Annotated 62-6-119.