

April 15, 2015

## INVITATION TO BID

Project Name: Marshall Municipal Airport Terminal Asbestos Abatement, Marshall, MO

Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), on behalf of the City of Marshall, Missouri (Owner), is pleased to invite you to submit a bid proposal for the removal and abatement of asbestos containing material (ACM) at the Marshall Municipal Airport Terminal (Site) located at 1945 Odell Street in Marshall, Missouri. The abatement activities are being completed as part of the renovation activities associated with the existing airport terminal.

### **Bid Information**

Sealed bids will be received until **2:00 PM, CDT, May 12, 2015**, and then publicly opened and read at **the City Hall of the City of Marshall, Missouri, 214 North Lafayette, Marshall Missouri, 65340**, for furnishing all labor, materials, equipment and performing all work necessary to **Marshall Memorial Airport Terminal Asbestos Abatement**. Prior to submittal, the proposal shall be placed in a sealed opaque envelope and addressed to:

**City of Marshall (Owner)  
214 North Lafayette  
Marshall, Missouri 65340**

The upper left hand corner of the envelope should be marked as follows:

Sealed Bid Proposal  
Bid of NAME OF BIDDER  
For **Marshall Memorial Airport Terminal Asbestos Abatement**  
State Block Grant Project No.: **13-018B-1**  
To be opened at: **2:00 PM, CDT, May 12, 2015**

A prebid conference for this project will be held at **1:30 PM, CDT, April 28, 2015 in the Conference Room at the Marshall Memorial Airport at 1277 South Odell in Marshall, Missouri.**

Bidders must be qualified to perform asbestos abatement activities in compliance with federal, state and local regulations.

### **Project Schedule**

Contract Period - The Contract period begins on the day the successful Bidder receives the unsigned Contract. Bidder agrees to complete project within Sixty (60) calendar days from the receipt of the contract. Fifteen (15) calendar days have been allocated in the construction schedule for receiving the fully executed and complete contract from the Bidder.

Commencement - The Bidder agrees to commence work on this project after the "Notice to Proceed" is issued by the Owner. The "Notice to Proceed" will be issued within seven (7) calendar days after the Owner receives properly prepared and executed Contract documents.

### **Scope of Work**

The following Scope of Work will be completed by Bidder in accordance with the specifications provided in Attachment A. The specifications provided outline the procedures to be used and requirements for the abatement of the ACM described below. The referenced material quantities are considered to be estimates only and Bidder shall verify all quantities.

- Remove friable asbestos from approximately fifteen (15) 3-inch mudded joint.
- Remove friable thermal system insulation from approximately 35 linear feet (lf) of six-inch pipe.
- Remove approximately 356 square feet (sf) of 9-inch by 9-inch green floor tile (non-friable) and associated mastic.
- Remove approximately 50 sf of 9-inch by 9-inch grey floor tile and associated mastic.
- Remove approximately 154 sf of mastic overlain by 12-inch by 12-inch floor tile.
- Remove approximately 5,000 sf of roof decking (non-friable).

For reference, a complete set of bid documents (Project Manual and Drawings) for the Marshall Memorial Airport Terminal Renovation project can be viewed or purchased from Drexel Technologies, [www.drexeltech.com](http://www.drexeltech.com).

### **Bid Document**

The Bid Form is provided as Attachment B. The Bid Form should be filled out completely in black ink and signed by the Bidder. The Bids will be received on a Lump Sum basis with Unit Prices provided for more or less units than actually furnished, as set forth in the Bid Form.

### **Award of Contract**

Owner reserves the absolute and unconditional right to reject any or all Bids for any or no reason, including, without limitation, the right to reject any or all nonconforming, nonresponsive, or conditional Bids and to reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the Bidder is not responsive or the Bidder is subsequently determined to be unqualified or of doubtful financial ability or fails to meet any other standard or criteria decided by Owner. By submitting

the Bid, all Bidders agree that such rejection shall be without liability on the part of the Owner nor shall the Bidder seek any recourse of any kind against the Owner or any other person or entity because of rejection.

The Bidder awarded this project shall be contracted directly to the Owner and will be required to meet the requirements of the Owners contract.

If you have any questions concerning this Bid Request please contact Ms. Cilicia Clarkson at [cclarkson@burnsmcd.com](mailto:cclarkson@burnsmcd.com) .

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**ATTACHMENT A – Drawings & Specifications**

## **ATTACHMENT A**

### **FRIABLE AND NON-FRIABLE ASBESTOS REMOVAL**

#### **PART 1 - GENERAL**

Provisions of the General Conditions and Special Conditions are part of this attachment.

##### **1.1 SCOPE OF WORK**

1. General: The work specified herein shall be the abatement of asbestos containing materials by certified and registered persons who are knowledgeable, qualified and trained in the abatement, handling, and disposal of asbestos containing material, and subsequent cleaning of the affected environment.
2. The Bidder shall furnish all labor, material, equipment, testing, services, permits, insurance, notifications, necessary or required to perform the work in accordance with applicable local, state, and federal regulations for the abatement of asbestos containing materials and for other work as specified in this section or as indicated in associated drawings, sketches, or reports of the work.

All fees required for notification requirements, renotifications, and/or inspections by the regulatory agencies shall be paid by the Bidder. Bulk sample analysis information required by the Department of Natural Resources, U.S. Environmental Protection Agency or local authority having jurisdiction in conjunction with the notification shall also be provided by the Bidder unless provided within this section.

3. The work shall include:
  1. The removal, repair and disposal of friable thermal system asbestos-containing materials consisting but not limited to mudded/insulated pipe fittings, pipe insulation, floor tile and associated mastic, and non-friable roof decking located in the Marshall Municipal Airport Terminal.
  2. Based on available information, the quantities of ACM to be abated are outlined as below.
    - Remove friable asbestos from approximately 15 three-inch mudded joints.
    - Remove friable thermal system insulation from approximately 35 lf of 6-inch pipe.
    - Remove approximately 356 sf of 9-inch by 9-inch green floor tile (non-friable) and associated mastic.
    - Remove approximately 50 sf of 9-inch by 9-inch grey floor tile and associated mastic.
    - Remove approximately 154 sf of mastic overlain by 12-inch by 12-

inch floor tile.

- Remove approximately 5,000 sf of roof decking (non-friable).

These quantities provided are for reference purposes only. Bidder shall be responsible for verifying all quantities.

3. If cutting and patching is to occur at this location or any other location where complete removal cannot be completed or in the event disturbance of asbestos-containing materials is planned:
  - Perform cutting, drilling abrading, or otherwise penetrating an asbestos-containing material in a manner that will minimize the dispersal of asbestos fibers into the air. Provide adequate local exhaust to capture fibers produced by cutting, drilling, or abrading by means of an approved High Efficiency Particulate Absolute (HEPA) filter vacuum. Use specialized equipment such as drills or saws having integral ventilation hoods which are connected to a HEPA vacuum with a flexible hose. Manage and dispose of HEPA filters as contaminated material as specified herein.
  - Thoroughly saturate absorbent surfaces of asbestos-containing material to be penetrated with a penetrating type encapsulant. Allow encapsulant to penetrate to substrate before working on materials.
  - Seal edges of asbestos-containing material exposed by cutting, drilling, or abrading, etc. with two (2) coats of an approved penetrating encapsulant applied in accordance with manufacturers' printed instruction for use of the encapsulant as an asbestos coating.

## **1.2 DEFINITIONS**

1. Abatement - Procedures to decrease or eliminate the source of fiber release from asbestos containing building materials. Includes encapsulation, enclosure, and removal.
2. Adequately Wet - To sufficiently mix or penetrate with liquid to prevent the release of particulate.
3. Aggressive Air Sampling - Sweeping of floors, ceilings and walls and other surfaces with the exhaust of a minimum of one (1) horsepower leaf blower or equivalent immediately prior to air monitoring.
4. Approved Waste Disposal Site - A solid waste disposal area that is authorized by the Department of Natural Resources to receive asbestos containing solid wastes.
5. Asbestos - The asbestiform varieties of serpentine (chrysotile, antigorite), riebeckite (crocidolite), cummingtonite-grunerite (amosite), anthophyllite, and actinolite-tremolite.

6. Asbestos Abatement Supervisor - An individual who directs, controls, or supervises others in asbestos abatement projects.
7. Asbestos Containing Building Material (ACBM) - Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a building.
8. Asbestos Containing Material (ACM) - Any material containing more than 1 percent asbestos by weight.
9. Barrier - Any surface that seals off the work area to inhibit the movement of fibers.
10. Category I Nonfriable ACM - Asbestos-containing packings, gaskets, resilient floor covering and asphalt roofing products containing more than one percent (1%) asbestos as determined using the method specified in 40 CFR part 763, subpart F, Appendix A, section 1, Polarized Light Microscopy.
11. Category II Nonfriable ACM - Any material, excluding category I nonfriable ACM, containing more than one percent (1%) asbestos as determined using the methods specified in 40 CFR part 763, subpart F, Appendix A, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.
12. Containment - Area where asbestos abatement project is conducted. Area must be enclosed either by a glove bag or plastic sheeting barrier.
13. Bidder's Competent Person (Qualified Person) - One who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32 (f); in addition, for Class I, II, III, and IV work, who is specially trained in training courses which meet the criteria of EPA's Model Accreditation Plan (40 CFR Part 763) for project designer or supervisor, or its equivalent.
14. Decontamination Area - Enclosed area adjacent and connected to the regulated area which is used for decontamination of workers, materials, and equipment that are contaminated with asbestos.
15. Demolition - the wrecking or taking out of any load bearing structural member of a facility together with any related handling operations.
16. Disposal Bag - A properly labeled 6 mil. thick leak-tight plastic bag used for transporting asbestos waste from work area to disposal site.

17. Encapsulant (Sealant) - A liquid material which can be applied to asbestos-containing material and which prevents the release of asbestos fibers from the material either by creating a membrane over the surface or by penetrating into the material and binding its components together.
18. Encapsulation - Treatment of asbestos containing materials with an encapsulant.
19. Enclosure - The construction of an airtight, impermeable, permanent barrier around asbestos containing material to control the release of asbestos fibers into the air.
20. Friable Asbestos Material - Any material containing more than one percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763 Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
21. Glove Bag - A manufactured or fabricated device, typically constructed of six (6) mil transparent polyethylene or polyvinyl chloride plastic. This device consist of two (2) inward projecting long sleeves, an internal tool pouch and an attached, labeled receptacle for asbestos waste.
22. Homogeneous Work Site - Continuous areas with the same type of ACM and in which one type of abatement process is performed.
23. Initial Exposure Assessment - An exposure assessment, conducted by a “Competent Person”, and performed immediately before or at the initiation of an asbestos abatement project. If results are below the Permissible Exposure Levels then it is termed a Negative Exposure Assessment.
24. Outside Air - Air outside of the containment.
25. Owner's Air Monitoring Firm - Air Monitoring conducted by a person who is not under the direct control of the person carrying out the asbestos abatement project and who has been selected by the Owner.
26. Owner's Air Sampling Professional - An individual who holds a valid certification from the State of Missouri. The individual shall conduct, oversee, or be responsible for air monitoring of asbestos abatement projects before, during, and after the project has been completed. The air sampling professional must hold a 40 hour AHERA Asbestos Subcontractor/Supervisor Certificate.
27. Owner’s Air Sampling Technician - An individual who has been trained by and is under the supervision of an air sampling professional to do air monitoring before, during, and after the asbestos abatement project. The air sampling technician must hold a 40 hour AHERA Asbestos Subcontractor/Supervisor Certificate.

28. Owner's Certified Industrial Hygienist (C.I.H.) - an Industrial Hygienist, Certified in Comprehensive Practice by the American Board of Industrial Hygiene. The Owner's C.I.H. must also be certified by the Missouri Department of Natural Resources as an air sampling professional and hold a 40 hour AHERA Asbestos Subcontractor/Supervisor Certificate.
29. Personal Monitoring - Sampling of the asbestos fiber concentrations within the breathing zone.
30. Regulated Asbestos Containing Material (RACM) - Friable asbestos material; Category I nonfriable ACM that has become friable; Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.
31. Remove - To take out RACM or facility components that contain or are covered with RACM from any facility.
32. Renovation - Altering a facility or one or more facility components in any way, including the stripping or removal of RACM from a facility component.
33. Repair - The restoration of asbestos material that has been damaged. Repair consists of the application of rewettable glass cloth, canvas, cement or other suitable material. It may also involve filling damaged areas with non-asbestos substitutes and re-encapsulating or painting previously encapsulated materials.
34. Strip - To take off RACM from any part of a facility or facility components.
35. Waste Shipment Record - The shipping document, required to be originated and signed by the waste generator, used to track and substantiate the disposition of asbestos containing waste material.
36. Work Area - A specific isolated area, other than the space enclosed within a glove bag, in which friable asbestos-containing materials is required to be handled. The area is designated as a work area from the time that the area is secured and access restrictions are in place. The area remains designated as a work area until the time that it has been cleaned in accordance with any requirements applicable to the operations conducted.

### **1.3 CODES AND REGULATIONS**

1. General Applicability Of Codes, Regulations and Standards - All applicable codes, regulations, standards, statutes, laws, and rules have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith. Where conflicts arise, the most stringent specification shall apply.
2. Bidder Responsibility - The Bidder shall assume full responsibility and liability for the compliance with all applicable federal, state, and local regulations pertaining to work practices, hauling, disposal and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Bidder is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable federal, state, and local regulations. The Bidder shall hold the Owner/Contractor/Owner's Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health, or other regulations on the part of the Bidder, Bidder's employees, or Bidder's subcontractors.
3. Federal and State requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:
  1. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) including but not limited to:
    1. Title 29, Part 1910, Section 1001 and Part 1926, Section 1101 of the Code of Federal Regulations.
    2. Respiratory Protection, Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
    3. Construction Industry, Title 29. Part 1926, of the Code of Federal Regulations.
    4. Access to Employee Exposure and Medical Records, Title 29, Part 1910, Section 2 of the Code of Federal Regulations.
    5. Hazard Communication, Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
    6. Specifications for Accident Prevention Signs and Tags, Title 29, Part 1910, Section 145 of the Code of Federal Regulations.
  2. U.S. Environmental Protection Agency (EPA) including but not limited to:

1. National Emission Standards for Hazardous Air Pollutants (NESHAPS) Title 40, Part 61, Subpart M, Code of Federal Regulations.
3. U.S. Department of Transportation (DOT) including but not limited to:
  1. Title 49, Part 172, Section 101 of the Code of Federal Regulations.
4. State of Missouri including but not limited to:
  1. H.B. 77, 85th General Assembly.
  2. Missouri Air Conservation Law Chapter 643.
  3. Missouri Department of Natural Resources, Division 10, Chapter 6 of the Code of State Regulations as follows:
    - (1) 10 CSR 10-6.020, Definitions
    - (2) 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants
    - (3) 10 CSR 10-6.230, Administrative Penalties
    - (4) Volume 18, Missouri Register, Page 44
    - (5) 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements

#### **1.4 NOTIFICATIONS**

1. Notifications meeting the requirements of Volume 18, Missouri Register, page 44, shall be completed and sent by the Bidder not less than ten (10) days before the intended starting date of the project. Send notification to the following:
  1. Department of Natural Resources  
Air Pollution Control Program (Asbestos)  
P.O. Box 176  
Jefferson City, Missouri 65102
  2. U.S. Environmental Protection Agency  
Region VII  
Air & Toxic Division, Air Branch  
ATTN: Air Compliance  
726 Minnesota Avenue  
Kansas City, Kansas 66101
  3. Provide a copy to the Contractor/Owner's Representative. Five (5) day notification to the Contractor/Owner's Representative is required on jobs less than the reportable quantity.

4. This project is under the jurisdiction of the Kansas City Air Quality Section. All notifications shall be sent directly to the Kansas City Air Quality Section.

## **1.5 SUBMITTALS**

1. The following will be submitted by Bidder prior to commencement of work for approval by the Owner's Certified Industrial Hygienist and Contractor/Owner's Representative. Owner's C.I.H. will return reviewed copies to Bidder and Contractor/Owner's Representative.
  1. One copy of material safety data sheets (MSDS) for products to be used by the Bidder in the performance of his work. Bidder will also maintain copies of MSDS on-site per OSHA.
  2. One copy of the notifications to, or any correspondence with, the regulatory agencies. Submit a listing of all prior regulatory violations.
2. Friable Abatement:
  1. Current Certificates of training and statement of qualifications for the project asbestos abatement supervisor and the Missouri Asbestos Occupational Certificates, AHERA Certificates, OSHA medical information, and current fit tests for all project personnel. List a summary of project personnel and contact phone numbers.
  2. Name, address, and contact person's name of testing laboratory or laboratories to be utilized analyzing samples for bulk analysis or air samples.
  3. Submit a detailed plan of the procedures proposed for use in complying with requirements of this specification and Volume 18, Missouri Register, page 44, and 29 CFR 1926.1101. Include in the plan the layout and location of barriers, decontamination units, route of ingress and egress for work area, methods used to assure safety of building occupants and visitors, methods used to isolate or closing out of HVAC system, personal air monitoring strategy, method of removal of material, and engineering controls utilized to prevent emissions from the work area.
  4. Provide a disposal plan to detail type of disposal container, method of transportation to disposal site, waste hauler, and disposal site.
  5. Copy of notifications required as part of the emergency notification plan.
3. Non-Friable Abatement:

1. Submit a detailed plan of the procedures proposed to minimize emissions and to prevent the material from becoming friable during removal.
2. Copy of emergency protection plan to be used if the nonfriable material should become friable during removal.
3. Current Certificates of training and statement of qualifications for the "Competent Person".
4. One copy of the Negative Initial Exposure Assessment.
4. Upon completion of the abatement work, the following information shall be submitted to the Contractor/Owner's Representative.
  1. Waste disposal receipts and waste shipment record on all asbestos waste removed from the project Signed Certificate of Visual Inspection.
  2. Bidder's Daily Log and Sign-in Sheets.
5. Upon completion of the abatement work, the following information shall be submitted by the Contractor/Owner's Representative to the Bidder.
  1. Air sampling test results for personal (non-OSHA) and final clearance air samples taken under the supervision of Owner's Certified Industrial Hygienist. Results must be in writing in final report form.
  2. Written certification from the Contractor/Owner's Representative.

## **PART 2 - PRODUCTS - NOT USED**

## **PART 3 - EXECUTION**

### **3.1 SUPERVISION OF ABATEMENT**

1. The Bidder shall designate a competent supervisor subject to the approval of the Owner's C.I.H. and the Contractor/Owner's Representative. The supervisor shall be the Bidder's representative on the project and shall meet the requirements of all applicable regulations and perform the following minimum requirements.
  1. Be Certified by the State of Missouri as an Asbestos Abatement Supervisor, a minimum of one year prior full time experience in asbestos abatement work and a minimum of two years experience as a supervisor, and be qualified as a Competent Person in accordance with OSHA regulation 1926.1101.

2. Be on site and supervise all abatement work in accordance with OSHA and Volume 18, Missouri Register, page 44.
3. Conduct all OSHA required air monitoring.
4. Maintain a daily log on the project documenting events, visitations, problems, equipment failures, accidents, and inspections.
5. Be responsible for implementation of first aid, safety training, respiratory protection, and ensuring all workers are trained in emergency procedures.
6. Be responsible for conducting a visual inspection of the work area prior to a visual inspection by the Owner's Certified Industrial Hygienist. Inspection shall be documented.

### **3.2 INITIAL EXPOSURE ASSESSMENT**

1. The Bidder must conduct a Initial Exposure Assessment (non-friable asbestos) prior to removal of the asbestos material. The Initial Exposure Assessment shall be performed by a "Competent Person" to determine whether the material may be removed and maintained in a nonfriable condition. If the material cannot be removed without becoming friable then the Bidder shall comply with the requirements in this specification at no additional cost to the Owner.
2. The method of removal is the Bidder's option. However, in the event of any of the following:
  1. Visible emissions are observed
  2. Sanding, grinding, cutting, or abrading of the material
  3. Air samples from immediately outside the enclosure exceed 0.1 f/cc

The Bidder shall immediately stop work, implement corrective work practices, make any necessary notifications to all regulatory agencies of the changes in work practices and material conditions, and comply with the requirements as set forth in this specification.

### **3.3 WORKER PROTECTION & TRAINING**

1. The Bidder shall be responsible for providing his employees with proper respiratory protection, respiratory training, written respirator program, medical examinations, maintaining medical records, and protective clothing and equipment to comply with OSHA requirements.

2. The Bidder shall be responsible for all testing and costs incurred for complying with requirements of OSHA regulations for Personal Air Sampling.
3. All workers shall be trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and protective measures.
4. All workers shall hold valid diplomas as accredited Asbestos Abatement Workers as required by 10 CSR 10-6.250.

### **3.4 INDEPENDENT TESTING LABORATORY**

1. Testing Laboratories utilized by the Bidder for sample analysis during the project shall meet the following minimum requirements and be approved by the Contractor/Owner's Representative. This information shall be submitted to the Contractor/Owner's Representative for review.
  1. All air monitoring samples shall be analyzed by a testing laboratory accredited by the American Industrial Hygiene Association (AIHA) or by an individual who is currently on the Asbestos Analyst Registry.
  2. All bulk samples shall be analyzed by a testing laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

### **3.5 CONTRACTOR'S AIR SAMPLING PROFESSIONAL**

1. It will be the Contractor's/Owner's Representative's responsibility to hire or provide an Air Sampling Professional. The Air Sampling Professional & Industrial Hygienist will also be required to perform the following duties as a minimum:
  1. Approval of the Bidder's work plan and methods of abatement to meet regulatory requirements and ensure the health and safety of University faculty, staff, and students.
  2. Verify that the Bidder is satisfactorily performing personal air monitoring as directed by OSHA regulations.
  3. Visual inspection of the work area and final clearance air monitoring.
  4. Certify in writing that the Bidder's procedures, methods and practices were, to the best of my knowledge and belief, in compliance with current EPA, OSHA, State and/or applicable local regulations and that the work areas meet the requirements for final clearance testing and account of any known deviations.

5. Issue final air clearance.

### **3.6 EMERGENCY PROTECTION PLAN**

1. The Bidder shall be responsible for developing a written Emergency Protection Plan and shall maintain this plan on site. The plan shall include considerations of asbestos leakage from the site, fire, explosion, toxic atmospheres, electrical hazards, slips, falls, and heat related injury. This plan shall be coordinated with Contractor's/Owner's Representatives Project Safety and Health Program. All employees shall be instructed and trained in the procedures.
2. Emergency protection plan shall also include written notification of police, fire and medical personnel of the planned abatement activities, work schedule, and layout of work area, particularly barriers that may affect response capabilities.

### **3.7 LOCAL AREA PROTECTION & SITE SECURITY**

1. The Bidder shall be responsible for all areas of the building used by him and/or others in the performance of the work. Bidder shall exert full control over the actions of all employees and other persons with respect to the use and preservation of the existing building, except such controls as may be specifically reserved to the Owner and Contractor/Owner's Representative.
2. Bidder has the right to exclude from the work area all persons who have no purpose related to the work or its inspection, and shall require all persons in the work area to observe the same regulations required of Bidder's employees.
3. The Bidder shall have control of site security during abatement operations in order to protect work environment and equipment. Bidder shall have the Owner's/Contractor's assistance in notifying building occupants of impending activity and enforcement of restricted access by Owner's and Contractor's/Owner's Representatives employees.
4. The Bidder shall keep a minimum of two 10 lbs. type ABC fire extinguishers on site. One shall be maintained outside the work area and one inside the work area. The employees shall be trained in the operation of extinguishers.
5. Where areas cannot be isolated by existing walls and doors from employees, clients, or the public, barriers must be constructed of ½" plywood and 2"x4" framing 16" o.c. to isolate the area. The barriers must be installed in such a manner to prevent damage to existing walls, floors, or ceilings. Barrier may have a lockable door.
6. The Bidder shall maintain the work area free from rubbish, debris, and dirt and keep a clean, safe working area.

7. The Bidder shall provide warning signage around the regulated area as required by OSHA.
8. The Bidder shall isolate any and all air supply and returns to the abatement space as required by OSHA. Bidder shall coordinate with the Contractor/Owner's Representative.
9. The Bidder shall keep all areas where adhesive stripper is in use (such as mastic removal) under negative pressure and exhausted to the outside ambient air.

### **3.8 FINAL CLEARANCE REQUIREMENTS (FRIABLE ASBESTOS)**

1. Upon completion of the abatement work, the supervisor shall perform a visual inspection of the work area. If satisfactory, the supervisor shall then contact Contractor/Owner's Representative and request the air sampling technician to perform a visual inspection. When the air sampling technician feels the area is ready based on the results of their visual inspection, the Bidder shall apply a lockdown encapsulant. Following application of lockdown encapsulant, the air sampling technician shall perform the final clearance sampling for airborne fiber concentrations.
2. The air sampling technician or designee will perform final clearance testing per the following requirements:
  1. Aggressive sampling shall be required for all areas where removal has taken place with the exception of glove bag projects where nonaggressive sampling is permitted.
  2. P.C.M. samples analyzed on site shall be counted by an accredited registered microscopist.
  3. For areas specifically specified for clearance by Transmission Electron Microscopy, the method shall be NIOSH 7402.
3. Any work areas failing to meet the clearance requirements of this section shall be recleaned and retested at the Bidder's expense until satisfactory levels are obtained.
4. The Owner's C.I.H. shall provide a report of the air monitoring activities to the Bidder after the final clearance testing.

### **3.9 REESTABLISHMENT OF THE WORK AREA AND SYSTEMS**

1. Reestablishment of the work area shall only occur after the Bidder has received final clearance in writing from the air sampling technician and approval of Contractor/Owner's Representative.

2. All damage to finishes, equipment, and/or the area affected by the abatement shall be repaired by the Bidder to equal or better condition as it was prior to the work, at no cost to the Contractor/Owner's Representative or Owner.

### **3.10 WASTE DISPOSAL**

1. All asbestos containing waste and/or asbestos contaminated debris shall as a minimum be double bagged in approved 6 mil. disposal bags. Each bag shall be tagged to meet requirements of NESHAPS with an asbestos caution label and a source identification label.
2. Transportation shall meet the requirements of all regulatory agencies for asbestos-containing materials and shall be transported in an enclosed truck.
3. The waste disposal site shall be approved by the Missouri Department of Natural Resources for asbestos disposal. A chain of custody letter/waste shipment record and disposal receipts shall be provided to the Owner for all materials disposed of.

### **3.11 DRAWINGS**

1. Drawings, when provided, are not intended to be used for anything but a "reference" to the work area. Information is not specific to quantities or to exact location of ACM unless explicitly noted. Bidder will be required to field verify the conditions and quantities.

### **3.12 REPORTS**

1. Reports, when provided, are intended to be used as a basis for the type and composition of the asbestos present for both bidding purposes and for the information required for the notifications to the governing agencies.

END OF SECTION

**ATTACHMENT B – Bid Form**

**BID SHEET**  
**Marshall Municipal Airport Terminal Asbestos Abatement**

A. Base Bid:

The Bidder agrees to furnish all labor, materials, tools, and equipment required for the abatement and disposal of all asbestos containing materials (ACM) as described in the Specifications (Attachment A) Scope of Work for the sum of: \_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_).

B. Unit Prices:

- (1) For changing specified quantities of work from those indicated by the Scope of Work, upon written instructions of Owner's Representative, the following Unit Prices shall prevail in accordance with General Conditions.
- (2) The following Unit Prices include all labor, overhead and profit, materials, equipment, appliances, bailing, shoring, shoring removal, etc., to cover all work.
- (3) The following Unit Prices are required where applicable to particular Base Bid and/or Alternate being submitted.
- (4) Only a single Unit Price shall be given and it shall apply for either MORE or LESS work than that indicated in the Specifications (Attachment A) as indicated to be included in Base Bid. In the event that more or less units than so indicated is actually furnished, Change Orders will be issued for increased or decreased amounts as approved by the Owner's Representative.
- (5) Bidder understands that the Owner will not be liable for any Unit Price or any amount in excess of Base Bid and any Alternate(s) accepted at time of award of Contract, except as expressed in written Change Orders duly executed and delivered by Owner's Representative.
- (6) Unit Prices
  - a) Abatement and disposal of mudded joint fittings containing friable thermal system insulation (TSI)

\$/joint
  - b) Abatement and disposal of linear feet of six-inch pipe TSI

\$/lf
  - c) Abatement and disposal of nine-inch by nine-inch non-friable, green floor tile and associated mastic.

\$/sf
  - d) Abatement and disposal of approximately 50 square feet (sf) of nine-inch by nine-inch non-friable, grey floor tile and associated mastic.

\$/sf
  - e) Abatement and disposal of mastic overlain by twelve-inch by twelve-inch floor tile

\$/sf
  - f) Abatement and disposal of non-friable roof decking.

\$/sf

C. Bidder agrees that the work outlined in the Scope of Work can be completed in \_\_\_\_ working days.

**Agreed and Acknowledged:**

\_\_\_\_\_  
Name of Bidder

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

Name:\_\_\_\_\_

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

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