



Maryland  
Transportation  
Authority

SPECIAL PROVISIONS

Contract No. MA 2372-000-002

Page 1 of 16

**SP 1-1 PROJECT DESCRIPTION**

CONTRACT NO.: MA 2372-000-002

TITLE: On-Call Machinery, Electrical, and Structural Repairs and Modifications

FACILITY: Baltimore Harbor Tunnel Thruway, Fort McHenry Tunnel, Francis Scott Key Bridge, John F. Kennedy Memorial Highway, Governor Harry W. Nice Memorial Bridge, Thomas J. Hatem Memorial Bridge, ICC, Point Breeze Properties, and William Preston Lane, Jr. Memorial Bridge

COUNTY: Anne Arundel, Baltimore, Cecil, Charles, Harford, Howard, Montgomery & Prince George's, Queen Anne's Counties, and Baltimore City

ADVERTISED: **October 20, 2009**

PRE-BID MEETING: **November 2, 2009 at 9:00 a.m.** in the Conference Room at the Maryland Transportation Authority, 303 Authority Drive, FSK Administration Building, Baltimore, MD 21222.

PROJECT CONTACT: Project Manager: Mr. Abey Tamrat at (410) 537-7822  
Contract Administration: Ms. Maggie Johnson at (410) 537-7807

BIDS DUE: **12 Noon, November 19, 2009**, in the Bid Box on the 1<sup>st</sup> floor of the Maryland Transportation Authority, Engineering/Finance Building, 300 Authority Drive, Baltimore, MD 21222.

CLASSIFICATION: Class - E (\$2,500,001 to \$5,000,000)

CONTRACT TIME: One Thousand Four Hundred Forty (1440) Calendar Days

LIQUIDATED DAMAGES: N/A

MINIMUM MBE GOALS: Overall 18%  
No Subgoals

BID DOCUMENTS: **\$25.00** Bid documents can be purchased between 7:30 a.m. and 3:30 p.m., Mondays, Wednesdays, Thursdays and Fridays and between 10:00 a.m. and 4:00 p.m. on Tuesdays at the Ticket Office located at the Francis Scott Key Bridge, Maryland Transportation Authority, Administration Building, 303 Authority Drive, Baltimore, MD 21222.



The work to be performed under this contract is located in the following Maryland Transportation Authority (“Authority”) facilities:

- a) John F. Kennedy Memorial Highway (I-95 in Harford, Cecil and Baltimore Counties);
- b) Thomas J. Hatem Memorial Bridge (U.S. 40 in Harford and Cecil Counties);
- c) Fort McHenry Tunnel (I-95 and I-395 in Baltimore City);
- d) Baltimore Harbor Tunnel Thruway (I-895 in Baltimore City and Baltimore, Anne Arundel and Howard Counties);
- e) Francis Scott Key Bridge Facility (I-695 in Baltimore City and Baltimore and Anne Arundel County);
- f) William Preston Lane Jr. Memorial Bridge (Anne Arundel and Queen Anne Counties);
- g) Intercounty Connector (Montgomery County & Prince George’s County);
- h) Governor Harry W. Nice Memorial Bridge (Charles County); and
- i) The Authority’s Point Breeze Property.

The scope of work includes providing labor, materials, equipment, machine shop and fabrication shop work, etc., necessary to perform electrical, mechanical and structural repairs, maintenance, and upgrades on Authority’s draw bridges, I-695 over Curtis Creek Bridges, at the Ventilation Buildings of both Baltimore Harbor Tunnel & Fort McHenry Tunnel. In addition, this work may be required on any portion (bridge, tunnel, highway, building, and all appurtenances) of any of the Authorities facilities. The work may include but not be limited to the following:

**1) Francis Scott Key Bridge Facility (I-695 over Curtis Creek Bridges):**

- (a) Trouble shooting and repairing mechanical and electrical malfunctions in movable span bridges.
- (b) Trouble shooting and repairing electrical components and control systems for movable span bridges.
- (c) Working in conjunction with engineering consultants, fabricators, and suppliers to design and construct major and complex upgrades to electrical, mechanical, and structural drawbridge components.
- (d) Manufacturing or pouring babbitt bearings in the shop and in the field.
- (e) Balancing movable bridge spans.
- (f) Millwright work on the bridge machinery.
- (g) Rebuilding components of movable bridge spans and supports.



- (h) Shop fabrication of new movable span components.
- (i) Machine shop manufacture of machinery components.
- (j) Setting limit switches.
- (k) Adjustment and repair of center lock and tail lock mechanisms.
- (l) Manufacture or repair of brake parts.
- (m) Manufacture or repair of gate machinery.
- (n) Assisting Engineering during inspection. This may require opening of differentials, removal of bearing caps, cleaning bearings, and opening grease groves
- (o) Scheduled greasing of mechanical components
- (p) Remove and replace all or portions of concrete in superstructure.
- (q) Repair or replacement of damaged and deteriorated reinforcement or structural areas.
- (r) Cleaning and painting of repaired areas.
- (s) Remove, repair and replace damaged grid deck, railing or balustrades. The Contractor may be directed to remove balustrade and replace with traffic barrier W beam.
- (t) Repair piers, pier caps, or abutments.
- (u) Replacement of accident damaged steel beams.
- (v) Deck repairs and other miscellaneous structural repairs on both bridges

**2) Baltimore Harbor Tunnel & Fort McHenry Tunnel Facilities (Ventilation Buildings):**

- a) Manufacture or repair of lighting, heating and security systems.
- b) Manufacture or repair of tunnel SCADA systems.
- c) Manufacture or repair of pumping equipment.
- d) Manufacture or repair of high, medium, and low voltage switchgear systems.
- e) Setting or adjusting sensors.
- f) Shop fabrication of tunnel ventilation fan and pumping machinery
- g) Millwright work on tunnel ventilation fan and pumping machinery.
- h) Working in conjunction with engineering consultants, fabricators, and suppliers to design and construct major and complex upgrades to electrical, mechanical, and structural tunnel ventilation and pumping equipment.



- i) Troubleshooting and repairing electrical components and control systems for tunnel ventilation fans.
- j) Troubleshooting and repairing mechanical and electrical malfunctions in tunnel ventilation and pumping systems.
- k) Replacement of lighting fixtures, and electronic signage within tunnel and adjoining pathways and rooms
- l) Replacement of ceiling panels and support beams, i.e. after they are damaged in a fire or other accident.
- m) Replacement of wall tiles within tunnels.
- n) Replacement/Repair of handrails, doors and other miscellaneous items within tunnel and adjoining pathways and rooms
- o) Concrete repairs to roadway, within ventilation ducts, and in adjacent pathways, pumping rooms and fan rooms.
- p) Cleaning and painting steel. This includes structural steel as well as steel frames for fan housings and machinery supports.
- q) Miscellaneous structural repairs to ceiling panels and hangers in tunnel.

Portions of this work may have to be performed on an emergency basis rather than as a routine project. If an emergency situation arises, the Contractor hereby agrees to give the emergency situation first priority until the emergency is resolved, even though this may be at the expense of other tasks for which the Contractor is responsible.

The Engineer will provide a list and priority of projects to the Contractor on a monthly basis. Within two (2) weeks of receiving an assignment, the Contractor shall supply the following information:

- (a) The estimated time to receive all materials.
- (b) The estimated number of work days to complete the project.
- (c) The estimated cost to complete the project. This estimated cost shall utilize the appropriate bid prices established in this Contract. The estimate shall be itemized to include all anticipated labor, equipment, materials, and subcontractors.
- (d) When requested by the Engineer, a lump sum cost proposal shall be submitted that will include all labor, materials, equipment, and subcontractors required to complete the project. The Administration may request a lump sum estimate for a specific project from multiple contractors under this and similar contracts to determine the lowest lump sum bid. The lowest responsible lump sum bidder will be awarded that specific project. If an agreement on prices cannot be reached, the work will be performed using the prices for the bid items included in this Contract.



The preparation of these estimates and proposals will not be measured, but the cost will be incidental to other pertinent items specified in the Contract Documents.

The Contractor shall furnish to the Engineer the names, addresses, phone numbers, pager numbers, etc. of at least two individuals who can be contacted by the Engineer and who are authorized to provide construction services in the event of an emergency as determined by the Engineer. One of these individuals shall be available at all times to be contacted within a maximum time period of two (2) hours.

The Contractor shall be onsite if requested within four (4) hours of initial notification, particularly for such an emergency. Failure to comply with this requirement will result in a penalty of \$50.00/min. from initial notification.

The Authority reserves the right to terminate the Contract for any reason, including its own convenience, by giving prior written notice to the Contractor. Work shall be performed as directed by the Engineer and may not be on a continual basis.

The Contractor is alerted to the fact that more than one crew may be required at one time. Routine maintenance, such as required greasings, and emergency troubleshooting and repairs shall be handled by the Contractor without disruption to other projects already underway under this project. Crew size and composition will vary depending on the needs of each specific project.

The Contractor is responsible for proper disposal of waste materials in accordance with local, state, and federal regulations.

### **SP 1-2 SPECIFICATIONS**

All work on this project shall conform to the Maryland Department of Transportation, State Highway Administration's Specifications entitled, "Standard Specifications for Construction and Materials" dated July 2008, revisions thereof, or additions thereto, and the Special Provisions included in this Invitation for Bids.

### **SP 1-3 ORIGINAL FACILITY PLANS AND SITE VISITS**

The original facility plans are on file at the Engineering/Finance Building of the Francis Scott Key Bridge and will be made available for inspection to prospective bidders. Parties interested in viewing the plans should contact Mr. Abey Tamrat at (410) 537-7822. Parties interested in visiting the site should contact the following:

- a) John F. Kennedy Memorial Highway and Thomas J. Hatem Memorial Bridge – Mr. John Lohmeyer at (410)-537-1107.
- b) Fort McHenry Tunnel - Mr. Mike Darago at (410)-537-1269.
- c) Baltimore Harbor Tunnel Thruway - Mr. John Monk at (410)-537-1315.
- d) Francis Scott Key Bridge – Mr. Charles Raycob at (410)-537-7513.
- e) Wm. Preston Lane Jr. Memorial Bridge, Mr. Don Watts at (410)-537-6651.