

**REMOVE AND REPLACE HVAC DUCTWORK INSULATION AT THE H-3
TUNNEL OPERATIONS CENTER
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
OAHU DISTRICT, TUNNEL OPERATIONS SECTION**

Background:

Constructed on the Island of Oahu and opened for public use on December 12, 1997. Interstate Route H-3 and the Tetsuo Harano Tunnels which passes through the Koolau Mountain Range are the longest found in State of Hawaii. The Honolulu-bound tunnel measures at 5,165 feet long and the Kaneohe-bound tunnel at 4,890 feet long. The Tunnel Operations Center (TOC) is located between the Halawa Portal Buildings and is partially served by a 15-ton air handling unit (TOC-ACU-10).

Overview:

In several areas, TOC-ACU-10's supply air ductwork insulation is in need of replacement and repair. The primary area of replacement is within the mechanical room of TOC, located on the 3rd floor. Branch ductwork insulation will also need to be removed and replaced in the restrooms. Additionally, the supply air diffusers in said restrooms are to be insulated.

Scope of Work:

- a) Contractor shall provide all labor, supervision, equipment, materials, tools, supplies and all incidentals necessary for removal and replacement of approximately 70 linear feet of ductwork within the mechanical room of TOC and 40 linear feet of branch ductwork within the restrooms of TOC. Refer to attached as-built drawings for reference.
- b) Contractor shall provide all labor, supervision, equipment, materials, tools, supplies and all incidentals necessary for the application of insulation to supply air diffusers within TOC Men's and Women's restrooms. Refer to attached as-built drawings for reference.
- c) Existing ductwork is typically sheet metal duct with fibrous glass wrapped insulation, with flex duct connections to diffusers. New insulation shall match existing, minimum 2" thickness, R=6.0 minimum installed value.

Contractor Responsibilities:

- a) Contractor shall have a valid contractor's license to conduct business in Hawaii and shall provide proof of qualification to perform the specified work with a minimum of five (5) years' experience.
- b) Subcontractors are not authorized to work on this contract and shall not perform any work under the awarded vendor unless they are specifically listed and declared in the bid.

The awarded Contractor must provide the business name and address of each subcontractor that they propose to use and the nature of work that will be performed. All subcontractors that are subsequently declared in the bid are therefore subject to meet the same qualification and performance requirements as the awarded vendor.

- c) Contractor shall become familiar with all the job requirements prior to the submission of proposal. Change orders will not be accepted thereafter.
- d) Contractor is fully responsible for initiating any site visits that they deem necessary in gathering measurements and other technical data to ascertain the requirements in fulfilling the SOW. Site visits can be arraigned during normal working hours by calling H-3 Tunnel Engineer, Joel Yago @ 808-485-6261 office, or by e-mail at joel.a.yago@hawaii.gov.
- e) Contractor shall be responsible for cleaning the work area daily and for the haul-away and proper disposal of all discarded materials associated with the job. Contractor shall be responsible for the proper and lawful disposal of all other incidental debris produced from this job, per typical construction waste management practice.
- f) Contractor shall schedule work times in consultation with the DOT. Prior to entering the Tunnel Facility, the Contractor shall notify Tunnel Operations Control (TOC) at 485-6200 and specify the number of vehicles arriving at the H-3 Tunnels.
- g) Contractor shall be responsible for meeting all required Federal, State and County laws including all OSHA and HIOSH requirements pertaining to personnel safety for the work involved.
- h) Contractor shall be held accountable for any damage to any structures, walls, equipment, or other fixture resulting from work attached to this project. Property damaged by the action of the Contractor, or his employees shall be replaced or repaired to the satisfaction of the State by the Contractor at their own expense.
- i) All water sources located at the H-3 Tunnels are considered non-potable and unfit for human consumption. The Contractor shall furnish and have on hand sufficient fresh drinking water for their personnel daily. Lavatory facilities shall be provided by the contractor during the shift at a location meeting OSHA and HIOSH requirements.
- j) All work under this contract shall be in full compliance with the Hawaii Standard Specifications for Road and Bridge Construction, 2005, Highways Division, Department of Transportation, including any amendments. To review the standard specifications, log on to; <http://hidot.hawaii.gov/highways/s2005-standard-specifications/>

Workdays and Hours:

- a) This project shall be scheduled with all dates to be agreed upon by the DOT and the awarded vendor. Work shall be performed during normal working hours.

Indemnification, Performance Bond and State Compliance Requirements:

- a) **Indemnification.** The Contractor shall indemnify and hold harmless the State of Hawaii, the contracting agency, and their officers, employees, and agents from and against all liability, loss, damage, cost, and expense, including all reasonable attorney's fees and all claims, suits and demands therefore, arising out or resulting from the negligent, reckless, intentional or wrongful acts, errors or omissions of the Contractor or the Contractor's employees, officers, agents or subcontractors under this Contract. The provisions of this paragraph shall remain in full force and effect notwithstanding the expiration or early termination of this Contract. The insurance binder naming the State as an additional insured shall be submitted upon award of the Contract.
- b) **Performance Bond.** As a construction project defined in Hawaii Revised Statutes, section 103D, part 104 and 305, If the price of the contract exceeds a total of \$50,000, the Contractor shall submit a performance bond, executed by a surety company authorized to do business in the State of Hawaii, in an amount equal to one hundred percent of the price specified in the Contract. The performance bond shall be submitted to the State upon award of the Contract.
- c) Contractor is responsible for compliance with all laws, rules, regulations, and standards applicable to the safe performance of the work to protect workers and members of the general public. The Contractor is responsible for all aspects of the safety and health programs required by the Hawaii Administrative Rules §12-110 and Hawaii Revised Statute §396. The Contractor is responsible for the work site and is the controlling, exposing, correcting as well as the creating employer for the purposes of this SOW. The State of Hawaii DOT is not liable as the controlling employer for purposes of workplace and work practice safety and health compliance.
- d) The awarded company for this job must comply with the requirements of the State of Hawaii's vendor compliance requirements, as issued by the State Procurement Office through their Hawaii Compliance Express (HCE) website.

State DOT Will Provide:

- a) A purchase order will be issued by the State of Hawaii and shall serve as the official "Notice To Proceed".
- b) The DOT shall provide the names and contact phone numbers of the H-3 Engineer or his duly authorized representative, who will coordinate work with the Contractor.

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