



Board Report

File #: 2016-1004, File Type: Contract

Agenda Number: 50.

SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE MAY 18, 2017

SUBJECT: CONSULTANT BENCH FOR RAIL VEHICLE & SYSTEMS ENGINEERING SUPPORT

ACTION: AWARD BENCH CONTRACT

RECOMMENDATION

AUTHORIZE the Chief Executive Officer to:

- A. AWARD Bench Contract No.PS37755 to consultant firms CH2M Hill, Inc., LTK Engineering Services, Mott McDonald, LLC, WSP/Parsons Brinkerhoff, and STV Inc., to establish a general account for consultant support services that will be utilized for **Rail Vehicle and Rail Systems Engineering Consultant Services**, for an amount not-to-exceed \$8,027,100, subject to resolution of protest, if any; and
- B. EXECUTE Task Work Orders within the approved total not-to-exceed amount of the Contract.

ISSUE

Metro requires as-needed consultant support services from qualified firms to support Metro Rail Vehicle and Systems Engineering capital and operating projects.

In April 2008, the Board authorized the award of Bench Contract No.OP39602112 in the total amount of \$20,000,000 to five (5) qualified consulting firms. These firms provided Metro with professional engineering and project management support to develop technical specifications, independent cost estimates and to provide oversight for the procurement and installation of our rail fleet systems and equipment. This bench contract expired in March 2017.

DISCUSSION

The bench Contract permits Metro to supplement internal resources by having available consulting firms with a wide range of specialized engineering, technical and program management experience and expertise.

The consulting firms that will form the vehicle bench have the demonstrated depth and breadth of technical and engineering experience and capacity to support Metro with the anticipated tasks and

projects. On an as-needed basis Statements of Work will be developed, defining the type and level of support required for specific tasks and projects. Consultants on the vehicle bench will be eligible to bid for the work that they were approved under each Disciplines. This bench Contract consists of three disciplines: A) Support services for rail vehicle acquisition, overhauls and system compatibility, B) Support services for fleet reliability, operating rail vehicles, systems, and facilities, and C) Support services for traction power, rail vehicles, systems and facilities. Work will then be assigned to the successful consultant firm through task orders.

Subject to Metro's direction, the consultant shall apply appropriate engineering, technical and program management support services and resources to facilitate the timely execution of the associated deliverables for Metro's Rail Vehicle and Systems Engineering capital and operating projects.

Potential work under this bench Contract includes, but is not limited to: Specification development and review; condition based assessments of exiting fleets; car specific failure investigations; vehicle/MOC interface failure investigations; fleet reliability studies; review and development of shop maintenance practices; conduct vendor visits and audits; verification and validation of hardware and software modifications; development and testing of prototypes; development and testing of existing train control system and train control track circuits; and assist with developing specifications and procedures for TWC replacement, signal system rehabilitation, and line emergency trip system replacement.

The Diversity & Economic Opportunity Department (DEOD) has completed its evaluation of the Proposers' commitment to meet the overall twenty percent (20%) SBE/DVBE or DBE goal established for this project. The qualified firms, CH2M Hill, Inc., LTK Engineering Services, Mott McDonald, LLC, WSP/Parsons Brinkerhoff, and STV Inc., have committed to meeting the 20% goal.

DETERMINATION OF SAFETY IMPACT

The required consultant support services will contribute to maintaining the rail system in a State of Good Repair which is essential in providing safe and reliable service for the Metro rail system riders.

FINANCIAL IMPACT

As the support services under the bench Contract are intended to support capital and operations projects that are already funded, the funds for these expenses are included in the FY17 Operating budget and Life-of-Project budget of each individual project that these consultants will be supporting. As specific Rail Vehicle and Systems Engineering services needs arise, task orders will be issued and funded from the associated project budgets, upon approval by the responsible Project Manager. \$400,000 is included in the FY17 budget in Cost Center 3043, in account 50316 - Professional Services under various projects. Since this a multi-year contract, the cost center manager and project manager will be responsible to ensure that funding is budgeted in future years.

ALTERNATIVES CONSIDERED

Staff has considered using in-house Metro resources to perform this work; however, this approach is

not recommended as Metro does not have sufficient resources and subject matter experts available to perform this work.

The Board of Directors may choose not to authorize the Contract award for this project; however, this alternative is not recommended as this Bench Contract is critical to facilitate the timely execution and associated deliverables of Metro's Rail Vehicle Acquisition, Rail Systems Engineering and Rail Vehicle Engineering capital and operating projects.

NEXT STEPS

Upon Board approval, staff will continue to competitively award individual task orders, on an as-needed basis, for engineering, technical, and program management support services.

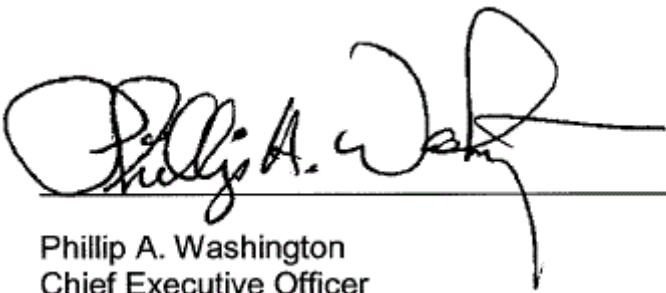
ATTACHMENTS

Attachment A - Procurement Summary

Attachment B - DEOD Summary

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