



Midpeninsula Regional
Open Space District

R-16-137
Meeting 16-26
October 26, 2016

AGENDA ITEM 6

AGENDA ITEM

Award of Contract to Butano Geotechnical Engineers, Inc., for Geotechnical Engineering Quality Control Observation and Testing Services in support of the Mount Umunhum Road Rehabilitation Project (Project).

GENERAL MANAGER'S RECOMMENDATIONS

1. Authorize the General Manager to enter into a professional services contract with Butano Geotechnical Engineers, Inc., in the amount of \$79,890 to perform third party quality control geotechnical observation and testing in support of the Mount Umunhum Road Rehabilitation Project at Sierra Azul Open Space Preserve.
2. Authorize a 10% contract contingency in the amount of \$7,989 to be reserved for additional investigation, observation, and testing due to changes in construction scope or unforeseen conditions, for a not-to-exceed total contract amount of \$87,879.

SUMMARY

A third-party geotechnical engineer is required to provide quality control services for work associated with the Mount Umunhum Road Rehabilitation Project. On August 10, 2016, the Board awarded a contract to O.C. Jones & Sons (O.C. Jones) to construct the Mount Umunhum Road Rehabilitation Project (R-16-101). Specialized third-party personnel and equipment are necessary to provide onsite construction observation and compaction testing. The Project is currently underway and anticipated to finish in the Summer of 2017. The amount of testing and observation required for the Project requires the services of a readily available local firm. Butano Geotechnical Engineers, Inc., (Butano) is currently under a separate, smaller contract (\$14,770) with the District providing geotechnical sampling, testing, and reporting services for two design elements at six specific sites on Mt Umunhum Road. Butano has the availability and experience to provide the additional required construction observation and inspection services for the Project. Therefore, the General Manager recommends awarding the contract to Butano for a total not-to-exceed amount of \$87,879, which includes a 10% contingency in the amount of \$7,989. Sufficient funds are included in the Fiscal Year 2016-17 Budget.

MEASURE AA

The 5-year Measure AA (MAA) Project List approved by the Board at the October 29, 2014 meeting includes the voter-approved Priority Action 23 (Portfolio 23) that encompasses all of the Mt. Umunhum Public Access and Interpretation Projects, in the amount of \$27.972 Million. This contract furthers the goals of Portfolio 23 and Project #23-6 by providing third-party geotechnical quality control observation and testing of the construction work to ensure roadway

upgrades and safety improvements are installed as required by the Project plans and specifications.

BACKGROUND

In October, 2012, the Board approved the Mount Umunhum Environmental Restoration and Public Access Project (R-12-104), which includes new visitor amenities at the summit and roadway upgrades and safety improvements to Mount Umunhum Road to accommodate public vehicular use to allow all visitors, regardless of physical ability, to reach the summit. Access to the Mount Umunhum summit was identified as a priority action during the District's Vision Plan process, and Measure AA funding was included for roadway improvements under Portfolio #23.

On July 8, 2015, the District hired the civil engineering firm Pavement Engineering Inc., (PEI) to develop the construction design for the recommended upgrades to Mount Umunhum Road (R-15-103). On May 25, 2016, the Board approved the Project's Design and Bid Plan Set (R-16-62), which was developed by PEI and peer-reviewed by a second civil firm, Sandis. The plan set was released for bid on June 10, 2016, and on August 10, 2016, the Board awarded a contract to O.C. Jones (R-16-101) to complete the roadway upgrades and safety improvements.

DISCUSSION

The Project scope of work includes a number of technical items with detailed fabrication and installation procedures and requirements. A third-party geotechnical engineering firm is required to perform quality control on these technical aspects, including compaction testing for subsurface and paving work, moisture testing and temperature confirmation of roadway rehabilitation and hot-mix asphalt overlay work, and observation and testing of all asphalt pulverizations and mixes. Additional quality control work includes general observation and documentation of grading, fabrication, installation, and demolition.

The Board's "Public Contract Bidding, Vendor, and Professional Consultant Selection, and Purchasing Policy," and its corresponding Administrative policy provides:

"Occasionally, ... supplies, material, equipment, or services are of a unique type, are of a proprietary nature, or are otherwise of such a specific design... or are specifically necessary for purposes of maintaining cost effective system consistency, so as to be available from only one source."

As mentioned above, Butano is currently under a separate contract with the District providing geotechnical sampling, testing, and reporting services at six specific locations on Mt Umunhum Road. In accordance with District policy, given Butano's familiarity with the Project, and the upcoming urgency for the services now that the Project is underway, the General Manager recommends entering into this contract with Butano. Butano's familiarity with the Project, including the site conditions and detailed plans and specifications, as well as their existing working relationship with PEI allows them to complete these services in a cost-effective and efficient manner. Butano is also able to commit to meeting the project requirements and conduct the site visits necessary for the duration of the Project.

The proposed contract scope of work includes:

- Civil engineering consultation services:
 - Review of construction documents and submittals.
 - Attend construction meetings as needed.
 - Respond to requests for information (RFI's).

- Geotechnical observation and testing:
 - Observation and testing of asphalt pulverization and mixing, full depth rehabilitation via emulsion, compaction and compressive strength.
 - Mobilization of an onsite laboratory to facilitate timely testing (testing to be done per Caltrans methods)
 - Compaction testing of baserock and trench material.
 - Laboratory compaction curves.
 - Asphalt testing.

- General construction observation:
 - Observation and documentation of demolition process.
 - General grading observation and documentation.
 - Observation and documentation of drainage improvements.
 - Observation and documentation of valley gutters and curb installation, including concrete pours.
 - Observation and documentation of new retaining walls.

The quality control monitoring during construction will protect the District by ensuring that the Project is properly implemented and constructed in conformance with the plans and specifications. This in turn will increase the lifespan of the roadway infrastructure, while reducing future maintenance and repair costs.

FISCAL IMPACT

The District’s Fiscal Year 2016-17 Action Plan and Budget includes \$6,331,072 to complete the Mount Umunhum Road Rehabilitation Project. The budget includes construction costs for the Project, allowances for contingencies and unforeseen conditions, consultant fees for general conditions, and construction administration, and other soft costs.

MAA 23-006 Budget	\$6,331,072
Spent to Date (as of 10/10/16):	\$22,893
Encumbrances:	\$5,017,658
Butano Geotechnical Engineers, Inc. Contract:	\$87,879
Budget Remaining (Proposed):	\$1,202,642

Sufficient funds to cover the third-party geotechnical project oversight contract are included in the Fiscal Year 2016-17 Action Plan and Budget for the Project. The following table provides an overview of budgets and costs to date for Measure AA Portfolio 23:

MAA 23 Portfolio Allocation	\$27,972,000
Spent to Date (as of 10/10/2016):	\$2,027,096
Encumbrances:	\$13,065,179
Mt. Um Summit Restoration (23-004) Remaining Project Budget:	\$773,655
Mt. Um Road Rehabilitation (23-006) Remaining Project Budget:	\$1,202,642
Balance Remaining (Proposed):	\$10,903,428

BOARD COMMITTEE REVIEW

The full Board approved Road Project Design and Bid Plan Set on May 25, 2016 (R-16-62). Due to the full Board's review, a separate Board Committee review was not necessary.

PUBLIC NOTICE

Public notice was provided as required by the Brown Act.

CEQA COMPLIANCE

The Project was evaluated as part of the Environmental Impact Report (EIR) and Mitigated Monitoring Plan (MMP) approved by the Board on October 17, 2012, for the Mount Umunhum Environmental Restoration and Public Access Project (R-12-104).

NEXT STEPS

Pending Board approval, the General Manager will enter into contract with Butano Geotechnical Engineers, Inc., for third-party geotechnical construction monitoring, and quality control testing of construction of work by O.C. Jones & Sons, Inc., for the duration of the project. Construction is anticipated to be completed in Summer 2017.

Responsible Department Head:

Jason Lin, PE, Engineering & Construction Department Manager

Prepared by:

Zachary Alexander, Capital Project Manager II