



Midpeninsula Regional  
Open Space District

R-15-59  
Meeting 15-08  
April 08, 2015

## **AGENDA ITEM 3**

### **AGENDA ITEM**

Purchase of the Mount Umunhum Bridges

### **GENERAL MANAGER'S RECOMMENDATION**

Authorize the General Manger to enter into a contract with Contech Engineered Solutions for an amount not-to-exceed \$53,620 to engineer, manufacture, store, and deliver three prefabricated trail bridges. In addition, authorize a contingency of \$10,000 for design and engineering refinements, as required to adapt to field conditions, for a total not-to-exceed contract amount of \$63,620.

### **SUMMARY**

The proposed contract with Contech Engineered Solutions includes the design, engineering, manufacture and delivery of three prefabricated weathered steel (i.e. Corten™) bridges to be installed at drainage crossings along the new Mount Umunhum Trail, which will be a key trail connection between the new Bald Mountain Staging Area and the Mount Umunhum summit. The Fiscal Year 2015-16 budget includes sufficient funds for the recommended bridge contract.

### **MEASURE AA**

The Mount Umunhum Guadalupe Creek Overlook and Bridges Project would further the District's Vision Plan Priority Action Items and Measure AA Projects. The Measure AA Project List, which was approved by the Board on October 29, 2014, includes Project 23-5 - Mt. Umunhum Guadalupe Creek Overlook and Bridges Planning & Design, which is part of Project Portfolio 23 - Sierra Azul: Mt. Umunhum Public Access and Interpretation. The bridge project furthers the goals of Project Portfolio 23 as it allows for public access to the summit of Mount Umunhum via the new Mount Umunhum Trail.

### **DISCUSSION**

The new Mount Umunhum trail will require three bridges over watercourse crossings. The bridge lengths are between twenty feet and twenty-six feet. All construction, including the abutments and bridge foundations, will be well outside the wetted channel of the watercourse. District crews are currently building the trail, and will build the foundations and abutments for the prefabricated bridges. The bridges had originally been envisioned to be hand-built by District crews. However, the difficult logistics of bringing in construction materials to the remote bridge sites necessitated staff to consider utilizing helicopters to transport prefabricated

bridges as a safer and more expedient option. The prefabricated bridges would be constructed in weathered steel, which allows for a longer lifespan as compared to wood.

Two of the bridges would be flown in complete, and set on foundations built by District crews. One of the bridges cannot be flown in complete due to existing tree cover. This bridge will be prefabricated as a kit-of-parts, flown in near the bridge site, and assembled by District crews.

The District issued a Request for Quotes (RFQ) to three prefabricated bridge manufacturers and one local steel structures manufacturer. Three quotes were received.

	<b>CONTECH</b>	<b>BIG R</b>	<b>EXCEL</b>
<b>Bridge #1</b>	\$16,490	\$18,495	\$14,500
<b>Bridge #2</b>	\$20,410	\$26,950	\$17,000
<b>Bridge #3</b>	\$16,720	\$18,875	\$20,000
<b>Total</b>	<b>\$53,620</b>	<b>\$64,320</b>	<b>\$51,500</b>

The scope of work includes design and engineering coordination, provision of signed stamped bridge drawings for permitting in Santa Clara County, as well as fabrication and delivery to Mount Umunhum. The quote from Excel was disqualified because the proposal included errors in the length and design for Bridges #1 and #2, which would impact the costs quoted for these bridges. Contech was deemed qualified and provided a fair and reasonable quote. Staff contacted the references for Contech and reviewed their proposal package to ensure they had fully complied with the RFQ requirements.

### **FISCAL IMPACT**

The FY 2015-16 Action Plan includes sufficient funds (\$213,000) as part of the Mount Umunhum Guadalupe Creek Overlook and Bridges Project to fund the recommended contract for the purchase and installation of the bridges.

### **BOARD COMMITTEE REVIEW**

This item was not previously reviewed by a Committee.

### **PUBLIC NOTICE**

Public notice was provided as required by the Brown Act.

### **CEQA COMPLIANCE**

The construction of the Mount Umunhum trail, which includes the installation of the three new bridges, is covered by the EIR that was prepared for the Mount Umunhum Environmental Restoration and Public Access Project and certified by the Board on June 12, 2012.

**NEXT STEPS**

If approved, the General Manager will direct staff to finalize negotiations with Contech and coordinate the design, engineering, and shop drawing submittal process. Staff will also coordinate between Contech and the bridge foundation design engineers, Tim Best and Steve Mayone, to ensure the foundations are designed to meet the structural requirements for the prefabricated bridges. Staff will submit the final bridge drawings and foundations design plans to the Santa Clara County for plan check review. Once drawings are approved, the bridges will take approximately eight weeks to manufacture and deliver to Mount Umunhum. The bridges will be staged at the summit and flown via helicopter down to the bridge sites along the Mount Umunhum trail.

**Attachment**

A: Photos of typical Contech pedestrian bridges

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**ATTACHMENT A – Photos of typical Contech pedestrian bridges**

