



**DATE:** March 29, 2016

**CATEGORY:** Consent

**DEPT.:** Public Works

**TITLE:** **Amend Design Professional Services Agreement with NV5 for Annual Water and Sewer Main Replacement, Projects 14-21 and 14-22**

### **RECOMMENDATION**

Authorize the City Manager to amend the professional services agreement with NV5 for the Annual Water and Sewer Main Replacement, Projects 14-21 and 14-22, increasing compensation by \$160,000 for a total contract amount not to exceed \$662,030.

### **BACKGROUND**

On April 14, 2015, City Council approved a design services contract with NV5 Engineers of San Jose to prepare plans and specifications for the Annual Water and Sewer Main Replacement, Projects 14-21 and 14-22, for \$400,000. Projects 14-21 and 14-22 are annual infrastructure maintenance projects that replace substandard or end-of-service-life water mains, sewer mains, and service laterals. The mains are selected for replacement based on age of the pipe, failure history, and/or capacity considerations.

The scope of work includes replacement of approximately 4,800' of water mains and 4,600' of sewer mains on Boranda Avenue, Begen Avenue, Bond Way, Crane Avenue, Gantry Way, and Cuesta Drive. The project also includes work at or near the City-owned Moffett Gateway site located at 750 Moffett Boulevard, including replacement of approximately 360' of failing sewer main; two new water services for the Moffett Gateway site; and the upsizing of approximately 980' of water main on Leong Drive.

On June 23, 2015, the NV5 contract was amended with an increase of \$102,030 to include the design to replace an 18" sewer main that crosses Stevens Creek near Highway 85 and for surveying sewer and storm drain manholes that serve the Moffett Gateway property and San Antonio Precise Plan area to determine system capacities.

## **ANALYSIS**

Staff recommends amending the NV5 contract to add additional services related to the sewer rehabilitation work and installation of new water mains near the Moffett Gateway site and to begin design on water and sewer rehabilitation and installation work near the Community Center. The additional scope of work is provided as Attachment 1 and includes:

### **Moffett Gateway Utilities**

#### **Design of Sewer Main Crossing Stevens Creek and State Route 85**

Design of the 18" sewer main crossing Stevens Creek is already in NV5's contract. After several meetings regarding potential creek crossing locations, the Santa Clara Valley Water District (Water District) returned with a final recommendation of an alignment approximately 100' south of the alignment proposed by the City. The new alignment requires additional design effort by NV5.

#### **Development of Health and Safety Plans**

Some of the water and sewer mains under design are in the Middlefield-Ellis-Whisman (MEW) groundwater contamination plume area. The Environmental Protection Agency (EPA) requires health and safety plans for underground work in this area, and staff recommends that NV5 prepare the health and safety plan.

#### **Additional Efforts for Water Main Design**

Caltrans is requiring that the City bore the two new water services to the Moffett Gateway site under Moffett Boulevard rather than use open trench excavation. The change in construction method requires a change in the design and additional design effort. Temporary construction easements will also be required, and NV5 would prepare the plats and legal descriptions for the easements.

### **Water and Sewer Design for Rengstorff Park**

The sewer main serving the Community Center and maintenance building on the southerly end of Rengstorff Park are at the end of their useful lives, as are the sewer laterals serving the Aquatics Building and barbecue area along Crisanto Avenue. These lines are failing and require monthly maintenance. Staff recommends that replacement of these services be combined as one effort, and that the work be done in advance of or in conjunction with the Community Center expansion and remodel.

When the Senior Center was constructed, a water main was installed from Escuela Avenue through the parking lot to near the tennis courts for future extension to Rengstorff Avenue. This water main will connect the systems on the east and west sides of Rengstorff Park to improve system reliability and provide flexibility in operation of the water system. Staff recommends constructing this connection in advance of or in conjunction with the Community Center expansion and remodel to avoid future disruption of the Community Center parking lot.

Because NV5 is already under contract and working on the annual water and sewer main replacement project, staff believes it is more cost- and time-efficient to add these services to the NV5 contract rather than issuing a request for proposals to a firm that is not already under contract.

### **FISCAL IMPACT**

The estimated cost of the recommended work is as follows:

<b>Moffett Gateway Utilities</b>	Sewer	\$ 17,852
	Water	23,544
<b>Rengstorff Park Utilities</b>	Sewer	42,451
	Water	52,733
<b>Additional Services</b>	Sewer	11,710
	Water	11,710
<b>Subtotal</b>	<b>Sewer</b>	<b>72,013</b>
	<b>Water</b>	<b>87,987</b>
<b>TOTAL</b>		<b>\$160,000</b>

The Annual Water Main Replacement, Project 14-21, is funded with \$1,688,000 from the Water Fund. The Annual Storm and Sanitary Sewer Main Replacement, Project 14-22, is funded with \$1,335,000 from the Wastewater Fund.

The existing NV5 contract is funded with \$224,335 from Project 14-21 and \$277,695 from 14-22 for a total of \$502,030. The recommended amendment increases funding by \$87,987 from Project 14-21 and \$72,013 from Project 14-22 for a total contract amount of \$662,030. The recommended fees are within the range typically charged for such services, and staff considers the fees to be fair and reasonable.

**ALTERNATIVES**

1. Defer the design of the new water and sewer main design at the Community Center until the next annual water and sewer main replacement project.
2. Issue a Request for Proposals for the recommended services.
3. Provide other direction.

**PUBLIC NOTICING** – Agenda posting.

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LA/TS/7/CAM  
911-03-29-16CR-E

Attachment: 1. NV5 Proposal for Additional Services Scope of Work and Fees

cc: PCE – Au, USM, SCE – Muench, AE – Bumanglag, AAI – Grimm, f/c (14-21, 14-22)