



**Recommendation for  
Water & Wastewater Commission**

<b>Commission Meeting Date:</b>	March 8, 2017
<b>Council Meeting Date:</b>	March 23, 2017
<b>Department:</b>	Public Works
<b>SUBJECT</b>	
<p>Authorize negotiation and execution of an amendment to the professional services agreement with <b>CP&amp;Y, INC.</b>, for final design phase services for the South Austin Regional Train A&amp;B Improvement project in the amount of \$4,950,000 for a total contract amount not to exceed \$7,950,000. (District 2)</p>	
<b>AMOUNT AND SOURCE OF FUNDING</b>	
<p>Funding is available in the Fiscal Year 2016-2017 Capital Budget of Austin Water.</p>	
<b>Purchasing Language:</b>	Original contract was awarded through a competitive Request-for-Qualifications solicitation process.
<b>Prior Council Action:</b>	March 20, 2014- Council approved a Professional Services Agreement with CP&Y, Inc.
<b>For More Information:</b>	John Wepryk, 512-974-7010; Brent Bassett, 512-972-0653; Denise Avery, 512-972-0104
<b>Boards and Commission Action:</b>	March 8, 2017- To be reviewed by the Water and Wastewater Commission.
<b>MBE/WBE:</b>	This contract was awarded in compliance with Chapter 2-9B of the City Code (Minority Owned and Women Owned Business Enterprise Procurement Program) by meeting the goals with 15.80% MBE and 15.80% WBE participation.

The South Austin Regional Wastewater Treatment Plant (SAR WWTP) consists of three parallel treatment units: Train A, Train B, and Train C. Each unit generally consists of physical and biological processes that treat raw sewage to meet criteria required by the City and regulatory agencies. The current treatment capacity of the wastewater treatment plant is 75 million gallons per day (MGD) as measured on an average daily basis. Trains A and B were constructed in the mid-1980s and Train C was constructed in the early 2000s.

Train A&B Preliminary Treatment, Primary Clarifiers, Secondary Clarifiers, Chlorine Contact Clarifier and ancillary equipment are part of the original process components constructed more than 30 years ago. These facilities are showing signs of deficiencies and deterioration affecting the operational efficiency and reliability of the SAR WWTP.

A preliminary engineering analysis has been completed by CP&Y for the Trains A&B. The results from this study highlighted that for continued reliable operation of these two Trains, the electrical system will require complete conduit and gear replacement. The existing electrical gear has parts that are no longer manufactured and therefore replacement is the only effective option. Conduits are deteriorated and must be replaced throughout. Additionally, the mechanical systems throughout both Trains A&B require significant upgrades. Both mechanical and electrical upgrades are needed to achieve the wastewater treatment objectives and meet growth demands from increasing flows.

The proposed project includes replacement and/or rehab of the following Trains A&B systems; electrical, instrumentation and controls, conduit, lighting, preliminary treatment, bar screening, grit removal, scum removal, primary and secondary clarification, sludge and scum pumping and piping, chlorine contact, valves, gates, building ventilation, and safety railing. Design for these improvements will take 24 months and the related construction is anticipated to take approximately 60 months.

Engineering services are being requested for final design and bidding services. These engineering services include plans and specifications development, plant hydraulic and process analysis, quality management, permitting, and bidding coordination. This authorization provides funding for professional services related to final design and bidding only. Additional construction phase professional services will be requested after the final design phase is complete and construction bids have been received.

This project is located within zip code 78724 (District 2), and is managed by the Public Works Department.

CP&Y, Inc. is located in Austin, Texas.

### **AUTHORIZATION HISTORY**

<u>AMOUNT</u>	<u>DATE -- DESCRIPTION</u>
\$3,000,000	02/27/14 (Council) – Professional Engineering Services
<u>\$4,950,000</u>	<u>02/16/17 (Proposed) – Final Design Services</u>
<i>\$7,950,000</i>	<i>Total Authorization</i>

**CONTRACT HISTORY**

<u>AMOUNT</u>	<u>DATE -- DESCRIPTION</u>
\$826,207.24	03/10/2015 -- Original Professional Services Agreement for Preliminary Design
\$49,999.00	12/17/15- SA#1- Additional Services for Preliminary Design Services
\$186,037.25	11/18/2016- SA # 2- Additional Services for Preliminary Design Services
\$ 6,887,756.51	Proposed- SA #3- (Remaining original authority amount of \$1,937,756.51 plus this additional authorization amount of \$4,950,00)- <u>Final Design, Bid Document Preparation</u>
\$ 7,950,000.00	<i>Total Contract Expenditures</i>

**MWBE Summary**

Participation goals stated in the original approved compliance plan for the agreement were 1.90% African-American, 9.00% Hispanic, 4.90% Asian/Native American, and 15.80% WBE subcontractor participation for this amendment:

<u>NON M/WBE - CONSULTANT</u>	<u>\$3,355,638.56</u>	<u>48.66%</u>
CP&Y, Austin, TX	\$3,355,638.56	48.66%
<u>MBE TOTAL – SUBCONSULTANTS</u>	<u>\$728,816.95</u>	<u>10.58%</u>
<u>African American Subtotal</u>	<u>\$148,300</u>	<u>2.15%</u>
(MB) HVJ Associates, Inc., Austin, TX (civil engineering)	\$148,300	2.15%
<u>Hispanic Subtotal</u>	<u>\$279,029.95</u>	<u>4.05%</u>
(MH) MWM Design Group, Austin, TX (architectural services)	\$19,717.95	0.28%
(MH) Macias & Assoc., LP, Austin, TX (surveying, utility location, CAD)	\$49,950	0.73%
(MH) V&A Consulting Engineers, Inc., Houston, TX (engineering services, wastewater treatment engineering)	\$209,362	3.04%
<u>Asian American Subtotal</u>	<u>\$301,487</u>	<u>4.38%</u>
(MA) CAS Consulting & Services, Inc., Austin, TX (civil engineering)	\$301,487	4.38%
<u>WBE TOTAL – SUBCONTRACTORS</u>	<u>\$2,182,291</u>	<u>31.68%</u>
(FW) Harutunian Engineering, Inc., Austin, TX (electrical, instrumentation)	\$2,182,291	31.68%
<u>NON M/WBE - SUBCONSULTANT</u>	<u>\$621,010</u>	<u>9.08%</u>
Carollo Engineers, Austin, TX (mechanical engineering, eng. consulting)	\$621,010	9.08%

**Overall participation based on contract expenditures as of January 18, 2017(not including this amendment):**

**PRIME:**

35.51% Non M/WBE

**SUBCONSULTANTS:**

1.25% African American; 16.49% Hispanic 8.49% Asian/ Native; 17.48% WBE; and 20.78% Non M/WBE

**TOTAL:**

1.25% African American; 16.49% Hispanic 8.49% Asian/ Native; 17.48% WBE; and 56.29% Non M/WBE