



**City of Biggs**  
**Agenda Item for the**  
**City Council Meeting**  
**June 14<sup>th</sup>, 2016 at 6:30pm**

**To: Honorable Mayor  
And Members of the City Council**

**Date: June 9, 2016**

**From: Trin Campos, PE – City Engineer**

**Subject: Amendment No.1 to Task Order No. 29 - Wastewater Treatment Plant  
Improvement Phase 2 Project**

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**BACKGROUND**

The City's existing wastewater treatment plant is being upgraded to enhance its operational capabilities in two phases. Phase 1 of the project, improvements to the headworks, has been completed. Design of the Phase 2 Improvements is underway, which will convert the existing WWTP to a land disposal facility and eliminate discharge to Lateral K. The City's order from the California Regional Water Quality Control Board requires that the City have the project completed and operating by October of 2017.

The current Task Order 29 with Bennett Engineering Services for the Phase 2 wastewater project includes support work for the design of the improvements to the WWTP and land disposal facilities. Task Order 9 included support work for WWTP land acquisition and Task Order 37 included the support work for the WWTP Annexation Mapping.

This request is for Amendment No. 1 to Task Order No. 29 in the amount of \$57,865 for additional work scope required for the WWTP Phase 2 Project. As a result of delays in the project due to unforeseen environmental reviews, funding lead agency changes, addition efforts required for SBFCA coordination, Title 22 report requirements, and monitoring well installation; the scope of work for the project has been substantially increased as outlined in the attached Exhibit A – Scope of Services.

**Project Budget Summary:**

Task Order 9 - WWTP Land Acquisition:	\$ 71,500
Task Order 29 - WWTP Phase 2:	\$546,691
Task Order 37 - WWTP Annexation Map:	<u>\$ 6,112</u>
Current Project Budget:	\$624,303

<b>Requested Amendment amount:</b>	<b>\$57,865</b>
Close-out of Task Order 29:	<u>(\$30,894)</u>
Proposed Revised Project Budget:	\$651,274

**FISCAL IMPACT**

The funding for this project, including this Amendment amount, are included in the SRF project budget and are expected to come from a loan and grant from the State Revolving Fund (SRF) Program. Repayment of the SRF loan will need to come from the current City sewer rates. Once the total project right of way cost, construction cost, and the SRF loan amount are determined, City staff will work with Bennett Engineering Services to evaluate the project scope & budget and make adjustments (if necessary) so that the future SRF loan payments are within the City's current sewer rate structure.

**RECOMMENDATION**

Staff recommends that the City Council approve the amendment in the amount of \$57,865 and authorize the City Administrator to execute this Amendment to Task Order No. 29, Contract with Bennett Engineering Services for Design Services for the Phase 2 Wastewater Improvement Project.

# EXHIBIT A: Scope of Services

To: AMENDMENT NO. 1 TO TASK ORDER NO. 29

Client: City of Biggs

Consultant: Bennett Engineering Services Inc

Project: WWTP Phase 2 Improvements

Date: June 1, 2016



Bennett Engineering (BEN|EN) has been tasked with the design of Plans, Specification, and Construction Cost Estimate for the City of Biggs WWTP Phase 2 Improvements. As a result of delays in the project due to unforeseen environmental reviews, funding lead agency changes, as well as addition efforts required for SBFCA coordination, Title 22 report requirements, and monitoring well installation; the scope of work on the project has been substantially increased as outlined in the Tasks below.

## TASK 1. Project Management

The addition of SBFCA coordination to the WWTP Phase 2 efforts was not in the original scope and has required coordination, meetings, site visits, and preparation of exhibits. Survey information and the final SBFCA survey and permanent monuments provided by SBFCA required additional and ongoing coordination.

The delays in the project due to SBFCA coordination, land acquisition, Giant Garter Snake matters, monitoring well delays, and RWQLB requirements and requests have increased the number of monthly updates for the project and revisions to the schedule.

### Subtask 1.1. Meetings, Team Coordination, and Field Review

- Attend 2 site visits
- Attend 1 coordination meeting
- Attend 1 conference call
- Prepare stockpile exhibit, coordinate surveying efforts and data
- Manager survey coordination with SBFCA

### Subtask 1.2. Monthly Status Reports and Schedule

- Prepare 12 additional monthly updates
- Prepare 1 additional schedule revision.

## TASK 3. Hydrogeological Investigation, Design, Installation, and Sampling

The start date for the ground water investigation was delayed due to land acquisition timing. The delay required an accelerated schedule due to Giant Garter Snake (GGS) mitigation measure requirements, and differing site conditions encountered by the contractor (a sub consultant to BEN|EN) lead to additional work to install the monitoring wells.

### Subtask 3.2. Installation

The Monitoring wells were installed at the appropriate depth, deeper than anticipated and were expedited for the purpose of GGS mitigation.

## TASK 7. Final Design Plans, Specifications & Cost Estimates

The addition of the SBFCA efforts to WWTP Phase 2 will require additional design work to include updated survey information of the SBFCA excavation, revisions to the design to account for the excavation area, and revisions to the quantities used to balance on site earthwork and for cost estimating.

Federal and State agency environmental review will require changes to the Plans and Specifications to accommodate the required mitigations and permits.

**Subtask 7.1. SBFCA Effort**

Revise design to incorporate updated survey information from SBFCA modifications involved.

**Subtask 7.2. Environmental**

Modify Plans and Specifications to incorporate mitigations due to additional RWQCB and Fish and Wildlife environmental review.

**TASK 8. RWQCB Permit Assistance**

The scope of the permitting effort has been expanded to include additional environmental reviews and permits with EPA, USWF, and CDFW. The RWQCB is requiring the City to submit a Title 22 Report for the recycled water use. This was not anticipated on the scope of services.

**Subtask 8.1. Environmental Review Support**

Additional coordination with the environmental team

- Attend 2 additional meetings with Agencies

**Subtask 8.2. Title 22 Report**

Prepare Title 22 Report.

**TASK 10. SRF Funding Assistance**

The change in lead agency from USDA to SWRCB and land acquisition proceedings have caused delays and required additional effort for funding assistance.

**Subtask 10.1. Lead Agency Change**

Revise SRF funding application to include land application

**Subtask 10.2. Eminent Domain**

Additional effort to prepare and coordinate with SRF on the eminent domain proceedings.

**DELIVERABLES:**

- 1 Additional project design schedule
- 12 Additional monthly progress reports via email
- SBFCA construction phasing exhibit for stockpiling material
- Revised SRF funding application
- Title 22 Report

**ASSUMPTIONS:**

- Construction Phase engineering support, preparation of O&M manuals, and preparation of record drawings will be performed under a separate Task Order

**Exhibit B: Fee Estimate**

TO: AMENDMENT No. 1 to TASK ORDER No. 29

Client: City of Biggs

Consultant: Bennett Engineering Services Inc

Project: WWTP Improvements Phase 2

Date: June 3, 2016



Fee Estimate	Principal Engineer 188 \$/hr		Engineer VI 148 \$/hr		Engineer V 140 \$/hr		Engineer III 140 \$/hr		Engineer II 137 \$/hr		Engineer I 123 \$/hr		Designer III 125 \$/hr		Administrative 65 \$/hr		BENJEN Subtotal		MISC. EXPENSES	GEI Contract	TOTAL
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost			
<b>Task 1 - Project Management</b>																					
1.1 - Meetings, Team coordination, and Field Review	2 hrs	\$376	4 hrs	\$672	6 hrs	\$960	6 hrs	\$870	16 hrs	\$2,192	hrs	\$0	hrs	\$0	hrs	\$0	34 hrs	\$5,070	\$20	\$0	\$5,320
1.2 - Monthly Status Reports and Schedule	hrs	\$0	hrs	\$0	hrs	\$0	hrs	\$0	12 hrs	\$1,644	hrs	\$0	hrs	\$0	4 hrs	\$260	18 hrs	\$1,904	\$100	\$0	\$2,004
<b>Subtotal</b>	<b>2 hrs</b>	<b>\$376</b>	<b>4 hrs</b>	<b>\$672</b>	<b>6 hrs</b>	<b>\$960</b>	<b>6 hrs</b>	<b>\$870</b>	<b>28 hrs</b>	<b>\$3,836</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>4 hrs</b>	<b>\$260</b>	<b>50 hrs</b>	<b>\$6,974</b>	<b>\$300</b>	<b>\$0</b>	<b>\$7,274</b>
<b>Task 3 - Hydrogeological Investigation, Design, Installation, and Sampling</b>																					
3.2 - Installation	2 hrs	\$376	hrs	\$0	hrs	\$0	hrs	\$0	12 hrs	\$1,644	hrs	\$0	hrs	\$0	hrs	\$0	14 hrs	\$2,030	\$100	\$12,841	\$14,961
<b>Subtotal</b>	<b>2 hrs</b>	<b>\$376</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>12 hrs</b>	<b>\$1,644</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>14 hrs</b>	<b>\$2,030</b>	<b>\$100</b>	<b>\$12,841</b>	<b>\$14,941</b>
<b>Task 7 - Final Design Plans, Specifications &amp; Cost Estimates</b>																					
7.1 - SRFCA Effort	2 hrs	\$376	hrs	\$0	hrs	\$0	hrs	\$0	10 hrs	\$1,370	20 hrs	\$2,500	16 hrs	\$2,000	hrs	\$0	48 hrs	\$6,246	\$310	\$0	\$6,556
7.2 - Environmental Review	2 hrs	\$376	hrs	\$0	hrs	\$0	hrs	\$0	8 hrs	\$1,096	16 hrs	\$2,000	4 hrs	\$500	hrs	\$0	30 hrs	\$3,972	\$200	\$0	\$4,172
<b>Subtotal</b>	<b>4 hrs</b>	<b>\$752</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>18 hrs</b>	<b>\$2,466</b>	<b>36 hrs</b>	<b>\$4,500</b>	<b>20 hrs</b>	<b>\$2,500</b>	<b>hrs</b>	<b>\$0</b>	<b>78 hrs</b>	<b>\$10,218</b>	<b>\$510</b>	<b>\$0</b>	<b>\$10,728</b>
<b>Task 8 - RWQCB Permit Assistance</b>																					
8.1 - Environmental Review Support	2 hrs	\$376	8 hrs	\$1,344	hrs	\$0	8 hrs	\$1,160	12 hrs	\$1,644	hrs	\$0	hrs	\$0	hrs	\$0	30 hrs	\$4,524	\$210	\$0	\$4,734
8.2 - Title 22 Report	4 hrs	\$752	4 hrs	\$672	hrs	\$0	24 hrs	\$3,480	24 hrs	\$3,288	24 hrs	\$3,000	hrs	\$0	10 hrs	\$650	90 hrs	\$11,842	\$550	\$0	\$12,432
<b>Subtotal</b>	<b>6 hrs</b>	<b>\$1,128</b>	<b>12 hrs</b>	<b>\$2,016</b>	<b>hrs</b>	<b>\$0</b>	<b>32 hrs</b>	<b>\$4,640</b>	<b>36 hrs</b>	<b>\$4,932</b>	<b>24 hrs</b>	<b>\$3,000</b>	<b>hrs</b>	<b>\$0</b>	<b>10 hrs</b>	<b>\$650</b>	<b>120 hrs</b>	<b>\$16,366</b>	<b>\$810</b>	<b>\$0</b>	<b>\$17,176</b>
<b>Task 10 - SRF Funding Assistance</b>																					
10.1 - Lead Agency Change	3 hrs	\$564	4 hrs	\$672	hrs	\$0	12 hrs	\$1,740	hrs	\$0	hrs	\$0	hrs	\$0	hrs	\$0	19 hrs	\$2,076	\$110	\$0	\$3,126
10.2 - Eminent Domain	3 hrs	\$564	12 hrs	\$2,016	hrs	\$0	12 hrs	\$1,740	hrs	\$0	hrs	\$0	hrs	\$0	hrs	\$0	27 hrs	\$4,310	\$110	\$0	\$4,540
<b>Subtotal</b>	<b>6 hrs</b>	<b>\$1,128</b>	<b>16 hrs</b>	<b>\$2,688</b>	<b>hrs</b>	<b>\$0</b>	<b>24 hrs</b>	<b>\$3,480</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>hrs</b>	<b>\$0</b>	<b>46 hrs</b>	<b>\$7,296</b>	<b>\$220</b>	<b>\$0</b>	<b>\$7,646</b>
<b>PROJECT TOTAL</b>	<b>20 hrs</b>	<b>\$3,760</b>	<b>32 hrs</b>	<b>\$5,376</b>	<b>6 hrs</b>	<b>\$960</b>	<b>62 hrs</b>	<b>\$8,890</b>	<b>94 hrs</b>	<b>\$12,878</b>	<b>60 hrs</b>	<b>\$7,500</b>	<b>20 hrs</b>	<b>\$2,500</b>	<b>14 hrs</b>	<b>\$910</b>	<b>308 hrs</b>	<b>\$42,874</b>	<b>\$2,150</b>	<b>\$12,841</b>	<b>\$57,865</b>

**Additional Fee Information**

- This fee estimate is valid for 90 days.
- This fee estimate contains an abbreviated list of staff classifications and does not restrict BENJEN to those classifications. The Standard Rate Schedule with a full list of staff classifications is available upon request.
- Standard hourly rates do not apply to a demand to perform work during an overtime period. Work required to be performed during an overtime period (as mandated by California law) will be charged at a 50% premium.
- Substantial changes in the required scope of work or schedule may result in the revision of the proposed fees and total contract amount.

INITIALS:

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