

RESOLUTION NO. 06-03-2012

**A RESOLUTION OF THE SANTAQUIN CITY COUNCIL, AUTHORIZING AN AMENDMENT TO THE WASTEWATER ENGINEERING AGREEMENT FOR THE DESIGN OF THE CONVEYANCE FROM THE EXISTING LAGOONS TO THE WASTEWATER RECLAMATION FACILITY (WRF).**

**WHEREAS**, On December 1, 2010, the Santaquin City Council authorized JUB Engineers, Inc (JUB) to perform Field and Office Engineering and Related Construction Administration (CA) services for the construction of the Santaquin WRF; and

**WHEREAS**, Santaquin City desires now to modify the scope of the WRF Project to fully retire its existing Sewer Lagoons under the same WRF Project by scaling back the existing project in non-functional areas (such as aesthetics) thus allowing for funding of the Sewer Lagoon Retirement; and

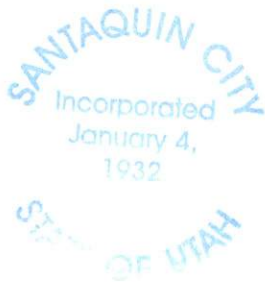
**WHEREAS**, the retirement of the Sewer Lagoons necessitates the design and construction of an 18" line for the conveyance of sewer influent from the lagoon area to the WRF site as well as the conversion of the existing Sewer Force Main into a conveyance of type I sewer effluent from the WRF site to the winter storage ponds; and

**WHEREAS**, the aforementioned Sewer Lagoon Retirement has not yet been fully designed by our Project Engineers beyond that of a high-level cost estimating stage; and

**WHEREAS**, in order to allow for the design of said improvements, the existing engineering services agreement requires modification to allow for the design of said conveyance systems and lagoon retirement;

**NOW, THEREFORE, BE IT ORDAINED** by the City Council of Santaquin City, State of Utah, to authorize the acceptance of the "Engineering Amendment for Conveyance from Lagoons to WRF" (See Attached).


PASSED AND APPROVED this 20<sup>th</sup> day of June 2012.



SANTAQUIN CITY COUNCIL

  
James E. DeGraffenried, Mayor

ATTEST:

  
City Recorder



J-U-B COMPANIES



THE  
LANGDON  
GROUP



GATEWAY  
MAPPING  
INC.

June 13, 2012

Ben Reeves, City Manager  
45 W. 100 S.  
Santaquin, UT 84655

**RE: Engineering Amendment for Conveyance from Lagoons to WRF**

Dear Ben,

On December 1, 2010, Santaquin City authorized JUB ENGINEERS, Inc. (J-U-B) to perform Field and Office Engineering and Related Construction Administration (CA) services for the construction of the Santaquin Water Reclamation Facility (WRF) Project. The Division of Water Quality (DWQ), one of the key funding partners on the project, concurred with the CA services contract in a letter dated January 12, 2011. Construction of the WRF began in March of 2012 and is ongoing at this time (J-U-B is presently performing CA services under the December 1, 2010 scope).

Santaquin City desires to maximize the use of the existing funds available as part of the WRF and with support from J-U-B and the Contractor is considering reductions of scope in the WRF contract to provide funds to accelerate the decommissioning of the sewer lagoons. Central to the decommissioning of the lagoons is providing additional conveyance capacity for wastewater from the lagoons to the new WRF. The following Scope of Services is an amendment for additional Engineering services to perform preliminary and final design of the conveyance system from the sewer lagoons to the WRF location.

This amendment is issued under the December 1, 2010 Field and Office Engineering and Related Construction Administration Services contract which is part of the master Agreement for Professional Services #50-06-016 dated July 5, 2006 between Santaquin City and J-U-B ENGINEERS Inc. The July 5, 2006 Agreement for Professional Services is a master city engineering agreement that includes Capital Improvement Projects.

Sincerely,  
J-U-B ENGINEERS, Inc.

Trevor R. Lindley  
Project Manager, P.E.

Cc: Norm Beagley, P.E.

\\kays\public\Projects\JUB\Santaquin\50-10-026-Santaquin WRF-CA Services\Administration\Trunkline Amendment\Scope of Services - Conveyance from Lagoons to WRF.docx

**SANTAQUIN CITY - WATER RECLAMATION FACILITY PROJECT  
AMENDMENT TO FIELD AND OFFICE ENGINEERING AND RELATED CA SERVICES CONTRACT**

**Scope of Services**

**Pre-Design and Final Design of Conveyance Facilities Between Sewer Lagoons and Santaquin WRF**

**June 20, 2012**

Engineer shall evaluate up to three (3) alternatives for designing wastewater and/or reclaimed water conveyance piping systems from 420 West at approximately 950 North to the existing lagoons; the intent of these alternatives is to utilize, if feasible, the existing sewage force main to the best benefit of the City. The route for these improvements has generally been determined. Once an alternative is selected, Engineer will provide plans to the WRF Contractor for proposed change order pricing.

ENGINEER shall perform the following services:

**Task 505 Pre-Design Services**

- Develop scope of services/options and project setup
- Review pre-determined route and property lines/rights-of-way
- Download digital terrain from Google Earth for preliminary use
- Review Master Plan; verify pipe sizing based on terrain
- Coordinate constructability with Contractor
- Layout pipes for each of the following options:
  - Convert existing force main to reclaimed water transmission line in place; add gravity line
  - Convert existing force main to gravity line; add parallel gravity line; add reclaimed water transmission line
  - Add gravity line and reclaimed water transmission line; keep existing force main in reserve as parallel line for reclaimed water or use with new reclaimed line
- Determine additional permanent and construction easements needed
- Create evaluation matrix for the three options; include:
  - Life cycle/capacity
  - Easements needed (now, future, difficult property owner)
  - Operations and maintenance
  - Constructability
  - Relative cost
- Determine which in-town sewer interconnects are needed at this time
- Hold internal review meeting
- Prepare recommendation memo
- Perform QA/QC check
- Meet with Santaquin City and Contractor for selecting alternative

**Task 510 Design Services**

- Coordinate with the City for permission to access properties
- Perform topographic survey along pipeline alignment and at in-town interconnects
- Create design base map including information from topographic survey, property and easement lines, and existing utilities
- Design selected piping option and appurtenances
- Create profiles
- Design in-town sewer interconnects
- UPRR Crossing
  - Design boring
  - Permit boring
  - Coordinate with contractor on preferred boring method
- SR 6 crossing
  - Determine UDOT requirements
  - Design crossing/casings
  - Apply for permit
- Design details
- Create plan and profile sheets; add notations
- Develop specifications
- Perform QA/QC check
- Make final corrections
- Apply for UDEQ permit
- Request and review change order pricing from Contractor
- Prepare change order

**Assumptions**

- No separate construction contract docs – this will be a change order to the existing WRF construction contract with Contractor.
- City will obtain access and easements
- CA service for the conveyance will be performed under the existing CA contract; no additional time is currently anticipated.

**PAYMENTS TO ENGINEER – Time and Materials**

Engineers Fee for Scope of Services is shown in attached table payable on a not to exceed Time and Materials basis in accordance with Article 4.01A of the July 5, 2006 Agreement for Professional Services.

**PROVISION TO AMEND THE AGREEMENT AND WRITTEN AUTHORIZATION**

In the event a change in scope occurs and a corresponding change in fee is required, the Scope of Services, associated fee, and schedule can be amended. Engineer is authorized to manage the overall total budget and notify the City when 75 percent of the total budget has been expended. Services and project requirements can be requested by Santaquin City under Article 1.01 and 2.01A of the Agreement for Professional Services dated July 5, 2006. In the event a change in scope, schedule, or fee is required,

notice will be given in accordance with Article 3.01B and Article 6.11 of the Agreement for Professional Services dated July 5, 2006.

**SCHEDULE**

It is anticipated that Task 500 will begin upon authorization by Santaquin City. It is anticipated Task 500 will be substantially complete by September 1, 2012.

**CLIENT:**

Designated Representative  
(Paragraph 6.02A of July 5, 2006  
Agreement)

Signature: Jim Edrington

Title: Mayor

Phone: 801-754-3211

Fax: 801-754-1620

E-mail: jedgraffenried@  
Santaquin.org

**J-U-B:**

Designated Representative  
(Paragraph 6.02A of July 5, 2006  
Agreement)

Signature: Jason P. Willes

Title: Drem Area Manager

Phone: 801-226-0393

Fax: 801-226-0394

E-mail: jwilles@jub.com

