



Hazen and Sawyer
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May 12, 2017

Clece Aurelus, PE
CITY OF HOLLYWOOD
Department of Public Utilities
Engineering and Construction Services Division
Post Office Box 229045
Hollywood, FL 33022

Re: Southern Regional WWTP – RAS Pump Station No. 1 Replacement

Dear Mr. Aurelus:

As requested, Hazen and Sawyer, P.C. (CONSULTANT) is pleased to offer engineering services for the Return Activated Sludge Pump Station No. 1 replacement project at the Southern Regional Wastewater Treatment Plant (SRWWTP).

BACKGROUND

Existing RAS Pump Stations No. 1 and No. 2 were constructed in 1973 and are critical to the proper functioning biological process at the wastewater treatment plant. Previously, CONSULTANT completed design, permitting, and bid services for the replacement of RAS Pump Station No. 2. Construction is currently underway and is scheduled to be completed in May of this year. Similar to RAS Pump Station No. 2, much of the mechanical and electrical equipment at RAS Pump Station No. 1 has also reached the end of its useful life and requires replacement. It is the scope of this project to replace the pumps, motors, valves, variable frequency drives, motor control center, disconnects, walkway, and perform other miscellaneous repairs within the station. The City has also requested that the scope of this project include repairs to leaks and/or cracks that are currently visible in the exterior of the oxidation basins.

SCOPE OF SERVICES

Task 1 – Detailed Design

CONSULTANT will evaluate the existing RAS Pump Station No. 1 for the purpose of preparing design documents suitable for bidding. The evaluation shall include the following items:

- in-kind replacement of pumps, VFDs, disconnects, and MCC
- replacement of internal pump station valves and piping (up to wall pipes)
- replacement of motorized operated pinch valve on 6-inch WAS line
- location/replacement of 18-inch RAS pump discharge valves on the east side of the pump station

- location/replacement of 12-inch WAS isolation valve on the east side of the pump station
- interior and exterior painting of the pump station
- replacement of the pump station roof and interior walkway
- replacement of interior pump station walkway to meet regulatory requirements
- repairs to the effluent trough next to RAS Pump Station No. 1

Tie-in of equipment will be made to existing PLC-7. Contract Documents (plans and specifications) for bidding/construction shall be prepared. Plans and specifications will also include repair details for existing leaks and/or cracks in the exterior of the Oxidation Train Nos. 1 and 2.

Task 2– Cost Opinion

CONSULTANT shall provide a cost opinion on the project budget at the 90 percent design stage.

Task 3– Meetings

CONSULTANT shall attend one review meeting at the 90 percent design stage. CONSULTANT shall prepare meeting notes summarizing the key discussion points and provide an electronic PDF copy to City.

Task 4 – Bid Phase Services

CONSULTANT shall provide assistance to the City during the bidding phase for the project. Activities to be performed are as follows:

- Prepare a bidder's package for distribution with the Contract Documents by the City
- Attend a pre-bid conference
- Prepare meeting minutes and provide an electronic copy to City for distribution to attendees
- Reply to bidders' questions
- Draft up to two addenda addressing the technical specifications and drawings for City distribution
- Review the Bid Proposal form
- Prepare a Bid Tabulation
- Check contractor references of the lowest responsive bidder
- Issue a recommendation of award

Contract document packages will be produced and sold by the City.

KEY ASSUMPTIONS

- Surveying services, underground utility locates and geotechnical investigations are not envisioned.
- Previous plans and specifications in their present format will be used to the extent possible.
- Existing underground electrical conduit, electrical feeds, MCC building, lighting, air conditioning, hatches, MCC building and roof is adequate and will not require expansion or replacement.
- City of Hollywood Building Department permitting and related permitting fees are anticipated to be addressed by City staff. H&S will respond to related Hollywood Building Department RFT's prior to bidding. No other permitting is anticipated or included.
- No owner-furnished / pre-purchasing of equipment is anticipated. No prequalification of contractors or subcontractors is anticipated.
- The design approach will address minimal downtime of the existing operating facilities to the extent possible.
- Value engineering and other outside reviews (other than City staff review) are not anticipated.
- No local minority business enterprise or local small business enterprise participation is envisioned.
- The City will competitively bid the project and enter into an agreement with an outside Contractor to complete the work. No prequalification of Contractors will be performed.
- The development of conformed contract documents will be performed by others.
- Services during construction will be included under a separate work order.

COMPENSATION

The engineering services for this project will be performed on a lump sum basis for the amount of \$74,466. A fee breakdown is attached.

SCHEDULE

Engineering services will be completed within four (4) months from receipt of the Notice-to-Proceed and requested data.

Engineering services for the project will be performed as part of our Professional Services Agreement for General Engineering Consultant Services (Agreement) dated February 2003. Services provided by Hazen and Sawyer, P.C. shall be limited to those services specifically identified in this work order.



Clece Aurelus, PE
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We look forward to your reply. In the meantime, should you have any questions, please contact us.

Very truly yours,

HAZEN AND SAWYER,

J. Philip Cooke, P.E.
Senior Associate

c: File No. 4321-016/1.0

Attachment

CITY OF HOLLYWOOD
SOUTHERN REGIONAL WASTEWATER TREATMENT PLANT
RAS Pump Station No. 1 Replacement
Cost Breakdown

Tasks	Senior					Subtotal	Cost
	Associate	Associate	Engineer	Engineer	Secretary		
LABOR							
Task 1 - Detailed Design	18	40	120	44	0	350	\$ 52,891
Task 2 - Cost Opinion	2	4	4	4	4	18	\$ 2,752
Task 3 - Meetings	12	6	6	0	0	24	\$ 4,759
Task 4 - Bid Phase Services	16	0	40	0	40	96	\$ 13,314
Subtotal	48	50	170	48	44	488	\$ 73,716
DIRECT EXPENSES							
Reproduction							\$ 500
Out-of-pocket							\$ 250
Subtotal							\$ 750
Total (Lump Sum)							\$ 74,466

Maximum Hourly Raw Labor Rate*
* Overall multiplier = 3.2