



**SUPPLEMENTAL WORK ORDER
for the CITY OF CLEARWATER**

Date: September 06, 2016

Project Number: 60447464

City Project Number: 15-0038-UT

1. PROJECT TITLE:

Lift Stations 7 & 8 Improvements – Services during Construction.

2. SCOPE OF SERVICES:

The project provides for limited services during construction (shop drawings review and responses to requests for information (RFIs) from the construction contractor only) for the Lift Stations (LS) 7 and 8 Improvements Project. The lift stations are owned and operated by the City of Clearwater (CITY).

Task 1 - Services during Construction

AECOM will attend the pre-construction conference. The purpose of AECOM attendance is to answer technical questions with respect to the design. AECOM will not be responsible for questions or providing information involving the contract between the CITY and the Contractor.

AECOM will review and approve up to forty (40) of the Contractor submitted shop drawings for the project. AECOM will review the Contractor submitted shop drawings up to two (2) times each.

AECOM will attend up to seven (7) progress meetings during construction. The purpose of AECOM attendance is to answer technical questions with respect to the design.

During construction AECOM will review and respond up to twelve (12) Contractor or CITY generated RFIs. All responses will be in writing and will be submitted to the CITY for its transmittal to the Contractor.

AECOM will attend the final inspection of the two lift stations.

3. PROJECT GOALS:

The project goal is to rehabilitate LS 7 and LS 8 and bring them up to current City standards. The project will provide limited services during construction (shop drawings review and responses to requests for information (RFIs) from the construction Contractor only).

4. BUDGET:

See Attachment "B"

This price includes all labor and expenses anticipated to be incurred by AECOM for the completion of these tasks in accordance with Professional Services Method "A" – Cost Times Multiplier Basis, **for a fee not to exceed Seventeen Thousand Nine Hundred and Ten Dollars (\$17,910.00).**

5. SCHEDULE:

The project is to be completed 210 calendar days from issuance of Notice-to-Proceed.

6. STAFF ASSIGNMENT (Consultant):

Officer-in-Charge: Dana K. Tallman, P.E.

Project Manager: Bozhidar Handjiev, P.E.

Admin Assistant: Lisa Lanier

7. CORRESPONDENCE/REPORTING PROCEDURES:

ENGINEER's project correspondence shall be directed to Bozhidar Handjiev, P.E. All CITY project correspondence shall be directed to Khang Nguyen, P.E. with copies to others as may be appropriate.

8. INVOICING/FUNDING PROCEDURES:

For work performed, invoices shall be submitted monthly to the City of Clearwater, Engineering Department, Attn.: Veronica Josef, Senior Staff Assistant, PO Box 4748, Clearwater, Florida 33758-4748.

City Invoicing Code: 0315-96686-561300-535-000-0000

9. INVOICING PROCEDURES

At a minimum, in addition to the invoice amount(s) the following information shall be provided on all invoices submitted on the Work Order:

- A. Purchase Order Number and Contract Amount.
- B. The time period (begin and end date) covered by the invoice.
- C. A short narrative summary of activities completed in the time period
- D. Contract billing method – Lump Sum or Cost Times Multiplier
- E. If Lump Sum, the percent completion, amount due, previous amount earned and total earned to date for all tasks (direct costs, if any, shall be included in lump sum amount).
- F. If Cost Times Multiplier, hours, hourly rates, names of individuals being billed, amount due, previous amount earned, total earned to date for each task and other direct costs (receipts will be required for any single item with a cost of \$50 or greater or cumulative monthly expenses greater than \$100).
- G. If the Work Order is funded by multiple funding codes, an itemization of tasks and invoice amounts by funding code.

10. SPECIAL CONSIDERATIONS:

The consultant named above is required to comply with Section 119.0701, Florida Statutes (2013) where applicable.

PREPARED BY:

Dana Tallman, PE
Vice President
AECOM

Date

APPROVED BY:

Michael D. Quillen, PE
City Engineer
City of Clearwater

Date

SUPPLEMENTAL WORK ORDER

CITY OF CLEARWATER DELIVERABLES STANDARDS

FORMAT:

The design plans shall be compiled utilizing one of the following standards:

City of Clearwater CAD standards or Consultant's CAD standards (please provide all supporting documents when utilizing Consultant's Standards).

DATUM:

Horizontal and Vertical datum shall be referenced to North American Vertical Datum of 1988 (vertical) and North American Datum of 1983/90 (horizontal). The unit of measurement shall be the United States Foot. Any deviation from this datum will not be accepted unless reviewed by City of Clearwater Engineering/Geographic Technology Division.

DELIVERABLES:

A minimum of two (2) signed and sealed Plans and Contract Documents (specifications book) labeled "ISSUED FOR BID" shall be provided at the onset of the bid phase, as well as electronic copies. Electronic plan copies in PDF and CAD and electronic contract documents in PDF and MS Word.

The design plans shall be produced on bond material, 24" x 36" at a scale of 1" = 20' unless approved otherwise. The consultant shall also deliver all digital files in CAD drawing format and PDF format together with all project data in AutoCAD Civil 3D file format. All references, such as other drawings attached, images and graphic files, custom fonts and shapes shall be included in hard copy and electronic copy.

Prior to the City Council award date, a minimum of two (2) copies of signed and sealed plans and contract documents (specifications book) labeled "CONFORMED" shall be provided. All revisions made during the bid phase shall be included in the plan sets and noted in the revision block or as a footnote. Copies of each Addendum shall be included at the front of the contract and all revisions made during the bid phase shall be incorporated into the Contract Documents.

Electronic copies of "CONFORMED" plans (PDF and CAD) and contract documents (PDF and MS Word) shall be provided prior to the City Council award date.

NOTES:

- If approved deviation from using Clearwater CAD standards, the consultant shall include all necessary information to aid in manipulating and printing/plotting the drawings. Please address any questions regarding file format to Mr. Tom Mahony, Geographic Technology Manager, at (727) 562-4762 or email address: tom.mahony@myclearwater.com.

Attachment "B"

LIFT STATIONS 7 AND 8 IMPROVEMENTS PROJECT
(15-0038-UT)



**SUPPLEMENTAL WORK ORDER
PROJECT BUDGET**

Task	Description	Subconsultant Services	Labor	Total
1	Services during Construction			
1.1	Services during Construction	\$3,500	\$13,910	\$17,410
Subtotal, Labor and Subcontractors				\$17,410
Other Direct Costs (prints, photocopies, postage, etc.) (Not applicable to lump sum Work Orders)				\$500
Grand Total				\$17,910

REVIEW PERIOD SUBMITTAL REQUIREMENTS

This list is intended as a guideline of the items to be completed at various levels of project completion. The specific list for each project shall be finalized in the work order.

30% Construction Plans

Requirements for the 30% submittal shall include the following:

- Cover Sheet,
- Legend and Abbreviations per City standards,
- Key Sheet,
- Demolition Plans indicating existing improvements, utilities, and topography, and identification of trees to be removed,
- Preliminary layout of the proposed improvements, existing right-of-way and easements, subdivision, block, and lot number, and plat book and page for adjacent parcels,
- Engineer's/Architect's preliminary opinion of probable construction cost, based on the 30 % submittal.

60% Construction Plans

In addition to the items in the 30% submittal, requirements for the 60% submittal shall include the following:

- General Construction Notes related to best management practices, utilities, and other conditions relevant to the project,
- Typical pavement sections shall indicate typical cross sectional slopes, median improvements, pavement requirements, right-of-way lines, sidewalks, curbs, gutters, and landscaped areas,
- Grading, Paving, and Drainage detail sheets, including standard and nonstandard stormwater management structures, retaining walls, and related notes,
- Erosion control and tree protection details, including best management practices applied to the project,
- Existing private utilities, as available, such as gas, electrical, telephone, fiber optic, and cable TV,
- Detailed Cross Sections,
- Wetland Planting Plans and Details,
- Utility Plan including utility relocation/adjustment details indicating utility conflicts, relocation design, proposed utility structures, and conflict manholes, design details, and specific profiles, if required,
- Permit Applications,
- Estimated construction quantities,
- Engineer's/Architect's updated opinion of probable construction cost and duration based on the 60% design submittal, and
- Engineer/Architect will review City's standard technical specifications and modify or supplement as necessary for the project.

90% Construction Plans

The 90% construction plans shall include the design items required for the construction of the project, including the special provisions and technical specifications. In addition to the items in the 60% submittal, requirements for the 90% submittal shall include the following:

- a. Maintenance of Traffic Plan,
- b. Structural plans, details, and calculations, including design and details of shallow foundations, pedestrian bridge abutments, retaining walls, structural reinforcing, tiebacks, and stability analyses for slopes and retaining walls,
- c. Detailed construction quantities based upon 90% design,
- d. Engineer's/Architect's updated opinion of probable construction cost and duration based on the 90% design submittal, and
- e. Technical specifications and Special Provisions.

Final (100%) Construction Documents

The 100% submittal shall address the City's final review comments.

Engineering Projects prepared and/or submitted shall be reviewed and checked by a civil engineer registered in the state of Florida as the Engineer of Record. The Engineer of Record shall sign, seal and date the design calculations, technical specifications and contract drawings as required by Florida law.

See Attachment "A" – Deliverables – for specific labeling requirements.