

PORT ST. LUCIE CITY COUNCIL
AGENDA ITEM REQUEST

COUNCIL ITEM 7L
DATE 9/10/12

Meeting Date: September 10, 2012

Public Hearing _____ Ordinance _____ Resolution _____ Motion X

Item: #20120022, CO #1 Andersen Andre Consulting Engineers, Inc., Southport Water Main Replacements (SP WM) , add Phase 2, North Area 6

Recommended Action:

- 1) Approve Change Order #1 Contract #20120022 with Andersen Andre Consulting Engineers, Inc. for \$28,036.00 for the Geotechnical Testing Services Phase 2, North Area for replacement of City Water Mains and add 80 calendar days.

Exhibits: Department memo attached - yes

Copies of the Change Order and proposal from Consultant

Summary Explanation/Background Information:

The City has determined that it is necessary to replace the water transmission mains in targeted areas within the City. Andersen Andre Consulting Engineers, Inc., is pre-qualified for this type of service under Master Contract #20070116 and was the geotechnical engineer for Phase I of this project. Therefore, to ensure an expedited project staff recommends awarding the attached change order.

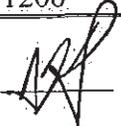
Purchase is a replacement

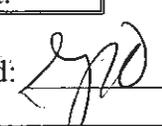
Purchase was not budgeted.

Estimated Testing Expense: \$28,036.00

Department requests expenditure from the following:

Fund	447	Pipe Replacement
Cost Center	3316	Utility - Improvements O/T Bldgs.
Object Code	56304	Improvements-Design/Geo
Project	Y1206	Water Main Replacement Project.

Director of OMB concurs with award: 

City Manager concurs with award: 

Department requests 0 minutes to make a presentation.

Submitted by: *Jesus Merejo*

Title: Director of Utilities

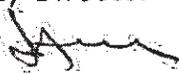
Date Submitted: 8/30/12

RECEIVED

AUG 31 2012

City Manager's Office

INTEROFFICE MEMORANDUM

TO: Cheryl Shanaberger, OMB Deputy Director
FROM: Jesus A. Merejo, Utility Director 
SUBJECT: Southport Water Main Replacements, PSLUSD Project # 25.0006
Anderson Andre Consulting Engineers, Inc. Contract #20120022
Change Order #1 – North Area 6
DATE: August 20, 2012

Project Description: The City has identified additional portions of Southport neighborhoods that have aging GDC/GDU era water mains that need to be replaced with more reliable materials. This includes replacing water mains, fire hydrants and all residential services within the project boundaries that encompass the portion of Port St. Lucie Unit 5 that is north of Port St. Lucie Blvd., Village Green Drive north of Walton Road, and along Blossom Ave. and Mantua Street (shown as North Area 6 on the attached map).

Background: Anderson Andre Consulting Engineers, Inc. has performed the geotechnical services throughout the currently authorized water main replacement project. The experience they have gained to date on this project with regards to soil types and water table elevations is invaluable and would be of great benefit to the City as we proceed into North Area 6. Some of the testing and results they have already acquired can be applied to the North Area 6 project areas, thereby possibly reducing the number of tests required and resulting in a cost savings.

Recommendation: Please consider this memo as a recommendation for the City Council to approve the Change Order #1 for Anderson Andre Consulting Engineers, Inc. in the amount of \$28,036.00 with an additional 80 calendar days.

Justification: The subject change order is expected to result in a cost savings as noted above. The firm also has a good understanding of the goals of the City staff and is working well with the other consultants involved with this project. The work has been determined by City staff to require resources, expertise and time that the City does not currently have at our disposal.

Funding: Funds are available in 447-3316-563004-Y1206.

If there are any questions, please contact Laney Southerly, PE at 873-6442.

Attachments:

c: Brad Macek, Asst. Utility Systems Director
Daniel Segui, Deputy Utility Systems Director
Laney Southerly, PE, Utility Engineering Mgr.
Lisa Campbell, Commercial Development Mgr.
Jeanette Thompson, Budget & Procurement Mgr.
Jeff Labigang, Distribution & Collection Mgr.

CHANGE ORDER

No.: Change Order # 1

PROJECT: City of Port St. Lucie DATE OF ISSUANCE: _____

OWNER: City of Port St. Lucie OWNER's Project No.: 25.0006
 121 SW Port St. Lucie Boulevard
 Port St. Lucie, Florida 34984

CONTRACTOR: Anderson Andre Consulting Engineers, Inc. ENGINEER: City of Port St. Lucie
 ENGINEER's Project # 25.0006

CONTRACT FOR: Southport Water Main Replacements - Phase 2

You are directed to make the following changes in the Contract Documents.

Description: City of Port St. Lucie Contract No. 20120022

Purpose of Change Order:

1. Increase contract time to allow for construction of the proposed work.
2. All other contract provisions/addenda remain in full force & effect.

See Attached Memos & Price Proposals

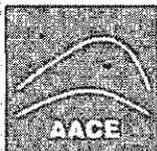
CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price \$ <u>136,450.00</u>	Original Contract Time <u>570 July 4, 2013</u> days or date
Previous Change Orders No. 0 through 1 \$ <u>-</u>	Net change from previous Change Orders <u>0</u> days
Contract Price prior to this Change Order \$ <u>136,450.00</u>	Contract Time prior to this Change Order <u>570 July 4, 2013</u> days or date
Net Increase (Decrease) of this Change Order \$ <u>28,036.00</u>	Net Increase (Decrease) of this Change Order <u>80</u> days
Contract Price with all approved Change Orders \$ <u>164,486.00</u>	Contract Time with all approved Change Orders <u>650 September 22, 2013</u> days or date

RECOMMENDED:

APPROVED:

By _____
Engineer

by _____
City



ANDERSEN ANDRE CONSULTING ENGINEERS, INC.

Geotechnical Engineering
Construction Materials Testing
Environmental Consulting

AACE Proposal No. P12-172
August 8, 2012

City of Port St. Lucie Utility Services Department
121 SW Port St. Lucie Blvd.
Port St. Lucie, Florida 34984

Attention: Ms. Lisa Campbell

**Subject: REQUEST FOR CHANGE ORDER NO. 1
CONSTRUCTION MATERIALS TESTING SERVICES
WATER MAIN REPLACEMENT - PHASE II
PORT ST. LUCIE, FLORIDA**

Dear Ms. Campbell:

As requested, Andersen Andre Consulting Engineers, Inc. (AACE) is pleased to present this request for Change Order No. 1 for construction materials testing services relative to the City's water main replacement project. AACE is currently providing testing on the project (currently estimated to be approximately 202,985 l.f. of piping); we understand that an additional phase of water main installation (preliminarily termed "Phase II") is currently planned and will consist of an additional 39,664 l.f. of piping.

Based on our experience with the on-going phase of water main installation, we have tentatively estimated that Phase II could have a duration of approximately 12-16 weeks. The project also entails the installation of numerous valves and hydrants, and the removal/replacement of numerous sidewalks, ADA ramp sections and curbing. However, based on current construction efforts, density testing of soil around valves and hydrants, and beneath curbing and sidewalk will not be requested of us.

We understand that a modified testing frequency (relative to the City of Port St. Lucie's Utility Standards Manual) will be utilized for this project in an effort to conserve budget. Preliminarily, we understand that density testing frequencies may be relaxed to one test per 750-1,000 l.f. of piping, with a minimum of two tests per lift for road crossings. Using these criteria, we estimate the cost of our services to be approximately \$28,036.00. The attached summary presents an estimate of the number of man-hours, tests and costs associated with this project. The actual cost of AACE's testing services will be a function of work actually performed in accordance with the attached unit fee schedule.

If you have any questions or if we can provide any additional information, please feel free to contact us at your convenience.

Best Regards,
ANDERSEN ANDRE CONSULTING ENGINEERS, INC.

David P. Andre, P.E.
Principal Engineer

Peter G. Andersen, P.E.
Principal Engineer

Hourly and Testing Charges:

The following was used as a basis for testing quantities:

- ▶ 39,664 l.f. of pipe to be installed;
 - ▶ Testing frequency: 1 test per every 750 l.f. of pipe for each 12" lift (assume 5 lifts);
 - ▶ No density testing of soil along sides of pipes;
 - ▶ Additional tests necessary for road crossings (minimum of 2 tests per lift for road cuts);
 - ▶ Limited density testing and concrete testing during driveway restorations, to be directed by CPSLUSD personnel;
1. In-place soil density testing [Water Main]:
 - ▶ 39,664' of piping/750' testing freq. x 4 lifts:
= 225 in-place soil density tests (estimated) @ \$23.00/test \$5,175.00
 - ▶ Additional tests for road cuts; 75 tests @ \$23.00/test \$1,725.00
 2. Man-Hours [pipe trench inspection, road cuts, etc.]; Based on the man-hours needed for the period of January 9, 2012 through July 20, 2012, an AACE technician has been required on-site for an average of 11 hours/week. We have assumed a similar need for Phase II.
 - ▶ 16 weeks x 11 hours/week @ \$55.00/hour \$9,680.00
 3. Senior Project Engineer (includes weekly progress meeting attendance, testing review, consulting, etc.)
 - ▶ 16 weeks x 4 hours/week @ \$110.00/hour \$7,040.00
 4. Technical Secretary;
 - ▶ 16 weeks x 2 hours/week @ \$48.00/hour \$1,536.00
 5. Laboratory Testing;
 - ▶ Modified Proctor Test; 10 tests @ \$85.00/test \$850.00
 - ▶ LBR Tests (base rock and stabilized subgrade); 4 tests @ \$295.00/test \$1,180.00
 6. Concrete Testing (driveway repair):
 - ▶ 10 sets of Concrete Specimens @ \$85.00/set \$850.00

Anticipated Project Cost \$28,036.00

The following conditions apply to this project:

- (1) For non-full time or hourly projects, a minimum of 4 density tests will need to be performed per hour, per visit to the site.
- (2) Stand-by time will be charged at \$55.00/hour per technician (\$82.50/hour for after-hours, holidays and/or weekend testing services).
- (3) We note that density testing frequencies are based on City requirements and our experience with similar projects and anticipated contractor methodologies. Allowances for re-tests (from failing density tests) are not included herein.
- (4) The contractor should contact Andersen Andre Consulting Engineers, Inc. at (772) 807-9191 a minimum of 24 hours prior to any testing and 48 hours prior to weekend and evening work.
- (5) Unit rates apply to standard working days, Monday through Friday, 7:00 a.m to 6:00 p.m. Testing and hourly rates will be increased by 50% for weekend, holiday or after-hours services.
- (6) If our testing estimate for a specific work element is insufficient for that particular activity, resources from another work element can be used without prior authorization from the client as long as our total cost estimate is not exceeded. We will notify you in advance if it appears that the cost estimate presented in the attached unit fee schedule will be exceeded.
- (7) Soil sample and concrete cylinder pickup for laboratory testing (e.g., Proctor, FBV, LBR testing, compressive strength, etc.) will be billed at \$55.00/hour if not scheduled with other work.
- (8) Bacteriological testing of water ("bact's") and asphalt testing are not included herein.
- (9) AACE's budget is based upon the construction schedule stated herein. If this schedule changes (i.e., weekend work, evening work, or if the project takes longer than the anticipated 12 weeks), this proposal will likely require modification to include additional man-hours to accommodate such changes.
- (10) We understand that no density log book will be required for this project.