September 17, 2012

RE: Bid Title: Request for Proposals for Lafayette Street Sidewalk and Roadway Improvements
Bid No: BC-11-15-12-02
Opening Date: Thursday, November 15, 2012 at 1:00 p.m. Eastern Time

ADDENDUM #1

Dear Vendor:

This letter serves as Addendum #1 for the above referenced project.

The scope of this project is expanded to include the Water and Wastewater Utility Adjustments and Relocation Work. The enclosed “Design/Build Criteria Package for Lafayette Street Water and Wastewater Utility Adjustments and Relocations” is added as an attachment to the draft RFP. This attachment is a draft and may be revised prior to the issuance of the final RFP. Additionally, any revisions to the draft RFP that are necessitated by the inclusion of this attachment, will be incorporated into the Final RFP that will be released to all short-listed vendors. See the enclosed attachment to the Draft RFP document.

Acknowledgment of this addendum is required as part of your bid submittal. Failure to acknowledge this addendum may result in rejection of your bid.

Should you have any questions, feel free to call me at (850) 606-1600.

Sincerely,

Shelly Kelley
Shelly Kelley, PMP
Purchasing Director

SWK
DESIGN/BUILD CRITERIA PACKAGE

For

Lafayette Street Water & Wastewater Utility Adjustments and Relocations

Financial Projects Number(s): 430154-1-58-01
Federal Aid Project Number(s): 4046-052-C

RFP Number: BC-11-15-12-02
1.0 REFERENCES
The following references are directly associated with this design-build criteria package and as such are binding on the Design-Build Firm:

- City of Tallahassee Standard Specifications for the Design and Construction of Water and Wastewater Facilities, June 29, 2010, edition. All sections of this specification apply except Section 1 (General Conditions).
- Recommended Standards for Water Works, 2007 edition, Parts 1.0, 1.2, 1.3, 1.4, 1.5, 1.6, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11, 8.12, and 8.13.

2.0 ABBREVIATIONS
City          city of Tallahassee
CR 2196   county road number 2196, locally known as Lafayette Street
FDEP       Florida Department of Environmental Protection
FDOT       Florida Department of Transportation
JPA          joint project agreement
OSHA     federal Occupational Safety and Health Administration
RFP          request for proposal
SUE         subsurface utility engineering

3.0 SCOPE OF WORK
Perform the following water and wastewater adjustment/relocation utility in conjunction with the roadway and drainage work prescribed in other parts of this RFP. The City and Leon County will enter into a JPA to accomplish the water and wastewater adjustment/relocation utility work integrally with the roadway and drainage work of the contract.

a) conduct design survey
b) design water and wastewater adjustment and relocations
c) prepare technical plan/profile designs
d) prepare special project specifications
e) secure permits from Leon County, City, and FDOT (note that FDEP water and wastewater permits are not required since the City is self-permitting)
f) adjust water valve covers and wastewater manhole tops
g) reconnect of water services displaced by storm drains or structures
h) move and re-install water meter boxes and backflow preventers
i) relocate wastewater mains to avoid conflicts with storm drains or structures
j) reconnect wastewater laterals and cleanouts displaced by storm drains or structures
k) by-pass pump wastewater
l) extend fire hydrant leads
m) relocate fire hydrants
n) replace any existing fire hydrants that are obsolete or non-functional
o) install new 8-inch ductile iron water main and appurtenances to replace existing 6-inch cast iron water main
p) install temporary water lines
q) replace existing 2-inch water mains with 6-inch ductile iron main and appurtenances
r) pressure test and disinfect potable water mains
s) pressure test wastewater mains
t) trench safety per OSHA
u) dewater trenches
v) support nearby utility poles or pipes
w) conduct construction survey and layout
x) prepare asbuilt record drawings

4.0 RECORDS SEARCH
The designer shall research all pertinent City Underground Utility Department records including but not limited to, the following:

- Underground Utilities Geographic Information System (available from City Staff)
- Water Tie Sheets (available from City Staff)
- Leon County I-Maps (available on Internet)
- Underground Utility Department Utility Asbuilt Record Drawings (available from City Staff)
- Master Sewer Plan (available from City Staff)
- Master Water Plan (available from City Staff)
- Pipeline condition CCTV logs (available from City Staff, as “POSM reports”)

Primary City Staff Contact Person:
S. G. Arnaldo, P.E.
408 North Adams Street
Tallahassee, Florida 32301
Fax (850) 891-6170
Office (850) 891-6182
Cell (850) 694-8005
Email: sal.arnaldo@talgov.com

5.0 UTILITY LOCATION REQUEST
The designer must conduct a comprehensive investigation of all nearby existing and proposed utilities in order to avoid possible conflicts. This shall include, but not be limited to, the following utilities:
- Gas
• Telephone
• Underground and Overhead Electric
• Cable TV
• Fiber Optic
• Storm Drain

6.0 FIELD INVESTIGATION
Field investigations including geotechnical investigation, SUE, and evaluating potential for potential contamination shall be conducted for water and wastewater main design, as necessary.

6.1 Geotechnical Investigation
The design and construction of water and wastewater mains must account for the variability of the uncertain subsurface conditions, and the potential project cost associated with the variability. A geotechnical investigation shall be conducted prior to submitting a proposal for this project so that the Design-Build Firm satisfies itself of the true nature of site conditions.

6.2 Subsurface Utility Engineering
Obtain reliable subsurface utility information. All existing utilities shall be designated and marked by a well-trained, experienced SUE provider prior to initiation of survey for design.

6.3 Evaluating Potential for Contamination
The designer shall evaluate all available resources to identify any potential environmental issues, including possible soil or groundwater contamination, during the design phase of the project. The designer shall follow the guidelines as specified by FDEP.

7.0 PERMITS AND LICENSES
At the Design-Build Firm’s own expense, secure all necessary utility accommodation, historic preservation, wildlife, wetland resource, environmental management permits, and authorizations from local, state, and federal agencies having jurisdiction over the project. The City is self-permitted through FDEP for all water and sewer system pipelines that are less than or equal to 12-inches of inside diameter.

8.0 REMOVAL OF EXISTING 6-inch CAST IRON WATER MAIN
The existing 6-inch cast iron main and appurtenances shall be removed and disposed of by the Design-Build Firm. Salvageable appurtenances such as gate valves and fire hydrants shall be delivered to the City Water Operation Yard on Jackson Bluff Road – to be used for parts.

9.0 WARRANTY
Warrant all materials and workmanship against defects for a period commencing on the day of
final acceptance of the project by Leon County and extending two-years henceforth. All manufacturers’ special warranties for the various utility components shall be made transferable to the City upon final acceptance of the project by Leon County.

10.0  **RECOMMENDED SCHEDULE OF VALUES**
The following minimum item description and units of measure are recommended by the City for submittal of the Contractor’s Schedule of Values, after award of the contract.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>1500H</td>
<td>6&quot; Ductile Iron Water Pipe (and other sizes as needed)</td>
<td>LF</td>
</tr>
<tr>
<td>1500J</td>
<td>8&quot; Ductile Iron Water Pipe</td>
<td>LF</td>
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<tr>
<td>3610J</td>
<td>8&quot; Ductile Iron Wastewater Pipe</td>
<td>LF</td>
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<tr>
<td>5050</td>
<td>Water Service (Sizes 3\4 inch to 2-inch)</td>
<td>EA</td>
</tr>
<tr>
<td>5100H</td>
<td>6&quot; Gate Valve</td>
<td>EA</td>
</tr>
<tr>
<td>5100J</td>
<td>8&quot; Gate Valve</td>
<td>EA</td>
</tr>
<tr>
<td>5110HxH</td>
<td>6&quot;x6&quot; Tapping Sleeve (and other sizes as needed)</td>
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<tr>
<td>5120H</td>
<td>Remove, Salvage, &amp; Deliver 6&quot; Valve</td>
<td>EA</td>
</tr>
<tr>
<td>7836</td>
<td>Adjustment of Wastewater Manholes Lid In Adv. of Resurfacing</td>
<td>EA</td>
</tr>
<tr>
<td>20430</td>
<td>Install Fire Hydrant Extension</td>
<td>EA</td>
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<tr>
<td>20440</td>
<td>Remove Fire Hydrant Extension</td>
<td>EA</td>
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<tr>
<td>20620</td>
<td>Replace Existing Wastewater Lateral Cleanout</td>
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<tr>
<td>20670</td>
<td>Abandon Water Service Off Existing Main</td>
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<td>20680</td>
<td>Abandon Wastewater Lateral Off Existing Main</td>
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<tr>
<td>20700</td>
<td>Adjust Existing Wastewater Lateral</td>
<td>EA</td>
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</tbody>
</table>

11.0  **SUPPLEMENTAL CONSTRUCTION DETAILS**
In addition to the construction details found in the City Standard Specifications, the following supplemental construction details are included in this RFP and are binding on the Design-Build Firm.

The following details are attached to the end of this document and denoted as
“SUPPLEMENTAL WATER & WASTEWATER CONSTRUCTION DETAILS.”

FH-1     Fire hydrant Detail  
WM-01    Existing Water Main Tie-in Connection with Future Extension Provision  
WM-02A   Restraint Lengths for Horizontal Bends  
WM-02B   Restraint Lengths for Reducers  
WM-02C   Restraint Lengths for Caps and Plugs  
WM-02D   Restraint Lengths for Valves  
WM-02E   Restraint Lengths for Tees  
WM-02F   Restraint Lengths for Vertical Offsets  
WM-03    Reverse Connection at Water Main  
UA5002   Pipe Encasement for Crossing with less Than 12-inch Vertical Separation  
UA6001   Standard Water Main Lowering  
UA7012   Two-way Sanitary Sewer Cleanout  
UA 7018  Sewer Service Lateral Disconnection on Existing or New Roadway
NOTES:

1. HYDRANT TO BE PLACED WITH PLUMPER NOZZLE FACING STREET.
2. APPROVED MODELS ARE MUELLER A423, M/I. RELIANT 929, AMERICAN FLOW HYDRANT B-84-B-5, AND CLOW MEDALLION. NO SUBSTITUTES WILL BE ALLOWED.
3. VALVE OPENING 5 1/4" MINIMUM.
4. SIX INCH MJ CONNECTION TO MAIN.
5. HOSE NOZZLES: NATIONAL STANDARD THREADS WITH TWO 1/2" HOSE NOZZLES AND ONE STEAMER NOZZLE WITH 5" OPENING AND STORZ CONNECTION WITH CAP ON NOZZLE.
6. ALL PIPE FROM MAIN TO HYDRANT SHALL BE RESTRAINED DUCTILE IRON. NO SUBSTITUTES.
7. HOSE THREAD SHALL BE NATIONAL STANDARD THREADS. SIX THREADS TO ONE INCH, V-TYPE, 288 PITCH, 5.375" O.D..
8. STEAMER SHALL BE STORZ CONNECTION WITH CAP.
9. HYDRANT PLACEMENT:
   CURB AND GUTTER STREET - AS NOTED PER PLANS
   OPEN DITCH STREET - TOP OF RACKSLOPE OF DITCH, ON THE RW LINE AND OR PROPERTY CORNER, (MAX. 10' FROM DRIVING SURFACE)
10. ALL JOINTS TO BE RESTRAINED. MAIN MECHANICAL JOINTS MAY BE RESTRAINED WITH CLOW F-1058 RETAINER GLANDS, 304 STAINLESS STEEL THREADED RODS WITH EYE BOLTS, OR MEGA LUGS.
11. FIRE HYDRANT TEE MAY BE USED IN LIEU OF MECHANICAL TEE.
12. COMPACTION WILL BE 100% STANDARD PROCTOR.
13. DEPTH OF PIPE TO HAVE 36" MINIMUM COVER.
14. HYDRANTS PLACED ON PRIVATE WATER MAINS SHALL BE RED IN COLOR.
15. HYDRANTS PLACED ON CITY WATER MAINS SHALL BE REFLECTIVE YELLOW IN COLOR.
16. CLEARANCES OF SEVEN AND ONE HALF FEET IN FRONT OF AND TO EACH SIDE OF HYDRANT WITH FOUR FOOT TO THE REAR SHALL BE MAINTAINED.
EXIST WATER MAIN TIE-IN CONNECTION
w/ FUTURE EXTENSION PROVISION

GATE VALVE
* OPTIONAL (AT DISCRETION OF ENGINEER)

DEAD-END BLOW-OFF ASSEMBLY
1 - 2" BRASS BALL VALVE
2 - 2" THREADED BRASS NIPPLES
1 - 2" THREADED PVC CAP

MJ PLUG
w/ 2" TAP

MECHANICAL JOINT
FOSTER ADAPTER

TEE

NEW WATER MAIN
RESTRAIN JOINTS AS NEEDED

EXIST WATER MAIN
TO REMAIN IN SERVICE

90° ELBOW

MJ LONG-PATTERN SLEEVE
AS NEEDED TO TIE-IN

CUT AND CAP EXIST WATER MAIN
(PLACE OUT OF SERVICE)

RESTRAN ALL JOINTS THROUGH FITTINGS
THRUJT RESTRAINT NOTES:
1. CHARTS ARE BASED ON EBAA IRON RESTRAINT LENGTH CALCULATOR, VERSION 6. ENGINEER OF RECORD SHALL VERIFY.
2. DESIGN PARAMETERS ARE AS FOLLOWS:
   a. UNIFIED SOIL CLASSIFICATION: SM SOIL TYPE
   b. SAFETY FACTOR: 1.5 TO 1
   c. TRENCH TYPE: TYPE 3
   d. DEPTH OF BURY: 3 FT
   e. TEST PRESSURE: 150 PSI
3. POLY WRAPPED DUCTILE IRON PIPE SHALL REQUIRE ADDITIONAL THRUST RESTRAINT.
4. HORIZ. BENDS REQUIRE RESTRAINT OF ALL JOINTS WITHIN THE CALCULATED RESTRAINT LENGTH ON BOTH SIDES OF THE BEND.

RESTRAINT LENGTHS FOR HORIZONTAL BENDS
N.T.S.

<table>
<thead>
<tr>
<th>PIPE DIAMETER (INCHES)</th>
<th>BEND</th>
<th>11.25°</th>
<th>22.5°</th>
<th>45°</th>
<th>90°</th>
<th>PVC BEND</th>
<th>11.25°</th>
<th>22.5°</th>
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THRUST RESTRAINT NOTES:
1. CHARTS ARE BASED ON EDAA IRON RESTRAINT LENGTH CALCULATOR, VERSION 6. ENGINEER OF RECORD SHALL VERIFY.
2. DESIGN PARAMETERS ARE AS FOLLOWS:
   a. UNIFIED SOIL CLASSIFICATION: SM SOIL TYPE
   b. SAFETY FACTOR: 1.5 TO 1
   c. TRENCH TYPE: TYPE 3
   d. DEPTH OF BURY: 3 FT
   e. TEST PRESSURE: 150 PSI
3. POLY WRAPPED DUCTILE IRON PIPE SHALL REQUIRE ADDITIONAL THRUST RESTRAINT.
4. REDUCERS REQUIRE RESTRAINT OF ALL JOINTS WITHIN THE CALCULATED RESTRAINT LENGTH EXTENDING FROM THE REDUCER ON THE SIDE OF THE LARGER PIPE.

<table>
<thead>
<tr>
<th>LARGE PIPE DIAMETER (INCHES)</th>
<th>SMALL PIPE DIAMETER (INCHES)</th>
<th>DUCTILE IRON RESTRAINT (FEET)</th>
<th>PVC RESTRAINT (FEET)</th>
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RESTRAINT LENGTHS FOR REDUCERS
N.T.S.
THREAT RESTRAINT NOTES:

1. CHARTS ARE BASED ON ERRAA IRON RESTRAINT LENGTH CALCULATOR, VERSION 3. ENGINEER OF RECORD SHALL VERIFY.

2. DESIGN PARAMETERS ARE AS FOLLOWS:
   a. UNIT SOIL CLASSIFICATION: SM SOIL TYPE
   b. SAFETY FACTOR: 1.5 TO 1
   c. TRENCH TYPE: TYPE 3
   d. DEPTH OF BURY: 3 FT
   e. TEST PRESSURE: 150 PSI

3. POLY WRAPPED DUCTILE IRON PIPE SHALL REQUIRE ADDITIONAL THRUST RESTRAINT.

4. CAPS AND PLUGS REQUIRE RESTRAINT OF ALL JOINTS WITHIN THE CALCULATED RESTRAINT LENGTH EXTENDING FROM THE DEAD END.

<table>
<thead>
<tr>
<th>PIPE DIAMETER</th>
<th>DUCTILE IRON (FEET)</th>
<th>PVC (FEET)</th>
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RESTRAINT LENGTHS FOR DEAD ENDS AND VALVES (IN FEET)

RESTRAINT LENGTHS FOR CAPS AND PLUGS
THRUST RESTRAINT NOTES:

1. CHARTS ARE BASED ON EMAA IRON RESTRAINT LENGTH CALCULATOR, VERSION 6. ENGINEER OF RECORD SHALL VERIFY.
2. DESIGN PARAMETERS ARE AS FOLLOWS:
   a. UNIFIED SOIL CLASSIFICATION: EM SOIL TYPE
   b. SAFETY FACTOR: 1.6 TO 1
   c. TRENCH TYPE: TYPE I
   d. DEPTH OF BURY: 2 FT
   e. TEST PRESSURE: 150 PSI
3. POLY WRAPPED DUCTILE IRON PIPE SHALL REQUIRE ADDITIONAL THRUST RESTRAINT.
4. VALVES REQUIRE RESTRAINT OF ALL JOINTS WITHIN THE CALCULATED RESTRAINT LENGTH ON BOTH SIDES OF THE VALVE.

RERAINT LENGTH FOR DEAD ENDS AND VALVES (IN FEET)

<table>
<thead>
<tr>
<th>PIPE DIAMETER (INCHES)</th>
<th>DUCTILE IRON (FEET)</th>
<th>PVC (FEET)</th>
</tr>
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RERAINT LENGTHS FOR VALVES

N.T.S.
THROTTLE RESTRAINT NOTES:
1. CHARTS ARE BASED ON EBAE IRON RESTRAINT LENGTH CALCULATOR, VERSION 8. ENGINEER OF RECORD SHALL VERIFY.
2. DESIGN PARAMETERS ARE AS FOLLOWS:
   a. UNIFIED SOIL CLASSIFICATION: SM SOIL TYPE
   b. SAFETY FACTOR: 1.5 TO 1
   c. TRENCH TYPE: TYPE 3
   d. DEPTH OF BURY: 3 FT
   a. TEST PRESSURE: 150 PSI
3. POLY WRAPPED DUCTILE IRON PIPE SHALL REQUIRE ADDITIONAL THRUST RESTRAINT.
4. TEES REQUIRE RESTRAINT OF ALL JOINTS WITHIN THE CALCULATED RESTRAINT LENGTH ALONG THE BRANCH PIPE.
5. BRANCH RESTRAINT LENGTH FOR TEES ASSUMES A 9 FOOT RUN LENGTH ON EACH SIDE OF THE TEE. SHORTER RUN LENGTHS MAY REQUIRE ADDITIONAL THRUST RESTRAINT.

RESTRAINT LENGTHS FOR TEE BRANCHES

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<th>RUN DIAMETER (INCHES)</th>
<th>BRANCH DIAMETER (INCHES)</th>
<th>DUCTILE IRON RESTRAINT (FEET)</th>
<th>PVC RESTRAINT (FEET)</th>
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RESTRAINT LENGTHS FOR TEES

N.T.S.
THRUXT RESTRRAINT NOTES:
1. CHARTS ARE BASED ON EBAA IRON RESTRAINT LENGTH CALCULATOR, VESION 6. ENGINEER OF RECORD SHALL VERIFY.
2. DESIGN PARAMETERS ARE AS FOLLOWS:
   a. UNIFIED SOIL CLASSIFICATION: SM SOIL TYPE
   b. SAFETY FACTOR: 1.5 TO 1
   c. TRENCH TYPE: TYPE 3
   d. DEPTH OF BURY: 3 FT
   e. TEST PRESSURE: 150 PSI
3. POLY WRAPPED DUCTILE IRON PIPE SHALL REQUIRE ADDITIONAL THRUXT-RESTRAINT.
4. VERTICAL OFFSETS REQUIRE RESTRAINT OF ALL JOINTS WITHIN THE CALCULATED RESTRAINT LENGTH ON THE UPPER AND LOWER BENDS.
5. RESTRAIN ALL JOINTS BETWEEN FITTINGS ON THE DIAGONAL PIPE.
6. DESIGN PARAMETERS FOR VERTICAL OFFSETS ASSUME A HIGH SIDE DEPTH OF 2 FEET AND A LOW SIDE DEPTH OF 5 FEET. LOW SIDE DEPTHS LESS THAN 5 FEET MAY REQUIRE ADDITIONAL THRUXT RESTRAINT.

RESTRAINT LENGTHS FOR VERTICAL OFFSETS
N.T.S.
PIPE ENCASEMENT FOR CROSSING w/ LESS THAN 12" VERTICAL SEPARATION

FLOWABLE FILL
DIP WM (SIZE VARIES)
UNDISTURBED EARTH

25 x O.D. OF STORM PIPE
O.D. OF WM PIPE

6" MIN.
O.D. OF WM PIPE

" CONTRACTOR SHALL NOTIFY CITY IF SEPARATION IS LESS THAN 6"

STORM PIPE (SIZE VARIES)
4" PVC cleanout threaded plug (recessed) w/ inverted 2" key plug

(2) Layers building paper or fiber packing between driveway and conc collar
Conc or Asphalt driveway (by others)

4" PVC cleanout adapter hub

4" PVC lateral w/ 2% min slope or
6" PVC lateral w/ 1% min slope

Q. Wastewater lateral

2'-0" min

Cl box marked 'S' by US Foundry (USF7623) or approved equal.

20" Diameter conc collar w/ WWR (fc=2500 psi min)

6"

8" PVC extension, as required

Two-way cleanout tee

Contractor to install #10 wire from wastewater main to the cleanout cap w/ an extra 2' tied to cap

Connect to customers line

FLOW

Connect to customers line
SEWER SERVICE LATERAL DISCONNECTION
ON EXISTING OR NEW ROADWAY
N.T.S.

SEWER SERVICE LATERAL DISCONNECTION
ON EXIST OR NEW ROADWAY
N.T.S.