

**Exhibit I
Scope of Services**

**City of Orlando
Public Works Department Wastewater Division
Lift Station 5 Replacement Project
Design, Permitting, Cost Estimating and Bid/Construction Phase Services**

**City Project No. 6304
Service Authorization**

April 3, 2014

SCOPE OF SERVICES

Introduction

Lift Station #005, located near the intersection of Gore St. and S. Tampa Ave and George Barker Park, is at the end of its useful service life and is experiencing a number of issues related to high maintenance and inadequate depth and capacity. Due to economic and constructability advantages, the City has decided to replace the existing station with a new modernized submersible wetpit type lift station on a nearby City-owned piece of land on the NE corner of Gore St. and Tampa Ave. This empty land is currently zoned as "public use" (appropriate for use for public utilities) and is near enough to the existing station to allow diversion/rerouting of the sewers and forcemains to/from the new station.

As part of the 1st phase of the project, BC, on behalf of Public Works Dept., submitted a Conditional Use Permit application to the City Planning Division which included site plans and artistic renderings of the proposed future lift station site and restored park entrance. The Conditional Use Permit for use of the empty land parcel was approved by the Municipal Planning Board on July 17, 2012 and subsequently approved by City Council. Other activities completed as part of phase 1 of the project included data collection and development of the basis of design report, survey and utility locates of the project area, as well as geotechnical and groundwater quality investigations.

Now that the data collection and preliminary design is complete and the Conditional Use Permit has been granted, the final design and permitting activities will commence. This scope of work is for provision of engineering services related to the final design, permitting, cost estimating, bidding/construction services and other specified related work for the installation of a new submersible type pump station on the empty City-owned land parcel. The new lift station will be designed to handle existing and 30-year projected future flows arising from expected growth. The new lift station will have a building with 3 rooms including a ventilated pump room, an air-conditioned room for electrical and controls, and a ventilated room for a generator. The building's construction will be concrete masonry block and will have an architectural appearance that helps blend it into the surrounding neighborhood. The new station will be encompassed within an 8' high security wall and the area outside the walls will be landscaped to blend with the surrounding area and provide natural screening with trees.

The scope also includes the detailed design for diverting existing gravity sewer system to the new lift station. The scope of work assumes that the new LS #005 will be sited at the identified City-owned empty land parcel and deviations (including rehabilitating the existing station or locating the station at the existing parcel) may require additional services.

Following the construction of the new lift station and placing it into service, it will be necessary to demolish and remove the old station currently near the park entrance. BC will develop design drawings for the demolition and salvage of the existing Lift Station #005 site. An alum feed facility, owned and operated by the City Streets and Drainage Division/Public Works Department, is currently co-located within the security wall of the existing lift station site. The existing alum feed system will be left in place at its current location with no modifications except for provision of electrical power, a security wall, and necessary access improvements. The cleared portion of the City-owned land at the park entryway will be restored to a more natural state and landscaped/replanted in coordination with the City Parks and Recreation Department. BC will develop design drawings for installation of new landscape irrigation systems for the cleared/restored portion of the Park entryway. BC will prepare the necessary demolition, site landscaping, and irrigation drawings and specifications and will coordinate with the other City Departments as needed to accomplish these tasks.

At this time, it appears the construction of the new lift station and demolition/modifications at the existing site will require a Florida Department of Environmental Protection (FDEP) Environmental Resource Permit (ERP), a FDEP Wastewater Facility or Activity Permit, a FDEP potable water permit, a City Building Department permit, an FDEP dewatering permit, City authorization to discharge dewatering water to City sanitary or storm water infrastructure, and a City Right-of-Way (ROW) utilization permit. BC and our subconsultants will submit the required permit applications with supporting materials and respond to requests for additional information from the respective permitting agencies as needed to acquire these permits. All permitting related fees will be paid by the City.

Scope of Work

The following scope of work has been developed to meet the objectives described above based on the preliminary design. In order to develop a scope of work (including schedule and budget), the following assumptions have been made regarding the facilities that will be designed, permitted, bid and constructed:

- BC will design a new submersible pump station to be located on the City property across from the existing pump station site. The location of the proposed LS #005 site on the City-owned land parcel is shown in Figure 1 of the Master Agreement.
- BC will design a new submersible pump station of capacity to handle present and projected 30-year future flows as determined in the preliminary design.
- BC will design new interconnecting gravity sewer systems and forcemain piping for diversion and rerouting of the existing gravity sewers and forcemains to/from the new station. These new gravity sewer systems and forcemains will be limited to the areas within the existing and proposed future station parcels and within the rights-of-way of Gore St. and Tampa Avenue directly adjacent to these parcels.
- The submersible pump station will have a single wetwell compartment.
- The pumps will be driven by VFD's housed in the electrical building.
- Station discharge piping and valves (motorized and manual), including a flow metering device will be installed above ground on a concrete pad.

- The pump station will include a pump room with lockable entryways and a 12 ft wide roll up door over the wetwell containing an equipment hoist system with capacity to lift the largest submersible pump that can be mounted on the base, and providing necessary height and space for loading a pump on a trailer.
- The pump station will include a new climate controlled electrical room housing electrical and control equipment and an enclosed ventilated generator room housing an emergency generator.
- The buildings will be concrete masonry block construction. The new buildings and security wall will have an architectural appearance that helps blend them into the surrounding neighborhood. The buildings will comply with NFPA 101, Life Safety Code, applicable Building Codes, and ADA.
- Design services will include emergency power systems including a new 480 VAC generator and automatic transfer switch housed in the ventilated generator building.
- A complete diesel fuel storage and supply system including an aboveground double-walled Convault style tank providing at least five days of fuel supply and double-wall containment piping will be provided.
- The new LS #005 will be designed to contain odors and route them to a nearby packaged biofilter odor control system.
- BC will develop the necessary civil design to include a paving and grading plan and stormwater pollution prevention plan (SWPPP) with sedimentation and erosion control details.
- BC will develop plans for landscaping and a site security wall to facilitate blending the new station into the surrounding neighborhood and gaining acceptance from permitting agencies such as the City of Orlando Building Department.
- BC will specify a new sprinkler irrigation system for the landscaped area outside the security wall at the new lift station site to be designed and installed by an irrigation contractor for connection to an existing water supply. The scope does not include provisions for new irrigation wells or supply lines from off-site location...
- BC will also develop a final design for the demolition and salvage, of the existing LS #005 site. BC will visit the station with the City staff to identify any materials or equipment that have salvage value or can be reused and will identify materials to be turned over to the City for inclusion in the final design. For the purposes of this scope of work it is assumed that the existing above grade superstructure at the LS #005 will be demolished and removed entirely and remaining concrete substructure (3 feet below grade) will be left in situ and filled with suitable fill material.
- This scope of work contains provisions for one public meeting and a meeting with one Commissioner to keep local residents and the Commissioner informed of the project.

- The existing alum feed system will be left in place with no modifications except for provision of electrical power and controls, a security wall and/or fence restricting unauthorized access, and the necessary site/civil improvements including paving that may be needed for access. This scope of work does not include preparation of design drawings and specifications for relocation of or modifications to the existing alum feed system.
- BC will prepare surface restoration plans (sodding) for the remaining disturbed portion of the City-owned land near the park entryway following demolition/removal of the existing lift station, in coordination with the City Families, Parks, and Recreation Department. This scope of work does not include provisions for other park amenities besides landscaping (sodding) and fencing in the area of the existing lift station. The scope of work includes allocating space on the site layout drawings for a monument to be installed under a future contract at the existing lift station site.
- BC will specify a new sprinkler irrigation system for the restored park entryway, in coordination with the City Families, Parks, and Recreation Department to be designed and installed by an irrigation contractor for connection to an existing water supply. It is assumed that the new irrigation system can be connected to the park's existing irrigation system and that a new well and/or irrigation pumps will not be required for this location.

Task 1.0 - Final Design Services

BC and its subconsultants will develop a final design for the work defined above.

BC will prepare and submit drawings and specifications at approximately the 50, 90, and 100 percent design levels of completion. One design review meeting for each completion level will be scheduled with the City to review the documents and receive comments. After addressing comments received, BC will submit one reproducible and one electronic set (on CD in AutoCAD and MS Word format) of the completed final design documents to the City.

Drawings, specifications, and details will be developed for civil, structural, architectural, mechanical, HVAC, electrical, instrumentation and landscaping. Exhibit II provides an index of the anticipated drawings that will be required to bid and construct this project. Design drawings will be two-dimensional in AutoCAD, full-size 22-inches by 34-inches, in accordance with BC CADD standards and formats.

Technical specifications will be based on the 17-Division format of the CSI in MS Word format. In addition to technical specifications, BC will coordinate with the City to incorporate and integrate into the bidding documents the General Conditions, Supplemental Conditions, and Special Provisions to be supplied by the City. Standard City technical specifications will be used where applicable.

1.1 - 50-Percent Design

The preliminary design that was completed as part of the first phase of the project will be the basis for the 50% final design. The documents that will be submitted with the 50-percent design submittal include:

1. A detailed scope of work that will form the scope of work section of the specifications.
2. Process and instrumentation drawings at approximately the 50% level.
3. Civil drawings to approximately the 50% level.
4. Mechanical drawings (including demolition and new drawings) at approximately the 50% level.

5. Electrical drawings including site power plans, one-line diagrams, schematics, power and lighting plans and details of electrical installation etc. Electrical drawing will be at approximately the 30%-50% design level.
6. Architectural drawings to approximately the 50% level showing the building views, internal layouts, windows, doors, etc.
7. Structural engineering design drawings, including modifications to existing structures at approximately the 30% level.
8. HVAC drawings to approximately the 30% level.
9. Listing of major equipment proposed.
10. Listing of technical specifications to be used.

Seven (7) sets of the 50-percent design package (with full and/or half size drawings per City preference) will be submitted for review and comment along with one CD with the drawings and documents in pdf format.

1.2 - 90-Percent Design

Based on the review comments received for the 50-percent design submittals, the BC will prepare 90-percent level plans and specifications (Divisions 1 through 17). Drawings in the set will be at the 90% level at this point.

Seven sets of the 90-percent design package (with full or half-size drawings per City preference) along with one CD with the drawings and documents in pdf form will be submitted to the City for review and comment.

1.3 - 100-Percent Design

Based on the review comments received for the 90-percent design submittals, the BC will prepare 100-percent level plans and technical specifications (Divisions 1 through 17) and prepare a final opinion of construction costs.

Seven sets of the 100-percent design package (with full or half-size drawings per City preference) along with one CD with the drawings and documents in pdf format will be submitted to the City for review and comment. These sets will be used for bidding.

1.4 – Quality Control Reviews

A thorough in-house quality control review will be conducted by BC for each of the specialty design disciplines for both the contract drawings and project manual (front end and technical specification sections) for each of the required submittals (50%, 90% and 100%) to ensure a well coordinated discipline and cross-discipline design product prior to issuance to the City.

Subconsultant Services

BC will use subconsultants for final design services relative to their respective design responsibilities to include:

- Attendance at selected workshops and design review meetings.
- Preparation of site civil/stormwater, architectural, landscaping, and irrigation drawings and specifications for the 50%, 90%, and 100% design submittals.

Task 2.0 – Permitting Services

At this time, it appears the construction of the new station and demolition/modifications at the existing site will require a FDEP ERP (for stormwater), a FDEP Wastewater Facility or Activity Permit, a potable water permit from FDEP/Orlando Utilities Commission (OUC), and a City of Orlando Building Department permit. Also the the new diesel fuel storage and supply systems will require a permit from FDEP. In addition, the sewer and force main construction in the right-of-way of S. Tampa Ave. and Gore St., including the new force main connecting the new station to the existing 24" diameter forcemain, will require ROW utilization permits from the City. In addition, a permit application for the dewatering discharge will be obtained from FDEP, and authorization from the City to discharge the dewatering flow to the City's sanitary or stormwater system. BC will submit the required permit applications with supporting materials including preliminary plans and reports to FDEP, OUC, and the City Building Department. This scope of work assumes the City will pay (provide a check payable to the permitting agency) all permit fees associated with the project. BC does not anticipate other permits at this time. If other permits are required, BC will prepare an additional scope and budget for completing the required permits. Upon written approval from the City to address additional required permits, BC will develop and submit an application and respond to requests for additional information.

Task 2.1 - FDEP Environmental Resource Permit

At this time, it appears the construction of the new station will require a stormwater permit from FDEP. Under this task, BC and it's subconsultant's will prepare, sign/seal, and submit permit applications to FDEP. This task includes preparation of an engineering report presenting calculations and other supporting documentation including design drawings and specifications detailing the proposed station and its stormwater system. In addition, this task includes review and responses to agency RAI's. BC and its subconsultant will attend a meeting and/or site visit with FDEP to answer questions or concerns regarding the submittal and to clarify follow-up material or requested information. BC will coordinate the meeting and provide a written summary of the minutes to all attendees. No fish and wildlife or endangered species surveys are anticipated for the ERP due to the urban nature of the proposed site and lack of existing vegetation.

Task 2.2 - FDEP Wastewater Facility or Activity Permit

Replacement of LS #005 will require a FDEP Wastewater Facility or Activity Permit. An application for a FDEP permit will be prepared based on 100% plans and specifications. If it is necessary to include an engineering report as part of the FDEP permit application, this scope of work assumes that the BODR prepared during the preliminary design phase or portions thereof will be suitable for fulfilling the requirements of the engineering report portion of the application and does not include any updates or revisions to the BODR to reflect changes in the final design.

A copy of the draft permit application will be submitted for review by the City. Following City review and incorporation of comments, a pre-application discussion with FDEP permitting staff will be arranged and appropriate FDEP comments will be incorporated into the permit application. Three signed and sealed copies of the permit application package will be prepared with one submitted to FDEP. The permit application package will include the permit application form, 100% design drawings and specifications, and BODR (if needed).

BC will review and respond to requests for additional information from FDEP. BC will prepare responses, collect and submit additional information, and modify drawings or specifications to address FDEP concerns and questions.

Task 2.3 - FDEP/OUC Potable Water Permit

It is currently envisioned that the new station will incorporate a hose rack and washdown area as well as a lavatory with a sink inside the pump room. The potable water systems will include a new potable water service line to the new pump station and associated meter and RPZ backflow preventer assembly. Potable water system work may also be required to provide fire protection and hydrants at the new station. The demolition work at the existing pump station site will require modifications to existing potable water systems. Potable water system additions/modifications will require a potable water permit from FDEP and certification from OUC.

This task will include preparation of a letter to the FDEP with accompanying drawings highlighting the proposed potable water system modifications, requesting that a "permit determination" be made.

It appears that submission of a "Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWS's" form [form 62-555.900(7)] will be required and no specific construction permit would be required for the potable water modifications. If the response from FDEP or the nature of the potable water system modifications developed during the final design is such that a specific construction permit is required, BC will submit a proposal to the City covering the additional permitting activity required.

OUC is the public water system that provides water to the site; therefore it will be necessary for OUC to review, authorize, and certify this work prior to submitting the permit application to FDEP. This task will include preparation of a letter to OUC with accompanying drawings highlighting the proposed potable water system modifications, requesting that OUC provide the necessary certification.

Following certification from OUC, BC will prepare, sign/seal, and submit the "notice of intent" form to FDEP. This task includes preparation of forms/permit applications, with calculations and other supporting documentation including drawings detailing the proposed modifications.

In addition, this task includes review and responses to agency RAI's. If required, BC will attend a meeting with OUC and/or FDEP to answer questions or concerns regarding the permit application and to clarify follow-up material or requested information. BC will coordinate and provide a written summary of the minutes to all attendees.

Task 2.4 - City Building Permit

The BC team will print, sign and seal 5 sets of plans and 5 sets of specifications for submittal to the City of Orlando for the purposes of obtaining a building permit.

To meet the submittal requirements of the City Building Department, BC will prepare a cost estimate representing the structural and building portion only of the project and incorporate the information into the plans.

BC will prepare load calculations associated with the pump station electrical building and submit them to the City for submittal with the Building Permit.

The drawings will be modified to incorporate a table indicating building square footages, air conditioned areas, occupancy types, cost estimate, and sprinkler status in accordance with the City requirements.

City reviewer comments posted on the City website will be addressed by the BC team. Responses will be submitted in writing to the reviewers. BC will update the plans and specifications to address the City

comments and provide them to the City. BC will coordinate, prepare responses, perform additional investigations, and modify drawings and specifications to address comments required by the City Building Department.

Task 2.5 - Right-Of-Way Utilization Permit

A right-of-way permit will be needed for the gravity sewer/force main work in S. Tampa Ave. and Gore Street to route flow to/from the station. BC will obtain approval for a Maintenance of Traffic Plan from the City's Traffic Engineering Office and engineering approval for the roadway repair details (pavement, base, striping) from the Streets and Drainage Department.

Under this task, BC and its subconsultant's will prepare, sign/seal, and submit permit applications to the City Departments. This task includes preparation of design drawings and specifications detailing the proposed roadway modifications and a Maintenance of Traffic Plan supporting the work. In addition, this task includes review and responses to RAI's.

BC and its subconsultant will attend one meeting and/or site visit with the City Departments to answer questions or concerns regarding the submittal and to clarify follow-up material or requested information. BC will coordinate the meeting and provide a written summary of the minutes to all attendees.

Task 2.6 - Diesel Fuel Storage and Supply System Permit

At this time, it appears the construction of the new diesel fuel storage and supply systems will require a permit from FDEP. Under this task, BC will prepare, sign/seal, and submit permit applications to FDEP. This task includes preparation of engineering documents presenting calculations and other supporting information including design drawings and specifications detailing the proposed system. In addition, this task includes review and responses to agency RAI's. If required, BC and its subconsultant will attend a meeting and/or site visit with FDEP to answer questions or concerns regarding the submittal and to clarify follow-up material or requested information. BC will coordinate and provide a written summary of the minutes to all attendees.

Subconsultant Services

BC will use subconsultants for permitting services relative to their respective design responsibilities to include:

- Acquiring the right-of-way utilization permit and preparing the Maintenance of Traffic Plan (BPA).
- Acquiring the FDEP ERP/stormwater permit (BPA).
- Assistance with their respective subdisciplines in acquiring the City Building Department permit.

Task 3.0 - Cost Estimating Services

BC will prepare an Engineer's Opinion of Probable Construction Cost (EOPCC) for the Project at the 100 percent completion level prior to advertising for bids in accordance with the bid items.

Cost estimates at the 100% design completion level will be Class II in accordance with AACE criteria, and defined as a Baseline Check Estimate or Final Control Estimate. The preparation of the EOPCC will include a percentage basis of the construction cost to determine the overall electrical and instrumentation cost. In addition, the EOPCC will use more allowances to address piping and appurtenances. Assumptions will be made by the estimators to determine allowances to be used. This estimate will be suitable for use to compare against received bids, evaluate change order requests and for construction claim evaluations and dispute resolution. Expected accuracy ranges from -15 percent to +20 percent.

Task 4.0 – Public Involvement Services

4.1 - Public Meeting

This subtask contains provisions for up to one public meeting as may be required to keep local residents informed of this project. One public meeting will be conducted to present the nature of the project and present visuals describing the proposed finished lift station site and the restored park entrance (former lift station site). Meeting invitations will be sent out to all residents and businesses within a 500 foot radius of the project site. This task includes preparation of invitations and visuals for the presentation.

4.2 – Commissioner Meeting

This subtask contains provisions for up to one (from district) Commissioner meeting as may be required to keep commissioners informed of this project. One Commissioner meeting will be conducted to present the nature of the project and present visuals describing the proposed finished lift station site and the restored park entrance (former lift station site). This task includes preparation of invitations and visuals for the presentation.

4.3 – Additional Engineering Services

A monetary contingency in the amount of \$50,000.00 has been established by the City in the event that the City requires additional engineering services throughout the course of the project that are outside the scope of work of this Agreement. This monetary contingency is only to be used when authorized in writing by the City.

Task 5.0 – Bid and Construction Phase Services

5.1 – Bid Phase Assistance

BC shall respond in writing to Bid Phase RFI's submitted during the bid period and provide technical information for the City to issue addenda during the bidding process.

5.2 Conformed Contract Documents

BC will incorporate changes into the contract documents resulting from addenda issued during the bid phase into Conformed Drawings and Specifications.

5.3 Pre-Construction Conference

BC shall prepare the agenda for and conduct one (1) Pre-Construction Conference. BC shall prepare meeting notes of topics discussed and decisions made. BC shall distribute copies of the meeting notes to all attendees via email within five (5) working days of the meeting date.

5.4 – Shop Drawing Review

BC shall review and respond to Contractor submittals within fifteen (15) working days of receipt. BC's review shall be for conformance with the design concept and technical specification requirements. BC shall prepare and maintain a log of submittals to include submittal number, subject, date received, reviewer, action taken and date returned. Budgeted effort is based upon a maximum of two (2) re-submittals (three submittals total) for each equipment/specification submittal. The contract documents shall require the Contractor to pay for additional submittal review costs.

5.5 – Construction Phase RFI

BC shall respond in writing to Contractor's written Construction Phase RFI regarding design plans and technical specifications.

5.6– Testing Services

BC will provide engineering services for the following specific testing involving on-site and laboratory activities during the construction phase:

- The field activities related to the preparation and proper storage of cylinders for concrete compressive strength testing, and the laboratory activities for the concrete compressive strength testing (and 28 calendar days) reports will be sent to the City and the Contractor for their records.
- The field proctor testing and soil compaction testing of the subgrade for the foundation slab and during backfill operations of the walls of the lift station structure reports will be sent to the City and the Contractor for their records. In the event of a failure of a compaction test, the cost of the follow-up testing activities will be the responsibility of the Contractor.

The Contractor will be responsible for the scheduling, coordination and contact with the subconsultant for all testing requirements.

5.7– Construction Site Visits

Assuming atwelve-month construction duration, BC shall make twelve (12) monthly construction observation site visits at intervals appropriate to the construction work in progress and shall provide a brief summary to the City describing the work performed by the Contractor with relation to the contract documents. The contract documents shall require the Contractor to pay for additional site visits in excess of the twelve-month projected construction duration. Such construction observation site visits shall review materials and equipment being used to determine if work is proceeding in general accordance with the contract documents/permits and will document observed nonconforming work discovered to provide further protection for the City against defects and deficiencies in the Contractor's work. Site visits shall be performed by the Engineer of Record.

5.8 – Progress Meetings

BC will prepare the agenda for and conduct progress meetings both with the City and the Contractor to provide information regarding the current construction status of the project. BC shall prepare meeting notes of topics discussed and decisions made. BC estimates that twelve (12) progress meetings will be conducted, and will occur the same day as the site visits.

5.9 – Start-Up Assistance and Substantial Completion/Final Completion Inspections

BC will conduct three (3) site visits to provide technical assistance during pump station start-up and acceptance testing. BC will review and approve the Contractor's Testing Plan.

BC will conduct one (1) substantial completion site inspection to determine if the Project is substantially complete. The inspection shall result in the preparation of a BC preliminary deficiency list to be delivered to the Contractor for final completion. BC shall conduct one (1) final inspection to determine if the work has been completed in accordance with the Contract Documents and the preliminary deficiency list. Subsequent to an acceptable final inspection, BC shall recommend, in writing, final payment to the Contractor and give written notice to the City and Contractor that the work is acceptable subject to any expressed conditions (final deficiency list).

5.10 – Record Drawings

BC will prepare final record drawings from the original disk file based on Contractor-supplied as-built drawings and information verified by a Florida licensed surveyor hired by the Contractor, shop drawings, on site observations and other knowledge regarding field changes, modifications, etc., made during the construction phase of the Project.

BC will submit record drawings to the necessary regulatory agencies for permit certifications. BC shall provide the City with three (3) sets of certified, full size, black line prints of the record drawings signed and sealed by the engineer incorporating the information received by the Contractor. In addition, BC shall provide the City a scanned digital version of the certified, hard copy record drawings in PDF format.

MBE/WBE Participation

The minority owned business enterprise (MBE) level of participation for the proposed services represents 19.3% of the total proposed fee. The woman owned business enterprise (WBE) level of participation for the proposed services represents 4.5% of the total proposed fee. **For the overall project, when combined with the original authorization, a MBE level of participation of 20.2% and a WBE level of participation of 9.8% will be achieved, totaling 30.0%.**

Subconsultant	Business Class	Contract Fee	Percent of Total Fee, %
Brindley Pieters and Associates Inc.	MBE	\$56,652	6.6%
Borelli + Partners Inc.	MBE	\$105,840	12.3%
Nadic Engineering Services, Inc.	WBE	\$14,417	1.7%
Quest Corporation of America	WBE	\$9,721	1.1%
ASG Reprographic	MBE	\$3,016	0.4%
EDA	WBE	\$14,196	1.7%
Total MBE:		\$165,508	19.3%
Total WBE:		\$38,334	4.5%
TOTAL			23.8%

Exhibit II

**City of Orlando
Public Works Department Wastewater Division
Lift Station 5 Replacement Project
Design, Permitting, Cost Estimating and Bid/Construction Phase Services**

**City Project No. 6304
Service Authorization**

April 3, 2014

LIST OF DRAWING SHEETS

Insert list of sheets this page - See Exhibit II

Exhibit II

City of Orlando Public Works Department Wastewater Division Lift Station 5 Replacement Project

City Project No. XXXX
Service Authorization
November 20, 2013

List of Sheets

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29 C-12	SITE PLAN - GEOMETRY CONTROL - NEW LIFT STATION SITE		96 I-2	WET WELL AND PUMPS P&ID	
30 C-13	PAVING, GRADING AND DRAINAGE PLAN - NEW LIFT STATION SITE		97 I-3	DISCHARGE PIPING AND FLOW METERS P&ID	
31 C-14	PAVING, GRADING AND DRAINAGE PLAN - EXISTING LIFT STATION SITE		98 I-4	GENERATOR AND FUEL TANK P&ID	
32 C-15	PAVING REPAIR PLAN - GORE STREET & TAMPA AVE		99 I-5	ODOR CONTROL P&ID	
Structural			100 I-7	NETWORK DIAGRAM	
33 S-1	STRUCTURAL GENERAL NOTES 1 OF 2		Architectural		
34 S-2	STRUCTURAL GENERAL NOTES 2 OF 2		101 A-1	ARCHITECTURAL LEGEND SHEET	
35 SD-1	STRUCTURAL DETAILS I		102 AD-1	ARCHITECTURAL DETAILS	
36 SD-2	STRUCTURAL DETAILS II		103 AD-2	ARCHITECTURAL DETAILS	
37 SD-3	STRUCTURAL DETAILS III		104 A-2	PUMP STATION - ROOFING PLAN	
38 SD-4	STRUCTURAL DETAILS IV		105 A-3	PUMP STATION - ELEVATIONS	
39 S-3	PUMP STATION - FOUNDATION PLAN AT EL XX		106 A-4	ELECTRICAL BUILDING - FLOOR PLAN	
40 S-4	PUMP STATION - SLAB PLAN AT EL XX		107 A-5	ELECTRICAL BUILDING - ELEVATIONS	
41 S-5	PUMP STATION - ROOF PLAN AT EL XX		108 A-6	ELECTRICAL BUILDING - ROOFING PLAN	
42 S-6	PUMP STATION - SECTIONS AND DETAILS I		109 A-7	DOOR AND FINISH SCHEDULES	
43 S-7	PUMP STATION - SECTIONS AND DETAILS II		110 A-8	SECURITY WALL PLAN	
44 S-8	PUMP STATION - ELECTRICAL BUILDING - PLANS AND DETAILS		111 A-9	SECURITY WALL ELEVATIONS	
45 S-9	PUMP STATION - ELECTRICAL BUILDING - SECTIONS AND DETAILS		Landscape and Irrigation		
46 S-10	PUMP STATION - ELECTRICAL BUILDING - ELEVATIONS		112 L-1	LANDSCAPING LEGEND SHEET	
47 S-11	PUMP STATION - GENERATOR BUILDING - PLANS AND DETAILS		113 L-2	LANDSCAPING GENERAL NOTES	
48 S-12	PUMP STATION - GENERATOR BUILDING - SECTIONS AND DETAILS		114 LD-1	LANDSCAPING DETAILS	
49 S-13	PUMP STATION - GENERATOR BUILDING - ELEVATIONS		115 LD-3	IRRIGATION DETAILS	
50 S-14	SITE SCREEN WALLS		116 L-3	LANDSCAPE AND IRRIGATION PLAN - NEW LIFT STATION SITE	
51 S-15	MISCELLANEOUS PADS		117 L-4	LANDSCAPE AND IRRIGATION PLAN - RESTORED EXISTING LIFT STATION SITE	
Mechanical					
52 MD-1	PIPE SUPPORT SYSTEMS - PIPE HANGERS AND GUIDES				
53 MD-3	PIPE SUPPORT SYSTEMS - PIPE PENETRATIONS				
54 MD-4	MISCELLANEOUS DETAILS I				
55 MD-5	MISCELLANEOUS DETAILS II				
56 MD-6	UNER DETAILS I				
57 M-1	PUMP STATION - PLAN AT EL XX				
58 M-2	PUMP STATION - PLAN AT EL XX				
59 M-3	PUMP STATION - SECTION I				
60 M-4	PUMP STATION - SECTION II				
61 M-6	PUMP STATION BIOFILTER ODOR CONTROL SYSTEM - PLAN AND SECTIONS				
62 M-7	PUMP STATION BIOFILTER DETAILS				
63 M-8	PUMP STATION - FUEL STORAGE TANK & SUPPLY SYSTEM SCHEMATIC				
64 M-9	PUMP STATION - FUEL STORAGE TANK & SUPPLY SYSTEM				
65 M-10	PUMP STATION - GENERATOR ROOM				
66 M-11	FUEL SUPPLY SYSTEM DETAILS				
67 M-12	PUMP STATION - GENERATOR DETAILS				

Exhibit III

**City of Orlando
Public Works Department Wastewater Division
Lift Station 5 Replacement Project
Design, Permitting, Cost Estimating and Bid/Construction Phase Services**

**City Project No. 6304
Service Authorization**

April 3, 2014

COMPENSATION

The proposed not to exceed fee for the services described herein is \$835,086.00 as detailed in the following fee estimate.

EXHIBIT III
CITY OF ORLANDO
LIFT STATION 5 REPLACEMENT PROJECT
SERVICE AUTHORIZATION
DESIGN, PERMITTING, COST ESTIMATING, BID/CONSTRUCTION PHASE & TESTING SERVICES
FEE ESTIMATE
April 3, 2014

Task	Officer hrs \$88.00	Project Manager hrs \$80.00	Project Engineer hrs \$52.00	Junior Engineer hrs \$21.00	Elect./&C/Po wer Engineer hrs \$47.00	Structural Engineer hrs \$58.00	HVAC Engineer hrs \$61.00	Odor Control Engineer hrs \$72.00	Cost Estimating Mgr. hrs \$62.00	Cost Estimator hrs \$56.00	Designer CAD Mgr. hrs \$46.00	Drafting CAD Tech hrs \$28.00	QA/QC Mgr. hrs \$76.00	Contract Admin. hrs \$44.00	Contract Billor hrs \$22.00	Clerical & Admin. Support hrs \$25.00	BC Total Hours hrs 0	BC Raw Labor \$	BC Multiplied Cost (3.0) \$	BC ODCs \$	BPA \$	Borelli \$	Quest \$	ASG Repro \$	EDA \$	Nadic \$	Total Sub's \$	Client Contingency \$	Sub's x 10% \$	Total Cost \$
1.0 Final Design Services																														
1.1 50% Design	5	54	316	342	165	88	21	18	0	0	135	214	0	8	10	30	1,385	56,684	170,052	491										
1.2 90% Design	5	32	210	216	159	50	18	14	0	0	122	184	0	8	4	30	1,062	43,849	131,547	380										
1.3 100% Design	2	16	80	96	148	15	5	4	0	0	24	40	0	8	4	20	462	19,390	58,170	168										
1.4 QC Reviews	3	8	0	0	4	8	2	2	0	0	0	0	52	0	0	0	79	5,662	17,566	51										
Subtotal	15	110	606	654	476	151	46	36	0	0	282	438	52	24	18	80	2,588	125,785	377,355	1,091	26,296	56,854	0	3,016	14,196	0	100,462		10,046	486,953
2.0 Permitting Services																														
2.1 FDEP Environmental Resource Permit	2	2	6	8	0	0	0	0	0	0	0	0	0	0	0	0	16	636	2,508	7										
2.2 FDEP Wastewater Facility or Activity Permit	1	2	8	20	0	0	0	0	0	0	0	0	0	0	0	0	31	1,184	3,312	10										
2.3 FDEP/DUC Potable Water Permit	1	2	8	15	0	0	0	0	0	0	0	0	0	0	0	0	27	1,620	3,060	9										
2.4 City Building Permit	2	4	20	16	20	12	4	4	0	0	16	18	0	0	0	12	126	5,576	16,728	48										
2.5 Rights-Of-Way Utilization Permit	2	2	8	8	0	0	0	0	0	0	0	0	0	0	0	0	20	940	2,820	8										
2.6 Diesel Fuel Storage and Supply System Permit	0	2	2	8	0	0	0	0	0	0	0	0	0	0	0	0	12	452	1,356	4										
Subtotal	8	14	52	76	20	12	4	4	0	0	16	16	0	0	0	12	234	9,928	29,784	86	14,721	7,502	0	0	0	0	22,223		2,222	54,315
3.0 Cost Estimating Services																														
3.1 100% Design									6	136							142	7,988	23,964	69										
Subtotal	0	0	0	0	0	0	0	0	6	136	0	0	0	0	0	0	142	7,988	23,964	69	0	0	0	0	0	0	0		0	24,033
4.0 Public Involvement Services																														
4.1 Public Meeting	2	8	4	4	0	0	0	0	0	0	0	0	0	0	0	0	18	1,188	3,564	10										
4.2 Commissioner Meeting	2	8	4	4	0	0	0	0	0	0	0	0	0	0	0	0	18	1,188	3,564	10										
4.3 Additional Engineering Svcs (City Requested)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								50,000		
Subtotal	4	16	8	8	0	0	0	0	0	0	0	0	0	0	0	0	36	2,376	7,128	21	0	0	9,721	0	0	0	9,721	50,000	972	67,842
5.0 Bid & Construction Services																														
5.1 Bid Phase Assistance	0	2	8	8	6	0	0	0	0	0	0	0	0	0	0	0	24	1,046	3,138	9										
5.2 Confirmed Contract Documents	0	0	4	4	8	0	0	0	0	0	4	20	0	0	0	0	40	1,412	4,236	12										
5.3 Pre-Construction Conference	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	912	2,736	8										
5.4 Shop Drawing Review	0	8	80	150	32	24	10	10	0	0	0	0	0	0	0	0	324	12,490	37,470	108										
5.5 Construction Phase RFI	0	5	16	40	14	16	2	2	0	0	0	10	0	0	0	0	105	4,270	12,810	37										
5.6 Testing Services (Concrete and Backfill) - City	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
5.7 Construction Site Visit	0	48	0	0	0	8	0	0	0	0	0	0	0	0	0	0	56	4,792	14,376	42										
5.8 Progress Meetings	0	48	0	0	15	0	0	0	0	0	0	0	0	24	24	8	119	6,629	20,427	59										
5.9 Startup, Substantial and Final Completion Inspections	0	40	12	0	10	0	0	0	0	0	0	0	0	0	0	0	62	4,664	14,082	41										
5.10 Record Drawings	0	4	0	0	8	0	0	0	0	0	16	80	0	0	0	8	116	3,912	11,738	34										
Subtotal	4	159	120	212	93	48	12	12	0	0	20	110	0	24	24	24	862	40,337	121,011	350	15,636	41,284	0	0	0	14,417	71,437		7,144	199,942
Grand Total	31	299	786	950	589	211	62	52	6	136	318	564	52	48	42	116	4,262	186,414	559,242	1,616	56,653	105,840	9,721	3,016	14,196	14,417	203,843	50,000	20,384	835,086

Exhibit IV

**City of Orlando
Public Works Department Wastewater Division
Lift Station 5 Replacement Project
Design, Permitting, Cost Estimating and Bid/Construction Phase Services**

**City Project No. 6304
Service Authorization**

April 3, 2014

SCHEDULE

The proposed schedule for the services is presented below starting from the date of notice to proceed from the City.

Task		Time to Completion (Months from Engineering Services NTP)
1.1	50 percent Design	5
1.2	90 percent Design	7
1.3	100 percent Design	9
2.0	Permitting Services	9
3.0	Cost Estimating Services	5 & 9
4.0	Public Involvement Services	9
5.0	Bid and Construction Phase Services	21



February 12th, 2013
REVISED: October 16th, 2013

Victor Hulburt, P.E.
Brown and Caldwell
850 Trafalgar Ct., #300
Maitland, FL 32751

RE: **REVISED City of Orlando Public Works Department Wastewater Division Lift Station #5 Replacement Project – Final Architectural and Landscape Design Documents and Construction Services Proposal**

Dear Frank:

Borrelli + Partners, Inc. (B+P) are pleased to provide this revised proposal for the above referenced project for your review and consideration.

The scope of the project as we understand it is as follows:

This scope of work is for professional architectural and landscape design services related to the final design, permitting, and other related work for the replacement of City Lift Station 5. The scope of work assumes that the new LS 5 site has been approved by the City and any changes to the location may require additional services. This scope of work contains provisions for incidental project meetings.

Task 1.0 - Final Design

B+P will develop a final design for the construction of the pump station, electrical building, generator building, site work and access controls and landscape design, as well as the site security wall. B+P will also develop a final design for the restoration of the existing Lift Station 5 site, which will include modifications to the existing landscape, possibly hardscape and park amenities.

B+P will design the pump station to have an open-walled roofed area over the wet well with a monorail hoist system with capacity to lift the largest submersible pump that can be mounted on the base, and a covered area for working on a pump or loading a pump on a truck or trailer.

B+P will design a new air-conditioned building housing electrical and control equipment and an enclosed building with ventilated space for an emergency generator. The buildings will be concrete masonry block or precast construction. The new buildings, landscaping and security wall will have an architectural appearance that helps blend them into the surrounding neighborhood. The buildings will include necessary HVAC systems designed by others.

JORGE A. BORRELLI, ASLA, LEED® AP BD+C :: JIM BORRELLI, CGC :: JAIME E. BORRELLI AIA, NCARB

tel. 407.418.1338 :: fax 407.418.1342
720 Vassar Street, Orlando, Florida 32804
web borrelliarchitects.com

specification revision, and City requested changes. For each addendum, one (1) electronic set of the modified plans and specifications will be provided to BC in addendum format.

Preparation of Conformed Documents - B+P will review the addendum items, and incorporate them into the contract documents. B+P will provide one (1) set of electronic CD's with the conformed documents to BC for submittal to the City and the contractor as a basis for his record drawing preparation and a copy to the City as a basis for printing conformed sets.

Task 4.0 -Construction Phase Services

Upon completion of the bidding phase for Lift Station 5, the construction phase will commence. B+P will provide additional professional services during the construction activities associated with the Lift Station 5 project.

It is our understanding that the City will provide appropriate full-time resident project representatives (RPRs) during construction as well as material, concrete, geotechnical, and dewatering water quality testing during construction. Budget estimates for construction services for the Lift Station 5 project are based on an estimated total time of construction period of 12 months. The following task descriptions provide a detailed breakdown of the services to be performed under this authorization:

4.1 -Pre-Construction Conference

B+P shall prepare the agenda for and attend one (1) Pre-Construction Conference. B+P shall prepare meeting notes of topics discussed and decisions made related to B+P's work. B+P shall distribute copies of the meeting notes to BC via email within four (4) working days of the meeting date.

4.2 - Shop Drawing Review

B+P shall review and respond to Contractor submittals within fifteen (15) working days of receipt. B+P's review shall be for conformance with the design concept and technical specification requirements. B+P shall prepare and maintain a log of submittals to include submittal number, subject, date received, reviewer, action taken and date returned. Budgeted effort is based upon a maximum of two (2) re-submittals (three submittals total) for each submittal.

4.3- Construction Phase RFI

B+P shall respond in writing to Contractor's written Construction Phase RFIs regarding design plans and technical specifications. Budgeted effort is based upon a maximum of 20 RFIs.

4.4- Construction Site Visits

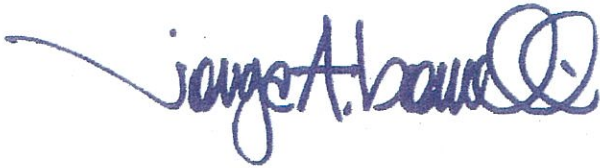
Assuming a twelve-month construction duration, B+P shall make eight (8) monthly construction observation site visits at intervals appropriate to the construction work in progress and shall provide a brief summary to BC describing the work performed by the Contractor with relation to the contract documents. Such construction observation site visits shall review materials and equipment being used to determine if work is proceeding in general accordance with the contract documents/permits and will document observed nonconforming work discovered to provide further protection for CITY against defects and deficiencies in the Contractor's work.

- LEED Administration / Registration
- Building Commissioning
- Cost Estimating Services.

We propose accomplishing the aforementioned tasks and scope of services for the not-to-exceed fee of **One Hundred Five Thousand Eight Hundred Forty Dollars and One Cent (\$105,840.01)**, inclusive of reimbursable expenses. (See attached man-hour task breakdown). Reimbursable expenses shall be billed in accordance with the City of Orlando's approved reimbursable expenses. B+P anticipates that BC will do all project printing for this project and will reimburse B+P for any printing required to be done by B+P for purposes of submissions to the City and/or BC. B+P will not charge for any in-house use printing, copying or plotting. BC will reimburse B+P for any printing, plotting, copying, and mounting of presentation boards, Fed Ex, courier services and postage.

If this proposal meets with your approval, please acknowledge by signing our proposal and forward your standard sub-consultant agreement for our review and signature. We look forward to working with you and the City of Orlando on this exciting project.

Sincerely,

A handwritten signature in blue ink, reading "Jorge A. Borrelli". The signature is stylized with a long, sweeping underline that extends to the left and a circular flourish at the end.

Jorge A. Borrelli, ASLA, LEED AP BD +C, CPTED
President
Borrelli + Partners, Inc.

CITY OF ORLANDO LIFT STATION #5 REPLACEMENT PROJECT

FEE PROPOSAL FROM
Borrelli + Partners, Inc. Architects Planners

TASKS	PRINCIPAL	PROJECT MANAGER	SPECIFICATIONS WRITER	STAFF ARCHITECT	LANDSCAPE/IRRIG. DESIGNER	ADMIN	TOTAL
PERSONNEL HOURLY RATES	62.93	54.42	45.92	37.42	37.42	30.61	
FIRM OVERHEAD MULTIPLIER	3.00	3.00	3.00	3.00	3.00	3.00	
TASK 1.0 - FINAL DESIGN							
1.1 - Pump Station Building	1.00	6.00	8.00	40.00	0.00	0.00	55.00
1.2 - Electrical / Generator Building	1.00	6.00	8.00	58.00	0.00	0.00	73.00
1.3 - Site Security Wall and Access Controls	1.00	4.00	8.00	40.00	40.00	0.00	93.00
1.4 - Landscape Design	2.00	4.00	16.00	0.00	60.00	0.00	82.00
1.5 - Existing Site Landscape Restoration Design	3.00	6.00	10.00	0.00	58.00	0.00	77.00
1.6 - (3) City Review Meetings (50%, 90% and 100% CO's)	10.00	10.00	10.00	18.00	20.00	10.00	78.00
TOTAL TASK PHASE HOURS	18.00	36.00	60.00	156.00	178.00	10.00	556.00
PERSONNEL HOURLY RATES	62.93	54.42	45.92	37.42	37.42	30.61	
TASK PHASE TOTAL PERSONNEL DIRECT COSTS	\$1,132.74	\$1,959.12	\$2,759.20	\$5,837.52	\$6,660.76	\$306.10	\$18,651.44
FIRM OVERHEAD MULTIPLIER	3.00	3.00	3.00	3.00	3.00	3.00	
TASK PHASE GRAND TOTAL	\$3,398.22	\$5,877.36	\$8,265.60	\$17,512.56	\$19,982.28	\$918.30	\$55,954.32
TASK 2.0 - PERMITTING							
2.1 - City Building Permit	6.00	6.00	0.00	0.00	4.00	2.00	18.00
2.2 - (2-4 Hr.) Meetings with the City of Orlando PM	8.00	8.00	0.00	0.00	6.00	4.00	26.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL TASK PHASE HOURS	14.00	14.00	0.00	0.00	10.00	6.00	44.00
PERSONNEL HOURLY RATES	62.93	54.42	45.92	37.42	37.42	30.61	
TASK PHASE TOTAL PERSONNEL DIRECT COSTS	\$881.02	\$761.88	\$0.00	\$0.00	\$374.20	\$183.66	\$2,200.76
FIRM OVERHEAD MULTIPLIER	3.00	3.00	3.00	3.00	3.00	3.00	
TASK PHASE GRAND TOTAL	\$2,643.06	\$2,285.64	\$0.00	\$0.00	\$1,122.60	\$550.98	\$6,602.28
TASK 3.0 - BIDDING SERVICES							
3.1 - Attend Pre-Bid Conference	0.00	3.00	0.00	3.00	0.00	1.00	7.00
3.2 - Respond to Questions & Prepare Addenda	1.00	2.00	2.00	4.00	6.00	1.00	16.00
3.3 - Preparation of Conformed Documents	2.00	2.00	2.00	10.00	16.00	1.00	33.00
TOTAL TASK PHASE HOURS	3.00	7.00	4.00	17.00	22.00	3.00	56.00
PERSONNEL HOURLY RATES	62.93	54.42	45.92	37.42	37.42	30.61	
TASK PHASE TOTAL PERSONNEL DIRECT COSTS	\$188.79	\$380.94	\$183.68	\$636.14	\$823.24	\$91.83	\$2,304.62
FIRM OVERHEAD MULTIPLIER	3.00	3.00	3.00	3.00	3.00	3.00	
TASK PHASE GRAND TOTAL	\$566.37	\$1,142.82	\$551.04	\$1,908.42	\$2,469.72	\$275.49	\$6,913.86
TASK 4.0 - CONSTRUCTION SERVICES							
Task 4.1 - Pre-Construction Conference	0.00	3.00	0.00	3.00	3.00	1.00	10.00
Task 4.2 - Construction Meetings / Site Visits	16.00	32.00	0.00	32.00	24.00	10.00	114.00
Task 4.3 - Shop Drawing Review	2.00	8.00	4.00	8.00	10.00	2.00	34.00
Task 4.4 - Issue Clarifications	0.00	4.00	2.00	6.00	6.00	1.00	19.00
Task 4.5 - Change Orders	1.00	2.00	0.00	6.00	4.00	0.00	13.00
Task 4.6 - Substantial Completion Site Visits	0.00	4.00	0.00	4.00	8.00	2.00	18.00
Task 4.7 - Final Completion Site Visits	0.00	6.00	0.00	6.00	10.00	2.00	24.00
Task 4.8 - Record Drawings	1.00	2.00	2.00	12.00	12.00	1.00	30.00
TOTAL TASK PHASE HOURS	20.00	61.00	8.00	77.00	77.00	19.00	262.00
PERSONNEL HOURLY RATES	62.93	54.42	45.92	37.42	37.42	30.61	
TASK PHASE TOTAL PERSONNEL DIRECT COSTS	\$1,258.60	\$3,319.62	\$367.36	\$2,881.34	\$2,881.34	\$581.59	\$11,289.85
FIRM OVERHEAD MULTIPLIER	3.00	3.00	3.00	3.00	3.00	3.00	
TASK PHASE GRAND TOTAL	\$3,775.80	\$9,958.86	\$1,102.08	\$8,644.02	\$8,644.02	\$1,744.77	\$33,869.55
GRAND TOTAL							
GRAND TOTAL TASK PHASE HOURS	55.00	118.00	72.00	250.00	287.00	38.00	
PERSONNEL HOURLY RATES	62.93	54.42	45.92	37.42	37.42	30.61	
FIRM OVERHEAD MULTIPLIER	3.00	3.00	3.00	3.00	3.00	3.00	
TASK PHASE GRAND TOTAL	\$10,383.45	\$19,264.68	\$9,918.72	\$28,065.00	\$32,218.62	\$3,489.54	\$103,340.01
Reimbursable Expenses:							\$2,500.00
GRAND TOTAL FEES:							\$105,840.01



PRICE PROPOSAL
For
City of Orlando Lift Station #005 Replacement Project
September 26, 2013

QCA to provide Public Information Services for the City of Orlando. QCA will be responsible for public information efforts for 1 public meeting.

- Notification
- Prepare mailing list
- PowerPoint development
- Public meeting preparations
- Public meeting attendance and follow-up

Total amount \$9,720.92 for a total of 120 hours.

Please feel to contact me with questions at 866-662-6273.

Sincerely,

A handwritten signature in cursive script, appearing to read "Diane Hackney". The signature is written in black ink and is positioned above the printed name and address.

Diane Hackney
3837 Northdale Blvd. #242
Tampa, Florida 33624
(p) 866-662-6273
(f) 813-926-2962



Public Involvement Overview

City of Orlando Lift Station #005 Replacement Project

Prepared by:

Quest Corporation of America, Inc.

QCA staff has the extensive experience needed to engage diverse community members to foster understanding and support of the City of Orlando Lift Station #005 Replacement Design Project. A woman-owned, minority-certified communications firm, QCA has provided proactive, grass-roots community outreach on design and other projects for the City of Orlando, including the President Barack Obama Parkway, Narcoossee Road Improvements and Church Street Streetscape. We also have supported community outreach on projects for Seminole County, OCEA Orange County Utilities, the Florida Department of Transportation, airports and others.

QCA personnel has the expertise to successfully develop and implement public involvement strategies, develop eye-catching newsletters and other project materials, create PowerPoint Presentations and other multi-media tools, develop and maintain websites, and compile and maintain stakeholder databases.

For this project, QCA's strategy will facilitate open two-way communication between the City, the design consultant and community partners and agencies including Orange County, law enforcement agencies, the United States Postal Service, LYNX, Jones High School, and Orange County Schools.

QCA staff knows the ins-and-outs of coordinating public meetings, having put on hundreds of such gatherings around the state. We can provide the planning, facility coordination, publicity, legal advertising, officials and property owner notification, ADA and other compliance requirements, facilitation and documentation for the public meeting to be held prior to construction. QCA understands public meeting sites must be easily accessible to all community members; we would consider the Washington Shores Church of Christ, located at 2818 Orange Center Boulevard Orlando, and other appropriate sites for such meetings.

This team also would employ comprehensive strategies to reach out to – and generate greater meeting attendance from – traditionally underserved members of the community. QCA would work with faith-based groups, cultural and ethnic organizations, seniors groups and social service agencies to help widely distribute public meeting notices. We would also ensure the meeting site is within walking distance of nearby LYNX bus service.

Our staff will proactively disseminate clear, concise and accurate project information to, and get constructive feedback from, community members including: Washington Shores Village Apartments, Clear Lake Community, Orlando Sports Complex, Ryder Trucks, Mears

Transportation, CITGO Gas and Metro PCS. QCA will be accessible and responsive in addressing and documenting public questions and issues arising during design. We will keep the City informed of all public issues on an ongoing basis, so there are no surprises.

Project Activity 3: Project Common and Project General Tasks

Estimator: Diane Hackney

Updated 08/29/12

City of Orlando Lift Station #005 Replacement Project

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	N/A
3.1.2	Notifications	LS	1	10	10	QCA shall assist the CITY in preparing notifications to elected officials and other public officials that the project is beginning.
3.1.3	Prepare Mailing Lists	LS	1	20	20	QCA shall identify all impacted property owners, stakeholders and tenants (within a minimum of 300 feet of the project corridor) and prepare a mailing list of all such entities. QCA shall update the mailing list as needed during the life of the project.
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	20	20	The CONSULTANT shall prepare PowerPoint presentation for use in public meeting. Includes development of slides, as well as coordination and review of slides by the City.
3.1.9	Public Meeting Preparations	LS	1	40	40	The CONSULTANT will investigate potential meeting sites to advise the CITY on their suitability. The CONSULTANT shall prepare the necessary materials for use in public meeting. Meeting notification mailing (assemble and mail); newspaper display ad; sign-in sheet; comment form; fact sheet; site selection and development of meeting layout.
3.1.10	Public Meeting Attendance/Followup	LS	1	30	30	The CONSULTANT shall attend 1 public meeting (2 people x 5 hours each = 10 hours), assist with meeting setup and take down. The CONSULTANT shall also prepare a summary of the public meeting that includes all copies of all materials shown or provided at the public meeting. The summary shall also include a listing of all written comments made during or after the meeting and responses to those written comments.
3.1.11	MPO Meetings	LS	1	0	0	N/A
3.1.12	Web Site	LS	1	0	0	N/A
3.1 Public Involvement Subtotal					120	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	0	0	
3.4	Contract Maintenance	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	0	0	See listing below

Project Activity 3: Project Common and Project General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.7	Plans Update	LS	1	0	0	
3.8	Post Design Services	LS	1	0	0	
3.9	Electronic Delivery	LS	1	0	0	
3.10	Other Project General Tasks	LS	1	0	0	
3. Project Common and Project General Tasks Total					120	

3.6 - List of Project Manager Meetings

Roadway Analysis	EA	0	0	0	0
Drainage	EA	0	0	0	0
Utilities	EA	0	0	0	0
Environmental	EA	0	0	0	0
Structures	EA	0	0	0	0
Signing & Pavement Marking	EA	0	0	0	0
Signalization	EA	0	0	0	0
Lighting	EA	0	0	0	0
Landscape Architecture	EA	0	0	0	0
Survey	EA	0	0	0	0
Photogrammetry	EA	0	0	0	0
ROW & Mapping	EA	0	0	0	0
Geotechnical	EA	0	0	0	0
Architecture	EA	0	0	0	0
Noise Barriers	EA	0	0	0	0
ITS Analysis	EA	0	0	0	0
Progress Meetings	EA	0	0	0	0
Phase Reviews	EA	0	0	0	0
Field Reviews	EA	0	0	0	0
Total Project Manager Meetings					0

Notes:

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to column D except for Photogrammetry.

NES **NADIC ENGINEERING SERVICES, INC.**
Civil, Environmental, and Geotechnical Consultants

January 2, 2014

Victor Hurlburt, P.E.
Senior Design Consultant
Brown and Caldwell
850 Trafalgar Court
Maitland, Florida 32751

Re: Proposal to Provide Construction Material Testing
City of Orlando – Lift Station No. 5 Construction
NES Proposal No.: CMT14-001

Dear Mr. Hurlburt:

Pursuant to your request, **Nadic Engineering Services, Inc. (NES)** is pleased to submit this proposal for construction material testing services for the proposed City of Orlando Lift Station No. 5 Construction. The quantities provided herein are based on the information provided by you. Quantities can vary with construction scheduling practices; however, we feel that these are reasonably close to what will actually be needed. Of course, you would only be invoiced for services performed at the unit price fees noted on the attached sheet.

We understand that the project consists of Materials Testing at the Lift Station No. 5 in Orlando, Florida. Based on our understanding of this project, we will provide the services listed below.

- Concrete cylinder testing
- Sample, transport and test Proctors
- In-Place Density testing

We will be glad to provide any other services you request.

Fee and Terms

Material Testing services will be provided in accordance with the attached General Conditions at the rates included in the attached Project Fee Schedule (Exhibit A). Billing will be based on the quoted unit rates, the number of hours spent traveling to the project site, conducting field services, preparing written reports, and the number of laboratory tests completed. The total fee for our services is not expected to exceed the sum of **\$14,417.42** as presented in the Exhibit A.

Since NES has no control over the construction schedule or methods of construction, the actual number of hours spent on-site and number of tests shall depend on actual construction practices and the project schedule. The testing services will be invoiced based on the actual quantity of

NES
Office:

Phone:
Fax:

E-mail: nadic@nadicinc.com
601 N. Hart Boulevard
Orlando, FL 32818
(407) 521- 4771
(407) 521-4772

15291 NW 60th Avenue, Ste 106
Miami Lakes, FL. 33014

testing services rendered at the indicated unit rates. NES should not be obligated to provide services which fees exceed the total amount authorized by the Client.

We appreciate the opportunity to present this proposal to you. If this proposal is acceptable, please sign below as notice to proceed and return one (1) copy of this proposal intact to our office. Should you have any questions or if we can be of further assistance, please contact us. We look forward to working with you on this project and projects in the future.

Sincerely,

NADIC ENGINEERING SERVICES, INC.



Godwin N. Nnadi, Ph.D., P.E.
Principal Engineer

AGREED TO THIS _____ DAY OF _____,

BY (Please Print): _____

TITLE: _____

COMPANY: _____

SIGNATURE: _____

EXHIBIT A

Construction Materials Testing Services
City of Orlando Lift Station No. 5 Construction
Orlando, Florida
NES Project No.: CMT14-001

TASK	QUANTITY	UNIT	UNIT COST	TOTAL COST
Construction Materials Testing				
<u>Field Technician</u>				
Field Density Tests (minimum 4 per trip)	140	Each	\$28.00	\$3,920.00
Collect and transport proctor samples	4	Per hour	\$54.36	\$217.44
<u>Laboratory Testing</u>				
Proctor Testing (subgrade)	3	Each	\$110.00	\$330.00
Proctor Testing (base)	1	Each	\$120.00	\$120.00
Concrete Strength Testing (9 cylinders each set)	30	Each	\$247.50	\$7,425.00
<u>Engineering Services</u>				
Principal Engineer	6	Hour	\$166.57	\$999.42
Project Engineer	6	Hour	\$135.12	\$810.72
Technical Secretary	12	Hour	\$49.57	\$594.84
TOTAL				\$14,417.42

NOTES:

- (1) All unit fees are for normal work hours, Monday through Friday from 7:00 a.m. to 5:00 p.m. daily. Work performed outside the normal work hours, Saturday, Sunday and holidays will be invoiced at the standard rate plus 30 percent.
- (2) Stand-by time will be charged at the rate of \$54.36 per hour.
- (3) A minimum of four In-Place Density Tests per trip is required.
- (4) All hourly work requires a minimum of four hour call-out per trip.
- (5) Professional consultations and meetings will be invoiced at our standard rates.



Brindley Pieters & Associates, Inc.
2600 Maitland Center Parkway
Suite 180
Maitland, FL 32751
407.830.8700
407.830.8877 Fax

**Exhibit I
Scope of Services**

**City of Orlando
Public Works Department Wastewater Division
Lift Station #005 Replacement Project
Design, Permitting, and Cost Estimating Services**

February 12, 2013

SCOPE OF SERVICES FOR PROFESSIONAL CIVIL ENGINEERING

Introduction

This scope of work is for providing civil engineering services for the final design, permitting, cost estimating, construction administration, and other related work for the design of the Lift Station #005 replacement project. This scope of work also contains provisions for incidental public outreach activities such as public meetings to keep local residents informed of this project.

Following the construction of the new station and placing it into service, it will be necessary to demolish and remove the old station currently near the park entrance. BPA will assist Brown & Caldwell to develop design drawings for the demolition and salvage of the existing Lift Station #005 site. The existing alum feed system will be left in place at its current location with only minor modifications for electrical power, a security wall, and necessary access improvements.

The construction of the new station and demolition/modifications at the existing site will require a Florida Department of Environmental Protection (FDEP) Environmental Resource Permit (ERP), a FDEP Wastewater Facility or Activity Permit, a FDEP potable water permit, a City Building Department permit, and a City ROW utilization permit. BPA will submit the required ERP and ROW utilization permit applications with supporting materials and respond to requests for additional information from the respective permitting agencies as needed to acquire these permits.

Scope of Work

Task 1.0 - Final Design

Develop a final site/civil design for the construction of the pump station, electrical building, generator building, generator and emergency power system, fuel storage system, odor control system, and related site work. Develop a final site/civil design for the demolition, salvage, and restoration of the existing LS #005 site.

Prepare and submit construction drawings and specifications at approximately the 50, 90, and 100 percent design levels of completion. One design review meeting for each completion level will review the contract documents and receive comments. After addressing comments received, submit completed final design documents.

Detailed drawings, specifications, and details will be developed for site/civil design. Design drawings will be two-dimensional in AutoCAD, full-size 22-inches by 34-inches, in accordance with BC CADD standards and formats.

Technical specifications will be based on the 17-Division format of the CSI in MS Word format.

1.1 - 50-Percent Design

The documents that will be submitted with the 50-percent design submittal include:

1. Site/Civil drawings to approximately the 50% level.
2. Listing of civil technical specifications to be used.

1.2 - 90-Percent Design

Based on the review comments received for the 50-percent design submittals, BPA will prepare 90-percent level plans, specifications, and assist with providing a revised opinion of probable construction costs. All civil drawings in the set will be at the 90% level at this point.

1.3 - 100-Percent Design

Based on the review comments received for the 90-percent design submittals, BPA will prepare 100-percent level plans and technical specifications and assist in preparing a final opinion of construction costs.

Task 2.0 - Permitting

The construction of the new station and demolition/modifications at the existing site will require a FDEP ERP (for stormwater), a FDEP Wastewater Facility or Activity Permit, a potable water permit from FDEP/Orlando Utilities Commission (OUC), and a City of Orlando Building Department permit. Also the new diesel fuel storage and supply systems will require a permit from FDEP. In addition, the sewer and force main construction in the right-of-way will require ROW utilization permits from the City. For the FDEP ERP (Task 2.1), and the City Traffic Engineering Department ROW utilization permit (Task 2.5), BPA will submit the required permit applications with supporting materials including preliminary plans and reports. The FDEP water and wastewater and fuel storage permits as well as the City Building permits will be obtained by others. This scope of work assumes the City will reimburse the permit fees associated with the project.

Task 2.1 - FDEP Environmental Resource Permit

The construction of the new station will require a stormwater permit from FDEP. Under this task, BPA will prepare, sign/seal, and submit permit applications to FDEP. This task includes preparation of an engineering report presenting calculations and other supporting documentation including design drawings and specifications detailing the proposed station and its stormwater system. In addition, this task includes review and responses to agency RAI's. BPA will attend meetings and/or site visit with FDEP to answer questions or concerns regarding the submittal and to clarify follow-up material or requested information. BPA will coordinate the meeting and provide a written summary of the minutes to all attendees.

Task 2.2 - FDEP Wastewater Facility or Activity Permit

No scope of work for BPA in Task 2.2

Task 2.3 - FDEP/OUC Potable Water Permit

No scope of work for BPA in Task 2.3

Task 2.4 - City Building Permit

BPA will assist BC to prepare the building permit documents (stormwater, site, etc.)

Task 2.5 - Right-Of-Way Utilization Permit

A right-of-way permit will be needed for the gravity sewer/force main work in S. Tampa Ave. and Gore Street to route flow to/from the station. BPA will obtain approval for a Maintenance of Traffic Plan from the City's Traffic Engineering Office and engineering approval for the roadway repair details (pavement, base, striping) from the Streets and Drainage Department.

Under this task, BPA will prepare, sign/seal, and submit permit applications to the City Departments. This task includes preparation of design drawings and specifications detailing the proposed roadway modifications and a Maintenance of Traffic Plan supporting the work. In addition, this task includes review and responses to RAI's.

BPA will attend meetings and/or site visit with the City Departments to answer questions or concerns regarding the submittal and to clarify follow-up material or requested information. BPA will coordinate the meeting and provide a written summary of the minutes to all attendees.

Task 2.6 - Diesel Fuel Storage and Supply System Permit

No scope of work for BPA in Task 2.6

Task 3.0 - Cost Estimating

No scope of work for BPA in Task 3.0

Task 4.0 - Additional Services

No scope of work for BPA in Task 5.0

Task 5.0 - Bid and Construction Phase Services

5.1 - Bid Phase Assistance

BPA will assist BC to respond in writing to Bid Phase RFP's submitted during the bid period and provide technical information for the City to issue addenda during the bidding process.

5.2 Conformed Contract Documents

BPA will assist BC to incorporate changes into the contract documents resulting from addenda issued during the bid phase into Conformed Drawings and Specifications.

5.3 Pre-Construction Conference

BPA will assist BC to prepare the agenda for and conduct one (1) Pre-Construction Conference.

5.4 - Shop Drawing Review

BPA will assist BC to review and respond to Contractor submittals within fifteen (15) working days of receipt. BPA's review shall be for conformance with the design concept and technical specification requirements. BPA shall prepare and maintain a log of submittals to include submittal number, subject, date received, reviewer, action taken and date returned. Budgeted effort is based

upon a maximum of two (2) re-submittals (three submittals total) for each equipment/specification submittal.

5.5 - Construction Phase RFI

BPA will assist BC to respond in writing to Contractor's written Construction Phase RFI regarding design plans and technical specifications. Budgeted effort is based upon a maximum of 20 RFI's.

5.6- Construction Site Visits

Assuming a twelve-month construction duration, BPA will attend with BC twelve (12) monthly construction observation site visits at intervals appropriate to the construction work in progress and shall provide a brief summary to the CITY describing the work performed by the Contractor with relation to the contract documents. Such construction observation site visits shall review materials and equipment being used to determine if work is proceeding in general accordance with the contract documents/permits and will document observed nonconforming work discovered to provide further protection for CITY against defects and deficiencies in the Contractor's work.

5.7 - Progress Meetings

BPA will assist BC to prepare the agenda for and conduct progress meetings both with the CITY and the Contractor to provide information regarding the current construction status of the project.

5.8 - Start-Up Assistance and Substantial Completion/Final Completion Inspections

BC will conduct three (3) site visits to provide technical assistance during pump station start-up and acceptance testing. BC will review and approve the Contractor's Testing Plan.

BC will conduct one (1) substantial completion site inspection to determine if the PROJECT is substantially complete. The inspection shall result in the preparation of a BC punch list to be delivered to the Contractor for final completion. BC shall conduct one (1) final inspection to determine if the work has been completed in accordance with the Contract Documents and the punch list. Subsequent to an acceptable final inspection, BC shall recommend, in writing, final payment to the Contractor and give written notice to the CITY and Contractor that the work is acceptable subject to any expressed conditions.

No scope of work for BPA in Task 2.6

5.9 - Record Drawings

BPA will assist BC to prepare final record drawings from the original disk file based on Contractor-supplied as-built drawings and information verified by a Florida licensed surveyor hired by the Contractor, shop drawings, on site observations and other knowledge regarding field changes, modifications, etc., made during the construction phase of the PROJECT.

BPA will assist BC to submit record drawings to the necessary regulatory agencies for permit certifications.

Exhibit II

**City of Orlando
Public Works Department Wastewater Division
Lift Station #005 Replacement Project
Design, Permitting, and Cost Estimating Services**

February 12, 2013

LIST OF SITE/CIVIL SHEETS

Existing Site Plan (2 sheets)

Civil Details (3 sheets)

Standard Erosion Details (1 sheet)

Site Layout Plan- New Lift Station Site (1 sheet)

Pollution Prevention Plan (1 sheet)

Site Plan- Geometry Control- New Lift Station Site (1 sheet)

Paving, Grading and Drainage Plan - New Lift Station Site (1 sheet)

Paving, Grading and Drainage Plan - Existing Lift Station Site (1 sheet)

Paving Repair Plan - Gore Street & Tampa Ave (1 sheet)

Exhibit III

**City of Orlando
Public Works Department Wastewater Division
Lift Station #005 Replacement Project
Design, Permitting, and Cost Estimating Services**

February 12, 2013

COMPENSATION

The proposed not to exceed fee for the site/civil services described herein is \$56,652.64 as detailed in the following fee estimate.



Date: Revised February 12, 2013

Project: City of Orlando Lift Station 5 Replacement

Civil Engineering Services

Prepared for: Brown & Caldwell

Prepared by: BPA (ra)

Task	Hourly Rate	Chief Engineer	Project Manager	Senior Engineer	Project Engineer	CAD Technician	Administrative	Total Hours	Total Cost
		\$72.36	\$67.56	\$52.73	\$47.69	\$33.70	\$18.56		
Task 1.0 Final Design									
Task 1.1 50% Design									
50% Plans			8	2	16	30		56	\$1,879.50
50% Specifications			4		8		2	14	\$688.88
50% QA/QC	4	1						5	\$357.00
Task 1.2 90% Design									
90% Plans			8	2	14	24		48	\$2,122.40
90% Specifications			3		6		1	10	\$507.38
90% QA/QC	4	1						5	\$357.00
Task 1.3 100% Design									
100% Plans			6	2	10	24		42	\$1,796.52
100% Specifications			2		4		1	7	\$344.44
100% QA/QC	2	1						3	\$212.28
Subtotal Task 1.0 Final Design	10	34	6	58	78	4	190	\$8,265.40	
Task 2.0 Permitting									
Task 2.1 FDEP ERP & NPDES	2	8		20	8	4		42	\$1,982.84
Task 2.2 FDEP Wastewater Permit									
Task 2.3 FDEP Potable Water Permit									
Task 2.4 City of Orlando Building Permit		4				4		8	\$405.04
Task 2.5 City of Orlando Right-of-Way Use Permit		8	8	20	8			44	\$2,185.72
Task 2.6 Diesel Fuel Storage Permit								0	\$0.00
Subtotal Permitting	2	20	8	40	20	4	94	\$4,573.60	

	Chief Engineer	Project Manager	Senior Engineer	Project Engineer	CAD Technician	Administrative		
Task Hourly Rate	\$72.36	\$67.56	\$52.73	\$47.69	\$33.70	\$18.56	Total Hours	Total Cost
Task 3.0 Cost Estimating								
Task 4.0 Additional Services								
Task 5.0 Bid and Construction Phase Services								
Bid Phase Assistance	2	2			4			\$414.64
Confirmed Contract Docs		2			4	2		\$307.04
Pre-Construction Conference	2							\$144.72
Shop Drawing Review		6	6	4		1		\$931.06
Construction Phase RFI	1	6	4	6	12	1		\$1,397.74
Construction Site Visits		8				2		\$577.60
Progress Meetings		6						\$405.36
Record Drawings	1	2	8		12			\$1,033.72
Subtotal Task 5.0 Bid & Construction Phase Services	6	32	18	10	32	6	104	\$5,211.88
Subtotal Task 1.0 Final Design	10	34	6	58	78	4	190	\$8,265.40
Subtotal Task 2.0 Permitting	2	20	8	40	20	4	94	\$4,573.60
Subtotal Task 3.0 Cost Estimates	0	0	0	0	0	0	0	\$0.00
Subtotal Task 4.0 Additional Services	0	0	0	0	0	0	0	\$0.00
Subtotal Task 5.0 Bid & Const. Services	7	46	18	8	36	5	120	\$5,211.88
Total Project Hours	19	100	32	106	134	13	388	
Total Project Salary	\$1,375	\$6,756	\$1,687	\$5,055	\$4,516	\$241		\$18,050.88
Wage Cost Multiplier								3.0
Subtotal								\$54,152.64
Direct Expenses								
Printing, Exhibits, Mail, Overnight Packages								\$2,000.00
Permit Application (SFWMMD)								\$500.00
Total Not-to-Exceed Fee								\$56,652.64



Electrical Design Associates

January 6, 2014

Mr. Victor Hurlburt, P.E.
Brown and Caldwell
850 Trafalgar Ct Ste 300
Maitland, FL 32751-4148

Re: Lift Station No.5 Final Design
Orlando, Florida

Dear Mr. Hurlburt;

We are pleased to submit our proposal for electrical engineering services for the above project. The following serves to provide an overview of the engineering services Electrical Design Associates (EDA) intends to furnish on the above referenced project to Brown and Caldwell (BC) and provides the agreed upon Hourly Not to Exceed sum. Your signature on this agreement will serve as your letter of intent and official notice to proceed with the referenced work. Our services shall include completed final design including drawings, load tabulations, and descriptions for the work in accordance with a format determined by you. The scope of work shall be based on the following:

1. EDA shall coordinate and develop the technical specifications as they relate to the electrical and instrumentation upgrades associated with the Lift Station No.5 Final Design. The specifications will be based on the City of Orlando Standards.
2. EDA shall meet with and coordinate with BC and review the electrical and instrumentation design as prepared by BC.
3. EDA shall meet with the Industrial Automation Group (IAG) during the preparation of the technical specifications for both the 50% and 90% submittals.
4. Submittals:
 - a. 50% Submittal – Technical Submittals
 - b. 90% Submittal – Technical Submittals
 - c. 100% Submittal – Technical Submittals

EDA shall submit one (1) complete set of Division 16 specifications in Word format to BC at each submittal stage. All additional reproduction shall be completed by others.

5300 W. ATLANTIC AVE.
SUITE 408
DELRAY BEACH, FL 33484

4763 S. ONWAY RD.
SUITE E
ORLANDO, FL 32812

3001 N. ROCKY POINT DRIVE E.
SUITE 200
TAMPA, FL 33607

5. Schedule:

- a. 50% submittal – 4 months after the engineering services NTP
- b. 90% submittal – 6 months after the engineering services NTP
- c. 100% submittal – 8 months after the engineering services NTP

Anticipated NTP from the City will be early March 2014.

Our scope of work shall be as outlined above and as indicated on the attached estimate of work effort. Services not specifically outlined above are excluded. Our fee for this work shall be billed hourly with a not to exceed amount of \$14,195.68.

Very truly yours,

A handwritten signature in blue ink that reads "L M Reyes" with a stylized flourish at the end.

Lillian M. Reyes, P.E.

ACCEPTED _____ DATE _____

Lift Station No. 5 Rehabilitation City of Orlando, FL Estimate of Work Effort & Fee														Date: 1/6/2014
	Principal		Senior Associate		Designer		Field Supervisor		Cadd Technician		Clerical/Admin		Totals	
	Hourly Rate		Hourly Rate		Hourly Rate		Hourly Rate		Hourly Rate		Hourly Rate		man-hours	Total
	\$169.41		\$122.83		\$98.26		\$92.48		\$80.92		\$63.58			
		Total		Total		Total		Total		Total		Total	man-hours	Total
Task 1 - Final Design Total:													man-hours	Total
50% Submittal														
Meetings	4	\$ 797.64											4	\$ 797.64
Design		\$ -											0	\$ -
Specifications	32	\$ 6,381.12											36	\$ 6,635.44
Subtotal:	36	\$ 7,178.76	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 254.32	40	\$ 7,433.08
90% Submittal														
Meetings	4	\$ 797.64											4	\$ 797.64
Design		\$ -											0	\$ -
Specifications	16	\$ 3,190.56											20	\$ 3,444.88
Subtotal:	20	\$ 3,988.20	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 254.32	24	\$ 4,242.52
Final Submittal														
Meetings	4	\$ 797.64											4	\$ 797.64
Design		\$ -											0	\$ -
Specifications	8	\$ 1,595.28											10	\$ 1,722.44
Subtotal:	12	\$ 2,392.92	0	\$ -	0	\$ -	0	\$ -	0	\$ -	2	\$ 127.16	14	\$ 2,520.08
Final Design Total:	68	\$ 13,559.88	0	\$ -	0	\$ -	0	\$ -	0	\$ -	10	\$ 635.80	78	\$ 14,195.68



ASG COMPUTER & REPROGRAPHIC, INC.

P.O. Box 5601
Winter Park, FL 32793
Tel: 407-895-5670
Fax: 407-895-5669

ESTIMATE

Date	Estimate #
1/2/2014	909

Name / Address
Brown and Caldwell 407-661-9536 Victor Hulburt

		Terms	Rep	Project/Job	
		Due on receipt	AS	Lift Station No 5	
Item	Description	Qty	Cost	Total	
10-1	For 50 percent design submittal				
Hole Punching	8½" x 11" Digital Copies	5,600	0.04	224.00T	
	Hole Punching - GBC/Plastic Comb, Spiral, 2-Hole, 3-Hole, Wire, Etc	2,800	0.008	22.40	
206	22" x 34" Digital Laser Bond Copies	136	0.825	112.20T	
206	22" x 34" Digital Laser Bond Copies	136	0.495	67.32T	
206	22" x 34" Digital Laser Bond Copies	403	0.33	132.99T	
10-1	For 90 percent design submittal				
Hole Punching	8½" x 11" Digital Copies	7,200	0.04	288.00T	
	Hole Punching - GBC/Plastic Comb, Spiral, 2-Hole, 3-Hole, Wire, Etc	3,600	0.008	28.80	
206	22" x 34" Digital Laser Bond Copies	136	0.825	112.20T	
206	22" x 34" Digital Laser Bond Copies	136	0.495	67.32T	
206	22" x 34" Digital Laser Bond Copies	628	0.33	207.24T	
10-1	For 100 percent design submittal				
Hole Punching	8½" x 11" Digital Copies	8,000	0.04	320.00T	
	Hole Punching - GBC/Plastic Comb, Spiral, 2-Hole, 3-Hole, Wire, Etc	4,000	0.008	32.00	
206	22" x 34" Digital Laser Bond Copies	136	0.825	112.20T	
206	22" x 34" Digital Laser Bond Copies	136	0.495	67.32T	
206	22" x 34" Digital Laser Bond Copies	778	0.33	256.74T	
		Subtotal			
		Sales Tax (6.5%)			
		Total			

Signature & Print _____



ASG COMPUTER & REPROGRAPHIC, INC.

P.O. Box 5601
Winter Park, FL 32793
Tel: 407-895-5670
Fax: 407-895-5669

ESTIMATE

Date	Estimate #
1/2/2014	909

Name / Address
Brown and Caldwell 407-661-9536 Victor Hulburt

Terms	Rep	Project/Job
Due on receipt	AS	Lift Station No 5

Item	Description	Qty	Cost	Total
10-1	Conformed design submittal			
	8½" x 11" Digital Copies	8,000	0.04	320.00T
Hole Punching	Hole Punching - GBC/Plastic Comb, Spiral, 2-Hole, 3-Hole, Wire, Etc	4,000	0.008	32.00
206	22" x 34" Digital Laser Bond Copies	136	0.825	112.20T
206	22" x 34" Digital Laser Bond Copies	136	0.495	67.32T
206	22" x 34" Digital Laser Bond Copies	778	0.33	256.74T

Subtotal \$2,838.99

Sales Tax (6.5%) \$177.05

Total \$3,016.04

Signature & Print _____