SUBJECT: **BERT MAXWELL PARK BULKHEAD IMPROVEMENTS- JSEB SET-ASIDE**

BID #: JCF-0176-15 OPEN DATE: **2015/09/09**

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION FIXED- JSEB SET-ASIDE

AGENCY: PUBLIC WORKS

BASIS OF AWARD: LOWEST RESPONSIVE, RESPONSIBLE BIDDER- TOTAL BASE BID

NUMBER OF BIDS INVITED: 6 NUMBER RECEIVED: 5 OTHER: 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:
Subject bid was approved on 09/24/15 to enter into post-bid/pre-award negotiations with Baker Klein Engineering, P.L (contract #10181); Negotiations were approved on 11/19/15 in the amount of $497,391.33; Change Order #1 was approved on 05/26/16 in the amount of $90,962.77; Change Order #2 was approved on 01/26/17 in the amount of $257,548.39.

Recommend approval of Change Order #3 to Baker Klein Engineering, P.L., in the amount of $34,989.81, for a revised total award amount not-to-exceed $880,893.30.

This award is to be funded by account: PWCP31LSD538-06505-PW0781-01- $12,450.61; PWCP32EVP519-069505-PW0781-01- $22,539.20 to be executed by contract change order through Office of General Counsel.

Attachments: Recommendation Memo, Change Order, Previous Awards(s)

BUYER: MARILYN LADLER

RESPECTFULLY SUBMITTED GREGORY PEASE, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: **Tom Fallin, P.E., Chief, Engineering and Construction Management Division**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING _____ MEMBERS DISAPPROVING _____ DATE: _____

_____ _____ OTHER: _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED _____ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____

City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, FL 32202
(904) 255-8762
www.coj.net

ONE CITY. ONE JACKSONVILLE.

October 2, 2017

TO: Gregory W. Pease
Chief of Procurement

THRU: John P. Pappas, P.E.
Director

FROM: Tom Fallin, P. E.,
Chief, Engineering and Construction Management Division

Thomas G. McKnight
Capital Improvement Construction Manager

SUBJECT: Bert Maxwell Park Bulkhead Improvements
BID# JCF-0176-15
Contract 10181

The subject contract was awarded under BID# JCF-0176-15 in the amount of $497,391.33 to Baker Klein Engineering, P.L., contract 10181. Change order #1 was for $90,962.77. Change order #2 was for $257,549.39. Change order #3 is detailed on the attached spreadsheet in the amount of $34,989.81.

Accordingly, this is to recommend approval for change order 3 to contract 10181 to Baker Klein Engineering, P.L., in the amount of $34,989.81. The maximum indebtedness to the City will be $880,893.30.

Funding for the change order to be encumbered by contract is as follows:

ACCOUNT NO.	Fund	ENCUMBERED AMOUNT
See attached		$34,989.81
TOTALS:		$34,989.81

TF/lw

Attachments

06

ATTACHMENT "A"
ACCOUNT NUMBERS
BERT MAXWELL PARK BULKHEAD IMPROVEMENTS

ACCOUNT NO.	PWCP322SD539-06505-PR0297-03	PWCP322SD539-069505-PR0297-03	PWCP31RF5190-06505-PR0297-03	PWCP31LSD538-06505-PW0781-01
CT NO.	CTPW16000020-01	CTPW16000020-02	CTPW16000020-03	CTPW16000046-01
original contract	$124,641.00	$349,538.63	$23,211.70	$0.00
change order #1	$0.00	$0.00	$6.58	$90,956.19
change order #2	$0.00	$0.00	$0.00	$151,976.87
adjustment c/o 2	$0.00	$0.00	$0.00	($151,976.87)
change order #3	$0.00	$0.00	$0.00	$12,450.61
Account Totals	$124,641.00	$349,538.63	$23,218.28	$103,406.80

ATTACHMENT "A"
ACCOUNT NUMBERS
BERT MAXWELL PARK BULKHEAD IMPROVEMENTS

ACCOUNT NO.	PWCP538SD539-069505-PW0549-03	PWCP538SD539-069505-PW0549-03	PWCP32EVP519-069505-PW0781-01	Contract Totals
CT NO.	CTPW17000036-01	CTPW17000039-01	NEW	
original contract	$0.00	$0.00	$0.00	$497,391.33
change order #1	$0.00	$0.00	$0.00	$90,962.77
change order #2	$105,572.52	$0.00	$0.00	$257,549.39
adjustment c/o 2	($105,572.52)	$257,549.39	$0.00	$0.00
change order #3	$0.00	$0.00	$22,539.20	$34,989.81
Account Totals	$0.00	$257,549.39	$22,539.20	$880,893.30

NBR	MASTER ITEM DESCRIPTION	QUANTITY	UOM	UNIT COST	NET ADDITION	NET DELETION	TOTAL
	UNFORESEEN CONDITIONS						
1	POLYMER FOAM INJECTION	2025	LBS	$16.214815	$32,835.00		**$32,835.00**
	JUSTIFICATION: JUSTIFICATION: The scope of work under the current contract included the replacement and repairs of the main seawall steel sheet piles north and south of the boat ramps. The scope excluded the boat ramp Aluminum sheet pile walls adjacent to the concrete ramps. During construction of the new seawall bulkhead it was discovered that the existing south boat ramp aluminum sheet pile bulkhead to remain had severe corrosion with multiple holes that facilitated the erosion and loss of backfill soil behind the existing sheet piles. The Engineer of Record recommends injection of polymer foam barrier behind the deteriorated sheets to fill the voids of the existing aluminum sheet pile bulkhead, thus preventing future soil loss. The quantities estimated are an upper limit only and the actual final quantity is anticipated to be less. Final cost will be based on actual material quantity used.						
2	FILL DIRT & SOD	1	LS	$2,154.81	$2,154.81		**$2,154.81**
	JUSTIFICATION: The loss of soil through the existing aluminum sheet pile bulkhead along the southern boat ramp will require additional compacted fill behind the existing sheet pile bulkhead and sod after the polymer injection is complete.						
	TOTAL UNFORESEEN CONDITIONS						$34,989.81
	TOTAL CHANGE ORDER #3				$34,989.81	$0.00	
	NET TOTAL CHANGE ORDER NO.3					**$34,989.81**	

CHANGE ORDER BREAKDOWN
BERT MAXWELL BULKHEAD IMPROVEMENTS
CONTRACT NO. 10181

+Change Order No. 1	$90,962.77	+ Change Order No. 2	$257,549.39
Less Contingency Amount	$0.00	Less Contingency Amount	$0.00
Net Change Order No. 1	$90,962.77	Net Change Order No. 2	$257,549.39
+Change Order No. 3	$34,989.81	+ Change Order No. 4	
Less Contingency Amount		Less Contingency Amount	
Net Change Order No. 3	$34,989.81	Net Change Order No. 4	
+Change Order No. 5		+ Change Order No. 6	
Less Contingency Amount		Less Contingency Amount	
Net Change Order No. 5		Net Change Order No. 6	
+Change Order No. 7		+ Change Order No. 8	
Less Contingency Amount		Less Contingency Amount	
Net Change Order No. 7		Net Change Order No. 8	
- Change Order No. 9		+ Change Order No. 10	
Less Contingency Amount		Less Contingency Amount	
Net Change Order No. 9		Net Change Order No. 10	

TOTAL ORIGINAL CONTRACT	$497,391.33
TOTAL CHANGE ORDERS	$383,501.97
TOTAL ENCUMBERED	$880,893.30

Bert Maxwell Park Bulkhead Improvements

Contract # 10181

Change Order #3

Polly Injections-

- Up to 2,025 lbs. of resin will be injected to stabilize the soil on both sides of the boat ramp return walls. We will only bill for the amount of material installed. (Up to 2,025 lbs.)
- Unit price per pound $14.00 x 2,025 lbs. = $28,350
- Mobilization $1,500
- Minimum billing amount of 1,000 lbs. to be used

Sub Total $29,850.00

Prime Markup 10% = $2,985.00

Total $32,835.00

Fill Dirt & Sod

- Two truckloads of fill dirt are required to replace the soils that have been lost due to the holes in the existing walls not included in this contract.
- Fill dirt $160.00 ea. X 2 Loads = $320.00
- One load of sod may be required for the elapsed time of change order approval process.
- Sod, Labor, Delivery cost $273.92
- Operator $30.00 hr. @ 8 hrs. =$240.00 (No Markup)
- Skid Steer rate for per day rental = $809.94
- Project Supervisor for 4 hrs. @ $40.00 ea. = $160.00 (No Markup)

Material Total $593.92

Equipment Total $809.94

Labor Total $400.00

Sub Markup on Material/Equipment 15% = $210.57

Prime Markup 10% = 140.38

Total $ 2,154.81

Change Order #3

Total Job Cost $34,989.81

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Unit Price Service Agreement

Ground Works Solutions, Inc. ("GWS")
4759 Drane Field Road
Lakeland, FL 33811

Phone: (866) 987-3835
Fax: (863) 984-9290
Web: www.groundworkssolutions.com

Sales Representative: Bob Moody **Mobile:** +1 8633272000 **E-Mail:** bmoody@groundws.com

Customer Information ("Customer")

Organization:	Baker Klein		
Contact:	Dustin Trent	**Payment Method**	Check
Address:	1334 Walnut Street Jacksonville, FL 32206		
Phone:	(904) 405-2186	**Terms:**	Net 30
Fax:			
Mobile			
Email:	dtrent@bakerklein.com	**Date:**	August 21, 2017

Project Name:	FL-C-2017-08-21 Bert Maxwell Park Bulkhead
Project Location:	500 Bert Maxwell Road Jacksonville, FL 32218
License #:	CGC1513915; SCC131151491
Method(s) Used:	Deep Injection Process

Project Description

Small holes in approximately 40 linear feet of bulkhead wall are contributing to loss of soil from behind the wall and into the water.

Proposed Solutions ("Services")

URETEK Polymer Injection Application

GWS proposes to perform the scope of work as detailed below, using the URETEK polymer injection process. This repair will be performed utilizing high-density, hydro-insensitive polyurethane foam, URETEK 486STAR. GWS will provide all supervision, labor, materials, supplies, insurance, tools, and equipment necessary to complete the repairs.

Since it is not possible to accurately verify the size and extent of all possible voids in the project area, all work will be performed and invoiced under the unit price method. However, based on our observations of the project area, we would estimate the cost to be $29,850.00. This estimated cost is based upon 2,025 pounds of URETEK 486 Star being required to complete the repair. If less than the estimated pounds of URETEK 486 Star is required to complete the repair, you will only be invoiced for the amount of material actually injected at 14.00/lb. Should any additional URETEK486 Star be required to complete this repair, it would be

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invoiced at 14.00/lb. We will not inject any material above the total estimated pounds without your prior approval. A one-time mobilization fee of $1,500.00 will apply for the project and is included in the estimated Contract Price above.

All work under this proposal shall be performed under and subject to the attached Specifications (EXHIBIT I) under the attached Terms and Conditions (EXHIBIT II). Any Contract or Purchase Order covering work performed from this proposal shall include and reference said Specifications and Terms and Conditions.

Ground Works Solutions, Inc. proposes to mobilize to the site and install a structural polymer (URETEK 486STAR-4R) into the soil in a grid pattern on the land side of the bulkhead wall to seal the holes, fill voids and stabilize the soil. This will be accomplished by injecting the polymer in a 3' by 3' grid pattern utilizing thin wall steel tubing. Approximately 15 injection points will be required to treat the 40 linear foot span of bulkhead wall, with three levels of injection required to treat a 9' vertical profile. Each of the 15 injection points will receive 35, 45 and 55 pounds of polymer at the 3, 6 and 9' level, respectively with a total of 135 pounds of polymer injected per point. A total polymer quantity of 2,025 pounds is required to treat the fifteen points. The polymer is to be billed on a unit price basis at an installed cost of $14 per pound, plus $1,500 lump sum billing for mobilization. Therefore, the total potential project value is $29,850. You will only be billed for the actual quantity of polymer installed, subject to a 1,000 pound minimum billing. The work will take no longer than two days to complete. In compliance with Florida's Professional Practice Act, please note that we are properly licensed to perform the stated scope of work per our Certified General Contractor License No. CGC1513915 and Marine Specialty Contractor License No. SCC131151491, copy attached. Although we can provide pricing for the following upon request, cost is not included for the following: work on the water side of the bulkhead, containment booms, performance and payment bonds, prevailing wage, certified payroll, longshoreman's insurance.

Notes

1. Estimated Project Duration is 2 working days.
2. Exclusions include: Bond, Leak Test, Cosmetic Repair, Surface Repair, Union Labor, Prevailing Wage, Permits, Engineered Drawings, Unforeseen Conditions, Differences in actual site conditions at the time of work, and Any work other than what is specifically outlined within this proposal.
3. This proposal DOES NOT INCLUDE Ground Penetrating Radar (GPR), for private utility locate, within GWS' scope of services. If you would like it added to this contract, please add $750.00.
4. GWS will drill and inject through small holes (typically 5/8" diameter).
5. GWS will patch holes in slab/pavement with epoxy or non-shrink, cementitious grout upon the completion of our work.
6. During the injection process we monitor effect of injections on the surrounding slabs, walls, pipes, joints and structures to determine the amount injection (or lift) required. Structures will probably not be lifted to level since the structures were probably not perfectly level at the time of construction. There is no assurance that cracks will be completely closed since some shifting could have taken place during the time of settlement which could bind the structure and not allow the sides of the crack to fit together as it was prior to the settlement. The soils will be stabilized to prevent future settlement.
7. A leak test of the drainage system should be performed prior to our arrival on site. Owner or Prime Contractor shall employ an Independent Leak Test Company to perform leak test. This will aid in preventing the drainage system from becoming clogged from the injection of the URETEK 486Star. **If there is ANY leak (pinhole opening, faulted joint,

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collapsed pipe, etc.), polyurethane material will penetrate and block pipe. GWS is excluded from any costs or coordination of clearing or replacing pipes.

8. If any hazardous or toxic materials are encountered during the project, the Owner will be responsible for the removal and disposal of the materials.
9. GWS cannot make guarantees regarding the ability of its products as it pertains to lifting and/or underground sealing. Certain factors that are beyond the control of GWS may prevent the ability to lift and/or seal underground structures to a water tight condition. GWS will, at a minimum stabilize any areas worked on, if the CUSTOMER accepts the proposed remedy.
10. Proposal/Agreement expires 45 days from above Date. All Proposals/Agreements not accepted (via CUSTOMER's signature) within 45 days of above Date are no longer value and are subject to reevaluation and resubmission at GWS's discretion.
11. SITE PREPARATION: In some circumstances, the CUSTOMER will be required to do some site preparation. GWS will notify CUSTOMER of such site preparation need prior to start of any project. Examples of preparation activities include (i) performance and technical studies necessary to scope the project, (ii) adequate access to all work sites, (iii) necessary authorizations and/or permits, (iv) traffic control (if required), (v) and other activities as notified by GWS to CUSTOMER. Should CUSTOMER not fulfill the site preparation requirements and a re-mobilization of GWS machinery, material, or personnel is required, GWS will charge CUSTOMER $2,500 as a remobilization fee. Remobilization fee may be waived if CUSTOMER notifies GWS of need to cancel or reschedule within a reasonable amount of time in advance of the originally scheduled project start date.
12. CONFIDENTIALITY: GWS and CUSTOMER shall hold in trust and confidence for each other and shall not disclose to any third party, any confidential information of either party. Confidential information is information which relates to GWS's or CUSTOMER's research, development, trade secrets, methodologies, property characteristics, company or business-related information, project proposals, project quotes, contractual terms or business affairs. CUSTOMER hereby acknowledges that during the performance of this AGREEMENT, CUSTOMER may learn or receive GWS confidential information and therefore CUSTOMER hereby confirms that all such information relating to the GWS's business will be kept confidential by CUSTOMER, except to the extent that such information is required to be divulged to the CUSTOMER's clerical or support staff or associates in order to enable GWS to complete the services hereunder.
13. Subject to the limitations stated below, GWS warrants against material defects in workmanship that may result following the installation of URETEK 486STAR polymer. Said warranty will begin 24 hours after the recorded date of completion of the services provided by the terms of this agreement between Customer and GWS, and shall end at midnight one year from that date. As part of said warranty, Customer must provide written notice to GWS of any suspected defect in workmanship during the warranty period. That written notice must describe each incidence of material defect in reasonable detail, as well as any damage alleged to be resulting from each material defect. Upon receipt of said written notice by Customer, GWS will perform an inspection of the alleged defects within a reasonable time, not to exceed thirty (30) days for residential properties or fifty (50) days for commercial or government properties, following GWS's receipt of Customers written notice. GWS shall not be held responsible for any delays in its inspection that are created by events not within the control of GWS. If, following its inspection, GWS determines, in its sole discretion, that a material defect in workmanship has occurred, then GWS will mobilize to the affected property in an effort to cure the material defect by performing ' work' where required. For purposes of this Section, 'touch-up

work' may include, but not be limited to, the URETEK 486STAR polymer as determined by a professional engineer selected by GWS. LIMITATIONS - In no event will GWS's liability and costs pursuant to this warranty against material defects exceed 20% of the original contract value. GWS shall not be responsible for any damages of any kind to the adjacent infrastructure or structure(s) identified within this agreement, nor shall GWS be responsible for any damages of any kind to the adjacent infrastructure or structure(s), whether caused by or exacerbated by any material defect(s) under this section or whether caused by any other event.

14. MATERIAL FLOW OR TRAVEL: GWS IS NOT RESPONSIBLE FOR damages caused by material travelling up and through any subsurface or surface soil cracks, joints between surface panels, joints between foundations and surface panels, and the like. GWS notifies the CUSTOMER that the polyurethane material used in soil compaction/stabilization, void fill, and structure lifting is very sticky and adheres well to virtually every surface that it touches. CUSTOMER AGREES that CUSTOMER is responsible to remove any structural and/or personal property away from any area that may encounter material migrating to the surface, through joints, around foundations, and the like. CUSTOMER further AGREES that GWS has no responsibility or liability for any damage to CUSTOMER structures or personal property that comes in contact with the URETEK polyurethane material that may travel to the surface.
15. Due to insurance requirements, the CUSTOMER further agrees that any other property damage will be identified and notification made to GWS no later than 12-months from project completion. And that any claims identified and notified by CUSTOMER to GWS after 12-months from project completion will not be recognized or honored by GWS.
16. GOVERNING LAW: This AGREEMENT is subject to and shall be construed in accordance with the laws of the State of Florida, the laws of the federal government of the United States and any rules and regulations of any regulatory body or officer having jurisdiction. In the event of controversy, Hillsborough County in the State of Florida is the lawful jurisdiction. This AGREEMENT is to be performed and executed in the State(s) of Florida and the State the project is located. Any and all disputes arising out of or in any way related to this Agreement or GWS's Services will be resolved by final and binding arbitration in Hillsborough County, Florida, as administered by the American Arbitration Association ("AAA") in accordance with the AAA's Construction Industry Arbitration Rules and Mediation Procedures using a one-member arbitrator panel.
17. Photography of any format of GWS equipment, tools, and materials is expressly prohibited at all times.
18. The CUSTOMER authorizes GWS to use the result of this AGREEMENT as a possible customer case study, in reference data, or marketing and permits GWS to photograph and list the result of this AGREEMENT in electronic and printed matter, including but not limited to web sites, collateral, brochures, data sheets, video, and animation by using before and after photographs of the work performed at the job site listed on this AGREEMENT.
19. If either party, its employees or agents, fails for any reason, whether or not negligent, to fulfill the conditions as contained in this contract, and project scope of work, either parties only remedy shall be to receive a refund of all monies paid for the project. In no event will either party be liable for any lost profits, special, punitive or consequential damages or damages in excess of the amounts received by the other Party under the terms of this Agreement. This limitation will not be valid in any state where prohibited by law.
20. EXHIBITS: This AGREEMENT may contain additional provisions to take into account local municipal, county, or state codes and/or statutes. The following exhibits by their inclusion and attachment become part of this AGREEMENT between GWS and CUSTOMER:

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Exhibit I: Specifications
Exhibit II: Terms and Conditions
Exhibit III: Sample Specification - Bulkhead Repair
Exhibit IV: GC License No. CGC1513915
Exhibit V: Marine Specialty License No. SCC131151491

CUSTOMER AGREES GWS IS NOT LIABLE FOR DAMAGES IN EXCESS OF THE SERVICES PRICE FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, CONSEQENTIAL OR PUNATIVE DAMAGES OR ATTORNEY'S FEES ARISING OUT OF OR IN ANY WAY RELATED TO THE SERVICES, LABOR, MATERIALS, OR EQUIPMENT PROVIDED IN ACCORDANCE WITH THIS AGREEMENT, TO THE FULLEST EXTENT PERMITTED BY LAW.

We look forward to working with you on this project. Should you have any questions or need any additional information, please contact me.

	CUSTOMER		Ground Works Solutions, Inc.
Signature:	_____	Signature:	_____
Authorized Company Representative:	Dustin Trent	Representative's Name:	Bob Moody
Title:		Title	President - Florida
Company Name:	Baker Klein		
Date:	_____	Date:	_____

UNDERGROUND UTILITY MARKING SERVICE REQUIREMENT

CUSTOMER RESPONSIBLE FOR ALL UNDERGROUND UTILITY MARKING PRIOR TO START OF PROJECT. CUSTOMER AGREES TO UTILIZE A PROFESSIONAL UNDERGROUND LOCATING SERVICE TO PERFORM THIS WORK.

Customer Initials: _____

EXHIBIT I - Specifications
SLAB LIFTING & UNDERSEALING WITH POLYURETHANE MATERIAL
SOIL DENSIFICATION WITH POLYURETHANE MATERIAL

1.0 Description. This work shall consist of raising, filling voids, undersealing, or densification of base soils under Portland cement concrete by furnishing, hauling and injecting polyurethane material under the concrete or into the base soils.

2.0 Material.

2.1 The material for raising and undersealing pavements shall be a water blown, closed cell, high density polyurethane system with the following physical characteristics and properties:

Technical Property	Requirement
Density, min., per ASTM D1622 (air rise)	3.69 lbs / ft^3
Compressive strength, min., per ASTMD 1621	60 psi

Density, max., per ASTM D1622 (air rise)	4.2 lbs / ft^3
Volume Change, max. shrinkage (10 years)	5.0 percent
Curing Rate	90 percent of compressive strength within 15 minutes after injection

2.2 The material used for raising and/or undersealing concrete slabs shall be a high-density polyurethane material, such as URETEK 486 Star or equivalent. The material shall be a polyurethane-forming mixture, having a water insoluble diluent, that permits the formation of polyurethanes in excess water. The presence of these water insoluble diluents provides polyurethane foam with improved dimensional stability properties. This formula and these characteristics must be certified by the manufacturer.

2.3 All stored polyurethane material shall be sealed and protected from contamination of dust or any foreign material.

3.0 Contractor Pre-Qualification Requirements.

3.1 The contractor shall have a minimum of three years of experience in performing this type of work and a minimum of 50 projects on which the contractor has successfully done this type of work.

4.0 Equipment Requirements. The contractor shall provide at minimum, the following equipment:

A vehicle-mounted pumping unit capable of injecting the high density polyurethane material beneath the concrete slabs. The pumping unit shall be equipped with a dial gauge in increments of 1/10 pound (45 g) and shall be capable of controlling the rate of flow of material as well as the rate of rise of the pavement.

(b) Pressure and temperature control devices capable of maintaining proper temperature and proportionate mixing of the polyurethane component materials.

(c) Pneumatic or electric drills capable of efficiently drilling 9/16 to 3/4-inch (14-19 mm) diameter injection holes through the pavement without damaging the structural integrity of the existing pavement.

(d) Laser levels or dial indicator devices capable of monitoring and verifying that the pavement is raised to an even plane and to the required elevation.

(e) All necessary electric generators, compressors, heaters, hoses, containers, valves and gauges to efficiently conduct and control the work.

5.0 Construction Requirements.

5.1 At locations where the concrete is to be raised or undersealed, a series of 5/8" to ¾" diameter holes shall be drilled through the surface structure and underlying base at the appropriate locations and depths as determined by the contractor.

5.2 The polyurethane material shall be injected through the drilled holes until all known or encountered voids under the concrete slab work area are filled. The rate and amount of material injection shall be determined by the contractor.

5.3 Injection nozzles shall prevent leakage during injection and shall be removed at completion of the injection or driven into the injection hole to a minimum of 3/4 inches below the surface. Any excessive material on the pavement surface shall be removed from the area and the holes shall be sealed with polyurethane material or a non-expansive cementitious grout approved by the engineer.

5.4 All drill tailings, excess polyurethane material and other debris shall be cleaned up and removed at the end of each working day. All removed material shall be disposed of in an environmentally acceptable manner in accordance with all federal, state and local regulations.

5.5 For soil densification and compaction of unconsolidated base soils, a series of 14 mm up to 35 mm holes (as required for tube placement) shall be drilled at approximately 3-4 foot spaced intervals through the work area above the area requiring soil remediation. The exact location, spacing, hole size and depth shall be determined by the contractor.

5.6 The Polyurethane material shall be injected through injection tubes inserted into the drilled holes to the proper depth or depths as determined by on-site soils analysis, or dynamic cone penetrometer testing. The rate and amount of material injected shall be determined by the contractor.

5.7 Continuous laser level or dial indicator micrometer readings shall be in place and monitored by the contractor during injection as a means of determining sufficient material usage and soils densification as indicated by surface movement of 1-2 mm. Material will be injected until surface movement, predetermined quantity calculations, or as determined by onsite project foreman.

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6.0 Method of Measurement. Polyurethane material will be measured to the nearest tenth of a pound.

7.0 Basis of Payment. The quantities of polyurethane material injected beneath the concrete slab area will be paid for at the contract price.

EXHIBIT II - Terms and Conditions

Standard of Care. GWS shall perform the Work in a manner acceptable to Customer and consistent with the level of care and skill exercised under similar conditions by competent members of the profession which GWS practices, or industry or business in which GWS works (the "Standard of Care").

GWS carries workman's compensation and limited general liability insurance.

GWS will not be responsible for or repair damage to utilities, including but not limited to, electrical or telephone cabling, drain, fire sprinkler, sewer and/or water lines. GWS will not be held liable for any damage to other parts of the structure or finish work within the work area, which may result from void filling or structure realignment and will not repair such damage.

Area of work will be left free from trash and debris related to the work of GWS crews.

GWS makes no representations and will not be responsible for any damage to the repair area caused by ground subsidence or settlement of native soils, subsoil conditions, structural problems, dynamic or static loads much higher than the design loads at the time of the GWS intervention, damages caused by excavations, product tampering, natural catastrophes (storms, floods, drought, tides, earthquakes, explosions, fire, etc.).

This proposal is subject to State and local sales and use taxes, as applicable, unless client provides acceptable exemption certification.

Customer will provide –

- Adequate access to the work sites.
- Any necessary authorizations or permits.
- Customer or representative on site during the time work is taking place.

Payment Due Net 30 days from the completion of our scope of work.

This proposal is valid for forty-five (45) days from the above date.

EXHIBIT III - Sample Specification - Bulkhead Repair

United Rentals

RENTAL QUOTE

BRANCH 112
5402 PHILLIPS HIGHWAY
JACKSONVILLE FL 32207
904-636-6336
904-733-6448 FAX

149384980

Customer #	: 1411844
Quote Date	: 08/17/17
Estimated Out	: 08/17/17 12:00 PM
Estimated In	: 08/24/17 12:00 PM
UR Job Loc	: 500 BERT MAXWELL ROA
UR Job #	: 22
Customer Job ID:	
P.O. #	: QUOTE
Ordered By	: DUSTIN
Written By	: ANGELA PHILLIPS
Salesperson	: HOUSE ACCOUNT

Job Site

BERT MAXWELL BOAT RAMP
500 BERT MAXWELL ROAD
x:@@@
JACKSONVILLE FL 32218
Office: 904-356-8520 Cell: 904-405-2186

BAKER KLEIN ENGINEERING P L
1334 WALNUT ST
JACKSONVILLE FL 32206-5142

This is not an invoice
Please do not pay from this document

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Estimated Amt.
1	9030580	SKID STEER TRACK LOADER 2000-2399#		365.00	1055.00	2225.00	1,055.00
						Rental Subtotal:	1,055.00

SALES/MISCELLANEOUS ITEMS:

Qty	Item		Price	Unit of Measure	Extended Amt.
1	ENVIRONMENTAL SERVICE CHARGE	[ENV/MCI]	13.710	EACH	13.71
1	DELIVERY CHARGE		110.000	EACH	110.00
1	PICKUP CHARGE		110.000	EACH	110.00
				Sales/Misc Subtotal:	233.71
				Agreement Subtotal:	1,288.71
				Rental Protection:	158.25
				Tax:	74.81
				Estimated Total:	1,521.77

COMMENTS/NOTES:

DUSTIN 405 2106

one day = $807.74

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687)
WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION #
IN ORDER TO CLOSE THIS CONTRACT

This proposal may be withdrawn if not accepted within 30 days. The above referenced Rental Protection Plan, environmental, and tax charges are estimates and are subject to change.

THIS IS NOT A RENTAL AGREEMENT. THE RENTAL OF EQUIPMENT AND ANY OTHER ITEMS LISTED ABOVE IS SUBJECT TO AVAILABILITY AND ACCEPTANCE OF THE TERMS AND CONDITIONS OF UNITED'S RENTAL AGREEMENT, WHICH MUST BE SIGNED PRIOR TO OR UPON DELIVERY OF THE EQUIPMENT AND OTHER ITEMS.

McMaster Grassing
Installed Pricing

	1-4 pallets		5-7 Pallets		8-11 pallets		1 load	
Sod Type	Per Pallet	S.F. Price	Per Pallet	S.F. Price	Per Pallet	S.F. Price	Per Pallet	S
Floratam	$ 220.50	$ 0.49	$ 175.50	$ 0.39	$ 139.50	$ 0.31	$ 130.50	$
Classic	$ 280.00	$ 0.56	$ 230.00	$ 0.46	$ 190.00	$ 0.38	$ 180.00	$
Palmetto	$ 225.00	$ 0.50	$ 180.00	$ 0.40	$ 144.00	$ 0.32	$ 135.00	$
Seville	$ 226.00	$ 0.50	$ 180.00	$ 0.40	$ 144.00	$ 0.32	$ 135.00	$
Common Bermuda	$ 202.50	$ 0.45	$ 157.50	$ 0.35	$ 121.50	$ 0.27	$ 112.50	$
419	$ 250.00	$ 0.50	$ 200.00	$ 0.40	$ 160.00	$ 0.32	$ 150.00	$
Paspalum	$ 385.00	$ 0.77	$ 335.00	$ 0.67	$ 295.00	$ 0.59	$ 285.00	$
Centipede	$ 216.00	$ 0.54	$ 176.00	$ 0.44	$ 144.00	$ 0.36	$ 136.00	$
Empire Zoysia	$ 256.50	$ 0.57	$ 211.50	$ 0.47	$ 175.50	$ 0.39	$ 166.50	$
Bahia	$ 164.00	$ 0.41	$ 124.00	$ 0.31	$ 92.00	$ 0.23	$ 84.00	$

McMaster Grassing
Delivered Pricing
(tax & pallet deposit not included)

	1-4 pallets		5-7 Pallets		8-11 pallets		12 + pall	
Sod Type	Per Pallet	S.F. Price	Per Pallet	S.F. Price	Per Pallet	S.F. Price	Per Pallet	S
Floratam	$ 121.50	$ 0.27	$ 121.50	$ 0.27	$ 121.50	$ 0.27	$ 103.50	$
Classic	$ 170.00	$ 0.34	$ 170.00	$ 0.34	$ 170.00	$ 0.34	$ 150.00	$
Palmetto	$ 126.00	$ 0.28	$ 126.00	$ 0.28	$ 126.00	$ 0.28	$ 108.00	$
Seville	$ 126.00	$ 0.28	$ 126.00	$ 0.28	$ 126.00	$ 0.28	$ 108.00	$
Common Bermuda	$ 99.00	$ 0.22	$ 99.00	$ 0.22	$ 99.00	$ 0.22	$ 81.00	$
419	$ 140.00	$ 0.28	$ 140.00	$ 0.28	$ 140.00	$ 0.28	$ 120.00	$
Paspalum	$ 235.00	$ 0.47	$ 235.00	$ 0.47	$ 235.00	$ 0.47	$ 215.00	$
Centipede	$ 112.00	$ 0.28	$ 112.00	$ 0.28	$ 112.00	$ 0.28	$ 96.00	$
Empire Zoysia	$ 148.50	$ 0.33	$ 148.50	$ 0.33	$ 148.50	$ 0.33	$ 130.50	$
Bahia	$ 80.00	$ 0.20	$ 80.00	$ 0.20	$ 80.00	$ 0.20	$ 64.00	$

McMaster Grassing
Ripout & Replace Pricing

	1-4 pallets		5-7 Pallets		8-11 pallets		12 + pall	
Sod Type	Per Pallet	S.F. Price	Per Pallet	S.F. Price	Per Pallet	S.F. Price	Per Pallet	S
Floratam	$ 333.00	$ 0.74	$ 310.50	$ 0.69	$ 288.00	$ 0.64	$ 243.00	$
Classic	$ 405.00	$ 0.81	$ 380.00	$ 0.76	$ 355.00	$ 0.71	$ 305.00	$
Palmetto	$ 337.50	$ 0.75	$ 315.00	$ 0.70	$ 292.50	$ 0.65	$ 247.50	$
Seville	$ 337.50	$ 0.76	$ 315.00	$ 0.70	$ 292.50	$ 0.65	$ 247.50	$
Common Bermuda	$ 310.50	$ 0.69	$ 288.00	$ 0.64	$ 265.50	$ 0.59	$ 220.50	$
419	$ 375.00	$ 0.75	$ 350.00	$ 0.70	$ 325.00	$ 0.65	$ 275.00	$
Paspalum	$ 510.00	$ 1.02	$ 485.00	$ 0.97	$ 460.00	$ 0.92	$ 410.00	$
Centipede	$ 316.00	$ 0.79	$ 296.00	$ 0.74	$ 276.00	$ 0.69	$ 236.00	$
Empire Zoysia	$ 360.00	$ 0.80	$ 337.50	$ 0.75	$ 315.00	$ 0.70	$ 270.00	$
Bahia	$ 256.00	$ 0.64	$ 236.00	$ 0.59	$ 216.00	$ 0.54	$ 176.00	$

SUBJECT: **BERT MAXWELL PARK BULKHEAD IMPROVEMENTS- JSEB SET-ASIDE**

BID# JCF-0176-15 OPEN DATE: **2015-09-09**

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION FIXED- JSEB SET-ASIDE

AGENCY: **PUBLIC WORKS**

BASIS OF AWARD: **LOWEST RESPONSIVE, RESPONSIBLE BIDDER- TOTAL BASE BID**

NUMBER OF BIDS INVITED 6 NUMBER RECEIVED 5 OTHER 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Subject bid was approved on 09/24/15 to enter into post-bid/pre-award negotiations with Baker Klein Engineering, P.L. (contract #10181); Negotiations were approved on 11/19/15 in the amount of $497,391.33; Change Order #1 was approved on 05/26/16 in the amount of $90,962.77.

Recommend approval of Change Order #2 to Baker Klein Engineering, P.L., in the amount of $257,549.39, to provide additional funds to address unforeseen conditions, indentified after construction started, in order to complete the Bert Maxwell Bulkhead. Total revised award amount not-to-exceed $845,903.49.

This award to be funded by account: PWCP31LSD538-06505-PW0781-01 to be executed by contract change order through Office of General Counsel.

Attachments: Recommendation Memo, Change Order, Previous Award(s)

BUYER: Marilyn Laidler
MARILYN LAIDLER

RESPECTFULLY SUBMITTED: Gregory Pease
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: **Tom Fallin, P.E., Chief, Engineering and Construction Management Division**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)

ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 3 MEMBERS DISAPPROVING Ø DATE: 1/26/17

Teresa R. Eiber

OTHER:

ACTION OF AWARDING AUTHORITY DATE: 1/26/17

APPROVED

DISAPPROVED

OTHER

SIGNATURE OF AUTHENTICATION

Sam E. Mousa
Chief Administrative Officer
For Mayor Jerry Curry
Under Authority of
Executive Order No. 2015-05

FORM GB-108, Revised 12/2007

SUBJECT: **BERT MAXWELL PARK BULKHEAD IMPROVEMENTS- JSEB SET-ASIDE**

BID# JCF-0176-15 OPEN DATE: **2015-09-09**

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION FIXED- JSEB SET-ASIDE

AGENCY: **PUBLIC WORKS**

BASIS OF AWARD: **LOWEST RESPONSIVE, RESPONSIBLE BIDDER- TOTAL BASE BID**

NUMBER OF BIDS INVITED 6 NUMBER RECEIVED 5 OTHER 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Subject bid was approved on 09/24/15 to enter into post-bid/pre-award negotiations with Baker Klein Engineering, P.L.; Negotitations were approved on 11/19/15 in the amount of $497,391.33.

Recommend approval of Change Order #1 to Baker Klein Engineering, P.L., (contract #10181) in the amount of $90,962.77, for a revised total award amount not-to-exceed $588,354.10.

This award to be funded by account: PWCP31LSD538-06505-PW0381-02 to be executed by contract change order #1 through Office of General Counsel.

Attachments: Recommendation Memo, Change Order, Previous Award(s)

BUYER: Marilyn Laidler SBA
MARILYN LAIDLER

RESPECTFULLY SUBMITTED: _____
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: **Tom Fallin, P.E., Chief, Engineering and Construction Management Division**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)

ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 3 MEMBERS DISAPPROVING _____ DATE: 5-26-16

Teresa R. Eidson _____ OTHER: _____

_____ _____

James R McCarty _____

ACTION OF AWARDING AUTHORITY DATE: 5/26/16

APPROVED ✓ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION Sam E. Mousa

Sam E. Mousa
Chief Administrative Officer
For: Mayor Lenny Curry
Under Authority of:
Executive Order No. 2015-05

FORM GB-108, Revised 12/2007

SUBJECT: **BERT MAXWELL PARK BULKHEAD IMPROVEMENTS- JSEB SET-ASIDE**

BID# JCF-0176-15 OPEN DATE: **2015-09-09**

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION FIXED- JSEB SET-ASIDE

AGENCY: **PUBLIC WORKS**

BASIS OF AWARD: **LOWEST RESPONSIVE, RESPONSIBLE BIDDER- TOTAL BASE BID**

NUMBER OF BIDS INVITED 6 NUMBER RECEIVED 5 OTHER 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Subject bid was awarded on 09/24/15 to enter into post-bid/pre-award negotitations with Baker Klein Engineering.

Recommend approval of award to Baker Klein Engineering, the lowest responsive, responsible bidder in the amount of $497,391.33, as a result of negotiation in a net savings of $101,846.72 due to reductions in scope and some value engineering, per attached Exhibit "A".

This award to be funded by account(s): PWCP322SD539-06505-PR0297-03- $124,641.00; PWCP322SD539-069505-PR0297-03- $349,538.63; PWCP31RF5190-06505-PR0297-03- $23,211.70 to be executed by formal contract through Office of General Counsel.

Attachments: Recommendation Memo, Bid Tabulation Sheet, Exhibit "A", Basis of Award, Scope of Work, Previous Award

BUYER: Marilyn Laidler
MARILYN LAIDLER

RESPECTFULLY SUBMITTED: _____
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: **William Joyce, P.E., Chief, Engineering and Construction Management Division**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 3 MEMBERS DISAPPROVING _____ DATE: 11-19-15

OTHER: _____

ACTION OF AWARDING AUTHORITY DATE: 11/19/15

APPROVED ✓ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____

FORM GB-108, Revised 12/2007

SUBJECT: **BERT MAXWELL PARK BULKHEAD IMPROVEMENTS- JSEB SET-ASIDE**

BID# JCF-0176-15 OPEN DATE: **2015-09-09**

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT:
CONSTRUCTION FIXED- JSEB SET-ASIDE

AGENCY: **PUBLIC WORKS**

BASIS OF AWARD: **LOWEST RESPONSIVE, RESPONSIBLE BIDDER - TOTAL BASE BID**

NUMBER OF BIDS INVITED **6** NUMBER RECEIVED **5** OTHER **0**

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Recommend approval to enter into post-bid/pre-award negotiations with the lowest responsive, responsible bidder Baker Klein Engineering, per Chapter 126, Part 2, 126.201(D)(4).

Attachments: Recommendation Memo, Bid Tabulation, JSEB Letter, Basis of Award, Scope of Work

BUYER: _____ RESPECTFULLY SUBMITTED: _____
MARILYN LAIDLER
GREGORY PEASE, CHIEF
PROCUREMENT DIVISION

CONCURRENCE BY: **William Joyce, P.E., Chief, Engineering and Construction Management Division**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE
MEMBERS APPROVING 3 MEMBERS DISAPPROVING _____ DATE: 9-24-15

_____ OTHER: _____
_____
_____

ACTION OF AWARDING AUTHORITY DATE: 9/24/15

APPROVED _____ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____
Sam E. Mousa
Chief Administrative Officer
For: Mayor Lenny Curry
Under Authority of:
Executive Order No. 2015-05

FORM GB-108, Revised 12/2007

FISCAL MO/YEAR : 01 2018 CURRENCY CODE :
INDEX CODE : PWCP31LSD538 CAPITAL PROJ REV BONDS 1997
SUBOBJECT : 06505 OTHER CONSTRUCTION COSTS
PROJECT : PW0781 COUNTYWIDE BULKHEAD
PROJECT DETAIL : 01 COUNTYWIDE BULKHD-ASSMNT,REPAIR,REPLCEMT
GRANT :
GRANT DETAIL :
USER CODE :

S	OCT 2017	ANNUAL BALANCE	ALL YEARS BALANCE
ESTIMATED REVENUES	.00	.00	.00
REVENUES	.00	.00	.00
UNREALIZED REVENUES	.00	.00	.00
BUDGET	.00	.00	324,084.92
EXPENDITURES	.00	.00	278,565.07
ENCUMBRANCES	.00	.00	33,069.24
PRE-ENCUMBRANCES	.00	.00	.00
REMAINING BALANCE	.00	.00	12,450.61

F1-HELP F2-SELECT F4-PRIOR F5-NEXT
F9-LINK F10-PRIOR-MO F11-NEXT-MO

G005 - PRIOR RECORD DISPLAYED

FISCAL MO/YEAR : 01 2018 CURRENCY CODE :
INDEX CODE : PWCP32EVP519 PUBLIC WORKS VARIOUS CAPITAL PROJECTS
SUBOBJECT : 069505 DM-OTHER CONSTRUCTION COSTS
PROJECT : PW0778 LIBERTY ST/COASTLINE DR/ PARKING DECKS
PROJECT DETAIL : 01 LIBERTY ST/COASTLINE DR/ PARKING DECKS
GRANT :
GRANT DETAIL :
USER CODE :

S	OCT 2017	ANNUAL BALANCE	ALL YEARS BALANCE
ESTIMATED REVENUES	.00	.00	.00
REVENUES	.00	.00	.00
UNREALIZED REVENUES	.00	.00	.00
BUDGET	8,000,000.00	8,000,000.00	26,000,000.00
EXPENDITURES	.00	.00	7,101,194.02
ENCUMBRANCES	.00	.00	10,645,877.00
PRE-ENCUMBRANCES	.00	.00	.00
REMAINING BALANCE	8,000,000.00	8,000,000.00	8,252,928.98

F1-HELP F2-SELECT F4-PRIOR F5-NEXT
F9-LINK F10-PRIOR-MO F11-NEXT-MO
G005 - PRIOR RECORD DISPLAYED

JCF-0176-15	Baker Klein Engineering, P.L.	
11/19/2015	$497,391.33	Award
5/26/2016	$90,962.77	Change Order #1
1/26/2017	$257,549.39	Change Order #2
Pending	$34,989.81	Change Order #3

$880,893.30 Total Award