

AGENDA
TOWN OF EDISTO BEACH
February 24, 2017
SPECIAL TOWN COUNCIL MEETING
10:00 A.M.

- I. **Call to Order**
- II. **Old Business**
 - A. Wharton Smith Change Order No. 1
- III. **New Business**
 - A. Scrivener's Error – January 12, 2017, Regular Council Meeting Minutes
 - B. Marinex Construction, Inc. Change Order No. 1
 - C. Water System Improvement Preliminary Engineering Report
 - D. Request for Proposals No. 2017-03 Unpaved Road Repair-Hurricane Matthew Award of Bid
 - E. Request for Proposals for Underwriting Services Combined Water and Sewer System Revenue Bonds, Series 2017 Award of Bid
- IV. **Public Comment Period**
- V. **Adjournment**

OLD

111A

C. State Revolving Fund/Rural Water Infrastructure – The Water and Sewer Committee met on December 16, 2016 and discussed the possibility of extending front beach sewer by utilizing state revolving funds and/or a grant from the South Carolina Rural Infrastructure fund. They unanimously approved to table this issue until further notice. Mayor Pro Tem Hornsby moved to approve the recommendation of the Water and Sewer Committee to table the issue. Councilman Moore seconded the motion. Councilwoman Smyer mentioned that the extension of the front beach sewer would not help property owners affected by Hurricane Matthew. Those property owners who are replacing septic tanks would have to do that prior to tying in, since the sewer project would take several years. Mayor Darby called for the vote and the motion was unanimously approved.

New Business

A. Resolution No. 2017-R01 Jury Box Resolution – Councilman Kizer moved to approve Resolution No. 2017-R01, the Jury Box Resolution. The motion was seconded by Councilwoman Smyer and unanimously approved.

B. 2017 Legislative Initiatives – Councilman Moore moved to approve the 2017 Legislative Initiatives, which are as follows, and include **in bold**:

- State Accommodations Tax – Edisto Beach is the only coastal town that does not receive greater than \$900,000 in ATAX so the Town is required to have TERC oversight. Edisto Beach should be exempted from this oversight and treated the same as other coastal communities.
- Beach Nourishment – Promote a state permanent funding source for beach nourishment
- Flexible Permitting – Recommended allowing for a flexible construction window which provides for cost savings **while continuing to protect land and marine wildlife.**
- Local Government Fund – Promote fully funding the LGF

Councilwoman Smyer seconded the motion, which was unanimously approved.

C. Thomas and Hutton Work Authorization #16-02 – Councilwoman Smyer moved to approve work authorization #16-02 to provide technical specifications to replace existing booster pumps at the ground storage tank at a lump sum cost of \$1,200 to be paid from Water R & R. The Water and Sewer Committee recommends the Town seek bids to determine if the cost is feasible to replace the booster pumps. Councilman Kizer seconded the motion, which was unanimously approved.

D. Wharton Smith Change Order No. 1 – Councilwoman Smyer moved to approve the change order submitted by Wharton Smith increasing the original contract amount of \$90,000 (Phase I) by \$332,000 (Phase 2) for a revised contract amount of \$422,000 to provide 60% construction documents for the water system improvement project and authorize the Mayor to execute the change order. This will be funded by the revenue bond. The motion was seconded by Councilman Kizer and unanimously approved.

E. Emergency Purchase Orders – Hurricane Matthew – The Town's emergency purchase policy requires the following be read into the minutes:

- a) Jungle Shores 6" Water Main - \$7,125.00
- b) Wellfield off Palmetto Road - \$12,500.00
- c) Wellfield Wells #4 and #5 - \$13,525.00
- d) Palmetto Boulevard from 100 – 1000 and Point Street - \$691,792.50

NEW

C. State Revolving Fund/Rural Water Infrastructure – The Water and Sewer Committee met on December 16, 2016 and discussed the possibility of extending front beach sewer by utilizing state revolving funds and/or a grant from the South Carolina Rural Infrastructure fund. They unanimously approved to table this issue until further notice. Mayor Pro Tem Hornsby moved to approve the recommendation of the Water and Sewer Committee to table the issue. Councilman Moore seconded the motion. Councilwoman Smyer mentioned that the extension of the front beach sewer would not help property owners affected by Hurricane Matthew. Those property owners who are replacing septic tanks would have to do that prior to tying in, since the sewer project would take several years. Mayor Darby called for the vote and the motion was unanimously approved.

New Business

A. Resolution No. 2017-R01 Jury Box Resolution – Councilman Kizer moved to approve Resolution No. 2017-R01, the Jury Box Resolution. The motion was seconded by Councilwoman Smyer and unanimously approved.

B. 2017 Legislative Initiatives – Councilman Moore moved to approve the 2017 Legislative Initiatives, which are as follows, and include **in bold**:

- State Accommodations Tax – Edisto Beach is the only coastal town that does not receive greater than \$900,000 in ATAX so the Town is required to have TERC oversight. Edisto Beach should be exempted from this oversight and treated the same as other coastal communities.
- Beach Nourishment – Promote a state permanent funding source for beach nourishment
- Flexible Permitting – Recommended allowing for a flexible construction window which provides for cost savings **while continuing to protect land and marine wildlife.**
- Local Government Fund – Promote fully funding the LGF

Councilwoman Smyer seconded the motion, which was unanimously approved.

C. Thomas and Hutton Work Authorization #16-02 – Councilwoman Smyer moved to approve work authorization #16-02 to provide technical specifications to replace existing booster pumps at the ground storage tank at a lump sum cost of \$1,200 to be paid from Water R & R. The Water and Sewer Committee recommends the Town seek bids to determine if the cost is feasible to replace the booster pumps. Councilman Kizer seconded the motion, which was unanimously approved.

D. Wharton Smith Change Order No. 1 – Councilman Moore moved to approve the change order submitted by Wharton Smith increasing the original contract amount of \$90,000 by \$332,000 for a revised contract amount of \$422,000 to provide 60% construction documents for the water system improvement project and authorize the Mayor to execute the change order. This will be funded by the revenue bond. The motion was seconded by Councilwoman Smyer and unanimously approved.

E. Emergency Purchase Orders – Hurricane Matthew – The Town's emergency purchase policy requires the following be read into the minutes:

- a) Jungle Shores 6" Water Main - \$7,125.00
- b) Wellfield off Palmetto Road - \$12,500.00
- c) Wellfield Wells #4 and #5 - \$13,525.00
- d) Palmetto Boulevard from 100 – 1000 and Point Street - \$691,792.50

Councilman Kizer moved to approve the emergency purchase orders, seconded by Councilwoman Smyer and approved unanimously.

C-941

Change Order

No. 1

Date of Issuance: 10 February 2017 Effective Date: 10 February 2017

Project: Edisto Beach Renourishment	Owner: Town of Edisto Beach (SC)	Owner's Contract No.:
Contract:	Date of Contract: 8 December 2016	
Contractor: Marinex Construction, Inc.	Engineer's Project No.: 2416	

The Contract Documents are modified as follows upon execution of this Change Order:

Description:

The Contractor shall follow the Engineer's instructions on site and place additional 30,000 cubic yards (cy) of sand along Reach 1 at a unit price of \$10.23 per cy and additional 20,072 cy of sand along Reach 4 at a unit price of \$9.62 per cy. Borrow areas and substantial and final completion dates remain the same.

Attachments (list documents supporting change):

N/A

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIMES:

Original Contract Price: \$11,698,780.00

Original Contract Times: [] Working days [X] Calendar days
Substantial completion (days or date): 15 April 2017
Ready for final payment (days or date): 30 April 2017

[Increase] [Decrease] from previously approved Change Orders No. N/A to No. N/A: \$N/A

[Increase] [Decrease] from previously approved Change Orders No. N/A to No. N/A: Substantial completion (days): N/A
Ready for final payment (days): N/A

Contract Price prior to this Change Order: \$11,698,780.00

Contract Times prior to this Change Order: Substantial completion (days or date): 15 April 2017
Ready for final payment (days or date): 30 April 2017

[Increase] [Decrease] of this Change Order: \$ 500,000.00

[Increase] [Decrease] of this Change Order: Substantial completion (days): 0
Ready for final payment (days): 0

Contract Price incorporating this Change Order: \$ 12,198,780.00

Contract Times with all approved Change Orders: Substantial completion (days or date): 15 April 2017
Ready for final payment (days or date): 30 April 2017

RECOMMENDED PROFESSIONAL ENGINEER
By: [Signature]
Engineer (Authorized Signature)
Date: 10 Feb 2017
LIU KACZKOWSKI

ACCEPTED:
By: _____
Owner (Authorized Signature)
Date: _____

ACCEPTED:
By: _____
Contractor (Authorized Signature)
Date: _____

Change Order Instructions

A. GENERAL INFORMATION

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directive must be incorporated into a subsequent Change Order if they affect Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating Change Orders to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed in the Agreement, any effect of a Change Order thereon should be addressed.

For supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order should be used.

B. COMPLETING THE CHANGE ORDER FORM

Engineer normally initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from Owner, or both.

Once Engineer has completed and signed the form, all copies should be sent to Owner or Contractor for approval, depending on whether the Change Order is a true order to the Contractor or the formalization of a negotiated agreement for a previously performed change. After approval by one contracting party, all copies should be sent to the other party for approval. Engineer should make distribution of executed copies after approval by both parties.

If a change only applies to price or to times, cross out the part of the tabulation that does not apply.

111c

Iris Hill

From: Arnold Ellison <aellison@hhpsd.com>
Sent: Tuesday, February 21, 2017 9:10 AM
To: Iris Hill
Cc: Arnold Ellison
Subject: PDB Contract
Attachments: GMPedistoFEB2017rev1.pdf; 2017-2Matrixcover.pdf

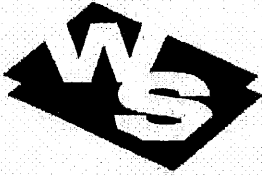
Iris,

Attached is an explanation from Tim Smith for the determination of the GMP and a matrix that identifies all of the components of the RO project. With this information I believe that all of the requirements for phase I have been met.

As we have discussed, it will require the design of the project to a 60% level to get actual bids for the construction phase. I therefore agree that the \$300,000 fee for the next phase of the design should be released. I also feel that the Phase II contract should be reviewed and executed as suggested by Tim.

Please let me know if you have any questions that should be answered before the Council meeting this Friday.

Arnold Ellison P.E.



Wharton-Smith, Inc.
CONSTRUCTION GROUP

February 20, 2017

Mr. Arnold Ellison

Dear Mr. Ellison:

Per our telephone conversation, I am forwarding a copy of the budget matrix, with brief notes, developed for the RO project, which we are now calling a GMP.

The attached matrix indicates the line items used to generate the \$7.2million budget and scope of work requested for the proposed RO Plant. The \$7.2 million "guaranteed maximum price" will not exceed this amount as scoped. Our goal is to bid the work out and deliver the project for less than \$7.2million.

The line item amounts in the attached matrix ultimately summing to \$7.2million, are based on unit prices and estimated quantities.

- The unit prices for most line items are from Wharton Smith's historical data.
- Harn RO provided the budget for the RO equipment, which was based on suggested water quality requirements and suggested capacity of the water needs at the time of generating an overall project budget.
- Santee Well pricing was discussed with Layne Atlantic for drilling, but WS prepared the overall unit cost for budget.

The project scope and estimate at 60% design will be much more accurate and allow us to identify our budget opportunities and challenges in a much clearer way.

When full funding for the project is in place, I suggest that we amend our contract to use the DBIA contract language for Progressive Design Build. The contract template was included in the RFP as an option. This would allow us to define general conditions, overhead and profit per DBIA contract language. The intent is to make sure these costs are all clear to the team prior to starting any construction activities.

If you have any additional questions, please do not hesitate to call.

Respectfully,

Wharton-Smith, Inc.

Timothy S. Smith
Vice President

SCOPING/OPTIONS MATRIX AGREEMENT PHASE 1 SERVICES

Wharton-Smith, Inc.
750 Monroe Road ■ Sanford, Florida 32771
Phone: 407/321-8410 Website: www.whartonsmith.com

Return Contract to: **Wharton-Smith, Inc.** ■ 750 Monroe Road ■ Sanford, Florida 32771 ■ ATTN: Clyde W. Burgess, P.E. ■ Email: cburgess@whartonsmith.com

Client: Town of Edisto Beach ■ 2414 Murray Street ■ Edisto Beach, South Carolina 29438 ■ ATTN: Iris Hill, Town Administrator ■ 843 869 2525 x 211

RE: PROGRESSIVE DESIGN BUILD WATER SYSTEM IMPROVEMENT PROJECT

Date: 5/19/2015

1. Scope of Work:

- A. Develop preliminary engineering information, with minimal regulatory agency coordination and geotechnical investigations required for preparation of a matrix of water system supply and quality improvement implementation options. Previous studies and costs will be used where feasible.
- B. Provide a presentation of the matrix of water system improvement options, and coordinate Owner selection of a water system improvement implementation plan derived from the option matrix.
- C. Provide matrix to phase project with no duplication or improvements that would be abandoned. Infrastructure improvements that can be incorporated into the plan should be identified. Include infrastructure improvements from previous studies in the plan. The latest Capital Improvement Plan is attached for reference.
- D. Perform engineering studies (such as supply well investigations, raw water analyses, etc.) to support design and cost estimating. This excludes any test well drilling. Previous studies will be used where feasible.
- E. Produce a Project preliminary engineering report (PER) to be approved by the Owner for submittal to SC DHEC. Identify Project permitting requirements and initiate permitting activities. The PER will be used to provide the GMP. The GMP proposal and schedule will include the supporting design documentation and open-book costing information utilized for the GMP from conception to completion.
- F. The cost for development of the engineering design documents required for permitting and construction of the project will be included in the GMP as part of the Phase Two services.
- G. Submit and negotiate a GMP proposal to complete the Phase Two services. It is the Town's desire to implement a sequential phased approach.

The Town of Edisto Beach will provide the following information; (See Index of attachments) *at 6/17/15*

1. Hydraulic model of distribution system on CD (Validation is required). Attachment 1
2. Digital mapping of existing water infrastructure. Attachment 2
3. Most current existing well pumping records and laboratory analysis not already provided to us. Attachment 3
4. Legal descriptions of properties associated with the Project. Attachment 4
5. Geotechnical studies describing subsurface conditions and any survey describing other latent or concealed physical conditions on properties associated with the Project. Attachment 5

6. Record drawings that might be available for any structures and/or utilities on properties associated with the Project. Attachment 6
7. Any available customer surveys of in-house reverse osmosis systems. Attachment 7
8. Any DHEC communications with regards to potential concentrate disposal options. Attachment 8
9. Digital files of previous studies located on Town website. (Located on Town website)

2. Price: \$90,000.00 total lump sum, to include all work, fees, expenses and costs of DB Team associated with the work and services set forth herein.

3. Documents Incorporated by Reference: All RFQ documents (provided that if any terms of this contract conflict with the RFQ document terms, the RFQ shall govern) and additional information provided by the Town of Edisto Beach

4. Deliverables from this Agreement:

- A. Optimization Options Matrix
- B. PER – including any information obtained to prepare this document.
- C. GMP
- D. Initial Schedule

By and in consideration of this Contract and the obligations imposed by it, Client and DB Team agree to the attached "Terms and Conditions" and in documents incorporated by reference in this Contract (together, "Contract Documents").

Authorized (Town of Edisto Beach):

Accepted (Wharton-Smith, Inc.):

Signature: 

Signature: 

Print name: Iris Hill

Print name: Ronald F. Davoli

Title: Town Administrator

Title: President / CEO

TERMS AND CONDITIONS
To
SCOPING/OPTIONS MATRIX AGREEMENT
PHASE 1 SERVICES

1. Method of Payment: Monthly. Because this is a Lump Sum contract, it will be invoiced on a percent-complete basis. Design Builder (DB) will invoice Client based on the percentage of all Services rendered during the previous month. Unpaid charges will draw interest at the lesser of 1.5% per month or the highest rate allowed by law, commencing 30 days after date of invoice. Client shall notify DB in writing of any disputed amount within 15 days after date of invoice; otherwise, all invoice charges are agreed to be acceptable. Should it be necessary for DB to initiate collection procedures for unpaid charges, the cost of such procedures will be added to the amount due DB from Client.

2. Permit Assistance: Client shall reasonably assist DB in obtaining all necessary governmental permits and/or approvals required for the performance of the Services. DB's obligations hereunder are specifically subject to the issuance of all such permits and/or approvals.

3. Standard of Care: Services will be performed for the exclusive benefit of Client. Services shall be conducted by DB consistent with that level of care and skill ordinarily exercised by the engineering and consulting professions in the same locale acting under similar circumstances and conditions. Except as set forth herein, DB makes no other representation, guarantee, or warranty, express or implied, in fact or by law, whether of merchantability, fitness for any particular purpose, or otherwise concerning any of the services which may be furnished by DB to Client. Nothing in this Contract is intended to create, nor shall it be construed to create, a fiduciary duty owed by either party to the other party.

4. Deliverables: All deliverables, including, but not limited to, any and all reports, drawings, plans, designs, and specifications prepared by DB hereunder shall become Client's property upon final payment for DB's Services. DB shall retain copies of all deliverables. Deliverables may not be used or reused by Client, its employees, agents, or subcontractors on any extension of the project or on any other project without prior written consent of DB, which consent will not be unreasonably withheld.

5. Limitation on the Scope of Services: Client acknowledges that DB has no role in generating, treating, storing, or disposing of hazardous or toxic substances, pollutants and contaminants, or other waste materials ("Waste Materials") which may be present at the Site. Any Waste Materials connected with the Services shall at no time become the property of DB. Nothing herein shall require DB to assume the status of generator or a storage, treatment, or disposal facility as those terms are defined by the Resource Conservation and Recovery Act, or any state statute or regulation governing the generation, treatment, storage, or disposal of hazardous or solid waste. DB cannot accept ownership, title, or responsibility for Client's waste or responsibility for the disposal of any Waste Materials. Client agrees that it shall evaluate and select the proper site for treatment or disposal of its Waste Materials and shall be solely responsible therefor. Arrangements made by DB for treatment, storage, transport, or disposal of any Waste Materials shall be construed as being made solely for Client's benefit and Client shall indemnify and hold harmless DB against all claims, damages, losses, liability, and expenses, including attorney's fees, which arise therefrom.

6. Indemnification: Each party shall indemnify and hold harmless the other party and its shareholders, directors, officers, employees, and agents against all losses or claims, and costs incidental thereto (including costs of defense, settlement, and reasonable attorney's fees) which any or all of them may incur, resulting from bodily injuries (or death) to any person, damage (including loss of use) to any property, or contamination of or adverse effects on the environment, arising out of or which are in any way connected with (i) any release or threatened release of Waste Materials or any other activity relating to Waste Materials; (ii) the intentional or negligent acts or omissions of the indemnifying party and its employees, agents, and subcontractors, or (iii) the party's breach of this Contract.

7. Required Disclosures by Client: Client shall provide DB all information which is known or readily accessible to Client which may be reasonable and/or necessary for completion of the Services by DB.

8. Force Majeure: Neither party shall be responsible for damages or delays caused by Force Majeure or other events beyond the control of the other party and which could not reasonably have been anticipated or prevented. For purposes of this Contract, Force Majeure includes, but is not limited to, adverse weather conditions, floods, epidemics, war, riot, strikes, lockouts and other industrial disturbances; unknown site conditions, accidents, sabotage, fire, loss of or failure to obtain permits, unavailability of labor, materials, fuel or services; court orders; acts of God; acts, orders, laws or regulations of the Government of the United States or the several states, or any foreign country, or any governmental agency. Should Force Majeure occur, the parties shall mutually agree on the terms and conditions upon which the Services may be continued.

9. Termination: This Contract may be terminated by either party upon 30 days written notice to the other party. Irrespective of which party terminates or the cause therefor, Client shall, within 30 days of termination, compensate DB for costs incurred up to the date of termination, plus any reasonable and unavoidable costs incurred due to such termination (such as cancelling orders for equipment, materials, or services). Upon termination, Client shall be entitled to possession and utilization of all deliverables and work completed by DB up to the date of termination.

10. Site Access: Client grants a right of entry to the Site to DB, its employees, agents, and subcontractors to perform the Services. If Client does not own the Site, Client warrants that it has the permission of the owner of the Site to grant this right of entry to DB. If, in order to perform the Services, DB damages or alters a site owned by a third party, DB agrees to pay the cost of restoring the Site to its condition prior to the performance of the Services.

11. Geophysical Services: DB does not guarantee any specific results from sampling or analytical activity. DB shall not be liable for loss and/or damage to the surface or subsurface due to subsurface sampling. DB shall not be liable for damage to wells caused by subsurface trespass or from operational services. DB is not liable for the accuracy of copies of the original logs or for recommendations based on such copies. DB will provide professional interpretation and recommendations if requested in the Scope of Work. DB shall not be responsible for obtaining permits or permission to log a well on a Site owned by a third party.

12. Certifications: DB shall not be required to sign any documents, no matter by whom requested, that would result in the DB having to certify, guarantee, or warrant the existence of conditions whose existence DB cannot ascertain. Client agrees not to make resolution of any dispute with DB or payment of any amount due to DB in any way contingent upon DB's signing any such documents.

13. Entire Contract: This Contract constitutes the entire agreement between the parties and supersedes any and all prior written or oral agreements existing between the parties. This Contract may be amended only by written instrument signed by each party.

14. Precedence: This Contract shall take precedence over any inconsistent or contradictory provisions in any other Contract Documents or any Client-issued purchase order, requisition, notice to proceed, or like document regarding the Project, Services or payment, with the exception of the requirements set forth in the Request for Qualifications.

15. Survival: All obligations arising prior to the termination of this Contract and all provisions of this Contract allocating responsibility or liability between Client and DB shall survive the completion of Services hereunder and the termination of this Contract.

16. Governing Law; Jurisdiction; Venue: This contract shall be governed, construed and interpreted by, through and under the Laws of the State of South Carolina. The parties agree that venue for any dispute arising from this contract or the performance of the terms thereof shall be in the Court of Common Pleas for Colleton County, South Carolina, regardless of amount in controversy, and further, the parties subject themselves to the personal and subject matter jurisdiction of said court, regardless of amount in controversy.

17. Insurance: DB shall maintain, at all times, the following minimum levels of insurance and shall, without in any way altering its liability, obtain, pay for and maintain insurance for the coverages and amounts of coverage not less than those set forth below and provide the Client with a Certificate of Insurance and an opportunity to inspect a certified copy of each policy applicable to this contract to evidence such coverage before any work commences. Such certificates will provide that there shall be no termination, non-renewal, modification or expiration of such coverage without thirty (30) days prior written notice to the Client. The Client shall be named as an additional insured on all DB policies related to the project, excluding worker's compensation. The policies shall contain a waiver of subrogation in favor of the Town of Edisto Beach. All insurance coverage shall be written with an insurer having an AM. Best Rating of at least the AA+ category and size category of VIII. DB's self-insured retention or deductible per line of coverage shall not exceed \$25,000.00 without the permission of the Client. Any failure by DB to comply with the provisions of this section, the Client may, at its option, on notice to DB, suspend the work for cause until there is full compliance.

All DB's sub-contractors shall be required to include Client and DB as additional insured on their General Liability Insurance policies. In the event that sub-Contractors used by DB do not have insurance, or do not meet the insurance limits, DB shall indemnify and hold harmless the Client for any claim in excess of the sub-Contractors' insurance coverage.

DB shall not commence work under this contract until all insurance required as stated herein has been obtained and such insurance has been approved by the Client.

Coverage Required:

- Statutory workers compensation insurance (as required by South Carolina state law)
- Employer's liability insurance: \$1 million
- Commercial general liability insurance: \$1 million per occurrence; \$4 million annual aggregate

- Commercial automobile liability insurance: \$ 2million combined single limit for bodily injury and property damage each accident
- Excess liability insurance above the employer's, general and automobile insurance: \$20 million
- Professional liability (errors and omissions): \$5 million each occurrence and in the aggregate
- Builders Risk - current budget estimate
- Fire, extended coverage, vandalism and malicious mischief insurance equal to the actual value of the insured property during construction
- Pollution Liability: \$5 million per loss and \$10 million aggregate

18. **Attorneys' fees and costs:** DB agrees to reimburse the TOWN OF EDISTO BEACH for actual costs and attorneys fees incurred by the Town in enforcing its rights against DB under this contract if Town is successful in obtaining a judgment against DB.

Client Initials: Jh

DB Initials: LED

Town of Edisto Beach
Water System Improvements
Progressive Design-Build Services
Phase 1
Index of Attachments

- Attachment 1 Hydraulic Model CD of water distribution system
- Attachment 2 Digital Mapping CD of existing water system infrastructure
- Attachment 3 Existing well pumping records and laboratory analysis on CD
- Attachment 4 Legal descriptions of properties associated with the project
- Attachment 5 Previous geotechnical studies
- Attachment 6 Record drawings (Well 6, Bay Point Well, Elevated Storage Tank)
 - Attachment 6A Well #6
 - Attachment 6B Bay Point Well
 - Attachment 6C Elevated Water Storage Tank
- Attachment 7 Customer survey of in-house reverse osmosis systems
- Attachment 8 DHEC communications pertaining to potential concentrate disposal options

	DESCRIPTION	QTY	UNIT	U/P	AMOUNT	TOTALS	Description	Responsible Party
<i>line Item</i>	<i>Santee Wells Upgrade Well 6 and 2 New Wells</i>							
1	RTU - Controls	2	EA	\$2,000	\$4,000	\$4,000	Estimate for Misc. RTU installation needs at well 6 & 2	WS Estimate
2	Electrical	2	EA	\$5,000	\$10,000	\$10,000	Estimate for misc electrical trim at well 6 & 2	WS Estimate
4	Generator - ATS	2	EA	\$8,500	\$17,000	\$17,000	Generator & ATS Set wire at Wells 6 & 2. Generator equipment estimated in Electrical package.	WS Estimate
4	Pipe and Valves	2	EA	\$15,000	\$30,000	\$30,000	Estimate for pipe and valves at Well 6 & 2	WS Estimate
5	Drill and Test Well	2	EA	\$400,000	\$800,000	\$800,000	Drill and test the two new Wells at 6 & 2. Well development included. General site work included in this number	WS/Layne Estimate
6	Well Pump	2	EA	\$35,000	\$70,000	\$70,000	Well pumps installed for Well 6 & 2	WS Estimate
7	Concrete Pump Base	2	EA	\$2,000	\$4,000	\$4,000	Well pump 6 & 2 base	WS Estimate
8	Upgrade Well 6	1	LS	\$25,000	\$25,000	\$25,000	Estimate to improve Well 6 mechanical if required. The requirements need developed during design.	WS Estimate
					Subtotal	\$960,000		
	RO Equipment							
9	RO Equipment	1	LS	\$1,440,000	\$1,440,000	\$1,440,000	RO Equipment estimate for preliminary water quality and volume requirements in RFP. This equipment estimate includes pipe, valves and local control for 3 RO skids.	Harn Estimate
					Subtotal	\$1,440,000		
	Building With Clearwell							
10	Excavation - Backfill	450	CY	\$85	\$38,250	\$38,250	Estimate based on an assumption for Town Hall site with the clearwell below grade 2 feet.	WS Estimate
11	Dewatering	1	LS	\$25,000	\$25,000	\$25,000	Dewatering estimate assuming pouring the clearwell at Town Hall site below grade.	WS Estimate
12	Piling	1	LS	\$141,750	\$141,750	\$141,750	Piling estimate for a 75ft x50ft foundation given the Fault Zone requirements.	WS Estimate
13	Concrete	530	CY	\$900	\$477,000	\$477,000	Concrete estimate for the clearwell, columns and elevated building slab.	WS Estimate
14	Building - Masonry - Doors - Roofing	1	LS	\$450,000	\$450,000	\$450,000	Estimate for masonry walls, interior walls, finishes interior, doors, louvers, windows and roofing. Exterior stucco finish is included. We have figured roughly 120\$ per square foot.	WS Estimate
15	Metal stairs - Landings - Handrail	2	EA	\$25,000	\$50,000	\$50,000	Exterior access estimate based on two points of entry and material handling to the elevated floor.	WS Estimate
16	Painting - Coatings - Finishes	1	LS	\$90,000	\$90,000	\$90,000	Coating systems for the clearwell and exterior finishes assumed will be needed.	WS Estimate
17	High Service Pumps	3	EA	\$50,000	\$150,000	\$150,000	Estimate for 3 vertical turbine high service pumps in the clearwell.	WS Estimate
18	Pipe and Valves	1	LS	\$30,000	\$30,000	\$30,000	Estimate for miscellaneous pipe not included with the RO Equipment for influent and distribution tie-ins to the building site.	WS Estimate

19	Clear well structural- slab, walls, foundation excavation	350	CY	\$600	\$210,000	\$210,000	Estimate of the foundation hand work, clearwell concrete, walls and supports for the building above. Based on an assumed footprint.	WS Estimate
					Subtotal	\$1,662,000		
	Infrastructure Piping Changes							
20	4" pipe	1700	LF	\$35	\$59,500	\$59,500	All of the influent and distribution systems piping in this infrastructure section pipe is based on existing system information and proposed routing to be determined during design for best locations. The hydraulic modeling supported some of the assumptions.	WS Estimate
21	6" pipe	1000	LF	\$34	\$34,000	\$34,000		WS Estimate
22	10" pipe	5800	LF	\$45	\$261,000	\$261,000		WS Estimate
23	12" pipe	1500	LF	\$52	\$78,000	\$78,000		WS Estimate
24	Connect at Existing Wells 1, 2, 3, 6	4	EA	\$3,050	\$12,200	\$12,200		WS Estimate
25	6" pipe	9500	LF	\$35	\$332,500	\$332,500		WS Estimate
26	Directional Drill Into River	600	LF	\$718	\$430,800	\$430,800	Estimated location and cost concentrate discharge at the time of this budget estimating.	WS Estimate
27	Asphalt Demo	2500	SY	\$8	\$20,000	\$20,000	Estimate for a quantity of repair work per the estimated lineal footage as a percent. This will be evaluated during design phases to minimize this work.	WS Estimate
28	Asphalt Repaving	2800	SY	\$65	\$182,000	\$182,000		WS Estimate
					Subtotal	\$1,410,000		
	GTS Upgrades							
29	State Park Well Field -Mechanical Modifications	1	LS	\$48,000	\$48,000	\$48,000	General estimate of repair work to existing pump system and piping assumptions for filling the tank from the system rather than the wells.	WS Estimate
					Subtotal	\$48,000		
	Electrical and SCADA							
30	Electrical and SCADA	1	LS	\$600,000	\$600,000	\$600,000	Estimate of approximately 350K per MGD Plant. This number makes many assumptions that will be worked through in design in terms of scope of SCADA and Generator needs.	WS Estimate
					Subtotal	\$600,000		
	Sitework							
31	Sitework	1	LS	\$60,000	\$60,000	\$60,000	Lump sum estimate based on assumed footprint of the building on a Town Hall site. This site is still undetermined for this item.	WS Estimate
					Subtotal	\$60,000		
	Contingencies							
32	For Unforeseen Items Within This Scope	1	LS	\$300,000	\$300,000	\$300,000		WS/Town of Edisto Beach
					Subtotal	\$300,000		
	Design							
33	Engineering Fees for Phase 2 60%-100% for Construction	1	LS	\$370,000	\$370,000	\$370,000	Design Fees and services to develop 100% for construction drawings, permitting and	Thomas & Hutton
34	Phase 2 60% Design Fees	1	LS	\$297,000	\$297,000	\$297,000		
35	Phase 2 Surveying and Property Coordination	1	LS	\$53,000	\$53,000	\$53,000		
					Subtotal	\$720,000		
	TOTAL COST					\$7,200,000		