

# Agenda

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**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

May 31, 2011, 9:00 a.m.

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**Our Mission** is to protect public health and enhance the environment of our service community by providing clean water services of exceptional quality and value.

**Our Vision** is to become, by 2012, an organization worthy of a SC Governor's Quality Award achieved through teamwork, customer focus, and performance excellence.

**Our Core Values** Teamwork • Ethical Behavior & Integrity • Accountability • Customer Service Focus • Open & Honest Communication • Innovation

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**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

**Mr. Thomas B. Pritchard, Chairman**

May 31, 2011

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- I. Call to Order**
  
- II. Compliance With Public Notice – Mr. Pritchard**
  
- III. Invocation – Mr. Hill**
  
- IV. Pledge of Allegiance – All present**
  
- V. Adjourn to Committee Meetings, followed by Commissioners Meeting**

**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

**Public Contract and Finance Committee**  
Mr. Thomas B. Pritchard, Committee Chairman

May 31, 2011

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**I. Call to Order**

**II. Approval of Minutes of Committee Meeting of April 26, 2011**

**III. Review of 2010 External Financial Audit Report – Mr. Ropp**

Mr. Ropp will introduce Leigh Schaffer and Tom McNeish with Elliott-Davis LLC who will briefly review the 2010 Financial Audit Report with the Commissioners.

*(Motion Requested to Receive as Information)*

**IV. Update on Isle of Palms' Request to Review Purchase Capacity Rates and Capital Charges – Mr. Ropp / Mr. Hill – Exhibit A**

Mr. Hill and Mr. Ropp will discuss the above with the Commissioners. *(Information Only)*

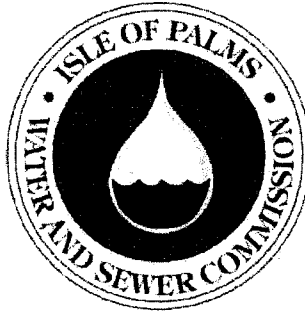
**V. Update on James Island Public Service District (JIPSD) Rates - Mr. Hill / Mr. Ropp**

Mr. Hill and Mr. Ropp will present the updated JIPSD rates to the Commissioners and discuss the effect to Charleston Water System's purchase treatment budget, etc. *(Information Only)*

**VI. Adjournment**

*Commissioners*

**JOHN J. FERRELL, JR., P.E.**  
**CURTIS R. HELFRICH, P.E.**  
**JAY D. LEIGH**  
**DANA W. LOVE, JR., P.E.**  
**NICHOLAS J. STROUD**



*General Manager*

**GEORGE J. GROSS, P.E.**

*Special Projects Administrator*

**WILLIAM P. JENKINS**

*Comptroller*

**LYNNE T. STONESIFER, CPA**

April 28, 2011

Kin Hill, PE  
CEO  
Charleston Water System  
103 St. Philip Street  
Charleston, South Carolina 29402

RECEIVED  
APR 29 2011

P.Y. ....

RE: Review of Charleston Wholesale Water Rates

Dear Mr. Hill:

This letter is being sent as a follow-up to our conversation of April 26, 2011 for the referenced subject. The Isle of Palms Water & Sewer Commission has elected to hire an independent consultant to review Charleston Water System wholesale water rates. The Commission has no reason to think there any problems with the current ratemaking practices. The impetus for this decision is due diligence and the Commission's fiduciary responsibility to their customers.

We appreciate your willingness to cooperate with the Commission in this endeavor and we will do our best to impose on your staff's time as little as possible. We will provide you with a copy of the consultant's findings as soon as possible. We expect the consultant to complete the rate review within 45 to 60 calendar days of receiving the necessary documentation.

If you have any questions or need any additional information, please contact our office.

Sincerely,

George J. Gross, PE  
General Manager

**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

**Administrative, Personnel, and Public Relations Committee  
Mr. William E. Koopman, Jr., Committee Chairman  
May 31, 2011**

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**I. Call to Order**

**II. Approval of Minutes of Committee Meeting of April 26, 2011**

**III. Bill Inserts - Ms. Craft – Exhibit B**

**July 2011**

- SC AWWA - Water for People
- Goodwill Industries

*(Motion Requested)*

**IV. Approval of Water Rules and Regulations Manual – Mr. Hill**

Mr. Hill will request approval of the Water Rules and Regulations Manual as recently reviewed, revised, and updated. *(Motion Requested)*

**V. Approval of Wastewater Use and Rate Resolution Manual – Mr. Hill**

Mr. Hill will request approval of the Wastewater Use and Rate Resolution Manual as recently reviewed, revised, and updated. *(Motion Requested)*

**VI. Update on Market Street Water Main Break – Mr. Fairey / Mr. Hill / Ms. Craft**

Mr. Fairey, Mr. Hill, and Ms. Craft will provide an update on the recent water main break on Market Street. *(Information Only)*

**VII. Adjournment**



*Clean Water for Life*

"EXHIBIT B"

**INTEROFFICE COMMUNICATION**

May 18, 2011

To: Commissioners and Officers  
From: Jenny Craft, Public Relations Manager  
Re: Bill Inserts

In accordance with Charleston Water System's approval process for bill inserts, the following bill inserts are submitted for your approval:

July 2011

- SC AWWA - Water for People
- Goodwill Industries

Should you have any questions or concerns, please feel free to contact me prior to or during our Board meeting.

Attachments



.....a world where all people have access to safe drinking water and adequate sanitation; a world where no one suffers or dies from a water or sanitation-related disease. **What a beautiful dream.**

The SC AWWA Water For People committee is working to make the dream a reality.

**Did you know** that around the world nearly one billion people do not have access to safe drinking water and **2.6 billion** are without adequate sanitation facilities? **Every day, nearly 6,000 people** die from water-related illnesses. Approximately **4,000 of these are CHILDREN**. That is every day...

For more information visit [www.scawwa.org](http://www.scawwa.org).

Click on South Carolina Section AWWA (in the right quadrant). Then click on Water For People.

(side 1 above)

(side 2 below)



water for people  
SOUTH CAROLINA

Water for People is an organization that helps people in developing countries improve the quality of their life by supporting the development of locally sustainable drinking water resources and sanitation facilities. The SC Section of AWWA is helping to raise funds for Water for People. You can help too.

Your tax deductible contribution may be made payable to:

SC Section of AWWA designated for Water For People, 130 Gibson Road, Lexington, SC 29072.

**THANK YOU FOR YOUR SUPPORT !**

***Water For People is a committee of SC American Water Works Association  
a registered 501 (c) (3) nonprofit organization***

## **American Water Works Association**

### **Water for People**

The South Carolina Section of the American Water Works Association is dedicated to providing resources for knowledge, information, and advocacy to improve the quality and supply of water in South Carolina. SCAWWA advances public health, safety and welfare by uniting the efforts of the entire water community. Through our collective strength we can become better stewards of water for the greatest good of the people of South Carolina.

The SC Water For People Committee is not an independent 501(c)3, but one of the many Committees of the SC AWWA. Because of this SC WFP falls under the SC AWWA 501(c)3 umbrella. Funds raised by the committee are sent to the Water For People headquarters in Denver, Colorado.

Post-It Fax Note	7871	Date	11/11/88
To	MURMAN	From	MARK GRACE
Co./Dept		Ci.	
Phone 1		Phone 2	
Fax #	803 771-7442	Fax #	

US Treasury Department

Internal Revenue Service

WASHINGTON, D.C. 20548  
 Date: MAY 8 1988 T:MS:EO:R:2-RWB



The American Water Works  
 Association  
 2 Park Avenue  
 New York, New York 10016

Gentlemen:

This refers to the information submitted for use in determining the status of your sections for Federal income tax purposes.

In our ruling dated November 23, 1940, it was held that you are exempt from Federal income tax under the provisions of section 101(6) of the 1939 Code, which corresponds to section 501(c)(3) of the 1954 Code. This ruling was applicable only to you and did not include any of your sections.

Based on the information supplied, we rule that your sections named on the group exemption roster you submitted are exempt from Federal income tax under section 501(c)(3) of the Internal Revenue Code, as it is shown that your listed sections are organized and operated exclusively for educational and scientific purposes.

The exempt sections are not required to file a Form 1120 income tax return. However, if they are subject to the tax on unrelated business income under section 511 of the Code, they must file Form 990-T.

The exempt sections are required to file an annual information return, Form 990-A. If you do not include the sections in a group return each must file this return by the 15th day of the fifth month after its annual accounting period closes.

Donors may deduct contributions to your exempt sections as provided by section 170 of the Code. Bequests, legacies, devises, transfers, or gifts to or for the use of the exempt sections are deductible for Federal estate and gift tax purposes under section 2055, 2106, and 2522 of the Code.

The American Water Works Association - 3 -

You should advise each of your exempt sections of the exemption and the pertinent provisions of this ruling.

This ruling is not applicable to any of your sections organized and operated in a foreign country.

The District Directors concerned are being notified of this action.

Very truly yours

*John H. [Signature]*

Chief, Rulings Section  
Exempt Organizations

Enclosures:  
Rev. Proc. 68-13 for your  
information  
Copy of this letter

6/10/68



**Why wait 'til tax-free weekend?  
We're tax-free EVERY DAY!**

**\$5 OFF**

**Any \$25 Purchase**

**August 5, 6 and 7, 2011**

Bring this insert to the  
any Lowcountry Tri-County  
Goodwill Store to receive \$5 off your  
purchase of \$25 or more.

Offer available August 5, 6 and 7, 2011 and is good at the  
Goodwill stores in Charleston, Dorchester and Berkeley  
Counties only. Void if duplicated.  
Not valid with any other offer.



**goodwill**<sup>®</sup>

**Back To School  
Savings!**



**goodwill**

# Goodwill Industries of Lower South Carolina

Goodwill strives to help people achieve their full potential through the dignity and power of work! Work effects our self-esteem and allows us to become successful contributing members of our community!

## Shop

Unlike other thrift stores, Goodwill is bright and clean and offers gently used and new clothing, household goods, furniture and more! Of every dollar you spend shopping in Goodwill stores, over 90 cents goes to support job training and placement programs for people with disabilities and other barriers to employment. Shopping at Goodwill means great bargains for you, less reusable goods in our landfills and jobs for people in your community!

## Work

Goodwill is the largest employer of people with disabilities in South Carolina. In 2009, Goodwill placed over 1,000 people into new jobs and served over 19,000 people in our community through training programs and employment related services. When you support Goodwill, you support Goodwill's mission of helping people in your community find secure employment!

## Donate

Each time you donate gently used clothing, household items, computers or vehicles to Goodwill, you not only make more space in your closet and help the environment, but you also give someone an opportunity to work and to succeed. All of your donations stay local and help support Goodwill's mission of putting people to work. And remember, you are being green and your donations are tax deductible!

## Volunteer

When you volunteer with Goodwill, you are volunteering for your community! You can serve individuals with disabilities and barriers to employment by volunteering in one of our retail stores or at a special event. Your donation of time and support is essential for Goodwill to achieve its mission and help build a better community.

## Goodwill Community Service Center

2150 Eagle Drive, Building 100  
North Charleston, SC 29406  
(843) 566-0072

For a complete listing of Goodwill Retail Stores and Job Link Centers, visit

[www.PalmettoGoodwill.org](http://www.PalmettoGoodwill.org)



**Internal Revenue Service**

**Date:** February 3, 2005

GOODWILL INDUSTRIES OF LOWER S C INC  
5640 RIVERS AVE  
N CHARLESTON SC 29406-6027

Department of the Treasury  
P. O. Box 2508  
Cincinnati, OH 45201

**Person to Contact:**  
Cheryl Skaggs 31-04010  
Correspondence Specialist/Screeners  
**Toll Free Telephone Number:**  
8:30 a.m. to 5:30 p.m. ET  
877-829-5500  
**Fax Number:**  
513-263-3756  
**Federal Identification Number:**  
57-0632511

Dear Sir or Madam:

This is in response to a request of February 1, 2005, from Randolph Cooper regarding your organization's tax-exempt status.

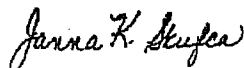
In June 1977 we issued a determination letter that recognized your organization as exempt from federal income tax. Our records indicate that your organization is currently exempt under section 501(c)(3) of the Internal Revenue Code.

Our records indicate that your organization is also classified as a public charity under sections 509(a)(1) and 170(b)(1)(A)(vi) of the Internal Revenue Code.

Our records indicate that contributions to your organization are deductible under section 170 of the Code, and that you are qualified to receive tax deductible bequests, devises, transfers or gifts under section 2055, 2106 or 2522 of the Internal Revenue Code.

If you have any questions, please call us at the telephone number shown in the heading of this letter.

Sincerely,



Janna K. Skufca, Director, TE/GE  
Customer Account Services

cc: Randolph W. Cooper  
220 Church St. Suite 102  
Mount Pleasant, SC 29464

**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

**Regulatory and Property Committee  
Mr. David E. Rivers, Committee Chairman**

May 31, 2011

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**I. Call to Order**

**II. Approval of Minutes of Committee Meeting of April 26, 2011**

**III. Red Flag Legislation for Identity Theft Prevention Annual Update - Ms. Ferguson**

Ms. Ferguson will provide an annual update regarding the effectiveness of the Identity Theft Prevention Program and compliance with the "Red Flag" regulatory requirements that became effective May 1, 2009. *(Information Only)*

**IV. Update on Travelers Boulevard Property – Mr. Cline / Mr. Hill**

*(Information Only)*

**V. Adjournment**

**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

**Mr. Thomas B. Pritchard, Chairman**

May 31, 2011

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- I. Reconvene Commissioners' Meeting after conclusion of Committee Meetings**
- II. Approval of Minutes of Meeting of April 26, 2011**
- III. Citizens Participation/Public Comment**
- IV. Monthly Customer Service Activity and Financial Report – Ms. Ferguson / Mr. Ropp**
- V. CEOs / Staff Report**
  - A. SC Quality Forum Site Visit Update – Mr. Hill
- VI. Reports of Standing Committees – Mr. Ropp**
  - A. Public Contract and Finance Committee Meeting of May 31, 2011
  - B. Administrative, Personnel and Public Relations Committee Meeting of May 31, 2011
  - C. Regulatory and Property Committee Meeting of May 31, 2011
- VII. Major Capital Project Requests - Mr. Cline**
  - A. Meggett Creek Bridge Water Main Relocation Engineering Services Contract – Exhibit C
  - B. Update on North Charleston's Oak Terrace Preserve Phase II Project – Exhibit D  
*(Request for Amended Authorization)*

**Meeting of the Commissioners of Public Works  
of the City of Charleston, South Carolina  
(Charleston Water System)**

**Mr. Thomas B. Pritchard, Chairman**

May 31, 2011

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**VIII. Citizens Participation/Public Comment**

**IX. Executive Session**

Mr. Hill may request that the Commissioners move to enter into Executive Session to discuss legal and contractual matters.

**X. Adjournment**



## INTEROFFICE COMMUNICATION

TO: Mark Cline, P.E.  
Capital Projects Officer

FROM: Russell L. Huggins, Jr., P.E. *RH*  
Director of Engineering

DATE: May 23, 2011

RE: Meggett Creek Bridge Water Main Relocation Project  
Engineering Services Contract

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The South Carolina Department of Transportation (SCDOT) recently informed Charleston Water System (CWS) of its intention to perform emergency repairs to the SC 165 Bridge over Meggett Creek. CWS owns a 12-inch ductile iron water main that is attached to the bridge and in conflict with the proposed repairs. Located along SC 165 near Coon Club Road, this water main is the primary feed for the Town of Meggett. To facilitate the bridge repair, it will be necessary to relocate the water main across Meggett Creek by horizontal direction drill (HDD) construction methods. HDD will allow CWS to permanently remove the water main from the bridge and place it in a State Budget and Control Board easement, thus protecting it from future relocations at CWS expense. Inasmuch as the SCDOT requested CWS to expedite the water main relocation, staff met with the engineering firm Hussey, Gay, Bell & DeYoung (HGBD) and requested an engineering services proposal to provide design and construction administration phase services for the Meggett Creek Bridge Water Main Relocation Project. CWS has a long and successful history working with the local municipal division of HGBD on similar HDD projects, including some projects that required expedited delivery such as the Rantowles Creek Water Main Replacement and the Fort Johnson Water Main Repair.

Attached for your review is an engineering services proposal from HGBD that outlines the necessary tasks and associated fees to provide design, bidding, and construction administration services for the Meggett Creek Bridge Water Main Relocation Project. The total cost of their services is \$57,650. Included in this fee is an allowance of \$11,000 for construction administration services, of which \$6,000 is for full-time inspection services during HDD operations. The preliminary construction cost estimate for the project is \$380,000.

Therefore, it is our recommendation that the Commissioners award an engineering services contract to HGBD in the amount of \$57,650 for design and construction administration services for the Meggett Creek Bridge Water Main Relocation Project. Funding for the project is available through the Water Major Capital Improvement Program.

## Attachments

cc: Andy Fairey, Kan Oberoi, Greg Benjock, P.E., Linda Hans, Larry Drolet, Greg Hider, P.E.



HUSSEY, GAY, BELL & DEYOUNG, INC.  
CONSULTING ENGINEERS

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May 12, 2011  
Rev. May 23, 2011

Mr. Russell Huggins, P.E.  
Charleston Water System  
P.O. Drawer B  
Charleston, SC 29402

**Re: *Meggett Creek Crossing Water Main Emergency Replacement  
Professional Survey and Engineering Design Proposal***

Dear Mr. Huggins:

Hussey, Gay, Bell & DeYoung, Inc. is pleased to submit to you our proposal to provide professional engineering and surveying services in conjunction with the proposed relocation of the 12-inch diameter water main crossing the marsh and creek at Meggett Creek. The scope of the project includes approximately 400 LF of horizontal directionally drilled (HDD) water main (12-inch minimum I.D.), 60 LF ductile iron pipe for connecting the existing main at each end of the HDD and associated appurtenances as generally depicted on the Preliminary Pipeline Alignment Exhibit (Attachment A). HGBD's preliminary opinion of probable project cost is \$380,000.00 based upon current construction costs of similar work in the Charleston area.

Following is our proposed scope of services and fee proposal:

**I. SUPPORT SERVICES**

**A. Geotechnical Investigations**

This task shall be performed by S&ME and will include two cone penetration test (CPT) soundings to a depth of approximately 50 feet below ground surface which should be to the top of the marl. Deliverable will be a written report that presents the CPT sounding logs which describe the soils and illustrate stratification changes, field data and groundwater levels.

**Lump Sum Fee: \$5,250.00**

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474 WANDO PARK BLVD., SUITE 201 (29464) • P.O. BOX 1771 • MT. PLEASANT, SOUTH CAROLINA 29465 • TELEPHONE 843.849.7500 • FACSIMILE 843.849.7502

329 Commercial Drive (31406)  
P.O. Box 14247  
Savannah, GA 31416-1247  
Telephone: 912.354.4626  
Facsimile: 912.354.6754

1219 Assembly Street (29201)  
P.O. Box 7967  
Columbia, SC 29202  
Telephone: 803.799.0444  
Facsimile: 803.799.1499

625 Green Street, N.E.  
Gainesville, GA 30501  
Telephone: 770.535.1133  
Facsimile: 770.535.1134

[www.hgbd.com](http://www.hgbd.com)

B. Critical Line Determination

This service shall be provided by Newkirk Environmental and will include delineation of the critical line for the purpose of surveying and preparing a critical line plat for submittal to the regulatory agencies.

**Lump Sum Fee: \$1,100.00**

C. Property / Easement Acquisition Services

This service is required to obtain easements on one parcel of property for construction staging and line installation. Included in these services shall be up to three meetings with the effected property owner and follow up telephone conversations as needed in an effort to acquire easement approval property acquisition. Consequently, this proposal includes negotiations as described above and property appraisals for one property owner. Negotiations and appraisals in excess of one property owner may require an amendment to our contract. Property / easement acquisition and appraisal services shall be provided on an hourly basis.

**Fee Allowance: \$3,000.00**

II. SURVEY SERVICES

The following surveying services shall be provided in accordance with CWS Minimum Survey Standards:

- A. A route survey of the approximately 400 LF water main alignment will be performed to include locating subsurface utilities at the HDD entry and exit points and critical line as delineated by Newkirk Environmental. A critical line delineation plat will be prepared and submitted to COE/OCRM for certification.
- B. Based upon our limited research to date, we anticipate two easement plats will be needed (one private and one SCBCB), consequently two plats are included in our fee. If additional plats are necessary they can be prepared for an additional fee of \$1,250.00 per plat.
- C. HGBD shall establish horizontal control based upon State Plane Coordinates and vertical control based upon National Geodetic Datum of 1929 (NGVD29). This control will be used for design and provided to the contractor for use in construction the project. The contractor's surveyor shall also use this control in preparing the as-built drawings.

**Lump Sum Fee: \$8,200.00**

### III. DESIGN SERVICES

#### A. Route Evaluation and Preliminary Engineering

HGBD shall evaluate available aerial photographs, property tax map information, CWS as-built data, visible site features and constraints and coordinate with SCDOT to determine the most feasible and economical route for the water main relocation. This conceptual alignment once approved by CWS will then become the basis for design and preparation of construction documents.

**Lump Sum Fee: \$4,000.00**

#### B. Construction Documents

HGBD shall design and prepare construction plan and profile details, specifications, bid documents and construction cost estimates for the HDD and the upland connections to the existing main on each end of the section of main to be replaced. Based upon the shortened alignment only HDPE will be considered as the carrier pipe. Since this is considered an "Emergency Project", HGBD will endeavor to complete the survey and design in 45 days and submit to the regulatory agencies for permitting. This schedule shall include two submittals to CWS, 30% and 90%, for review and comment.

**Lump Sum Fee: \$14,000.00**

### IV. PERMITTING SERVICES

This task shall include the consultations with and submittal of permit applications to the following agencies:

- A. SCDHEC/OCRM – Critical line certification and construction permit.
- B. Charleston County – MS4 Stormwater permit submittal.
- C. SCDHEC – Water construction permit by delegated review process.
- D. USACOE – Construction permit via a Nationwide Permit since we anticipate no wetlands impact due to excavation and fill.
- E. SCDOT – Temporary construction encroachment permit.
- F. SC Budget and Control Board – Permit and easement to cross waters of the State.

Based on a conversation with the USACOE this project should qualify for a Nationwide Permit 12 and an archaeological and endangered species report may not be required, consequently we have not included this task in our scope of work.

Permitting services shall be provided on an hourly basis in accord with our Schedule of Hourly Rates, Attachment "C".

**Fee Allowance: \$5,000.00**

V. **CONSTRUCTION BIDDING SERVICES**

HGBD shall prepare construction bid documents and solicit bids from the pre-qualified list of HDD contractors, conduct a pre-bid meeting, evaluate contractor bids and make a recommendation for award to CWS.

**Lump Sum Fee: \$5,500.00**

VI. **CONSTRUCTION OVERVIEW AND OBSERVATION SERVICES**

A. **Construction Overview Services**

HGBD shall provide general construction administrative services to check the Contractor's work for general compliance with the drawings and specifications and endeavor to protect CWS against defects and deficiencies in the work of the Contractor as outlined in Attachment "B". Our fee for this service is based upon an estimated 2 week construction period.

**Fee Allowance: \$5,000.00**

B. **Construction Observation Services**

HGBD shall provide a resident inspector to have the authority to act on behalf of CWS to the extent as provided in this contractual agreement as outlined in Attachment "B". This estimated fee is based upon an anticipated two (2) week construction period for the HDD portion of the project and our Schedule of Hourly Rates, Attachment "C". Overtime rates shall be 1.3 times the base hourly rates. CWS will supplement inspection services as necessary beyond the two (2) week construction period provided by HGBD.

**Fee Allowance: \$6,000.00**

Expenses for drawings and specification reproduction during the design phase of the project, travel in the Charleston area, and all other miscellaneous expenses shall be billed on a reimbursable basis. Estimated reimbursable expense costs are **\$600.00**.

We appreciate this opportunity to provide our services to CWS and look forward to another successful project. Please call me if you have any questions.

Sincerely,  
**Hussey, Gay, Bell & DeYoung, Inc.**



Alan E. Townsend, P.E.

AET/bw  
Enclosures



**ENGINEERING FEE SUMMARY**

**Megget Creek Crossing Water Main Emergency Replacement**

**May 20, 2011**

**SUPPORT SERVICES**

- Geotechnical Investigations	\$ 5,250.00	
- Critical Line Determination	\$ 1,100.00	
- Property / Easement Acquisition Services	\$ 3,000.00	
Total		\$ 9,350.00

**SURVEY SERVICES**

\$ 8,200.00

**DESIGN SERVICES**

- Route Evaluation and Preliminary Engineering	\$ 4,000.00	
- Constructon Documents	\$ 14,000.00	
Total		\$ 18,000.00

**PERMITTING SERVICES**

\$ 5,000.00

**CONSTRUCTION BIDDING SERVICES**

\$ 5,500.00

**CONSTRUCTION OVERVIEW & OBSERVATION SERVICES**

- Construction Overview Services	\$ 5,000.00	
- Construction Observation Services	\$ 6,000.00	
Total		\$ 11,000.00

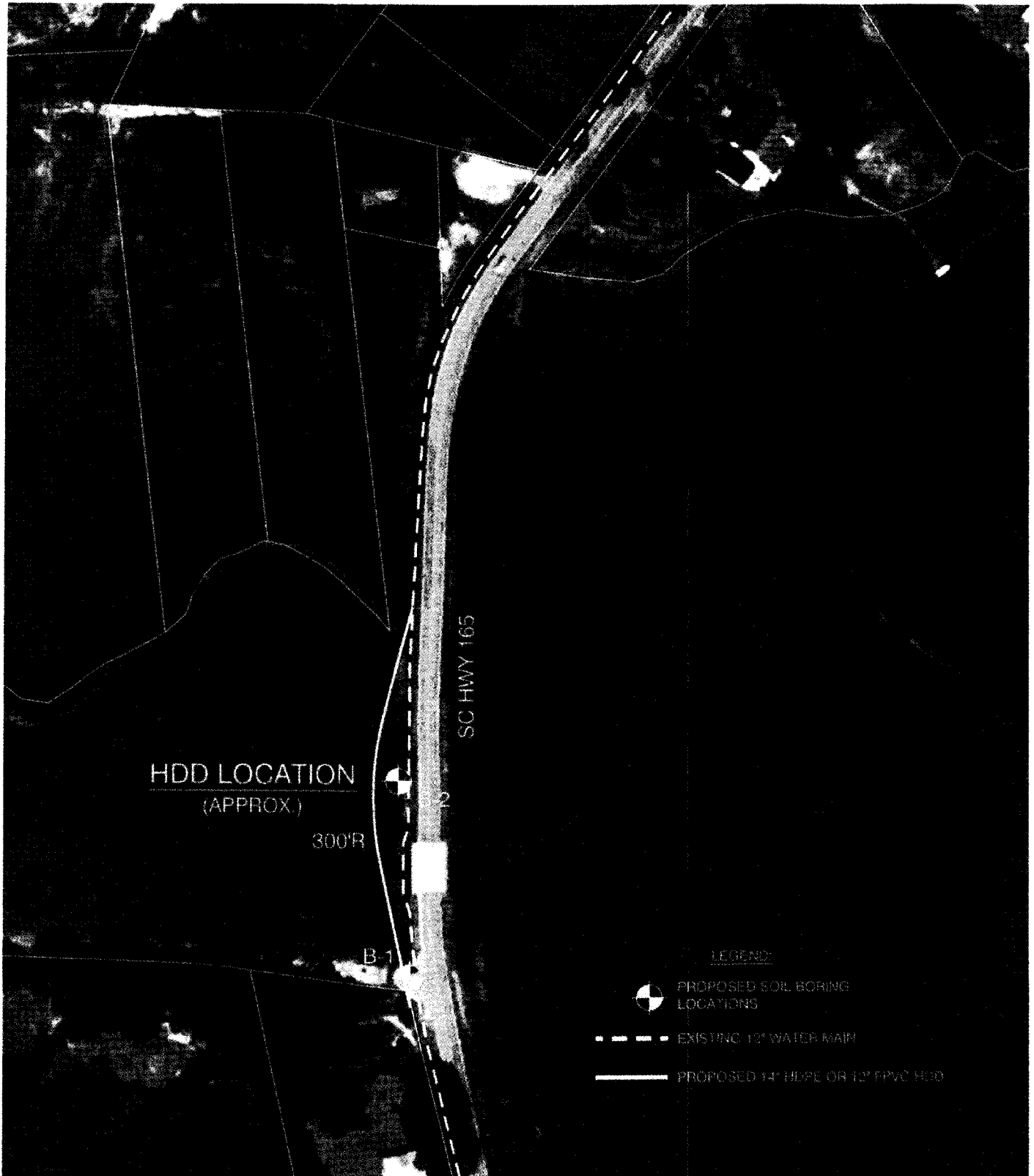
**EXPENSES**

\$ 600.00

**TOTAL ENGINEERING FEE**

\$ 57,650.00

ATTACHMENT "A"



SCALE: 1"=120'

**Exhibit**

Preliminary Pipeline Alignment  
Meggett Creek  
Water Main Replacement  
Charleston Water System  
Date: May 19, 2011



**ATTACHMENT "B"**  
**Scope of Services**

**CONSTRUCTION OVERVIEW & CONSTRUCTION OBSERVATION**

**1. Construction Overview Phase:**

When authorized, HGBD is to provide general overview of our construction to check the Contractor's work for general compliance with the drawings and specifications and endeavor to protect the CWS against defects and deficiencies in the work of the Contractor to include the following services;

- (a) Issue additional instruction upon authorization of CWS.
- (b) Review and approval of Contractor's submittals and shop drawings, samples and equipment.
- (c) Review Contractor's request for payment.
- (d) Periodic visit to the site.
- (e) Witness special performance tests.
- (f) Assist in final acceptance.
- (g) Conduct monthly progress meetings.

**2. Construction Observation:**

When authorized, a resident inspector shall be assigned to this project. He shall have authority to act on behalf of CWS to the extent provided in this contractual agreement as outlined below:

- (a) Provide daily construction observation of the project and prepare a daily written field report. HGBD's inspector must be present when the Contractor is working, day or night.
- (b) Provide black and white pictures before and during construction.
- (c) Check materials and inspect storage sites.
- (d) Check that work is within the limits in the contract documents and make recommendations to CWS if it is not.
- (e) Check that disposal of dredged, drilled and snagged materials is in accordance with the contract documents.
- (f) Check that erosion control measures are in compliance.
- (g) Check that the construction site is kept orderly during construction and cleaned up after construction.
- (h) Check compliance with permits issued.
- (i) Monitor the construction schedule.
- (j) Jointly review contract documents with the Contractor's Superintendent and CWS representatives.
- (k) Attend meetings as directed by the CWS and report findings to CWS.
- (l) Observe tests.
- (m) Maintain records and site logs in an orderly manner and provide copies to CES.

## ATTACHMENT "C"



Hussey, Gay, Bell & DeYoung, Inc.  
Consulting Engineers  
Inc. of SC

### SCHEDULE OF HOURLY RATES

January 2011

Principal Engineer	160.00
Professional Engineer (Testimony & Preparation – Legal)	185.00
Associate Engineer	135.00
Engineer IV	125.00
Engineer III	115.00
Engineer II	110.00
Engineer I	105.00
Assistant Engineer	100.00
Landscape Architect III	105.00
Landscape Architect II	95.00
Landscape Architect I	90.00
Technician III	95.00
Technician II	90.00
Technician I	80.00
Senior Project Representative	72.50
Project Representative	65.00
Assistant Construction Technician	60.00
Professional Land Surveyor III	105.00
Professional Land Surveyor II	95.00
Professional Land Surveyor I	85.00
Survey CAD Technician II	80.00
Survey CAD Technician I	70.00
Survey Field Technician III	70.00
Survey Field Technician II	50.00
Survey Field Technician I	30.00
Hydrographic Boat w/ Equipment	65.00
Clerical	55.00

## INTEROFFICE COMMUNICATION



TO: Mark Cline, P.E.  
Capital Projects Officer

FROM: Russell L. Huggins, Jr., P.E. *RH*  
Director of Engineering

DATE: May 24, 2011

RE: Oak Terrace Preserve Water Distribution System Improvements  
Amended Authorization for Reimbursement

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In 2005 the Commissioners authorized staff to enter into an agreement with the City of North Charleston (City) whereby Charleston Water System (CWS) would reimburse the City for water system improvements constructed as a part of the City's planned multi-phased revitalization project called Oak Terrace Preserve. The scope of the City's revitalization project includes replacement of streets and underground utilities improvements within the 1940s era housing development known as Liberty Homes, providing an excellent opportunity for CWS to make recommended distribution system improvements identified in the Water Distribution Master Plan. The water system improvements associated with the revitalization project includes replacement of unlined cast iron mains, which have experienced severe tuberculation resulting in poor pressure and reduced flow capacity, with new ductile iron mains ranging in size from 4 through 12 inch diameters, valves, hydrants and service connections as designed by Davis & Floyd. The anticipated budget for the multi-phased project was \$511,000 for the water system improvements based on the original project estimate provided by Davis & Floyd. To date, CWS has expenditures totaling \$323,617 for the first two phases of the project identified as Phase A and Phase I, both of which are complete. Recently, the City notified the CWS Engineering Department of its intention to construct Phase II of the revitalization project. Davis & Floyd has provided us with updated estimates for the Phase II and III distribution system improvements in the amounts of \$149,000 and \$327,000, respectively. Therefore, the revised anticipated budget for the distribution system improvements, based on expenditures to date plus the Phase II and Phase III estimates is \$799,617. The increase in the anticipated budget from \$511,000 to \$799,617 is primarily the result of the omission of approximately 400 pre-tapped water services in the original budget estimate at an average cost of \$600 per service.

As with the first two phases of the project, the City's Phase II construction plans incorporate the water distribution system improvements with the street and drainage improvements; thus, the construction contract will be through the City. Under the agreement with the City, the CWS reimbursement will be in the amount equal to the lowest responsive bid for the water distribution system improvements portion of the project. All plans, specifications, bids, contractor pay requests and any change of contract scope will be subject to CWS review and approval. Inspection services for the water distribution system improvements will be managed by CWS staff. The City estimates receiving bids for Phase II in mid-July 2011. The scheduling for Phase III has yet to be determined.

Inasmuch as the Oak Terrace Preserve Water Distribution System Improvements project budget estimate has increased more than 10 percent over that previously presented to and approved by the Commissioners, staff requests the Commissioners' consideration for amending their authorization of the total amount to be reimbursed to the City of North Charleston. Based on the new project budget estimate provided by Davis & Floyd, it is our recommendation that the Commissioners approve an amended total amount of up to \$847,217 for reimbursement to the City of North Charleston for the purpose of constructing the water distribution system improvements as a part of the City's Oak Terrace Preserve Revitalization Project. This amount reflects the sum total of actual completed costs to date for Phases A and I, plus the Phase II and III water distribution system improvements construction cost estimates inclusive of an allowance to exceed those estimates by up to 10 percent as previously authorized by the Commissioners for major capital construction services. Funding for the project is available through the Water Major Capital Improvement Program.

Attachments

cc: Andy Fairey, Kan Oberoi, Greg Benjock, P.E., Linda Hans, Larry Drolet, Lydia Owens

**Oak Terrace Preserve - Phase II**  
**Potable Water Cost Estimate**

<u>Item</u>	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1.	Water Line w/ Fittings 6-inch DIP w/poly wrap	770	LF	\$45	\$34,650
2.	Valves				
	a. 6-inch Gate	3	EA	\$1,000	\$3,000
	b. 6-inch Tapping Valve	1	EA	\$1,500	\$1,500
3.	Near Side Services w/Box	36	EA	\$1,000	\$36,000
4.	Far Side Services w/Box	35	EA	\$1,200	\$42,000
5.	Water Line Tie-in	2	LS	\$2,500	\$5,000
6.	Road Cut & Repair	3	EA	\$5,000	\$15,000
7.	Temporary Blowoff	1	EA	\$1,500	\$1,500
8.	Fire Hydrant Assembly	2	EA	\$5,000	\$10,000
				<b>TOTAL</b>	<b>\$149,000</b>

Estimated costs do not include select backfill, and are representative of work performed specifically for construction of water infrastructure and do not include contractor general conditions or other ancillary costs that may be required as part of the construction contract used in performing the work. Unit prices are reflective of probable costs when provided or performed as part of a larger project.

**Oak Terrace Preserve - Phase III**  
**Potable Water Cost Estimate**

<u>Item</u>	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1.	Water Line w/ Fittings 6-inch DIP w/poly wrap	3,400	LF	\$45	\$153,000
2.	Valves				
a.	6-inch Gate	7	EA	\$1,000	\$7,000
b.	8-inch Tapping Valve	1	EA	\$1,500	\$1,500
b.	12-inch Tapping Valve	1	EA	\$2,250	\$2,250
3.	Near Side Services w/Box	60	EA	\$400	\$24,000
4.	Far Side Services w/Box	76	EA	\$750	\$57,000
5.	Service carrier pipe under W. Dolphin	18	EA	\$2,200	\$39,600
6.	Water Line Tie-in	3	LS	\$2,500	\$7,500
7.	Road Cut & Repair	2	EA	\$5,000	\$10,000
8.	Fire Hydrant Assembly	5	EA	\$5,000	\$25,000
				<b>TOTAL</b>	<b>\$327,000</b>

Estimated costs do not include select backfill, and are representative of work performed specifically for construction of water infrastructure and do not include contractor general conditions or other ancillary costs that may be required as part of the construction contract used in performing the work. Unit prices are reflective of probable costs when provided or performed as part of a larger project.