

APPENDIX E

BIDDING AND CONTRACT DOCUMENTS

CITY OF GEORGETOWN

**KAMINSKI STREET (PROJECT NO. 1511) AND HEYWARD STREET (PROJECT NO 1509)
WATER IMPROVEMENTS**

ADDENDUM NUMBER 1

ISSUE DATE: MAY 2, 2018

Bidders on this Kaminski Street (Project No. 1511) and Heyward Street (Project No. 1509) Water Improvements project are hereby notified that this addendum shall be attached to and made a part of the above named Bidding and Contract Documents dated April 11th, 2018.

The following items add to, modify, and clarify the Bidding and Contract Documents and shall have the full force and effect of the original Documents. Bids shall conform to these items, and the cost change, if any, of these items shall be included in this Bid Price. This Addendum shall be acknowledged by the Bidder on Page 2 of the Bid Form in Section 00311.

PLEASE FIND ATTACHED:

- Pre-Bid Meeting Agenda with Discussion
- Pre-Bid Meeting Sign-in Sheet
- Storm Water Pollution Prevention Plan (SWPPP)
- Questions and Answers
- Changes in the Specifications
- Changes in the Drawings

Pre-Bid Meeting Agenda with Discussion:

Meeting Minutes:

To: Meeting Attendees

From: Walter R. Lagarenne, Jr. P.E.

Date: April 25th, 2018

Subject: Mandatory Pre-Bid Meeting

Kaminski and Heyward Street Water Main Replacements

City of Georgetown Project Nos. 1511 and 1509, respectively

Meeting Attendees:

City of Georgetown

Weston & Sampson

Orlando Arteaga

Walter Lagarenne

Will Cook

Brian Graham

Justin Mooney

I. Project Team Introductions

- a. City of Georgetown
- b. Weston & Sampson

II. Project Schedule

- a. Deadline for questions by interested participants – Friday, April 27th, 2018 at 2:00 PM
- b. Post Addendum (if applicable) on City’s website – Wednesday, May 2nd, 2018
- c. Bid Due Date – Tuesday, May 8th, 2018 no later than 2:30 PM
- d. Approval of Contract by City Council (tentative) – May 17th, 2018
- e. Notice to Proceed (tentative) – June 5th, 2018
- f. Completion Date (tentative, 100 consecutive calendar days) – September 13th, 2018

III. Project Scope

- a. Tree Protection
 - This is an important and challenging portion of this project.
 - As conflict with trees’ roots are likely, a tree expert shall be consulted (see Tree Protection Notes on sheet C-101).
 - See Question and Answer Section below in Addendum No. 1 for additional information.
- b. Sediment and Erosion Control Plan

- SWPPP is included below in Addendum No. 1.

c. Pedestrian Safety Plan and Traffic Control

d. Heyward Street

- Water service must be maintained to customers for the duration of the project.
- New service lines are to connect to existing meters and existing meter boxes.
- Where asphalt driveways are cut, they must be replaced from edge of pavement to the right-of-way.
- The pavement overlay shown at the intersection of Heyward Street and Black River Road may or may not be required. The requirement of this item will depend on the location of the existing 8" asbestos cement water main, the extent of damage to existing roadway during connection to existing water main, and any requirement determined by local SCDOT official.
- See Question and Answer Section below in Addendum No. 1 for additional information.

e. Kaminski Street

- Water service must be maintained to customers for the duration of the project.
- New service lines are to connect to existing meters installed in new meter boxes (located in the proposed locations).
- Where existing concrete driveways are disturbed, they must be replaced per SCDOT standards.
- Where sidewalks are to be replaced, ADA compliant pedestrian ramps are required.
- The SCDOT has a paving project planned for South Kaminski Street. The pavement overlays shown at each intersection may or may not be required but were included in the bid in case this water line is installed after the SCDOT completes their project. Ultimately the determination for requirement of this overlay will be provided by a local SCDOT official.
-

IV. Permits Included in Project Manual

a. SCDOT Encroachment Permit

- A traffic control plan outline is provided in this permit (located in the appendices of the project manual). It is the responsibility of the contractor to submit a detailed traffic control plan to the SCDOT before initiation of the project.

- b. DHEC Water Facilities Permit (waived)
 - See Question and Answer Section below in Addendum No. 1 for additional information.
 - c. DHEC Stormwater Construction – Coastal Permit Coverage Notification
 - d. DHEC General Coastal Zone Consistency Determination
- V. Questions from Participants during Pre-Bid meeting:
- a. Response to Bob Fisher’s question about imported fittings:
 - See Question and Answer Section below in Addendum No. 1 for additional information.
 - b. Additional questions:
 - See Question and Answer Section below in Addendum No. 1 for additional information.
- VI. Other Notes
- a. Weston & Sampson’s mailing address has changed to:

3955 Faber Place Drive, Suite 300
North Charleston, SC 29405
 - b. Email and phone numbers will remain the same.
 - c. Orlando Arteaga commented to all present to be aware of the 110% penal sum required for the Performance Bond.
 - d. There is no federal or state grant money tied to this project.

**KAMINSKI & HEYWARD STREETS
WATER IMPROVEMENTS PROJECT**

**CITY OF GEORGETOWN
SOUTH CAROLINA**

Pre-Bid Meeting Sign-In Sheet:

CITY OF GEORGETOWN	
SIGN IN SHEET	
PROJECT: Kaminski Street Proj 1511 & Heyward Street Proj 1509	DUE DATE: Wednesday, April 25, 2018 2:00 pm
FACILITATOR: Orlando Arteaga, City Engineer	PLACE: 2377 Arthuan Maybank Drive

Mandatory Pre Bid Meeting

COMPANY NAME & ADDRESS	COMPANY REPRESENTATIVE NAME & TITLE	EMAIL ADDRESS & PHONE NUMBER	SIGNATURE/ COMMENTS:
City of Georgetown	Daniella Howard, Purchasing Agent	dhoward@cogsc.com 843.545.4043	
City of Georgetown	Will Cook, Public Water Utilities Manager	wcook@cogsc.com 843.545.4500	_____
City of Georgetown	Orlando Arteaga, City Engineer	oarteaga@cogsc.com 843.545.4500	
City of Georgetown	Justin Mooney, Assistant City Engineer	jmooney@cogsc.com 843.545.4500	
Lawnmore Const.	Sherice Shelly, office manager	lunnethun0196@yahoo.com 843 385-6196	
Weston & Sampson	Brian Graham, Engineer II	grahamb@wseinc.com 843 881 9804	
" "	WALTER LACHNEWE, Project Manager	walgr@wseinc.com 843 881 9804	
LW Inc	Lindi Brooks, Pres.	lindi@lwincorporated.com 843 617-8497	
Ansow Construction P.O. Box 21974 Charleston SC 29412	Whit Stutman, VP	cws@ansowconstruction.com 843-556-4444	
RH Moore Company PO Box 830 Murrells Inlet SC 29576	Brian Stewart, P.M.	brianstewart@rhmoorecompany.com 843-360-1674	
HOLBROOK CONST PO Box 71060 MYRTLE BEACH 29572	AL DE JONG	843 841 3906 HOLBROOKCONST@GMAIL.COM	

**KAMINSKI & HEYWARD STREETS
WATER IMPROVEMENTS PROJECT**

**CITY OF GEORGETOWN
SOUTH CAROLINA**



CITY OF GEORGETOWN



SIGN IN SHEET

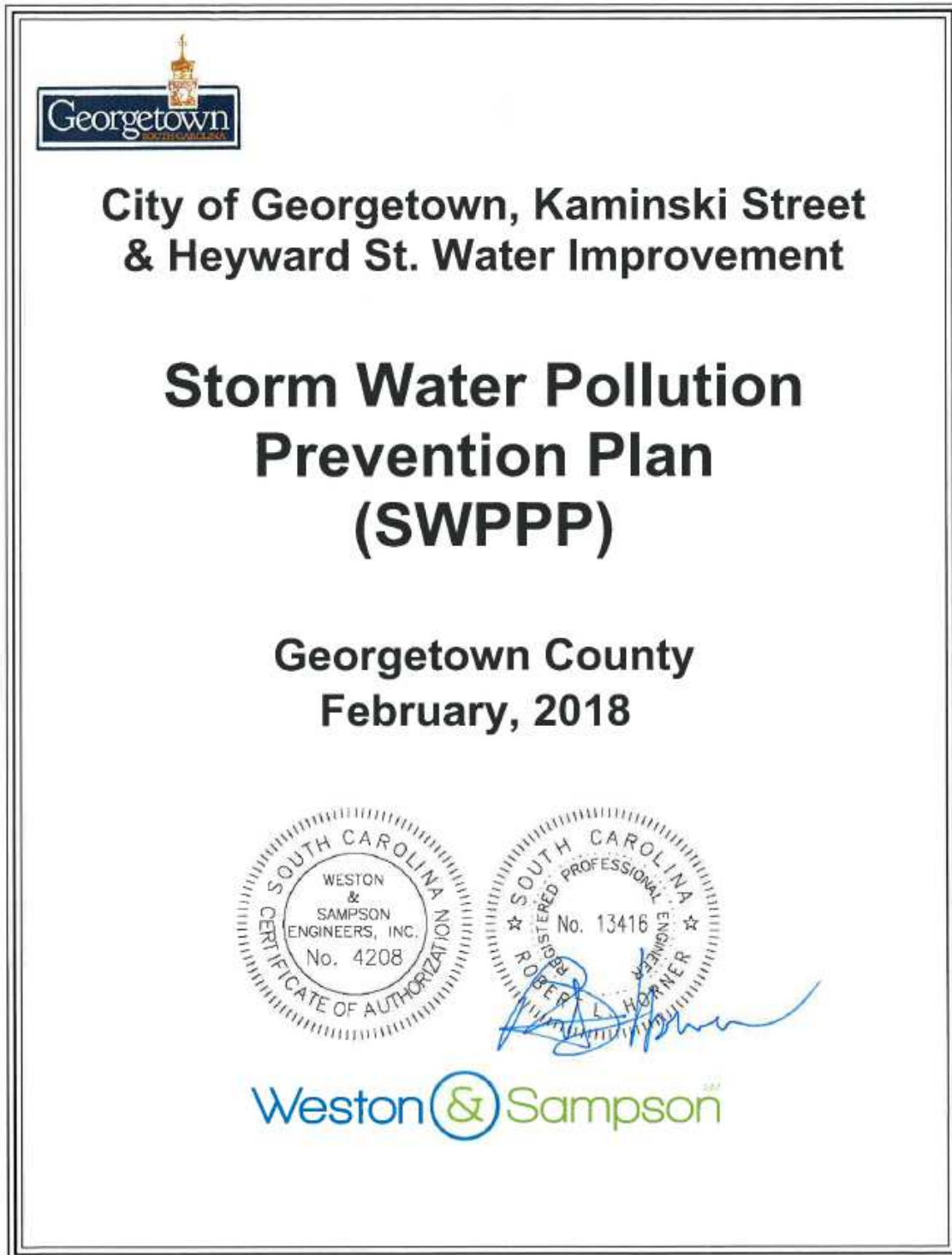
PROJECT:	Kaminski Street Proj 1511 & Heyward Street Proj 1509	DUE DATE:	Wednesday, April 25, 2018 2:00 pm
FACILITATOR:	Orlando Arteago, City Engineer	PLACE:	2377 Arthuan Maybank Drive

Mandatory Pre Bid Meeting

COMPANY NAME & ADDRESS	COMPANY REPRESENTATIVE NAME & TITLE	EMAIL ADDRESS & PHONE NUMBER	SIGNATURE/ COMMENTS:
GREENWALL CONSTRUCTION.	JAMES DEJONG FOREMAN.	JA6006@YANHO.COM 843-454-0804	<i>James DeJong</i>
C P & G Contractors 829 Suite B Front St Georgetown SC	Prabhakar Mord OWNER	CenturyPrints @ Yahoo.com 843-545-1589	<i>Prabhakar Mord</i>

Storm Water Pollution Prevention Plan (SWPPP):

This is being provided as additional information. When the contract documents are conformed, the SWPPP will be provided to the contractor as additional information that is separate from the contract documents.



**STORM WATER POLLUTION PREVENTION PLAN FOR
CITY OF GEORGETOWN – KAMINSKI ST. AND HEYWARD ST. WATER IMPROVEMENTS**

This storm water pollution prevention plan (SWPPP) is provided to address sediment and erosion control measures to be taken on the City of Georgetown project identified as the "Kaminski St. and Heyward St. Water Improvements" in Georgetown, South Carolina.

Introduction

The City of Georgetown's Water Utility Department provides the city of Georgetown with treated water for drinking and facilities for the collection and treatment of sanitary wastewater. The proposed project is for the replacement of water mains along the road right-of-way of two streets within city limits: Kaminski Street, and Heyward Street. The project will include abandoning existing water mains in place, a jack and bore underneath of Black River Road, and over 2,000 feet of new 6-inch PVC water main.

Operational Control & Contractors

The following individuals are responsible for implementation of this SWPPP.

Operational Control (Plans & Specs)	Orlando Artaega	(843) 545-4500
Day-to-Day Operational Control	Orlando Arteaga	(843) 545-4500
Co-Permittee:		
Co-Permittee:		
Contractor:		
Contractor:		

All contractors whose work could affect this SWPPP or storm water discharges must sign the Constructing Contractor Certification.

Site Description

Anticipated Project Duration: April, 2018 – October, 2018

Total area of site and anticipated area to be disturbed: The project site is located along South Kaminski Street and also along Heyward Street. All of the proposed water main will be installed in SCDOT road right-of-way. The approximate disturbed area will be 0.4 acres.

Nature of Construction Activity:

Construction activities will require approximately 2,000' of 6" PVC water main to be installed. Installation will include establishment of an installation trench, installation of the new pipe with subsequent backfilling of the trench, backfilling and reestablishment of vegetation over the disturbed area. The water main will all be installed by the "cut and cover" method except for one section to be installed under Black River Road via the "jack and bore" method. The active project area will be kept to a minimum - all trenches will be backfilled daily. There will be no wetlands disturbed during this project.

Pre-Development Conditions: The existing site conditions consist of grassed road right-of-way, including: driveways, sidewalks, and trees. As indicated in the Soil Survey of Georgetown County, South Carolina, published by the U.S. Department of Agriculture, there are two types of in-situ soil on the site. A copy of the soil survey map and soil description is included with this report, page 9 and 10. There are no existing flooding issues on site.

Post-Development Conditions: Upon completion, all sidewalk and roadways that were damaged will be replaced in compliance with ADA and SCDOT standards. No new impervious structures will be added to the site. After construction, seeding will occur to stabilize disturbed ground as soon as possible.

Intended Sequence of Major Events Which Could Disturb Soils:

1. All temporary best management practices will be installed prior to beginning any land disturbing activities.
2. Stage pipe materials. Where it is not practical to stage the pipeline prior to construction activity, the new line will be stockpiled at strategic location within the road right of way for installation as construction progresses.
3. Initiate excavation of the installation trench. Excavation activities will be performed under the supervision of the Project Manager. Trenching activities will be limited in scope to the minimal area required to safely and efficiently install the pipe. It is anticipated that the installation trench will be 1 to 2 feet in width. Excavated soil will be stockpiled adjacent to the trench in upland areas. Supplemental erosion control measures will be implemented as appropriate to ensure sediment is confined to the immediate construction area.
4. Miscellaneous construction activities will be performed at utility, road, and drainage crossings areas to facilitate installation. These activities may include open trenching, conventional boring, and directional boring. Any construction that impacts wetlands or otherwise environmentally sensitive area must be brought to the attention of the Project Manager. This communication should occur prior to the actual construction activity, but if not possible, as soon as feasible to review and investigate impacts and control measures.
5. Installation of the pipe will begin following staging and preparation of the construction site. The existing excavated trench and any additional trenching will be accomplished under the supervision of the Project Manager. Emphasis will be placed on minimizing disruption of vegetation, trees, and soil, and will be limited to the areas required to properly and safely install the new line.
6. Upon completion of installation activities, all disturbed areas will be backfilled, returned to original grade and seeded.
7. All temporary erosion and sediment control measures will be removed once final stabilization has been achieved.

Site Maps, Drainage Patterns/Slopes

Maps of the construction area are provided as an attachment to this plan. Drainage patterns and slopes will be returned to near-original grades if the right-of-way.

Receiving Waters, Aerial Extent of Wetlands

The nearest receiving water body to the site is Sampit River. The nearest water quality monitoring station downstream from the project location is MD-073, located downstream in the Sampit River.

Installation of Erosion/Sediment Controls

The attached project construction drawings denote the anticipated locations of sediment control measures to be implemented on the project. In addition, a description of interim and permanent stabilization devices, (i.e., silt fences, construction exits, mulching practices, seeding practices, diversion berms, etc.) is included as details in the construction drawings. Given the nature of construction projects, it is anticipated that actual construction activities may require some modification to proposed upland measures to ensure that all disturbed sediment is minimized and confined to the construction site. As a result, the Project Manager is accountable for ensuring that appropriate measures are implemented to prevent off-site migration of disturbed soil.

Seeding Criteria

A seeding specification is included in the project specifications. If necessary, proper application rates and methods for fertilizer and lime will be used at the construction site to insure proper nutrient management control.

Post-Construction Storm Water Management

Due to the relatively flat topography of the final grade and the seeding of the project area with grass, the storm water runoff coefficients should not be increased. Therefore, no permanent management structures are anticipated for this project.

Construction & Waste Materials

During excavation for trenches, soil will be stockpiled adjacent to the trench. This soil will be used as fill for the site. Excess soils will be removed in a timely manner to prevent offsite discharge into storm water. Silt fencing may be used if erosion of stockpiled soil is discovered. Off-site vehicle tracking of sediments and generation of dust will be minimized through the use of construction exits where necessary. Additionally, solid waste generated during the project will be disposed of in accordance with applicable State and Local solid waste regulations. No solid materials, including building materials, will be discharged to waters of South Carolina, unless authorized by a Section 404 Permit.

Although use of pesticides is not expected for this project, if determined to be necessary for construction these substances shall be used in accordance with state/federal/local regulations.

Potential hazardous substances, such as fuels, oils, waste, and chemicals shall be managed and controlled per local/state/federal requirements. Pollutants with the potential to be exposed to storm water in the work area, laydown areas, or fabrication area will be protected using Best Management Practices. These practices may include appropriate containment dikes, use of clamshell type containers, storage of hazardous materials in proper enclosed containers, and minimization of pollutants on the site. Furthermore, activities determined to be a significant potential for impact to sensitive environments on the project site and downstream of the project site, will be performed at a

safe distance from these areas. These areas include drop inlets, concentrated flow areas, and wetlands/waters of the state. These areas will be identified during the pre-construction meeting. In addition, proper spill containment and cleanup of hazardous substances and contaminants will be addressed during the pre-construction meeting and documented. Responsibilities for spill cleanup and reporting will be defined. Contingency plans as applicable will be implemented and be posted appropriately. Contractors will have spill kits available relative to the pollutants expected onsite. In addition, spill contacts (agency name/phone number) relative to the potential pollutant used on site will be available to the contractor.

Non-Storm Water Discharges

The following non-storm water discharges may occur during construction of the substation:

- Vehicle wash waters without the use of detergents
- Water used to control dust

These and any other non-storm water discharges will be minimized to the extent practical and incorporated with controls to assure that water quality is not impacted.

Maintenance/Inspections

The Project Manager or his designee will inspect areas disturbed by construction activity, areas used for storage of materials that are exposed to precipitation, evidence of pollutants entering storm water, sediment and erosion control measures for proper operation, storm water discharge locations, and areas where vehicles enter or exit the site at least once every seven calendar days until final stabilization is achieved.

The above areas will be inspected to ensure sediment is contained as intended in this plan, to ensure that tracking is minimized, and that erosion control measures are effective in preventing significant impacts to receiving waters.

Based upon these site inspections, any modifications to this plan will be completed no later than 7 calendar days after the inspection. Implementation of any changes to this plan will be conducted before the next storm event.

Reports documenting site inspections will include:

- Date of inspection
- Name, title, and qualification of inspection personnel
- Weather data since last inspection (beginning and duration of storm event and amount of rainfall)
- Weather data and discharges at time of inspection
- Location of discharges of sediment or other pollutants
- Location of BMPs needing maintenance
- Location of BMPs failing to properly operate or that are inadequate
- Location where additional BMPs are needed
- Any corrective actions required (including changes to SWPPP)
- Incidents of non-compliance with this plan or provisions of the general permit

A copy of the report form to be utilized for this project is provided as an attachment to this plan. Reports required by this permit shall be retained for at least a 3-year period.

**KAMINSKI & HEYWARD STREETS
WATER IMPROVEMENTS PROJECT**

**CITY OF GEORGETOWN
SOUTH CAROLINA**

Records Retention

The retention of certain records is important to demonstrate the proper implementation of this SWPPP and adherence to the general permit. All records will be retained for at least three years. The following records will be maintained by the Project Manager at the site throughout the duration of the construction project:

- Stormwater Pollution Prevention Plan (SWPPP)
- Notice of Intent (NOI)
- Construction Permits
- DHEC Approval Letter
- OCRM, CZC Approval Letter
- Contractor Certifications
- Inspection Reports
- Dates of major grading, when construction activities temporarily or permanently cease, dates when stabilization measures are initiate

Certification

"I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."



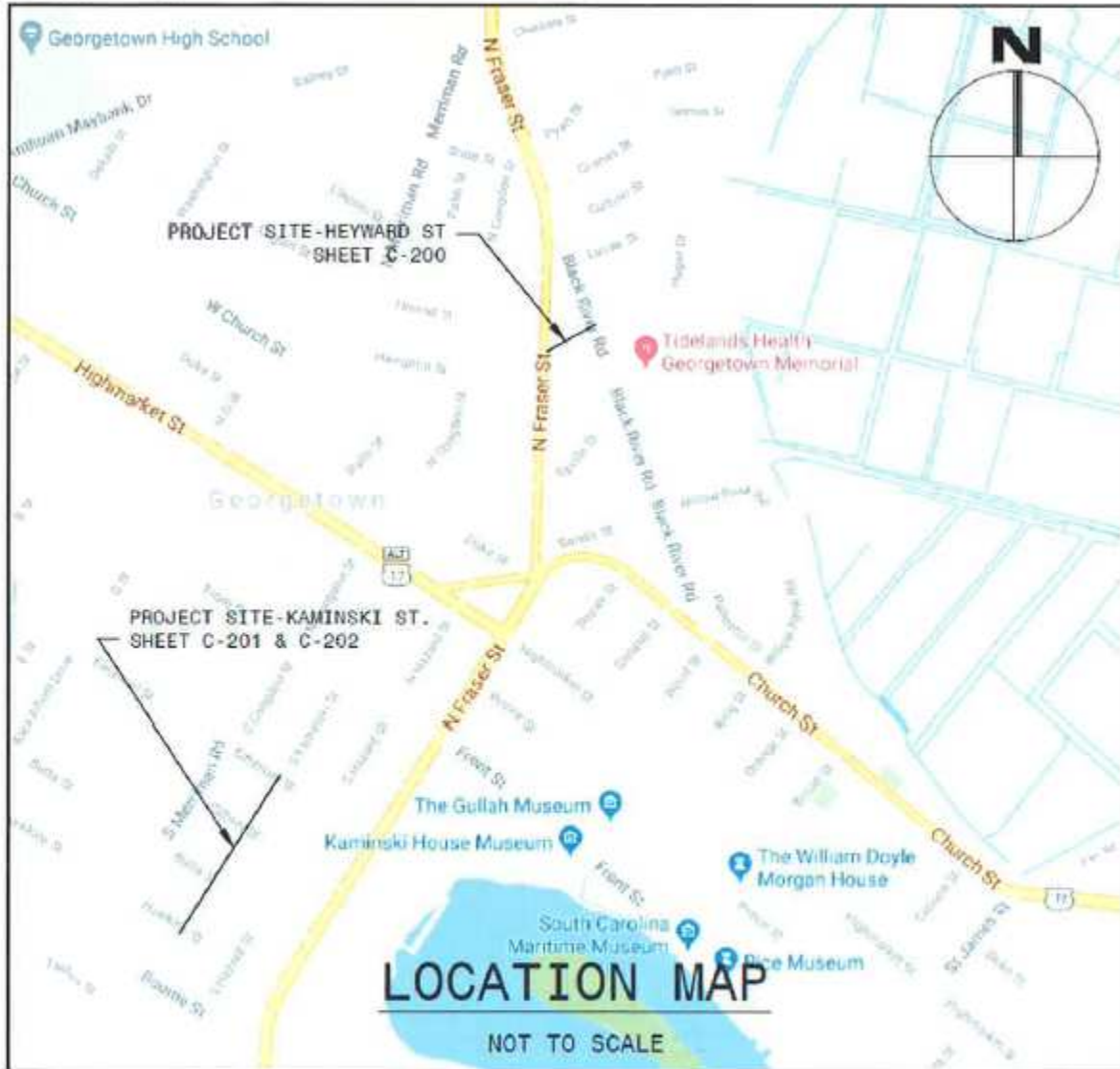
(Signature and Seal)

Name ROBERT L. HORNER
Title SC PROGRAM MGR
Date 2-22-18

**KAMINSKI & HEYWARD STREETS
WATER IMPROVEMENTS PROJECT**

**CITY OF GEORGETOWN
SOUTH CAROLINA**



Location Map



Location Map
For
Kaminski St. and Heyward St. Water Improvements
02/21/2018
For
City of Georgetown
By
Weston & Sampson Engineers, Inc.

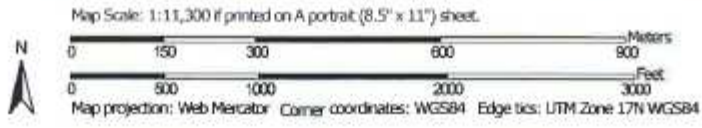
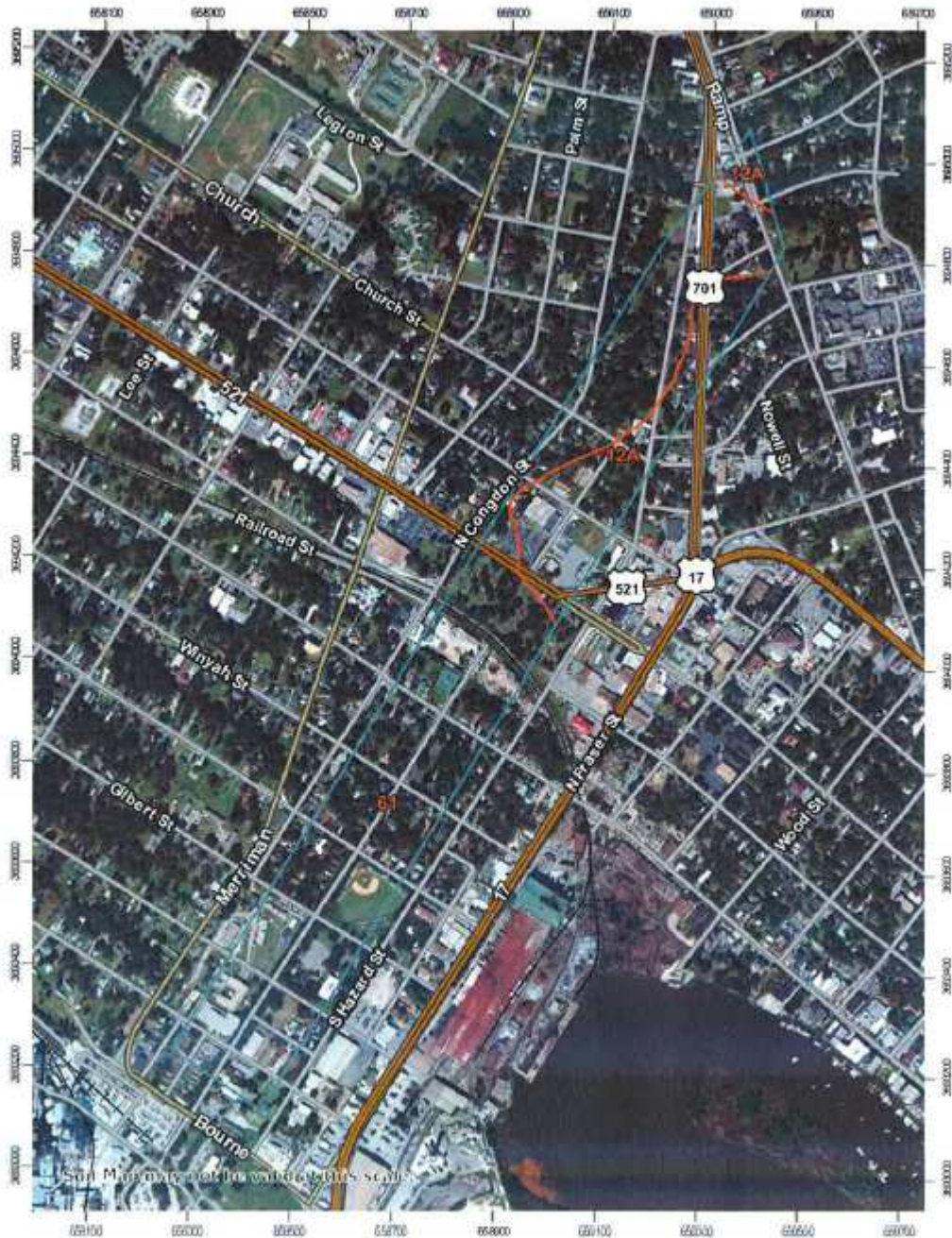
Topographical Map



-  = Proposed water main
-  = Direction of water runoff

Topographical Map
For
Kaminski St. and Heyward St. Water Improvements
02/21/2018
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Soils Map



**KAMINSKI & HEYWARD STREETS
WATER IMPROVEMENTS PROJECT**

**CITY OF GEORGETOWN
SOUTH CAROLINA**

MAP LEGEND		MAP INFORMATION
<p>Area of Interest (AOI)</p> <ul style="list-style-type: none"> Area of Interest (AOI) <p>Soils</p> <ul style="list-style-type: none"> Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points <p>Special Point Features</p> <ul style="list-style-type: none"> Blowdown Borrow Pit Clay Spot Closed Depression Gravel Pit Gravelly Spot Lava Flow Lava Flow Marsh or swamp Mound or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot 	<ul style="list-style-type: none"> Spot Area Stony Spot Very Stony Spot Wet Spot Other Special Line Features <p>Water Features</p> <ul style="list-style-type: none"> Streams and Canals <p>Transportation</p> <ul style="list-style-type: none"> Rails Interstate Highways US Routes Major Roads Local Roads <p>Background</p> <ul style="list-style-type: none"> Aerial Photography 	<p>The soil surveys that comprise your AOI were mapped at 1:20,000.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Warning: Soil Map may not be valid at this scale.</p> <p>Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.</p> </div> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</p> <p>Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Georgetown County, South Carolina Survey Area Data: Version 15, Oct 5, 2017</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Nov 28, 2010—Jan 2, 2012</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p>

Map Unit Legend:

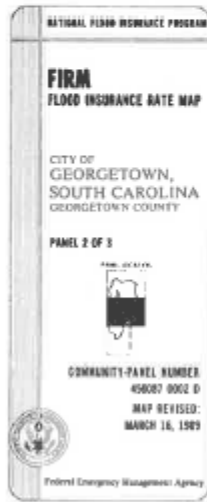
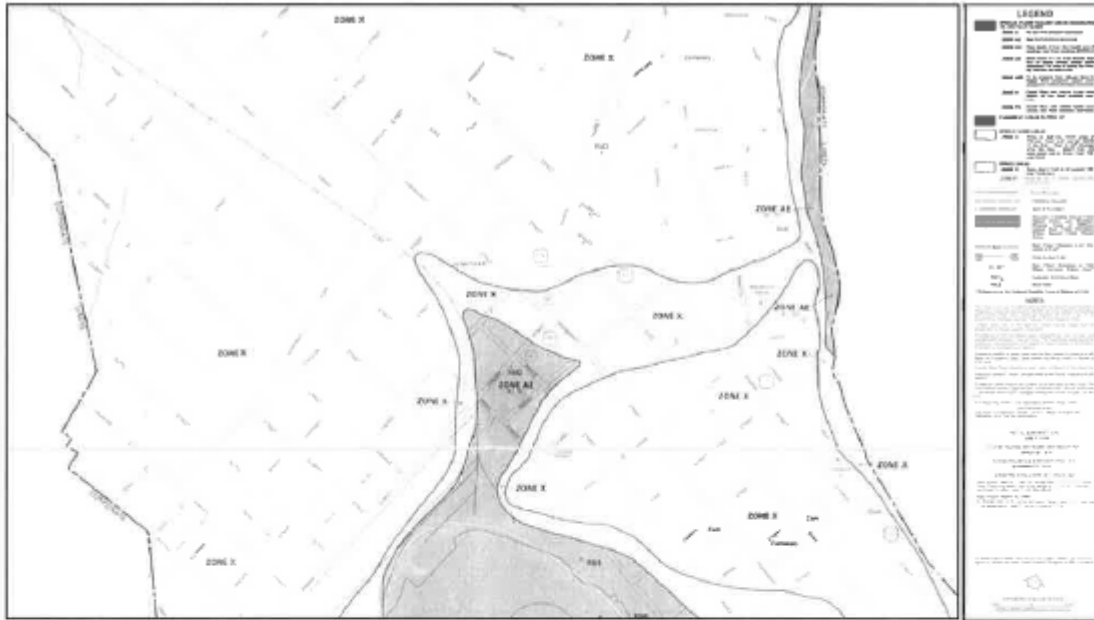
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
12A	Yauhannah loamy fine sand, 0 to 2 percent slopes	22.1	20.6%
61	Yemassee loamy fine sand	85.3	79.4%
Totals for Area of Interest		107.4	100.0%

Soils Map
For
Kaminski St. and Heyward St. Water Improvements
02/21/2018
For
City of Georgetown
By
Weston & Sampson Engineers, Inc.

**KAMINSKI & HEYWARD STREETS
WATER IMPROVEMENTS PROJECT**

**CITY OF GEORGETOWN
SOUTH CAROLINA**

Flood Map



Flood Map
For
Kaminski St. and Heyward St. Water Improvements
02/21/2018
For
City of Georgetown
By
Weston & Sampson Engineers, Inc.

Questions and Answers:

The following are questions with answers in **red ink** that were asked during, before, or after the pre-bid meeting.

1. Are import MJ fittings and restraints approved on this project? **There is no “Buy American” clause in the contract. All fittings must meet the performance and material specification as presented in the contract manual.**
2. Will trenchless construction be acceptable for use on this project? Will the sidewalk/driveways need to be replaced if trenchless construction is used in place of the cut and cover method? **Trenchless construction methods may be used if they are able to complete the work as described in the contract documents. The newly installed water main shall not be installed deeper than 5 feet. If the sidewalk is not disturbed in the process of construction, replacement/repair of the sidewalk and driveways will not be required.**
3. Because of the comprehensive asphalt overlay shown at the intersection of Heyward Street and Black River Road, is it acceptable to open cut Black River Road instead of jacking and boring? **The encroachment permit obtained from the SCDOT requires that the road crossing be installed by jack and bore. In order to use alternate installation methods, it would be the Contractor’s responsibility to obtain permission from the SCDOT.**
4. Being that this is a water main replacement project, will standard DHEC procedures for bacteriological testing be required before putting this new water main into service and removing the temporary service that is servicing customers during the time of construction? **As stated during the Pre-Bid meeting, the City’s experience is that SCDHEC will require the replacement water mains to be tested in accordance with their standard procedures for bacteriological testing. The replacement water mains will not be placed into service, nor the existing water mains abandoned, until they have passed the applicable tests.**

Changes in the Specifications:

1. On the Cover Sheet delete Weston & Sampson's original address of "672 Marina Dr. Suite 204, Charleston, SC 29492" and replace with "3955 Faber Place Drive Suite 300, North Charleston, SC 29405".
2. In References, Section 00015-1 delete Weston & Sampson's original address of "672 Marina Dr. Suite 204, Charleston, SC 29492" and replace with "3955 Faber Place Drive Suite 300, North Charleston, SC 29405".

Changes in the Drawings:

1. On the title block of all sheets, delete Weston & Sampson's original address of "672 Marina Dr. Suite 204, Charleston, SC 29492" and replace with "3955 Faber Place Drive Suite 300, North Charleston, SC 29405".

(END OF SECTION)

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