



Engineering Services Committee Committee Room- 2/6/2007- 1:00 PM
Meeting

ENGINEERING SERVICES

1. Approve Supplemental Agreement Number Four (4) as requested by the Engineering Department with Cranston Engineering Group in the amount of \$86,680 for additional engineering services as required to design street lighting plans, design retaining walls to minimize impacts to properties, provide re-evaluations of the approved environmental document and attend monthly meetings with City Officials and Developers concerning the improvements to Alexander Drive, CPB #323-04-296823215. Funds are available in SPLOST Phase III Recapture Account. ☐ [Attachments](#)
2. Approve Construction Fees for Mabus Brothers for sanitary sewer installation to FJL LLC property and surrounding properties on Doug Barnard Parkway based on the cost-sharing agreement agreed to by the Commission in December 2005. ☐ [Attachments](#)
3. Approve a proposal from Stevenson & Palmer Engineering, Inc. in the amount of \$159,438 for inspection services associated with the Main Interceptor Upgrade and the Industrial Force Main. ☐ [Attachments](#)
4. Approve a proposal from W.K. Dickson in the amount of \$73,652.00 to improve GIS Services to the Augusta Utilities Department. ☐ [Attachments](#)
5. Approve Water Line Agreement to construct a 12" water line through Fairington subdivision to serve additional growth along Tobacco and Windsor Spring Rds. ☐ [Attachments](#)

6. Authorize the execution of an agreement with FERC, Georgia State Historic Preservation Office, and the South Carolina Historic Preservation Office. ☐ [Attachments](#)
7. Approve a proposal from Cranston Engineering Group in the amount of \$72,640.00 to split the 36" design contract into two phases. ☐ [Attachments](#)
8. Authorize Option Year 1 of Amendment No. 7 to the existing Program Management Services Contract with CH2M HILL, INC. to provide Program Management Services for the 2004 Series Bond Capital Improvements Program approved by Commission 02/01/2005. Option Year 1 budget is \$1,350,000. ☐ [Attachments](#)
9. Motion to authorize condemnation of a portion of Tax Map 18, Parcel 364-0, which is owned by Jim Davis Company for a permanent easement of 25,463 feet and a temporary easement of 17,602 feet. Public Works Project: Pointe West Subdivision Drainage Improvement Project. ☐ [Attachments](#)
10. Motion to authorize condemnation of a portion of property #140-0-505-00-0, 3863 Crest Drive, which is owned by Mary E. and George L. Cassels, III for 1,910 square feet for a permanent easement and 1,914 square feet of temporary easement. AUD Project: Horsepen Sanitary Sewer, Phase II ☐ [Attachments](#)
11. Motion to authorize condemnation of a portion of property #140-0-500-00-0, 3873 Crest Drive, which is owned by Philanna M. Peterson for 2,181 square feet for a permanent easement and 2,180 square feet of temporary easement. AUD Project: Horsepen Sanitary Sewer, Phase II ☐ [Attachments](#)
12. Authorize the Engineering Department to extend the current agreement with Jordan, Jones & Goulding (JJG) for one year to provide project management support via staff augmentation in an amount not to exceed \$160,000 to be funded from SPLOST Phase V Administration ☐ [Attachments](#)

lapsed salaries (325-04.1197-5111110) upon receipt and review of executed documents.

13. Discuss the enhancement of the James Brown Statue. ☐ [Attachments](#)
(Requested by Commissioner Williams)
14. Presentation by Mr. Joe Jones of Jay's Car Wash & Supply regarding compensation for his loss of business resulting from roadway improvements on Barton Chapel Road. ☐ [Attachments](#)
15. Report from the Judicial Center Sub-Committee regarding questions concerning the Judicial Center Project relating to the sub-committee's composition, the retention of the current architectural firm and the contract extension with that firm if they are retained. ☐ [Attachments](#)
16. Ratify and approve the actions of AUD to repair and replace the Laney Walker sanitary sewer main between Laney Walker Court and Lover's Lane through a second change order to the existing Laney Walker Sewer Emergency Repair Project in the amount of \$80,214.31 for a total budget of \$545,214.31. ☐ [Attachments](#)
17. Motion to approve and accept an Easement Deed from Jan G. Munn to correct an oversight made during the Stratford Drive Sanitary Sewer Project, constructed in 1978. ☐ [Attachments](#)
18. Approve CPB #322-04-203822642 Change Number Three in the amount of \$49,000.00 to be funded from the project contingency to be allocated for project construction. Also, approve award of construction contract to Blair Construction, Inc. in the amount of \$641,111.12 for the Pinnacle Place Subdivision Erosion & Drainage Improvements Project, subject to receipt of signed contracts and proper bonds. Bid Item # 06-190 ☐ [Attachments](#)
19. Receive Utilities Engineering 2006 Report to be presented at the meeting. ☐ [Attachments](#)

- 20. Motion to approve the recommendation of Mr. Abie ☐ [Attachments](#)
Ladson to the position of Engineering Director.
- 21. Motion to approve Soil Erosion and Sedimentation ☐ [Attachments](#)
Control Ordinance.
- 22. Approve award of design contract in the amount of ☐ [Attachments](#)
\$59,790.00 to W.K. Dickson & Co. Inc. for sanitary
sewer replacement of the Mid-City replacement at
Chafee Park.
- 23. Report from staff regarding the paving of Lamar Road. ☐ [Attachments](#)
- 24. Update from the Administrator and City Engineer on the ☐ [Attachments](#)
repairs to the Willis Foreman Bridge. (Requested by
Commissioner Harper)

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Engineering Services Committee Meeting
2/6/2007 1:00 PM
Alexander Drive from Washington Road to Riverwatch Parkway

- Department:** Abie L. Ladson, P.E., Interim Director Engineering Department
- Caption:** Approve Supplemental Agreement Number Four (4) as requested by the Engineering Department with Cranston Engineering Group in the amount of \$86,680 for additional engineering services as required to design street lighting plans, design retaining walls to minimize impacts to properties, provide re-evaluations of the approved environmental document and attend monthly meetings with City Officials and Developers concerning the improvements to Alexander Drive, CPB #323-04-296823215. Funds are available in SPLOST Phase III Recapture Account.
- Background:** This is a Georgia Department of Transportation (GDOT) project that will widen and widen and reconstruct Alexander Drive to 4 lanes with a 20' raised median from Washington Road to Riverwatch Parkway. Augusta Engineering is responsible for development of the Preliminary Engineering activities and hired Cranston Engineering Group to accomplish these activities. The estimated construction cost is \$7.4 million and GDOT has identified construction funds for fiscal year 2007.
- Analysis:** Cranston Engineering Group entered into an agreement with Augusta-Richmond County on November 13, 1998 to provide the engineering and design services to improve Alexander Drive. The design of the street lighting plans was not included as part of the original agreement. GDOT requires that the approved environmental document must be re-evaluated and approved before the right of way acquisition can begin and the project can be let to contract. This is an additional cost that was not included in the original contract agreement. GDOT has approved the use of retaining walls in the vicinity of the Kroger shopping center parking lot along Alexander Drive. These walls will reduce the impact to the

Kroger parking lot, which will result in an overall savings to the City since the City is responsible for funding and acquiring the right of way. Design for the retaining walls was not included as part of the original agreement. Representatives from the Engineering Department, GDOT, and Cranston Engineering Group are meeting monthly with the developers of the shopping complex on Riverwatch Parkway. These meetings were not included as part of the original agreement.

Financial Impact: Cranston Engineering Group has proposed a total cost of \$86,680 for these additional services. \$68,400 for the design of the street lighting plans \$5,800 for the design of the retaining walls, \$7,920 for the re-evaluations of the approved environmental document and \$4,560 for the additional meetings.

Alternatives: 1) Approve Supplemental Agreement Number Four (4) as requested by the Engineering Department with Cranston Engineering Group in the amount of \$86,680 for additional engineering services as required to design street lighting plans, design retaining walls to minimize impacts to properties, provide re-evaluations of the approved environmental document and attend monthly meetings with City officials and developers concerning the improvements to Alexander Drive, CPB #323-04-296823215. Funds are available in SPLOST Phase III Recapture Account. 2) Do not approve the request and jeopardize the progress of this important project to Augusta.

Recommendation: Approve Alternative Number One.

Funds are Available in the Following Accounts: 323-04.1110-6011111/296823333-6011111

REVIEWED AND APPROVED BY:

**Finance.
Administrator.
Clerk of Commission**

**AUGUSTA-RICHMOND COUNTY
DEPARTMENT OF PUBLIC WORKS & ENGINEERING
SUPPLEMENTAL AGREEMENT**

Project No. STP-0001-00 (794); PI 0001794
SUPPLEMENTAL AGREEMENT NO. 4
P.O. 1444

WHEREAS, We, **Cranston Engineering Group, P. C.**, Consultant, entered into a contract with Augusta-Richmond County on November 13, 1998, for engineering design services associated with the widening and reconstruction of Alexander Drive from Washington Road to Riverwatch Parkway, Project No. STP-0001-00 (794), File Reference No. 07-014 (A), and

WHEREAS, certain revisions to the design requested by Augusta-Richmond County are not covered by the scope of the original contract, we desire to submit the following Supplemental Agreement to-wit:

*Additional engineering services required to design street lighting plans,
design retaining walls to minimize impacts to properties, provide re-
evaluations of the approved environmental document and attend monthly
meetings with City officials and developers.*

It is agreed that as a result of the above described modification the contract amount is increased by \$86,680 from \$330,638.35 to a new total of \$417,318.35.

Any modifications to submittal dates shall be as identified in the attached proposal. This agreement in no way modifies or changes the original contract of which it becomes a part, except as specifically stated herein.

NOW, THEREFORE, We, **Cranston Engineering Group, P. C.**, Consultant, hereby agree to said Supplemental Agreement consisting of the above mentioned items and prices, and agree that this Supplemental Agreement is hereby made a part of the original contract to be performed under the specifications thereof, and that the original contract is in full force and effect, except insofar as it might be modified by this Supplemental Agreement.

This _____ day of _____, 2007.

RECOMMEND FOR APPROVAL:

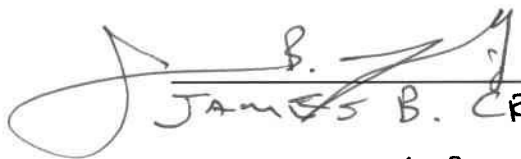
CITY OF AUGUSTA-RICHMOND COUNTY
AUGUSTA, GEORGIA

Mayor

Approved: Date _____

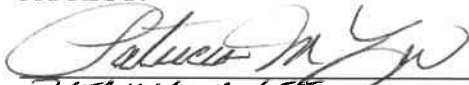
ATTEST:

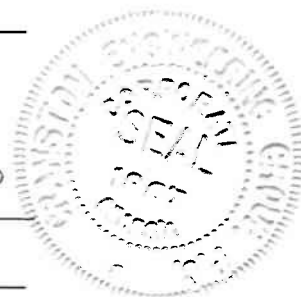
Title: _____

 AS ITS V.P.
JAMES B. CRANFORD, JR.

Approved: Date 1-3-07
[ATTACHED CORPORATE SEAL]

ATTEST:


PATRICIA M. LEE
Title: COMPTROLLER





Cranston Engineering Group, P.C.
ENGINEERS - PLANNERS - SURVEYORS

452 ELLIS STREET, AUGUSTA, GEORGIA 30901
POST OFFICE BOX 2546, AUGUSTA, GEORGIA 30903
TELEPHONE 706-722-1588
FACSIMILE 706-722-8379
mail@cranstonengineering.com

THOMAS H. ROBERTSON, PE, AICP, RLS
ELDRIDGE A. WHITEHURST, JR., PE
JAMES B. CRANFORD, JR., PE
DENNIS J. WELCH, PE

J. CRAIG CRANSTON, PE, RLS
(RETIRED)

January 7, 2006

Mr. David Griffith, Project Manager
Augusta Public Works and Engineering Department
1815 Marvin Griffin Road
Augusta, GA 30906

Re: Alexander Drive Widening & Relocation Project
STP-0001-00(794), P.I. No.: 0001794, Richmond
Supplemental Agreement No. 4
CRW File No.: 1998-0264

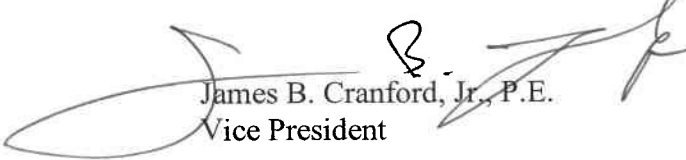
Dear Mr. Griffith:

We are herewith returning three (3) executed original documents for Supplemental Agreement No. 4 for the Alexander Drive Widening and Relocation Project. As mentioned in our letter dated December 19, 2006, we are prepared to begin work immediately upon receipt of an executed Supplemental Agreement returned to our office.

We appreciate the opportunity to be of service to Augusta Engineering and Public Works Department. Please contact us at your convenience should you have any questions regarding any aspect of this proposal.

Sincerely,

CRANSTON ENGINEERING GROUP, P.C.


James B. Cranford, Jr., P.E.
Vice President



ENGINEERING DEPARTMENT

Abie L. Ladson, P.E.
Interim Director

January 2, 2007

James B. Cranford, P. E., Vice-President
Cranston Engineering Group, P. C.
P O Box 2546
Augusta, GA 30903

Dear Mr. Cranford:

RE: IMPROVEMENTS TO ALEXANDER DRIVE
STP-0001-00 (794) RICHMOND, PI 0001794
ARC NUMBER: 323-04-296823215
FILE REFERENCE: 07-014 (A)

This office is in receipt of your letter dated December 19, 2006 concerning the cost proposal for additional engineering services on the noted subject. To process this request please execute the enclosed three (3) original documents identified as Supplemental Agreement 4 and return them to my attention as soon as possible.

Please call 770-862-4024 if any additional information is needed.

Sincerely,

A handwritten signature in black ink, appearing to read "David O. Griffith".

David O. Griffith
Acting Project Manager
Augusta Engineering Department

C: Abie Ladson, Interim Director, Augusta Engineering Department
Robert Oliver, Interim Assistant Director, Augusta Engineering Department
Tony Williams, Interim Preconstruction Engineer, Augusta Engineering Department
Preconstruction File



Cranston Engineering Group, P.C.
ENGINEERS - PLANNERS - SURVEYORS

452 ELLIS STREET, AUGUSTA, GEORGIA 30901
POST OFFICE BOX 2546, AUGUSTA, GEORGIA 30903
TELEPHONE 706-722-1588
FACSIMILE 706-722-8379
mail@cranstonengineering.com

THOMAS H. ROBERTSON, PE, AICP, RLS
ELDRIDGE A. WHITEHURST, JR., PE
JAMES B. CRANFORD, JR., PE
DENNIS J. WELCH, PE

J. CRAIG CRANSTON, PE, RLS
(RETIRED)

December 19, 2006

Mr. David Griffith, Project Manager
Augusta Public Works and Engineering Department
1815 Marvin Griffin Road
Augusta, GA 30906

Re: Alexander Drive Widening & Relocation Project
STP-0001-00(794), P.I. No.: 0001794, Richmond
Proposal for Additional Engineering Services
CRW File No.: 1998-0264

Dear Mr. Griffith:

Cranston Engineering Group, P.C., is pleased to offer this proposal for various additional engineering services for the Alexander Drive Widening & Relocation Project located in Augusta, Georgia. This proposal presents the scope of services to be offered by our design team and the engineering fees to complete the proposed work.

The following additional services have recently been requested by the City of Augusta:

1. Provide Street Lighting Plans for the project
2. Provide Structural Design and plans for light structure foundations
3. Provide Structural Design and plans for new retaining wall design along the Kroger parking lot
4. Attend various meetings with City officials and developers
5. Provide re-evaluations of Environmental Document

We propose to subcontract with Gresham, Smith and Partners to provide the electrical engineering design services. Gresham, Smith and Partners is prequalified to perform work for Area Class 3.15, Street Lighting, for the Georgia Department of Transportation. Qore Property Sciences, currently on the design team, will perform the additional work to update the environmental documents requested by GDOT Office of Environment and Location. Cranston Engineering Group, P.C. will provide the structural

design for the light pole foundations and additional retaining walls that have been added to the project. In addition, at the request of the city, our firm has attended many meetings that were not in the original scope of work. To date, the time to prepare for and attend these meetings with various developers and hold a Public Information Open House amounts to approximately 30 Professional Engineer hours and 12 Engineering Technician hours. We can no longer absorb these out-of-scope hours in our original budget and estimate that an additional 24 hours of Professional Engineer time and 8 hours of Engineering Technician time will be required to meet with various developers and property owners to complete the project.

Scope of Services

The scope of services and deliverables to be provided by our team for this project includes the following:

Electrical Engineering

We propose to prepare the street lighting plans for the project along the proposed Alexander Drive alignment between Washington Road and Riverwatch Parkway. As an alternative, we have provided the scope and fee to also include the lighting plans along Alexander Court North and South. The proposed work will include:

- 1) Field Evaluation
- 2) Coordination with local power utility to identify the best external power source location(s) for the lighting and show on plans.
- 3) Evaluation of the number of power metering points
- 4) Identification of power service runs.
- 5) Calculation of electrical service loads and wiring schematics.
- 6) Production of lighting construction plans along the proposed alignment of Alexander Drive to be included in GDOT Roadway plans for letting. Alexander Court North and South will also be included if requested. The fee for providing lighting plans for these areas has been identified in our fee schedule separately. This will entail producing a cover sheet, index, revision summary sheet, summary of quantities, detailed estimate, plan sheets, special details (if required), special provisions (if required) and including all applicable Georgia Standards and Details.
- 7) Preparation of necessary special provisions in Microsoft Word format.
- 8) Revisions to project lighting plans and Special Provisions as necessary.
- 9) Preparation of Designer's Cost estimate.
- 10) Provide design values for light intensities and uniformity ratios with design computation documentation.
- 11) Provide in hardcopy or Microstation DGN format a photometric layout including but not limited to the Illuminance Method design computations including: Road Classification, Pedestrian Conflict Area category, Roadway Surface Classification, Minimum Maintained Average Footcandle level, and Uniformity Ratio avg/min. as per Table 2 page 8 of the IES RP-8-00 publication.
- 12) Coordinate lighting design with roadway design.

- 13) Coordinate lighting design with the Utility Office.
- 14) Create final drawings.
- 15) Prepare Pole Data Legend Sheet which shall include:
 - a) Circuit number
 - b) Roadway station and offset
 - c) Luminaire wattage and type
 - d) Mounting height
 - e) Mounting arrangement
- 16) Plan Sheets or Layout Sheet at 1" = 40' scale
 - a) Including pole and service point location(s)
 - b) Identify utility owner, address and contact person with specific connection information.
- 17) Provide Construction Details
- 18) Provide itemized quantities and detailed estimate.
- 19) Review shop drawings
- 20) Make all required "Use on Construction" revisions.
- 21) Provide manufacturer "Cut Sheets" for all proposed luminaires.

Additional Environmental Services:

We propose to provide the Environmental Document re-evaluation as requested by the Georgia Department of Transportation in January of 2007 and July of 2007. These two (2) re-evaluations will be required at the six month intervals up to the October 2007 let date for the project.

Deliverables

The following items shall be delivered to the City of Augusta and Georgia Department of Transportation:

Electrical Engineering:

- a) Photometric Layout
- b) Pole Data and Legend Sheet(s)
- c) Plan Sheets, Foundation Design Sheet(s)
- d) Cover Sheet, Detail Sheet(s), Summary of Quantities and Detailed Estimate
- e) All electronic files, including all Microstation (.dgn) files and all special provisions in Microsoft Word (.doc) format.
- f) 2 hardcopies of the project specific Special Provisions (8-1/2" X 11").
- g) 2 hardcopies of the Designer's Cost Estimate (8-1/2" X 11").
- h) 3 sets of Final Construction Plans (1 full size Mylar, 1 full size paper and 1 half size paper).
- i) 2 sets of Revised Final Construction Plans (1 full size Mylar and 1 half size paper).

Environmental Document:

- a) Provide re-evaluation of Environmental Document and submit revised document to the Georgia Department of Transportation Office of Environment and Location. Two (2) re-evaluations and submissions will be provided.

Structural Engineering:

- a) Provide structural plans and details for lighting structure foundations and retaining walls.

Engineering Fees and Time of Completion

We propose to complete the work in accordance with the following Lump Sum Fees:

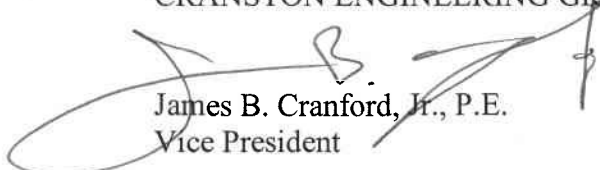
Electrical Engineering - Alexander Drive:	\$ 57,600.00
Electrical Engineering – Alexander Court North and South (Optional)	\$ 7,400.00
Light Pole Foundation Design:	\$ 3,400.00
Retaining Wall Design:	\$ 5,800.00
Additional Environmental Services:	\$ 7,920.00
Attend Various Project Meetings:	<u>\$ 4,560.00</u>
Grand Total	\$ 86,680.00

We are prepared to begin work immediately and proceed with the work upon receipt of an executed Supplemental Agreement returned to our office. Please note that we will require a Notice to Proceed in January in order to complete the work for the Final Field Plan Review to be held in May of 2007.

We appreciate the opportunity to be of service to Augusta Engineering and Public Works Department. Please contact us at your convenience should you have any questions regarding any aspect of this proposal.

Sincerely,

CRANSTON ENGINEERING GROUP, P.C.


James B. Cranford, Jr., P.E.
Vice President



Engineering Services Committee Meeting

2/6/2007 1:00 PM

Approve Construction Fees for Mabus Brothers for FJL LLC and the Augusta Auto Auction Property

Department: Utilities

Caption: Approve Construction Fees for Mabus Brothers for sanitary sewer installation to FJL LLC property and surrounding properties on Doug Barnard Parkway based on the cost-sharing agreement agreed to by the Commission in December 2005.

Background: In Fall 2005, AUD and FJL LLC met and proposed a cost-sharing to install a sanitary sewer line to service properties on Doug Barnard Parkway. Based on the area to be served by the line, it was determined that AUD would cost-share to pay 60% of the cost, not to exceed \$260,000.00. This was approved in concept by the Commission on December 5, 2005. FJL and their construction manager, Kuhlke Construction & Associates, submitted plans through the review process and were approved. Per the conditions of the agreement, Kuhlke and FJL conducted a bid process and determined Mabus Brothers was the apparent qualified low bidder. Subsequently, the scope of the original concept changed, and the original development was split into several smaller developments. The amount of property to be served by the sewer line did not change. Subsequently, Kuhlke and FJL negotiated the revised scope with Mabus Brothers to develop a new cost. AUD reviewed the pricing submitted from this negotiation and determined it to be consistent with AUD's historical average cost data.

Analysis: The final submitted price for the sewer line was \$305,988.00. Because that scope of work includes approximately 60% of the project total, FJL asked AUD to pay for that scope of work in its entirety. AUD agreed, provided that all of the sanitary sewer line is installed prior to full payment. Based on the cost estimates, the \$260,000.00 is less than than 60% of the project total.

Financial Impact: \$260,000.00 from Renewal and Extension Account
507043420-5425210 / 80700010-5425210.

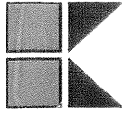
Alternatives: None Given.

Recommendation: We recommend approving the Construction Fees for Mabus Brothers for sanitary sewer installation to FJL LLC property and surrounding properties on Doug Barnard Parkway based on the cost-sharing agreement agreed to by the Commission in December 2005.

**Funds are
Available in the
Following
Accounts:** 507043420-5425210 / 80700010-5425210

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**



KUHLKE CONSTRUCTION & ASSOCIATES, INC.

Augusta Auto Auction/Sanitary Sewer – Bid Process Summary

1. Original Base Bid – Augusta Auto Auction – May 2005			
Mabus Brothers \$1,273,991.00	Team Excavating \$1,361,280.00	Beam Contracting \$1,414,799.00	Sitemaster \$1,449,513.00

2. Budget Bids – Sanitary Sewer Only – “Offsite Portion” – October 2005	
Mabus Brothers \$201,617.00	Blair Construction \$225,000.00

3. Budget Bids – Offsite Sanitary Sewer – “Epoxy Lined” – February/March 2006	
Mabus Brothers \$338,328.00	Steve Wheatley \$349,800.00

4. Final Price – Offsite Sanitary Sewer and Onsite to Manhole A-13 – September 2006
Mabus Brothers \$305,988.00



Office of The Administrator

Frederick L. Russell, Administrator

Tameka Allen, Interim Deputy Administrator
Robert Leverett, Interim Deputy Administrator

Room 801 - Municipal Building
530 Greene Street - AUGUSTA, GA. 30911
(706) 821-2400 - FAX (706) 821-2819
www.augustaga.gov

December 5, 2005

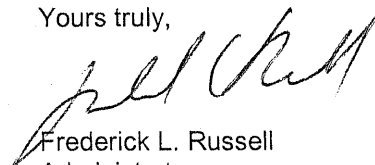
Mr. Max Hicks
Utilities Director
360 Bay Street
Augusta, GA 30907

Dear Max:

The Augusta-Richmond County Commission, at their regular meeting held on Monday, December 5, 2005, approved concept of Cost Sharing Agreement for construction of sewer line along Doug Barnard Parkway to Dixon Airline Road.

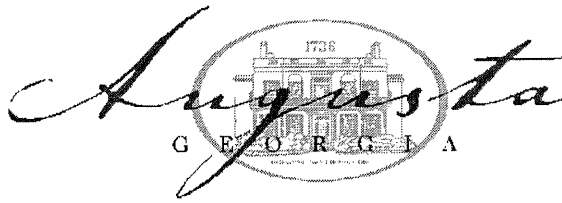
If you have any questions, please contact me.

Yours truly,



Frederick L. Russell
Administrator

12-05-05: Addendum 4



**Engineering Services Committee Meeting
11/28/2005 3:00 PM
Concept of Cost Sharing Agreement**

- Department:** Utilities Department
- Caption:** Approve Concept of Cost Sharing Agreement for Construction of Sewer Line Along Doug Barnard Parkway to Dixon Airline Road.
- Background:** Mr. Frank Lawrence, a principle in the corporation FJL, LLC, approached the Utilities Department regarding sanitary sewer service to a parcel of land located at the intersection of Dixon Airline Road and Doug Barnard Parkway. The lowest initial cost for the sewer service would be to install a sewage pumping station and force main to discharge to an existing sewer line that is uphill from the parcel of land and on the opposite side of the railroad tracks. The most cost effective long term plan for sewer service to the parcel would be to construct a sewer line along Doug Barnard Parkway from the Butler Creek Interceptor Sewer to the parcel under consideration and to also extend the line to serve two adjacent properties neither of which is owned by FJL, LLC. After several meetings and cost analyses, we developed the concept of a cost sharing agreement whereby AUD would contribute 60% of the construction cost of the new sewer lines and FJL, LLC would contribute 40% of the construction cost. This cost sharing is suggested as fair since the line will serve two other properties other than that owned by FJL, LLC. In addition to the construction cost sharing, FJL, LLC will pay for all the design and bidding and permit application costs. The design and construction will be in accordance with the Standards and Specifications of the Augusta Utilities Department. Attached is a copy of the letter of proposal for this agreement from Southern Partners, Inc. on behalf of FJL, LLC. At this time, we are proposing to allocate \$260,000.00 from the AUD Renewal and Extension Fund to cover AUD's portion of the construction cost.
- Analysis:** Approval of this agenda item will provide for an agreement,

which will result in construction of the sewer line to open up an area for development along Doug Barnard Parkway near the airport. With FJL, LLC ready to proceed with their proposed development at the corner of Dixon Airline Road and Dug Barnard Parkway we have an opportunity to share the line construction cost and thereby reduce the cost that AUD would pay if we provided the entire cost for a line to this area of development. FJL, LLC plans to construct an auto auction complex on the site.

Financial Impact: At this time, we are estimating a maximum cost to AUD not to exceed \$260,000.00. When the bids are received, we will then request Commission approval of the exact amount needed for 60% of the cost.

Alternatives:

1. Approve the concept of cost sharing agreement and thus reduce AUD's total cost for a gravity sewer line to the area.
2. Do not approve the concept. This would delay development in the area and would most likely result in AUD bearing a large cost for a future gravity line.

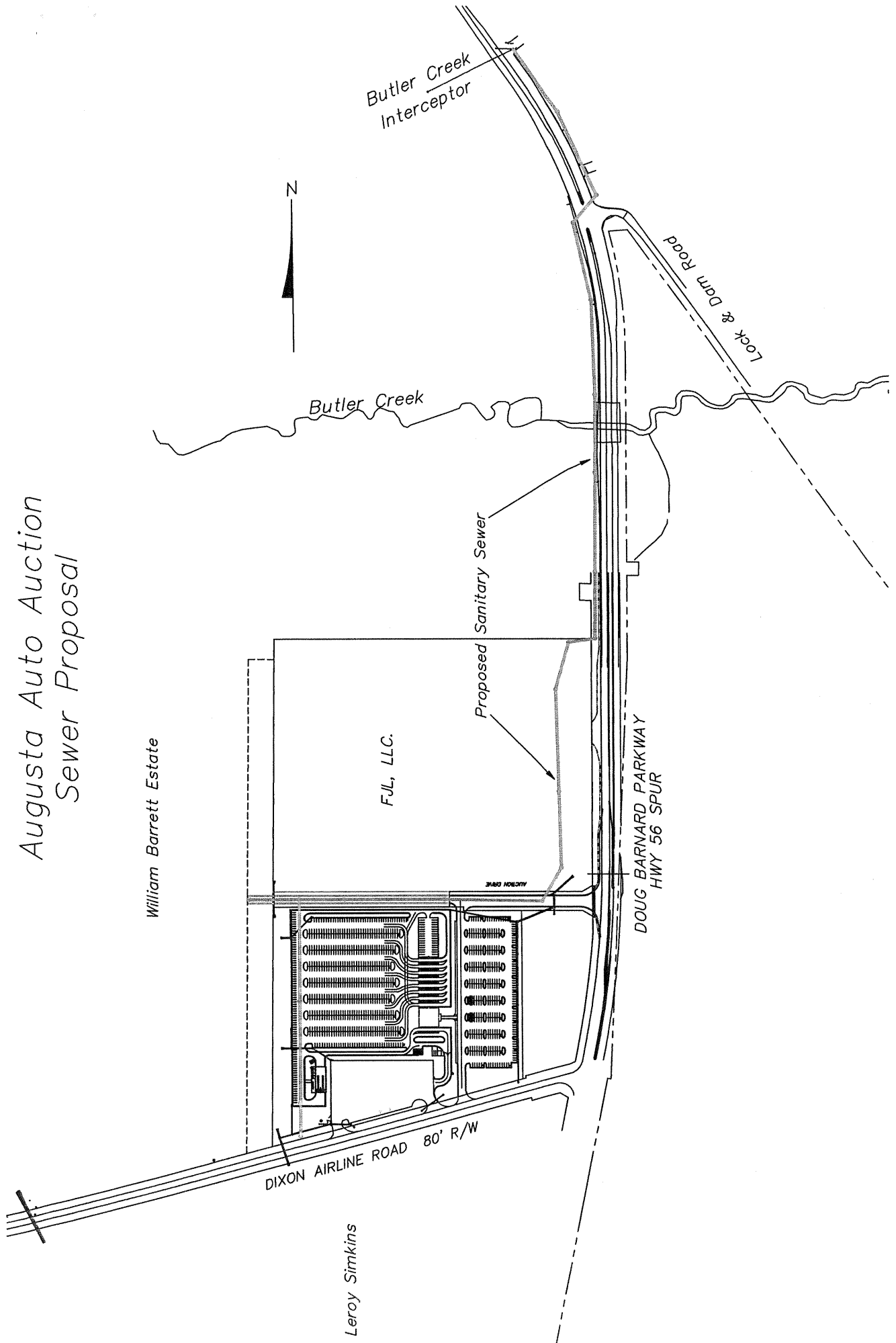
Recommendation: We recommend approval of the concept of a cost sharing agreement as proposed for construction of the sewer line and authorization for either the Administrator or the Mayor to sign a cost sharing agreement with FJL, LLC.

**Funds are
Available in the
Following
Accounts:** N/A

REVIEWED AND APPROVED BY:

**Finance.
Administrator.
Clerk of Commission**

Augusta Auto Auction Sewer Proposal



**Southern
Partners, Inc.**

Engineering - Surveying - Planning
G.P.S. Control Surveys

September 28, 2005

N. Max Hicks, P.E. Director
Augusta Utilities Department
360 Bay Street, Suite 180
Augusta, GA 30901

Re: Dixon Airline Road sewer extension

Dear Mr. Hicks:

Based on our meeting on September 22, 2005, we are requesting on the behalf of FJL, LLC, a monetary contribution based on 60% of the actual construction costs for the installation of the proposed gravity sanitary sewer. This sewer will service three properties located on Dixon Airline Road between Doug Barnard Parkway (to the east) and Norfolk Southern Railroad (to the West). These properties are as follows:

- 1) Parcel Number: 135-0-005-00-0 owned by William White Barrett ES of 3210 Cadance Dr, Augusta, GA 30909
- 2) Parcel Number: 146-0-005-00-1 owned by FJL, LLC of P. O. Box 15398, Augusta, GA 30919
- 3) Parcel Number: 146-0-006-00-0 owned by Leroy H. Simkins, III of 103 Macartan Street, Augusta, GA 30901

For this monetary contribution, FJL, LLC will pay for all surveying and engineering design cost, apply for all permits, hold a competitive bidding for the installation of the sewer extension (which Augusta Utilities Department is welcome to monitor), and have the sewer extension installed by the site contractor per the Standards and Specifications of Augusta Utilities Department.

Again, this monetary contribution will be based on a percentage of the utilities contractors approved pay request. All permitting, design and bidding cost will be the responsibility of FJL, LLC.

Thank you for your consideration of this proposal. If you have any questions, please call or e-mail me at dbanks@southernpartners.net.

Sincerely,



David D. Banks, P.E.

Cc: Mr. Frank Lawrence
Mr. Ed Dickerson



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Approve Construction Fees for Mabus Brothers**

DATE: January 24, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. This request is to extend \$260,000.00 for Mabus Brothers (approved 12/05). If you have any questions, please contact me at (706) 821-2406.

YG:glw



Engineering Services Committee Meeting

2/6/2007 1:00 PM

Approve Construction Inspection Proposal for the Main Interceptor Upgrade Phase 1

Department:	Augusta Utilities Department
Caption:	Approve a proposal from Stevenson & Palmer Engineering, Inc. in the amount of \$159,438 for inspection services associated with the Main Interceptor Upgrade and the Industrial Force Main.
Background:	The Utilities Department is in the process of awarding two construction contracts dealing with specialty pipe. Both projects were designed by Stevenson & Palmer Engineering over the past several years. The Industrial Force Main Project is already approved and includes the installation of several thousand feet of HDPE pipe. The other project is the replacement of the existing Main Interceptor from Dan Bowles Road to Laney Walker. As noted above, both projects include the installation of specialty pipe fairly new to Augusta, but widely accepted as excellent sanitary sewer conveyance pipe.
Analysis:	The Utilities Department has many projects under construction at this time and the in-house inspection staff is already spread quite thin. Stevenson & Palmer Engineering has an experienced inspector available with good background utilizing these types of piping materials.
Financial Impact:	\$159,438 from the 2002 Bond Issue, under account number 511043420-5213119 / 80160115-5213119.
Alternatives:	Reject the proposal and either: (1) seek other qualified inspection service providers; or (2) obtain the proper training for an in-house inspector and have this person inspect the projects.
Recommendation:	We recommend approving the proposal from Stevenson &

Palmer, Inc. in the amount of \$159,438 for the inspection services associated with the Main Interceptor Upgrade Phase 1.

**Funds are
Available in the
Following
Accounts:**

511043420-5213119 / 80160115-5213119.

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Construction Inspection Proposal for the Main Interceptor Upgrade
Phase One - Stevenson & Palmer Engineering**

DATE: January 5, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



Engineering Services Committee Meeting

2/6/2007 1:00 PM

Approve Consulting Fees for WK Dickson to provide GIS Services to Augusta Utilities

Department:	Utilities
Caption:	Approve a proposal from W.K. Dickson in the amount of \$73,652.00 to improve GIS Services to the Augusta Utilities Department.
Background:	The Augusta Utilities Engineering Division has significantly invested in GIS technology to support its daily operations. This investment includes computer hardware and software applications for both field and office personnel. The long term goals of Augusta Utilities is to build a seamless field editing solution for both water and sewer GIS data sets and to integrate our current work order management software (GBA) with our GIS data and provide field access to both.
Analysis:	Accepting this proposal will allow for the development of the tools and data sets required to take full advantage of the available technology to enhance our GIS water and sewer models, and provide field viewing and editing for work order management and GIS data. It will also provide the opportunity to develop an efficient geodatabase maintenance workflow process, provide customized programming when required and hands on training of AUD personnel.
Financial Impact:	\$73,652.00 from account 511043420-5425210/ 80399999-5425210
Alternatives:	Do not approve the fees and delay progress to achieving the Benchmark 2010 goals.
Recommendation:	We recommend approving the proposal from W.K. Dickson in the amount of \$73,652.00 to provide GIS consulting services in association with reaching our Benchmark 2010 goals.

**Funds are
Available in the
Following
Accounts:**

511043420-5425210/ 80399999-5425210

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**

November 13, 2006

Mr. Wes Byne PE
Assistant Director – Engineering
Augusta Utilities Department
360 Bay Street, Suite 180
Augusta, GA 30901

Dear Wes:

WK Dickson (WKD) is pleased to offer this proposal for GIS services for Augusta Utilities. After thorough review of the existing data development and management practices in use by Augusta Utilities, it is our idea to present a multi-phase and scalable approach that will build upon the current inventory data. This approach allows for future data management using the latest data formats and industry standard technology.

Augusta Utilities has indicated during multiple project planning meetings a desire to make use of available field data editing technology. This proposal is providing an approach to utilize hardware and software available for field data editing, while also enhancing data management within the office using current industry standard solutions from ESRI. Additionally it is understood that Augusta Utilities has a need for field viewing of work order and GIS data by field crews.

WKD understands that Augusta Utilities' ability to deploy this technology will largely be dependent on budget resources. It is for this reason that WKD is proposing a scalable approach to utilize the existing Geo XT units with ArcPad for field data management until field computers can be deployed. Additionally we are proposing to utilize the enhanced capability of the geodatabase for the two data managers responsible for water and sewer GIS development. This will require the ArcEditor level of licensing for ArcGIS which Augusta Utilities has indicated it currently maintains five such licenses.

The scope of GIS services and compensation for services included in this proposal are:

Phase 1: Project Coordination and Data Model Development

The project will begin with the project initialization meeting and data model workshop. The primary objective of this meeting will be to develop data models for both water and sewer utilities that are customized to Augusta Utilities current standards for attributes and

unique identifiers as well as integration requirements for work order management software and other utility management tools. Using input from the data model workshop, WKD will then prepare a Microsoft Visio document illustrating each utility data model to be delivered to Augusta Utilities. These data models will serve as a reference document throughout the project for both Augusta Utilities and WKD to ensure proper understanding of attributes and relationships among the databases. Water and Sewer data models will be delivered to Augusta Utilities in hardcopy format as well as Adobe PDF for ease of use and reprinting.

Additional objectives of the project initialization meeting will be for Augusta Utilities to provide WKD with any updates to datasets as well as to establish lines of communication for the project.

WKD understands that proper communication is critical to project success. The Augusta Office of WKD will be the primary contact for this project. Being located close to Augusta Utilities and connected to all other WKD offices via a high-speed network will allow quick transfer of data and project materials. Routine project update meetings will also be scheduled with Augusta Utilities to maintain communication on the project and to provide an opportunity for resolution of questions as they arise.

It is anticipated that a total of six (6) onsite will be necessary throughout the course of the project. These site visits will take place during each phase of the project and will be scheduled during a convenient time for both Augusta Utilities and WK Dickson.

Phase 2: Geodatabase Conversion

Following the acceptance by Augusta Utilities of the data models developed during the data model workshop, creation of the geodatabases and migration of data into each geodatabase will begin. Currently sewer data is being maintained in ESRI shapefiles. This data will be migrated to the geodatabase to create a seamless data set. Water data is already in a geodatabase format, however that geodatabase has not been designed to take advantage of subtypes and domain values or the geometric network. These changes to the water geodatabase will be necessary to take full advantage of the geodatabase's functionality and to provide the necessary capability that Augusta Utilities desires from each data set.

Geodatabases will be developed to take advantage of subtypes with domains established for common values. This will simplify the use of coded values and "pull down" style menus in both the field and office data management tasks. Each geodatabase will also be designed with a geometric network. The geometric network is a weighted relationship between feature classes within the dataset that establishes connectivity. While features participating in a geometric network cannot be edited unless the user is operating an ArcEditor license of

ArcGIS, it is possible to remove the geometric network in versions of the original geodatabase that would be eligible for editing in the field with the ArcView level of licensing. This will allow Augusta Utilities to take advantage of the functionality of the geometric network for data management without being required to provide an ArcEditor license for each data editor in the field.

Relationship classes in the geodatabase will also be utilized to establish relationships between objects. The use of composite relationship classes will enable rules to be established for the data that determine the effects creating, editing or deleting features will have on other objects.

Following completion of the geodatabases, all existing data will be loaded into the corresponding geodatabase for future use. Following review of both water and sewer data sets from Augusta Utilities, it is understood that the total counts for features in each utility are as follows:

Sewer

Manholes	1,038
Miles of Main	41.85

Water

Valves	11,729
Hydrants	4,870
Elevated Tanks	27
Junctions	8,872
Reducers	284
Miles of Main	972.14

Deliverables to Augusta Utilities following the geodatabase conversion phase will be a geodatabase for water, and similarly a geodatabase for sewer. Each geodatabase will be built in accordance with the data model developed with input from Augusta Utilities staff during the data model workshop. Each geodatabase will utilize subtypes and domain values where necessary, and a geometric network will be established between features requiring connectivity in the GIS. Relationships between features identified during the data model workshop will also be created as relationship classes in the geodatabase. The geodatabases will be populated with water and sewer inventory data provided to WKD by Augusta Utilities.

Phase 3: Geodatabase Maintenance Workflow Development

Once the geodatabases are developed, it will be necessary to establish the workflows for both office and field maintenance of the data. WKD understands that the long term goals of Augusta Utilities is to provide a field editing solution for both water and sewer data sets as well as to integrate the current workorder management software with the GIS data for access to workorder and GIS data from the field. We also understand that Augusta Utilities has invested significant resources in the acquisition of Trimble Geo XT handheld GPS data collectors running ArcPad software. While the Geo XT unit does not possess the internal memory or processor capabilities to take large datasets into the field, they are still a very effective data collection tool for utility inventories. What we are proposing is an approach that will utilize the Geo XT units for data collection and maintenance and is also easily transferable to field tablet or notebook computers at any point at which Augusta Utilities desires to begin deploying these devices. Using existing functionality in the ArcPad check-in and check-out toolsets it will be possible for features from the geodatabase to be checked out to the Geo XT running ArcPad software. These checkouts can be taken into the field for additional data collection or for editing of previously inventoried data. Position updates for features such as manholes, valves or hydrants as well as attribute edits will be possible with the development of custom forms for ArcPad. WKD will develop ArcPad forms for both water and sewer feature collection based on attributes and domain values established from the geodatabases. Additional attributes will be added to allow the symbolization of feature edits such as features that are moved, deleted or have attribute edits by users in the office. Using the ArcPad data check –in tools in ArcGIS, it will then be possible to check the data collected and edited in the field using ArcPad back into the geodatabase for final editing and acceptance.

WKD will work with Augusta Utilities water and sewer data to develop an efficient workflow for checking data out to ArcPad as well as editing data in the office. This workflow will be compiled in a Project Workflow Reference document that will outline the specific steps to accomplish each data maintenance task.

Deliverables to Augusta Utilities following the tasks of Phase 3 will be the completed ArcPad application forms to be operated on the Geo XT units for water and sewer data collection and editing. The Project Workflow Reference document will serve as a reference manual for the data maintenance workflow for the new geodatabases. Additionally on-site training in the use of ArcGIS editing tools and ArcPad check-in and check-out procedures will be provided to train Augusta Utilities staff on the workflow for utilizing the geodatabase with ArcGIS software. WKD will also train Augusta Utilities in utilizing existing ArcGIS functionality to accomplish the following specific tasks identified during project planning meetings.

- Transferring attributes from one feature to a newly located feature
- Use of relationship classes for altering related featureclasses such as gravity mains associated with manholes.
- Use of geometric network weighting to assign snapping rules for edited features

Phase 4: Custom Tool Development and Field Deployment

Augusta Utilities has highlighted multiple tools that are desired for development to automate the data import / export and data maintenance processes. Some of these tools have been addressed through software upgrades to ArcGIS software and the development of the geodatabase. Additionally, new scripts are being continuously developed and distributed via the ESRI Arc Scripts portal. WKD's staff of custom programmers remains eager to develop tools that meet the needs of Augusta Utilities, however given the enhancements to the ESRI software and Arc Scripts already developed and freely available WKD proposes an alternate approach to custom tool development. WKD proposes an On-Call services billing portion of the contract be established with a not to exceed budget figure. Under this portion of the contract, WKD will work with Augusta Utilities to identify scripts and tools needed to enhance the data management processes. Furthermore, WKD will seek to identify readily available scripts or software enhancements that address the issues identified. In the event no solution is currently available, Augusta Utilities may engage the programming staff of WKD at any point for the custom development of tools or applications, or for the adaptation of existing tools to meet specific needs. Upon request by Augusta Utilities for custom programming by WKD staff, a set scope and deliverables along with fee will be agreed upon prior to commencement of work.

WKD is proposing this approach to afford Augusta Utilities the efficiency of industry developed and freely available tools while also offering a mechanism through which any programming needs can be met. WKD believes that enhancements to ArcGIS software as well as the conversion of utility data to the fully utilized geodatabase will address many of the issues highlighted by Augusta Utilities during the project planning meetings.

As previously mentioned, the goal of Augusta Utilities is to develop a complete field data editing procedure through which workorder management data and GIS data can be integrated and distributed to field crews. By migrating data into the geodatabase it will be possible to either manage checkouts of the geodatabase to ArcPad, or take the geodatabase into the field for direct editing. To maximize this capability, field devices will be necessary that offer more memory and processor capability than the current Geo XT handheld GPS units have. For fully capable field editing of geodatabases WKD utilizes tablet PCs and ruggedized laptop computers. With storage capacity for large datasets such as cadastral data and aerial photography, combined with the ability to collect GPS data directly in the geodatabase using the GPS Analyst extension for ArcGIS, these units give field operators all

of the power and capability of an office-based GIS workstation, at their fingertips in the field. Augusta Utilities has indicated that providing the fully functional capabilities of field editing is first a priority for the water utility. To address this need, WKD is proposing the purchase of ruggedized laptop or tablet PC running ArcGIS desktop with ArcView Licensing for a pilot deployment. In addition the GPS Analyst extension for ArcGIS will enable the collection of GPS data directly in the geodatabase eliminating the need to convert data from shapefiles into the geodatabase and allowing full "in-the-field" capability from the geodatabase. GPS Analyst also enhances the ability to navigate to selected features in the field which becomes a useful tool for utility crews deployed for system maintenance. Collection of GPS data using the Toughbook or tablet PC can also be integrated with the use of any GPS receiver. For example the Trimble Pathfinder XC receiver which is a low cost CompactFlash card-based GPS receiver that works in the CompactFlash card slot of any field computer delivers an all in one solution.

WKD proposes to work with Augusta Utilities to spec out the necessary hardware and software for these field data computers. WKD is not a reseller of hardware or software so this proposal does not include exact fees for hardware or software. Appendix 1 of this proposal provides a list of recommended hardware and software with cost estimates based on advertised retail pricing. WKD will provide services for recommending hardware and software as well as configuring and training Augusta Utilities staff in the workflow and usage of the equipment under terms and conditions of the not to exceed portion of this proposal.

Phase 6: Training

WKD will provide two days of onsite training as requested. A minimum of one day of training is suggested following completion of the tasks for Phase 3. Additionally one day of training for field personnel prior to launch of the completed workflow and data maintenance protocol will be provided. Additional training may be requested at any time by Augusta Utilities and can be provided under the not to exceed portion of this proposal.

The following project budget is provided for your consideration:

Phase 1: Project Coordination and Data Model Development	\$4,644.00
Project Initialization meeting / Data model workshop	
Data model development	
Project coordination	
Phase 2: Geodatabase Conversion	\$9,382.00
Geodatabase development	
Conversion of existing water and sewer data to geodatabase	

Phase 3: Geodatabase Maintenance Workflow Development ArcPad application development Project Workflow Reference manual	\$7,772.00
Phase 4: Custom Tool Development and Field Deployment	\$50,000.00*
Phase 5: Training Two days of onsite training for Augusta Utilities Staff	\$1,854.00
Total Project Cost	\$73,652.00*

*On-call Services not to exceed amount of \$50,000.00. Scope and deliverables to be agreed upon as specific needs arise.

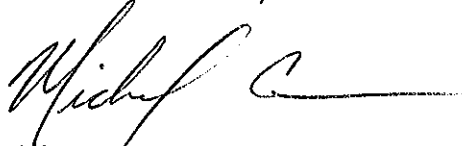
Additional Services

Web Ex Training – WKD will provide Web Ex training sessions for Augusta Utilities staff at the rate of \$95 / hour plus the Web Ex connection fee which is \$.33 / minute / user.

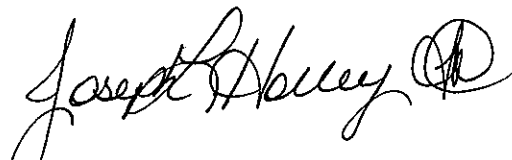
Please acknowledge acceptance of this proposal and we will prepare a contract for your acceptance and authorization to proceed with the scope of work included. We appreciate the opportunity to assist Augusta Utilities with this project. Please give us a call if there are any questions.

Sincerely,

W. K. Dickson & Co., Inc.



Michael Cameron
Project Manager



Joseph L. Holley, PLS, PE
Client Manager

Appendix 1

Recommended Hardware and Software

GPS Integration Extension for ArcGIS

Retail Price: \$2,000-\$3,500

Intended Use: GPS integration extensions run with ArcGIS software on a field computer or desktop to edit, analyze and view GPS data in the geodatabase. These extensions also have built-in functionality for differentially correcting GPS data for increased accuracy.

Ruggedized Laptop or Tablet PC

Retail Price: \$2,500-\$4,000

Intended Use: Field computers allow the maximum capability for viewing, editing and analyzing GIS data in the field. In addition, the increased storage and processing capacity of field computers enables large datasets such as aerial photography, cadastral data and complex geodatabases to be utilized in the field. Field computers will be a critical part of integrating workorder management and GIS data for field users as well as providing the ability to take the geodatabase into the field for editing.

Appendix 2
Hourly Rate Schedule for On-Call GIS Services

W.K. DICKSON & CO., INC.
2006 RATE SCHEDULE FOR GIS SERVICES

LABOR

Principal	\$ 180.00/hr.
Project Manager	\$ 135.00/hr.
Senior GIS Analyst	\$ 115.00/hr.
GIS Analyst / Programmer	\$ 95.00/hr.
GIS Technician	\$ 75.00/hr.
Administrative Assistant	\$ 50.00/hr.

EXPENSES

Reproduction:	
♦ Xerox	Cost
♦ Blacklines	Cost
♦ Mylars	Cost
♦ Sepias	Cost
Mileage	IRS Rate (currently \$0.445/mile)
Telephone, Postage	Cost
Travel (Meals/Lodging)	Cost
Subconsultants	Cost + 10%



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Consulting Fees for WK Dickson**

DATE: January 12, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



Augusta Utilities Department

N. Max Hicks, P.E., R.L.S., Director

Wes Byne, P.E., Assistant Director

Engineering and Construction Division
360 Bay Street, Suite 180
Augusta, Georgia 30901
(706) 312-4132 Fax (706) 312-4133
www.augustaga.gov

To: Geri Sams, Director Procurement

From: Wes Byne

Re: WK Dickson, GIS Services Proposal

Ms. Sams,

AUD has presented an agenda item to the Commission for professional services for Geographic Information Systems (GIS) dataset and tool development. AUD uses GIS and Global Positioning Systems (GPS) to locate and inventory water and sewer assets, and has over \$100,000.00 in electronic software and hardware for these collection efforts. We have over 4000 electronic and paper map sheets in our records, and have inventory buried in the City over 125 years old. Accurately identifying these assets is crucial to our success in generating a usable asset management system to properly budget resources for future replacement work.

AUD met WK Dickson's staff while reviewing firms for the 2004 bond projects. They submitted qualifications and were selected for a small waterline to test the firm's abilities. Subsequently, they presented a GIS/GPS services seminar to Augusta to showcase their firm's capabilities. Based on this and subsequent discussions, it became apparent that WK Dickson had appropriate staff who were technically capable of developing and implementing a proper GIS/GPS data collection effort. AUD had spent the previous 6 months internally developing tools and best practices but had reached the limits of internal development possible given the complexity of the new tools. AUD and WK Dickson held several meetings to discuss and develop a probable scope, and WK Dickson submitted a proposal based on those meetings.

The proposal is for \$73,652.00 for the development of water and sewer geodatabases, data flow mapping, needs analysis, and then custom tool development. AUD's main GIS vendor is Environmental Research Systems Institute (ESRI), which is the same vendor that the City IT department uses. During the submission of the proposal, WK Dickson indicated that much of the functionality that AUD requires is available through ESRI's website and software development forums, and that they would work to locate and customize these resources for AUD. This would eliminate AUD developing tools that were already developed for other applications, which is a common problem in software contracts. This indicated a good-faith effort by WK Dickson to maximize return from our investment. This portion of the contract accounts for approximately 70% of the funds requested. Furthermore, this contract provides defined deliverables for the geodatabase development and will speed integration of our work order management system with our GIS, and will provide needed tools for our asset management program.

If you have any additional questions regarding this contract, please contact me.

Thanks,

A handwritten signature in black ink, appearing to read "Wes Byne".

Wes Byne

cc: Max Hicks



Engineering Services Committee Meeting

2/6/2007 1:00 PM

Approve Water Line Construction to improve service along Tobacco Rd Corridor

Department: Utilities

Caption: Approve Water Line Agreement to construct a 12" water line through Fairington subdivision to serve additional growth along Tobacco and Windsor Spring Rds.

Background: Augusta Utilities has approximately \$1.25 million in funding in the Windsor Spring Rd splost account to construct a 12" waterline and improve a sewerline in the right-of-way when Windsor Spring Rd is widened. As residential development has accelerated in that corridor, the need for additional waterlines has developed. The area is served by two different pressure systems, and the higher pressure system is required to provide sufficient water supply to the area. AUD has developed an approach to construct this line in three phases that would provide this water line to the corridor at a reasonable price to Augusta, and ahead of the current construction schedule. Nordahl Homes, Inc. submitted a residential development plan which was only partially approved due to lack of Augusta water infrastructure and capability in the development. As AUD worked to develop a plan to bring infrastructure to the area ahead of the Windsor Spring Rd project, AUD and Nordahl met and discussed a cost-sharing approach to install the waterlines. The proposed waterline route would utilize a new utility corridor, donated by Nordahl and a separate property owner, and cost-sharing in areas where they had currently proposed to install waterlines. The route would begin at the Tobacco Rd tank, and travel overland to Kevin Dr in Fairington subdivision, and then proceed through the new utility corridor, through Nordahl's development to Diamond Lakes Park. The line would be constructed in three phases: the first from the Tobacco Rd tank to the edge of Fairington neighborhood, the second through the new utility corridor, and the third through the proposed residential development. Nordahl worked with their utility contractor, Haire Utilities, Inc., and submitted an

estimate for the construction of approximately 1600 feet of 12” ductile iron (DIP) water line and associated valves, fittings, testing, and erosion control through the new utility corridor. This construction contract will bring the higher pressure system from Fairington subdivision to Diamond Lakes park. Additionally, Southern Partners has been tasked with providing an engineering route to connect the Tobacco Rd tank with this water line, and AUD will solicit pricing to complete that portion of the line once the design is complete. Additionally, Nordahl, Inc. and AUD propose to cost-share to construct the portion of the line through their residential development. The two remaining sections of water line will be approved under future agenda items. This will provide improved water service to the Windsor Spring Rd area between Tobacco and Willis Foreman Rds ahead of the currently proposed schedule.

Analysis:	AUD has reviewed the proposed pricing and found it to be consistent with the average pricing information that AUD retains for bid analysis. The items are within 10% of the average price for all projects.
Financial Impact:	Approximately \$64,989.00 from the SPLOST Fund, under account number 324-04-3510/202-63-4766 would be used to pay for the construction of this phase of the water line.
Alternatives:	There is no alternative.
Recommendation:	Approve Water Line Agreement to Construct a 12” water line through Fairington subdivision to serve additional growth along Tobacco and Windsor Spring Rds.
Funds are Available in the Following Accounts:	324-04-3510/202-63-4766

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.**

Clerk of Commission

To: Russell Thies

312-4133

HAIRE UTILITIES INC.
P.O. BOX 487
APPLING, GEORGIA 30802
(706)831-4200
FAX(706)541-1735

December 13, 2006

ESTIMATE

To: Nordahl Homes Inc.

Attn: Mr. Nathan Youngblood

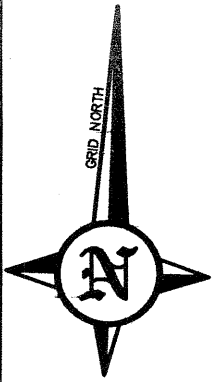
Fax No: (706)860-6390

From: Dee Haire

Project: Offsite Water for South Hampton

1. 1,640 LF 12" DIP @ \$28.00 pr lf	\$	45,920.00
2. 1 Cap and Block		200.00
3. 15 Joint Restraints @ \$95.00 each		1,425.00
4. 1 (one) 45 bend		600.00
5. 1 (one) 22 bend		600.00
6. 1 (one) 90 bend		650.00
7. 2 (two) 12" Valves		3,000.00
8. 1 Water Service		550.00
9. Testing		2,500.00
10. Clearing 1.2 acres		5,544.00
11. Grassing 1.2 acres		1,500.00
12. Silt Fence		2,500.00
Total Estimate	\$	64,989.00

FAIRINGTON 12" WATERMAIN



- CAUGHMAN -

PROPOSED
12" WATERMAIN

TANK

TOBACCO RD

BROXTON CT

KEVIN RD

MICHAEL PL

ALLEDALE CT N

LINCOLNTON PW

LINCOLNTON PW

SYLVANIA CT S

WINDSOR SPRING RD

MIKEY CT

TEAKWOOD DR

COUNTRY LN

MICHAEL PL

ELaine CT

SPIRIT CREEK RD

SPIRIT CREEK RD

- RICHMOND CO. BOARD OF EDUCATION -

- NORDAHL -

PROPOSED
12" WATERMAIN

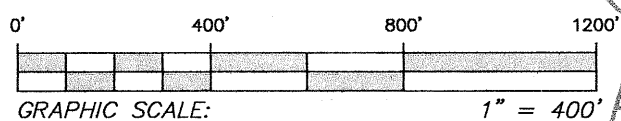
- SOUTHAMPTON, SEC. 1 -

TRAVIS ST

WINDSOR SPRING RD

INVERNESS DR

PAR-CHAT ST





Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Water Line Cost Sharing Agreement to Construct a 12" Water Line**

DATE: January 12, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



UTILITIES DEPARTMENT

N. Max Hicks, PE
Director

MEMORANDUM

TO: Geri Sams, Procurement Director

FROM: N. Max Hicks, PE, Director Utilities Department *N. Max Hicks*

DATE: January 17, 2007

SUBJECT: Water Line Cost Sharing Agreement to Construct a
12" Water Line through Fairington Subdivision to serve additional
growth along Tobacco Road and Windsor Spring Road.

The area along Windsor Spring Road south of Tobacco Road continues to have residential growth which creates a demand for an increased supply of water to that area. The Augusta Utilities Department has funds in SPLOST for water and sewer improvements in the Windsor Spring Road Corridor in conjunction with the roadway improvements under the same SPLOST issue. We have an opportunity to work with a developer who will be constructing a new subdivision on the west side of Windsor Spring Road between Tobacco Road and Diamond Lakes recreation area. We have negotiated with the developer to install a 12" line in the subdivision that will serve to bring additional water into the area from Tobacco Road. The Augusta Utilities Department will pay the difference in cost between a 12" line and the 8" or 10" lines the developer planned to put in the streets where the 12" line will be located. In that way we will get the 12" line at a reduced cost to AUD. We will inspect the construction of the line just as we will inspect all the lines in the new subdivision since they will be deeded to Augusta for operation and maintenance upon completion of the subdivision and its 18 month warranty period for water lines. This agenda item will get the needed additional water supply to the Windsor Spring Road Corridor at a reduced cost and with quicker delivery.

NMH:arm



Engineering Services Committee Meeting
2/6/2007 1:00 PM
Augusta Canal FERC Licensing Process - SHPO Agreement

Department:	Utilities
Caption:	Authorize the execution of an agreement with FERC, Georgia State Historic Preservation Office, and the South Carolina Historic Preservation Office.
Background:	Augusta is in the process on having the Augusta Canal licensed through the Federal Energy Regulatory Commission. This process may include agreements with varies state agencies, federal agencies and independent environmental focus groups. This agenda item is such a proposed agreement between Augusta, FERC, Georgia State Historic Preservation Office, and the South Carolina Historic Preservation Office. Attached to the agenda item as backup is the agreement which has been provided through FERC. The Augusta Canal is listed on the National Registrar as a Historic Landmark District. Being that Augusta Canal FERC License 11810 project area is within the Historic Landmark District, the attached agreement is required by the license process. The agreement includes principles and procedures of historic properties.
Analysis:	Attached to the agenda item is an agreement between Augusta, FERC, Georgia State Historic Preservation office, and the South Carolina Historic Preservation Office.
Financial Impact:	No funds are required for this agenda item.
Alternatives:	No alternatives are recommended.
Recommendation:	We recommend the Commission authorize the execution of the agreement between FERC, Georgia State Historic Preservation Office, and the South Carolina Historic Preservation Office.

**Funds are
Available in the
Following
Accounts:**

No funds are required for this agenda item.

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**

FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON, D.C. 20426

December 18, 2006

OFFICE OF ENERGY PROJECTS

Project No. 11810-004 – Georgia and
South Carolina
Augusta Canal Project
City of Augusta

Don Klima or Representative
Advisory Council on Historic Preservation
The Old Post Office Building, Suite 803
1100 Pennsylvania Avenue, NW
Washington, D.C. 20004

Rebekah Dobrasko or Representative
Review and Compliance Coordinator
Archives & History Center
8301 Parklane Road
Columbia, SC 29223

Mr. Max Hicks, Director or Representative
Utilities Department
360 Bay Street, Suite 180
Augusta, GA 30901

Elizabeth Shirk or Representative
Historic Preservation Division
Department of Natural Resources
34 Peachtree Street, NW
Suite 1600
Atlanta, GA 30303

**Subject: Final Programmatic Agreement for the Augusta Canal Project, FERC
Project No. 11810-004 and Georgia State Historic Preservation Office
review number HP981207-001**

Programmatic Agreement
Project No. 11810-004 – Georgia and South Carolina

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TO THE PARTIES ADDRESSED:

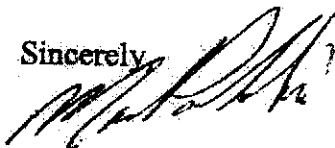
Enclosed for your signature is the final Programmatic Agreement (PA) for the Augusta Canal Project No. 11810-004. Ms. Ann F. Miles, Director, Division of Hydropower Licensing has signed the Programmatic Agreement. In order to incorporate the PA into any license issued for the project, we would like the signing process completed by **January 19, 2006**.

Please sign the appropriate signature page, make a copy for yourself, and return only the page bearing your original signature to Janet Hutzel via overnight delivery at the following address: Janet Hutzel, Federal Energy Regulatory Commission, 888 First Street N.E., Mail Stop 14.2, Room 61-14, Washington, DC 20426.

Upon receipt of the signatures, Ms. Hutzel will submit the final PA (containing all of the original signatures) to the Advisory Council on Historic Preservation (Advisory Council), where it will be permanently reposed. When the Advisory Council receives the original with all the signatures, Ms. Hutzel will provide a copy of the PA to you.

If you have any questions, please contact Ms. Hutzel at 202-502-8675, or by e-mail at janet.hutzel@ferc.gov.

Sincerely,



Mark Pawlowski, Chief
Hydro East Branch 2

Enclosure: Final Programmatic Agreement

**FINAL PROGRAMMATIC AGREEMENT
AMONG
THE FEDERAL ENERGY REGULATORY COMMISSION,
THE GEORGIA STATE HISTORIC PRESERVATION OFFICER,
AND THE SOUTH CAROLINA STATE HISTORIC
PRESERVATION OFFICER FOR MANAGING HISTORIC PROPERTIES
THAT MAY BE AFFECTED BY A LICENSE ISSUING TO
THE CITY OF AUGUSTA
FOR THE OPERATION AND MAINTENANCE OF THE
AUGUSTA CANAL PROJECT
IN RICHMOND AND COLUMBIA COUNTIES, GEORGIA AND
EDGEFIELD COUNTY, SOUTH CAROLINA**

WHEREAS, the Federal Energy Regulatory Commission or its staff, (hereinafter, "Commission"), proposes to issue an original license to the city of Augusta (hereinafter, "licensee") to operate and maintain the Augusta Canal Project, Project No. 11810 (hereinafter, "project"),¹ as authorized by Part I of the Federal Power Act, 16 U.S.C. sections 791(a) through 825(r), as amended; and,

WHEREAS, the Commission has determined that issuing such a license may affect properties included in or eligible for inclusion in the National Register of Historic Places (hereinafter, "historic properties"); and

WHEREAS, Appendix A of this Programmatic Agreement provides a description of the project, historic properties identified as of the date of this Programmatic Agreement, and anticipated effects as of the date of this Programmatic Agreement; and

WHEREAS, the Commission has consulted with the Georgia State Historic Preservation Officer (hereinafter, "Georgia SHPO") and the South Carolina Historic Preservation Officer (hereinafter, "South Carolina SHPO") pursuant to 36 C.F.R. Part 800.14(b) of the Advisory Council on Historic Preservation's (hereinafter, "Advisory Council") regulations (36 C.F.R. Part 800) implementing section 106 of the National Historic Preservation Act (16 U.S.C. 470F; hereinafter, "section 106"); and

¹ The project has no hydroelectric generating facilities and would produce no power.

WHEREAS, the licensee has participated in the consultation leading to the execution of this Programmatic Agreement and is invited to concur in it; and

WHEREAS, the Commission will require the licensee to implement the provisions of this Programmatic Agreement as a condition of issuing an original license for the project; and

NOW THEREFORE, the Commission, the Georgia SHPO, and the South Carolina SHPO agree that the project will be administered in accordance with the following stipulations in order to satisfy the Commission's section 106 responsibilities during the term of the project's license.

Stipulations

The Commission will ensure that, upon a license issuing for this project, the licensee implements the following stipulations. All stipulations that apply to the licensee will similarly apply to any and all of the licensee's successors. Compliance with any of the following stipulations does not relieve the licensee of any other obligations it has under the Federal Power Act, the Commission's regulations, or its license.

I. HISTORIC PROPERTIES MANAGEMENT PLAN

- A. In April 2004, the licensee submitted the *Draft Historic Properties Management Plan Augusta Canal Hydropower Project Richmond and Columbia Counties, Georgia and Edgefield County, South Carolina* (hereinafter; "draft HPMP") for the project to the Georgia SHPO and the South Carolina SHPO. Within one year of a license issuing for this project, the licensee will file for the Commission's approval a final HPMP specifying how historic properties will be managed in the project's Area of Potential Effect (hereinafter, "APE"),² as defined in 36 CFR Part 800.16(d), during the term of the license. During development of the final HPMP, the

² The Augusta Canal Project's APE is the Augusta Canal and Industrial District National Historic Landmark District boundaries excluding the city of Augusta's Raw Water Pumping Station, associated facilities, and pipes, but including archeological sites 9RI1158 and 9RI1172. This APE includes all facilities necessary to operate the project, including the Augusta Diversion Dam, the Augusta Diversion Dam Impoundment, and the first level of the Augusta Canal.

licensee will consult with the Georgia SHPO and the South Carolina SHPO, as defined in 36 CFR Part 800.2(c). Also during the development of the final HPMP, the licensee will take into account any comments provided on the draft HPMP. On June 9, 2004, the Georgia SHPO concurred with the draft HPMP's identification and evaluation of effects to historic properties, as well as with their proposed management. On June 9, 2004, the South Carolina SHPO stated that the draft HPMP outlines an acceptable process of consultation to address any potential adverse effects on the two historic properties located in South Carolina.

- B. The licensee will take into account "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines" (Federal Register, September 29, 1983, Vol. 48, No. 190, Part IV, pp. 44716-44740; hereinafter, "Secretary's Standards") and the "Guidelines for the Development of Historic Properties Management Plans for FERC Hydroelectric Projects"³ while developing the final HPMP. The final HPMP will be developed by, or developed under, the direct supervision of a person or persons who meet, at a minimum, the professional qualifications standards for architectural history and archeology in the Secretary's Standards (48 FR 44738-39). To develop the final HPMP, the individual or individuals need not possess both qualifications.
- C. The final HPMP will, at a minimum, include principles and procedures to address the following:
1. completion, if necessary, of identification of historic properties, within the project's APE;
 2. continued use and maintenance of historic properties;

³ This document was issued jointly by the Commission and the Advisory Council on May 20, 2002. The document is available at <http://www.ferc.gov/industries/hydropower/gen-info/guidelines/hpmp.pdf>.

3. treatment of historic properties threatened by project-induced shoreline erosion,⁴ other project-related ground-disturbing activities, and vandalism;
4. mitigation of unavoidable adverse effects on historic properties;
5. treatment and disposition of any human remains that may be discovered, taking into account any applicable state laws and the Advisory Council's "Policy Statement Regarding Treatment of Human Remains and Grave Goods" (September 27, 1988, Gallup, NM);
6. discovery of previously unidentified properties during project operations;
7. public interpretation of the historic and archaeological values of the project;
8. list of activities not requiring consultation with the Georgia SHPO and the South Carolina SHPO, as appropriate; these activities would have little or no potential to affect historic properties; and
9. coordination with the Georgia SHPO and the South Carolina SHPO during implementation of the HPMP.

II. HPMP REVIEW AND IMPLEMENTATION

- A. The licensee will submit the final HPMP, along with documentation of the views of the Georgia SHPO and the South Carolina SHPO to the Commission for review and approval.
- B. If the Georgia SHPO and the South Carolina SHPO concur with the final HPMP, and the Commission determines that the final HPMP is adequate, the Commission will forward a copy of the final HPMP along with the

⁴ Project-induced shoreline erosion does not include shoreline erosion attributable to flood flows or phenomena, such as wind driven wave action, erodible soils, and loss of vegetation due to natural causes.

views of the Georgia SHPO and the South Carolina SHPO to the Advisory Council for filing.

- C. If the Georgia SHPO and/or the South Carolina SHPO have not concurred with the final HPMP, or the Commission finds the final HPMP inadequate, the Commission will consult with the licensee, the Georgia SHPO, and the South Carolina SHPO to seek agreement on the final HPMP. If concurrence is not reached within 30 days, the Commission will request that the Advisory Council enter into consultation to seek agreement on the final HPMP.
 - 1. If agreement is reached on the final HPMP, the Commission will forward a copy of the revised final HPMP to the Advisory Council for filing.
 - 2. If agreement on the final HPMP cannot be reached among the Commission, the Georgia SHPO, and the South Carolina SHPO, the licensee, and the Advisory Council; the Commission, the Georgia SHPO, or the South Carolina SHPO will request that the Advisory Council comment pursuant to Stipulation IV.B, of this Programmatic Agreement; or the Advisory Council may terminate consultation and comment on its own.
- D. The licensee will file an annual report with the Georgia SHPO and the South Carolina SHPO on activities conducted under the implemented HPMP. The report will contain a detailed summary of any cultural resources work conducted during the preceding year; if no work was completed, a letter from the licensee will be prepared to that effect, and will satisfy the intent of this stipulation.

III. INTERIM TREATMENT OF HISTORIC PROPERTIES

- A. Pending review and implementation of the final HPMP pursuant to Stipulation II, the licensee will consult with the Georgia SHPO and/or the South Carolina SHPO, as appropriate, regarding the impact of the following:
 - 1. all project-related activities, including recreational developments, that require ground-disturbance;

2. non-routine maintenance, new construction, demolition, or rehabilitation of project-related structures that may be National Register-eligible;
 3. project-induced shoreline erosion of archaeological sites not attributable to flood flows or phenomena, such as wind-driven wave action, erodible soils, and loss of vegetation due to natural causes.
- B. Consultation will be in accordance with 36 CFR Part 800.4 and 800.5, with the licensee acting as the Agency Official. If the licensee and the appropriate SHPO agree that the activity will not adversely affect properties that may be National Register-eligible, the licensee may proceed in accordance with any agreed-upon treatment measures or conditions.
- C. If either the licensee or the appropriate SHPO determines that the activity will have an adverse effect, and the affected property is a National Historic Landmark, the licensee will submit the matter to the Commission, which will initiate the process set forth at 36 CFR Part 800.6. Otherwise, the licensee and the appropriate SHPO will consult to develop a strategy for avoiding or mitigating such adverse effects. If the licensee and the appropriate SHPO can reach agreement, the licensee will implement the agreed-upon strategy. If they disagree, the licensee will submit the matter to the Commission, which will initiate the process set forth at 36 CFR Part 800.6 and 800.7(a) through (c)(3).

IV. DISPUTE RESOLUTION

- A. If at any time during implementation of this Programmatic Agreement and the resulting final HPMP, the Georgia SHPO, the South Carolina SHPO, the licensee, or the Advisory Council objects to any action or any failure to act pursuant to this Programmatic Agreement or the final HPMP, they may file written objections with the Commission.
1. The Commission will consult with the objecting party, and with other parties or consulting party, as appropriate, to resolve the objection.

2. The Commission may initiate on its own such consultation to remove any of its objections.
- B. If the Commission determines that the objection cannot be resolved, the Commission will forward all documentation relevant to the dispute to the Advisory Council and request that the Advisory Council comment. Within 30 days after receiving all pertinent documentation, the Advisory Council will either:
1. provide the Commission with recommendations, which the Commission will take into account in reaching a final decision regarding the dispute; or
 2. notify the Commission that it will comment pursuant to 36 CFR Part 800.7(c)(1) through (3) and section 110(1) of the National Historic Preservation Act, and proceed to comment.
- C. The Commission will take into account any Advisory Council comment, provided in response to such a request, with reference to the subject of the dispute, and will issue a decision on the matter. The Commission's responsibility to carry out all actions under this Programmatic Agreement that are not the subject of dispute will remain unchanged.

V. AMENDMENT AND TERMINATION OF THIS PROGRAMMATIC AGREEMENT

- A. The Commission, the Georgia SHPO, the South Carolina SHPO, or the licensee, may request that this Programmatic Agreement be amended, whereupon these parties will consult in accordance with 36 CFR Part 800.14(b), to consider such amendment.
- B. The Commission, the Georgia SHPO, or the South Carolina SHPO may terminate this Programmatic Agreement by providing 30 days written notice to the other parties, provided that the Commission, the Georgia SHPO, the South Carolina SHPO, and the licensee consult during the 30-day notice period in order to seek agreement on amendments or other actions that would avoid termination. In the event of termination, the Commission will comply with 36 CFR Part 800.3 through 800.7(c)(3), with regard to individual actions covered by this Programmatic Agreement.

Execution of this Programmatic Agreement and subsequent implementation is evidence that the Commission has satisfied its responsibilities pursuant to section 106 of the National Historic Preservation Act, as amended, for all individual actions carried out under the license. Provided, however, that unless and until the Commission issues a license for the project and this Programmatic Agreement is incorporated by reference therein, this Programmatic Agreement has no independent legal effect for any specific license applicant or project.

Programmatic Agreement

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Project No. 11810-004 – Georgia and South Carolina

FEDERAL ENERGY REGULATORY COMMISSION

By: _____

Ann F. Miles

Ann F. Miles, Director

Division of Hydropower Licensing

Date: 12-18-06

Programmatic Agreement
Project No. 11810-004 – Georgia and South Carolina

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GEORGIA HISTORIC PRESERVATION DIVISION

By: _____

Date: _____

W. Ray Luce,

Division Director and Deputy State Historic Preservation Officer

Programmatic Agreement
Project No. 11810-004 – Georgia and South Carolina

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SOUTH CAROLINA STATE HISTORIC PRESERVATION OFFICE

By: _____
Mary W. Edmonds,
Deputy State Historic Preservation Officer

Date: _____

Programmatic Agreement
Project No. 11810-004 – Georgia and South Carolina

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CONCUR: CITY OF AUGUSTA

By: _____

Date: _____

Appendix A to:

**PROGRAMMATIC AGREEMENT AMONG THE FEDERAL ENERGY
REGULATORY COMMISSION AND THE NORTH CAROLINA STATE
HISTORIC PRESERVATION OFFICER, FOR MANAGING HISTORIC
PROPERTIES THAT MAY BE AFFECTED BY A LICENSE ISSUING TO THE
CITY OF AUGUSTA FOR THE OPERATION AND MAINTENANCE OF THE
AUGUSTA CANAL PROJECT IN RICHMOND AND COLUMBIA COUNTIES,
GEORGIA AND EDGEFIELD COUNTY, SOUTH CAROLINA**

PROJECT, HISTORIC PROPERTIES, AND ANTICIPATED EFFECTS

The purpose of this appendix is to specify the factual basis of the Programmatic Agreement. Here, relevant facts concerning the project and modifications to the project proposed by the licensee under the Commission's licensing procedures are reviewed; historic properties subject to the Programmatic Agreement's stipulations are, in part, identified; and the anticipated effects of the license issuing are disclosed.

On January 30, 2003, the licensee filed an application with the Commission for an original license to operate and maintain the existing Augusta Canal Project, FERC No. 11810, located adjacent to the Savannah River, Richmond County, Augusta, GA. The licensee does not propose to construct hydroelectric generation facilities and the project would produce no power. The licensee proposes to license the parts of the Augusta Canal system which pass flows for use by three existing hydroelectric projects located in the Augusta Canal. These hydroelectric projects are the 1.2-megawatt (MW) Enterprise Mill Project (Project No. 2935), the 2.475-MW Sibley Mill Project (Project No. 5044), and the 2.05-MW King Mill Project (Project No. 9988). On June 20, 2003, the licensee filed an amendment to its application for license. The amendment included a proposal for providing flows in the bypassed reach of the Savannah River, and a revised operations and monitoring plan.

In April 2004, the licensee submitted the *Draft Historic Properties Management Plan Augusta Canal Hydropower Project Richmond and Columbia Counties, Georgia and Edgefield County, South Carolina* for the project to the Georgia SHPO and the South Carolina SHPO. On June 9, 2004, the Georgia SHPO concurred with the draft HPMP's identification and evaluation of effects to historic properties as well as with their proposed management. Also on June 9, 2004, the South Carolina SHPO stated that the draft HPMP outlines an acceptable process of consultation to address any potential adverse effects on the two historic properties located in South Carolina.

We, the parties to the Programmatic Agreement, anticipate that issuing the licensee a new license to continue operating and maintaining the existing project may pose adverse effects to historic properties. We anticipate that any adverse effects can be mitigated by executing a Programmatic Agreement requiring the licensee to develop and implement a final HPMP, and incorporating the executed Programmatic Agreement into any original license that the Commission issues.

I. THE PROJECT

A. Existing Project Facilities

The project consists of the following: (1) the 1,666-foot-long, and 11.5-foot-high stone-masonry Augusta Diversion Dam; (2) the 2,250-foot-long, 190-acre at normal water surface elevation of 160 m.s.l., Savannah River Impoundment located between Stevens Creek Dam and the Augusta Diversion Dam; and (3) the first level of the Canal, which extends about seven miles between the Augusta Diversion Dam and the Thirteenth Street gates. Structures included in the first level of the Canal include; (1) the canal head gates consisting of four steel and nine wooden, motor operated gates for admitting flow to the Canal; (2) a one hundred-foot-long and 15-foot-wide navigation lock; (3) the Reed Creek waste gate; (4) the Rock Creek waste gate; (5) the Long Gate Spillway and pedestrian bridge; (6) the Tin House gates; (7) the Bulkhead gates consisting of eight gate bays, one navigation bay, and a 196-foot-long pedestrian bridge spanning the Canal; (8) Weigles Gate which consists of a single steel gate which discharges to Hawk's Gully; and (9) the Thirteenth Street Headgates consisting of five steel gates.

B. Proposed Project Operations

Currently there are no operational requirements or minimum flows required for the Augusta Diversion Dam. The project has no storage capacity and operates run-of-river. The headgates at the entrance of the Augusta Canal are manually set to provide a uniform flow in the Augusta Canal adequate to meet Augusta Canal user needs. Changes in Augusta Canal gate configuration are infrequent. Water needs include flows for the licensee's municipal water supply, the Sibley, King, and Enterprise Mill hydropower projects, and for aesthetics and recreation. Excess flows are typically passed over the Augusta Diversion Dam, but there have been occasions in the past when all the water in the Augusta Canal was not utilized and flows passed out the Thirteenth Street gates located at end of the Augusta Canal, as well as the Long Gate Spillway, and Tin House Gates located along the Augusta Canal.

Since the 1870's the licensee has had agreements with the three mills on the Augusta Canal to provide water for operation of their hydropower units. In return, the three mills provide revenue to the Augusta Canal Authority which is used to support cultural, historic, and recreational needs on the Augusta Canal.

The theoretical maximum flow capacity of the Augusta Canal is approximately 6,900 cfs. However, due to extensive deposition of sediments and aquatic plants, the actual capacity is much less. The average flow in the Canal over the last twenty years has been about 2,500-2,700 cfs, however the demand for water is seasonal and not all hydropower projects were in operation during all years. The licensee projected the seasonal Augusta Canal water needs through Year 2035. Maximum Canal needs range from 3,656 cfs in Year 2000 (based on the licensee's raw water pumping station needs of 1,041 cfs, 1,024 cfs for Sibley Mill, 881 cfs for King Mill, 560 cfs for Enterprise Mill, 100 cfs for a kayak course, and a 50 cfs aesthetic flow) to 4,353 cfs in year 2035 (based on the licensee's raw water pumping station needs of 1,738 cfs, 1,024 cfs for Sibley Mill, 881 cfs for King Mill, 560 cfs for Enterprise Mill, 100 cfs for a kayak course, and a 50 cfs aesthetic flow).

On January 13, 2006, the licensee provided the National Marine Fisheries Service (NOAA Fisheries) and the United States Fish and Wildlife Service (FWS) with a Letter of Intent of Settlement (draft Settlement) which outlines a proposal for project operation, flows, and fishways for the project. On February 3, 2006, and February 7, 2006, NOAA Fisheries and the FWS, respectively, filed signed copies of the draft Settlement. The licensee is currently in the process of finalizing the Settlement. The draft Settlement proposes the following measures for project operations:

a. Aquatic Base Flows

Aquatic base flows would be provided in the Augusta Shoals as listed in Table 1. The licensee would make one flow setting for the Augusta Canal head gates on a daily basis, based on the daily Augusta declaration. There would be no adjustments to the flow setting during a 24 hour period, except to meet flow requirements or during emergencies.

Table 1. Summary of the draft Settlement aquatic base flow regime for the Augusta Shoals (average daily flow in cfs).

Augusta Daily Declaration Flow (Inflows at the Diversion Dam in cfs)	Aquatic Base Flows											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Tier 1 ≥ 5,400	1,900	3,300	3,300	3,300	2,500-1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900
Tier 2 4,500 to 5,399	1,500	2,200	1,800	1,800	1,800	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Tier 3 3,600 to 4,499	1,500	2,000	2,000	2,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Tier 4 <3,600	1,500	1,800	1,800	1,800	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500

b. Monitoring and Compliance

- The draft Settlement describes an Operations Plan which requires the licensee to provide the aquatic base flows 90% (May 16 through January 31) to 95% (February 1 through May 15) of the time during any 60-day rolling period. During the balance of each consecutive 60-day period, the licensee would set a daily average flow no less than 500 cfs below the Aquatic Base Flow. In addition, the quantity of water in the Augusta Canal would not exceed 105% of the daily diversion flow rate for the Augusta Canal.

c. Minimum flows at the Augusta Diversion Dam

- Until such time that fish passage facilities are constructed at project, the licensee proposes a temporary notch in the Augusta Diversion Dam sized to provide a 1,000 cfs minimum flow below the dam (through a combination of leakage and flow through the notch). When fish passage facilities are constructed at the dam, the licensee will provide a permanent notch in the dam to release similar flows.

d. Gauging Equipment

- The licensee proposes to work with the Army Corps of Engineers' (Corps) to provide gauging equipment in the Canal adequate to monitor Canal flows. The FWS

requested that the Georgia Department of Natural Resources (Georgia DNR), South Carolina Department of Natural Resources (South Carolina DNR), NOAA Fisheries, and the FWS also be consulted in developing a flow gauging plan for the Augusta Canal.

e. Provision for future increases in Canal flow demands

- Should the Canal flow demand exceed 4,600 cfs, the licensee proposes to convene a technical committee composed of the Georgia DNR, South Carolina DNR, and licensee to evaluate Augusta Canal flows and make a recommendation to FERC on the need to increase Augusta Canal flows.

C. Licensee's Proposed Environmental Measures

For cultural resources, the licensee proposes to comply with the Georgia SHPO and South Carolina SHPO's recommendations on the Historic Properties Management Plan.⁵

D. Additional Measures Recommended by Commission Staff

Commission staff recommends that the Georgia SHPO also be included as a committee member to evaluate the Augusta Canal flows and make a recommendation to the Commission on the need to increase the Augusta Canal flows should the Augusta Canal flow demand exceed 4,600 cfs.

II. HISTORIC PROPERTIES IDENTIFIED

A. Area of Potential Effects

The Augusta Canal Project's APE is the Augusta Canal and Industrial District National Historic Landmark District boundaries excluding the city of Augusta's Raw Water Pumping Station, associated facilities, and pipes, but including archeological sites 9RI1158 (the Pig Pen site) and 9RI1172. This APE includes all facilities necessary to operate the project, including the Augusta Diversion Dam, the Augusta Diversion Dam Impoundment, and the first level of the Augusta Canal.

⁵ The licensee has also proposed various environmental measures for other environmental resources.

B. The Project as a Historic Property

Beginning in the late 18 century, the city of Augusta became the central cotton market for upper South Carolina and Piedmont Georgia. However, by the middle 19th century the volume of cotton trade had dwindled. To recapture the market on cotton the city of Augusta began construction on the Augusta Canal in 1845 and by 1846 the canal was opened. The Augusta Canal, only seven miles long, was also used to provide limited power to the textile and other mills situated along it.

Between 1874 and 1877, the Augusta Canal was deepened and widened, and the second and third levels were constructed, resulting in a nine-mile-long Augusta Canal which provided a water power capacity of 14,000 horsepower, nearly 23 times the power produced compared to the original Augusta Canal. After the Augusta Canal was expanded, Enterprise, Sibley, and King Mills began textile production and by 1900, the city of Augusta was the leading textile manufacturing city in the South. In addition, in 1885 a raw water pumping station was constructed along the Augusta Canal and served as the one of the licensee's main water supplies.

In 1977, the National Park Service recognized the historic, industrial, and engineering significance of the Augusta Canal and its associated features, and designated the area as the Augusta Canal and Industrial District National Historic Landmark. According to the National Register nomination form, the Augusta Canal is significant because it exhibits Postbellum period Southern industrialization, Southern Canal engineering, and the distinctive architectural styles exhibited by the associated textile mills. In 1996, the Augusta Canal was also designated as a National Heritage Area by Congress. Today, the Augusta Canal continues to operate, furnishing water to the city of Augusta and hydroelectric power to Enterprise, Sibley, and King Mills.

C. Historic Properties Located within the APE and Their Eligibility for Inclusion in the National Register

Table 2 lists the National Register eligible cultural resources that are located within the Augusta Canal Project APE.

Table 2. Cultural Resources in Augusta Canal Project's APE (Source: R.S. Webb. 2004b, modified by staff)

Resource Name	Resource Type	National Register Status
Site 9CB1-Stallings Island	Archaeological Site	National Historic Landmark
Site 9RI158-Pig Pen	Archaeological Site	National Register Eligible
Site 9RI172	Archaeological Site	National Register Eligible
Site 9RI589	Historic Structures Associated With Augusta ACP and Industrial District NHL	National Register Eligible
The Augusta Canal and Industrial District National Historic Landmark	Various Historic Structural and Engineering Resources: a. First and Second levels of the Canal-from Stevens Creek Dam to 12th Street gates; b. 1845-47 Canal Headgate; c. 1874-77 Canal Headgate, dam and Canal lock; d. 1845-1846 Canal dam; e. 1855 concrete fish ladder; f. 1880s Impoundment area; g. Canal gates at the Columbia-Richmond County line; h. Canal Lock Keepers House; i. Granite Stone Quarry; j. Enterprise Mill complex (includes 1848 grist mill); k. Blanche Mill complex; l. Sibley Mill complex; and m. John P. King Mill complex	National Historic Landmark
Charleston & Western Carolina Railroad Bridge	Railroad Bridge	National Register Eligible
Harrisburg-West End	Historic District	Listed on the Nat. Register
Stevens Creek Hydroelectric Project	Dam, Powerhouse, and Associated Structures	National Register Eligible
Site 38ED5	Archaeological Site	National Register Eligible

Site 9CB1 (Stallings Island), which contains stratified remains from the preceramic Late Archaic, the Late Archaic Transitional ceramic phase, and more recent transient occupations, was designated a National Historic Landmark in 1961 for its contribution to the study of the Archaic Period in the Southeast. Since 1997, the site has been owned and protected by the Archaeological Conservancy. Site 9RI158 (Pig Pen Site) is a large prehistoric lithic and ceramic scatter and historic period refuse scatter, while Site 9RI158 contains a high density of cultural features and intact artifact deposits and evidence of occupation from the Paleo-Indian Period through the late 20th century. Site 9RI172 is a disturbed site with prehistoric lithic and ceramic scatter. The primary components of 9RI589 are the structural elements of the historic Augusta Canal lock, headgate, the Augusta Canal itself, associated buildings, and historic landscape elements, all of which are within the Augusta Canal and Industrial District National Historic Landmark. The site also has surface scatter of historic period architectural and domestic refuse.

The Charleston and Western Carolina (C&WC) Railroad Bridge is a steel truss bridge, 60 feet long and approximately 15 feet wide, which was built in 1927 for the C&WC Railroad by the Virginia Bridge & Iron Company (Roanoke, Virginia). The C&WC Railroad Bridge, which was determined eligible for the National Register under Criterion C (Engineering-Railroad Bridges), is a good example of an early 20th century steel truss railroad bridge. The Harrisburg-West End Historic District was listed on the National Register in 1991, and contains a variety of residential, commercial, and institutional building types and is recognized as significant in the areas of architecture, community planning and development, and industry/social history. The district also contains the remains of the 18th century village of Harrisburg and late 19th century housing built for the workers in the nearby textile mills.

In 1991, the dam, powerhouse, lock, and related equipment of the Stevens Creek Hydroelectric Project, located upstream of the Diversion Dam, were determined eligible for the National Register. Site 9CB1, which provides evidence of Late Archaic period habitation, is also located upstream of the Diversion Dam. Both potentially eligible sites are located within the APE for the Stevens Creek Project. The licensee for the Stevens Creek Project, SCE&G, has developed a Historic Properties Management Plan to manage the Stevens Creek Project and the archeological site.

D. Cultural Resources Investigations

As part of the licensee's licensing efforts, the following cultural resources surveys and studies have been conducted within and adjacent to the APE:

Jordan, William R. 2002. *Cultural Resources survey of the Augusta Canal Hydropower Project (FERC No. 11810-000) Richmond and Columbia Counties, Georgia*. Prepared by R.S. Webb & Associates for Augusta, Georgia, ZEL Engineers, and ENTRIX, Inc. September 20, 2002.

R.S. Webb & Associates and ENTRIX. 2004a. *Draft Historic Properties Management Plan Augusta Canal Hydropower Project Richmond and Columbia Counties, Georgia and Edgefield County, South Carolina (Ferc No. 11810-004)*. Prepared by R.S. Webb & Associates and ENTRIX, Inc. for Augusta, Georgia and ZEL Engineers. April 2004.

R.S. Webb & Associates and ENTRIX, Inc. 2004b. *Assessment of Effects Augusta Canal Hydroelectric Project Richmond and Columbia Counties, Georgia and Edgefield County, South Carolina (FERC No. 11810-004)*. Prepared by R.S. Webb & Associates and ENTRIX, Inc. for Augusta, Georgia. May 2004.

III. ANTICIPATED EFFECTS AND MITIGATIVE NEEDS

The proposed issuance of a new license to the licensee for the project could have effects both beneficial and adverse on historic properties in the project's APE.

A. Historic Structures

Inasmuch as the project constitutes part of a National Historic Landmark, issuing the licensee an original license to continue operating the project under the protection afforded by section 106, is generally to be considered a beneficial effect. In itself, however, operating the project under the protections afforded by section 106 does not ensure that no adverse effects would ensue.

Moreover, in the absence of an operation and maintenance plan designed to hold intact the historic integrity of the project, unanticipated adverse effects could occur in the future. Adverse effects could occur to licensed historic project features due to repairs and modifications that may be necessary during the course of project operation. Adverse effects could also inadvertently occur during routine daily activities of the project facilities.

Although the undertaking may adversely affect the historic property, we anticipate that adverse effects can be taken into account by executing a Programmatic Agreement requiring the licensee to develop and implement a final HPMP, and incorporating the

Programmatic Agreement

24

Project No. 11810-004 – Georgia and South Carolina

executed Programmatic Agreement into any new license that the Commission issues. The final HPMP would include guidelines for operating and maintaining the project that would not diminish its National Register eligibility.

B. Previously Undiscovered Historic Properties

Since the project has not been completely evaluated for its archaeological potential, there is a possibility that undiscovered properties could be adversely affected by future changes in project operation. As part of the HPMP, the licensee would consult with the Georgia SHPO and the South Carolina SHPO, as appropriate, prior to any land-clearing or ground disturbing activities to avoid any adverse effects to unknown archaeological sites or historic sites.



**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Augusta Canal FERC Licensing Agreement**

DATE: January 18, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
C/O for 630 Water System-36" Water Main**

Department:	Augusta Utilities Department
Caption:	Approve a proposal from Cranston Engineering Group in the amount of \$72,640.00 to split the 36" design contract into two phases.
Background:	Cranston Engineering Group has submitted a proposal for splitting the proposed water line project into two separate engineering contracts. The first phase of the project will run from Iris Drive to a point on the western edge of the Augusta State University complex. AUD asked for the design to be split in order to expedite the construction of the line and prepare for more robust service to western Augusta.
Analysis:	Splitting the project design into two phases will allow construction of approximately 9,000 linear feet of 36-inch water main in phase one that will bolster the water supply and pressure to Fort Gordon for the peak summer demand.
Financial Impact:	\$72,640.00 from the Bond Issue, under account number 511043410/54212115 80310150/54212115
Alternatives:	Rejection of the submittal will delay the project and we will not meet the required water pressure needed to supply Fort Gordon water system.
Recommendation:	We recommend approving the proposal from Cranston Engineering Group in the amount of \$72,640.00 for splitting the project design into two phases.
Funds are Available in the Following Accounts:	511043410/5212115 80310150/54212115

REVIEWED AND APPROVED BY:

Finance.

Procurement.

Disadvantaged Business Enterprise.

Administrator.

Clerk of Commission

630 Water System Improvements - 36" Water Main
 Bond Project Number: 10150
 CEG Project Number: 2006-0049

8-Nov-06

Additional Phase Cost Breakdown

I. Preliminary Design Phase (Additional Plans and Contract Documents Preparation & Submittal)

Summary

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	5	\$150.00	\$750.00
Project Engineer II	45	\$75.00	\$3,375.00
Cadd Operator II	40	\$60.00	\$2,400.00

Subtotal \$6,525.00

II. Final Design Phase (Additional Plans and Contract Documents Preparation & Submittal)

Summary

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	10	\$150.00	\$1,500.00
Project Engineer II	55	\$75.00	\$4,125.00
Cadd Operator II	40	\$60.00	\$2,400.00

Subtotal \$8,025.00

III. Bidding Phase (Additional Bid)

A. Pre-Bid Meeting

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	4	\$150.00	\$600.00
Project Engineer II	15	\$75.00	\$1,125.00
Total			\$1,725.00

B. Addenda, Questions and Coordination

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	10	\$150.00	\$1,500.00
Project Engineer II	40	\$75.00	\$3,000.00
Cadd Operator II	40	\$60.00	\$2,400.00
Total			\$6,900.00

C. Bid Opening, Bid Tabulation & Recommendation

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	4	\$150.00	\$600.00
Project Engineer II	25	\$75.00	\$1,875.00
Total			\$2,475.00

D. Pre-Construction Meeting

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	8	\$150.00	\$1,200.00
Project Engineer II	25	\$75.00	\$1,875.00
Total			\$3,075.00

Subtotal \$14,175.00

Summary

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	26	\$150.00	\$3,900.00
Project Engineer II	105	\$75.00	\$7,875.00
Cadd Operator II	40	\$60.00	\$2,400.00

Subtotal \$14,175.00

IV. Construction Phase (Additional Contract)

A. Meetings with Owner and Contractor

<u>Personnel Type</u>	<u># Wks.</u>	<u>Hrs/Wk.</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	18	1.5	27	\$150.00	\$4,050.00
Project Engineer II	18	3	54	\$75.00	\$4,050.00
Total					\$8,100.00

B. Construction Observation

<u>Personnel Type</u>	<u># Wks.</u>	<u>Hrs/Wk.</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	18	1	18	\$150.00	\$2,700.00
Project Engineer II	18	4	72	\$75.00	\$5,400.00
Total					\$8,100.00

C. Construction Administration (Reviewing Payment Applications, Miscellaneous Coordination, Etc.)

<u>Personnel Type</u>	<u># Wks.</u>	<u>Hrs/Wk.</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	18	1	18	\$150.00	\$2,700.00
Project Engineer II	18	6	108	\$75.00	\$8,100.00
Cadd Operator II	18	2	36	\$60.00	\$2,160.00
Total					\$12,960.00

D. Submittals

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	8.5	\$150.00	\$1,275.00
Project Engineer II	80	\$75.00	\$6,000.00
Total			\$7,275.00

E. Record Drawings

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	4	\$150.00	\$600.00
Project Engineer II	40	\$75.00	\$3,000.00
Cadd Operator II	65	\$60.00	\$3,880.00
Total			\$7,480.00
Subtotal			\$43,915.00

Summary

<u>Personnel Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Principal Engineer	75.5	\$150.00	\$11,325.00
Project Engineer II	354	\$75.00	\$26,550.00
Cadd Operator II	101	\$60.00	\$6,040.00

Subtotal \$43,915.00

Grand Total \$72,640.00



TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
C/O for 630 Water System - 36" Water Main**

DATE: January 24, 2007

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of 0% for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is not to exceed **\$72,640.00**.
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 100% (\$72,640.00) value of the scope where **local businesses** availability exists.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



Engineering Services Committee Meeting
2/6/2007 1:00 PM
CH2M Hill Contract Amendment No. 7, Option Year 1

Department: Utilities

Caption: Authorize Option Year 1 of Amendment No. 7 to the existing Program Management Services Contract with CH2M HILL, INC. to provide Program Management Services for the 2004 Series Bond Capital Improvements Program approved by Commission 02/01/2005. Option Year 1 budget is \$1,350,000.

Background: CH2M HILL, INC. has been providing Program and Contract Management Services for the Augusta Utilities Department Master Plan 2000 implementation program. To cover the continuing services needed for the 2004 Series Bond Capital Improvements Program an amendment to the existing contract, Amendment No. 7, was approved by Commission 02/01/2005. In this Amendment No. 7 tasks were selected to provide contract management services as well as program management including approximately 20% subcontract services with local, MBE/WBE firms. The firms currently furnishing field support services are Khafra Engineering, Inc. (Augusta) and Management Analysis and Utilization (Augusta), others will be added as needed. CH2M HILL, INC. will continue to provide the DBE Coordinator with a monthly update on local, MBE/WBE utilization under their contract. CH2M HILL, INC. will not furnish design or construction services for the projects funded by this program. The initial term of Amendment No. 7 was for two years with three additional one year options. Attachment B from Amendment No. 7 is attached for reference regarding the approved compensation amounts for each option year. Option Year 1 will begin 02/01/2007.

Analysis: Approving this authorization will allow the 2004 Series Bond Capital Improvements Program to progress in a timely and cost efficient manner.

Financial Impact: Funds for this authorization can be charged to the 2004 Series Capital Improvement Program: \$1,350,000 funded by account number: 511043490-5212115/80390900-5212115

Alternatives: No alternatives.

Recommendation: We recommend the Commission approve Authorization of Option Year 1 defined in Amendment No. 7 to the existing contract with CH2M HILL, INC. for additional Program Management Services associated with the 2004 Series Bond Capital Improvements program in the amount of \$1,350,000.

Funds are Available in the Following Accounts: 511043490-5212115/80390900-5212115

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**

ATTACHMENT B - COMPENSATION

ARTICLE 2. COMPENSATION

Compensation by OWNER to PROGRAM MANAGER will be as follows:

A. COST REIMBURSABLE-PER DIEM (TIME AND EXPENSE)

No Changes

B. BUDGET

A budgetary amount of \$8,250,000 (Eight Million, Two Hundred and Fifty Thousand Dollars), excluding taxes, is hereby established for the Amendment 7 additional services defined in Attachment A. The budget amount for any additional services not listed in ARTICLE 1 will be established by further amendment to this AGREEMENT.

The initial term of this Amendment 7 is for two (2) years. There are three (3) additional one (1) year options to be exercised at the discretion of the Owner. The estimated budgeted breakdown is as follows:

Initial term (2 years)	\$4,600,000
Option Year 1 (1 year)	\$1,350,000
Option Year 2 (1 year)	\$1,300,000
Option Year 3 (1 year)	\$1,000,000

PROGRAM MANAGER will make reasonable efforts to complete the work within the budget and will keep OWNER informed of progress toward that end so that the budget or work effort can be adjusted if found necessary.

PROGRAM MANAGER is not obligated to incur costs beyond the indicated budgets, as may be adjusted, nor is OWNER obligated to pay PROGRAM MANAGER beyond these limits.

C. PER DIEM RATES

No Changes

D. DIRECT EXPENSES

No Changes



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
CH2MHill Contract Amendment No. 7**

DATE: January 12, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Condemnation - Jim Davis Company**

Department: County Attorney - Stephen E. Shepard, Attorney

Caption: Motion to authorize condemnation of a portion of Tax Map 18, Parcel 364-0, which is owned by Jim Davis Company for a permanent easement of 25,463 feet and a temporary easement of 17,602 feet. Public Works Project: Pointe West Subdivision Drainage Improvement Project.

Background: The appraised value of the easement is \$11,593.00. In order to timely acquire access, condemnation will be necessary.

Analysis: Condemnation is required in order to acquire the easement.

Financial Impact: The necessary costs will be covered by project budget.

Alternatives: Deny the authorization to condemn.

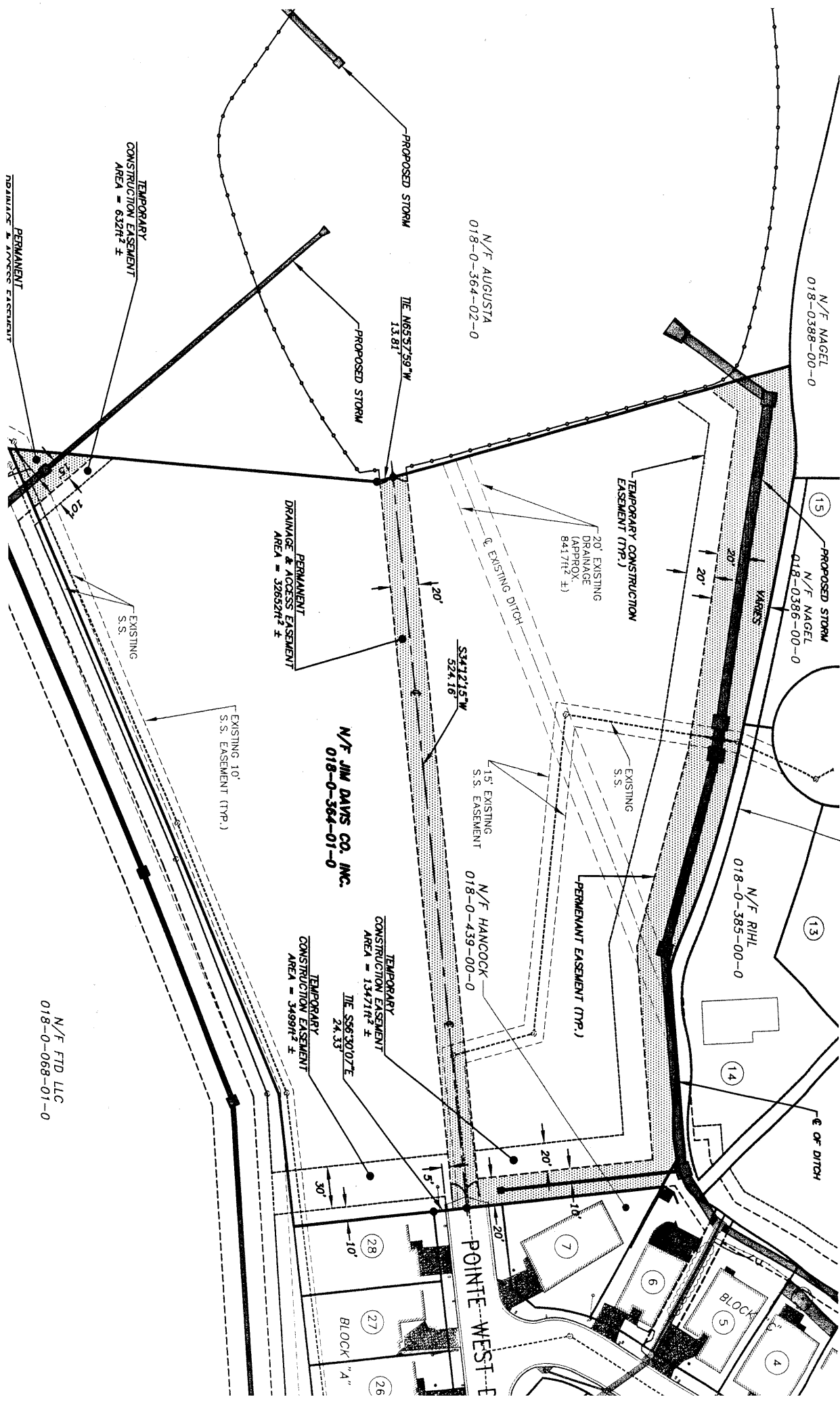
Recommendation: Approve the authorization to condemn.

Funds are Available in the Following Accounts: G/L 323041110-54.11120 J/L 203823372-54.11120

REVIEWED AND APPROVED BY:

**Administrator.
Clerk of Commission**

-CREEK BEND SUBDIVISION-
BLOCK "A"





Engineering Services Committee Meeting
2/6/2007 1:00 PM
Condemnation - Mary E. and George L. Cassels, III

Department: County Attorney - Stephen E. Shepard, Attorney

Caption: Motion to authorize condemnation of a portion of property #140-0-505-00-0, 3863 Crest Drive, which is owned by Mary E. and George L. Cassels, III for 1,910 square feet for a permanent easement and 1,914 square feet of temporary easement. AUD Project: Horsepen Sanitary Sewer, Phase II

Background: Appraisal value of the easement is \$688.00. Unable to contact property owners. In order to acquire timely access, condemnation will be necessary.

Analysis: Condemnation is required in order to acquire the easement.

Financial Impact: The necessary costs will be covered by project budget.

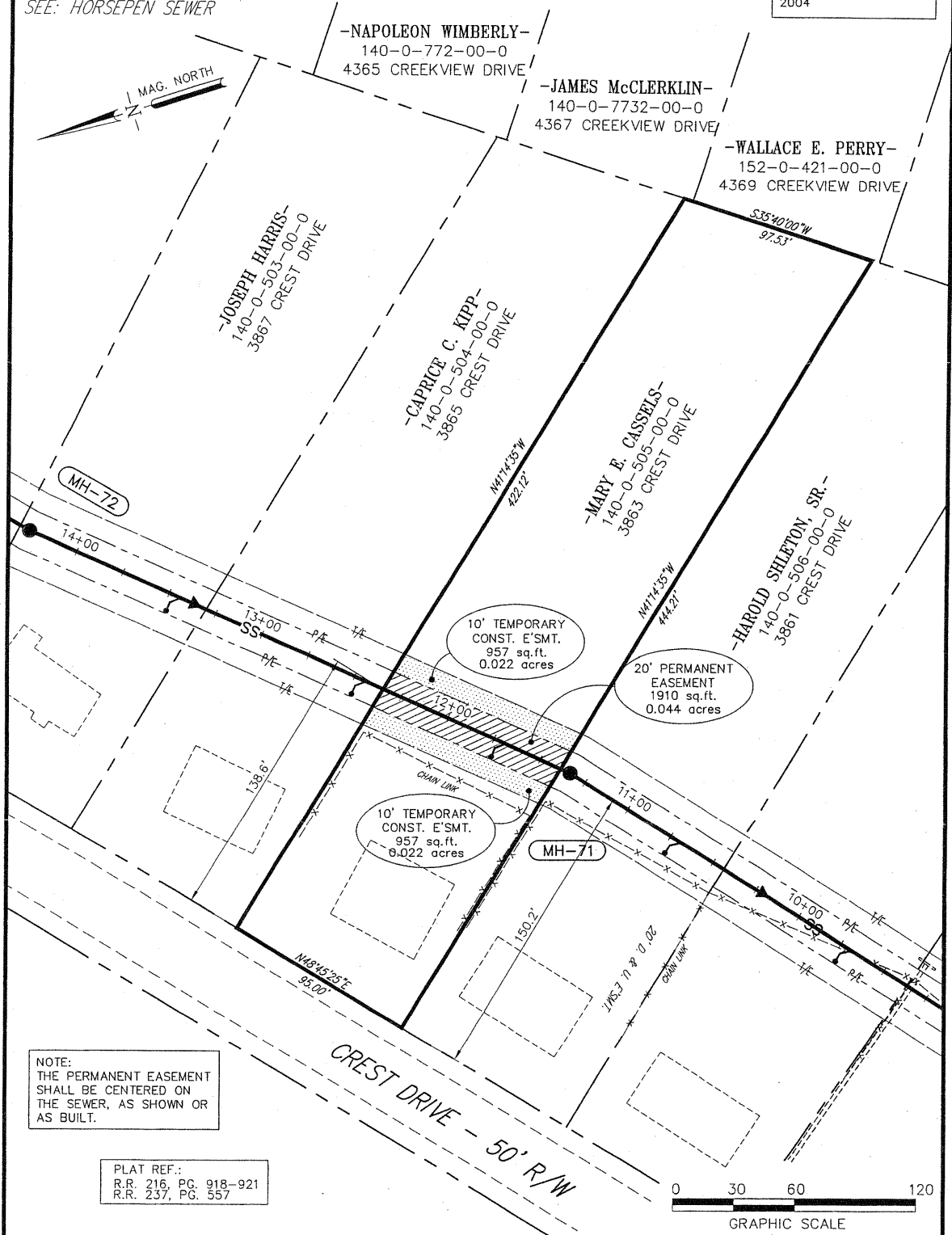
Alternatives: Deny the authorization to condemn.

Recommendation: Approve the authorization to condemn.

Funds are Available in the Following Accounts: G/L 510043420-5411120 J/L 80250202-5411120

REVIEWED AND APPROVED BY:

Administrator.
Clerk of Commission



**EASEMENT PLAT
FOR:**

AUGUSTA COMMISSION
HORSEPEN PHASE 2 SEWER COLLECTION SYSTEM
HORSEPEN BRANCH BASIN - PROJECT NO. 50202

Scale: 1" = 60'

Date: 05-03-2005

Description:

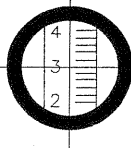
PROPERTY LOCATED IN THE 86th G.M.D.

COUNTY OF:

RICHMOND

STATE OF:

GEORGIA



GEORGE L. GODMAN & ASSOCIATES

GEORGIA REGISTERED LAND SURVEYOR 1977
SOUTH CAROLINA REGISTERED LAND SURVEYOR 6268
1280 MERRY STREET
AUGUSTA, GEORGIA 30904
PHONE: (706) 738-0749



EQUIPMENT USED:
WILD 10C1010 TOTAL STA.

ANGULAR CLOSURE:
00'-00"-03"/STA.

TRAVERSE CLOSURE:
RADIAL TRAVERSE

ADJUSTMENT: NONE



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Condemnation - Philanna M. Peterson**

Department: County Attorney - Stephen E. Shepard, Attorney

Caption: Motion to authorize condemnation of a portion of property #140-0-500-00-0, 3873 Crest Drive, which is owned by Philanna M. Peterson for 2,181 square feet for a permanent easement and 2,180 square feet of temporary easement. AUD Project: Horsepen Sanitary Sewer, Phase II

Background: Appraisal value of the easement is \$785.00. Unable to contact property owner. In order to acquire timely access, condemnation will be necessary. Mr. Peterson is the daughter of the former owner Berry J. Williams - plat shows owner as Berry J. Williams.

Analysis: Condemnation is required in order to acquire the easement

Financial Impact: The necessary costs will be covered by project budget.

Alternatives: Deny the authorization to condemn.

Recommendation: Approve the authorization to condemn.

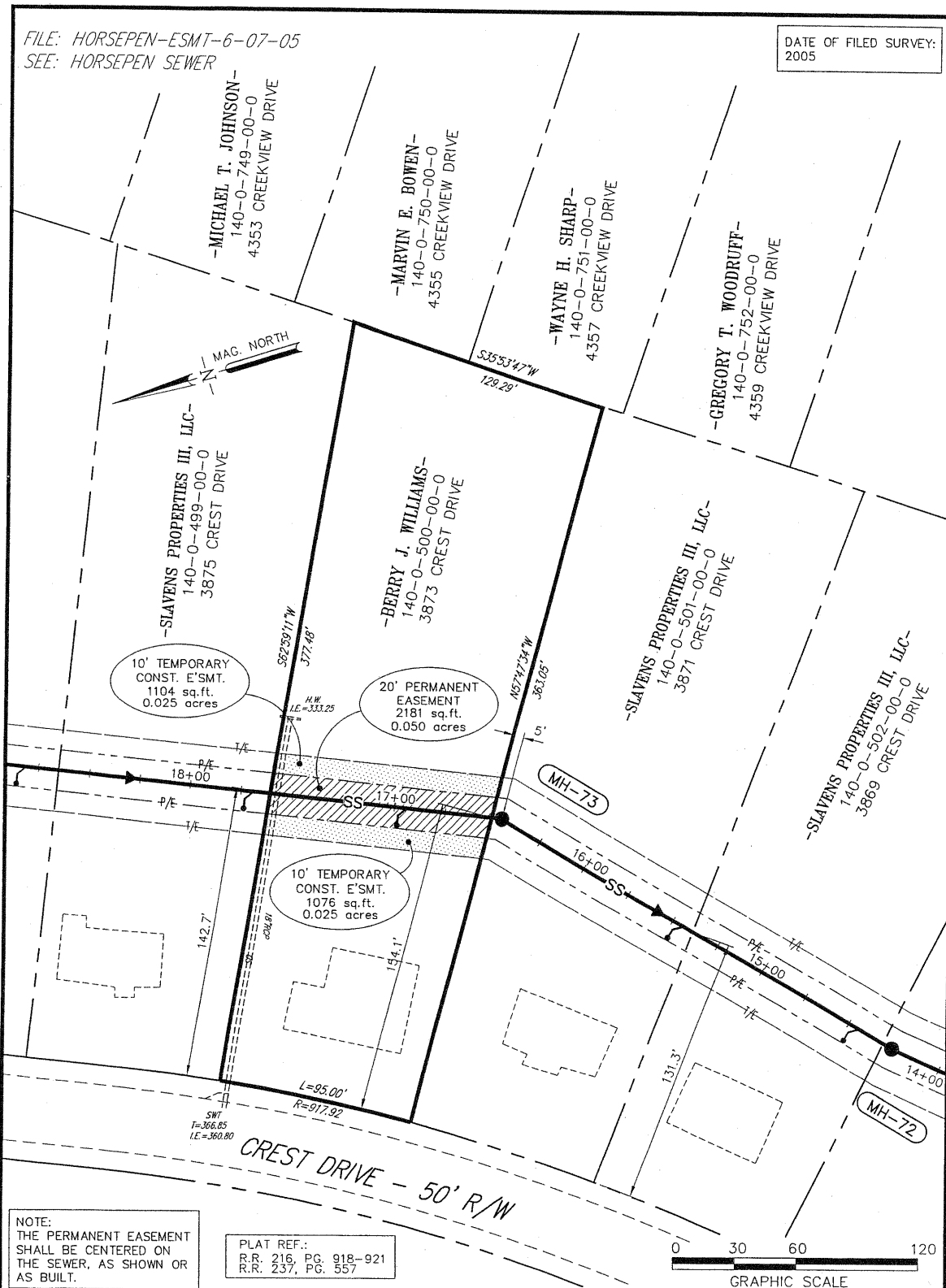
Funds are Available in the Following Accounts: G/L 510043420-5411120 J/L 80250202-5411120

REVIEWED AND APPROVED BY:

**Administrator.
Clerk of Commission**

FILE: HORSEPEN-ESMT-6-07-05
SEE: HORSEPEN SEWER

DATE OF FILED SURVEY:
2005



NOTE:
THE PERMANENT EASEMENT
SHALL BE CENTERED ON
THE SEWER, AS SHOWN OR
AS BUILT.

PLAT REF.:
R.R. 216, PG. 918-921
R.R. 237, PG. 557

0 30 60 120
GRAPHIC SCALE

**EASEMENT PLAT
FOR:**

AUGUSTA COMMISSION
HORSEPEN PHASE 2 SEWER COLLECTION SYSTEM
HORSEPEN BRANCH BASIN - PROJECT NO. 50202

Scale: 1" = 60'

Date: 05-03-2005

Description:

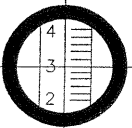
PROPERTY LOCATED IN THE 86th G.M.D.

COUNTY OF:

RICHMOND

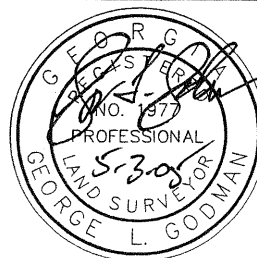
STATE OF:

GEORGIA



GEORGE L. GODMAN & ASSOCIATES

GEORGIA REGISTERED LAND SURVEYOR 1977
SOUTH CAROLINA REGISTERED LAND SURVEYOR 6268
1280 MERRY STREET
AUGUSTA, GEORGIA
PHONE: (706) 738-0749 30904



EQUIPMENT USED:
WILD 10C1010 TOTAL STA.

ANGULAR CLOSURE:
00'-00'-03"/STA.

TRAVERSE CLOSURE:
RADIAL TRAVERSE

ADJUSTMENT: NONE



Engineering Services Committee Meeting
2/6/2007 1:00 PM
Extension of Staff Augmentation Agreement with JJ&G-01/11/07

Department:	Abie L. Ladson, P.E., Interim Director Engineering Department
Caption:	Authorize the Engineering Department to extend the current agreement with Jordan, Jones & Goulding (JJG) for one year to provide project management support via staff augmentation in an amount not to exceed \$160,000 to be funded from SPLOST Phase V Administration lapsed salaries (325-04.1197-5111110) upon receipt and review of executed documents.
Background:	Augusta-Richmond County (ARC) is responsible for Pre-construction activities on several GDOT projects including St. Sebastian, Windsor Spring Road, Alexander Drive and Wrightsboro Road. These projects are in various stages of development and require efficient and effective interaction and coordination between GDOT, ARC and the respective design consultants.
Analysis:	On June 7, 2005, the Commission approved the initial agreement with JJG for David Griffith to provide staff support as Project Manager. This agreement has proven to be very effective and beneficial to the Engineering Department. His knowledge of the GDOT processes and understanding of how to request assistance on projects has resulted in saving the Engineering Department millions of dollars. He has also been successful in finding and securing funds for projects after the original funds for these projects had been reallocated to other projects.
Financial Impact:	Adequate funds exist in the SPLOST Phase administration account to support this activity.
Alternatives:	1) Authorize the Engineering Department to extend the current agreement with Jordan, Jones & Goulding (JJG) for

one year to provide project management support via staff augmentation in an amount not to exceed \$160,000 to be funded from SPLOST Phase V Administration lapsed salaries (325-04.1197-5111110) upon receipt and review of executed documents. 2) Deny and acknowledge that ARC managed GDOT projects may experience delays.

Recommendation: Approve Alternative Number One.

**Funds are
Available in the
Following
Accounts:** 325-04.1197-5111110

REVIEWED AND APPROVED BY:

**Finance.
Administrator.
Clerk of Commission**

Financial Savings to the City of Augusta
Initiated by David Griffith
January 8, 2007

- City Commission approved the Agenda Item for JJG, via David Griffith, to provide staff support in the position of Acting Project Manager on 6/7/05.
- David began these duties on 6/13/05.
- **8/18/05:** David & former Director Teresa Smith worked out an agreement between Georgia Power, the Engineering Department & GDOT which absolved the Engineering Department from paying Georgia Power the entire cost to relocate their distribution & transmission lines on the Walton Way Ext/Davis Rd project that was under construction. The total cost to relocate these facilities was \$1,607,000. The 3 party agreement reduced the cost that the Engineering Department would be responsible for to \$547,000. **Total savings = \$1,060,000.**
- **2/7/06:** initiated an Agenda Item that was approved by the City Commission to waive the City Ordinance that would have required the burial of utilities within a portion of the St. Sebastian Street Ext/Greene St/15th Street project. **Estimated savings = \$4.7 million+.**
- **4/13/06:** the Fire Department had advised that they were looking for property on Alexander Drive to build a new fire station. Advised the Fire Department that the Alexander Drive road widening project was going to impact 4 properties with houses that would have to be relocated & that the acquisition is being funded by the Engineering Department. The Fire Department looked at these sites & has decided to build the new station on one of these properties. This will also result in a more operationally efficient ingress/egress movement for the fire trucks from the new station to Alexander Drive. **Total savings = \$500,000+.**
- **7/20/06:** submitted request to GDOT asking them to be responsible for acquiring r/w on Windsor Spring Road Phase IV project which GDOT has agreed to do. **Total savings = \$1,500,000.**
- **8/4/06:** Kroger officials had advised that they were going to renovate/expand their store at the intersection of Washington Rd & Alexander Dr. The officials expressed serious concerns about proceeding with the project when they found out that the improvements to Alexander Dr would involve a median which would restrict traffic from Alexander Drive into their store. Modifications were made to the typical section in this area that was agreeable to the Kroger officials who advised that they would continue with their renovation/expansion project. **The project by Kroger will be a positive benefit to the City's tax base.**
- **10/27/06:** monitored status of GDOT construction projects & identified which ones could be closed out. The Engineering Department had financial commitments to these projects in the form of utility relocations. David contacted all of the utility companies to see if any invoices were still outstanding. He was advised of none & the Engineering Department was able to **recapture \$474,479 that could be redirected to other projects.**



**JORDAN
JONES &
GOULDING**

6801 Governors Lake Parkway
Building 200
Norcross, Georgia 30071
T 770.455.8555
F 770.455.7391
www.jjg.com

January 9, 2007

Mr. Abie Ladson, P.E.
Augusta-Richmond County
Interim Director of Engineering
Public Works and Engineering Department
1815 Marvin Griffin Road
Augusta, Georgia 30906

Attention: Ms. Shelette McCrae
Administrative Assistant

RE: Extension of Consultant Services Agreement
Project Management Support via Staff Augmentation
Purchase Order P113792
Current File Reference 06-005(F)

Dear Mr. Ladson:

Jordan, Jones & Goulding, Inc. is in agreement to extending the above-referenced contract for an additional twelve months and \$160,000 at the hourly rate of \$135 per hour for Mr. David O. Griffith.

The current agreement was originally approved by the Augusta Commission on June 7, 2005 and was subsequently identified in Purchase Order P113792.

Sincerely,

JORDAN, JONES & GOULDING, INC.

By: Kenneth L. Anderson, PE
Sr. VP and Transportation Services Leader

cc: David Griffith

**AUGUSTA-RICHMOND COUNTY
DEPARTMENT OF PUBLIC WORKS & ENGINEERING
SUPPLEMENTAL AGREEMENT**

**Project No.: N/A
SUPPLEMENTAL AGREEMENT NO.: Three
P.O.: 113792**

WHEREAS, We, "Jordan, Jones & Goulding" Consultant, entered into a contract with Augusta-Richmond County on "June 7, 2005", for Project Management Support associated with the "Temporary Professional Services Support", File Reference No. 07-005(F) and

WHEREAS, certain revisions to the design requested by Augusta-Richmond County are not covered by the scope of the original contract, we desire to submit the following Supplemental Agreement to-wit:

**Professional advice and consulting services regarding
project management support via staff augmentation.**

It is agreed that as a result of the above-described modification the contract amount is increased by \$160,000.00 from \$230,000.00 to a new total of \$390,000.00.

Any modifications to submittal dates shall be as identified in the attached proposal. This agreement in no way modifies or changes the original contract of which it becomes a part, except as specifically stated herein.

NOW, THEREFORE, We, "Jordan, Jones & Goulding", Consultant, hereby agree to said Supplemental Agreement consisting of the above mentioned items and prices, and agree that this Supplemental Agreement is hereby made a part of the original contract to be performed under the specifications thereof, and that the original contract is in full force and effect, except insofar as it might be modified by this Supplemental Agreement.

This 10th day of January 2007

RECOMMEND FOR APPROVAL:

CITY OF AUGUSTA-RICHMOND COUNTY
AUGUSTA, GEORGIA

Deke S. Copenhagen, Mayor

Approved: Date _____

ATTEST:

Title: _____

Approved: Date _____
[ATTACHED CORPORATE SEAL]

ATTEST:

Title: _____



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
James Brown Statue Enhancement**

Department: Clerk of Commission

Caption: Discuss the enhancement of the James Brown Statue.
(Requested by Commissioner Williams)

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

Clerk of Commission



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Jay's Car Wash & Supply**

Department: Clerk of Commission

Caption: Presentation by Mr. Joe Jones of Jay's Car Wash & Supply regarding compensation for his loss of business resulting from roadway improvements on Barton Chapel Road.

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

Clerk of Commission

JAY'S CAR WASH & SUPPLY
2384 BARTON CHAPEL ROAD
AUGUSTA, GEORGIA 30906

Joe L. Jones
3423 Dean Bridge Road
Augusta, GA 30906

(706) 414-3185

January 18, 2007

Engineer Commissioner Board Augusta, GA 309306

ATTN: LENA BARNER

To Whom It May Concern:

I am requesting to meet with the Engineer Commissioner Board for the following reasons.

1. I went before the Engineer Commissioner Board in April of 2006, it was stated by the commissioner that I should be compensated for my loss of business, as of now I have not been offered any amount that I think is fair to me.

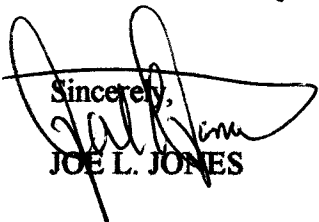
2. I was told by the administrator (Mr. Russell) \$4,000 was all he could offer me he would have to go back to the commissioner. I stated to him that was not enough due to the fact that I had to pay out \$8,505 to maintain up keep of the property.

3. I have received a letter from the law department with an offer of \$6,000, I stated to the attorney that sent me the letter that amount was not enough because of the amount I had to pay-out for the year. She stated that I did not have a case I told her that the commissioner had already stated that I should be compensated.

4. I was making around \$27,000, I am asking for \$16,505, this includes the amount I paid-out to maintain the property for the year, and \$8,000 of the profit I would have made. This would help me pay for advertisement to rebuild my business which has not been good since I was closed down for that year, I lost all my customers, contract and have not been able to rebuild.

5. I am requesting that the commissioner decide on this amount or higher.

Sincerely,


JOE L. JONES



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Judicial Center Sub-Committee**

Department: Clerk of Commission

Caption: Report from the Judicial Center Sub-Committee regarding questions concerning the Judicial Center Project relating to the sub-committee's composition, the retention of the current architectural firm and the contract extension with that firm if they are retained.

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

Clerk of Commission



Engineering Services Committee Meeting
2/6/2007 1:00 PM
Laney Walker Sewer Replacement

Department: Utilities

Caption: Ratify and approve the actions of AUD to repair and replace the Laney Walker sanitary sewer main between Laney Walker Court and Lover's Lane through a second change order to the existing Laney Walker Sewer Emergency Repair Project in the amount of \$80,214.31 for a total budget of \$545,214.31.

Background: The Laney Walker sewer line is an 18" & 24" concrete sewer line that was installed approximately forty years ago. This sewer line is located at a depth of 14 to 18 feet, and is parallel to the storm ditch which runs in the median of Laney Walker. This sanitary sewer line carries all of the industrial waste from Columbia Nitrogen Drive to the Second Street lift station. The industrial waste is such that it reacts in a negative manner with the concrete pipe causing the top portion to erode and fail. The sewer line failures ultimately manifest themselves into large holes from the pipe to the ground surface. AUD has a sewer project that has been awarded for construction called the Industrial Force-Main. This project entails running a pressurized sewer line from Columbia Nitrogen Drive to the Messerly Wastewater Treatment Plant. It was the plan of AUD to get this sewer force-main in service to remove the industrial waste from the Laney Walker sewer line. After the industrial waste was removed the sewer line in Laney Walker was to be evaluated, repaired, and replaced with a much reduced sewer flow. The Laney Walker sewer line has begun failing sooner than was anticipated. Over the past year several point repairs have been performed to patch the failing line by way of an emergency contract with Blair Construction. On June 7, 2005 the Commission approved a budget of \$250,000 for emergency repairs to the Laney Walker Sewer line. \$135,500 of this was for Blair Construction for various point repairs to the sewer line. On October 17, 2006 the Commission

approved the first change order to the mentioned emergency contract, bringing the total budget to \$465,500. This action was the result of an agenda item brought forth by AUD seeking ratification for actions taken to repair the series of additional collapses occurring along the Laney Walker 24" sewer line.

Analysis:

We have repaired and replaced parts of the 24" sewer line under the items as described in the Background. We constructed a new 18" line along Laney Walker from Hayes Street to Lovers Lane and abandoned the 24" line which had numerous collapses. In October 2006, when AUD requested the first change order, the emergency nature of the project dictated that the new 18" line be put in place expeditiously without collecting soil borings. The soil conditions were such that a much larger amount of select backfill was needed than anticipated, and consequently the cost was underestimated by approximately \$80,000. This request will provide the additional funding in the amount of \$80,214.31 for a total budget of \$545,214.31. This line carries the wastewater from our largest customers and it was essential to restore this line to a dependable condition.

Financial Impact:

\$80,214.31

Alternatives:

None Recommended

Recommendation:

It is recommended to ratify and approve the actions of AUD to repair and replace the Laney Walker sanitary sewer main between Laney Walker Court and Lover's Lane through a second change order to the existing Laney Walker Sewer Emergency Repair Project in the amount of \$80,214.31 for a total budget of \$545,214.31.

**Funds are
Available in the
Following
Accounts:**

507043420-5425210 / 80500020-5425210

REVIEWED AND APPROVED BY:

**Finance.
Procurement.**

**Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Laney Walker Sewer Replacement**

DATE: January 18, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



Engineering Services Committee Meeting

2/6/2007 1:00 PM

Motion to Accept Easement Deed to Correct Oversight on Stratford Drive Project

Department:	Augusta Utilities Department
Caption:	Motion to approve and accept an Easement Deed from Jan G. Munn to correct an oversight made during the Stratford Drive Sanitary Sewer Project, constructed in 1978.
Background:	During the construction of the sanitary sewer pipeline, rock was struck. The pipeline was moved to go around the rock. No corrective easement, showing the new location of the pipeline, was acquired. In the course of discovery, it was found that a house behind the Munn's had been missed.
Analysis:	Mrs. Munn is donating the easement to Augusta. The Deed covers the existing pipeline and the easement needed to connect the missed house to the system. The acceptance and recording of the Easement Deed will rectify documentation issues.
Financial Impact:	None
Alternatives:	Not approve the Easement Deed.
Recommendation:	Accept and approve the Easement Deed.
Funds are Available in the Following Accounts:	N/A

REVIEWED AND APPROVED BY:

Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission

After recording, please return to:
Augusta Utilities Department
Land Acquisition Section
360 Bay Street, Suite 180
Augusta, Georgia 30901
(706) 312-4143

EASEMENT DEED

STATE OF GEORGIA
COUNTY OF RICHMOND

THIS INDENTURE, made the 10 day of ~~JANUARY~~^{SEVEN} in the year two thousand and ~~SIX~~^{SEVEN}, between JAN G. MUNN, hereinafter referred to as *Owner* and AUGUSTA, GEORGIA, a political subdivision of the State of Georgia, hereinafter referred to as *Augusta*; and

WHEREAS, Owner is the current owner of a parcel of land, to wit:

All that lot or parcel of land with improvements thereon, situate, lying and being in the State of Georgia, County of Richmond, 1269th District G.M., in a subdivision known as Berckman Hills and fronting on the North side of Ashland Drive a distance of 90 feet, and running back on its Eastern line 372.7 feet and on its Western line 292.4 feet to a rear width of 215 feet. This property is more particularly described on a plat made by Edwin S. Epstein, Jr. dated September 10, 1955, which was recorded in the Office of the Clerk of the Superior Court of Richmond County, Georgia, in Realty Book 22-Z, Pages 386-387; reference is hereby made to said plat for a more complete and accurate description as to the metes, bounds and locations of said property;

Said property is also shown as Lot 31, Berckman Hills Section No. 2 on a plat prepared by H. Lawson Graham & Associates, Inc., dated December 15, 1993, which is recorded in said clerk's office in Realty Book 442, Pages 1438-1439, to which reference is hereby made.

Said parcel being conveyed by way of Warranty Deed dated December 15, 1993, and recorded in said Clerk's office in Realty Book 442, Pages 1441-1442.

WHEREAS, during the construction of a sanitary sewer line, connecting the houses in Berckman Hills and Briarcliff Subdivisions to the sanitary sewer main, rock was struck and said sanitary sewer line was placed in a location other than that shown on the plans; and

WHEREAS, inadvertently a permanent easement Deed was not obtained and recorded; and

WHEREAS, it has come to light that access to the sewer was not provided for a lot behind that of Owner, said lot being that conveyed to Michael A. and Sandra L. Katterjohn by Warranty Deed recorded in the said clerk's office in Realty Reel 611, Page 1; and

WHEREAS, both Owner and Augusta wish to rectify this situation to correctly show the location of the sanitary sewer and provide sanitary sewer to the aforesaid lot of Katterjohn; and

WHEREAS, Owner has agreed to convey to Augusta an easement over and across the actual location of the existing sanitary sewer line and an easement in which to construct the line to the lot of Katterjohn;

NOW THEREFORE, Owner, for and in consideration of the sum of ONE DOLLAR (\$1.00) in hand and truly paid by Augusta at and before the sealing and delivery of these presents, good will, and other valuable consideration, the receipt whereof is hereby acknowledged, has granted, bargained, sold, conveyed and confirmed, and by these presents does grant, bargain, sell, convey and confirm unto Augusta, its successors and assigns, easements in perpetuity for the purpose and uses hereinafter set forth, over, through and across the above described lands and is granted appurtenant thereto, and is further described as follows:

A 20' easement, over the existing sanitary sewer line, and a 10' easement in which to construct the new sanitary sewer line, both in perpetuity under, across and through the above described parcels of land, said easements being marked "Parcel A" on a plat prepared by Joseph L. Holley for Augusta, Georgia, dated February 17, 2005, and attached to this document, to which reference is made for a more accurate and complete description of the metes, bounds and courses. Said easements being for the purpose of laying, relaying, replacing, installing, extending, operating, repairing and maintaining pipelines transporting and carrying utility services.

Owner does also grant, bargain, sell and convey unto Augusta, its successors and assigns, the right, but not the duty, to clear, and keep clear, all trees, undergrowth and other obstructions from said permanent easement.

Owner does also grant unto Augusta, its successors and assigns, the free right of ingress and egress to and from said permanent easements for the purposes listed in the paragraphs above.

Owner, their heirs, assigns and legal representatives shall retain the right to use said easements in any manner not inconsistent or interfering with the rights herein granted, excluding, however, the right to plant thereon any trees or other vegetation that may interfere with the laying, relaying, installing, extending, operating, repairing, replacing and maintaining of pipelines transporting and carrying utility services and also excluding the right to erect, construct or maintain thereon any buildings, structures, or other permanent improvements.

The easements herein granted shall bind the heirs and assigns of the undersigned party, and shall inure to the benefit of the successors in title of the grantee.

Owner does also grant unto Augusta a 5' temporary easement as shown on said plat. Said easement is granted together with the right to dig such trenches in said parcel of land as may be necessary for the Project, to pile thereon the material excavated, and to haul pipe, supplies and equipment connected with the construction and maintenance thereof, over, along and across the said parcel of land. Said temporary easement shall expire at the completion and final acceptance of the Project by Augusta.

BY THIS DOCUMENT, and not withstanding anything contained here to the contrary, Augusta, does agree to the following:

- That no trees will be cut down, removed, or trimmed within the 10' Permanent Utilities Easement and the 5' Construction Easement, during the installation and construction of the new sanitary sewer line, and

thereafter, unless such unreasonably interfere with said sanitary sewer line; and

- That the privacy hedge on the fence, along the western boundary of the property, will not be disturbed, or damaged, at any time during the term of this easement; and
- That, during the construction and installation of the new sanitary sewer line within the 10' permanent utilities easement, Augusta, or its agents, will erect such temporary fencing, including, but not limited by, a temporary fence along the western boundary of the property, to ensure Owner's dogs remain in the yard; and
- That Owner's will be notified prior to start of construction and, thereafter, prior to any maintenance, or other times that access to the easement is required; and
- That it will restore any damage caused to Owner's driveway, grassing, landscaping and fencing during construction, or maintenance.

IN WITNESS WHEREOF, Owner and Augusta have signed and sealed this deed the day and year first above written.

Signed, sealed and delivered in the presence of:

Jessica V. Gonzalez
Witness

Jan G. Munn
Jan G. Munn

Helen W. Griffin
Notary Public, Richmond County, Georgia

Helen W. Griffin, Richmond County
My Commission Expires July 12, 2008

My commission expires: July 12, 2008

AUGUSTA, GEORGIA

Witness

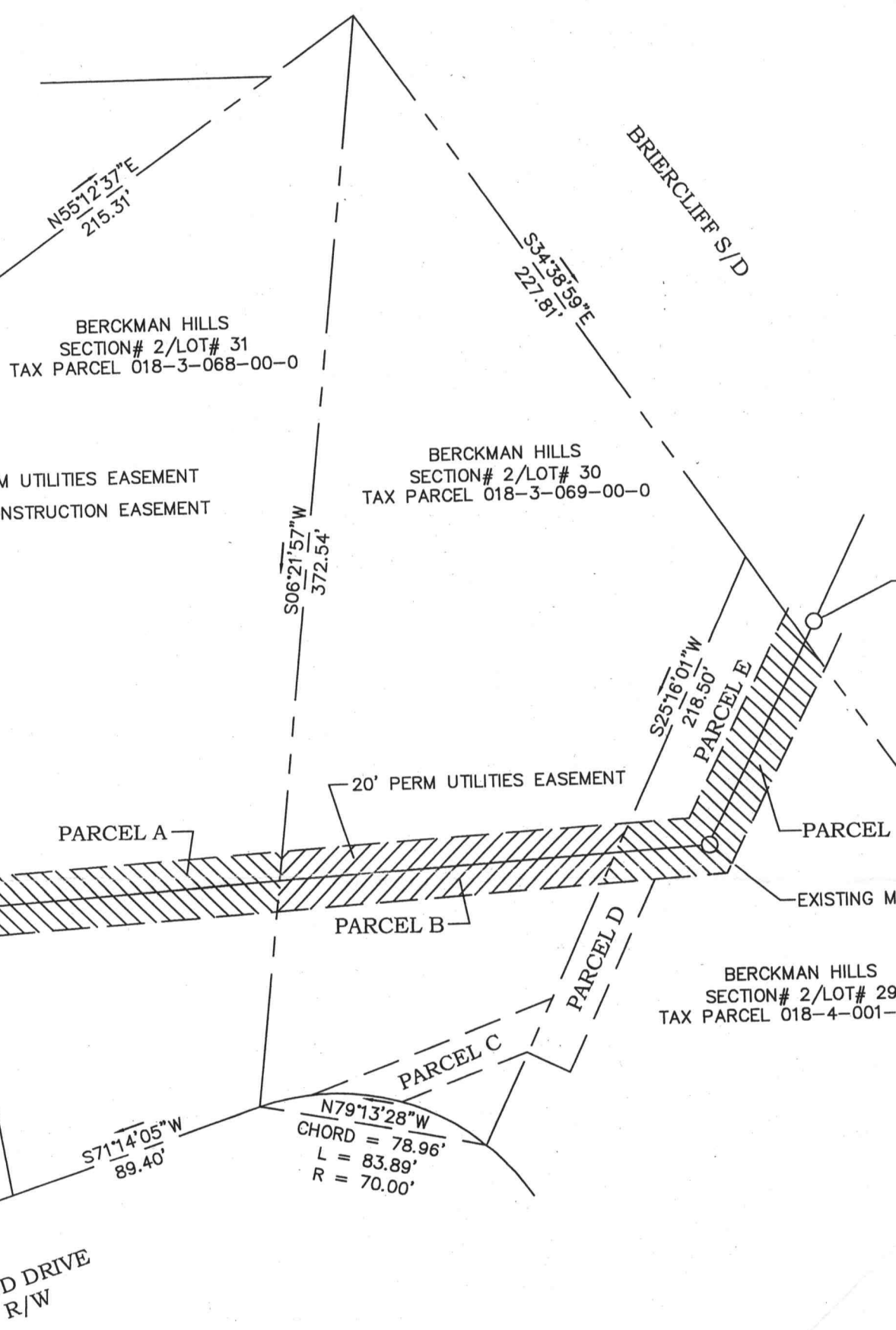
By: _____
Deke S. Copenhaver, Mayor

Notary Public, Richmond County, Georgia

Attest: _____
Clerk of Commission

My commission expires: _____

(Seal)



1. PARCELS A & B ARE UTILITIES EASEMENTS CONVEYED TO AUGUSTA, GEORGIA.
2. PARCELS C & D ARE UTILITIES EASEMENTS TO BE ABANDONED BY AUGUSTA, GEORGIA.
3. REFERENCE PLAT FOR DANIAL M MUNN JR & JAN G MUNN, DATED DECEMBER 15, 1993,
BY H LAWSON GRAHAM & ASSOC RECORDED ON REALTY REEL 552, PAGE 1438.
4. EXHIBIT COMPILED FROM INFORMATION ON REFERENCE PLAT AND THAT ON FILE
WITH THE AUGUSTA UTILITIES DEPARTMENT.

AUGUSTA GEORGIA



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

**SUBJECT: DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Easement Deed from Jan G. Munn - Stratford Drive Sanitary Sewer
Project**

DATE: January 18, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



Engineering Services Committee Meeting
2/6/2007 1:00 PM
Pinnacle Place Subdivision Change Number 3 /Contract Award

Department: Abie L. Ladson, P.E., Interim Director Engineering Department

Caption: Approve CPB #322-04-203822642 Change Number Three in the amount of \$49,000.00 to be funded from the project contingency to be allocated for project construction. Also, approve award of construction contract to Blair Construction, Inc. in the amount of \$641,111.12 for the Pinnacle Place Subdivision Erosion & Drainage Improvements Project, subject to receipt of signed contracts and proper bonds. Bid Item # 06-190

Background: This project proposes to address drainage and erosion control issues in the southwest area of the Pinnacle Place Subdivision. This project will include enclosed drainage and swales. The Pinnacle Place Subdivision project was funded in November 2003 through Phase I and II Recapture of the Special 1% Sales Tax.

Analysis: Bids were received on December 1, 2006 with Blair Construction, Inc. being the low bidder. Bid results are as follow: CONTRACTORS BID 1. Blair Construction, Inc. \$641,111.12 2. Mabus Brothers Construction Co., Inc. \$831,814.25 No DBE subcontractor(s) are being used by Blair Construction, Inc. on this project. DBE SUBCONTRACTORS AMOUNT TOTAL: \$0.00 DBE %: 0%

Financial Impact: Funds are available to complete this project

Alternatives: 1) Approve CPB #322-04-203822642 Change Number Three in the amount \$49,000.00 to be funded from the project contingency to be allocated for project construction. Also, approve award of construction contract to Blair Construction, Inc. in the amount of \$641,111.12 for the Pinnacle Place

Subdivision Erosion & Drainage Improvements Project, Bid Item # 06-190 subject to receipt of signed contracts and proper bonds. 2) Do not approve and not construct the project.

Recommendation: Approve Alternative Number One

**Funds are
Available in the
Following
Accounts:** 322-041110-6011110/203822642

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**

**CAPITAL PROJECT BUDGET
PINNACLE PLACE DRAINAGE IMPROVEMENT
CHANGE NUMBER THREE**

BE IT ORDAINED by the Commission-Council of Augusta-Richmond County, Georgia that the following Capital Project Budget is hereby adopted:

Section 1: This project be set up is authorized to CPB#322-04-203822642. The funding for this project is needed for Construction. We propose to address the drainage issues and erosion control issues and will include enclosed drainage and swales. Funding will come from project Contingency.

Section 2: The following revenues are anticipated to be available to the Consolidated Government to complete the project.

Special 1% Sales Tax, Phase I Recapture	\$ 211,000
Special 1% Sales Tax, Phase II Recapture	\$ 289,000
Special 1% Sales Tax, Phase II Recapture	<u>\$ 230,000</u>
	\$ 730,000

Section 3: The following amounts are appropriated for the project:

	By Basin		By District
Butler Creek	\$730,000	4th	730,000

Section 4: Copies of this Capital Project Budget shall be made available to the Comptroller for direction in carrying out this project.

Adopted this _____ day of _____.

Approved

Honorable Deke Copenhaver, Mayor

Original-Commission Council Office
Copy-Engineering Department
Copy-Finance Department
Copy-Procurement Department

**CAPITAL PROJECT BUDGET
PINNACLE PLACE DRAINAGE IMPROVEMENT
CHANGE NUMBER THREE**

<u>SOURCE OF FUNDS</u>	<u>CPB AMOUNT CPB</u>	<u>CPB CHANGE</u>	<u>NEW CPB</u>	<u>2007 G/L AMOUNT</u>
SALES TAX, PHASE I RECAPTURE 321-04-1110-6011110-288821333	(\$211,000)		(\$211,000)	\$0
SALES TAX, PHASE II RECAPTURE 322-04-1110-6011110-292822333	(\$289,000)		(\$289,000)	\$0
SPLOST PH II RECAPTURE 322-04-1110-6011110-296823333		(\$230,000)	(\$230,000)	\$0
TOTAL SOURCES:	(\$500,000)	(\$230,000)	(\$730,000)	\$0
 <u>USE OF FUNDS</u>				
ADVERTISING 322-04-1110-5233119-203822642	\$2,000	\$0	\$2,000	\$0
ENGINEERING 322-04-1110-5212115-203822642	\$50,150	\$0	\$50,150	
RIGHT OF WAY 322-04-1110-5411120-203822642	\$25,000		\$25,000	
CONSTRUCTION 322-04-1110-5414710-203822642	\$593,000	\$49,000	\$642,000	\$49,000
CONTINGENCY 322-04-1110-6011110-203822642	\$59,850	(\$49,000)	\$10,850	(\$49,000)
TOTAL USES:	\$730,000	\$0	\$730,000	\$0

Blair Construction, Inc.

Post Office Box 770

Evans, Georgia 30809

PHONE (706) 868-1950 FAX (706) 868-1855

BIDDERS QUALIFICATION STATEMENT with Proposed Subcontractors/Suppliers

In the early 1950's Blair L. Mutimer began the Augusta located company Blair Construction. In 1973 the business was incorporated in the State of Georgia as Blair Construction, Inc.

Blair Construction, Inc. has at some time performed grading, paving and underground utility construction for most every municipality within 40 to 50 mile radius of the City of Augusta. The majority of the work we perform is either for the City of Augusta or Columbia County. We have an outstanding and well-respected relationship with both these municipalities.

Our company employs approximately 53 persons and has an average annual revenue of around \$8,000,000. Approximately 80 percent of our work is underground utilities with the other 20 percent being earthwork and base & paving.

Blair Construction, Inc. currently holds a "Certificate Of Qualification (# 2 BL 150)" from the Georgia Department of Transportation with a maximum capacity rating of \$31,300,000.

As established in past projects with the City of Augusta, we have both the experience and means to perform the subject project to which we are bidding.

No Subcontractors will be needed for this project. It will be 100% self performed by Blair Construction, Inc.

Below are qualified Suppliers we propose to utilize for this project.

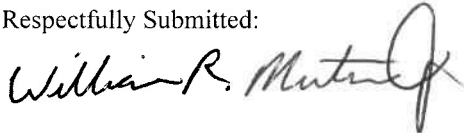
- | | |
|--------------------------------------|--------------------------------|
| ▪ HD Supply (Local Supplier) | for all storm and water piping |
| ▪ Hanson Pipe & Precast | for precast structures |
| ▪ Rinker Materials | for Rip-Rap & GABC |
| ▪ Augusta Ready Mix (Local Supplier) | for Concrete |
| ▪ Reeves Construction | for Asphalt, Prime & Tack |

Listed on the following page are recent projects of similar size and/or nature to which Blair Construction, Inc. has successfully completed.

1. **Rae's Creek Channel Improvements, Phase III**
City of Augusta, GA
Contract Amount: \$907,734.80
2. **Butler Creek Interceptor Upgrade**
City of Augusta, GA
Contract Amount: \$5,400,889.36
3. **Ridge Crossing Drainage Improvements**
Columbia County, GA
Contract Amount: \$950,067.70
4. **Cummings Road Grading and Paving**
Aiken County, SC
Contract Amount: \$514,684.84
5. **36" High Service Water Line**
Columbia County, GA
Contract Amount: \$318,206.84
6. **Highway 25 Wastewater Collection Improvements**
City of Augusta, GA
Contract Amount: \$1,096,770.33
7. **Kissingbower Road Area Water and Sewer Improvements**
City of Augusta, GA
Contract Amount: \$1,633,317.92
8. **North Augusta Connector, Phase I**
Breezy Hill Water & Sewer, SC
Contract Amount: \$1,495,326.58
9. **Olive Road Sanitary Sewer Improvements**
City of Augusta, GA
Contract Amount: \$764,322.37

We appreciate the opportunity to submit our bid on this project and are sure our experience and qualifications will be acceptable. If any other information is needed, please feel free to contact us.

Respectfully Submitted:



William R. Mutimer, Jr., Vice President

Date: _____

12/1/06



ATTACHMENT A

PROPOSED DBE PARTICIPATION

PRIME CONTRACTOR

Blair
Construction, Inc.

PROJECT

Pinnacle Place Drainage
#06-190

DBE FIRM	PRINCIPAL OFFICIAL	ADDRESS/PHONE NO.	TYPE OF WORK	Dollar Value of Work
		N/A		

Total Price:

\$ _____

Total DBE value

\$ N/A

Total DBE percent:

N/A %☒ Contractor will perform 100% of this contract

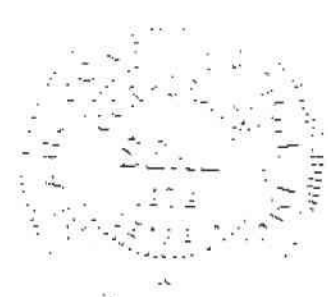
Signed By:

William R. Minton

Title:

Vice President

Date:

12/1/06

Revised 1/24/06

ATTACHMENT B**PROJECT** Pinnacle Place Drainage # 06-190**LETTER OF INTENT TO PERFORM AS A SUBCONSULTANT/SUBCONTRACTOR/SUPPLIER****TO:** Blair Construction, Inc.
(NAME OF PROPOSER)

A. The undersigned intends to perform work in connection with the above project in the following capacity (check one):

☐ An individual
☐ A partnership

☐ A corporation
☐ A joint venture

B. The DBE status of the undersigned is confirmed as follows:

☐ By attachment of a current Certificate of Certification issued by the Department of Transportation

☐ By attachment of a current Certification issued by the Disadvantaged Business Enterprise Office

C. The undersigned is prepared to perform the following work in connection with the above project

N/A

D. The undersigned states that they will be performing _____ % of the total project.

E. The undersigned will sublet and/or award _____ % of this subcontract to non-DBE contractors and /or non-DBE suppliers.

The undersigned will enter into a formal agreement for the above described work with the Proposer cited above conditioned upon the execution of a contract for the project cited herein between the Proposer and Augusta-Richmond County.

Pete S. Diller
Signature of Authorized Representative

By: [Signature]
(DBE Contractor Firm Name)

☐ Contractor will perform 100% of this contract

Signed By: _____

Revised 1/24/06

PINNACLE PLACE SUBDIVISION EROSION AND DRAINAGE IMPROVEMENTS

PROJECT #922-04-203822642

ITEM	DESCRIPTION	UNIT	QTY	ENGINEER'S ESTIMATE		BLAIR CONSTRUCTION CO.		MABUS B
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	
001-1000	FORCE ACCOUNT	LS	1	\$40,000.00	\$40,000.00	\$59,000.00	\$59,000.00	
150-1000	TRAFFIC CONTROL	LS	1	\$2,500.00	\$2,500.00	\$1,800.00	\$1,800.00	
171-0010	TEMPORARY SILT FENCE, TYPE 'A'	LF	1,900	\$5.00	\$9,500.00	\$3.91	\$7,429.00	
207-0203	TYPE II BACKFILL	CY	100	\$25.00	\$2,500.00	\$21.78	\$2,178.00	
210-0100	GRADING COMPLETE	LS	1	\$225,000.00	\$225,000.00	\$158,276.30	\$158,276.30	
230-1000	LUMP SUM CONSTRUCTION	LS	1	\$73,830.00	\$73,830.00	\$28,600.00	\$28,600.00	
310-1101	AGGREGATE SURFACE COURSE	TN	100	\$15.00	\$1,500.00	\$16.55	\$1,655.00	
441-0016	CONC DRIVEWAY, 6"	SY	60	\$55.00	\$3,300.00	\$45.00	\$2,700.00	
441-0104	CONC SIDEWALK, 4"	SY	40	\$35.00	\$1,400.00	\$40.00	\$1,600.00	
441-6012	CONC CURB & GUTTER, 6" X 24", TP 2	LF	1,200	\$12.00	\$14,400.00	\$13.45	\$16,140.00	
500-3800	CLASS A CONC INCLD, REINF STEEL	CY	12	\$750.00	\$9,000.00	\$599.95	\$7,199.40	
550-1180	STORM DRAIN PIPE, RCP, 18" DIA (H1 -10)	LF	35	\$35.00	\$1,225.00	\$36.10	\$1,263.50	
550-1240	STORM DRAIN PIPE, RCP, 24" DIA (H1-10)	LF	230	\$60.00	\$13,800.00	\$48.12	\$11,067.60	
550-1241	STORM DRAIN PIPE, HDPE, 24"DIA (H1-10)	LF	665	\$30.00	\$19,950.00	\$44.94	\$29,885.10	
550-1300	STORM DRAIN PIPE, RCP, 30" DIA (H1-10)	LF	370	\$75.00	\$27,750.00	\$66.39	\$24,564.30	
550-1301	STORM DRAIN PIPE, HDPE, 30" DIA (H1-10)	LF	180	\$35.00	\$6,300.00	\$52.54	\$9,457.20	
550-1360	STORM DRAIN PIPE, RCP, 36" DIA (H1-10)	LF	40	\$125.00	\$5,000.00	\$84.37	\$3,374.80	
550-1361	STORM DRAIN PIPE, HDPE, 36" DIA (H1-10)	LF	240	\$60.00	\$14,400.00	\$68.05	\$16,332.00	
550-1480	SOTM DRAIN PIPE, RCP, 48" DIA (HA-10)	LF	50	\$175.00	\$8,750.00	\$139.88	\$6,994.00	
550-1481	STORM DRAIN PIPE, RCP, 48" DIA (H10-20")	LF	85	\$90.00	\$7,650.00	\$171.36	\$14,565.60	
550-4224	FLARED END SECTION, 24" DIA, RCP	EA	1	\$2,000.00	\$2,000.00	\$1,405.30	\$1,405.30	
603-1018	STONE PLAIN RIP-RAP, 18" TK	SY	50	\$55.00	\$2,750.00	\$41.47	\$2,073.50	

PINNACLE PLACE SUBDIVISION EROSION AND DRAINAGE IMPROVEMENTS

PROJECT #322-04-203622642

ITEM	DESCRIPTION	UNIT	QTY	ENGINEER'S ESTIMATE		BLAIR CONSTRUCTION CO.		MABUS B
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	
803-7000	PLASTIC FILTER FABRIC	SY	50	\$5.00	\$250.00	\$6.60	\$330.00	
610-0200	REMOVE CHAINLINK FENCE, ALL SIZES & TYPES	LF	1,300	\$5.00	\$6,500.00	\$2.75	\$3,575.00	
610-0220	REMOVE WOOD FENCE, ALL SIZES & TYPES	LF	900	\$10.00	\$9,000.00	\$3.30	\$2,970.00	
610-1880	REMOVE STORM DRAIN PIPE	LF	310	\$8.00	\$2,480.00	\$34.05	\$10,555.50	
610-5715	REMOVE CATCH BASIN, DROP INLET OR JUNCTION BOX	EA	5	\$500.00	\$2,500.00	\$312.40	\$1,562.00	
610-5885	REMOVE HEADWALL, ALL SIZES	EA	1	\$500.00	\$500.00	\$330.00	\$330.00	
611-1065	RELAY STORM DRAIN LINE	LF	10	\$25.00	\$250.00	\$36.85	\$368.50	
611-5029	RESET CHAIN LINK FENCE, ALL SIZES & TYPES	LF	800	\$10.00	\$8,000.00	\$6.05	\$4,840.00	
611-5030	RESET WOOD FENCE, ALL SIZES & TYPES	LF	900	\$20.00	\$18,000.00	\$12.65	\$11,385.00	
611-8050	ADJUST MANHOLE TO GRADE	EA	1	\$500.00	\$500.00	\$1,182.50	\$1,182.50	
643-1452	CHAIN LINK FENCE, PVC COATED, 6', 9GA	LF	835	\$15.00	\$12,525.00	\$17.18	\$14,345.30	
643-8030	GATE 12' WIDE, CHAIN LINK, PVC COAT	EA	1	\$1,000.00	\$1,000.00	\$495.00	\$495.00	
668-1100	CATCH BASIN, GP 1	EA	6	\$2,200.00	\$13,200.00	\$2,881.45	\$17,288.70	
668-1110	CATCH BASIN, GP1, ADDITIONAL DEPTH, CLASS 1	LF	5	\$175.00	\$875.00	\$292.50	\$1,462.50	
668-2100	DROP INLET, GAP 1	EA	5	\$2,000.00	\$10,000.00	\$4,505.80	\$22,529.00	
668-2105	DROP INLET, GP1 SPECIAL DESIGN (JB #B3)	EA	1	\$4,000.00	\$4,000.00	\$3,594.50	\$3,594.50	
668-2110	DROP INLET, GP 1, ADDT DEPTH, CLASS 1	LF	1	\$175.00	\$175.00	\$455.00	\$455.00	
668-2111	DROP INLET, GP1, ADDT DEPTH, CLASS 2	LF	7	\$225.00	\$1,575.00	\$487.50	\$3,412.50	
668-4300	STORM SEWER MANHOLE, TYPE 1	EA	7	\$2,000.00	\$14,000.00	\$2,870.76	\$20,095.32	
668-4311	STORM SEWER MANHOLE, TYPE 1, ADDT DEPTH, CLASS 1	LF	10	\$175.00	\$1,750.00	\$195.00	\$1,950.00	
668-4312	STORM SEWER, MANHOLE, TYPE 1, ADDT DEPTH, CALSS 2	LF	6	\$225.00	\$1,350.00	\$260.00	\$1,560.00	
668-4400	STORM SEWER, MANHOLE, TYPE 2	EA	1	\$3,500.00	\$3,500.00	\$4,442.10	\$4,442.10	

PINNACLE PLACE SUBDIVISION EROSION AND DRAINAGE IMPROVEMENTS

PROJECT #322-04-203822642

ITEM	DESCRIPTION	UNIT	QTY	ENGINEER'S ESTIMATE		BLAIR CONSTRUCTION CO.		MABUS B
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	
668-4412	STORM SEWER MANHOLE, TYPE 2, ADDT DEPTH, CLASS 2	LF	7	\$400.00	\$2,800.00	\$325.00	\$2,275.00	
668-5001	JUNCTION BOX (INTERFERENCE BOX)	EA	6	\$1,200.00	\$7,200.00	\$2,930.40	\$17,582.40	
668-5005	JUNCTION BOX -SPECIAL DESIGN (OUTLET STRUCTURE #C1)	EA	1	\$7,500.00	\$7,500.00	\$10,354.50	\$10,354.50	
670-7015	DRAIN INLET, 15"	EA	5	\$1,000.00	\$5,000.00	\$1,045.00	\$5,225.00	
670-1060	WATER MAIN, 6" DIA, DIP	LF	1,000	\$30.00	\$30,000.00	\$29.38	\$29,380.00	
670-1061	MISCELLANEOUS WATER MAIN FITTINGS	LBS	2,500	\$3.00	\$7,500.00	\$3.82	\$9,550.00	
670-2060	GATE VALVE, 6" DIA	EA	2	\$1,500.00	\$3,000.00	\$612.60	\$1,225.20	
670-9710	RELOCATE EXIST. FIRE HYDRANT	EA	1	\$2,500.00	\$2,500.00	\$2,750.00	\$2,750.00	
700-5000	GRASSING COMPLETE (2.85 - ACRE)	LS	1	\$10,000.00	\$10,000.00	\$6,480.00	\$6,480.00	
710-9000	PERMANENT SOIL REINFORCING MAT (FOR CHANNEL AND SLOPE STABILIZATION)	SY	2,500	\$8.00	\$20,000.00	\$8.00	\$20,000.00	

TOTAL:

\$699,935.00

\$641,111.12

Bid Item #06-190
Pinnacle Place Subdivision Erosion & Drainage Improvement
Engineering Department
Bid Due: Friday, December 1, 2006 @ 11:00 a.m.

Vendor	Bid Bond	Total Bid
Reeves Construction P. O. Box 1129 Augusta, GA 30903		
Eagle Utility, 1350 Branch Rd., Bishop, GA 30621		
Blair Construction P. O. Box 770 Evans, GA 30809	Yes	\$ 641,111.12
Mabus Bros. 920 Molly Pond Road Augusta, GA 30901	Yes	\$ 831,814.25

Invitation To Bid

Sealed bids will be received at this office until 11:00 a.m. on Friday, December 1, 2006:

Bid #06-190 Pinnacle Place Subdivision Erosion & Drainage Improvement for Engineering Department

BID's will be received by Augusta, GA Commission hereinafter referred to as the OWNER at the offices of:

Geri A. Sams
Procurement Department
530 Greene Street - Room 605
Augusta, Georgia 30911
706-821-2422

Bidding documents may be examined at the following locations: Office of the Owner; Augusta, GA Procurement Department, 530 Greene Street – Room 605, Augusta, GA 30911. Plans and specifications for the project can be made available upon request to Imaging Technologies. The fees for the plans and specifications which are non-refundable is \$50.00

Documents may also be examined during regular business hours at F. W. Dodge Room, 1281 Broad Street, Augusta, GA 30901 and Augusta Builders Exchange, 1262 Merry Street, Augusta, GA 30904. It is the wish of the Owner that all businesses are given the opportunity to submit on this project. To facilitate this policy, the Owner is providing the opportunity to view plans online (www.itrepro.com) at no charge through Imaging Technologies (706-724-7924) beginning Thursday, October 12, 2006. Bidders are cautioned that submitting a package without review or procurement of a complete set are likely to overlook issues of construction phasing, delivery of goods or services, or coordination with other work that is material to the successful completion of the project. Bidders are cautioned that sequestration of documents through any other source is not advisable. Acquisition of documents from unauthorized sources places the bidder at the risk of receiving incomplete or inaccurate information upon which to base his qualifications.

A Mandatory Pre-Bid Conference will be held on Friday, November 3, 2006 at 10:00 am in Room 605 of the Procurement Department.. All questions must be submitted in writing to the office of the Procurement Department by fax at 706-821-2811 or by mail. No bid will be accepted by fax, all must be received by mail or hand delivered. The last day to submit questions is Tuesday, November 7, 2006 by 4:00 p.m.

The local bidder preference program is applicable to this project. To be approved as a local bidder and receive bid preference on an eligible local project, the certification statement as a local bidder and all supporting documents must be submitted to the Procurement Department with your bonafide bid package.

It is the wish of the Owner that minority businesses are given the opportunity to BID on the various parts of the work. This desire on the part of the Owner is not intended to restrict or limit competitive bidding or to increase the cost of the work. The Owner supports a healthy free market system that seeks to include responsible businesses and provide ample opportunity for business growth and development.

No BID may be withdrawn for a period of **90** days after time has been called on the date of opening. **A 10% Bid bond is required to be submitted in a separate envelope so marked along with the bidders' qualifications; a 100% performance bond and a 100% payment bond will be required for award.**

Bidders will please note that the number of copies requested; all supporting documents including financial statements and references and such other attachments that may be required by the bid are material conditions of the package. Any bid package found incomplete or submitted late shall be rejected by the Procurement Office. Any bidder allegedly contending that he/she has been improperly disqualified from bidding due to an incomplete bid submission shall have the right to appeal to the appropriate committee of the Augusta Commission. Please mark BID number on the outside of the envelope.

Augusta has a Link Deposit program designed to provide loans to eligible local Small, Minority and Women Owned Businesses. For more information about this program contact the Office of the Disadvantage Business Enterprise at 706-821-2406.

GERI A. SAMS, Purchasing Director

Publish:

Augusta Chronicle	October 12, 19, 26, November 3, 2006
Augusta Focus	October 19, 2006

Cc:	Tameka Allen	Interim Deputy Administrator
	Abie Ladson	Engineering Department
	Yvonne Gentry	DBE

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- [Suppliers](#)
- [Account Info](#)

Planholders List

Member Name City of Augusta, GA**Bid Number** ITB-06-190-0-2006/PJM**Bid Name** Pinnacle Place Subdivision Erosion & Drainage Improvement

10 Planholder(s) found.

Supplier Name 	City	State	Phone	Fax
Applied Technology & Management Inc	Gainesville	FL	3523758700	3523750995
Construction Journal, Ltd.	Stuart	FL	8007855165	8005817204
HDR Engineering, Inc.	Atlanta	GA	6787754800	6787754848
McGraw-Hill Construction Dodge	Fort Myers	FL	2399392525	2399392331
McMillan Golf Inc.	richmond hill	GA	9127568446	9127568115
Reed Construction Data	Norcross	GA	8009018687	8775633534
RLK Inc	Duluth	MN	8005203824	0000000000
Tar Heel Specialties Inc.	Linden	NC	9108926133	9108926219
Transportation Systems Design, Inc.	Sandy SPings	GA	4042552220	4042552206
Vastec Group Inc	Augusta	GA	7068286502	7068286505

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TO: Abe Ladsen
Engineering Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Bid Item #06-190 Pinnacle Place Subdivision Erosion & Drainage
Improvements Project**

DATE: January 12, 2007

This memo is to transmit the review and concurrence of the recommended DBE Utilization goal of zero (0%) for the above referenced project. The goal-setting methodology considered the following factors based on good faith efforts of the contractor:

- The project's total estimated cost is \$641,111.12
- There is 0% value of the scope of work where **minority/women businesses** availability exists.
- There is 0% value of the scope of work where **small businesses** availability exists.
- There is 0% value of the scope where **local businesses** availability exists.

No subcontractors will be needed for this project. It will be 100% self performed by Blair Construction.

The contractor must prepare their proposed DBE Utilization Form submittal based on the total dollar value of their base bid. No further adjustments should be made.

The above recommendation is based on information provided at the time of review. If you have any questions, please feel free to contact me at (706) 821-2406.

YG:glw



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Receive Utilities Engineering 2006 Report**

Department: Utilities

Caption: Receive Utilities Engineering 2006 Report to be presented at the meeting.

Background: AUD is constructing many projects, and has reviewed and inspected many projects in 2006.

Analysis: AUD will present a summary report of construction projects from 2006.

Financial Impact: None

Alternatives: None.

Recommendation: Receive Utilities Engineering 2006 Report

Funds are Available in the Following Accounts: No Funds are Required.

REVIEWED AND APPROVED BY:

**Administrator.
Clerk of Commission**



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Recommendation for Engineering Director Position**

Department: Administrator's Office

Caption: Motion to approve the recommendation of Mr. Abie Ladson to the position of Engineering Director.

Background: This position has been sufficiently advertised and has been vacant since. Mr. Ladson was the only responsive qualified candidate for the position.

Analysis: Mr. Ladson meets the qualifications for the position. (Please see the attached resume.)

Financial Impact: N/A

Alternatives: Do not approve the request.

Recommendation: Approve the action as set forth in the caption.

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

**Administrator.
Clerk of Commission**

ABIE L. LADSON, P.E.

OBJECTIVE: To obtain a full-time upper management position in the civil engineering field, with emphasis in the design and construction of transportation and water resources facilities.

CERTIFICATIONS: Professional Engineer, License No. 16699, Iowa
Professional Engineer, License No. 29804, Georgia
Professional Engineer, License No. 24932, South Carolina
Level II: Design Professional Certification, No. 0000010880, Georgia
(*Erosion & Sediment Control Design*)

PROFESSIONAL EXPERIENCE:

Director of Engineering (*Interim*). December 2005 -- Present
Augusta – Richmond County, Augusta, GA.

- ❖ Plans, directs and supervises all departmental activities relative to county engineering and construction functions.
- ❖ Coordinates departmental recommendations, programs and policies with the City Administrator, and Augusta-Richmond County Commissioners.
- ❖ Manages an Engineering budget (*Projects*) of over \$50 million.
- ❖ Develop short and long term departmental plans.
- ❖ Work closely with contractors, developers, engineers, and elected officials (both local and state) to obtain project funding.

Adjunct Faculty. January 2006 – May 2006
Augusta State University, Learning Support Center, Augusta, GA.

- ❖ Lectured the following Math courses:
 - Intermediate Algebra
 - Introductory Algebra

Adjunct Graduate Faculty. August 2004 – December 2005
South Carolina State University, University Transportation Center, Orangeburg, SC.

- ❖ Assisted with University research and lectured for the following graduate level classes:
 - Transportation Engineering.
 - Urban Transportation Policies.
 - Transportation Economics and Finance.
 - Transportation Planning.

Design & Construction Engineer/Manager. November 2003 – Present
Augusta – Richmond County, Augusta, GA.

- ❖ Manage and supervise design and construction staff on various projects with the County.
- ❖ Prepare storm sewer and detention pond analysis and design.
- ❖ Manage projects during the design stage that are contracted to design consultants (drainage, traffic, and roadway projects).
- ❖ Review construction plans during the design stage for quality assurance. Review all plans and specifications to insure concurrence with city and state specifications.
- ❖ Check and approve consultants pay estimate in accordance with the contractual agreement.
- ❖ Perform field observation on various projects during the design and construction phase.
- ❖ Schedule and attend public hearings and made project presentations at public informational meetings as required.
- ❖ Prepare erosion control plans in accordance with National Pollutant Discharge Elimination System (NPDES) standards.
- ❖ Perform field engineering analysis on roadway and storm sewer projects during construction.

Project Manager/Engineer (Transportation). February 2002 – November 2003
CTE Engineers, Inc., Kansas City, MO.

- ❖ Managed and supervised staff on bridge, sewer, storm, and roadway projects.
- ❖ Assisted in preparing PowerPoint presentations to obtain roadway, drainage, sewer, and bridge projects from public entities.
- ❖ Prepared roadway, storm sewer, sanitary sewer, and bridge engineering studies and designs, construction plans, and project specifications.
- ❖ Reviewed construction plans during the design stage for quality assurance.
- ❖ Performed field observation on various projects and potential projects.
- ❖ Marketed for roadway, drainage, sewer, and bridge projects.
- ❖ Prepared cost estimates and schedules (CPM) for bridge, roadway and sewer projects.
- ❖ Checked, approved and process project invoices.

Project Manager/Engineer. October 2000 – February 2002
Sprint (LDD), Overland Park, KS.

- ❖ Prepared engineering designs and specifications for various Local Area Network (LAN) systems.
- ❖ Selected, supervised, and managed contractors during the construction phase for building Call Centers.
- ❖ Scheduled (CPM) design and construction activities to meet critical dates and milestones.
- ❖ Estimated and forecasted design and construction cost for Call Centers.

Project Manager/Transportation Engineer. December 1996 – October 2000

City of Kansas City, Missouri, Kansas City, MO.

- ❖ Estimated and budget street projects for engineering design, land acquisition, and construction within the city limits.
- ❖ Prepared preliminary and final designs for roadways, retaining structures and drainage projects.
- ❖ Prepared legal descriptions and right-of-way plans.
- ❖ Prepared design, land acquisition and construction costs for various bridge, roadway, traffic signal and drainage projects in the design phase.
- ❖ Scheduled project activities during the design phase.
- ❖ Assisted in the interview and selection of design consultants.
- ❖ Assisted in the negotiation of fees and the development of project scopes for the preparation of consultant contracts.
- ❖ Reviewed all plans and specifications to insure concurrence with city and state specifications.
- ❖ Checked and approved consultants pay estimate in accordance with the contractual agreement.
- ❖ Performed field observation on various projects during the design and construction phase.
- ❖ Scheduled and attended public hearings and made project presentations at public informational meetings as required.
- ❖ Prepared bid tabs and obtained the appropriate approvals for the low bidder.

Engineer/Estimator. June 1995 – December 1996

Massman Construction Co., Kansas City, MO.

- ❖ Scheduled construction activities on various projects (CPM).
- ❖ Organized and calculated financial disbursements to subcontractors.
- ❖ Completed cost analysis for various on-site construction activities.
- ❖ Prepared falsework/formwork (Structural) designs.
- ❖ Summarized daily construction activities.
- ❖ Tracked construction quantities for project cost reports and compared the actual cost to the projected cost.
- ❖ Assisted with surveying and field layouts.
- ❖ Estimated, scheduled and arranged the delivery of materials used for construction.
- ❖ Prepared take-off calculations on various bridge, roadway, dam and casino projects.
- ❖ Represented Massman Construction Co. on various business trips while attempting to secure contractual bids.
- ❖ Interpreted various state construction plans and project specifications.

Research Assistant. August 1992 – August 1993

Iowa State University (Civil and Construction Engineering Department), Ames, Iowa.

- ❖ Gathered, analyzed and interpreted vital statistical information used by U.S. contractors prior to entering international markets.

**SPECIAL WORK &
PROJECTS:**

Currently researching and preparing an independent study entitled *"An Assessment of South Carolina State University's Engineering Technology Program."* This project is scheduled to be completed in December 2006 for possible publication (*Independent Study*).

Thesis Committee Member for Antoine G. White. Master of Science in Transportation. Thesis entitled *"A Case Study of Rural Unpaved Roads in South Carolina."* September, 2005.

Thesis Committee Member for Weldon Hammond. Master of Science in Transportation. Thesis entitled *"The Evaluation of Emerging Technologies for Safeguarding Critical Surface Transportation Infrastructures: A Case Study of The Port of Charleston."* October, 2005.

Thesis Committee Member for Phillip J. Lemmon, Jr. Master of Science in Transportation. Thesis entitled *"A Case Study on The Economic Impact of Global Position System Technologies on Sanitation Collection in Charleston, South Carolina."* December, 2005

Thesis Committee Member for Arther L. Love, Jr. Master of Science in Transportation. Thesis entitled *"Analysis of Stress Stimulators Present in Rural Area Drivers Compared to Metro Area Drivers."* April, 2006

EDUCATION:

Master of Science, Civil Engineering, May 1995
Iowa State University of Science and Technology, Ames, Iowa

Bachelor of Science, Civil Engineering Technology, May 1992
South Carolina State University, Orangeburg, South Carolina

Associates of Applied Science, Engineering Technology, May 1989
Denmark Technical College, Denmark, South Carolina

Land Surveying Classes, January 2003 – November 2003
Longview Community College, Kansas City, Missouri

Business Classes, June 2000 – September 2001
Keller Graduate School of Management, Kansas City, Missouri

NOTE: *9 semester hours from completing PhD coursework in Civil Engineering at Iowa State University, Ames, IA.*

**COMPUTER
SKILLS:**

Primavera scheduling software
Microsoft Office Softwares
Microsoft Project
Microsoft PowerPoint

AutoCad 2000
Knowledge of Microsoft Access
Microstation
Visio Drawing software

**HONORS &
ACTIVITIES:**

- A.R. Johnson Engineering Advisory Board (Engineering Magnet High School), 2005
- South Carolina State University Industrial Advisory Committee, 2005
- CTE Performance Excellence Award & Recognition, 2003
- YouthFriends Volunteer, 2003
- APWA (American Public Works Association)
- Kansas Army National Guard, 2002
- Employee of the Month, City of Kansas City, MO, February 1999
- Employee of the Year, City of Kansas City, MO, 1999
- Army Medal of Accommodation, 1998
- Junior Achievement Volunteer, 1998
- Nominated to be 1 of 33 engineers nationwide by Iowa State University Civil and Construction Engineering faculty to travel to Eastern Europe to participate in a technology transfer program, 1996

PUBLICATIONS: "Determining Pertinent Information for an International Construction Database." (MATRIC) Midwest Agribusiness Trade Research and Information Center. 1997.

"I-35 Reconstruction ." Mass-Cot. 1995-96. (Wrote various articles on I-35).

REFERENCES AVAILABLE UPON REQUEST



Engineering Services Committee Meeting

2/6/2007 1:00 PM

Resolution to adopt Revised Soil and Erosion and Sedimentaion Control Ordinance

Department: Planning and Zoning

Caption: Motion to approve Soil Erosion and Sedimentation Control Ordinance.

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

Clerk of Commission

Soil Erosion and Sedimentation Control Ordinance

NOW, THEREFORE, BE IT ORDAINED, BY THE AUGUSTA COMMISSION, AND IT IS HEREBY ORDAINED BY AUTHORITY OF SAME AS FOLLOWS

SECTION I TITLE

This Ordinance will be known as "Augusta Georgia Soil Erosion and Sedimentation Control Ordinance."

SECTION II DEFINITIONS

The following definitions shall apply in the interpretation and enforcement of this Ordinance, unless otherwise specifically stated:

1. **Best Management Practices (BMP's):** A collection of structural practices and vegetative measures which, when properly designed, installed and maintained, will provide effective erosion and sedimentation control. The term "properly designed" means designed in accordance with the hydraulic design specifications contained in the "Manual for Erosion and Sediment Control in Georgia" specified in O.C.G.A. 12-7-6 subsection (b).
2. **Board:** The Board of Natural Resources.
3. **Buffer:** The area of land immediately adjacent to the banks of state waters in its natural state of vegetation, which facilitates the protection of water quality and aquatic habitat.
4. **Commission:** The State Soil & Water Conservation Commission.
5. **Cut:** A portion of land surface or area from which earth has been removed or will be removed by excavation; the depth below original ground surface to excavated surface. Also known as "excavation".
6. **Department:** The Department of Natural Resources.
7. **Developer:** Refers to the person or persons, corporation, or other business applying for a permit to undertake land-disturbing activity and performing development within the scope of this Ordinance.
8. **Development:** Refers to any activity which would alter the elevation of the land, remove or destroy plant life, cause structure of any kind to be installed, erected, or removed, or a change of any kind from conditions existing as of the effective date of this Ordinance unless such activity is exempted under §7-3-33.

9. **Director:** The Director of the Environmental Protection Division of the Department of Natural Resources.
10. **District:** The Brier Creek Soil and Water Conservation District.
11. **Division:** The Environmental Protection Division of the Department of Natural Resources.
12. **Drainage Structure:** A device composed of a virtually nonerodible material such as concrete, steel, plastic or other such material that conveys water from one place to another by intercepting the flow and carrying it to a release point for stormwater management, drainage control, or flood control purposes.
13. **Existing Grade:** The vertical location of the existing ground surface prior to cutting or filling.
14. **Erosion:** The process by which land surface is worn away by the action of wind, water, ice or gravity.
15. **Erosion and Sedimentation Control Plan:** A plan for the control of soil erosion and sedimentation resulting from a land- disturbing activity. Also known as the “plan”.
16. **Fill:** A portion of land surface to which soil or other solid material has been added; the depth above the original ground.
17. **Finished Grade:** The final elevation and contour of the ground after cutting or filling and conforming to the proposed design.
18. **Grading:** Altering the shape of ground surfaces to a predetermined condition; this includes stripping, cutting, filling, stockpiling and shaping or any combination thereof and shall include the land in its cut or filled condition.
19. **Ground Elevation:** The original elevation of the ground surface prior to cutting or filling.
20. **Land-Disturbing Activity:** Any activity which may result in soil erosion from water or wind and the movement of sediments into state waters or onto lands within the state, including, but not limited to, clearing, dredging, grading, excavating, transporting, and filling of land but not including agricultural practices as described in Section III, Paragraph 5.
21. **Larger Common Plan of Development or Sale:** A contiguous area where multiple separate and distinct construction activities are occurring under one plan of development or sale. For the purposes of this paragraph, “plan” means an announcement; piece of documentation such as a sign, public notice or hearing, sales pitch, advertisement,

drawing, permit application, zoning request, or computer design; or physical demarcation such as boundary signs, lot stakes, or surveyor markings, indicating that construction activities may occur on a specific plot.

22. **Local Issuing Authority:** The governing authority of any county or municipality which is certified pursuant to subsection (a) O.C.G.A. 12-7-8. The LIA in Augusta is the Executive Director of the Augusta-Richmond County Planning Commission and the Public Works and Engineering Department is an extension of the LIA with respect to plan review and enforcement.
23. **Metropolitan River Protection Act (MRPA):** A state law referenced as O.C.G.A. 12-5-440 et.seq, which addresses environmental and developmental matters in certain metropolitan river corridors and their drainage basins.
24. **Mulching:** Refers to the application of plant or other suitable materials in the soil surface to conserve moisture, hold soil in place, and aid in establishing plant cover.
25. **Natural Ground Surface:** The ground surface in its original state before any grading, excavation or filling.
26. **Nephelometric Turbidity Units (NTU):** Numerical units of measure based upon photometric analytical techniques for measuring the light scattered by finely divided particles of a substance in suspension. This technique is used to estimate the extent of turbidity in water in which colloiddally dispersed particles are present.
27. **One Hundred Year Flood Plain:** Land in the floodplain subject to a one (1) percent or greater statistical occurrence probability of flooding in any given year.
28. **Operator:** The party or parties that have: (A) operational control of construction project plans and specifications, including the ability to make modifications to those plans and specifications; or (B) day-to-day operational control of those activities that are necessary to ensure compliance with a storm-water pollution prevention plan for the site or other permit conditions, such as a person authorized to direct workers at a site to carry out activities required by the storm-water pollution prevention plan or to comply with other permit conditions.
29. **Permit:** The authorization necessary to conduct a land-disturbing activity under the provisions of this Ordinance.
30. **Person:** Any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, state agency, municipality or other political subdivision of this State, any interstate body or any other legal entity.
31. **Planning Commission:** The Augusta-Richmond County Planning Commission.

32. **Project:** The entire proposed development project regardless of the size of the area of land to be disturbed.
33. **Qualified Personnel:** Any person who meets or exceeds the education and training requirements of O.C.G.A. 12-7-19.
34. **Roadway Drainage Structure:** A device such as a bridge, culvert, or ditch, composed of a virtually nonerodible material such as concrete, steel, plastic, or other such material that conveys water under a roadway by intercepting the flow on one side of a traveled way consisting of one or more defined lanes, with or without shoulder areas, and carrying water to a release point on the other side.
35. **Sediment:** Solid material, both organic and inorganic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, ice, or gravity as a product of erosion.
36. **Sedimentation:** The process by which eroded material is transported and deposited by the action of water, wind, ice or gravity.
37. **Soil and Water Conservation District Approved Plan:** An erosion and sedimentation control plan approved in writing by the Brier Creek Soil and Water Conservation District.
38. **Soil Erosion and Sediment Control Measures:** Refers to mechanical measures used to reshape the land to intercept, divert, convey, retard, or otherwise control runoff, including, but not limited to, land grading, bench terraces, subsurface drains, diversions, berms, storm sewers, outlets, waterway stabilization structures, lines channels, sediment and debris basin, and stream channel and bank stabilization; and vegetative measures to provide temporary cover to help control erosion during construction and permanent cover to stabilize the site after construction is complete.
39. **Soil Erosion and Sediment Control Plan or Plans:** Refers to the plan for the control of soil erosion and sedimentation resulting from land disturbing activities.
409. **Stabilization:** The process of establishing an enduring soil cover of vegetation by the installation of temporary or permanent structures for the purpose of reducing to a minimum the erosion process and the resultant transport of sediment by wind, water, ice or gravity.
41. **State General Permit:** The National Pollution Discharge Elimination System general permit or permits for stormwater runoff from construction activities as is now in effect or as may be amended or reissued in the future pursuant to the state's authority to implement the same through federal delegation under the Federal Water Pollution Control Act, as amended, 33 U.S.C. Section 1251, et seq., and subsection (f) of Code Section 12-5-30.

42. **State Waters:** Any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, wells, and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.
43. **Structural Erosion and Sedimentation Control Practices:** Practices for the stabilization of erodible or sediment producing areas by utilizing the mechanical properties of matter for the purpose of either changing the surface of the land or storing, regulating or disposing of runoff to prevent excessive sediment loss. Examples of structural erosion and sediment control practices are riprap, sediment basins, dikes, level spreaders, waterways or outlets, diversions, grade stabilization structures, sediment traps and land grading, etc. Such practices can be found in the publication *Manual for Erosion and Sediment Control in Georgia*.
44. **Trout Streams:** All streams or portions of streams within the watershed as designated by the Game and Fish Division of the Georgia Department of Natural Resources under the provisions of the Georgia Water Quality Control Act, O.C.G.A. 12-5-20 et. seq. Streams designated as primary trout waters are defined as water supporting a self- sustaining population of rainbow, brown or brook trout. Streams designated as secondary trout waters are those in which there is no evidence of natural trout reproduction, but are capable of supporting trout throughout the year. First order trout waters are streams into which no other streams flow except springs.
45. **Vegetative Erosion and Sedimentation Control Measures:** Measures for the stabilization of erodible or sediment producing areas by covering the soil with:
- a. Permanent seeding, sprigging or planting, producing long-term vegetative cover; or
 - b. Temporary seeding, producing short-term vegetative cover; or
 - c. Sodding, covering areas with a turf of perennial sod forming grass.
- Such measures can be found in the publication *Manual for Erosion and Sediment Control in Georgia*.
46. **Watercourse:** Any natural or artificial watercourse, stream, river, creek, channel, ditch, canal, conduit, culvert, drain, waterway, gully, ravine, or wash in which water flows either continuously or intermittently and which has a definite channel, bed and banks, and including any area adjacent thereto subject to inundation by reason of overflow or floodwater.
47. **Wetlands:** Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

SECTION III EXEMPTIONS

This Ordinance shall apply to any land disturbing activity undertaken by any person on any land except for the following:

1. Surface mining, as the same is defined in O.C.G.A. 12-4-72, "Mineral Resources and Caves Act";
2. Granite quarrying and land clearing for such quarrying;
3. Such minor land-disturbing activities as home gardens and individual home landscaping, repairs, maintenance work, fences, and other related activities which result in minor soil erosion;
4. The construction of single-family residences, when such construction disturbs less than one acre and is not a part of a larger common plan of development or sale with a planned disturbance of equal to or greater than one acre and not otherwise exempted under this paragraph; provided, however, that construction of any such residence shall conform to the minimum requirements as set forth in Section IV of this Ordinance and this paragraph. For single-family residence construction covered by the provisions of this paragraph, there shall be a buffer zone between the residence and any state waters classified as trout streams pursuant to Article 2 of Chapter 5 of the Georgia Water Quality Control Act. In any such buffer zone, no land-disturbing activity shall be constructed between the residence and the point where vegetation has been wrested by normal stream flow or wave action from the banks of the trout waters. For primary trout waters, the buffer zone shall be at least 50 horizontal feet, and no variance to a smaller buffer shall be granted. For secondary trout waters, the buffer zone shall be at least 50 horizontal feet, but the Director may grant variances to no less than 25 feet. Regardless of whether a trout stream is primary or secondary, for first order trout waters, which are streams into which no other streams flow except for springs, the buffer shall be at least 25 horizontal feet, and no variance to a smaller buffer shall be granted. The minimum requirements of Section IV of this Ordinance and the buffer zones provided by this section shall be enforced by the Local Issuing Authority;
5. Agricultural operations as defined in O.C.G.A. 1-3-3, "definitions", to include raising, harvesting or storing of products of the field or orchard; feeding, breeding or managing livestock or poultry; producing or storing feed for use in the production of livestock, including but not limited to cattle, calves, swine, hogs, goats, sheep, and rabbits or for use in the production of poultry, including but not limited to chickens, hens and turkeys; producing plants, trees, fowl, or animals; the production of aqua culture, horticultural, dairy, livestock, poultry, eggs and apiarian products; farm buildings and farm ponds;
6. Forestry land management practices, including harvesting; provided, however, that when such exempt forestry practices cause or result in land-disturbing or other activities otherwise prohibited in a buffer, as established in paragraphs (15) and (16) of Section IV

C. of this Ordinance, no other land-disturbing activities, except for normal forest management practices, shall be allowed on the entire property upon which the forestry practices were conducted for a period of three years after completion of such forestry practices;

7. Any project carried out under the technical supervision of the Natural Resources Conservation Service of the United States Department of Agriculture;
8. Any project involving less than one acre of disturbed area; provided, however, that this exemption shall not apply to any land-disturbing activity within a larger common plan of development or sale with a planned disturbance of equal to or greater than one acre or within 200 feet of the bank of any state waters, and for purposes of this paragraph, "State Waters" excludes channels and drainageways which have water in them only during and immediately after rainfall events and intermittent streams which do not have water in them year- round; provided, however, that any person responsible for a project which involves less than one acre, which involves land-disturbing activity, and which is within 200 feet of any such excluded channel or drainageway, must prevent sediment from moving beyond the boundaries of the property on which such project is located and provided, further, that nothing contained herein shall prevent the Local Issuing Authority from regulating any such project which is not specifically exempted by paragraphs 1, 2, 3, 4, 5, 6, 7, 9 or 10 of this section;
9. Construction or maintenance projects, or both, undertaken or financed in whole or in part, or both, by the Department of Transportation, the Georgia Highway Authority, or the State Tollway Authority; or any road construction or maintenance project, or both, undertaken by any county or municipality; provided, however, that construction or maintenance projects of Department of Transportation or State Tollway Authority which disturb one or more contiguous acres of land shall be subject to provisions of O.C.G.A. 12-7-7.1; except where the Department of Transportation, the Georgia Highway Authority, or the State Road and Tollway Authority is a secondary permittee for a project located within a larger common plan of development or sale under the state general permit, in which case a copy of a notice of intent under the state general permit shall be submitted to the Local Issuing Authority, the Local Issuing Authority shall enforce compliance with the minimum requirements set forth in O.C.G.A. 12-7-6 as if a permit had been issued, and violations shall be subject to the same penalties as violations by permit holders;
10. Any land-disturbing activities conducted by any electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in O.C.G.A. 36-18-1, or any agency or instrumentality of the United States engaged in the generation, transmission, or distribution of power; except where an electric membership corporation or municipal electrical system or any public utility under the regulatory jurisdiction of the Public Service Commission, any utility under the regulatory jurisdiction of the Federal Energy Regulatory Commission, any cable television system as defined in O.C.G.A. 36-

18-1, or any agency or instrumentality of the United States engaged in the generation, transmission, or distribution of power is a secondary permittee for a project located within a larger common plan of development or sale under the state general permit, in which case the Local Issuing Authority shall enforce compliance with the minimum requirements set forth in O.C.G.A. 12-7-6 as if a permit had been issued, and violations shall be subject to the same penalties as violations by permit holders; and

11. Any public water system reservoir.

SECTION IV

MINIMUM REQUIREMENTS FOR EROSION AND SEDIMENTATION CONTROL USING BEST MANAGEMENT PRACTICES

A. GENERAL PROVISIONS

Excessive soil erosion and resulting sedimentation can take place during land-disturbing activities. Therefore, plans for those land-disturbing activities which are not exempted by this Ordinance shall contain provisions for application of soil erosion and sedimentation control measures and practices. The provisions shall be incorporated into the erosion and sedimentation control plans. Soil erosion and sedimentation control measures and practices shall conform to the minimum requirements of Section IV B. & C. of this Ordinance. The application of measures and practices shall apply to all features of the site, including street and utility installations, drainage facilities and other temporary and permanent improvements. Measures shall be installed to prevent or control erosion and sedimentation pollution during all stages of any land disturbing activity.

B. MINIMUM REQUIREMENTS/BMPs

1. Best management practices as set forth in Section IV B. & C. of this Ordinance shall be required for all land-disturbing activities. Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action by the Director or to any other allegation of noncompliance with paragraph (2) of this subsection or any substantially similar terms contained in a permit for the discharge of stormwater issued pursuant to subsection (f) of O.C.G.A. 12-5-30, the "Georgia Water Quality Control Act". As used in this subsection the terms "proper design" and "properly designed" mean designed in accordance with the hydraulic design specifications contained in the "Manual for Erosion and Sediment Control in Georgia" specified in O.C.G.A. 12-7-6 subsection (b).
2. A discharge of stormwater runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation of any land disturbing permit issued by a Local Issuing Authority or of any state general permit issued by the Division pursuant to subsection (f) of O.C.G.A. 12-5-30, the "Georgia Water Quality Control Act", for each day on which such discharge results in the turbidity of receiving waters being increased by more than 25 nephelometric turbidity units for waters supporting warm water fisheries or by more than ten nephelometric turbidity units for waters classified as trout waters. The turbidity of the receiving waters

shall be measured in accordance with guidelines to be issued by the Director. This paragraph shall not apply to any land disturbance associated with the construction of single family homes which are not part of a larger common plan of development or sale unless the planned disturbance for such construction is equal to or greater than five acres.

3. Failure to properly design, install, or maintain best management practices shall constitute a violation of any land-disturbing permit issued by a Local Issuing Authority or of any state general permit issued by the Division pursuant to subsection (f) of Code Section 12-5-30, the "Georgia Water Quality Control Act", for each day on which such failure occurs.
4. The Director may require, in accordance with regulations adopted by the Board, reasonable and prudent monitoring of the turbidity level of receiving waters into which discharges from land disturbing activities occur.
- C. The rules and regulations, ordinances, or resolutions adopted pursuant to this chapter for the purpose of governing land-disturbing activities shall require, as a minimum, protections at least as stringent as the state general permit; and best management practices, including sound conservation and engineering practices to prevent and minimize erosion and resultant sedimentation, which are consistent with, and no less stringent than, those practices contained in the *Manual for Erosion and Sediment Control in Georgia* published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, as well as the following:
 1. Stripping of vegetation, regrading and other development activities shall be conducted in a manner so as to minimize erosion;
 2. Cut-fill operations must be kept to a minimum;
 3. Development plans must conform to topography and soil type so as to create the lowest practical erosion potential;
 4. Whenever feasible, natural vegetation shall be retained, protected and supplemented;
 5. The disturbed area and the duration of exposure to erosive elements shall be kept to a practicable minimum;
 6. Disturbed soil shall be stabilized as quickly as practicable;
 7. Temporary vegetation or mulching shall be employed to protect exposed critical areas during development;
 8. Permanent vegetation and structural erosion control practices shall be installed as soon as practicable;

9. To the extent necessary, sediment in run-off water must be trapped by the use of debris basins, sediment basins, silt traps, or similar measures until the disturbed area is stabilized. As used in this paragraph, a disturbed area is stabilized when it is brought to a condition of continuous compliance with the requirements of O.C.G.A. 12-7-1 et. seq.;
10. Adequate provisions must be provided to minimize damage from surface water to the cut face of excavations or the sloping of fills;
11. Cuts and fills may not endanger adjoining property;
12. Fills may not encroach upon natural watercourses or constructed channels in a manner so as to adversely affect other property owners;
13. Grading equipment must cross flowing streams by means of bridges or culverts except when such methods are not feasible, provided, in any case, that such crossings are kept to a minimum;
14. Land-disturbing activity plans for erosion and sedimentation control shall include provisions for treatment or control of any source of sediments and adequate sedimentation control facilities to retain sediments on-site or preclude sedimentation of adjacent waters beyond the levels specified in Section IV B. 2. of this Ordinance
15. Except as provided in paragraph (16) of this subsection, there is established a 25 foot buffer along the banks of all state waters, as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, except where the Director determines to allow a variance that is at least as protective of natural resources and the environment, where otherwise allowed by the Director pursuant to O.C.G.A. 12-2-8, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications, and are implemented; provided, however, the buffers of at least 25 feet established pursuant to part 6 of Article 5, Chapter 5 of Title 12, the "Georgia Water Quality Control Act", shall remain in force unless a variance is granted by the Director as provided in this paragraph. The following requirements shall apply to any such buffer:
 - a. No land-disturbing activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed state of vegetation until all land disturbing activities on the construction site are completed. Once the final stabilization of the site is achieved, a buffer may be thinned or trimmed of vegetation as long as a protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed; provided, however, that any person constructing a single family residence, when such

residence is constructed by or under contract with the owner for his or her own occupancy, may thin or trim vegetation in a buffer at any time as long as protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed; and

- b. The buffer shall not apply to the following land-disturbing activities, provided that they occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream; cause a width of disturbance of not more than 50 feet within the buffer; and adequate erosion control measures are incorporated into the project plans and specifications and are implemented: (i) Stream crossings for water lines; or (ii) Stream crossings for sewer lines; and
16. There is established a 50 foot buffer as measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action, along the banks of any state waters classified as "trout streams" pursuant to Article 2 of Chapter 5 of Title 12, the "Georgia Water Quality Control Act", except where a roadway drainage structure must be constructed ; provided, however, that small springs and streams classified as trout streams which discharge an average annual flow of 25 gallons per minute or less shall have a 25 foot buffer or they may be piped, at the discretion of the landowner, pursuant to the terms of a rule providing for a general variance promulgated by the Board, so long as any such pipe stops short of the downstream landowner's property and the landowner complies with the buffer requirement for any adjacent trout streams. The Director may grant a variance from such buffer to allow land-disturbing activity, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented. The following requirements shall apply to such buffer:
- a. No land-disturbing activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all land disturbing activities on the construction site are completed. Once the final stabilization of the site is achieved, a buffer may be thinned or trimmed of vegetation as long as a protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed: provided, however, that any person constructing a single- family residence, when such residence is constructed by or under contract with the owner for his or her own occupancy, may thin or trim vegetation in a buffer at any time as long as protective vegetative cover remains to protect water quality and aquatic habitat and a natural canopy is left in sufficient quantity to keep shade on the stream bed; and
 - b. The buffer shall not apply to the following land-disturbing activities, provided that they occur at an angle, as measured from the point of crossing, within 25 degrees of perpendicular to the stream; cause a width of disturbance of not

more than 50 feet within the buffer; and adequate erosion control measures are incorporated into the project plans and specifications and are implemented: (i) Stream crossings for water lines; or (ii) Stream crossings for sewer lines.

- D. Nothing contained in this chapter shall prevent any Local Issuing Authority from adopting rules and regulations, Ordinances, or resolutions which contain stream buffer requirements that exceed the minimum requirements in Section IV B. & C. of this Ordinance.
- E. The fact that land-disturbing activity for which a permit has been issued results in injury to the property of another shall neither constitute proof of nor create a presumption of a violation of the standards provided for in this Ordinance or the terms of the permit.

SECTION V

APPLICATION/PERMIT PROCESS

A. GENERAL

The property owner, developer and designated planners and engineers shall review the general development plans and detailed plans of the Local Issuing Authority that affect the tract to be developed and the area surrounding it. They shall review the Zoning Ordinance, Stormwater Management Ordinance, Subdivision Ordinance, Flood Damage Prevention Ordinance, this Ordinance, and other ordinances which regulate the development of land within the jurisdictional boundaries of the Local Issuing Authority. However, the operator is the only party who may obtain a permit.

B. APPLICATION REQUIREMENTS

1. No person shall conduct any land disturbing activity within the jurisdictional boundaries of Augusta Georgia without first obtaining a permit from the Augusta-Richmond County Planning Commission to perform such activity.
2. The application for a permit shall be submitted to the Augusta Richmond County Planning Commission and must include the applicant's erosion and sedimentation control plan with supporting data, as necessary. Said plans shall include, as a minimum, the data specified in Section V C. of this Ordinance. Soil erosion and sedimentation control plans shall conform to the provisions of Section IV B. & C. of this Ordinance. Applications for a permit will not be accepted unless accompanied by (6) copies of the applicant's soil erosion and sedimentation control plans. All applications shall contain a certification stating that the plan preparer or the designee thereof visited the site prior to creation of the plan or that such a visit was not required in accordance with rules and regulations established by the board.
3. In addition to the local permitting fees, fees will also be assessed pursuant to paragraph (5) subsection (a) of O.C.G.A. 12-5-23, provided that such fees shall not exceed \$80.00 per acre of land disturbing activity, and these fees shall be calculated and paid by the primary permittee as defined in the state general permit for each acre of land-disturbing activity included in the planned development or each phase of development. All

applicable fees shall be paid prior to issuance of the land disturbance permit. In a jurisdiction that is certified pursuant to subsection (a) of O.C.G.A. 12-7-8 half of such fees levied shall be submitted to the division; except that any and all fees due from an entity which is required to give notice pursuant to paragraph (9) or (10) of O.C.G.A. 12-7-17 shall be submitted in full to the division, regardless of the existence of a Local Issuing Authority in the jurisdiction.

4. Immediately upon receipt of an application and plan for a permit, the Local Issuing Authority shall refer the application and plan to the District for its review and approval or disapproval concerning the adequacy of the erosion and sedimentation control plan. A District shall approve or disapprove a plan within 35 days of receipt. Failure of a District to act within 35 days shall be considered an approval of the pending plan. The results of the District review shall be forwarded to the Local Issuing Authority. No permit will be issued unless the plan has been approved by the District, and any variances required by Section IV C. 15. & 16 and bonding, if required as per Section V B.5. (b), have been obtained. Such review will not be required if the Local Issuing Authority and the District have entered into an agreement which allows the Local Issuing Authority to conduct such review and approval of the plan without referring the application and plan to the District.
5. If a permit applicant has had two or more violations of previous permits, this Ordinance section, or the Erosion and Sedimentation Act, as amended, within three years prior to the date of filing of the application under consideration, the Local Issuing Authority may deny the permit application.
6. The Local Issuing Authority may require the permit applicant to post a bond in the form of government security, cash, irrevocable letter of credit, or any combination thereof up to, but not exceeding, \$3,000.00 per acre or fraction thereof of the proposed land-disturbing activity, prior to issuing the permit. If the applicant does not comply with this Ordinance or with the conditions of the permit after issuance, the Local Issuing Authority may call the bond or any part thereof to be forfeited and may use the proceeds to hire a contractor to stabilize the site of the land-disturbing activity and bring it into compliance. These provisions shall not apply unless there is in effect an ordinance or statute specifically providing for hearing and judicial review of any determination or order of the Local Issuing Authority with respect to alleged permit violations.

C. PLAN REQUIREMENTS

1. Plans must be prepared to meet the minimum requirements as contained in Section IV B. & C. of this Ordinance. Conformance with the minimum requirements may be attained through the use of design criteria in the current issue of the *Manual for Erosion and Sediment Control in Georgia*, published by the State Soil and Water Conservation Commission as a guide; or through the use of more stringent, alternate design criteria which conform to sound conservation and engineering practices. The *Manual for Erosion and Sediment Control in Georgia* is hereby incorporated by reference into this Ordinance. The plan for the land-disturbing activity shall consider the interrelationship of the soil types, geological and hydrological characteristics, topography, watershed, vegetation, proposed permanent structures including roadways,

constructed waterways, sediment control and storm water management facilities, local ordinances and State laws.

2. Data Required for Site Plan

- a. Narrative or notes, and other information: Notes or narrative to be located on the site plan in general notes or in erosion and sediment control notes.
- b. Description of existing land use at project site and description of proposed project.
- c. Name, address, and phone number of the property owner.
- d. Name and phone number of 24-hour local contact who is responsible for erosion and sedimentation controls.
- e. Size of project, or phase under construction, in acres.
- f. Activity schedule showing anticipated starting and completion dates for the project. Include the statement in **bold letters**, that “the installation of erosion and sedimentation control measures and practices shall occur prior to or concurrent with land disturbing activities.”
- g. Stormwater and sedimentation management systems-storage capacity, hydrologic study, and calculations, including off-site drainage areas.
- h. Vegetative plan for all temporary and permanent vegetative measures, including species, planting dates, and seeding, fertilizer, lime, and mulching rates. The vegetative plan should show options for year-round seeding.
- i. Detail drawings for all structural practices. Specifications may follow guidelines set forth in the *Manual for Erosion and Sediment Control in Georgia*.
- j. Maintenance statement - “Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion and sediment control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.”

3. Maps, drawings, and supportive computations shall bear the signature/seal of a registered or certified professional in engineering, architecture, landscape architecture, land surveying, or erosion and sedimentation control. After December 31, 2006, all persons involved in land development design, review, permitting, construction, monitoring, or inspection or any land-disturbing activity shall meet the education and training certification requirements as developed by the commission pursuant to O.C.G.A. 12-7-20. The certified plans shall contain:

- a. Graphic scale and north point or arrow indicating magnetic north.
- b. Vicinity maps showing location of project and existing streets.
- c. Boundary line survey.
- d. Delineation of disturbed areas within project boundary.
- e. Existing and planned contours, with an interval in accordance with the following:

Map Scale	Ground Slope	Contour Interval, ft.
1 inch = 100 ft.	Flat 0-2%	0.5 or 1
or larger scale	Rolling 2-8%	1 or 2
	Steep 8% +	2, 5 or 10

- f. Adjacent areas and feature areas such as streams, lakes, residential areas, etc. which might be affected should be indicated on the plan.
 - g. Proposed structures or additions to existing structures and paved areas.
 - h. Delineate the 25-foot horizontal buffer adjacent to state waters and the specified width in MRPA areas.
 - i. Delineate the specified horizontal buffer along designated trout streams, where applicable.
 - j. Location of erosion and sedimentation control measures and practices using coding symbols from the *Manual for Erosion and Sediment Control in Georgia*, Chapter 6.
4. Maintenance of all soil erosion and sedimentation control practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.
 5. Plot plans for single family homes on individual lots shall illustrate the best management practices the contractor will implement during construction to prevent soil erosion and damage to adjoining properties as a result of erosion; the plot plan shall illustrate positive storm water drainage to an existing storm water structure; and the plot plan shall illustrate the method for permanently stabilizing the disturbed soil upon completion of construction.

The following shall be illustrated on residential plot plans.

- a. Contractors name.
- b. Street name and property address
- c. Lot dimensions drawn to scale
- d. All drainage and utility easements

- e. Existing drainage swales
- f. Footprint of building
- g. Building setback dimensions
- h. Best management practices to be implemented:
 - 1. Sediment barriers
 - 2. Proposed drainage swales
 - 3. Construction exit
 - 4. Maintenance
- i. Positive storm water drainage from the lot to an existing storm water structure. direction of flow to be indicated by arrows. Existing storm water structure includes paved streets, drainage structure inlets, drainage ditches, and swales.
- j. How disturbed soils will be permanently stabilized.
- k. 100-Year floodplain data
- l. Existing structures on property.
- m. Wetlands data
- n. Distance to any stream, creek or water body on or adjacent to (within 200 feet of) the proposed site.
- o. Delineate 25 feet state water buffer, as applicable.

D. PERMITS

- 1. Permits shall be issued or denied as soon as practicable but in any event not later than forty-five (45) days after receipt by the Local Issuing Authority of a completed application, providing variances and bonding are obtained, where necessary.
- 2. No permit shall be issued by the Local Issuing Authority unless the erosion and sedimentation control plan has been approved by the District and the Local Issuing Authority has affirmatively determined that the plan is in compliance with this Ordinance, any variances required by Section IV C. 15. & 16 are obtained, bonding requirements, if necessary, as per Section V B. 5. (b) are met and all ordinances and rules and regulations in effect within the jurisdictional boundaries of the Local Issuing

Authority are met. If the permit is denied, the reason for denial shall be furnished to the applicant.

3. If the tract is to be developed in phases, then a separate permit shall be required for each phase.
4. The permit may be suspended, revoked, or modified by the Local Issuing Authority, as to all or any portion of the land affected by the plan, upon finding that the holder or his successor in the title is not in compliance with the approved erosion and sedimentation control plan or that the holder or his successor in title is in violation of this Ordinance. A holder of a permit shall notify any successor in title to him as to all or any portion of the land affected by the approved plan of the conditions contained in the permit.
5. No permit shall be issued unless the applicant provides a statement by the Richmond County Tax Commissioner certifying that all ad valorem taxes levied against the property and due and owing have been paid.

SECTION VI

INSPECTION AND ENFORCEMENT

- A. As an extension of the LIA the Augusta Public Works and Engineering Department will periodically inspect the sites of land-disturbing activities for which permits have been issued to determine if the activities are being conducted in accordance with the plan and if the measures required in the plan are effective in controlling erosion and sedimentation. Also, the Local Issuing Authority shall regulate both primary and secondary permittees as such terms are defined in the state general permit. Primary permittees shall be responsible for installation and maintenance of best management practices where the primary permittee is conducting land-disturbing activities. Secondary permittees shall be responsible for installation and maintenance of best management practices where the secondary permittee is conducting land-disturbing activities. If, through inspection, it is deemed that a person engaged in land-disturbing activities as defined herein has failed to comply with the approved plan, with permit conditions, or with the provisions of this Ordinance, a written notice to comply shall be served upon that person. The notice shall set forth the measures necessary to achieve compliance and shall state the time within which such measures must be completed. If the person engaged in the land-disturbing activity fails to comply within the time specified, he shall be deemed in violation of this Ordinance.
1. Residential Construction of Individual Lots: The License and Inspection Department will inspect for compliance with this Ordinance for residential construction on individual lots. If a project is deemed not to be in compliance with the approved plot plan, the contractor will be issued a written notice to comply with the approved plot plan. The notice shall set forth the measures necessary to achieve compliance and shall state the time within which such measures must be completed. If the contractor engaged in the land disturbing activity fails to comply within the time specified, he shall be deemed

in violation of this chapter.

- B. The Augusta Public Works and Engineering Department as an extension of the LIA shall have the power to conduct such investigations as it may reasonably deem necessary to carry out duties as prescribed in this Ordinance, and for this purpose to enter at reasonable times upon any property, public or private, for the purpose of investigation and inspecting the sites of land-disturbing activities.
- C. No person shall refuse entry or access to any authorized representative or agent of the Local Issuing Authority, the Commission, the District, or Division who requests entry for the purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper or interfere with any such representative while in the process of carrying out his official duties.
- D. The Districts or the Commission or both shall periodically review the actions of counties and municipalities which have been certified as Local Issuing Authorities pursuant to O.C.G.A. 12-7-8 (a). The Districts or the Commission or both may provide technical assistance to any county or municipality for the purpose of improving the effectiveness of the county's or municipality's erosion and sedimentation control program. The Districts or the Commission shall notify the Division and request investigation by the Division if any deficient or ineffective local program is found.
- E. The Board, on or before December 31, 2003, shall promulgate rules and regulations setting forth the requirements and standards for certification and the procedures for decertification of a Local Issuing Authority. The Division may periodically review the actions of counties and municipalities which have been certified as Local Issuing Authorities pursuant to Code Section 12-7-8 (a). Such review may include, but shall not be limited to, review of the administration and enforcement of a governing authority's Ordinance and review of conformance with an agreement, if any, between the District and the governing authority. If such review indicates that the governing authority of any county or municipality certified pursuant to O.C.G.A. 12-7-8 (a) has not administered or enforced its ordinances or has not conducted the program in accordance with any agreement entered into pursuant to O.C.G.A. 12-7-7 (e), the Division shall notify the governing authority of the county or municipality in writing. The governing authority of any county or municipality so notified shall have 30 days within which to take the necessary corrective action to retain certification as a Local Issuing Authority. If the county or municipality does not take necessary corrective action within 30 days after notification by the Division, the Division may revoke the certification of the county or municipality as a Local Issuing Authority.

SECTION VII

PENALTIES AND INCENTIVES

A. FAILURE TO OBTAIN A PERMIT FOR LAND-DISTURBING ACTIVITY

If any person commences any land disturbing activity requiring a land disturbing permit as prescribed in this Ordinance without first obtaining said permit, the person shall be subject to

revocation of his business license, work permit or other authorization for the conduct of a business and associated work activities within the jurisdictional boundaries of the Local Issuing Authority.

B. STOP-WORK ORDERS

1. For the first violation of the provisions of this Ordinance, the Director or the Local Issuing Authority shall issue a written warning to the violator. The violator shall have five days to correct the violation. If the violation is not corrected within five days, the Director or the Local Issuing Authority shall issue a Stop-Work Order requiring that land-disturbing activities be stopped until necessary corrective action or mitigation has occurred; provided, however, that, if the violation presents an imminent threat to public health or waters of the state or if the land-disturbing activities are conducted without obtaining the necessary permit, the Director or the Local Issuing Authority shall issue an immediate Stop-Work Order in lieu of a warning;
2. For a second and each subsequent violation, the Director or the Local Issuing Authority shall issue an immediate Stop-Work Order; and;
3. All Stop-Work Orders shall be effective immediately upon issuance and shall be in effect until the necessary corrective action or mitigation has occurred.
4. When a violation in the form of taking action without a permit, failure to maintain a stream buffer, or significant amounts of sediment, as determined by the Local Issuing Authority or by the Director or his or her designee, have been or are being discharged into state waters and where best management practices have not been properly designed, installed, and maintained, a stop work order shall be issued by the Local Issuing Authority or by the Director or his or her designee. All such stop work orders shall be effective immediately upon issuance and shall be in effect until the necessary corrective action or mitigation has occurred. Such stop work orders shall apply to all land-disturbing activity on the site with the exception of the installation and maintenance of temporary or permanent erosion and sediment controls.

C. BOND FORFEITURE

If, through inspection, it is determined that a person engaged in land-disturbing activities has failed to comply with the approved plan, a written notice to comply shall be served upon that person. The notice shall set forth the measures necessary to achieve compliance with the plan and shall state the time within which such measures must be completed. If the person engaged in the land-disturbing activity fails to comply within the time specified, he shall be deemed in violation of this Ordinance and, in addition to other penalties, shall be deemed to have forfeited his Performance Bond, if required to post one under the provisions of Section V B. 5. (b). The Local Issuing Authority may call the bond or any part thereof to be forfeited and may use the proceeds to hire a contractor to stabilize the site of the land-disturbing activity and bring it into compliance.

D. MONETARY PENALTIES

1. Any person who violates any provisions of this Ordinance, or any permit condition or limitation established pursuant to this Ordinance, or who negligently or intentionally fails or refuses to comply with any final or emergency order of the Director issued as provided in this Ordinance shall be liable for a civil penalty not to exceed \$2,500.00 per day. For the purpose of enforcing the provisions of this Ordinance, notwithstanding any provisions in any City charter to the contrary, municipal courts shall be authorized to impose penalty not to exceed \$2,500.00 for each violation. Notwithstanding any limitation of law as to penalties which can be assessed for violations of county ordinances, any magistrate court or any other court of competent jurisdiction trying cases brought as violations of this Ordinance under county ordinances approved under this Ordinance shall be authorized to impose penalties for such violations not to exceed \$2,500.00 for each violation. Each day during which violation or failure or refusal to comply continues shall be a separate violation.
2. Under provision of this section, any person who continues to violate, knowingly and intentionally becoming a habitual violator on the same or different site will be liable for a civil penalty not to exceed \$2,500.00 per day.
3. Penalties, less court costs, shall be returned to the Local Issuing Authority and deposited into the NPDES account.

SECTION VIII EDUCATION AND CERTIFICATION

After December 31, 2006, all persons involved in land development design, review, permitting, construction, monitoring, or inspection or any land disturbing activity shall meet the education and training certification requirements, dependent on their level of involvement with the process, as developed by the Commission in consultation with the Division and the Stakeholder Advisory Board created pursuant to O.C.G.A. 12-7-20.

SECTION IX ADMINISTRATIVE APPEAL JUDICIAL REVIEW

A. ADMINISTRATIVE REMEDIES

The suspension, revocation, modification or grant with condition of a permit by the Local Issuing Authority upon finding that the holder is not in compliance with the approved erosion and sediment control plan; or that the holder is in violation of permit conditions; or that the holder is in violation of any Ordinance; shall entitle the person submitting the plan or holding the permit to a hearing before the Augusta Commission within thirty (30) days after receipt by the Local Issuing Authority of written notice of appeal.

B. JUDICIAL REVIEW

Any person, aggrieved by a decision or order of the Local Issuing Authority, after exhausting his administrative remedies, shall have the right to appeal denovo to the Superior Court of Richmond County, Georgia.

SECTION X

EFFECTIVITY, VALIDITY AND LIABILITY

A. EFFECTIVITY

This Ordinance shall become effective on the 1st day of August 2004; all Ordinances or parts of Ordinances in conflict with this Ordinance are hereby repealed.

B. VALIDITY

If any section, paragraph, clause, phrase, or provision of this Ordinance shall be adjudged invalid or held unconstitutional, such decisions shall not effect the remaining portions of this Ordinance.

C. LIABILITY

1. Neither the approval of a plan under the provisions of this Ordinance, nor the compliance with provisions of this Ordinance shall relieve any person from the responsibility for damage to any person or property otherwise imposed by law nor impose any liability upon the Local Issuing Authority or District for damage to any person or property.
2. The fact that a land-disturbing activity for which a permit has been issued results in injury to the property of another shall neither constitute proof of nor create a presumption of a violation of the standards provided for in this Ordinance or the terms of the permit.
3. No provision of this Ordinance shall permit any persons to violate the Georgia Erosion and Sedimentation Act of 1975, the Georgia Water Quality Control Act or the rules and regulations promulgated and approved thereunder or pollute any Waters of the State as defined thereby.

WHEREAS, the SESC Ordinance was revised in 2004 to reflect the State Model Ordinance;

WHEREAS, several definitions and SESC Measures pertinent to Augusta Richmond County were left out of the 2004 Ordinance;

WHEREAS, for effective SESC monitoring and enforcement these items need to be added back into the SESC Ordinance;

WHEREAS, the Engineering Department has required additions to Section V-C-3-Application Process-Maps and Drawings;

THEREFORE; it is determined to delete the former SESC Ordinance and adopt this new version in its entirety.

ATTEST:

Signature_____

Signature_____

Effective_____

SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE

**NOW, THEREFORE BE IT ORDAINED, BY THE AUGUSTA-RICHMOND
COUNTY COMMISSION OF AUGUSTA, GEORGIA**

**WHEREAS, the Soil Erosion Sediment Control Ordinance was revised in 2004 to
reflect the State Model Ordinance;**

**WHEREAS, several definitions and Soil Erosion Sediment Control Measures
pertinent to Augusta Richmond County were left out of the 2004 Ordinance;**

**WHEREAS, for effective Soil Erosion Sediment Control monitoring and
enforcement these items need to be added back into the SESC Ordinance;**

**WHEREAS, the Engineering Department has requested additions to Section V-C-3-
Application Process-Maps and Drawings;**

**THEREFORE, the Augusta Commission hereby determines to delete the former
Soil Erosion Sediment Control Ordinance and adopt this new version in its entirety.**

ATTEST:

Signature

Signature

Effective Date



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Sanitary Sewer Replacement**

Department: Augusta Utilities Department

Caption: Approve award of design contract in the amount of \$59,790.00 to W.K. Dickson & Co. Inc. for sanitary sewer replacement of the Mid-City replacement at Chafee Park.

Background: The Mid-City sanitary sewer main begins at the confluence of the Rae's Creek and Rock Creek sewer mains. The Mid-City travels through downtown to the intersection of Laney Walker and New Savannah Rd. The existing line was bypassed with a siphon several years ago to ensure proper sanitary service, however the existing sewer has several areas which require maintenance or replacement. The section adjacent to the Canal at Chafee Park and Broad Street is an area that requires maintenance. Inside the line, several layers of brick and debris have built up from collapsing manholes and pipe in the vicinity. The current line is the bypass line for the sewer siphon, and still serves the Pearl Avenue sewer line. The line needs to be replaced in order to provide proper service. The existing line lies approximately 125 feet from the banks of the canal, and is approximately 20 feet deep. Under a separate contract, AUD inserted a sewer camera into the sewer line to videotape its' condition. Several of those photos are attached. The proposed replacement of the sanitary sewer main will consist of approximately 1,700 LF of 36" diameter ductile iron pipe.

Analysis: W.K. Dickson is a recently established local firm that was selected for a small waterline project in the 2004 bond issue. They are a regional firm with a surveying branch. AUD and WK Dickson met on-site to review the scope of the project, and subsequently WK Dickson submitted a proposal to develop a plan to replace that section of line. The estimated construction cost of the replacement line is approximately \$460,000.00. The engineering fees of \$59,790.00 constitute approximately 13% of the estimated construction cost.

Financial Impact: The bid submitted for this project was \$59,790.00. These funds are available from the AUD Renewal and Extension fund in the following accounts: 507043420-5212115 / 80700005-5212115

Alternatives: No alternative is proposed.

Recommendation: We recommend Approve award of design contract in the amount of \$59,790.00 to W.K. Dickson & Co. Inc. for sanitary sewer replacement of the Mid-City replacement at Chafee Park.

Funds are Available in the Following Accounts: 507043420-5212115 / 80700005-5212115

REVIEWED AND APPROVED BY:

**Finance.
Procurement.
Disadvantaged Business Enterprise.
Administrator.
Clerk of Commission**



ATTACHMENT A - SCOPE OF SERVICES

PROJECT DESCRIPTION:

This project involves Professional Engineering Services related to the design and construction of the Mid-City Interceptor Replacement at Chaffee Park for the Augusta Utilities Department. W.K. Dickson & Co., Inc. (WKD) proposes to provide professional land surveying and engineering services for the described project. The proposed sanitary sewer main project will consist of approximately 1,700 LF of 36" diameter ductile iron pipe that will connect at one end to an existing manhole east of the intersection of Division Street and Pearl Avenue and connect to the opposite end to an existing manhole located west of the Augusta Canal and north of Broad Street. The proposed sanitary sewer main will be located west of the Augusta Canal on property owned by the City of Augusta, Georgia. Said main will generally parallel the Augusta Canal approximately 125' from the edge of the canal. Due to the condition of the line it is expected that the new outfall line will be installed further from the canal to facilitate laying conditions.

DESIGN OBJECTIVES:

The CONSULTANT proposes to provide the following scope of services for the fees listed under the "Cost Proposal".

A. Design Surveys and Mapping

CONSULTANT proposes to complete field surveys (both topographic and physical) and related mapping for the proposed sanitary sewer main replacement. From data provided by the Augusta Utilities Department (work sheets from AUD survey crew, easement plats, and agreement with Georgia Power Company regarding GPC transmission lines), W K Dickson will provide a strip topographic map of the area showing existing contours (1' interval) and existing utilities within the described area. The described area would be approximately 1,400 'in length and a width of 150' more or less (4.8 ac).

It should be noted that existing manholes range in depth of 15'-22'. Therefore, "confined space entry" will be employed to determine the invert elevation of the existing manholes. These existing manholes will act as "tie-in" points for the proposed replacement main.

AUD has identified several control points which are referenced horizontally to the geographic coordinate system of the North American 1983 Datum. The design survey will use information previously prepared by AUD and then augment with additional topographics and property location needed for construction documents.

- Establishing horizontal and vertical control for the proposed improvements.

- Survey physical and topographical conditions at the existing project site.



-Locate visible above ground and subsurface utilities. We will attempt to locate available information regarding underground utilities such as water, sewer, and Stormwater with the assistance of Augusta Utilities Department and will map other underground utilities (such as gas, telephone, cable and power) as marked in the field by utility location firms.

-WK Dickson will subcontract private location of underground utilities to supplement utility locations by utilities providers

-Since the depth of the sanitary sewer main is a major factor in the design, WK Dickson has requested the services of Qore Property Sciences. Qore will provide geotechnical services to perform subsurface exploration of the site. WK Dickson will review the scope of services for Qore with AUD prior to subcontracting the work and bill as a reimbursable expense at a cost plus 15%.

-It is anticipated that WKD will prepare a new easement plat for the relocated line and the construction thereof as part of the project. This plat will be prepared during the design phase of the project and submitted to AUD for review and acceptance. It is anticipated that only one property will be effected and that all easements can be done on one plat.

B. Waters of the US Delineation

WK Dickson does not anticipate any waters of the U.S. in the project area. Therefore, mitigation is not anticipated at this time and mitigation planning is not included in the cost estimate.

C. Engineering Design

Utilizing the design surveying and mapping, final plans and specifications will be developed for the proposed project with the anticipation of a high water table and the depth of the manholes, special structures will be considered for the proposed manholes. Work in this phase will include the following:

-Finalize horizontal and vertical geometry.

-Meet with Utilities Department to define phases.

-Prepare plans and detail sheets for the phase. Additions to the Augusta Utilities Department "*Standard s and Specifications*" will be made to adjust for the special structures.

-Show the necessary erosion control measures for the entire project and prepare erosion control details.

-Prepare technical specifications on materials and workmanship. Prepare technical specifications on materials and workmanship to comply with the results of the subsurface exploration.

-Submit Plans, Specifications and Permit Applications to Augusta Utilities Department for review. This will include applications to Erosion Control EPD.



-Prepare construction cost estimates at each review stage 30%, 70%, 100% and with the submittal of final documents.

D. CONSTRUCTION BIDDING

Upon receiving the approvals from the regulatory agencies and the OWNER, the CONSULTANT will proceed with the Construction Bidding portion of the project consisting of the following tasks:

- Coordinate with the City Procurement Department to advertise the project.
- Fax bid information to City
- Attend mandatory pre-bid meeting as a technical reference to the CITY for the project.
- Prepare letter of recommendation for award of the contract.
- Develop conformed contract documents and forward to the CITY for execution.
- Attend the pre-construction meeting as a technical reference to the CITY.
- Provide clarification related to the plans/specifications throughout design and construction.

E. CONSTRUCTION ADMINISTRATION

- Provide record drawings at completion of the project electronically, per the *Utilities Design Standards and Specifications (latest version)*. This will be based on red line drawings from the construction inspector
- Provide Services During Construction as follows:
 - Attend Project meetings as scheduled by the CITY (anticipating eight (8) project meetings).
 - Recommend design changes as field conflicts arise (site visits may be required)
 - Review and approval of pay requests from the construction Contractor (line of Communication will be construction contractor to resident observer to CONSULTANT to CITY).
 - Provide clarification and specifications throughout construction.
 - Revise/update plans and / or easement plats as changes occur that require submittal to DOT/other agencies.



ATTACHMENT B - COMPENSATION

The CITY shall compensate the CONSULTANT for services, which have been authorized by the CITY under the terms of this Agreement.

The CONSULTANT may submit to the CITY a monthly invoice, in a form acceptable to the CITY and accompanied by all support documentation requested by the CITY, for payment for the services, which were completed during the billing period. The CITY shall review for approval said invoices. The CITY shall have the right to reject payment of any invoice or part thereof if not properly supported, or if the costs requested or a part thereof, as determined solely by the CITY, are unreasonably in excess of the actual phase of completion of each phase. The CITY shall pay each such invoice or portion thereof as approved, provided that the approval or payment of any such invoice shall not be considered to be evidence of performance by the CONSULTANT to the point indicated by such invoice, or of receipt of acceptance by the CITY of the service covered by such invoice. The CITY shall pay any undisputed items contained in such invoices.

Each invoice shall be accompanied by a letter progress report describing the total work accomplished for each phase and any problems, which have been encountered, which may inhibit execution of the work. The CONSULTANT shall also submit an accurate updated schedule, and an itemized description of the percentage of total work completed for each phase during the billing period.

When the CITY authorizes the CONSULTANT to proceed with the work authorized in a Task Order, it agrees to pay the CONSULTANT for work completed, on the basis of the standard billing rates shown in Attachment B to the Contract of those principals and employees engaged directly on the work.

Compensation for design services shall be invoices based on the sum of all actual costs incurred in the performance of the work, including all direct, payroll, overall and profit cost in an amount not-to-exceed the compensation set forth in the terms of the Agreement or any authorized Task Order. All invoices submitted by the CONSULTANT shall be detailed to reflect incurred expenses, labor hours and costs by authorized Task.

Overtime may be performed at the discretion of the CONSULTANT, but the premium time portion of the overtime will not be billed to the CITY unless the CONSULTANT has requested acceleration of the scheduled work in writing.



ATTACHMENT B-1

BASIS OF COMPENSATION

1. Basic Services: The OWNER shall pay the CONSULTANT for services set forth in Attachment A., Scope of Services, Lump Sum Fees as show below.

- 30% Route Evaluation	\$ 4,200.00
- Geotechnical Exploration (reimburseable)	\$ 2,800.00
- Route Survey	\$ 11,000.00
- 70% Design	\$16,500.00
- 100% Design	\$13,000.00
- Bidding and Contracting	\$2,500.00
- Construction Services	\$8,390.00
- Expenses (Printing & Local Mileage, N.T.E.)	\$1,400.00
Total	\$59,790.00

A percentage of the Lump Sum Fee will be billed on the last day of each month. The percentage billed will be the percentage of work estimated to be complete as of the day of billing.

2. Additional Services: The OWNER shall pay the CONSULTANT for additional services, which are not specifically called for in Attachment A, Scope of Services as negotiated and ordered in writing by the owner.



ATTACHMENT C - LISTING OF KEY PERSONNEL

CONSULTANT shall provide qualified personnel to perform its work. The list of key personnel below, including a designated Program Manager will not change or be reassigned without the written approval of the CITY. Those personnel committed for this work are as follows:

William G. Wingate "Trey", III, PE	Vice President	WK Dickson - Augusta
Joseph L. Holley, Jr., LS, PE	Project Manager	WK Dickson - Augusta
Kenneth A. Sharp, PE	Design Engineer	WK Dickson - Augusta
Robert Tate Horton, LS	Land Surveyor	WK Dickson - Augusta
Patricia A. Weatherman	Administrative	WK Dickson - Augusta
Russell Barnes	Civil Designer	WK Dickson - Augusta



ATTACHMENT D - SCHEDULE FOR PERFORMANCE

WK Dickson will work on or as soon as practicable after the date of execution of this Contract and all work as set forth in the Scope of Services shall be completed as follows:
(See attached chart)

It is anticipated that construction contract will be no more than one hundred eighty (180) day contract. We anticipate at least twelve (12) progress meetings and six (6) pay requests to be required.



CONSULTANT SERVICES

As a part of this Agreement the CONSULTANT agrees to furnish the following checked items (**CONSULTANT to initial in the space provided acknowledging responsibility to furnish said item**).

Prior to Authorization To Proceed:

- ☒ _____ Detailed Scope of Services based upon Schedule A of this Agreement to be submitted with Cost Proposal clearly defining the CONSULTANT'S understanding of the project limits, design objectives and CONSULTANT'S services to be provided.
- ☒ _____ Cost Proposal that will include cost of surveying, design, preparation of construction plans and specifications, and other services requested in the CITY'S Request for Proposal.
- ☒ _____ Schedule for submittal of review documents at 30%, 70%, and 100% completion; and final documents.

Prior to submitting 30% review documents:

- ☒ _____ Locate all existing utilities using available information collected by the CONSULTANT. The CITY will furnish available information on water and sewer locations however the CONSULTANT must verify to CITY'S satisfaction.
- ☒ _____ Provide CITY with information on the project site(s), including the following:
 - Past and present use of the land (specifically identify any landfilling activities in the area); identify any nearby designated wetlands
 - Soil type(s)
 - Boring results when required by CONSULTANT for new facilities or where depth of line and existing site conditions warrant.
 - Brief description of the area (e.g., residential, commercial, industrial) including general slope of the land, and whether trees, signs, etc. will be in conflict with the new facilities. Include number of properties affected and number of easements required with property owners identified
 - Identification of potential problems in meeting design objectives.
- ☒ _____ Site Plan (If Required)

Throughout project:

- ☒ _____ Prepare printed responses to comments received from the CITY following reviews.
- ☒ _____ Provide the necessary plats for easement acquisition and DOT/other permit application.
- ☒ _____ Prepare Public Works/DOT/Other permit applications for signature by the CITY.
- ☒ _____ Prepare and submit plans to EPD for review and approval when required.
- ☒ _____ Prepare plans and specifications, using *Augusta Utilities Design Standards and Specifications (latest version)*. Specifications must mirror that provided by the CITY.



- ☒ _____ Prepare construction cost estimates at each review stage, 30%, 70%, 100%, and with the submittal of Final documents. Provide cost breakdown for any items to be lump sum in the construction contract.

Upon completion of design:

- ☒ _____ Coordinate with the City Procurement Department to advertise the project.
- ☒ _____ Fax bid information to CITY.
- ☒ _____ Attend the Pre-Bid Meeting as a technical reference to the CITY.
- ☒ _____ Prepare letter of recommendation for award of the contract.
- ☒ _____ Develop conformed contract documents and forward to the CITY for execution.
- ☒ _____ Attend the pre-construction meeting as a technical reference to the CITY.
- ☒ _____ Provide clarification related to the plans/specifications throughout design and construction.
- ☒ _____ Provide record drawings at completion of the project electronically, per the *Utilities Design Standards and Specifications (latest version)*.
- ☒ _____ Provide Services During Construction as follows:
- Attend project meetings as scheduled by the CITY
 - Recommend design changes as field conflicts arise (site visits may be required)
 - Review and approval of pay requests from the construction Contractor (line of communication will be construction contractor to resident observer to CONSULTANT to CITY)
 - Provide clarification of plans and specifications throughout construction
 - Revise/update plans and/or easement plats as changes occur that require resubmittal to DOT/other agencies.

AUGUSTA UTILITIES DEPARTMENT

CONSULTANT

BY: _____

BY: _____

PRINTED NAME: _____

PRINTED NAME: William G. Wingate, III

TITLE: DIRECTOR _____

TITLE: Vice President

DATE: _____

DATE: _____

**ADDITIONAL SERVICES:**

1. Revisions to the plans/contract documents to extend the limits of the project after this AGREEMENT has been executed by the CITY.
2. Revisions due to incorrect locations of existing utilities by the CONSULTANT (i.e., correct location given by CITY, incorrectly marked on plans by engineer) will be the responsibility of the CONSULTANT. Other revisions required by the CITY, DOT, EPD, or other government agency at their request will be considered an additional service.
3. Out-of-town meetings or conferences required of the CONSULTANT by the CITY.
4. Other not described above, as approved by the CITY.

NOTE:

It is the responsibility of the CONSULTANT as contracted by the CITY to provide professional surveying and engineering services. It is expected that such professionals will operate in a manner which assures the interests of the common welfare, rather than in a manner which promotes their own financial gain. It is expected that such professionals will act as a faithful agent for the CITY as a client. It is the duty of the CONSULTANT to protect the safety, health and welfare of the public in the performance of their professional duties.

Manhole Inspection Image* Report

1/19/200

MID-CITY MANHOLE INSPECTION REPORT

1:59 PM

Structure No.:	MC035M1535	Address:	
Flow Basin:	MC	Gen Location:	N. SIDE OF BROAD ST - ON S. SIDE OF CANAL - 150' FROM BRIDGE
Inspection Date:	6/6/1999	Insp Type:	GPS
Location:		Crew:	
Structure:		Total GPM:	
Structure No.:	MC027M1974	Address:	
Flow Basin:	MC	Gen Location:	East of Eve Street-north of Pearl Ave. on south side of canal.
Inspection Date:	6/6/1999	Insp Type:	GPS
Location:		Crew:	
Structure:		Total GPM:	
Structure No.:	MC027M2677	Address:	
Flow Basin:	MID-CITY	Gen Location:	
Inspection Date:	6/1/1999	Insp Type:	GPS
Location:		Crew:	
Structure:		Total GPM:	
Structure No.:	MC027M2681	Address:	
Flow Basin:	MID-CITY	Gen Location:	
Inspection Date:	6/6/1999	Insp Type:	GPS
Location:		Crew:	
Structure:		Total GPM:	
Structure No.:	MC027M1974	Address:	
Flow Basin:	MC	Gen Location:	East of Eve Street-north of Pearl Ave. on south side of canal.
Inspection Date:	4/29/2004	Insp Type:	Internal
Location:	Trees/Woods	Crew:	MB/RS/DS
Structure:	14	Total GPM:	0.00

Manhole Inspection Image* Report

MID-CITY MANHOLE INSPECTION REPORT

1/19/2007

1:59 PM



EXTERNAL



INTERNAL



LINE 1 DOWNSTREAM



LINE 2 UPSTREAM

Structure No.: MC027M2029
Flow Basin: MC
Inspection Date: 4/29/2004
Location: Trees/Woods
Structure: 25

Address:
Gen Location: South of Eve St. -East of Pearl Ave.
Insp Type: Internal
Crew: MB/RS/DS
Total GPM: 0.00

Manhole Inspection Image* Report

MID-CITY MANHOLE INSPECTION REPORT

1/19/2007

1:59 PM



Interior



DownstreamLine 1



Upstream Line 2



Exterior

Structure No.: MC035M1709
Flow Basin: MC
Inspection Date: 4/29/2004
Location: Trees/Woods
Structure: 13

Address:
Gen Location: South of Eve St. East of Pearl St. south side of canal
Insp Type: Internal
Crew: MB/RS/DS
Total GPM: 0.00

Manhole Inspection Image* Report

MID-CITY MANHOLE INSPECTION REPORT

1/19/2007

1:59 PM



Exterior



Line 1 Outgoing



Line 2 Incoming



Interior

Structure No.: MC035M1883
Flow Basin: MC
Inspection Date: 4/29/2004
Location: Trees/Woods
Structure: 16

Address:
Gen Location: South of Eve Street. East of Pearl St.
Insp Type: Internal
Crew: MB/RS/DS
Total GPM: 0.00

Manhole Inspection Image* Report

MID-CITY MANHOLE INSPECTION REPORT

1/19/2007

1:59 PM



Exterior



Interior



Line 2 Incoming



Line1 Incoming

Structure No.: MC035M2234
Flow Basin: MC
Inspection Date: 4/30/2004
Location:
Structure: 30

Address:
Gen Location: N OF BROAD ST ON S. SIDE CANAL - 75' FROM BRIDGE
Insp Type: Internal
Crew: MB/RS
Total GPM: 0.00

Manhole Inspection Image* Report

MID-CITY MANHOLE INSPECTION REPORT

1/19/2007

1:59 PM



MC035M2234-AREA
MH EXTERNAL



MC035M2234-DEFECTLN1
MH DEFECT 1



MC035M2234-DEFECTLN2
MH DEFECT 2



MC035M2234-DEFECTLN3
MH DEFECT 3



MC035M2234-INSIDE
MH INTERNAL

Structure No.: MC035M1535
Flow Basin: MC
Inspection Date: 4/30/2004
Location:
Structure: 26

Address:
Gen Location: N. SIDE OF BROAD ST - ON S. SIDE OF CANAL - 150' FROM BRIDGE
Insp Type: Internal
Crew: MB/RS
Total GPM: 0.00

Manhole Inspection Image* Report

MID-CITY MANHOLE INSPECTION REPORT

1/19/2007

1:59 PM



MH EXTERNAL



MH DEFECT 1



MH DEFECT 2



MH INTERNAL



Disadvantaged Business Enterprise

**Yvonne Gentry
DBE Coordinator**

TO: Max Hicks
Director, Utilities Department

Geri Sams
Director, Procurement Department

FROM: Yvonne Gentry, Coordinator
Disadvantaged Business Enterprise Department

SUBJECT: **DBE REVIEW AND APPROVAL OF RECOMMENDED DBE GOAL
Sanitary Sewer Replacement**

DATE: January 19, 2007

This memo is to validate the Disadvantaged Business Enterprise department was not involved with the Procurement process of this project. Therefore, the department can not verify the goal-setting methodology or the good faith efforts of the contractor. If you have any questions, please contact me at (706) 821-2406.

YG:glw



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Travon Wright**

Department: Clerk of Commission

Caption: Report from staff regarding the paving of Lamar Road.

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

Clerk of Commission

AGENDA ITEM REQUEST FORM

Commission/Committee: (Please check one)

☐ Commission
☐ Public Services Committee
☐ Administrative Services Committee
☒ Engineering Services Committee - Jan 8-
☐ Finance Committee
☐ Public Safety Committee

Contact Information for Individual/Presenter Making the Request:

Name: Dea Tramon Wright
Address: 2539 Lincolnton Hwy
Telephone Number: (706) 373-8344
Fax Number:
E-Mail Address: just simply wright@yahoo.com

Caption/Topic of Discussion to be placed on the Agenda:

The paving of Lamar Rd / time line of process

Please send this request form to the following address:

Ms. Lena J. Bonner
Clerk of Commission
Room 806 Municipal Building
530 Greene Street
Augusta, GA 30911

Telephone Number: 706-821-1820
Fax Number: 706-821-1838
E-Mail Address: lbonner@augustaga.gov

Requests may be faxed, e-mailed or delivered in person and must be received in the Clerk's Office no later than 5:00 p.m. on the Wednesday preceding the Commission or Committee meeting of the following week. A five-minute time limit will be allowed for presentations.

Commission meetings are held on the first and third Tuesdays of each month at 2:00 p.m. Committee meetings are held on the second and last Mondays of each month from 12:30 to 3:30 p.m.



**Engineering Services Committee Meeting
2/6/2007 1:00 PM
Willis Foreman Bridge**

Department: Clerk of Commission

Caption: Update from the Administrator and City Engineer on the repairs to the Willis Foreman Bridge. (Requested by Commissioner Harper)

Background:

Analysis:

Financial Impact:

Alternatives:

Recommendation:

**Funds are
Available in the
Following
Accounts:**

REVIEWED AND APPROVED BY:

Clerk of Commission
