



Engineering Services Committee Meeting Commission Chamber- 9/27/2010- 1:05 PM

ENGINEERING SERVICES

1. Motion to approve a resolution creating street lighting districts. ☐ [Attachments](#)
2. Approve Local Administered Project (Lap) Certification Agreement between Augusta-Richmond County and Georgia Department of Transportation (GDOT) as requested by AED. ☐ [Attachments](#)
3. Motion to authorize condemnation to acquire title of property for right of way for the Belair Hills Subdivision Project, (Parcel 134-0-004-00-0) 3968 Scott Street. ☐ [Attachments](#)
4. Motion to approve installation of streetlights along Walton Way between 8th Street and 10th Street. Installation will be performed by Georgia Power as requested by Traffic Engineering ☐ [Attachments](#)
5. Approve Capital Project Budget number 324-041110-201824333 and Supplemental Agreement Number One to Cranston Engineering Group, PC, in the amount of \$25,345.00 to provide detailed modeling analysis for the Wrightsboro Road Widening, Phase I project. Funding is available in the project engineering account for the Engineering Department. ☐ [Attachments](#)

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**Engineering Services Committee Meeting
9/27/2010 1:05 PM
Engineering/Street Lighting**

Department: Engineering/Traffic

Caption: Motion to approve a resolution creating street lighting districts.

Background: The Engineering Department has been petitioned by the citizens requesting street lighting in their neighborhood pursuant to a 1971 Commission Resolution authorizing the creating of Street Lighting Districts. The petitioners agree to pay for all costs associated with the installation, ongoing maintenance and energy.

Analysis: Currently, street lighting is non-existing in these areas. Street lighting has been an effective measure to increase pedestrian and vehicular safety, assist in crime prevention, and to promote businesses and community pride.

Financial Impact: Street Lighting Districts are funded by a self supporting fund. Street Lighting charges vary based on the type lighting requested or required, billable front footage, and light wattage and spacing. Costs for the subject districts follow: Lighting District No. 75D Berckmans Hills \$.45/ft

Alternatives: Approve Street Lighting District No. 75D

Recommendation: Approve Street Lighting District No. 75D

Funds are Available in the Following Accounts: 2760416105233111

REVIEWED AND APPROVED BY:

**Finance.
Law.
Administrator.
Clerk of Commission**

Engineering Department Traffic Engineering Section

507 Telfair Street

Augusta, Georgia 30901

Georgia, Richmond County:

A petition has been filed with the Board of Commissioners of Richmond County, Georgia for the installation and maintenance of street lights in Street Light District No. 75D Berckman Hills. Street Lighting District No. 75D consists of a part of Ashland Drive and Boy Scout Road. Reference: Richmond County GA Tax Map 18-3; parcels 67-73. Tax Map 18-4; parcels 1,2,15,26.01,27. Tax Map 25-2 parcels 1-9, 15-18, 22. Same to be installed and the annual service charge to be assessed against the abutting property. Said petition has been set for hearing before the Board of Commissioners at _____ o'clock _____ in room 806 Municipal Building, 530 Greene Street, Augusta, Georgia. All persons whose interest are affected by the proposed installation of street lights are hereby notified to appear in person or by attorney at said time and place and present such objection or evidence herein as their interest require.

This _____ day of _____, 20_____.

_____ Chairman

AUGUSTA-RICHMOND COUNTY

COMMISSION-COUNCIL

RICHMOND COUNTY, GEORGIA

SREET LIGHTING RESOLUTION

A resolution providing for the installation of street lights and the assessment of the annual cost of maintaining and operating said street lights against abutting property.

WHEREAS a resolution was adopted by the Board of Commissioners of Richmond County, Georgia, on the 19th day of October, 1971, authorizing creation of certain street light districts in Richmond County pursuant to Constitutional Amendment (GA. Laws 1970, Vol. 1, page 1097); and affected by the hereinafter described improvements have petitioned the Board of Commissioners of Richmond County, Georgia, for the installation of street lights.

NOW, THEREFORE, BE IT RESOLVED, by the Commission-Council of Richmond County, Georgia, as the governing body of said County, that there be and there is hereby created and established within the are area of Richmond County, Street Light District No. 75D, for the purpose of building, erecting, establishing, maintaining and operating street lights and lamps for the illumination of the public streets, roads, sidewalks and ways therein, as more Particularly shown and delineated on map entitled "Street Light District No. 75D, which map is attached hereto and made a part of this resolution by reference; and

BE IT FURTHER RESOLVED that the boundaries of said district as enumerated on said map be and the same are hereby established as shown and delineated on said map as full and complete as if the full legal description of the courses, distances and boundaries of said district are fully set forth herein.

BE IT FURTHER RESOLVED that the annual cost and charges for the maintenance and operation of said street lights shall be at a rate of \$.45 per front foot per year and shall be a lien upon the abutting property annually and continuing each year until all annual charges have been paid.

IT IS ORDERED that a copy of this resolution, together with a copy of said map be transmitted to the Tax Commissioner of Richmond County, for the collection of any and all taxes and/or service charges which may be imposed against any businesses, residents and property served by said facilities.

Adopted by the Board of Commissioners of Richmond County, Georgia, this _____ day of _____, 20____.

Mayor, Commission-Council
Richmond County, Georgia

Attest:

Clerk

AJENDA ITEM _____

EDITION _____

Date: September 16, 2010

To: Hon. Deke Copenhaver, Mayor
Members of Commission
Chairman, Engineering Services Committee

Through: Abie L. Ladson, P E Director, Engineering Dept.
Through: Fred Russell, Administrator

From: Steven J. Cassell, PE, PTOE,
Assist. Director-Traffic Engineering

Subject: Petitioned Street Lighting Districts
File Reference: 09-005E (A)

CAPTION: Recommend approval of resolution creating street lighting districts.

BACKGROUND: The Engineering Department has been petitioned by the citizens requesting street lighting in their neighborhood pursuant to a 1971 Commission Resolution authorizing the creating of Street Lighting Districts. The petitioners agree to pay for all costs associated with the installation, ongoing maintenance and energy.

ANALYSIS: Currently, street lighting is non-existing in these areas. Street lighting has been an effective measure to increase pedestrian and vehicular safety, assist in crime prevention, and to promote businesses and community pride.

FINANCIAL IMPACT: Street Lighting Districts are funded by a self supporting fund. Street Lighting charges vary based on the type lighting requested or required, billable front footage, and light wattage and spacing. Costs for the subject districts follow:

Lighting District No. 75D Berckmans Hills

AGENDA ITEM
EDITION

September 16, 2010
Page 2

REQUESTED AGENDA DATE:

Committee Meeting:

Commission Meeting:

DEPARTMENT
DIRECTOR

FUNDS ARE AVAILABLE IN THE
ACCOUNTS:
2760416105233111/Legal Advertising

ADMINISTRATOR:

FINANCE:

SJC/ALL/PJ

Cc: Charles Gifford
Agenda File
Traffic Engineering File



Engineering Services Committee Meeting
9/27/2010 1:05 PM
Local Administered Project (Lap) Certification Agreement

Department: Abie L. Ladson, PE, CPESC, Director of Engineering

Caption: Approve Local Administered Project (Lap) Certification Agreement between Augusta-Richmond County and Georgia Department of Transportation (GDOT) as requested by AED.

Background: According to Federal Highway Administration (FHWA), Locally Administered Projects (LAP) by cities and counties in 45 States across the nation are estimated to involve \$6-\$8 billion in Federal-aid contracts. Nearly 25% of the national Federal-Aid program is now administered by local public agencies and in Georgia's Statewide Transportation Improvement Program 20.86% is currently shown as locally administered projects. The purpose of the agreement is to authorize qualified Local Public Agencies (LPA) to manage certain core activities for Federal-aid funded projects under federal and state guidelines. GDOT stewardship includes the responsibility to assure local projects meet or exceed all applicable Federal and State laws, standards and requirements.

Analysis: AED is qualified and experienced to manage federal and state projects and is currently managing the following FHWA/GDOT projects: 1. Alexander Drive 2. St. Sebastian Way/Greene St./15th Street 3. Windsor Spring Rd., Section IV 4. Windsor Spring Rd., Section V 5. Wrightsboro Rd. Improvements

Financial Impact: No financial impact.

Alternatives: 1) Approve Local Administered Project (Lap) Certification Agreement between Augusta-Richmond County and Georgia Department of Transportation (GDOT) as requested by AED. 2) Do not approve project.

Recommendation: APPROVE ALTERNATIVE ONE

Funds are Available in the Following Accounts: NO FUNDING REQUIRED.

REVIEWED AND APPROVED BY:

Cover Memo

Finance.

**Law.
Administrator.
Clerk of Commission**

APPENDIX A - CERTIFICATION ACCEPTANCE QUALIFICATION AGREEMENT

AGENCY Augusta-Richmond County PHONE NO. 706-821-2400

The agency agrees to comply with the following requirements when developing all Federal Highway Administration (FHWA) projects under GDOT's CA status.

1. Adherence to the *Local Administered Project Manual* and all policies and procedures promulgated by the Georgia Department of Transportation (GDOT) which accomplish the policies and objectives set forth in Title 23, U.S. Code, Highways, and the regulations issued pursuant thereto.

2. The overall approval authorities and conditions will be as follows:

a. The project prospectus will be reviewed and approved by the following official.

Director of Engineering

Position Title Only

b. The local agency agreement will be reviewed and approved by the following official or officials.

Director of Engineering

Position Title Only

c. The designs and environmental documents will be reviewed and approved by the following state of Georgia registered Professional Civil Engineer.

Director of Engineering

Position Title Only

d. The public hearing's findings (if required) will be reviewed and approved by the following official or officials.

Director of Engineering

Position Title or Titles Only

e. The contract plans, specifications and estimate of cost will be reviewed and approved by the following state of Georgia registered Professional Engineer.

Director of Engineering

Position Title or Titles Only

f. Agreements will be signed by the following responsible local official:

- (1) Railroad Mayor of Augusta-Richmond County
Position Title Only
- (2) Utility Mayor of Augusta-Richmond County
Position Title Only
- (3) Consultant Mayor of Augusta-Richmond County
Position Title Only
- (4) Technical Services Mayor of Augusta-Richmond County
Position Title Only

g. The award of contract will be signed by the following responsible local official.

Mayor of Augusta-Richmond County

Position Title Only

h. All projects will be constructed in conformance with the
GDOT current *Standard Specifications for Road, Bridge,*
and such specifications that modify these Specifications as appropriate.
Multimodal enhancement projects shall be constructed in conformance
with applicable state and local codes.

i. The contract administration will be supervised by the following state of
Georgia registered Professional Civil Engineer.

Director of Engineering

Position Title Only

j. Construction administration and material sampling and
testing will be accomplished in accordance with the GDOT
Construction Manual and the *Local Administered Project Manual*.

3. The agency agrees that they have the means to provide adequate expertise and will have support staff available to perform the functions being subdelegated. The support staff may include consultant or state services.

4. The agency agrees that the signature on each project prospectus and local agency Agreement will be consistent with section 2 above.

5. All projects under Certification Acceptance shall be available for review by the FHWA and the state at any time and all project documents shall be retained and available for

inspection during the plan development and construction stages and for a three year period following acceptance of the project by GDOT.

6. Approval of the local agency certification by the Georgia Department of Transportation may be rescinded at any time upon local agency request or if, in the opinion of the LAP Certification Committee, it is necessary to do so. The rescission may be applied to all or part of the programs or projects approved in the local agency certification. The Local Government accepts liability to reimburse the GDOT and FHWA for all accrued payments received for applicable projects not complying with Section 1 of this agreement.

Mayor or Chairman

Date

GEORGIA DEPARTMENT OF TRANSPORTATION

Approved By: _____

Program Control Administrator

Date



Engineering Services Committee Meeting

9/27/2010 1:05 PM

**Property Condemnation - Right of Way, Keisha Martin, property owner, Belair Hills Subdivision Improvement Project
Tax Map 51, Parcel 52; 3968 Scott Street Augusta ARC Project No 323-04-201823332**

Department: Law Department

Caption: Motion to authorize condemnation to acquire title of property for right of way for the Belair Hills Subdivision Project, (Parcel 134-0-004-00-0) 3968 Scott Street.

Background: Despite repeated efforts, the City has been unable to reach an agreement with the property owner and therefore seeks to acquire title through condemnation. In order to proceed and avoid further project delays, it is necessary to condemn subject property. The required property consists of 42,120 square feet of right of way. The appraised value is \$30,000.00.

Analysis: Condemnation is necessary in order to acquire the required property.

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

Alternatives: Deny condemnation.

Recommendation: Approve condemnation.

Funds are Available in the Following Accounts: FUNDS ARE AVAILABLE IN THE FOLLOWING ACCOUNT: GL 324-04-1110-54.11120 JL 2038243335-54.11120

REVIEWED AND APPROVED BY:

**Finance.
Law.
Administrator.
Clerk of Commission**



**Engineering Services Committee Meeting
9/27/2010 1:05 PM
Street Lighting 9/2010**

Department: Engineering/Traffic

Caption: Motion to approve installation of streetlights along Walton Way between 8th Street and 10th Street. Installation will be performed by Georgia Power as requested by Traffic Engineering

Background: This project will upgrade the street lights along the frontage of the City's new Judicial Center as well as close an existing gap in the city's streetlighting along Walton Way that currently exists between 8th Street and 9th Street.

Analysis: Upgrade will improve pedestrian and roadway lighting along Walton Way.

Financial Impact: Based on the proposal provided by Georgia Power, the cost of installation is \$64,500.

Alternatives: 1) Approve the proposed supplement. 2) Do not approve.

Recommendation: Approve option 1.

Funds are Available in the Following Accounts: 276-041610-5414410

REVIEWED AND APPROVED BY:

**Finance.
Law.
Administrator.
Clerk of Commission**

Bin 73201
4220 Evans-To-Lox Road
Evans, Georgia 30809



Augusta Richmond County Govt.

September 15, 2010

Dear Charles,

Per your request, Georgia Power has estimated the cost for the lights on Walton Way per your recommendations for the light/pole layout. The following recommendation will work best for you!

Georgia Power will install (14) 350w metal halide teardrop lights (white light) on (14) 30' decorative smooth poles with decorative bottom and with bases serviced underground. This will provide excellent lighting for the street.
Upfront cost for the lights, poles, conductor and labor is \$64,500

Cost of lights:

Install (14) 350w metal Holophane teardrop fixtures \$32.68 each per month

- **Monthly cost includes the energy and maintenance of the lights**

You have the convenience of one call to Georgia Power to take care of repairs to this equipment. We are serious about providing you with prompt service with our outdoor lights. Please let me know if you have any questions or I can help in any way.
My telephone number is (706) 667-5611

Ken Bodner


Georgia Power Lighting Services



**Engineering Services Committee Meeting
9/27/2010 1:05 PM
Wrightsboro Road Widening**

Department: Engineering

Caption: Approve Capital Project Budget number 324-041110-201824333 and Supplemental Agreement Number One to Cranston Engineering Group, PC, in the amount of \$25,345.00 to provide detailed modeling analysis for the Wrightsboro Road Widening, Phase I project. Funding is available in the project engineering account for the Engineering Department.

Background: Phase I of the Wrightsboro Road Widening Project was part of SPLOST Phase IV and called for traffic operational improvements along Wrightsboro Road between Augusta West Parkway and Marks Church Road. The area covered by this project is adjacent to Augusta Mall, and I-520 and is essential to the regional mobility of this area. Therefore, as concepts have been developed, an important tool for evaluating the effects of specific improvements is through simulation modeling. The additional modeling for this project will include the existing, build year and design year scenarios and used to analyze proposed intersection and interchange modifications in the area.

Analysis: The additional modeling for the interchange corridor will provide integral analysis and evaluation as well as serving as a visual aid during public hearings on the project.

Financial Impact: Funds are available in the project engineering 324-041110-5212115-201824333 upon Commission's approval.

Alternatives: 1) Approve Capital Project Budget number 324-041110-201824333 and Supplemental Agreement Number One to Cranston Engineering Group, PC, in the amount of \$25,345.00 to provide detailed modeling analysis for the Wrightsboro Road Widening, Phase I project. Funding is available in the project engineering account for the Engineering Department. 2) Do not approve and cancel project.

Recommendation: Approve Alternative Number One.

Funds are Available in the Following Accounts: 324-041110-5212115/201824333-5212115

Cover Memo

REVIEWED AND APPROVED BY:

Finance.
Law.
Administrator.
Clerk of Commission

CPB# 324-041110-201824333

Augusta-Richmond County, Georgia

Please do not process this document. Once approved by the Commission, the original will be sent to Clerk of Commission for execution. For information reference this request contact Shelette @ ext 5070.

**CAPITAL PROJECT BUDGET
WRIGHTSBORO ROAD WIDENING, PHASE I
(Augusta West Parkway to Marks Church Road)**

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

Section 1: The project is authorized for CPB# 324-041110-201824333. This project is for Wrightsboro Road Widening, Phase I design cost associated with traffic operational improvements along Wrightsboro Road between Augusta West Parkway and Marks Church Road. This authorization is for Engineering associated with the said project, in the total amount of \$25,345.00 to be funded by the Special 1 % Sales Tax, Phase IV to provide detailed modeling analysis on the project for Supplemental Agreement Number One.

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

Special 1% Sales Tax, Phase IV	\$ 2,782,000
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Section 3: The following amounts are appropriated for the project:

	By Basin		By District
Raes Creek	\$2,782,000	7th	\$2,782,000

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

CPB# 324-041110-201824333

Augusta-Richmond County, Georgia

Please do not process this document. Once approved by the Commission, the original will be sent to Clerk of Commission for execution. For information reference this request contact Shelette @ ext 5070.

**CAPITAL PROJECT BUDGET
WRIGHTSBORO ROAD WIDENING, PHASE I
(Augusta West Parkway to Marks Church Road)**

<u>SOURCE OF FUNDS</u>	<u>CPB AMOUNT CPB</u>	<u>CPB CHANGE</u>	<u>NEW CPB</u>
SPECIAL 1% SALES TAX, PHASE IV 324-04-1110-201824333	\$2,782,000	\$0	\$2,782,000
TOTAL SOURCES:	\$2,782,000	\$0	\$2,782,000
 <u>USE OF FUNDS</u>			
ENGINEERING 324-04-1110-5212115-201824333 <i>SA #1: Cranston Eng/PB Americas, Inc. \$25,345</i>	\$398,000	\$0	\$398,000
ADVERTISING 324-04-1110-5233119-201824333	\$2,000	\$0	\$2,000
CONTINGENCY 324-04-1110-6011110-201824333	\$2,382,000	\$0	\$2,382,000
TOTAL USES:	\$2,782,000	\$0	\$2,782,000

AUGUSTA, GEORGIA
ENGINEERING DEPARTMENT
SUPPLEMENTAL AGREEMENT

Please do not process this document. Once approved by the Commission, the original will be sent to Clerk of Commission for execution. For information reference this request contact Shelette @ ext 5070.

Project No. **324-041110-201824333**
Supplemental Agreement No. **1**
PO: **179102**

WHEREAS, We, “**Cranston Engineering Group**” Consultant, entered into a contract with Augusta-Richmond County on “April 1, 2010”, for engineering design services associated with the “**Wrightsboro Rd. Widening Phase I**”, Project No. 324-041110-201824333, File Reference No. 10-014 (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:

*Engineering Services to provide detailed modeling analysis
For the Wrightsboro Road Widening, Phase I*

It is agreed that as a result of the above described modification the contract amount is increased by **\$25,345.00** from **\$196,430.00** to a new total of **\$221,775.00**

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, “**Cranston Engineering Group**”, 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 _____, 2010.

RECOMMEND FOR APPROVAL:

CITY OF AUGUSTA-RICHMOND COUNTY
AUGUSTA, GEORGIA

Fred Russell, Administrator

Approved: Date _____

Approved: Date _____
[ATTACHED CORPORATE SEAL]

ATTEST:

Title: _____



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
JAMES B. CRANFORD, JR., PE
DENNIS J. WELCH, PE

September 16, 2010

J. CRAIG CRANSTON, PE, RLS
(RETIRED)

Mr. Steve Cassell, P.E.
Augusta Engineering Department
507 Telfair Street
Augusta, Georgia 30901

Re: Wrightsboro Road Widening Phase I –
Additional Services Request
Project # 324-01-201824333
CEG Project No. 2009-0038

Dear Mr. Cassell:

Cranston Engineering Group has completed the majority of the traffic engineering study for Wrightsboro Road widening project between I-520 and Marks Church Road. Based on the preliminary results of this study and discussions with you, we are considering a more intensive traffic simulation modeling exercise of the corridor to support the potential interchange modifications. As you are aware, the Synchro software, which was scoped for this project, does not have the capabilities of such simulation modeling. More complex modeling software, such as VisSim by Visual Solutions, Inc., will need to be utilized for this analysis. Therefore, we are proposing to add PB Americas, Inc. to our project team to provide this specialized modeling. They will perform the modeling for the interchange corridor using VisSim and provide the analysis to us for inclusion into the Traffic Engineering Study. This additional VisSim modeling for this project will include the existing, build year and design year scenarios. A more detailed breakdown of PB America's proposed scope is attached for your review.

We feel this additional level of modeling will improve the overall project and provide you with an important tool to gain Georgia Department of Transportation and public approval of any resultant interchange modifications.

The additional fee associated with these services will be \$25,345.00. We are prepared to begin this additional work at your direction and expect to have it completed along with the Traffic Engineering Study within forty five (45) days of receiving your notice to proceed.

We appreciate the opportunity of making this proposal and trust that you find it satisfactory. We will consider your written notice or your revised purchase order as our notice to proceed. Should you have any questions concerning the scope of services, schedule or fee, please do not hesitate to give us a call.

Sincerely,

CRANSTON ENGINEERING GROUP, P.C.

D. Scott Williams, P.E.



PB AMERICAS, INC SCOPE OF SERVICES

Pursuant to Client authorization, PB shall perform such professional services (SERVICES), including:

1. Review of traffic operational analysis and concept development work done for the interchange modifications.
2. Development and calibration of a VisSim traffic-simulation model of interchange corridor, to include the ramp terminal and downstream intersections (4 total).
3. Operational analyses will be performed using VisSim for AM and PM peak hour conditions for existing, no-build and two build year conditions (8 conditions analyzed). LOS, queuing and visual animations will be provided for each scenario.
4. Develop enhanced simulation videos of the Build scenario animations for public presentation.
5. Provide a QA/QC review of the interchange modification design concept and provide comments and improvement recommendations.
6. Provide a photosimulation of the future interchange conditions according to concept plans.
7. Provide a memorandum report summarizing work done and recommendations made.
8. Prepare for and participate in public meeting held in Augusta.

Subcontractor Information:

PB Americas, Inc.

3340 Peachtree Road, NE
Tower Place 100, Suite 2400
Atlanta, GA 30326, USA
404-237-2115
Fax: 404-237-3015
Contact: Jonathan Reid