

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0007362 **OFFICE** Design Policy & Support
CSSTP-0007-00(362)
GDOT District 2 - Tennille
Baldwin County **DATE** April 11, 2012
SR 22; SR 29; SR 29BU; SR 49; CS 546 & CS 578
@ 16 Location in Baldwin Co.

FROM *Brent Story*
for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED CONCEPT REPORT

Attached is the approved Revised Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Lisa Myers, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Jimmy Smith, District Engineer
Jamie Lindsey District Design Engineer
Vonda Everett, District Planning & Program Engineer
Lynn Bean, District Utilities Engineer
Sue Anne Decker, Project Manager
BOARD MEMBER - 12th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT**

Project Type: Traffic Signal Upgrade
GDOT District: 2
Federal Route Number: 441, 441 Bus

P.I. Number: 0007362
County: Baldwin
State Route Number: 22, 24, 49, 243

Two intersections were added to the scope of this project. SR 24 (Montgomery St) @ SR 243 (Clark St) and SR 49 (E. Hancock St) @ Elbert St. This change means that all the traffic signals in Milledgeville will be upgrade with this project.

Submitted for approval:

Bobby Hilliard
Office Head (GDOT Project Manager's Office)

3-20-2012
DATE

Sue Anne Decker
GDOT Project Manager

3/13/12
DATE

Recommendation for approval:

GLENN BOWMAN *T.J.
State Environmental Administrator

3/30/2012
DATE

KATHY ZAHUL *T.J.
State Traffic Engineer

3/30/2012
DATE

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

Cynthia L. Vandevoort
State Transportation Planning Administrator (recommendation required)

3-27-12
DATE

** RECOMMENDATION ON FILE*

PLANNING, APPROVED CONCEPT, & BACKGROUND DATA

None of the approved concept report items have been changed.

Project Justification Statement: As identified by the Traffic Signal Upgrade Program Manager, several intersections were identified as being deficient in traffic signal equipment and/or pedestrian accommodations. The signal deficiencies are characterized by the needs and improvements to meet current design standards outlined in the Manual of Uniform Traffic Control Devices (MUTCD) and the American with Disabilities Act (ADA) requirements. The specific improvements will aid in maximizing efficiency and effectiveness and include the following: modernization of signal and pedestrian equipment for cost-effective maintenance and communication capability, and signal operational capabilities to accommodate pedestrian traffic.

Description of the approved concept: The approved concept report included upgrading 16 intersections in the City of Milledgeville in Baldwin County (100%). The upgrades consist of traffic signalization upgrades using the latest GDOT 2070 controller hardware and software platforms; interconnect communication between intersections using fiber optics; energy saving LED signal heads; pedestrian facility improvements to include countdown pedestrian signals, ADA wheel chair ramps, and cross walk striping. The project will end with volume data collection to develop and install signal coordination and timing.

The project consists of signal upgrades, signal communication design, pedestrian facility improvements, and signal coordination at the following signalized intersections:

1. SR 243/US 441 BU (S Wayne St) @ West Andrews St
2. SR 243/US 441 BU (S Wayne St) @ Vinson Hwy
3. SR 29 (Macon Milledgeville Rd)/ US 441 @ SR 49 (West Hancock St)
4. SR 22 @ SR 24/Columbia Street
5. SR 22 @ Wilkinson Street
6. SR 22 @ Wayne Street
7. SR 49 @ Clarke Street
8. SR 49 @ Columbia Street
9. SR 29 @ Allen Memorial Drive
10. SR 243 @ Greene Street
11. SR 243 @ Franklin Street
12. SR 243 @ Wilkinson Street
13. Greene Street @ Wayne Street
14. Greene Street @ Wilkinson Street
15. McIntosh Street @ Wilkinson Street
16. McIntosh Street @ Wayne Street

PDP Classification: Major Minor

Federal Oversight: Full Oversight Exempt State Funded Other

Environmental responsibilities (Studies/Documents/Permits): Edwards Pitman is under contract to perform this work.

Environmental impacts by section: *If environmental impacts are expected to be increased by the proposed revision, please list by section below; if not, please remove this portion. Include any changes to current permit(s) or mitigation required in the appropriate section(s) below.*

NEPA: The environmental document will need to include these two intersections. However, a PCE is still anticipated.

Ecology: Since these intersections are located in a urban section, ecology impacts are not anticipated.

Archeology: Milledgeville has registered archeology sites in its downtown section. One of these intersection may have impacts, depending on the req'd RW.

History: Milledgeville is located in a registered historical district. It is undetermined if these two intersections will have adverse effects on the historic property.

Air & Noise: Additional impacts to Air and Noise are not anticipated.

Public Involvement: Public involvement is not required on this project. However, with the changes to some of the properties, stakeholders meetings will be held.

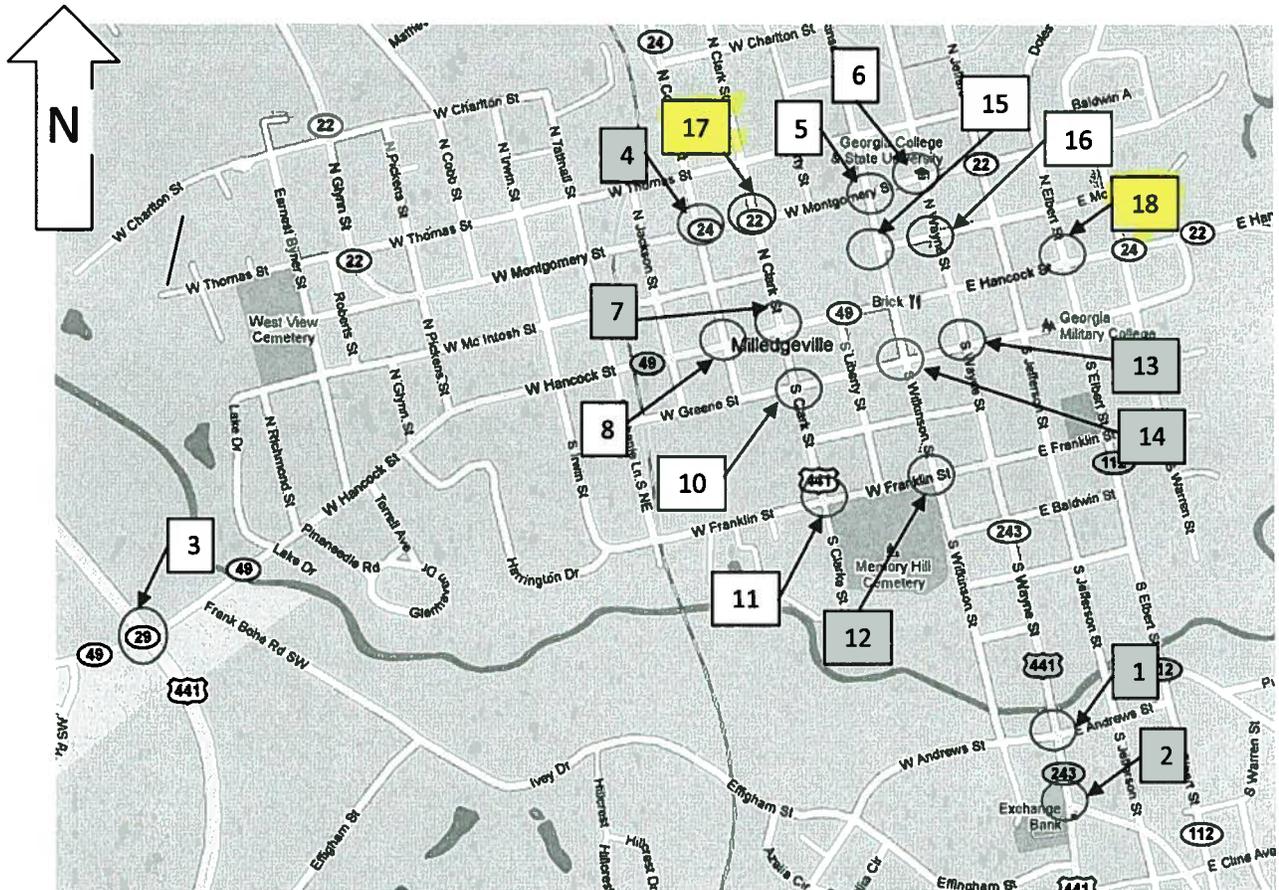
PROJECT COST & ADDITIONAL INFORMATION

| Updated Cost Estimate | | Date of Estimate |
|---------------------------------|---------------------|------------------|
| Base Construction Cost: | 2,154,868.67 | 3/13/2012 |
| Engineering and Inspection: | 107,743.43 | 3/13/2012 |
| Liquid AC Adjustment: | \$0.00 | 3/13/2012 |
| <u>Total Construction Cost:</u> | <u>2,262,612.10</u> | <u>3/13/2012</u> |
| | | |
| Right-of-Way: | \$148,000.00* | 2/2/2012 |
| | | |
| Utilities (reimbursable costs): | \$50,000.00 | 3/12/2012 |
| | | |
| Environmental Mitigation: | \$0.00 | |
| | | |
| TOTAL PROJECT COST: | 2,460,612.10 | |

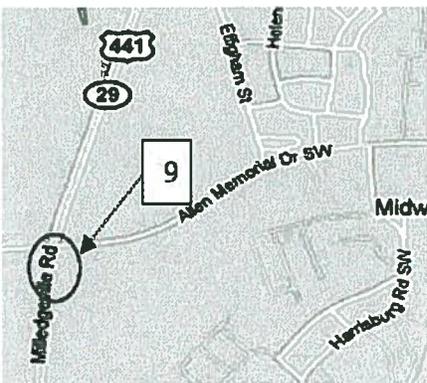
*This cost increase due to administrative and legal costs.

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Comments: None.



NOT TO SCALE



NOT TO SCALE

PROJECT LOCATION MAP

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. CSSTP-0007-00(362), Baldwin County
SR 22; SR 29; SR 29 BU; SR 49; CS 546 & CS 578
@ 16 Locs
P.I. No. 0007362

OFFICE Program Delivery

DATE 3/13/2012

Sue Anne Decker

FROM Michael Haithcock, P.E. Assistant Office Head, Office of Program Delivery

TO Lisa Myers, Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Sue Anne Decker, P.E.

MNGT LET DATE 1/15/2014

MNGT R/W DATE 10/19/2012

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$1,355,568.49

DATE 3/15/2011

RIGHT OF WAY \$87,000.00

DATE 3/15/2011

UTILITIES \$n/a

DATE n/a

REVISED COST ESTIMATES

CONSTRUCTION* \$2,262,612.10

RIGHT OF WAY \$148,000.00

UTILITIES \$50,000.00

* Cost contains Engineering and Inspection.

REASON FOR COST INCREASE There are now 18 total intersections in this project. The original scope only included 3. It was changed in 2011 to 16 intersections, and now to 18 intersections.

CONTINGENCY SUMMARY

| | | |
|-----------------------------|-----------------------|---------------------------|
| Construction Cost Estimate: | \$2,154,868.67 | (Base Estimate) |
| Engineering and Inspection: | \$107,743.43 | (Base Estimate x 5 %) |
| Total Liquid AC Adjustment | \$ 0.00 | (From attached worksheet) |
| Construction Total: | \$2,262,612.10 | |
| Utility Total: | \$50,000.00 | |

REIMBURSABLE UTILITY COST

| Utility Owner | Reimbursable Costs |
|------------------------------------|--------------------|
| <u>Georgian Power Distribution</u> | <u>50,000.00</u> |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Attachments

CC: Kathy Zahul, State Traffic Engineer
Attn: Jim Tolson

DETAILED COST ESTIMATE



Job: 0007362

JOB NUMBER: 0007362

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: SR 22;SR 29;SR 49;SR 243;CS 546&CS 578 @16 LOC IN BALDWIN CO
TRAFFIC SIGNAL UPGRADES

ITEMS FOR JOB 0007362

0010 - TRAFFIC SIGNALS

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--------------------------------------|----------|----------|-------|--------------|--|-----------------------|
| 0050 | 210-0100 | 1.000 | LS | \$200,000.00 | GRADING COMPLETE - 0007362 | \$200,000.00 |
| 0100 | 441-0108 | 1800.000 | SY | \$53.95 | CONC SIDEWALK, 8 IN | \$97,107.80 |
| 0105 | 441-0748 | 30.000 | SY | \$57.96 | CONC MEDIAN, 6 IN | \$1,738.90 |
| 0110 | 441-5002 | 900.000 | LF | \$12.30 | CONC HEADER CURB, 6", TP 2 | \$11,068.95 |
| 0120 | 441-6222 | 1800.000 | LF | \$16.67 | CONC CURB & GUTTER/ 8"X30"TP2 | \$30,013.24 |
| 0200 | 615-1200 | 5400.000 | LF | \$12.14 | DIRECTIONAL BORE - 3 IN | \$65,538.50 |
| 0495 | 636-1041 | 450.000 | SF | \$38.53 | HWY SIGNS,TP 2MAT,REFL SH TP 9 | \$17,339.15 |
| 0300 | 639-4004 | 54.000 | EA | \$8,000.00 | STRAIN POLE, TP IV | \$432,000.00 |
| 0402 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 1 | \$50,000.00 |
| 0404 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 2 | \$50,000.00 |
| 0406 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 3 | \$50,000.00 |
| 0408 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 4 | \$50,000.00 |
| 0410 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 5 | \$50,000.00 |
| 0412 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 6 | \$50,000.00 |
| 0414 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 7 | \$50,000.00 |
| 0416 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 8 | \$50,000.00 |
| 0418 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 9 | \$50,000.00 |
| 0420 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 10 | \$50,000.00 |
| 0422 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 11 | \$50,000.00 |
| 0424 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 12 | \$50,000.00 |
| 0426 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 13 | \$50,000.00 |
| 0428 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 14 | \$50,000.00 |
| 0430 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 15 | \$50,000.00 |
| 0432 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 16 | \$50,000.00 |
| 0434 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 17 | \$50,000.00 |
| 0436 | 647-1000 | 1.000 | LS | \$50,000.00 | TRAF SIGNAL INSTALLATION NO - 18 | \$50,000.00 |
| 0450 | 647-2130 | 54.000 | EA | \$391.00 | PULL BOX, PB-3 | \$21,114.00 |
| 0500 | 653-0120 | 36.000 | EA | \$76.32 | THERM PVMT MARK, ARROW, TP 2 | \$2,747.49 |
| 0505 | 653-1501 | 7200.000 | LF | \$0.43 | THERMO SOLID TRAF ST 5 IN, WHI | \$3,115.58 |
| 0510 | 653-1502 | 7200.000 | LF | \$0.43 | THERMO SOLID TRAF ST, 5 IN YEL | \$3,113.64 |
| 0515 | 653-1704 | 1800.000 | LF | \$3.98 | THERM SOLID TRAF STRIPE,24",WH | \$7,170.34 |
| 0520 | 653-1804 | 7200.000 | LF | \$2.13 | THERM SOLID TRAF STRIPE, 8",WH | \$15,309.50 |
| 0525 | 653-3501 | 200.000 | GLF | \$0.49 | THERMO SKIP TRAF ST, 5 IN, WHI | \$97.09 |
| 0530 | 653-3502 | 200.000 | GLF | \$0.52 | THERMO SKIP TRAF ST, 5 IN, YEL | \$103.44 |
| 0535 | 653-6004 | 900.000 | SY | \$3.54 | THERM TRAF STRIPING, WHITE | \$3,181.68 |
| 0540 | 653-6006 | 900.000 | SY | \$3.55 | THERM TRAF STRIPING, YELLOW | \$3,191.96 |
| 0545 | 654-1001 | 180.000 | EA | \$4.39 | RAISED PVMT MARKERS TP 1 | \$789.62 |
| 0550 | 654-1003 | 180.000 | EA | \$4.62 | RAISED PVMT MARKERS TP 3 | \$831.43 |
| 0070 | 682-6233 | 7200.000 | LF | \$3.08 | CONDUIT, NONMETL, TP 3, 2 IN | \$22,142.09 |
| 0725 | 687-1000 | 1.000 | LS | \$72,000.00 | TRAFFIC SIGNAL TIMING - 0007362 | \$72,000.00 |
| 0800 | 927-0300 | 18.000 | EA | \$2,196.77 | 2070 MNT SPRD SPEC WIRE. TRANS. W/ RS | \$39,541.85 |
| 0805 | 927-0500 | 18.000 | EA | \$752.19 | DIRECTIONAL RADIO ANT AND CONNECT CABLE | \$13,539.39 |
| 0810 | 927-0600 | 1.000 | EA | \$972.96 | OMNI DIRECT RADIO ANT AND CONNECT CABLE | \$972.96 |
| 0815 | 927-0800 | 18.000 | EA | \$4,733.26 | SPREAD SPECTRUM WIRELESS RADIO SURVEY | \$85,198.64 |
| 0820 | 927-0900 | 1.000 | LS | \$5,000.00 | SPREAD SPECTRUM WIRELESS TRAINING | \$5,000.00 |
| 0825 | 935-6562 | 18.000 | EA | \$1,740.63 | EXT TRNSCVR,DRP&RPT,1310SM,(SIGNAL JOBS) | \$31,331.27 |
| SUBTOTAL FOR TRAFFIC SIGNALS: | | | | | | \$2,085,298.61 |

DETAILED COST ESTIMATE



Job: 0007362

0020 - EROSION CONTROL

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--------------------------------------|----------|----------|-------|----------|---------------------------------|-------------------|
| 0010 | 163-0232 | 1.000 | AC | \$381.82 | TEMPORARY GRASSING | \$381.82 |
| 0015 | 163-0240 | 10.000 | TN | \$300.43 | MULCH | \$3,004.29 |
| 0700 | 700-6910 | 1.000 | AC | \$417.96 | PERMANENT GRASSING | \$417.96 |
| 0705 | 700-7000 | 7.000 | TN | \$69.91 | AGRICULTURAL LIME | \$489.36 |
| 0710 | 700-8000 | 2.000 | TN | \$398.00 | FERTILIZER MIXED GRADE | \$796.00 |
| 0715 | 700-8100 | 300.000 | LB | \$1.77 | FERTILIZER NITROGEN CONTENT | \$530.14 |
| 0720 | 713-3001 | 4000.000 | SY | \$0.62 | WOOD FIBER BLANKET, TP I,SLOPES | \$2,473.56 |
| SUBTOTAL FOR EROSION CONTROL: | | | | | | \$8,093.13 |

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|-----------------------|----------|----------|-------|-------------|---------------------------|--------------------|
| 0005 | 150-1000 | 1.000 | LS | \$61,477.03 | TRAFFIC CONTROL - 0007362 | \$61,477.03 |
| SUBTOTAL FOR : | | | | | | \$61,477.03 |

TOTALS FOR JOB 0007362

| | |
|--|-----------------------|
| ITEMS COST: | \$2,154,868.67 |
| COST GROUP COST: | \$0.00 |
| ESTIMATED COST: | \$2,154,868.67 |
| CONTINGENCY PERCENT: | 0.00 |
| ENGINEERING AND INSPECTION: | 0.00 |
| ESTIMATED COST WITH CONTINGENCY AND E&I: | \$2,154,868.67 |

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 2/2/2012 Project: CSSTP-0007-00(362)
 Revised: County: Baldwin
 PI: 0007362

Description: Traffic Signal Upgrade
 Project Termini: Traffic Signal Upgrade

Parcels: 4 Existing ROW: Varies
 Required ROW: Varies

Land and Improvements \$56,250.00

| | |
|----------------------|-------------|
| Proximity Damage | 10 |
| Consequential Damage | \$0.00 |
| Cost to Cures | \$25,000.00 |
| Trade Fixtures | \$0.00 |
| Improvements | \$0.00 |

Valuation Services \$8,000.00

Legal Services \$40,200.00

Relocation \$8,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$147,950.00

TOTAL ESTIMATED COSTS (ROUNDED) \$148,000.00

| Preparation Credits | Hours | Signature |
|---------------------|-------|-----------|
| | | |
| | | |
| | | |

Prepared By: Hashone Alexander CG#: 256999 2/2/2012
 Approved By: Hashone Alexander CG#: 256999 2/2/2012

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0007-00(362) – Baldwin County
P.I. No. 0007362

OFFICE Tennille - Utilities

DATE March 12, 2012

FROM Lynn Beam
District Utilities Engineer

TO
ATTN Sue Anne Decker, Project Manager

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

As requested by your office, we are furnishing you a Preliminary Utility Cost estimate for the relocation of reimbursable utilities within the referenced project.

The total estimated reimbursable relocation cost for this project is \$50,000 (Georgia Power Company Distribution).

Please be advised this is an estimate and may be revised when project plans are developed.

If you should have questions or need additional information please contact Jimmy Hobby at 478-552-4637.

LB/JFH

cc: Jeff Baker, State Utilities Engineer

From: [Zahul, Kathy](#)
To: [Decker, Sue Anne](#); [Tolson, Jim](#)
Subject: RE: 0007362 Baldwin - Add 2 intersections to project?
Date: Tuesday, November 15, 2011 7:03:08 PM

Just to close the loop, I gave verbal approval to Sue Anne a couple of weeks ago to proceed with including the two additional intersections.

From: Decker, Sue Anne
Sent: Thursday, November 03, 2011 3:11 PM
To: Zahul, Kathy; Tolson, Jim
Subject: FW: 0007362 Baldwin - Add 2 intersections to project?

Kathy/Jim,

The District met with the Consultant on Friday last week to walk this project. The District wanted to add 2 intersections to this project. They said these 2 should have been on the list from the beginning. I'm not sure why they weren't included in the original scope. This change would require a change to both the schedule and budget.

Currently, the consultant is obtaining survey. We are also in the progress of adding stakeholder meetings to the scope. We could add this as well. The stakeholder meetings will not affect the schedule, just the budget.

If we decide to upgrade these intersections at a later time, it would cost the Department more money per intersection than if they were included in this project. Additionally, these 2 intersections will be the only 2 in the downtown area that haven't been upgraded.

In my opinion we should add them, but I know how Gerald is about scope creep. Please let me know if these intersections should be added. If you would like to meet and discuss this issue, Wolverton and Associates and I will be at OGC on Friday morning to discuss all our projects.

If you have any questions/comments, please feel free to contact me.

Best Regards,

Sue Anne H. Decker, P.E.
Project Manager
Office of Program Delivery
Office: 706-646-6974
Blackberry: 404-987-1990

115 Transportation Blvd
Thomaston, GA 30286