

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0007361 **OFFICE** Design Policy & Support
CSSTP-0007-00(361)
GDOT District 2 - Tennille
Burke & Jefferson Counties **DATE** April 12, 2012
Traffic Signal & Pedestrian Improvements
@ SR 4, SR-23, SR 24, SR 56, & SR 121

FROM *Keith 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 Preconstruction Engineer
Lynn Bean, District Utilities Engineer
Vonda Everett, District Environmentalist
Sue Anne Decker, Project Manager
BOARD MEMBER - 12th Congressional District

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

Project Type: <u>Traffic Signal Upgrade</u>	P.I. Number: <u>0007361</u>
GDOT District: <u>2</u>	County: <u>Burke and Jefferson</u>
Federal Route Number: <u>1, 25, 25BY</u>	State Route Number: <u>4, 17, 23, 24, 56, 80, 121, 121BY</u>

Remove the signal equipment upgrade from intersection SR 4 @ SR 24. Just install the pedestrian accommodations.

Submitted for approval:

<u>Bobby Hilliard</u> Office Head (GDOT Project Manager's Office)	<u>3-28-2012</u> DATE
<u>Sue Anne Decker</u> GDOT Project Manager	<u>3/14/12</u> DATE

Recommendation for approval:

<u>GLENN BOWMAN*/EKP</u> State Environmental Administrator	<u>3/30/2012</u> DATE
<u>KATHY ZAHUL*/EKP</u> State Traffic Engineer	<u>3/30/2012</u> 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).

<u>Cynthia L. Vande</u> State Transportation Planning Administrator (recommendation required)	<u>3-29-12</u> DATE
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** -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 proposed project is located in Burke (89%) and Jefferson (11%) Counties. The project's eight (8) locations consist of traffic signalization upgrades using the latest GDOT 2070 controller hardware and software platforms; interconnected 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 121@ 7th Street
2. SR 23 @ SR 24/C.H. Perry Ave.
3. SR 24 @ SR 121
4. SR 24 @ Shadrack Street
5. SR 56/SR 80 @ SR 121 Byp/Waynesboro Bypass
6. SR 121 @ 9th Street
7. SR 56 @ Myrick Street
8. SR 4 @ SR 24

PDP Classification: Major Minor

Federal Oversight: Full Oversight Exempt State Funded Other

Projected Traffic AADT as shown in the approved Concept Report:

Open Year (20XX):

Design Year (20YY):

Traffic Data is not required for this project. It does not add capacity.

Updated Traffic AADT:

Open Year (20XX):

Design Year (20YY):

Traffic Data is not required for this project. It does not add capacity.

Functional Classification (Mainline):

- SR 121/US 25 – Urban Principal Arterial - Other
- SR 121 BYP – Urban Principal Arterial - Other
- SR 23 – Rural Major Collector
- SR 24/C.H. Perry Ave. – Rural Minor Arterial
 (@ SR 121 and @ Shadrack) - Urban Principal Arterial - Other
- SR 56 – Urban Principal Arterial – Other
- SR 4 – Rural Principal Arterial - Other
- 7th Street – Urban Minor Arterial
- Shadrack Street – Urban Minor Arterial (on the north side of SR 24)
 Local Street (on the south side of SR 24)
- 9th Street – Urban Minor Arterial (on the west side of SR 121)
 Local Street (on the east side of SR 121)
- Myrick Street - Urban Minor Arterial (on the north side of SR 56)
 Local Street (on the south side of SR 56)

VE Study anticipated: No Yes Completed – Date:

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<p>At SR 4 @ SR 24 the approved concept report states that traffic signal equipment will be upgraded and pedestrian accommodations installed.</p>	<p>We recommend removing the traffic signal equipment upgrade from this project. However, we will still include the pedestrian accommodations.</p>
<p>Reason(s) for change: At SR 4 @ SR 24, the traffic signal upgrades required the replacement of 3 joint use poles because the spacing (clearance) between the wires doesn't not meet current standards. The utility cost for these poles is reimbursable and the estimated cost to replace them and the affect poles in-line is \$250,000.00. The Traffic Signal Upgrade Program cannot fund this large reimbursable cost.</p> <p>Additionally GDOT's has a widening project at this intersection, PI# 222150- Jefferson, which has CST funding in 2017. This widening will affect the current utility pole line. If we upgraded the traffic signal and moved the poles in this project, they would have to be moved again in 222150- Jefferson. This would cause two reimbursable utility costs to GDOT. We cannot move the poles to the location needed for 222150- in this project because we cannot purchase the amount of RW needed.</p> <p>Due to funding constraints and a future widening project, PI# 222150- Jefferson Co, we recommend removing the traffic signal equipment upgrade from this project. We will still include the pedestrian accommodations.</p>	

ENVIRONMENTAL

Air Quality:

Is the project located in a PM 2.5 Non-attainment area? No Yes
 Is the project located in an Ozone Non-attainment area? No Yes

Potential environmental impacts of proposed revision: This change does not affect the amount of req'd RW. Therefore, it does not affect the approved environmental document.

Have proposed revisions been reviewed by environmental staff? No Yes
 This change does not affect the amount of req'd RW. Therefore, it does not affect the approved environmental document.

Environmental responsibilities (Studies/Documents/Permits): Edwards Pitman is under contract for environmental activities.

PROJECT COST & ADDITIONAL INFORMATION

Updated Cost Estimate		Date of Estimate
Base Construction Cost:	1,153,716.93	3/16/2012
Engineering and Inspection:	57,685.85	3/16/2012
Liquid AC Adjustment:	\$0.00	3/16/2012
<u>Total Construction Cost:</u>	1,211,402.78*	3/16/2012
Right-of-Way:	\$70,000.00	Authorized 7/25/2011
Utilities (reimbursable costs):	\$60,000.00	3/16/2012
Environmental Mitigation:	N/A	
TOTAL PROJECT COST:	1,341,402.78	3/22/2012

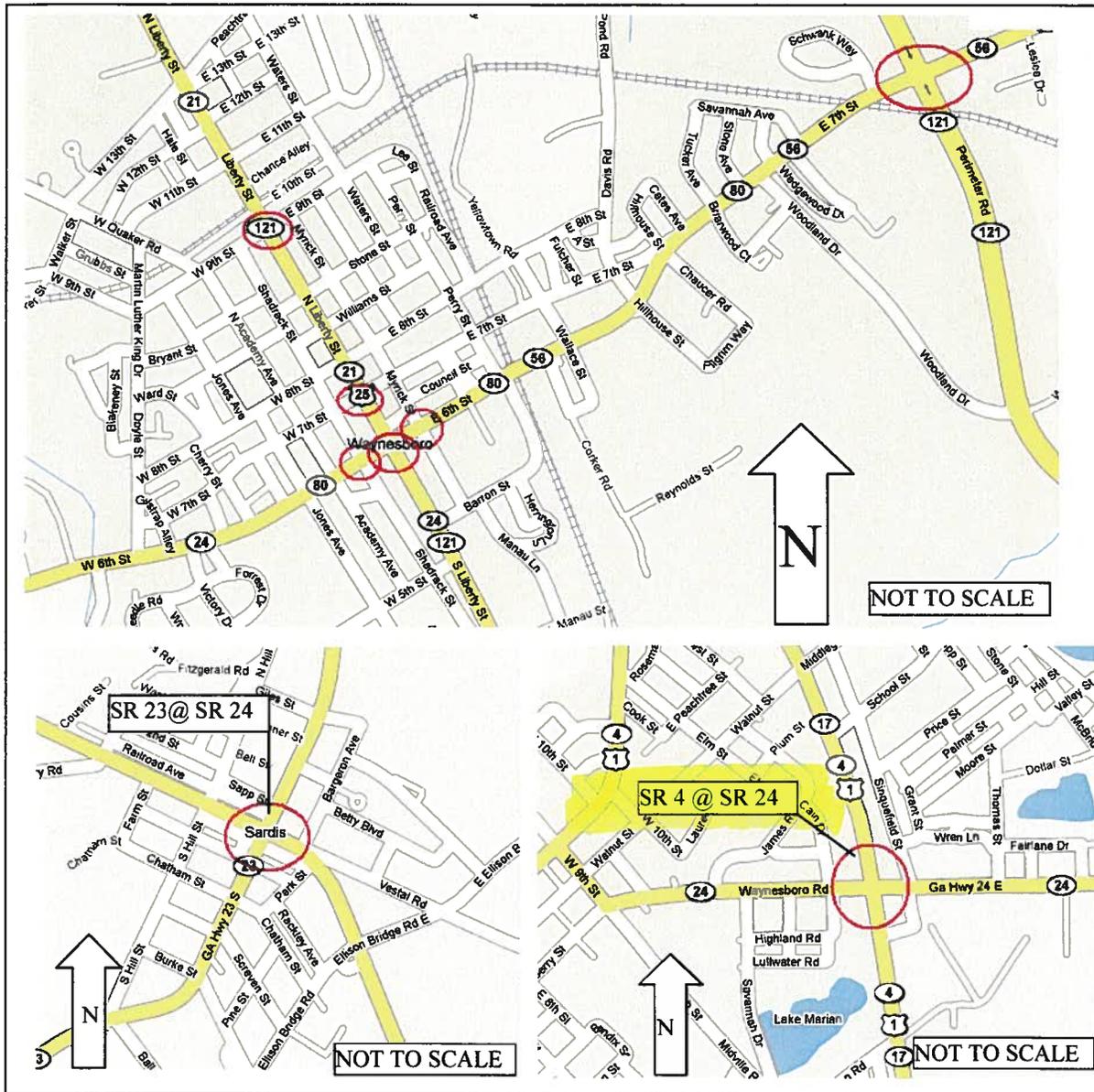
*Cost contains 5% Engineering and Inspection.

Recommendation: we recommend that the traffic signal equipment upgrade be removed from intersection SR 4 @ SR 24 and that the pedestrian accommodation remain in the scope of this project.

Comments: None.

Attachments:

1. Sketch map
2. Cost Estimate
3. Email from Traffic Operations stating their concurrence to remove the traffic signal upgrade from intersection SR 4 @ SR 24.



PROJECT LOCATION MAP

DETAILED COST ESTIMATE



Job: 0007361

JOB NUMBER: 0007361

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

**DESCRIPTION: SR 4; SR 23; SR 24; SR 56; SR 121 - TRAFFIC SIGNAL UPGRADES
BURKE AND JEFFERSON COUNTIES**

ITEMS FOR JOB 0007361

0010 - ROADWAY ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$50,000.00	TRAFFIC CONTROL - CSSTP-0007-00(361)	\$50,000.00
0010	210-0100	1.000	LS	\$25,000.00	GRADING COMPLETE - CSSTP-0007-00(361)	\$25,000.00
0110	441-0108	1860.000	SY	\$48.34	CONC SIDEWALK, 8 IN	\$89,919.49
0120	441-5002	280.000	LF	\$14.02	CONC HEADER CURB, 6", TP 2	\$3,925.33
0125	441-6222	1605.000	LF	\$15.02	CONC CURB & GUTTER/ 8"X30"TP2	\$24,099.62
0130	500-9999	60.000	CY	\$200.00	CL B CONC,BASE OR PVMT WIDEN	\$12,000.00
0135	550-1180	70.000	LF	\$33.32	STM DR PIPE 18",H 1-10	\$2,332.61
0140	610-9001	11.000	EA	\$101.18	REM SIGN	\$1,113.02
0320	611-3000	1.000	EA	\$1,957.02	RECONSTR CATCH BASIN, GROUP 1	\$1,957.02
0325	611-3010	13.000	EA	\$1,071.13	RECONSTR DROP INLET, GROUP 1	\$13,924.68
0330	611-5551	7.000	EA	\$178.13	RESET SIGN	\$1,246.88
0335	611-8040	1.000	EA	\$866.19	ADJUST DROP INLET TO GRADE	\$866.19
0340	611-9000	2.000	EA	\$498.39	CAPPING MINOR STRUCTURE	\$996.77
0310	634-1200	2.000	EA	\$107.72	RIGHT OF WAY MARKERS	\$215.44
0200	668-2100	2.000	EA	\$1,724.25	DROP INLET, GP 1	\$3,448.50
0205	668-6112	180.000	LF	\$225.00	TRENCH DRAIN, 12 IN	\$40,500.00
SUBTOTAL FOR ROADWAY ITEMS:						\$271,646.55

0020 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0360	163-0232	1.000	AC	\$362.23	TEMPORARY GRASSING	\$362.23
0365	163-0240	10.000	TN	\$173.93	MULCH	\$1,739.31
0380	700-6910	1.000	AC	\$466.59	PERMANENT GRASSING	\$466.59
0385	700-7000	1.000	TN	\$60.88	AGRICULTURAL LIME	\$60.88
0395	700-8000	10.000	TN	\$487.74	FERTILIZER MIXED GRADE	\$4,877.38
0397	700-8100	100.000	LB	\$2.49	FERTILIZER NITROGEN CONTENT	\$249.43
0415	700-9300	50.000	SY	\$4.24	SOD	\$211.99
0420	713-3001	450.000	SY	\$0.62	WOOD FIBER BLANKET,TP 1,SLOPES	\$277.43
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$8,246.24

0040 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0545	653-0100	5.000	EA	\$368.15	THERM PVMT MARK, RR/HWY X SYM	\$1,840.77
0550	653-0120	43.000	EA	\$75.93	THERM PVMT MARK, ARROW, TP 2	\$3,264.93
0570	653-1501	7765.000	LF	\$0.43	THERMO SOLID TRAF ST 5 IN, WHI	\$3,317.44
0574	653-1502	8965.000	LF	\$0.41	THERMO SOLID TRAF ST, 5 IN YEL	\$3,651.27
0575	653-1704	705.000	LF	\$4.06	THERM SOLID TRAF STRIPE,24",WH	\$2,859.98
0580	653-1804	7525.000	LF	\$2.02	THERM SOLID TRAF STRIPE, 8", WH	\$15,166.04
0595	653-3501	1485.000	GLF	\$0.37	THERMO SKIP TRAF ST, 5 IN, WHI	\$545.22
0600	653-3502	90.000	GLF	\$0.68	THERMO SKIP TRAF ST, 5 IN, YEL	\$59.48
0605	653-6004	1010.000	SY	\$3.53	THERM TRAF STRIPING, WHITE	\$3,562.40
0610	653-6006	180.000	SY	\$3.72	THERM TRAF STRIPING, YELLOW	\$670.44
0615	654-1001	146.000	EA	\$4.02	RAISED PVMT MARKERS TP 1	\$586.29
0620	654-1003	148.000	EA	\$4.66	RAISED PVMT MARKERS TP 3	\$679.87
0800	935-6562	5.000	EA	\$1,530.27	EXT TRNSCVR,DRP&RPT,1310SM,(SIGNAL JOBS)	\$7,651.36
SUBTOTAL FOR SIGNING AND MARKING:						\$43,855.49

DETAILED COST ESTIMATE



Job: 0007361

0050 - SIGNAL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0630	615-1200	635.000	LF	\$11.54	DIRECTIONAL BORE - 3 IN	\$7,325.33
0640	615-1200	940.000	LF	\$10.99	DIRECTIONAL BORE - 5 IN	\$10,333.88
0650	636-1041	252.000	SF	\$41.10	HWY SIGNS,TP 2MAT,REFL SH TP 9	\$10,358.42
0680	639-3004	3.000	EA	\$8,300.00	STEEL STRAIN POLE, TP IV - WITH DUAL 35 FT/45 FT MAST ARMS	\$24,900.00
0685	639-3004	2.000	EA	\$8,400.00	STEEL STRAIN POLE, TP IV - WITH DUAL 35 FT/50 FT MAST ARMS	\$16,800.00
0690	639-3004	1.000	EA	\$8,700.00	STEEL STRAIN POLE, TP IV - WITH DUAL 40 FT/45 FT MAST ARMS	\$8,700.00
0695	639-3004	1.000	EA	\$8,700.00	STEEL STRAIN POLE, TP IV - WITH DUAL 40 FT/50 FT MAST ARMS	\$8,700.00
0700	639-5000	2.000	EA	\$5,694.98	PRESTRESSED CONC STR POLE, TP- 1	\$11,389.95
0710	647-1000	1.000	LS	\$71,303.00	TRAF SIGNAL INSTALLATION NO - 1	\$71,303.00
0715	647-1000	1.000	LS	\$59,672.00	TRAF SIGNAL INSTALLATION NO - 2	\$59,672.00
0720	647-1000	1.000	LS	\$63,707.00	TRAF SIGNAL INSTALLATION NO - 3	\$63,707.00
0725	647-1000	1.000	LS	\$65,302.00	TRAF SIGNAL INSTALLATION NO - 4	\$65,302.00
0730	647-1000	1.000	LS	\$64,110.00	TRAF SIGNAL INSTALLATION NO - 5	\$64,110.00
0735	647-1000	1.000	LS	\$79,093.00	TRAF SIGNAL INSTALLATION NO - 6	\$79,093.00
0740	647-1000	1.000	LS	\$64,372.00	TRAF SIGNAL INSTALLATION NO - 7	\$64,372.00
0745	647-1000	1.000	LS	\$57,145.00	TRAF SIGNAL INSTALLATION NO - 8	\$57,145.00
0750	682-6233	2515.000	LF	\$2.33	CONDUIT, NONMETL, TP 3, 2 IN	\$5,852.43
0755	687-1000	1.000	LS	\$34,400.00	TRAFFIC SIGNAL TIMING - CSSTP-0007-00(361)	\$34,400.00
0760	927-0300	5.000	EA	\$2,196.77	2070 MNT SPRD SPEC WIRE. TRANS. W/ RS	\$10,983.85
0765	927-0500	6.000	EA	\$820.09	DIRECTIONAL RADIO ANT AND CONNECT CABLE	\$4,920.51
0775	927-0800	5.000	EA	\$4,520.46	SPREAD SPECTRUM WIRELESS RADIO SURVEY	\$22,602.28
0780	927-0900	1.000	LS	\$4,500.00	SPREAD SPECTRUM WIRELESS TRAINING CSSTP-0007-00 (361)	\$4,500.00
0805	937-6050	24.000	EA	\$4,900.00	INT VIDEO DET SYS ASMBLY, TP A	\$117,600.00
0810	937-8010	1.000	LS	\$6,000.00	TESTING - VIDEO DETECTION SYSTEM	\$6,000.00
SUBTOTAL FOR SIGNAL:						\$830,070.65

TOTALS FOR JOB 0007361

ITEMS COST:	\$1,153,716.93
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,153,716.93
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,153,716.93

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0007-00 (361) Burke/Jefferson Counties
P.I. No. 0007361

OFFICE Tennille

FROM Lynn Bean, District Utilities Engineer

DATE March 16, 2012

TO Sue Ann Decker, Project Manager

SUBJECT UTILITY COST (ESTIMATE)

As requested by your office, we are furnishing you with a Utility Cost estimate for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE
AT&T	\$0.00	\$0.00
City of Louisville	\$0.00	\$0.00
City of Waynesboro	\$0.00	\$0.00
Comcast Communications	\$0.00	\$0.00
Georgia Power (Distribution)	\$0.00	\$60.00
Georgia Power (Trans)	\$0.00	\$0.00

Total Non-Reimbursement Cost: \$0.00

Total Reimbursable Cost: \$60,000.00

Total Relocation Cost: \$60,000.00

All information pertaining to Georgia Power Company's distribution facilities was provided by Randy Jones.

All information pertaining to Georgia Power Company's transmission facilities was provided by Dan Everitt.

If you have any questions, please contact Jimmy Hobby at 478-552-4637.

LB/JFH

C: Jeff Baker, State Utilities Engineer
Angela Whitworth, Office of Financial Management
Corbertt Reynolds, Area Engineer, Louisville

From: Tolson, Jim
To: Decker, Sue Anne
Subject: RE: 0007361 - SR 4 @ SR 42 - Louisville
Date: Thursday, March 15, 2012 10:51:07 AM

I concur that intersection of SR 4 @ SR 24 on PI 0007361 shall only include pedestrian accommodations.

All other intersection improvements shall be included in PI 222150.

Jim Tolson, P.E.
State Signal Engineer
GDOT Office of Traffic Operations
935 East Confederate Ave., Bldg 5
Atlanta, GA 30316
Office: 404-624-7119
Mobile: 404-694-6579
Fax: 404-624-7116

From: Decker, Sue Anne
Sent: Friday, March 02, 2012 10:39 AM
To: 'Todd DeVos'; 'Tommy Wright'
Cc: Hobby, James; Tolson, Jim; Zehngraff, Scott E.
Subject: 0007361 - SR 4 @ SR 42 - Louisville

Gentlemen,

Due to the utility expenses at this intersection, we will only include the pedestrian accommodations at this intersection. I will revise the concept report to reflect this change.

The signal will be upgraded in the widening project, 222150- Jefferson Co. This project has 2017 CST funding.

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