

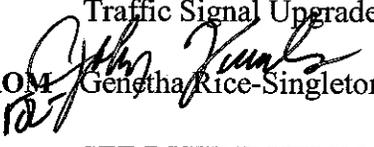
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 0007361, Burke/Jefferson Counties
CSSTP-0007-00(361)
SR 4, 23,24,56,80,121 and 121 BYP-
Traffic Signal Upgrade

OFFICE: Program Control

DATE: January 6, 2010


FROM Genetha Rice-Singleton, Program Control Administrator

TO SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Paul Liles
Anthony Collins
George Brewer
Cynthia Burney
BOARD MEMBER

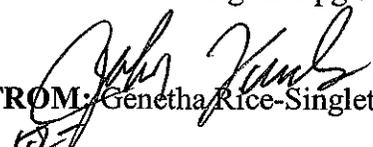
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0007361, Burke/Jefferson Counties
CSSTP-0007-00(361)
SR 4, 23,24,56,80,121 and 121 BYP-
Traffic Signal Upgrade

OFFICE: Program Control

DATE: December 15, 2009

FROM:  Genetha Rice-Singleton, Program Control Administrator

TO: Gerald M. Ross, P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project consists of signal upgrades, interconnected communications, pedestrian facility improvements, and signal coordination for eight (8) locations within Burke and Jefferson Counties.

- (1) SR 121 @ 7th Street
- (2) SR 23 @ SR 24/CH 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

A combination of growth and aging traffic control equipment within the corridor has created unacceptable levels of congestions. Upgrades to traffic signal control equipment and communications hardware are needed to allow coordination of signals, reduce congestion and improve safety.

The proposed project will provide traffic signalization upgrades using the latest 2070 controller hardware and software platforms. The project will include interconnected communications between intersections using fiber optics, energy savings LED signal heads, pedestrian countdown signals, ADA wheel chair ramps, and crosswalk striping. Traffic signals will be timed to maintain coordinated traffic flow progression through the synchronized intersection. The progression of vehicles along the major roadway will be given the priority even when the characteristics of the roadway traffic flow and control changes. Once a signal timing plan has been completed to optimize traffic flow, any modification to the signal timing to increase green time on minor streets will not adversely affect the traffic progression in the major roadway. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion to be prepared; a Public hearing is not required; time saving procedures are appropriate.

December 15, 2009

The estimated costs for this project are:

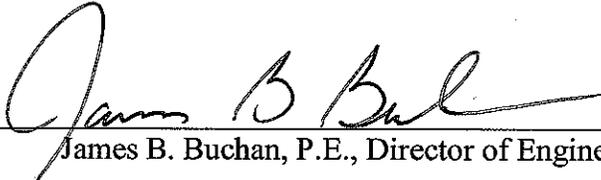
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	\$1,018,940	\$ 900,000	L240F	LUMP
Right-of-way	-0-			
Utilities	\$50,000			

I recommend this project concept be approved.

GRS: JDQ

Attachment

CONCUR



James B. Buchan, P.E., Director of Engineering

APPROVED



Gerald M. Ross, P.E., Chief Engineer

204

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Traffic Operations

PROJECT CONCEPT REPORT

Project Number: ⁵STP-0007-00(361)
County: Burke and Jefferson
P. I. Number: 0007361

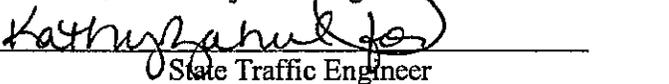
Federal Route Number: 1, 25, 221
State Route Number: 4, 23, 24, 56, 80, 121, 121 BYP

Recommendation for approval:

DATE 28 Aug 2009

DATE 8-31-09

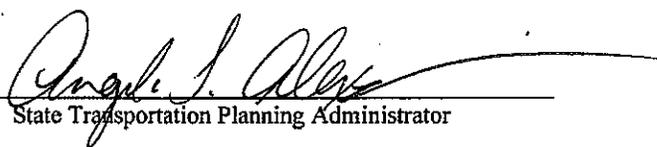


Project Manager


State Traffic Engineer

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

DATE 9/10/09



State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

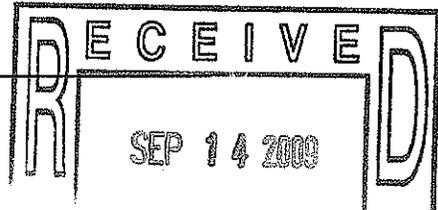
State Environmental/Location Engineer

DATE _____

District Engineer

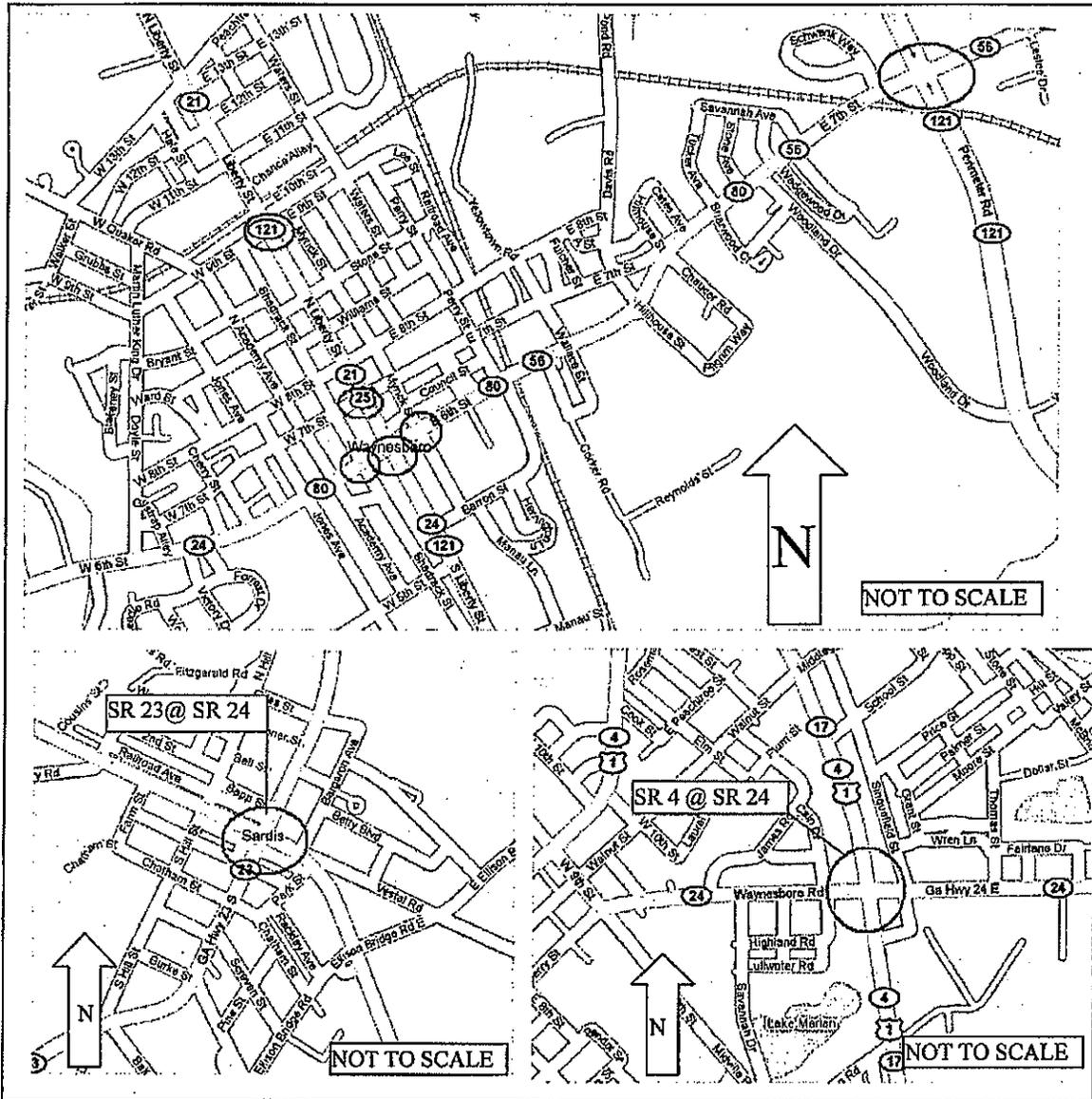
DATE _____

Project Review Engineer



6809-
6810-

Project Concept Report page 2
Project number: CSSTP-0007-00(361)
P.I. Number 0003761
Counties: Burke and Jefferson



PROJECT LOCATION MAP

Need and Purpose:

Burke and Jefferson Counties have continued to grow as more people move into the area. Burke and Jefferson Counties have experienced significant increase in traffic flow through their counties and anticipate continued growth in the future. These Counties have identified needs, improvements, and deficiencies of eight (8) signalized intersections located on both state routes and local streets. The Counties' purpose is to meet transportation goals, achieve economic development, and improve the quality of life by enhancing the interconnection of people, goods, and services within and through the Burke and Jefferson Counties. 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. These specific needs for the signalized intersections improvements will aid in maximizing efficiency and effectiveness and include the following: need for modernization for cost-effective maintenance and communication capability, and signal operational capabilities to accommodate pedestrian traffic.

Description of the proposed project:

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

Is the project located in a Non-attainment area? Yes No

PDP Classification: Major Minor

Federal Oversight: Full Oversight (), Exempt(X), State Funded (), or Other ()

Functional Classification: SR 121/US 25 – Urban Arterial
SR 121 BYP – Urban Arterial
SR 23 – Urban Collector
SR 24/C.H. Perry Ave. – Urban Collector
SR 56 – Urban Collector
SR 4 – Urban Collector
S. 7th Street – Local
Shadrack Street – Local
9th Street – Local
Myrick Street - Local

U. S. Route Number(s): 25 **State Route Number(s):** 4, 23, 24, 56, 80, 121, 121 BYP

Traffic (AADT):

Current Year: N/A Design Year: N/A
(This project does not add capacity.)

Existing design features:

- Typical Section:
 - SR 121: 2-12' thru lanes and 1-12' left turn lane with parallel parking and curb and gutter
 - SR 23: 2-12' lanes with parallel side street parking
 - SR 24: 2-12' lane with curb and gutter at its intersection with SR 23, 2-12' foot lanes and a 12' left turn lane at its intersection with SR 121 and Shadrack Street
 - SR 56: 4 lane divided highway with grassed medians, Type B left turn lanes, right turn lanes separated by a striped island
 - SR 4: 2-12' lanes with curb and gutter
 - SR 121 Byp: 2-12' lane, with left and right turn lanes at its intersection with SR 56, the right turn lanes are separated by striped islands
 - Shadrack Street: 2-12' lanes and curb and gutter
 - 7th Street – 2-12' lanes
 - 9th Street: 2-12' lanes
 - Myrick Street: 2-12' lanes
- Posted speed: varies 25-35 mph
- Maximum degree of curvature: N/A
- Maximum grade: N/A %
- Width of right of way: varies 60-120 ft
- Major structures: N/A
- Major interchanges or intersections along the project: N/A

Proposed Design Features:

- Proposed typical section(s): Same as existing for all intersections
- Design speed: N/A
- Right of way
 - Width: Same as existing
 - Easements: Temporary (), Permanent (), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (), Other ().
 - Number of parcels: 0 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges (N/A)
 - Retaining walls (N/A)
- Major intersections and interchanges: N/A
- Traffic control during construction: Traffic to remain on existing streets with limited lane closures.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(x)
ROADWAY WIDTH:	()	()	(x)
SHOULDER WIDTH:	()	()	(x)
VERTICAL GRADES:	()	()	(x)
CROSS SLOPES:	()	()	(x)
STOPPING SIGHT DISTANCE:	()	()	(x)
SUPERELEVATION RATES:	()	()	(x)
HORIZONTAL CLEARANCE:	()	()	(x)
SPEED DESIGN:	()	()	(x)
VERTICAL CLEARANCE:	()	()	(x)
BRIDGE WIDTH:	()	()	(x)
BRIDGE STRUCTURAL CAPACITY:	()	()	(x)

- Design Variances; (None).
- Environmental concerns:
 - No 404 permit anticipated at this time.
 - No impacts are expected to water quality.
 - UST's are present and vary from location to location.
 - There is history in the vicinity of some of the intersections.
 - No sites require preservation in place.
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements: (*Communications, Power, Gas, Petroleum, ITS, Railroads, etc.*)
- VE Study Required: Yes () NO (X)

Project Concept Report page 6
Project number: CSSTP-0007-00(361)
P.I. Number 0003761
Counties: Burke and Jefferson

Project responsibilities:

- Design: GDOT
- Right of Way Acquisition: None
- Relocation of Utilities: GDOT
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: N/A
- Providing detours: N/A

Coordination

- Initial Concept Meeting date and brief summary: N/A
- Concept meeting date and brief summary: N/A
- P. A. R. meetings, dates and results: N/A
- FEMA, USCG, and/or TVA: N/A
- Public involvement: N/A
- Local government comments: N/A
- Other projects in the area: N/A
- Other coordination to date: N/A
- Railroads (*None anticipated*)

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: ~~6~~ ⁹ Months. *9 - requested by OEL*
- Time to complete preliminary construction plans: 2 Months.
- Time to complete right of way plans: N/A Months.
- Time to complete the Section 404 Permit: N/A Months.
- Time to complete final construction plans: 2 Months.
- Time to complete to purchase right of way: 12 Months, (if required)
- List other major items that will affect the project schedule: none

Other alternates considered: N/A

Comments: *None*

Attachments:

1. Notice of Location and Design Approval
2. Cost Estimate

NOTICE OF LOCATION AND DESIGN APPROVAL

PROJECT: CSSTP-0007-00(361), BURKE & JEFFERSON COUNTIES, P.I. NO. 0007361

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above projects.

Date of Location and Design Approval: JANUARY 6, 2010

Project ⁵CSSTP-0007-00(361) in Burke and Jefferson Counties consists of signal upgrades, interconnected communications, pedestrian facility improvements, and signal coordination for eight (8) locations within Burke and Jefferson Counties.

The proposed construction will consist~~s~~ of upgrades using the latest GDOT 2070 controller hardware and software platforms; interconnected communication between intersections using fiber optics, mast arm poles; energy saving LED signal heads, pedestrian countdown signals, ADA wheel chair ramps, and cross walk striping.

Drawings of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Ms. Cynthia C. Burney, P.E.
Office of Traffic Operations
935 E. Confederate Ave, Bldg 24
Atlanta, Georgia 30316
(404) 635-8149
email: cburney@dot.ga.gov

Any interested party may obtain a copy of the drawings or portions thereof by paying a nominal fee and requesting in writing to:

Keith Golden, P.E.
Office of Traffic Operations
935 E. Confederate Ave, Bldg 24
Atlanta, Georgia 30316
email: kgolden@dot.ga.gov

Any written request or communication in reference to this project or notice should include the Project and P.I. Number as noted at the top of this notice.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: PROJECT No. CSSTP-0007-00(361),
Burke and Jefferson Counties
Traffic Signal Upgrades on SR 4, 23, 24, 56, 121,
121 BYP@ 8 locations
P.I. No. 0007361

OFFICE: Traffic Operations

DATE: August 31, 2009

Kathy Golden
FROM: Keith Golden, P.E., State Traffic Engineer

TO: Ron Wishon, State Project Review Engineer

SUBJECT: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Cynthia C. Burney, P.E.

MNGT LET DATE 7/1/2010

MNGT R/W DATE n/a

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$0.00

DATE 5/1/2007

RIGHT OF WAY \$n/a

DATE n/a

UTILITIES \$n/a

DATE n/a

REVISED COST ESTIMATES

CONSTRUCTION* \$1,018,940.83

RIGHT OF WAY \$0.00

UTILITIES \$50,000.00**

* Costs contain 5% Engineering and Inspection and 4% Construction Contingencies.

** Costs contain \$50,000.00 for utility contingency.

REASON FOR COST INCREASE: This is a concept cost estimate.

1625 Amounts for Project: 0007361 Columbia and Richmond Counties - Concept May 2009

Construction Cost Estimate	\$934,808.10
Utility Cost	\$0.00
Engineering & Inspection	\$46,740.41
Construction Contingency	\$37,392.32
Utility Contingency	\$ 50,000.00
Fuel Index Adjustment	<u>\$0.00</u>
Total Contract Amount =	\$934,808.10
Total In-House Engineering Amount =	\$46,740.41
Total Contingency =	\$87,392.32
Total Project Construction Cost =	\$1,068,940.83

Estimate Report for file "0007361"

Section Traffic Signal					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	50000.00	TRAFFIC CONTROL - CSSTP-0007-00(361)	50000.00
441-0108	210	SY	78.24	CONC SIDEWALK, 8 IN	16430.40
615-1200	1800	LF	9.98	DIRECTIONAL BORE -	17964.00
639-3004	8	EA	12104.30	STEEL STRAIN POLE, TP IV	96834.40
643-8200	1200	LF	2.21	BARRIER FENCE (ORANGE), 4 FT	2652.00
647-1000	8	LS	86000.00	TRAFFIC SIGNAL INSTALLATION NO -	688000.00
647-2141	8	EA	1625.50	PULL BOX, PB-4S	13004.00
652-5451	8000	LF	0.20	SOLID TRAFFIC STRIPE, 5 IN, WHITE	1600.00
652-5701	800	LF	1.92	SOLID TRAF STRIPE, 24 IN, WHITE	1536.00
652-6501	1200	GLF	0.12	SKIP TRAFFIC STRIPE, 5 IN, WHITE	144.00
935-6562	8	EA	1715.22	EXTERNAL TRANSCEIVER, DROP AND REPEAT, 1310 SINGLE MODE, (SIGNAL JOBS)	13721.76
Section Sub Total:					\$901,886.56

Section ATMS					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
935-1116	8000	LF	1.59	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 72 FIBER	12720.00
935-1511	800	LF	2.31	OUTSIDE PLANT FIBER OPTIC CABLE, DROP, SINGLE MODE, 6 FIBER	1848.00
935-3206	8	EA	654.98	FIBER OPTIC CLOSURE, AERIAL (SEALED), 72 FIBER	5239.84
935-4010	8	EA	52.14	FIBER OPTIC SPLICE, FUSION	417.12
935-5050	50	EA	41.85	FIBER OPTIC PATCH CORD, SM	2092.50
935-5060	30	EA	161.97	FIBER OPTIC SNOWSHOE	4859.10
935-8000	1	LS	1940.15	TESTING	1940.15
Section Sub Total:					\$29,116.71

Section Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1	AC	283.37	TEMPORARY GRASSING	283.37
163-0240	5	TN	129.90	MULCH	649.50
700-6910	1	AC	674.07	PERMANENT GRASSING	674.07
700-7000	3	TN	60.51	AGRICULTURAL LIME	181.53
700-7010	5	GL	20.53	LIQUID LIME	102.65
700-8000	3	TN	409.57	FERTILIZER MIXED GRADE	1228.71
700-8100	200	LB	2.30	FERTILIZER NITROGEN CONTENT	460.00
713-3002	2500	SY	0.09	WOOD FIBER BLANKET, TP II, SLOPES	225.00
Section Sub Total:					\$3,804.83

Total Estimated Cost: \$934,808.10

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0007361

OFFICE: Environment/Location

**PROJECT No. CSSTP-0007-00(361) / BURKE and
JEFFERSON County**

DATE: 9/17/09

State Route Numbers: 4, 23, 24, 56, 80, 121, 121 BYP

FROM:



Glenn Bowman, P.E., State Environmental/Location Engineer

TO:

Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT:

PROJECT CONCEPT REPORT REVIEW

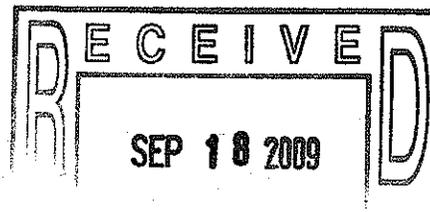
The Concept Report for the above project has been reviewed and appears satisfactory subject to the following comments:

1. Please list who is responsible for the environmental work in the project responsibilities section.
2. It is estimated that environmental work will need nine (9) months for completion.
3. There are numerous historic properties and Historic District located in project corridor (see also page 5 in concept report under Environmental Concerns). If significant impacts to historic 4(f) resources cannot be avoided, then the proposed environmental schedule must be revised significantly.

If you have any questions, please contact Glenn Bowman at (404) 699-4401.

GB:lc

cc: Ron Wishon
Angela Whitworth
Keith Golden
Angela Alexander



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Traffic Operations

PROJECT CONCEPT REPORT

Project Number: ⁵CS~~C~~STP-0007-00(361)

County: Burke and Jefferson

P. I. Number: 0007361

Federal Route Number: 1, 25, 221

State Route Number: 4, 23, 24, 56, 80, 121, 121 BYP

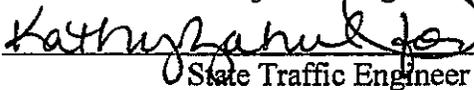
Recommendation for approval:

DATE 28 Aug 2009

DATE 8-31-09



Project Manager



State Traffic Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE 9/17/09



State Environmental/Location Engineer

DATE _____

District Engineer

DATE _____

Project Review Engineer