

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0008299

OFFICE Design Policy & Support

Fulton County

DATE April 2, 2010

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT WITH NOTICE OF LOCATION & DESIGN

Attached is the approved Concept Report with Notice of Location and Design for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Ron Wishon, State Project Review Engineer
Glenn Bowman, State Environmental Administrator
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Keith Golden, State Traffic Operations Engineer
Angela Alexander, State Transportation Planning Administrator
Paul Liles, State Bridge Engineer
Bobby Hilliard, State Program Delivery Engineer
Angela Robinson, Financial Management Administrator
Jeff Baker, State Utilities Engineer
Ted Crabtree, District Planning & Programming Engineer
Jonathan Walker, District Utilities Engineer
Mike Lobdell, District Preconstruction Engineer
Bryant Poole, District Engineer
Ernay Robinson, Project Manager
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Program Delivery
CR 1349/Fairburn Road at CSX Railroad

PROJECT CONCEPT REPORT

Project Number: CSBRG-0008-00(299)

County: Fulton

P. I. Number: 0008299

State Route Number: N/A

County Route Number: 1349

See Project Location Sketch on Page 2

Recommendation for approval:

DATE 12/16/09

MAH
Design Phase Office Head

DATE 12/17/09

Evelyn Robinson MAH
Project Manager

DATE _____

Program Control Administrator

DATE 01/20/10

Glenn Bowman/DKP*
State Environmental Administrator

DATE _____

State Traffic Operations Engineer

DATE _____

Project Review Engineer

DATE 12/17/09

Ray Harkle
District Engineer

DATE _____

State Bridge Design Engineer

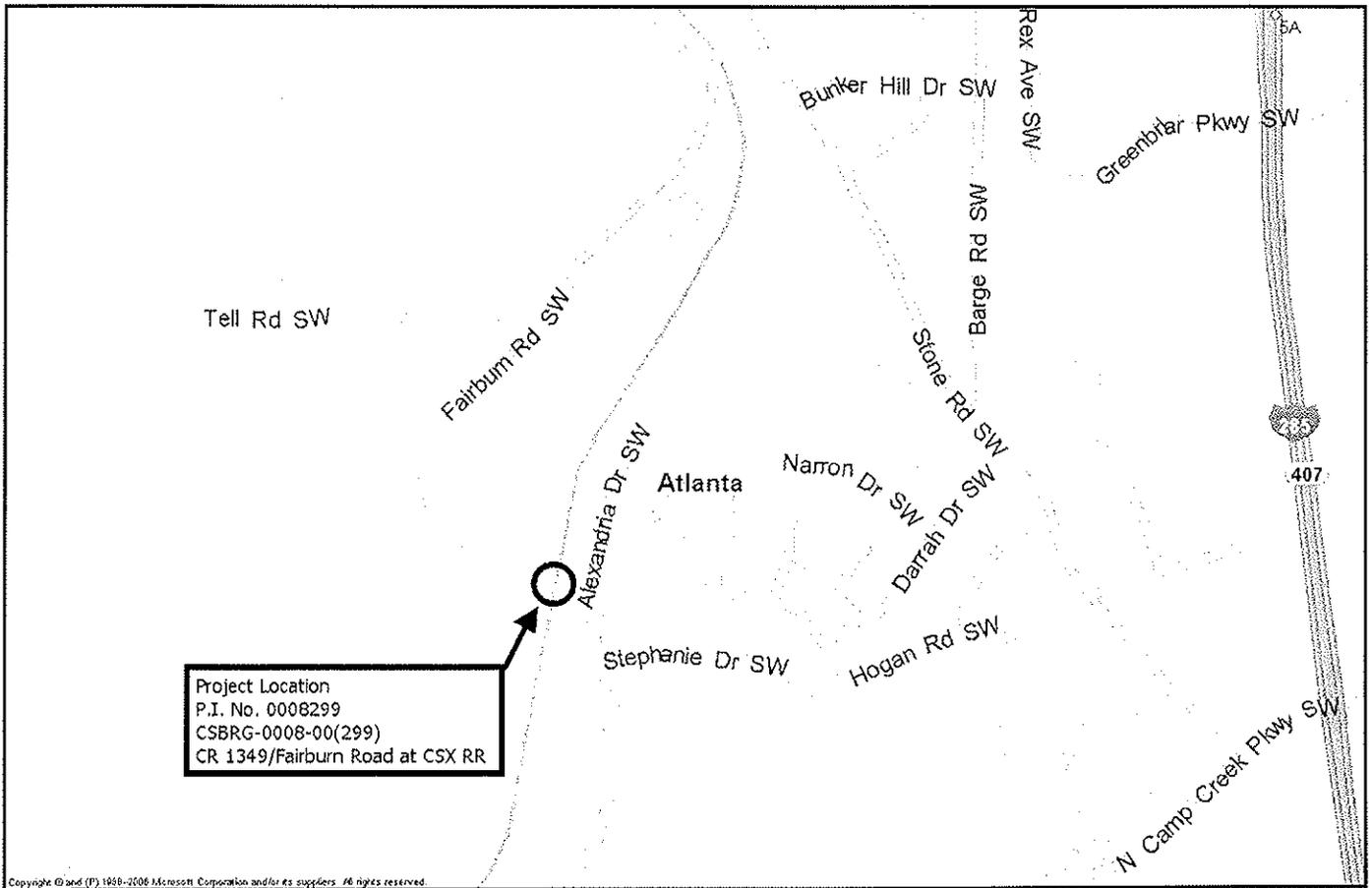
DATE _____

State Transportation Financial Management Administrator

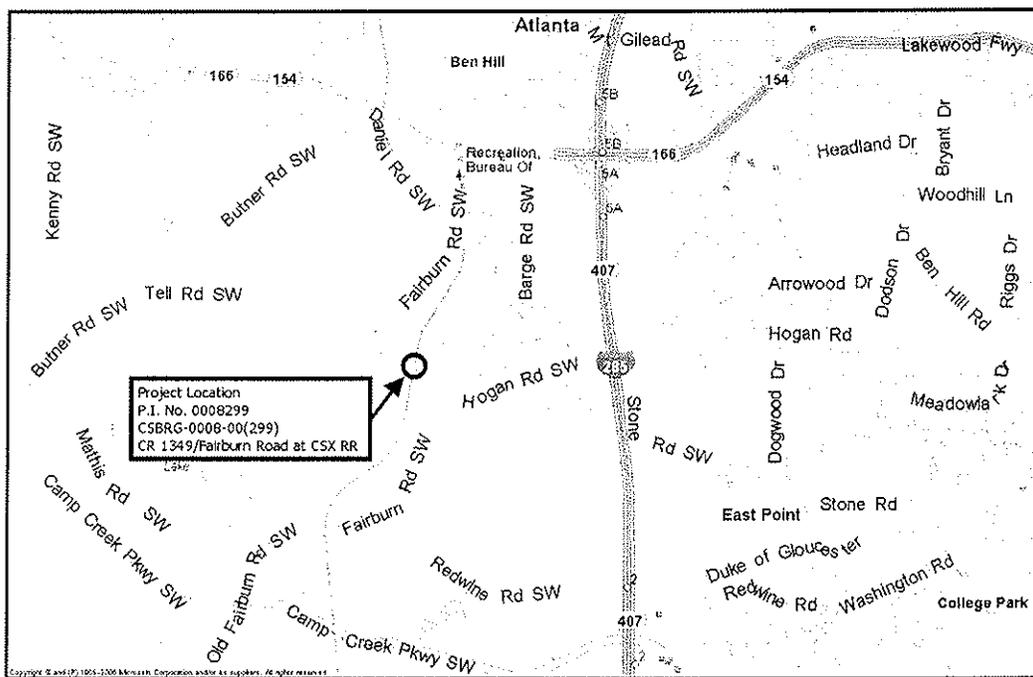
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 1/9/10

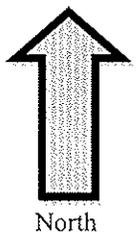
W. S. Alexander
State Transportation Planning Administrator



Project Location



Vicinity Map



North

Background

Project CSBRG-0008-00 (299), consists of the replacement of the bridge on CR 1349/Fairburn Road at CSX RR. CR 1349/Fairburn Road is a two lane facility that serves north south traffic west of I-285 in the City of Atlanta.

The Department's policy for bridge replacement, Policy # 2405-1, states that if a bridge receives a sufficiency rating less than 50 that the bridge is eligible for replacement. The bridge on CR 1349/Fairburn Road at CSX RR has a sufficiency rating of 24.93 which would classify the bridge as structurally deficient. Based on current GDOT policy this bridge should be replaced.

Facility Overview and Operational Characteristics

The existing bridge was constructed in 1937. It is along a segment of roadway with a posted speed limit of 35mph. The existing rural facility consists of two 12 ft travel lanes with variable width grass shoulders. Annual daily traffic along this bridge in 2007 was 1,850 vehicles with 15% truck traffic. The 2027 traffic is projected at 2,775 AADT.

There is an overall deterioration of all timber on the substructure due to age, traffic and weather. Several piles have loose hulls, knots and rotten places throughout. The deck has scattered rotten deck boards throughout. The asphalt is breaking up and allowing water to get on deck boards. The asphalt is broken up in several places. Due to the condition of the bridge, there is currently a detour route in place for large trucks and buses over 4 tons.

Another characteristic of the bridge is its designation as a school bus route. It is not a designated bike route.

Logical Termini

The proposed bridge project will tie into the existing roadway. There are no other projects in the vicinity. Thus, the bridge project is a standalone project with independent utility and logical termini.

The proposed project length is approximately 2000 feet (0.4 miles), beginning at M.P. 8.72 and extending to M.P. 9.12.

Need and Purpose

Replacing the bridge on CR 1349/Fairburn Road at CSX RR will bring it up to current AASHTO geometric design standards.

Description of the proposed project

The proposed bridge will provide two 12 ft travel lanes, 2 ft gutters and 5.5 ft sidewalks. The roadway will be improved to tie into the new bridge and satisfy guardrail warrants. To minimize impacts to the area, the bridge will be closed to through traffic during construction.

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

The referenced project is contained within the RTP/TIP/STIP. The proposed project consists of an operational and safety improvement and does not add capacity.

PDP Classification: Major _____ Minor X

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

Functional Classification: Urban Minor Arterial

U. S. Route Number(s): N/A **State Route Number(s):** N/A
County Route Number(s): 1349

Traffic (AADT):

Base Year: (2011) 2,000 Design Year: (2031): 2,900

Existing design features:

- Bridge typical Section: two 12 ft travel lanes and 1 ft gutter area on each side.
- Posted speed: 35 mph Minimum radius for curve: 371 ft
- Maximum super-elevation rate for curve: 4%
- Maximum grade: 8% (Fairburn Road)
- Width of right-of-way: 50-75 ft
- Major structures: Timber bridge
- Major interchanges or intersections along the project: CSX Railroad and N Camp Creek Pkwy SW.
- Existing length of roadway segment and the beginning mile logs for each county segment.
 - Length – 0.40 miles
 - Beginning mile point – 8.72
 - Ending mile point – 9.12

Proposed Design Features:

- Proposed bridge typical section: Two 12 ft travel lanes, 2 ft gutters and 5.5 ft sidewalks.
- Proposed design speed mainline: 35 mph
- Proposed maximum grade mainline: 8%
- Proposed maximum grade driveway:
 - Commercial – 11%
 - Residential – 15%
- Proposed maximum degree of curve: 15 (Equivalent Radius: 371 ft minimum)
- Proposed maximum degree allowable: 15 (Equivalent Radius: 371 ft minimum)
- Right-of-Way
 - Width: 50-75 ft

- Easements: Temporary (), Permanent (X), Utility (), Other ().
- Type of access control: Full (), Partial (), By Permit (X), Other ().
- Number of parcels: 2 Number of displacements:
 - Business: _____ 0
 - Residences: _____ 0
 - Mobile homes: _____ 0
 - Other: _____ 0

- Structures: Reinforced Concrete Bridge.
- Major intersections and interchanges: N Camp Creek Pkwy SW.
- Traffic control during construction: The bridge will be closed to thru traffic. The existing detour route will be kept in place.
- 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: No sidewalk behind the curb and substandard sag curve
- Environmental concerns: None.
- 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:
 - Georgia Power Distribution
 - City of Atlanta, Water
 - City of Atlanta, Sewer
 - Atlanta Gas Light Company
 - Cable – Comcast of Georgia, Inc and AT&T
 - Fiber Optics – AT&T formerly Bellsouth

VE Study required: Yes () No (X)

Project responsibilities:

- o Design, GDOT
- o Right of Way Acquisition, ~~GDOT~~ CITY OF ATLANTA
- o Relocation of Utilities, City of Atlanta/GDOT
- o Letting to contract, GDOT
- o Supervision of construction, GDOT
- o Providing material pits, Contractor
- o Providing detours, GDOT

EKP
4/20/10

Coordination

- Concept meeting date. *Held November 10, 2009*
- P. A. R. meetings, dates and results. None required.
- Public involvement. PIOH/Detour Meeting to be held.
- Local government comments. *None to date*
- Other projects in the area. *None to date*
- Railroads – CSX Railroad.
- Other coordination to date. Meetings held between GDOT, the City of Atlanta and CSX
- VE Study required? () Yes (X) No

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 6 Months.
(Schedule was coordinated with Environmental Services)
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 1 Months.
- Time to complete the Section 404 Permit: N/A Months.
- Time to complete final construction plans: 8 Months.
- Time to complete to purchase of right of way: 12 Months.

Other alternates considered:

- Alternate 1 - No Build. This alternative was dismissed due to the bridge low sufficiency rating of 24.93 which would classify it as structurally deficient.
- Alternate 2 – Replace the bridge and tie into the existing roadway without any additional roadway work. This alternative includes two 12 ft travel lanes with rural shoulders. The alternative was dismissed due to the urban aspects of CR 1349/Fairburn Road, requiring urban characteristics.

Comments:

None

Attachments:

1. Cost Estimates:
 - a. Construction,
 - b. Right of Way,
 - c. Utilities, and
 - d. Fuel Index Adjustments

Project Concept Report Page 7
Project Number: CSBRG-0008-00(299)
P. I. Number: 0008299
County: FULTON

2. Typical sections,
3. Accident Summary Table,
4. Bridge inventory
5. Minutes of Concept Team Meeting
6. Location and Design Notice

Concur: 
Director of Engineering

Approve:  Date: 3/29/10
Chief Engineer

SCORING RESULTS AS PER TOPPS 2440-2

Project Number: CSBRG-0008-00(299)		County: FULTON		PI No.: 0008299	
Report Date:		Concept By: DOT Office: GDOT D7 DESIGN			
<input type="checkbox"/> CONCEPT		Consultant: IN-HOUSE DESIGN/ NO CONSULTANT			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major	<input checked="" type="checkbox"/> Urban	<input type="checkbox"/> ATMS	
		<input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Rural	<input checked="" type="checkbox"/> Bridge	
				<input type="checkbox"/> Building	
				<input type="checkbox"/> Interchange	
				<input type="checkbox"/> Intersection	
				<input type="checkbox"/> Interstate	
				<input type="checkbox"/> New Location	
				<input type="checkbox"/> Widening & Reconstruction	
				<input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation					
Judgment					
Environmental					
Right of Way					
Utility					
Constructability					
Schedule					

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. BRG00-0008-00(299) , Fulton County OFFICE Program Delivery
CR 1349/Fairburn at CSX RR DATE 12/10/2009

P.I. No. 0008299

FROM Bobby Hilliard, PE, State Program Delivery Engineer

TO Ronald E. Wishon, Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Ernay Robinson

MNGT LET DATE N/A

MNGT R/W DATE N/A

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ 3,619,245.10

DATE N/A

RIGHT OF WAY \$ \$987,521.00

DATE N/A

UTILITIES \$ 348,147.45

DATE N/A

REVISED COST ESTIMATES

CONSTRUCTION* \$ 1,814,403.44

RIGHT OF WAY \$ 105,000.00

UTILITIES** \$ 185,900.00

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

** Costs contain 0 % contingency.

REASON FOR COST INCREASE

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$ <u>1,814,403.44</u>	(Base Estimate)
Engineering and Inspection:	\$ <u>72,576.14</u>	(Base Estimate x <u>4</u> %)
Construction Contingency:	\$ <u>90,720.17</u>	(Base Estimate x <u>5</u> %)
		(The Construction Contingency is based on the Project Improvement Type in TPro.)
Total Fuel Adjustment	\$ <u>3,848.82</u>	(From attached worksheet)
Total Liquid AC Adjustment	\$ <u>0</u>	(From attached worksheet)
Construction Total:	\$ <u>1,981,548.57</u>	
Utility Cost Estimate:	\$ <u>143,000.00</u>	
Utility Contingency:	\$ <u>42,900.00</u>	<u>30</u> %
Utility Total:	\$ <u>185,900.00</u>	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Cost
CSX Transportation, Inc.	\$185,900.00

Attachments

c: Genetha Rice-Singleton, State Program Control Administrator

Estimate Report for file "0008299"

Section Grading Complete					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
210-0100	1	LS	250000.0	GRADING COMPLETE - CSBRG-0008-00(299)	250000.0
Section Sub Total:					\$250,000.00

Section Traffic Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	100000.0	TRAFFIC CONTROL - CSBRG-0008-00(299)	100000.0
Section Sub Total:					\$100,000.00

Section Drainage and Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
402-3130	85	TN	59.84	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	5086.40
413-1000	360	GL	1.7	BITUM TACK COAT	612.0
432-0206	1030	SY	1.21	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	1246.3
433-1000	261	SY	130.67	REINF CONC APPROACH SLAB	34104.86
441-5002	670	LF	11.94	CONCRETE HEADER CURB, 6 IN, TP 2	7999.79
641-1200	215	LF	14.95	GUARDRAIL, TP W	3214.25
641-5001	2	EA	656.05	GUARDRAIL ANCHORAGE, TP 1	1312.1
641-5012	2	EA	1789.57	GUARDRAIL ANCHORAGE, TP 12	3579.14
Section Sub Total:					\$57,154.86

Section Signing and Marking					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	6	SF	13.2	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	79.19
636-2070	4	LF	7.04	GALV STEEL POSTS, TP 7	28.16
653-1501	500	LF	0.31	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	155.0
653-1502	500	LF	0.32	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	160.0
654-1001	20	EA	2.95	RAISED PVMT MARKERS TP 1	59.0
Section Sub Total:					\$481.36

Section Bridge					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
999-9999	1	Lump Sum	1000000.0	BRIDGE LUMP SUM	1000000.0
Section Sub Total:					\$1,000,000.00

Section Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1	AC	261.44	TEMPORARY GRASSING	261.44
163-0240	5	TN	146.17	MULCH	730.84
165-0030	730	LF	0.65	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	474.5
171-0030	1460	LF	2.83	TEMPORARY SILT FENCE, TYPE C	4131.8
700-6910	1	AC	650.96	PERMANENT GRASSING	650.96
700-7000	1	TN	54.78	AGRICULTURAL LIME	54.78
700-7010	1	GL	18.93	LIQUID LIME	18.93
700-8000	1	TN	404.69	FERTILIZER MIXED GRADE	404.69
700-8100	17	LB	2.31	FERTILIZER NITROGEN CONTENT	39.27
Section Sub Total:					\$6,767.22

Section Miscellaneous Items					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
109-0100	1	Lump	174.06	PRICE ADJUSTMENT - UNLEADED FUEL	174.06

Estimate Report for file "0008299"

Section Grading Complete					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
210-0100	1	LS	250000.0	GRADING COMPLETE - CSBRG-0008-00(299)	250000.0
Section Sub Total:					\$250,000.00

Section Traffic Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	500000.0	TRAFFIC CONTROL - CSBRG-0008-00(299)	500000.0
Section Sub Total:					\$500,000.00

Section Drainage and Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
402-3130	85	TN	59.84	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	5086.40
413-1000	360	GL	1.7	BITUM TACK COAT	612.0
432-0206	1030	SY	1.21	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	1246.3
433-1000	261	SY	130.67	REINF CONC APPROACH SLAB	34104.86
441-5002	670	LF	11.94	CONCRETE HEADER CURB, 6 IN, TP 2	7999.79
641-1200	215	LF	14.95	GUARDRAIL, TP W	3214.25
641-5001	2	EA	656.05	GUARDRAIL ANCHORAGE, TP 1	1312.1
641-5012	2	EA	1789.57	GUARDRAIL ANCHORAGE, TP 12	3579.14
Section Sub Total:					\$57,154.86

Section Bridge					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
999-9999	1	Lump Sum	1000000.0	BRIDGE LUMP SUM	1000000.0
Section Sub Total:					\$1,000,000.00

Section Signing and Marking					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	6	SF	13.2	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	79.19
636-2070	4	LF	7.04	GALV STEEL POSTS, TP 7	28.16
653-1501	500	LF	0.31	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	155.0
653-1502	500	LF	0.32	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	160.0
654-1001	20	EA	2.95	RAISED PVMT MARKERS TP 1	59.0
Section Sub Total:					\$481.36

Section Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1	AC	261.44	TEMPORARY GRASSING	261.44
163-0240	5	TN	146.17	MULCH	730.84
165-0030	730	LF	0.65	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	474.5
171-0030	1460	LF	2.83	TEMPORARY SILT FENCE, TYPE C	4131.8
700-6910	1	AC	650.96	PERMANENT GRASSING	650.96
700-7000	1	TN	54.78	AGRICULTURAL LIME	54.78
700-7010	1	GL	18.93	LIQUID LIME	18.93
700-8000	1	TN	404.69	FERTILIZER MIXED GRADE	404.69
700-8100	17	LB	2.31	FERTILIZER NITROGEN CONTENT	39.27
Section Sub Total:					\$6,767.22

Total Estimated Cost: \$1,814,403.44**Subtotal Construction Cost \$1,814,403.44**

Preliminary Right of Way Cost Estimate



Phil Copeland
Right of Way Administrator
By: LaShone Alexander

Date: November 2, 2009
Project: CSBRG-0008-00(299) Fulton County
Existing/Required R/W: Varies/Varies
Project Termini: CR 1349/Fairburn Road at CSX RR
Project Description: CR 1349/Fairburn Road at CSX RR

P.I. Number: 0008299
No. Parcels: 2

Land:				
	Residential/Commercial R/W: 0.074 acres @ \$ 300,000/acre	\$		22,200
Improvements :	misc. site improvements			20,000
Relocation:	Commercial (0)			
	Residential (0)			0
Damage :	Cost to Cure (0)	\$	0	
	Uneconomic Remnant (0)		0	
	Proximity (0)		0	
	Net Cost	\$		<u>42,200</u>
	Net Cost	\$	42,200	
	Scheduling Contingency 55 %		23,210	
	Adm/Court Cost 60 %		<u>39,246</u>	
		\$		104,656

Total Cost \$105,000

Note: The Market Appreciation (40%) is not included in the updated Preliminary Cost Estimate.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0008-00(299), Fulton County
P.I. No. 0008299 **OFFICE:** State Utilities Office

FROM *RLC*
Jeff Baker, State Utilities Engineer **DATE:** October 20, 2009

TO Bobby Hilliard, State Program Delivery Engineer
ATTN: Ernay Robinson

SUBJECT PRELIMINARY RAILROAD COST FOR SURFACE WORK (CONCEPT ESTIMATE)

A review of railroads located within the project limits on the above referenced project has been conducted based on the proposed concept report provided. Listed below is a breakdown of the estimated railroad costs:

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE
CSX Transportation, Inc.	\$0.00	\$143,000.00
Totals	\$0.00	\$143,000.00
30% Utilities Contingency:	\$0.00	\$42,900.00
Total Reimbursement Cost:	\$0.00	\$185,900.00

Total railroad surface work reimbursable cost for the above project is estimated to be:
\$185,900.00.

Please note that this amount does not include other reimbursable utility costs that may be associated with this project. Please keep the railroad costs separate from other utilities in your designer's cost estimate.

If you have any questions, please contact Richard Crowley, (404)631-1372, rcrowley@dot.ga.gov or Grant Waldrop, (404)631-1370, gwaldrop@dot.ga.gov.

JB:RLC:wgw

cc: Lee Upkins, State Utilities Preconstruction Engineer
Angela Whitworth, State Financial Management Administrator
Jonathan Walker, District 7 Utilities Engineer

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: CSBRG-0008-00(299), Fulton County
PI No. 0008299
Bridge Replacement – CR 1349/Fairburn Rd
@ CSX Railroad

OFFICE: District 7/Chamblee

DATE: October 13, 2009

FROM: Jonathan Walker, District Utilities Engineer

TO: Michael Lobdell, P.E., District Preconstruction Engineer
Attn: Jania Braswell

SUBJECT PRELIMINARY UTILITY COST (ESTIMATE)

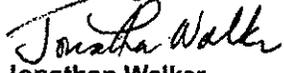
As requested by your office, we are furnishing you with a Preliminary Utility Cost estimates for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE
Atlanta Gas Light Company	\$50,000.00	\$0
AT&T Formerly Bellsouth	\$25,000.00	\$0
Comcast Of Georgia, Inc	\$ 5,100.00	\$0
Georgia Power Distribution	\$31,000.00	\$0
City of Atlanta Water	\$40,000.00	\$0
Fulton County Public Work Sewer	\$10,100.00	\$0
Totals	\$161,200.00	\$0
Total Reimbursement Cost:		\$0
Total reimbursable cost for the above project is \$0.		

If you have any questions, please contact Yulonda Pride-Foster at 770-986-1117.

Sincerely,

Rachel Brown
District Engineer


By: Jonathan Walker
District Utilities Engineer

RB/JW/YPF

C: Jeff Baker, P.E., State Utilities Engineer
Angela Whitworth, Office of Financial Management
Mike Hill, Area 3 Engineer

Special Provision, Section 109-Measurement and Payment
FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

ENTER FPL DIESEL	2.707
ENTER FPM DIESEL	6.091

ENTER FPL UNLEADED	2.508
ENTER FPM UNLEADED	5.643

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

INCREASE ADJUSTMENT
125.00%

INCREASE ADJUSTMENT
125.00%

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)		0.29		0.15		
Excavations paid as specified by Sections 206 (CUBIC YARD)		0.29		0.15		
GAB paid as specified by the ton under Section 310 (TON)		0.29		0.24		
Hot Mix Asphalt paid as specified by the ton under Sections 400 (TON)		2.90		0.71		
Hot Mix Asphalt paid as specified by the ton under Sections 402 (TON)	85.000	2.90	246.50	0.71	60.35	
PCC Pavement paid as specified by the square yard under Section 430 (SY)		0.25		0.20		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
Concrete Barrier (LF) Section 500				8.00		1.50		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Stru Steel Plan Quantity (LB) Section 501				8.00		1.50		
Stru Steel Plan Quantity (LB) Section 501				8.00		1.50		
PSC Beams____ (LF) Section 507				8.00		1.50		
PSC Beams____ (LF) Section 507				8.00		1.50		
PSC Beams____ (LF) Section 507				8.00		1.50		
Stru Reinf Plan Quantity(LB) Section 511				8.00		1.50		
Stru Reinf Plan Quantity(LB) Section 511				8.00		1.50		
Bar Reinf Steel (LB) Section 511				8.00		1.50		
Piling____inch (LF) Section 520				8.00		1.50		
Piling____inch (LF) Section 520				8.00		1.50		
Piling____inch (LF) Section 520				8.00		1.50		
Piling____inch (LF) Section 520				8.00		1.50		
Piling____inch (LF) Section 520				8.00		1.50		
Piling____inch (LF) Section 520				8.00		1.50		
Drilled Caisson,____ (LF) Section 524				8.00		1.50		
Drilled Caisson,____ (LF) Section 524				8.00		1.50		
Drilled Caisson,____ (LF) Section 524				8.00		1.50		
Pile Encasement,____(LF) Section 547				8.00		1.50		
Pile Encasement,____(LF) Section 547				8.00		1.50		

SUM QF DIESEL=	246.50	SUM QF UNLEADED=	60.35
----------------	--------	------------------	-------

DIESEL PRICE ADJUSTMENT(\$)	\$767.37
UNLEADED PRICE ADJUSTMENT(\$)	\$174.06

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)

APPLICABLE TO CONTRACTS CONTAINING THE 413 SPEC. SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

ENTER APL

ENTER APM

Use this side for Asphalt Emulsion Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)
TMT = <input style="width: 150px;" type="text"/>		
REMARKS:		

Use this side for Asphalt Cement Only		
L.I.N.	TYPE	TACK (GALLONS)
TMT = <input style="width: 150px;" type="text"/>		
REMARKS:		

ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

DIESEL PRICE ADJUSTMENT(\$) \$767.37

UNLEADED PRICE ADJUSTMENT(\$) \$174.06

ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX) \$775.59

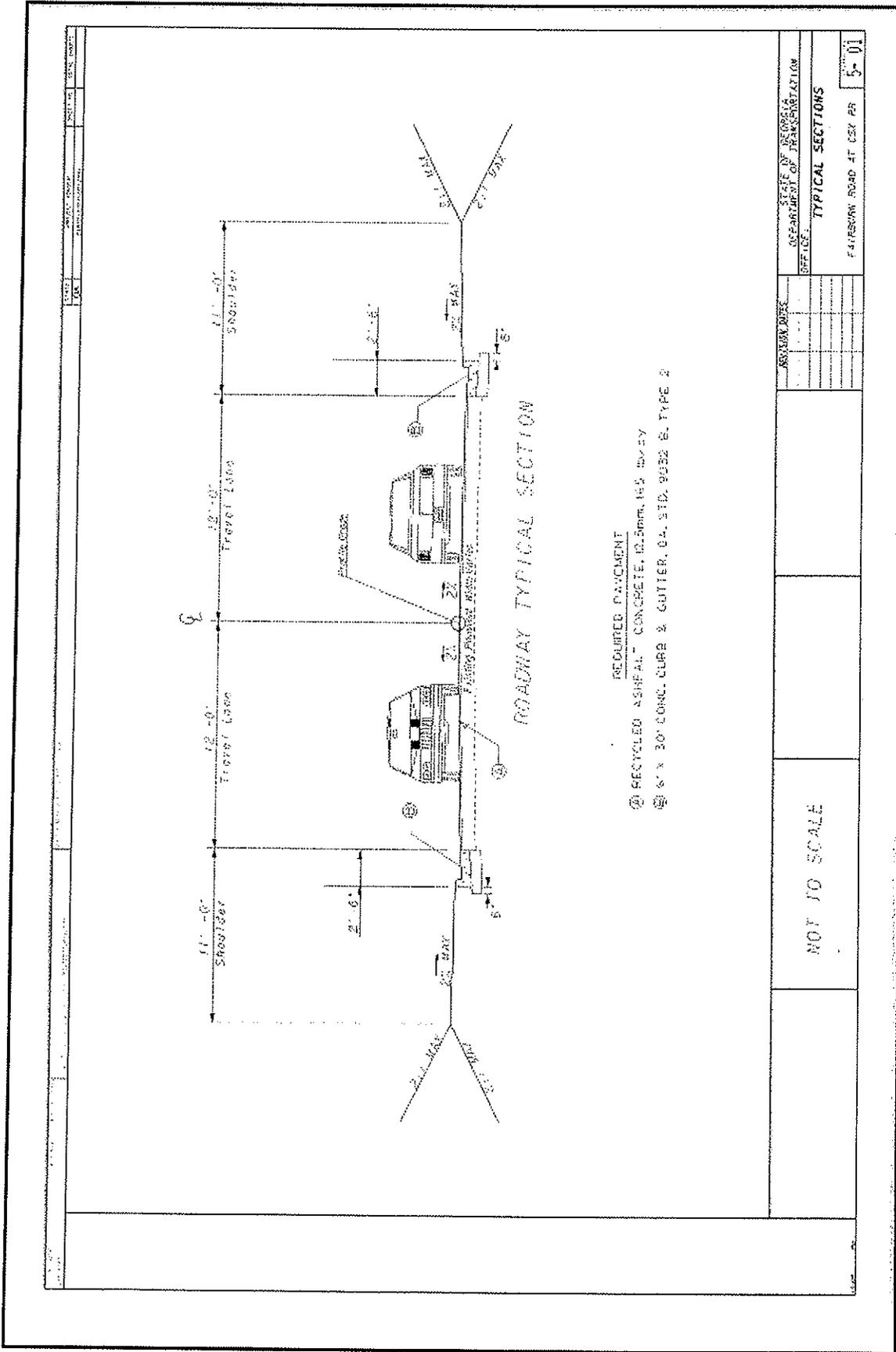
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX \$2,131.80

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)

REMARKS:	
----------	--

TOTAL ADJUSTMENTS	\$3,848.82
--------------------------	-------------------

Project Concept Report Page 9
 Project Number: CSBRG-0008-00(299)
 P. I. Number: 0008299
 County: FULTON



- REQUIRED PAVEMENT
- ① RECYCLED ASPHALT CONCRETE (RAC) 150 MM 150 MM 150 MM
 - ② 6" x 30" CONC. CURB & GUTTER, C.A. STD. 9032 B, TYPE 2

NOT TO SCALE	ASSEMBLY NO.	OFFICE: TYPICAL SECTIONS	
		DATE: 5-01	BY: 5-01

FULTON COUNTY, CR 1349 milelogs 8.72-9.12

ACCIDENT RATE CALCULATION for years 2005,2006,2007,2008

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2005	Fulton	2	134900	8.72	9.12	2,430	0.40	972

Total Vehicle Miles: 972	Total Accidents: 4	Accident Rate: 1,127
Average ADT: 2,430	Total Injuries: 1	Injury Rate: 282
Length in Miles: 0.40	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2006	Fulton	2	134900	8.72	9.12	1,850	0.40	740

Total Vehicle Miles: 740	Total Accidents: 4	Accident Rate: 1,481
Average ADT: 1,850	Total Injuries: 2	Injury Rate: 740
Length in Miles: 0.40	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2007	Fulton	2	134900	8.72	9.12	1,850	0.40	740

Total Vehicle Miles: 740	Total Accidents: 2	Accident Rate: 740
Average ADT: 1,850	Total Injuries: 0	Injury Rate: 0
Length in Miles: 0.40	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2008	Fulton	2	134900	8.72	9.12	1,850	0.40	740

Total Vehicle Miles: 740	Total Accidents: 2	Accident Rate: 740
Average ADT: 1,850	Total Injuries: 1	Injury Rate: 370
Length in Miles: 0.40	Total Fatalities: 0	Fatality Rate: 0.00

NOTE: Rates are per 100 Million Vehicle Miles



Bridge Inventory Data Listing

Processed Date: 10/14/2009
Parameters: Bridge Serial Num

Structure ID: 121-0341-0		Fulton		SUFF. RATING: 24.93	
Location & Geography				Signs & Attachments	
Structure ID:	121-0341-0	*104 Highway System:	0	215 Expansion Joint Type:	
200 Bridge Information:	96	*26 Functional Classification:	16	242 Deck Drains:	
*6A Feature Int:	CSX RAILROAD	*204 Federal Route Type:	M No: 09054	243 Parapet Location:	
*6B Critical Bridge:	0	105 Federal Lands Highway:	0	Height:	
*7A Route No Carried:	CR01349	*110 Truck Route:	0	Width:	
*7B Facility Carried:	FAIRBURN ROAD	2096 School Bus Route:	1	238 Curb Height:	
9 Location:	IN SOUTHWEST ATLANTA	217 Benchmark Elevation:	0000.00	Curb Material:	
2 Dist/District:	7	218 Datum:	0	239 Handrail:	
207 Year Photo:	2009	*19 Bypass Length:	01	*240 Medium Barrier Rail:	
*91 Inspection Frequency:	06 Date: 05/11/2009	*20 Toll:	3	241 Bridge Median Height:	
92A Fract Crk Insp Freq:	0 Date: 02/01/1901	*21 Maintenance:	27	* Bridge Median Width:	
92B Underwater Insp Freq:	0 Date: 02/01/1901	*22 Owner:	27	230 Guardrail Loc. Dir. Rear:	
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	*31 Design Load:	0	Fwd:	
*4 Place Code:	04000	37 Historical Significance:	5	Oppo. Dir. Rear:	
*5 Inventory Route(O/U):	1	205 Congressional District:	05	Oppo. Fwd:	
Type:	5	27 Year Constructed:	1937	244 Approach Slab:	
Designation:	1	106 Year Reconstructed:	0000	224 Retaining Wall:	
Number:	09054	33 Bridge Medium:	0	233 Posted Speed Limit:	
Direction:	0	34 Skew:	00	235 Warning Sign:	
*16 Latitude:	33 40.5347	35 Structure Flared:	0	234 Delineator:	
*17 Longitude:	84 -80.9337	38 Navigation Control:	N	235 Hazard Boards:	
98 Border Bridge:	000%Shared	213 Special Steel Design:	0	237 Utilities Gas:	
99 ID Number:	0000000000000000	267 Type of Paint:	0	Water:	
*100 STRAIGHT:	0	*42 Type of Service On:	1	Electric:	
12 Base Highway Network:	1	Type of Service Under:	2	Telephones:	
13A L&S Inventory Route:	1212194000	214 Movable Bridge:	0	Sewer:	
13B Sub Inventory Route:	0	203 Type Bridge:	C	247 Lighting Street:	
101 parallel Structure:	N	259 Pile Encasement:	3	Navigation:	
*102 Direction of Traffic:	2	*43 Structure Type Main:	7 02	Aerial:	
*264 Road Inventory Mile Post:	008.92	45 No. Spans Main:	007	*248 County Continuity No.:	
*208 Inspection Area:	7	44 Structure Type Appr:	0 00		
Engineer's Initials:	SGX	46 No Spans Appr:	0000		
* Location ID No:	121-09054M-002.85N	228 Bridge Curve Horiz:	0 Vert: 0		
		111 pier Protection:	0		
		107 Deck Structure Type:	8		
		108 Wearing Structure Type:	6		
		Membrane Type:	0		
		Deck Protection:	0		

Processed Date: 10/14/2009

Bridge Inventory Data Listing

Parameters: Bridge Serial Num



Structure ID: 121-0341-0		001850 Year: 2007		1	
Program Name: UNKNOWN		0		1	
201 Project No:	BRG-0305-00(298)	Inventory Rating Method:	65	Inventory Rating Method:	1
202 Plans Available:	0600	Operating Rating Method:	63	Operating Rating Method:	1
249 Prop Proj No:	00062399	Inventory Type:	56	Inventory Type:	2
250 Approval Status:	02/01/1901	Operating Type:	64	Operating Type:	0
251 PI Number:	60000	Calculated Loads:	231	Calculated Loads:	0
252 Contract Date:	31 1	H-Modified:	00	H-Modified:	0
260 Seismic No:	5303	HS-Modified:	00	HS-Modified:	0
75 Type Work:	232	Type 3:	00	Type 3:	0
94 Bridge Impr Cost:	680	Type 3a:	00	Type 3a:	0
95 Roadway Imp. Cost:	001449	Timber:	00	Timber:	0
96 Total Imp Cost:	1990	Pier/Abut:	06	Pier/Abut:	0
76 Imp Length:	002775	261 H Inventory Rating:	00	261 H Inventory Rating:	0
97 Imp Year:	Year: 2027	262 H Operating Rating:	00	262 H Operating Rating:	0
114 Finest ADT:		67 Structural Evaluation:	0	67 Structural Evaluation:	0
Hydraulic Data:		58 Deck Condition:	1	58 Deck Condition:	1
215 Waterway Data:		59 Superstructure Condition:	3	59 Superstructure Condition:	3
High Water Elev:	0000.0	* 227 Collision Damage:	0	* 227 Collision Damage:	0
Flood Elev:	0000.0	60A Substructure Condition:	5	60A Substructure Condition:	5
Avg Streambed Elev:	0000.0	60B Scour Condition:	N	60B Scour Condition:	N
Drainage Area:	00000	60C Underwater Condition:	N	60C Underwater Condition:	N
Area of Opening:	000000	71 Waterway Adequacy:	N	71 Waterway Adequacy:	N
113 Scour Critical:	N	61 Channel Protection Cond.:	N	61 Channel Protection Cond.:	N
216 Water Depth:	00.0	88 Deck Geometry:	5	88 Deck Geometry:	5
222 Slope Protection:	0	69 UnderCl. Horiz/Vert:	4	69 UnderCl. Horiz/Vert:	4
221 Slope Protection:	0	72 Appr. Alignment:	4	72 Appr. Alignment:	4
219 Feeder System:	0	82 Culvert:	N	82 Culvert:	N
220 Dolphin:	0	Previous Data:		Previous Data:	
223 Current Cover:	000	70 Bridge Posting Required:	0	70 Bridge Posting Required:	0
Type:	0	41 Struct Open, Posted, CL:	K	41 Struct Open, Posted, CL:	K
No. Bents:	0	* 103 Temporary Structure:	0	* 103 Temporary Structure:	0
* Width:	0.00	232 Posted Loads:	00	232 Posted Loads:	00
* Length:	0	H-Modified:	00	H-Modified:	00
265 U/W Insp. Area:	0	HS-Modified:	00	HS-Modified:	00
Location ID No:	121-08054M-002.85N	Type 3:	00	Type 3:	00
		Type 3a:	00	Type 3a:	00
		Timber:	00	Timber:	00
		Pier/Abut:	00	Pier/Abut:	00
		253 Notification Date:	02/01/1901	253 Notification Date:	02/01/1901
		258 Prod Notify Date:	2/1/1901	258 Prod Notify Date:	2/1/1901

Meeting Minutes

To: Files

From: Jania Braswell

Date: November 10, 2009

RE: CSBRG-0008-00(299), Fulton County, P.I. 0008299– Concept Team Meeting for the Proposed Bridge Replacement Project located at CR 1349/Fairburn Road at CSX Railroad.

A Concept Team Meeting was held on November 10, 2009 at the District 7 Office in Chamblee. See the attached sign-in sheet for a list of attendees. A brief presentation of the project was provided followed by a discussion about the typical sections and a page-by-page review of the Concept Report. The following comments were discussed:

- Project Layout – Show the alignment for the roadway portion of the project. Show the railroad right of way of 100 ft. Scott Lee proposed to increase the project limits to use the island at Fairburn Road during construction. Merishia Robinson suggested the use of parcel number two for construction easement. Ernay Robinson mentioned that CSX will not require room for a second track. Richard Crowley noted the required 23 ft clearance from the top of the rail to the bottom of the bridge. Merishia mentioned the substandard sag curve around station 7+00 with some drainage issues that won't be touched because the scope of this project is only to replace the bridge without any roadway work.
- Roadway Typical Section – Scott Lee mentioned the need of a two foot gutter pan. Kaycee Mertz made clear that this is not a bike route according to the need and purpose but she will double check.
- Bridge Typical Section – Bill DuVall pointed the need for a 5'-6" sidewalk on the bridge for safety and also to match the curb section at the roadway approaching the bridge. Scott Lee suggested the addition of the sidewalk but reduce the lane width to 11 ft. Scott Lee also recommended that if the bridge is built without sidewalk, make sure that there is enough room for future pedestrian improvements and also a high enough barrier wall. Scott Lee concluded that if we are not accommodating for bike lanes, we should have sidewalk at the bridge and approaches. Merishia again made emphasis to the scope of strictly replacing the bridge. Bill DuVall thinks the sidewalk only at bridge should be enough, especially because it will provide protection to the parapet and also the lack of sidewalk on the bridge could lead people to hit the roadway curb as they leave the bridge. Preconstruction and Bridge Design will work together to come up with a safer and efficient bridge typical section.
- Page 2, Location Sketch – Add a North Arrow

- Page 3, Description of the Project – “The proposed bridge will provide two 12 ft travel lanes and two six foot shoulders with sidewalk. To minimize impacts to the area, CR 1379/Fairburn Road at CSX railroad will be closed to through traffic during construction.”
- Page 4, Proposed Design Features – “Proposed typical section: CR 1349/Fairburn Road – two 12 ft travel lanes with 8.5 ft shoulders for guardrail.”
- Page 5:
 - Proposed Design Features – Change the number of right of way parcels to two.
 - Structures – Delete the phrase “If CSX Railroad requests a 2nd rail, retaining walls will be required.”
 - Traffic Control During Construction – Describe what kind of detour is in place, trucks over four tons and school buses.
 - Design Variances – Add design variance for no sidewalk behind curb and substandard sag curve.
 - Environmental Concerns – Delete “the existing bridge is potentially historic” and check time savings procedure as appropriate.
 - Utility Involvements – City of Atlanta should be the responsible party for sewer.
- Page 6:
 - Coordination – After public involvement, add PIOH/Detour Meeting TBD.
 - Railroads – Delete the phrase “The proposed design will accommodate a second track.”
 - Scheduling – Responsible Parties’ Estimates – Time to complete right of way plans should be three months according to Merishia. Time to complete final bridge plans should be eight months according to Bill DuVall. Time to complete the purchase of right of way should be 12 months according to Sherry Phillips. Richard Crowley mentioned that he needs 18 months from PFPR to FFPR and six months past the FFPR to get the Railroad Agreement.
 - Leslie Scherr, CSXT representative, thinks that CSX can review the plans within a month if the scope is not changed because with this current scope, GDOT is not encroaching into their 100 ft right of way. As far as CSX’s second track, he said we have nothing to do other than building our bridge at grade and following their guidance to which side of the track they would put a second track, if they do. The only concerns would be the pilings or the end bents; they need to be deep enough because if they excavate to fit a second track, they will not disturb the footings of our bridge. He finally said if our bridge is 130 ft long, he doesn’t need room for a second track because it is

already there. Bill DuVall is not certain about the final length of the bridge. Ernay Robinson suggested that we look at the current footprint and just match the existing 128 ft long bridge.

- Schedule. It was suggested by Nancy Smith that 12 to 18 months will be needed to complete the Bridge Foundation Investigation Report and the Wall Foundation Investigation Report.
- Shannon Rawlins from Comcast mentioned that Georgia Power will need room from parcels number one and two to set temporary poles. With this type of bridge, they usually need about 100 ft from the bridge because of their construction equipment, like cranes.
- Ernay Robinson emphasized that Gerald Ross wants this project delivered in FY 2011.
- Mac Cranford mentioned that he needs two months to schedule and hold a PIOH and Melanie Nable needs one month to respond.

MKR: JB

Georgia Department of Transportation
DISTRICT SEVEN PRECONSTRUCTION

MEETING/CONFERENCE RECORD OF ATTENDEES

Purpose: Concept Team Meeting – PI 0008299 – CR 1349/Fairburn Road at CSX Railroad

Location: District Seven – Conference Room 144/145

Date: November 10, 2009

Hour: 9:00 AM

Moderator: Ernay Robinson

<u>Name</u>	<u>Organization</u>	<u>Telephone</u>	<u>Email Address</u>
1. Merishia Robinson	GDOT	770-986-1114	mrobinson@dot.ga.gov
2. Jania Braswell	GDOT	770-986-1785	jabraswell@dot.ga.gov
3. Bryan Carter	GDOT	478 232 5466	brcarter@dot.ga.gov
4. Bill DuVal	GDOT	404 631 1883	bduval@dot.ga.gov
5. Jerri Russell	COA	404-589-2722	jrussell@atlantaga.gov
6. Melanie Nable	GDOT/CEL	404.631.1174	mnable@dot.ga.gov
7. Mac Cranford	GDOT	770-986-1260	mcranford@dot.ga.gov
8. SCOTT LEE	GDOT	770-986-1261	SLEE@DOT.GA.GOV
9. RICHARD CROWLEY	GDOT	404-631-1372	RCROWLEY@DOT.GA.GOV
10. SHERRY PHILLIPS	GDOT	(770) 986-1556	sphillips@dot.ga.gov
11. DWAYNE MADDOX	GDOT	(770) 986-1765	DWMADDOX@DOT.GA.GOV
12. MICHAEL	GDOT	404-559-6699	MICHELL@DOT.GA.GOV
13. Leslie Scherr	CSXT	904-366-3057	Leslie.Scherr@CSX.com
14. Nancy Smith	GDOT	404-363-7549	NSMITH@DOT.GA.GOV
15. Yulanda Priddy	GDOT	(770) 986-1117	ypriddy@dot.ga.gov
16. Shannon Rowlings	Comcast	7559-2461	shannon.Rowlings@Cable.Comcast.com
17. Kaycee Mertz	GDOT-Planning	404-631-8245	kmertz@dot.ga.gov
18.			

NOTICE OF LOCATION AND DESIGN APPROVAL

CSBRG-0008-00(299) FULTON COUNTY

P. I. NO. 0008299

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 this project.

The date of location approval is April 2, 2010

The project is located in Fulton County on Fairburn Road. The project is located in Land District 14F in Land Lots 4 and 34.

The purpose of this project is to replace the existing bridge structure located at CR 1379/Fairburn Road over CSX railroad bringing it up to current AASHTO and departmental design standards, thus improving the operational deficiencies as well as increasing the overall safety of the roadway. The length of this project is approximately 0.4 miles beginning at M.P. 8.72 and extending to M.P. 9.12 and is located in South Fulton County, Land District 14 F, Land Lots numbers 4 and 34.

The proposed bridge will provide two 12 ft travel lanes, 2 ft gutters and 5.5 ft sidewalks. The roadway will be improved to tie into the new bridge and satisfy guardrail warrants. To minimize impacts to the area, the bridge will be closed to thru traffic during construction.

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

Michael Hill, Area Three Engineer
Georgia Department of Transportation
4125 Roosevelt Highway
College Park, Georgia 30349
E-mail: michill@dot.ga.gov
Phone: (404) 559-6699

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

Ernay Robinson-Perry, Project Manager
Georgia Department of Transportation
4125 Roosevelt Highway
College Park, Georgia 30349
E-mail: erobinson@dot.ga.gov
Phone: (404) 559-6690

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