

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0012641

OFFICE Design Policy & Support

Gwinnett County
GDOT District 1 - Gainesville
SR 13 Bicycle & Pedestrian Enhancements

DATE 3/21/2016

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

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

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

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Scott Frederick, Area Engineer - D1, A1
Charles Robinson, Project Manager
BOARD MEMBER - 7th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTEROFFICE CORRESPONDENCE

LOCATION AND DESIGN REPORT

FILE *P.I. Number 0012641* OFFICE *Program Delivery*
Gwinnett County
SR 13 FROM CR 613/SIMPSON
CIR TO CR 9010/N BERKELEY DATE *2/8/2016*
LAKE RD

FROM *Albert V. Shelby, III, State Program Delivery Engineer* *Albert Shelby*

TO *Brent Story, P.E., State Design Policy Engineer*
Attn: Dave Peters

SUBJECT **Request for Location and Design Approval**

Description and Project Proposal: *The proposed 1.1 mile project adds pedestrian facilities in the form of a five foot porous concrete sidewalk to the west side of US 23/SR 13 (Buford Highway) from South Berkeley Lake Road/Simpson Circle to North Berkeley Lake Road. Approximately 5,700 linear feet of 8"x30" curb and gutter and 4,000 linear feet of storm sewer with 25 drainage structures will be installed alongside the proposed sidewalk on the west side of US 23/SR 13/Buford Hwy. The project also proposes to install approximately 1,100 linear feet of five foot porous concrete sidewalk along the east side of the roadway as it approaches the intersection with North Berkeley Lake Road. The project lies entirely within Gwinnett County, and partially within the City of Duluth.*

Concept Approval Date: 9/24/15

Concept Update: N/A

Environmental Document:

Document Type: Programmatic Categorical Exclusion

Approval Date:

2/16/2016 *(KAP)*

Temporary State Route Needed: No Yes Undetermined

Public Involvement: *No public involvement was required for this project*

Consistency with Approved Planning: *The design description as presented herein and submitted for approval is consistent with the approved Concept Report.*

Recommendations: *The Office of Program Delivery recommends that the location and design for the project be approved and that the attached Notice be approved for advertising.*

Concur: Hial Patel
GDOT Director of Engineering

Approve: Meg Pirkle 3.16.16
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: March 21, 2016

Attachments:

- Sketch Map
- Construction Cost Estimate
- Notice of Location and Design Approval

PROJECT LOCATION MAP



PI NO. 0012641
GWINNETT COUNTY

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. OFFICE

PROJECT DESCRIPTION

SR 13 FROM CR 613/SIMPSON CIR TO CR 9010/N BERKELEY LAKE RD

DATE

From: *Albert Shelby*

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER *CR* MGMT LET DATE
 MGMT ROW DATE

<u>PROGRAMMED COSTS (TPro W/OUT INFLATION)</u>	<u>LAST ESTIMATE UPDATE</u>
CONSTRUCTION \$ <input type="text" value="1,150,000.00"/>	DATE <input type="text" value="2/1/2013"/>
RIGHT OF WAY \$ <input type="text" value="350,000.00"/>	DATE <input type="text" value="5/16/2014"/>
UTILITIES \$ <input type="text" value="0.00"/>	DATE <input type="text"/>

REVISED COST ESTIMATES

CONSTRUCTION* \$ <input type="text" value="925,926.01"/>
RIGHT OF WAY \$ <input type="text" value="345,000.00"/>
UTILITIES \$ <input type="text" value="35,825.00"/>

*Cost Contains % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

The only cost increase was based on reimbursable utilities that were identified during the concept phase. There were no cost increases for Right of Way and Construction cost estimates. A 10% contingency was used due to the project being in concept phase and there is the potential for adjustments to proposed walls and drainage structures.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	799,921.00	Base Estimate From CES	
B. ENGINEERING AND INSPECTION (E & I):	\$	39,996.05	Base Estimate (A) x	5 %
C. CONTINGENCY:	\$	83,991.71	Base Estimate (A) + E & I (B) x	10 %
			<u>See % Table in "Risk Based Cost Estimation" Memo</u>	
D. TOTAL LIQUID AC ADJUSTMENT:	\$	2,017.25	Total From Liquid AC Spreadsheet	
E. CONSTRUCTION TOTAL:	\$	925,926.01	(A + B + C + D = E)	

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
AT&T	\$ 4,075.00
Gwinnett County Water	\$ 29,800.00
Gwinnett County Sewer	\$ 1,950.00
TOTAL	\$ 35,825.00

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS
Liquid AC Adjustment Spreadsheet

PROJ. NO. 0012641
 P.I. NO. 0012641
 DATE 6/23/2015

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jun-15	\$ 2.681
DIESEL		\$ 2.867
LIQUID AC		\$ 466.00

Link to Fuel and AC Index:
<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

PA=(((APM-APL)/APL))*TMT*APL

Asphalt

Price Adjustment (PA)				1957.2	\$	1,957.20
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	745.60		
Monthly Asphalt Cement Price month project let (APL)			\$	466.00		
Total Monthly Tonnage of asphalt cement (TMT)				7		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	80	5.0%	4
25 mm SP	60	5.0%	3
19 mm SP		5.0%	0
	140		7

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	60.05	\$	60.05
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	745.60		
Monthly Asphalt Cement Price month project let (APL)			\$	466.00		
Total Monthly Tonnage of asphalt cement (TMT)				0.214755046		

Bitum Tack

Gals	gals/ton	tons
50	232.8234	0.21475505

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)			\$	0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	745.60		
Monthly Asphalt Cement Price month project let (APL)			\$	466.00		
Total Monthly Tonnage of asphalt cement (TMT)				0		

Bitum Tack

	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf. Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0

TOTAL LIQUID AC ADJUSTMENT \$ 2,017.25

DETAILED COST ESTIMATE



Job: 0012641

JOB NUMBER 0012641

FED/STATE PROJECT NUMBER

SPEC YEAR: 13

**DESCRIPTION: US 23/SR 13 BUFORD HIGHWAY PEDESTRIAN MOBILITY IMPROVEMENTS
SR 13 FROM S. BERKELEY ROAD TO N. BERKELEY ROAD**

ITEMS FOR JOB 0012641

001 - ROADWAY ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$50,000.00000	TRAFFIC CONTROL - TRAFFIC CONTROL	\$50,000.00
0010	210-0100	1.000	LS	\$200,000.00000	GRADING COMPLETE - GRADING COMPLETE	\$200,000.00
0030	310-5060	2732.000	SY	\$13.17757	GR AGGR BS CRS 6IN INCL MATL	\$36,001.12
0034	310-5080	2800.000	SY	\$16.25536	GR AGGR BS CRS 8IN INCL MATL	\$45,515.01
0014	402-3103	80.000	TN	\$73.90287	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	\$5,912.23
0015	402-3121	60.000	TN	\$94.44768	RECYL AC 25MM SP,GP1/2,BM&HL	\$5,666.86
0019	413-1000	50.000	GL	\$8.21258	BITUM TACK COAT	\$410.63
0035	439-0300	2800.000	SY	\$50.00000	PERVIOUS CONCRETE PVMT, 6 IN THK	\$140,000.00
0025	441-0018	62.000	SY	\$49.33671	DRIVEWAY CONCRETE, 8 IN TK	\$3,058.88
0040	441-0108	165.000	SY	\$56.90911	CONC SIDEWALK, 8 IN	\$9,390.00
0042	441-0301	13.000	EA	\$1,661.26177	CONC SPILLWAY, TP 1	\$21,586.40
0044	441-0740	40.000	SY	\$39.26175	CONC MEDIAN, 4 IN	\$1,570.47
0043	441-4030	335.000	SY	\$44.97420	CONC VALLEY GUTTER, 8 IN	\$15,066.36
0049	441-5002	120.000	LF	\$16.45492	CONC HEADER CURB, 6, TP 2	\$1,974.59
0054	441-6222	3025.000	LF	\$13.99978	CONC CURB & GUTTER/ 8X30TP2	\$42,349.33
0039	457-1005	2800.000	SY	\$10.00000	GEOGRID REINFORCEMENT, TP A	\$28,000.00
0058	500-3201	98.000	CY	\$529.11273	CL B CONC, RET WALL	\$51,853.05
0059	500-9999	18.000	CY	\$186.85649	CL B CONC,BASE OR PVMT WIDEN	\$3,543.42
0113	515-2020	690.000	LF	\$22.51339	GALV STEEL PIPE HDRAIL,2,ROUD	\$15,534.24
0064	550-1180	200.000	LF	\$41.94703	STM DR PIPE 18,H 1-10	\$8,389.41
0069	550-4218	2.000	EA	\$616.56074	FLARED END SECT 18 IN, ST DR	\$1,233.12
0073	603-2018	200.000	SY	\$61.31000	STN DUMPED RIP RAP, TP 1, 18	\$12,262.00
0104	611-8050	1.000	EA	\$894.85260	ADJUST MANHOLE TO GRADE	\$894.85
0074	634-1200	6.000	EA	\$130.68963	RIGHT OF WAY MARKERS	\$784.14
0084	668-1100	21.000	EA	\$2,182.02738	CATCH BASIN, GP 1	\$45,822.57
0078	668-2100	2.000	EA	\$1,948.96617	DROP INLET, GP 1	\$3,897.93
0089	668-4300	3.000	EA	\$2,018.02567	STORM SEW MANHOLE, TP 1	\$6,048.08
SUBTOTAL FOR ROADWAY ITEMS:						\$766,774.69

002 - EROSION CONTROL - PERMANENT

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0119	700-7000	2.000	TN	\$152.18075	AGRICULTURAL LIME	\$304.36
0124	700-8000	1.000	TN	\$553.64847	FERTILIZER MIXED GRADE	\$553.65
0129	700-8100	50.000	LB	\$3.92011	FERTILIZER NITROGEN CONTENT	\$196.01
0114	700-9300	1020.000	SY	\$5.24203	SOD	\$5,346.87
SUBTOTAL FOR EROSION CONTROL - PERMANENT:						\$6,400.89

DETAILED COST ESTIMATE



Job: 0012641

003 - EROSION CONTROL - TEMPORARY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0134	163-0232	1.000	AC	\$353.23207	TEMPORARY GRASSING	\$353.23
0139	163-0240	20.000	TN	\$308.11139	MULCH	\$6,162.23
0144	163-0300	1.000	EA	\$1,387.97120	CONSTRUCTION EXIT	\$1,387.97
0154	163-0550	23.000	EA	\$122.39593	CONS & REM INLET SEDIMENT TRAP	\$2,815.11
0169	165-0030	1950.000	LF	\$0.72288	MAINT OF TEMP SILT FENCE, TP C	\$1,409.62
0149	165-0101	1.000	EA	\$638.96637	MAINT OF CONST EXIT	\$638.97
0159	165-0105	23.000	EA	\$33.88664	MAINT OF INLET SEDIMENT TRAP	\$778.39
0174	167-1000	2.000	EA	\$220.48128	WATER QUALITY MONITORING AND SAMPLING	\$440.96
0179	167-1500	6.000	MO	\$476.32507	WATER QUALITY INSPECTIONS	\$2,857.95
0164	171-0030	3900.000	LF	\$2.81974	TEMPORARY SILT FENCE, TYPE C	\$10,996.99
SUBTOTAL FOR EROSION CONTROL - TEMPORARY:						\$27,842.42

004 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0184	636-1020	80.000	SF	\$15.05597	HWY SGN,TP1MAT,REFL SH TP3	\$1,204.48
0189	636-1036	90.000	SF	\$1.00000	HWY SGN,TP1MAT,REFL SH TP 11	\$90.00
0183	653-0110	16.000	EA	\$65.85074	THERM PVMT MARK, ARROW, TP 1	\$1,053.61
0199	653-1704	175.000	LF	\$5.61412	THERM SOLID TRAF STRIPE,24,WH	\$982.47
0194	653-1804	1902.000	LF	\$2.50629	THERM SOLID TRAF STRIPE, 8,WH	\$4,766.96
0193	653-6004	180.000	SY	\$4.47489	THERM TRAF STRIPING, WHITE	\$805.48
SUBTOTAL FOR SIGNING AND MARKING:						\$8,903.00

TOTALS FOR JOB 0012641

ITEMS COST:	\$799,921.00
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$799,921.00
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$799,921.00

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

Date: 4/1/2015 Project: N/A
 Revised: County: Gwinnett
 PI: 0012641

Description: US 23/SR 13 Buford Highway Pedestrian Mobility Improvements
 Project Termini: South Berkeley Lake Road to North Berkeley Lake Road

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 11

Land and Improvements _____ \$102,535.85

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$0.00

Trade Fixtures \$2,000.00

Improvements \$5,000.00

Valuation Services _____ \$41,562.50

Legal Services _____ \$82,425.00

Relocation _____ \$22,000.00

Demolition _____ \$1,500.00

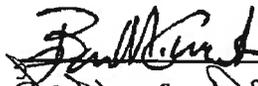
Administrative _____ \$94,500.00

TOTAL ESTIMATED COSTS _____ \$344,523.35

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$345,000.00

Preparation Credits	Hours	Signature
Benjamin M. Garland Jr.		

Prepared By:



CG# 5K 270850

4/1/2015

Approved By:

Daphne Alexander

CG#:286999 06/26/2015 (DATE)

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

Buford Highway, South Berkeley Lake Road to North Berkeley Lake Road

PI: 12641

June 24, 2015

Project # F-0803-03

Utility	Quantity	Unit	Cost per unit	Cost
Georgia Power Transmission	0	Mono pole Struct	\$100,000.00	\$0.00
Georgia Power Distribution	0	Pole	\$28,000.00	\$0.00
Georgia Power Lighting	0	pole	\$2,850.00	\$0.00
CATV (Aerial) 1 Coax & 1 Fiber	0	Feet	\$8.00	\$0.00
AT&T Distribution				
Underground Duct	15	Feet	\$235.00	\$3,525.00
Underground Cable	10	Feet	\$55.00	\$550.00
Direct Bury				
Overhead 3 wires	0	Feet	\$65.00	<u>\$0.00</u>
2 Attachments				\$4,075.00
Zayo Underground				
At Cell Tower to S Berk Lake	0	Feet	\$15.00	\$0.00
Relocation at cost to utility (if needed)				
Atlanta Gas Light				
6 in HP STL	0	Feet	\$60.00	\$0.00
4 in MP HDPE	0	Feet	\$24.00	\$0.00
Stopples valves	0	Ea	\$7,500.00	\$0.00
Gas Service conn	0	Ea	\$2,000.00	<u>\$0.00</u>
				\$0.00
Water				
12 in DIP	0	Feet	\$85.00	\$0.00
All other size DIP	0	Feet	\$68.00	\$0.00
Long side feeds	6	Ea	\$1,500.00	\$9,000.00
Short side feeds	6	Ea	\$750.00	\$4,500.00
vaults relo or new	0	Ea	\$6,500.00	\$0.00
wet cut ins	0	Ea	\$4,000.00	\$0.00

tapping sleeve	0	Ea	\$6,500.00	\$0.00
fire hydrants	2	Ea	\$5,600.00	\$11,200.00
Relo Fire Hyd	1	Ea	\$2,100.00	\$2,100.00
adjust valve boxes	5	Ea	\$600.00	\$3,000.00
adjust Manholes	0	Ea	\$3,250.00	\$0.00
Class "B" Concrete	0	Cyd	\$275.00	<u>\$0.00</u>
				\$29,800.00

Sanitary Sewer

24 in DIP Force Main	0	Feet	\$150.00	\$0.00
Sanitary Sewer MH	0	Ea	\$10,300.00	\$0.00
Abandon Exist SS MH	0	Ea	\$850.00	\$0.00
Adjust SS MH	3	Ea	\$650.00	<u>\$1,950.00</u>
				\$1,950.00

Traffic/ATMS/ITS

Raise/Adjust - Type 7 Pullbox	0	Ea	\$1,500.00	\$0.00
Raise/Adjust - Type 5 Pullbox	0	Ea	\$2,150.00	<u>\$0.00</u>
				\$0.00

Total \$35,825.00

NOTICE OF LOCATION AND DESIGN APPROVAL
GWINNETT COUNTY
P. I. NUMBER 0012641

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: March 21, 2016

This is an enhancement project that lies entirely within Gwinnett County and within Land Lots 258, 259, 260, 267 & 268 of the 7th Congressional District.

The proposed 1.1 mile project adds pedestrian facilities in the form of a five foot porous concrete sidewalk to the west side of US 23/SR 13 (Buford Highway) from South Berkeley Lake Road/Simpson Circle to North Berkeley Lake Road. The project also proposes to install approximately 1,100 linear feet of five foot porous concrete sidewalk along the east side of the roadway as it approaches the intersection with North Berkeley Lake Road. New curb and gutter, drainage systems and minor walls are also proposed as part of this project.

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

*Brittney Bulfinch
Brittney.Bulfinch@gwinnettcountry.com
75 Langley Drive
Lawrenceville, GA 30046
770-822-7400*

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:

*Albert V. Shelby, III, State Program Delivery Engineer
Office of Program Delivery
Attn: Charles Robinson
600 West Peachtree Street, Floor 25
Atlanta, GA 30308
404-631-1439*

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.