

ORIGINAL TO GENERAL FILES

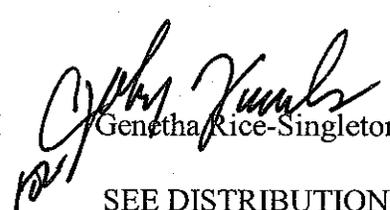
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 142285-, Gwinnett County  
BRST0-0998-00(001)  
SR 324/Gravel Springs Road @ I-85

**OFFICE** Preconstruction

**DATE** June 12, 2008

**FROM**  Genetha Rice-Singleton, Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT** APPROVED NOTICE OF LOCATION AND DESIGN

Attached is the approved Location and Design Report for the above subject project.

Also attached is the Notice of Location and Design Approval. This is the Authorization for the District to proceed with advertisement

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keeper  
Ken Thompson  
Michael Henry  
Keith Golden  
Angela Alexander  
Paul Liles  
Robert Mahoney  
Russell McMurry  
Neil Kantner  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

FILE BRST0-0998 (001) Gwinnett

OFFICE District 1

P.I. 142285

SR 324 over I-85

DATE May 19, 2008

FROM: Russell McMurry, District Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT Request for Location and Design Approval

**Description and Project Proposal:**

The project consists of the replacement of the existing bridge over I-85 and widening of SR 324 in conjunction with other widening projects along SR 324 from SR 20 to SR 124 in Gwinnett County. SR 324 will be widened to a four-lane divided curb and gutter facility with a raised median varying in width from 24 ft to 36 ft. The total length of project is 0.91 miles, beginning at mile log 1.99 and ending at mile log 2.90. The project is entirely within Land Lots 100, 136, 137, 138 and 142, 7<sup>th</sup> District, Gwinnett County, Georgia.

**Concept Approval Date:** July 20, 2005

**Concept Update:**

The Typical Section has been revised to include 2-12 ft. travel lanes northbound, 2-12 ft. travel lanes southbound, curb and gutter with a 36 ft. median and 6' sidewalks on each side. The 36 ft. median will transition to a 24 ft. median prior to the Camp Branch Road and Morgan Road intersections. The 36' median will provide for enhanced safety and not preclude providing for three future left-turn lanes on the bridge; one continuous turn lane in each direction on the full bridge length, and one left turn lane transitioning between northbound and southbound.

The bridge on S.R. 324 over I-85 will also be revised now to one bridge structure 102'-5" in width and 466' in length, eliminating the retaining walls and box section. HOV access is planned for another location and therefore consideration for this has been removed from the project. The bents on the three span bridge will be located between the future collector-distributor lanes and the travel lanes on I-85. No changes to the horizontal alignment on I-85 will be required.

**Public Involvement:**

• Public Information Open House

A Public Information Open House was held on October 24, 2002. A total of 174 people attended the meeting. A total of 85 comments were received.

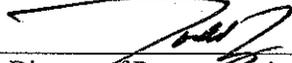
- Opposed – 8,
- Support – 25,
- Conditional – 17,
- No comment – 35

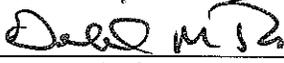
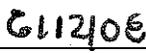
**Consistency with Approved Planning:**

The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

**Recommendations:**

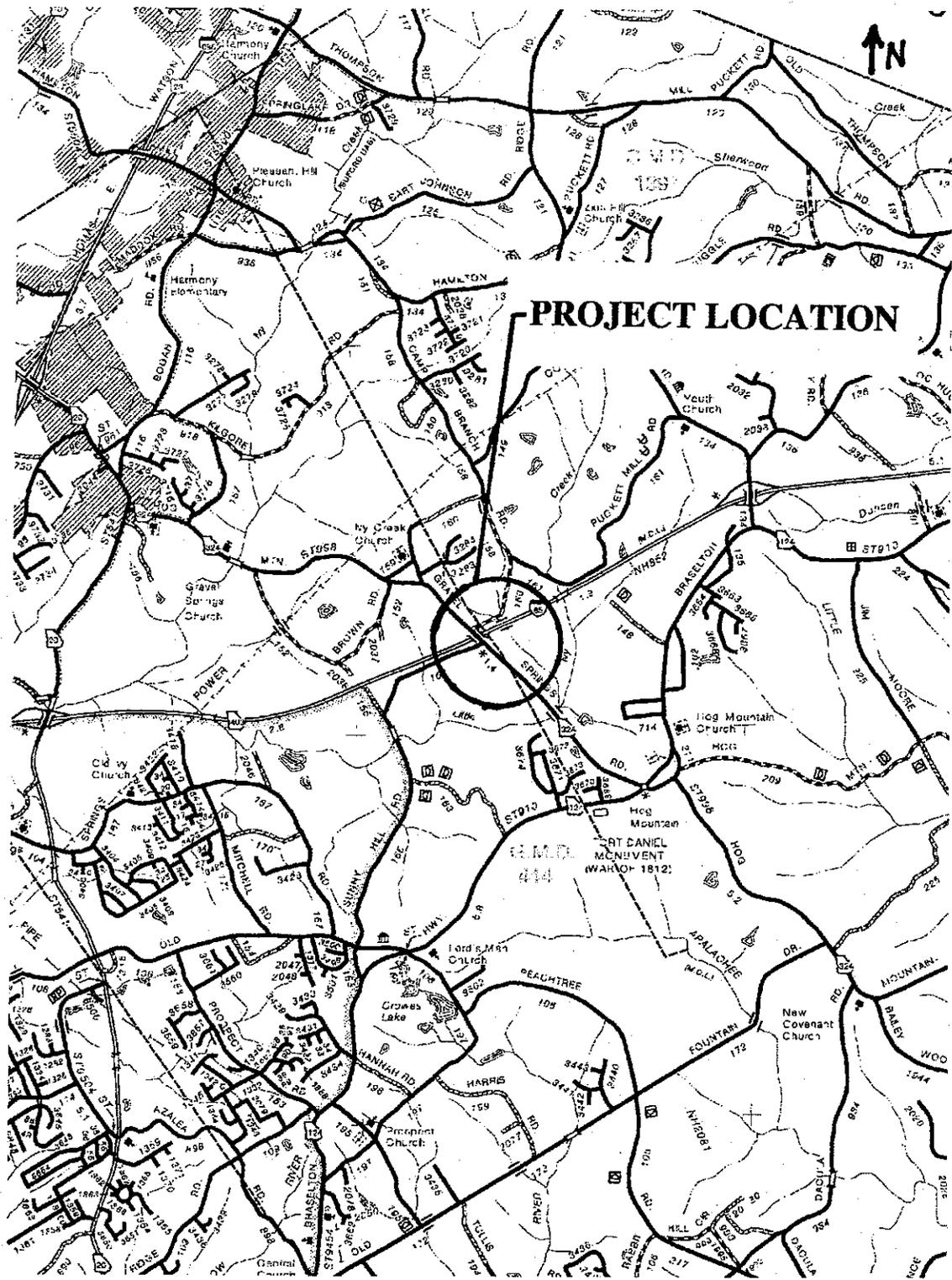
Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

RECOMMEND:   
Director of Preconstruction

APPROVE:    
Chief Engineer Date of Approval

**Attachments:**

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



**PROJECT LOCATION MAP**

Project BRST0-0998-00 (001) Gwinnett County, P.I. 142285

# NOTICE OF LOCATION AND DESIGN APPROVAL

*BRST0-0998-00 (001) Gwinnett*

*P. I. NUMBER 142285*

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 **JUNE 12, 2008**

*The project consists of the replacement of the existing bridge over I-85 and widening of SR 324 in conjunction with other widening projects along SR 324 from SR 20 to SR 124 in Gwinnett County. SR 324 will be widened to a four-lane divided curb and gutter facility with a raised median varying in width from 24 ft to 36 ft. The total length of project is 0.91 miles, beginning at mile log 1.99 and ending at mile log 2.90. The project is entirely within Land Lots 100, 136, 137, 138 and 142, 7<sup>th</sup> District, Gwinnett County, Georgia.*

*The project will consist of constructing the westbound half of the proposed bridge to the south of the existing bridge. The existing bridge will be removed and the eastbound half of the proposed bridge will be constructed along the new alignment. The existing bridge is approximately 280' long and 33' wide and is in need of replacement. The proposed bridge is approximately 466' long and is 102.42' wide.*

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:

*Harold Mull  
HMull@dot.ga.gov  
410 Hurricane Shoals Rd., NW  
Lawrenceville, Georgia 30045  
770-339-2308*

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:

*Robert W. Mahoney, P.E.  
District Preconstruction Engineer  
Georgia Department of Transportation  
District 1  
RMahoney@dot.ga.gov  
P.O. Box 1057  
Gainesville, Georgia 30503  
770-532-5520*

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.

### Estimate Report for file "142285 BRST-0998(1) - 2008-05-02"

Section TEMPORARY EROSION CONTROL ITEMS					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	30	AC	728.93	TEMPORARY GRASSING	21867.90
163-0240	300	TN	181.22	MULCH	54366.00
163-0300	4	EA	1807.17	CONSTRUCTION EXIT	7228.68
163-0504	20	EA	425.00	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 4	8500.00
163-0520	200	LF	16.64	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	3328.00
163-0521	20	EA	200.00	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	4000.00
163-0530	10000	LF	4.07	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	40700.00
163-0531	2	EA	8336.05	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -	16672.10
165-0030	20000	LF	1.32	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	26400.00
165-0040	20	EA	102.10	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	2042.00
165-0060	4	EA	1400.14	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	5600.56
165-0070	5000	LF	1.72	MAINTENANCE OF BALED STRAW EROSION CHECK	8600.00
165-0088	20	EA	100.00	MAINTENANCE OF SILT CONTROL GATE, TP 4	2000.00
165-0101	4	EA	531.92	MAINTENANCE OF CONSTRUCTION EXIT	2127.68
167-1000	2	EA	1087.83	WATER QUALITY MONITORING AND SAMPLING	2175.66
167-1500	24	MO	973.27	WATER QUALITY INSPECTIONS	23358.48
171-0030	40000	LF	3.73	TEMPORARY SILT FENCE, TYPE C	149200.00
<b>Section Sub Total:</b>					<b>\$378,167.06</b>

Section ROADWAY ITEMS					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	900000.00	TRAFFIC CONTROL - BRST-0998(1)	900000.00
150-5000	20	EA	500.00	TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE	10000.00
153-1300	1	EA	69627.91	FIELD ENGINEERS OFFICE TP 3	69627.91
201-1500	1	LS	150000.00	CLEARING & GRUBBING	150000.00
206-0002	100000	CY	6.47	BORROW EXCAV, INCL MATL	647000.00
207-2003	100	CY	33.60	IMPERFECT TRENCH BK FILL MATL, TP III	3360.00
310-5100	6250	SY	16.46	GR AGGR BASE CRS, 10 INCH, INCL MATL	102875.00
318-3000	1000	TN	23.28	AGGR SURF CRS	23280.00
402-1811	200	TN	108.73	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL	21746.00
402-3112	2444	TN	75.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	183300.00
402-3121	3667	TN	75.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	275025.00
402-3131	917	TN	75.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	68775.00
413-1000	2194	GL	2.00	BITUM TACK COAT	4388.00
441-0016	300	SY	39.75	DRIVEWAY CONCRETE, 6 IN TK	11925.00
441-0740	1000	SY	35.93	CONCRETE MEDIAN, 4 IN	35930.00
550-1180	3000	LF	40.19	STORM DRAIN PIPE, 18 IN, H 1-10	120570.00
550-1240	4000	LF	46.13	STORM DRAIN PIPE, 24 IN, H 1-10	184520.00
550-1360	1000	LF	80.97	STORM DRAIN PIPE, 36 IN, H 1-10	80970.00
550-3624	4	EA	975.07	SAFETY END SECTION 24 IN, SIDE DRAIN, 6:1 SLOPE	3900.28
550-4136	2	EA	819.07	FLARED END SECTION 36 IN, SIDE DRAIN	1638.14
577-1100	4	EA	1882.31	METAL DRAIN INLET - COMPLETE ASSEMBLY	7529.24
620-0100	2000	LF	26.35	TEMPORARY BARRIER, METHOD NO. 1	52700.00
634-1200	50	EA	101.50	RIGHT OF WAY MARKERS	5075.00
635-1000	20	LF	99.82	BARRICADES	1996.40
641-1100	100	LF	42.44	GUARDRAIL, TP T	4244.00
641-1200	2000	LF	15.44	GUARDRAIL, TP W	30880.00
641-5001	4	EA	619.00	GUARDRAIL ANCHORAGE, TP 1	2476.00
641-5012	4	EA	1838.99	GUARDRAIL ANCHORAGE, TP 12	7355.96
643-8200	100	LF	2.91	BARRIER FENCE (ORANGE), 4 FT	291.00
668-8013	100	SF	40.07	SAFETY GRATE, TP 3	4007.00
<b>Section Sub Total:</b>					<b>\$3,015,384.93</b>

#### Section PERMANENT EROSION CONTROL ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
166-0650	1	EA	27500.00	RESTORATION OF LAKE, STA -	27500.00
441-0204	500	SY	36.30	PLAIN CONC DITCH PAVING, 4 IN	18150.00
603-2018	50	SY	53.31	STN DUMPED RIP RAP, TP 1, 18 IN	2665.50
603-2024	100	SY	54.72	STN DUMPED RIP RAP, TP 1, 24 IN	5472.00
603-2036	100	SY	60.00	STN DUMPED RIP RAP, TP 1, 36 IN	6000.00
603-7000	250	SY	5.23	PLASTIC FILTER FABRIC	1307.50
<b>Section Sub Total:</b>					<b>\$61,095.00</b>

Section BRIDGE OVER I-85					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
000-XXXX	48162	SF	150.00	BRIDGE OVER I-85	7224300.00
500-3201	1100	CY	556.27	CLASS B CONCRETE, RETAINING WALL	611897.00
<b>Section Sub Total:</b>					<b>\$7,836,197.00</b>

Section SIGNING AND MARKING ITEMS					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
000-XXXX	1	Lump Sum	100000.00	SIGNING AND MARKING - PROJECT	100000.00
<b>Section Sub Total:</b>					<b>\$100,000.00</b>

Total Estimated Cost: \$11,390,843.99

<b>Subtotal Construction Cost</b>	<b>\$11,390,843.99</b>
E&C Rate 10.0 %	\$1,139,084.40
Inflation Rate 0.0 % @ 0 Years	\$0.00
<b>Total Construction Cost</b>	<b>\$12,529,928.39</b>
Right Of Way	<del>\$7,288,000.00</del>
ReImb. Utilities	\$0.00
<b>Grand Total Project Cost</b>	<b>\$19,817,928.39</b>

ENGINEERING @ 5% 569,542  
 CONTINGENCY @ 8% 956,830

TOTAL CONST COST - 12,917,215.4  
 RIGHT-OF-WAY - 8,780,000  
 REIMB UTILITIES - -

TOTAL PROJECT COST \$21,697,215.4

*JAP*  
 6/12/2008

# Preliminary Right of Way Cost Estimate

**Date:** June 3, 2008  
**Project:** BRST-0998(1); Gwinnett County  
**Existing/Required R/W:** Varies/Varies  
**Project Termini:** Gravel Springs Rd bridge over I-85, from 1,800' west to 1,800' east of the bridge  
**Project Description:** SR324 over I-85 Bridge Replacement

**P.I. Number** 142285  
**No. Parcels** 29

**Fee Simple:**

Small Residential	40,342 sf @ \$	1.84 /sf = \$	74,230	
Large Residential	455,804 sf @ \$	1.15 /sf = \$	524,175	
Commercial	55,518 sf @ \$	10.33 /sf = \$	573,501	
				\$ 1,171,906

**Premanent Construction Easement:**

Small Residential	40,959 sf @ \$	0.92 /sf = \$	37,682	
Large Residential	321,642 sf @ \$	0.58 /sf = \$	186,552	
Commercial	0 sf @ \$	5.17 /sf = \$	0	
				\$ 224,234

1,396,140

**Improvements:**

0 Commercial	@ \$400,000 /parcel	=	\$	0
1 Residential	@ \$200,000 /parcel	=	\$	200,000

200,000

**Relocation:**

0 Commercial	@ \$25,000 /parcel	=	\$	0
1 Residential	@ \$40,000 /parcel	=	\$	40,000

40,000

**Damages:**

Proximity -	0 Parcels	\$	
Consequential -	1 Parcels	\$	1,903,443
Cost To Cure -	0 Parcels	\$	0

1,903,443

Net Cost		\$	3,559,583
Scheduling Contingency	55%	\$	1,946,771
Adm/Court Cost	60%	\$	3,291,813
Market Appreciation	0%	\$	0
		\$	8,778,167

## Total Cost

# \$ 8,780,000

Prepared By :

  
 Emory D. Dixon III Cert. No. 2403  
 Moreland Altobelli Associates, Inc.

Approved :

  
 GDOT R/W