

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006699, Columbia County **OFFICE** Preconstruction
CSMLS-0006-00(699)
I-20 Noise Barriers West of SR 383/Belair Road **DATE** November 20, 2006

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

TO SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

GRS/cj

Attachment

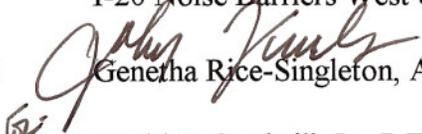
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FHWA

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0006699, Columbia County **OFFICE** Preconstruction
 CSMLS-0006-00(699)
 I-20 Noise Barriers West of SR 383/Belair Road **DATE** October 4, 2006

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  David E. Studstill, Jr., P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project consists of the installation of 1.33 miles of noise barriers on the north side and 0.624 mile on the south side of I-20 in Columbia County just west of Belair Road. The limits of the project are from SR BMP 14.19 to SR EMP 15.67. The primary purpose of this project is to provide a reduction in noise on I-20 west of SR 83. This condition will continue to deteriorate as traffic grows if the noise barriers are not implemented. State Route 402/I-20 in Columbia County is functionally classified as an interstate principal arterial and the posted speed is 65 MPH. The base year (2009) traffic is 50,940 AADT and the design year (2029) traffic is 77,760 AADT.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing open house is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$4,875,000	\$2,800,000	L240	2007
Right-of-Way & Utilities	-0-	-0-		

This project is a congressional earmark identified in FFY 2004 under the "Section 115 Surface Transportation Project" category. I recommend this project concept be approved.

GRS:JDQ/cj

Attachment

CONCUR


 Todd I. Long, P.E., Director of Preconstruction

APPROVE


 For: Robert M. Callan, Administrator, FHWA

APPROVE


 David E. Studstill, Jr., P.E., Chief Engineer

Recommended for Approval


 10-26-06
 DATE

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: CSMLS-0006-00(699) Columbia **OFFICE:** Engineering Services
P.I. No. 0006699
S.R. 402/I-20 Noise Barriers west of S.R. 383/Belair Road

DATE: October 2, 2006

FROM: *BKS*
Brian K. Summers, P.E., Project Review Engineer

TO: Genetha Rice-Singleton Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report received September 20, 2006 from Abraham NeBiat, and have no comments.

The costs for this project are:

Construction	\$4,431,326
E & C	\$443,133
Right of Way	\$0

BKS

c: Ben Buchan, Attn.: Abraham NeBiat

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

S.R. 402/I-20 Noise Barrier west of S.R. 383/Belair Road

Project Number: CSMLS-0006-00(699)

County: Columbia

P. I. Number: 0006699

Federal Route Number: N/A

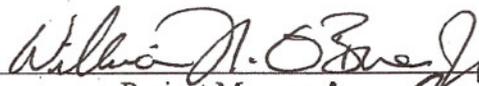
State Route Number: 402

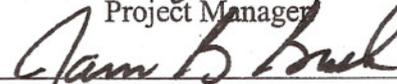
County Route Number: N/A

Recommendation for approval:

DATE 9-15-06

DATE 9/19/06


Project Manager


Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

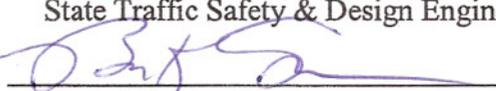
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE 10/2/06


Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer

SCORING RESULTS AS PER MOG 2440-2

Project Number: CSMSL-0006-00(699)		County: Columbia		PI No.: 0006699	
Report Date: September 13, 2006		Concept By: DOT Office: Urban Design			
<input checked="" type="checkbox"/> Concept Stage					
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input checked="" type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Urban Design

PROJECT CONCEPT REPORT

S.R. 402/I-20 Noise Barrier west of S.R. 383/Belair Road

Project Number: CSMLS-0006-00(699)

County: Columbia

P. I. Number: 0006699

Federal Route Number: N/A

State Route Number: 402

County Route Number: N/A

Recommendation for approval:

DATE 9-15-06

William A. O'Connell Jr.
Project Manager

DATE 9/19/06

James B. Buel
Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

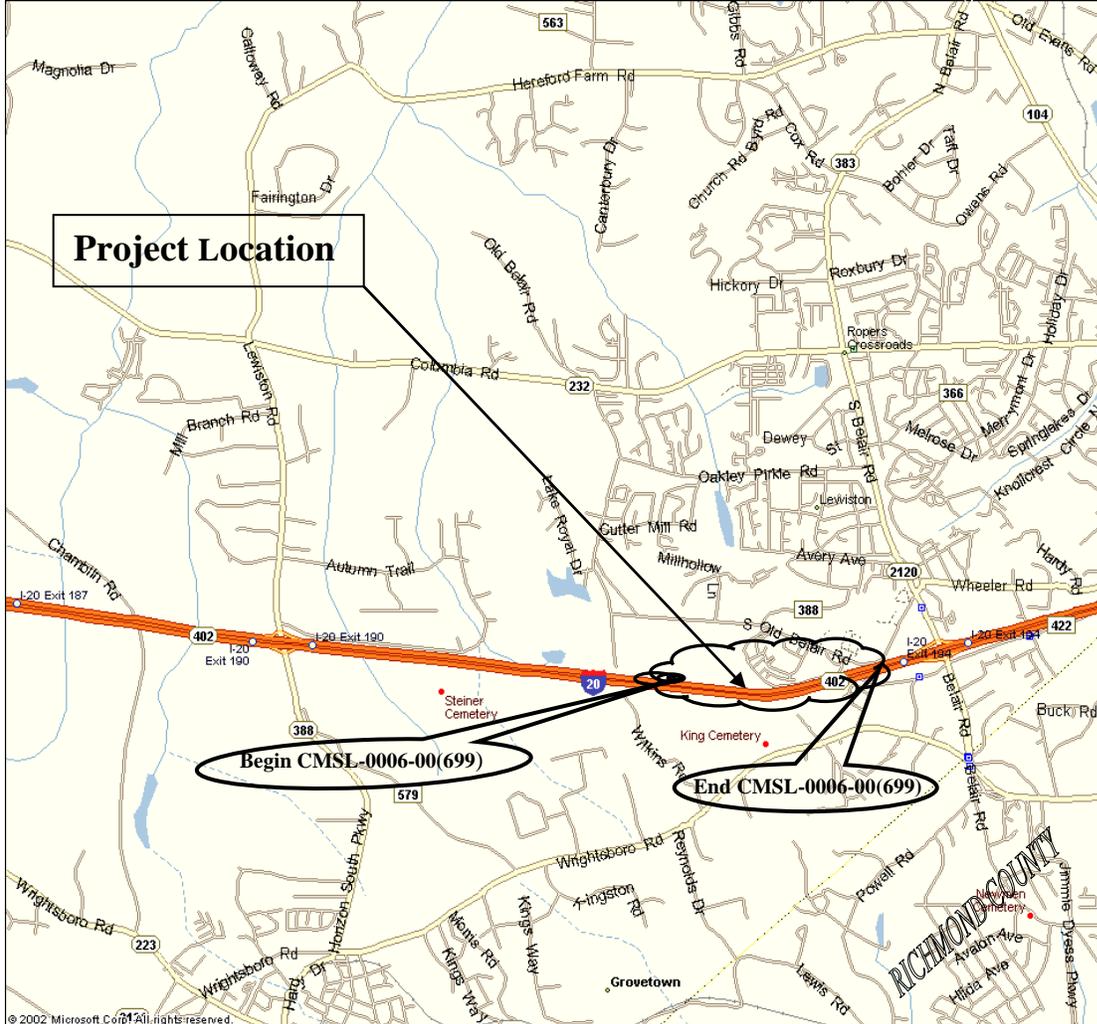
State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer



LOCATION MAP
PROJECT: CSMLS-0006-00(699)
PI. No.: 0006699

Project Concept Report page: 3
Project Number: CSMLS-0006-00(699)
P. I. Number: 0006699
County: Columbia

Need and Purpose: The need of the proposed improvement is due to the increasing noise impact caused by the traffic growth to the surrounding environment. The primary purpose of this project is to provide a reduction in noise on I-20 west of S.R. 383. This condition will continue to deteriorate as traffic grows if the noise barriers are not implemented. This project is a congressional earmark identified in FFY 2004 under the “Section 115 Surface Transportation Project” category.

S.R. 402/I-20 in Columbia County is functionally classified as an Interstate Principal Arterial. The posted speed limit is 65 MPH. The design year 2009 traffic counts is 50,940 AADT and the projected traffic is 77,760 AADT in 2029.

Description of the proposed project: The proposed project will install noise barrier walls along the shoulder break line of the proposed S.R. 402/I-20 corridor. The project is 1.48 miles long with an overlapping of 0.473 miles on the South Side of S.R. 402 /I-20, and is 100% in Congressional District 9 in the County of Columbia. The limits of the project are from State Route BMP (beginning mile post) 14.19 or Sta. # 765+00 to State Route EMP (ending mile post) 15.67 or Sta. # 843+00.

Project Concept Report page: 4
Project Number: CSMLS-0006-00(699)
P. I. Number: 0006699
County: Columbia

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

PDP Classification: Major _____ Minor X

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

Functional Classification: Interstate Principal Arterial

U. S. Route Number(s): I-20

State Route Number(s): 402

Traffic (AADT): S.R. 402/I-20

Current Year: (2007) 50,940

Design Years: (2027) 77,760

Existing design features:

Typical Section: *The existing typical consists of 2-12' lanes in each direction with 6' inside shoulder and a 10' outside paved shoulder divided by a grassed median that varies from 136' to 50' as the median approaches the ramp.*

- Posted speed: 65 mph Maximum radius of curve:
- Maximum grade: 12%
- Width of right of way: 300 feet (estimated)
- Major structures: N/A
- Major interchanges or intersections along the project: S.R. 402/I-20 Interchange @ S.R. 383/Belair Rd.
- Existing length of roadway segment: 1.48 miles
- State Route Mile Post Reference: S.R. 402 → *Begin M.P. 14.19; End M.P. 15.67*

Proposed Design Features:

- Proposed typical section(s): *The proposed typical will maintain the existing typical that consists of 2-12' lanes in each direction with 6' inside shoulder and a 10' outside paved shoulder divided by a grassed median that varies from 136' to 50' as the median approaches the ramp. The proposed typical will add noise barriers wall at the shoulder break line, v-gutter along the proposed noise barrier wall and guardrail will be considered as needed.*

- Proposed Design Speed Mainline: N/A
- Proposed Maximum grade Mainline: N/A Maximum grade allowable N/A
- Proposed Maximum grade Side Street: N/A Maximum grade allowable: N/A
- Proposed Minimum radius: N/A Maximum Radius allowable: N/A

- Right of way
 - Width: 300-foot (estimated)
 - Easements: Temporary (), Permanent (X), Utility (), Other ()
 - Type of access control: Full (X), Partial (), By Permit (), other ()
 - Number of parcels: 0 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

- Structures: None
- Bridges: None
- Retaining walls: None
- Major intersections and interchanges: None
- Traffic control during construction: Constructed under traffic
- 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: None
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),

Project Concept Report page: 6
Project Number: CSMLS-0006-00(699)
P. I. Number: 0006699
County: Columbia

- Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements: *TBD*

Project responsibilities:

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

Coordination

- FEMA, USCG, and/or TVA - *None*
- Public involvement. - *TBD*
- Local government comments. - *None*
- Other projects in the area. – *CSSTP-0006(420) Safety Project along S.R.402/I-20 under construction and CSNHS-0008-00 (219) widening of I-20 from SR 383/Belair Road to East of CR 601/Wheeler Road, November 2006 let date.*
- Other coordination to date. – *N/A*
- Railroads - *N/A*

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: *6 Months.*
- Time to complete preliminary construction plans: *7 Months.*
- Time to complete right of way plans: *0 Months.*
- Time to complete the Section 404 Permit: *0 Months.*
- Time to complete final construction plans: *2 Months.*
- Time to complete to purchase right of way: *0 Months.*
- List other major items that will affect the project schedule: *N/A Months.*

Other alternates considered: 1. *No Build*

Attachments:

1. Cost Estimate
2. Location & Design Notice
3. Typical Section
4. Corridor Layout

Cost Estimate Report for Project No. CSMLS-0006-00(699)

P.I. No.: 0006699

County: Columbia

Section NOISE BARRIER WALL QUANTITIES

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	200000.00	TRAFFIC CONTROL - CSMLS-0006-00(699)	200000.00
165-0030	5150	LF	3.00	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	15450.00
171-0030	10300	LF	5.00	TEMPORARY SILT FENCE, TYPE C	51500.00
201-1500	1	LS	160000.00	CLEARING & GRUBBING - CSMLS-0006-00(699)	160000.00
310-5060	573	SY	12.00	GR AGGR BASE CRS, 6 INCH, INCL MATL	6876.00
441-3999	10300	LF	21.00	CONCRETE V GUTTER	216300.00
550-1180	600	LF	49.00	STORM DRAIN PIPE, 18 IN, H 1-10	29400.00
622-1033	10300	LF	42.00	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	432600.00
624-0410	144200	SF	20.00	SOUND BARRIER	2884000.00
641-1200	10300	LF	20.00	GUARDRAIL, TP W	206000.00
668-2231	30	EA	7140.00	DROP INLET, GP 1, MODIFIED TP M-1	214200.00
694-1050	1	LS	15000.00	SIGNING AND MARKING	15000.00
Section Sub Total:					\$4,431,326.00

Total Estimated Cost: \$4,431,326.00**Subtotal Construction Cost****\$4,431,326.00**

E&C Rate 10.0 %

\$443,132.60

Inflation Rate 0.0 % @ 0.0 Years

\$0.00

Total Construction Cost**\$4,874,458.60**

Right Of Way

\$0.00

Relmb. Utilities

\$0.00

Grand Total Project Cost**\$4,874,458.60**

NOTICE OF LOCATION AND DESIGN APPROVAL

**CSMLS-0006-00(699)
P.I. No. 0006699**

Notice is hereby given in compliance with Georgia Code 22-2-19 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The project lies entirely within Columbia County and within Congressional District 9.

Date of Location and Design Approval NOVEMBER 20, 2006

This project proposes to construct 1.33 miles of Noise Barriers on the north side and 0.624 mile on the south side of S.R. 402/I-20 in Columbia County. The end of the project is +/- 0.284 miles west of S.R. 383 interchange.

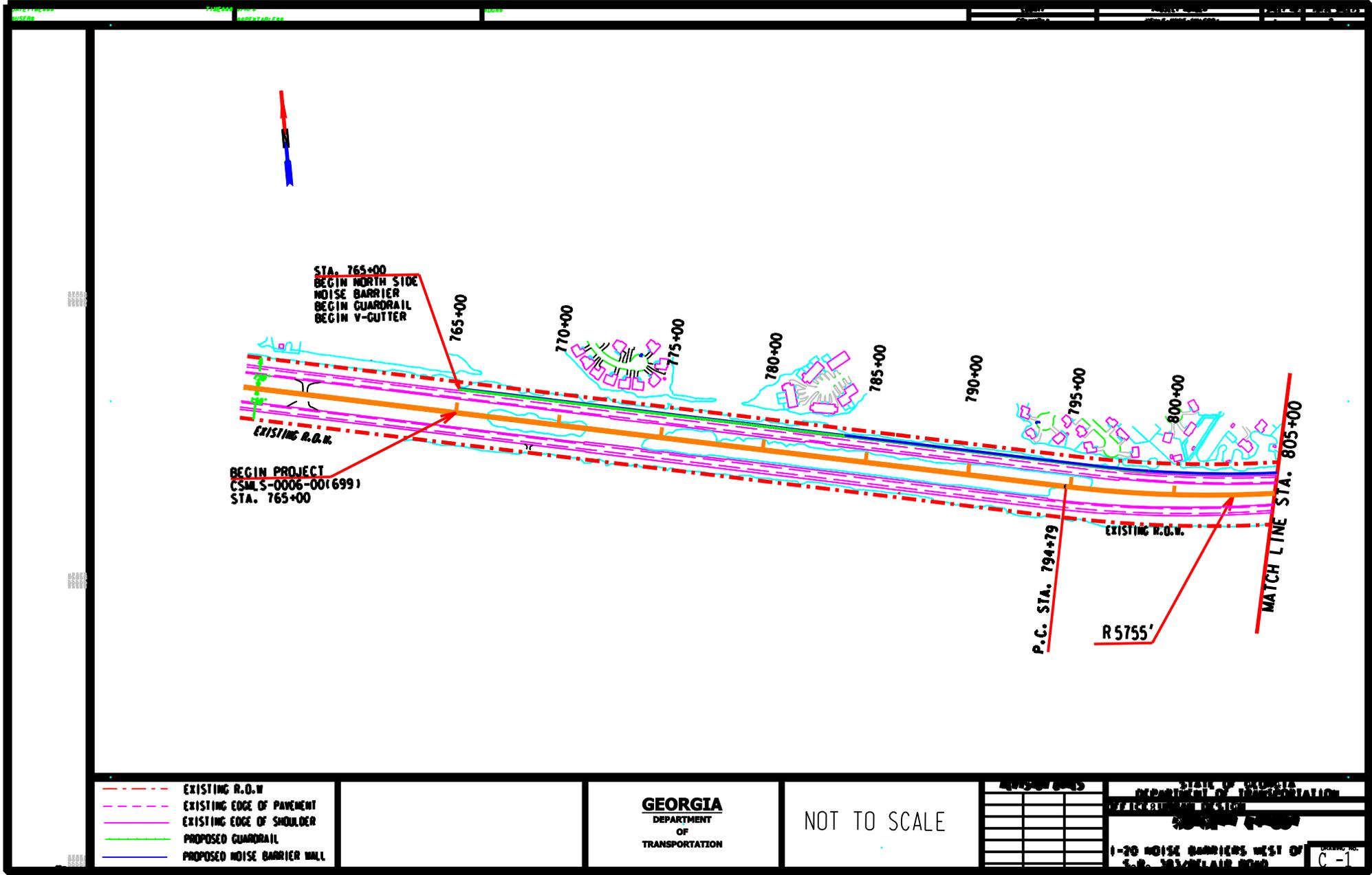
Drawings of maps or plats of the proposed project, as approved, are on file and are available for inspection at the Georgia Department of Transportation:

Scott Stephens, Jr., Area Engineer
Georgia Department of Transportation
4260 Frontage Road
Augusta, Georgia 30909
TEL: (706) 855 3466
FAX: (706) 855 3479
Scott.stephens@dot.state.ga.us

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

Ben Buchan P.E., State Urban Design Engineer
Georgia Department of Transportation
2 Capitol Square,
Atlanta, Georgia 30334-1002
TEL: (404) 656 5436
FAX: (404) 657 7921
Ben.Buchan@dot.state.ga.us

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 page



- EXISTING R.O.W.
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF SHOULDER
- PROPOSED GUARDRAIL
- PROPOSED NOISE BARRIER WALL

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

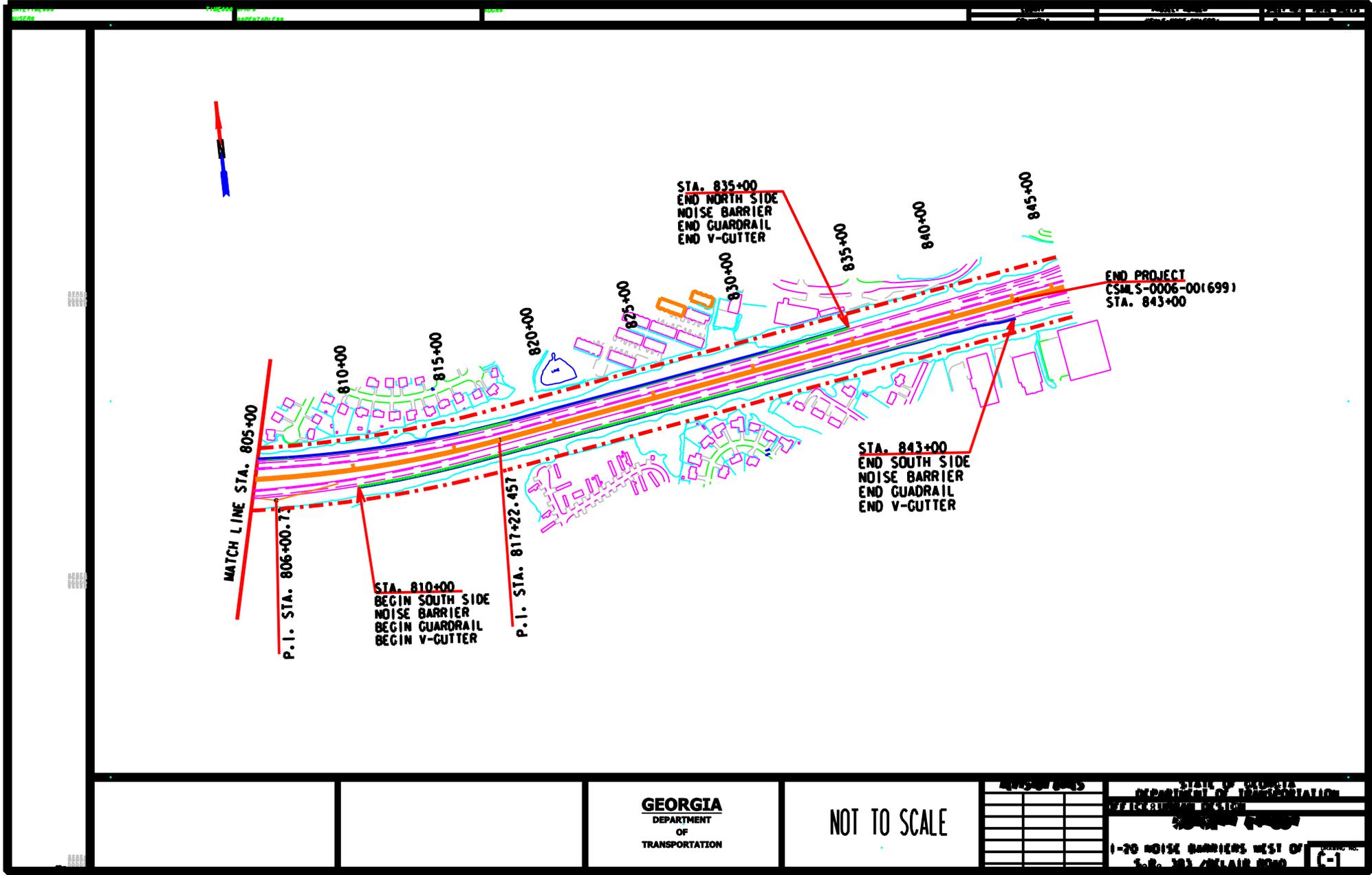
NOT TO SCALE

NO.	DESCRIPTION	DATE

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF DESIGN
DESIGN NO. **50-006-000**

I-20 NOISE BARRIERS WEST OF S.R. 303/DELAIR ROAD

DRAWING NO. **C-1**



GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

NOT TO SCALE

NO.	DESCRIPTION	DATE

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 TRUCKLOAD DESIGN
NOISE BARRIERS
 1-20 NOISE BARRIERS WEST OF
 I-20, 303 WELLS ROAD

(-)

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office of Urban Design

PROJECT CONCEPT REPORT

S.R. 402/I-20 Noise Barrier west of S.R. 383/Belair Road

Project Number: CSMLS-0006-00(699)

County: Columbia

P. I. Number: 0006699

Federal Route Number: N/A

State Route Number: 402

County Route Number: N/A

Recommendation for approval:

DATE 9-15-06

William D. O'Brien Jr.
Project Manager

DATE 9/19/06

James B. Bouch
Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE 11-19-06

Paul V. Tiller Jr.
State Bridge and Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

S.R. 402/I-20 Noise Barrier west of S.R. 383/Belair Road

Project Number: CSMLS-0006-00(699)

County: Columbia

P. I. Number: 0006699

Federal Route Number: N/A

State Route Number: 402

County Route Number: N/A

Recommendation for approval:

DATE 9-15-06

William M. O'Brien Jr.
Project Manager

DATE 9/19/06

James B. Bush
Office Head/District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE 11-8-06

James T. Simpson
Office of Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge and Structural Design Engineer