

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007142, Cobb County **OFFICE** Preconstruction
STP-0007-00(142)
SR 92 at Collins Circle Left Turn Lanes **DATE** May 17, 2006

FROM *G. J. Pirkle*
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO *for* SEE DISTRIBUTION

SUBJECT APPROVED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Bryant Poole
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

District Seven

PROJECT CONCEPT REPORT

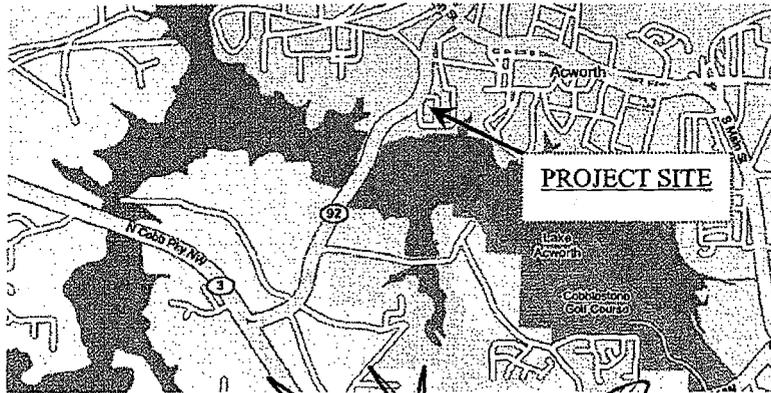
Project Number: CSSTP-0007-00(142)

County: Cobb

P. I. Number: 0007142

Federal Route Number: None

State Route Number: SR 92



Recommendation for approval:

DATE 14 April 2006

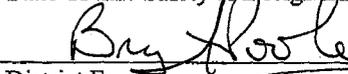

Project Manager

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

DATE 4-17-06


State Traffic Safety & Design Engineer

DATE 5/3/06


District Engineer

DATE 5/12/06


Chief Engineer

Project Concept Report page 2
Project Number: CSSTP-0007-00(142)
P. I. Number: 0007142
County: Cobb

Need and Purpose: S. R. 92/Lake Acworth Road functions as an Urban Principal Arterial and is a major connection for commuter traffic to access I-75, I-575 and GA 400. In addition, S.R. 92/Lake Acworth Road is a major through way for access to Cherokee county and north Fulton County. S.R. 92/Lake Acworth Road is a primary route through the City of Acworth and provides access to Lake Allatoona and Lake Acworth. Major intersections along the route are: S.R. 3/Cobb Parkway, North Main Street with entrance and exit ramps, Cherokee Street/Glade Road and Cowan/Baker Road.

Currently there are no left turn lanes on S.R. 92/Lake Acworth Road for Collins Circle. Sixty one percent of the accidents from Kemp Ridge Road to Collins Circle on S.R. 92 were rear end type accidents. The majority of the accidents were with a vehicle slowing or in a nearly stopped position behind a left turning vehicle. Therefore, it is necessary to improve S.R. 92/Lake Acworth Road at Collins Circle to provide safety and efficiency along the corridor.

Description of the proposed project: The proposed project consists of adding left turn lanes on S.R. 92 at Collins Circle. Re-aligning Collins Circle to a ninety degree angle with S.R. 92 and converting the S.R. 92 and Adams Circle intersection into a cul-de-sac.

Is the project located in a Non-attainment area? Yes No.
(Proposed project is a safety project and is exempt from conformity.)

PDP Classification: Major Minor

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

Functional Classification: Urban Principal Arterial

U. S. Route Number(s): None **State Route Number(s):** 92

Traffic (AADT):

Current Year: (2005) 24,329 Opening Year: (2006) 24,938
Design Year: (2026) 40,864

Existing design features:

- Typical Section: Rural two-lane with 12-foot lanes and grassed shoulders
- Posted speed 40 mph Minimum radius for curve: 660
- Maximum super-elevation rate for curve: N.A.
- Maximum grade: 10 %
- Width of right of way: 80 ft.
- Major structures: none
- Major interchanges or intersections along the project: none
- Existing length of roadway segment and the beginning mile logs for each county segment: N.A.

Proposed Design Features:

- Proposed typical section(s): Rural section, 2 - 12 ft. lanes with min. 6.5 ft. paved 4 ft grassed shoulder; Urban section, 2 - 12 ft. lanes w/ 12 ft shoulder 5 ft sidewalk, 2 ft grass
- Proposed Design Speed Mainline 40 mph
- Proposed Maximum grade Mainline 5.8 % Maximum grade allowable 6 %.
- Proposed Maximum grade Side Street 8.5 % Maximum grade allowable 10 %.
- Proposed Maximum grade driveway 15 %
- Proposed Minimum radius for curve N.A. Minimum radius allowable 565 ft.
- Proposed Maximum super-elevation rate for curve: 4.0%
- Proposed Maximum degree of curve N. A. Minimum degree allowable N.A.
- Right of way
 - Width 12 ft. from edge of pvmt. (c&g section)
 - Easements: Temporary (), Permanent (X), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 10 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures: None
- Major intersections and interchanges: NA
- Traffic control during construction: Open to 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)

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Project Number: CSSTP-0007-00(142)
P. I. Number: 0007142
County: Cobb

- Design Variances: None anticipated
- Environmental concerns:
- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (), No (x),
 - Categorical exclusion (x),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements:

Project responsibilities:

- Design: Consultant
- Right of Way Acquisition: GDOT
- Relocation of Utilities: Utility Companies
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Contractor
- Providing detours: GDOT

Coordination

- Initial Concept Meeting date and brief summary. Attach minutes. **Not Required**
- Concept meeting date and brief summary. **Not Required**
- P. A. R. meetings, dates and results. **Not Required**
- FEMA, USCG, and/or TVA. **Not Required**
- Public involvement. **Not Required**
- Local government comments. **Not Required**
- Other projects in area:
- Other coordination to date.
- Railroads **None Impacted by Project**

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 6 Months.
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 6 Months.
- Time to complete the Section 404 Permit: 3 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 7 Months.
- List other major items that will affect the project schedule: N.A. Months.

Project Concept Report page 5
Project Number: CSSTP-0007-00(142)
P. I. Number: 0007142
County: Cobb

Other alternates considered:

No Build—

Concept A: Re-align Collins Circle with SR-92 and make Adams Circle a right in right out onto SR 92.

Concept B: Re-align Collins Circle with SR-92 and make Adams Circle a right out onto SR 92.

Comments:

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
2. Concept Drawing
3. Typical Sections
4. Traffic Data
5. Location and Design Notice

NOTICE OF LOCATION AND DESIGN APPROVAL

**CSSTP-0007-00(142), Cobb County
P.I. Number: 0007142**

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.

Date of Location and Design Approval: *MAY 17, 2006*

This project is located at the intersection of S.R. 92/Lake Acworth Road and Collins Circle. This project consists of improving the intersection of S.R. 92 with Collins Circle in Cobb County. The project lies within Land District 20, Land Lots 33 & 44 and GMD 851.

The proposed project consists of adding a left turn lane on S.R. 92 at Collins Circle. Re-aligning Collins Circle to a ninety degree angle with S.R. 92 and converting the S.R. 92 and Adams Circle intersection into a cul-de-sac.

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:

**Jeff Woodward, Area Engineer
Georgia Department of Transportation
862 Barns Mill Road
Marietta, Georgia 30062**

(770) 528-3238 / 3416

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:

**Keith Golden, P.E., State Traffic Safety and Design Engineer
Office of Traffic Safety and Design
935 E. Confederate Avenue, Bldg. No. 24
Atlanta, Georgia 30316**

(404) 635-8115

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.

Preliminary Cost Estimate

Project No.:	CSSTP-0007-00(142)
PI No.:	0007142
GS&P Project No.:	22869.16
Date:	4/14/06
Description:	SR 92 @ COLLINS CIRCLE
County:	Cobb
Length of Roadway:	0.29 miles

Project Cost

A. Right of Way

1. Property (Land & Easement)	\$242,715.00	\$242,715
2. Displacements: Res: , Bus:, M.H.:	\$0.00	\$0
3. Other Costs (Admin./Cost, Inflation)	\$0.00	\$0
Subtotal: A		\$242,715

B. Reimbursable Utilities

1. Railroad	\$0.00	\$0
2. Transmission Lines	\$0.00	\$0
3. Services	\$0.00	\$0
Subtotal: B		\$0

C. Construction

1. Major Structures

1 Retaining Walls	\$0.00	\$0
2 Bridges	\$0.00	\$0
3 Detour Bridges	\$0.00	\$0
4 Box Culverts	\$0.00	\$0
5 Remove Existing Bridge	\$0.00	\$0
Subtotal: C-1		\$0

2. Grading & Earthwork

1 Borrow	12000	CY	\$2.24	\$26,880
Subtotal: C-2				\$26,880

3. Drainage

1 Drainage pipes		
500 LF18"RCP @	\$35.02	\$17,510
300 LF24"RCP @	\$41.65	\$12,495
300 LF48"RCP @	\$95.56	\$19,112
2 Safety end sections		
10 ea 18"@	\$710.00	\$7,100
3 Catch Basins/Drop Inlets/Manholes		
10 Each @	\$1,814.00	\$18,140
		Subtotal: C-3
		\$74,357

4. Base & Paving

1 Asphalt Paving		
417 Ton 9.5 mm Superpave Overlay	\$49.86	\$20,792
192 Ton 9.5 mm Superpave	\$49.86	\$9,573
391 Ton 19mm Superpave	\$60.00	\$23,460
586 Ton 25mm Superpave	\$57.98	\$33,976
96 Ton Leveling @	\$46.44	\$4,458
1,349 gal Bitum. Tack @	\$1.74	\$2,347
2 Graded Aggregate Base		
800 Ton 12" GAB	\$ 13.63	\$10,904
0 Ton 8" GAB	\$ 8.85	\$0
0 Ton 6" GAB	\$ 6.26	\$0
		Subtotal: C-4
		\$105,511

5. Concrete Work

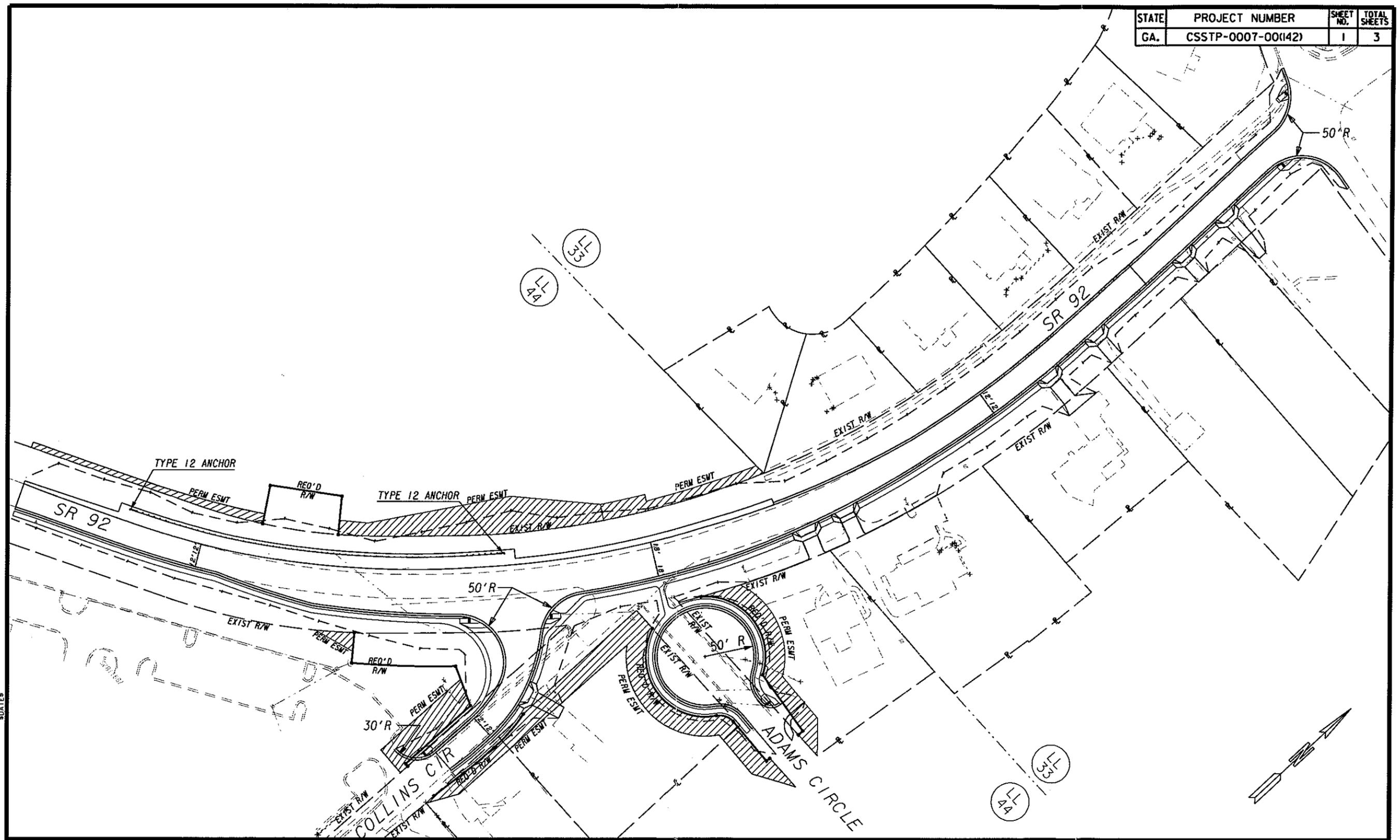
1 Curb & Gutter		
2,934 LF Type 2 @	\$12.15	\$36,013
2 4" Sidewalk		
1,300 SY @	\$48.72	\$87,696
3 Valley Gutter		
240 SY 8" @	\$40.05	\$9,612
4 Driveway Concrete 8"		
280 SY @	\$47.10	\$13,188
		Subtotal: C-5
		\$146,509

6. Signing & Striping				
1 Arrow Type 2	6	EA	\$65.57	\$393
2 Thermo. Solid 5" White	4000	LF	\$1.69	\$6,760
3 Thermo. Solid 5" Yellow	3100	LF	\$0.41	\$1,271
4 Highway Signs	20	EA	\$150.00	\$3,000
5 Thermo. Skip 5" White	100	LF	\$0.29	\$29
6 Thermo. Solid Traff. Stripe, 24" WHITE	12	LF	\$4.46	\$54
7 Thermo. Traff. Stripping(Hatching)	40	SY	\$2.99	\$120
			Subtotal: C-6	\$11,627
7. Guardrail				
400 LF Type W @	\$17.26			\$6,904
2 ea Type 12 anchors @	\$1,759.70			\$3,519
			Subtotal: C-7	\$10,423
8. Traffic Control				
1 LS @	\$50,000			\$50,000
			Subtotal: C-8	\$50,000
9. Clearing & Grubbing				
0.5 AC @	\$5,000			\$2,500
			Subtotal: C-9	\$2,500
10. Permanent Erosion Control				
1 LS @	\$100,000			\$100,000
			Subtotal: C-10	\$100,000
11. Temporary Erosion Control				
1 LS @	\$150,000			\$150,000
			Subtotal: C-11	\$150,000
12. Misc				
	\$30,000			\$30,000
			Subtotal: C-12	\$30,000

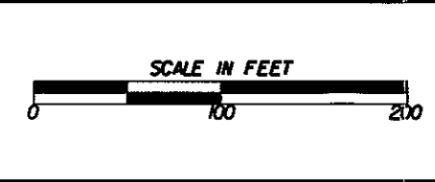
Preliminary Cost Estimate Summary

A. Right of Way	\$242,715
B. Reimbursable Utilities	\$0
C. Construction	
1. Major Structures	\$0
2. Grading & Earthwork	\$26,880
3. Drainage	\$74,357
4. Base & Paving	\$105,511
5. Concrete Work	\$146,509
6. Signing & Striping	\$11,627
7. Guardrail	\$10,423
8. Traffic Control	\$50,000
9. Clearing & Grubbing	\$2,500
10. Permanent Erosion Control	\$100,000
11. Temporary Erosion Control	\$150,000
12. Misc	\$30,000
SUBTOTAL CONSTRUCTION COST	\$707,806
E. & C. (5%)	\$35,390
INFLATION (10% PER 1 YEARS)	\$70,781
TOTAL CONSTRUCTION COST	\$813,977
GRAND TOTAL PROJECT COST	\$1,056,692

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSSTP-0007-00(142)	1	3




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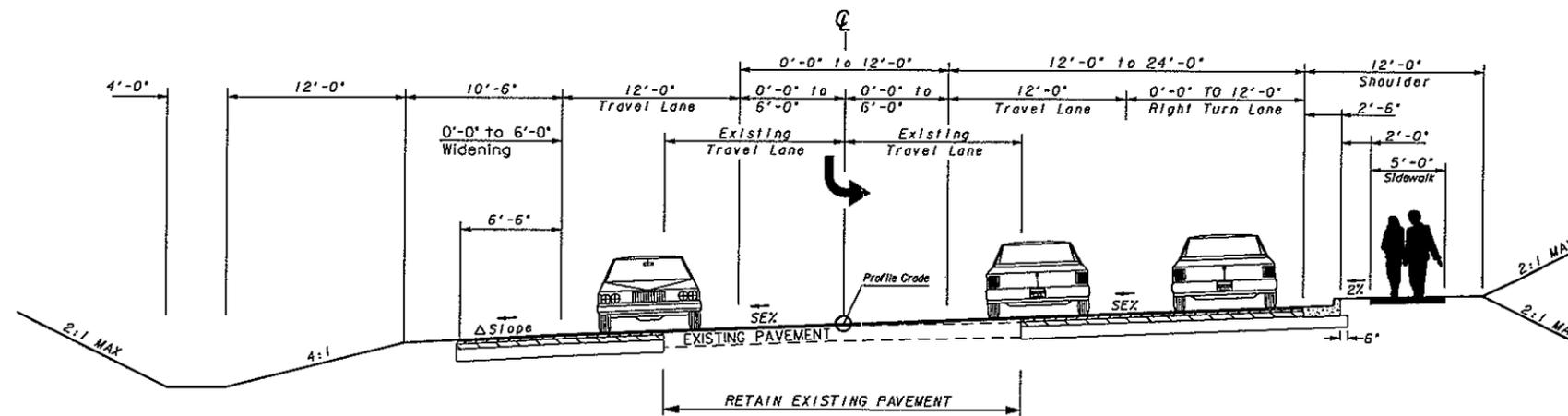


DATE	REVISIONS	DATE	REVISIONS

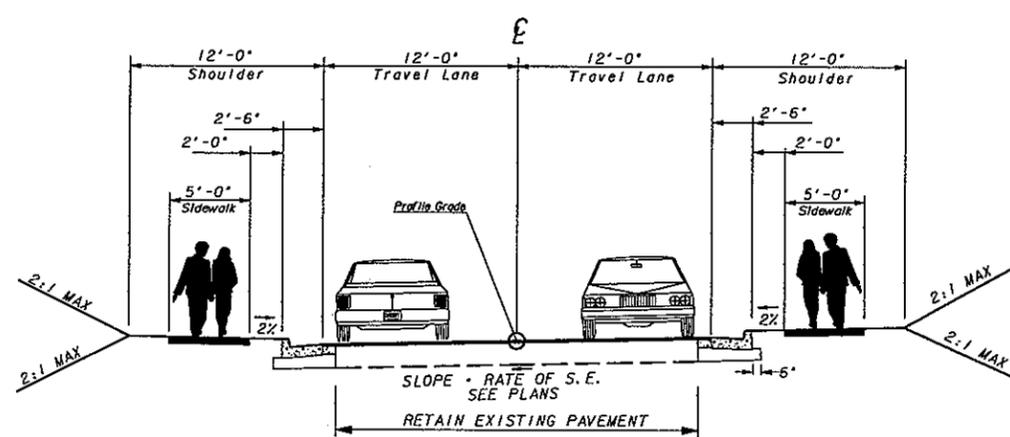
GEORGIA
 DEPARTMENT OF TRANSPORTATION
CONCEPT DRAWING
 PROJECT - CSSTP-0007-00(142)
 COUNTY - COBB
 DATE 10/7/05

\$FILES
 \$DATE\$

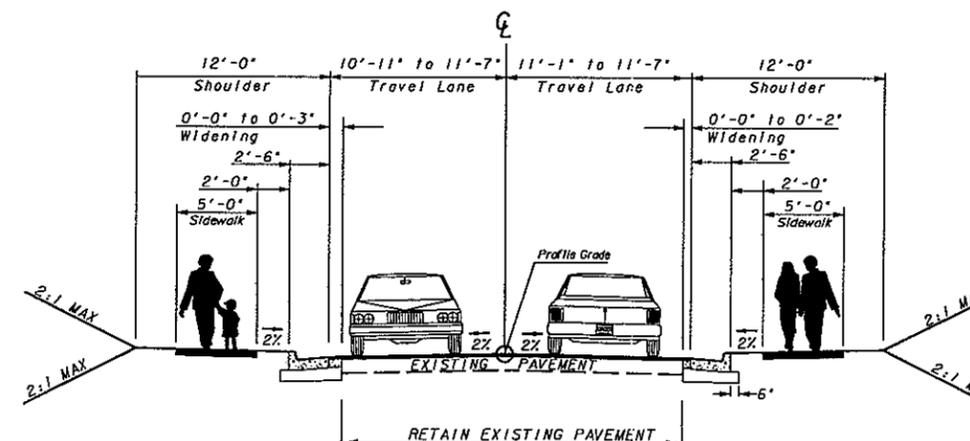
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSSTP-0007-00(142)	2	3



TYPICAL SECTION NO. 1
S.R. 92



TYPICAL SECTION NO. 2
SR 92



TYPICAL SECTION NO. 3
TANGENT SECTION
ADAMS CIRCLE &
COLLINS CIRCLE

10/4/2005
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SMITH AND
PARTNERS

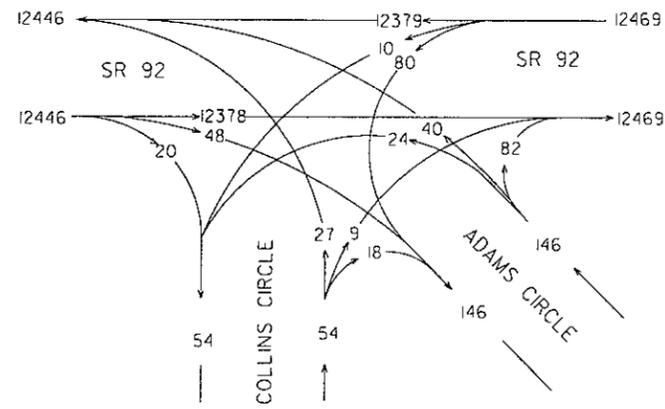
DATE	REVISIONS	DATE	REVISIONS

GEORGIA
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
PROJECT - CSSTP-0007-00(142)
COUNTY - COBB
DATE 10/7/05

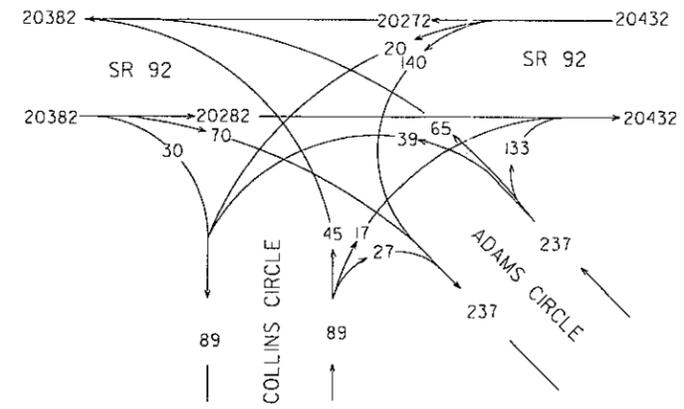
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10/4/2005

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSSTP-0007-00(142)	3	3

2006 AADT



2026 AADT



CSSTP - 0007-00(142)
P. 1. * 0007142
COBB COUNTY
SR 92 @ COLLINS CIRCLE
T - 8%

TRAFFIC DIAGRAM

DATE	REVISIONS	DATE	REVISIONS



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