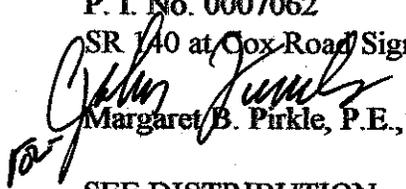


DOT. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0007-00(062) Fulton County **OFFICE** Preconstruction
P. I. No. 0007062
SR 140 at Cox Road Signalization **DATE** December 16, 2004

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

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keeper
Ken Thompson
Jamie Simpson
Michael Henry
Phillip Allen
Joe Palladi (file copy)
Paul Liles
Buddy Gratton
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

District 7

PROJECT CONCEPT REPORT

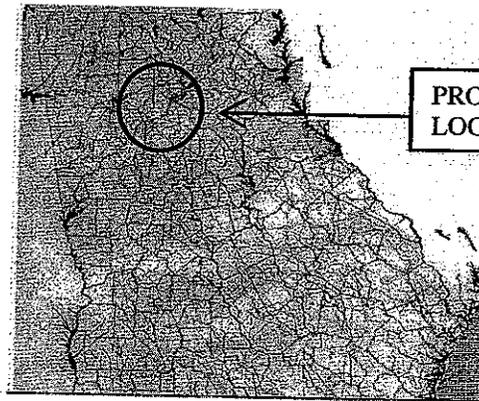
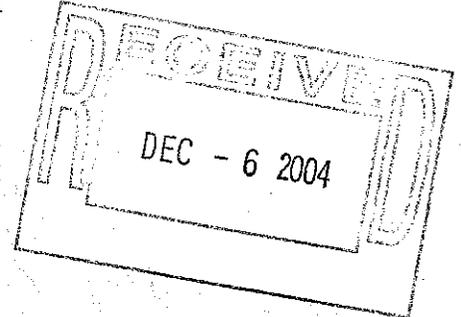
Project Number: STP-0007-00(062)

County: Fulton

P. I. Number: 0007062

Federal Route Number: N/A

State Route Number: 140



PROJECT
LOCATION

Date of Report: October 26, 2004

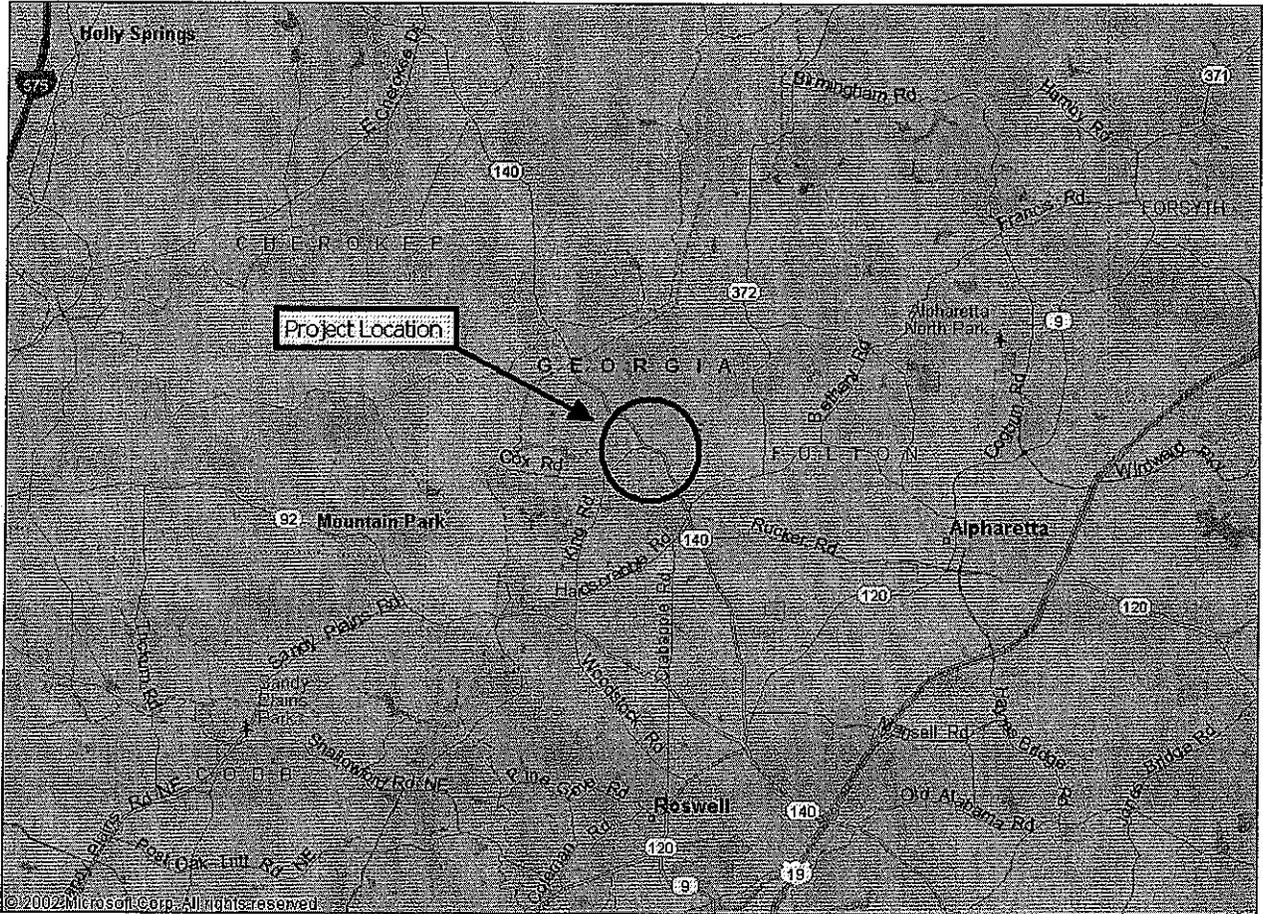
RECOMMENDED: 12-02-04 Phillip M. Allen
DATE SAFETY TRAFFIC SAFETY AND DESIGN ENGINEER

RECOMMENDED: 11/16/04 Buddy Anderson
DATE DISTRICT ENGINEER

RECOMMENDED: 12/8/04 Paul W. Smith
DATE CHIEF ENGINEER

APPROVED: 12-8-04 Harold L. Linnick
DATE COMMISSIONER

Project Location Sketch



PROJECT CONCEPT REPORT

P.I. NO.: 0007062

Project No.: STP-0007-00(062)

Route No.: SR 140 (Arnold Mill Road)

Location: This project is located in the City of Roswell, Fulton County. This Project is located in Land District 2, Land Lot 1092, in Georgia Military District 1. The Project location is approximately 2.6 miles North of SR 120 and approximately 1.6 miles West of SR 372.

Description: The intersection of SR 140 and Cox Road is a slightly skewed T-configuration. The intersection is signalized providing a north bound left turn phase onto Cox Road without the presence of a left turn lane. Project STP-0007-7062 proposes to widen SR 140 (Arnold Mill Road) a total of 12 feet on both approaches to Cox Road to accommodate a left turn lane for the Northbound Approach. SR 140 will be widened on the East side of the corridor to accomplish this. The project satisfies the need and purpose by providing increased operational efficiency through a dedicated left turn lane, improving turning radii, and increasing storage for the right turn movement from Cox Road onto SR 140. Minor drainage improvements will also be included in this project. The project will extend approximately 500 feet on each side of the Cox Road intersection. The project limits are from MP 2.050 to MP 2.240 for a project length of 0.189 miles (1000 feet).

Traffic – Current ADT: (2004) 20,688 Design Year: (2024) 37,364

Existing Typical: Two 12' lanes (one through lane in each direction) with 5' Grass Shoulders.

Existing Right of Way: 50 feet

Existing Traffic Control: SR 140 and Cox Road is a signalized T-intersection. The left turn movement from SR 140 northbound onto Cox Road has a protected phase, but no dedicated lane.

Existing Major Structures: N/A

Statement of Need & Purpose: The purpose of this proposed project is to provide operational improvements to the intersection of SR 140 (Arnold Mill Road) and Cox Road. This intersection becomes congested during the peak hours. Updated signal timing along with improved geometric configuration for vehicle maneuvers can reduce delay. Currently there is one northbound lane on SR 140 serving the through and left turning movements. There is a small stretch of widened pavement in this area that is not striped, tapered, etc. Through vehicles may be tempted to unsafely use this area to pass vehicles waiting to make a left turn onto Cox Road. In addition, the protected left turn phase onto Cox Road is blocked if the first vehicle in the queue is not turning left.

Vehicle back-up occurring on Cox Road can be improved by modifying a stretch of pavement currently serving driveways along the road. Removing obstructions and repaving this area will provide a better functioning right turn bay for vehicles turning onto SR 140. Reconstructing the

Northwest return with an increased radius will allow more efficient turns with reduced deceleration. Tire tracks in the shoulder area of this return show the need for a larger radius.

Bicycle & Pedestrian Considerations: There are no designated bike lanes or pedestrian facilities in this area of SR 140.

Length: 0.189 miles (1000 feet)

Termini: (SR 140) From M.P.: 2.050 To M.P.: 2.240

PDP Class: Minor

Functional Class: Urban Minor Arterial

Minimum Radius: 835'

Max Grades: +/- 6%

Design Speed: 50 mph

Proposed Typical Section: Three 12' lanes (one through lane in each direction, and one left turn lane / striped median) and 5' Grass Shoulders.

Proposed Major Structures: N/A

Type Access: By Permit

Traffic Control During Construction: Contractor to provide traffic control during construction. No detours will be necessary.

Right-of-Way Requirements: Project will require purchase of a limited amount of Right-of-Way and easements for the construction of slopes.

Utilities: There are underground and aboveground utilities in the area of this project. Some utility relocation will be necessary.

Estimated Cost:

<u>Item</u>	<u>Total Amount</u>	
	<u>FEDERAL/STATE</u>	<u>LOCAL</u>
R/W-----	\$ 180,000	
Utilities -----	\$ 60,000	
Estimate LGPA Total-----	\$	0
Construction -----	\$ 216,509	
Traffic Signal -----	\$ 0	
Railroad Equipment -----	\$ 0	
E & C 10% -----	\$ 21,651	
Total Construction -----	\$ 438,160	

Permits Required: None

Level of Environmental Analysis: Categorical exclusion

Level of Public Involvement: None

Time Saving Procedures Appropriate: Yes(X) No ()

Design Variances Required: None

Alternates Considered: Other widening configurations were considered for improving this intersection; However the presence of a school, a cemetery, and a Historic Church make widening on the East side of SR 140 the only plausible solution.

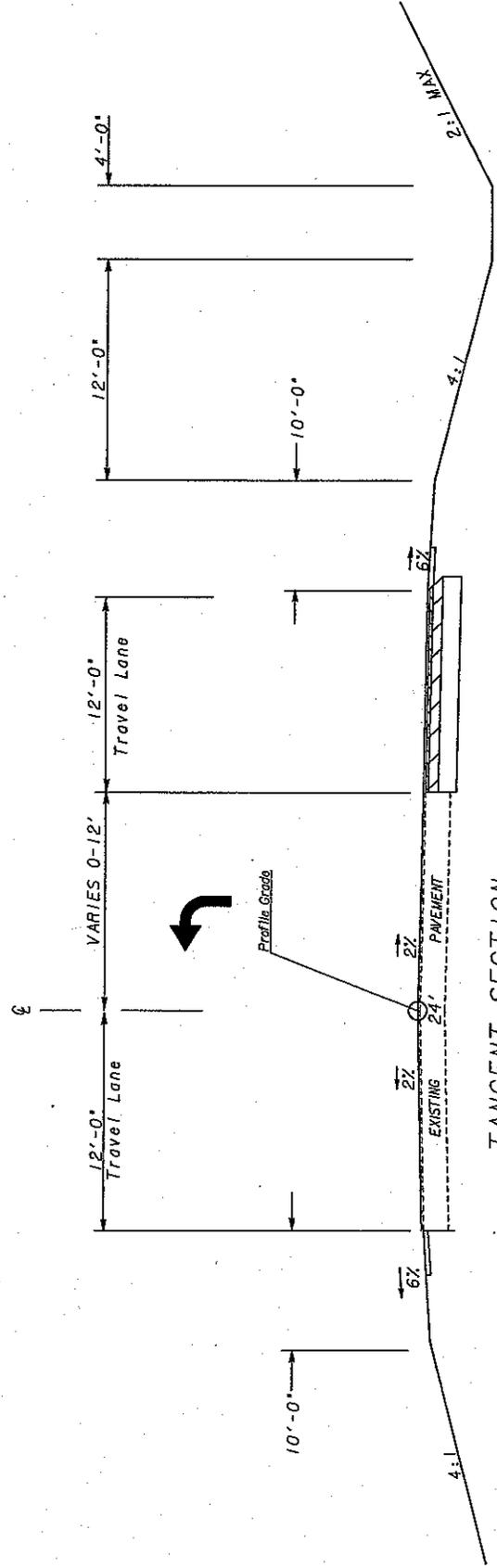
Comments:

Prepared By: Sam Woods

STATE	PROJECT NUMBER	SHEET TOTAL
GA.		NO. SHEETS

TYPICAL SECTION

S. R. 140



GEORGIA
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLAN

DATE	REVISIONS	DATE	REVISIONS

Cost Estimate

Intersection at SR 140 (Arnold Mill Rd) and Cox Rd					
<u>Pay Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total Cost</u>
150-1000	Traffic Control	1	LS	\$20,000.00	\$50,000.00
210-0100	Grading Complete	1	LS	\$50,000.00	100,000.00
310-1101	GAB crs, incl matl	450	TN	\$16.53	\$7,438.50
402-3141	12.5 mm superpave	525	TN	\$40.64	\$21,336.00
402-3143	25.0 mm superpave	175	TN	\$43.67	\$7,642.25
402-3192	19.0 mm superpave	130	TN	\$48.48	\$6,302.40
413-1000	Tack coat bitum	300	GL	\$1.12	\$336.00
432-0206	Milling	5575	SY	\$1.41	\$7,860.75
653-0120	Thermoplastic pvmt arrow TP 2	8	EA	\$62.69	\$501.52
653-1501	Thermoplastic solid 5" white	3300	LF	\$0.34	\$1,122.00
653-1502	Thermoplastic solid 5" yellow	4550	LF	\$0.43	\$1,956.50
653-1704	Thermoplastic solid 24" white	80	LF	\$4.00	\$320.00
653-3501	Thermoplastic skip 5" white	600	GLF	\$0.24	\$144.00
653-6006	Thermoplastic Traffic Striping, Yellow	500	SY	\$3.10	\$1,550.00
N/A	Miscellaneous	1	LS	\$10,000.00	\$10,000.00
Subtotal					\$216,509.92
Inflation, E&C (10%)					\$21,650.99
Construction Total					\$238,160.91
N/A	Right-of-Way	1	LS	\$180,000.00	\$180,000.00
N/A	Utilities	1	LS	\$60,000.00	\$20,000.00
Grand Total					\$438,160.91

Accident Summary

Year	Total Accidents	Angle	Rear End	Injuries	Fatalities
2000	4	1	3	0	0
2001	11	1	6	8	0
2002	6	1	3	2	0
2003	4	0	4	0	0
Statewide Average (2002)	6.30				

NOTICE OF LOCATION AND DESIGN APPROVAL

Project Number STP-0007-00(062)

Fulton County

P. I. # 0007062

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 DECEMBER 16, 2004

This project is located in the City of Roswell, Fulton County. This Project is located in Land District 2, Land Lot 1092, in Georgia Military District 1. The Project location is approximately 2.6 miles North of SR 120 and approximately 1.6 miles West of SR 372.

This project proposes to widen a section of SR 140 (Arnold Mill Road) a total of 12 feet in the area of Cox Road to accommodate a dedicated left turn lane for vehicles heading north on Arnold Mill Road turning left onto Cox Road. The right turn lane from Cox Road to SR 140 will be lengthened for improved storage and traffic flow. Minor drainage improvements are also included in this project.

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
jeff.woodward@dot.state.ga.us
Georgia Department of Transportation – Area 2
862 Barnes Mill Road
Marietta, GA 30062
(770) 528-3238

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:

Michael A. Lobdell, P.E.
michael.lobdell@dot.state.ga.us
Georgia Department of Transportation - District 7
5025 New Peachtree Road
Chamblee, GA 30341
770-986-1050

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.