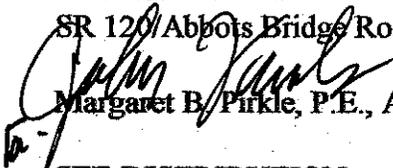


D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-0007-00(061) Fulton County **OFFICE** Preconstruction  
P. I. No. 0007061  
SR 120/Abbots Bridge Road Widening **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(061)

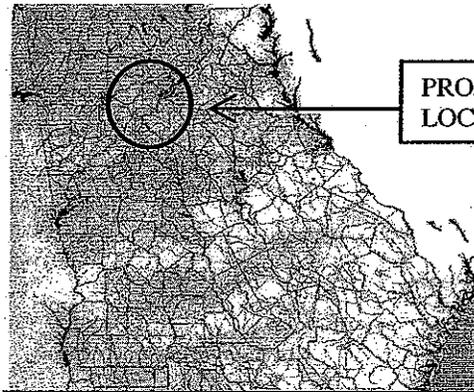
County: Fulton

P. I. Number: 0007061

Federal Route Number: N/A

State Route Number: 120

DEC - 6 2004



Date of Report: October 26, 2004

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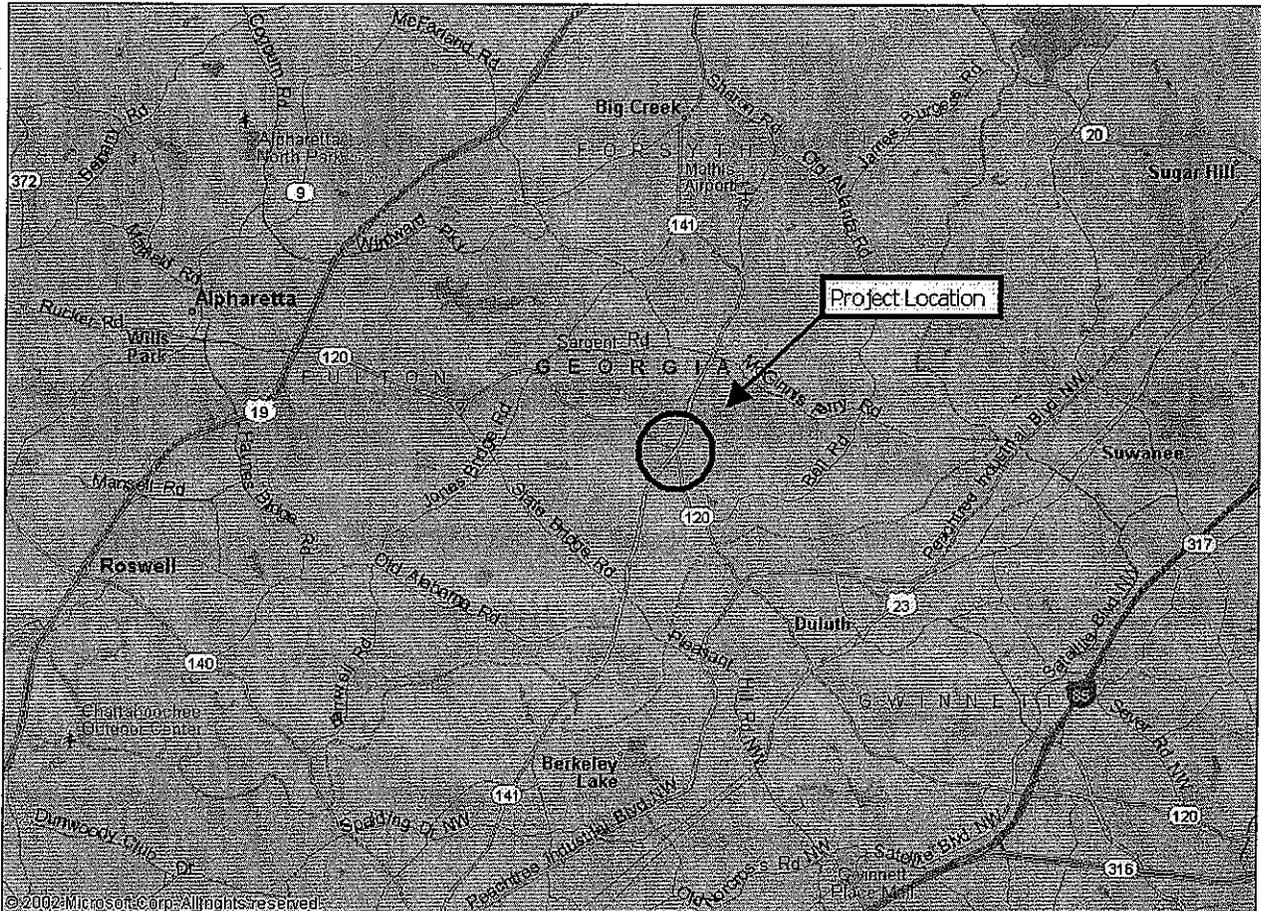
RECOMMENDED: 12-2-04 Phillip M. Allen  
DATE SAFETY TRAFFIC SAFETY AND DESIGN ENGINEER

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

RECOMMENDED: 12/2/04 Ken W. Walker  
DATE CHIEF ENGINEER

APPROVED: 12-8-04 David Zimmerman  
DATE COMMISSIONER

**Project Location Sketch**



## **PROJECT CONCEPT REPORT**

**P.I. NO.:** 0007061

**Project No.:** STP-0007-00(061)

**Route No.:** SR 120 (Abbots Bridge Road)

**Location:** This project is located entirely in the City of Duluth and in Fulton County. This Project is located in Land District 1, Land Lot 359, in Georgia Military District 1. The Project location is approximately 8.3 miles North of SR 403 (I-85) and approximately 5.8 miles East of SR 400.

**Description:** Project STP-0007-7061 proposes to widen SR 120 (Abbots Bridge Road) a total of 12 feet on both approaches to SR 141 (Medlock Bridge Road) to accommodate additional left turn lanes. The project will extend approximately 500 feet on each side of the SR 141 (Medlock Bridge Road) intersection. The project limits are from MP 15.635 to MP 15.825 for a project length of 0.189 miles (1000 feet). The project satisfies the need and purpose by providing increased operational efficiency through additional turn lanes, improving signal phasing, and upgrading pedestrian facilities.

**Traffic – Current ADT:** (2004) 19,075 Design Year: (2024) 34,452

**Existing Typical:** Four 12' lanes (one through lane in each direction, one left turn lane, and one right turn lane), Curb & Gutter, 5' Grass Shoulders, Sidewalk in some locations.

**Existing Right of Way:** 80 feet

**Existing Traffic Control:** SR 120 and SR 141 is a signalized intersection with pedestrian heads and protected left turn movements on all approaches

**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 120 (Abbots Bridge Road) and SR 141 (Medlock Bridge Road). Both roads are urban minor arterials, but SR 141 carries almost three times the volume that SR 120 carries. Operational deficiencies occur particularly in the AM peak hour when the majority of movements are turns from SR 120 onto SR 141. Currently on both SR 120 approaches there is one through lane, one left turn lane, and one right turn lane. Constructing an additional left turn lane on these approaches will promote a better flow of traffic along both roads at this intersection (Level of Service) and reduce idle time. The additional left turn lane will also prevent turning vehicles from blocking the through lane. There are two existing receiving lanes on SR 141 for the dual left turns.

**Bicycle & Pedestrian Considerations:** There are no designated bike lanes in this area of SR 120. Upgrades to ADA criteria will be made to all necessary curb ramps and sidewalk.

**Length:** 0.189 miles (1000 feet)

Project Concept Report  
STP-0007-00(061)  
PI 0007061

**Termini:** (SR 120) From M.P.: 15.635 To M.P.: 15.825

**PDP Class:** Minor

**Functional Class:** Urban Minor Arterial

**Minimum Radius:** 660'

**Max Grades:** +/- 6%

**Design Speed:** 45 mph

**Proposed Typical Section:** Five 12' lanes (one through lane in each direction, two left turn lanes, and one right turn lane), Curb & Gutter, 5' Grass Shoulders, Sidewalk in some locations.

**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-----	\$ 100,000	
Utilities -----	\$ 20,000	
Estimate LGPA Total-----	\$	0
Construction -----	\$ 210,000	
Traffic Signal -----	\$ 3,500	
Railroad Equipment -----	\$ 0	
E & C 10% -----	\$ 21,000	
Total Construction -----	\$ 354,500	

**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:** Also considered for this project was providing dual left turns on both SR 141 (Medlock Bridge Road) approaches in addition to the dual lefts on SR 120. This alternate was rejected due to conflicts with transmission line poles running along SR 141. Another alternate considered was lengthening the left turn bays on SR 141. In order to lengthen these bays, storage would be taken away from an opposing direction's left turn bay.

**Comments:**

**Prepared By:** Sam Woods

## Cost Estimate

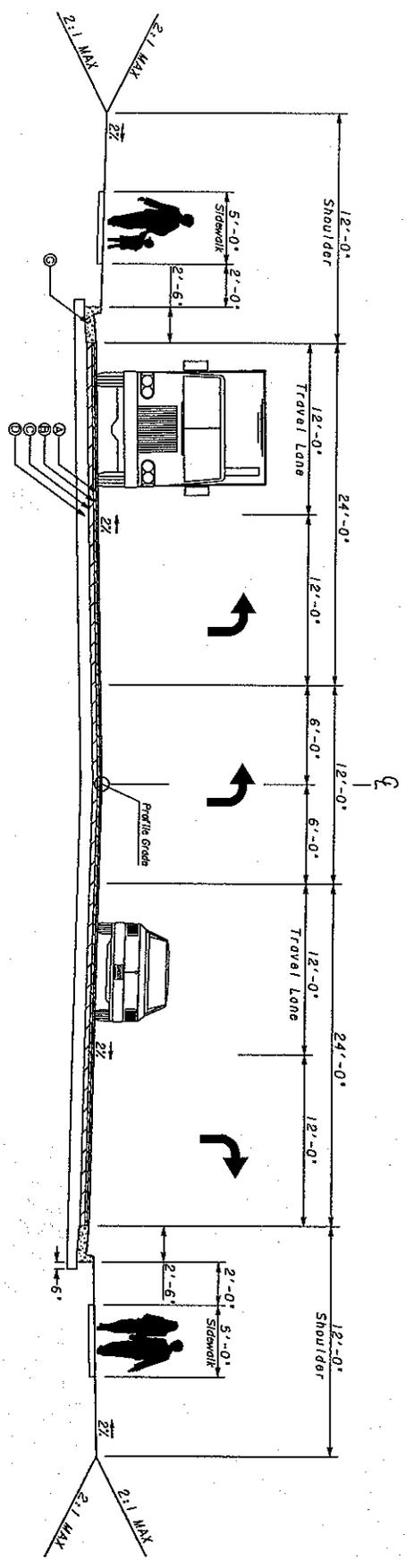
<b>Intersection of SR 141 (Medlock Bridge Rd) and SR 120 (Abbots Bridge Rd)</b>					
<b>Pay Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Cost</b>
150-1000	Traffic Control	1	LS	\$20,000.00	\$20,000.00
210-0100	Grading Complete *	1	LS	\$50,000.00	\$50,000.00
310-1101	GAB crs, incl matl	583	TN	\$16.53	\$9,636.99
402-3141	12.5 mm superpave	725	TN	\$40.64	\$29,464.00
402-3143	25.0 mm superpave	225	TN	\$43.67	\$9,825.75
402-3192	19.0 mm superpave	168	TN	\$48.48	\$8,144.64
413-1000	Tack coat bitum	380	GL	\$1.12	\$425.60
432-0206	Milling	7765	SY	\$1.41	\$10,948.65
441-0104	4" concrete sidewalk	175	SY	\$35.31	\$6,179.25
441-6022	6" curb & gutter	1120	LF	\$33.34	\$37,340.80
441-0740	Concrete Median, 4"	0	SY	\$26.56	\$0.00
653-0120	Thermoplastic pvmt arrow TP 2	24	EA	\$62.69	\$1,504.56
653-0210	Thermoplastic pvmt word, TP 1	10	EA	\$107.75	\$1,077.50
653-1501	Thermoplastic solid 5" white	3400	LF	\$0.34	\$1,156.00
653-1502	Thermoplastic solid 5" yellow	2000	LF	\$0.43	\$860.00
653-1704	Thermoplastic solid 24" white	570	LF	\$4.00	\$2,280.00
653-1804	Thermoplastic solid 8" white	1900	LF	\$1.54	\$2,926.00
653-3501	Thermoplastic skip 5" white	1500	GLF	\$0.24	\$360.00
668-1100	Catch basin, TP 1	4	EA	\$1,773.85	\$7,095.40
N/A	Miscellaneous	1	LS	\$10,000.00	\$10,000.00
				Subtotal	\$209,225.14
				Inflation, E&C (10%)	\$20,922.51
				Construction Total	\$230,147.65
N/A	Traffic Signal	1	LS	\$3,500.00	\$3,500.00
N/A	Right-of-Way	1	LS	\$100,000.00	\$100,000.00
N/A	Utilities	1	LS	\$20,000.00	\$20,000.00
				<b>Grand Total</b>	<b>\$353,647.65</b>
	* Includes clearing and grubbing, grading, concrete sidewalk removal, curb and gutter removal, and catch basin removal				

## Accident Summary

Year	Total Accidents	Sideswipe	Angle	Rear End	Injuries	Fatalities
2000	65	7	15	38	14	0
2001	57	4	17	33	28	0
2002	64	9	17	36	20	0
2003	70	9	28	33	24	0
Statewide Average (2002)	27.81					

# TYPICAL SECTION

S. R. 120



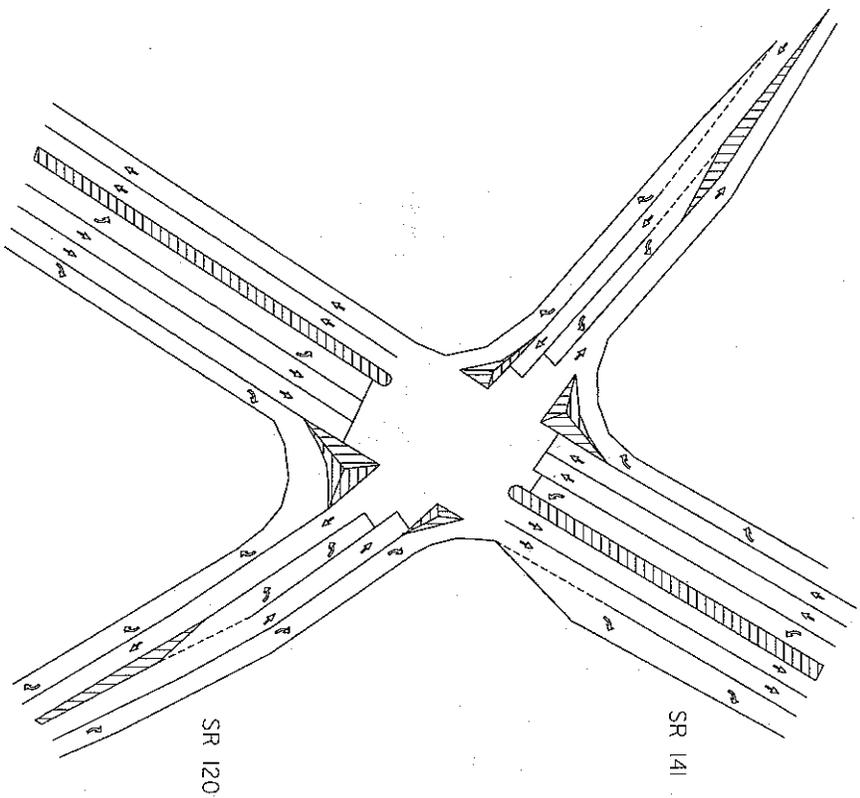
STATE	PROJECT NUMBER	SHEET TOTAL
G.A.	STP-0007-00(061)	NO. SHEETS

GEORGIA  
DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION PLAN

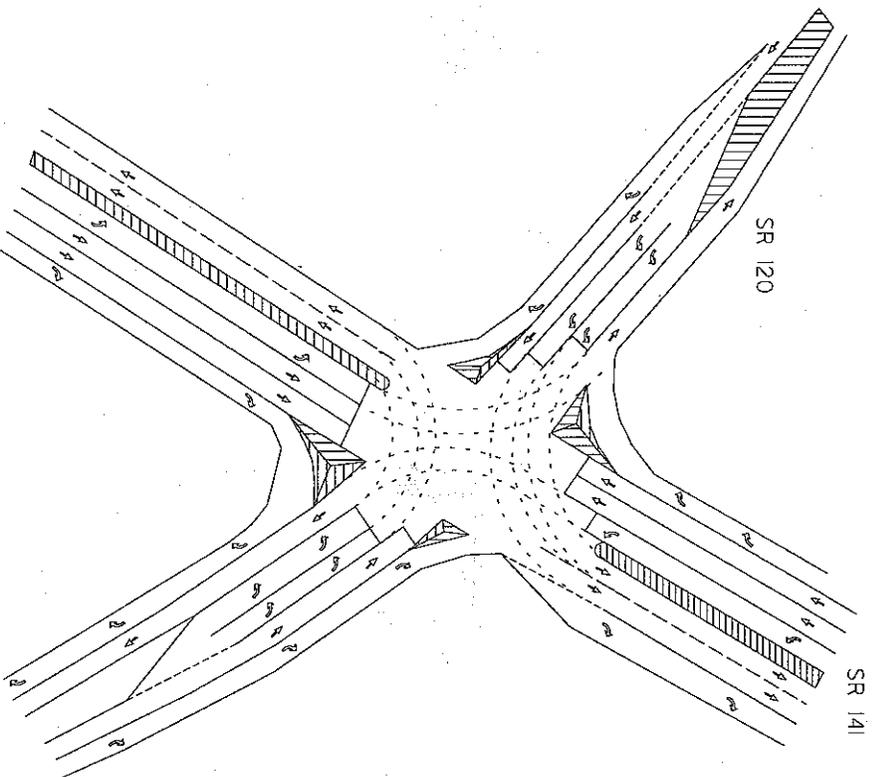
DATE	REVISIONS	DATE	REVISIONS

SR 120 @ SR 141

Existing Intersection



Proposed Intersection



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
NO.	DATE	
		CONSTRUCTION LAYOUT

# NOTICE OF LOCATION AND DESIGN APPROVAL

*Project Number STP-0007-00(061)*

*Fulton County*

*P. I. # 0007061*

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 Fulton County, Land District 1, Land Lot 359, in Georgia Military District 1. The Project location is approximately 8.3 miles North of SR 403 (I-85) and approximately 5.8 miles East of SR 400.

This project proposes to widen a section of SR 120 (Abbotts Bridge Road) in the area of the intersection with SR 141 (Medlock Bridge Road). The widening will accommodate an additional left turn lane for traffic turning onto SR 141 from both SR 120 approaches. Pedestrian enhancements and ADA upgrades 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.